

FCC Test Report

Product Name	TUF Gaming H3 Wireless gaming headset
Model No.	TUF GAMING H3 WIRELESS
FCC ID	BJM-TUFH3WL

Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3 ,Taipei 10451,Taiwan

Date of Receipt	Oct. 05, 2020
Issued Date	Nov. 18, 2020
Report No.	20A0020R-E3032110120
Report Version	V1.0



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.

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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

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Product Name	TUF Gaming H3 Wireless gaming headset
Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3 ,Taipei 10451,Taiwan
Manufacturer	Tatung Company
Model No.	TUF GAMING H3 WIRELESS
FCC ID	BJM-TUFH3WL
EUT Rated Voltage	DC 5V (Power by USB) or DC 3.7V (Power by Battery)
EUT Test Voltage	DC 5V (Power by USB)
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

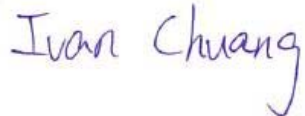
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(Senior Adm. Specialist / Joanne Lin)

Tested By

:



(Senior Engineer / Ivan Chuang)

Approved By

:



(Director / Vincent Lin)

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Revision History

Report No.	Version	Description	Issued Date
20A0020R-E3032110120	V1.0	Initial issue of report.	2020-11-18

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	TUF Gaming H3 Wireless gaming headset
Trade Name	ASUS
Model No.	TUF GAMING H3 WIRELESS
FCC ID	BJM-TUFH3WL
Frequency Range	2405.35-2477.35MHz
Channel Number	37CH
Type of Modulation	Pi/4 DQPSK
Antenna Type	PCB Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
USB to Type-C Cable	MFR: ASUS, M/N: TUF GAMING H3 WIRELESS, Shielded, 1m
Connecter	MFR: ASUS, M/N: TUF GAMING H3 WIRELESS

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Advanced Ceramic X Corp.	N/A (Antenna 1) (Antenna 2)	PCB Antenna	3.1dBi for 2.4GHz

Note: The antenna of EUT is conform to FCC 15.203

Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency
Channel 01:	2405.35 MHz	Channel 21:	2445.35 MHz
Channel 02:	2407.35 MHz	Channel 22:	2447.35 MHz
Channel 03:	2409.35 MHz	Channel 23:	2449.35 MHz
Channel 04:	2411.35 MHz	Channel 24:	2451.35 MHz
Channel 05:	2413.35 MHz	Channel 25:	2453.35 MHz
Channel 06:	2415.35 MHz	Channel 26:	2455.35 MHz
Channel 07:	2417.35 MHz	Channel 27:	2457.35 MHz
Channel 08:	2419.35 MHz	Channel 28:	2459.35 MHz
Channel 09:	2421.35 MHz	Channel 29:	2461.35 MHz
Channel 10:	2423.35 MHz	Channel 30:	2463.35 MHz
Channel 11:	2425.35 MHz	Channel 31:	2465.35 MHz
Channel 12:	2427.35 MHz	Channel 32:	2467.35 MHz
Channel 13:	2429.35 MHz	Channel 33:	2469.35 MHz
Channel 14:	2431.35 MHz	Channel 34:	2471.35 MHz
Channel 15:	2433.35 MHz	Channel 35:	2473.35 MHz
Channel 16:	2435.35 MHz	Channel 36:	2475.35 MHz
Channel 17:	2437.35 MHz	Channel 37:	2477.35 MHz
Channel 18:	2439.35 MHz		
Channel 19:	2441.35 MHz		
Channel 20:	2443.35 MHz		

Note:

1. The EUT is a TUF Gaming H3 Wireless gaming headset with a built-in 2.4GHz wireless transceiver.
2. The EUT support diversity function. The worst case (Antenna 1 and Antenna 2) is shown in the report.
3. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
4. 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.
5. The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

Test Mode	Mode 1: Transmit Mode 2: Normal mode
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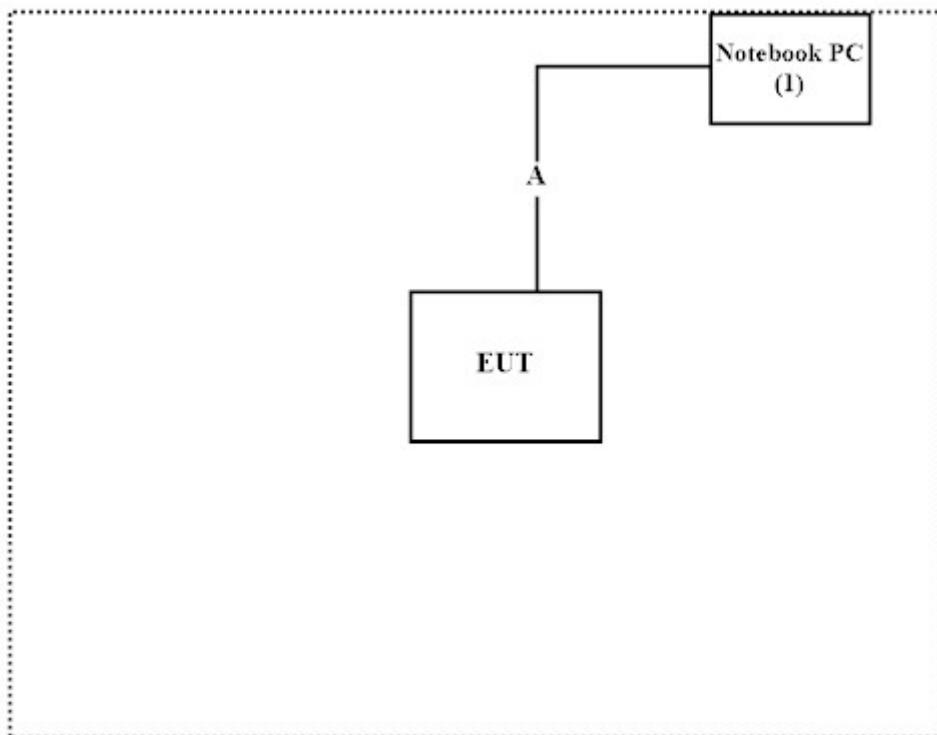
1.2. Tested System Details

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

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	DELL	Inspiron 15 3000	4V5JPJ2	N/A

Signal Cable Type	Signal cable Description
A USB to Type-C Cable	Shielded, 1m

1.3. Configuration of Test System



1.4. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.3.
- (2) Execute “RF Power V2018.5.18.1” program 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
Conducted Emission	Temperature (°C)	10~40 °C	24.7°C
	Humidity (%RH)	10~90 %	50.9%
Radiated Emission	Temperature (°C)	10~40 °C	23.5°C
	Humidity (%RH)	10~90 %	65.5%
Conductive	Temperature (°C)	10~40 °C	23.2°C
	Humidity (%RH)	10~90 %	56%

USA : **FCC Registration Number: TW0023**

Canada : **IC Registration Number: 25880**

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No.159, Sec. 2, Wenhua 1st Rd., Linkou Dist.,
New Taipei City 24457, Taiwan, R.O.C.

Phone number : 886-2-2602-7968
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Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.6. List of Test Equipment

For Conduction measurements /ASR1

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	EMI Test Receiver	R&S	ESR7	101601	2020.05.28	2021.05.27
X	Two-Line V-Network	R&S	ENV216	101306	2020.03.25	2021.03.24
X	Two-Line V-Network	R&S	ENV216	101307	2020.04.17	2021.04.16
X	Coaxial Cable	DEKRA	RG400_BNC	RF001	2020.05.24	2021.05.23

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 /ASR2

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Spectrum Analyzer	R&S	FSV30	103466	2019.12.16	2020.12.15
	Peak Power Analyzer	KEYSIGHT	8900B	MY51000539	2020.05.13	2021.05.12
	Power Sensor	KEYSIGHT	N1923A	MY59240002	2020.05.22	2021.05.21
	Power Sensor	KEYSIGHT	N1923A	MY59240003	2020.05.22	2021.05.21

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 /ACB1

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Loop Antenna	AMETEK	HLA6121	49611	2020.03.16	2021.03.15
X	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-953	2020.01.03	2021.01.02
X	Horn Antenna	ETS-Lindgren	3117	00203800	2019.12.12	2020.12.11
X	Horn Antenna	Com-Power	AH-840	101087	2020.06.08	2021.06.07
X	Pre-Amplifier	EMCI	EMC001330	980316	2020.06.23	2021.06.22
X	Pre-Amplifier	EMCI	EMC051835SE	980311	2020.06.23	2021.06.22
X	Pre-Amplifier	EMCI	EMC05820SE	980310	2020.06.24	2021.06.23
X	Pre-Amplifier	EMCI	EMC184045SE	980314	2020.06.10	2021.06.09
X	Filter	MICRO TRONICS	BRM50702	G251	2020.09.17	2021.09.16
	Filter	MICRO TRONICS	BRM50716	G188	2020.09.17	2021.09.16
X	EMI Test Receiver	R&S	ESR7	101602	2019.12.16	2020.12.15
X	Spectrum Analyzer	R&S	FSV40	101148	2020.03.16	2021.03.15
X	Coaxial Cable	SUHNER	SUCOFLEX 106	RF002	2020.07.03	2021.07.02
X	Mircoflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3381/2	2020.06.10	2021.06.09

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.

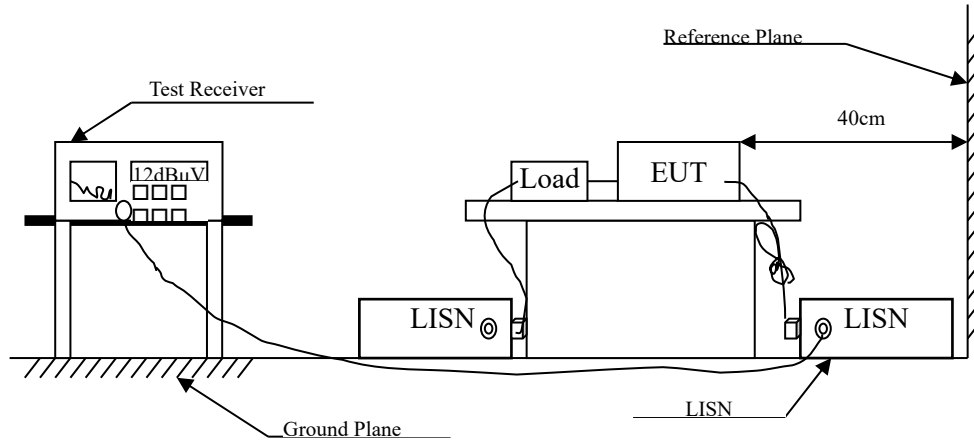
The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

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 ± 4.06 dB	Above 1GHz ± 3.73 dB
Band Edge	Under 1GHz ± 4.06 dB	Above 1GHz ± 3.73 dB
Duty Cycle	± 2.31 ms	

2. Conducted Emission

2.1. Test Setup



2.2. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dB μ V) Limit		
Frequency MHz	Limits	
	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

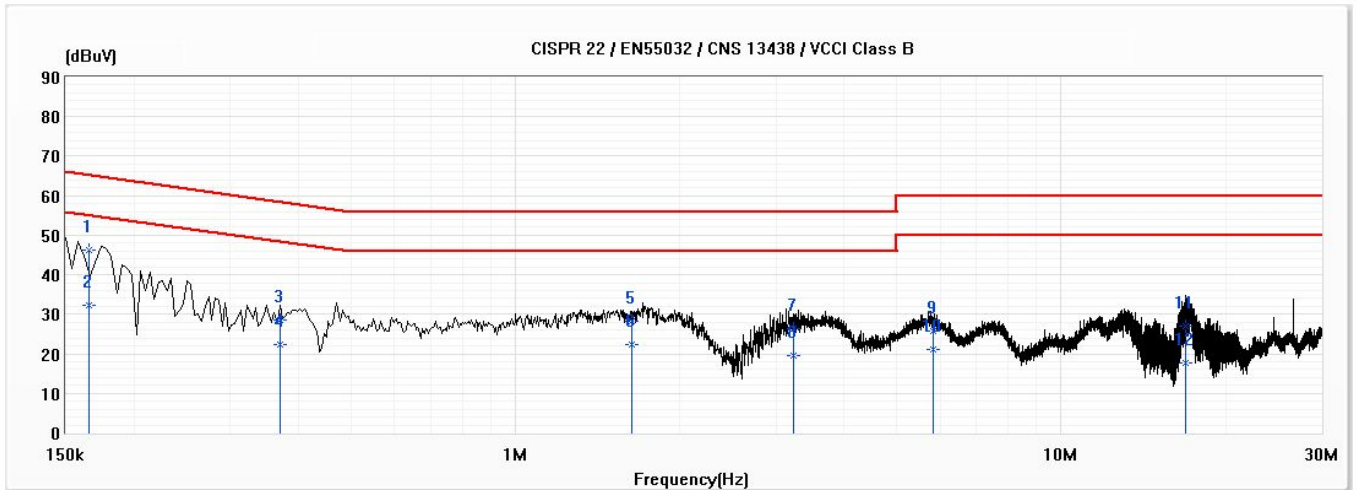
The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling 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 investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.4. Test Result of Conducted Emission

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Conducted Emission Test
 Power Line : L 1
 Test Date : 2020/11/09
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 1)

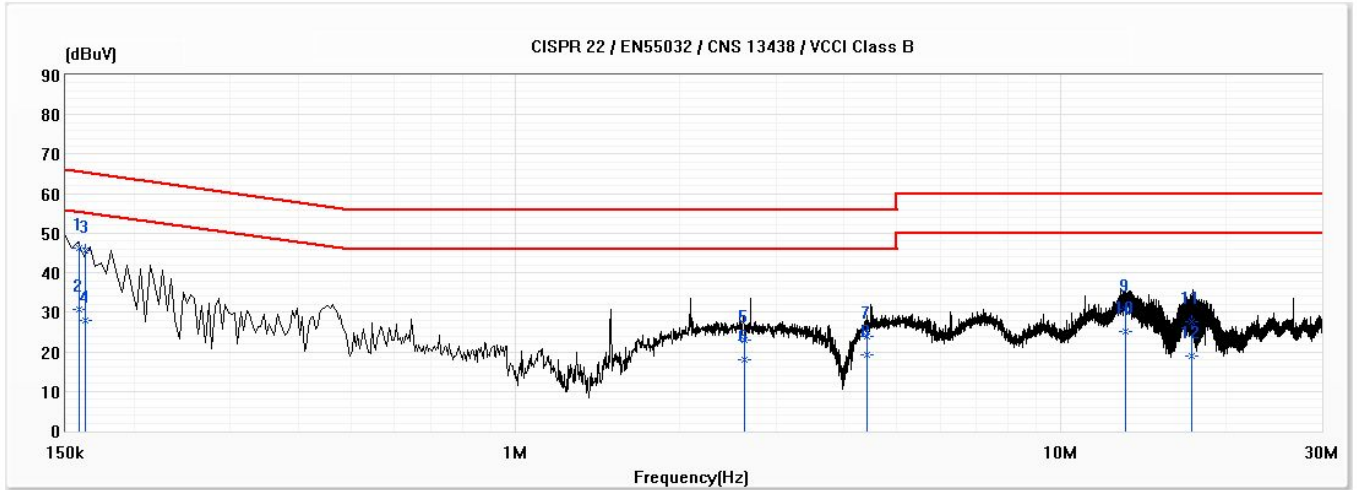


No	Frequency (MHz)	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
*1	0.165	46.15	65.19	-19.04	36.49	9.66	QP
2	0.165	32.32	55.19	-22.87	22.66	9.66	AV
3	0.370	28.44	58.50	-30.06	18.79	9.66	QP
4	0.370	22.21	48.50	-26.29	12.55	9.66	AV
5	1.636	28.27	56.00	-27.73	18.56	9.71	QP
6	1.636	22.48	46.00	-23.52	12.77	9.71	AV
7	3.230	26.40	56.00	-29.60	16.65	9.75	QP
8	3.230	19.42	46.00	-26.58	9.67	9.75	AV
9	5.834	25.67	60.00	-34.33	15.86	9.82	QP
10	5.834	21.02	50.00	-28.98	11.21	9.82	AV
11	16.937	26.96	60.00	-33.04	17.01	9.95	QP
12	16.937	17.55	50.00	-32.45	7.59	9.95	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Conducted Emission Test
 Power Line : N
 Test Date : 2020/11/09
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 1)

