FCC Test Report

Product Name	TUF GAMING M4 WIRELESS
Model No.	P306
FCC ID	H4IP306

Applicant	Lite-on Technology Corp.
Address	16F,392,Ruey Kuang Road,Neihu ,11492 Taipei, Taiwan

Date of Receipt	Jul. 29, 2021
Issued Date	Sep. 03, 2021
Report No.	2171179R-RFUSOTHV06
Report Version	V1.0
BC-MRA	Testing Laboratory

3023

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the

calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.



Test Report

Issued Date: Sep. 03, 2021 Report No.: 2171179R-RFUSOTHV06



Product Name	TUF GAMING M4 WIRELESS		
Applicant	Lite-on Technology Corp.		
Address	16F,392,Ruey Kuang Road,Neihu ,11492 Taipei, Taiwan		
Manufacturer	Lite-on Technology Corp.		
Model No.	P306		
FCC ID	H4IP306		
EUT Rated Voltage	DC 1.5V (Power by battery)		
EUT Test Voltage	DC 1.5V (Power by battery)		
Trade Name	ASUS		
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C		
	ANSI C63.4: 2014, ANSI C63.10: 2013		
Test Result	Complied		
Documented By :	(Senior Project Specialist / Joanne Lin)		
Tested By :	(Senior Engineer / Ivan Chuang)		
Approved By :	Dan Chen		

(Senior Engineer / Alan Chen)



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Revision History

Report No.	Version	Description	Issued Date
2171179R-RFUSOTHV06	V1.0	Initial issue of report.	2021-09-03



1. GENERAL INFORMATION

1.1. EUT Description

Product Name	TUF GAMING M4 WIRELESS	
Trade Name	ASUS	
Model No.	P306	
FCC ID	H4IP306	
Frequency Range	2403-2480MHz	
Channel Number	78CH	
Type of Modulation	GFSK	
Antenna Type	Ceramic Chip Antenna	
Antenna Gain	Refer to the table "Antenna List"	
Channel Control	Auto	

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Walsin	RFECA3216060A1T	Ceramic Chip Antenna	2 dBi for 2.4GHz

Note: The antenna of EUT is conform to FCC 15.203

Center Frequency of Each Channel:



Center Frequ	lency of Lach	Channel.			
Channel	Frequency	Channel Frequency	Channel Frequent	cy Channel	Frequency
Channel 01:	2403 MHz	Channel 21: 2423 MHz	Channel 41: 2443 MI	Hz Channel 61:	2463 MHz
Channel 02:	2404 MHz	Channel 22: 2424 MHz	Channel 42: 2444 MI	Hz Channel 62:	2464 MHz
Channel 03:	2405 MHz	Channel 23: 2425 MHz	Channel 43: 2445 MI	Hz Channel 63:	2465 MHz
Channel 04:	2406 MHz	Channel 24: 2426 MHz	Channel 44: 2446 MI	Hz Channel 64:	2466 MHz
Channel 05:	2407 MHz	Channel 25: 2427 MHz	Channel 45: 2447 MI	Hz Channel 65:	2467 MHz
Channel 06:	2408 MHz	Channel 26: 2428 MHz	Channel 46: 2448 MI	Hz Channel 66:	2468 MHz
Channel 07:	2409 MHz	Channel 27: 2429 MHz	Channel 47: 2449 MI	Hz Channel 67:	2469 MHz
Channel 08:	2410 MHz	Channel 28: 2430 MHz	Channel 48: 2450 MI	Hz Channel 68:	2470 MHz
Channel 09:	2411 MHz	Channel 29: 2431 MHz	Channel 49: 2451 MI	Hz Channel 69:	2471 MHz
Channel 10:	2412 MHz	Channel 30: 2432 MHz	Channel 50: 2452 MI	Hz Channel 70:	2472 MHz
Channel 11:	2413 MHz	Channel 31: 2433 MHz	Channel 51: 2453 MI	Hz Channel 71:	2473 MHz
Channel 12:	2414 MHz	Channel 32: 2434 MHz	Channel 52: 2454 MI	Hz Channel 72:	2474 MHz
Channel 13:	2415 MHz	Channel 33: 2435 MHz	Channel 53: 2455 MI	Hz Channel 73:	2475 MHz
Channel 14:	2416 MHz	Channel 34: 2436 MHz	Channel 54: 2456 MI	Hz Channel 74:	2476 MHz
Channel 15:	2417 MHz	Channel 35: 2437 MHz	Channel 55: 2457 MI	Hz Channel 75:	2477 MHz
Channel 16:	2418 MHz	Channel 36: 2438 MHz	Channel 56: 2458 MI	Hz Channel 76:	2478 MHz
Channel 17:	2419 MHz	Channel 37: 2439 MHz	Channel 57: 2459 MI	Hz Channel 77:	2479 MHz
Channel 18:	2420 MHz	Channel 38: 2440 MHz	Channel 58: 2460 MI	Hz Channel 78:	2480 MHz
Channel 19:	2421 MHz	Channel 39: 2441 MHz	Channel 59: 2461 MI	Ηz	
Channel 20:	2422 MHz	Channel 40: 2442 MHz	Channel 60: 2462 MI	Ηz	

- 1. The EUT is a TUF GAMING M4 WIRELESS with a built-in BluetoothV5.1 and 2.4G wireless transceiver, this report is for 2.4G wireless.
- 2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
- 3. These tests are conducted on a sample of the equipment for the purpose of demonstrating compliance of transmitter with Part 15 Subpart C Paragraph 15.249 for spread spectrum devices.

