

TEST REPORT

For

Drive recorder

In conformity with

FCC Part 15C/ RSS-247 Issue 3

Model Name:

EDR-22GK-A

Family Model Name:

EDR-22GK-B, EDR-22G

FCC ID:

2BDMMEDR22GKGFC

IC:

31660-EDR22GKGFC

Report No.:

WE230825CB1-12

Issue Date:

07 Jan. 2025

Prepared for

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History

Report No.	Date	Revisions	Issued By
WE230825CB1-11	18 Dec. 2024	Initial Issue	N. Inokawa
WE230825CB1-12	07 Jan. 2025	Added e.i.r.p. results in section 2.3 Revised accreditation information in section 1.3	N. Inokawa

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1 General information

1.1 Product description from supplier

Test item	: Drive recorder
Manufacturer	: ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.
Address	: Floor 6, New Workshop, No.6, Lvyuan Road, Nanping Science and Technology Industrial Park, Zhuhai City, Guangdong Province, China
Model	: EDR-22GK-A
Family Model	: EDR-22GK-B, EDR-22G
FCC ID	: 2BDMEDR22GKGFC
IC	: 31660-EDR22GKGFC
Serial number	: 22GK-A4 (EDR-22GK-A, for conducted test) A1 (EDR-22GK-A, for radiated test) B17 (EDR-22GK-B, for radiated test) : 21 (EDR-22G, for radiated test)
Hardware version	: EDR-22GK&22G_V4.0.1
Software version	: EDR-22GK_V9.0.5 / EDR-22G_V9.0.5
Operating frequency	: 2412 - 2462 MHz (IEEE 802.11b/g/n_HT20) 2422 - 2452 MHz (IEEE 802.11n_HT40)
Modulation	: DSSS-CCK/DQPSK/DBPSK (11b) OFDM-64QAM/16QAM/QPSK/BPSK (11g/n)
Antenna type	: FPC PCBA
Antenna gain	: 0.5 dBi
Rated RF output power	: 8.5 dBm (11b) 12.5 dBm (11g) 14.0 dBm (11n)
Receipt date of EUT	: 20 Dec. 2023 (22GK-A4) 04 Sep. 2024 (A1, B17 and 21)

Nominal power source voltages : DC 12V

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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	: 11 Jan. 2024
Test(s) completed	: 19 Sep. 2024

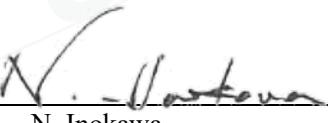
Summary of test result : Complied

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

: 
T. Takei
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 JP5227 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 **American Association for Laboratory Accreditation** (A2LA) for the emission tests stated in the scope of the certificate under Certificate Number 7080.01

This report must not be used by the client to claim product certification, approval, or endorsement by A2LA, 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)	Not Applicable*	2.7
Antenna requirement	15.203	6.8 (RSS-Gen)	Complied	2.8

Not Applicable*: EUT operates on battery power only.

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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	Main control unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	EDR-22GK	A1
1-2	Main control unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	EDR-22GK	B17
1-3	Main control unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	EDR-22G	21
1-4	Main control unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	EDR-22GK	22GK-A4

Accessories, Support equipment(s)

No.	Item	Manufacture	Model No.	Serial No.
2-1	Camera unit, front	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647F-A	A1
2-2	Camera unit, front	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647F-B	B17
2-3	Camera unit, front	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647F	21
2-4	Camera unit, front	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647F-A	22GK-A4
3-1	Camera unit, rear	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647R-A	A1
3-2	Camera unit, rear	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647R-B	B17
3-3	Camera unit, rear	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647R	21
3-4	Camera unit, rear	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	647R-A	22GK-A4
4-1	SW & indicator unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	SW4731-A	A1
4-2	SW & indicator unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	SW4731-B	B17
4-3	SW & indicator unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	SW4731	21
4-4	SW & indicator unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	SW4731-A	22GK-A4
5-1	GPS/GNSS unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	GPS4731-A	A1
5-2	GPS/GNSS unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	GPS4731-B	B17
5-3	GPS/GNSS unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	GPS4731	21
5-4	GPS/GNSS unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	GPS4731-A	22GK-A4
6-1	Power supply unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	PS4731-A	A1
6-2	Power supply unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	PS4731-B	B17
6-3	Power supply unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	PS4731	21
6-4	Power supply unit	ZHUHAI DYNAMIC ELECTRONIC CO.,LTD.	PS4731-A	22GK-A4
7	USB to TTL adapter	DONG GUAN DESHIDE TECHNOLOGY CO, LTD	SH-U09C5	B07WXD SVB
8	PC	Toshiba	R63/B	ZG081213 H
9	AC adapter	Toshiba	PA5177U-1ACA	G71C000 GX210

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Connected cable(s)

No.	Item	From	To	Cable Shielded	Ferrite Core	Length [m]
A	Signal cable	1-1/1-4	2-1/2-4	Yes	Yes	2.2
B	Signal cable	1-1/1-4	3-1/3-4	Yes	Yes	1.6
C	Signal cable	1-1/1-4	4-1/4-4	Yes	No	2.2
D	Signal cable	1-1/1-4	5-1/5-4	Yes	No	2.1
E	DC cable	1-1/1-2/1-4	6-1/6-2/6-4	Yes	No	0.6
F	DC cable	6-1/6-2/6-3/6-4	DC	No	No	0.6
G	Signal cable	1-2	2-2	Yes	Yes	0.7
H	Signal cable	1-2	3-2	Yes	Yes	2.5
I	Signal cable	1-2	4-2	Yes	No	1.3
J	Signal cable	1-2	5-2	Yes	No	0.6
K	Signal cable	1-3	2-3	Yes	Yes	2.0
L	Signal cable	1-3	3-3	Yes	Yes	1.5
M	Signal cable	1-3	4-3	Yes	No	2.0
N	Signal cable	1-3	5-3	Yes	No	2.0
O	DC cable	1-3	6-3	Yes	No	0.7
P	Signal cable	1-4	7	Yes	No	0.2
Q	DC cable	8	9	No	No	1.7
R	AC cable	9	AC	No	No	1.0

Test software

SecureCRT Version 9.4.3 with the commands provided by the manufacturer to achieve the following test modes;

- EUT is in transmission mode of IEEE802.11b (with 97 % duty cycle)
- EUT is in transmission mode of IEEE802.11g (with 97 % duty cycle)
- EUT is in transmission mode of IEEE802.11n_HT20 (with 97 % duty cycle)
- EUT is in transmission mode of IEEE802.11n_HT40 (with 96 % duty cycle)

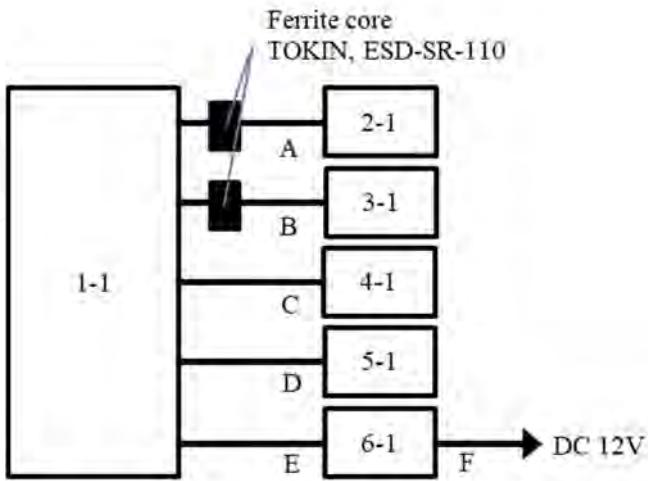
No specific commands are provided for transmitter power settings. The default transmitter power settings were used for all test modes.

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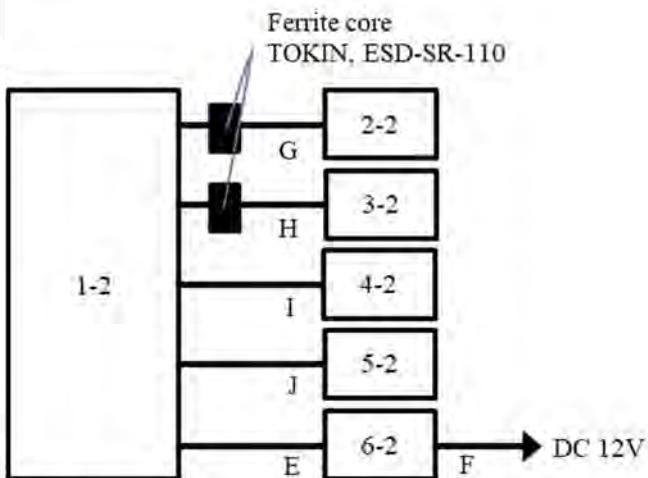
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1.6.2 Setup diagram of tested system

[Configuration 1 / EDR-22GK-A]



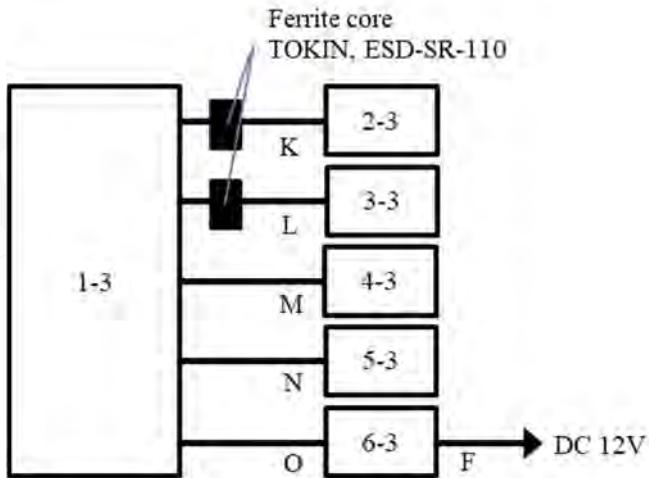
[Configuration 2 / EDR-22GK-B]



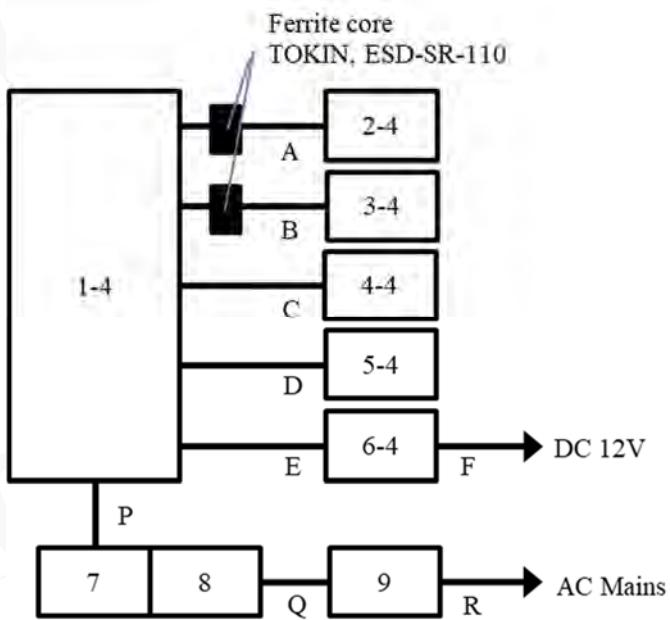
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[Configuration 3 / EDR-22G]



[Configuration 4 / EDR-22GK-A]



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1.6.3 Operating condition

Pre-scan was performed to determine the worst-case modulation/data rate settings for a given IEEE802.11 operating mode.

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

Test items	Mode	Data rate or MCS	Channel
6dB/99% Bandwidth, Maximum output power, Power spectrum density, Conducted spurious emissions, Radiated emissions	11b	1 Mbps	1/6/11
	11g	6 Mbps	1/6/11
	11n HT20	MCS0	1/6/11
	11n HT40	MCS0	3/6/9
	11b	1 Mbps	1/11
Radiated emissions, Restricted band edge	11g	6 Mbps	1/11
	11n HT20	MCS0	1/11
	11n HT40	MCS0	3/9

For EDR-22GK-A shown in Configuration 1 and Configuration 4, the above test items were fully tested and the results are presented in this test report.

According to the applicant's declaration, EDR-22GK-A, EDR-22GK-B and EDR-22G use the same Wi-Fi module (model: BL-R8199ME1). Radiated emission tests were then performed on EDR-22GK-B shown in Configuration 2 and EDR-22G shown in Configuration 3, and the results are presented in this test report.

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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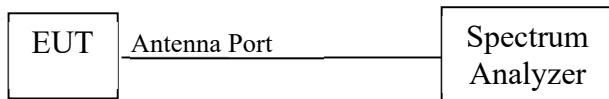
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2 Test procedure and test data

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	AT38	-
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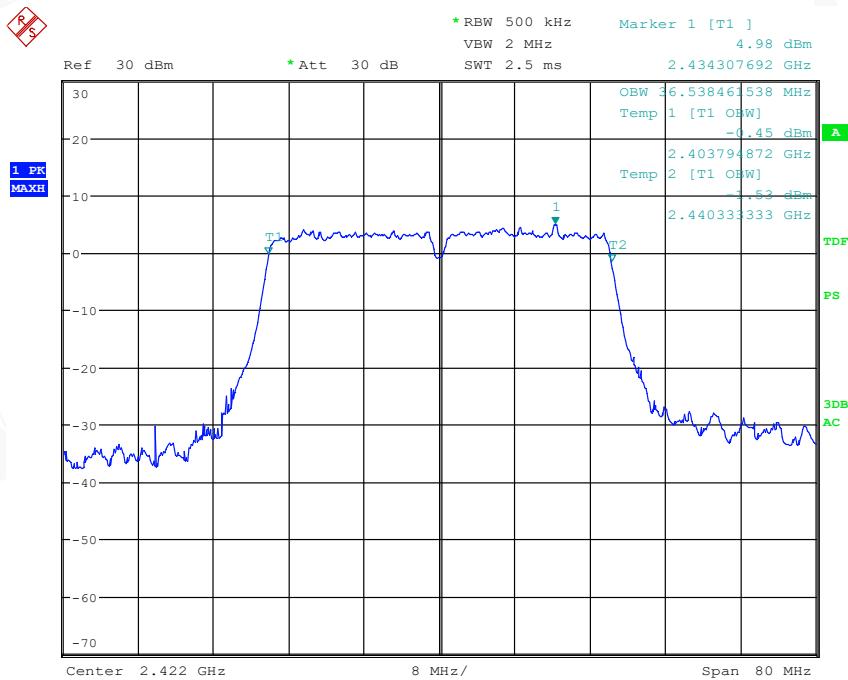
Test results

Test configuration: Configuration 4

Mode	Transmission Frequency [MHz]	Occupied Bandwidth [kHz]
11b	2412	15385
	2437	15385
	2462	15385
11g	2412	17500
	2437	17500
	2462	17436
11n_HT20	2412	18462
	2437	18526
	2462	18590
11n_HT40	2422	36538
	2437	36154
	2452	36154

[Chart]

Operating condition: Tx 2422MHz 11n_HT40



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Tested Date: 11 Jan. 2024 Temperature: 21 degC
Humidity: 25 % Atmos. Press: 1010 hPa

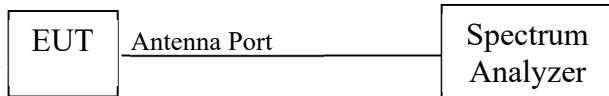
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2.2 6dB Bandwidth

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	AT38	-
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Test results - Complied with requirement

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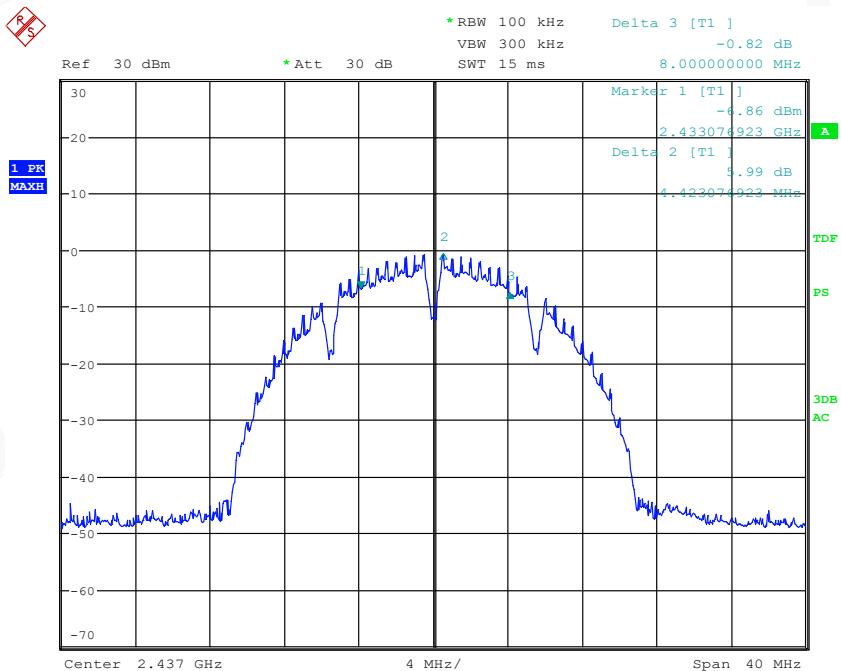
Test data

Test configuration: Configuration 4

Mode	Transmission Frequency [MHz]	6dB Bandwidth [kHz]	Result
11b	2412	8269	Pass
	2437	8000	Pass
	2462	8256	Pass
11g	2412	16346	Pass
	2437	16462	Pass
	2462	16462	Pass
11n_HT20	2412	17308	Pass
	2437	17551	Pass
	2462	17679	Pass
11n_HT40	2422	36538	Pass
	2437	35385	Pass
	2452	35385	Pass

[Chart]

Operating condition: Tx 2412MHz 11b



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Tested Date: 11 Jan. 2024 Temperature: 21 degC
Humidity: 25 % Atmos. Press: 1010 hPa

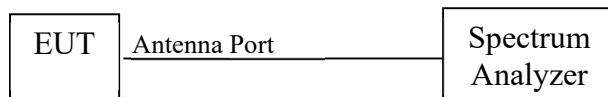
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2.3 Maximum Conducted Output Power and equivalent isotropically radiated power (e.i.r.p.)

