

Prüfbericht-Nr.: Test report no.:	CN25MJ5A 001	Auftrags-Nr.: Order no.:	326138353	Seite 1 von 44 Page 1 of 44
Kunden-Referenz-Nr.: Client reference no.:	1288983	Auftragsdatum: Order date:	2025-11-13	
Auftraggeber: Client:	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: Test item:	Portable Luminaire			
Bezeichnung / Typ-Nr.: Identification / Type no.:	B2502			
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:	2025-11-28	Refer to photo document.		
Prüfmuster-Nr.: Test sample no.:	A004150426-005~008			
Prüfzeitraum: Testing period:	2025-12-10 ~ 2026-01-04			
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:	X <u>Hongfei Wu</u> Signed by: Hongfei Wu		genehmigt von: authorized by:	X <u>Weidong Wang</u> Signed by: Weidong Wang
Datum: Date:	2026-02-24		Datum: Date:	2026-02-24
Stellung / Position:	Sachverständige(r)/Expert		Stellung / Position:	Sachverständige(r)/Expert
Sonstiges / Other:	FCC ID: FHO-B2502 IC: 10912A-B2502 HVIN: B2502 PMN: SPEGELBLANKT This report is for Thread.			
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
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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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.	Description	Model	Manufacturer	Due Date
EMC-C-196	Wireless connectivity tester	CMW270	Rohde & Schwarz	2027-08-09
EMC-C-302	Signal generator	SMB100B (6 GHz)	Rohde & Schwarz	2026-11-27
EMC-C-303	Vector Signal generator	SMW200A	Rohde & Schwarz	2026-11-27
EMC-C-304	OSP	OSP-B157W8	Rohde & Schwarz	2026-11-27
EMC-C-161	Spectrum analyser	FSV40	Rohde&Schwarz	2026-07-11
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	Schwarzbeck	2026-03-24
EMC-C-066	EMI test receiver	ESCI	Rohde&Schwarz	2026-09-28
EMC-C-068	Broadband horn antenna	BBHA 9170	Schwarzbeck	2028-06-18
EMC-C-155	BiLog antenna	CBL 6112D	Teseq	2026-09-24
EMC-C-175	Preamplifier	EMC051845SE	EMCI Taiwan	2026-07-11
EMC-C-176	Preamplifier	EMC184045SE	EMCI Taiwan	2026-07-11
EMC-C-001	3 m semi-anechoic chamber	SAC3	Frankonia	2026-12-03
EMC-C-141	Shielded enclosure	10.055x3.605x3.000	Frankonia	2028-11-08
EMC-C-195	EMI test receiver	ESR3	Rohde&Schwarz	2026-08-02
EMC-C-190	Artificial mains network	ENV432	Rohde&Schwarz	2026-09-02
software				
EMC-S-036	RF measurement software	WMS32-WB (11.40.00)	Rohde&Schwarz	NA
EMC-S-032	EMI measurement software	EMC32-E+ (10.60.20)	Rohde&Schwarz	NA
EMC-S-028	EMI measurement software	EMC32-MEB (10.60.20)	Rohde&Schwarz	NA

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 portable luminaire which support Bluetooth Low Energy, and Thread.

The aim of this report is to evaluate RF character of Thread of the EUT.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	Portable Luminaire
Model No.:	B2502
Operation Voltage:	DC 5V (powered by USB type C) DC 7.2V, Li-ion Rechargeable Battery
Li-ion Rechargeable Battery Model No.:	ICBL7.2-18-B1 ICBL7.2-18-USBC-B1
RF Technical:	1) BLE 2) Thread
Technical Specification of Thread	
Frequency Range:	2405~2480MHz
Modulation Type:	OQPSK
Antenna Type:	PCB Antenna
Antenna Gain:	-0.01 dBi (declared by client)

Note:

There are two types of Li-ion Rechargeable Battery that can be used in this product. The difference between the two batteries is that ICBL7.2-18-USBC-B1 has one more USB type C port than ICBL7.2-18-B1.

Therefore, the complete test was performed on B2502 with ICBL7.2-18-USBC-B1, and additional testing for radiated spurious emission was performed on B2502 with ICBL7.2-18-B1.

Table 4: Operation Channel List

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

3.3 Independent Operation Modes

Test frequencies are lowest channel: 2405 MHz, middle channel: 2445 MHz and highest channel: 2480 MHz

The basic operation modes are:

- A. Thread 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: sscom 5.13.1

Table 5: Power parameter value

Mode	Power Parameter Setting Value
Thread	80

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	Manufacturer	Model
Laptop	Lenovo	21AJ-S57N0J
Mobile phone	Apple	iPhone 15
Loudspeaker	Apple	HomePod mini
Adapter	IKEA	ICPSW5-5EU-1

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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 -0.01 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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*Page 14 of 44***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:	-0.01 dBi

Verdict: PASS

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

Date of testing	:	2025-12-10
Ambient temperature	:	20.4°C
Relative humidity	:	40.2%
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	:	DC 7.2V by battery
Test modes applied	:	A

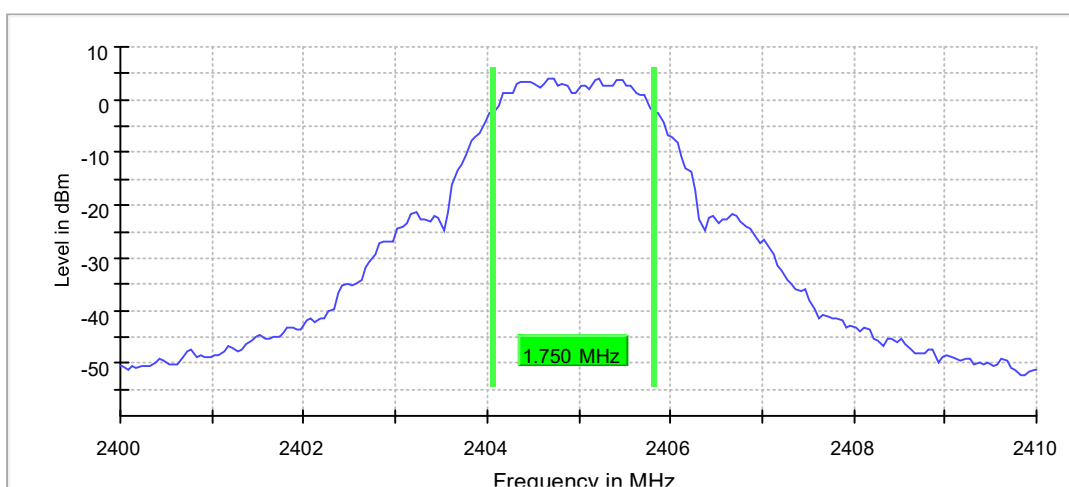
6dB Bandwidth, 2405MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2405.000000	1.750000	0.500000	---	2404.075000	2405.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2405.000000	4.1	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.41000 GHz	2.41000 GHz
Span	10.000 MHz	10.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	200	~ 200
Sweptime	37.969 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	18 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

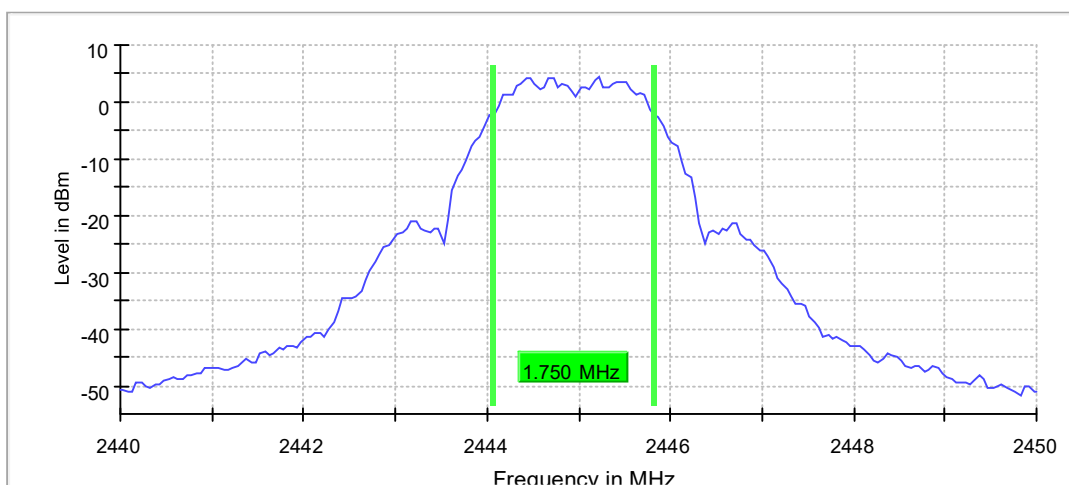
6dB Bandwidth, 2445MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2445.000000	1.750000	0.500000	---	2444.075000	2445.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2445.000000	4.4	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.45000 GHz	2.45000 GHz
Span	10.000 MHz	10.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	200	~ 200
Sweeptime	37.969 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
Preamplifier	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	22 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.00 dB	0.50 dB

