

TEST REPORT

For

Bluetooth low energy module

In conformity with

FCC Part 15C/ RSS-247 Issue 3

Model Name: HY0021

FCC ID: 2AQ85HY0021

ISED Cert No.: 31945- HY0021

Report No.: WE240617CB1-12

Issue Date: 12 Sep. 2024

Prepared for

FDK CORPORATION
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Prepared by

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History

Report No.	Date	Revisions	Issued By
WE240617CB1-11	23 Aug. 2024	Initial Issue	N. Inokawa
WE240617CB1-12	12 Sep. 2024	Bluetooth version correction	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	: HY0021
FCC ID	: 2AQ85HY0021
ISED No.	: 31945- HY0021
Serial number	: C2 (for radiated test) : C1 (for conducted test)
Hardware version	: 1
Software version	: 1.1
Operating frequency	: 2402 - 2480 MHz
Modulation	: GFSK, Bluetooth 5.4 LE
Antenna gain	: -2.2 dBi
Rated RF output power	: 4 dBm
Receipt date of EUT	: 20 Jun. 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 (15 Apr. 2024) RSS-247 Issue 3
Test method(s)	: ANSI C63.10: 2013
Test(s) started	: 01 Jul. 2024
Test(s) completed	: 15 Aug. 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 in 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>.

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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	: ± 5.1 dB (9 kHz - 30 MHz)
	: ± 5.0 dB (30 MHz - 1000 MHz)
	: ± 4.2 dB (1 GHz - 6 GHz)
	: ± 4.3 dB (6 GHz - 18 GHz)
	: ± 4.4 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	HY0021	C2
1-2	Bluetooth low energy module	FDK CORPORATION	HY0021	C1

Support equipment(s)

No.	Item	Manufacture	Model No.	Serial No.
2-1	Jig	FDK CORPORATION	-	C2
2-2	Jig	FDK CORPORATION	-	C1
3	PC	hp	V6E11AV	JPH803XHRS
4	AC adapter	hp	HSTNN-CA41	WFULP0CNJ85T 4K 0C
5	AC adapter	GO FORWARD ENTERPRISE	NP12-US0320	1612-L3

Connected cable(s)

No.	Item	From	To	Cable Shielded	Ferrite Core	Length [m]
A	DC cable	2	5, DC	No	No	1.8
B	USB cable	2	3	Yes	No	1.0
C	DC cable	3	4	Yes	No	1.7
D	AC cable	4	AC	No	No	1.0
E	AC cable	5	AC	No	No	1.0

Test software

NrdkBLE_SirialProg2 ver. 1.0.0.0 with the following settings;

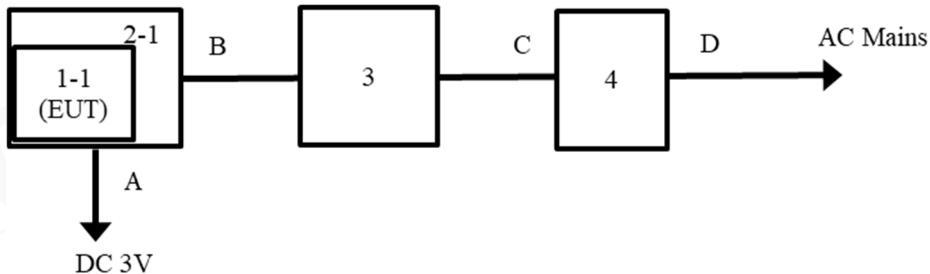
- Transmit on channel:00 (for Tx 2402MHz)
 - 19 (for Tx 2440MHz)
 - 39 (for Tx 2480MHz)
- Transmit power: +4 dBm
- Physical layer: LE 1M PHY (for 1Mbps data rate)
 - LE 2M PHY (for 2Mbps data rate)
- Packet length: 255 Bytes (for 85% duty cycle setting in LE 1M PHY and 57% in LE 2M PHY)

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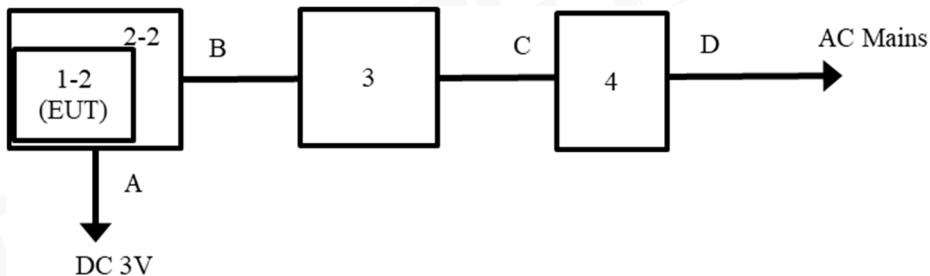
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1.6.2 Setup diagram of tested system

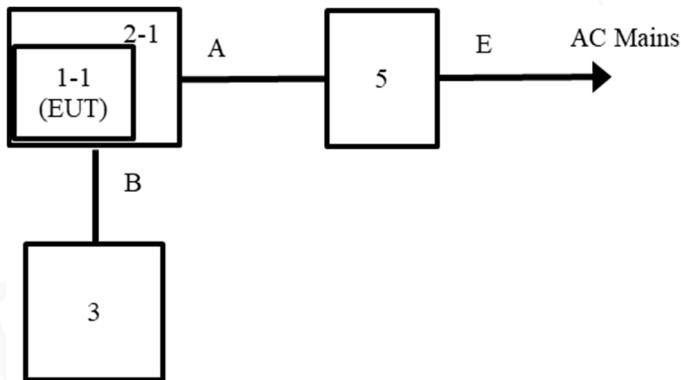
[Configuration 1]



[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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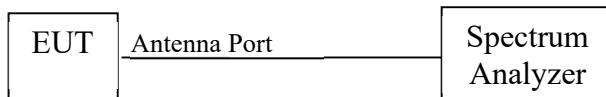
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2 Test procedure and test data

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

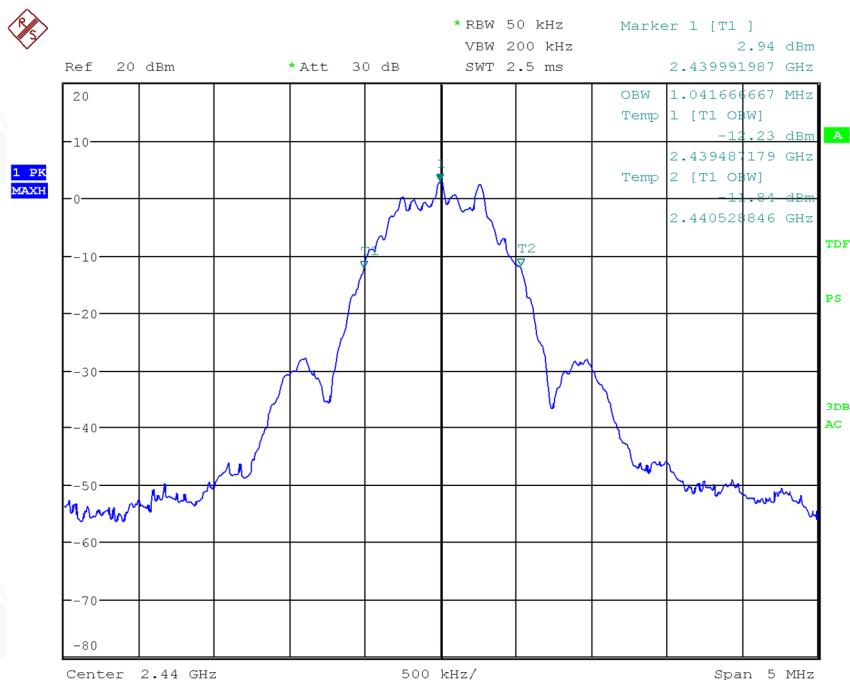
Transmission Frequency [MHz]	Data Rate	Occupied Bandwidth [kHz]
2402	1Mbps	1042
2440	1Mbps	1042
2480	1Mbps	1042
2402	2Mbps	2059
2440	2Mbps	2067
2480	2Mbps	2075

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[Chart]

Operating condition: Tx 2440MHz 1Mbps

Tested Date: 01 Jul. 2024
Humidity: 70 %Temperature: 21 degC
Atmos. Press: 1000 hPa

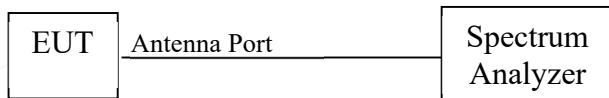
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2.2 6dB Bandwidth

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

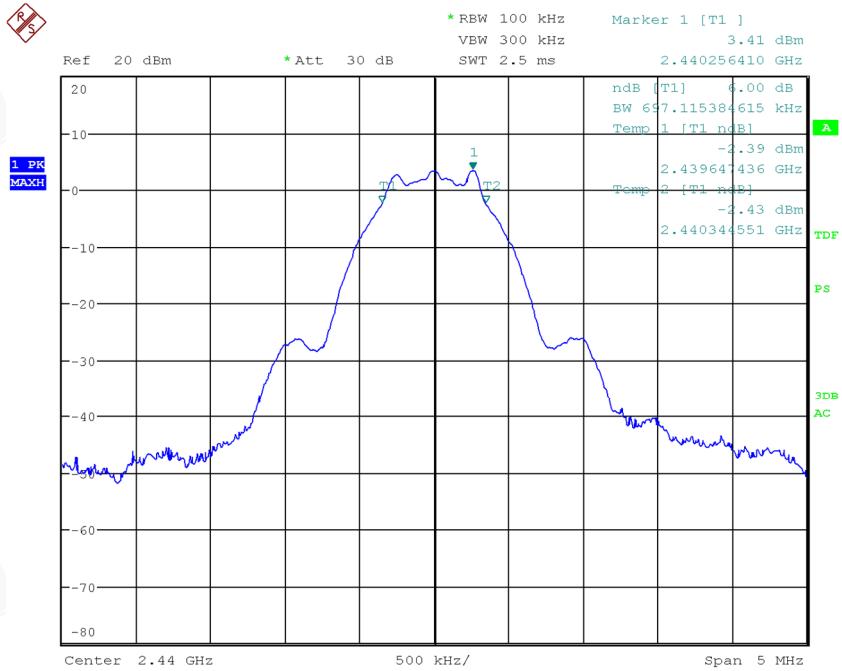
Transmission Frequency [MHz]	Data Rate	6dB Bandwidth [kHz]	Result
2402	1Mbps	705.1	Pass
2440	1Mbps	697.1	Pass
2480	1Mbps	705.1	Pass
2402	2Mbps	1161.9	Pass
2440	2Mbps	1169.9	Pass
2480	2Mbps	1169.9	Pass