Test setup

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



Test procedure

For peak power measurements, spectrum analyzer is set as below according to ANSI C63.10 clause 11.9.1.2

- RBW = 1MHz
- VBW > 3 x RBW
- Span > 1.5 x DTS bandwidth
- Detector : Peak
- Trace : Max hold

Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges.

For average power measurements, spectrum analyzer is set as below according to ANSI C63.10 clause 11.9.2.2

- RBW: 1% to 5% of OBW
- VBW > 3 x RBW
- Span: more than 1.5 times of OBW
- Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$
- Detector: RMS
- Trace : average at least 100 traces

Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function with band limits set equal to the OBW band edges.

Add $[10 \log (1 / D)]$, where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

Applicable rule and limitation

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

For systems using digital modulation in the 2400-2483.5 MHz band: 1 Watt (30 dBm).

The e.i.r.p. shall not exceed 4 W (36 dBm).

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

TR06	CL31	AT38	-
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Test results - Complied with requirement

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Test Data

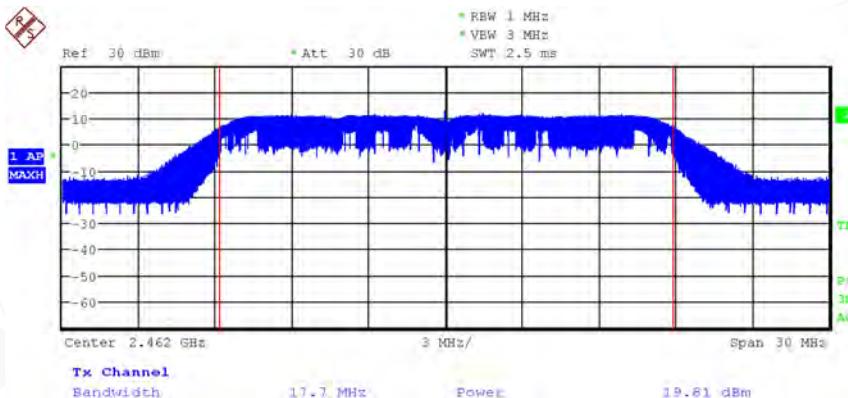
Maximum peak output power and e.i.r.p.(calculated)

Test configuration: Configuration 4

Mode	Transmission Frequency [MHz]	Output Power [dBm]	Antenna gain [dBi]	e.i.r.p. [dBm]	Result
11b	2412	9.23	0.5	9.73	Pass
	2437	9.44	0.5	9.94	Pass
	2462	9.91	0.5	10.41	Pass
11g	2412	18.52	0.5	19.02	Pass
	2437	18.92	0.5	19.42	Pass
	2462	19.20	0.5	19.70	Pass
11n_HT20	2412	19.23	0.5	19.73	Pass
	2437	19.52	0.5	20.02	Pass
	2462	19.81	0.5	20.31	Pass
11n_HT40	2422	18.74	0.5	19.24	Pass
	2437	18.92	0.5	19.42	Pass
	2452	19.03	0.5	19.53	Pass

[Chart]

Operating condition: Tx 2462MHz 11n_HT20



Tested Date: 11 Jan. 2024
 Humidity: 25 %

Temperature: 21 degC
 Atmos. Press: 1010 hPa

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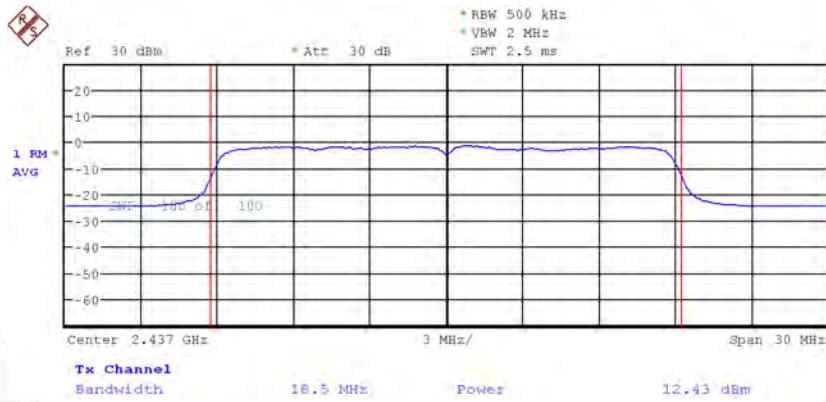
Maximum conducted (average) output power

Test configuration: Configuration 4

Mode	Transmission Frequency [MHz]	Output Power (Reading)[dBm]	10 log (1 / D)	Output Power (Result)[dBm]	Result
11b	2412	7.21	0.12	7.33	Pass
	2437	7.51	0.12	7.63	Pass
	2462	7.93	0.12	8.05	Pass
11g	2412	11.53	0.14	11.67	Pass
	2437	12.20	0.14	12.34	Pass
	2462	12.24	0.14	12.38	Pass
11n_HT20	2412	12.12	0.13	12.25	Pass
	2437	12.43	0.13	12.56	Pass
	2462	12.10	0.13	12.23	Pass
11n_HT40	2422	12.35	0.18	12.53	Pass
	2437	11.95	0.18	12.13	Pass
	2452	11.97	0.18	12.15	Pass

[Chart]

Operating condition: Tx 2437MHz 11n_HT20



Tested Date: 11 Jan. 2024

Humidity: 25 %

Temperature: 21 degC

Atmos. Press: 1010 hPa

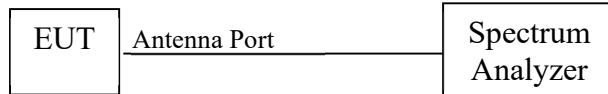
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2.4 Power Spectral Density

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: $3\text{kHz} \leq \text{RBW} \leq 100\text{ kHz}$
- 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	AT38	-
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Test results - Complied with requirement

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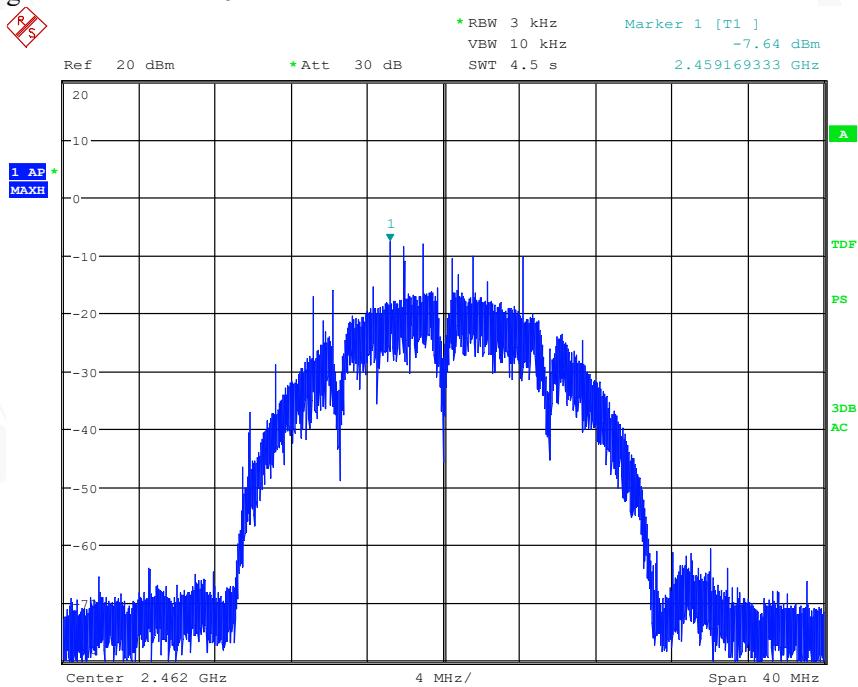
Test Data

Test configuration: Configuration 4

Mode	Transmission Frequency [MHz]	Power Spectral Density [dBm/3kHz]	Result
11b	2412	-8.70	Pass
	2437	-7.65	Pass
	2462	-7.64	Pass
11g	2412	-13.29	Pass
	2437	-12.47	Pass
	2462	-12.20	Pass
11n_HT20	2412	-12.63	Pass
	2437	-11.66	Pass
	2462	-12.59	Pass
11n_HT40	2422	-15.07	Pass
	2437	-14.59	Pass
	2452	-13.68	Pass

[Chart]

Operating condition: Tx 2462MHz 11b



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Tested Date: 11 Jan. 2024 Temperature: 21 degC
Humidity: 25 % Atmos. Press: 1010 hPa

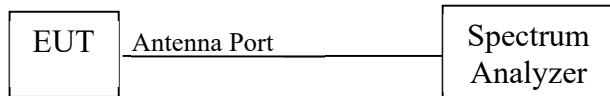
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2.5 Conducted Spurious Emissions

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	AT33	-
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Test results - Complied with requirement

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Test Data

Test configuration: Configuration 4

Operating mode: Tx 2412MHz 11b

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2400.00	-45.17	-0.58	-20.58
-	-	-	-

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

Operating mode: Tx 2437MHz 11b

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-

Note: All emissions have more than 20 dB margin.

Operating mode: Tx 2462MHz 11b

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.50	-45.91	0.47	-19.53
2491.09	-41.67	0.47	-19.53
-	-	-	-

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

Operating mode: Tx 2412MHz 11g

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2398.76	-42.50	2.06	-17.94
2400.00	-40.79	2.06	-17.94
-	-	-	-

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

Operating mode: Tx 2437MHz 11g

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-

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

Operating mode: Tx 2462MHz 11g

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.50	-42.97	2.27	-17.73
2483.51	-42.03	2.27	-17.73
-	-	-	-

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

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Operating mode: Tx 2412MHz 11n HT20

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2398.57	-41.44	2.28	-17.72
2400.00	-39.08	2.28	-17.72
-	-	-	-

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

Operating mode: Tx 2437MHz 11n HT20

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-

Note: All emissions have more than 20 dB margin.

Operating mode: Tx 2462MHz 11n HT20

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2483.50	-39.03	3.18	-16.82
2483.53	-36.58	3.18	-16.82
-	-	-	-

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

Operating mode: Tx 2422MHz 11n HT40

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2399.98	-38.83	0.12	-19.88
2400.00	-40.82	0.12	-19.88
-	-	-	-

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

Operating mode: Tx 2437MHz 11n HT40

Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
-	-	-	-

Note: All emissions have more than 20 dB margin.

Operating mode: Tx 2452MHz 11n HT40

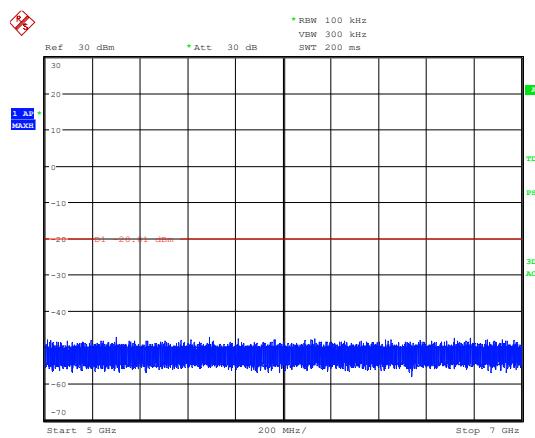
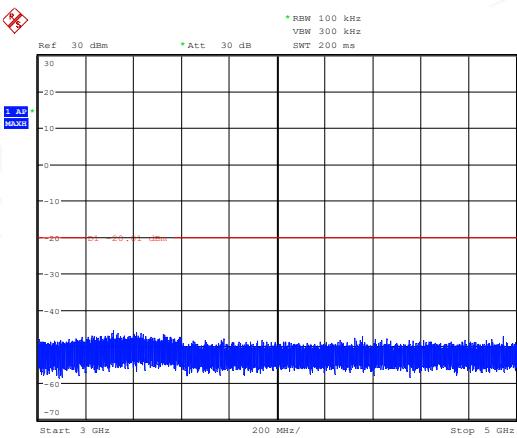
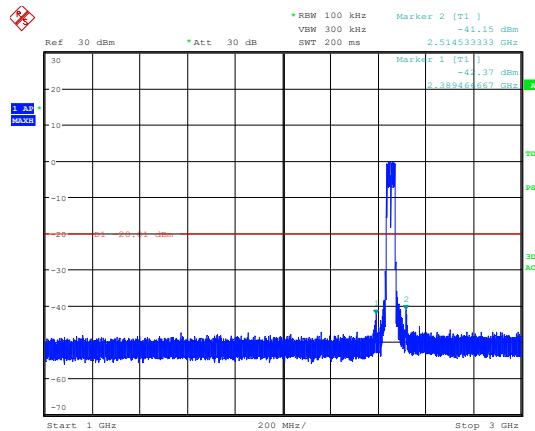
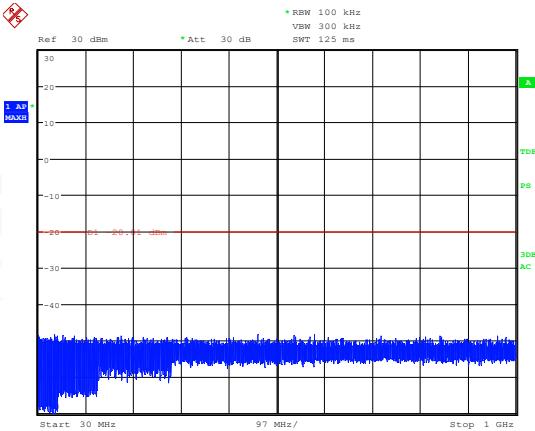
Frequency [MHz]	Spurious level [dBm]	Carrier level [dBm]	20dB below [dBm]
2389.47	-42.37	-0.01	-20.01
2483.50	-40.20	-0.01	-20.01
2484.00	-36.88	-0.01	-20.01
2484.63	-36.97	-0.01	-20.01
2514.53	-41.15	-0.01	-20.01

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

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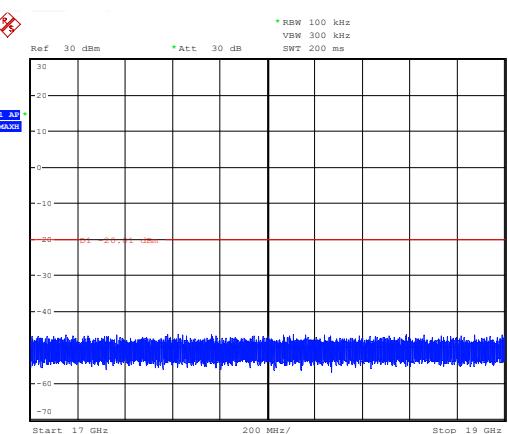
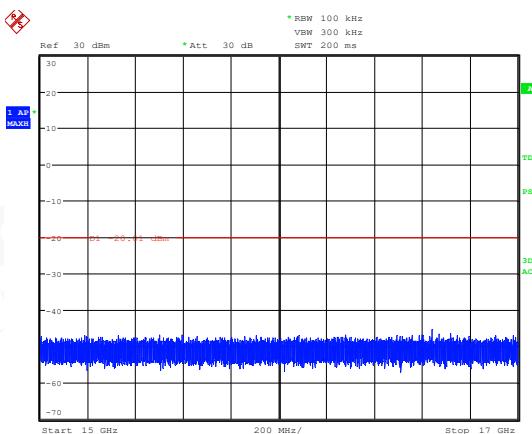
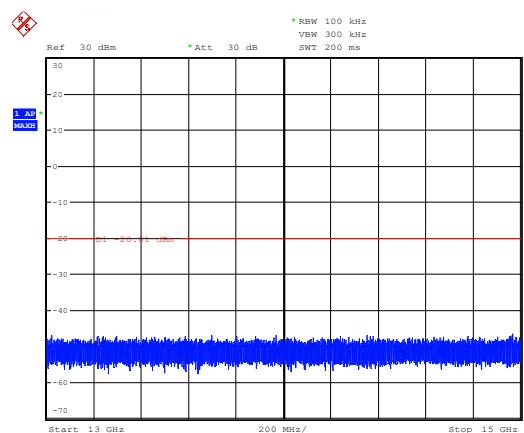
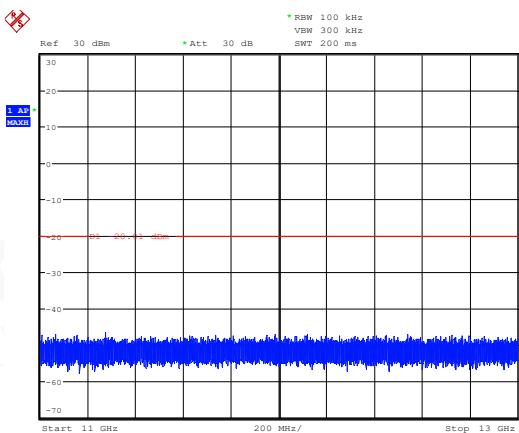
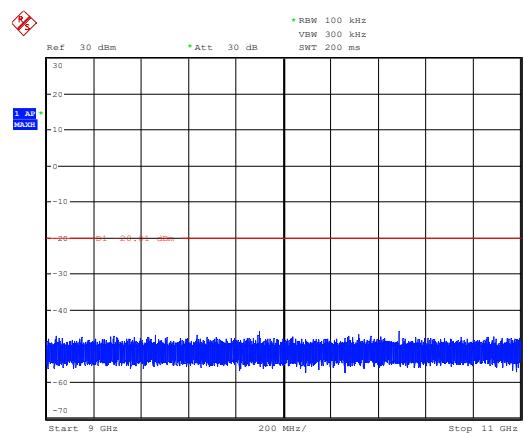
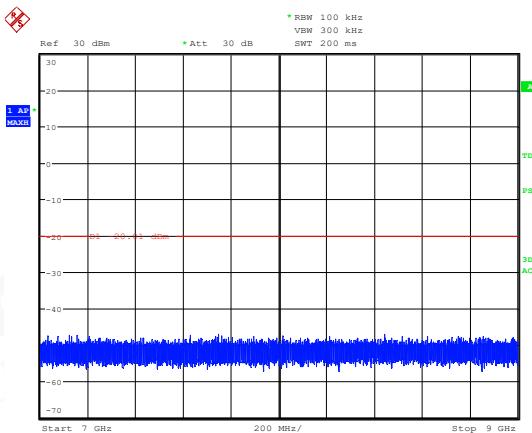
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[Chart] Tx 2452MHz 11n_HT40