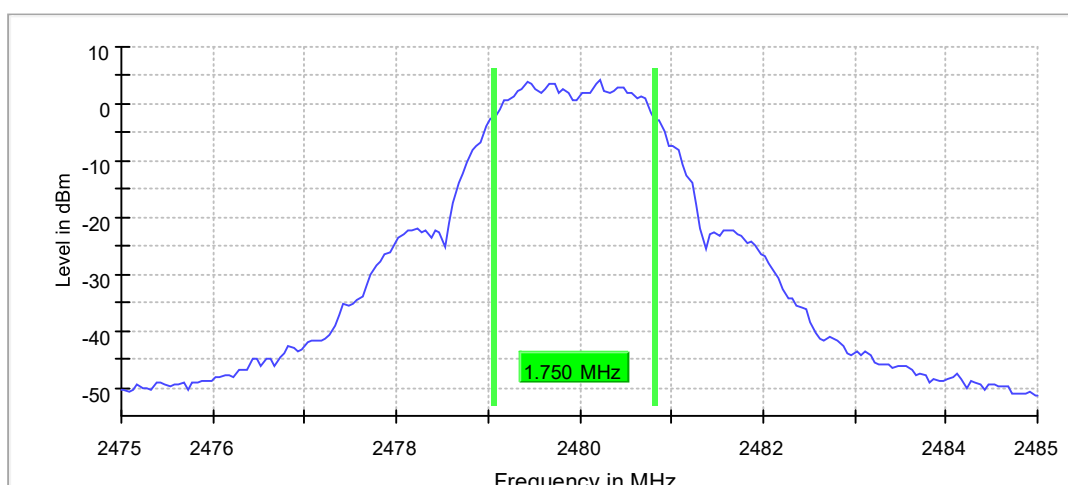
6dB Bandwidth, 2480MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.750000	0.500000	---	2479.075000	2480.825000

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

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	4.1	PASS

6 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47500 GHz	2.47500 GHz
Stop Frequency	2.48500 GHz	2.48500 GHz
Span	10.000 MHz	10.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	~ 300.000 kHz
SweepPoints	200	~ 200
SweepTime	37.969 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	16 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.02 dB	0.50 dB

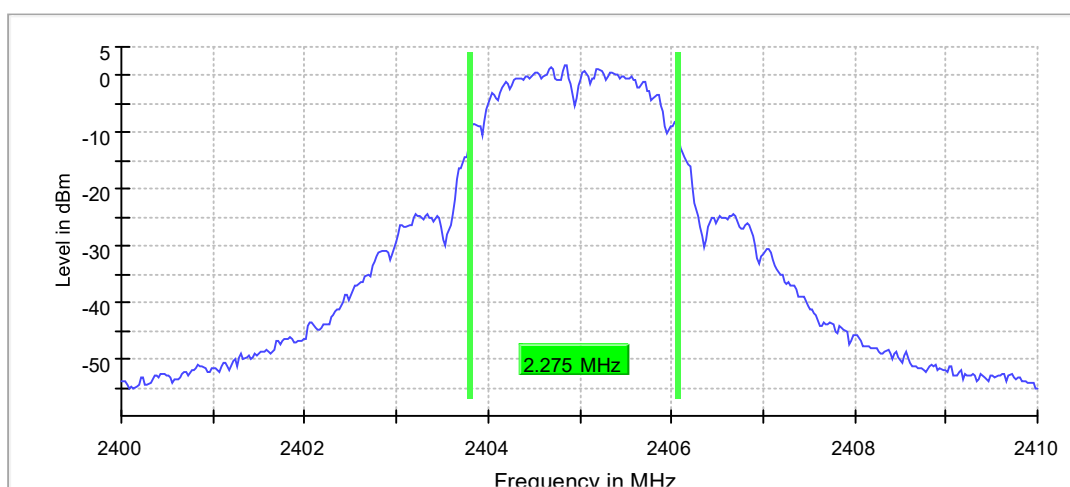
99% Occupied Channel Bandwidth, 2405MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2405.000000	2.275000	---	---	2403.812500	2406.087500

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

DUT Frequency (MHz)	Result
2405.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.41000 GHz	2.41000 GHz
Span	10.000 MHz	10.000 MHz
RBW	50.000 kHz	>= 50.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	400	~ 400
Sweeptime	75.781 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	21 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.05 dB	0.30 dB

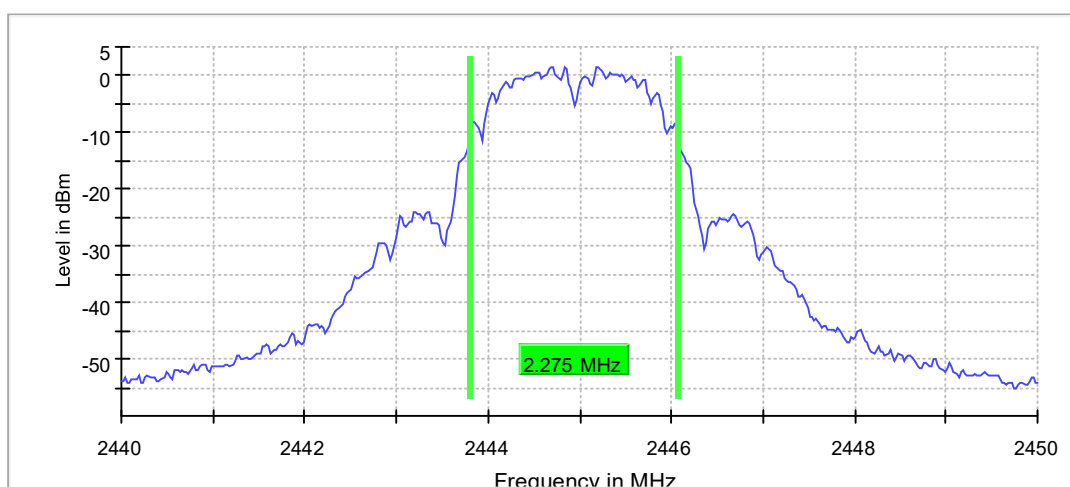
99% Occupied Channel Bandwidth, 2445MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2445.000000	2.275000	---	---	2443.812500	2446.087500

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

DUT Frequency (MHz)	Result
2445.000000	PASS

99 % Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.45000 GHz	2.45000 GHz
Span	10.000 MHz	10.000 MHz
RBW	50.000 kHz	>= 50.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	400	~ 400
Sweeptime	75.781 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	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.23 dB	0.30 dB

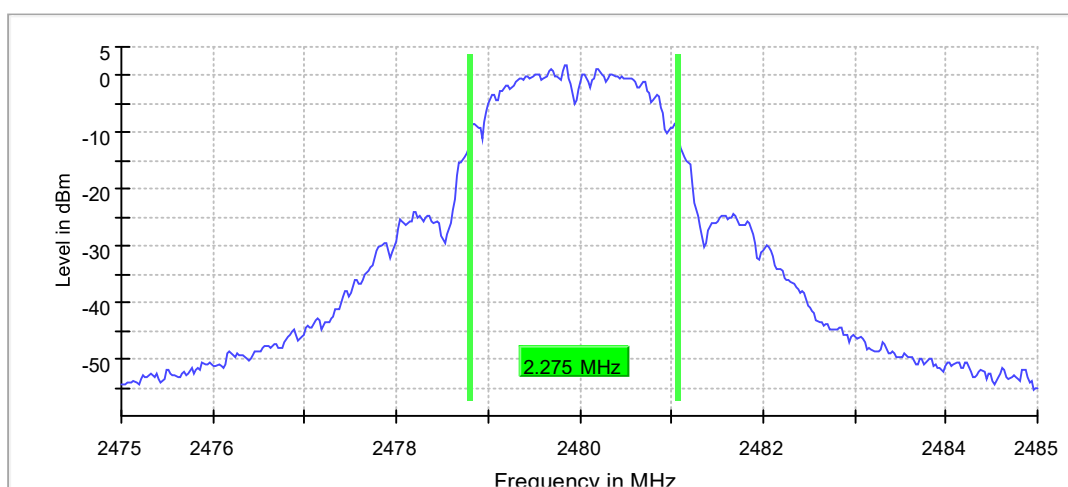
99% Occupied Channel Bandwidth, 2480MHz

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	2.275000	---	---	2478.812500	2481.087500

(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	2.47500 GHz	2.47500 GHz
Stop Frequency	2.48500 GHz	2.48500 GHz
Span	10.000 MHz	10.000 MHz
RBW	50.000 kHz	>= 50.000 kHz
VBW	200.000 kHz	>= 150.000 kHz
SweepPoints	400	~ 400
Sweptime	75.781 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	18 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.19 dB	0.30 dB

5.1.3 Output Power

RESULT:**Pass**

Date of testing : 2025-12-10
Ambient temperature : 20.2°C
Relative humidity : 40.6%
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 : DC 7.2V by battery
Test modes applied : A

Table 9: Peak Output Power

Frequency [MHz]	Peak Conducted Output Power [dBm]	Limit [dBm]
2405	8.1	30
2445	8.1	30
2480	7.8	30

Note:

EIRP=Conducted Output Power + Antenna Gain (-0.01dBi), which is far below the 4 W (36dBm).