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[Chart]

Operating condition: Tx 2440MHz 1Mbps



Tested Date: 01 Jul. 2024
 Humidity: 70 %

Temperature: 21 degC
 Atmos. Press: 1000 hPa

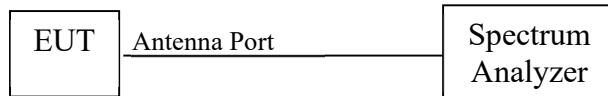
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2.3 Maximum Peak Conducted Output Power

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

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

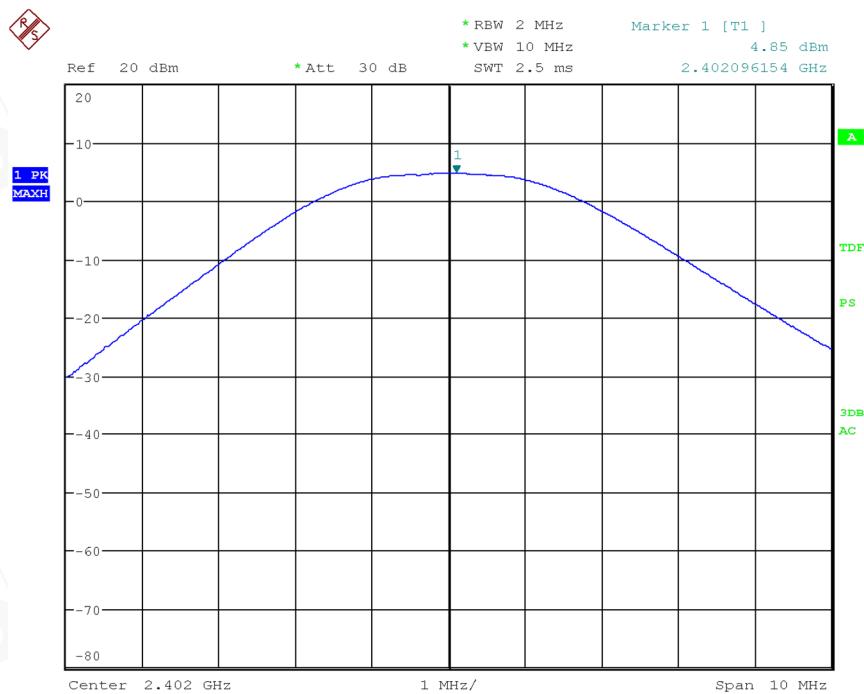
Transmission Frequency [MHz]	Data Rate	Output Power [dBm]	Result
2402	1Mbps	4.83	Pass
2440	1Mbps	4.74	Pass
2480	1Mbps	4.80	Pass
2402	2Mbps	4.85	Pass
2440	2Mbps	4.80	Pass
2480	2Mbps	4.82	Pass

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[Chart]

Operating condition: Tx 2402MHz 2Mbps

Tested Date: 01 Jul. 2024
Humidity: 70 %Temperature: 21 degC
Atmos. Press: 1000 hPa

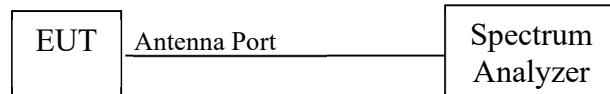
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2.4 Power Spectral Density

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

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	-	-
------	------	---	---

Test results - Complied with requirement

Test Data

Configuration: 2

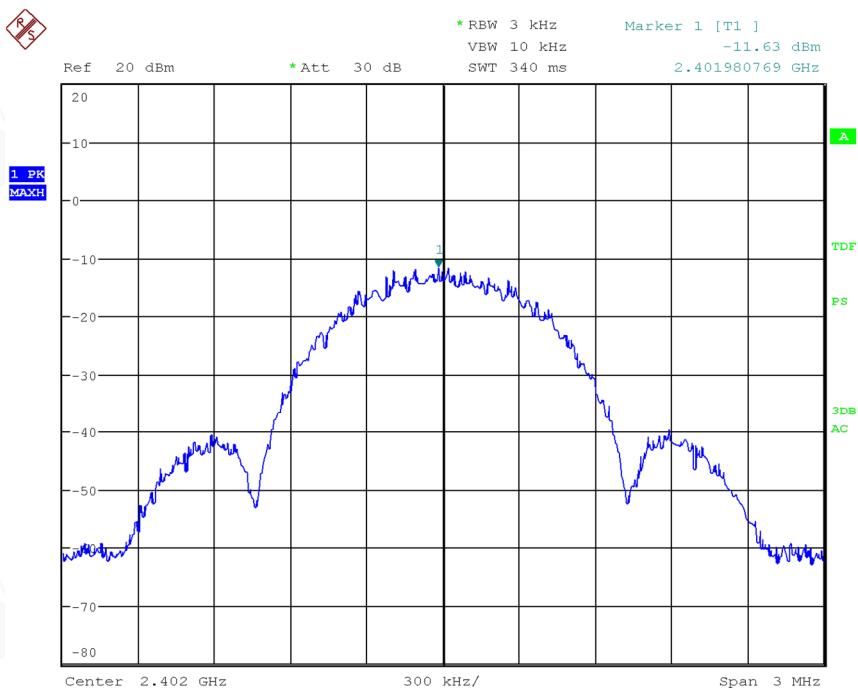
Transmission Frequency [MHz]	Data Rate	Power Spectral Density [dBm/3kHz]	Result
2402	1Mbps	-11.63	Pass
2440	1Mbps	-11.66	Pass
2480	1Mbps	-11.71	Pass
2402	2Mbps	-13.54	Pass
2440	2Mbps	-13.73	Pass
2480	2Mbps	-13.69	Pass

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[Chart]

Operating condition: Tx 2402MHz 1Mbps



Tested Date: 01 Jul. 2024
Humidity: 70 %

Temperature: 21 degC
Atmos. Press: 1000 hPa

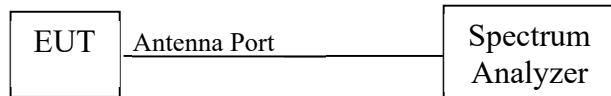
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2.5 Conducted Spurious Emissions

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]
4803.53	-44.32	4.30	-15.70
7206.73	-50.47	4.30	-15.70

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	-43.52	4.25	-15.75

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]
4960.53	-43.90	4.20	-15.80

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

Operating mode: Tx 2402MHz 2Mbps

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2399.97	-30.05	4.34	-15.66
4804.00	-43.51	4.34	-15.66

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]
4881.00	-45.66	4.28	-15.72

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

Operating mode: Tx 2478MHz 2Mbps

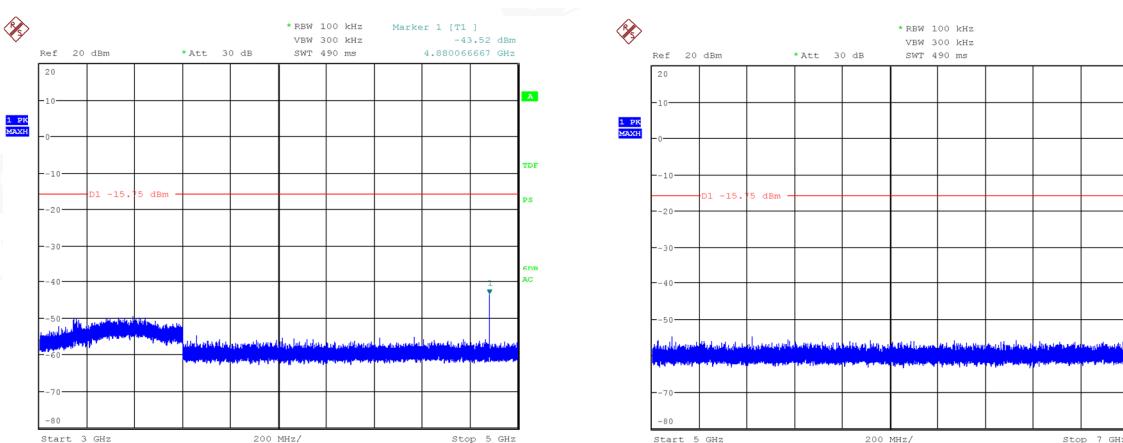
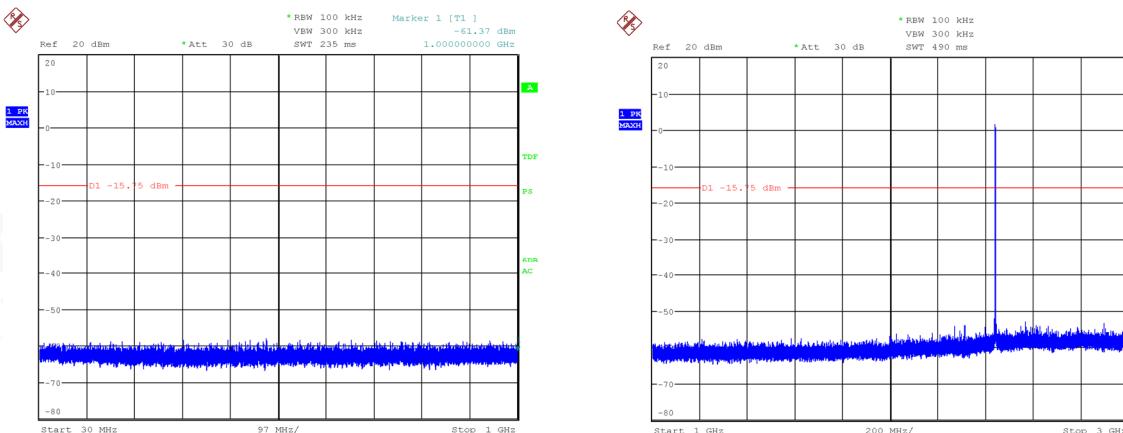
Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2484.01	-49.90	4.20	-15.80
4961.00	-46.39	4.20	-15.80