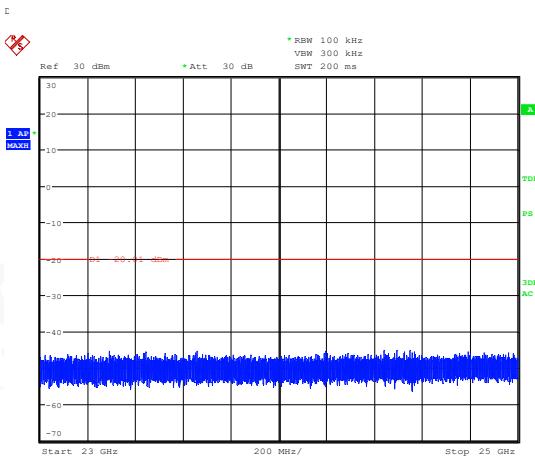
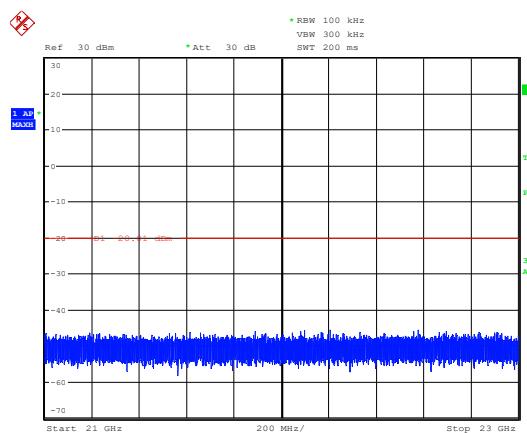
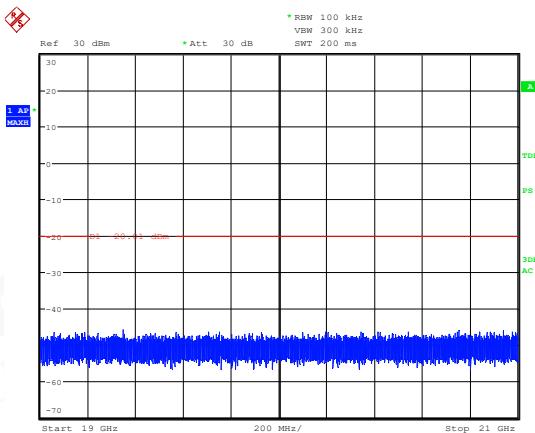
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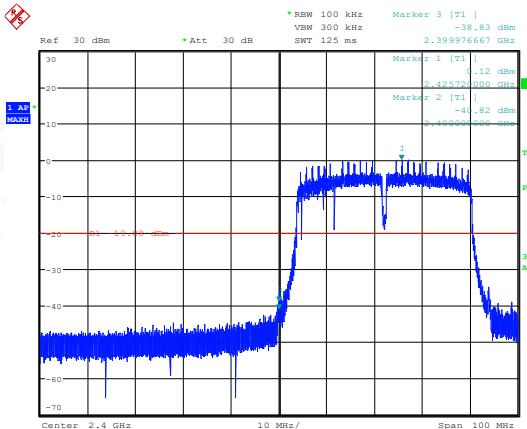


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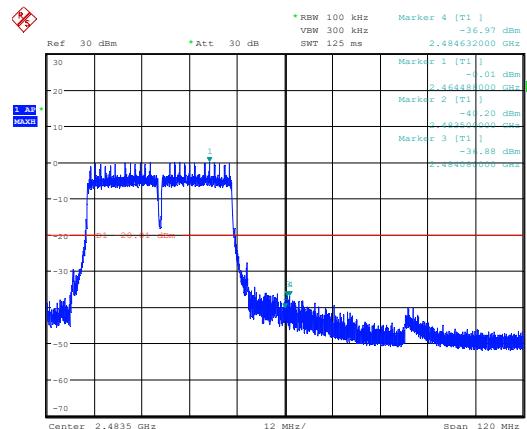
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[Band edge]

Tx 2402MHz 2Mbps



Tx 2452MHz 11n_HT40



Tested Date: 12 Jan. 2024
 Humidity: 27 %

Temperature: 21 degC
 Atmos. Press: 1005 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
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.

Correction Factor [dB/m] = Ant. Factor [dB/m] + Loss [dB] – Gain [dB]

Result [dB μ V/m] = Reading [dB μ V] + Correction Factor [dB/m]

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Test Data (below 1000MHz)

Test configuration: Configuration 1

Operating mode: Tx 2412MHz 11b 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	603.524	34.8	18.4	11.9	30.2	34.9	46.0	11.1	Hori.
2	624.003	38.9	18.6	11.9	30.2	39.2	46.0	6.8	Hori.
3	479.995	44.3	17.1	10.8	30.2	42.0	46.0	4.0	Vert.
4	520.218	40.7	17.1	11.1	30.2	38.7	46.0	7.3	Vert.
5	600.235	36.7	18.5	11.9	30.2	36.9	46.0	9.1	Vert.
6	624.010	42.4	18.6	11.9	30.2	42.7	46.0	3.3	Vert.

Operating mode: Tx 2412MHz 11b 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	480.011	40.7	17.1	10.8	30.2	38.4	46.0	7.6	Hori.
2	378.583	43.6	15.0	10.2	30.3	38.5	46.0	7.5	Vert.
3	429.309	42.9	16.1	10.5	30.2	39.3	46.0	6.7	Vert.
4	480.005	43.4	17.1	10.8	30.2	41.1	46.0	4.9	Vert.
5	524.942	40.0	17.2	11.2	30.2	38.2	46.0	7.8	Vert.
6	542.497	39.7	18.1	11.3	30.2	38.9	46.0	7.1	Vert.

Operating mode: Tx 2412MHz 11b 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	432.011	42.2	16.1	10.5	30.2	38.6	46.0	7.4	Hori.
2	624.008	42.7	18.6	11.9	30.2	43.0	46.0	3.0	Hori.
3	789.873	35.8	19.7	12.5	30.1	37.9	46.0	8.1	Hori.
4	437.976	42.6	16.1	10.6	30.2	39.1	46.0	6.9	Vert.
5	534.576	39.4	17.4	11.2	30.2	37.8	46.0	8.2	Vert.
6	600.441	41.3	18.5	11.9	30.2	41.5	46.0	4.5	Vert.

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Operating mode: Tx 2437MHz 11b 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	432.004	43.8	16.1	10.5	30.2	40.2	46.0	5.8	Hori.
2	480.005	41.1	17.1	10.8	30.2	38.8	46.0	7.2	Hori.
3	960.000	35.9	20.9	13.3	28.8	41.3	46.0	4.7	Hori.
4	431.998	47.3	16.1	10.5	30.2	43.7	46.0	2.3	Vert.
5	576.000	40.5	18.5	11.6	30.2	40.4	46.0	5.6	Vert.
6	624.008	42.2	18.6	11.9	30.2	42.5	46.0	3.5	Vert.

Operating mode: Tx 2437MHz 11b 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	527.948	38.3	17.2	11.2	30.2	36.5	46.0	9.5	Hori.
2	431.995	43.2	16.1	10.5	30.2	39.6	46.0	6.4	Vert.
3	455.597	39.8	16.5	10.7	30.2	36.8	46.0	9.2	Vert.
4	480.001	44.6	17.1	10.8	30.2	42.3	46.0	3.7	Vert.
5	490.448	38.3	17.2	10.9	30.2	36.2	46.0	9.8	Vert.
6	542.678	39.8	18.1	11.3	30.2	39.0	46.0	7.0	Vert.

Operating mode: Tx 2437MHz 11b 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	480.013	43.9	17.1	10.8	30.2	41.6	46.0	4.4	Hori.
2	575.982	40.0	18.5	11.6	30.2	39.9	46.0	6.1	Hori.
3	602.447	41.1	18.5	11.9	30.2	41.3	46.0	4.7	Hori.
4	786.559	37.2	19.7	12.5	30.1	39.3	46.0	6.7	Hori.
5	576.011	42.3	18.5	11.6	30.2	42.2	46.0	3.8	Vert.
6	602.865	39.7	18.5	11.9	30.2	39.9	46.0	6.1	Vert.

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Operating mode: Tx 2462MHz 11b 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	479.992	42.5	17.1	10.8	30.2	40.2	46.0	5.8	Hori.
2	624.001	38.8	18.6	11.9	30.2	39.1	46.0	6.9	Hori.
3	432.003	47.2	16.1	10.5	30.2	43.6	46.0	2.4	Vert.
4	480.005	45.8	17.1	10.8	30.2	43.5	46.0	2.5	Vert.
5	530.276	39.8	17.3	11.2	30.2	38.1	46.0	7.9	Vert.
6	624.013	43.7	18.6	11.9	30.2	44.0	46.0	2.0	Vert.

Operating mode: Tx 2462MHz 11b 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	432.006	46.2	16.1	10.5	30.2	42.6	46.0	3.4	Vert.
2	437.028	39.9	16.1	10.6	30.2	36.4	46.0	9.6	Vert.
3	460.226	39.9	16.6	10.7	30.2	37.0	46.0	9.0	Vert.
4	480.008	42.0	17.1	10.8	30.2	39.7	46.0	6.3	Vert.
5	547.068	39.5	18.5	11.3	30.2	39.1	46.0	6.9	Vert.
6	576.003	40.4	18.5	11.6	30.2	40.3	46.0	5.7	Vert.

Operating mode: Tx 2462MHz 11b 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	479.990	43.0	17.1	10.8	30.2	40.7	46.0	5.3	Hori.
2	602.631	41.4	18.5	11.9	30.2	41.6	46.0	4.4	Hori.
3	791.471	37.9	19.7	12.5	30.1	40.0	46.0	6.0	Hori.
4	432.006	45.6	16.1	10.5	30.2	42.0	46.0	4.0	Vert.
5	575.997	42.1	18.5	11.6	30.2	42.0	46.0	4.0	Vert.
6	601.758	39.5	18.5	11.9	30.2	39.7	46.0	6.3	Vert.

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Operating mode: Tx 2412MHz 11g 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	432.004	43.7	16.1	10.5	30.2	40.1	46.0	5.9	Hori.
2	480.002	39.3	17.1	10.8	30.2	37.0	46.0	9.0	Hori.
3	343.272	43.0	13.9	10.0	30.2	36.7	46.0	9.3	Vert.
4	431.998	47.5	16.1	10.5	30.2	43.9	46.0	2.1	Vert.
5	480.001	43.2	17.1	10.8	30.2	40.9	46.0	5.1	Vert.
6	575.997	41.0	18.5	11.6	30.2	40.9	46.0	5.1	Vert.

Operating mode: Tx 2412MHz 11g 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	432.010	45.9	16.1	10.5	30.2	42.3	46.0	3.7	Vert.
2	437.509	40.3	16.1	10.6	30.2	36.8	46.0	9.2	Vert.
3	459.307	41.0	16.6	10.7	30.2	38.1	46.0	7.9	Vert.
4	480.006	44.5	17.1	10.8	30.2	42.2	46.0	3.8	Vert.
5	490.239	39.2	17.2	10.9	30.2	37.1	46.0	8.9	Vert.
6	541.862	40.2	18.0	11.3	30.2	39.3	46.0	6.7	Vert.

Operating mode: Tx 2412MHz 11g 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	575.998	42.7	18.5	11.6	30.2	42.6	46.0	3.4	Hori.
2	600.080	41.2	18.5	11.9	30.2	41.4	46.0	4.6	Hori.
3	735.313	37.6	19.3	12.2	30.2	38.9	46.0	7.1	Hori.
4	790.986	37.4	19.7	12.5	30.1	39.5	46.0	6.5	Hori.
5	431.994	46.4	16.1	10.5	30.2	42.8	46.0	3.2	Vert.
6	576.006	43.0	18.5	11.6	30.2	42.9	46.0	3.1	Vert.

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Operating mode: Tx 2437MHz 11g 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	432.006	44.0	16.1	10.5	30.2	40.4	46.0	5.6	Hori.
2	480.014	41.0	17.1	10.8	30.2	38.7	46.0	7.3	Hori.
3	432.006	47.9	16.1	10.5	30.2	44.3	46.0	1.7	Vert.
4	479.995	44.4	17.1	10.8	30.2	42.1	46.0	3.9	Vert.
5	576.007	40.2	18.5	11.6	30.2	40.1	46.0	5.9	Vert.
6	587.060	38.3	18.6	11.7	30.2	38.4	46.0	7.6	Vert.

Operating mode: Tx 2437MHz 11g 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	518.579	36.5	17.1	11.1	30.2	34.5	46.0	11.5	Hori.
2	432.002	45.8	16.1	10.5	30.2	42.2	46.0	3.8	Vert.
3	480.014	41.8	17.1	10.8	30.2	39.5	46.0	6.5	Vert.
4	541.829	39.5	18.0	11.3	30.2	38.6	46.0	7.4	Vert.
5	576.002	39.1	18.5	11.6	30.2	39.0	46.0	7.0	Vert.
6	599.994	37.8	18.5	11.8	30.2	37.9	46.0	8.1	Vert.

Operating mode: Tx 2437MHz 11g 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	575.990	42.0	18.5	11.6	30.2	41.9	46.0	4.1	Hori.
2	602.146	41.1	18.5	11.9	30.2	41.3	46.0	4.7	Hori.
3	624.011	42.5	18.6	11.9	30.2	42.8	46.0	3.2	Hori.
4	736.089	37.7	19.3	12.2	30.2	39.0	46.0	7.0	Hori.
5	432.009	46.6	16.1	10.5	30.2	43.0	46.0	3.0	Vert.
6	576.004	42.9	18.5	11.6	30.2	42.8	46.0	3.2	Vert.

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Operating mode: Tx 2462MHz 11g 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	431.996	44.0	16.1	10.5	30.2	40.4	46.0	5.6	Hori.
2	480.000	39.5	17.1	10.8	30.2	37.2	46.0	8.8	Hori.
3	431.989	47.8	16.1	10.5	30.2	44.2	46.0	1.8	Vert.
4	576.003	42.0	18.5	11.6	30.2	41.9	46.0	4.1	Vert.
5	599.994	38.1	18.5	11.8	30.2	38.2	46.0	7.8	Vert.
6	624.002	39.9	18.6	11.9	30.2	40.2	46.0	5.8	Vert.

Operating mode: Tx 2462MHz 11g 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	518.576	36.2	17.1	11.1	30.2	34.2	46.0	11.8	Hori.
2	432.003	44.0	16.1	10.5	30.2	40.4	46.0	5.6	Vert.
3	456.890	40.3	16.5	10.7	30.2	37.3	46.0	8.7	Vert.
4	492.546	38.7	17.1	10.9	30.2	36.5	46.0	9.5	Vert.
5	544.278	38.5	18.3	11.3	30.2	37.9	46.0	8.1	Vert.
6	575.996	38.9	18.5	11.6	30.2	38.8	46.0	7.2	Vert.

Operating mode: Tx 2462MHz 11g 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	494.487	40.0	17.1	10.9	30.2	37.8	46.0	8.2	Hori.
2	576.006	42.3	18.5	11.6	30.2	42.2	46.0	3.8	Hori.
3	599.913	41.5	18.5	11.8	30.2	41.6	46.0	4.4	Hori.
4	733.859	37.6	19.3	12.2	30.2	38.9	46.0	7.1	Hori.
5	431.996	46.7	16.1	10.5	30.2	43.1	46.0	2.9	Vert.
6	576.004	44.0	18.5	11.6	30.2	43.9	46.0	2.1	Vert.

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Operating mode: Tx 2412MHz 11n_HT20 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	432.003	43.4	16.1	10.5	30.2	39.8	46.0	6.2	Hori.
2	480.005	40.2	17.1	10.8	30.2	37.9	46.0	8.1	Hori.
3	527.948	36.0	17.2	11.2	30.2	34.2	46.0	11.8	Hori.
4	432.008	47.7	16.1	10.5	30.2	44.1	46.0	1.9	Vert.
5	480.025	42.7	17.1	10.8	30.2	40.4	46.0	5.6	Vert.
6	576.007	41.6	18.5	11.6	30.2	41.5	46.0	4.5	Vert.

