

TEST REPORT

For

Bluetooth low energy module

In conformity with

FCC Part 15C/ RSS-247 Issue 3

Model Name: HY0020
FCC ID: 2AQ85HY0020
ISED Cert No.: 31945- HY0020
Report No.: WE231124CB1-12
Issue Date: 21 Feb. 2024

Prepared forFDK CORPORATION
2281 Washizu Kosai-shi Shizuoka, Japan**Prepared by**SGS Japan Inc.
3-5-23, Kitayamata, Tsuzuki-ku, Yokohama, 224-0021, Japan
Telephone: +81+(0)50-1780-7880
FAX: +81+(0)45- 592-7506

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History

Report No.	Date	Revisions	Issued By
WE231124CB1-11	14 Feb. 2024	Initial Issue	N. Inokawa
WE231124CB1-12	21 Feb. 2024	Add section 2.8 for 15.203 Antenna requirement and update section 1.5	N. Inokawa

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1 General information

1.1 Product description from supplier

Test item	: Bluetooth low energy module
Manufacturer	: FDK CORPORATION
Address	: 2281 Washizu Kosai-shi Shizuoka, Japan
Model	: HY0020
FCC ID	: 2AQ85HY0020
ISED No.	: 31945- HY0020
Serial number	: 6 (for radiated test) : 3 (for conducted test)
Hardware version	: 1
Software version	: 1.2
Operating frequency	: 2402 - 2480 MHz
Modulation	: GFSK, Bluetooth Ver.5.4 LE
Antenna gain	: -4.5 dBi
Rated RF output power	: 4 dBm
Receipt date of EUT	: 15 Jan. 2024
Nominal power source voltages	: DC 3V

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1.2 Test(s) performed/ Summary of test result

Test specification(s)	: FCC CFR 47 Part 15 Subpart C (29 Sep. 2023) RSS-247 Issue 3
Test method(s)	: ANSI C63.10: 2013
Test(s) started	: 29 Jan. 2024
Test(s) completed	: 08 Feb. 2024
Summary of test result	: <u>Complied</u>

Note: The above judgment is only based on the measurement data and it does not include the measurement uncertainty. Accordingly, the statement below is applied to the test result.

The EUT complies with the limit required in the standard in case that the margin is not less than the measurement uncertainty in the Laboratory.

Compliance of the EUT is more probable than non-compliance is case that the margin is less than the measurement uncertainty in the Laboratory.

Test engineer

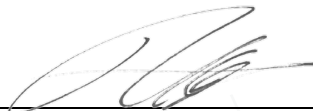
:



N. Inokawa
C&P Connectivity Wireless RF Lab

Reviewer

:



Y. Taki
Manager, C&P Connectivity Wireless

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1.3 Test facility

The Federal Communications Commission has reviewed the technical characteristics of the test facilities at SGS Japan Inc., located in 3-5-23, Kitayamata, Tsuzuki-ku, Yokohama, 224-0021, Japan, and has found these test facilities to be in compliance with the requirements of 47 CFR Part 15, section 2.948. The description of the test facilities has been filed under registration number JP5001 at the Office of the Federal Communications Commission. The facility has been added to the list of laboratories performing these test services for the public on a fee basis.

The list of all public test facilities is available on the Internet at <https://www.fcc.gov>.

Registered by Innovation, Science and Economic Development Canada (ISED):
The registered CAB identifier is JP0009.

Accredited by **National Voluntary Laboratory Accreditation Program (NVLAP)** for the emission tests stated in the scope of the certificate under Certificate Number 200780-0

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.



1.4 Measurement uncertainty

The treatment of uncertainty is based on the general matters on the definition of uncertainty in “Guide to the expression of uncertainty in measurement (GUM)” published by ISO. The Lab’s uncertainty is determined by referring ETSI TR 100 028-1 V1.4.1.

The uncertainty of the measurement result in the level of confidence of approximately 95% (k=2) is as follows;

AC Conducted emission	: ± 3.3 dB (150 kHz - 30 MHz)
Radiated emission	: ± 5.6 dB (9 kHz - 30 MHz)
	: ± 5.1 dB (30 MHz - 1000 MHz)
	: ± 4.2 dB (1 GHz - 6 GHz)
	: ± 4.3 dB (6 GHz - 18 GHz)
	: ± 4.8 dB (18 GHz - 26 GHz)

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1.5 Summary of test results

Requirement	Section in FCC	Section in RSS-247	Result	Section in this report
Occupied Bandwidth (99%)	2.1049	6.7 (RSS-Gen)	Complied	2.1
6 dB Bandwidth	15.247 (a)(2)	5.2 (a)	Complied	2.2
Maximum Conducted Output Power	15.247 (b)(3)	5.4 (d)	Complied	2.3
Power Spectral Density	15.247 (e)	5.2 (b)	Complied	2.4
Conducted Spurious Emissions	15.247(d)	5.5	Complied	2.5
Transmitter Radiated Emissions	15.247(d)/15.205(b) /15.209	8.9/8.10 (RSS-Gen)	Complied	2.6
AC power line conducted emissions	15.207	8.8 (RSS-Gen)	Complied	2.7
Antenna requirement	15.203	6.8 (RSS-Gen)	Complied	2.8

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1.6 Setup of equipment under test (EUT)

1.6.1 Test configuration of EUT

Equipment(s) under test

No.	Item	Manufacture	Model No.	Serial No.
1-1	Bluetooth low energy module	FDK CORPORATION	HY0020	6
1-2	Bluetooth low energy module	FDK CORPORATION	HY0020	3

Support equipment(s)

No.	Item	Manufacture	Model No.	Serial No.
2-1	Jig	FDK CORPORATION	-	Jig-1
2-2	Jig	FDK CORPORATION	-	3
3	PC	DELL	JJ31M A02	81Y1TZ1
4	AC adapter	DELL	LA65NS2-01	CN-0928G4-72438-21D-4AA1-A01
5	AC adapter	GO FORWARD ENTERPRISE	NP12-US0320	1612-L3

Connected cable(s)

No.	Item	From	To	Cable Shielded	Ferrite Core	Length [m]
A	Control signal cable	1	2	No	No	1.5
B	DC cable	2	5, DC	No	No	0.6
C	USB cable	2	3	Yes	No	0.5
D	DC cable	3	4	Yes	Yes	1.7
E	AC cable	4	AC	No	No	1.7
F	AC cable	5	AC	No	No	1.0

Test software

NrdkBLE_SerialProg2 ver. 1.0.0.0 with the following settings;

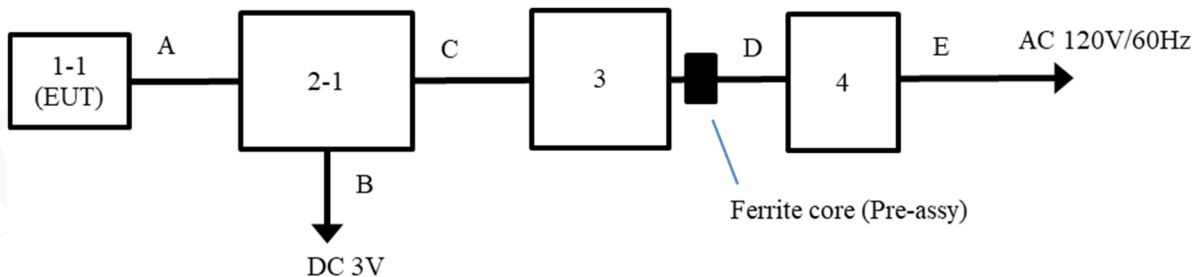
- Transmit on channel:00 (for Tx 2402MHz)
 19 (for Tx 2440MHz)
 39 (for Tx 2480MHz)
- Transmit power: +4 dBm
- Physical layer: LE 1M PHY (for 1Mbps data rate)
 LE 2M PHY (for 2Mbps data rate)
- Packet length: 255 Bytes (for 85% duty cycle setting in LE 1M PHY and 57% in LE 2M PHY)

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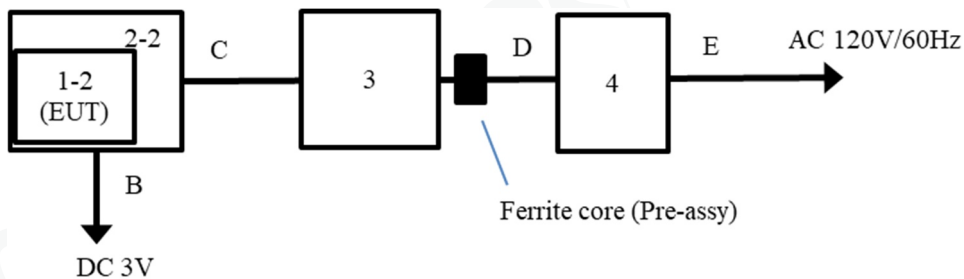
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1.6.2 Setup diagram of tested system

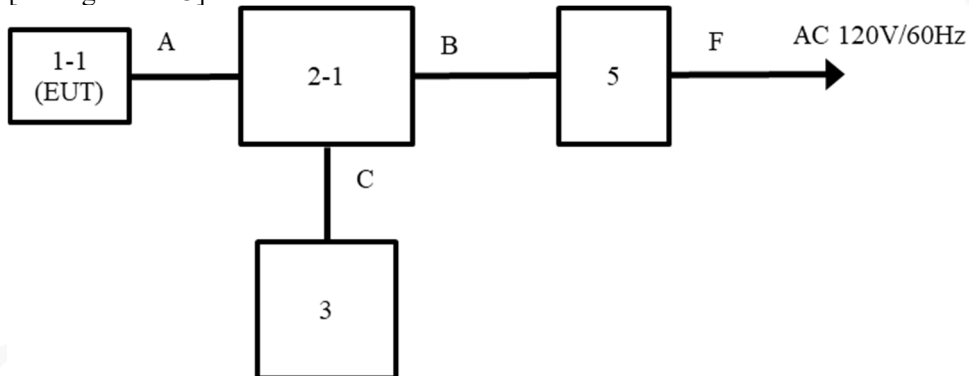
[Configuration 1]



[Configuration 2]



[Configuration 3]



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1.6.3 Operating condition

The following is the list of the test modes shown in this test report.

- Tx 2402MHz 1Mbps: The EUT is in continuous transmission mode at 2402MHz, 1Mbps
- Tx 2440MHz 1Mbps: The EUT is in continuous transmission mode at 2440MHz, 1Mbps
- Tx 2480MHz 1Mbps: The EUT is in continuous transmission mode at 2480MHz, 1Mbps
- Tx 2402MHz 2Mbps: The EUT is in continuous transmission mode at 2402MHz, 2Mbps
- Tx 2440MHz 2Mbps: The EUT is in continuous transmission mode at 2440MHz, 2Mbps
- Tx 2480MHz 2Mbps: The EUT is in continuous transmission mode at 2480MHz, 2Mbps

1.7 Equipment modifications

No modifications have been made to the equipment in order to achieve compliance with the applicable standards described in clause 1.2.

