

FCC Test Report

Product Name	ROG STRIX GO 2.4 Dongle
Model No.	ROG STRIX GO 2.4 Dongle
FCC ID	BJM-ROGSTRIXGD

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

Date of Receipt	Aug. 06, 2019
Issued Date	Sep. 11, 2019
Report No.	1980086R-RFUSP15V00
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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Test Report

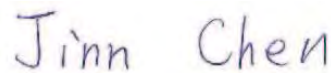
Issued Date: Sep. 11, 2019

Report No.: 1980086R-RFUSP15V00



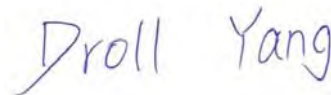
Product Name	ROG STRIX GO 2.4 Dongle
Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3 ,Taipei 10451 ,Taiwan
Manufacturer	Tatung Company
Model No.	ROG STRIX GO 2.4 Dongle
FCC ID	BJM-ROGSTRIXGD
EUT Rated Voltage	DC 5V (Power by USB)
EUT Test Voltage	DC 5V (Power by USB)
Trade Name	ASUS
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2018 ANSI C63.4: 2014, ANSI C63.10: 2013
Test Result	Complied

Documented By :



(Senior Adm. Specialist / Jinn Chen)

Tested By :



(Assistant Engineer / Droll Yang)

Approved By :



(Director / Vincent Lin)

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Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs

1. GENERAL INFORMATION

1.1. EUT Description

Product Name	ROG STRIX GO 2.4 Dongle
Trade Name	ASUS
Model No.	ROG STRIX GO 2.4 Dongle
FCC ID	BJM-ROGSTRIXGD
Frequency Range	2409.35~2477.35MHz
Channel Number	35CH
Type of Modulation	Pi/4 DQPSK
Antenna Type	Chip Antenna
Channel Control	Refer to the table "Antenna List"
Antenna Gain	Auto

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Advanced Ceramic X Corp.	QEC-1907094-C	Chip Antenna	0.1dBi for 2.4GHz

Note: The antenna of EUT is conform to FCC 15.203

Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 1:	2409.35 MHz	Channel 11:	2429.35 MHz	Channel 21:	2449.35 MHz	Channel 31:	2469.35 MHz
Channel 2:	2411.35 MHz	Channel 12:	2431.35 MHz	Channel 22:	2451.35 MHz	Channel 32:	2471.35 MHz
Channel 3:	2413.35 MHz	Channel 13:	2433.35 MHz	Channel 23:	2453.35 MHz	Channel 33:	2473.35 MHz
Channel 4:	2415.35 MHz	Channel 14:	2435.35 MHz	Channel 24:	2455.35 MHz	Channel 34:	2475.35 MHz
Channel 5:	2417.35 MHz	Channel 15:	2437.35 MHz	Channel 25:	2457.35 MHz	Channel 35:	2477.35 MHz
Channel 6:	2419.35 MHz	Channel 16:	2439.35 MHz	Channel 26:	2459.35 MHz		
Channel 7:	2421.35 MHz	Channel 17:	2441.35 MHz	Channel 27:	2461.35 MHz		
Channel 8:	2423.35 MHz	Channel 18:	2443.35 MHz	Channel 28:	2463.35 MHz		
Channel 9:	2425.35 MHz	Channel 19:	2445.35 MHz	Channel 29:	2465.35 MHz		
Channel 10:	2427.35 MHz	Channel 20:	2447.35 MHz	Channel 30:	2467.35 MHz		

Note:

1. The EUT is a ROG STRIX GO 2.4 Dongle with a built-in 2.4GHz wireless transceiver.
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.
4. 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
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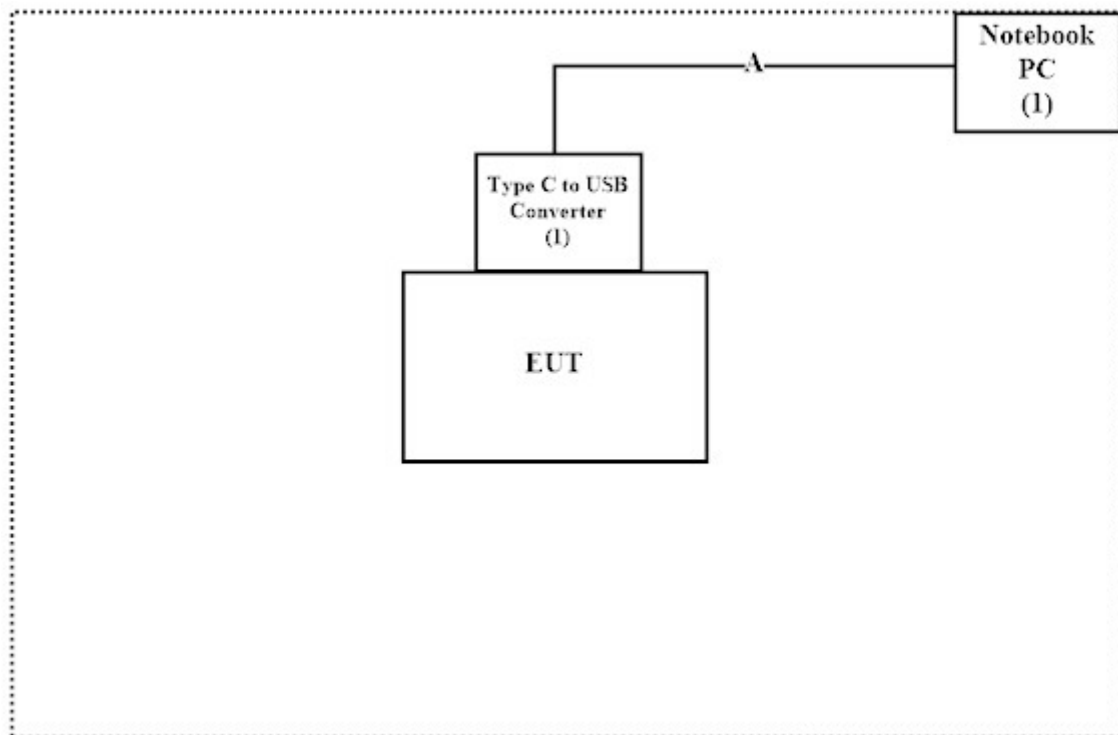
1.3. Tested System Details

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 Type C to USB Converter	N/A	N/A	N/A	N/A
2 Notebook PC	DELL	P62G	229FJC2	N/A

Signal Cable Type	Signal cable Description
A USB Cable	Shielded, 1.8m

1.4. Configuration of Test System



1.5. EUT Exercise Software

- (1) Setup the EUT as shown in Section 1.4.
- (2) Execute “Avnera_Continue_Power V2018.5.18.1” program on the Notebook.
- (3) Configure the test mode and the test channel
- (4) Start the continuous transmit.
- (5) Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

USA : FCC Registration Number: TW0023

Canada : IC Registration Number: 4075A

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
Fax number : 866-2-2602-3286
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

1.7. 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	2019.05.13	2020.05.12
X	Two-Line V-Network	R&S	ENV216	101306	2019.03.11	2020.03.10
X	Two-Line V-Network	R&S	ENV216	101307	2019.04.03	2020.04.02
X	Coaxial Cable	Quietek	RG400_BNC	RF001	2019.05.24	2020.05.23

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 : QuieTek EMI System V2.1.113

For Conducted measurements /ASR2

	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Spectrum Analyzer	R&S	FSV30	103466	2018.12.22	2019.12.21
	Power Meter	Anritsu	ML2496A	1548003	2018.12.19	2019.12.18
	Power Sensor	Anritsu	MA2411B	1531024	2018.12.19	2019.12.18
	Power Sensor	Anritsu	MA2411B	1531025	2018.12.19	2019.12.18
	Bluetooth Tester	R&S	CBT	101238	2019.01.21	2020.01.20

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

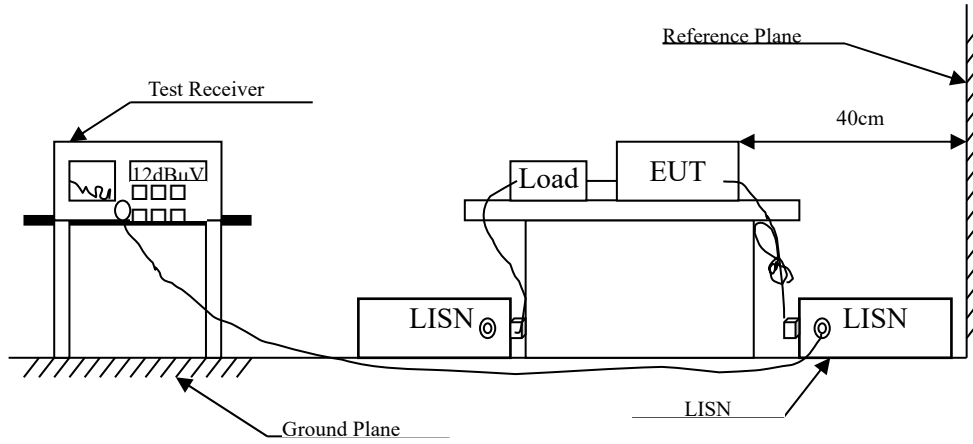
	Equipment	Manufacturer	Model No.	Serial No.	Cali. Data	Due. Data
X	Loop Antenna	AMETEK	HLA6121	49611	2019.02.22	2020.02.21
X	Bi-Log Antenna	SCHWARZBECK	VULB9168	9168-674	2019.04.23	2020.04.22
X	Horn Antenna	ETS-Lindgren	3117	00203800	2018.12.11	2019.12.10
X	Horn Antenna	Com-Power	AH-840	101087	2019.05.30	2020.05.29
X	Pre-Amplifier	EMCI	EMC001330	980316	2019.06.14	2020.06.13
X	Pre-Amplifier	EMCI	EMC051835SE	980311	2019.06.13	2020.06.12
X	Pre-Amplifier	EMCI	EMC05820SE	980310	2019.06.24	2020.06.23
X	Pre-Amplifier	EMCI	EMC184045SE	980314	2019.05.28	2020.05.27
X	Filter	MICRO TRONICS	BRM50702	G249	2019.08.19	2020.08.18
	Filter	MICRO TRONICS	BRM50716	G187	2019.08.19	2020.08.18
X	EMI Test Receiver	R&S	ESR7	101602	2018.12.17	2019.12.16
X	Spectrum Analyzer	R&S	FSV40	101148	2019.02.20	2020.02.19
X	Coaxial Cable	SUHNER	SUCOFLEX 106	RF002	2019.05.25	2020.05.24
X	Mircoflex Cable	HUBER SUHNER	SUCOFLEX 102	MY3381/2	2019.05.28	2020.05.27

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 : QuieTek EMI System V2.1.113

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.