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

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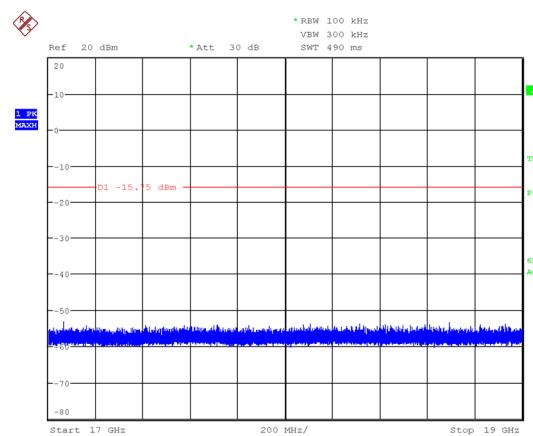
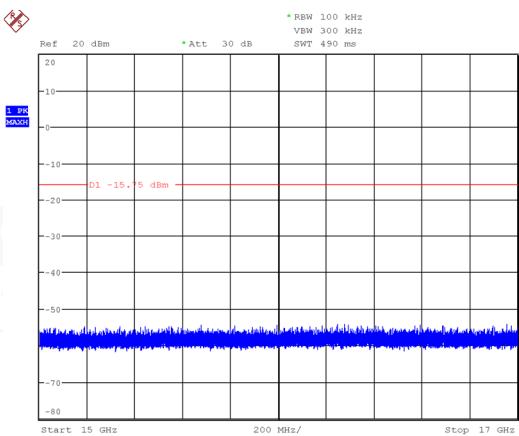
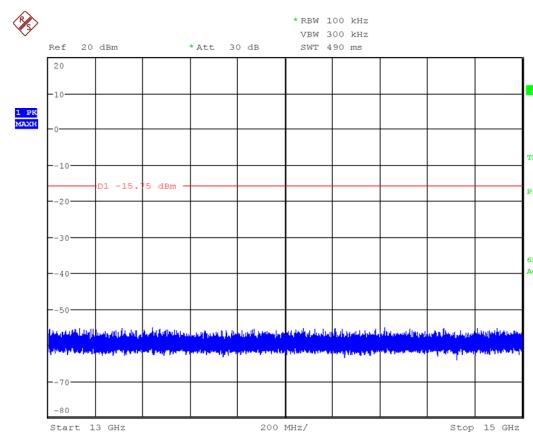
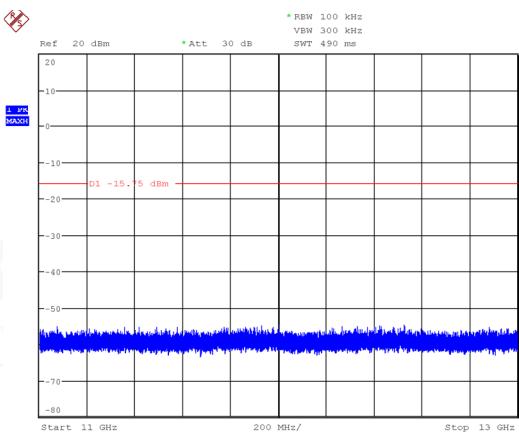
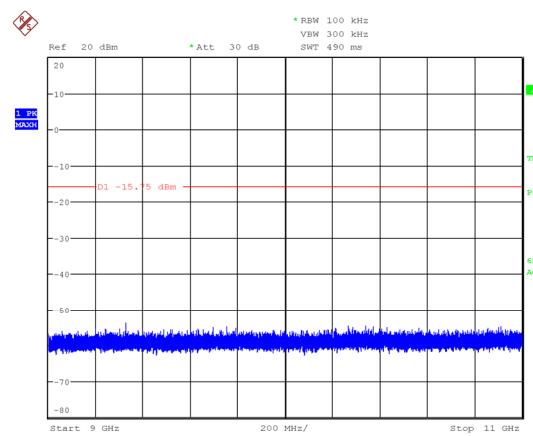
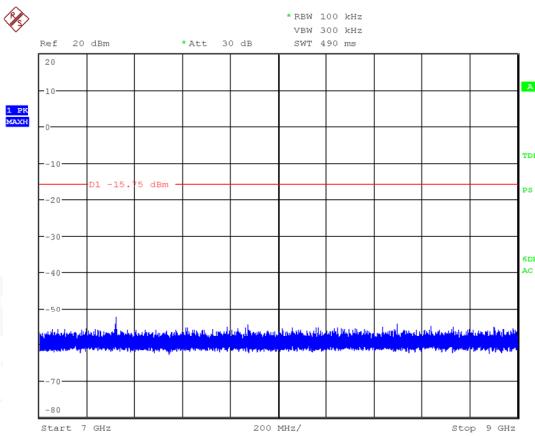
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[Chart] Tx 2440MHz 1Mbps



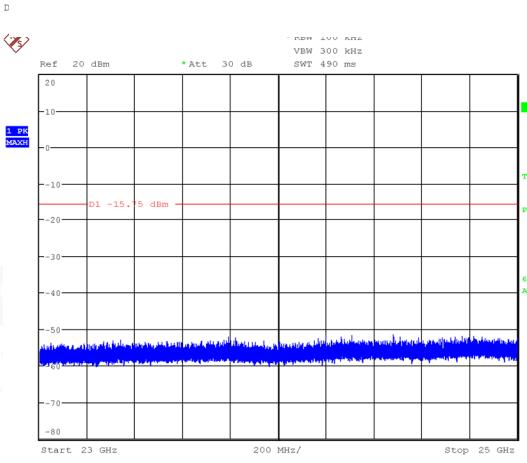
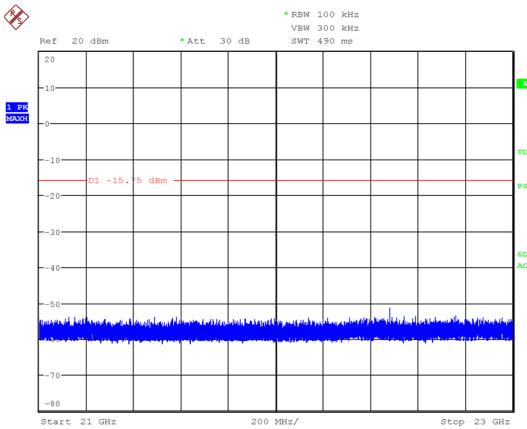
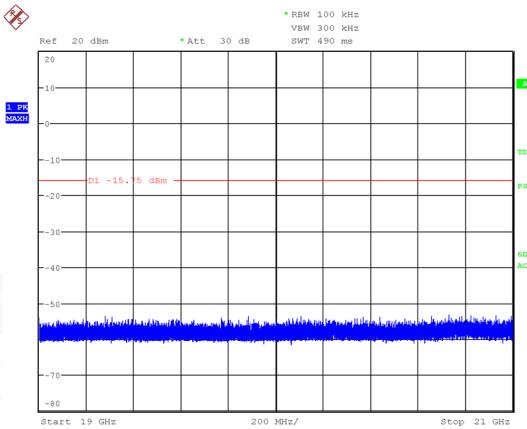
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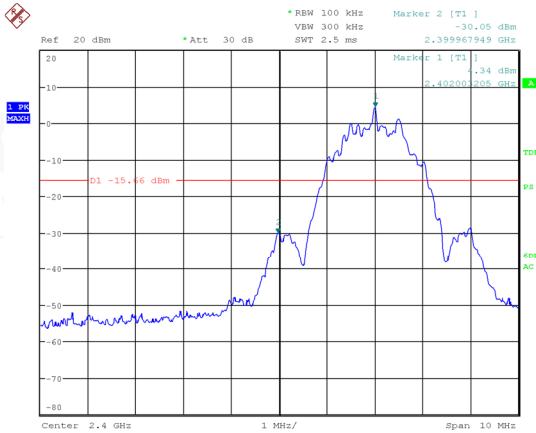


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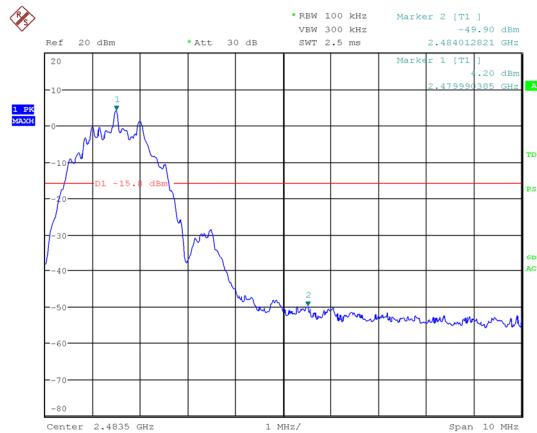
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[Band edge]