Operating mode: Tx 2412MHz 11n_HT20 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	542.656	35.3	18.1	11.3	30.2	34.5	46.0	11.5	Hori.
2	592.533	35.0	18.6	11.7	30.2	35.1	46.0	10.9	Hori.
3	432.012	45.6	16.1	10.5	30.2	42.0	46.0	4.0	Vert.
4	480.000	42.3	17.1	10.8	30.2	40.0	46.0	6.0	Vert.
5	542.068	40.1	18.0	11.3	30.2	39.2	46.0	6.8	Vert.
6	595.512	35.0	18.5	11.7	30.2	35.0	46.0	11.0	Vert.

Operating mode: Tx 2412MHz 11n_HT20 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	575.996	42.1	18.5	11.6	30.2	42.0	46.0	4.0	Hori.
2	599.989	38.5	18.5	11.8	30.2	38.6	46.0	7.4	Hori.
3	736.283	35.9	19.3	12.2	30.2	37.2	46.0	8.8	Hori.
4	542.206	40.2	18.0	11.3	30.2	39.3	46.0	6.7	Vert.
5	575.998	43.6	18.5	11.6	30.2	43.5	46.0	2.5	Vert.
6	734.828	36.2	19.3	12.2	30.2	37.5	46.0	8.5	Vert.

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Operating mode: Tx 2437MHz 11n_HT20 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	431.998	43.8	16.1	10.5	30.2	40.2	46.0	5.8	Hori.
2	575.991	41.6	18.5	11.6	30.2	41.5	46.0	4.5	Hori.
3	431.993	48.0	16.1	10.5	30.2	44.4	46.0	1.6	Vert.
4	542.594	37.6	18.1	11.3	30.2	36.8	46.0	9.2	Vert.
5	575.995	43.3	18.5	11.6	30.2	43.2	46.0	2.8	Vert.
6	587.025	38.6	18.6	11.7	30.2	38.7	46.0	7.3	Vert.

Operating mode: Tx 2437MHz 11n_HT20 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	576.007	41.2	18.5	11.6	30.2	41.1	46.0	4.9	Hori.
2	432.005	44.9	16.1	10.5	30.2	41.3	46.0	4.7	Vert.
3	480.013	41.8	17.1	10.8	30.2	39.5	46.0	6.5	Vert.
4	490.396	38.8	17.2	10.9	30.2	36.7	46.0	9.3	Vert.
5	541.926	39.4	18.0	11.3	30.2	38.5	46.0	7.5	Vert.
6	576.006	39.4	18.5	11.6	30.2	39.3	46.0	6.7	Vert.

Operating mode: Tx 2437MHz 11n_HT20 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	541.721	38.2	18.0	11.3	30.2	37.3	46.0	8.7	Hori.
2	576.003	43.2	18.5	11.6	30.2	43.1	46.0	2.9	Hori.
3	724.548	35.4	19.1	12.2	30.3	36.4	46.0	9.6	Hori.
4	537.938	40.8	17.5	11.3	30.2	39.4	46.0	6.6	Vert.
5	576.001	44.1	18.5	11.6	30.2	44.0	46.0	2.0	Vert.
6	730.464	35.9	19.2	12.2	30.2	37.1	46.0	8.9	Vert.

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Operating mode: Tx 2462MHz 11n_HT20 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	431.994	44.8	16.1	10.5	30.2	41.2	46.0	4.8	Hori.
2	576.003	39.7	18.5	11.6	30.2	39.6	46.0	6.4	Hori.
3	342.389	43.6	13.9	10.0	30.2	37.3	46.0	8.7	Vert.
4	432.009	47.7	16.1	10.5	30.2	44.1	46.0	1.9	Vert.
5	528.007	40.3	17.2	11.2	30.2	38.5	46.0	7.5	Vert.
6	576.017	41.8	18.5	11.6	30.2	41.7	46.0	4.3	Vert.

Operating mode: Tx 2462MHz 11n_HT20 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	480.013	43.1	17.1	10.8	30.2	40.8	46.0	5.2	Hori.
2	528.007	38.0	17.2	11.2	30.2	36.2	46.0	9.8	Hori.
3	432.001	42.0	16.1	10.5	30.2	38.4	46.0	7.6	Vert.
4	459.355	40.8	16.6	10.7	30.2	37.9	46.0	8.1	Vert.
5	479.992	41.6	17.1	10.8	30.2	39.3	46.0	6.7	Vert.
6	546.422	37.6	18.5	11.3	30.2	37.2	46.0	8.8	Vert.

Operating mode: Tx 2462MHz 11n_HT20 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	480.006	43.3	17.1	10.8	30.2	41.0	46.0	5.0	Hori.
2	539.878	39.6	17.7	11.3	30.2	38.4	46.0	7.6	Hori.
3	575.990	41.9	18.5	11.6	30.2	41.8	46.0	4.2	Hori.
4	732.986	35.2	19.3	12.2	30.2	36.5	46.0	9.5	Hori.
5	537.744	40.8	17.5	11.3	30.2	39.4	46.0	6.6	Vert.
6	576.000	44.0	18.5	11.6	30.2	43.9	46.0	2.1	Vert.

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Operating mode: Tx 2422MHz 11n_HT40 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	432.009	45.0	16.1	10.5	30.2	41.4	46.0	4.6	Hori.
2	479.992	40.7	17.1	10.8	30.2	38.4	46.0	7.6	Hori.
3	432.008	47.8	16.1	10.5	30.2	44.2	46.0	1.8	Vert.
4	480.002	43.8	17.1	10.8	30.2	41.5	46.0	4.5	Vert.
5	542.980	37.7	18.1	11.3	30.2	36.9	46.0	9.1	Vert.
6	601.963	37.5	18.5	11.9	30.2	37.7	46.0	8.3	Vert.

Operating mode: Tx 2422MHz 11n_HT40 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	624.001	42.4	18.6	11.9	30.2	42.7	46.0	3.3	Hori.
2	431.989	45.2	16.1	10.5	30.2	41.6	46.0	4.4	Vert.
3	452.551	36.7	16.4	10.7	30.2	33.6	46.0	12.4	Vert.
4	479.991	42.8	17.1	10.8	30.2	40.5	46.0	5.5	Vert.
5	539.891	37.4	17.7	11.3	30.2	36.2	46.0	9.8	Vert.
6	623.996	41.4	18.6	11.9	30.2	41.7	46.0	4.3	Vert.

Operating mode: Tx 2422MHz 11n_HT40 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	538.811	38.0	17.6	11.3	30.2	36.7	46.0	9.3	Hori.
2	575.994	41.9	18.5	11.6	30.2	41.8	46.0	4.2	Hori.
3	736.962	35.7	19.3	12.2	30.2	37.0	46.0	9.0	Hori.
4	539.005	40.3	17.6	11.3	30.2	39.0	46.0	7.0	Vert.
5	576.008	43.4	18.5	11.6	30.2	43.3	46.0	2.7	Vert.
6	731.337	35.9	19.3	12.2	30.2	37.2	46.0	8.8	Vert.

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Operating mode: Tx 2437MHz 11n_HT40 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	432.010	46.1	16.1	10.5	30.2	42.5	46.0	3.5	Hori.
2	480.005	39.5	17.1	10.8	30.2	37.2	46.0	8.8	Hori.
3	432.009	48.1	16.1	10.5	30.2	44.5	46.0	1.5	Vert.
4	576.003	41.7	18.5	11.6	30.2	41.6	46.0	4.4	Vert.
5	599.995	40.1	18.5	11.8	30.2	40.2	46.0	5.8	Vert.
6	623.996	41.4	18.6	11.9	30.2	41.7	46.0	4.3	Vert.

Operating mode: Tx 2437MHz 11n_HT40 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	321.551	44.0	13.9	9.8	30.2	37.5	46.0	8.5	Vert.
2	342.018	45.4	13.8	10.0	30.2	39.0	46.0	7.0	Vert.
3	432.004	44.9	16.1	10.5	30.2	41.3	46.0	4.7	Vert.
4	575.996	40.1	18.5	11.6	30.2	40.0	46.0	6.0	Vert.
5	592.105	37.6	18.6	11.7	30.2	37.7	46.0	8.3	Vert.
6	624.007	42.5	18.6	11.9	30.2	42.8	46.0	3.2	Vert.

Operating mode: Tx 2437MHz 11n_HT40 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	383.982	39.6	15.1	10.2	30.3	34.6	46.0	11.4	Hori.
2	479.995	43.8	17.1	10.8	30.2	41.5	46.0	4.5	Hori.
3	527.998	43.9	17.2	11.2	30.2	42.1	46.0	3.9	Hori.
4	604.183	36.8	18.4	11.9	30.2	36.9	46.0	9.1	Hori.
5	537.162	41.2	17.5	11.3	30.2	39.8	46.0	6.2	Vert.
6	575.994	43.3	18.5	11.6	30.2	43.2	46.0	2.8	Vert.

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Operating mode: Tx 2452MHz 11n_HT40 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	431.989	43.5	16.1	10.5	30.2	39.9	46.0	6.1	Hori.
2	768.006	40.7	19.6	12.4	30.2	42.5	46.0	3.5	Hori.
3	816.005	39.6	19.7	12.6	30.0	41.9	46.0	4.1	Hori.
4	431.999	47.8	16.1	10.5	30.2	44.2	46.0	1.8	Vert.
5	542.974	38.1	18.1	11.3	30.2	37.3	46.0	8.7	Vert.
6	601.963	37.5	18.5	11.9	30.2	37.7	46.0	8.3	Vert.

Operating mode: Tx 2452MHz 11n_HT40 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	595.138	33.5	18.5	11.7	30.2	33.5	46.0	12.5	Hori.
2	342.656	45.1	13.9	10.0	30.2	38.8	46.0	7.2	Vert.
3	431.991	43.5	16.1	10.5	30.2	39.9	46.0	6.1	Vert.
4	479.996	41.6	17.1	10.8	30.2	39.3	46.0	6.7	Vert.
5	528.013	44.1	17.2	11.2	30.2	42.3	46.0	3.7	Vert.
6	590.174	38.0	18.6	11.7	30.2	38.1	46.0	7.9	Vert.

Operating mode: Tx 2452MHz 11n_HT40 Z-plane

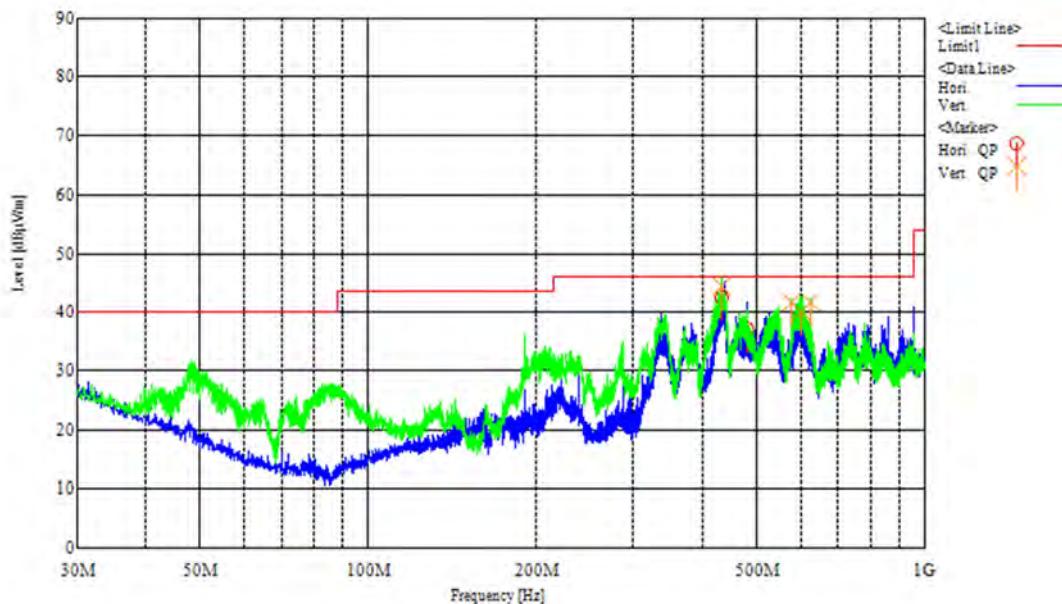
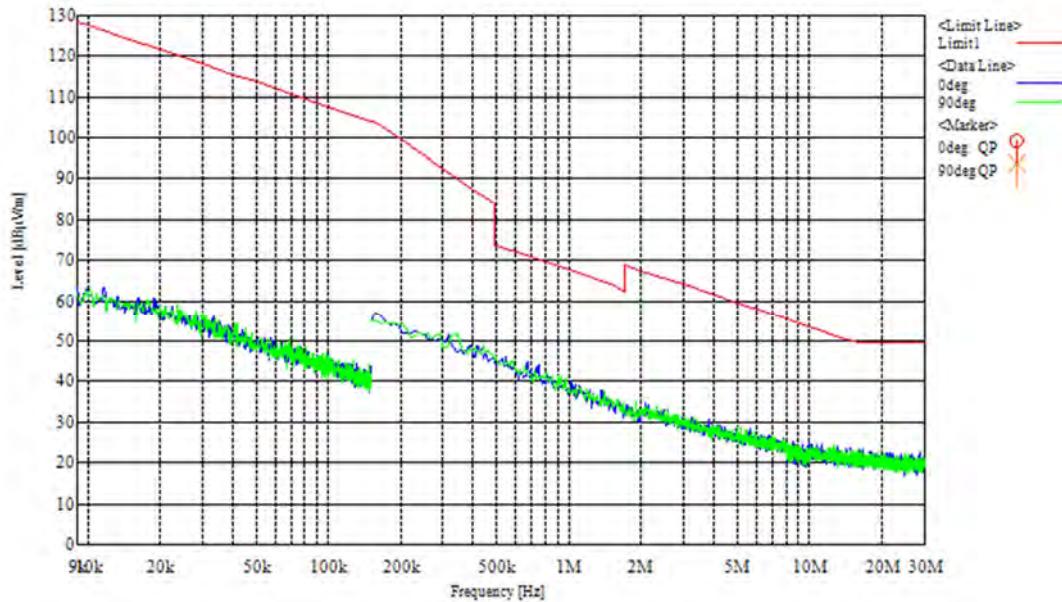
[Emission level]

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	536.968	38.2	17.5	11.3	30.2	36.8	46.0	9.2	Hori.
2	576.009	44.1	18.5	11.6	30.2	44.0	46.0	2.0	Hori.
3	624.006	38.6	18.6	11.9	30.2	38.9	46.0	7.1	Hori.
4	735.216	36.0	19.3	12.2	30.2	37.3	46.0	8.7	Hori.
5	540.460	41.3	17.8	11.3	30.2	40.2	46.0	5.8	Vert.
6	575.996	44.2	18.5	11.6	30.2	44.1	46.0	1.9	Vert.

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[Chart] Tx 2437MHz 11n_HT40 X-plane



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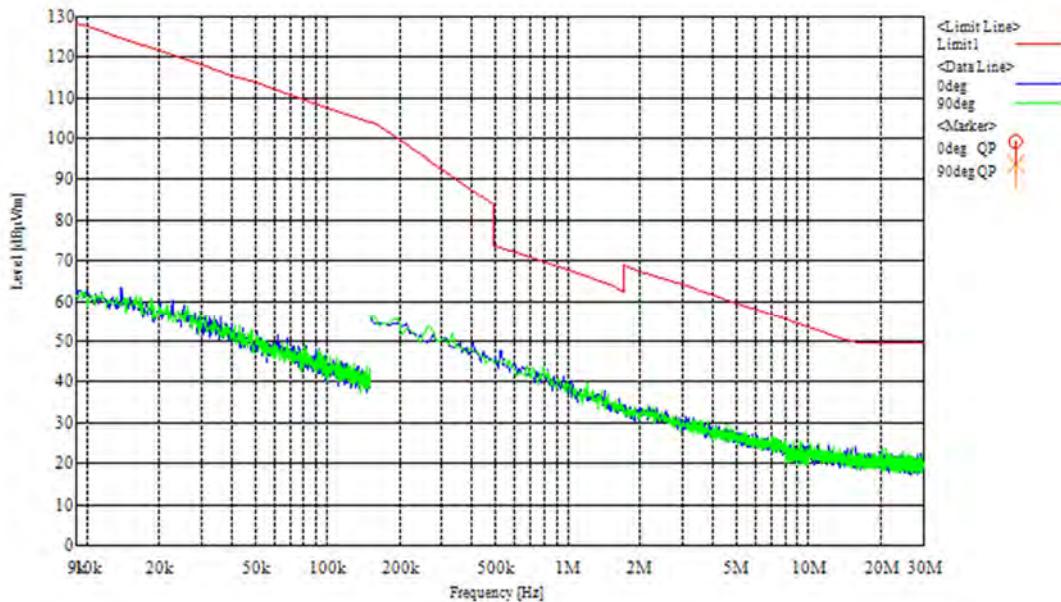
Test configuration: Configuration 2

*Operating mode: Tx 2437MHz 11n_HT40 X-plane [Worst case]
 [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	431.998	43.8	16.1	10.5	30.2	40.2	46.0	5.8	Hori.
2	575.991	41.6	18.5	11.6	30.2	41.5	46.0	4.5	Hori.
3	431.993	48.0	16.1	10.5	30.2	44.4	46.0	1.6	Vert.
4	542.594	37.6	18.1	11.3	30.2	36.8	46.0	9.2	Vert.
5	575.995	43.3	18.5	11.6	30.2	43.2	46.0	2.8	Vert.
6	587.025	38.6	18.6	11.7	30.2	38.7	46.0	7.3	Vert.