1.8 Deviation from the standard

No deviations from the standards described in clause 1.2.

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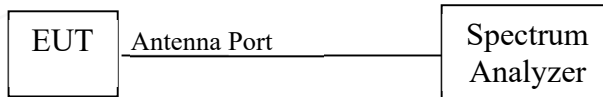
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2 Test procedure and test data

2.1 Occupied Bandwidth (99%)

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 6.9.3

- RBW : 1 to 5 % of OBW
- VBW > 3 x RBW
- Span : OBW x 1.5 to 5
- Trace : Max hold

Limitation

There are no limitations.

The measurement value is used for the emission designator.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-
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Test results

Configuration: 2

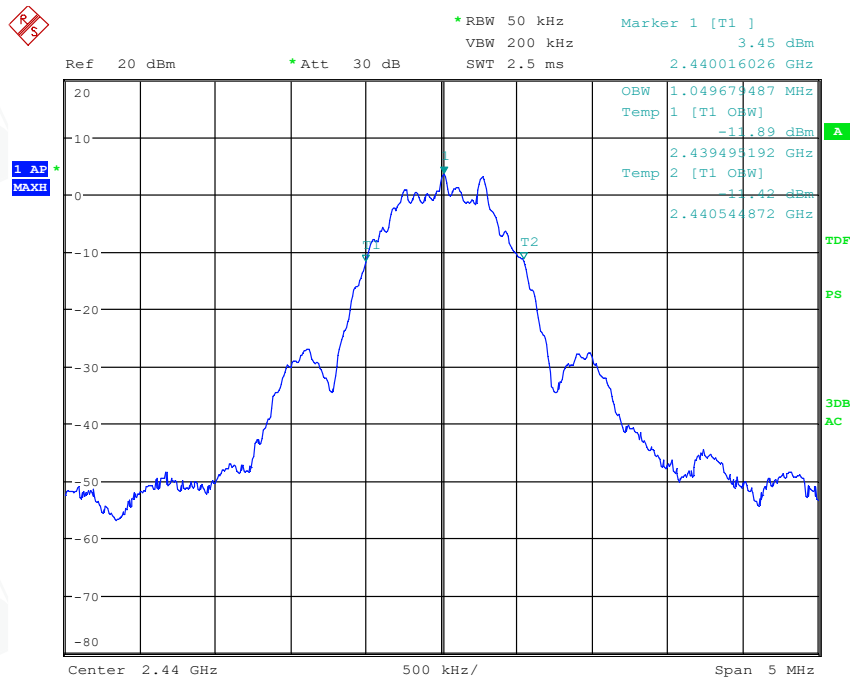
Transmission Frequency [MHz]	Data Rate	Occupied Bandwidth [kHz]
2402	1Mbps	1050
2440	1Mbps	1050
2480	1Mbps	1050
2402	2Mbps	2067
2440	2Mbps	2067
2480	2Mbps	2075

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[Chart]

Operating condition: Tx 2440MHz 1Mbps



Tested Date: 04 Feb. 2024
 Humidity: 27 %

Temperature: 20 degC
 Atmos. Press: 1021 hPa

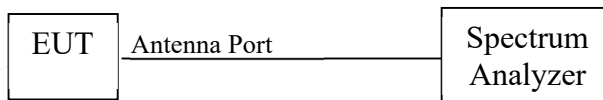
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2.2 6dB Bandwidth

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 11.8

- RBW : 100 kHz
- VBW: 300 kHz
- Detector : Peak
- Trace : Max hold

Applicable rule and limitation

FCC 15.247 (a)(2)
 RSS-247 5.2 (a)

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

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-
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Test results - Complied with requirement

Test data

Configuration: 2

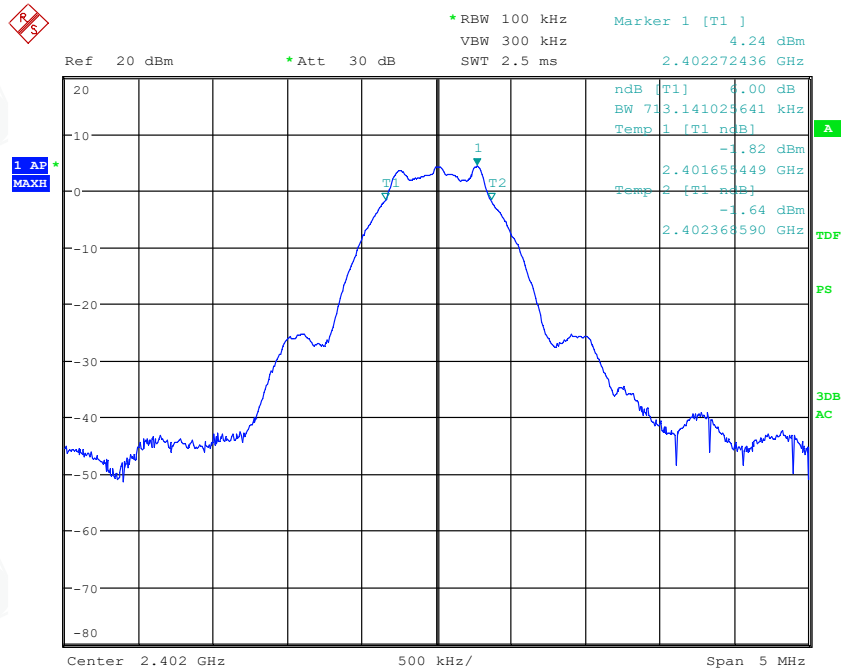
Transmission Frequency [MHz]	Data Rate	6dB Bandwidth [kHz]	Result
2402	1Mbps	713.1	Pass
2440	1Mbps	721.2	Pass
2480	1Mbps	713.1	Pass
2402	2Mbps	1169.9	Pass
2440	2Mbps	1169.9	Pass
2480	2Mbps	1169.9	Pass

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[Chart]

Operating condition: Tx 2402MHz 1Mbps



Tested Date: 04 Feb. 2024
 Humidity: 27 %

Temperature: 20 degC
 Atmos. Press: 1021 hPa

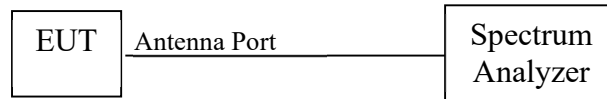
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2.3 Maximum Peak Conducted Output Power

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 11.9.1

- RBW > 6dB BW
- Span > 3 x RBW
- Trace : Max hold
- VBW > 3 x RBW
- Detector : Peak

Applicable rule and limitation

- FCC 15.247 (b)(3)
- RSS-247 5.4 (d)

The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt (30 dBm).

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-
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Test results - Complied with requirement

Test Data

Configuration: 2

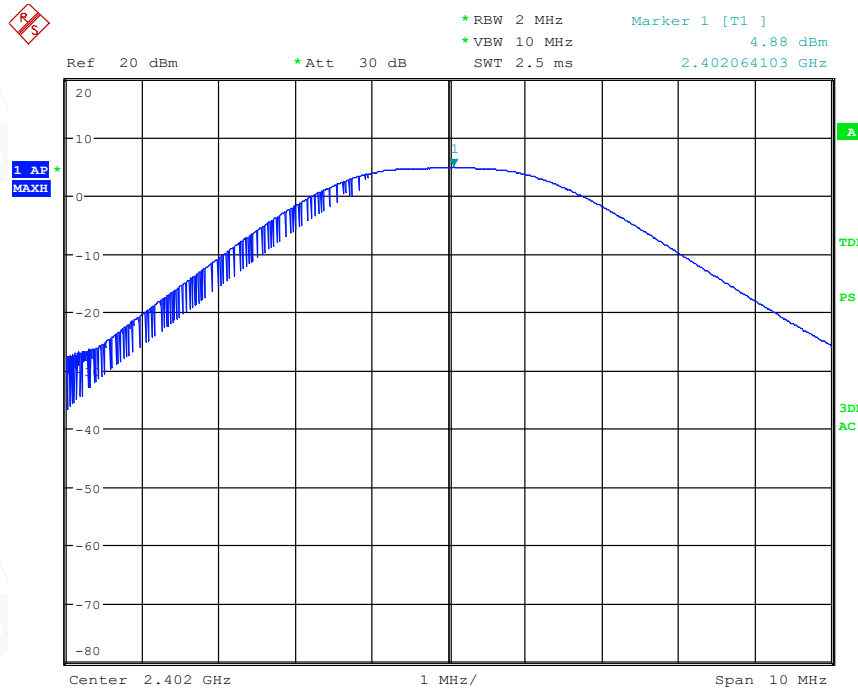
Transmission Frequency [MHz]	Data Rate	Output Power [dBm]	Result
2402	1Mbps	4.80	Pass
2440	1Mbps	4.59	Pass
2480	1Mbps	4.69	Pass
2402	2Mbps	4.88	Pass
2440	2Mbps	4.63	Pass
2480	2Mbps	4.69	Pass

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[Chart]

Operating condition: Tx 2402MHz 2Mbps



Tested Date: 04 Feb. 2024 Temperature: 20 degC
 Humidity: 27 % Atmos. Press: 1021 hPa

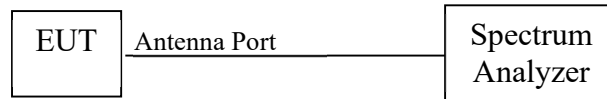
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2.4 Power Spectral Density

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 11.10.2

- RBW: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$.
- Span > 1.5 x 6dB BW
- Trace : Max hold
- VBW > 3 x RBW
- Detector: Peak

Applicable rule and limitation

FCC 15.247 (e)
 RSS-247 5.2 (b)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-
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Test results - Complied with requirement

