

Prüfbericht-Nr.: Test report no.:	CN26IMUB 002	Auftrags-Nr.: Order no.:	326175361	Seite 1 von 42 Page 1 of 42
Kunden-Referenz-Nr.: Client reference no.:	/	Auftragsdatum: Order date:	2026-03-05	
Auftraggeber: Client:	Cricut, Inc. 10855 S.River Front Pkwy, Suite 300, South Jordan, Utah, 84095, USA			
Prüfgegenstand: Test item:	StickerPix Print+Cut			
Bezeichnung / Typ-Nr.: Identification / Type no.:	CSTP401			
Auftrags-Inhalt: Order content:	Test Report			
Prüfgrundlage: Test specification:	FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 5, Amendment 2, February 2021 RSS-247 Issue 4, July 24, 2025			
Wareneingangsdatum: Date of sample receipt:	2026-02-25	Refer to photo document.		
Prüfmuster-Nr.: Test sample no:	A004212888-001			
Prüfzeitraum: Testing period:	2026-03-11, 2026-03-16			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date:	Datum: Date:			
Stellung / Position:	Stellung / Position:			
Sonstiges / Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet			
* Legend:	P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested			
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Anmerkungen Remarks

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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 6dB & 99% BANDWIDTH

RESULT: Pass

5.1.3 OUTPUT POWER

RESULT: Pass

5.1.4 POWER SPECTRAL DENSITY

RESULT: Pass

5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS

RESULT: Pass

5.2.1 CONDUCTED EMISSION

RESULT: Pass

5.3.1 RADIATED BAND-EDGE

RESULT: Pass

5.3.2 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1. General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.

Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 930979.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 33038.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equip. no.	Equipment name	Model	Serial no.	Manufacturer	Due date
EMC-C-195	EMI test receiver	ESR3	102794	Rohde & Schwarz	2026-08-02
EMC-C-366	Thermohygrometer	608-H1	2485149174	testo	2026-07-11
EMC-S-028	EMI measurement software	EMC32-E+ (10.60.20)	100150	Rohde & Schwarz	N/A
EMC-C-190	Artificial mains network	ENV432	101514	Rohde & Schwarz	2026-09-02
EMC-C-317	Thermohygrometer	608-H1	2283796621	testo	2026-06-10
EMC-C-304	OSP	OSP-B157W8	100857	Rohde & Schwarz	2026-12-17
EMC-C-303	Vector signal generator	SMW200A	110702	Rohde & Schwarz	2026-11-27
EMC-C-302	Signal generator	SMB100B (6 GHz)	103832	Rohde & Schwarz	2026-11-27
EMC-C-196	Wireless connectivity tester	CMW270	102435	Rohde & Schwarz	2027-08-09
EMC-C-161	Spectrum analyser	FSV40	101258	Rohde & Schwarz	2026-07-11
EMC-S-036	RF measurement software	WMS32-WB (11.40.00)	101516	Rohde & Schwarz	N/A
EMC-C-175	Preamplifier	EMC051845SE	980612	EMCI Taiwan	2026-07-11
EMC-C-001	3 m semi-anechoic chamber	SAC3	FJ129002	Frankonia	2026-12-03
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	9120D-434	Schwarzbeck	2029-03-03
EMC-C-066	EMI test receiver	ESCI	100280	Rohde & Schwarz	2026-09-28
EMC-C-068	Broadband horn antenna	BBHA 9170	9170-305	Schwarzbeck	2028-06-18
EMC-C-121	Thermohygrometer	608-H1	1241320265	testo	2026-06-05
EMC-C-176	Preamplifier	EMC184045SE	980596	EMCI Taiwan	2026-07-11
EMC-S-032	EMI measurement software	EMC32-MEB (10.60.20)	100697	Rohde & Schwarz	N/A
EMC-C-155	BiLog antenna	CBL 6112D	40530	Teseq	2026-09-24

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Conducted Emission	150kHz - 30MHz	±2.33dB
Radiated Emission	9kHz - 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a StickerPix Print+Cut which support Bluetooth Classic, Bluetooth Low Energy and RFID proprietary function.

The aim of this report is to evaluate RF character of Bluetooth Low Energy of the EUT.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	StickerPix Print+Cut
Model No.:	CSTP401
Operation Voltage:	AC 120V, 60Hz powered by adapter
RF Technical:	1) Bluetooth Classic 2) Bluetooth Low Energy 3) RFID
Technical Specification of BLE	
Frequency Range:	2402~2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	-1.3 dBi

Table 4: Operation Channel List

RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]	RF Channel	Frequency [MHz]
00	2402	10	2422	20	2442	30	2462
01	2404	11	2424	21	2444	31	2464
02	2406	12	2426	22	2446	32	2466
03	2408	13	2428	23	2448	33	2468
04	2410	14	2430	24	2450	34	2470
05	2412	15	2432	25	2452	35	2472
06	2414	16	2434	26	2454	36	2474
07	2416	17	2436	27	2456	37	2476

08	2418	18	2438	28	2458	38	2478
09	2420	19	2440	29	2460	39	2480

3.3 Independent Operation Modes

Test frequencies are lowest channel: 2402 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz

The basic operation modes are:

- A. BLE transmitting mode
- B. Radio operating mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10-2020+COR. 1-2023+C63.10A-2024+ERRATA TO C63.10A-2024.

Test Software: Esp RF Test Tool_v2.7

Table 5: Power parameter value

Mode	Power Parameter Setting Value
BLE	100D

4.3 Special Accessories and Auxiliary Equipment

Table 6: Special Accessories

Accessories	Parameter
RF Cable between the antenna port and test system	Cable loss: 0.5dB

Note: The RF cable used in the test was provided by

☒ Client

☐ Test Lab

And the cable loss has been factored in the related test.

Table 7: Auxiliary Equipment

Equipment	Brand	Model Name
Laptop	Lenovo	21AJ-S57N0J
Adapter	BAOLIJIN	BLJ38W240160P-V

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT: **Pass**

According to the manufacturer declared, the EUT has one internal PCB antenna, the directional gain of antenna is -1.3 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 8: Antenna Requirement

FCC 15.203 – Antenna Requirement 1		
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device	
Results:	Antenna type:	PCB Antenna
Verdict:	Pass	

FCC 15.204 – Antenna Requirement 2		
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.	
Results:	Only one PCB antenna can be used	
Verdict:	Pass	

RSS-Gen 6.4 – External Control		
Requirement:	The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs	
Results:	The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.	
Verdict:	PASS	

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RSS-Gen 6.8 – Antenna Requirement

Requirement: When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

Results:

a) Antenna Type:	PCB Antenna
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	-1.3 dBi

Verdict: PASS

5.1.2 6dB & 99% Bandwidth**RESULT:****Pass**

Date of testing	:	2026-03-11
Ambient temperature	:	20.8°C
Relative humidity	:	42.3%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(a)(2) RSS-247 Issue 4, July 24, 2025, Clause 6.3.1(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 6.7
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+COR. 1-2023+C63.10A-2024+ERRATA TO C63.10A-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

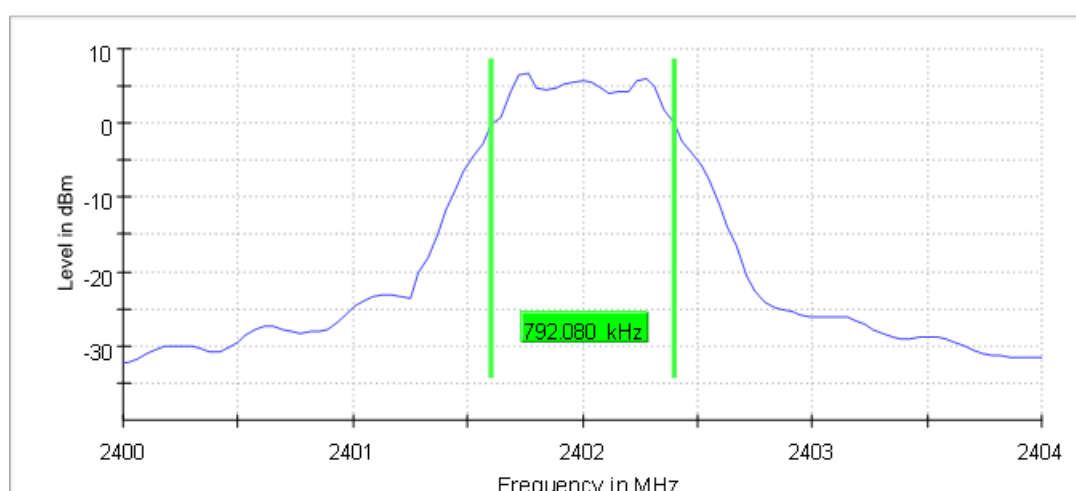
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6dB Bandwidth, 1Mbps, 2402MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.792080	0.500000	---	2401.603960	2402.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	6.7	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
Sweeptime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