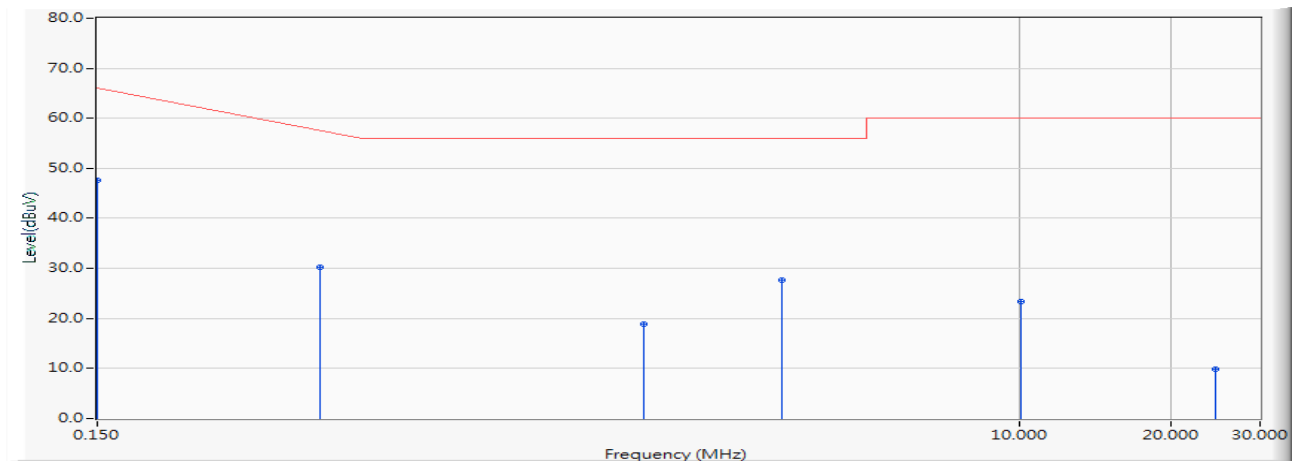
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.4. Uncertainty

± 2.35 dB

2.5. Test Result of Conducted Emission

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (2443.35MHz)

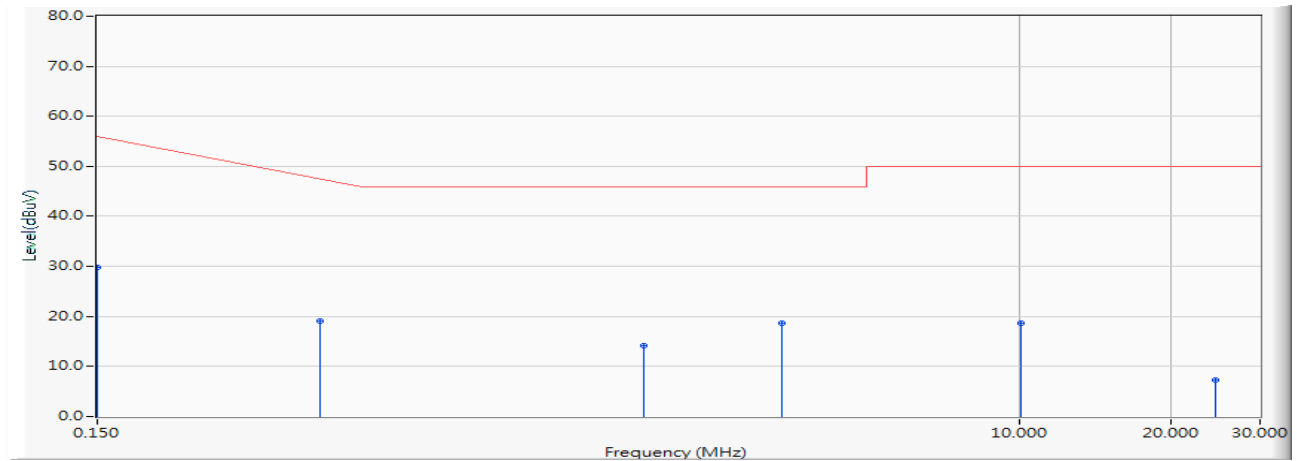


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.640	37.877	47.517	-18.483	66.000	QUASIPeAK
2		0.413	9.648	20.698	30.346	-28.140	58.486	QUASIPeAK
3		1.810	9.700	9.083	18.783	-37.217	56.000	QUASIPeAK
4		3.404	9.740	17.875	27.615	-28.385	56.000	QUASIPeAK
5		10.088	9.880	13.509	23.389	-36.611	60.000	QUASIPeAK
6		24.513	9.960	-0.027	9.933	-50.067	60.000	QUASIPeAK

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 : ROG STRIX GO 2.4 Dongle
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (2443.35MHz)

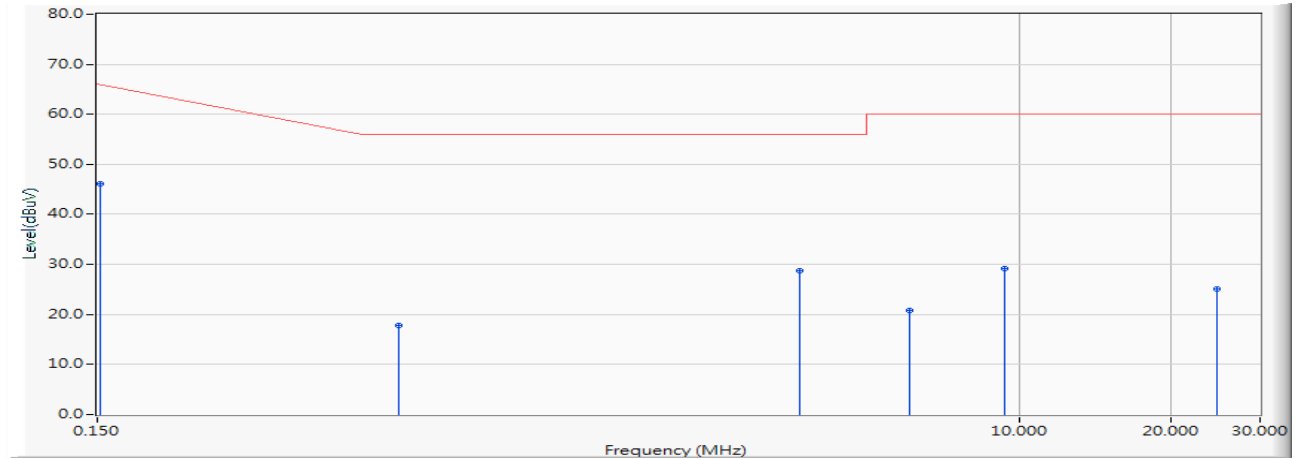


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.640	20.177	29.817	-26.183	56.000	AVERAGE
2		0.413	9.648	9.452	19.100	-29.386	48.486	AVERAGE
3		1.810	9.700	4.431	14.131	-31.869	46.000	AVERAGE
4		3.404	9.740	8.863	18.603	-27.397	46.000	AVERAGE
5		10.088	9.880	8.695	18.575	-31.425	50.000	AVERAGE
6		24.513	9.960	-2.614	7.346	-42.654	50.000	AVERAGE

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 : ROG STRIX GO 2.4 Dongle
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (2443.35MHz)

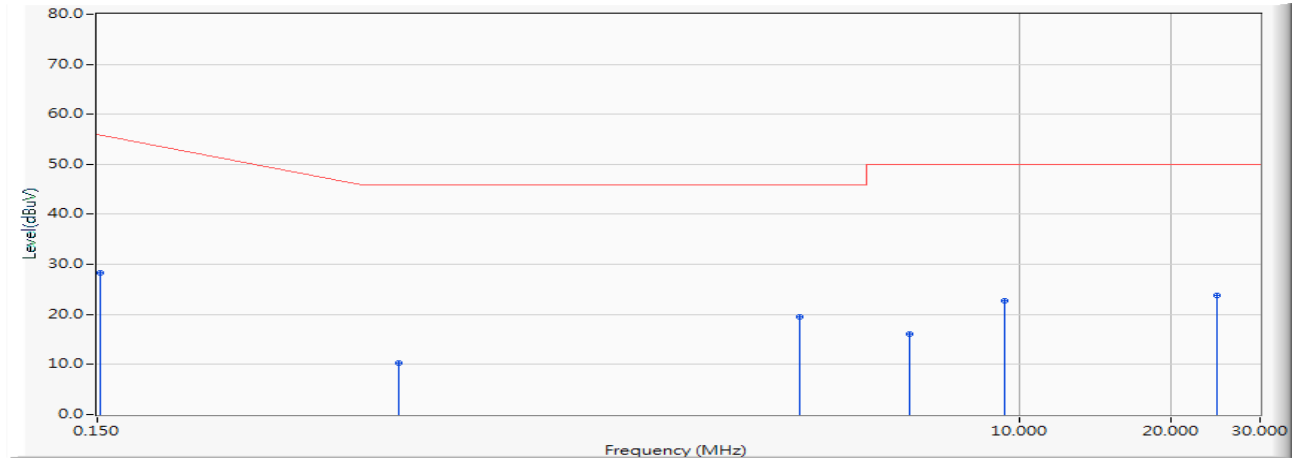


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.152	9.652	36.459	46.112	-19.831	65.943	QUASIPeAK
2		0.591	9.660	8.207	17.867	-38.133	56.000	QUASIPeAK
3		3.678	9.760	19.067	28.827	-27.173	56.000	QUASIPeAK
4		6.095	9.810	10.944	20.754	-39.246	60.000	QUASIPeAK
5		9.366	9.880	19.271	29.151	-30.849	60.000	QUASIPeAK
6		24.576	10.080	15.083	25.163	-34.837	60.000	QUASIPeAK

