

FCC RF Exposure Exemption report

for

Home Phone

Model No.: B2.0

FCC ID: 2ARIOCC0029

of

Applicant: ClearCaptions LLC

Address: 3026 Owen Drive, Suite 111, Antioch, TN 37013 USA

Tested and Prepared

by

Worldwide Testing Services (Taiwan) Co., Ltd.

FCC Registration No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634



Report No.: W6M22507-24607-EE

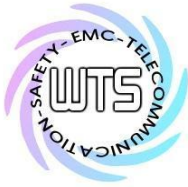
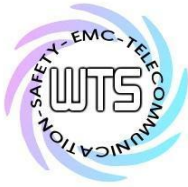


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Worldwide Testing Services(Taiwan) Co., Ltd.

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1 General Information

1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The complexity of the technical specifications, however, means that full and thorough testing is impractical for both technical and economic reasons.

Furthermore, there is no guarantee that a test sample which has passed all the relevant tests conforms to a specification.

Neither is there any guarantee that such a test sample will interwork with other genuinely open systems.

The existence of the tests nevertheless provides the confidence that the test sample possesses the qualities as maintained and that its performance generally conforms to representative cases of communications equipment.

Laboratory disclaimer-

1. The test results of this test report relate exclusively to the item tested as specified in 1.5.
2. The test report may only be reproduced or published in full.
3. Reproduction or publication of extracts from the report requires the prior written approval of the Worldwide Testing Services(Taiwan) Co., Ltd.
4. Antenna gain is provided by applicant and laboratory issue relevant data and results.

Tester:

September 15, 2025

Sora Kuo

Sora

Date

WTS-Lab.

Name

Signature

Technical responsibility for area of testing:

September 15, 2025

Kevin Wang

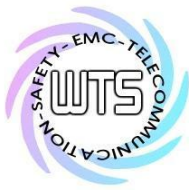
Kevin Wang

Date

WTS

Name

Signature



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1.2 Testing laboratory

1.2.1 Location

10m OATS

No.5-1, Lishui, Shuang Sing Village, Wanli Dist.,
New Taipei City 207, Taiwan (R.O.C.)

3 meter semi-anechoic chamber

No. 99, Sec. 1, Balian Rd., Xizhi Dist.,
New Taipei City 221032, Taiwan (R.O.C.)

Worldwide Testing Services (Taiwan) Co., Ltd.

6F., No. 58, Ln. 188, Ruiguang Rd., Neihu Dist.,

Taipei City 114, Taiwan (R.O.C.)

Tel: 886-2-6606-8877

1.2.2 Details of accreditation status

Accredited testing laboratory

FCC filed test laboratory Reg. No.: TW1072, TW1140, TW1146, TW1477, TW0037

Industry Canada filed test laboratory Reg. No.: 20037, 31634

Test location, where different from Worldwide Testing Services (Taiwan) Co., Ltd. :

Name: ./.

Accredited no.: ./.

Street: ./.

Town: ./.

Country: ./.

1.3 Application details

Approval holder

Name: ClearCaptions LLC

Street: 3026 Owen Drive, Suite 111, Antioch,

Town: TN 37013

Country: USA

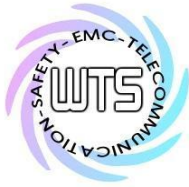
Manufacturer: (if applicable)

Name: VVDN Technologies Pvt. Ltd

Street: GIP, Plot No: CP-07, Sector-8, IMT Manesar, Gurugram,

Town: Haryana - 122050

Country: India



Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M22507-24607-EE

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Date of receipt of test item: July 25, 2025

Date of test: from July 28, 2025 to August 18, 2025

1.4 General information of Test item

Type of test item: Home Phone

Model no.: B2.0

Multi-listing model no.: ./.