5.1.4 Power Spectral Density

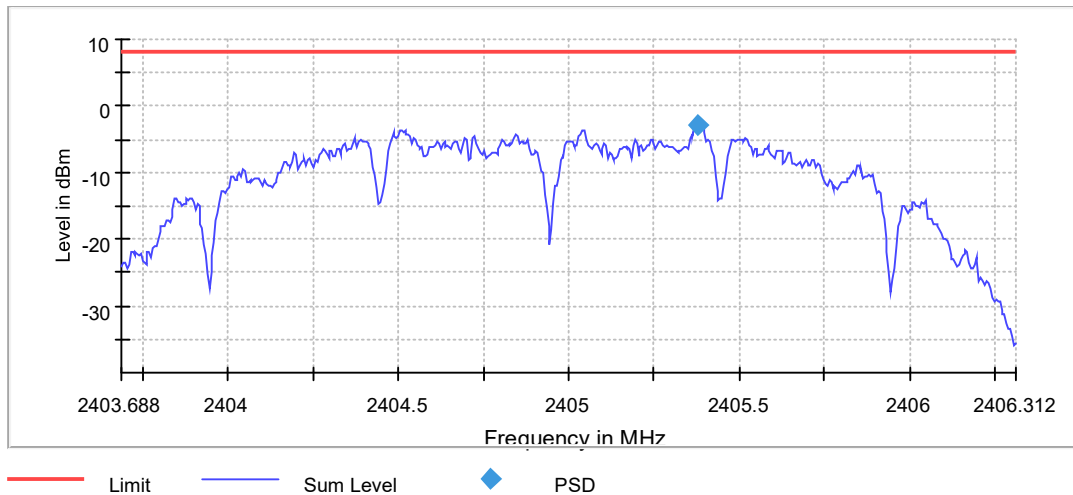
RESULT:**Pass**

Date of testing	:	2025-12-10
Ambient temperature	:	20.3°C
Relative humidity	:	40.4%
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	:	DC 7.2V by battery
Test modes applied	:	A

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Power Spectral Density, 2405MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2405.000000	2405.380000	-2.875	8.0	PASS

Peak Power Spectral Density

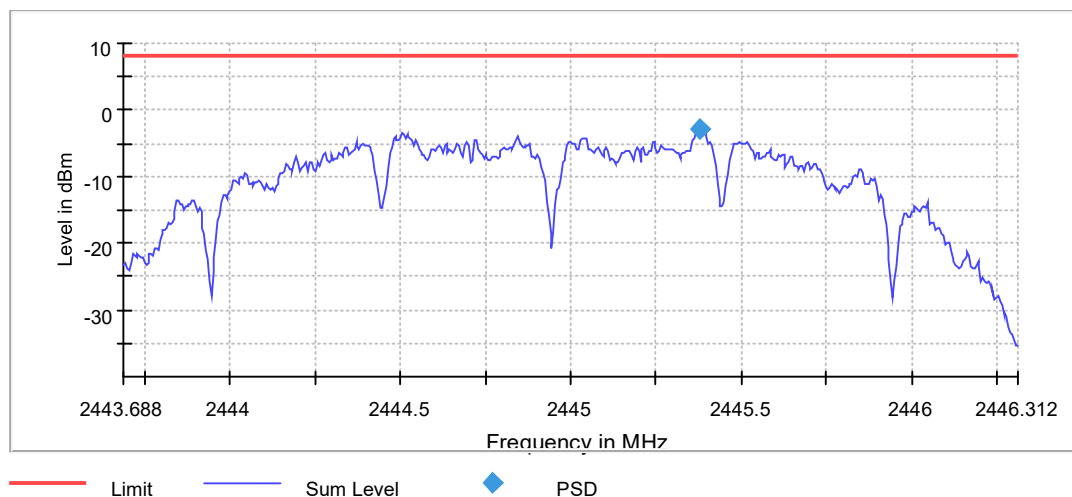

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40369 GHz	2.40369 GHz
Stop Frequency	2.40631 GHz	2.40631 GHz
Span	2.625 MHz	2.625 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	525	~ 525
Sweptime	2.630 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	14 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.27 dB	0.50 dB

Power Spectral Density, 2445MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2445.000000	2445.380000	-2.938	8.0	PASS

Peak Power Spectral Density

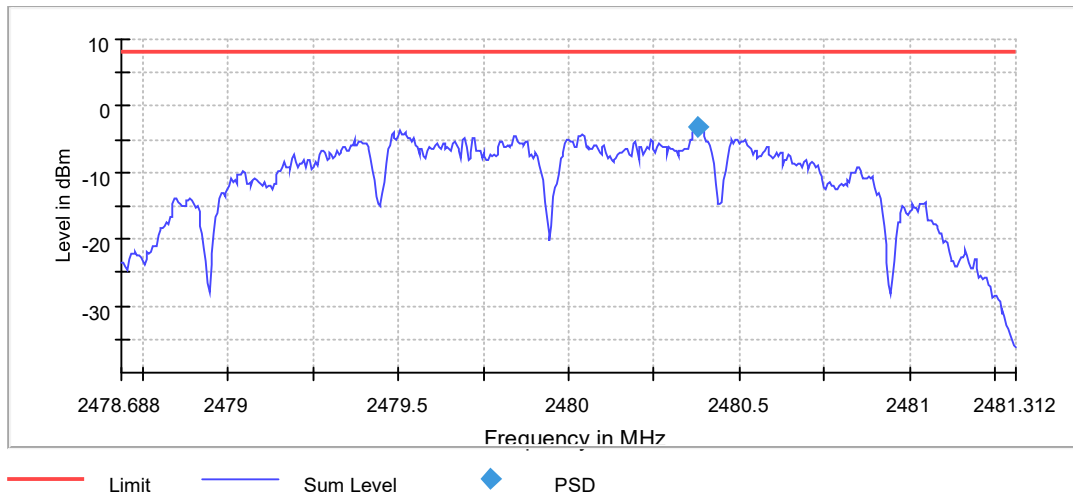

Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44369 GHz	2.44369 GHz
Stop Frequency	2.44631 GHz	2.44631 GHz
Span	2.625 MHz	2.625 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	525	~ 525
SweepTime	2.630 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	10 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.31 dB	0.50 dB

Power Spectral Density, 2480MHz

DUT Frequency (MHz)	Frequency (MHz)	PSD (dBm)	Limit Max (dBm)	Result
2480.000000	2480.380000	-3.186	8.0	PASS

Peak Power Spectral Density


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47869 GHz	2.47869 GHz
Stop Frequency	2.48131 GHz	2.48131 GHz
Span	2.625 MHz	2.625 MHz
RBW	10.000 kHz	<= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	525	~ 525
Sweeptime	2.630 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	10 / max. 150	max. 150
Stable	2 / 2	2
Max Stable Difference	0.35 dB	0.50 dB

5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT:

Pass

Date of testing	:	2025-12-10
Ambient temperature	:	20.1°C
Relative humidity	:	40.6%
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	:	DC 7.2V by battery
Test modes applied	:	A