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 : ROG STRIX GO 2.4 Dongle
 Test Item : Conducted Emission Test
 Power Line : Line 2
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (2443.35MHz)



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.152	9.652	18.575	28.228	-27.715	55.943	AVERAGE
2		0.591	9.660	0.551	10.211	-35.789	46.000	AVERAGE
3		3.678	9.760	9.718	19.478	-26.522	46.000	AVERAGE
4		6.095	9.810	6.226	16.036	-33.964	50.000	AVERAGE
5		9.366	9.880	12.920	22.800	-27.200	50.000	AVERAGE
6	*	24.576	10.080	13.630	23.710	-26.290	50.000	AVERAGE

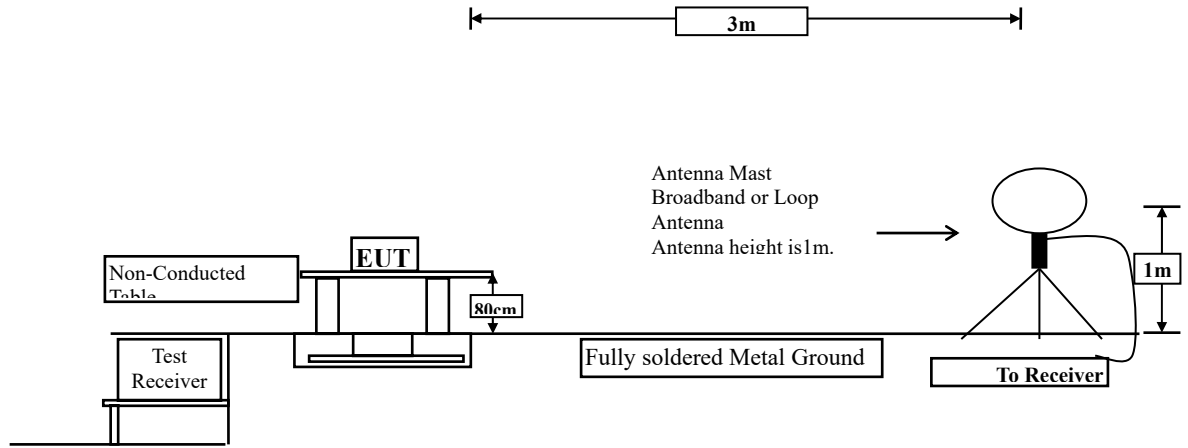
Note:

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

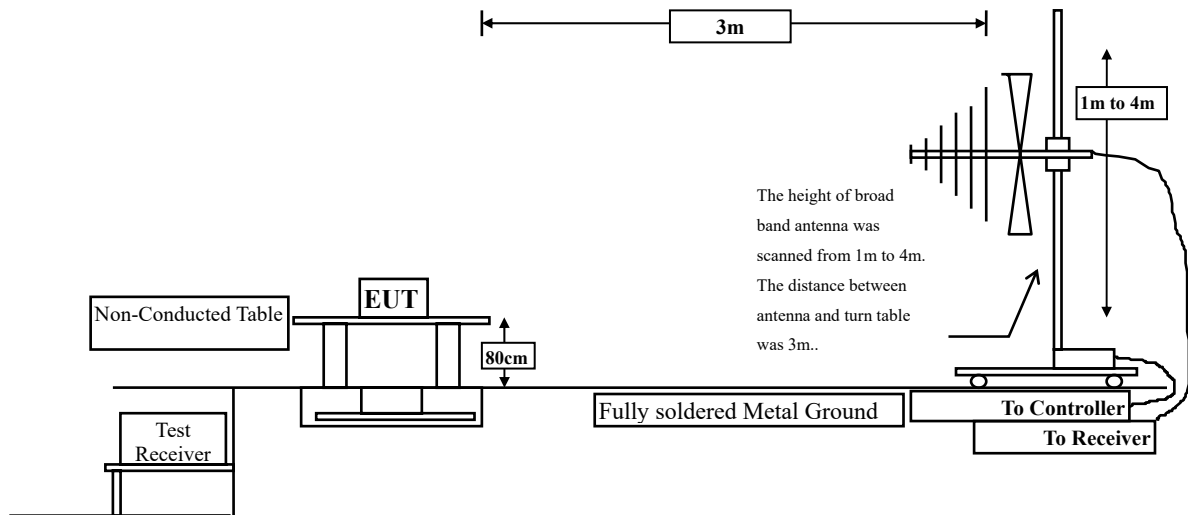
3. Radiated Emission

3.1. Test Setup

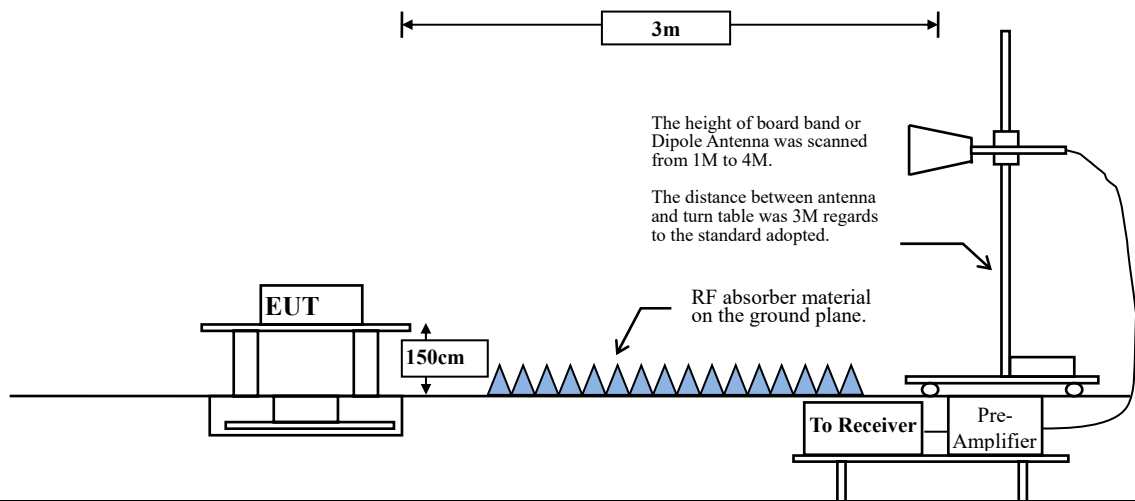
Radiated Emission Under 30MHz



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

- 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. Uncertainty

Horizontal :

30-300MHz: ± 4.08 dB ; 300M-1GHz: ± 3.86 dB ; 1-18GHz: ± 3.77 dB ; 18-40GHz: ± 3.98 dB ◦

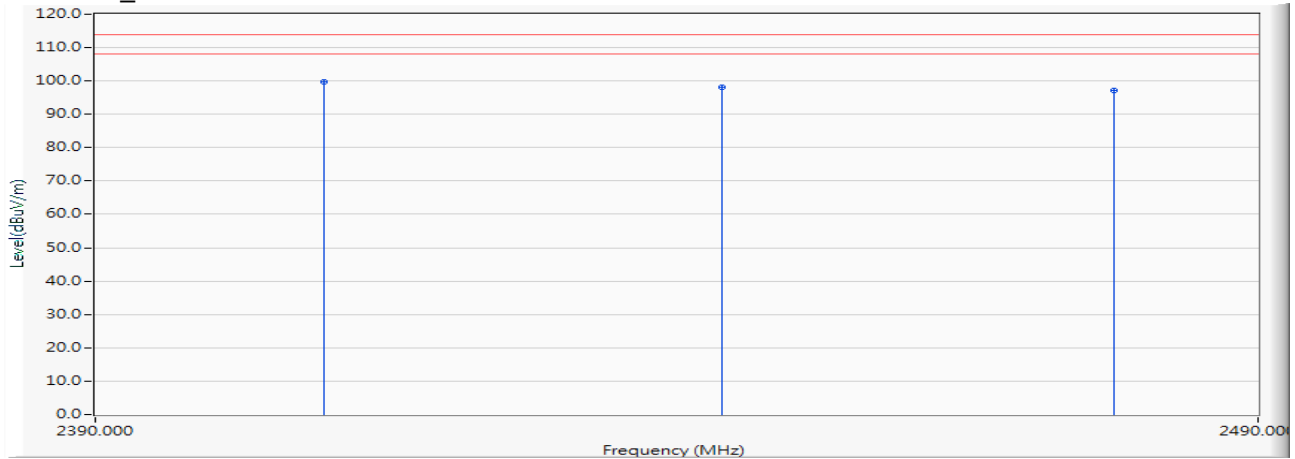
Vertical :

30-300MHz: ± 4.81 dB ; 300M-1GHz: ± 3.87 dB ; 1-18GHz: ± 3.83 dB ; 18-40GHz: ± 3.98 dB ◦

3.5. Test Result of Radiated Emission

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Fundamental Radiated Emission
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (X-Axis)

Horizontal_X-Axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2409.350	-7.546	107.430	99.884	-14.116	114.000	PEAK
2		2443.350	-7.506	105.580	98.074	-15.926	114.000	PEAK
3		2477.350	-7.466	104.480	97.014	-16.986	114.000	PEAK

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.