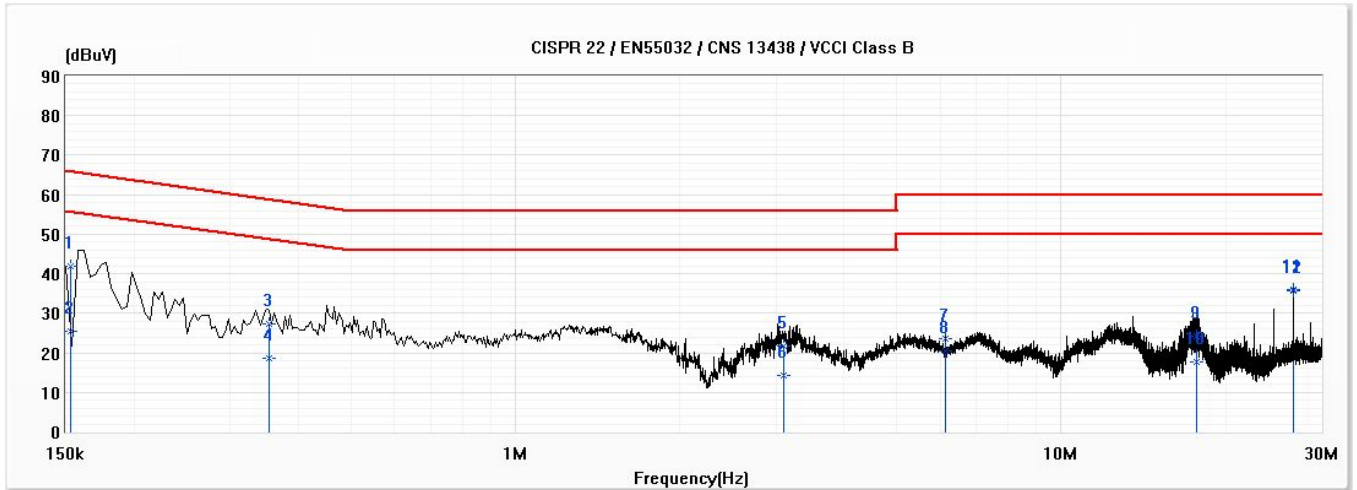


No	Frequency (MHz)	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
*1	0.158	46.33	65.55	-19.22	36.66	9.67	QP
2	0.158	30.69	55.55	-24.86	21.02	9.67	AV
3	0.163	45.75	65.32	-19.57	36.08	9.67	QP
4	0.163	27.87	55.32	-27.45	18.20	9.67	AV
5	2.632	23.09	56.00	-32.91	13.34	9.74	QP
6	2.632	18.15	46.00	-27.85	8.41	9.74	AV
7	4.408	24.02	56.00	-31.98	14.23	9.79	QP
8	4.408	19.21	46.00	-26.79	9.42	9.79	AV
9	13.121	30.77	60.00	-29.23	20.81	9.97	QP
10	13.121	25.16	50.00	-24.84	15.20	9.97	AV
11	17.317	27.76	60.00	-32.24	17.74	10.02	QP
12	17.317	18.96	50.00	-31.04	8.94	10.02	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Conducted Emission Test
 Power Line : L 1
 Test Date : 2020/11/10
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 2)

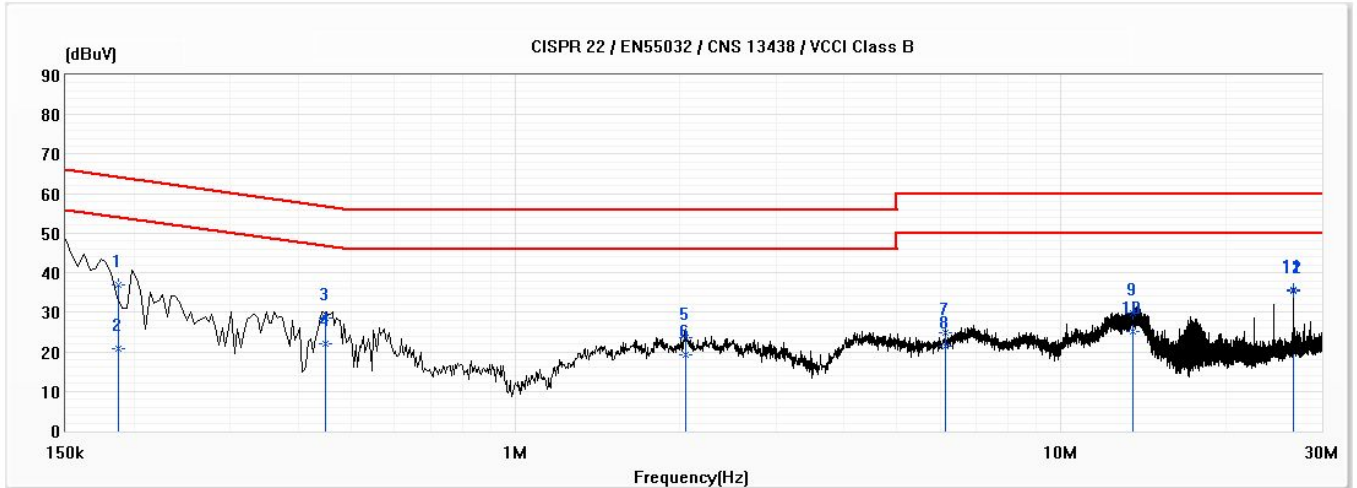


No	Frequency (MHz)	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	0.153	41.78	65.85	-24.07	32.12	9.66	QP
2	0.153	25.45	55.85	-30.40	15.79	9.66	AV
3	0.355	27.21	58.85	-31.64	17.56	9.66	QP
4	0.355	18.75	48.85	-30.10	9.10	9.66	AV
5	3.108	21.58	56.00	-34.42	11.83	9.75	QP
6	3.108	14.28	46.00	-31.72	4.53	9.75	AV
7	6.144	23.60	60.00	-36.40	13.78	9.82	QP
8	6.144	20.57	50.00	-29.43	10.75	9.82	AV
9	17.683	24.24	60.00	-35.76	14.28	9.96	QP
10	17.683	17.62	50.00	-32.38	7.66	9.96	AV
11	26.624	36.12	60.00	-23.88	26.16	9.96	QP
*12	26.624	35.78	50.00	-14.22	25.83	9.96	AV

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Conducted Emission Test
 Power Line : N
 Test Date : 2020/11/10
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 2)



No	Frequency (MHz)	Emission Level (dBμV)	Limit (dBμV)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	0.188	36.95	64.14	-27.19	27.28	9.67	QP
2	0.188	20.79	54.14	-33.35	11.12	9.67	AV
3	0.449	28.60	56.89	-28.29	18.93	9.67	QP
4	0.449	22.06	46.89	-24.83	12.39	9.67	AV
5	2.048	23.60	56.00	-32.40	13.87	9.73	QP
6	2.048	19.24	46.00	-26.76	9.51	9.73	AV
7	6.144	24.82	60.00	-35.18	14.98	9.83	QP
8	6.144	21.34	50.00	-28.66	11.51	9.83	AV
9	13.561	29.84	60.00	-30.16	19.87	9.97	QP
10	13.561	25.10	50.00	-24.90	15.13	9.97	AV
11	26.624	35.78	60.00	-24.22	25.70	10.08	QP
*12	26.624	35.38	50.00	-14.62	25.29	10.08	AV

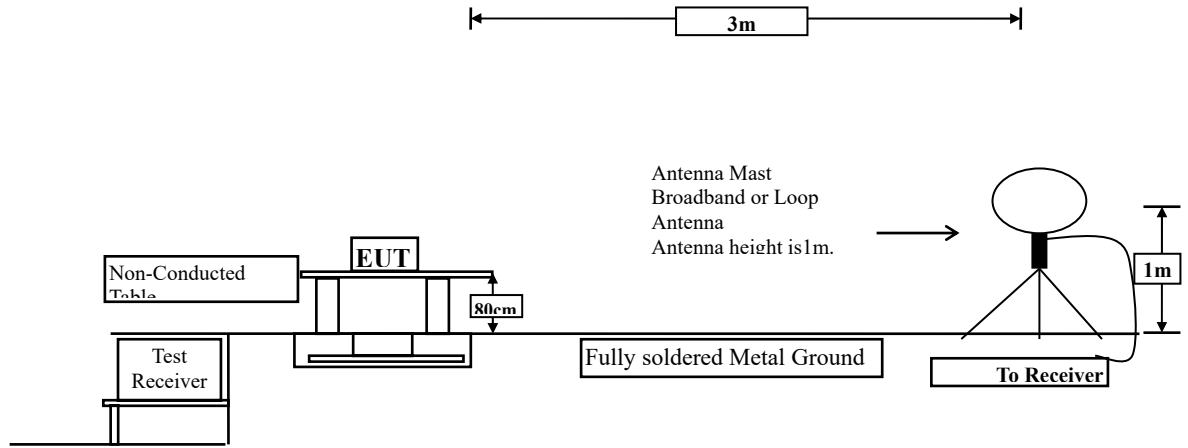
Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ * “ means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

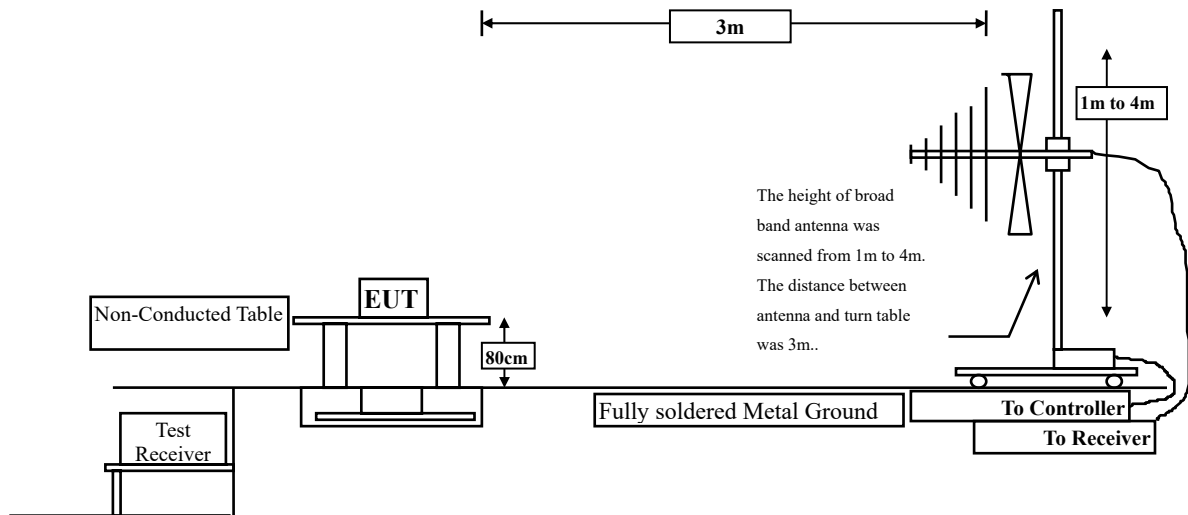
3. Radiated Emission

3.1. Test Setup

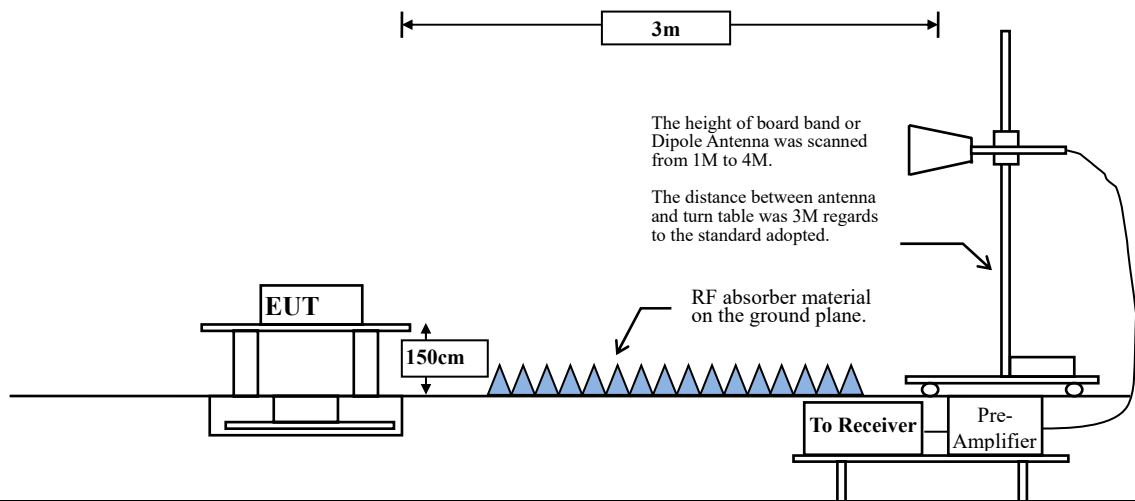
Radiated Emission Under 30MHz



Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



3.2. Limits

➤ Fundamental and Harmonics Emission Limits

FCC Part 15 Subpart C Paragraph 15.249 Limits				
Frequency MHz	Field Strength of Fundamental		Field Strength of Harmonics	
	(mV/m @3m)	(dB μ V /m @3m)	(uV/m @3m)	(dB μ V /m @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

Remarks : 1. RF Voltage (dB μ 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 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (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 μ 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.

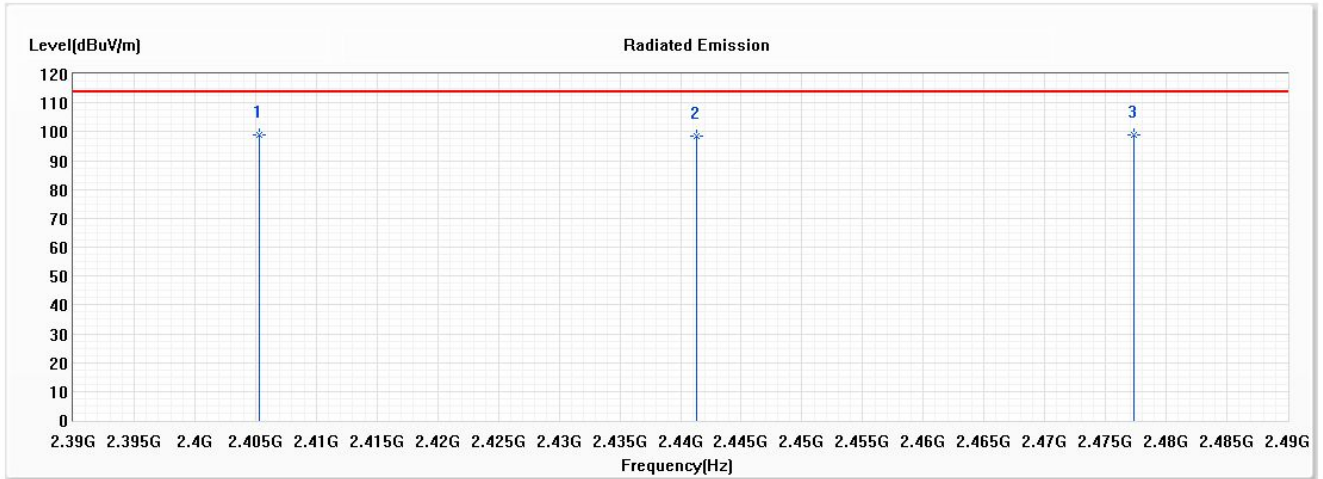
The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the 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 from 9kHz - 10th Harmonic of fundamental was investigated.

3.4. Test Result of Radiated Emission

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 1)

Horizontal_X-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
* 1	2405.350	98.99	114.00	-15.01	87.30	11.69	PK
2	2441.350	98.39	114.00	-15.61	86.56	11.83	PK
3	2477.350	98.82	114.00	-15.18	86.84	11.98	PK

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.