Figure 1: Reference level

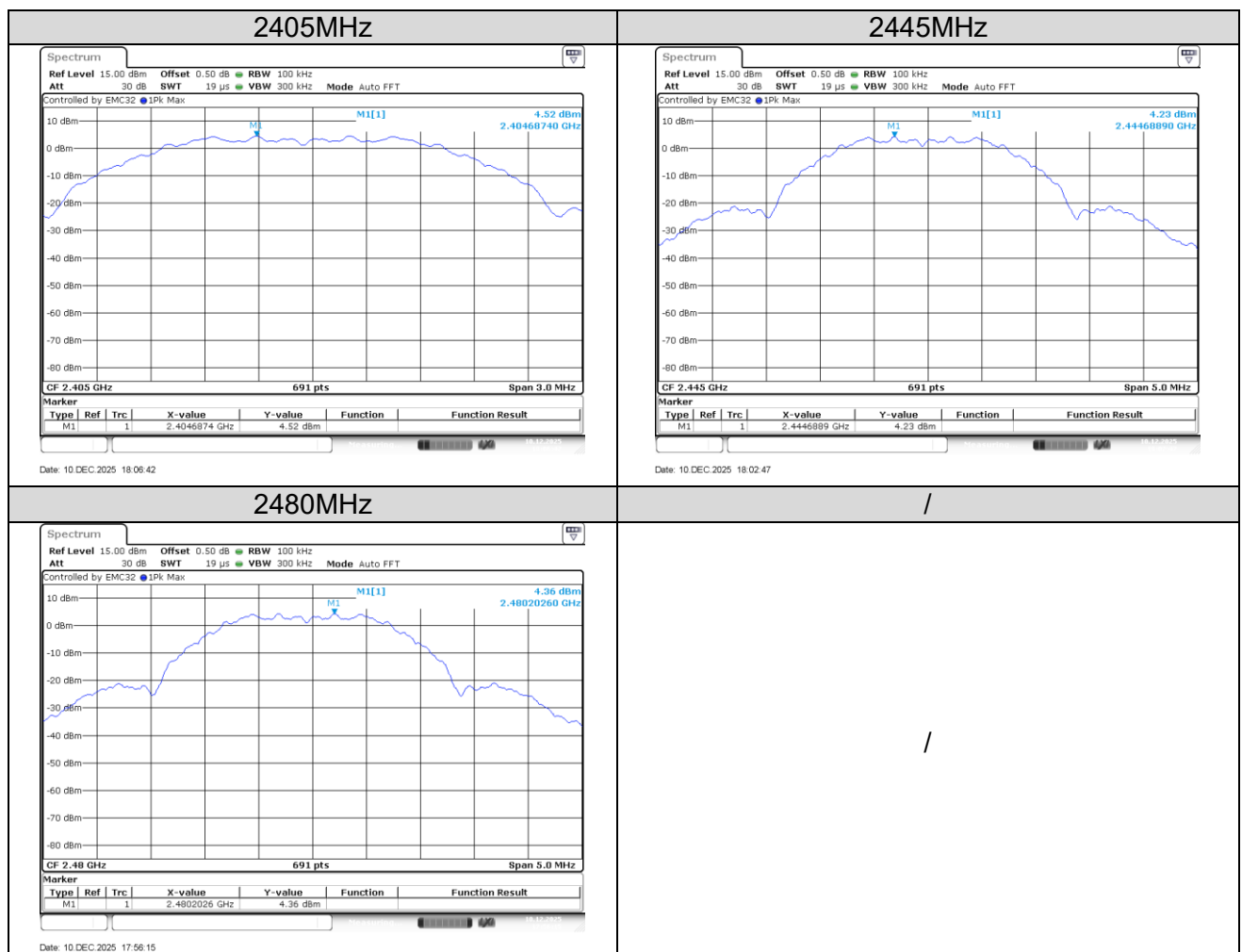
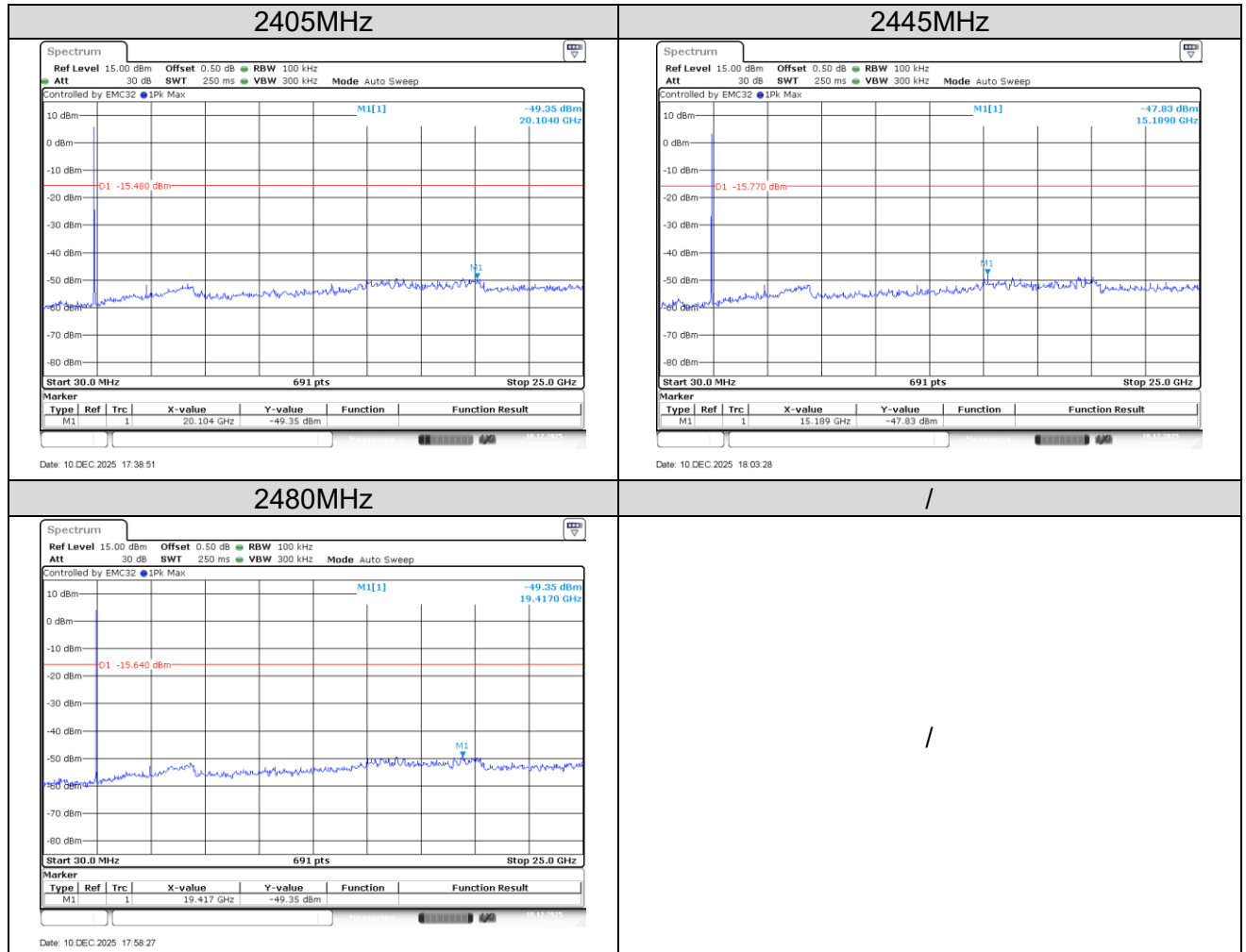
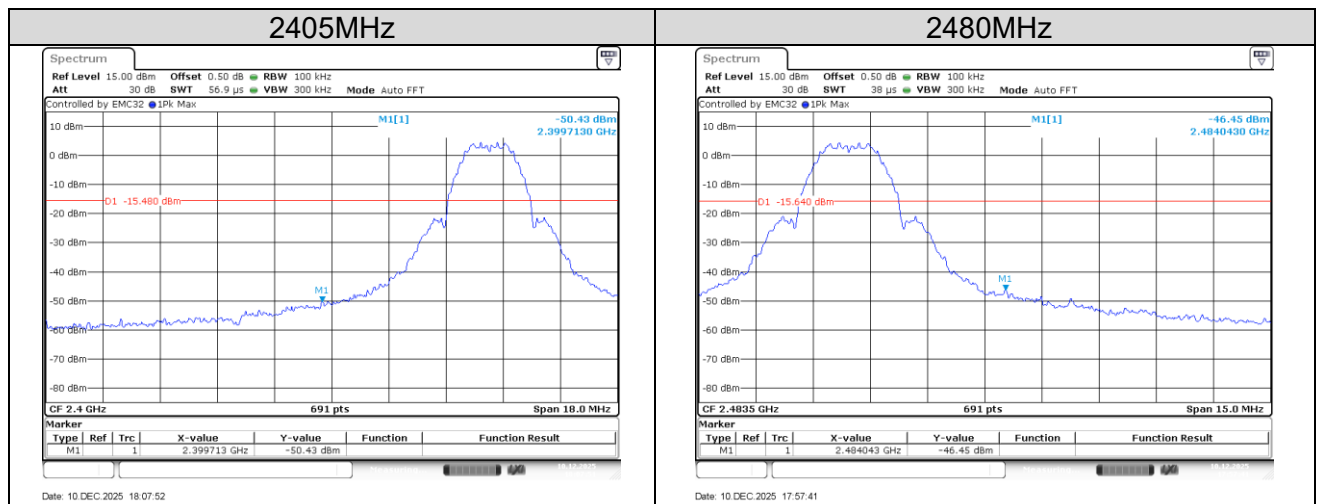


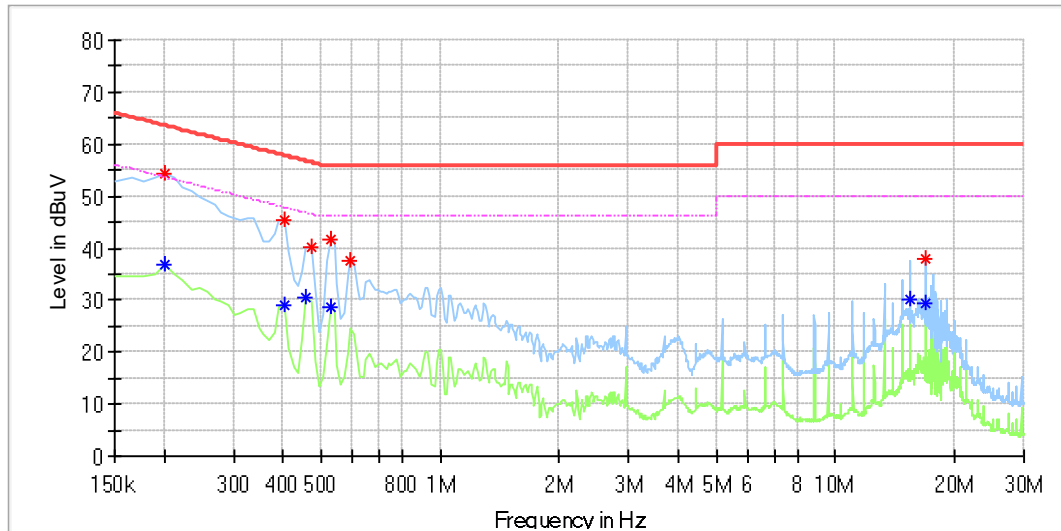
Figure 2: Conducted Spurious Emission

Figure 3: Conducted Band Edge


5.2 Emission in the Frequency Range up to 30MHz

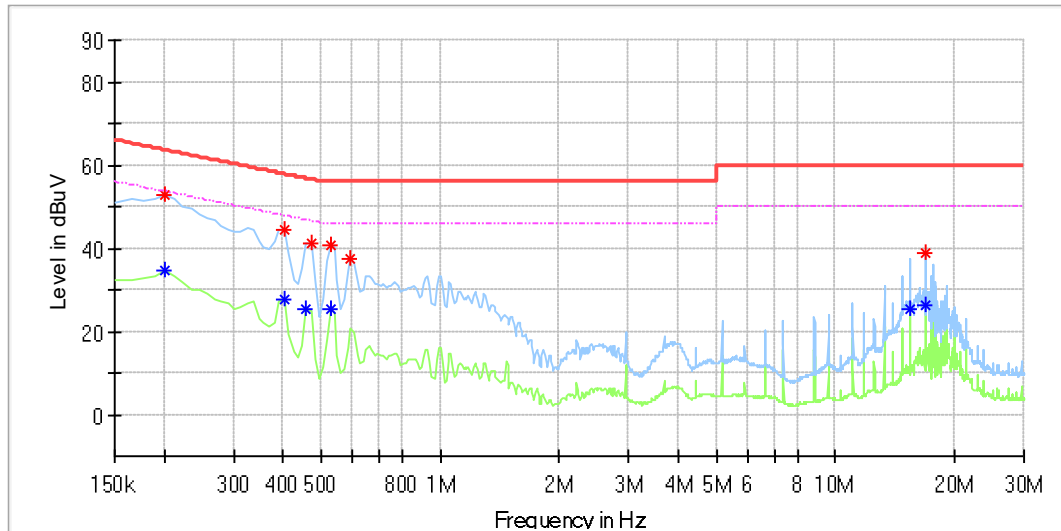
5.2.1 Conducted Emission

RESULT:**Pass**

Date of testing	:	2026-01-04
Ambient temperature	:	23.5°C
Relative humidity	:	49.5%
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 by adapter
Test modes applied	:	B