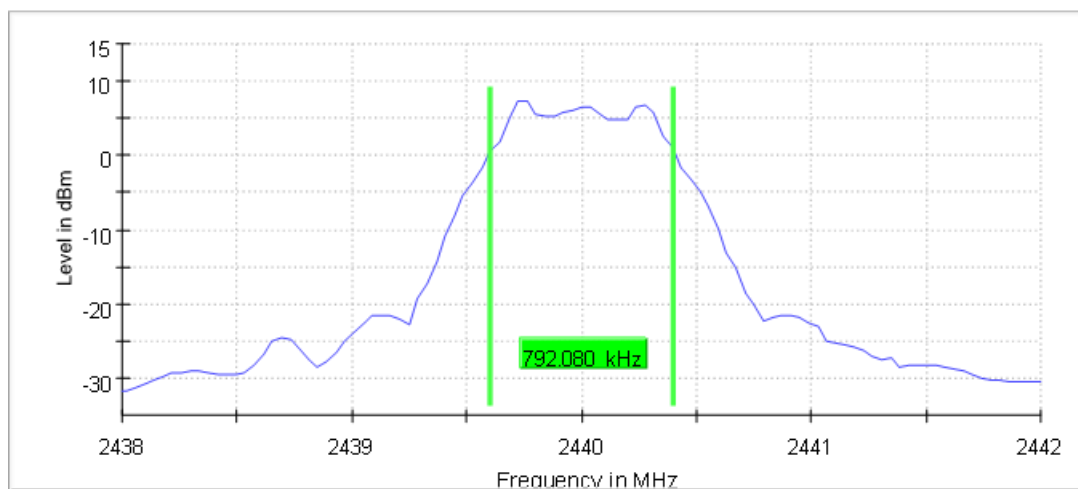
6dB Bandwidth, 1Mbps, 2440MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	0.792080	0.500000	---	2439.603960	2440.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	7.4	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.03 dB	0.50 dB

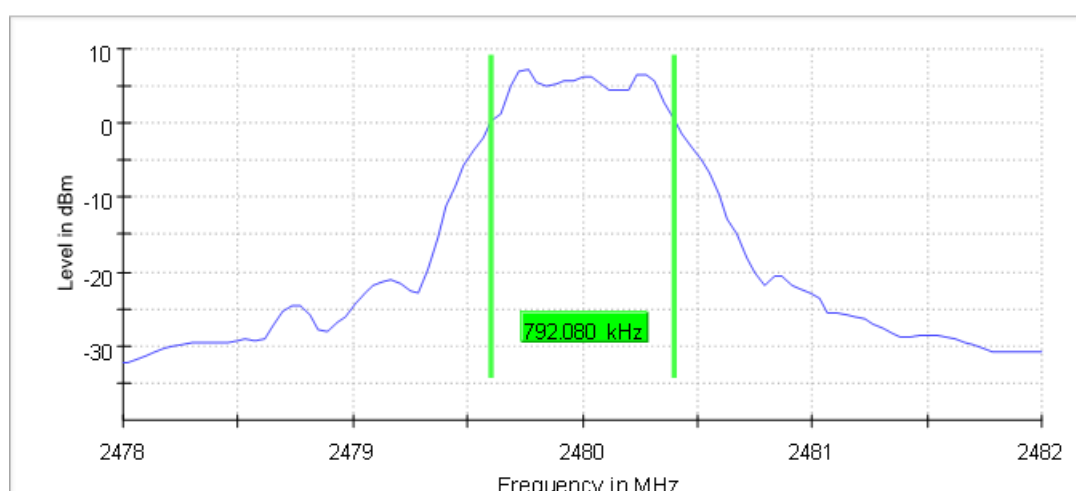
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6dB Bandwidth, 1Mbps, 2480MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.792080	0.500000	---	2479.603960	2480.396040

(continuation of the "6 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	7.1	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	101	~ 80
SweepTime	18.938 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
SweepType	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.09 dB	0.50 dB

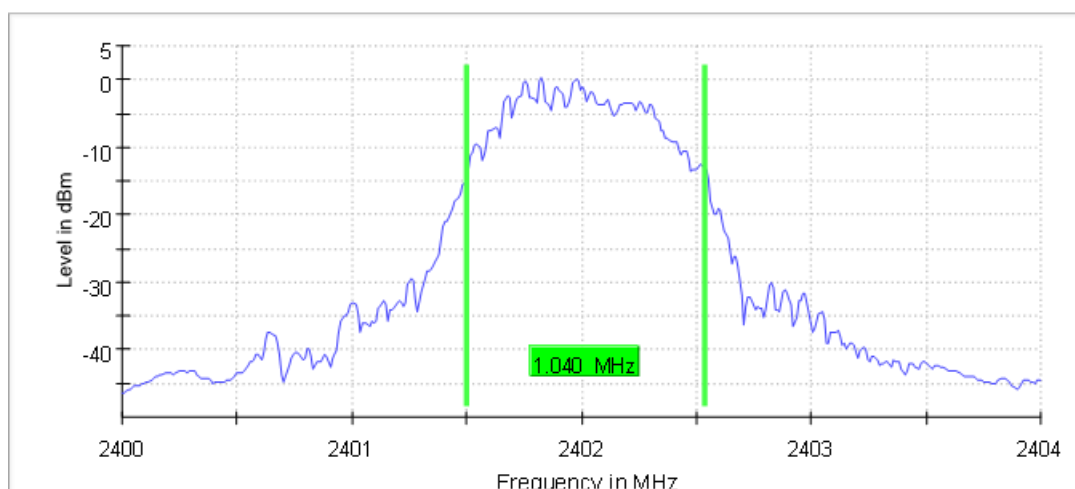
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99% Occupied Channel Bandwidth, 1Mbps, 2402MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.040000	---	---	2401.495000	2402.535000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.22 dB	0.30 dB

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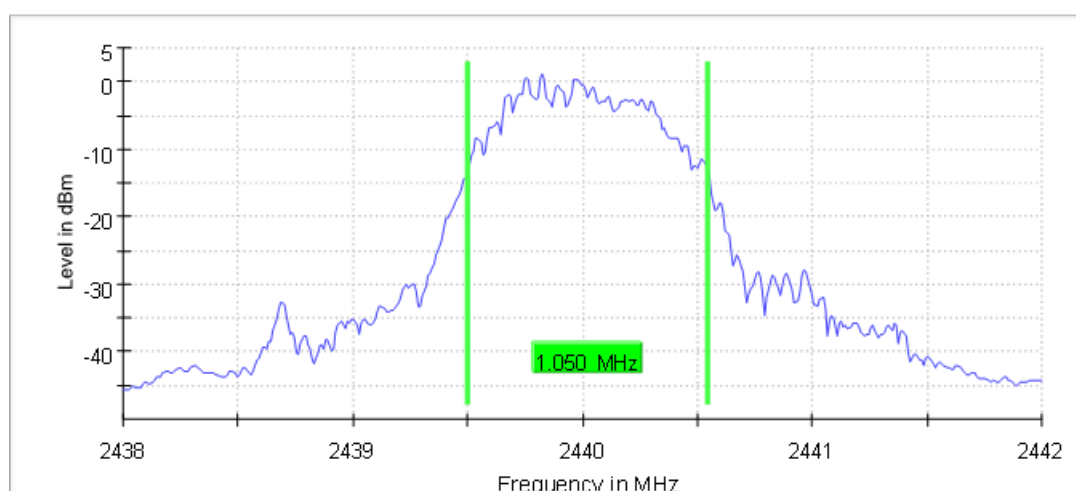
99% Occupied Channel Bandwidth, 1Mbps, 2440MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.050000	---	---	2439.495000	2440.545000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2440.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43800 GHz	2.43800 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	8 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.16 dB	0.30 dB

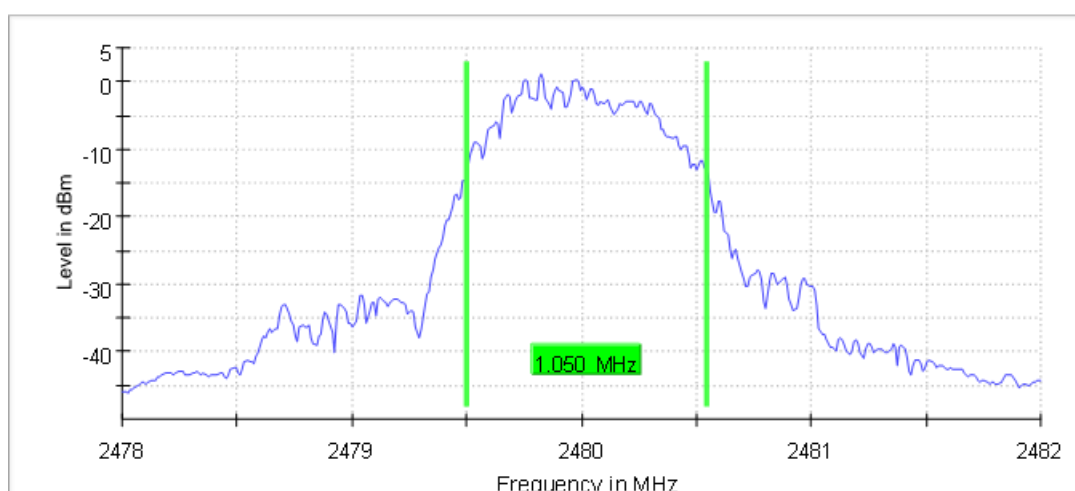
99% Occupied Channel Bandwidth, 1Mbps, 2480MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.050000	---	---	2479.495000	2480.545000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.24 dB	0.30 dB