Test Mede	Mode 1: Transmit
Test Mode	Mode 2: Normal mode

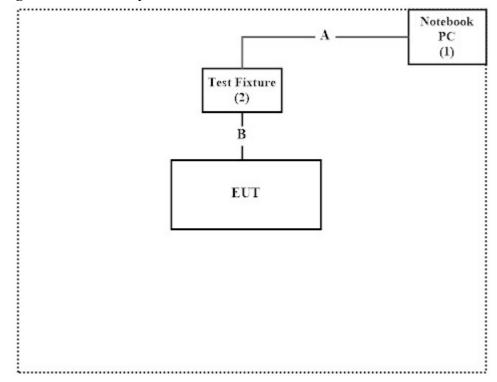
1.2. Tested System Datails

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Pro	oduct	Manufacturer	Model No.	Serial No.	Power Cord
1	Notebook PC	Notebook PC	DELL	Latitude 5501	N/A
2	Test Fixture	Mercury	MCS-73 LV	N/A	N/A

Signal Cable Type		Signal cable Description
А	USB Cable	Shielded, 1.8m
В	Signal Cable	Non-shielded, 0.25m

1.3. Configuration of Test System



1.4. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.3.
- (2) Execute software "Terminal ver. 1.93b" on the Notebook PC.
- (3) Configure the test mode and the test channel
- (4) Start the continuous transmit.
- (5) Verify that the EUT works properly.



1.5. Test Facility

Ambient conditions in the laboratory:

Performed Item	Items	Required	Actual
De liste 1 Decision	Temperature (°C)	10~40 °C	63.1 °C
Radiated Emission	Humidity (%RH)	10~90 %	22.7 %
	Temperature (°C)	10~40 °C	22 °C
Conductive	Humidity (%RH)	10~90 %	55 %

USA :	FCC Registration	Number: TW0033
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Canada : IC Registration Number: 26930

Site Description	:	Accredited by TAF Accredited Number: 3023
Test Laboratory	:	DEKRA Testing and Certification Co., Ltd
Address	:	No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan,
		R.O.C.
Phone number	:	+886-3-275-7255
Fax number	:	+866-3-327-5505
Email address	:	<u>info.tw@dekra.com</u>
Website	:	http://www.dekra.com.tw



1.6. List of Test Equipment

For Conduction measurements /SH1

Equipmer	nt	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
EMI Test	Receiver	R&S	ESR7	101601	2021.01.04	2022.01.03
Two-Line	V-Network	R&S	ENV216	101306	2021.04.08	2022.04.07
Two-Line	V-Network	R&S	ENV216	101307	2021.05.04	2022.05.03
Coaxial C	able	DEKRA	RG400_BNC	RF001	2021.05.24	2022.05.23

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked with "X" are used to measure the final test results.
- 3. Test Software version : DEKRA Testing System V2.0

For Conducted measurements /SH2

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
Х	Spectrum Analyzer	R&S	FSV30	103466	2020.12.28	2021.12.27
Х	Peak Power Analyzer	Anritsu	ML2496A	1548002	2021.02.24	2022.02.23
Х	Wideband Power Sensor	Anritsu	MA2411B	1531023	2021.02.24	2022.02.23
Х	Wideband Power Sensor	Anritsu	MA2411B	1531022	2021.02.24	2022.02.23

Note:

- 1. All equipments are calibrated every one year.
- 2. The test instruments marked with "X" are used to measure the final test results.
- 3. Test Software version : DEKRA Conduction Test System V9.0.5.

For Radiated measurements /966-1 / 966-3

	Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Due. Date
Х	Loop Antenna	AMETEK	HLA6121	56736	2021.04.14	2022.04.13
Х	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-678	2021.09.04	2022.09.03
Х	Horn Antenna	ETS-Lindgren	3117	00203761	2020.11.23	2021.11.22
	Horn Antenna	Com-Power	AH-840	101087	2020.06.08	2021.06.07
Х	Pre-Amplifier	EMCI	EMC001330	980254	2021.01.20	2022.01.19
Х	Pre-Amplifier	EMCI	EMC051835SE	980312	2021.02.24	2022.02.23
	Pre-Amplifier	EMCI	EMC05820SE	980308	2020.09.18	2021.09.17
	Pre-Amplifier	EMCI	EMC184045SE	980369	2021.04.27	2022.04.26
Х	Filter	MICRO TRONICS	BRM50702	G251	2020.09.17	2021.09.16
	Filter	MICRO TRONICS	BRM50716	G188	2020.09.17	2021.09.16
Х	EMI Test Receiver	R&S	ESR7	102793	2020.12.17	2021.12.16
Х	Spectrum Analyzer	R&S	FSV3044	101115	2021.02.03	2022.02.02
Х	Coaxial Cable	SGH, EMCI	HA800 , SGH18	HY2103-001C	2021.03.03	2022.03.02
Х	Mircoflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3381/2	2021.06.25	2022.06.24

Note:

1. All equipments are calibrated every one year.

2. The test instruments marked with "X" are used to measure the final test results.

3. Test Software version : DEKRA Testing System V2.0.

1.7. Uncertainty

Uncertainties have been calculated according to the DEKRA internal document, and is described in each test chapter of this report.