Tx 2402MHz 2Mbps



Tx 2480MHz 2Mbps



Tested Date: 01 Jul. 2024
 Humidity: 70 %

Temperature: 21 degC
 Atmos. Press: 1000 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 [μ V/m]	Measurement Distance [m]	Field Strength [dB μ 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
DH07	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 (9kHz to 30MHz)

Configuration: 1

Operating mode: Tx 2402MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59093	36.6	11.0	0.2	0.0	47.8	72.2	24.4	0deg

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

Operating mode: Tx 2402MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59880	35.6	11.0	0.2	0.0	46.8	72.0	25.2	0deg

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

Operating mode: Tx 2402MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.58305	37.4	11.0	0.2	0.0	48.6	72.3	23.7	0deg

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

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Operating mode: Tx 2440MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59231	37.3	11.0	0.2	0.0	48.5	72.1	23.6	0deg
2	1.18145	29.2	10.9	0.2	0.0	40.3	66.1	25.8	0deg

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

Operating mode: Tx 2440MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.58685	37.9	11.0	0.2	0.0	49.1	72.2	23.1	0deg

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

Operating mode: Tx 2440MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.61455	38.2	11.0	0.2	0.0	49.4	71.8	22.4	0deg
2	1.17358	29.1	10.9	0.2	0.0	40.2	66.2	26.0	0deg

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

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Operating mode: Tx 2480MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.61455	37.7	11.0	0.2	0.0	48.9	71.8	22.9	0deg
2	1.18145	28.8	10.9	0.2	0.0	39.9	66.1	26.2	0deg

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

Operating mode: Tx 2480MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.58762	38.1	11.0	0.2	0.0	49.3	72.2	22.9	0deg
2	1.17358	27.9	10.9	0.2	0.0	39.0	66.2	27.2	0deg

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

Operating mode: Tx 2480MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.58285	37.0	11.0	0.2	0.0	48.2	72.3	24.1	0deg
2	0.58415	36.0	11.0	0.2	0.0	47.2	72.3	25.1	90deg

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

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Operating mode: Tx 2402MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59093	37.0	11.0	0.2	0.0	48.2	72.2	24.0	0deg

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

Operating mode: Tx 2402MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.61538	36.9	11.0	0.2	0.0	48.1	71.8	23.7	0deg

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

Operating mode: Tx 2402MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.58502	38.3	11.0	0.2	0.0	49.5	72.2	22.7	0deg
2	0.59673	33.7	11.0	0.2	0.0	44.9	72.1	27.2	90deg

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

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Operating mode: Tx 2440MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	1.20508	28.1	10.9	0.2	0.0	39.2	65.9	26.7	0deg

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

Operating mode: Tx 2440MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59063	37.1	11.0	0.2	0.0	48.3	72.2	23.9	0deg
2	0.61455	33.8	11.0	0.2	0.0	45.0	71.8	26.8	90deg

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

Operating mode: Tx 2440MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.60329	36.6	11.0	0.2	0.0	47.8	72.0	24.2	0deg
2	1.22050	30.2	10.9	0.2	0.0	41.3	65.8	24.5	0deg
3	0.58429	35.0	11.0	0.2	0.0	46.2	72.3	26.1	90deg

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

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Operating mode: Tx 2480MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59880	34.8	11.0	0.2	0.0	46.0	72.0	26.0	0deg
2	1.19720	26.8	10.9	0.2	0.0	37.9	66.0	28.1	0deg

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

Operating mode: Tx 2480MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.59834	37.9	11.0	0.2	0.0	49.1	72.1	23.0	0deg

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

Operating mode: Tx 2480MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	0.58633	38.3	11.0	0.2	0.0	49.5	72.2	22.7	0deg

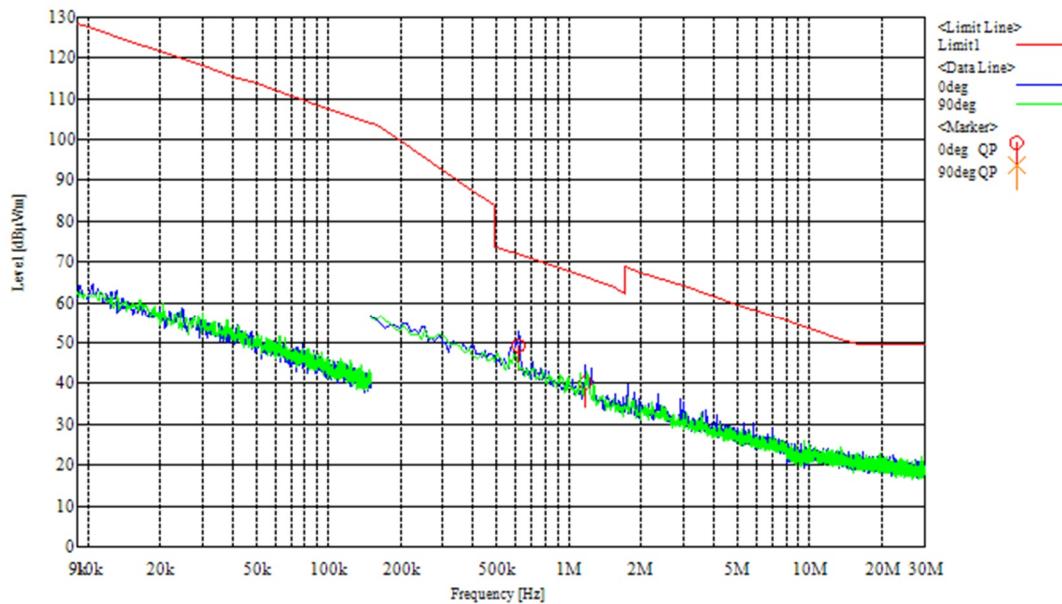
Note 1: All other emissions have more than 20 dB margin or are below the noise floor.

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[Chart]

Tx 2440MHz 1Mbps Z-plane



Tested Date: 08 Aug. 2024
Humidity: 56 %

Temperature: 21 degC
Atmos. Press: 1001 hPa

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Test Data (30MHz to 1000MHz)
Configuration: 1
Operating mode: Tx 2402MHz 1Mbps X-plane
[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	663.746	26.8	18.8	12.0	30.3	27.3	46.0	18.7	Hori.
2	30.551	28.6	22.1	6.9	30.4	27.2	40.0	12.8	Vert.
3	60.047	31.4	10.4	7.4	30.3	18.9	40.0	21.1	Vert.
4	88.614	30.2	7.9	7.8	30.3	15.6	43.5	27.9	Vert.
5	142.018	30.1	12.1	8.3	30.2	20.3	43.5	23.2	Vert.
6	599.993	38.3	18.5	11.8	30.2	38.4	46.0	7.6	Vert.
7	666.453	29.3	18.9	12.0	30.3	29.9	46.0	16.1	Vert.

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

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	666.423	27.8	18.9	12.0	30.3	28.4	46.0	17.6	Hori.
2	31.041	29.7	21.9	6.9	30.4	28.1	40.0	11.9	Vert.
3	60.066	30.8	10.4	7.4	30.3	18.3	40.0	21.7	Vert.
4	89.746	30.7	8.2	7.8	30.3	16.4	43.5	27.1	Vert.
5	128.008	30.2	12.7	8.2	30.2	20.9	43.5	22.6	Vert.
6	599.980	37.3	18.5	11.8	30.2	37.4	46.0	8.6	Vert.
7	663.765	30.4	18.8	12.0	30.3	30.9	46.0	15.1	Vert.

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

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.719	28.3	22.1	6.9	30.4	26.9	40.0	13.1	Vert.
2	59.514	29.2	10.5	7.4	30.3	16.8	40.0	23.2	Vert.
3	88.807	32.3	8.0	7.8	30.3	17.8	43.5	25.7	Vert.
4	99.636	36.8	10.4	7.9	30.2	24.9	43.5	18.6	Vert.
5	127.436	33.4	12.7	8.2	30.2	24.1	43.5	19.4	Vert.
6	600.022	35.9	18.5	11.9	30.2	36.1	46.0	9.9	Vert.
7	666.445	27.9	18.9	12.0	30.3	28.5	46.0	17.5	Vert.
8	906.695	22.2	20.4	13.1	29.3	26.4	46.0	19.6	Vert.

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Operating mode: Tx 2440MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.773	28.3	22.0	6.9	30.4	26.8	40.0	13.2	Vert.
2	59.924	31.3	10.4	7.4	30.3	18.8	40.0	21.2	Vert.
3	88.757	31.1	8.0	7.8	30.3	16.6	43.5	26.9	Vert.
4	137.163	29.6	12.4	8.3	30.2	20.1	43.5	23.4	Vert.
5	600.000	38.6	18.5	11.8	30.2	38.7	46.0	7.3	Vert.
6	666.444	29.1	18.9	12.0	30.3	29.7	46.0	16.3	Vert.

Operating mode: Tx 2440MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	666.484	27.1	18.9	12.0	30.3	27.7	46.0	18.3	Hori.
2	31.099	29.6	21.9	6.9	30.4	28.0	40.0	12.0	Vert.
3	60.125	30.6	10.3	7.4	30.3	18.0	40.0	22.0	Vert.
4	91.093	30.2	8.5	7.8	30.3	16.2	43.5	27.3	Vert.
5	129.056	30.4	12.7	8.2	30.2	21.1	43.5	22.4	Vert.
6	599.985	36.8	18.5	11.8	30.2	36.9	46.0	9.1	Vert.
7	666.469	30.0	18.9	12.0	30.3	30.6	46.0	15.4	Vert.