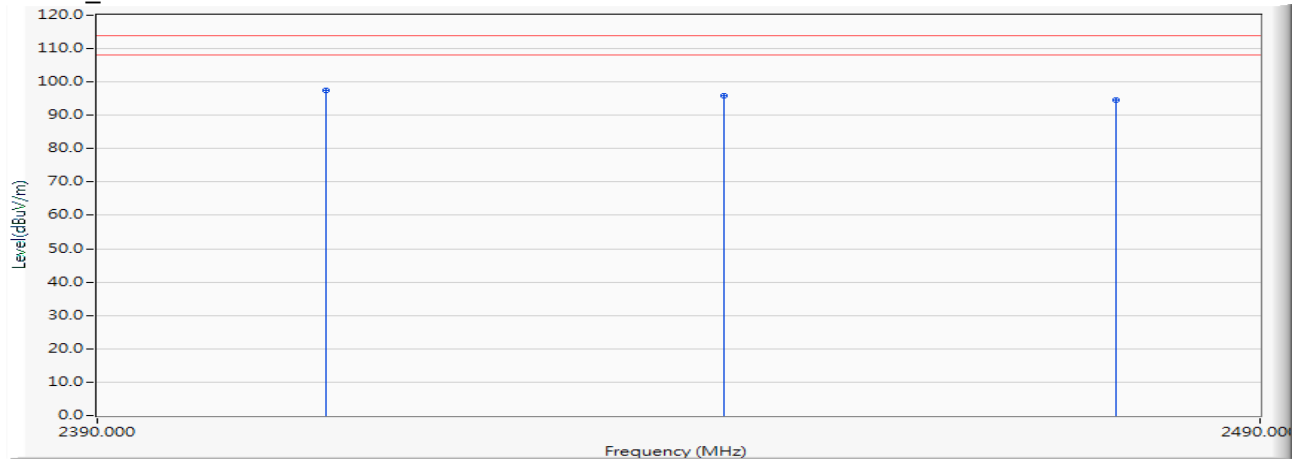
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
Horizontal_X-Axis						
01 (Average)	2409.35	99.884	-11.039	88.845	-5.155	94.000
18 (Average)	2443.35	98.074	-11.039	87.035	-6.965	94.000
35 (Average)	2477.35	97.014	-11.039	85.975	-8.025	94.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Fundamental Radiated Emission
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (X-Axis)

Vertical_X-Axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2409.350	-7.546	105.000	97.454	-16.546	114.000	PEAK
2		2443.350	-7.506	103.220	95.714	-18.286	114.000	PEAK
3		2477.350	-7.466	102.100	94.634	-19.366	114.000	PEAK

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.

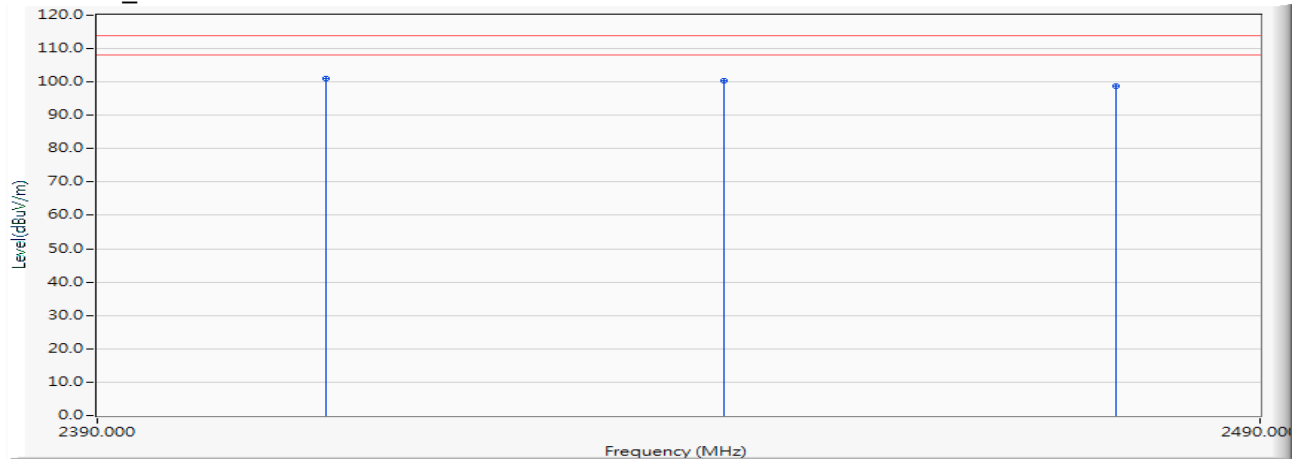
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
Vertical_X-Axis						
01 (Average)	2409.35	97.454	-11.039	86.415	-7.585	94.000
18 (Average)	2443.35	95.714	-11.039	84.675	-9.325	94.000
35 (Average)	2477.35	94.634	-11.039	83.595	-10.405	94.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Fundamental Radiated Emission
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (Y-Axis)

Horizontal_Y-Axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2409.350	-7.546	108.510	100.964	-13.036	114.000	PEAK
2		2443.350	-7.506	107.980	100.474	-13.526	114.000	PEAK
3		2477.350	-7.466	106.290	98.824	-15.176	114.000	PEAK

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.

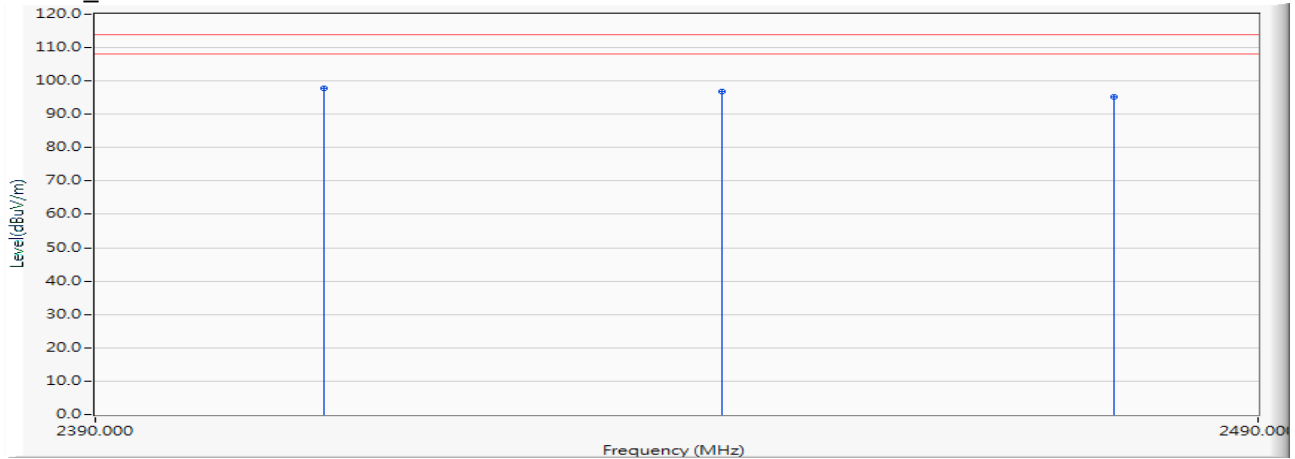
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
Horizontal_Y-Axis						
01 (Average)	2409.35	100.964	-11.039	89.925	-4.075	94.000
18 (Average)	2443.35	100.474	-11.039	89.435	-4.565	94.000
35 (Average)	2477.35	98.824	-11.039	87.785	-6.215	94.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Fundamental Radiated Emission
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (Y-Axis)

Vertical_Y-Axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2409.350	-7.546	105.420	97.874	-16.126	114.000	PEAK
2		2443.350	-7.506	104.410	96.904	-17.096	114.000	PEAK
3		2477.350	-7.466	102.740	95.274	-18.726	114.000	PEAK

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.

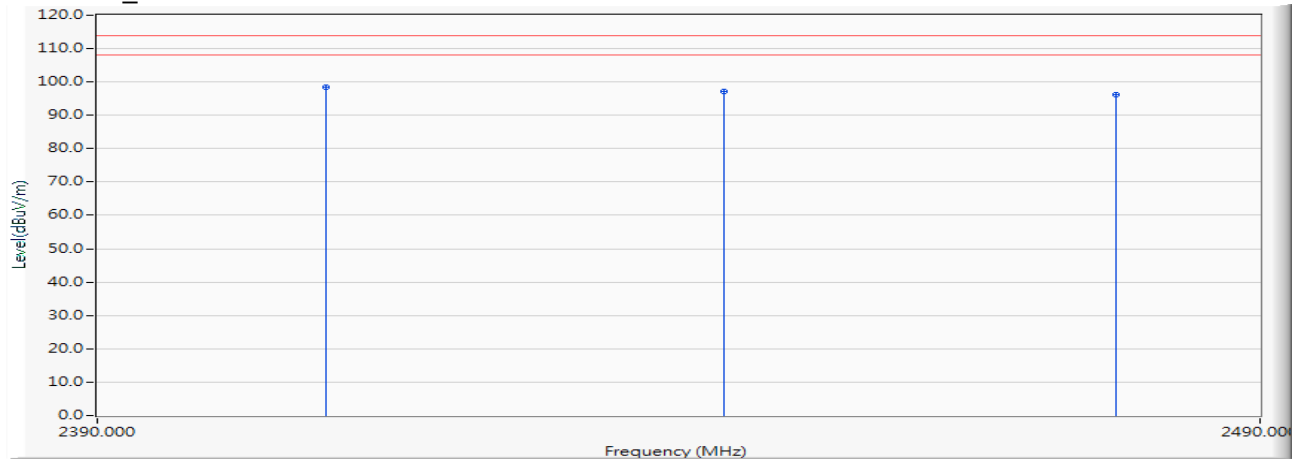
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
Vertical_Y-Axis						
01 (Average)	2409.35	97.874	-11.039	86.835	-7.165	94.000
18 (Average)	2443.35	96.904	-11.039	85.865	-8.135	94.000
35 (Average)	2477.35	95.274	-11.039	84.235	-9.765	94.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Fundamental Radiated Emission
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (Z-Axis)

Horizontal_Z-Axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2409.350	-7.546	106.000	98.454	-15.546	114.000	PEAK
2		2443.350	-7.506	104.750	97.244	-16.756	114.000	PEAK
3		2477.350	-7.466	103.630	96.164	-17.836	114.000	PEAK

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.