5.1.3 Output Power

RESULT:**Pass**

Date of testing : 2026-03-11
Ambient temperature : 20.8°C
Relative humidity : 42.3%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(b)(3)
RSS-247 Issue 4, July 24, 2025, Clause 6.3.2
Test procedure : ANSI C63.10:2020
ANSI C63.10-2020+COR. 1-2023+C63.10A-
2024+ERRATA TO C63.10A-2024
Test voltage : AC 120V, 60Hz
Test modes applied : A

Table 9: Peak Output Power

Data Rate	Frequency [MHz]	Peak Conducted Output Power [dBm]	Limit [dBm]
1Mbps	2402	6.662	30
	2440	6.934	30
	2480	6.832	30

Note:

EIRP=Conducted Output Power + Antenna Gain (-1.3dBi), which is far below the 4 W (36dBm).

5.1.4 Power Spectral Density

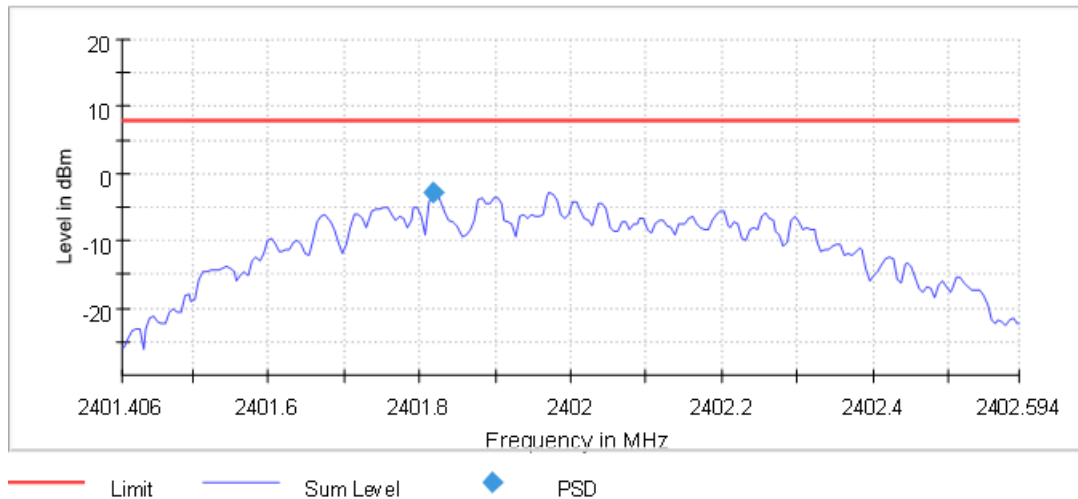
RESULT:**Pass**

Date of testing	:	2026-03-11
Ambient temperature	:	20.3°C
Relative humidity	:	42.3%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(e) RSS-247 Issue 4, July 24, 2025, Clause 6.3.1(b)
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+COR. 1-2023+C63.10A- 2024+ERRATA TO C63.10A-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

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Test Report No.
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Power Spectral Density, 1Mbps, 2402MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2402.000000	2401.817788	-2.722	8.0	PASS

Peak Power Spectral Density

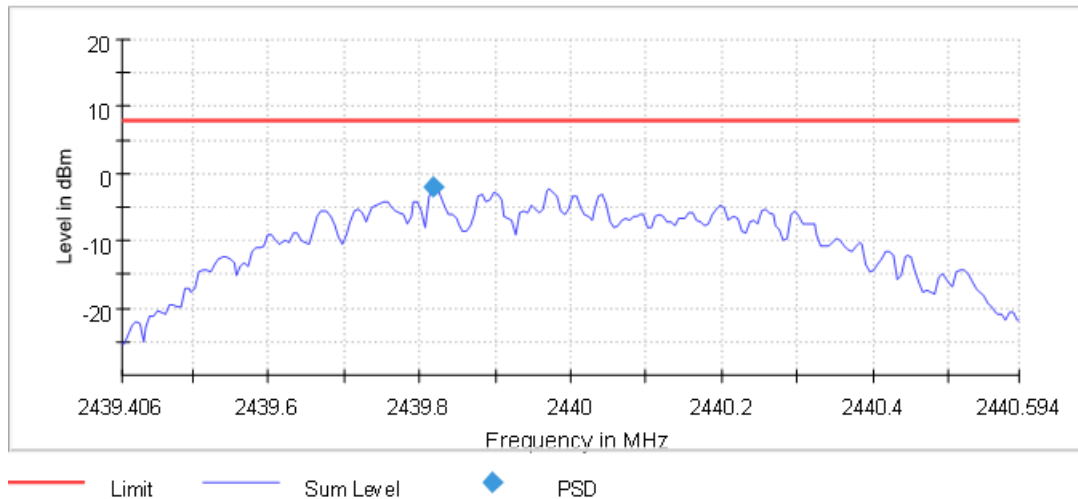

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40141 GHz	2.40141 GHz
Stop Frequency	2.40259 GHz	2.40259 GHz
Span	1.188 MHz	1.188 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	238	~ 238
Sweeptime	1.190 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	3 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.19 dB	0.50 dB

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Power Spectral Density, 1Mbps, 2440MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2440.000000	2439.817788	-1.866	8.0	PASS

Peak Power Spectral Density

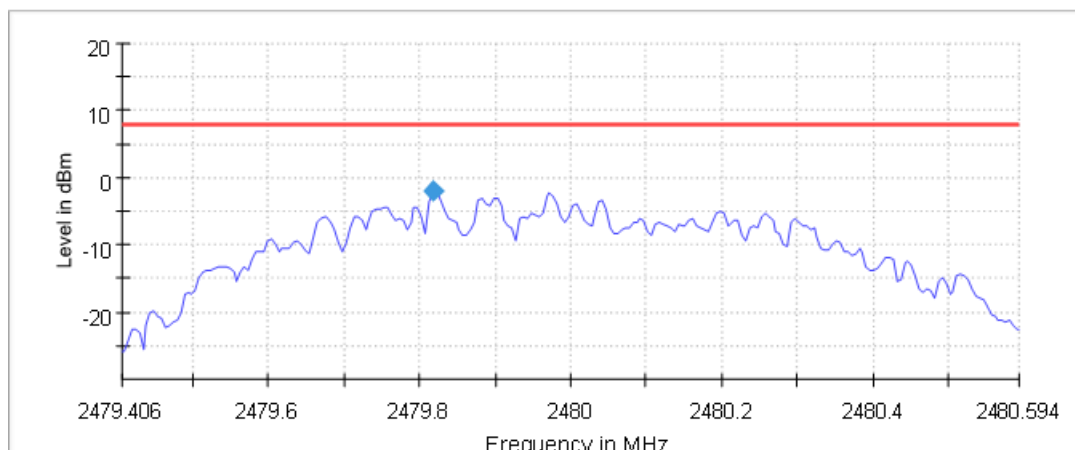

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43941 GHz	2.43941 GHz
Stop Frequency	2.44059 GHz	2.44059 GHz
Span	1.188 MHz	1.188 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	238	~ 238
Sweptime	1.190 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.27 dB	0.50 dB

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Power Spectral Density, 1Mbps, 2480MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2479.817788	-2.007	8.0	PASS

Peak Power Spectral Density



— Limit — Sum Level ◆ PSD

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47941 GHz	2.47941 GHz
Stop Frequency	2.48059 GHz	2.48059 GHz
Span	1.188 MHz	1.188 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	238	~ 238
Sweeptime	1.190 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	4 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.16 dB	0.50 dB

5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT:

Pass

Date of testing	:	2026-03-11
Ambient temperature	:	20.5°C
Relative humidity	:	42.1%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) RSS-247 Issue 4, July 24, 2025, Clause 6.6
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+COR. 1-2023+C63.10A- 2024+ERRATA TO C63.10A-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Figure 1: Reference level