Operating mode: Tx 2440MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.873	28.2	22.0	6.9	30.4	26.7	40.0	13.3	Vert.
2	59.453	30.1	10.5	7.4	30.3	17.7	40.0	22.3	Vert.
3	88.864	33.6	8.0	7.8	30.3	19.1	43.5	24.4	Vert.
4	99.682	36.7	10.4	7.9	30.2	24.8	43.5	18.7	Vert.
5	127.323	33.2	12.7	8.2	30.2	23.9	43.5	19.6	Vert.
6	600.009	36.8	18.5	11.9	30.2	37.0	46.0	9.0	Vert.
7	663.790	28.6	18.8	12.0	30.3	29.1	46.0	16.9	Vert.

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Operating mode: Tx 2480MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	399.846	27.8	16.0	10.3	30.3	23.8	46.0	22.2	Hori.
2	30.578	28.5	22.1	6.9	30.4	27.1	40.0	12.9	Vert.
3	59.970	31.5	10.4	7.4	30.3	19.0	40.0	21.0	Vert.
4	88.756	30.8	8.0	7.8	30.3	16.3	43.5	27.2	Vert.
5	141.151	30.5	12.2	8.3	30.2	20.8	43.5	22.7	Vert.
6	599.962	35.8	18.5	11.8	30.2	35.9	46.0	10.1	Vert.
7	666.505	27.0	18.9	12.0	30.3	27.6	46.0	18.4	Vert.

Operating mode: Tx 2480MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	31.044	29.6	21.9	6.9	30.4	28.0	40.0	12.0	Vert.
2	60.003	31.0	10.4	7.4	30.3	18.5	40.0	21.5	Vert.
3	91.267	30.5	8.5	7.8	30.3	16.5	43.5	27.0	Vert.
4	99.568	32.8	10.4	7.9	30.2	20.9	43.5	22.6	Vert.
5	127.244	30.7	12.7	8.2	30.2	21.4	43.5	22.1	Vert.
6	599.985	36.7	18.5	11.8	30.2	36.8	46.0	9.2	Vert.
7	663.702	27.9	18.8	12.0	30.3	28.4	46.0	17.6	Vert.
8	946.364	21.2	20.7	13.3	28.9	26.3	46.0	19.7	Vert.

Operating mode: Tx 2480MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.867	28.3	22.0	6.9	30.4	26.8	40.0	13.2	Vert.
2	58.951	30.2	10.6	7.4	30.3	17.9	40.0	22.1	Vert.
3	88.702	33.2	7.9	7.8	30.3	18.6	43.5	24.9	Vert.
4	127.411	33.3	12.7	8.2	30.2	24.0	43.5	19.5	Vert.
5	600.013	36.9	18.5	11.9	30.2	37.1	46.0	8.9	Vert.
6	666.459	28.1	18.9	12.0	30.3	28.7	46.0	17.3	Vert.

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Operating mode: Tx 2402MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	599.985	30.0	18.5	11.8	30.2	30.1	46.0	15.9	Hori.
2	666.471	29.7	18.9	12.0	30.3	30.3	46.0	15.7	Hori.
3	30.485	29.3	22.2	6.9	30.4	28.0	40.0	12.0	Vert.
4	60.052	32.5	10.4	7.4	30.3	20.0	40.0	20.0	Vert.
5	86.388	32.2	7.5	7.7	30.3	17.1	40.0	22.9	Vert.
6	599.988	38.4	18.5	11.8	30.2	38.5	46.0	7.5	Vert.
7	666.450	29.2	18.9	12.0	30.3	29.8	46.0	16.2	Vert.

Operating mode: Tx 2402MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.970	29.6	21.9	6.9	30.4	28.0	40.0	12.0	Vert.
2	60.027	30.6	10.4	7.4	30.3	18.1	40.0	21.9	Vert.
3	88.883	29.9	8.0	7.8	30.3	15.4	43.5	28.1	Vert.
4	99.639	31.5	10.4	7.9	30.2	19.6	43.5	23.9	Vert.
5	129.840	29.4	12.7	8.2	30.2	20.1	43.5	23.4	Vert.
6	599.965	36.6	18.5	11.8	30.2	36.7	46.0	9.3	Vert.
7	666.454	28.6	18.9	12.0	30.3	29.2	46.0	16.8	Vert.

Operating mode: Tx 2402MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.974	28.2	21.9	6.9	30.4	26.6	40.0	13.4	Vert.
2	59.976	30.1	10.4	7.4	30.3	17.6	40.0	22.4	Vert.
3	88.908	32.7	8.0	7.8	30.3	18.2	43.5	25.3	Vert.
4	127.661	33.0	12.7	8.2	30.2	23.7	43.5	19.8	Vert.
5	600.008	37.5	18.5	11.9	30.2	37.7	46.0	8.3	Vert.
6	663.786	28.5	18.8	12.0	30.3	29.0	46.0	17.0	Vert.

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Operating mode: Tx 2440MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	663.813	27.0	18.8	12.0	30.3	27.5	46.0	18.5	Hori.
2	30.741	28.9	22.0	6.9	30.4	27.4	40.0	12.6	Vert.
3	60.078	31.6	10.4	7.4	30.3	19.1	40.0	20.9	Vert.
4	88.798	30.9	8.0	7.8	30.3	16.4	43.5	27.1	Vert.
5	141.490	30.1	12.2	8.3	30.2	20.4	43.5	23.1	Vert.
6	599.976	38.3	18.5	11.8	30.2	38.4	46.0	7.6	Vert.
7	663.758	29.0	18.8	12.0	30.3	29.5	46.0	16.5	Vert.

Operating mode: Tx 2440MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.970	29.5	21.9	6.9	30.4	27.9	40.0	12.1	Vert.
2	60.072	30.9	10.4	7.4	30.3	18.4	40.0	21.6	Vert.
3	92.656	30.4	8.9	7.8	30.3	16.8	43.5	26.7	Vert.
4	99.572	34.2	10.4	7.9	30.2	22.3	43.5	21.2	Vert.
5	127.656	30.5	12.7	8.2	30.2	21.2	43.5	22.3	Vert.
6	599.999	37.8	18.5	11.8	30.2	37.9	46.0	8.1	Vert.
7	663.774	30.3	18.8	12.0	30.3	30.8	46.0	15.2	Vert.

Operating mode: Tx 2440MHz 2Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.892	28.3	22.0	6.9	30.4	26.8	40.0	13.2	Vert.
2	59.965	30.4	10.4	7.4	30.3	17.9	40.0	22.1	Vert.
3	88.878	33.1	8.0	7.8	30.3	18.6	43.5	24.9	Vert.
4	127.475	33.2	12.7	8.2	30.2	23.9	43.5	19.6	Vert.
5	599.999	37.6	18.5	11.8	30.2	37.7	46.0	8.3	Vert.
6	663.792	28.7	18.8	12.0	30.3	29.2	46.0	16.8	Vert.

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Operating mode: Tx 2480MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	398.241	27.7	15.9	10.3	30.3	23.6	46.0	22.4	Hori.
2	666.426	28.0	18.9	12.0	30.3	28.6	46.0	17.4	Hori.
3	30.776	28.7	22.0	6.9	30.4	27.2	40.0	12.8	Vert.
4	60.027	30.7	10.4	7.4	30.3	18.2	40.0	21.8	Vert.
5	88.906	30.9	8.0	7.8	30.3	16.4	43.5	27.1	Vert.
6	600.006	37.4	18.5	11.9	30.2	37.6	46.0	8.4	Vert.
7	663.780	28.4	18.8	12.0	30.3	28.9	46.0	17.1	Vert.

Operating mode: Tx 2480MHz 2Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.940	29.7	22.0	6.9	30.4	28.2	40.0	11.8	Vert.
2	60.050	30.7	10.4	7.4	30.3	18.2	40.0	21.8	Vert.
3	88.770	30.9	8.0	7.8	30.3	16.4	43.5	27.1	Vert.
4	99.600	32.8	10.4	7.9	30.2	20.9	43.5	22.6	Vert.
5	127.378	30.6	12.7	8.2	30.2	21.3	43.5	22.2	Vert.
6	600.010	36.8	18.5	11.9	30.2	37.0	46.0	9.0	Vert.
7	666.424	28.4	18.9	12.0	30.3	29.0	46.0	17.0	Vert.
8	899.324	21.9	20.4	13.0	29.4	25.9	46.0	20.1	Vert.