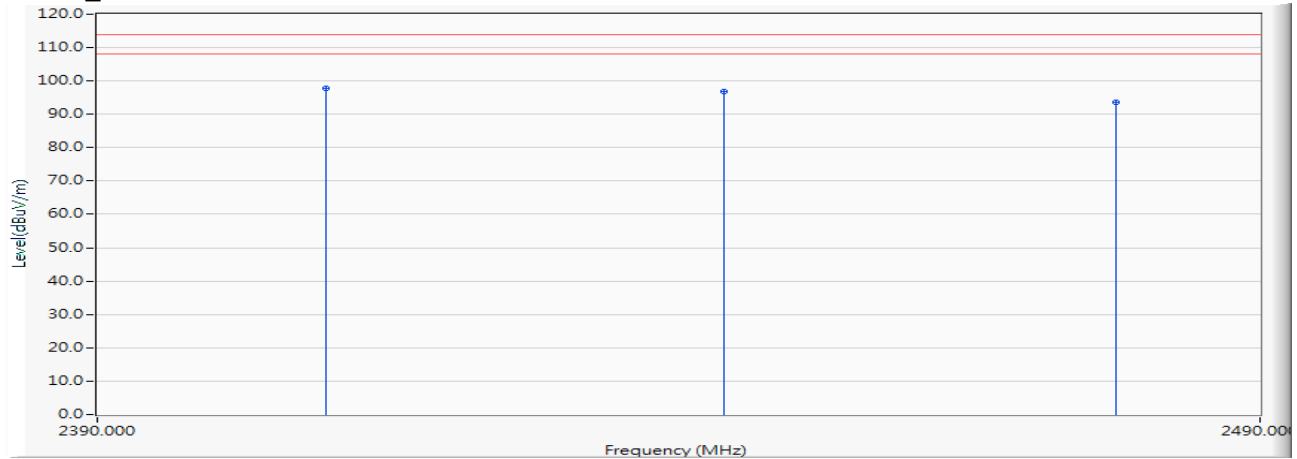
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
Horizontal_Z-Axis						
01 (Average)	2409.35	98.454	-11.039	87.415	-6.585	94.000
18 (Average)	2443.35	97.244	-11.039	86.205	-7.795	94.000
35 (Average)	2477.35	96.164	-11.039	85.125	-8.875	94.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Fundamental Radiated Emission
 Test Date : 2019/09/04
 Test Mode : Mode 1: Transmit (Z-Axis)

Vertical_Z-Axis



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2409.350	-7.546	105.270	97.724	-16.276	114.000	PEAK
2		2443.350	-7.506	104.190	96.684	-17.316	114.000	PEAK
3		2477.350	-7.466	101.110	93.644	-20.356	114.000	PEAK

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.

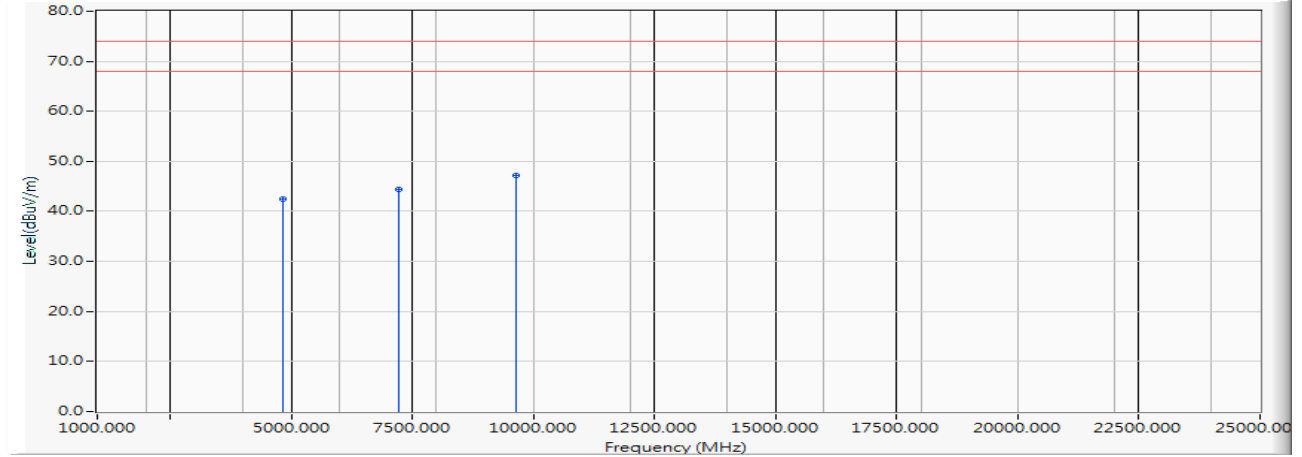
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)
Vertical_Z-Axis						
01 (Average)	2409.35	97.724	-11.039	86.685	-7.315	94.000
18 (Average)	2443.35	96.684	-11.039	85.645	-8.355	94.000
35 (Average)	2477.35	93.644	-11.039	82.605	-11.395	94.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2409.35MHz)

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4818.700	-3.659	46.180	42.521	-31.479	74.000	PEAK
2		7228.050	-0.371	44.680	44.310	-29.690	74.000	PEAK
3	*	9637.400	1.658	45.480	47.138	-26.862	74.000	PEAK

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.

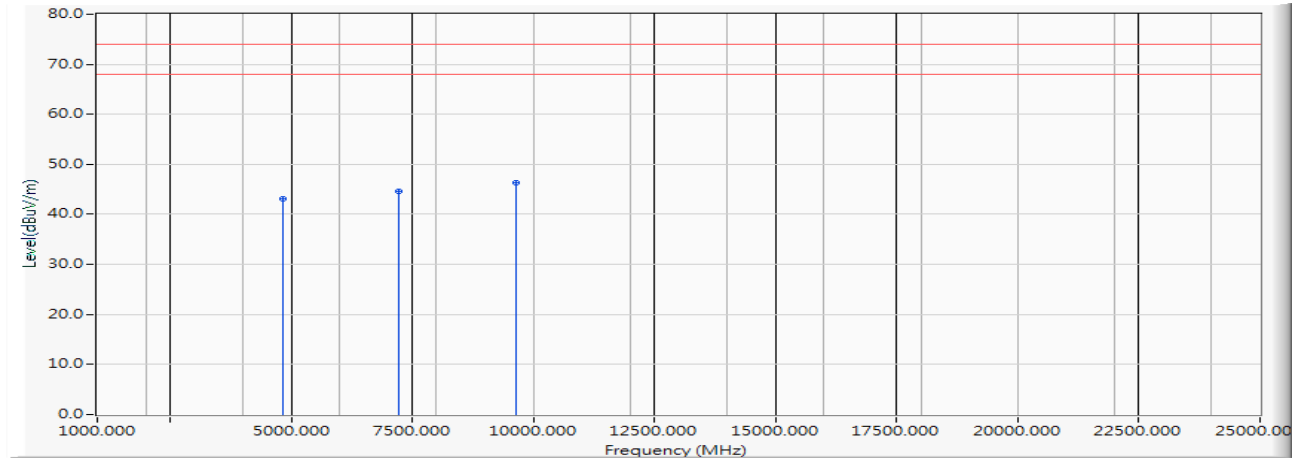
Frequency	Peak Measurement	Duty Cycle Factor	Average Measurement	Margin	Peak Limit	Average Limit
MHz	dBμV/m	dB	dBμV/m	dB	dBμV/m	dBμV/m
Average Detector:						
--	--	--	--	--	74.000	54.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2409.35MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4818.700	-3.659	46.840	43.181	-30.819	74.000	PEAK
2		7228.050	-0.371	44.980	44.610	-29.390	74.000	PEAK
3	*	9637.400	1.658	44.610	46.268	-27.732	74.000	PEAK

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.

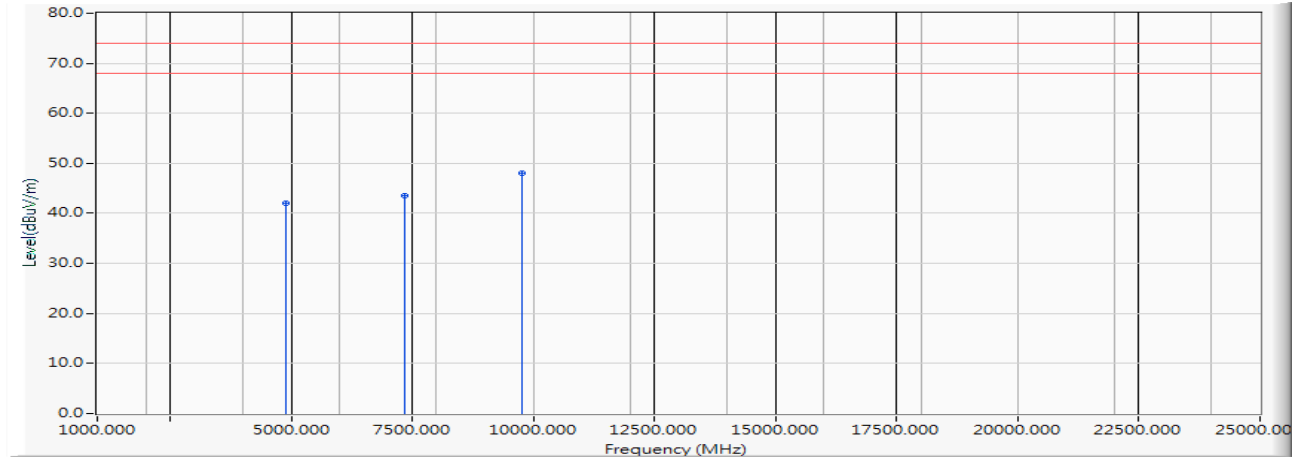
Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)
Average Detector:						
--	--	--	--	--	74.000	54.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2443.35MHz)

