

RF Exposure Evaluation declaration

Product Name : ROG Rapture GT-AX6000 Dual-band Gaming Router/
ROG Rapture GT-AC5400 Dual-band Gaming Router
Trade Name : ASUS
Model No. : GT-AX6000, GT-AC5400
FCC ID. : MSQ-RTAX2E00

Applicant : ASUSTeK COMPUTER INC.

Address : 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt : Sep. 28, 2018 ~ Dec. 05, 2018

Date of Declaration : Jan. 03, 2019

Report No. : 18B0158R-RF-US-Exp

Report Version : V1.0



The declaration results relate only to the samples calculated.

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1. RF Exposure Evaluation

1.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
300-1500	--	--	F/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
300-1500	--	--	F/1500	6
1500-100,000	--	--	1	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

1.2. Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

The temperature and related humidity: 18°C and 78% RH.

1.3. Test Result of RF Exposure Evaluation

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit _BF mode
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.2 dBi or 1.66dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (20MHz) (ANT 0+1+2+3)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
1	2412	620.440	0.20490
6	2437	966.718	0.31925
11	2462	379.665	0.12538

IEEE 802.11ac (40MHz) (ANT 0+1+2+3)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
3	2422	535.920	0.177
6	2437	523.359	0.173
9	2452	261.276	0.086

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_BF mode
Test Condition	RF Exposure Evaluation

Antenna Gain

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.2 dBi or 1.66dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
1	2412	629.506	0.208
6	2437	969.170	0.320
11	2462	304.439	0.101

IEEE 802.11ax (40MHz) (ANT 0+1+2+3)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
3	2422	511.211	0.169
6	2437	407.005	0.134
9	2452	257.395	0.085

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	409.921	0.175

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	398.016	0.169

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	396.278	0.169

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	388.419	0.165

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11a (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	46.574	0.020
60	5300	46.065	0.020
64	5320	48.108	0.020
100	5500	46.720	0.020
116	5580	48.289	0.021
140	5700	46.256	0.020
144	5720(B3)	34.216	0.015
144	5720(B4)	10.500	0.004

IEEE 802.11ac (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	51.022	0.022
60	5300	49.585	0.021
64	5320	50.166	0.021
100	5500	48.949	0.021
116	5580	48.199	0.021
140	5700	48.243	0.021
144	5720(B3)	36.258	0.015
144	5720(B4)	10.957	0.005

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	101.937	0.043
62	5310	108.857	0.046
102	5510	102.503	0.044
118	5590	101.957	0.043
134	5670	103.181	0.044
142	5710(B3)	115.427	0.049
142	5710(B4)	9.667	0.004

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	221.898	0.094
106	5530	211.026	0.090
122	5610	209.733	0.089
138	5690(B3)	217.789	0.093
138	5690(B4)	6.119	0.003

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (160MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
50 (4TX)	5250	212.471	0.090
50 (4TX)	5250	184.884	0.079
114 (4TX+4TX)	5690	178.402	0.076

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	53.169	0.023
60	5300	54.988	0.023
64	5320	57.283	0.024
100	5500	53.099	0.023
116	5580	54.697	0.023
140	5700	53.662	0.023
144	5720(B3)	40.931	0.017
144	5720(B4)	12.908	0.006

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	113.851	0.048
62	5310	112.556	0.048
102	5510	114.636	0.049
118	5590	113.564	0.048
134	5670	113.355	0.048
142	5710(B3)	105.057	0.045
142	5710(B4)	10.748	0.005

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	227.251	0.097
106	5530	228.944	0.097
122	5610	229.657	0.098
138	5690(B3)	211.255	0.090
138	5690(B4)	7.330	0.003

IEEE 802.11ax (160MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
50 (4TX)	5250	205.353	0.087
50 (4TX)	5250	168.461	0.072
114 (4TX+4TX)	5690	172.663	0.074

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	404.017	0.172

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	397.009	0.169

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	399.393	0.170

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	385.834	0.164

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	109.228	0.047
60	5300	104.095	0.044
64	5320	104.151	0.044
100	5500	103.942	0.044
116	5580	102.832	0.044
140	5700	104.169	0.044
144	5720(B3)	100.976	0.043
144	5720(B4)	20.396	0.009