Test Data

Configuration: 2

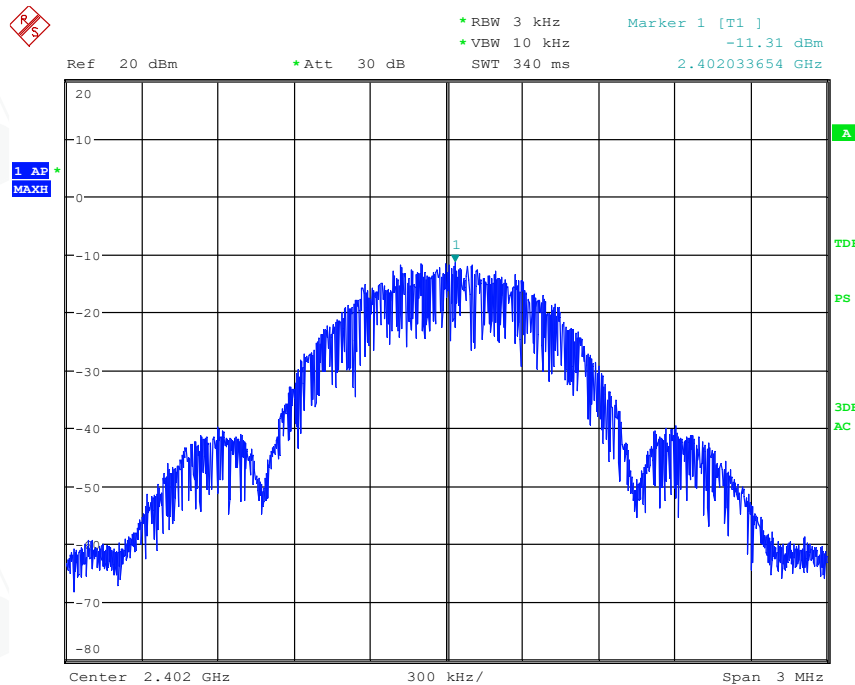
Transmission Frequency [MHz]	Data Rate	Power Spectral Density [dBm/3kHz]	Result
2402	1Mbps	-11.31	Pass
2440	1Mbps	-11.56	Pass
2480	1Mbps	-11.51	Pass
2402	2Mbps	-13.45	Pass
2440	2Mbps	-13.66	Pass
2480	2Mbps	-13.66	Pass

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[Chart]

Operating condition: Tx 2402MHz 1Mbps



Tested Date: 04 Feb. 2024
 Humidity: 27 %

Temperature: 20 degC
 Atmos. Press: 1021 hPa

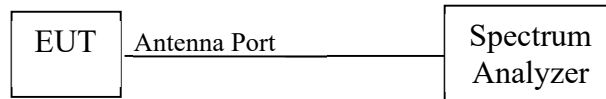
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2.5 Conducted Spurious Emissions

Test setup

The test setup is shown below. The antenna port of EUT was connected to the spectrum analyzer.



Test procedure

Spectrum analyzer is set as below according to ANSI C63.10 clause 11.11

- RBW : 100 kHz
- VBW : 300 kHz
- Detector : Peak
- Trace : Max hold

Limitation

FCC 15.247 (d)
 RSS-247 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test equipment used (refer to List of utilized test equipment)

TR06	CL31	-	-
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Test results - Complied with requirement

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Test Data

Configuration: 2

Operating mode: Tx 2402MHz 1Mbps

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2399.55	-45.06	4.34	-15.66
2400.00	-45.49	4.34	-15.66
4803.47	-41.32	4.34	-15.66
7205.20	-30.54	4.34	-15.66

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2440MHz 1Mbps

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
4880.07	-40.33	4.21	-15.79
7320.00	-32.42	4.21	-15.79

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2480MHz 1Mbps

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.50	-45.91	4.27	-15.73
4960.00	-41.67	4.27	-15.73
7440.73	-34.39	4.27	-15.73

Note: All other emissions have more than 20 dB margin.

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Operating mode: Tx 2402MHz 2Mbps

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2400.00	-27.48	4.36	-15.64
4805.07	-43.83	4.36	-15.64
7207.53	-30.84	4.36	-15.64

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2440MHz 2Mbps

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
4880.07	-43.80	4.19	-15.81
7320.00	-32.80	4.19	-15.81

Note: All other emissions have more than 20 dB margin.

Operating mode: Tx 2478MHz 2Mbps

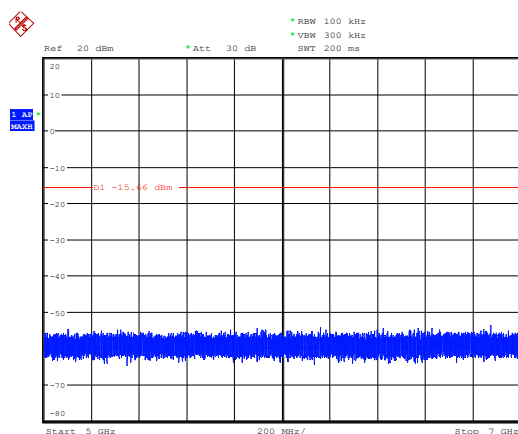
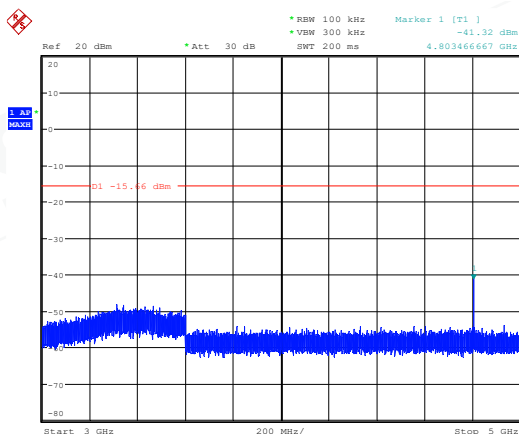
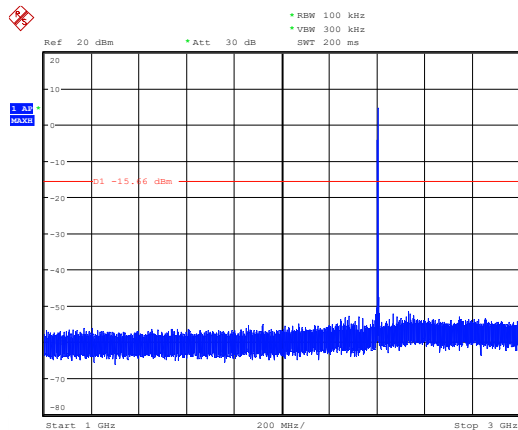
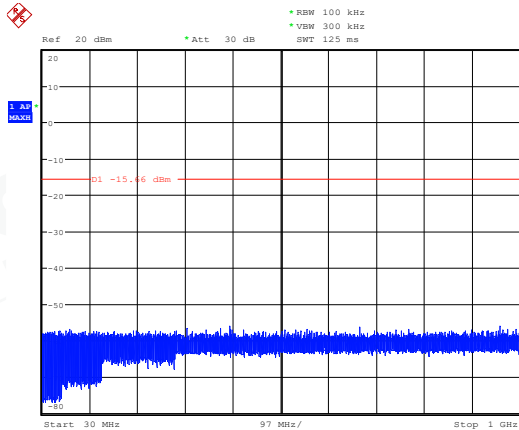
Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.50	-45.86	4.22	-15.78
2484.03	-44.92	4.22	-15.78
4959.07	-43.68	4.22	-15.78
7440.00	-34.44	4.22	-15.78

Note: All other emissions have more than 20 dB margin.

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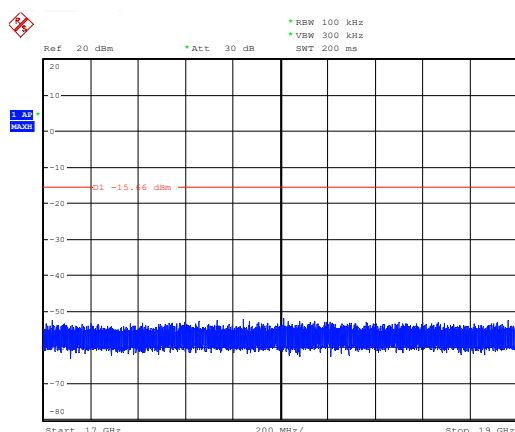
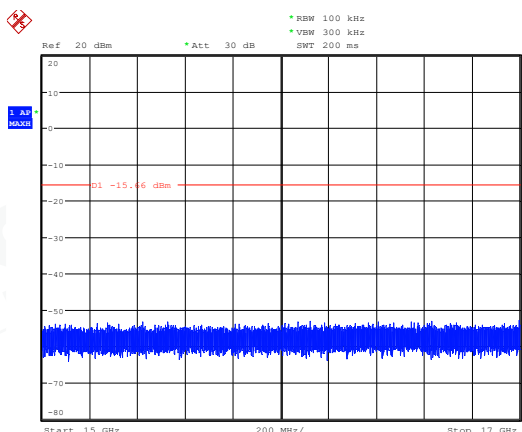
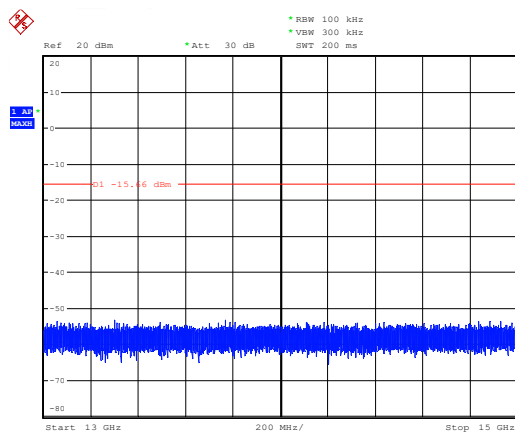
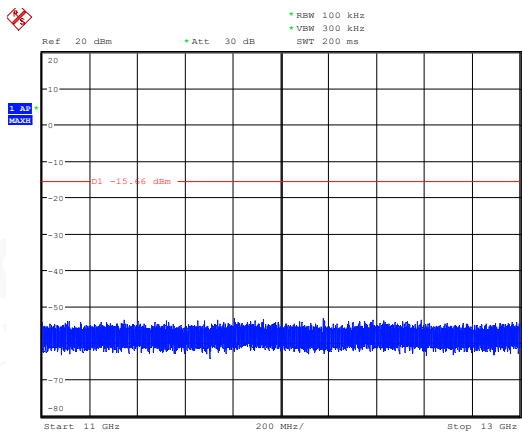
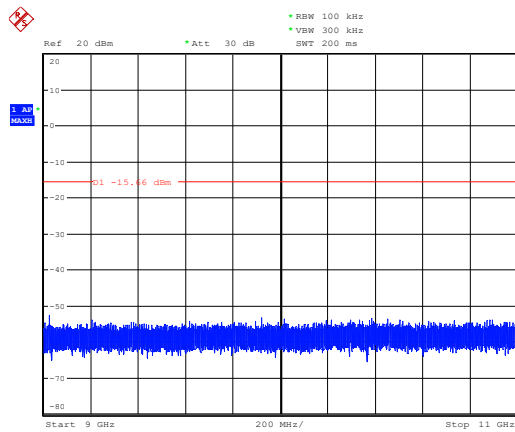
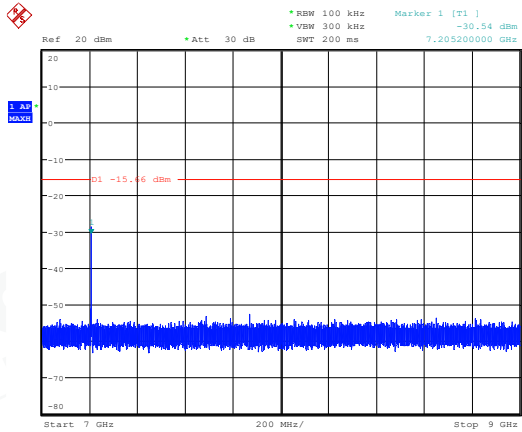
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[Chart] Tx 2402MHz 1Mbps