The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

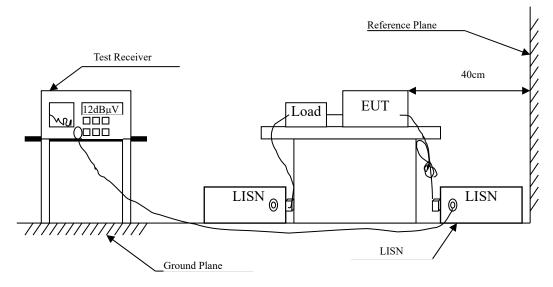
Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Test item	Uncertainty		
Conducted Emission	±3.42 dB		
Radiated Emission	Under 1GHz	Above 1GHz	
	±4.06 dB	±3.73 dB	
Band Edge	Under 1GHz	Above 1GHz	
Baild Euge	±4.06 dB	±3.73 dB	
Duty Cycle	±2.3	1 ms	



2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBµV) Limit					
Frequency	Limits				
MHz	QP	AV			
0.15 - 0.50	66-56	56-46			
0.50-5.0	56	46			
5.0 - 30	60	50			

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

2.3. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.



2.4. Test Result of Conducted Emission

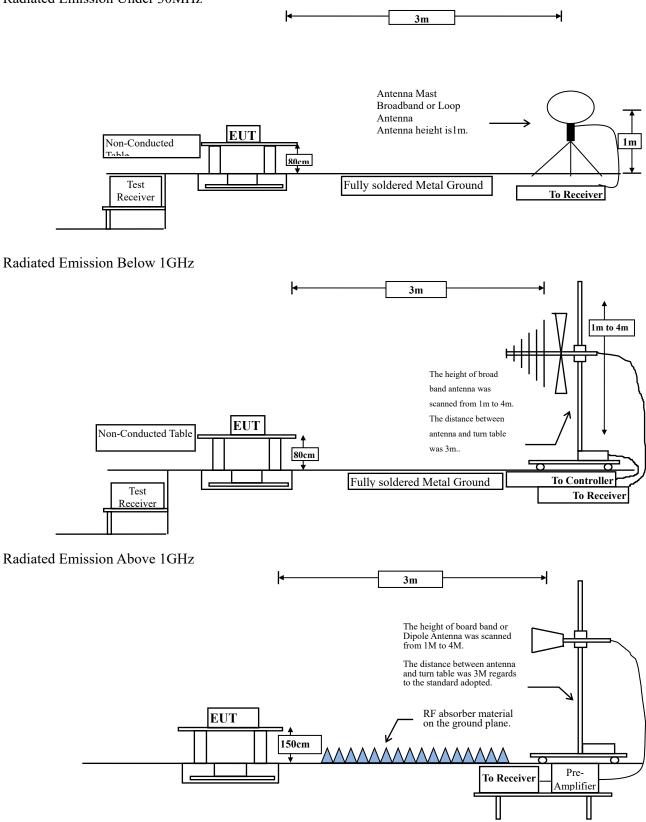
Owing to the DC operation of EUT, this test item is not performed.



3. Radiated Emission

3.1. Test Setup

Radiated Emission Under 30MHz



3.2. Limits

FCC Part 15 Subpart C Paragraph 15.249 Limits							
Frequency	Field Strength	of Fundamental	Field Strength of Harmonics				
MHz	(mV/m @3m) (dBµV /m		(uV/m@3m)	(dBµV/m			
		@3m)		@3m)			
902-928	50	94	500	54			
2400-2483.5	50	94	500	54			
5725-5875	50	94	500	54			
24000-24250	250	108	2500	68			

> Fundamental and Harmonics Emission Limits

Remarks : 1. RF Voltage $(dB\mu V / m) = 20 \log RF$ Voltage (uV/m)

2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

➤ General Radiated Emission Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15	FCC Part 15 Subpart C Paragraph 15.209(a) Limits					
Frequency MHz	Field strength	Measurement distance				
11112	(microvolts/meter)	(meter)				
0.009-0.490	2400/F(kHz)	300				
0.490-1.705	24000/F(kHz)	30				
1.705-30	30	30				
30-88	100	3				
88-216	150	3				
216-960	200	3				
Above 960	500	3				

Remarks: E field strength $(dB\mu V / m) = 20 \log E$ field strength (uV/m)

3.3. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested compliance to FCC 47CFR 15.249 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters. The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the

maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement. The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

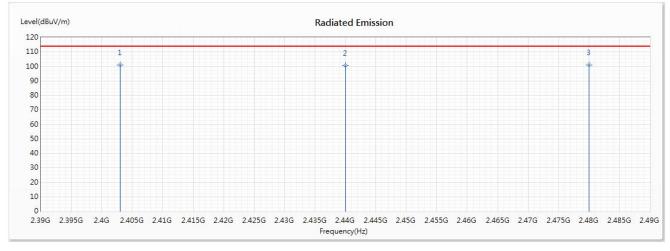
The measurement frequency range form 9kHz - 10th Harmonic of fundamental was investigated.



3.4. Test Result of Radiated Emission

Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Fundamental Radiated Emission
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit

Horizontal_X-Axis



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	2403.000	101.10	114.00	-12.90	90.75	10.35	РК
2	2440.000	100.66	114.00	-13.34	90.14	10.52	РК
3	2480.000	100.92	114.00	-13.08	90.11	10.81	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.