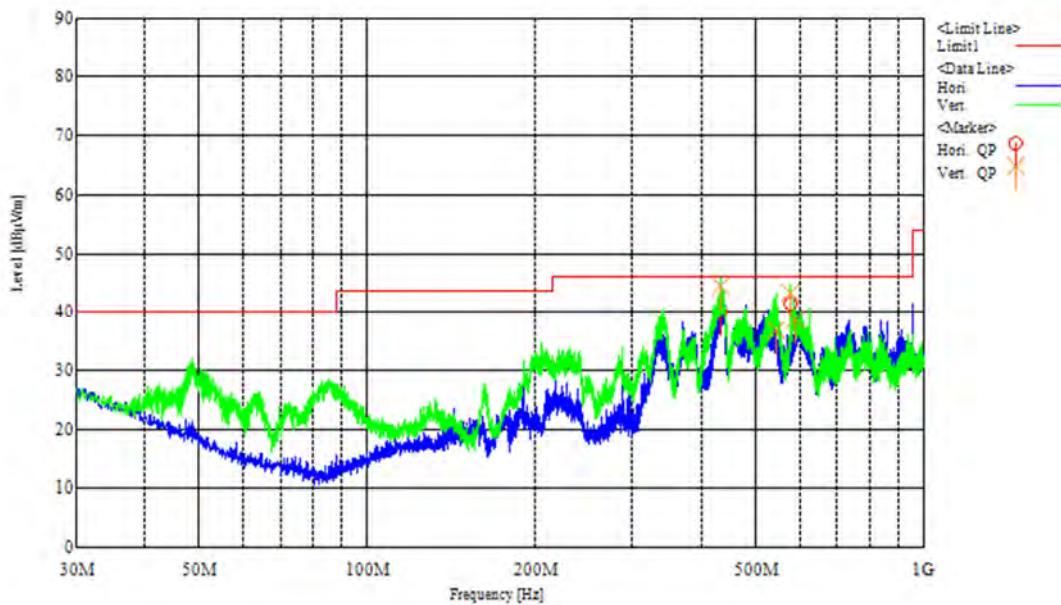
[Chart]

Tx 2437MHz 11n_HT40 X-plane



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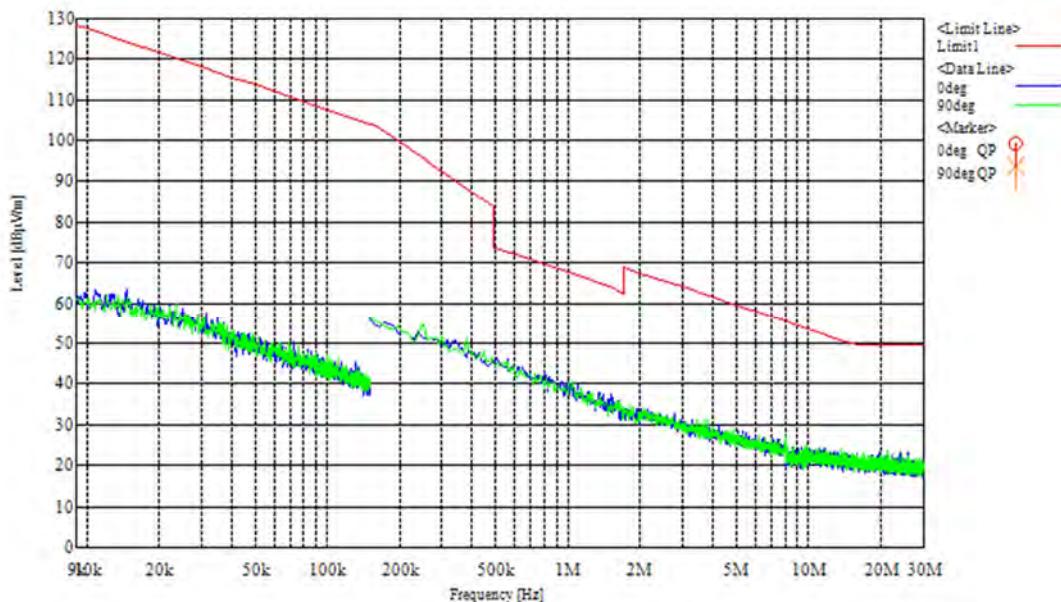
Test configuration: Configuration 3

*Operating mode: Tx 2437MHz 11n_HT40 X-plane [Worst case]
 [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	576.022	44.0	18.5	11.6	30.2	43.9	46.0	2.1	Hori.
2	587.037	40.0	18.6	11.7	30.2	40.1	46.0	5.9	Hori.
3	528.014	44.8	17.2	11.2	30.2	43.0	46.0	3.0	Vert.
4	576.007	44.5	18.5	11.6	30.2	44.4	46.0	1.6	Vert.
5	694.287	39.7	18.7	12.0	30.3	40.1	46.0	5.9	Vert.
6	780.414	37.6	19.8	12.4	30.1	39.7	46.0	6.3	Vert.

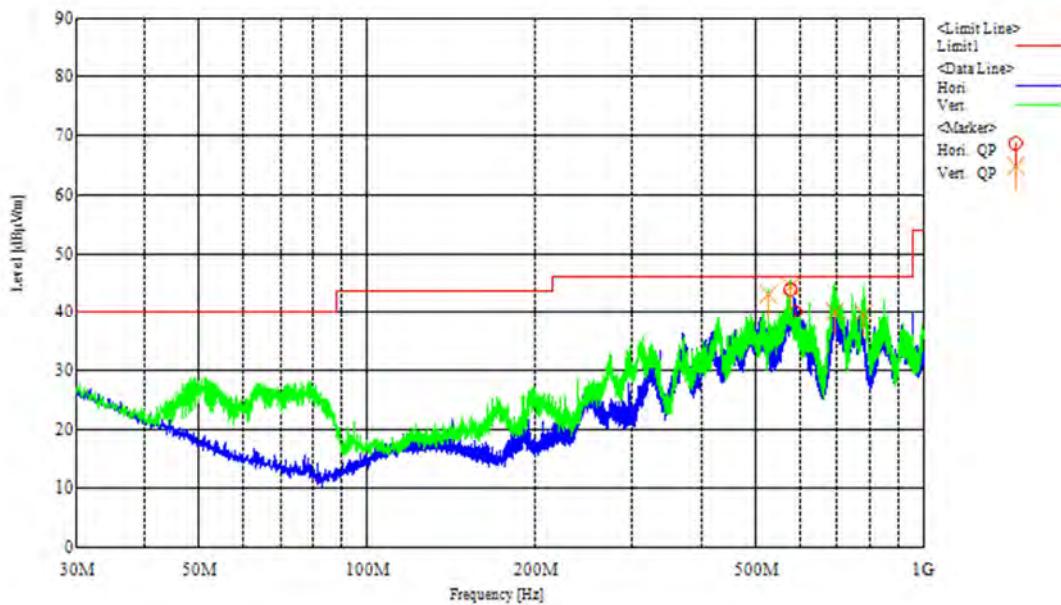
[Chart]

Tx 2437MHz 11n_HT40 X-plane



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[Day1]

Tested Date: 09 Sep. 2024 Temperature: 23 degC
Humidity: 56 % Atmos. Press: 1012 hPa

[Day2]

Tested Date: 10 Sep. 2024 Temperature: 23 degC
Humidity: 60 % Atmos. Press: 1016 hPa

[Day3]

Tested Date: 11 Sep. 2024 Temperature: 22 degC
Humidity: 55 % Atmos. Press: 1016 hPa

[Day4]

Tested Date: 12 Sep. 2024 Temperature: 20 degC
Humidity: 55 % Atmos. Press: 1012 hPa

[Day5]

Tested Date: 19 Sep. 2024 Temperature: 23 degC
Humidity: 63 % Atmos. Press: 1014 hPa

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Test Data (above 1000MHz)

Test configuration: Configuration 1

Operating mode: Tx 2412MHz 11b 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	1056.041	62.7	50.0	-10.8	51.9	39.4	73.9	53.9	22.0	14.5	Hori.
2	1174.029	57.8	45.2	-9.1	48.7	36.3	73.9	53.9	25.2	17.6	Hori.
3	4824.085	44.3	35.6	2.4	46.7	38.2	73.9	53.9	27.2	15.7	Hori.
4	1175.465	55.7	43.4	-9.0	46.7	34.6	73.9	53.9	27.2	19.3	Vert.
5	1625.375	53.8	41.3	-8.3	45.5	33.2	73.9	53.9	28.4	20.7	Vert.
6	4824.069	45.4	38.5	2.4	47.8	41.1	73.9	53.9	26.1	12.8	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2412MHz 11b 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	1056.041	58.5	45.9	-10.8	47.7	35.3	73.9	53.9	26.2	18.6	Hori.
2	1173.992	56.3	43.6	-9.1	47.2	34.7	73.9	53.9	26.7	19.2	Hori.
3	4824.079	43.3	33.9	2.4	45.7	36.5	73.9	53.9	28.2	17.4	Hori.
4	1056.489	58.5	45.7	-10.8	47.7	35.1	73.9	53.9	26.2	18.8	Vert.
5	1174.021	59.0	45.8	-9.1	49.9	36.9	73.9	53.9	24.0	17.0	Vert.
6	4824.085	45.8	38.3	2.4	48.2	40.9	73.9	53.9	25.7	13.0	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2412MHz 11b 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	1056.017	60.5	47.7	-10.8	49.7	37.1	73.9	53.9	24.2	16.8	Hori.
2	1175.465	59.1	46.3	-9.0	50.1	37.5	73.9	53.9	23.8	16.4	Hori.
3	4824.065	45.6	37.2	2.4	48.0	39.8	73.9	53.9	25.9	14.1	Hori.
4	1056.489	59.5	46.3	-10.8	48.7	35.7	73.9	53.9	25.2	18.2	Vert.
5	1170.466	56.8	44.6	-9.1	47.7	35.7	73.9	53.9	26.2	18.2	Vert.
6	4824.081	45.5	38.1	2.4	47.9	40.7	73.9	53.9	26.0	13.2	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

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Operating mode: Tx 2437MHz 11b 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	1056.013	62.6	50.0	-10.8	51.8	39.4	73.9	53.9	22.1	14.5	Hori.
2	1174.041	57.8	45.2	-9.1	48.7	36.3	73.9	53.9	25.2	17.6	Hori.
3	4874.106	44.6	37.2	2.6	47.2	40.0	73.9	53.9	26.7	13.9	Hori.
4	1175.965	55.8	43.3	-9.0	46.8	34.5	73.9	53.9	27.1	19.4	Vert.
5	1626.375	54.7	41.6	-8.3	46.4	33.5	73.9	53.9	27.5	20.4	Vert.
6	4874.082	44.9	36.3	2.6	47.5	39.1	73.9	53.9	26.4	14.8	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2437MHz 11b 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	1055.997	59.8	45.9	-10.8	49.0	35.3	73.9	53.9	24.9	18.6	Hori.
2	1174.000	55.9	43.6	-9.1	46.8	34.7	73.9	53.9	27.1	19.2	Hori.
3	4874.083	43.3	33.9	2.6	45.9	36.7	73.9	53.9	28.0	17.2	Hori.
4	1055.989	58.2	45.7	-10.8	47.4	35.1	73.9	53.9	26.5	18.8	Vert.
5	1173.992	58.1	45.8	-9.1	49.0	36.9	73.9	53.9	24.9	17.0	Vert.
6	4874.088	45.1	37.4	2.6	47.7	40.2	73.9	53.9	26.2	13.7	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2437MHz 11b 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	1056.033	60.2	47.0	-10.8	49.4	36.4	73.9	53.9	24.5	17.5	Hori.
2	1173.989	57.5	44.6	-9.1	48.4	35.7	73.9	53.9	25.5	18.2	Hori.
3	4874.076	44.5	35.4	2.6	47.1	38.2	73.9	53.9	26.8	15.7	Hori.
4	1055.489	57.8	45.3	-10.8	47.0	34.7	73.9	53.9	26.9	19.2	Vert.
5	1174.038	56.0	43.5	-9.1	46.9	34.6	73.9	53.9	27.0	19.3	Vert.
6	4874.077	44.4	36.4	2.6	47.0	39.2	73.9	53.9	26.9	14.7	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

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Operating mode: Tx 2462MHz 11b 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	1056.021	62.6	49.7	-10.8	51.8	39.1	73.9	53.9	22.1	14.8	Hori.
2	1174.052	58.2	45.2	-9.1	49.1	36.3	73.9	53.9	24.8	17.6	Hori.
3	4924.079	45.0	37.2	2.6	47.6	40.0	73.9	53.9	26.3	13.9	Hori.
4	1179.540	56.0	43.2	-9.0	47.0	34.4	73.9	53.9	26.9	19.5	Vert.
5	1626.375	54.1	41.8	-8.3	45.8	33.7	73.9	53.9	28.1	20.2	Vert.
6	4924.097	44.2	35.9	2.6	46.8	38.7	73.9	53.9	27.1	15.2	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2462MHz 11b 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	1056.045	59.1	45.8	-10.8	48.3	35.2	73.9	53.9	25.6	18.7	Hori.
2	1174.008	55.9	43.4	-9.1	46.8	34.5	73.9	53.9	27.1	19.4	Hori.
3	4924.091	44.5	33.4	2.6	47.1	36.2	73.9	53.9	26.8	17.7	Hori.
4	1056.049	58.4	45.7	-10.8	47.6	35.1	73.9	53.9	26.3	18.8	Vert.
5	1174.029	58.8	45.7	-9.1	49.7	36.8	73.9	53.9	24.2	17.1	Vert.
6	4924.069	45.9	37.3	2.6	48.5	40.1	73.9	53.9	25.4	13.8	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2462MHz 11b 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	1056.025	59.2	46.9	-10.8	48.4	36.3	73.9	53.9	25.5	17.6	Hori.
2	1174.025	58.2	44.7	-9.1	49.1	35.8	73.9	53.9	24.8	18.1	Hori.
3	4924.065	43.9	33.0	2.6	46.5	35.8	73.9	53.9	27.4	18.1	Hori.
4	1055.989	58.0	45.2	-10.8	47.2	34.6	73.9	53.9	26.7	19.3	Vert.
5	1626.375	56.1	43.2	-8.3	47.8	35.1	73.9	53.9	26.1	18.8	Vert.
6	4924.077	44.3	35.7	2.6	46.9	38.5	73.9	53.9	27.0	15.4	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

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Operating mode: Tx 2412MHz 11g 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	1056.017	62.8	49.8	-10.8	52.0	39.3	73.9	53.9	21.9	14.6	Hori.
2	1173.989	57.9	45.3	-9.1	48.8	36.5	73.9	53.9	25.1	17.4	Hori.
3	4824.071	45.7	33.6	2.4	48.1	36.3	73.9	53.9	25.8	17.6	Hori.
4	1175.465	57.2	43.6	-9.0	48.2	34.9	73.9	53.9	25.7	19.0	Vert.
5	1626.375	54.5	41.8	-8.3	46.2	33.8	73.9	53.9	27.7	20.1	Vert.
6	4824.081	46.2	34.6	2.4	48.6	37.3	73.9	53.9	25.3	16.6	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2412MHz 11g 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	1055.993	58.9	46.0	-10.8	48.1	35.5	73.9	53.9	25.8	18.4	Hori.
2	1174.017	56.5	43.7	-9.1	47.4	34.9	73.9	53.9	26.5	19.0	Hori.
3	4824.086	44.3	33.4	2.4	46.7	36.1	73.9	53.9	27.2	17.8	Hori.
4	1055.972	59.3	45.8	-10.8	48.5	35.3	73.9	53.9	25.4	18.6	Vert.
5	1174.021	58.0	45.8	-9.1	48.9	37.0	73.9	53.9	25.0	16.9	Vert.
6	4824.063	46.4	33.9	2.4	48.8	36.6	73.9	53.9	25.1	17.3	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2412MHz 11g 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	1055.993	59.6	47.2	-10.8	48.8	36.7	73.9	53.9	25.1	17.2	Hori.
2	1173.999	58.0	44.7	-9.1	48.9	35.9	73.9	53.9	25.0	18.0	Hori.
3	4824.088	46.8	33.3	2.4	49.2	36.0	73.9	53.9	24.7	17.9	Hori.
4	1056.989	59.0	45.7	-10.8	48.2	35.2	73.9	53.9	25.7	18.7	Vert.
5	1174.066	56.5	44.0	-9.1	47.4	35.2	73.9	53.9	26.5	18.7	Vert.
6	4824.073	46.8	33.4	2.4	49.2	36.1	73.9	53.9	24.7	17.8	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

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Operating mode: Tx 2437MHz 11g 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	1056.009	62.1	49.8	-10.8	51.3	39.3	73.9	53.9	22.6	14.6	Hori.
2	1174.033	57.8	45.2	-9.1	48.7	36.4	73.9	53.9	25.2	17.5	Hori.
3	1057.385	56.2	43.7	-10.8	45.4	33.2	73.9	53.9	28.5	20.7	Vert.
4	1173.985	56.1	43.5	-9.1	47.0	34.7	73.9	53.9	26.9	19.2	Vert.
5	1626.375	54.6	41.8	-8.3	46.3	33.8	73.9	53.9	27.6	20.1	Vert.
6	4874.068	44.6	32.8	2.6	47.2	35.7	73.9	53.9	26.7	18.2	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2437MHz 11g 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	1055.997	59.2	46.0	-10.8	48.4	35.5	73.9	53.9	25.5	18.4	Hori.
2	1173.985	56.8	43.6	-9.1	47.7	34.8	73.9	53.9	26.2	19.1	Hori.
3	4874.087	43.4	32.7	2.6	46.0	35.6	73.9	53.9	27.9	18.3	Hori.
4	1056.005	58.8	45.8	-10.8	48.0	35.3	73.9	53.9	25.9	18.6	Vert.
5	1174.009	58.1	45.8	-9.1	49.0	37.0	73.9	53.9	24.9	16.9	Vert.
6	4874.061	44.5	32.6	2.6	47.1	35.5	73.9	53.9	26.8	18.4	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2437MHz 11g 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	1056.029	60.4	47.0	-10.8	49.6	36.5	73.9	53.9	24.3	17.4	Hori.
2	1173.993	57.9	44.7	-9.1	48.8	35.9	73.9	53.9	25.1	18.0	Hori.
3	4874.071	44.4	31.9	2.6	47.0	34.8	73.9	53.9	26.9	19.1	Hori.
4	1055.489	57.9	45.5	-10.8	47.1	35.0	73.9	53.9	26.8	18.9	Vert.
5	1174.007	56.4	43.7	-9.1	47.3	34.9	73.9	53.9	26.6	19.0	Vert.
6	1625.875	55.9	43.3	-8.3	47.6	35.3	73.9	53.9	26.3	18.6	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