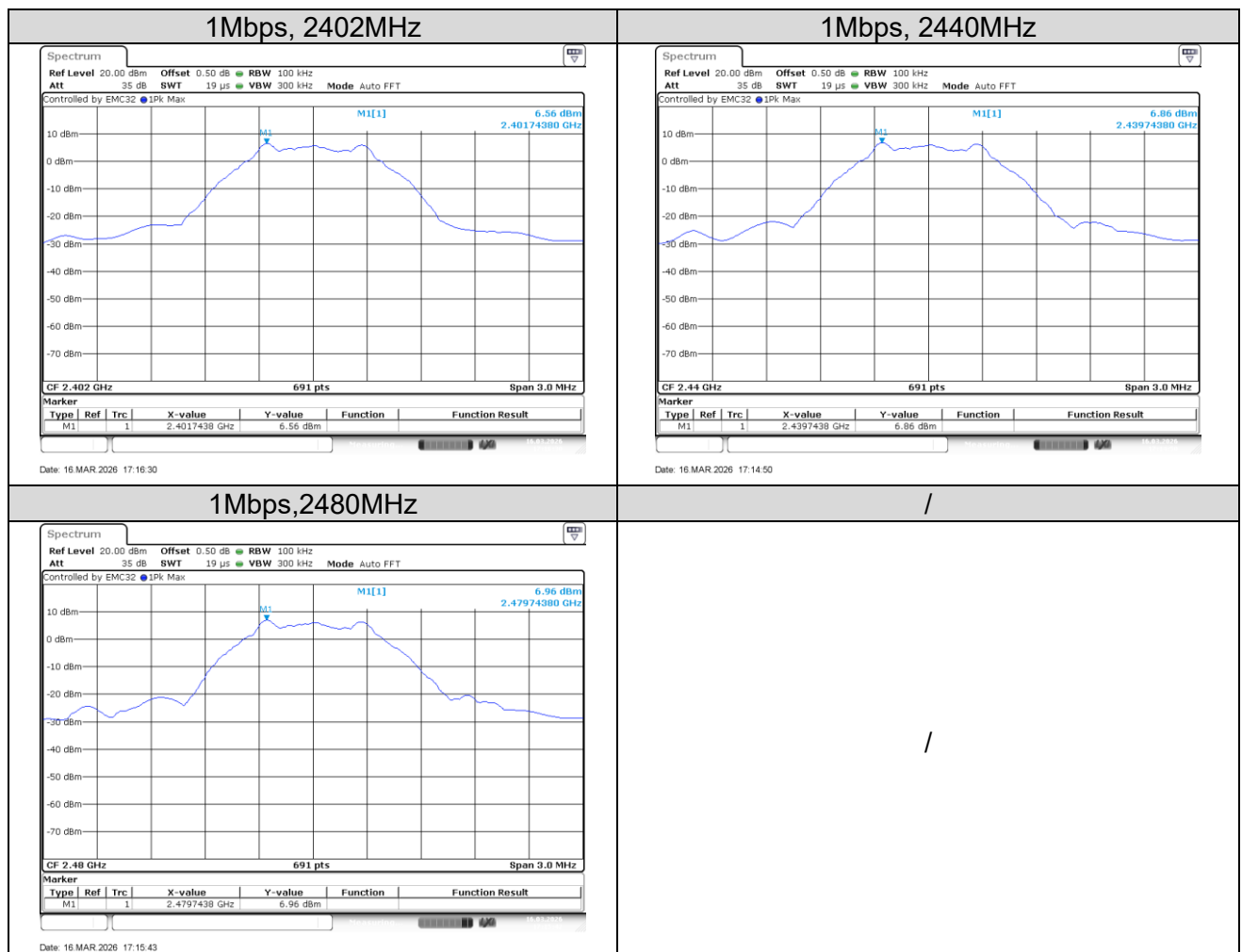
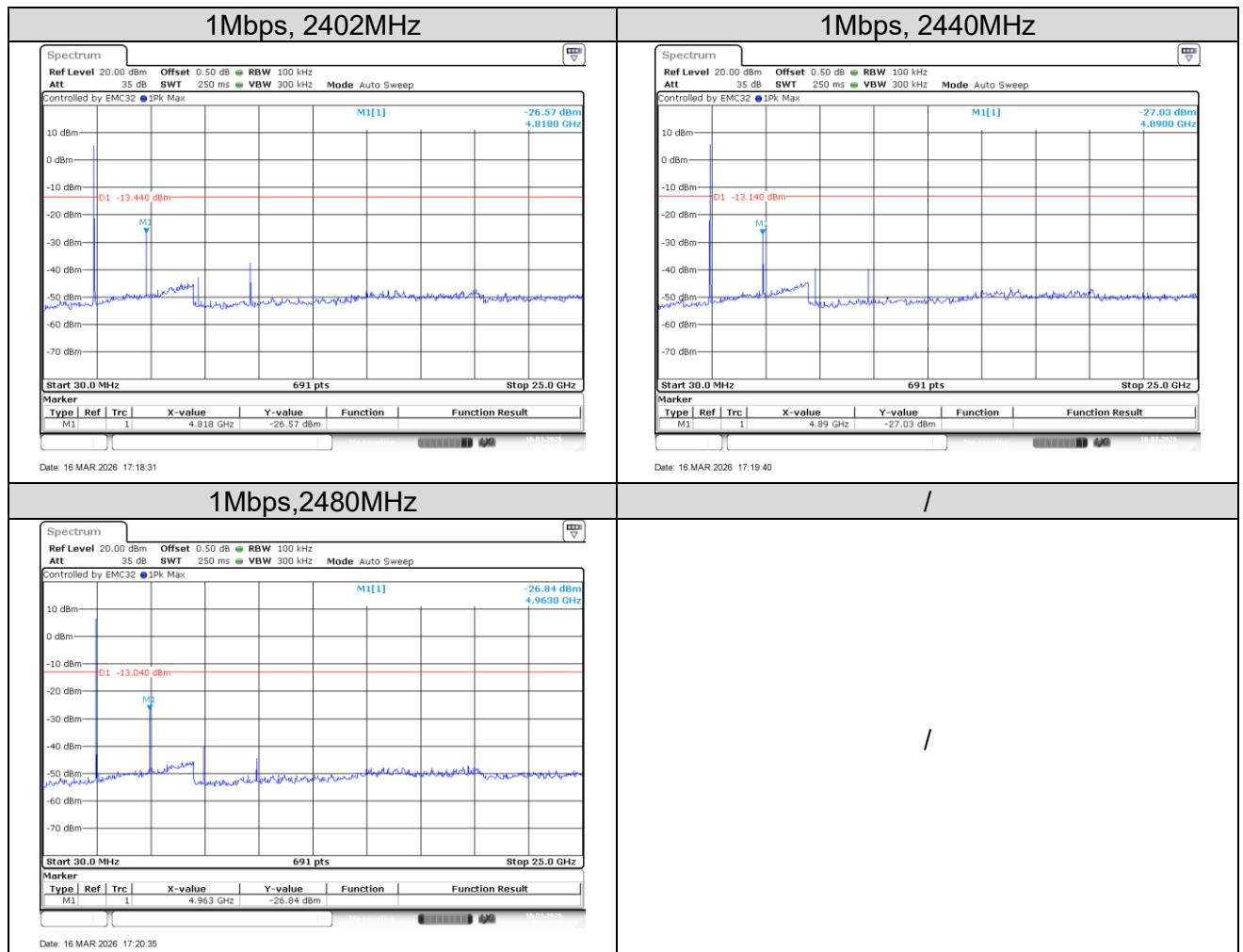
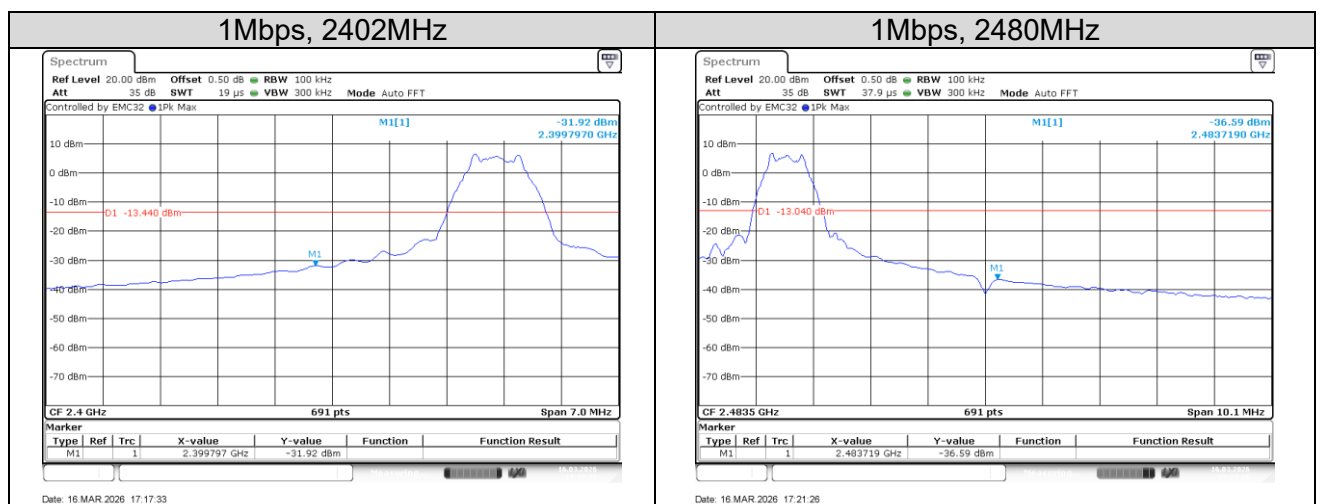