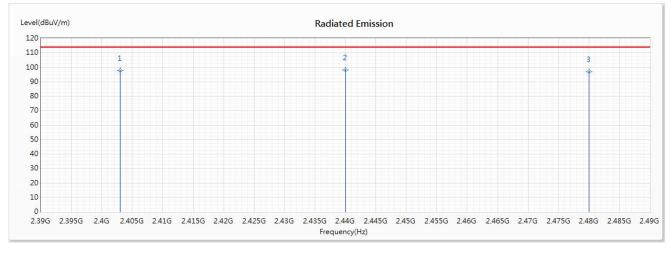
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2403.000	101.100	-24.258	76.842	-17.158	94.000
2440.000	100.660	-24.258	76.402	-17.598	94.000
2480.000	100.920	-24.258	76.662	-17.338	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Fundamental Radiated Emission
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit

Vertical_X-Axis



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2403.000	97.88	114.00	-16.12	87.53	10.35	РК
* 2	2440.000	97.96	114.00	-16.04	87.44	10.52	РК
3	2480.000	96.80	114.00	-17.20	85.99	10.81	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.

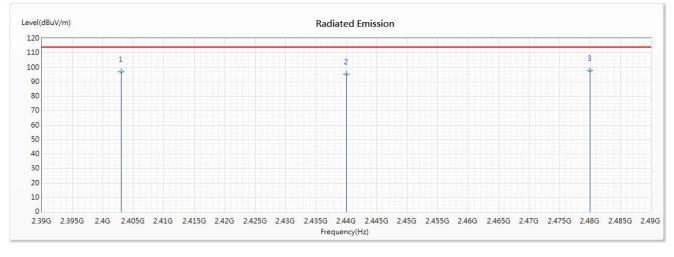
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2403.000	97.880	-24.258	73.622	-20.378	94.000
2440.000	97.960	-24.258	73.702	-20.298	94.000
2480.000	96.800	-24.258	72.542	-21.458	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Fundamental Radiated Emission
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit

Horizontal_Y-Axis



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2403.000	96.82	114.00	-17.18	86.47	10.35	РК
2	2440.000	95.27	114.00	-18.73	84.75	10.52	РК
* 3	2480.000	97.91	114.00	-16.09	87.10	10.81	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.

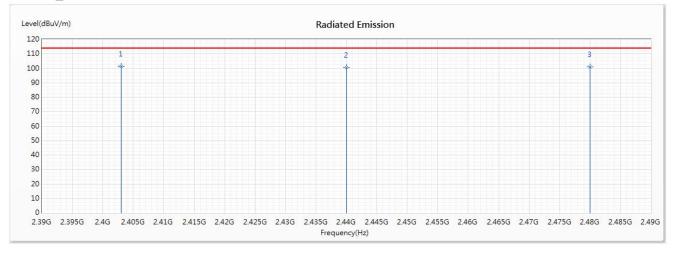
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2403.000	96.820	-24.258	72.562	-21.438	94.000
2440.000	95.270	-24.258	71.012	-22.988	94.000
2480.000	97.910	-24.258	73.652	-20.348	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Fundamental Radiated Emission
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit

Vertical_Y-Axis



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	2403.000	101.35	114.00	-12.65	91.00	10.35	РК
2	2440.000	100.46	114.00	-13.54	89.94	10.52	РК
3	2480.000	101.09	114.00	-12.91	90.28	10.81	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.

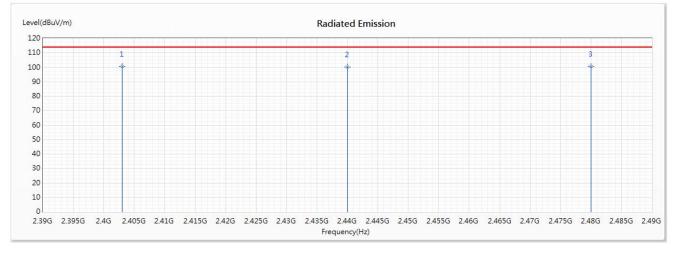
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2403.000	101.350	-24.258	77.092	-16.908	94.000
2440.000	100.460	-24.258	76.202	-17.798	94.000
2480.000	101.090	-24.258	76.832	-17.168	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Fundamental Radiated Emission
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit

Horizontal_Z-Axis



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	2403.000	100.52	114.00	-13.48	90.17	10.35	РК
2	2440.000	100.32	114.00	-13.68	89.80	10.52	РК
3	2480.000	100.45	114.00	-13.55	89.64	10.81	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.

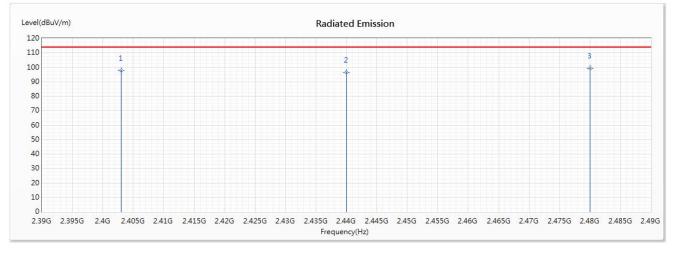
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2403.000	100.520	-24.258	76.262	-17.738	94.000
2440.000	100.320	-24.258	76.062	-17.938	94.000
2480.000	100.450	-24.258	76.192	-17.808	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Fundamental Radiated Emission
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit

Vertical_Z-Axis



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2403.000	97.66	114.00	-16.34	87.31	10.35	РК
2	2440.000	96.47	114.00	-17.53	85.95	10.52	РК
* 3	2480.000	99.23	114.00	-14.77	88.42	10.81	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.