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Operating mode: Tx 2462MHz 11g 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	1055.965	63.3	49.9	-10.8	52.5	39.4	73.9	53.9	21.4	14.5	Hori.
2	1174.009	58.4	45.4	-9.1	49.3	36.6	73.9	53.9	24.6	17.3	Hori.
3	1057.824	56.4	43.8	-10.7	45.7	33.4	73.9	53.9	28.2	20.5	Vert.
4	1174.012	55.7	43.5	-9.1	46.6	34.7	73.9	53.9	27.3	19.2	Vert.
5	1625.375	55.0	41.4	-8.3	46.7	33.4	73.9	53.9	27.2	20.5	Vert.
6	4924.059	45.1	32.1	2.6	47.7	35.0	73.9	53.9	26.2	18.9	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2462MHz 11g 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	1055.993	58.7	45.9	-10.8	47.9	35.4	73.9	53.9	26.0	18.5	Hori.
2	1173.993	56.4	43.7	-9.1	47.3	34.9	73.9	53.9	26.6	19.0	Hori.
3	4924.075	45.4	33.5	2.6	48.0	36.4	73.9	53.9	25.9	17.5	Hori.
4	1056.036	58.2	45.8	-10.8	47.4	35.3	73.9	53.9	26.5	18.6	Vert.
5	1174.009	58.6	45.8	-9.1	49.5	37.0	73.9	53.9	24.4	16.9	Vert.
6	4924.085	44.6	31.9	2.6	47.2	34.8	73.9	53.9	26.7	19.1	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2462MHz 11g 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	1056.005	60.0	47.0	-10.8	49.2	36.4	73.9	53.9	24.7	17.5	Hori.
2	1174.009	58.9	44.7	-9.1	49.8	35.8	73.9	53.9	24.1	18.1	Hori.
3	4924.067	44.7	32.4	2.6	47.3	35.2	73.9	53.9	26.6	18.7	Hori.
4	1054.989	58.1	45.4	-10.8	47.3	34.8	73.9	53.9	26.6	19.1	Vert.
5	1174.003	56.5	43.6	-9.1	47.4	34.7	73.9	53.9	26.5	19.2	Vert.
6	1626.375	55.9	43.3	-8.3	47.6	35.2	73.9	53.9	26.3	18.7	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

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Operating mode: Tx 2412MHz 11n HT20 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	1056.005	60.9	48.6	-10.8	50.1	38.1	73.9	53.9	23.8	15.8	Hori.
2	1174.005	58.3	45.9	-9.1	49.2	37.1	73.9	53.9	24.7	16.8	Hori.
3	1410.418	55.4	42.8	-8.7	46.7	34.4	73.9	53.9	27.2	19.5	Hori.
4	4824.074	45.2	33.3	2.4	47.6	36.0	73.9	53.9	26.3	17.9	Hori.
5	1176.465	55.4	42.8	-9.0	46.4	34.1	73.9	53.9	27.5	19.8	Vert.
6	4824.084	45.5	33.9	2.4	47.9	36.6	73.9	53.9	26.0	17.3	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2412MHz 11n HT20 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	1056.021	59.0	45.9	-10.8	48.2	35.4	73.9	53.9	25.7	18.5	Hori.
2	1174.032	56.4	43.7	-9.1	47.3	34.9	73.9	53.9	26.6	19.0	Hori.
3	4824.076	44.3	33.6	2.4	46.7	36.3	73.9	53.9	27.2	17.6	Hori.
4	1055.489	57.8	45.5	-10.8	47.0	35.0	73.9	53.9	26.9	18.9	Vert.
5	1173.989	58.0	45.5	-9.1	48.9	36.7	73.9	53.9	25.0	17.2	Vert.
6	4824.088	46.0	33.3	2.4	48.4	36.0	73.9	53.9	25.5	17.9	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2412MHz 11n HT20 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	1055.969	60.2	47.4	-10.8	49.4	36.9	73.9	53.9	24.5	17.0	Hori.
2	1173.988	58.0	44.8	-9.1	48.9	36.0	73.9	53.9	25.0	17.9	Hori.
3	1057.489	58.9	46.0	-10.8	48.1	35.5	73.9	53.9	25.8	18.4	Vert.
4	1174.009	56.5	44.1	-9.1	47.4	35.3	73.9	53.9	26.5	18.6	Vert.
5	1626.375	56.0	43.4	-8.3	47.7	35.4	73.9	53.9	26.2	18.5	Vert.
6	4824.089	45.3	32.6	2.4	47.7	35.3	73.9	53.9	26.2	18.6	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

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Operating mode: Tx 2437MHz 11n HT20 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	1056.013	61.1	48.5	-10.8	50.3	38.0	73.9	53.9	23.6	15.9	Hori.
2	1174.000	58.3	45.8	-9.1	49.2	37.0	73.9	53.9	24.7	16.9	Hori.
3	1410.418	54.9	42.4	-8.7	46.2	34.0	73.9	53.9	27.7	19.9	Hori.
4	1055.989	57.0	43.8	-10.8	46.2	33.3	73.9	53.9	27.7	20.6	Vert.
5	1174.965	55.9	42.7	-9.1	46.8	33.9	73.9	53.9	27.1	20.0	Vert.
6	4874.090	43.9	32.5	2.6	46.5	35.4	73.9	53.9	27.4	18.5	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2437MHz 11n HT20 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	1056.025	58.8	46.0	-10.8	48.0	35.5	73.9	53.9	25.9	18.4	Hori.
2	1173.989	57.4	43.7	-9.1	48.3	34.9	73.9	53.9	25.6	19.0	Hori.
3	1056.489	58.6	45.7	-10.8	47.8	35.2	73.9	53.9	26.1	18.7	Vert.
4	1174.029	57.9	45.7	-9.1	48.8	36.9	73.9	53.9	25.1	17.0	Vert.
5	1624.875	55.8	42.2	-8.3	47.5	34.2	73.9	53.9	26.4	19.7	Vert.
6	4874.072	44.7	32.1	2.6	47.3	35.0	73.9	53.9	26.6	18.9	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2437MHz 11n HT20 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	1056.017	60.3	47.3	-10.8	49.5	36.8	73.9	53.9	24.4	17.1	Hori.
2	1174.021	58.5	44.8	-9.1	49.4	36.0	73.9	53.9	24.5	17.9	Hori.
3	4874.082	43.6	31.6	2.6	46.2	34.5	73.9	53.9	27.7	19.4	Hori.
4	1055.989	59.1	46.0	-10.8	48.3	35.5	73.9	53.9	25.6	18.4	Vert.
5	1173.977	56.7	44.0	-9.1	47.6	35.2	73.9	53.9	26.3	18.7	Vert.
6	1626.067	56.3	43.3	-8.3	48.0	35.3	73.9	53.9	25.9	18.6	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

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Operating mode: Tx 2462MHz 11n HT20 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	1056.029	61.2	48.6	-10.8	50.4	38.1	73.9	53.9	23.5	15.8	Hori.
2	1174.005	58.0	45.7	-9.1	48.9	36.9	73.9	53.9	25.0	17.0	Hori.
3	1410.418	54.8	42.3	-8.7	46.1	33.9	73.9	53.9	27.8	20.0	Hori.
4	1056.997	56.5	43.9	-10.8	45.7	33.4	73.9	53.9	28.2	20.5	Vert.
5	1175.080	55.1	42.5	-9.1	46.0	33.7	73.9	53.9	27.9	20.2	Vert.
6	4924.069	44.2	31.8	2.6	46.8	34.7	73.9	53.9	27.1	19.2	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2462MHz 11n HT20 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	1055.995	58.7	46.0	-10.8	47.9	35.5	73.9	53.9	26.0	18.4	Hori.
2	1174.001	56.6	43.6	-9.1	47.5	34.8	73.9	53.9	26.4	19.1	Hori.
3	4924.063	44.4	32.4	2.6	47.0	35.3	73.9	53.9	26.9	18.6	Hori.
4	1056.489	58.4	45.9	-10.8	47.6	35.4	73.9	53.9	26.3	18.5	Vert.
5	1174.005	58.2	45.7	-9.1	49.1	36.9	73.9	53.9	24.8	17.0	Vert.
6	1625.875	55.7	42.7	-8.3	47.4	34.7	73.9	53.9	26.5	19.2	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2462MHz 11n HT20 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	1056.006	60.1	47.2	-10.8	49.3	36.7	73.9	53.9	24.6	17.2	Hori.
2	1174.025	58.1	44.7	-9.1	49.0	35.9	73.9	53.9	24.9	18.0	Hori.
3	4924.083	44.0	31.6	2.6	46.6	34.5	73.9	53.9	27.3	19.4	Hori.
4	1054.989	58.8	46.0	-10.8	48.0	35.5	73.9	53.9	25.9	18.4	Vert.
5	1174.001	56.2	44.0	-9.1	47.1	35.2	73.9	53.9	26.8	18.7	Vert.
6	1625.375	55.2	42.9	-8.3	46.9	34.9	73.9	53.9	27.0	19.0	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

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Operating mode: Tx 2422MHz 11n HT40 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	1056.000	62.2	48.7	-10.8	51.4	38.3	73.9	53.9	22.5	15.6	Hori.
2	1173.985	57.4	44.7	-9.1	48.3	36.0	73.9	53.9	25.6	17.9	Hori.
3	1408.418	54.4	42.0	-8.7	45.7	33.7	73.9	53.9	28.2	20.2	Hori.
4	4844.081	43.2	32.2	2.6	45.8	35.2	73.9	53.9	28.1	18.7	Hori.
5	1174.037	54.9	42.7	-9.1	45.8	34.0	73.9	53.9	28.1	19.9	Vert.
6	4844.074	44.0	32.6	2.6	46.6	35.6	73.9	53.9	27.3	18.3	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2422MHz 11n HT40 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	1055.993	58.6	45.8	-10.8	47.8	35.4	73.9	53.9	26.1	18.5	Hori.
2	1174.001	56.5	43.5	-9.1	47.4	34.8	73.9	53.9	26.5	19.1	Hori.
3	4844.082	43.1	32.1	2.6	45.7	35.1	73.9	53.9	28.2	18.8	Hori.
4	1055.989	58.2	45.6	-10.8	47.4	35.2	73.9	53.9	26.5	18.7	Vert.
5	1174.040	59.1	45.5	-9.1	50.0	36.8	73.9	53.9	23.9	17.1	Vert.
6	4844.092	43.5	32.5	2.6	46.1	35.5	73.9	53.9	27.8	18.4	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2422MHz 11n HT40 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	1055.989	60.5	47.6	-10.8	49.7	37.2	73.9	53.9	24.2	16.7	Hori.
2	1173.973	57.9	45.0	-9.1	48.8	36.3	73.9	53.9	25.1	17.6	Hori.
3	4844.076	43.6	32.1	2.6	46.2	35.1	73.9	53.9	27.7	18.8	Hori.
4	1054.989	59.1	46.3	-10.8	48.3	35.9	73.9	53.9	25.6	18.0	Vert.
5	1174.002	56.8	44.3	-9.1	47.7	35.6	73.9	53.9	26.2	18.3	Vert.
6	1625.375	56.0	43.2	-8.3	47.7	35.3	73.9	53.9	26.2	18.6	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

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Operating mode: Tx 2437MHz 11n HT40 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	1055.984	61.4	48.8	-10.8	50.6	38.4	73.9	53.9	23.3	15.5	Hori.
2	1174.041	57.5	44.7	-9.1	48.4	36.0	73.9	53.9	25.5	17.9	Hori.
3	1408.418	53.9	41.9	-8.7	45.2	33.6	73.9	53.9	28.7	20.3	Hori.
4	1057.988	56.8	43.6	-10.7	46.1	33.3	73.9	53.9	27.8	20.6	Vert.
5	1173.992	55.4	42.7	-9.1	46.3	34.0	73.9	53.9	27.6	19.9	Vert.
6	4874.087	43.5	32.0	2.6	46.1	35.0	73.9	53.9	27.8	18.9	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2437MHz 11n HT40 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	1055.999	58.6	45.7	-10.8	47.8	35.3	73.9	53.9	26.1	18.6	Hori.
2	1173.984	56.0	43.6	-9.1	46.9	34.9	73.9	53.9	27.0	19.0	Hori.
3	1408.418	53.9	41.4	-8.7	45.2	33.1	73.9	53.9	28.7	20.8	Hori.
4	1057.446	59.1	45.7	-10.8	48.3	35.3	73.9	53.9	25.6	18.6	Vert.
5	1174.000	58.2	45.6	-9.1	49.1	36.9	73.9	53.9	24.8	17.0	Vert.
6	1626.375	56.1	42.4	-8.3	47.8	34.5	73.9	53.9	26.1	19.4	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2437MHz 11n HT40 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	1056.033	60.7	47.5	-10.8	49.9	37.1	73.9	53.9	24.0	16.8	Hori.
2	1173.989	57.9	45.0	-9.1	48.8	36.3	73.9	53.9	25.1	17.6	Hori.
3	1506.399	55.2	42.7	-8.4	46.8	34.7	73.9	53.9	27.1	19.2	Hori.
4	1055.989	59.3	46.3	-10.8	48.5	35.9	73.9	53.9	25.4	18.0	Vert.
5	1173.977	57.1	44.2	-9.1	48.0	35.5	73.9	53.9	25.9	18.4	Vert.
6	1626.375	56.1	43.4	-8.3	47.8	35.5	73.9	53.9	26.1	18.4	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

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Operating mode: Tx 2452MHz 11n HT40 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	1056.040	61.7	48.7	-10.8	50.9	38.3	73.9	53.9	23.0	15.6	Hori.
2	1174.049	57.4	44.8	-9.1	48.3	36.1	73.9	53.9	25.6	17.8	Hori.
3	1409.918	54.6	41.8	-8.7	45.9	33.5	73.9	53.9	28.0	20.4	Hori.
4	1055.733	56.8	43.8	-10.8	46.0	33.4	73.9	53.9	27.9	20.5	Vert.
5	1174.017	55.3	42.6	-9.1	46.2	33.9	73.9	53.9	27.7	20.0	Vert.
6	1626.375	53.1	40.4	-8.3	44.8	32.5	73.9	53.9	29.1	21.4	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2452MHz 11n HT40 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	1056.013	58.5	45.7	-10.8	47.7	35.3	73.9	53.9	26.2	18.6	Hori.
2	1173.997	56.4	43.6	-9.1	47.3	34.9	73.9	53.9	26.6	19.0	Hori.
3	1412.106	54.4	41.5	-8.7	45.7	33.2	73.9	53.9	28.2	20.7	Hori.
4	1058.488	58.3	45.6	-10.7	47.6	35.3	73.9	53.9	26.3	18.6	Vert.
5	1173.981	58.4	45.4	-9.1	49.3	36.7	73.9	53.9	24.6	17.2	Vert.
6	1625.875	54.7	42.3	-8.3	46.4	34.4	73.9	53.9	27.5	19.5	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2452MHz 11n HT40 Z-plane

[Emission level]