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4886.700	-3.573	45.710	42.137	-31.863	74.000	PEAK
2		7330.050	-0.311	43.870	43.559	-30.441	74.000	PEAK
3	*	9773.400	2.091	45.910	48.000	-26.000	74.000	PEAK

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:

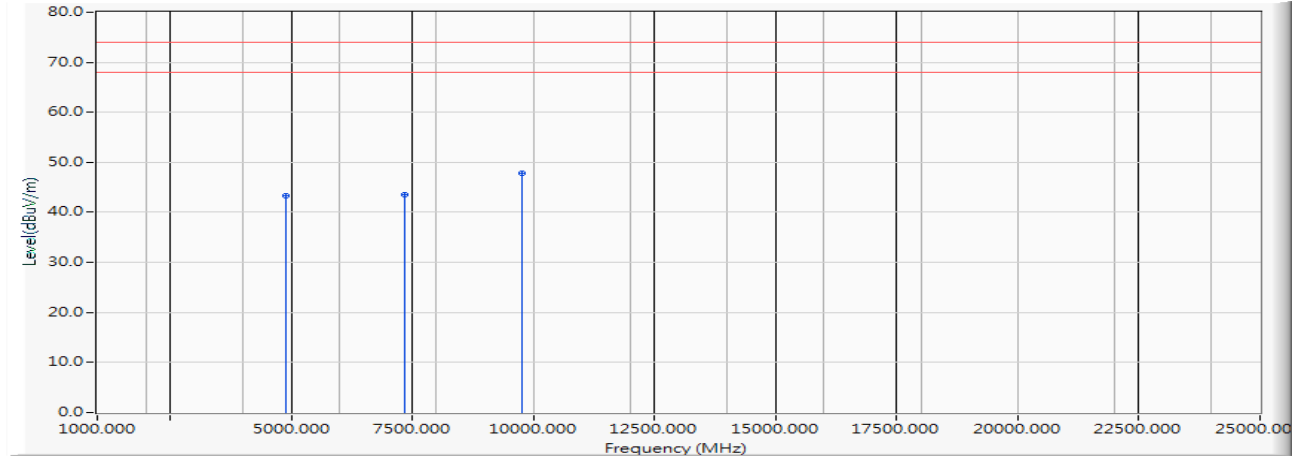
--	--	--	--	--	74.000	54.000
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Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2443.35MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4886.700	-3.573	46.840	43.267	-30.733	74.000	PEAK
2		7330.050	-0.311	43.830	43.519	-30.481	74.000	PEAK
3	*	9773.400	2.091	45.760	47.850	-26.150	74.000	PEAK

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:

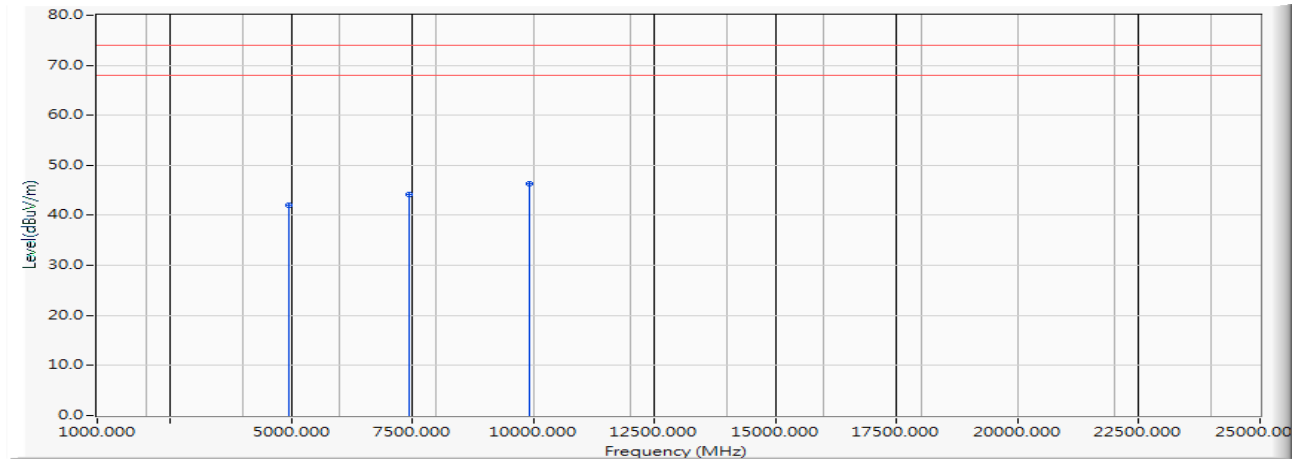
--	--	--	--	--	74.000	54.000
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Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2477.35MHz)

Horizontal



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4954.700	-3.640	45.650	42.010	-31.990	74.000	PEAK
2	7432.050	-0.139	44.320	44.182	-29.818	74.000	PEAK
3	* 9909.400	2.314	43.980	46.293	-27.707	74.000	PEAK

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.

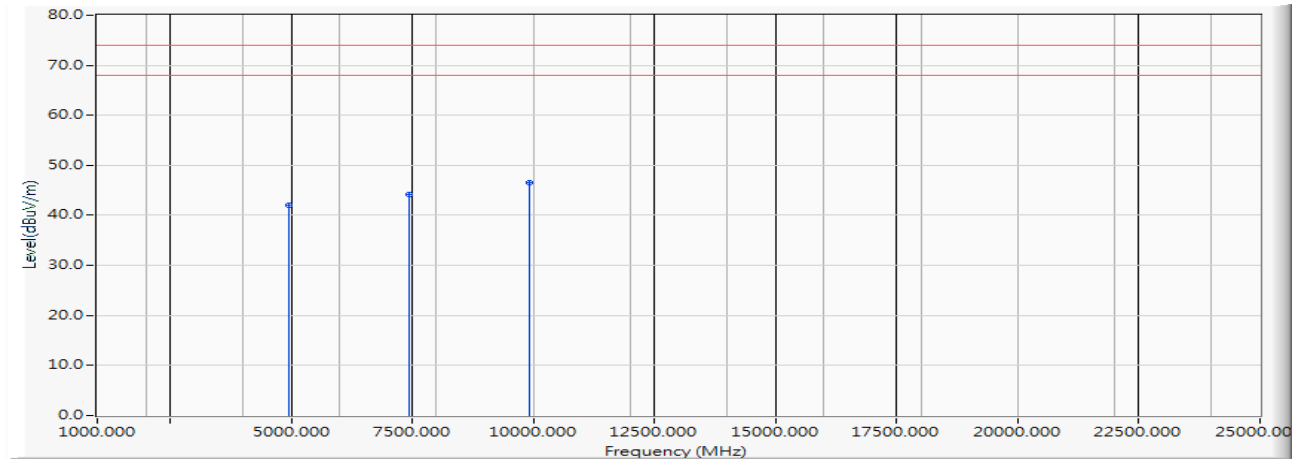
Frequency	Peak Measurement	Duty Cycle Factor	Average Measurement	Margin	Peak Limit	Average Limit
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m	dBuV/m
Average Detector:	--	--	--	--	74.000	54.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Harmonic Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2477.35MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4954.700	-3.640	45.730	42.090	-31.910	74.000	PEAK
2		7432.050	-0.139	44.420	44.282	-29.718	74.000	PEAK
3	*	9909.400	2.314	44.170	46.483	-27.517	74.000	PEAK

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.

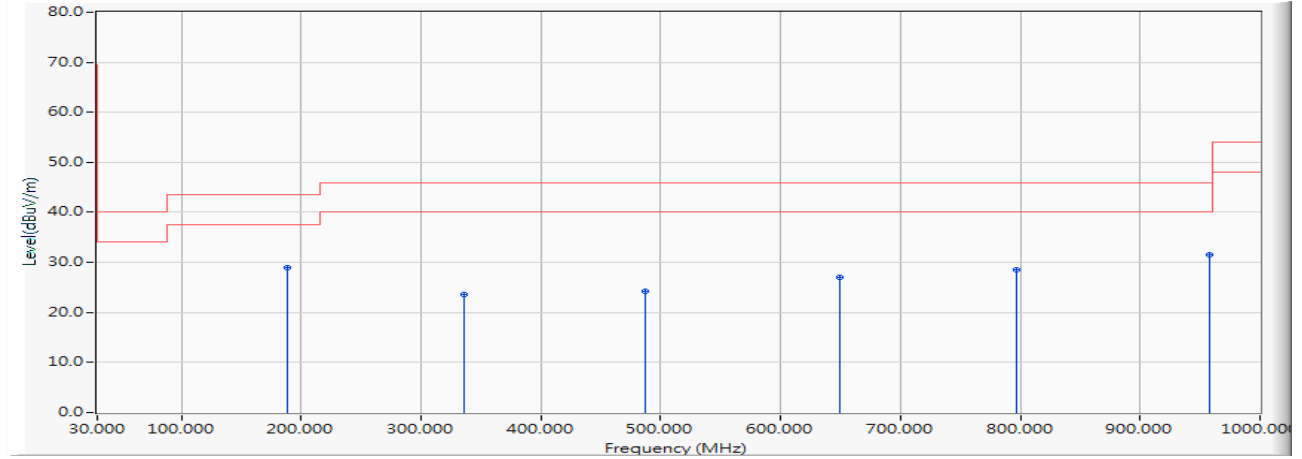
Frequency	Peak Measurement	Duty Cycle Factor	Average Measurement	Margin	Peak Limit	Average Limit
MHz	dBuV/m	dB	dBuV/m	dB	dBuV/m	dBuV/m
Average Detector:	--	--	--	--	74.000	54.000

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : General Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2443.35MHz)