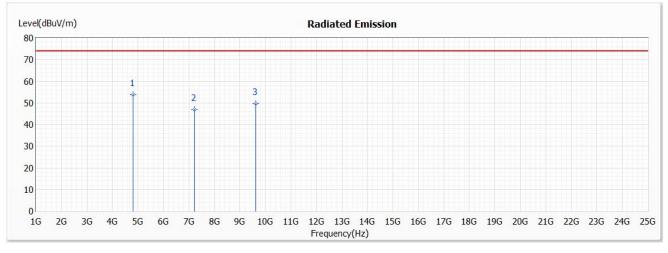
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2403.000	97.660	-24.258	73.402	-20.598	94.000
2440.000	96.470	-24.258	72.212	-21.788	94.000
2480.000	99.230	-24.258	74.972	-19.028	94.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2403MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4806.000	53.76	74.00	-20.24	57.23	-3.47	PK
2	7209.000	46.88	74.00	-27.12	46.28	0.60	PK
3	9612.000	49.64	74.00	-24.36	47.16	2.48	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.

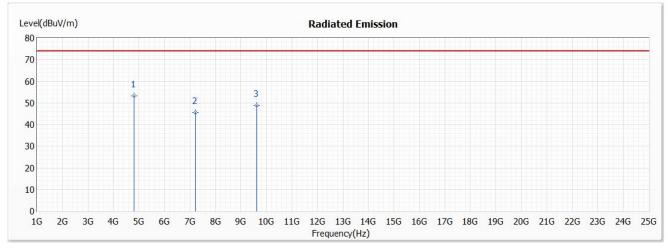
Frequency	Peak	Duty Cycle	Average	Margin	Peak	Average
	Measurement	Factor	Measurement		Limit	Limit
MHz	$dB\mu V/m$	dB	dBµV/m	dB	dBµV/m	dBµV/m
Average Detector:						
					74.000	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2403MHz)

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4806.000	53.37	74.00	-20.63	56.84	-3.47	PK
2	7209.000	45.39	74.00	-28.61	44.79	0.60	РК
3	9612.000	48.71	74.00	-25.29	46.23	2.48	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.

Frequency	Peak	Duty Cycle	Average	Margin	Peak	Average
	Measurement	Factor	Measurement		Limit	Limit
MHz	$dB\mu V/m$	dB	$dB\mu V/m$	dB	$dB\mu V/m$	dBµV/m
Average Detector:						
					74.000	54.000

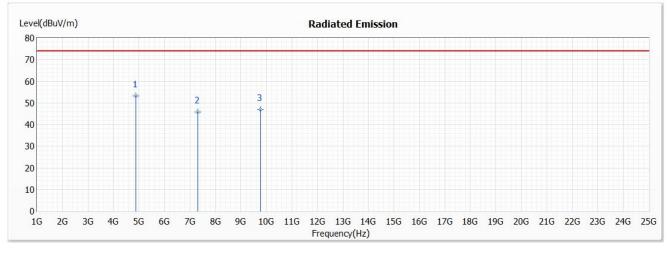
Note:

1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor

2. The Duty Cycle is refer to section 5.

Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2440MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4880.000	53.12	74.00	-20.88	56.50	-3.38	РК
2	7320.000	45.89	74.00	-28.11	45.25	0.64	РК
3	9760.000	46.97	74.00	-27.03	44.36	2.61	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.

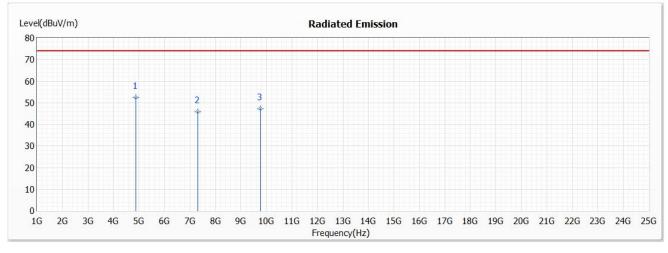
Frequency	Peak	Duty Cycle	Average	Margin	Peak	Average
	Measurement	Factor	Measurement		Limit	Limit
MHz	$dB\mu V/m$	dB	dBµV/m	dB	dBµV/m	dBµV/m
Average Detector:						
					74.000	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2440MHz)

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	4880.000	52.50	74.00	-21.50	55.88	-3.38	РК
2	7320.000	45.82	74.00	-28.18	45.18	0.64	РК
3	9760.000	47.06	74.00	-26.94	44.45	2.61	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.