Operating mode: Tx 2480MHz 2Mbps Z-plane

[Emission level]

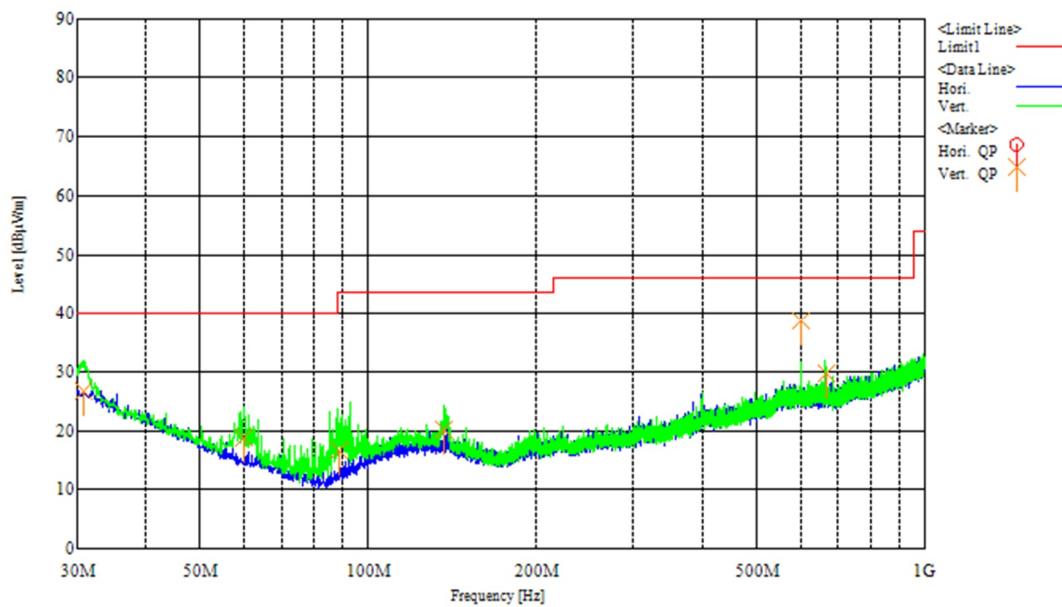
No.	Frequency [MHz]	Reading [dB μ V]	Factor [dB/m]	Loss [dB]	Gain [dB]	Result [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]	Ant.
1	30.776	28.5	22.0	6.9	30.4	27.0	40.0	13.0	Vert.
2	59.981	30.6	10.4	7.4	30.3	18.1	40.0	21.9	Vert.
3	88.899	33.4	8.0	7.8	30.3	18.9	43.5	24.6	Vert.
4	127.511	33.6	12.7	8.2	30.2	24.3	43.5	19.2	Vert.
5	600.007	37.5	18.5	11.9	30.2	37.7	46.0	8.3	Vert.
6	663.744	28.8	18.8	12.0	30.3	29.3	46.0	16.7	Vert.

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[Chart]

Tx 2440MHz 1Mbps X-plane



Tested Date: 26 Jul. 2024
Humidity: 50 %

Temperature: 23 degC
Atmos. Press: 1012 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.912	42.2	29.2	2.4	44.6	33.0	73.9	53.9	29.3	20.9	Hori.

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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.788	42.7	30.0	2.4	45.1	33.8	73.9	53.9	28.8	20.1	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 2402MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.015	42.9	30.0	2.4	45.3	33.8	73.9	53.9	28.6	20.1	Hori.
2	4804.006	42.6	29.5	2.4	45.0	33.3	73.9	53.9	28.9	20.6	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7319.444	44.4	33.0	6.8	51.2	41.2	73.9	53.9	22.7	12.7	Hori.
2	7319.467	43.8	32.4	6.8	50.6	40.6	73.9	53.9	23.3	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%).

Operating mode: Tx 2440MHz 1Mbps Y-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7319.409	44.4	33.9	6.8	51.2	42.1	73.9	53.9	22.7	11.8	Hori.
2	4880.096	42.6	29.8	2.8	45.4	34.0	73.9	53.9	28.5	19.9	Vert.
3	7319.463	48.4	39.1	6.8	55.2	47.3	73.9	53.9	18.7	6.6	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4880.029	43.0	30.5	2.8	45.8	34.7	73.9	53.9	28.1	19.2	Hori.
2	7319.460	48.8	39.5	6.8	55.6	47.7	73.9	53.9	18.3	6.2	Hori.
3	2311.996	46.8	35.5	-3.9	42.9	33.0	73.9	53.9	31.0	20.9	Vert.
4	7319.338	43.9	32.5	6.8	50.7	40.7	73.9	53.9	23.2	13.2	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2351.729	46.2	35.9	-3.5	42.7	33.8	73.9	53.9	31.2	20.1	Hori.
2	7440.536	43.0	30.8	6.9	49.9	39.1	73.9	53.9	24.0	14.8	Hori.
3	7440.376	42.6	29.8	6.9	49.5	38.1	73.9	53.9	24.4	15.8	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7439.375	43.7	31.3	6.9	50.6	39.6	73.9	53.9	23.3	14.3	Hori.
2	4959.965	43.0	31.2	3.0	46.0	35.6	73.9	53.9	27.9	18.3	Vert.
3	7439.350	45.9	35.3	6.9	52.8	43.6	73.9	53.9	21.1	10.3	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 2480MHz 1Mbps Z-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.963	43.2	31.0	3.0	46.2	35.4	73.9	53.9	27.7	18.5	Hori.
2	7439.326	45.4	33.9	6.9	52.3	42.2	73.9	53.9	21.6	11.7	Hori.
3	2352.025	45.8	34.6	-3.5	42.3	32.5	73.9	53.9	31.6	21.4	Vert.
4	2800.052	48.0	30.8	-2.2	45.8	30.0	73.9	53.9	28.1	23.9	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%).

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Operating mode: Tx 2402MHz 2Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.020	42.1	28.2	2.4	44.5	35.4	73.9	53.9	29.4	18.5	Hori.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4803.969	42.6	28.6	2.4	45.0	35.8	73.9	53.9	28.9	18.1	Vert.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4804.670	42.7	28.8	2.4	45.1	36.0	73.9	53.9	28.8	17.9	Hori.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2311.968	46.3	33.9	-3.9	42.4	34.8	73.9	53.9	31.5	19.1	Hori.
2	7318.756	44.1	30.5	6.8	50.9	42.1	73.9	53.9	23.0	11.8	Hori.
3	7318.759	42.9	28.9	6.8	49.7	40.5	73.9	53.9	24.2	13.4	Vert.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7318.767	45.1	31.9	6.8	51.9	43.5	73.9	53.9	22.0	10.4	Hori.
2	7318.787	47.1	35.3	6.8	53.9	46.9	73.9	53.9	20.0	7.0	Vert.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4880.105	42.7	28.8	2.8	45.5	36.4	73.9	53.9	28.4	17.5	Hori.
2	7318.715	48.8	35.9	6.8	55.6	47.5	73.9	53.9	18.3	6.4	Hori.
3	2311.994	46.4	33.4	-3.9	42.5	34.3	73.9	53.9	31.4	19.6	Vert.
4	7318.756	43.4	30.5	6.8	50.2	42.1	73.9	53.9	23.7	11.8	Vert.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2331.958	46.0	32.8	-3.7	42.3	33.9	73.9	53.9	31.6	20.0	Hori.
2	7438.736	42.5	29.3	6.9	49.4	41.0	73.9	53.9	24.5	12.9	Hori.
3	7438.719	41.7	28.2	6.9	48.6	39.9	73.9	53.9	25.3	14.0	Vert.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	7438.386	42.7	29.0	6.9	49.6	40.7	73.9	53.9	24.3	13.2	Hori.
2	4959.355	42.7	29.1	3.0	45.7	36.9	73.9	53.9	28.2	17.0	Vert.
3	7438.664	44.2	31.4	6.9	51.1	43.1	73.9	53.9	22.8	10.8	Vert.

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

Note 2: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	4959.238	42.9	29.2	3.0	45.9	37.0	73.9	53.9	28.0	16.9	Hori.
2	7441.266	44.6	31.2	6.9	51.5	42.9	73.9	53.9	22.4	11.0	Hori.
3	2352.061	45.5	32.9	-3.5	42.0	34.2	73.9	53.9	31.9	19.7	Vert.

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

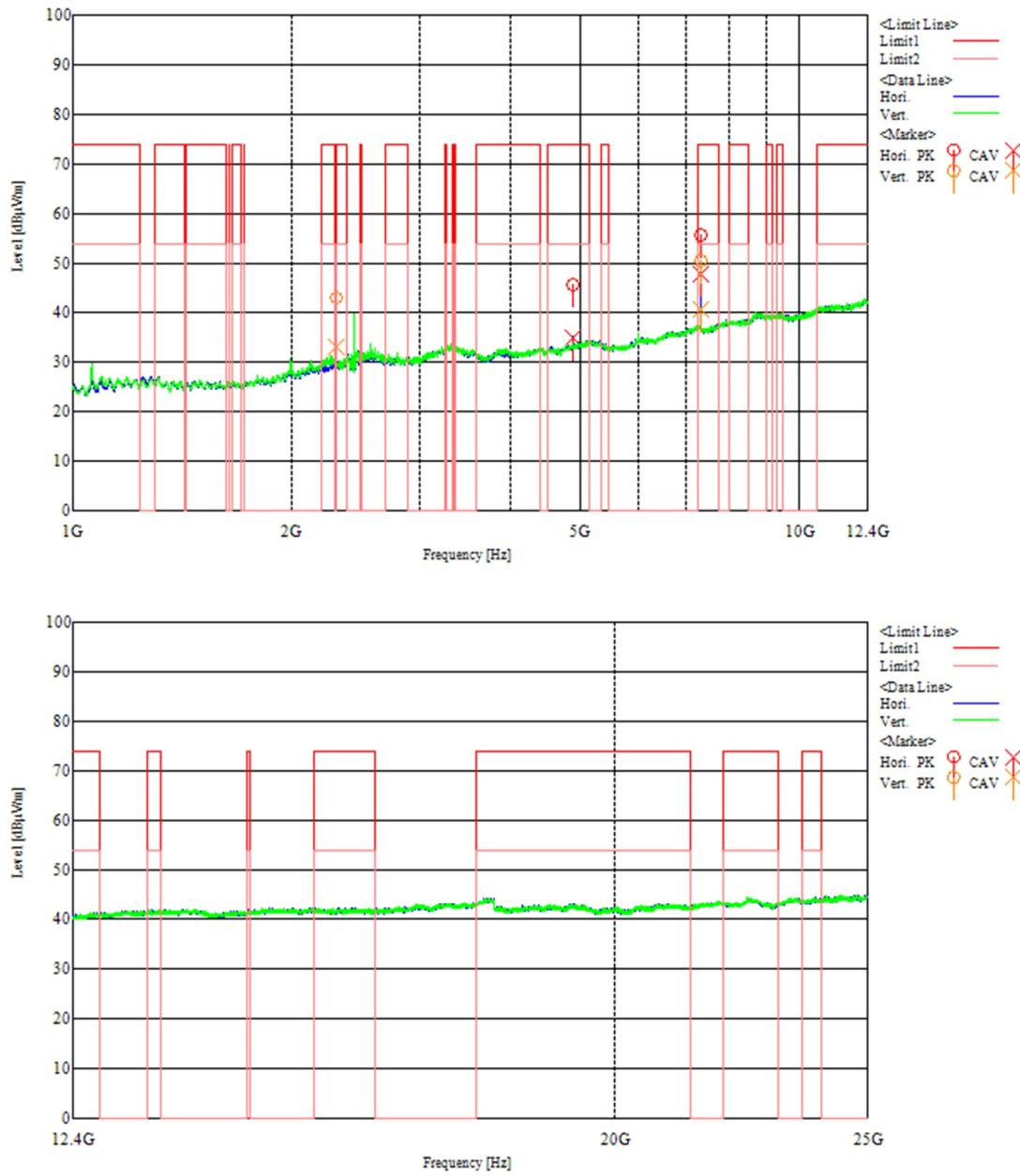
Note 2: 4.8dB was added to the average result as the duty cycle compensation (57%).