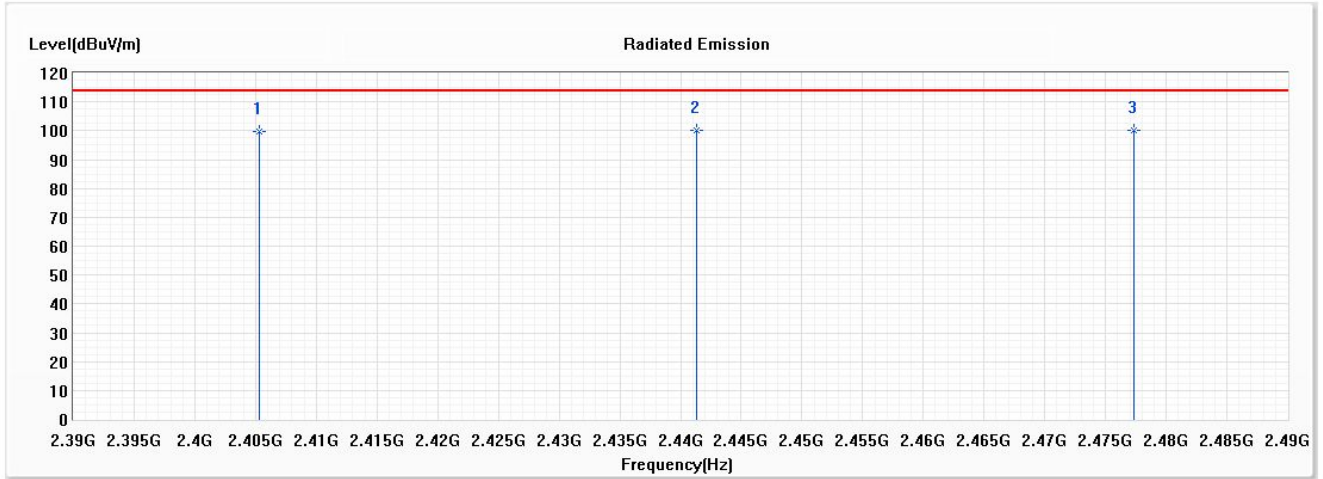
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	98.990	-34.067	64.923	-29.077	94.000
2441.350	98.390	-34.067	64.323	-29.677	94.000
2477.350	98.820	-34.067	64.753	-29.247	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 1)

Vertical_X-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2405.350	99.67	114.00	-14.33	87.98	11.69	PK
* 2	2441.350	100.04	114.00	-13.96	88.21	11.83	PK
3	2477.350	99.94	114.00	-14.06	87.96	11.98	PK

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.

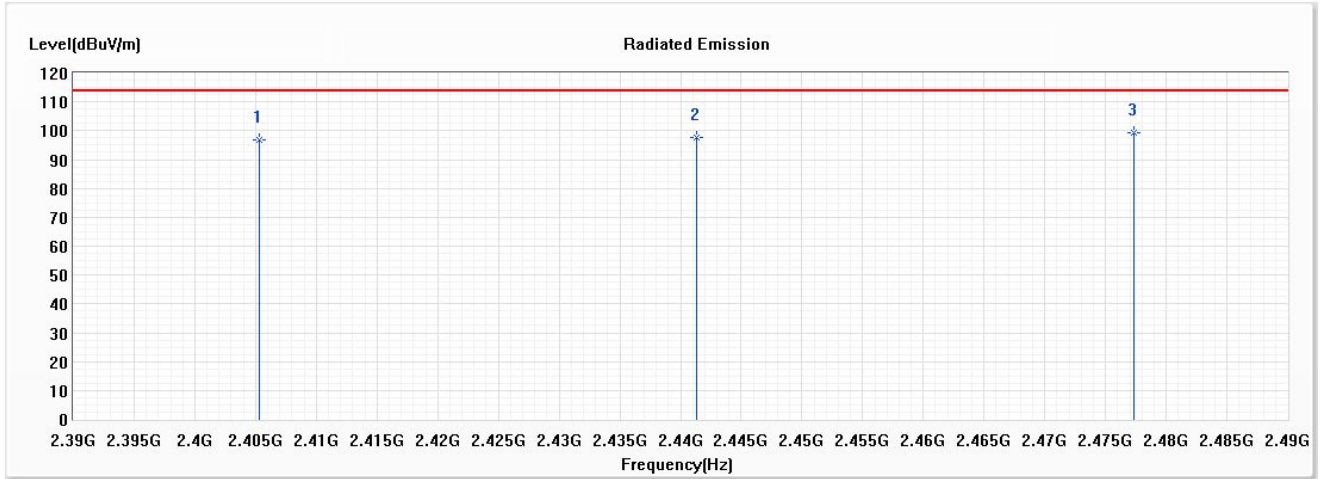
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	99.670	-34.067	65.603	-28.397	94.000
2441.350	100.040	-34.067	65.973	-28.027	94.000
2477.350	99.940	-34.067	65.873	-28.127	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 1)

Horizontal_Y-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2405.350	96.83	114.00	-17.17	85.14	11.69	PK
2	2441.350	97.85	114.00	-16.15	86.02	11.83	PK
* 3	2477.350	99.12	114.00	-14.88	87.14	11.98	PK

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.

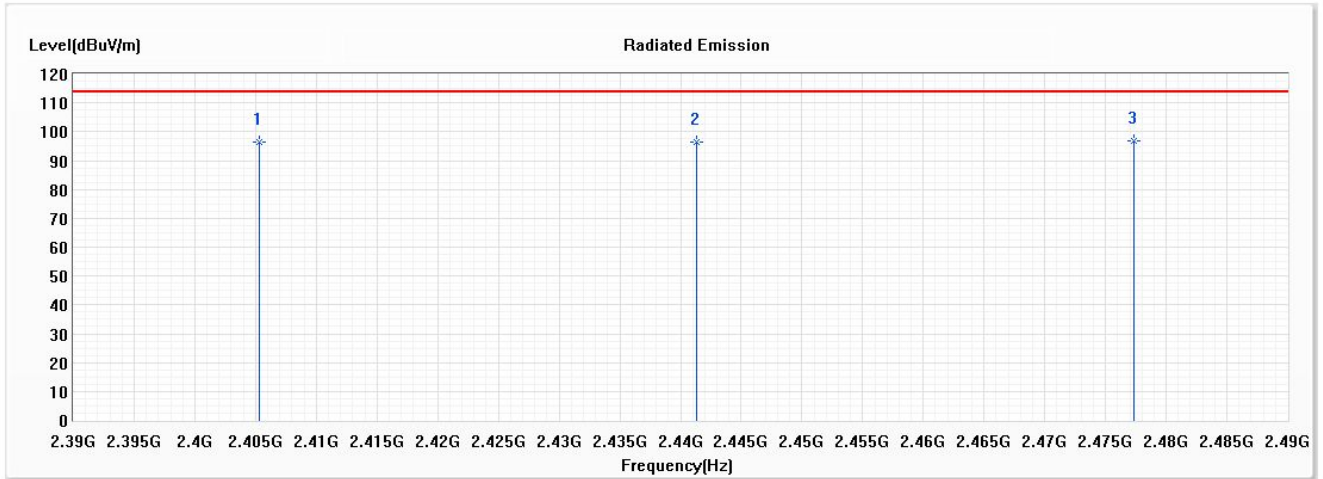
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	96.830	-34.067	62.763	-31.237	94.000
2441.350	97.850	-34.067	63.783	-30.217	94.000
2477.350	99.120	-34.067	65.053	-28.947	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 1)

Vertical_Y-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2405.350	96.56	114.00	-17.44	84.87	11.69	PK
2	2441.350	96.52	114.00	-17.48	84.69	11.83	PK
* 3	2477.350	96.75	114.00	-17.25	84.77	11.98	PK

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.

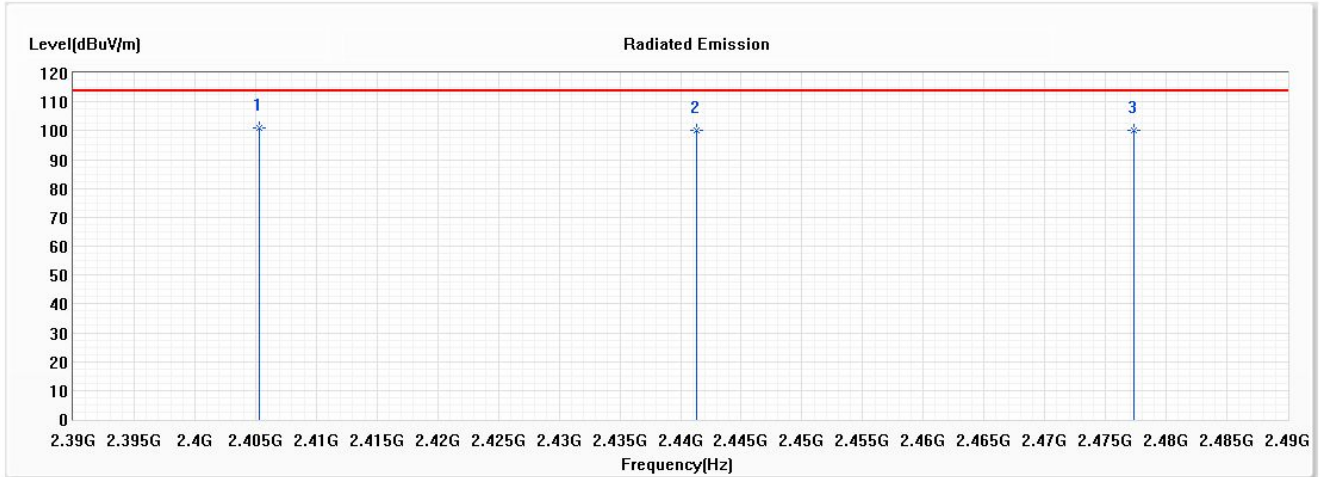
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	96.560	-34.067	62.493	-31.507	94.000
2441.350	96.520	-34.067	62.453	-31.547	94.000
2477.350	96.750	-34.067	62.683	-31.317	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 1)

Horizontal_Z-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
* 1	2405.350	101.16	114.00	-12.84	89.47	11.69	PK
2	2441.350	99.99	114.00	-14.01	88.16	11.83	PK
3	2477.350	100.00	114.00	-14.00	88.02	11.98	PK

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.

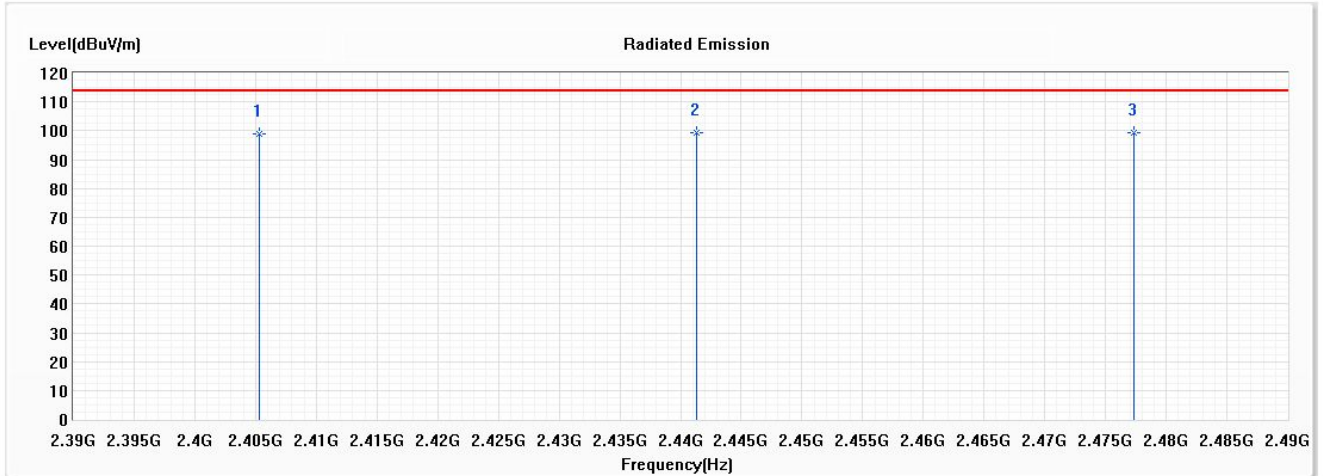
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	101.160	-34.067	67.093	-26.907	94.000
2441.350	99.990	-34.067	65.923	-28.077	94.000
2477.350	100.000	-34.067	65.933	-28.067	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 1)

Vertical_Z-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2405.350	98.75	114.00	-15.25	87.06	11.69	PK
2	2441.350	99.28	114.00	-14.72	87.45	11.83	PK
* 3	2477.350	99.29	114.00	-14.71	87.31	11.98	PK

Note:

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

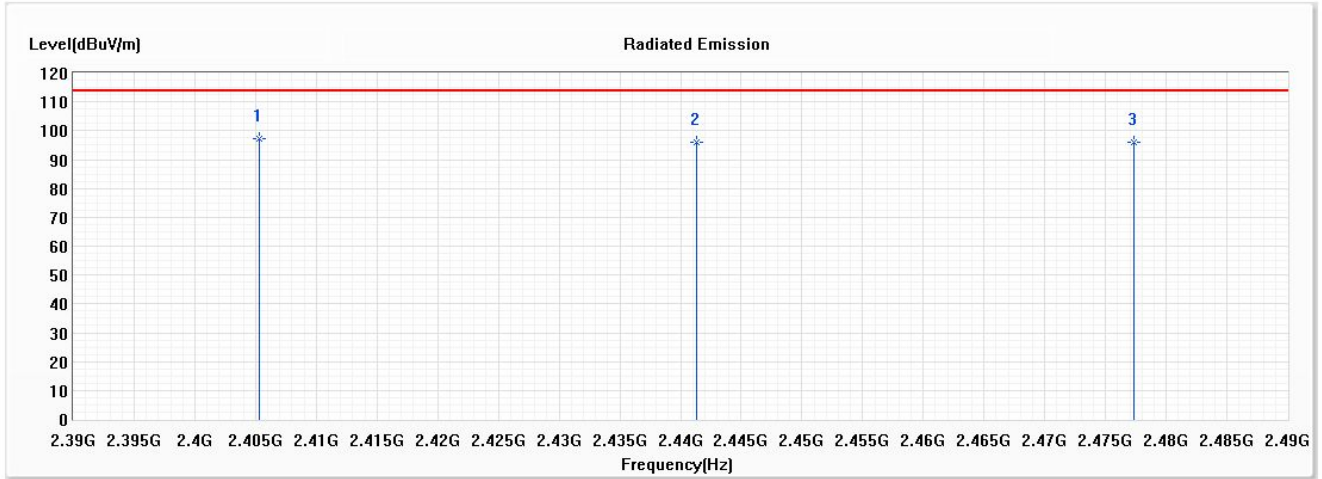
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	98.750	-34.067	64.683	-29.317	94.000
2441.350	99.280	-34.067	65.213	-28.787	94.000
2477.350	99.290	-34.067	65.223	-28.777	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 2)

Horizontal_X-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
* 1	2405.350	97.27	114.00	-16.73	85.58	11.69	PK
2	2441.350	96.06	114.00	-17.94	84.23	11.83	PK
3	2477.350	95.87	114.00	-18.13	83.89	11.98	PK

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.

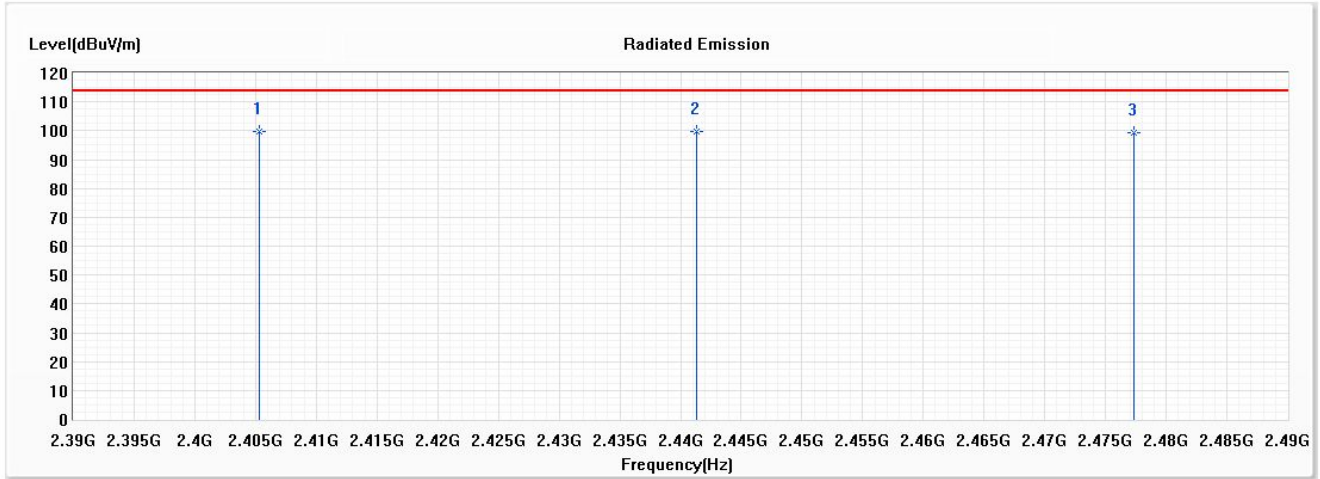
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	97.270	-34.067	63.203	-30.797	94.000
2441.350	96.060	-34.067	61.993	-32.007	94.000
2477.350	95.870	-34.067	61.803	-32.197	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 2)

Vertical_X-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
* 1	2405.350	99.88	114.00	-14.12	88.19	11.69	PK
2	2441.350	99.55	114.00	-14.45	87.72	11.83	PK
3	2477.350	99.23	114.00	-14.77	87.25	11.98	PK

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.