Figure 4: Conducted Emission, L

Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.200625	54.50	---	63.59	9.08	L1
0.200625	---	36.92	53.59	16.67	L1
0.403125	45.46	---	57.79	12.33	L1
0.403125	---	29.13	47.79	18.65	L1
0.459375	---	30.36	46.70	16.35	L1
0.470625	40.31	---	56.50	16.20	L1
0.526875	---	28.66	46.00	17.34	L1
0.526875	41.64	---	56.00	14.36	L1
0.594375	37.65	---	56.00	18.35	L1
15.500625	---	30.07	50.00	19.93	L1
16.974375	37.83	---	60.00	22.17	L1
16.974375	---	29.49	50.00	20.51	L1

Figure 5: Conducted Emission, N


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line
0.200625	52.84	---	63.59	10.75	N
0.200625	---	34.86	53.59	18.72	N
0.403125	44.41	---	57.79	13.38	N
0.403125	---	27.47	47.79	20.32	N
0.459375	---	25.18	46.70	21.52	N
0.470625	41.07	---	56.50	15.44	N
0.526875	---	25.49	46.00	20.51	N
0.526875	40.87	---	56.00	15.13	N
0.594375	37.37	---	56.00	18.63	N
15.500625	---	25.42	50.00	24.58	N
16.974375	38.67	---	60.00	21.33	N
16.974375	---	26.22	50.00	23.78	N

5.3 Emission in the Frequency Range above 30MHz

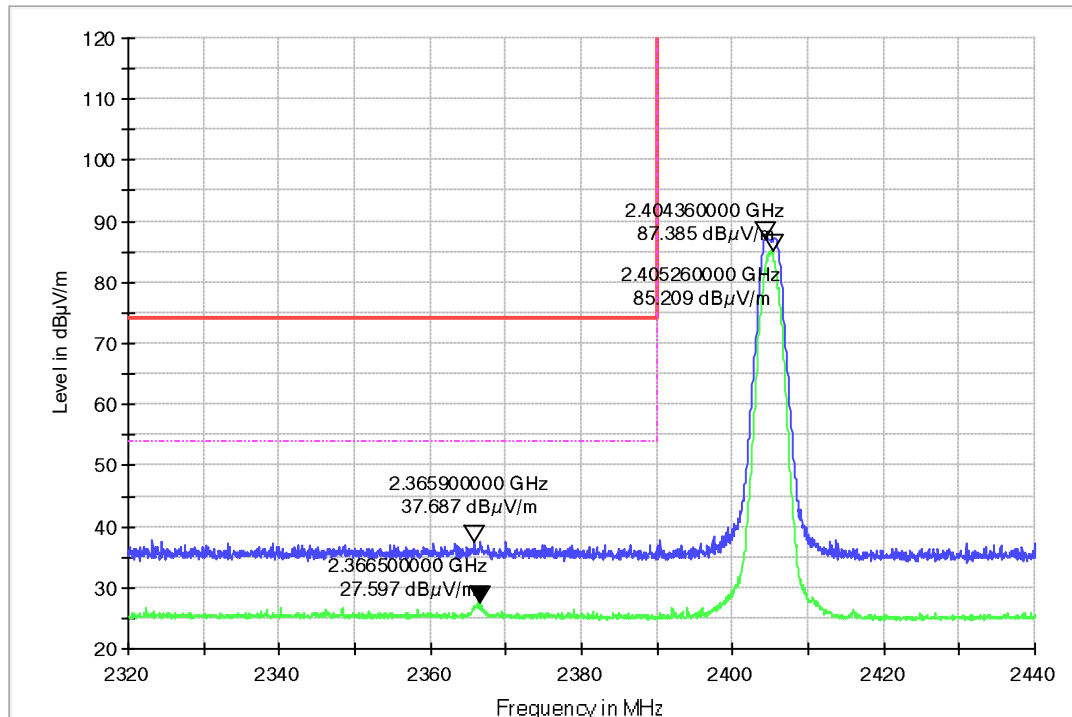
5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	:	2025-12-13
Ambient temperature	:	21.2°C
Relative humidity	:	46.3%
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	:	DC 7.2V by battery
Test modes applied	:	A

Figure 6: Radiated Band-Edge, 2405MHz, H

XXY- 2310~ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 7: Radiated Band-Edge, 2405MHz, V

XXY- 2310~ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG

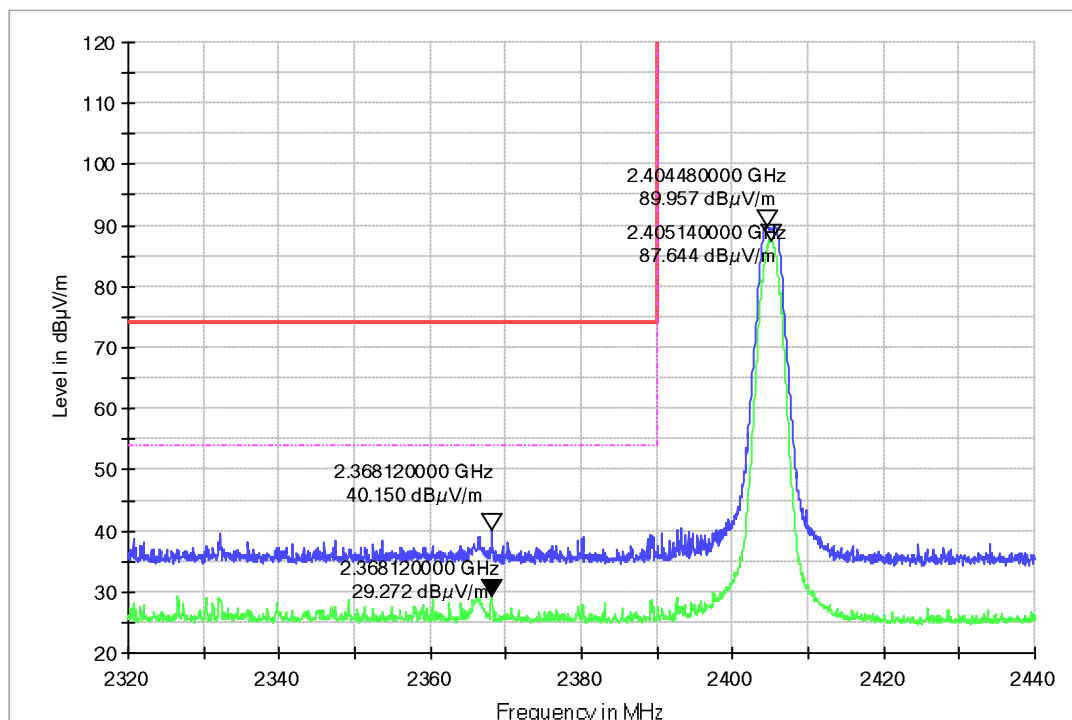
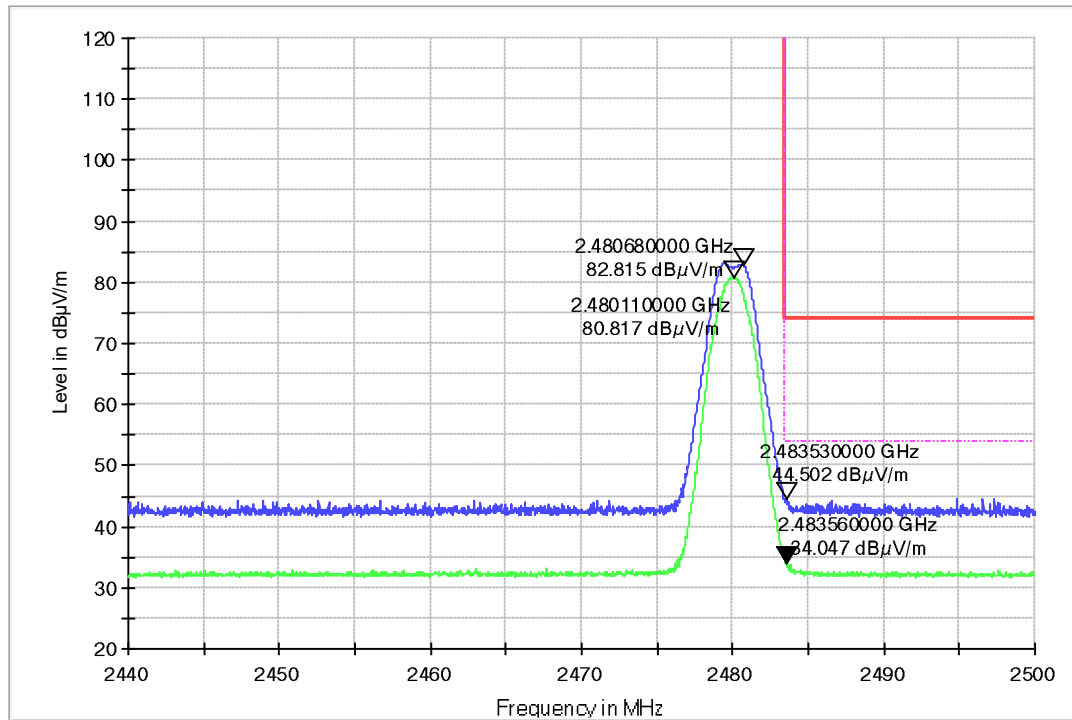
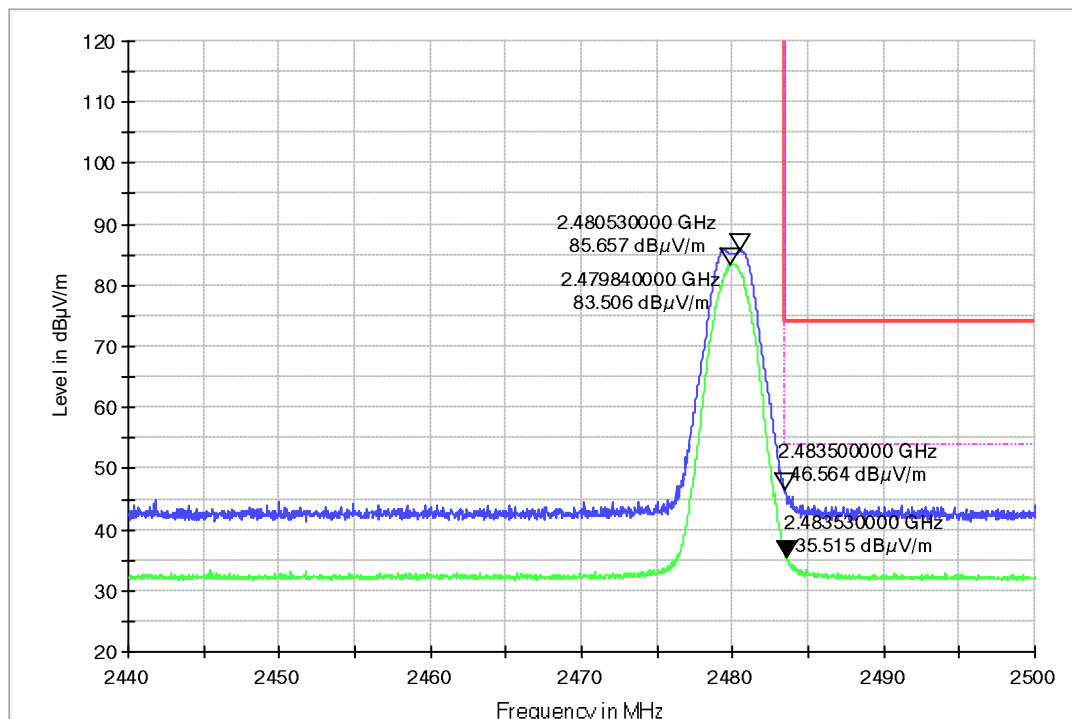