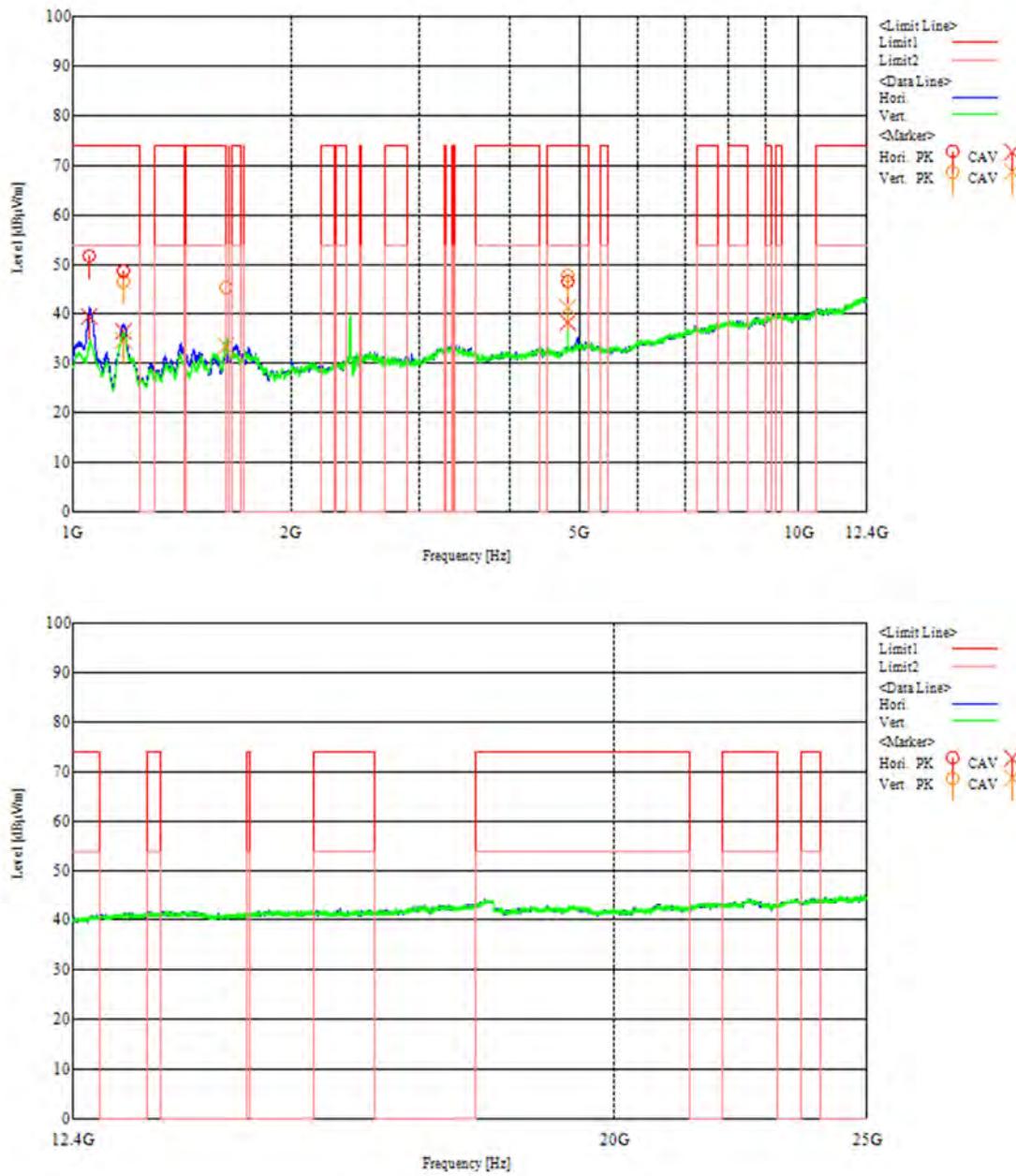
No.	Frequency [MHz]	Reading PK [dB μ V]	Reading Ave [dB μ V]	C.Factor [dB]	Result PK [dB μ V/m]	Result Ave [dB μ V/m]	Limit PK [dB μ V/m]	Limit Ave [dB μ V/m]	Margin PK [dB]	Margin Ave [dB]	Ant.
1	1056.013	60.9	47.5	-10.8	50.1	37.1	73.9	53.9	23.8	16.8	Hori.
2	1174.081	57.9	44.9	-9.1	48.8	36.2	73.9	53.9	25.1	17.7	Hori.
3	1505.899	55.8	42.6	-8.4	47.4	34.6	73.9	53.9	26.5	19.3	Hori.
4	1055.489	59.2	46.2	-10.8	48.4	35.8	73.9	53.9	25.5	18.1	Vert.
5	1174.049	56.8	44.2	-9.1	47.7	35.5	73.9	53.9	26.2	18.4	Vert.
6	1626.375	56.0	43.4	-8.3	47.7	35.5	73.9	53.9	26.2	18.4	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

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[Chart] Tx 2412MHz 11b X-plane



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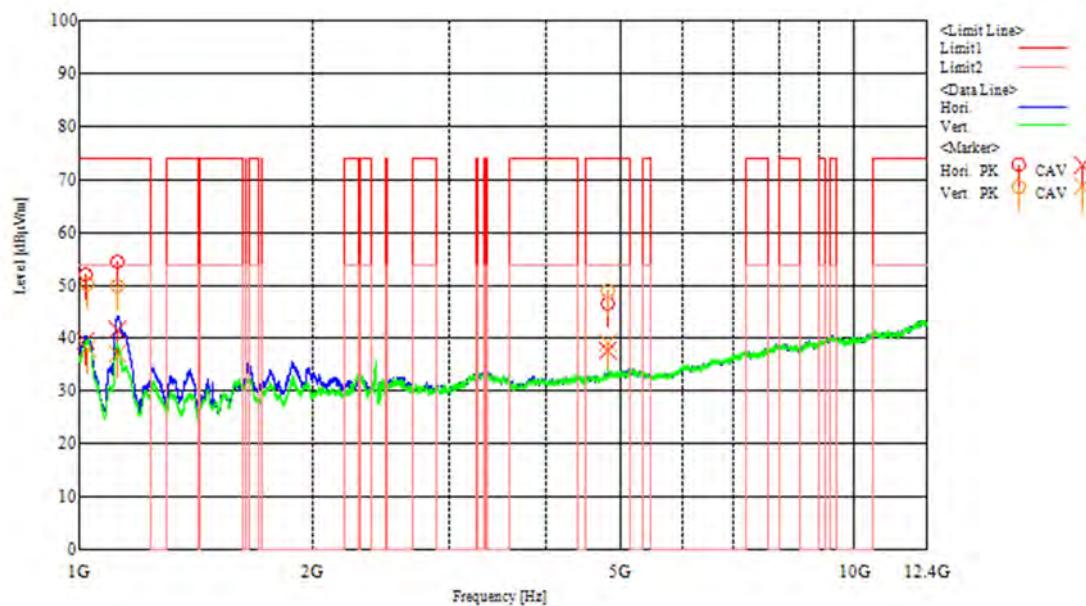
Test configuration: Configuration 2
Operating mode: Tx 2412MHz 11b X-plane [Worst case]
[Emission level]

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	1021.996	63.1	50.0	-10.9	52.2	39.3	73.9	53.9	21.7	14.6	Hori.
2	1120.476	64.0	50.7	-9.5	54.5	41.4	73.9	53.9	19.4	12.5	Hori.
3	4824.051	44.2	34.9	2.4	46.6	37.5	73.9	53.9	27.3	16.4	Hori.
4	1026.495	61.3	48.5	-10.9	50.4	37.8	73.9	53.9	23.5	16.1	Vert.
5	1121.976	59.4	46.2	-9.5	49.9	36.9	73.9	53.9	24.0	17.0	Vert.
6	4824.068	46.6	36.6	2.4	49.0	39.2	73.9	53.9	24.9	14.7	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

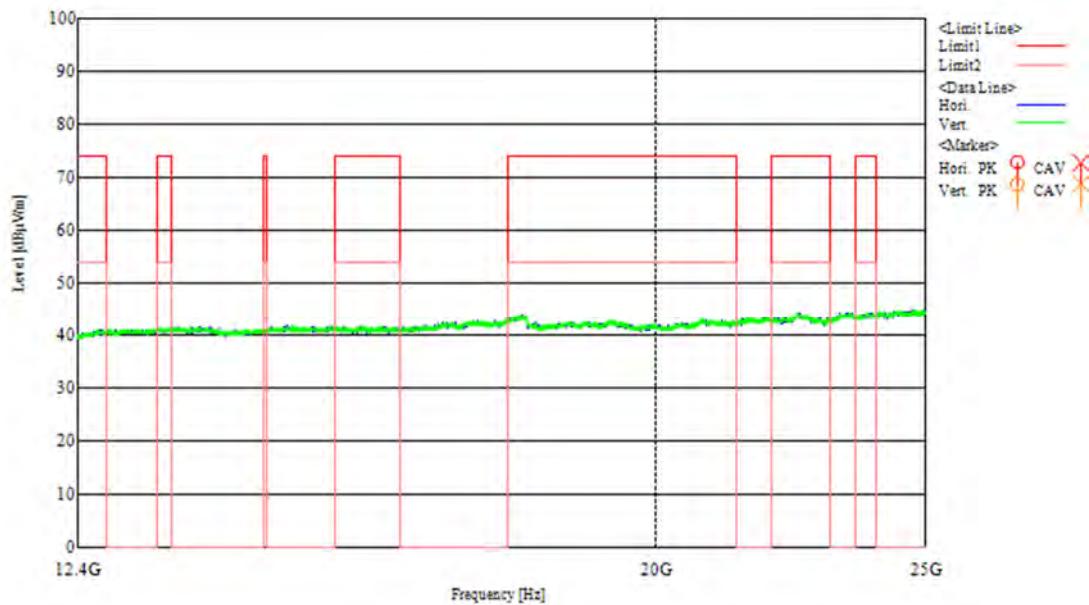
[Chart]

Tx 2412MHz 11b X-plane



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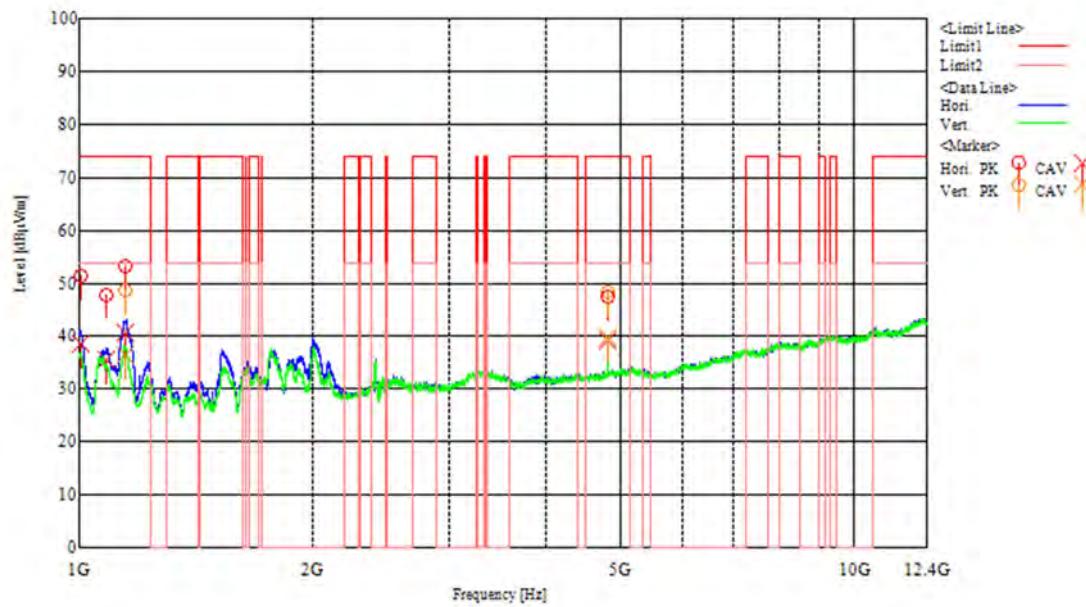
Test configuration: Configuration 3
Operating mode: Tx 2412MHz 11b X-plane [Worst case]
[Emission level]

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	1008.024	62.5	49.5	-11.1	51.4	38.6	73.9	53.9	22.5	15.3	Hori.
2	1085.983	58.1	45.4	-10.2	47.9	35.4	73.9	53.9	26.0	18.5	Hori.
3	1149.470	62.6	49.6	-9.2	53.4	40.6	73.9	53.9	20.5	13.3	Hori.
4	4824.066	45.0	36.5	2.4	47.4	39.1	73.9	53.9	26.5	14.8	Hori.
5	1147.470	58.0	45.3	-9.2	48.8	36.3	73.9	53.9	25.1	17.6	Vert.
6	4824.060	46.2	37.1	2.4	48.6	39.7	73.9	53.9	25.3	14.2	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

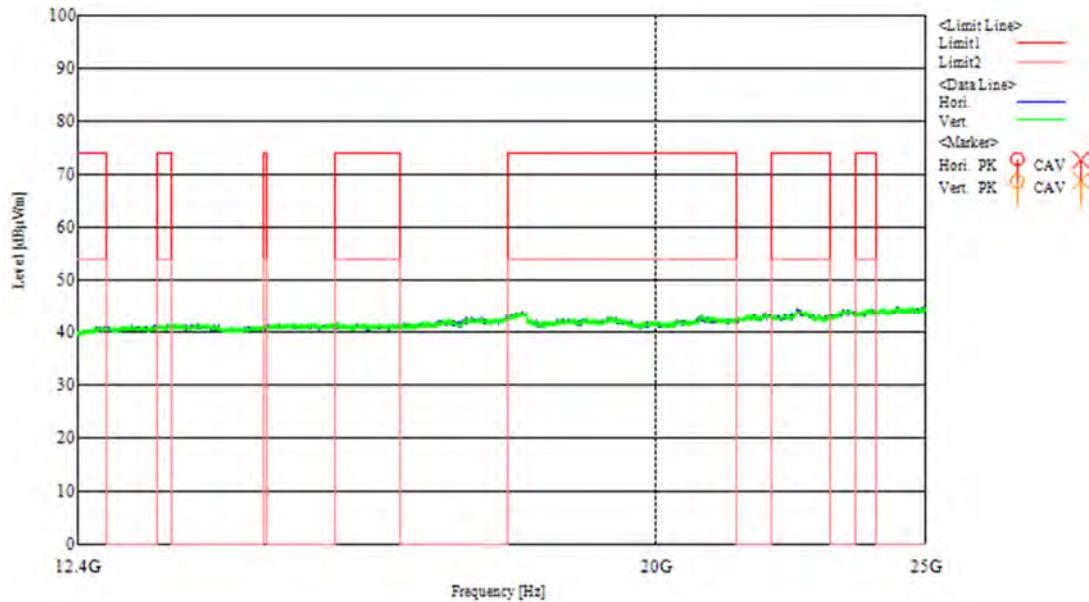
[Chart]

Tx 2412MHz 11b X-plane



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[Day1]

Tested Date: 14 Sep. 2024 Temperature: 22 degC
Humidity: 50 % Atmos. Press: 1008 hPa

[Day2]

Tested Date: 17 Sep. 2024 Temperature: 22 degC
Humidity: 65 % Atmos. Press: 1015 hPa

[Day3]

Tested Date: 18 Sep. 2024 Temperature: 21 degC
Humidity: 53 % Atmos. Press: 1012 hPa

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Test Data (Restricted band edge)

Test configuration: Configuration 1

Operating mode: Tx 2412MHz 11b 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	45.1	31.5	4.8	49.9	36.5	73.9	53.9	24.0	17.4	Hori.
2	2390.000	45.2	31.5	4.8	50.0	36.5	73.9	53.9	23.9	17.4	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2412MHz 11b 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	45.3	31.6	4.8	50.1	36.6	73.9	53.9	23.8	17.3	Hori.
2	2390.000	45.7	31.6	4.8	50.5	36.6	73.9	53.9	23.4	17.3	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2412MHz 11b 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	45.6	31.5	4.8	50.4	36.5	73.9	53.9	23.5	17.4	Hori.
2	2390.000	45.4	31.5	4.8	50.2	36.5	73.9	53.9	23.7	17.4	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

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Operating mode: Tx 2462MHz 11b 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	45.9	31.8	5.4	51.3	37.4	73.9	53.9	22.6	16.5	Hori.
2	2483.500	45.2	31.8	5.4	50.6	37.4	73.9	53.9	23.3	16.5	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2462MHz 11b 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	45.5	31.7	5.4	50.9	37.3	73.9	53.9	23.0	16.6	Hori.
2	2483.500	45.5	31.7	5.4	50.9	37.3	73.9	53.9	23.0	16.6	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2462MHz 11b 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	45.7	31.7	5.4	51.1	37.3	73.9	53.9	22.8	16.6	Hori.
2	2483.500	45.3	31.6	5.4	50.7	37.2	73.9	53.9	23.2	16.7	Vert.

Note 1: 0.23dB was added to the average result as the duty cycle compensation (97.4%).

Operating mode: Tx 2412MHz 11g 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	50.8	34.6	4.8	55.6	39.7	73.9	53.9	18.3	14.2	Hori.
2	2390.000	51.1	34.8	4.8	55.9	39.9	73.9	53.9	18.0	14.0	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2412MHz 11g 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	52.9	36.0	4.8	57.7	41.1	73.9	53.9	16.2	12.8	Hori.
2	2390.000	53.2	36.2	4.8	58.0	41.3	73.9	53.9	15.9	12.6	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2412MHz 11g 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	50.3	34.3	4.8	55.1	39.4	73.9	53.9	18.8	14.5	Hori.
2	2390.000	49.7	33.7	4.8	54.5	38.8	73.9	53.9	19.4	15.1	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

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Operating mode: Tx 2462MHz 11g 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	35.6	5.4	59.9	41.3	73.9	53.9	14.0	12.6	Hori.
2	2483.500	52.6	34.5	5.4	58.0	40.2	73.9	53.9	15.9	13.7	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2462MHz 11g 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	52.4	34.9	5.4	57.8	40.6	73.9	53.9	16.1	13.3	Hori.
2	2483.500	52.3	34.8	5.4	57.7	40.5	73.9	53.9	16.2	13.4	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

Operating mode: Tx 2462MHz 11g 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	34.3	5.4	56.9	40.0	73.9	53.9	17.0	13.9	Hori.
2	2483.500	50.7	33.6	5.4	56.1	39.3	73.9	53.9	17.8	14.6	Vert.

Note 1: 0.29dB was added to the average result as the duty cycle compensation (96.8%).