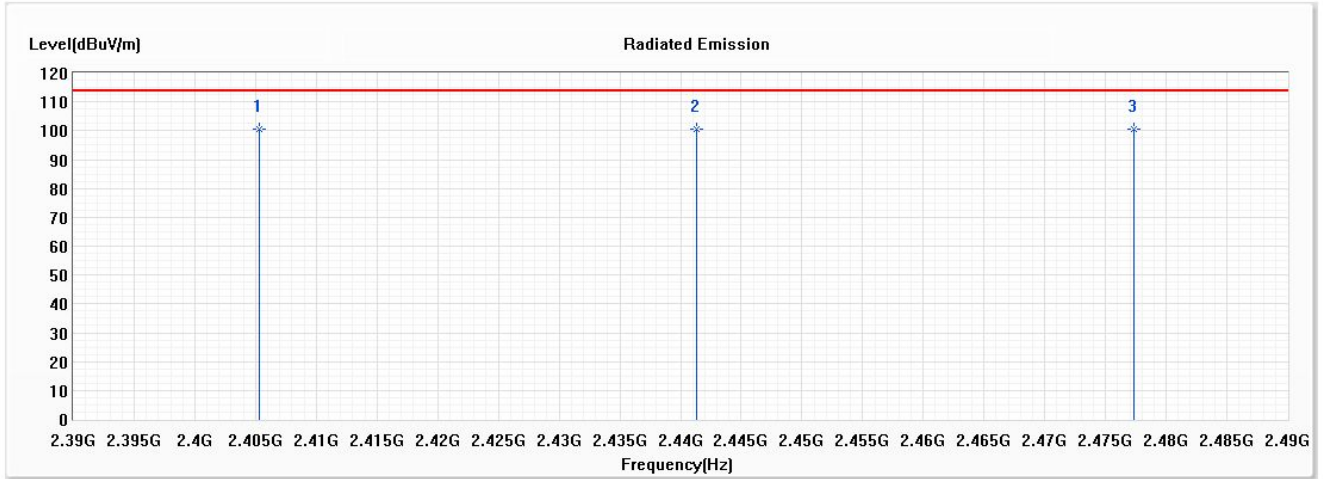
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	99.880	-34.067	65.813	-28.187	94.000
2441.350	99.550	-34.067	65.483	-28.517	94.000
2477.350	99.230	-34.067	65.163	-28.837	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 2)

Horizontal_Y-Axis



No	Frequency (MHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Reading Level (dBµV)	Correct Factor (dB)	Detector Type
1	2405.350	102.37	114.00	-11.63	90.68	11.69	PK
2	2441.350	102.37	114.00	-11.63	90.54	11.83	PK
* 3	2477.350	102.46	114.00	-11.54	90.48	11.98	PK

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.

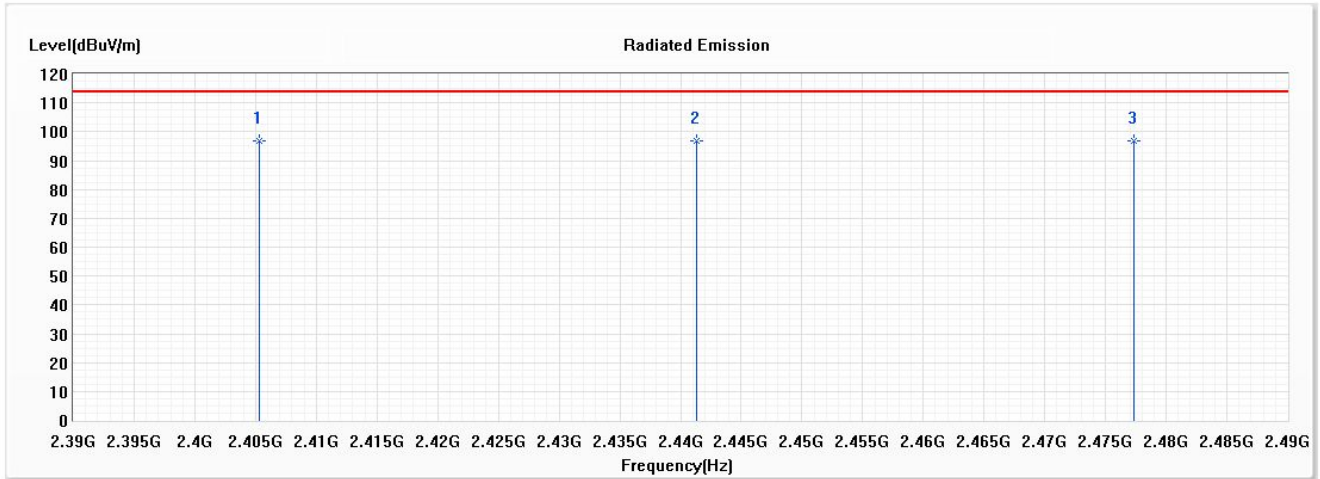
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)
2405.350	102.370	-34.067	68.303	-25.697	94.000
2441.350	102.370	-34.067	68.303	-25.697	94.000
2477.350	102.460	-34.067	68.393	-25.607	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 2)

Vertical_Y-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
* 1	2405.350	97.03	114.00	-16.97	85.34	11.69	PK
2	2441.350	96.77	114.00	-17.23	84.94	11.83	PK
3	2477.350	96.82	114.00	-17.18	84.84	11.98	PK

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.

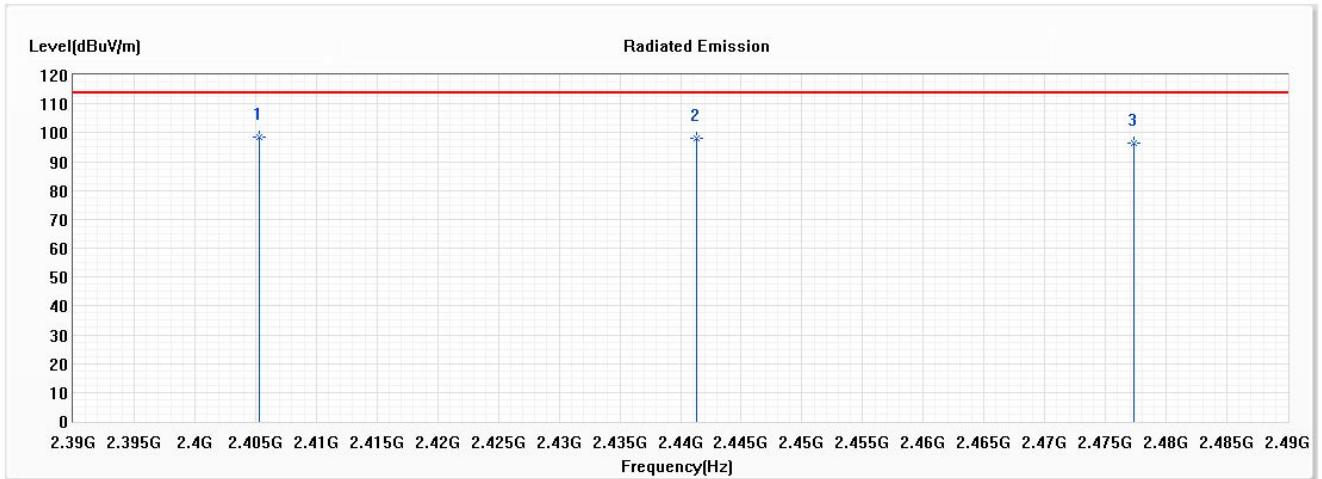
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	97.030	-34.067	62.963	-31.037	94.000
2441.350	96.770	-34.067	62.703	-31.297	94.000
2477.350	96.820	-34.067	62.753	-31.247	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 2)

Horizontal_Z-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
* 1	2405.350	98.49	114.00	-15.51	86.80	11.69	PK
2	2441.350	97.90	114.00	-16.10	86.07	11.83	PK
3	2477.350	96.41	114.00	-17.59	84.43	11.98	PK

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.

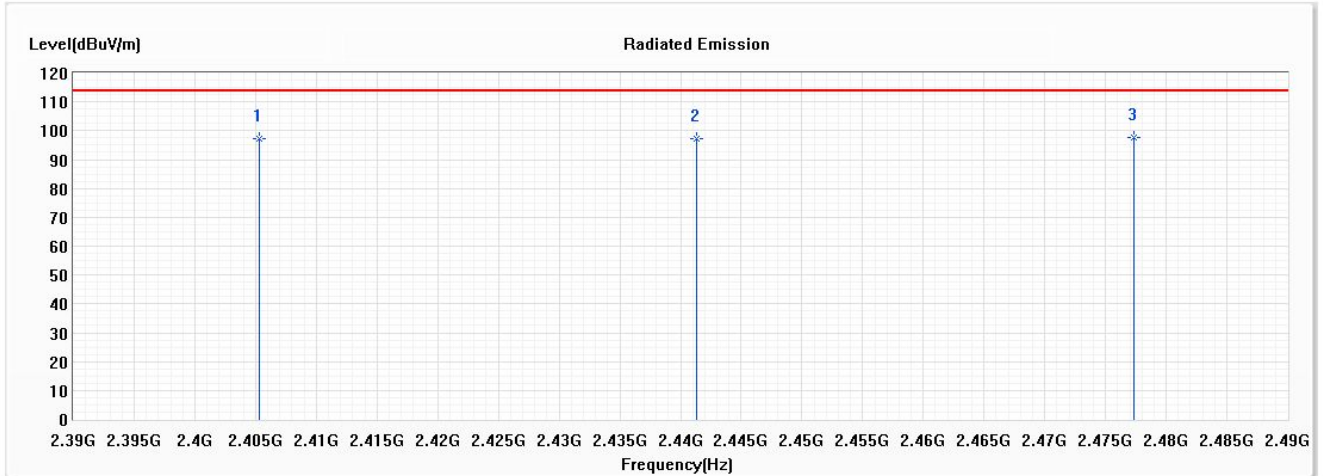
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	98.490	-34.067	64.423	-29.577	94.000
2441.350	97.900	-34.067	63.833	-30.167	94.000
2477.350	96.410	-34.067	62.343	-31.657	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Fundamental Radiated Emission
 Test Date : 2020/11/05
 Test Mode : Mode 1: Transmit (Antenna 2)

Vertical_Z-Axis



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2405.350	97.25	114.00	-16.75	85.56	11.69	PK
2	2441.350	97.44	114.00	-16.56	85.61	11.83	PK
* 3	2477.350	97.72	114.00	-16.28	85.74	11.98	PK

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.

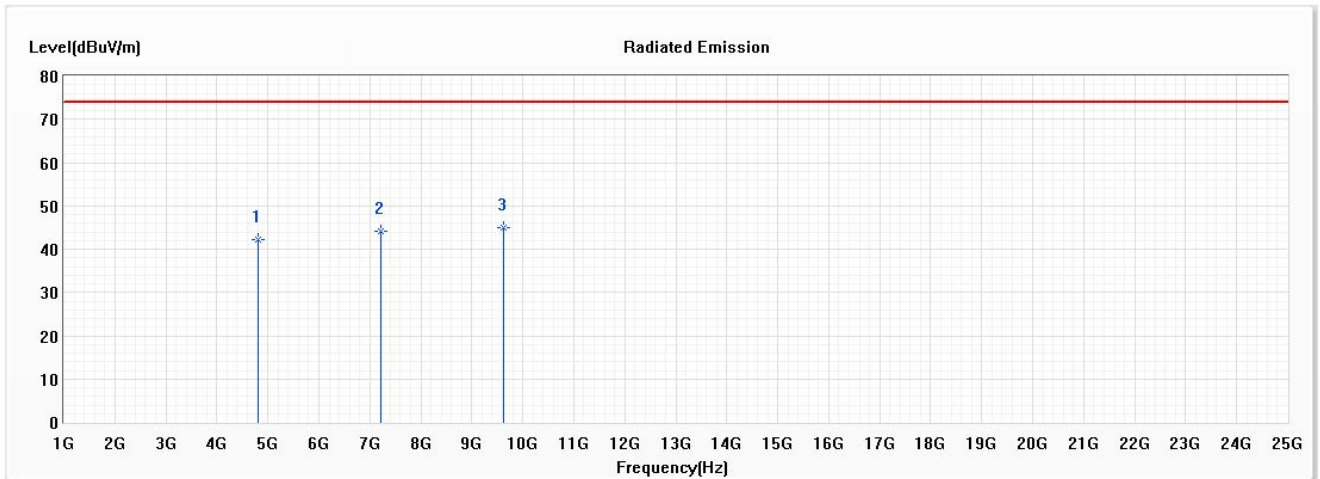
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
2405.350	97.250	-34.067	63.183	-30.817	94.000
2441.350	97.440	-34.067	63.373	-30.627	94.000
2477.350	97.720	-34.067	63.653	-30.347	94.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 1)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4810.700	42.17	74.00	-31.83	46.90	-4.73	PK
2	7216.050	44.27	74.00	-29.73	45.47	-1.20	PK
* 3	9621.400	44.83	74.00	-29.17	43.97	0.86	PK

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.

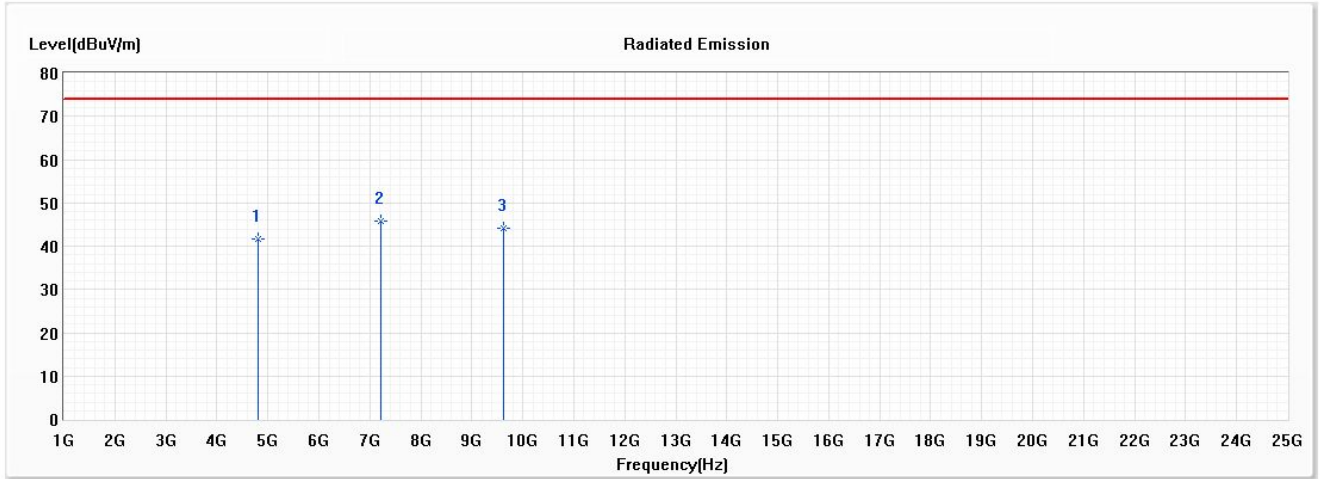
Frequency MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
--	--	--	--	--	74.000	54.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 1)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4810.700	41.55	74.00	-32.45	46.28	-4.73	PK
* 2	7216.050	45.80	74.00	-28.20	47.00	-1.20	PK
3	9621.400	44.19	74.00	-29.81	43.33	0.86	PK

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.