Figure 8: Radiated Band-Edge, 2480MHz, H

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG


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

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG

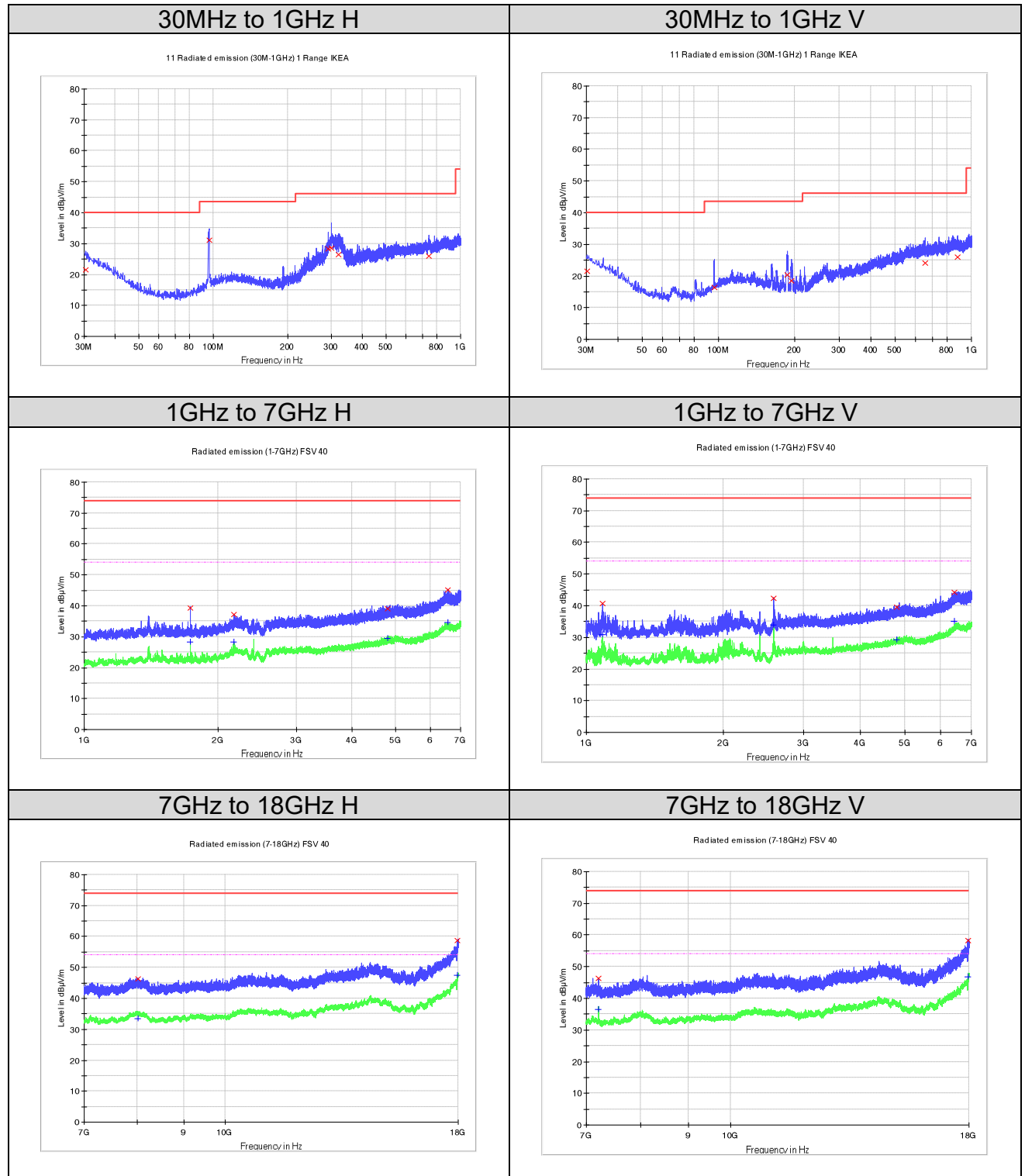


5.3.2 Radiated Spurious Emission**RESULT:****Pass**

Date of testing	:	2025-12-15
Ambient temperature	:	21.4°C
Relative humidity	:	47.5%
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+COR. 1-2023+C63.10A- 2024+ERRATA TO C63.10A-2024
Test voltage	:	DC 7.2V by battery
Test modes applied	:	A

Note:

For the frequency range from 18GHz to 25GHz, no emission was found.

Figure 10: Radiated Spurious Emission, 2405MHz (With ICBL7.2-18-USBC-B1)