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	207.934	0.089
62	5310	191.824	0.082
102	5510	197.352	0.084
118	5590	189.159	0.081
134	5670	199.407	0.085
142	5710(B3)	196.926	0.084
142	5710(B4)	17.393	0.007

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	237.004	237.004
106	5530	236.517	236.517
122	5610	239.798	239.798
138	5690(B3)	227.252	227.252
138	5690(B4)	6.778	6.778

IEEE 802.11ac (160MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
50 (4TX)	5250	267.979	0.114
50 (4TX)	5250	229.298	0.098
114 (4TX+4TX)	5690	228.613	0.097

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	108.110	0.046
60	5300	108.843	0.046
64	5320	111.797	0.048
100	5500	114.908	0.049
116	5580	109.156	0.046
140	5700	107.497	0.046
144	5720(B3)	107.338	0.046
144	5720(B4)	22.003	0.009

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	199.548	0.085
62	5310	214.579	0.091
102	5510	197.512	0.084
118	5590	209.009	0.089
134	5670	195.404	0.083
142	5710(B3)	211.039	0.090
142	5710(B4)	23.076	0.010

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	232.804	0.099
106	5530	231.172	0.098
122	5610	230.375	0.098
138	5690(B3)	241.636	0.103
138	5690(B4)	7.431	0.003

IEEE 802.11ax (160MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
50 (4TX)	5250	256.744	0.109
50 (4TX)	5250	217.922	0.093
114 (4TX+4TX)	5690	241.435	0.103

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ Non BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	454.465	0.193

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	396.096	0.169

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	457.509	0.195

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	436.818	0.186

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
36	5180	276.249	0.118

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	305.352	0.130

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

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Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
36	5180	239.883	0.102
44	5220	229.615	0.098
48	5240	227.248	0.097

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	271.894	0.116
46	5230	294.442	0.125

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	298.126	0.127

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

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IEEE 802.11ax(20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
149	5745	304.509	0.130
157	5785	289.135	0.123
165	5825	290.670	0.124

IEEE 802.11ax(40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
151	5755	289.334	0.123
159	5795	299.020	0.127

IEEE 802.11ax(80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
151	5755	291.206	0.124

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	51.022	0.022
60	5300	49.585	0.021
64	5320	50.166	0.021
100	5500	48.949	0.021
116	5580	48.199	0.021
140	5700	48.243	0.021
144	5720(B3)	36.258	0.015
144	5720(B4)	10.956	0.005

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	76.333	0.033
62	5310	72.307	0.031
102	5510	74.652	0.032
118	5590	75.907	0.032
134	5670	73.648	0.031
142	5710(B3)	74.852	0.032
142	5710(B4)	5.817	0.002

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	76.461	0.033
106	5530	70.979	0.030
122	5610	74.150	0.032
138	5690(B3)	75.185	0.032
138	5690(B4)	2.231	0.001

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	53.169	0.023
60	5300	54.988	0.023
64	5320	57.283	0.024
100	5500	53.099	0.023
116	5580	54.697	0.023
140	5700	53.662	0.023
144	5720(B3)	40.931	0.017
144	5720(B4)	12.908	0.006

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	71.717	0.031
62	5310	69.108	0.029
102	5510	73.309	0.031
118	5590	72.836	0.031
134	5670	71.009	0.030
142	5710(B3)	76.295	0.032
142	5710(B4)	8.008	0.003

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS1
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	73.040	0.031
106	5530	69.206	0.029
122	5610	72.121	0.031
138	5690(B3)	74.199	0.032
138	5690(B4)	2.741	0.001

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
36	5180	449.366	0.191

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	441.774	0.188

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
36	5180	426.285	0.181
44	5220	406.443	0.173
48	5240	418.987	0.178

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	435.412	0.185
46	5230	598.825	0.255

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	341.193	0.145

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax(20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
149	5745	603.671	0.257
157	5785	590.065	0.251
165	5825	606.597	0.258

IEEE 802.11ax(40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
151	5755	564.937	0.241
159	5795	588.573	0.251

IEEE 802.11ax(80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
151	5755	582.103	0.248