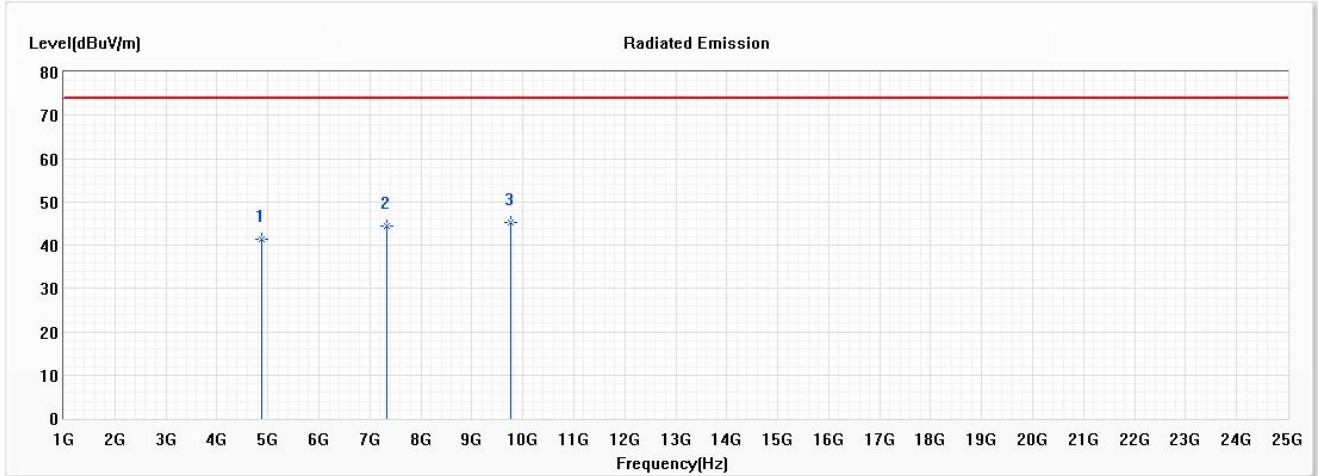
Frequency MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
Average Detector:						
--	--	--	--	--	74.000	54.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 1)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4882.700	41.37	74.00	-32.63	46.04	-4.67	PK
2	7324.050	44.39	74.00	-29.61	45.62	-1.23	PK
* 3	9765.400	45.24	74.00	-28.76	44.15	1.09	PK

Note:

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

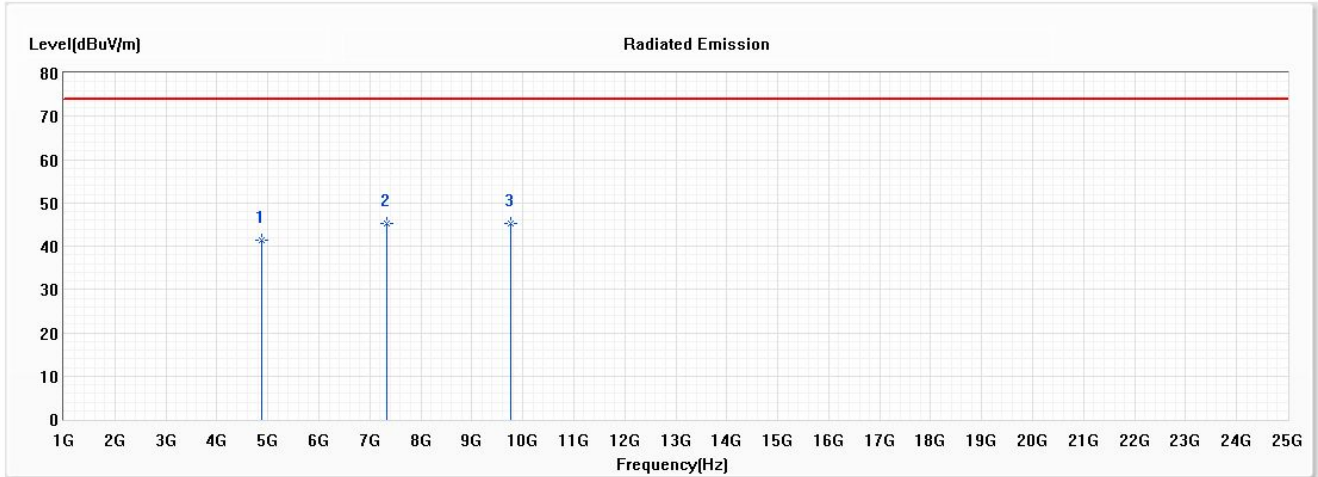
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)
--	--	--	--	--	74.000	54.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 1)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4882.700	41.41	74.00	-32.59	46.08	-4.67	PK
* 2	7324.050	45.24	74.00	-28.76	46.47	-1.23	PK
3	9765.400	45.20	74.00	-28.80	44.11	1.09	PK

Note:

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

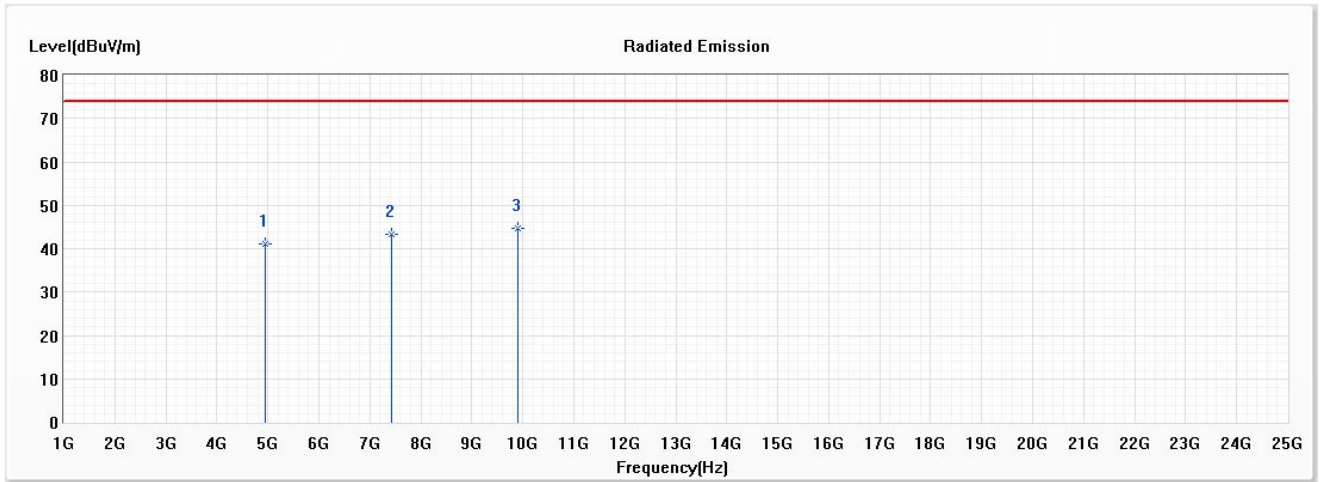
Frequency MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
--	--	--	--	--	74.000	54.000

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 1)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4954.700	41.22	74.00	-32.78	45.76	-4.54	PK
2	7432.050	43.29	74.00	-30.71	44.44	-1.15	PK
* 3	9909.400	44.70	74.00	-29.30	43.38	1.32	PK

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 MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
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Average Detector:

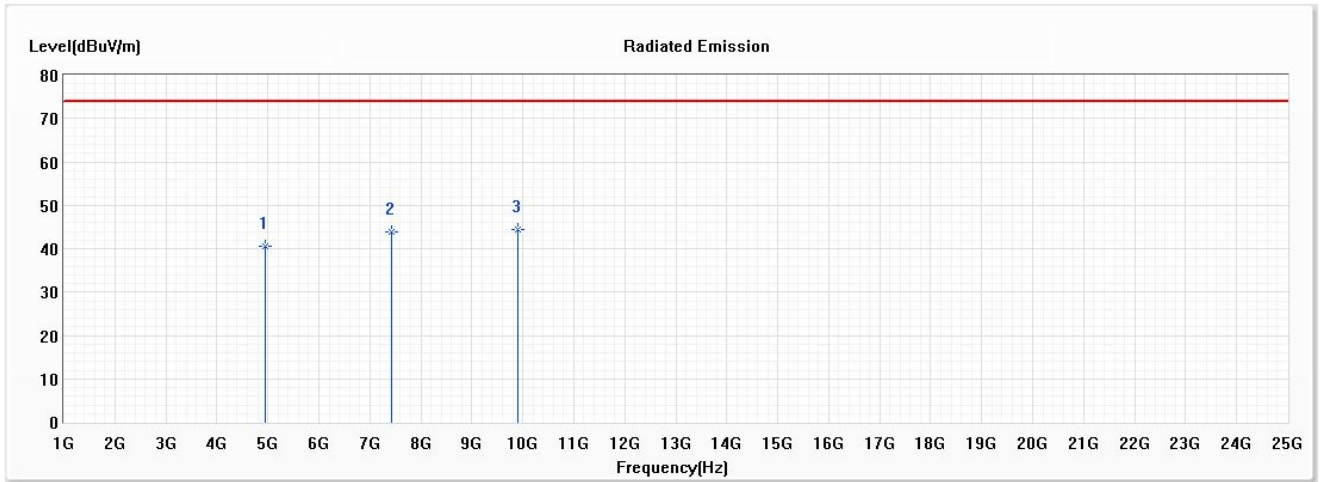
--	--	--	--	--	74.000	54.000
----	----	----	----	----	--------	--------

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 1)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4954.700	40.64	74.00	-33.36	45.18	-4.54	PK
2	7432.050	43.88	74.00	-30.12	45.03	-1.15	PK
* 3	9909.400	44.40	74.00	-29.60	43.08	1.32	PK

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 MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
---------------	-------------------------	----------------------	----------------------------	-----------	-------------------	----------------------

Average Detector:

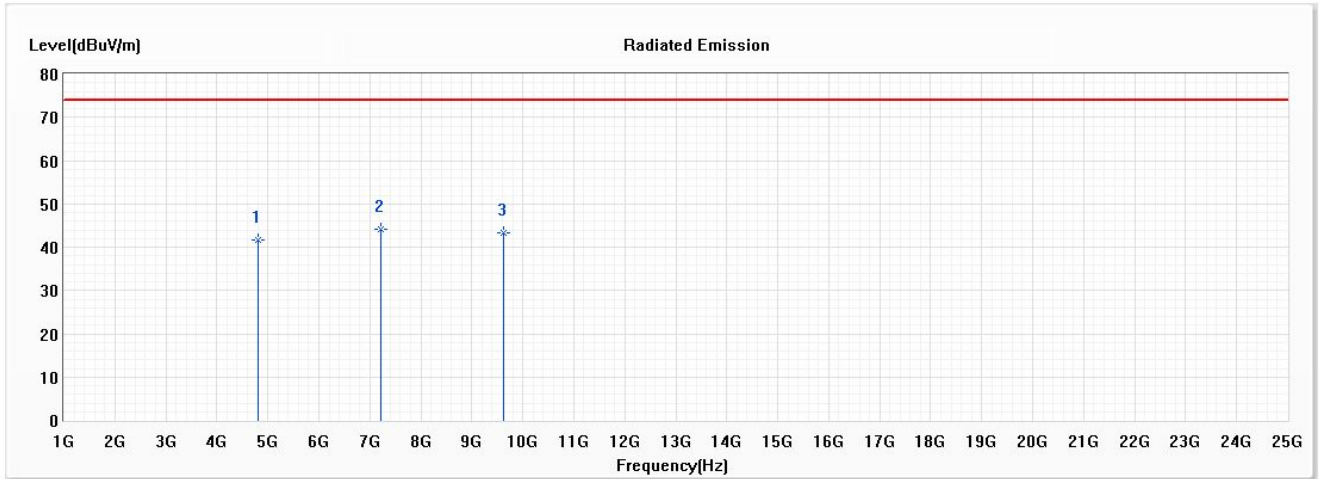
--	--	--	--	--	74.000	54.000
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Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 2)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4810.700	41.61	74.00	-32.39	46.34	-4.73	PK
* 2	7216.050	44.04	74.00	-29.96	45.24	-1.20	PK
3	9621.400	43.40	74.00	-30.60	42.54	0.86	PK

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 Measurement	Duty Cycle Factor	Average Measurement	Margin	Peak Limit	Average Limit
MHz	dBμV/m	dB	dBμV/m	dB	dBμV/m	dBμV/m

Average Detector:

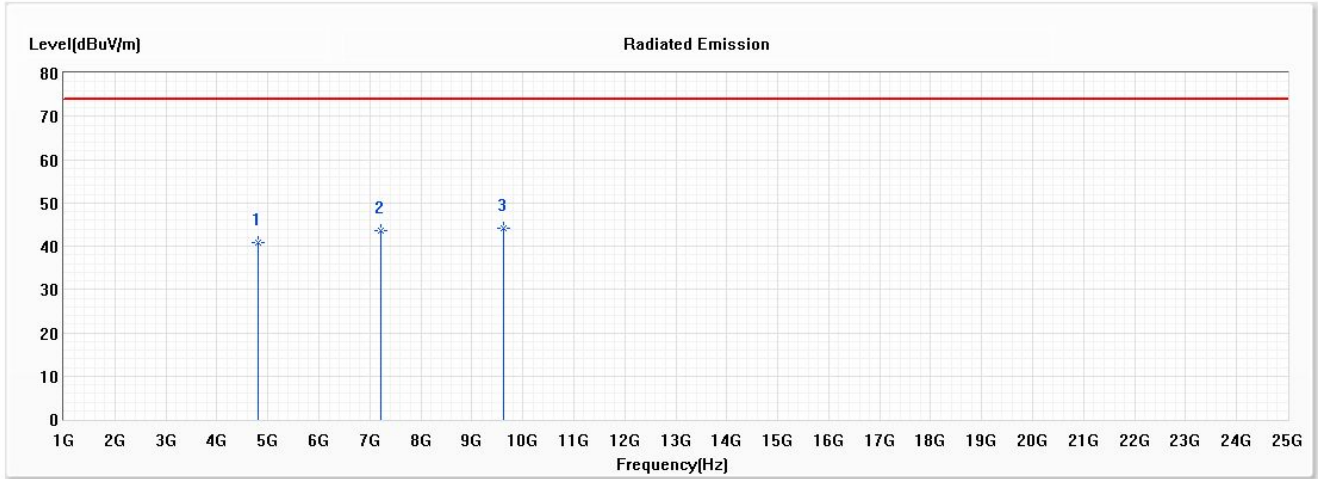
--	--	--	--	--	74.000	54.000
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Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 2)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4810.700	40.88	74.00	-33.12	45.61	-4.73	PK
2	7216.050	43.45	74.00	-30.55	44.65	-1.20	PK
* 3	9621.400	44.17	74.00	-29.83	43.31	0.86	PK

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 MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
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Average Detector:

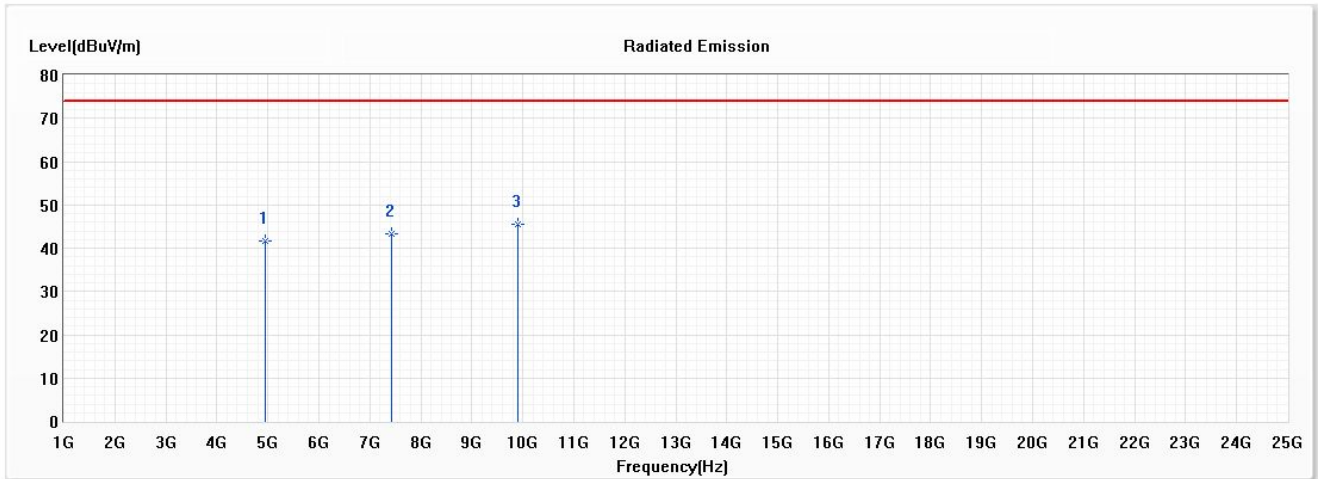
--	--	--	--	--	74.000	54.000
----	----	----	----	----	--------	--------

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 2)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4882.700	41.53	74.00	-32.47	46.20	-4.67	PK
2	7324.050	43.23	74.00	-30.77	44.46	-1.23	PK
* 3	9765.400	45.21	74.00	-28.79	44.12	1.09	PK

Note:

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

Frequency MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
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Average Detector:

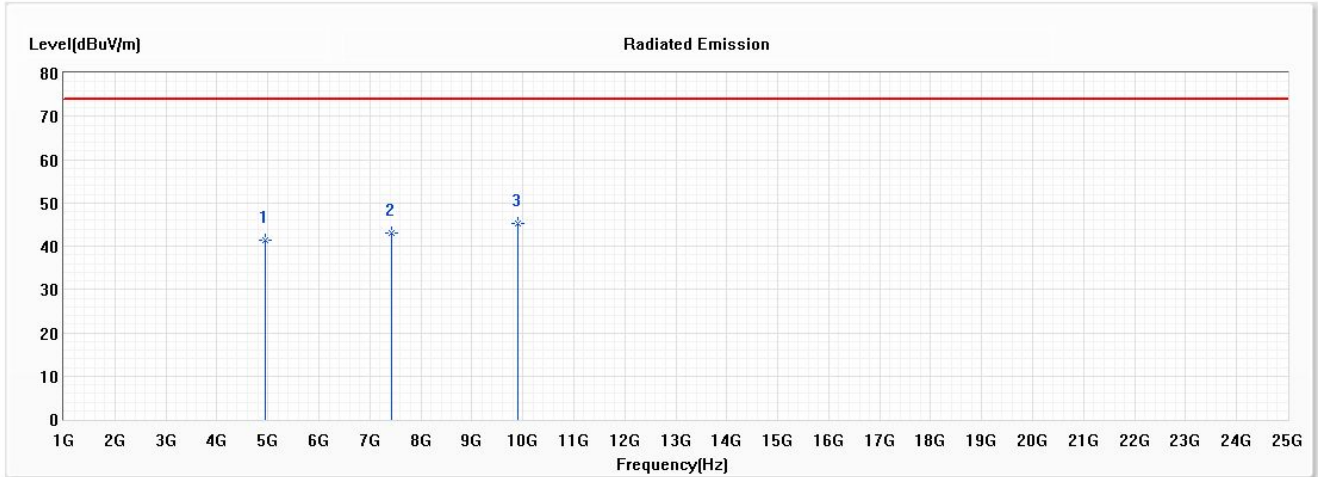
--	--	--	--	--	74.000	54.000
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Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 2)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4882.700	41.28	74.00	-32.72	45.95	-4.67	PK
2	7324.050	42.97	74.00	-31.03	44.20	-1.23	PK
* 3	9765.400	44.98	74.00	-29.02	43.89	1.09	PK

Note:

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

Frequency MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
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Average Detector:

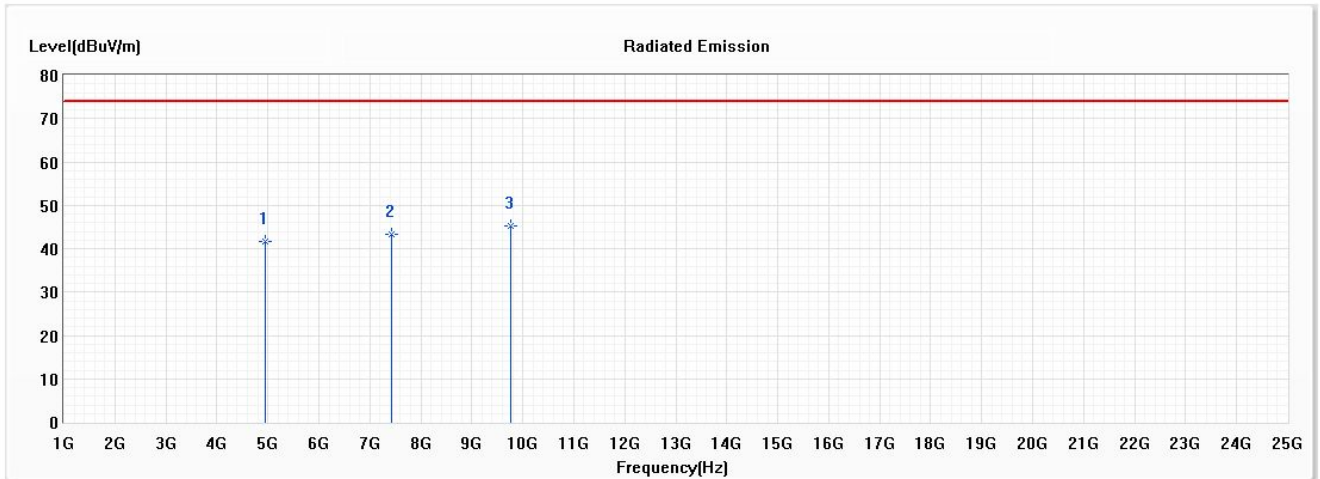
--	--	--	--	--	74.000	54.000
----	----	----	----	----	--------	--------

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 2)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4954.700	41.66	74.00	-32.34	46.20	-4.54	PK
2	7432.050	43.31	74.00	-30.69	44.46	-1.15	PK
* 3	9909.400	45.44	74.00	-28.56	44.12	1.32	PK

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 MHz	Peak Measurement dBμV/m	Duty Cycle Factor dB	Average Measurement dBμV/m	Margin dB	Peak Limit dBμV/m	Average Limit dBμV/m
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Average Detector:

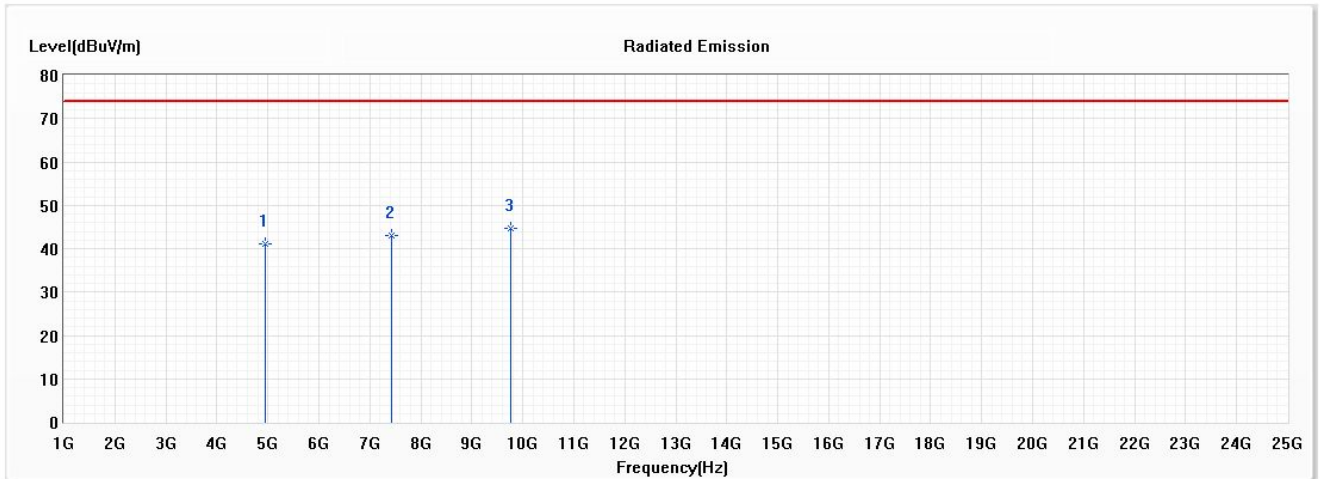
--	--	--	--	--	74.000	54.000
----	----	----	----	----	--------	--------

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2020/11/06
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 2)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	4954.700	41.05	74.00	-32.95	45.59	-4.54	PK
2	7432.050	42.91	74.00	-31.09	44.06	-1.15	PK
* 3	9909.400	44.87	74.00	-29.13	43.55	1.32	PK

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 (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)
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Average Detector:

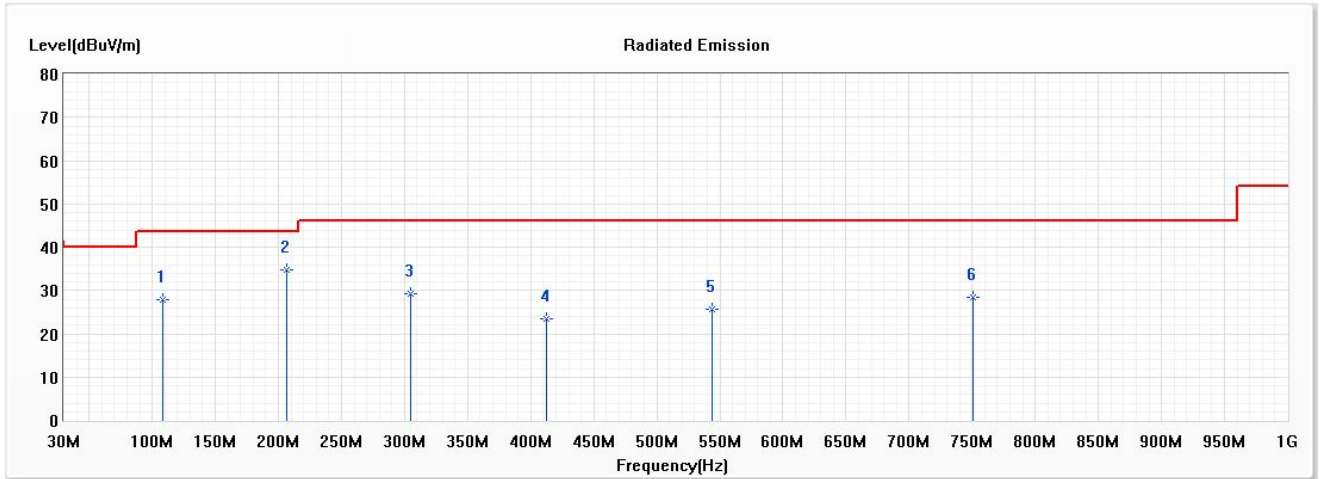
--	--	--	--	--	74.000	54.000
----	----	----	----	----	--------	--------

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : General Radiated Emission Data
 Test Date : 2020/11/03
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 1)

Horizontal



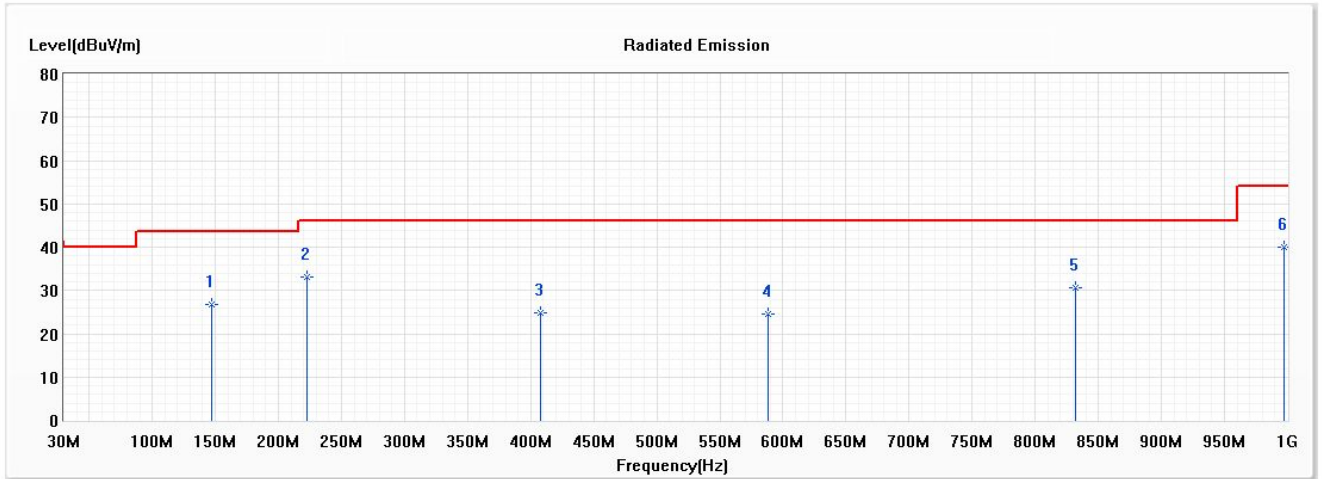
No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	108.570	27.80	43.50	-15.70	41.90	-14.10	QP
* 2	206.540	34.64	43.50	-8.86	47.34	-12.70	QP
3	304.510	29.20	46.00	-16.80	38.55	-9.35	QP
4	412.180	23.48	46.00	-22.52	30.46	-6.98	QP
5	544.100	25.60	46.00	-20.40	29.81	-4.21	QP
6	750.710	28.28	46.00	-17.72	29.12	-0.84	QP

Note:

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 H3 Wireless gaming headset
 Test Item : General Radiated Emission Data
 Test Date : 2020/11/03
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 1)

Vertical



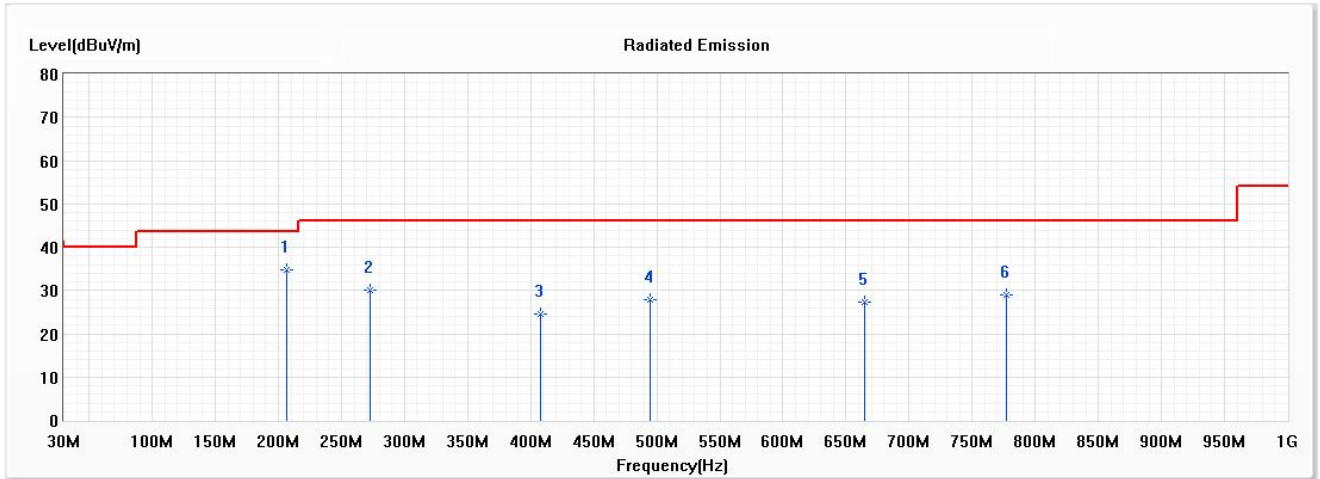
No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	147.370	26.75	43.50	-16.75	37.50	-10.75	QP
* 2	223.030	33.20	46.00	-12.80	45.57	-12.37	QP
3	407.330	24.90	46.00	-21.10	31.98	-7.08	QP
4	587.750	24.49	46.00	-21.51	27.80	-3.31	QP
5	832.190	30.73	46.00	-15.27	30.78	-0.05	QP
6	997.090	40.07	54.00	-13.93	38.06	2.01	QP