Limit and Margin
QP

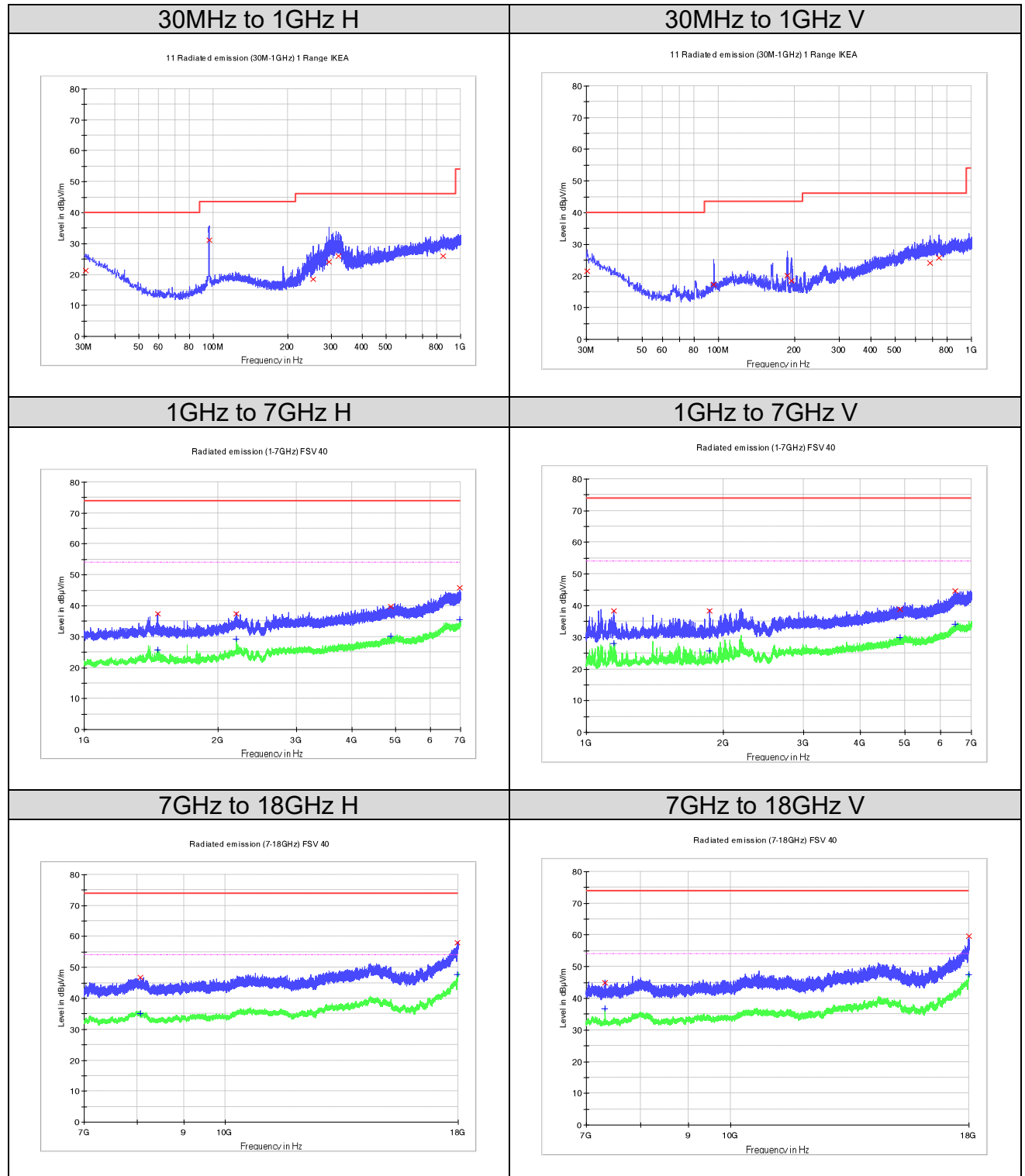
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.485000	21.4	H	25.2	18.6	40.0
95.960000	31.2	H	16.6	12.3	43.5
291.900000	28.2	H	20.1	17.8	46.0
300.751250	28.5	H	20.8	17.5	46.0
320.878750	26.5	H	21.1	19.5	46.0
744.405000	25.9	H	29.1	20.1	46.0
30.121250	21.6	V	25.3	18.4	40.0
95.960000	16.3	V	16.6	27.2	43.5
187.018750	20.4	V	15.8	23.1	43.5
193.808750	18.4	V	15.8	25.1	43.5
656.983750	24.0	V	26.9	22.0	46.0
880.083750	25.9	V	28.9	20.1	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1729.272727	39.2	H	-18.8	34.8	74.0
2168.090909	37.1	H	-16.0	36.9	74.0
4809.181818	39.1	H	-11.2	34.9	74.0
6549.727273	45.3	H	-7.3	28.8	74.0
8013.718750	46.3	H	-3.4	27.7	74.0
17979.031250	58.7	H	11.8	15.3	74.0
1085.090909	40.7	V	-19.8	33.4	74.0
2578.000000	42.4	V	-15.8	31.6	74.0
4811.090909	39.6	V	-11.2	34.4	74.0
6432.181818	44.2	V	-7.8	29.8	74.0
7213.125000	46.3	V	-6.0	27.7	74.0
17973.531250	58.2	V	11.7	15.8	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1729.272727	28.3	H	-18.8	25.7	54.0
2168.090909	28.2	H	-16.0	25.8	54.0
4809.181818	29.5	H	-11.2	24.5	54.0
6549.727273	34.6	H	-7.3	19.4	54.0
8013.718750	33.4	H	-3.4	20.6	54.0
17979.031250	47.4	H	11.8	6.6	54.0
1085.090909	31.0	V	-19.8	23.0	54.0
2578.000000	33.9	V	-15.8	20.1	54.0
4811.090909	29.3	V	-11.2	24.7	54.0
6432.181818	35.0	V	-7.8	19.0	54.0
7213.125000	36.6	V	-6.0	17.4	54.0
17973.531250	46.9	V	11.7	7.1	54.0

Figure 11: Radiated Spurious Emission, 2445MHz (With ICBL7.2-18-USBC-B1)


Limit and Margin
QP

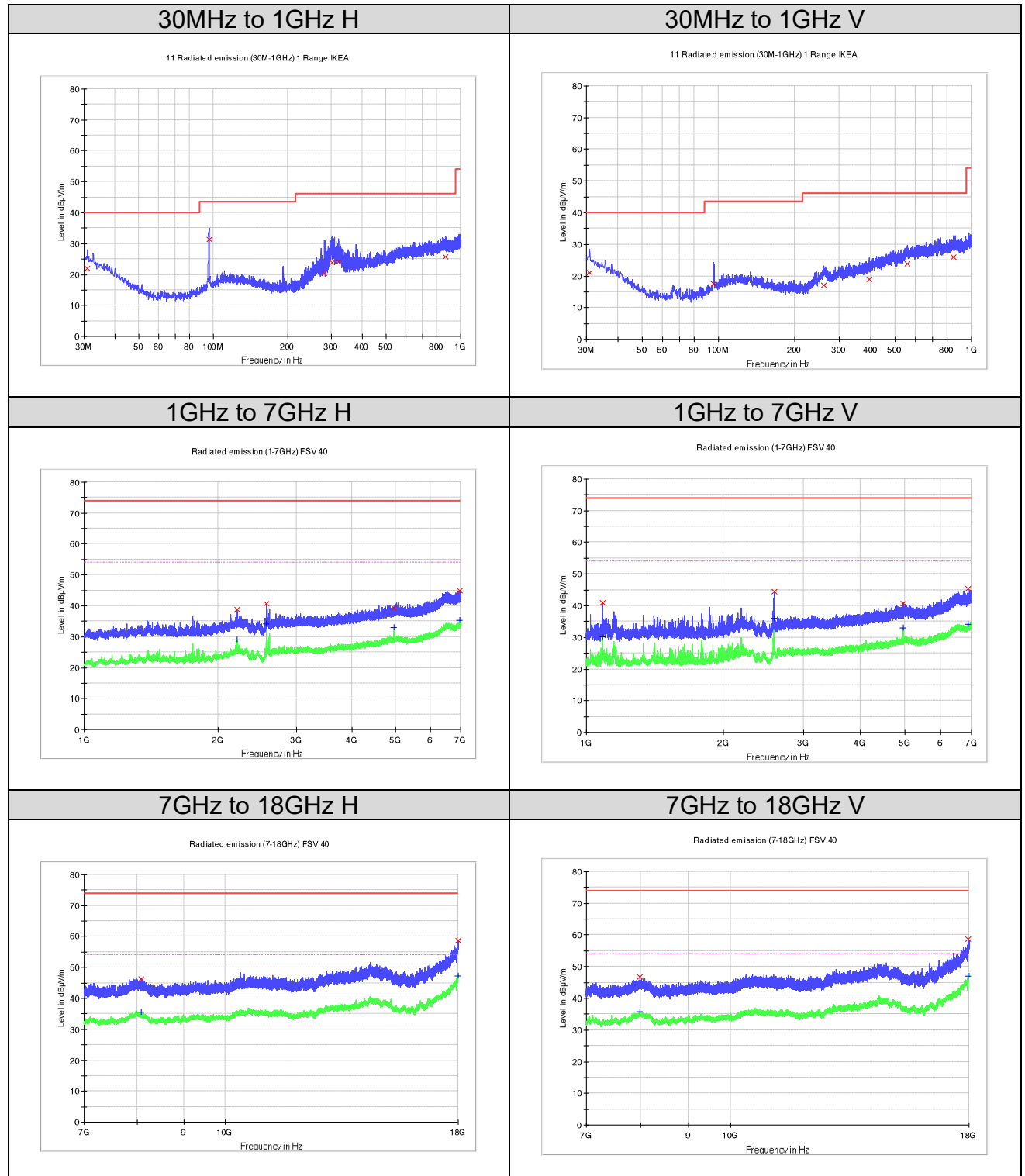
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	21.4	H	25.2	18.6	40.0
95.960000	31.1	H	16.6	12.4	43.5
252.857500	18.5	H	19.7	27.5	46.0
294.325000	24.1	H	20.3	22.0	46.0
320.515000	25.9	H	21.0	20.2	46.0
849.892500	26.0	H	28.9	20.0	46.0
30.121250	21.5	V	25.3	18.5	40.0
95.717500	17.2	V	16.5	26.3	43.5
187.503750	20.1	V	15.8	23.4	43.5
194.293750	18.5	V	15.8	25.0	43.5
686.690000	24.1	V	27.0	21.9	46.0
745.253750	25.8	V	29.0	20.2	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1464.727273	37.5	H	-18.6	36.6	74.0
2198.363636	37.4	H	-15.7	36.6	74.0
4890.727273	39.8	H	-11.1	34.2	74.0
6967.000000	45.8	H	-6.6	28.2	74.0
8066.656250	46.9	H	-3.6	27.1	74.0
17979.718750	58.0	H	11.8	16.0	74.0
1147.272727	38.4	V	-19.7	35.6	74.0
1867.272727	38.3	V	-18.4	35.7	74.0
4890.727273	38.9	V	-11.1	35.2	74.0
6456.181818	44.7	V	-7.6	29.3	74.0
7333.093750	45.0	V	-6.3	29.1	74.0
17991.750000	59.6	V	12.0	14.4	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1464.727273	25.7	H	-18.6	28.4	54.0
2198.363636	29.2	H	-15.7	24.8	54.0
4890.727273	30.1	H	-11.1	23.9	54.0
6967.000000	35.5	H	-6.6	18.5	54.0
8066.656250	35.2	H	-3.6	18.8	54.0
17979.718750	47.8	H	11.8	6.2	54.0
1147.272727	28.1	V	-19.7	25.9	54.0
1867.272727	25.8	V	-18.4	28.2	54.0
4890.727273	29.9	V	-11.1	24.1	54.0
6456.181818	34.1	V	-7.6	19.9	54.0
7333.093750	36.8	V	-6.3	17.2	54.0
17991.750000	47.6	V	12.0	6.4	54.0