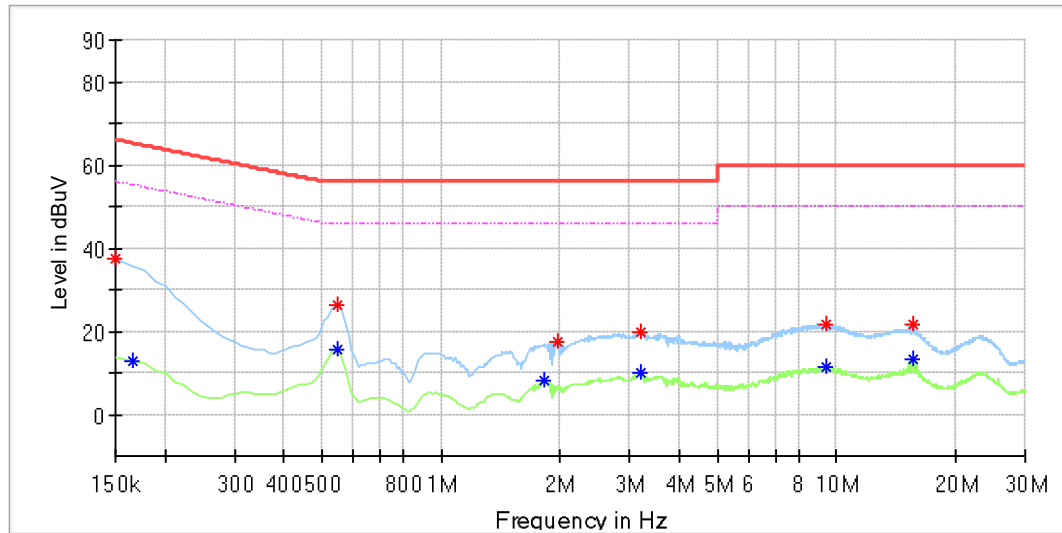
Figure 2: Conducted Spurious Emission

Figure 3: Conducted Band Edge


5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

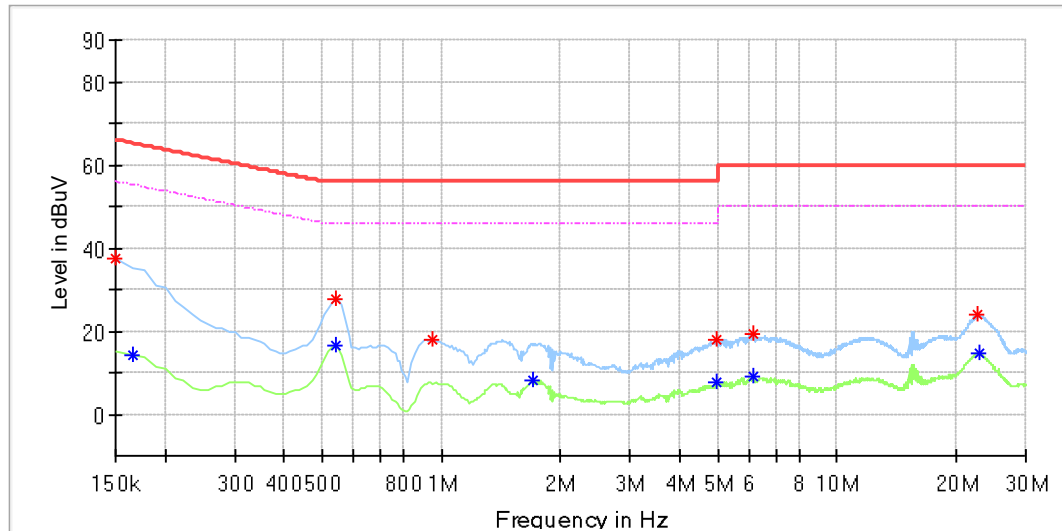
RESULT:**Pass**

Date of testing	: 2026-03-11
Ambient temperature	: 20.8°C
Relative humidity	: 42.3%
Atmospheric pressure	: 101kPa
Test requirement	: FCC Part 15.207 (a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.8
Test procedure	: ANSI C63.10:2020 ANSI C63.10-2020+COR. 1-2023+C63.10A-2024+ERRATA TO C63.10A-2024
Test voltage	: AC 120V, 60Hz
Test modes applied	: B

Figure 4: Conducted Emission, L


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.150000	37.59	---	66.00	28.41	L1
0.166875	---	12.92	55.12	42.20	L1
0.549375	26.50	---	56.00	29.50	L1
0.549375	---	15.42	46.00	30.58	L1
1.820625	---	7.99	46.00	38.01	L1
1.978125	17.22	---	56.00	38.78	L1
3.181875	---	10.17	46.00	35.83	L1
3.204375	19.69	---	56.00	36.31	L1
9.391875	21.44	---	60.00	38.56	L1
9.391875	---	11.25	50.00	38.75	L1
15.613125	21.59	---	60.00	38.41	L1
15.613125	---	13.42	50.00	36.58	L1

Figure 5: Conducted Emission, N


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.150000	37.39	---	66.00	28.61	N
0.166875	---	14.27	55.12	40.84	N
0.538125	27.61	---	56.00	28.39	N
0.538125	---	16.34	46.00	29.66	N
0.954375	17.87	---	56.00	38.13	N
1.708125	---	8.26	46.00	37.74	N
4.959375	17.85	---	56.00	38.15	N
4.981875	---	7.52	46.00	38.48	N
6.140625	19.10	---	60.00	40.90	N
6.163125	---	9.01	50.00	40.99	N
22.700625	23.78	---	60.00	36.22	N
22.925625	---	14.74	50.00	35.26	N

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

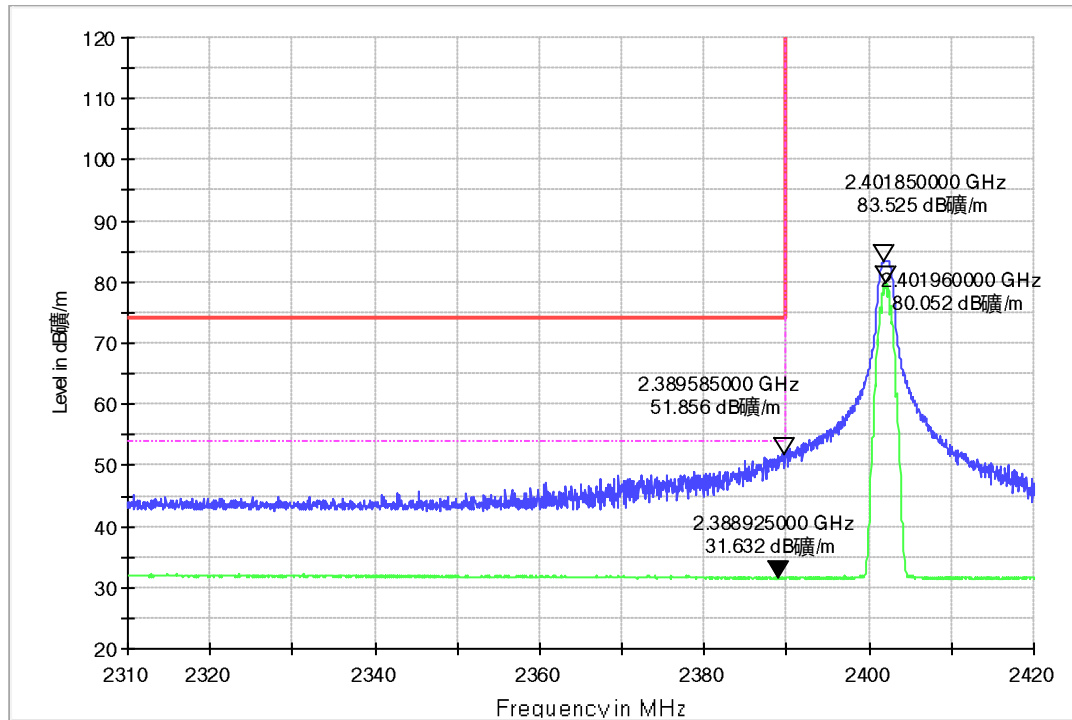
RESULT:**Pass**

Date of testing	:	2026-03-16
Ambient temperature	:	21.6°C
Relative humidity	:	40.4%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 4, July 24, 2025, Clause 6.6
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+COR. 1-2023+C63.10A- 2024+ERRATA TO C63.10A-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Note: All the test modes were applied, only the worst case was shown on the report.