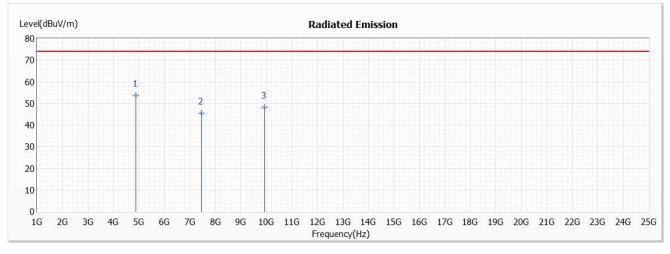
Frequency	Peak	Duty Cycle	Average	Margin	Peak	Average
	Measurement	Factor	Measurement		Limit	Limit
MHz	$dB\mu V/m$	dB	$dB\mu V/m$	dB	$dB\mu V/m$	dBµV/m
Average Detector:						
					74.000	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2480MHz)

Horizontal



No	Frequency (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
		(dBuV/m)					
* 1	4960.000	53.67	74.00	-20.33	57.05	-3.38	РК
2	7440.000	45.63	74.00	-28.37	45.03	0.60	РК
3	9920.000	48.17	74.00	-25.83	45.33	2.84	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.

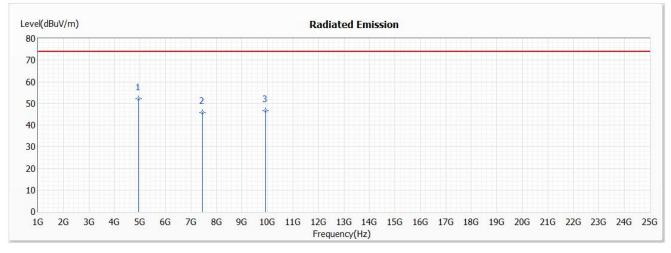
Frequency	Peak	Duty Cycle	Average	Margin	Peak	Average
	Measurement	Factor	Measurement		Limit	Limit
MHz	$dB\mu V/m$	dB	dBµV/m	dB	$dB\mu V/m$	dBµV/m
Average Detector:						
					74.000	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Harmonic Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2480MHz)

Vertical



No	Frequency (MHz)	Emission Level	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
		(dBuV/m)					
* 1	4960.000	52.07	74.00	-21.93	55.25	-3.18	PK
2	7440.000	45.84	74.00	-28.16	45.24	0.60	PK
3	9920.000	46.62	74.00	-27.38	43.78	2.84	РК

Note:

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 5. The average measurement was not performed when the peak measured data under the limit of average detection.
- 6. The emission levels of other frequencies are very lower than the limit and not show in test report.

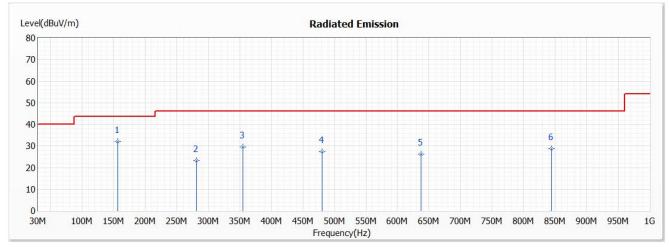
Frequency	Peak	Duty Cycle	Average	Margin	Peak	Average
	Measurement	Factor	Measurement		Limit	Limit
MHz	$dB\mu V/m$	dB	dBµV/m	dB	$dB\mu V/m$	dBµV/m
Average Detector:						
					74.000	54.000

- 1. AVG Measurement=Peak Measurement + Duty Cycle Correct Factor
- 2. The Duty Cycle is refer to section 5.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	General Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2440MHz)

Horizontal



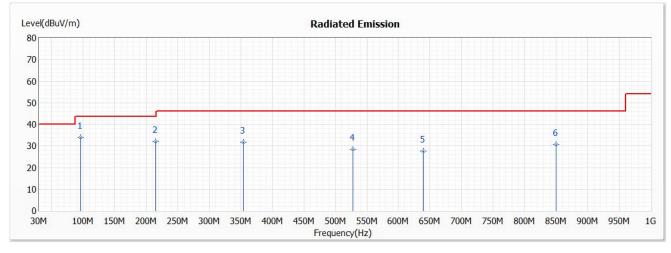
No	Frequency	Emission	Limit	Margin	•	Correct Factor	Detector
	(MHz)	Level (dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(dB)	Туре
* 1	156.100	31.89	43.50	-11.61	42.22	-10.33	QP
2	281.230	23.18	46.00	-22.82	33.37	-10.19	QP
3	354.950	29.42	46.00	-16.58	37.86	-8.44	QP
4	480.080	27.36	46.00	-18.64	32.85	-5.49	QP
5	637.220	26.33	46.00	-19.67	29.03	-2.70	QP
6	843.830	28.72	46.00	-17.28	28.79	-0.07	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



Product	:	TUF GAMING M4 WIRELESS
Test Item	:	General Radiated Emission Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2440MHz)

Vertical



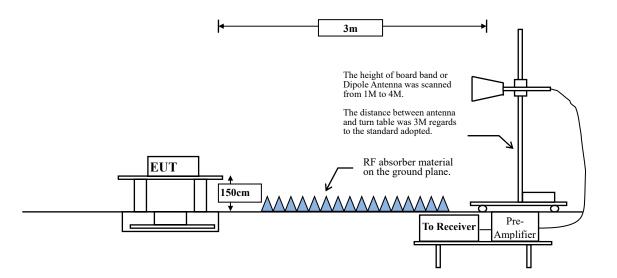
No	Frequency	Emission	Limit	Margin	Reading Level	Correct Factor	Detector
	(MHz)	Level	(dBuV/m)	(dB)	(dBuV)	(dB)	Туре
		(dBuV/m)					
* 1	95.960	33.82	43.50	-9.68	50.40	-16.58	QP
2	215.270	31.93	43.50	-11.57	44.87	-12.94	QP
3	353.980	31.78	46.00	-14.22	40.24	-8.46	QP
4	527.610	28.38	46.00	-17.62	32.84	-4.46	QP
5	639.160	27.56	46.00	-18.44	30.22	-2.66	QP
6	849.650	30.58	46.00	-15.42	30.55	0.03	QP

- 1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Measurement Level = Reading Level + Correct Factor.
- 3. Correct Factor = Antenna factor + Cable loss Amplifier gain.
- 4. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 5. No emission found between lowest internal used/generated frequency to 30MHz.