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[Chart]

Tx 2440MHz 1Mbps Z-plane



[Day1]

Tested Date: 01 Aug. 2024
Humidity: 59 %Temperature: 25 degC
Atmos. Press: 1004 hPa

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[Day2]

Tested Date: 03 Aug. 2024 Temperature: 25 degC
 Humidity: 59 % Atmos. Press: 1006 hPa

Test Data (Restricted band edge)

Configuration: I

Operating mode: Tx 2402MHz 1Mbps X-plane

[Emission level]

No.	Frequency [MHz]	Reading PK [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	46.6	31.3	4.9	51.5	37.6	73.9	53.9	22.4	16.3	Hori.
2	2390.000	45.9	31.3	4.9	50.8	37.6	73.9	53.9	23.1	16.3	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	46.0	31.3	4.9	50.9	37.6	73.9	53.9	23.0	16.3	Hori.
2	2390.000	45.9	31.3	4.9	50.8	37.6	73.9	53.9	23.1	16.3	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	45.1	31.2	4.9	50.0	37.5	73.9	53.9	23.9	16.4	Hori.
2	2390.000	46.5	31.3	4.9	51.4	37.6	73.9	53.9	22.5	16.3	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	54.7	32.2	5.7	60.4	39.3	73.9	53.9	13.5	14.6	Hori.
2	2483.500	51.9	31.8	5.7	57.6	38.9	73.9	53.9	16.3	15.0	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	52.3	31.8	5.7	58.0	38.9	73.9	53.9	15.9	15.0	Hori.
2	2483.500	51.1	31.7	5.7	56.8	38.8	73.9	53.9	17.1	15.1	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	51.9	31.7	5.7	57.6	38.8	73.9	53.9	16.3	15.1	Hori.
2	2483.500	52.7	31.8	5.7	58.4	38.9	73.9	53.9	15.5	15.0	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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	46.7	31.3	4.9	51.6	41.0	73.9	53.9	22.3	12.9	Hori.
2	2390.000	46.1	31.4	4.9	51.0	41.1	73.9	53.9	22.9	12.8	Vert.

Note: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	47.3	31.4	4.9	52.2	41.1	73.9	53.9	21.7	12.8	Hori.
2	2390.000	46.5	31.4	4.9	51.4	41.1	73.9	53.9	22.5	12.8	Vert.

Note: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2390.000	44.9	31.2	4.9	49.8	40.9	73.9	53.9	24.1	13.0	Hori.
2	2390.000	47.2	31.3	4.9	52.1	41.0	73.9	53.9	21.8	12.9	Vert.

Note: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	54.5	33.0	5.7	60.2	43.5	73.9	53.9	13.7	10.4	Hori.
2	2483.500	51.7	32.3	5.7	57.4	42.8	73.9	53.9	16.5	11.1	Vert.

Note: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	52.7	32.5	5.7	58.4	43.0	73.9	53.9	15.5	10.9	Hori.
2	2483.500	51.7	32.2	5.7	57.4	42.7	73.9	53.9	16.5	11.2	Vert.

Note: 4.8dB 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 [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	2483.500	51.5	32.3	5.7	57.2	42.8	73.9	53.9	16.7	11.1	Hori.
2	2483.500	53.0	32.5	5.7	58.7	43.0	73.9	53.9	15.2	10.9	Vert.

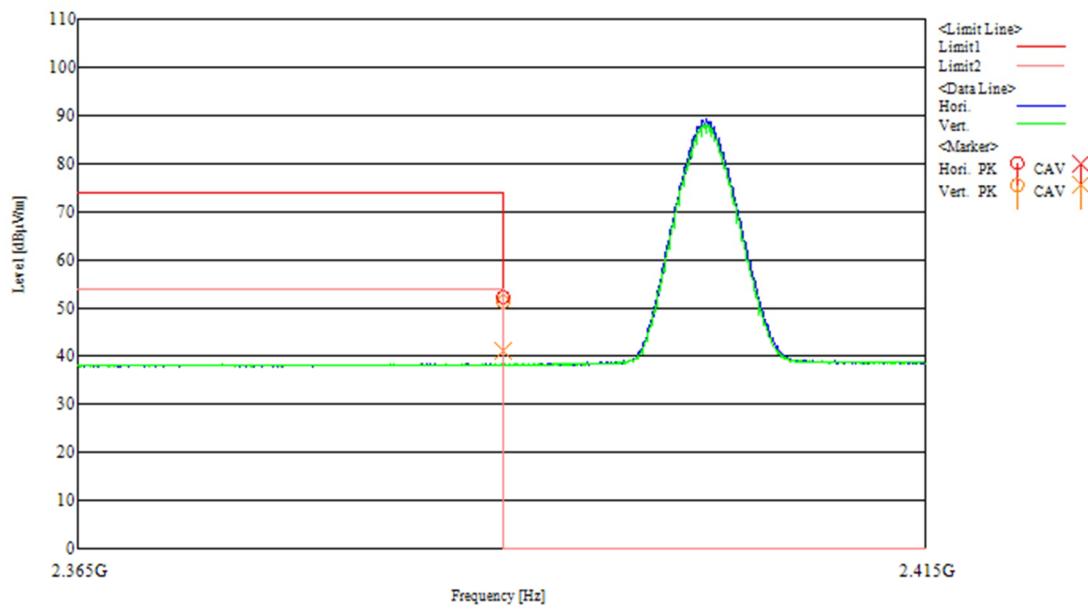
Note: 4.8dB was added to the average result as the duty cycle compensation (57%).

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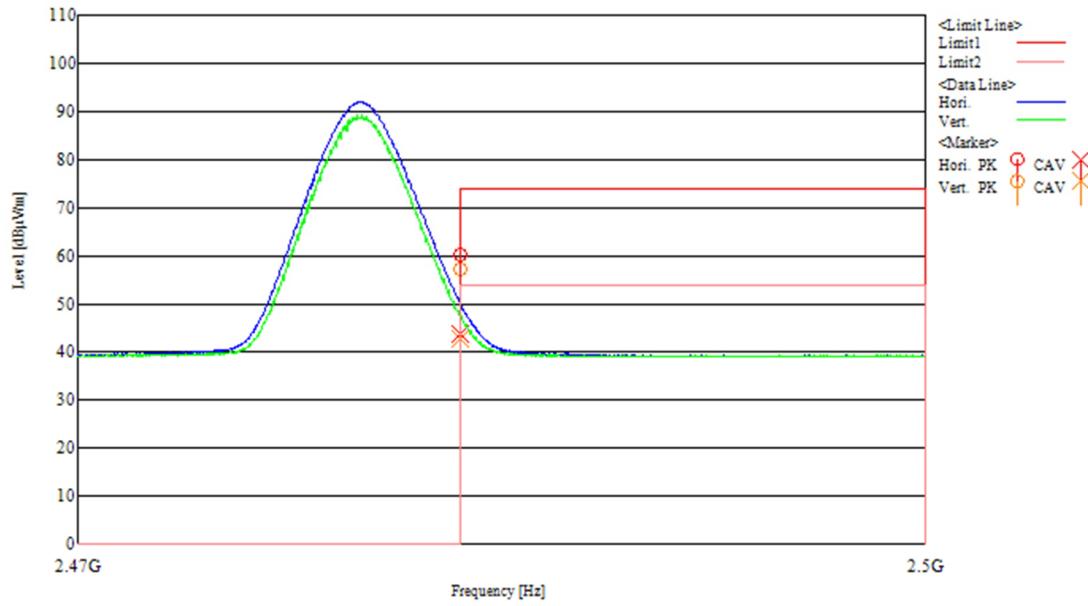
[Chart]

Tx 2402MHz 2Mbps Y-plane



[Chart]

Tx 2480MHz 2Mbps X-plane



Tested Date: 03 Aug. 2024
Humidity: 59 %

Temperature: 25 degC
Atmos. Press: 1006 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.

$$\text{Correction Factor [dB]} = \text{ISN Factor [dB]} + \text{Loss [dB]}$$

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

Test results – Complied with requirement

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Test Data

Configuration: 3

Operating mode: Tx 2402MHz 1Mbps

[Emission level]