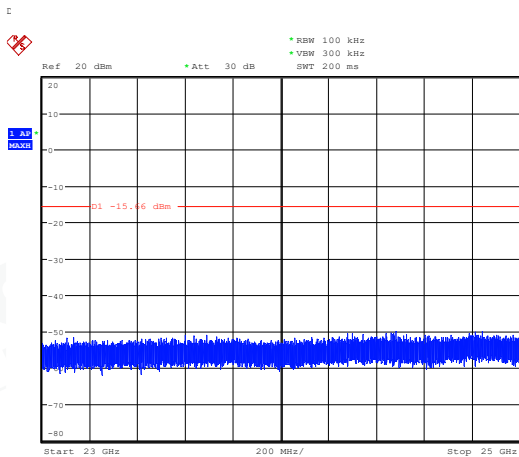
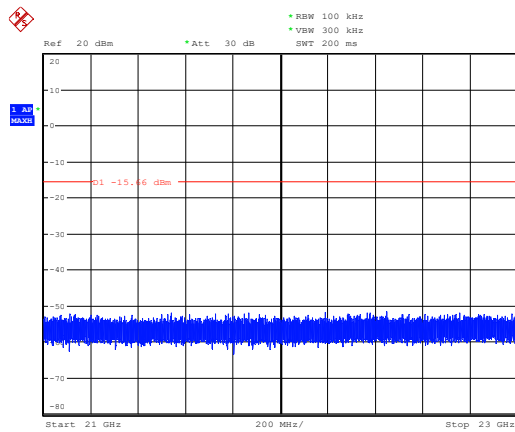
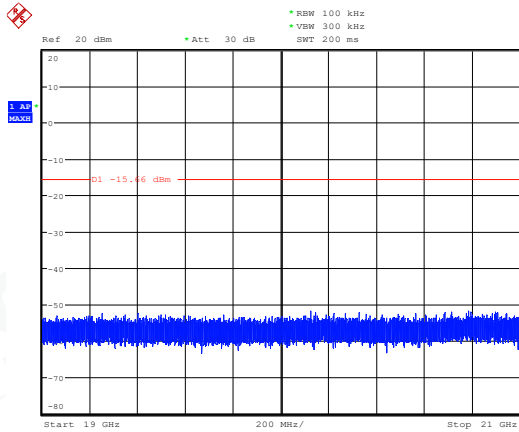
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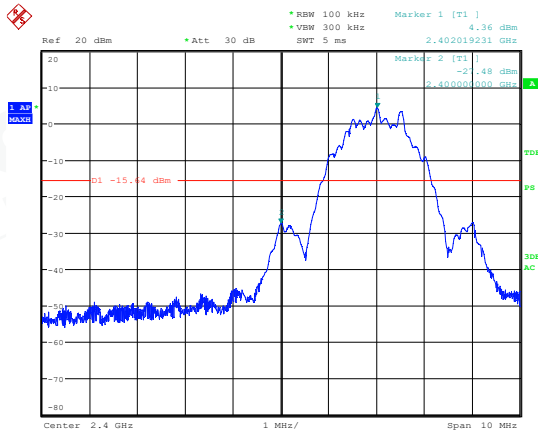


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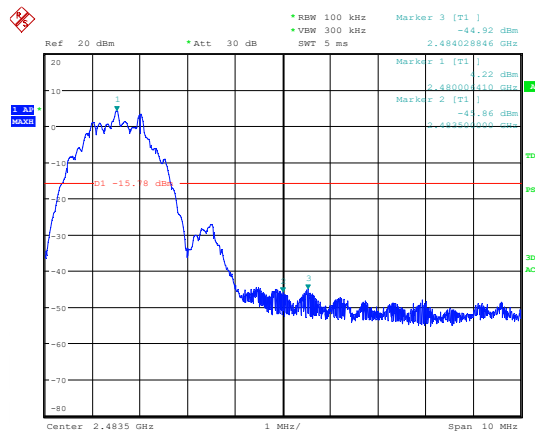
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[Band edge]

Tx 2402MHz 2Mbps



Tx 2480MHz 2Mbps



Tested Date: 04 Feb. 2024
 Humidity: 27 %

Temperature: 20 degC
 Atmos. Press: 1021 hPa

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2.6 Radiated emissions (for restricted frequency band)

Test setup

Test setup was implemented according to the method of ANSI C63.10 clause 6 .

Test procedure

Measurement procedures were implemented according to the method of ANSI C63.10 clauses 6.
 The test receiver is set as below

[9 - 150 kHz]

RBW: 200 Hz, Detector: QP

[150 kHz - 30 MHz]

RBW: 9 kHz, Detector: QP

[30 - 1000 MHz]

RBW: 120 kHz, Detector: QP

[above 1000 MHz]

RBW: 1 MHz, Detector: Ave/PK

Applicable rule and limitation

RSS-Gen 8.10

FCC 15.205 restricted bands of operation

Except as shown in paragraph 15.205 (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.490 - 0.510	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	38.6 -

The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in FCC 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in FCC 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions.

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FCC 15.209 / RSS-Gen 8.9 Field strength limits

Frequency [MHz]	Field Strength [$\mu\text{V/m}$]	Measurement Distance [m]	Field Strength [$\text{dB}\mu\text{V/m}$]
30 – 88	100	3	40.0
88 – 216	150	3	43.5
216 – 960	200	3	46.0
Above 960	500	3	53.9

In the emission table above, the tighter limit applies at the band edges.

The emission limits shown in the above table are based on measurements employing a quasi-peak detector.

Test results - Complied with requirement

Test equipment used (refer to List of utilized test equipment)

AC01	CL11	TR06	PR21	BA07	CL38	CL39	PR12
DH06	LP06	CL31	BRF12	HPF11	LPF1	AT17	AT33
SH01	SH05	-	-	-	-	-	-

Test software used

EMI1 Ver. 6.1

Calculation method

The Correction Factor and Result are calculated as followings.

$$\text{Correction Factor [dB/m]} = \text{Ant. Factor [dB/m]} + \text{Loss [dB]} - \text{Gain [dB]}$$

$$\text{Result [dB}\mu\text{V/m]} = \text{Reading [dB}\mu\text{V]} + \text{Correction Factor [dB/m]}$$

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Test Data (below 1000MHz)

Configuration: 1

Operating mode: Tx 2402MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	921.075	20.7	20.7	13.2	29.0	25.6	46.0	20.4	Hori.
2	956.478	20.7	21.0	13.4	28.6	26.5	46.0	19.5	Hori.
3	722.606	21.4	19.1	12.2	30.2	22.5	46.0	23.5	Vert.
4	817.310	20.9	20.0	12.7	29.9	23.7	46.0	22.3	Vert.
5	941.004	20.8	20.8	13.4	28.8	26.2	46.0	19.8	Vert.
6	954.821	20.7	21.0	13.4	28.6	26.5	46.0	19.5	Vert.

Operating mode: Tx 2402MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	876.412	20.7	20.3	13.0	29.4	24.6	46.0	21.4	Hori.
2	922.273	20.7	20.7	13.2	29.0	25.6	46.0	20.4	Hori.
3	950.698	20.7	20.9	13.4	28.7	26.3	46.0	19.7	Hori.
4	888.150	20.5	20.4	13.0	29.3	24.6	46.0	21.4	Vert.
5	908.468	20.6	20.5	13.2	29.1	25.2	46.0	20.8	Vert.
6	937.800	20.8	20.8	13.3	28.8	26.1	46.0	19.9	Vert.

Operating mode: Tx 2402MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	814.617	20.9	19.9	12.7	29.9	23.6	46.0	22.4	Hori.
2	947.796	20.7	20.9	13.4	28.7	26.3	46.0	19.7	Hori.
3	952.649	20.7	20.9	13.4	28.6	26.4	46.0	19.6	Hori.
4	765.477	21.2	19.5	12.4	30.1	23.0	46.0	23.0	Vert.
5	945.635	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Vert.
6	953.006	20.7	20.9	13.4	28.6	26.4	46.0	19.6	Vert.

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Operating mode: Tx 2440MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	734.654	21.4	19.2	12.3	30.2	22.7	46.0	23.3	Hori.
2	821.285	20.9	20.0	12.7	29.9	23.7	46.0	22.3	Hori.
3	833.851	21.0	20.1	12.8	29.8	24.1	46.0	21.9	Hori.
4	958.009	20.7	21.0	13.5	28.6	26.6	46.0	19.4	Hori.
5	653.583	21.2	18.7	11.9	30.2	21.6	46.0	24.4	Vert.
6	834.311	21.0	20.1	12.8	29.8	24.1	46.0	21.9	Vert.

Operating mode: Tx 2440MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	647.723	21.3	18.7	11.8	30.2	21.6	46.0	24.4	Hori.
2	825.611	21.0	20.0	12.7	29.9	23.8	46.0	22.2	Hori.
3	948.690	20.7	20.9	13.4	28.7	26.3	46.0	19.7	Hori.
4	540.089	21.4	17.8	11.4	30.1	20.5	46.0	25.5	Vert.
5	719.589	21.4	19.1	12.2	30.2	22.5	46.0	23.5	Vert.
6	936.357	20.8	20.8	13.3	28.8	26.1	46.0	19.9	Vert.

Operating mode: Tx 2440MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	619.160	21.2	18.6	11.7	30.2	21.3	46.0	24.7	Hori.
2	838.220	21.0	20.1	12.8	29.8	24.1	46.0	21.9	Hori.
3	919.768	20.7	20.6	13.2	29.0	25.5	46.0	20.5	Hori.
4	951.109	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Hori.
5	819.685	20.9	20.0	12.7	29.9	23.7	46.0	22.3	Vert.
6	937.740	20.8	20.8	13.3	28.8	26.1	46.0	19.9	Vert.

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Operating mode: Tx 2480MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	807.465	20.9	19.9	12.6	30.0	23.4	46.0	22.6	Hori.
2	908.463	20.6	20.5	13.2	29.1	25.2	46.0	20.8	Hori.
3	921.837	20.7	20.7	13.2	29.0	25.6	46.0	20.4	Hori.
4	949.747	20.7	20.9	13.4	28.7	26.3	46.0	19.7	Hori.
5	861.315	20.9	20.2	12.9	29.6	24.4	46.0	21.6	Vert.
6	942.995	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Vert.