4. Band Edge

4.1. Test Setup RF Radiated Measurement:



4.2. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits									
Frequency	Field strength	Measurement distance							
MHz	(microvolts/meter)	(meter)							
0.009-0.490	2400/F(kHz)	300							
0.490-1.705	24000/F(kHz)	30							
1.705-30	30	30							
30-88	100	3							
88-216	150	3							
216-960	200	3							
Above 960	500	3							

Remarks: E field strength $(dB\mu V/m) = 20 \log E$ field strength (uV/m)

4.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

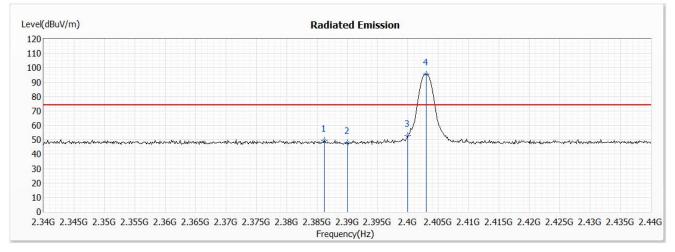
The bandwidth setting below 1GHz and above 1GHz on the field strength meter is 120 kHz and 1MHz, respectively.



4.4. Test Result of Band Edge

Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Band Edge Data
Test Date	:	2021/08/18
Test Mode	:	Mode 1: Transmit (2403MHz)

Horizontal



1	No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
	1	2386.200	49.66	74.00	-24.34	39.30	10.36	РК
	2	2390.000	47.97	74.00	-26.03	37.62	10.35	РК
	3	2400.000	52.97	74.00	-21.03	42.63	10.34	РК
	4	2403.000	95.79			85.44	10.35	РК

Note:

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.

Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)	Result
2386.200	49.660	-24.258	25.402	-28.598	54.000	Pass
2390.000	47.970	-24.258	23.712	-30.288	54.000	Pass
2400.000	52.970	-24.258	28.712	-25.288	54.000	Pass
2403.000	95.790	-24.258	71.532			Pass

Note:

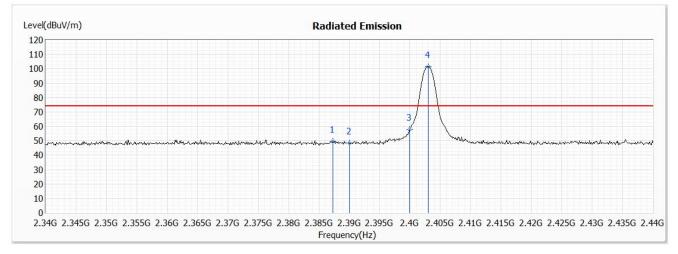
1. Average Measurement=Peak Measurement + Duty Cycle Factor

2. The Duty Cycle is refer to section 5.



- Product : TUF GAMING M4 WIRELESS
- Test Item : Band Edge Data
- Test Date : 2021/08/18
- Test Mode : Mode 1: Transmit (2403MHz)

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2387.300	49.72	74.00	-24.28	39.36	10.36	РК
2	2390.000	48.28	74.00	-25.72	37.93	10.35	РК
3	2400.000	57.80	74.00	-16.20	47.46	10.34	РК
4	2403.000	101.55			91.20	10.35	РК

Note:

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.

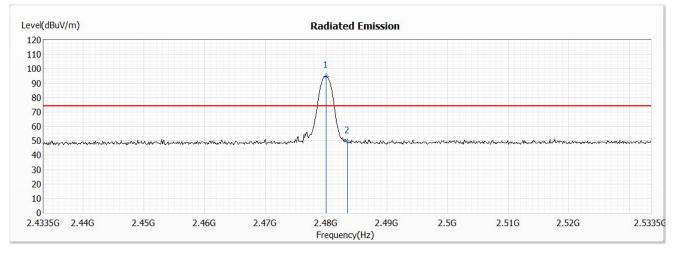
Fraguanay	Peak	Duty Cycle	Average		Average Limit	
Frequency	Measurement	Factor	Measurement	Margin (dB)	(dBµV/m)	Result
(MHz)	$(dB\mu V/m)$	(dB)	(dBµV/m)			
2387.300	49.720	-24.258	25.462	-28.538	54.000	Pass
2390.000	48.280	-24.258	24.022	-29.978	54.000	Pass
2400.000	57.800	-24.258	33.542	-20.458	54.000	Pass
2403.000	101.550	-24.258	77.292			Pass

- 1. Average Measurement=Peak Measurement + Duty Cycle Factor
- 2. The Duty Cycle is refer to section 5.



- Product : TUF GAMING M4 WIRELESS
- Test Item : Band Edge Data
- Test Date : 2021/08/18
- Test Mode : Mode 1: Transmit (2480MHz)

Horizontal



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	94.82			84.01	10.81	РК
2	2483.500	49.15	74.00	-24.85	38.31	10.84	РК

Note:

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.

Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)	Result
2480.000	94.820	-24.258	70.562			Pass
2483.500	49.150	-24.258	24.892	-29.108	54.000	Pass

Note:

1. Average Measurement=Peak Measurement + Duty Cycle Factor

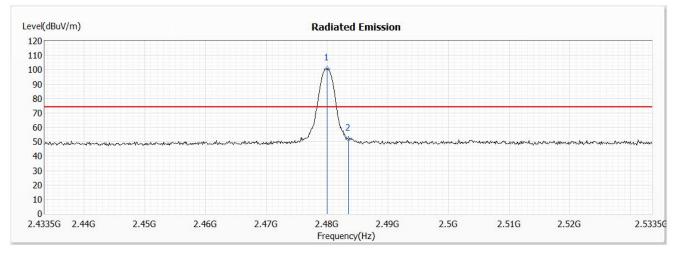
2. The Duty Cycle is refer to section 5.



Product :	TUF GAMING M4 WIRELESS
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- Test Item : Band Edge Data
- Test Date : 2021/08/18
- Test Mode : Mode 1: Transmit (2480MHz)

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2480.000	100.73			89.92	10.81	РК
2	2483.500	51.92	74.00	-22.08	41.08	10.84	РК

Note:

- 1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
- 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
- 3. Measurement Level = Reading Level + Correct Factor.
- 4. The average measurement was not performed when the peak measured data under the limit of average detection.

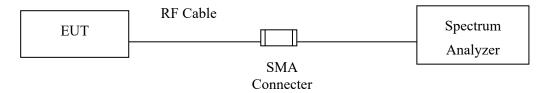
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)	Result
2480.000	100.730	-24.258	76.472			Pass
2483.500	51.920	-24.258	27.662	-26.338	54.000	Pass

- 1. Average Measurement=Peak Measurement + Duty Cycle Factor
- 2. The Duty Cycle is refer to section 5.



5. Duty Cycle

5.1. Test Setup





5.2. Test Result of Duty Cycle

Product	:	TUF GAMING M4 WIRELESS
Test Item	:	Duty Cycle Data
Test Mode	:	Mode 2: Normal mode

100	🎉 Keysight Spectrum Analyzer - Swept SA					
Program Auto Tur Indextreme Indextreme <td< td=""><td></td><td>00 GHz</td><td>Av</td><td></td><td>TRACE 1 2 3 4 5 6</td><td>Frequency</td></td<>		00 GHz	Av		TRACE 1 2 3 4 5 6	Frequency
1000 10000 1000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 10000 100000 1000000 10000000 10000000 10000000 10000000 10000000 10000000 10000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 100000000 1000000000 1000000000 10000000000000 1000000000000000000000000000000000000	10 dB/div Ref 0.00 dBm					Auto Tune
300 Image: start Free 2.403000000 GHz 400 Image: start Free 2.403000000 GHz 400 Image: start Free 2.403000000 GHz 500 Image: start Free 2.403000000 GHz						Center Free 2.403000000 GH
50.0 50.0		,				Start Free 2.403000000 GH
Company Company <t< td=""><td></td><td></td><td></td><td></td><td></td><td>Stop Fre 2.403000000 GH</td></t<>						Stop Fre 2.403000000 GH
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Center 2.403000000 GHz Span 0 Hz						Freq Offse 0 H
	90.0					
Res BW 1.0 MHz #VBW 3.0 MHz Sweep 100.0 ms (1001 pts)	Center 2.403000000 GHz Res BW 1.0 MHz	#VBW 3.0 MH	z	Sweep 1		

Keysigl	ht Spectre	um Ar RF									1015 AL 101				ALIGN	41170				40.000		
ente	r Fre		.4030		AC 000	GH	z		Tric	: Free	ISE:INT		Avg			J-Pwr		TR	ACE 1	2 3 4 5	6	Frequency
0 dB/d	div i	Ref	0.00	dBr	n		O: Fas ain:Lo			ten: 10						7	7W		DET P	5 ms 0 dE	s	Auto Tu
- og 10.0												Ŷ	1	ŗ		ſ	ľ	2∆1				Center F 2.403000000 0
40.0 50.0 50.0						-																Start Fi 2.403000000 0
70.0 30.0	thrat the	harth	ninged (it)	η ν	wift	viļini	ural da	u y hrly	Nylyn	Maryty	munun	n,∣	NINN HUN	- _{MA}	hiyar	机机	n,tv	ፑታቁጥ	Wind	mantp	7	Stop Fr 2.403000000 0
es B	r 2.40 W 1.0	м		GH	z		#\	/BW	3.0	MHz		- 111/-	TION			ep 5		0 ms		n 0 Hz)1 pts)	CF Si 1.000000 M Auto M
1 N 2 Δ1 3 4 5 6 7 8 9 10 11	1	t	(Δ)				<u>15 ms</u> 25 ms		-22	<u>85 dE</u> 6.20	3m											Freq Off 0

Time on of 100ms= 6.125ms (1.225*5ms)

Duty Cycle= 6.125ms / 100ms= 0.06125

Duty Cycle correction factor= 20 LOG 0.06125= -24.258 dB

Duty Cycle correction factor	-24.258 dB
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6. EMI Reduction Method During Compliance Testing

No modification was made during testing.