Note:

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 H3 Wireless gaming headset
 Test Item : General Radiated Emission Data
 Test Date : 2020/11/03
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 2)

Horizontal



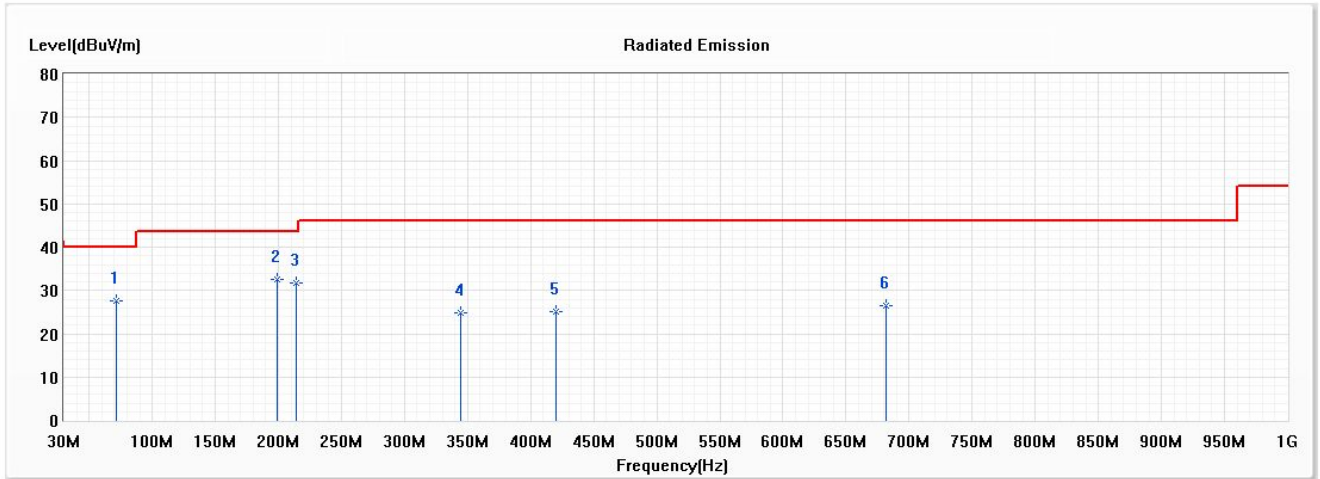
No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
* 1	206.540	34.64	43.50	-8.86	47.34	-12.70	QP
2	272.500	29.96	46.00	-16.04	40.18	-10.22	QP
3	407.330	24.58	46.00	-21.42	31.66	-7.08	QP
4	494.630	27.96	46.00	-18.04	32.99	-5.03	QP
5	664.380	27.36	46.00	-18.64	29.69	-2.33	QP
6	776.900	28.92	46.00	-17.08	29.50	-0.58	QP

Note:

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 H3 Wireless gaming headset
 Test Item : General Radiated Emission Data
 Test Date : 2020/11/03
 Test Mode : Mode 1: Transmit (2441.35MHz) (Antenna 2)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	71.710	27.56	40.00	-12.44	41.00	-13.44	QP
* 2	198.780	32.46	43.50	-11.04	45.02	-12.56	QP
3	214.300	31.70	43.50	-11.80	44.22	-12.52	QP
4	344.280	24.81	46.00	-21.19	33.15	-8.34	QP
5	419.940	25.14	46.00	-20.86	31.91	-6.77	QP
6	681.840	26.53	46.00	-19.47	28.49	-1.96	QP

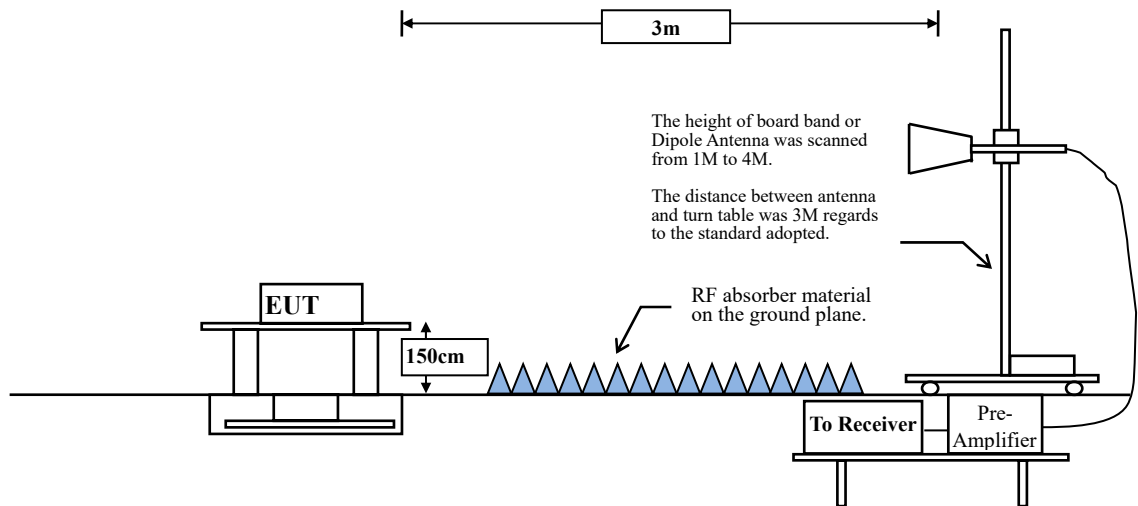
Note:

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 MHz	Field strength (microvolts/meter)	Measurement distance (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 (dBμV /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.

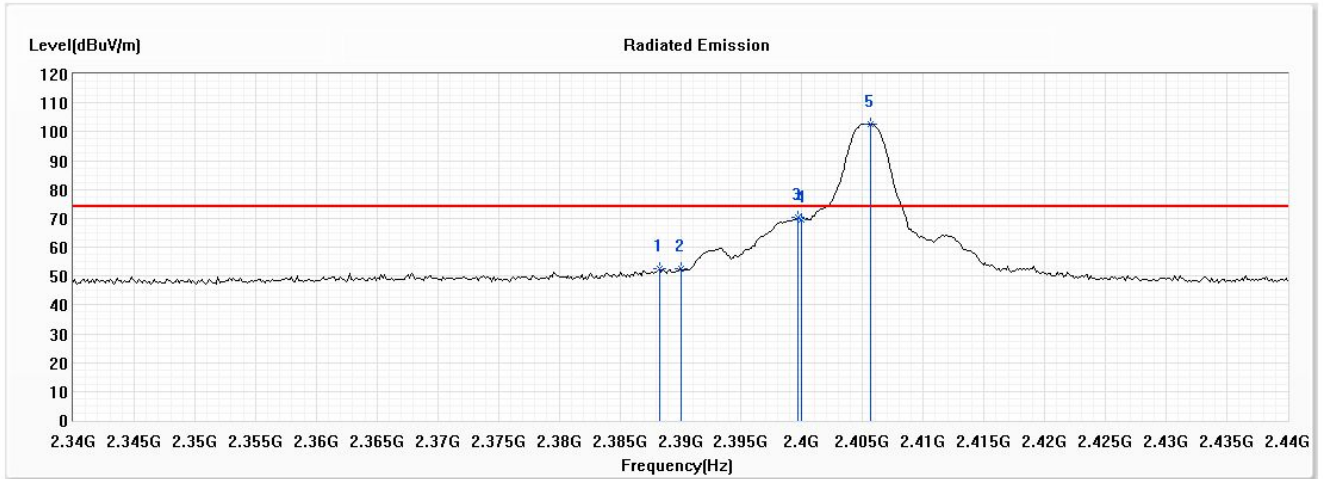
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated measurement.

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 H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 1)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2388.261	52.52	74.00	-21.48	39.07	13.45	PK
2	2390.000	52.45	74.00	-21.55	38.99	13.46	PK
3	2399.710	70.14	74.00	-3.86	56.65	13.49	PK
4	2400.000	69.67	74.00	-4.33	56.18	13.49	PK
5	2405.652	102.79	--	--	89.28	13.51	PK

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.

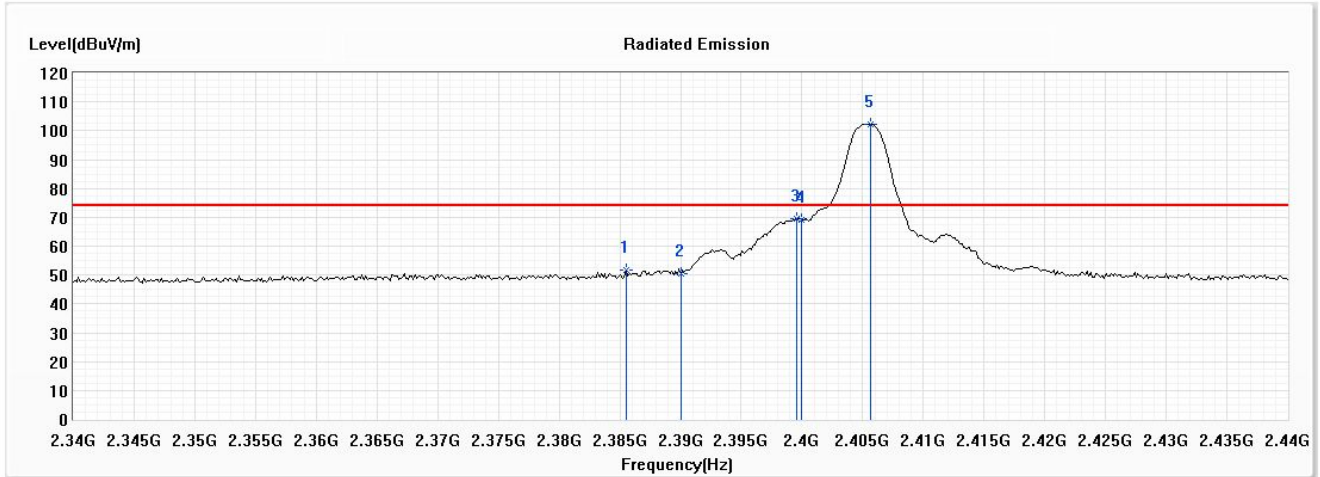
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
2388.261	52.520	-34.067	18.453	-35.547	54.000	Pass
2390.000	52.450	-34.067	18.383	-35.617	54.000	Pass
2399.710	70.140	-34.067	36.073	-17.927	54.000	Pass
2400.000	69.670	-34.067	35.603	-18.397	54.000	Pass
2405.652	102.790	-34.067	68.723	--	--	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 1)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2385.507	51.91	74.00	-22.09	38.46	13.45	PK
2	2390.000	50.56	74.00	-23.44	37.10	13.46	PK
3	2399.565	69.47	74.00	-4.53	55.98	13.49	PK
4	2400.000	69.15	74.00	-4.85	55.66	13.49	PK
5	2405.652	102.34	--	--	88.83	13.51	PK

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.

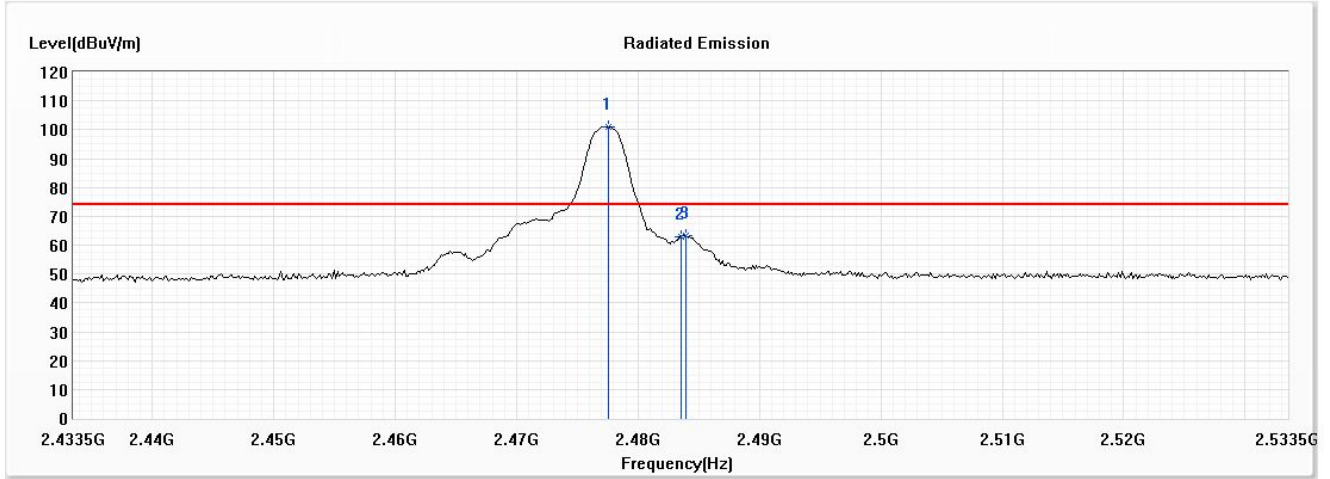
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
2385.507	51.910	-34.067	17.843	-36.157	54.000	Pass
2390.000	50.560	-34.067	16.493	-37.507	54.000	Pass
2399.565	69.470	-34.067	35.403	-18.597	54.000	Pass
2400.000	69.150	-34.067	35.083	-18.917	54.000	Pass
2405.652	102.340	-34.067	68.273	--	--	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 1)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2477.558	101.10	--	--	87.21	13.89	PK
2	2483.500	62.84	74.00	-11.16	48.92	13.92	PK
3	2483.935	63.48	74.00	-10.52	49.55	13.93	PK

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.

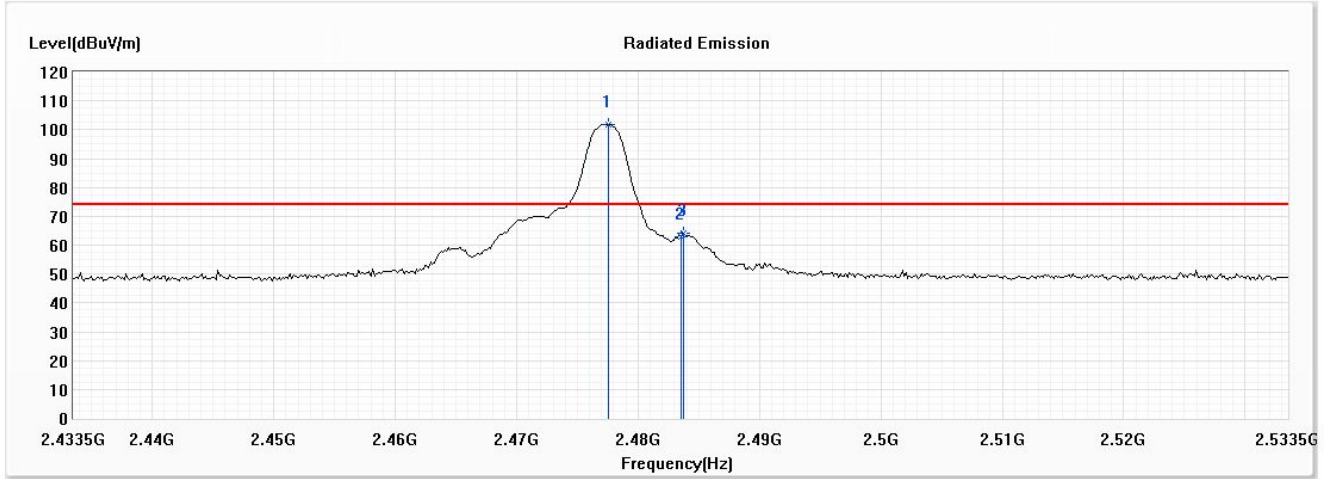
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
2477.558	101.100	-34.067	67.033	--	--	Pass
2483.500	62.840	-34.067	28.773	-25.227	54.000	Pass
2483.935	63.480	-34.067	29.413	-24.587	54.000	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 1)

Vertical



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2477.558	101.91	--	--	88.02	13.89	PK
2	2483.500	63.05	74.00	-10.95	49.13	13.92	PK
3	2483.790	64.12	74.00	-9.88	50.19	13.93	PK

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.