Horizontal



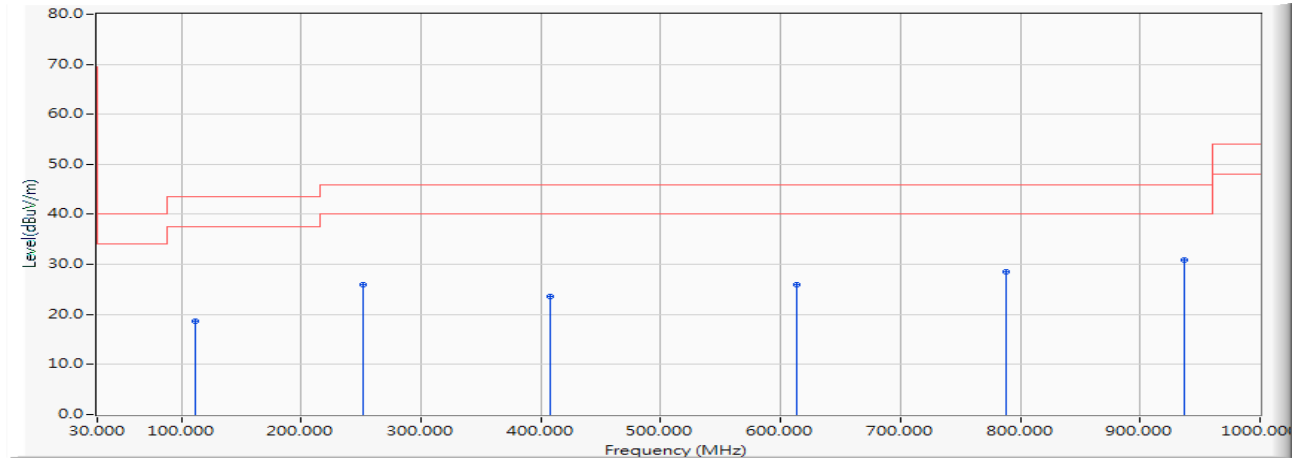
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		189.080	-13.481	42.378	28.897	-14.603	43.500	QUASIPEAK
2		336.520	-9.493	33.043	23.550	-22.450	46.000	QUASIPEAK
3		486.870	-6.174	30.317	24.143	-21.857	46.000	QUASIPEAK
4		648.860	-3.704	30.628	26.924	-19.076	46.000	QUASIPEAK
5		797.270	-1.678	30.198	28.520	-17.480	46.000	QUASIPEAK
6	*	958.290	0.460	30.981	31.441	-14.559	46.000	QUASIPEAK

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 : ROG STRIX GO 2.4 Dongle
 Test Item : General Radiated Emission Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2443.35MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		111.480	-14.249	32.907	18.658	-24.842	43.500	QUASIPEAK
2		251.160	-12.067	38.118	26.052	-19.948	46.000	QUASIPEAK
3		408.300	-7.830	31.404	23.574	-22.426	46.000	QUASIPEAK
4		612.970	-3.926	29.770	25.845	-20.155	46.000	QUASIPEAK
5		788.540	-1.746	30.365	28.619	-17.381	46.000	QUASIPEAK
6	*	936.950	0.206	30.621	30.827	-15.173	46.000	QUASIPEAK

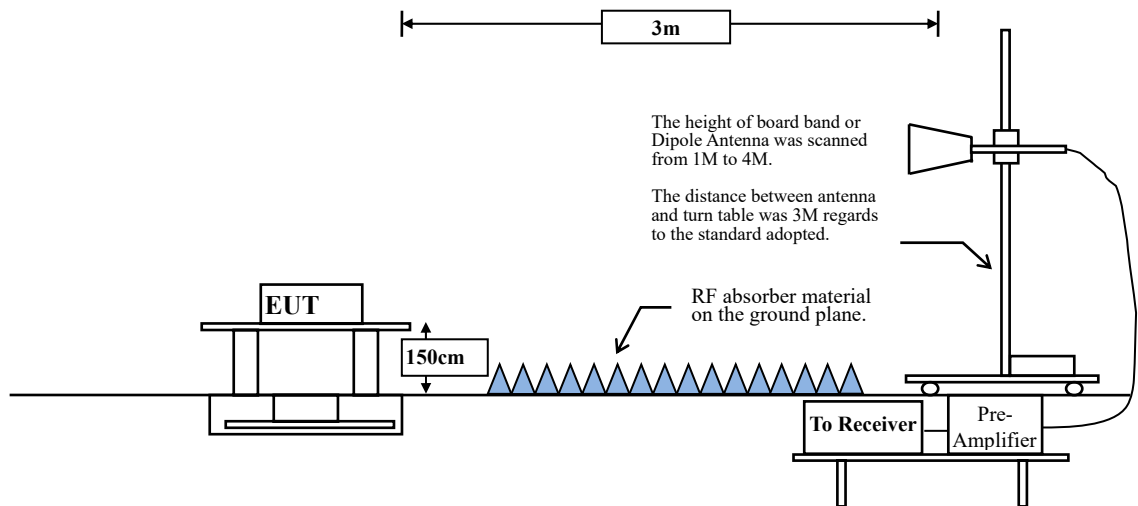
Note:

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 (dB μ 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. Uncertainty

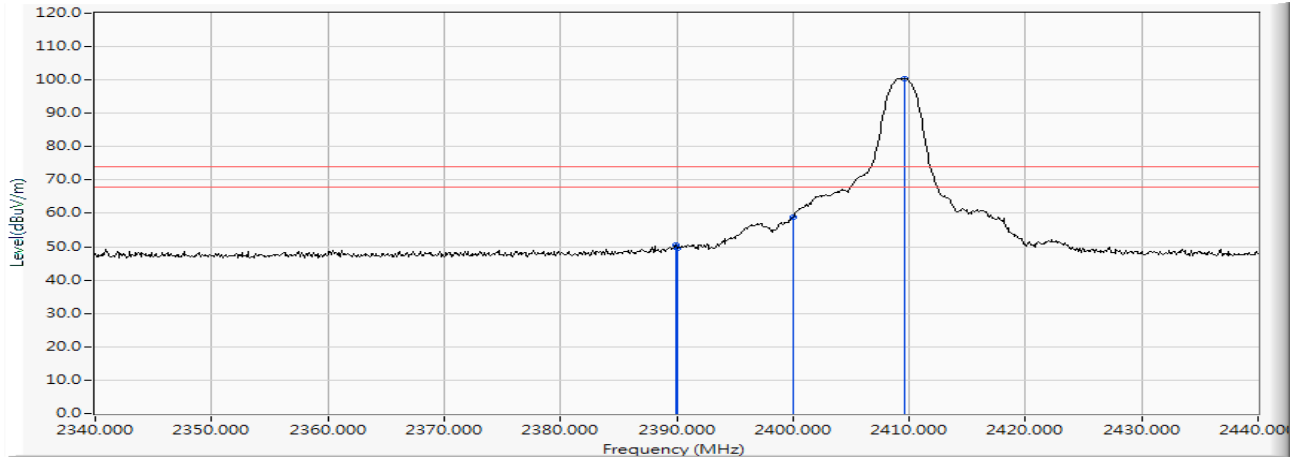
Horizontal polarization : 1-18GHz: ± 3.77 dB

Vertical polarization : 1-18GHz : ± 3.83 dB

4.5. Test Result of Band Edge

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Band Edge Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2409.35MHz)

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.900	10.994	39.543	50.537	-23.463	74.000	PEAK
2		2390.000	10.994	38.710	49.704	-24.296	74.000	PEAK
3		2400.000	11.023	47.797	58.820	-15.180	74.000	PEAK
4	*	2409.600	11.055	89.419	100.473	--	--	PEAK

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.

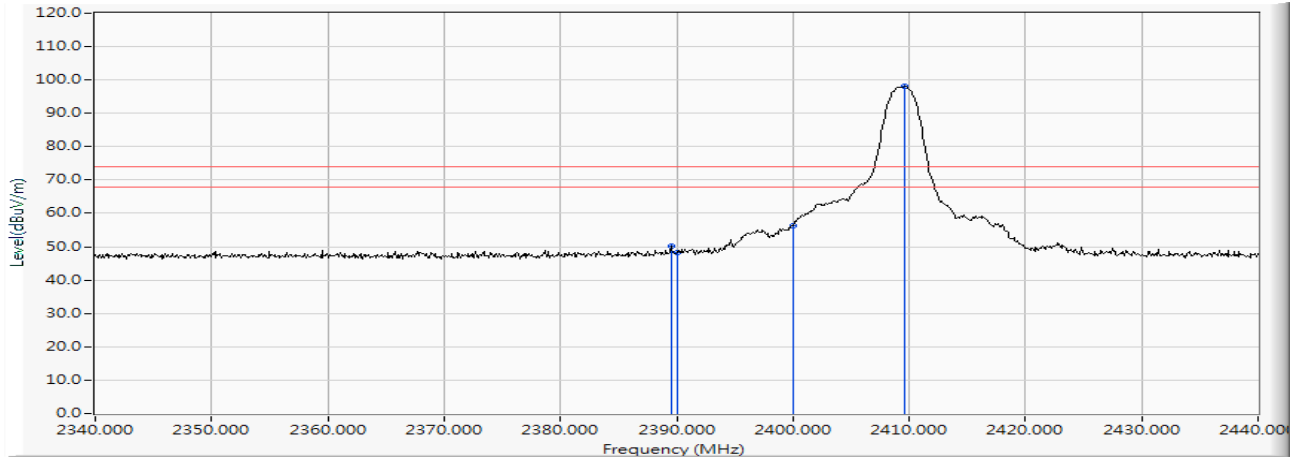
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
01 (Average)	2389.900	50.537	-11.039	39.498	-14.502	54.000	Pass
01 (Average)	2390.000	49.704	-11.039	38.665	-15.335	54.000	Pass
01 (Average)	2400.000	58.820	-11.039	47.781	-6.219	54.000	Pass
01 (Average)	2409.600	100.473	-11.039	89.434	--	--	--

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Band Edge Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2409.35MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		2389.500	10.993	39.284	50.277	-23.723	74.000	PEAK
2		2390.000	10.994	37.219	48.213	-25.787	74.000	PEAK
3		2400.000	11.023	45.334	56.357	-17.643	74.000	PEAK
4	*	2409.600	11.055	86.957	98.011	--	--	PEAK

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.