Operating mode: Tx 2480MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	807.465	20.9	19.9	12.6	30.0	23.4	46.0	22.6	Hori.
2	908.463	20.6	20.5	13.2	29.1	25.2	46.0	20.8	Hori.
3	921.837	20.7	20.7	13.2	29.0	25.6	46.0	20.4	Hori.
4	949.747	20.7	20.9	13.4	28.7	26.3	46.0	19.7	Hori.
5	861.315	20.9	20.2	12.9	29.6	24.4	46.0	21.6	Vert.
6	942.995	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Vert.

Operating mode: Tx 2480MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	788.369	21.1	19.7	12.5	30.1	23.2	46.0	22.8	Hori.
2	869.816	20.7	20.3	13.0	29.5	24.5	46.0	21.5	Hori.
3	955.326	20.7	21.0	13.4	28.6	26.5	46.0	19.5	Hori.
4	523.903	21.5	17.5	11.3	30.1	20.2	46.0	25.8	Vert.
5	885.789	20.6	20.4	13.0	29.4	24.6	46.0	21.4	Vert.
6	955.772	20.8	21.0	13.4	28.6	26.6	46.0	19.4	Vert.

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Operating mode: Tx 2402MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	704.228	21.3	18.9	12.1	30.2	22.1	46.0	23.9	Hori.
2	822.246	20.9	20.0	12.7	29.9	23.7	46.0	22.3	Hori.
3	954.110	20.7	21.0	13.4	28.6	26.5	46.0	19.5	Hori.
4	43.385	23.0	16.3	7.1	30.4	16.0	40.0	24.0	Vert.
5	761.338	21.2	19.5	12.4	30.2	22.9	46.0	23.1	Vert.
6	944.393	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Vert.

Operating mode: Tx 2402MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	835.510	21.0	20.1	12.8	29.8	24.1	46.0	21.9	Hori.
2	904.536	20.6	20.5	13.1	29.2	25.0	46.0	21.0	Hori.
3	933.652	20.8	20.8	13.3	28.8	26.1	46.0	19.9	Hori.
4	950.936	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Hori.
5	927.347	20.8	20.7	13.3	28.9	25.9	46.0	20.1	Vert.
6	957.995	20.7	21.0	13.5	28.6	26.6	46.0	19.4	Vert.

Operating mode: Tx 2402MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	822.024	21.0	20.0	12.7	29.9	23.8	46.0	22.2	Hori.
2	898.205	20.6	20.5	13.1	29.2	25.0	46.0	21.0	Hori.
3	948.558	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Hori.
4	861.263	20.9	20.2	12.9	29.6	24.4	46.0	21.6	Vert.
5	915.872	20.7	20.6	13.2	29.0	25.5	46.0	20.5	Vert.
6	945.698	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Vert.

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Operating mode: Tx 2440MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	845.635	21.0	20.1	12.8	29.7	24.2	46.0	21.8	Hori.
2	903.097	20.6	20.5	13.1	29.2	25.0	46.0	21.0	Hori.
3	957.680	20.7	21.0	13.5	28.6	26.6	46.0	19.4	Hori.
4	690.871	21.3	18.8	12.1	30.2	22.0	46.0	24.0	Vert.
5	922.668	20.7	20.7	13.2	29.0	25.6	46.0	20.4	Vert.
6	955.945	20.7	21.0	13.4	28.6	26.5	46.0	19.5	Vert.

Operating mode: Tx 2440MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	911.397	20.7	20.6	13.2	29.1	25.4	46.0	20.6	Hori.
2	935.383	20.8	20.8	13.3	28.8	26.1	46.0	19.9	Hori.
3	948.864	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Hori.
4	856.535	21.0	20.2	12.9	29.6	24.5	46.0	21.5	Vert.
5	943.344	20.9	20.9	13.4	28.7	26.5	46.0	19.5	Vert.
6	959.420	20.7	21.0	13.5	28.6	26.6	46.0	19.4	Vert.

Operating mode: Tx 2440MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	838.143	21.0	20.1	12.8	29.8	24.1	46.0	21.9	Hori.
2	888.130	20.7	20.4	13.0	29.3	24.8	46.0	21.2	Hori.
3	949.036	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Hori.
4	769.551	21.3	19.6	12.5	30.1	23.3	46.0	22.7	Vert.
5	880.635	20.7	20.4	13.0	29.4	24.7	46.0	21.3	Vert.
6	944.139	20.9	20.9	13.4	28.7	26.5	46.0	19.5	Vert.

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Operating mode: Tx 2480MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	892.447	20.6	20.4	13.1	29.3	24.8	46.0	21.2	Hori.
2	925.337	20.7	20.7	13.3	28.9	25.8	46.0	20.2	Hori.
3	952.539	20.8	20.9	13.4	28.6	26.5	46.0	19.5	Hori.
4	890.599	20.6	20.4	13.1	29.3	24.8	46.0	21.2	Vert.
5	938.628	20.8	20.8	13.3	28.8	26.1	46.0	19.9	Vert.
6	954.268	20.7	21.0	13.4	28.6	26.5	46.0	19.5	Vert.

Operating mode: Tx 2480MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	737.071	21.4	19.2	12.3	30.2	22.7	46.0	23.3	Hori.
2	890.651	20.8	20.4	13.1	29.3	25.0	46.0	21.0	Hori.
3	945.233	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Hori.
4	837.162	21.0	20.1	12.8	29.8	24.1	46.0	21.9	Vert.
5	925.065	20.8	20.7	13.3	28.9	25.9	46.0	20.1	Vert.
6	947.693	20.8	20.9	13.4	28.7	26.4	46.0	19.6	Vert.

Operating mode: Tx 2480MHz 2Mbps Z-plane

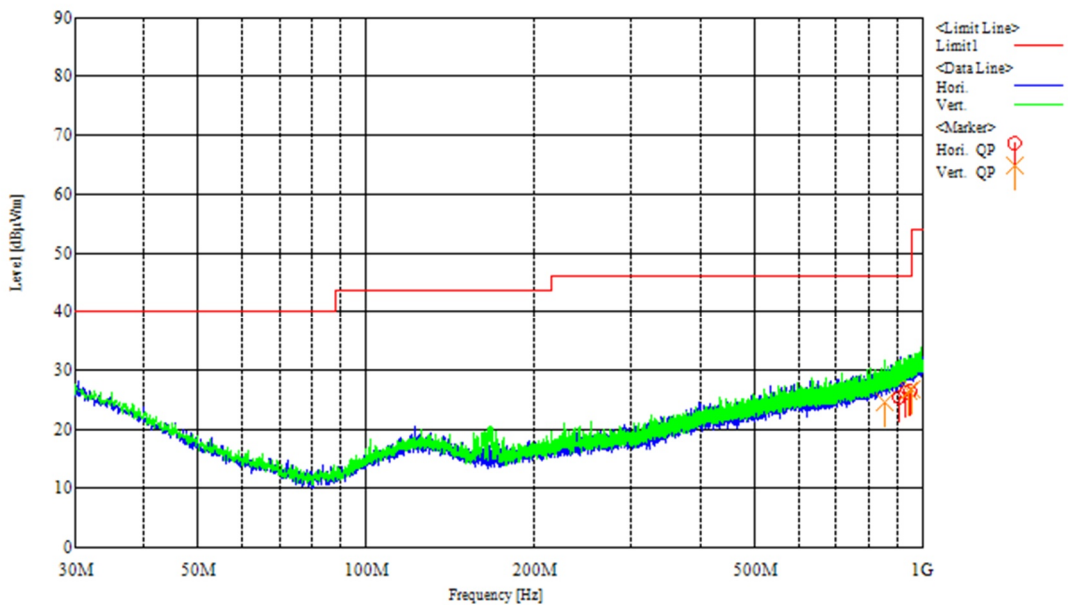
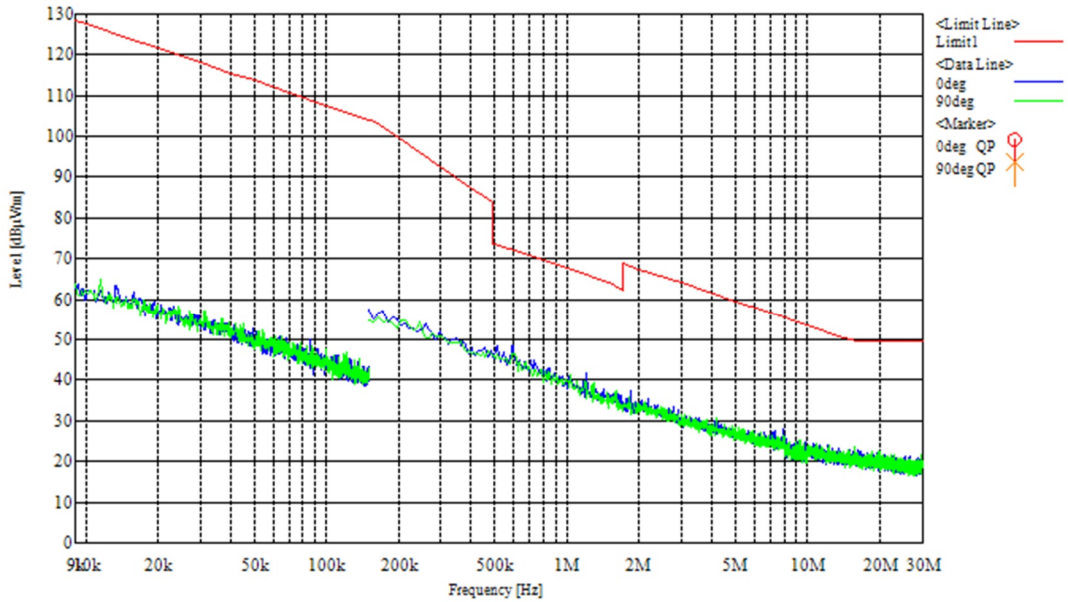
[Emission level]

No.	Frequency [MHz]	Reading [dBμV]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Ant.
1	848.380	21.0	20.2	12.8	29.7	24.3	46.0	21.7	Hori.
2	926.578	20.7	20.7	13.3	28.9	25.8	46.0	20.2	Hori.
3	943.052	20.9	20.9	13.4	28.7	26.5	46.0	19.5	Hori.
4	836.346	21.1	20.1	12.8	29.8	24.2	46.0	21.8	Vert.
5	890.101	20.7	20.4	13.1	29.3	24.9	46.0	21.1	Vert.
6	958.961	20.7	21.0	13.5	28.6	26.6	46.0	19.4	Vert.