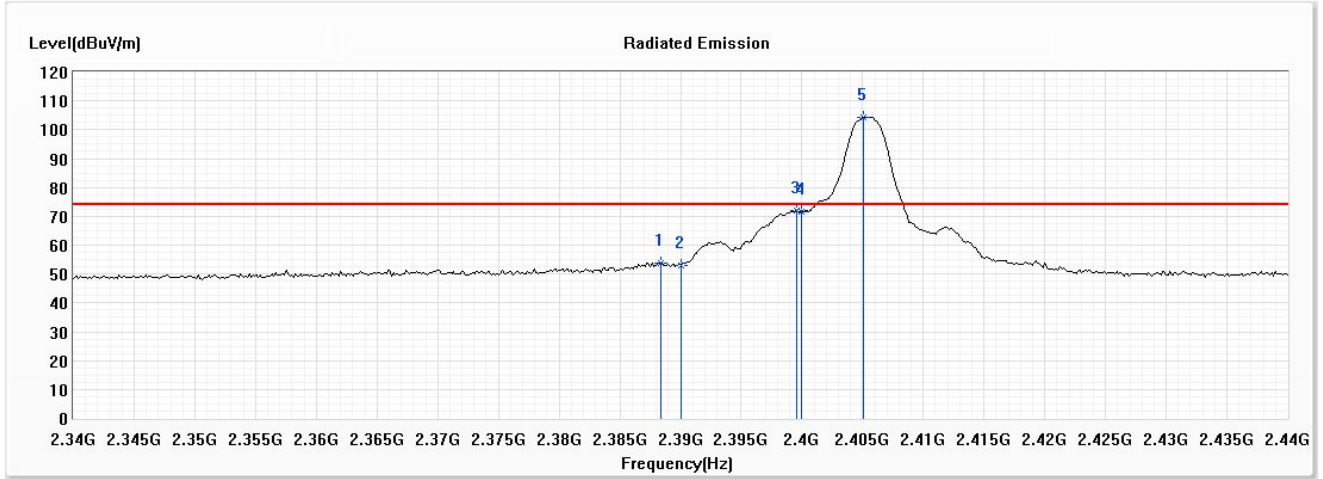
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
2477.558	101.910	-34.067	67.843	--	--	Pass
2483.500	63.050	-34.067	28.983	-25.017	54.000	Pass
2483.790	64.120	-34.067	30.053	-23.947	54.000	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 2)

Horizontal



No	Frequency (MHz)	Emission Level (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Reading Level (dBµV)	Correct Factor (dB)	Detector Type
1	2388.406	53.79	74.00	-20.21	40.34	13.45	PK
2	2390.000	52.97	74.00	-21.03	39.51	13.46	PK
3	2399.565	72.11	74.00	-1.89	58.62	13.49	PK
4	2400.000	71.58	74.00	-2.42	58.09	13.49	PK
5	2405.072	102.29	--	--	88.78	13.51	PK

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.

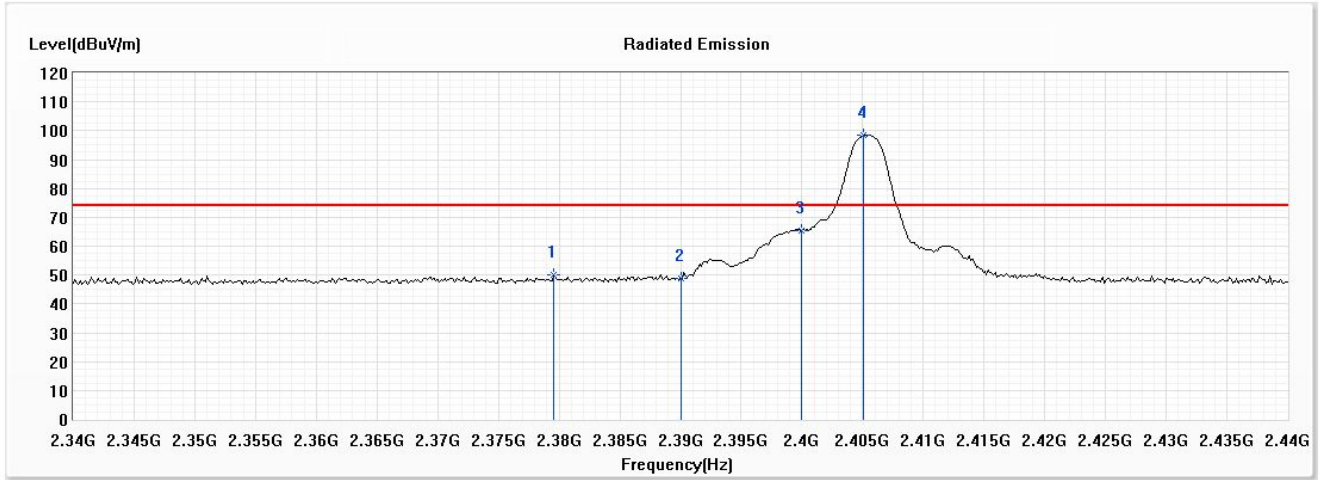
Frequency (MHz)	Peak Measurement (dBµV/m)	Duty Cycle Factor (dB)	Average Measurement (dBµV/m)	Margin (dB)	Average Limit (dBµV/m)	Result
2388.406	53.790	-34.067	19.723	-34.277	54.000	Pass
2390.000	52.970	-34.067	18.903	-35.097	54.000	Pass
2399.565	72.110	-34.067	38.043	-15.957	54.000	Pass
2400.000	71.580	-34.067	37.513	-16.487	54.000	Pass
2405.072	102.290	-34.067	68.223	--	--	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2405.35MHz) (Antenna 2)

Vertical



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1	2379.565	50.15	74.00	-23.85	36.71	13.44	PK
2	2390.000	48.75	74.00	-25.25	35.29	13.46	PK
3	2400.000	65.33	74.00	-8.67	51.84	13.49	PK
4	2405.072	98.33	--	--	84.82	13.51	PK

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.

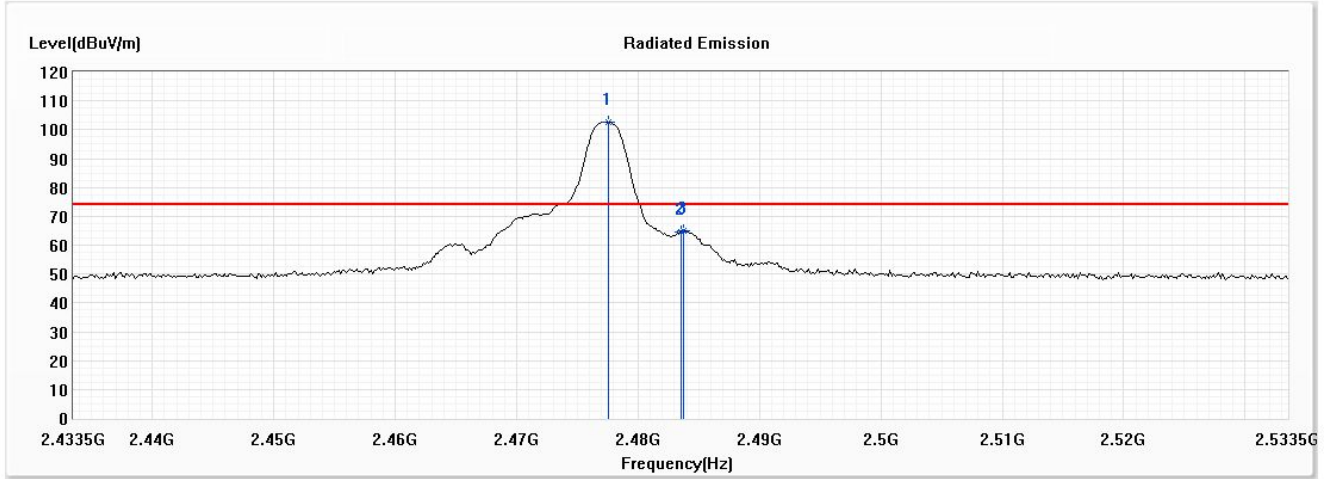
Frequency (MHz)	Peak Measurement (dBuV/m)	Duty Cycle Factor (dB)	Average Measurement (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Result
2379.565	50.150	-34.067	16.083	-37.917	54.000	Pass
2390.000	48.750	-34.067	14.683	-39.317	54.000	Pass
2400.000	65.330	-34.067	31.263	-22.737	54.000	Pass
2405.072	98.330	-34.067	64.263	--	--	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 2)

Horizontal



No	Frequency (MHz)	Emission Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Reading Level (dBμV)	Correct Factor (dB)	Detector Type
1	2477.558	102.82	--	--	88.93	13.89	PK
2	2483.500	64.50	74.00	-9.50	50.58	13.92	PK
3	2483.790	65.08	74.00	-8.92	51.15	13.93	PK

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.

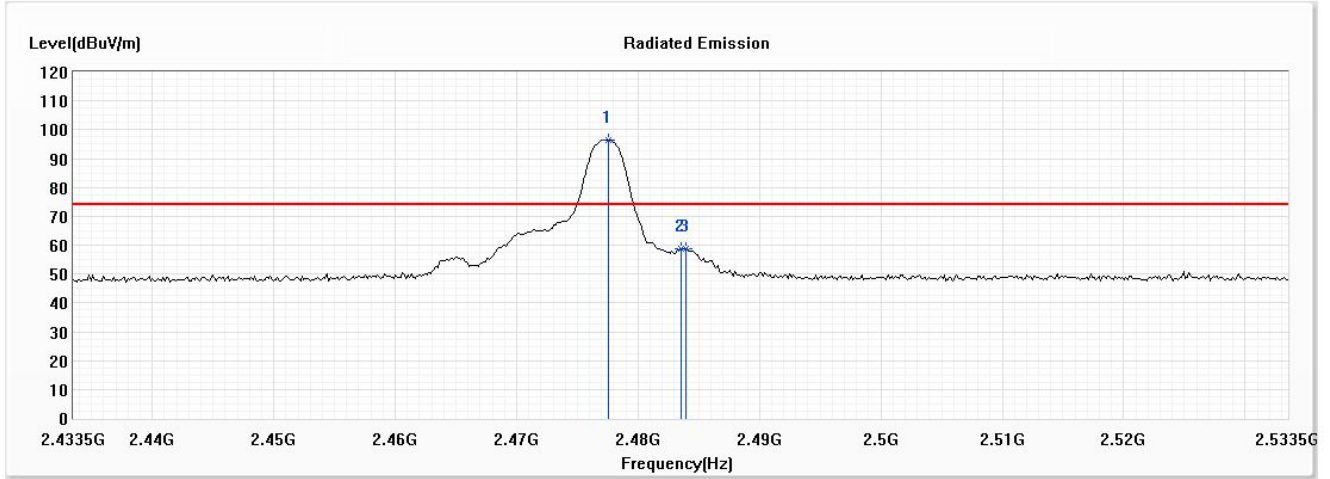
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
2477.558	102.820	-34.067	68.753	--	--	Pass
2483.500	64.500	-34.067	30.433	-23.567	54.000	Pass
2483.790	65.080	-34.067	31.013	-22.987	54.000	Pass

Note:

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

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Band Edge Data
 Test Date : 2020/10/19
 Test Mode : Mode 1: Transmit (2477.35MHz) (Antenna 2)

Vertical



No	Frequency (MHz)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Reading Level (dB μ V)	Correct Factor (dB)	Detector Type
1	2477.558	96.52	--	--	82.63	13.89	PK
2	2483.500	58.69	74.00	-15.31	44.77	13.92	PK
3	2483.935	58.74	74.00	-15.26	44.81	13.93	PK

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.

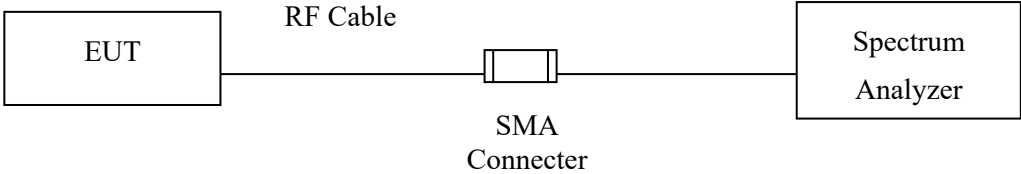
Frequency (MHz)	Peak Measurement (dB μ V/m)	Duty Cycle Factor (dB)	Average Measurement (dB μ V/m)	Margin (dB)	Average Limit (dB μ V/m)	Result
2477.558	96.520	-34.067	62.453	--	--	Pass
2483.500	58.690	-34.067	24.623	-29.377	54.000	Pass
2483.935	58.740	-34.067	24.673	-29.327	54.000	Pass

Note:

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

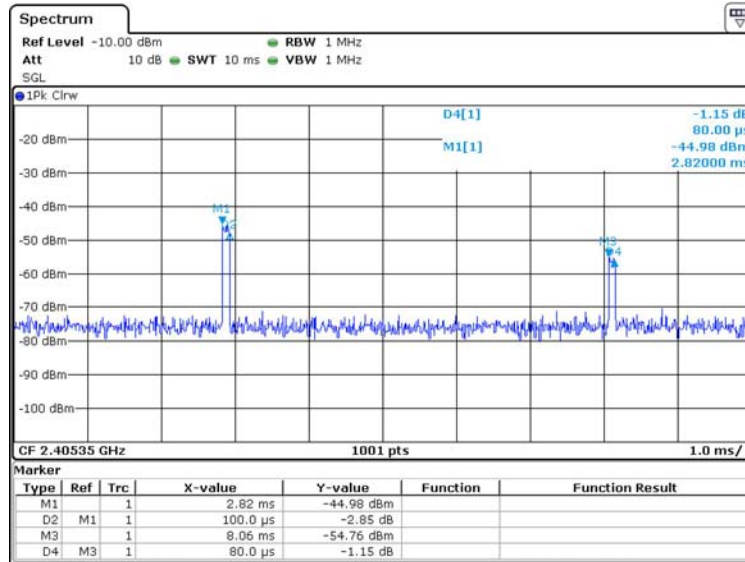
5. Duty Cycle

5.1. Test Setup

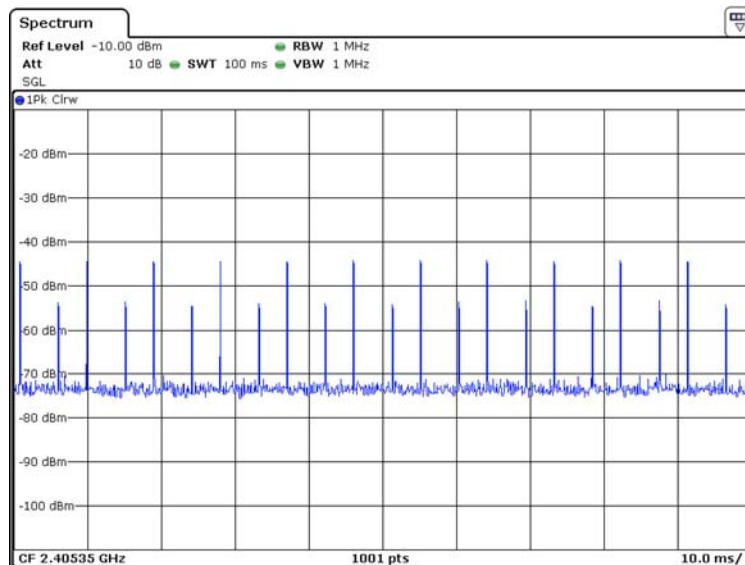


5.2. Test Result of Duty Cycle

Product : TUF Gaming H3 Wireless gaming headset
 Test Item : Duty Cycle Data
 Test Mode : Mode 2: Normal mode



Date: 5 NOV 2020 19:28:41



Date: 5 NOV 2020 19:27:45

Time on of 100ms= 180us*11= 1.98ms

Duty Cycle=1.98ms / 100ms= 0.0198

Duty Cycle correction factor= 20 LOG 0.0198= -34.067 dB

Duty Cycle correction factor	-34.067 dB
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6. EMI Reduction Method During Compliance Testing

No modification was made during testing.