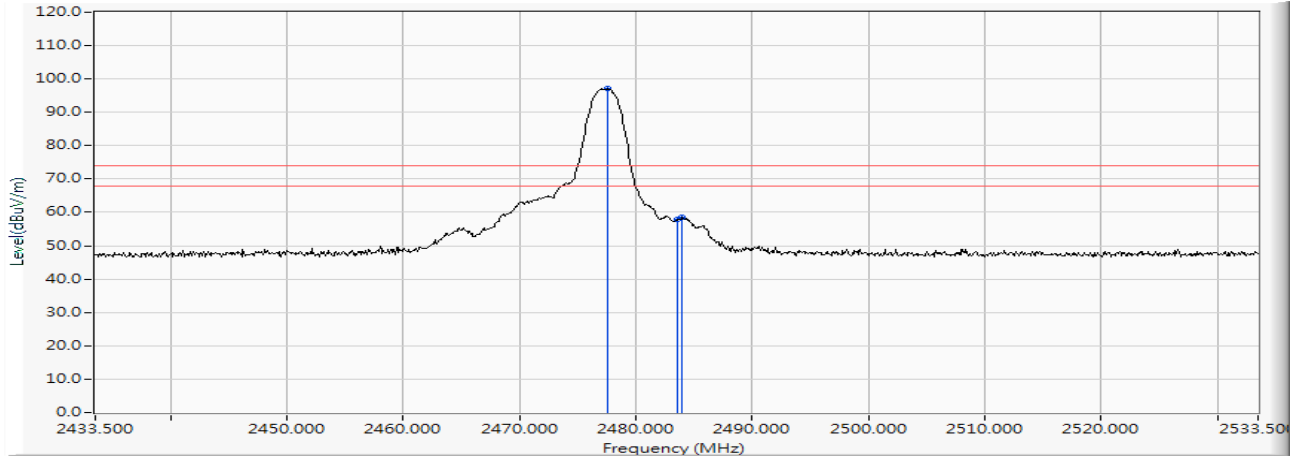
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
01 (Average)	2389.500	50.277	-11.039	39.238	-14.762	54.000	Pass
01 (Average)	2390.000	48.213	-11.039	37.174	-16.826	54.000	Pass
01 (Average)	2400.000	56.357	-11.039	45.318	-8.682	54.000	Pass
01 (Average)	2409.600	98.011	-11.039	86.972	--	--	--

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Band Edge Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2477.35MHz)

Horizontal



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2477.600	11.244	85.783	97.027	--	--	PEAK
2		2483.500	11.262	46.699	57.961	-16.039	74.000	PEAK
3		2484.000	11.264	47.305	58.569	-15.431	74.000	PEAK

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.

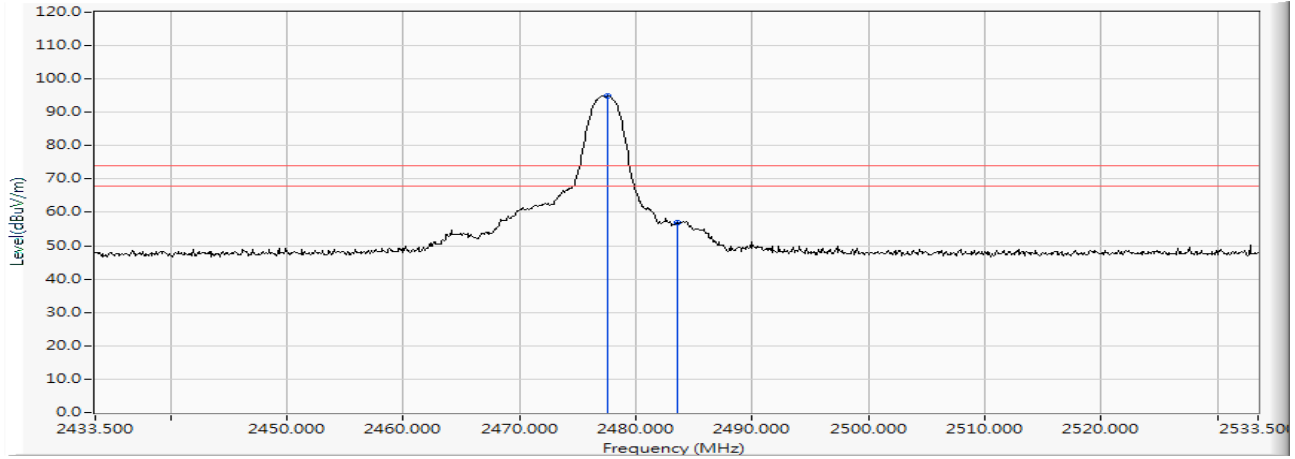
Channel No.	Frequency (MHz)	Peak Measurement (dBuV/m)	Duty Cycle Factor (dB)	Average Measurement (dBuV/m)	Margin (dB)	Average Limit (dBuV/m)	Result
35 (Average)	2477.600	97.027	-11.039	85.988	--	--	--
35 (Average)	2483.500	57.961	-11.039	46.922	-7.078	54.000	Pass
35 (Average)	2484.000	58.569	-11.039	47.530	-6.470	54.000	Pass

Note:

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

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Band Edge Data
 Test Date : 2019/09/03
 Test Mode : Mode 1: Transmit (2477.35MHz)

Vertical



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2477.600	11.244	83.693	94.937	--	--	PEAK
2		2483.500	11.262	45.819	57.081	-16.919	74.000	PEAK

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.

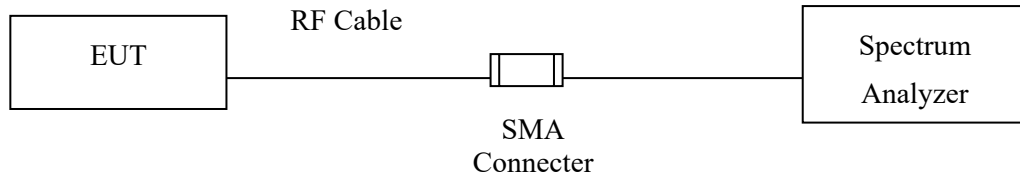
Channel No.	Frequency (MHz)	Peak Measurement (dBμV/m)	Duty Cycle Factor (dB)	Average Measurement (dBμV/m)	Margin (dB)	Average Limit (dBμV/m)	Result
35 (Average)	2477.600	94.937	-11.039	83.898	--	--	--
35 (Average)	2483.500	57.081	-11.039	46.042	-7.958	54.000	Pass

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

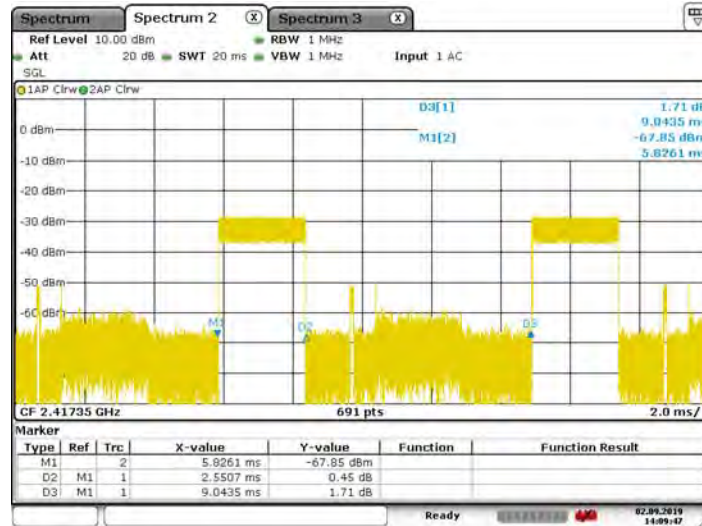


5.2. Uncertainty

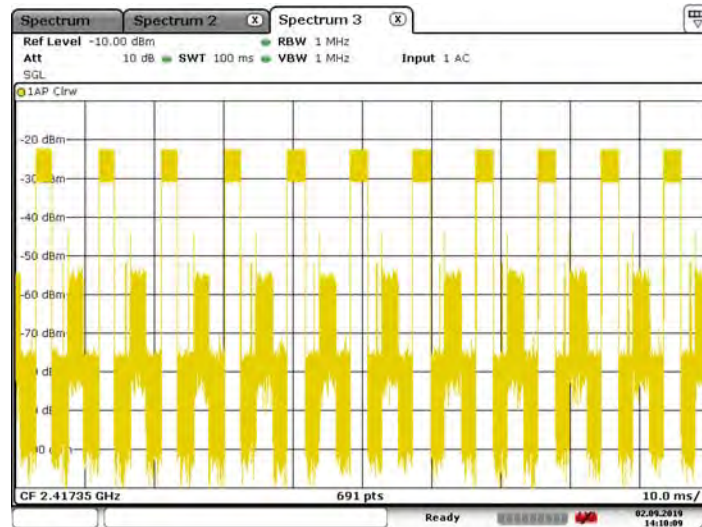
± 2.31ms

5.3. Test Result of Duty Cycle

Product : ROG STRIX GO 2.4 Dongle
 Test Item : Duty Cycle Data
 Test Mode : Normal mode



Date: 2 SEP 2019 14:09:47



Date: 2 SEP 2019 14:10:09

Time on of 100ms= 2.5507ms*11= 28.058ms

Duty Cycle=28.058ms / 100ms= 0.28058

Duty Cycle correction factor= 20 LOG 0.28058= -11.039 dB

Duty Cycle correction factor	-11.039	dB
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6. EMI Reduction Method During Compliance Testing

No modification was made during testing.