Figure 6: Radiated Band-Edge, 1Mbps, 2402MHz, H

XXY-2310~2410 BE 1-18GHz HL050 FSV40 Pre-10-YUNFANG


Figure 7: Radiated Band-Edge, 1Mbps, 2402MHz, V

XXY-2310~2410 BE 1-18GHz HL050 FSV40 Pre-10-YUNFANG

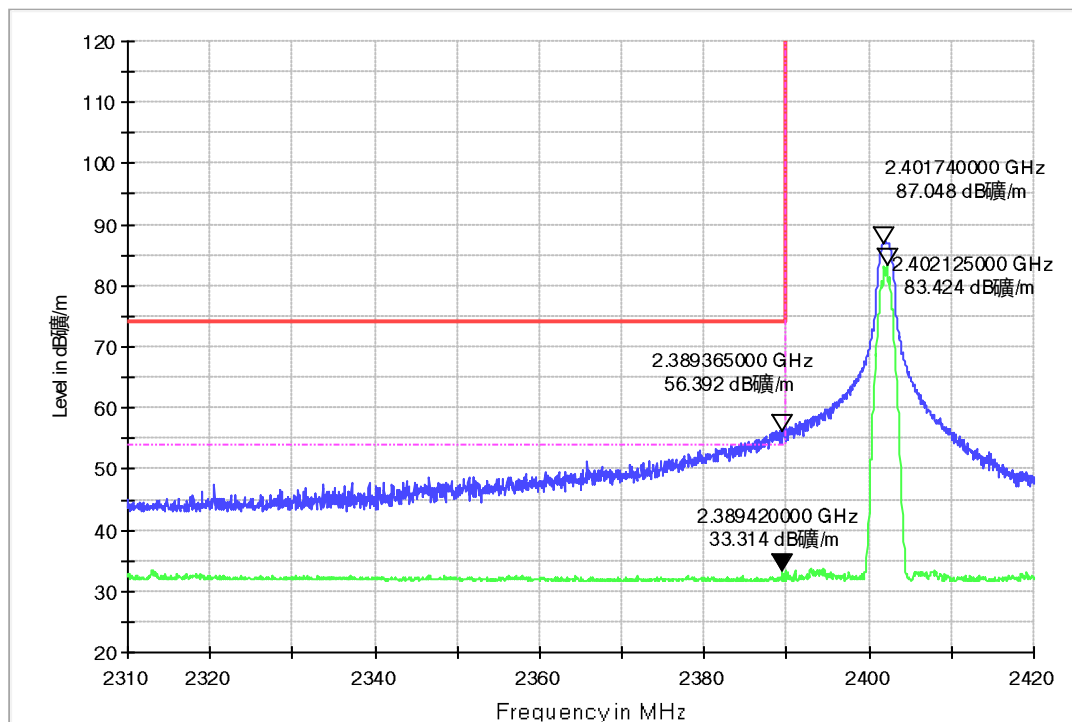
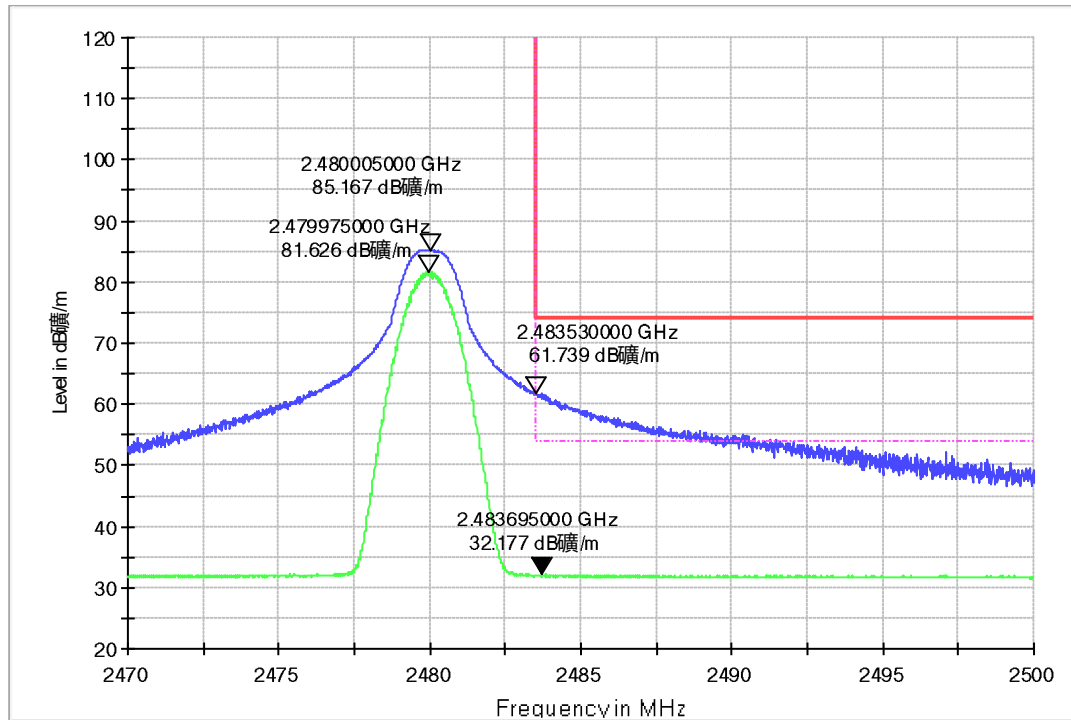
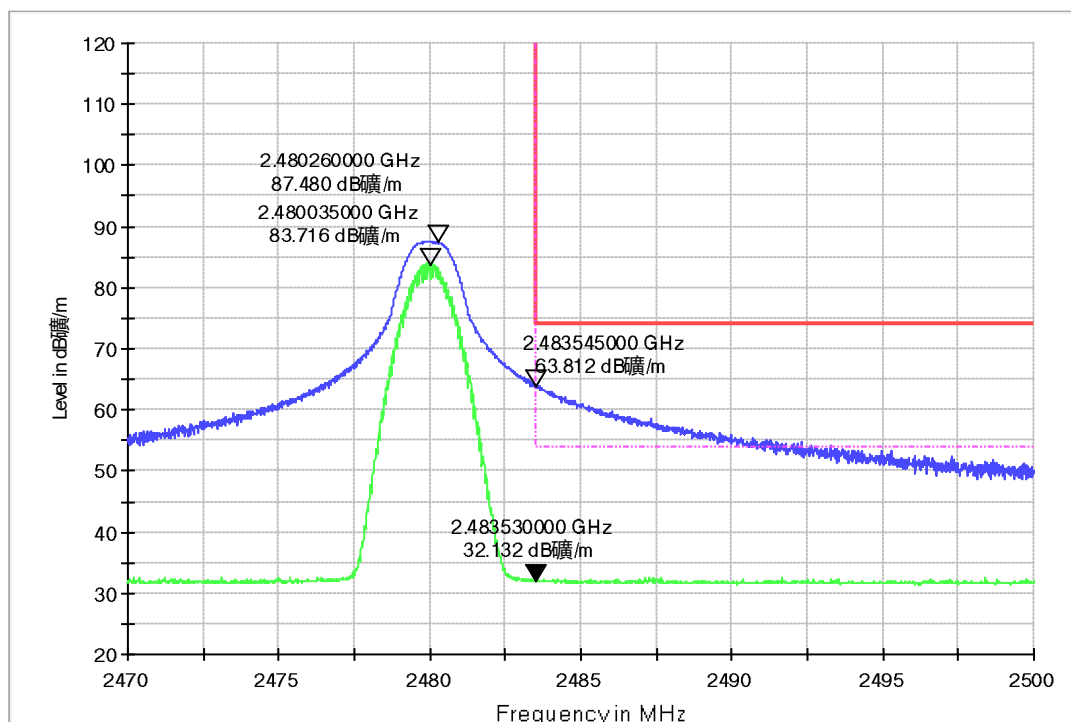