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	109.228	0.047
60	5300	104.095	0.044
64	5320	104.151	0.044
100	5500	103.942	0.044
116	5580	102.832	0.044
140	5700	104.169	0.044
144	5720(B3)	100.976	0.043
144	5720(B4)	20.396	0.009

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	148.206	0.063
62	5310	140.337	0.060
102	5510	143.419	0.061
118	5590	152.946	0.065
134	5670	147.523	0.063
142	5710(B3)	142.346	0.061
142	5710(B4)	12.267	0.005

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	151.496	0.065
106	5530	151.386	0.064
122	5610	153.039	0.065
138	5690(B3)	145.006	0.062
138	5690(B4)	4.448	0.002

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	108.110	0.046
60	5300	108.843	0.046
64	5320	111.797	0.048
100	5500	114.908	0.049
116	5580	109.156	0.046
140	5700	107.497	0.046
144	5720(B3)	107.338	0.046
144	5720(B4)	22.003	0.009

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	146.934	0.063
62	5310	138.360	0.059
102	5510	144.646	0.062
118	5590	140.595	0.060
134	5670	150.348	0.064
142	5710(B3)	141.284	0.060
142	5710(B4)	12.232	0.005

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS2
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	151.059	0.064
106	5530	146.972	0.063
122	5610	150.433	0.064
138	5690(B3)	145.427	0.062
138	5690(B4)	4.523	0.002

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
36	5180	454.465	0.193

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	396.096	0.169

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
36	5180	670.193	0.285
44	5220	795.976	0.339
48	5240	737.225	0.314

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
38	5190	457.509	0.195
46	5230	941.456	0.401

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
42	5210	436.818	0.186

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax(20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
149	5745	948.855	0.404
157	5785	994.947	0.424
165	5825	997.930	0.425

IEEE 802.11ax(40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
151	5755	934.114	0.398
159	5795	965.606	0.411

IEEE 802.11ax(80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
151	5755	994.260	0.423

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	183.415	0.078
60	5300	182.701	0.078
64	5320	170.123	0.072
100	5500	175.266	0.075
116	5580	182.263	0.078
140	5700	175.795	0.075
144	5720(B3)	176.592	0.075
144	5720(B4)	37.237	0.016

IEEE 802.11ac (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	232.556	0.099
62	5310	245.752	0.105
102	5510	250.808	0.107
118	5590	244.712	0.104
134	5670	228.606	0.097
142	5710(B3)	227.350	0.097
142	5710(B4)	23.786	0.010

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ac (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	228.499	0.097
106	5530	234.406	0.100
122	5610	238.603	0.102
138	5690(B3)	225.130	0.096
138	5690(B4)	9.005	0.004

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (20MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
52	5260	183.259	0.078
60	5300	187.560	0.080
64	5320	192.272	0.082
100	5500	190.308	0.081
116	5580	184.353	0.078
140	5700	190.448	0.081
144	5720(B3)	189.289	0.081
144	5720(B4)	37.039	0.016

IEEE 802.11ax (40MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
54	5270	239.809	0.102
62	5310	250.817	0.107
102	5510	250.717	0.107
118	5590	245.186	0.104
134	5670	234.444	0.100
142	5710(B3)	234.197	0.100
142	5710(B4)	22.280	0.009

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².

Product	ROG Rapture GT-AX6000 Dual-band Gaming Router/ ROG Rapture GT-AC5400 Dual-band Gaming Router
Test Mode	Transmit_ BF mode_ NSS4
Test Condition	RF Exposure Evaluation

Antenna Gain

5G Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.3 dBi or 2.14 dBi in linear scale.

Output Power into Antenna & RF Exposure Evaluation Distance:

IEEE 802.11ax (80MHz) (ANT 0+1+2+3+4+5+6+8)			
WLAN Function			
Channel	Channel Frequency (MHz)	Output Power to Antenna (mW)	Power Density at R = 20 cm (mW/cm ²)
58	5290	231.589	0.099
106	5530	225.534	0.096
122	5610	234.855	0.100
138	5690(B3)	235.192	0.100
138	5690(B4)	8.741	0.004

The power density Pd (4th column) at a distance of 20 cm calculated from the Friis transmission formula is far below the limit of 1 mW/cm².