Figure 12: Radiated Spurious Emission, 2480MHz (With ICBL7.2-18-USBC-B1)


Limit and Margin
QP

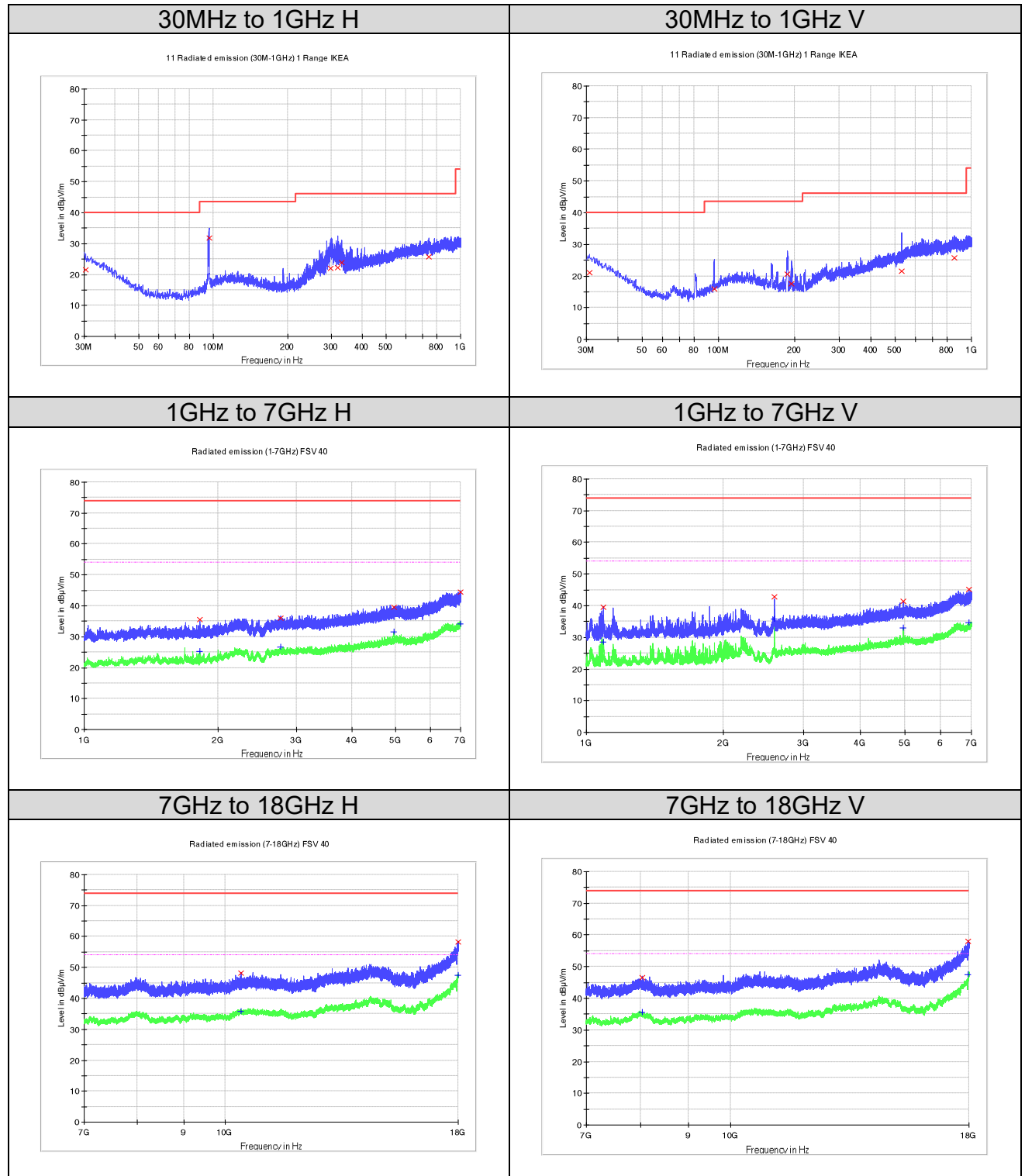
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	22.1	H	24.9	17.9	40.0
95.960000	31.3	H	16.6	12.2	43.5
280.987500	20.3	H	19.7	25.7	46.0
303.055000	23.8	H	20.7	22.2	46.0
321.363750	24.1	H	21.1	22.0	46.0
871.838750	25.8	H	28.6	20.2	46.0
30.970000	21.1	V	24.9	18.9	40.0
95.717500	17.5	V	16.5	26.0	43.5
260.860000	17.2	V	21.6	28.9	46.0
395.326250	19.0	V	22.9	27.0	46.0
558.407500	23.8	V	26.5	22.2	46.0
850.377500	26.0	V	28.9	20.0	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
2206.818182	38.9	H	-15.7	35.1	74.0
2561.090909	40.7	H	-15.9	33.3	74.0
4959.454546	39.2	H	-11.0	34.8	74.0
6972.727273	44.9	H	-6.5	29.1	74.0
8088.312500	46.4	H	-3.8	27.6	74.0
17994.500000	58.8	H	12.0	15.2	74.0
1084.000000	40.9	V	-19.8	33.1	74.0
2582.636364	44.5	V	-15.8	29.5	74.0
4961.363636	40.8	V	-11.0	33.2	74.0
6876.181818	45.3	V	-7.4	28.7	74.0
7985.875000	46.7	V	-3.3	27.3	74.0
17979.375000	58.6	V	11.8	15.4	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
2206.818182	29.0	H	-15.7	25.0	54.0
2561.090909	34.3	H	-15.9	19.8	54.0
4959.454546	33.0	H	-11.0	21.0	54.0
6972.727273	35.4	H	-6.5	18.6	54.0
8088.312500	35.5	H	-3.8	18.5	54.0
17994.500000	47.2	H	12.0	6.8	54.0
1084.000000	30.2	V	-19.8	23.8	54.0
2582.636364	36.0	V	-15.8	18.0	54.0
4961.363636	33.0	V	-11.0	21.0	54.0
6876.181818	34.1	V	-7.4	19.9	54.0
7985.875000	35.8	V	-3.3	18.3	54.0
17979.375000	47.8	V	11.8	6.2	54.0

Figure 13: Radiated Spurious Emission, 2480MHz, (With ICBL7.2-18-B1)


Limit and Margin
QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	21.5	H	25.2	18.5	40.0
95.960000	31.9	H	16.6	11.6	43.5
296.992500	21.9	H	20.5	24.1	46.0
317.605000	22.1	H	20.7	23.9	46.0
331.185000	23.9	H	21.4	22.1	46.0
745.132500	25.7	H	29.0	20.3	46.0
30.848750	21.2	V	25.0	18.9	40.0
95.960000	15.9	V	16.6	27.6	43.5
187.625000	20.7	V	15.8	22.8	43.5
194.900000	17.5	V	15.9	26.1	43.5
531.247500	21.6	V	25.1	24.4	46.0
854.863750	25.8	V	28.9	20.2	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1822.000000	35.5	H	-18.6	38.5	74.0
2757.454546	36.0	H	-15.2	38.0	74.0
4960.818182	39.5	H	-11.0	34.5	74.0
6990.181818	44.4	H	-6.3	29.6	74.0
10410.000000	48.2	H	-2.0	25.8	74.0
17991.406250	58.1	H	12.0	15.9	74.0
1088.636364	39.5	V	-19.8	34.5	74.0
2584.545455	42.7	V	-15.8	31.3	74.0
4959.454546	41.5	V	-11.0	32.5	74.0
6916.000000	45.1	V	-7.1	28.9	74.0
8043.968750	47.5	V	-3.5	26.5	74.0
17970.781250	58.0	V	11.6	16.0	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1822.000000	25.3	H	-18.6	28.7	54.0
2757.454546	26.7	H	-15.2	27.3	54.0
4960.818182	31.6	H	-11.0	22.4	54.0
6990.181818	34.0	H	-6.3	20.0	54.0
10410.000000	35.8	H	-2.0	18.2	54.0
17991.406250	47.6	H	12.0	6.4	54.0
1088.636364	28.6	V	-19.8	25.5	54.0
2584.545455	35.8	V	-15.8	18.2	54.0
4959.454546	32.9	V	-11.0	21.1	54.0
6916.000000	34.7	V	-7.1	19.3	54.0
8043.968750	35.5	V	-3.5	18.5	54.0
17970.781250	47.5	V	11.6	6.5	54.0

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