Figure 8: Radiated Band-Edge, 1Mbps, 2480MHz, H

XXY-2470° 2500 BE 1-18GHz HL050 FSV40 Pre-10-YUNFANG


Figure 9: Radiated Band-Edge, 1Mbps, 2480MHz, V

XXY-2470° 2500 BE 1-18GHz HL050 FSV40 Pre-10-YUNFANG



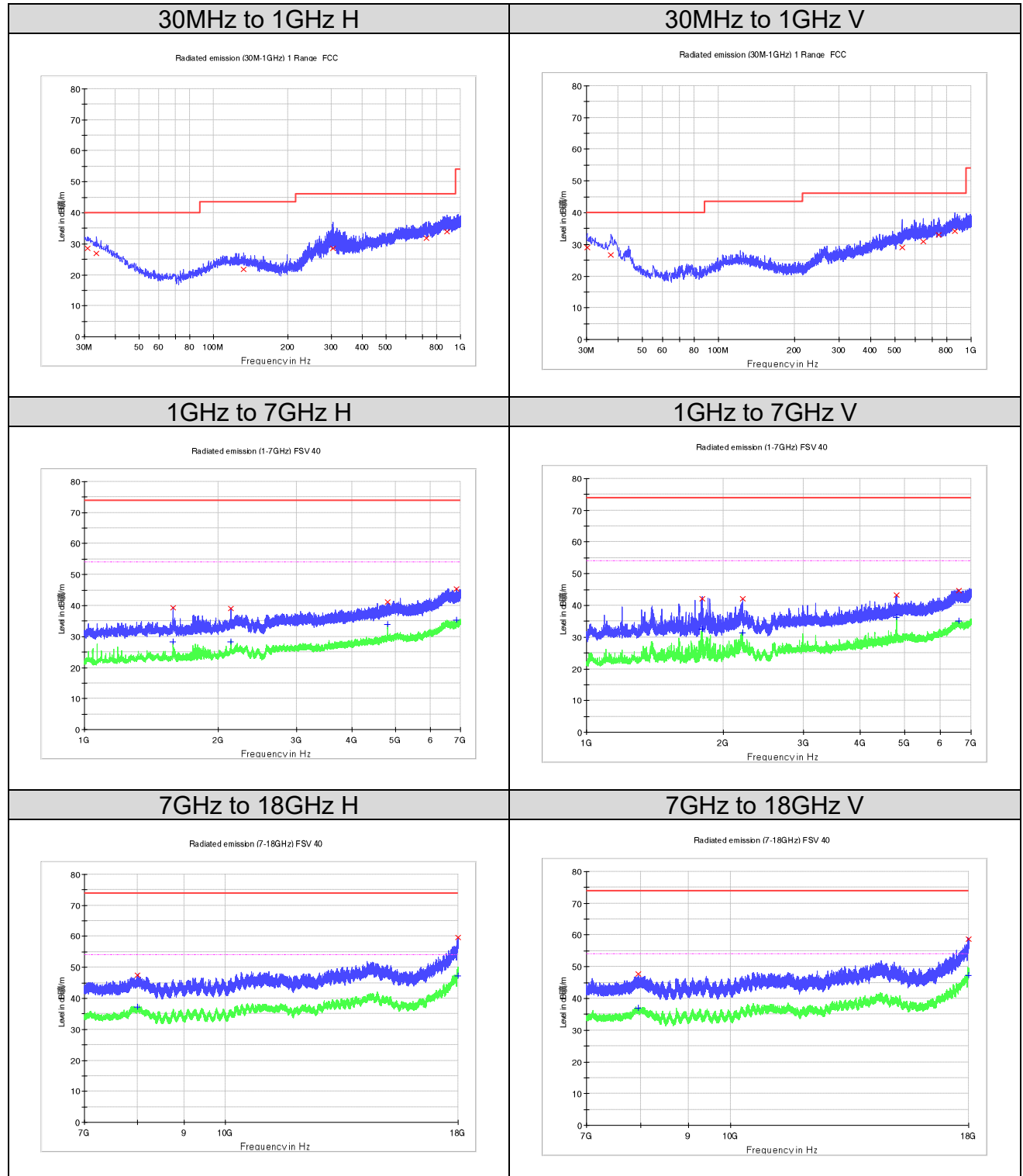
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

Date of testing	:	2026-03-16
Ambient temperature	:	21.4°C
Relative humidity	:	40.5%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-247 Issue 4, July 24, 2025, Clause 6.6
Test procedure	:	ANSI C63.10:2020 ANSI C63.10-2020+COR. 1-2023+C63.10A- 2024+ERRATA TO C63.10A-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	A

Note:

1. All the test modes were applied, only the worst case was shown on the report.
2. For the frequency range from 18GHz to 25GHz, no emission was found.

Figure 10: Radiated Spurious Emission, 1Mbps, 2402MHz


Limit and Margin
QP

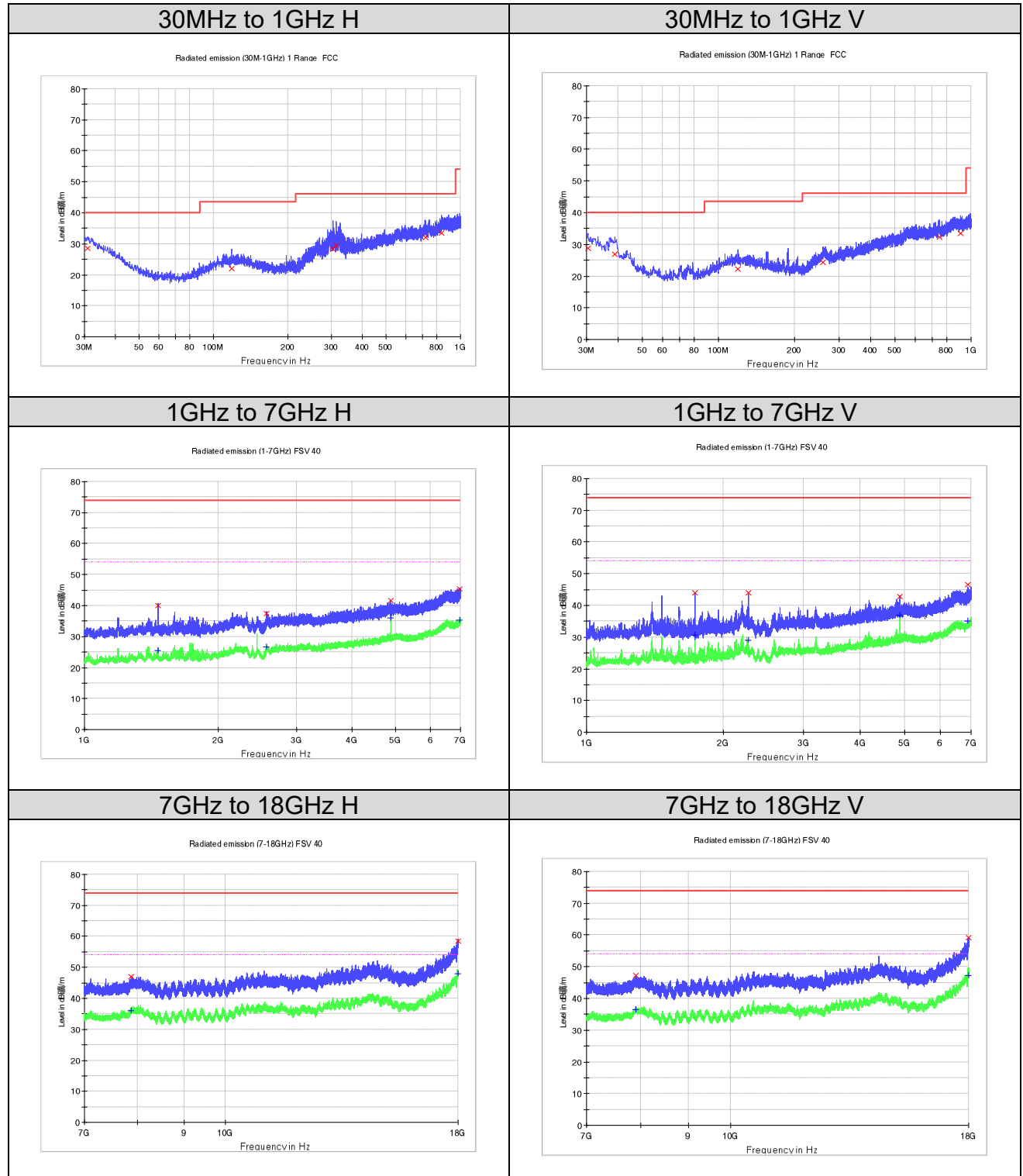
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.848750	28.5	H	25.0	11.5	40.0
33.516250	26.9	H	23.4	13.1	40.0
132.698750	21.7	H	18.4	21.8	43.5
304.752500	28.6	H	20.6	17.4	46.0
726.581250	31.8	H	27.9	14.2	46.0
880.811250	34.0	H	29.0	12.0	46.0
30.121250	28.9	V	25.3	11.1	40.0
37.517500	26.6	V	21.2	13.4	40.0
531.975000	29.0	V	25.0	17.0	46.0
648.132500	31.0	V	27.0	15.0	46.0
744.283750	33.0	V	29.1	13.0	46.0
864.685000	34.1	V	29.1	11.9	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1580.636364	39.3	H	-18.9	34.7	74.0
2130.454546	39.0	H	-16.4	35.0	74.0
4804.545455	41.2	H	-11.2	32.8	74.0
6853.000000	45.5	H	-7.5	28.5	74.0
8011.656250	47.4	H	-3.3	26.6	74.0
17984.531250	59.6	H	11.8	14.4	74.0
1794.181818	42.2	V	-18.8	31.8	74.0
2202.454546	42.2	V	-15.7	31.8	74.0
4803.727273	43.4	V	-11.2	30.6	74.0
6588.181818	44.6	V	-7.4	29.4	74.0
7956.312500	47.7	V	-3.5	26.3	74.0
17986.593750	58.8	V	11.9	15.2	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1580.636364	28.3	H	-18.9	25.7	54.0
2130.454546	28.2	H	-16.4	25.8	54.0
4804.545455	33.8	H	-11.2	20.2	54.0
6853.000000	35.3	H	-7.5	18.7	54.0
8011.656250	37.3	H	-3.3	16.7	54.0
17984.531250	47.3	H	11.8	6.7	54.0
1794.181818	32.6	V	-18.8	21.4	54.0
2202.454546	31.3	V	-15.7	22.7	54.0
4803.727273	36.2	V	-11.2	17.8	54.0
6588.181818	35.0	V	-7.4	19.0	54.0
7956.312500	36.9	V	-3.5	17.1	54.0
17986.593750	47.2	V	11.9	6.8	54.0