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[Chart] Tx 2440MHz 2Mbps Y-plane



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[Day1]

Tested Date:	29 Jan. 2024	Temperature:	21 degC
Humidity:	24 %	Atmos. Press:	1025 hPa

[Day2]

Tested Date:	30 Jan. 2024	Temperature:	18 degC
Humidity:	25 %	Atmos. Press:	1027 hPa

[Day3]

Tested Date:	08 Feb. 2024	Temperature:	18 degC
Humidity:	35 %	Atmos. Press:	1015 hPa

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Test Data (above 1000MHz)

Configuration: 1

Operating mode: Tx 2402MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.564	47.0	37.0	2.3	49.3	40.7	73.9	53.9	24.6	13.2	Hori.
2	4803.859	44.8	34.9	2.3	47.1	38.6	73.9	53.9	26.8	15.3	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2402MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.957	47.1	38.5	2.3	49.4	42.2	73.9	53.9	24.5	11.7	Hori.
2	4804.084	45.2	34.8	2.3	47.5	38.5	73.9	53.9	26.4	15.4	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2402MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.043	44.7	34.1	2.3	47.0	37.8	73.9	53.9	26.9	16.1	Hori.
2	2338.024	45.8	34.5	-4.0	41.8	31.9	73.9	53.9	32.1	22.0	Vert.
3	4804.147	45.8	35.6	2.3	48.1	39.3	73.9	53.9	25.8	14.6	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

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Operating mode: Tx 2440MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4879.548	45.8	34.6	2.6	48.4	38.6	73.9	53.9	25.5	15.3	Hori.
2	7319.399	45.6	34.9	6.9	52.5	43.2	73.9	53.9	21.4	10.7	Hori.
3	4879.588	44.1	32.3	2.6	46.7	36.3	73.9	53.9	27.2	17.6	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2440MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4879.631	45.9	36.0	2.6	48.5	40.0	73.9	53.9	25.4	13.9	Hori.
2	7319.390	45.2	34.3	6.9	52.1	42.6	73.9	53.9	21.8	11.3	Hori.
3	4879.582	43.8	31.8	2.6	46.4	35.8	73.9	53.9	27.5	18.1	Vert.
4	7319.359	44.4	33.0	6.9	51.3	41.3	73.9	53.9	22.6	12.6	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2440MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2376.033	45.8	33.7	-3.6	42.2	31.5	73.9	53.9	31.7	22.4	Vert.
2	4879.636	43.6	31.8	2.6	46.2	35.8	73.9	53.9	27.7	18.1	Vert.
3	7319.410	43.9	32.3	6.9	50.8	40.6	73.9	53.9	23.1	13.3	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

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Operating mode: Tx 2480MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.943	44.9	34.9	2.9	47.8	39.2	73.9	53.9	26.1	14.7	Hori.
2	7439.438	45.5	35.3	7.0	52.5	43.7	73.9	53.9	21.4	10.2	Hori.
3	4960.125	43.0	31.2	2.9	45.9	35.5	73.9	53.9	28.0	18.4	Vert.
4	7439.480	43.2	31.4	7.0	50.2	39.8	73.9	53.9	23.7	14.1	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2480MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.565	46.2	35.5	2.9	49.1	39.8	73.9	53.9	24.8	14.1	Hori.
2	7439.413	46.3	35.6	7.0	53.3	44.0	73.9	53.9	20.6	9.9	Hori.
3	4959.628	44.0	31.9	2.9	46.9	36.2	73.9	53.9	27.0	17.7	Vert.
4	7439.345	44.2	32.6	7.0	51.2	41.0	73.9	53.9	22.7	12.9	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2480MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4960.007	44.1	32.0	2.9	47.0	36.3	73.9	53.9	26.9	17.6	Vert.
2	7439.404	45.3	34.0	7.0	52.3	42.4	73.9	53.9	21.6	11.5	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 1.4dB was added to the average result as the duty cycle compensation (85%).

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Operating mode: Tx 2402MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.211	46.7	33.8	2.2	48.9	40.9	73.9	53.9	25.0	13.0	Hori.
2	4804.051	44.1	30.6	2.3	46.4	37.8	73.9	53.9	27.5	16.1	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2402MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.047	47.3	34.0	2.3	49.6	41.2	73.9	53.9	24.3	12.7	Hori.
2	4803.071	44.6	31.4	2.2	46.8	38.5	73.9	53.9	27.1	15.4	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2402MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.028	43.6	30.6	2.3	45.9	37.8	73.9	53.9	28.0	16.1	Hori.
2	2338.088	45.4	32.6	-4.0	41.4	33.5	73.9	53.9	32.5	20.4	Vert.
3	4804.128	45.5	31.8	2.3	47.8	39.0	73.9	53.9	26.1	14.9	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

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Operating mode: Tx 2440MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4879.064	46.0	32.4	2.6	48.6	39.9	73.9	53.9	25.3	14.0	Hori.
2	7321.307	45.2	31.9	7.0	52.2	43.8	73.9	53.9	21.7	10.1	Hori.
3	4879.031	43.6	30.1	2.6	46.2	37.6	73.9	53.9	27.7	16.3	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2440MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4879.063	46.2	33.1	2.6	48.8	40.6	73.9	53.9	25.1	13.3	Hori.
2	7321.260	44.6	31.7	7.0	51.6	43.6	73.9	53.9	22.3	10.3	Hori.
3	4879.089	43.8	30.0	2.6	46.4	37.5	73.9	53.9	27.5	16.4	Vert.
4	7321.299	43.7	30.8	7.0	50.7	42.7	73.9	53.9	23.2	11.2	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2440MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4879.033	43.5	29.9	2.6	46.1	37.4	73.9	53.9	27.8	16.5	Vert.
2	7321.298	44.3	31.4	7.0	51.3	43.3	73.9	53.9	22.6	10.6	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

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Operating mode: Tx 2480MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4960.038	45.4	31.5	2.9	48.3	39.3	73.9	53.9	25.6	14.6	Hori.
2	7438.788	45.9	33.3	7.0	52.9	45.2	73.9	53.9	21.0	8.7	Hori.
3	4960.016	42.9	29.4	2.9	45.8	37.2	73.9	53.9	28.1	16.7	Vert.
4	7438.738	43.9	30.4	7.0	50.9	42.3	73.9	53.9	23.0	11.6	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2480MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4960.042	45.8	32.2	2.9	48.7	40.0	73.9	53.9	25.2	13.9	Hori.
2	7438.694	45.9	32.7	7.0	52.9	44.6	73.9	53.9	21.0	9.3	Hori.
3	4960.058	43.2	29.9	2.9	46.1	37.7	73.9	53.9	27.8	16.2	Vert.
4	7438.718	44.6	31.5	7.0	51.6	43.4	73.9	53.9	22.3	10.5	Vert.

Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2480MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4960.015	44.4	29.9	2.9	47.3	37.7	73.9	53.9	26.6	16.2	Vert.
2	7438.696	45.0	31.9	7.0	52.0	43.8	73.9	53.9	21.9	10.1	Vert.

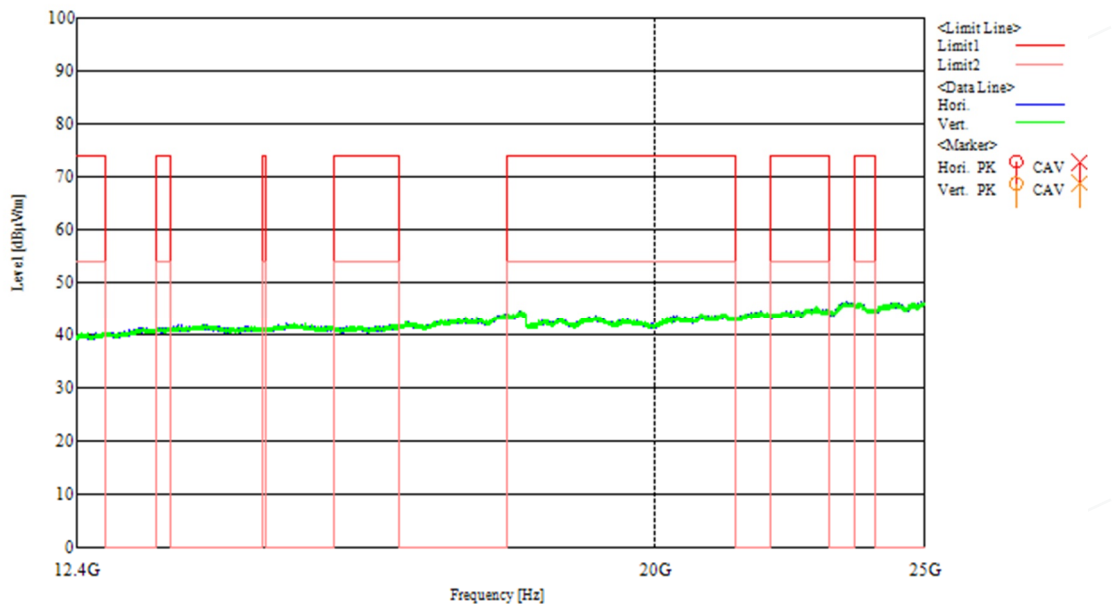
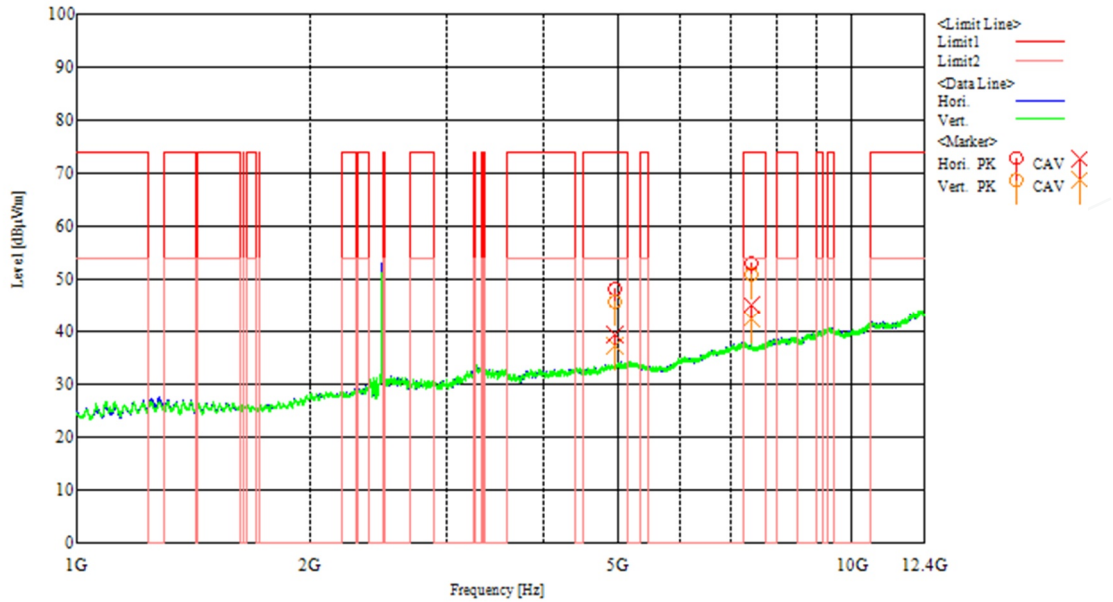
Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

Note 2: 4.9dB was added to the average result as the duty cycle compensation (57%).