	Freq. [MHz]	Reading QP [dB μ V]	Reading Ave [dB μ V]	Factor [dB]	Result QP [dB μ V]	Result Ave [dB μ V]	Limit QP [dB μ V]	Limit Ave [dB μ V]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.22884	33.3	7.7	10.2	43.5	17.9	62.5	52.5	19.0	34.6	Va
2	0.25188	28.5	5.7	10.1	38.6	15.8	61.7	51.7	23.1	35.9	Va
3	0.38652	34.9	30.1	10.1	45.0	40.2	58.1	48.1	13.1	7.9	Va
4	0.22809	34.7	8.5	10.2	44.9	18.7	62.5	52.5	17.6	33.8	Vb
5	0.25840	28.6	5.7	10.1	38.7	15.8	61.5	51.5	22.8	35.7	Vb
6	0.38652	36.5	30.6	10.1	46.6	40.7	58.1	48.1	11.5	7.4	Vb
7	0.68072	21.2	0.2	10.1	31.3	10.3	56.0	46.0	24.7	35.7	Vb

Operating mode: Tx 2440MHz 1Mbps

[Emission level]

	Freq. [MHz]	Reading QP [dB μ V]	Reading Ave [dB μ V]	Factor [dB]	Result QP [dB μ V]	Result Ave [dB μ V]	Limit QP [dB μ V]	Limit Ave [dB μ V]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.23377	31.2	7.4	10.2	41.4	17.6	62.3	52.3	20.9	34.7	Va
2	0.38652	34.8	30.1	10.1	44.9	40.2	58.1	48.1	13.2	7.9	Va
3	0.68444	21.8	0.6	10.1	31.9	10.7	56.0	46.0	24.1	35.3	Va
4	0.22815	34.6	8.4	10.2	44.8	18.6	62.5	52.5	17.7	33.9	Vb
5	0.38652	36.4	30.6	10.1	46.5	40.7	58.1	48.1	11.6	7.4	Vb
6	0.44565	24.4	1.1	10.1	34.5	11.2	57.0	47.0	22.5	35.8	Vb

Operating mode: Tx 2480MHz 1Mbps

[Emission level]

	Freq. [MHz]	Reading QP [dB μ V]	Reading Ave [dB μ V]	Factor [dB]	Result QP [dB μ V]	Result Ave [dB μ V]	Limit QP [dB μ V]	Limit Ave [dB μ V]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.25840	27.0	4.5	10.1	37.1	14.6	61.5	51.5	24.4	36.9	Va
2	0.38589	34.7	30.0	10.1	44.8	40.1	58.2	48.2	13.4	8.1	Va
3	0.45748	26.4	2.4	10.1	36.5	12.5	56.7	46.7	20.2	34.2	Va
4	0.68370	21.8	0.6	10.1	31.9	10.7	56.0	46.0	24.1	35.3	Va
5	0.22708	33.6	7.6	10.2	43.8	17.8	62.6	52.6	18.8	34.8	Vb
6	0.31261	22.1	2.0	10.1	32.2	12.1	59.9	49.9	27.7	37.8	Vb
7	0.38609	36.3	30.6	10.1	46.4	40.7	58.1	48.1	11.7	7.4	Vb
8	0.68073	20.9	0.1	10.1	31.0	10.2	56.0	46.0	25.0	35.8	Vb

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Operating mode: Tx 2402MHz 2Mbps

[Emission level]

	Freq. [MHz]	Reading QP [dB μ V]	Reading Ave [dB μ V]	Factor [dB]	Result QP [dB μ V]	Result Ave [dB μ V]	Limit QP [dB μ V]	Limit Ave [dB μ V]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.22860	32.8	6.4	10.2	43.0	16.6	62.5	52.5	19.5	35.9	Va
2	0.38544	34.5	30.0	10.1	44.6	40.1	58.2	48.2	13.6	8.1	Va
3	0.58779	12.4	-2.9	10.1	22.5	7.2	56.0	46.0	33.5	38.8	Va
4	0.22617	32.4	5.8	10.2	42.6	16.0	62.6	52.6	20.0	36.6	Vb
5	0.38649	36.5	30.9	10.1	46.6	41.0	58.1	48.1	11.5	7.1	Vb
6	0.46508	23.4	0.6	10.1	33.5	10.7	56.6	46.6	23.1	35.9	Vb
7	0.90946	17.9	-1.8	10.1	28.0	8.3	56.0	46.0	28.0	37.7	Vb

Operating mode: Tx 2440MHz 2Mbps

[Emission level]

	Freq. [MHz]	Reading QP [dB μ V]	Reading Ave [dB μ V]	Factor [dB]	Result QP [dB μ V]	Result Ave [dB μ V]	Limit QP [dB μ V]	Limit Ave [dB μ V]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.23240	32.0	6.5	10.2	42.2	16.7	62.4	52.4	20.2	35.7	Va
2	0.38695	34.8	30.3	10.1	44.9	40.4	58.1	48.1	13.2	7.7	Va
3	0.47614	22.1	0.9	10.1	32.2	11.0	56.4	46.4	24.2	35.4	Va
4	0.23116	34.2	7.8	10.2	44.4	18.0	62.4	52.4	18.0	34.4	Vb
5	0.38652	36.4	30.9	10.1	46.5	41.0	58.1	48.1	11.6	7.1	Vb
6	0.40946	27.4	2.8	10.1	37.5	12.9	57.7	47.7	20.2	34.8	Vb
7	0.45516	26.2	1.6	10.1	36.3	11.7	56.8	46.8	20.5	35.1	Vb

Operating mode: Tx 2480MHz 2Mbps

[Emission level]

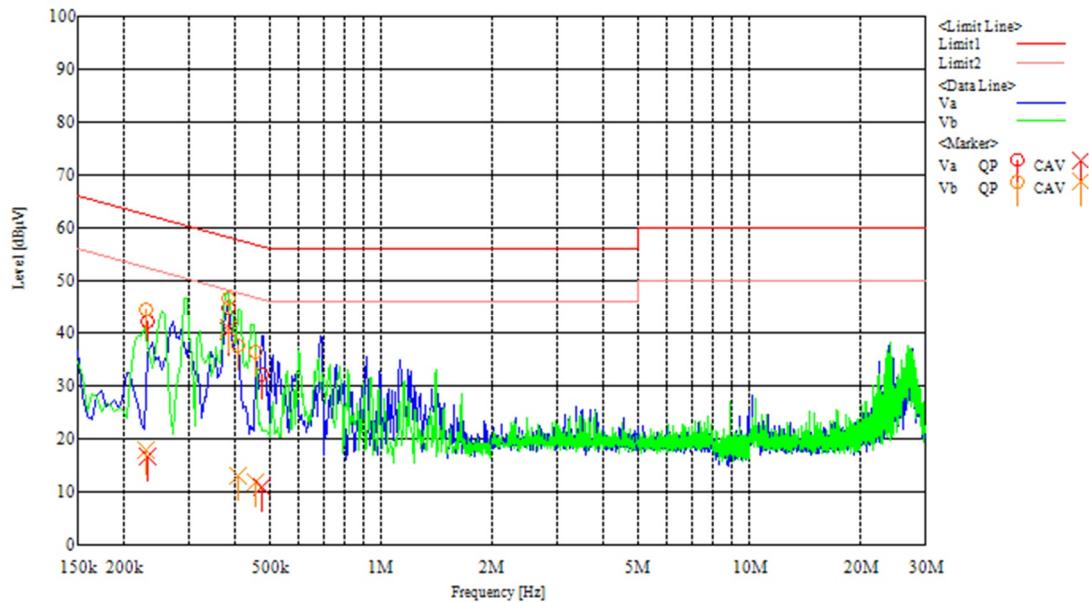
	Freq. [MHz]	Reading QP [dB μ V]	Reading Ave [dB μ V]	Factor [dB]	Result QP [dB μ V]	Result Ave [dB μ V]	Limit QP [dB μ V]	Limit Ave [dB μ V]	Margin QP [dB]	Margin Ave [dB]	Line
1	0.22719	31.8	5.4	10.2	42.0	15.6	62.6	52.6	20.6	37.0	Va
2	0.38712	34.8	30.3	10.1	44.9	40.4	58.1	48.1	13.2	7.7	Va
3	0.45948	25.0	1.3	10.1	35.1	11.4	56.7	46.7	21.6	35.3	Va
4	0.51558	17.6	-1.3	10.1	27.7	8.8	56.0	46.0	28.3	37.2	Va
5	0.22992	34.2	7.6	10.2	44.4	17.8	62.5	52.5	18.1	34.7	Vb
6	0.38584	36.4	30.8	10.1	46.5	40.9	58.2	48.2	11.7	7.3	Vb
7	0.46954	23.1	0.9	10.1	33.2	11.0	56.5	46.5	23.3	35.5	Vb

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[Chart]

Operating mode: Tx 2440MHz 2Mbps



Tested Date: 15 Aug. 2024
Humidity: 48 %

Temperature: 27 degC
Atmos. Press: 1001 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	-2.2 dBi [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	-	2024/03/29	2025/03/31
AC01(EG)	Anechoic Chamber (1st test room)	JSE	203397C	-	2024/03/22	2025/03/31
BA07	Biological Antenna	TESEQ	CBL6143A	26670	2024/03/11	2025/03/31
CL11	RF Cable for RE	RFT	-	-	2024/03/05	2025/03/31
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
DH07	DRG Horn Antenna	A.H. Systems	SAS-571	1939	2024/02/08	2026/02/28
SH01	Standard Horn Antenna (18-26G)	A.H. Systems	SAS-572	208	2024/07/16	2025/07/31
SH05	Standard Horn Antenna (12-18G)	A.H. Systems	SAS-586	214	2024/07/16	2025/07/31
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	2024/03/12	2025/03/31
BRF12	Band Reject Filter (2400MHz)	M-City	BRF2440-01	RF0012-02	2024/03/19	2025/03/31
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	2024/03/19	2025/03/31
LP06	Loop Antenna	ETS-Lindgren	6502	00164299	2023/10/20	2024/10/31
AT17	Attenuator	JFW	50HF-006N	-	2024/03/05	2025/03/31
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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