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Operating mode: Tx 2412MHz 11n_HT20 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	54.4	36.1	4.8	59.2	41.2	73.9	53.9	14.7	12.7	Hori.
2	2390.000	54.7	36.0	4.8	59.5	41.1	73.9	53.9	14.4	12.8	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2412MHz 11n_HT20 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	56.4	37.3	4.8	61.2	42.4	73.9	53.9	12.7	11.5	Hori.
2	2390.000	56.2	37.6	4.8	61.0	42.7	73.9	53.9	12.9	11.2	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2412MHz 11n_HT20 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	54.6	35.7	4.8	59.4	40.8	73.9	53.9	14.5	13.1	Hori.
2	2390.000	52.9	34.6	4.8	57.7	39.7	73.9	53.9	16.2	14.2	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2462MHz 11n_HT20 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	57.0	35.3	5.4	62.4	41.0	73.9	53.9	11.5	12.9	Hori.
2	2483.500	56.4	34.7	5.4	61.8	40.4	73.9	53.9	12.1	13.5	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2462MHz 11n_HT20 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	57.5	35.6	5.4	62.9	41.3	73.9	53.9	11.0	12.6	Hori.
2	2483.500	56.8	35.1	5.4	62.2	40.8	73.9	53.9	11.7	13.1	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2462MHz 11n_HT20 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	55.8	34.7	5.4	61.2	40.4	73.9	53.9	12.7	13.5	Hori.
2	2483.500	54.4	33.8	5.4	59.8	39.5	73.9	53.9	14.1	14.4	Vert.

Note 1: 0.25dB was added to the average result as the duty cycle compensation (97.1%).

Operating mode: Tx 2422MHz 11n_HT40 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	54.2	40.1	4.8	59.0	45.3	73.9	53.9	14.9	8.6	Hori.
2	2390.000	55.2	40.1	4.8	60.0	45.3	73.9	53.9	13.9	8.6	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2422MHz 11n_HT40 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	56.6	41.9	4.8	61.4	47.1	73.9	53.9	12.5	6.8	Hori.
2	2390.000	55.4	41.5	4.8	60.2	46.7	73.9	53.9	13.7	7.2	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2422MHz 11n_HT40 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	53.1	37.8	4.8	57.9	43.0	73.9	53.9	16.0	10.9	Hori.
2	2390.000	51.7	36.6	4.8	56.5	41.8	73.9	53.9	17.4	12.1	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

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Operating mode: Tx 2452MHz 11n_HT40 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	55.7	38.7	5.4	61.1	44.5	73.9	53.9	12.8	9.4	Hori.
2	2483.500	54.1	38.0	5.4	59.5	43.8	73.9	53.9	14.4	10.1	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2452MHz 11n_HT40 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	54.9	35.9	5.4	60.3	41.7	73.9	53.9	13.6	12.2	Hori.
2	2483.500	54.0	35.6	5.4	59.4	41.4	73.9	53.9	14.5	12.5	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2452MHz 11n_HT40 Z-plane

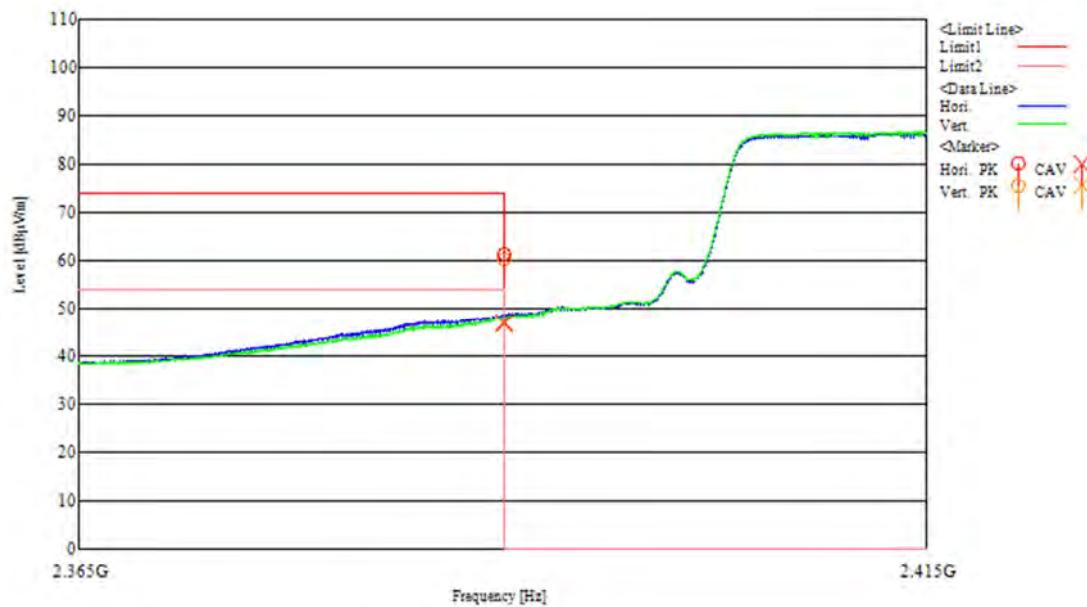
[Emission level]

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	55.9	38.6	5.4	61.3	44.4	73.9	53.9	12.6	9.5	Hori.
2	2483.500	51.6	36.8	5.4	57.0	42.6	73.9	53.9	16.9	11.3	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

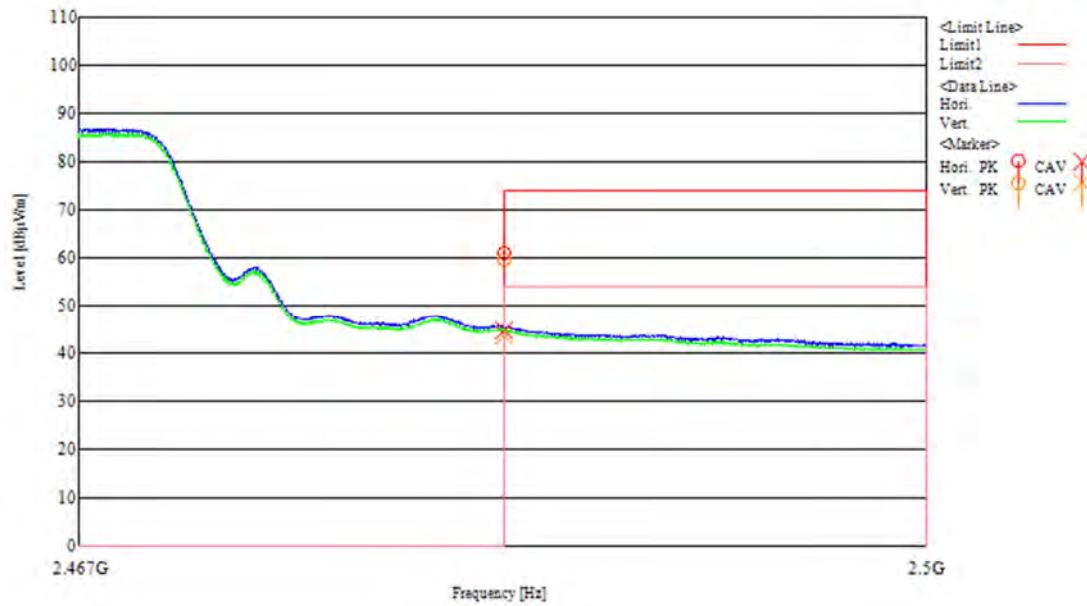
[Chart]

Tx 2422MHz 11n_HT40 Y-plane



[Chart]

Tx 2452MHz 11n_HT40 X-plane



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Test configuration: Configuration 2

Operating mode: Tx 2422MHz 11n-HT40 Y-plane [Worst case]

[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	55.3	41.0	4.8	60.1	46.2	73.9	53.9	13.8	7.7	Hori.
2	2390.000	54.8	40.5	4.8	59.6	45.7	73.9	53.9	14.3	8.2	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2452MHz 11n-HT40 X-plane [Worst case]

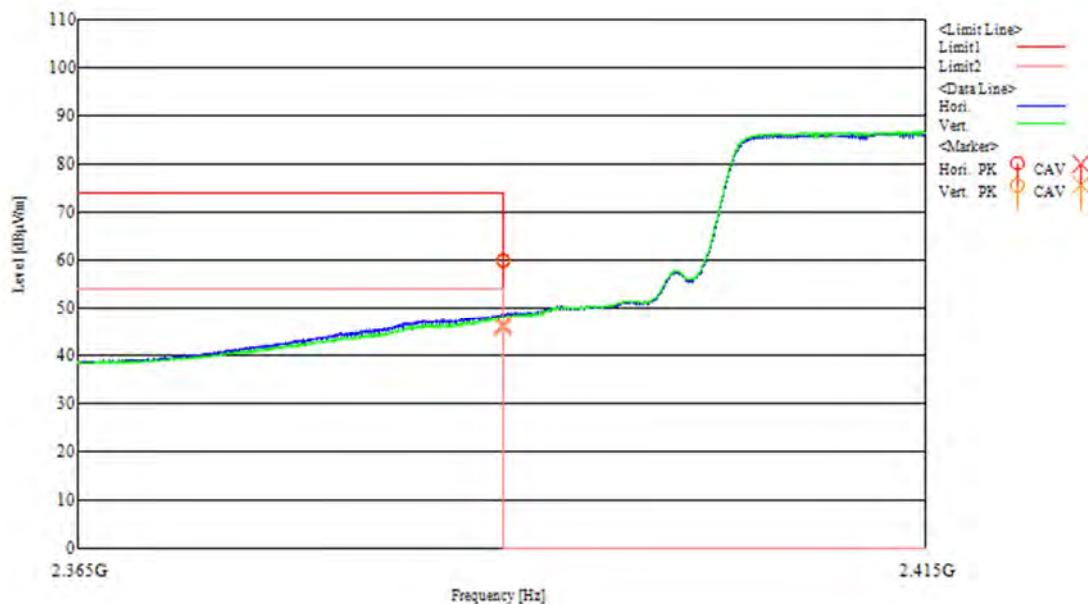
[Emission level]

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	50.7	38.1	5.4	56.1	43.9	73.9	53.9	17.8	10.0	Hori.
2	2483.500	50.9	37.5	5.4	56.3	43.3	73.9	53.9	17.6	10.6	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

[Chart]

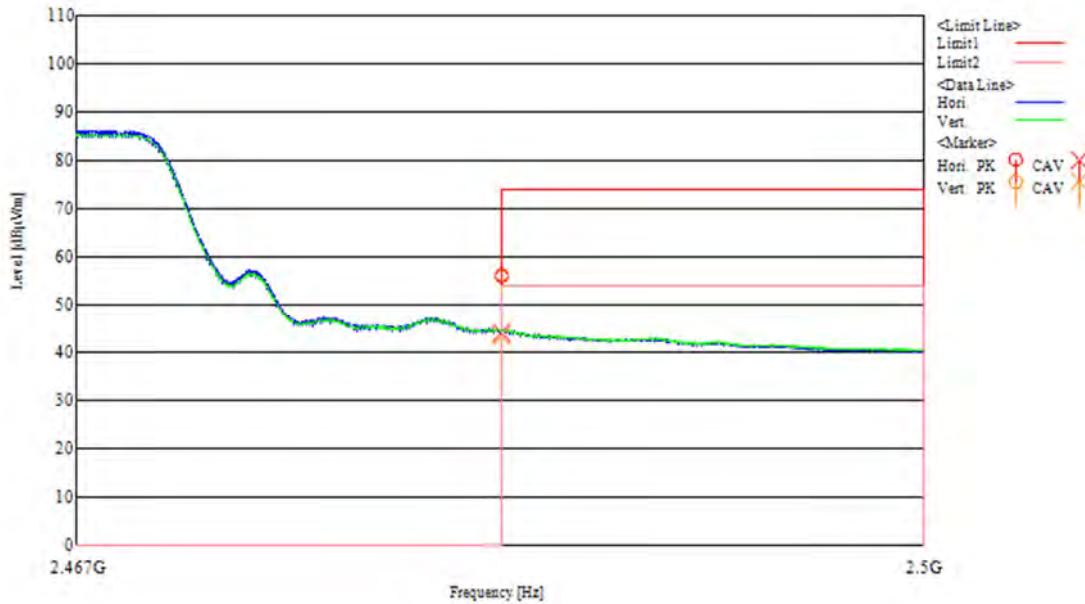
Tx 2422MHz 11n-HT40 Y-plane



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[Chart] Tx 2452MHz 11n_HT40 X-plane



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Test configuration: Configuration 3

Operating mode: Tx 2422MHz 11n-HT40 Y-plane [Worst case]

[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	57.3	41.5	4.8	62.1	46.7	73.9	53.9	11.8	7.2	Hori.
2	2390.000	55.8	40.5	4.8	60.6	45.7	73.9	53.9	13.3	8.2	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

Operating mode: Tx 2452MHz 11n-HT40 X-plane [Worst case]

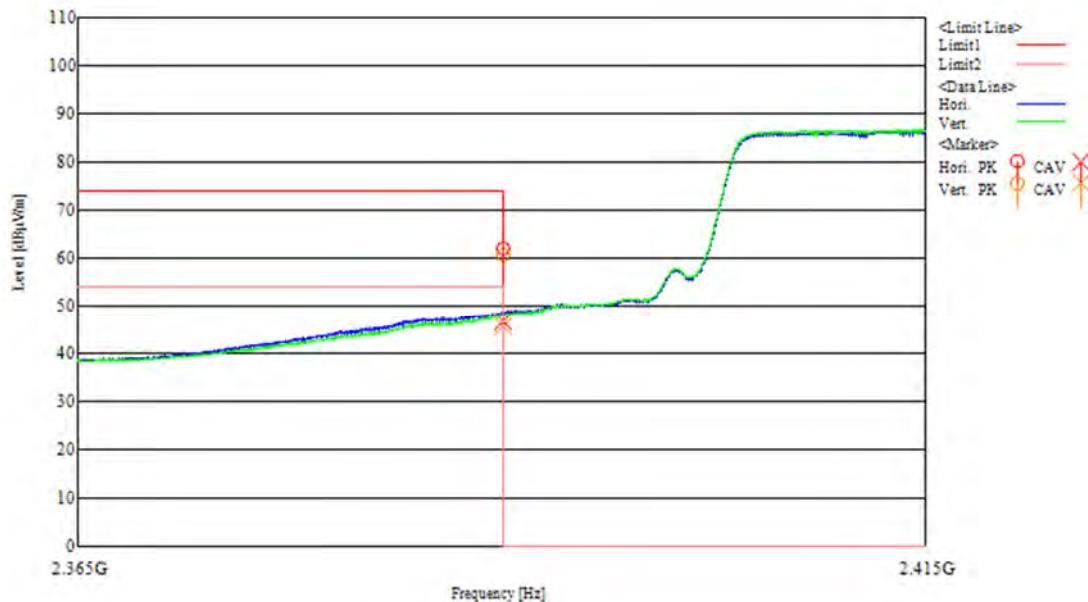
[Emission level]

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	56.7	37.4	5.4	62.1	43.2	73.9	53.9	11.8	10.7	Hori.
2	2483.500	55.4	36.6	5.4	60.8	42.4	73.9	53.9	13.1	11.5	Vert.

Note 1: 0.36dB was added to the average result as the duty cycle compensation (95.9%).

[Chart]

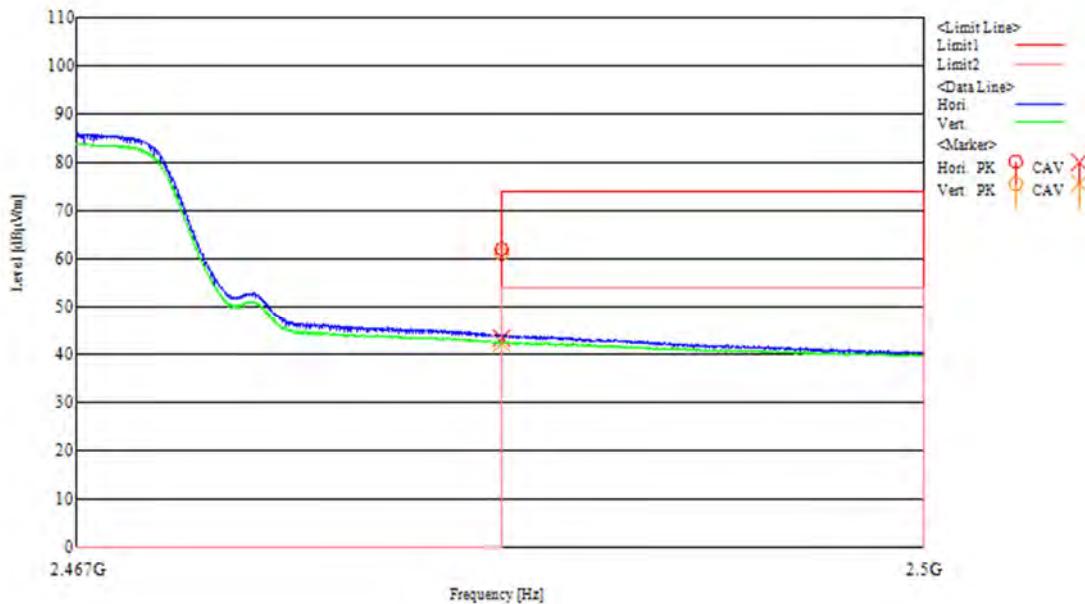
Tx 2422MHz 11n-HT40 Y-plane



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[Chart] Tx 2452MHz 11n_HT40 X-plane



Tested Date: 13 Sep. 2024
Humidity: 57 %

Temperature: 22 degC
Atmos. Press: 1008 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)

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

Test software used

EMI1 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 – Not Applicable

EUT operates on battery power only.

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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	FPC PCBA	0.5 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
DH06	DRG Horn Antenna	A.H. Systems	SAS-571	1339	2024/07/30	2026/07/31
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
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	2024/08/17	2025/08/31
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
AT38	Attenuator 30dB 75W 8.5GHz	Weinschel	WA29-30-34	8920	2024/03/05	2025/03/31
TR06	Test Receiver (F/W : 4.73 SP4)	Rohde & Schwarz	ESU26	100002	2023/12/15	2024/12/31

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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