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[Chart] Tx 2480MHz 2Mbps X-plane



[Day1]

Tested Date: 05 Feb. 2024 Temperature: 19 degC
 Humidity: 26 % Atmos. Press: 1015 hPa

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[Day2]

Tested Date: 06 Feb. 2024 Temperature: 18 degC
 Humidity: 35 % Atmos. Press: 1015 hPa

[Day3]

Tested Date: 08 Feb. 2024 Temperature: 18 degC
 Humidity: 35 % Atmos. Press: 1015 hPa

Test Data (Restricted band edge)

Configuration: 1

Operating mode: Tx 2402MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.0	31.3	4.8	49.8	37.5	73.9	53.9	24.1	16.4	Hori.
2	2390.000	44.9	31.3	4.8	49.7	37.5	73.9	53.9	24.2	16.4	Vert.

Note: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2402MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.4	31.4	4.8	50.2	37.6	73.9	53.9	23.7	16.3	Hori.
2	2390.000	46.0	31.3	4.8	50.8	37.5	73.9	53.9	23.1	16.4	Vert.

Note: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2402MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.4	31.3	4.8	50.2	37.5	73.9	53.9	23.7	16.4	Hori.
2	2390.000	45.5	31.3	4.8	50.3	37.5	73.9	53.9	23.6	16.4	Vert.

Note: 1.4dB was added to the average result as the duty cycle compensation (85%).

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Operating mode: Tx 2480MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	48.6	31.8	5.5	54.1	38.7	73.9	53.9	19.8	15.2	Hori.
2	2483.500	47.7	31.7	5.5	53.2	38.6	73.9	53.9	20.7	15.3	Vert.

Note: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2480MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	49.8	32.0	5.5	55.3	38.9	73.9	53.9	18.6	15.0	Hori.
2	2483.500	46.6	31.6	5.5	52.1	38.5	73.9	53.9	21.8	15.4	Vert.

Note: 1.4dB was added to the average result as the duty cycle compensation (85%).

Operating mode: Tx 2480MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	46.6	31.6	5.5	52.1	38.5	73.9	53.9	21.8	15.4	Hori.
2	2483.500	50.3	31.9	5.5	55.8	38.8	73.9	53.9	18.1	15.1	Vert.

Note: 1.4dB was added to the average result as the duty cycle compensation (85%).

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Operating mode: Tx 2402MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.7	31.3	4.8	50.5	41.0	73.9	53.9	23.4	12.9	Hori.
2	2390.000	45.5	31.3	4.8	50.3	41.0	73.9	53.9	23.6	12.9	Vert.

Note: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2402MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.4	31.4	4.8	50.2	41.1	73.9	53.9	23.7	12.8	Hori.
2	2390.000	45.1	31.3	4.8	49.9	41.0	73.9	53.9	24.0	12.9	Vert.

Note: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2402MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.5	31.3	4.8	50.3	41.0	73.9	53.9	23.6	12.9	Hori.
2	2390.000	45.3	31.4	4.8	50.1	41.1	73.9	53.9	23.8	12.8	Vert.

Note: 4.9dB was added to the average result as the duty cycle compensation (57%).

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Operating mode: Tx 2480MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	48.8	32.1	5.5	54.3	42.5	73.9	53.9	19.6	11.4	Hori.
2	2483.500	46.9	31.9	5.5	52.4	42.3	73.9	53.9	21.5	11.6	Vert.

Note: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2480MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	51.3	32.7	5.5	56.8	43.1	73.9	53.9	17.1	10.8	Hori.
2	2483.500	46.0	31.7	5.5	51.5	42.1	73.9	53.9	22.4	11.8	Vert.

Note: 4.9dB was added to the average result as the duty cycle compensation (57%).

Operating mode: Tx 2480MHz 2Mbps Z-plane

[Emission level]

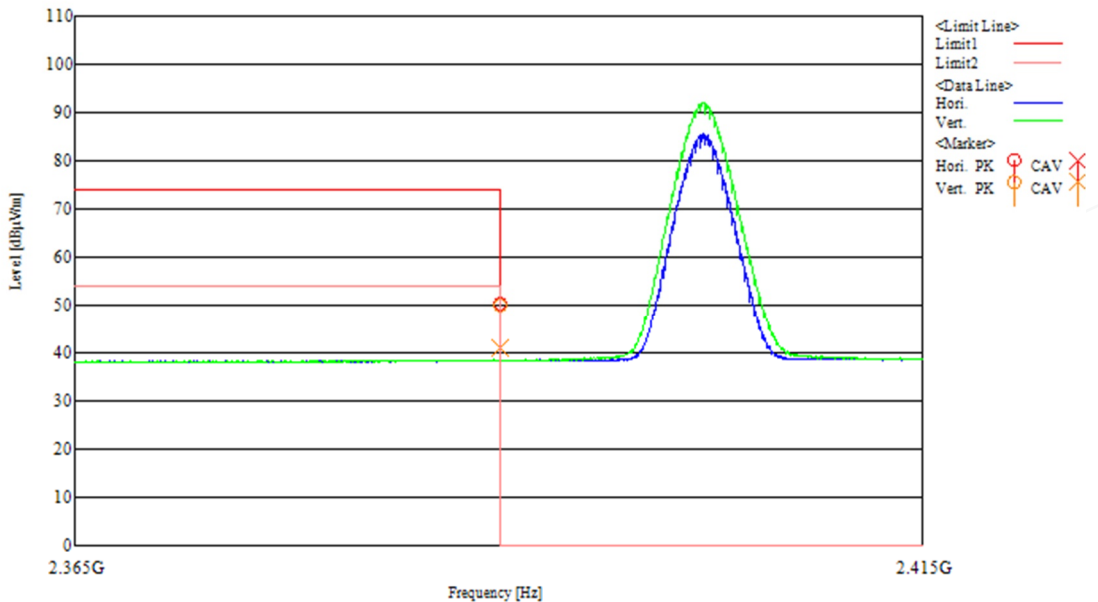
No.	Frequency [MHz]	Reading PK [dBμV]	Reading Ave [dBμV]	C.Factor [dB]	Result PK [dBμV/m]	Result Ave [dBμV/m]	Limit PK [dBμV/m]	Limit Ave [dBμV/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	46.6	31.8	5.5	52.1	42.2	73.9	53.9	21.8	11.7	Hori.
2	2483.500	50.6	32.5	5.5	56.1	42.9	73.9	53.9	17.8	11.0	Vert.

Note: 4.9dB was added to the average result as the duty cycle compensation (57%).

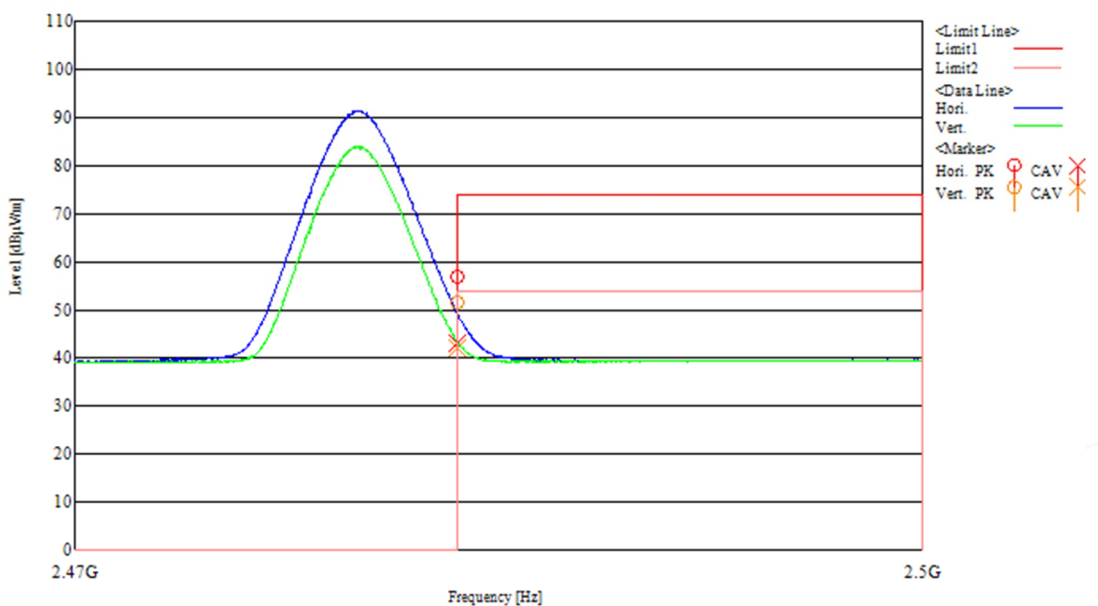
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[Chart] Tx 2402MHz 2Mbps Z-plane



[Chart] Tx 2480MHz 2Mbps Y-plane



Tested Date: 06 Feb. 2024 Temperature: 18 degC
 Humidity: 35 % Atmos. Press: 1015 hPa

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2.7 AC power line conducted emissions

Test setup

Test setup was implemented according to the method of ANSI C63.10 clause 6.2 .

Test procedure

Measurement procedures were implemented according to the method of ANSI C63.10 clause 6.2.

Applicable rule and limitation

FCC 15.207
 RSS-Gen 8.8

AC power line conducted emissions limits

Frequency of Emission [MHz]	Conducted emissions Limit [dB μ V]	
	Quasi-peak	Average
0.15 - 0.5	66 to 56 *	56 to 46 *
0.5 - 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency. The lower limit applies at the band edges.