Figure 11: Radiated Spurious Emission, 1Mbps, 2440MHz


Limit and Margin
QP

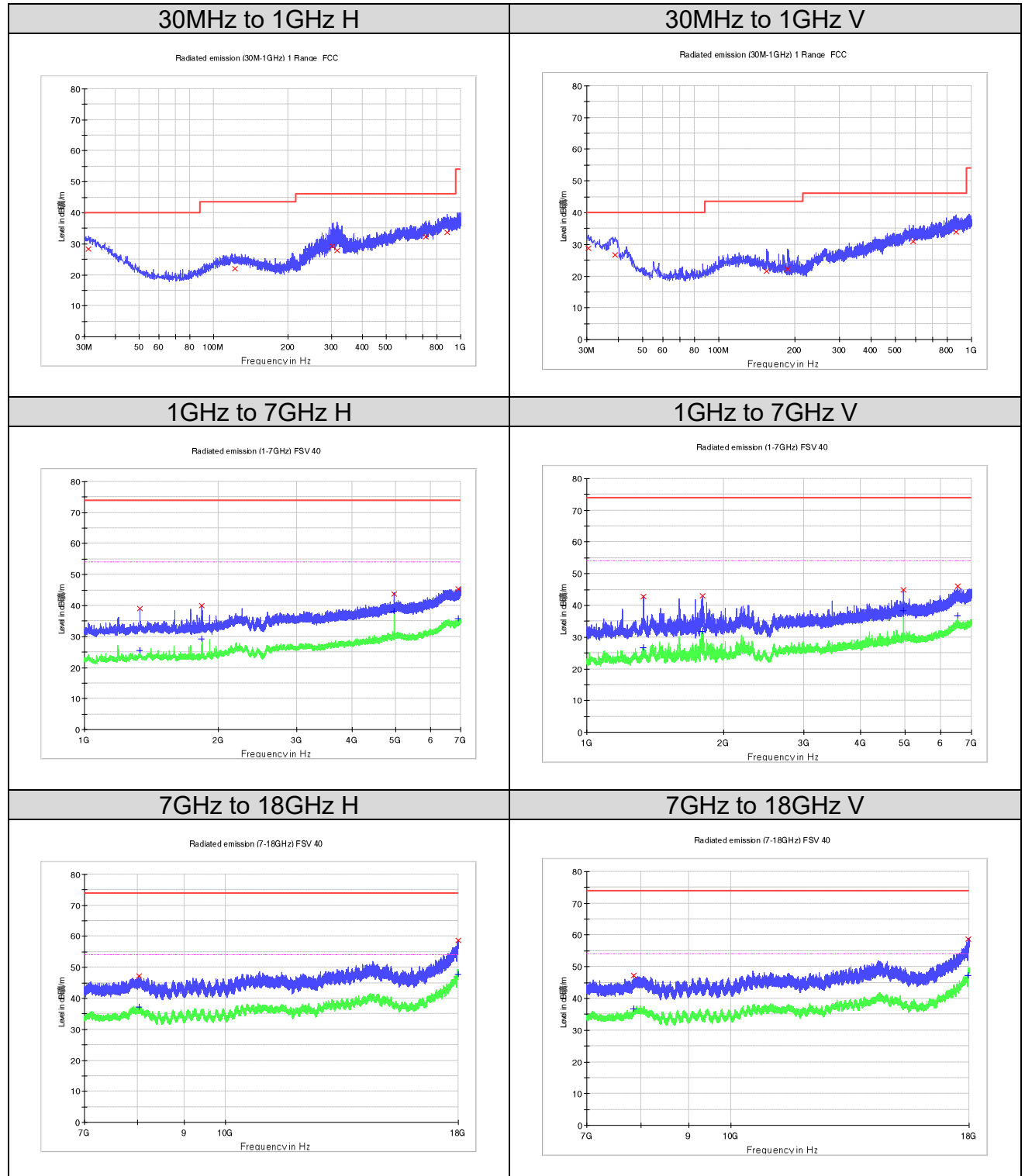
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	28.5	H	24.9	11.5	40.0
118.027500	22.0	H	18.8	21.5	43.5
304.510000	28.4	H	20.6	17.6	46.0
313.482500	29.4	H	20.3	16.6	46.0
720.155000	32.1	H	28.2	13.9	46.0
839.828750	33.4	H	28.9	12.6	46.0
30.363750	28.8	V	25.2	11.2	40.0
38.851250	26.9	V	20.4	13.1	40.0
119.240000	22.2	V	18.7	21.3	43.5
258.798750	24.3	V	21.1	21.7	46.0
750.103750	32.3	V	28.5	13.7	46.0
909.911250	33.5	V	28.7	12.5	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1464.454546	40.0	H	-18.6	34.0	74.0
2566.818182	37.5	H	-15.9	36.5	74.0
4879.545455	41.7	H	-11.1	32.3	74.0
6973.272727	45.4	H	-6.5	28.6	74.0
7879.312500	47.1	H	-4.0	26.9	74.0
17999.312500	58.5	H	12.1	15.5	74.0
1732.272727	43.9	V	-18.8	30.1	74.0
2264.636364	43.9	V	-15.6	30.1	74.0
4879.272727	42.9	V	-11.1	31.1	74.0
6872.636364	46.6	V	-7.4	27.4	74.0
7908.875000	47.4	V	-3.7	26.7	74.0
17984.187500	59.2	V	11.8	14.8	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1464.454546	25.4	H	-18.6	28.6	54.0
2566.818182	26.7	H	-15.9	27.3	54.0
4879.545455	36.1	H	-11.1	17.9	54.0
6973.272727	35.4	H	-6.5	18.6	54.0
7879.312500	36.1	H	-4.0	17.9	54.0
17999.312500	47.8	H	12.1	6.2	54.0
1732.272727	30.7	V	-18.8	23.3	54.0
2264.636364	29.0	V	-15.6	25.0	54.0
4879.272727	37.0	V	-11.1	17.0	54.0
6872.636364	35.1	V	-7.4	18.9	54.0
7908.875000	36.6	V	-3.7	17.4	54.0
17984.187500	47.3	V	11.8	6.8	54.0

Figure 12: Radiated Spurious Emission, 1Mbps, 2480MHz


Limit and Margin
QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.212500	28.2	H	24.8	11.8	40.0
122.150000	21.9	H	18.7	21.6	43.5
301.600000	29.3	H	20.9	16.7	46.0
316.392500	27.7	H	20.5	18.3	46.0
725.247500	32.2	H	28.2	13.8	46.0
878.871250	33.7	H	28.8	12.3	46.0
30.485000	28.7	V	25.2	11.3	40.0
38.972500	26.7	V	20.4	13.3	40.0
154.645000	21.5	V	16.9	22.0	43.5
187.018750	22.2	V	15.8	21.3	43.5
587.022500	31.0	V	26.7	15.0	46.0
866.382500	33.9	V	29.0	12.1	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1330.545455	39.0	H	-18.7	35.0	74.0
1835.636364	40.0	H	-18.6	34.0	74.0
4959.454546	43.8	H	-11.0	30.2	74.0
6906.181818	45.5	H	-7.2	28.5	74.0
8032.281250	47.3	H	-3.4	26.7	74.0
17999.656250	58.8	H	12.1	15.3	74.0
1333.000000	42.9	V	-18.7	31.1	74.0
1792.818182	43.0	V	-18.8	31.0	74.0
4960.272727	45.0	V	-11.0	29.0	74.0
6538.545455	46.1	V	-7.3	27.9	74.0
7866.593750	47.2	V	-4.2	26.8	74.0
17962.875000	58.8	V	11.5	15.2	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1330.545455	25.5	H	-18.7	28.6	54.0
1835.636364	29.2	H	-18.6	24.8	54.0
4959.454546	38.1	H	-11.0	15.9	54.0
6906.181818	35.9	H	-7.2	18.1	54.0
8032.281250	37.2	H	-3.4	16.8	54.0
17999.656250	47.8	H	12.1	6.3	54.0
1333.000000	26.6	V	-18.7	27.5	54.0
1792.818182	31.8	V	-18.8	22.2	54.0
4960.272727	38.3	V	-11.0	15.7	54.0
6538.545455	36.6	V	-7.3	17.4	54.0
7866.593750	36.8	V	-4.2	17.2	54.0
17962.875000	47.3	V	11.5	6.7	54.0

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