Test equipment used (refer to List of utilized test equipment)

TR09	CL72	LN05
------	------	------

Test software used

EMI Ver. 6.1

Calculation method

The Correction Factor and Result are calculated as followings.

$$\begin{aligned} \text{Correction Factor [dB]} &= \text{ISN Factor [dB]} + \text{Loss [dB]} \\ \text{Result [dB}\mu\text{V]} &= \text{Reading [dB}\mu\text{V]} + \text{Correction Factor [dB]} \end{aligned}$$

Test results – Complied with requirement

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Test Data

Configuration: 3

Operating mode: Tx 2402MHz 1Mbps
 [Emission level]

	Freq. [MHz]	Reading QP [dBμV]	Reading Ave [dBμV]	Factor [dB]	Result QP [dBμV]	Result Ave [dBμV]	Limit QP [dBμV]	Limit Ave [dBμV]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.26108	29.5	9.0	10.1	39.6	19.1	61.4	51.4	21.8	32.3	Va
2	0.27797	27.6	7.8	10.1	37.7	17.9	60.9	50.9	23.2	33.0	Va
3	0.39145	34.9	29.0	10.1	45.0	39.1	58.0	48.0	13.0	8.9	Va
4	0.27474	29.4	9.0	10.1	39.5	19.1	61.0	51.0	21.5	31.9	Vb
5	0.39209	37.1	29.9	10.1	47.2	40.0	58.0	48.0	10.8	8.0	Vb
6	0.46806	26.5	5.5	10.1	36.6	15.6	56.5	46.5	19.9	30.9	Vb

Operating mode: Tx 2440MHz 1Mbps
 [Emission level]

	Freq. [MHz]	Reading QP [dBμV]	Reading Ave [dBμV]	Factor [dB]	Result QP [dBμV]	Result Ave [dBμV]	Limit QP [dBμV]	Limit Ave [dBμV]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.22784	34.5	10.9	10.2	44.7	21.1	62.5	52.5	17.8	31.4	Va
2	0.39057	34.9	29.2	10.1	45.0	39.3	58.1	48.1	13.1	8.8	Va
3	0.45372	27.9	5.4	10.1	38.0	15.5	56.8	46.8	18.8	31.3	Va
4	0.39030	36.7	29.4	10.1	46.8	39.5	58.1	48.1	11.3	8.6	Vb
5	0.45329	27.6	4.9	10.1	37.7	15.0	56.8	46.8	19.1	31.8	Vb
6	0.49640	22.8	3.2	10.1	32.9	13.3	56.1	46.1	23.2	32.8	Vb

Operating mode: Tx 2480MHz 1Mbps
 [Emission level]

	Freq. [MHz]	Reading QP [dBμV]	Reading Ave [dBμV]	Factor [dB]	Result QP [dBμV]	Result Ave [dBμV]	Limit QP [dBμV]	Limit Ave [dBμV]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.22741	34.7	10.6	10.2	44.9	20.8	62.5	52.5	17.6	31.7	Va
2	0.39035	34.9	29.3	10.1	45.0	39.4	58.1	48.1	13.1	8.7	Va
3	0.47611	25.1	5.2	10.1	35.2	15.3	56.4	46.4	21.2	31.1	Va
4	0.25830	30.8	9.6	10.1	40.9	19.7	61.5	51.5	20.6	31.8	Vb
5	0.39010	36.7	29.5	10.1	46.8	39.6	58.1	48.1	11.3	8.5	Vb
6	0.45873	28.0	5.6	10.1	38.1	15.7	56.7	46.7	18.6	31.0	Vb

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Operating mode: Tx 2402MHz 2Mbps
 [Emission level]

	Freq. [MHz]	Reading QP [dBμV]	Reading Ave [dBμV]	Factor [dB]	Result QP [dBμV]	Result Ave [dBμV]	Limit QP [dBμV]	Limit Ave [dBμV]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.23724	32.4	10.1	10.2	42.6	20.3	62.2	52.2	19.6	31.9	Va
2	0.39136	35.0	30.0	10.1	45.1	40.1	58.0	48.0	12.9	7.9	Va
3	0.68163	23.8	3.0	10.1	33.9	13.1	56.0	46.0	22.1	32.9	Va
4	0.23729	33.8	11.2	10.2	44.0	21.4	62.2	52.2	18.2	30.8	Vb
5	0.27811	27.6	6.4	10.1	37.7	16.5	60.9	50.9	23.2	34.4	Vb
6	0.39179	36.9	30.3	10.1	47.0	40.4	58.0	48.0	11.0	7.6	Vb

Operating mode: Tx 2440MHz 2Mbps
 [Emission level]

	Freq. [MHz]	Reading QP [dBμV]	Reading Ave [dBμV]	Factor [dB]	Result QP [dBμV]	Result Ave [dBμV]	Limit QP [dBμV]	Limit Ave [dBμV]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.23033	34.3	10.3	10.2	44.5	20.5	62.4	52.4	17.9	31.9	Va
2	0.39019	34.8	29.7	10.1	44.9	39.8	58.1	48.1	13.2	8.3	Va
3	0.48040	24.4	4.0	10.1	34.5	14.1	56.3	46.3	21.8	32.2	Va
4	0.22851	35.8	11.2	10.2	46.0	21.4	62.5	52.5	16.5	31.1	Vb
5	0.39137	36.8	30.3	10.1	46.9	40.4	58.0	48.0	11.1	7.6	Vb
6	0.46955	24.9	3.6	10.1	35.0	13.7	56.5	46.5	21.5	32.8	Vb

Operating mode: Tx 2480MHz 2Mbps
 [Emission level]

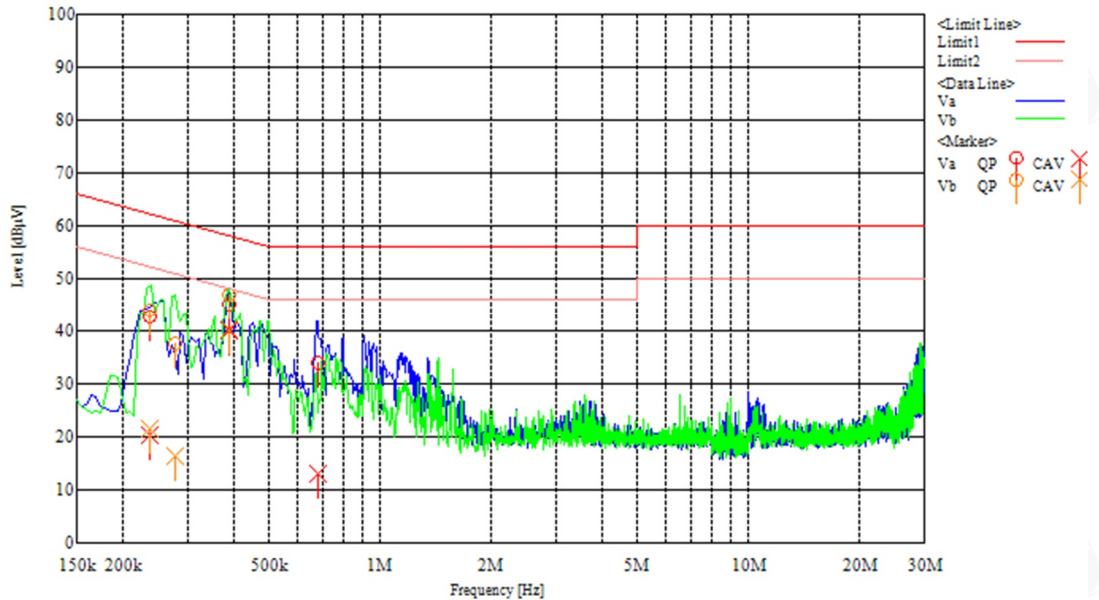
	Freq. [MHz]	Reading QP [dBμV]	Reading Ave [dBμV]	Factor [dB]	Result QP [dBμV]	Result Ave [dBμV]	Limit QP [dBμV]	Limit Ave [dBμV]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.22953	34.3	10.2	10.2	44.5	20.4	62.5	52.5	18.0	32.1	Va
2	0.39077	35.1	30.0	10.1	45.2	40.1	58.0	48.0	12.8	7.9	Va
3	0.70622	20.0	1.9	10.1	30.1	12.0	56.0	46.0	25.9	34.0	Va
4	0.22919	35.8	11.4	10.2	46.0	21.6	62.5	52.5	16.5	30.9	Vb
5	0.39047	36.8	30.3	10.1	46.9	40.4	58.1	48.1	11.2	7.7	Vb
6	0.70228	19.3	0.9	10.1	29.4	11.0	56.0	46.0	26.6	35.0	Vb

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[Chart]

Operating mode: Tx 2402MHz 2Mbps



Tested Date: 07 Feb. 2024
 Humidity: 31 %

Temperature: 19 degC
 Atmos. Press: 1012 hPa

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2.8 Antenna requirement

Applicable rule and limitation

FCC 15.203
 RSS-Gen 6.8

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

Results – Complied with requirement

EUT uses no other antenna than the following antenna, which is permanently attached to the EUT.
 The EUT therefore meets the requirement of this section.

No.	Antenna type	Antenna gain	Impedance
1	$\lambda / 2$ Slot antenna	-4.5dBi [max]	50 Ω

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4 List of utilized test equipment / calibration

ID No.	Kind of Equipment	Manufacturer	Model No.	Serial Number	Cal. Date	Cal. until
AC01(EM)	Anechoic Chamber (1st test room)	JSE	203397C	-	2023/03/08	2024/03/31
AC01(EG)	Anechoic Chamber (1st test room)	JSE	203397C	-	2023/03/30	2024/03/31
BA07	Biological Antenna	TESEQ	CBL6143A	26670	2023/03/15	2024/03/31
CL11	RF Cable for RE	RFT	-	-	2023/03/16	2024/03/31
CL72	RF Cable for CE	RFT	-	-	2024/01/17	2025/01/31
CL31	RF Cable 1 m	Junkosha	MWX221	1303S118	2024/01/18	2025/01/31
CL38	RF Cable 2 m	Junkosha	MWX221	1603S626	2024/01/18	2025/01/31
CL39	RF Cable 5 m	SUHNER	SUCOFLEX126E	523222	2024/01/18	2025/01/31
DH06	DRG Horn Antenna	A.H. Systems	SAS-571	1339	2022/07/09	2024/07/31
SH01	Standard Horn Antenna (18-26G)	A.H. Systems	SAS-572	208	2022/07/16	2024/07/31
SH05	Standard Horn Antenna (12-18G)	A.H. Systems	SAS-586	214	2022/07/16	2024/07/31
LN05	LISN	Kyoritsu	KNW-407F	8-1773-2	2023/09/26	2024/09/30
PR12	Pre. Amplifier (1-26G)	Agilent Technologies	8449B	3008A02513	2024/01/17	2025/01/31
PR21	Pre. Amplifier	Anritsu	MH648A	6200467119	2023/03/16	2024/03/31
BRF12	Band Reject Filter (2400MHz)	M-City	BRF2440-01	RF0012-02	2023/03/30	2024/03/31
HPF11	High Pass Filter (3500MHz)	Wainwright	WHNX6-2765-3500-26500-40CC	2	2023/08/09	2024/08/31
LPF1	Low Pass Filter (1000MHz)	M-City	LPF1000-04	RF0012-01	2023/03/10	2024/03/31
LP06	Loop Antenna	ETS-Lindgren	6502	00164299	2023/10/20	2024/10/31
AT17	Attenuator	JFW	50HF-006N	—	2023/03/30	2024/03/31
AT33	Attenuator 10dB 26GHz	INMET	26A-10	-	2023/10/25	2024/10/31
TR06	Test Receiver (F/W : 4.73 SP4)	Rohde & Schwarz	ESU26	100002	2023/12/15	2024/12/31
TR09	Test Receiver (F/W : 4.43 SP3)	Rohde & Schwarz	ESU8	100386	2023/09/28	2024/09/30

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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