Brand name: ClearCaptions

Power supply: Adaptor (Model number: A241-1202000U)
(I/P: 100-240V~ 50/60Hz 0.8A
O/P: 12.0, 2.0A)

Type of antenna: PIFA antenna

Antenna gain: WLAN 2.4G: 3dBi (for ANT1/ANT2)

WLAN 5G: 4dBi (for ANT1/ANT2)

Directional gain: WLAN 2.4G: 6.01dBi

WLAN 5G: 7.01dBi

Technical data:

Band	Mode	Channel	Conducted Power (dBm)
2.4GHz	802.11b	Ch 1 : 2412 MHz	12.62
		Ch 6 : 2437 MHz	13.02
		Ch 11 : 2462 MHz	13.31
	802.11g	Ch 1 : 2412 MHz	12.89
		Ch 6 : 2437 MHz	13.31
		Ch 11 : 2462 MHz	13.35
	802.11n20MHz	Ch 1 : 2412 MHz	15.55
		Ch 6 : 2437 MHz	15.50
		Ch 11 : 2462 MHz	15.65
	802.11n40MHz	Ch 1 : 2422 MHz	14.62
		Ch 4 : 2437 MHz	16.75
		Ch 7 : 2452 MHz	16.50



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Bluetooth

Normal & EDR

Band	Mode	Channel	Conducted Power (dBm)
2.4GHz	BR	Ch 0 : 2402 MHz	17.55
		Ch 39 : 2441 MHz	17.92
		Ch 78 : 2480 MHz	16.55
	EDR	Ch 0 : 2402 MHz	17.33
		Ch 39 : 2441 MHz	17.70
		Ch 78 : 2480 MHz	16.32

Low Energy

Band	Mode	Channel	Power (dBm)
2.4GHz	BLE 1M	Ch 0 : 2402 MHz	-29.93
		Ch 19 : 2440 MHz	-30.37
		Ch 39 : 2480 MHz	-28.61
	BLE 2M	Ch 0 : 2402 MHz	22.10
		Ch 19 : 2440 MHz	22.19
		Ch 39 : 2480 MHz	21.42

Band	Mode	Channel	Conducted Power (dBm)
NII-1	802.11a	Ch 36 : 5180 MHz	12.38
		Ch 44 : 5220 MHz	12.39
		Ch 48 : 5240 MHz	12.39
	802.11n 20MHz	Ch 36 : 5180 MHz	14.02
		Ch 44 : 5220 MHz	14.34
		Ch 48 : 5240 MHz	14.69
	802.11n 40MHz	Ch 38 : 5190 MHz	15.22
		Ch 46 : 5230 MHz	15.58
	802.11ac 80MHz	Ch 42 : 5210 MHz	14.99
NII-2A	802.11a	Ch 52 : 5260 MHz	12.09
		Ch 60 : 5300 MHz	12.26
		Ch 64 : 5320 MHz	12.24
	802.11n 20MHz	Ch 52 : 5260 MHz	14.73
		Ch 60 : 5300 MHz	14.84
		Ch 64 : 5320 MHz	14.83



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	802.11n 40MHz	Ch 54 : 5270 MHz	15.91
		Ch 62 : 5310 MHz	16.06
	802.11ac 80MHz	Ch 58 : 5290 MHz	15.32

Band	Mode	Channel	Conducted Power (dBm)
NII-2C	802.11a	Ch 100 : 5500 MHz	13.09
		Ch 120 : 5600 MHz	12.15
		Ch 140 : 5700 MHz	12.09
	802.11n 20MHz	Ch 100 : 5500 MHz	14.47
		Ch 120 : 5600 MHz	13.39
		Ch 140 : 5700 MHz	13.01
	802.11n 40MHz	Ch 102 : 5510 MHz	15.62
		Ch 116 : 5590 MHz	14.67
		Ch 134 : 5670 MHz	14.56
	802.11ac 80MHz	Ch 106 : 5530 MHz	14.89
		Ch 122 : 5610 MHz	14.04
NII-3	802.11a	Ch 149 : 5745 MHz	12.25
		Ch 157 : 5785 MHz	12.37
		Ch 165 : 5825 MHz	11.83
	802.11n 20MHz	Ch 149 : 5745 MHz	13.00
		Ch 157 : 5785 MHz	13.07
		Ch 165 : 5825 MHz	12.60
	802.11n 40MHz	Ch 151 : 5755 MHz	14.27
		Ch 159 : 5795 MHz	14.21
	802.11ac 80MHz	Ch 155: 5775 MHz	13.79



Worldwide Testing Services(Taiwan) Co., Ltd.

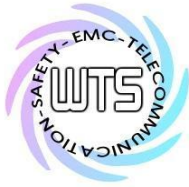
Registration number: W6M22507-24607-EE

FCC ID: 2ARIOCC0029

Band	Mode	Channel	Conducted Power (dBm)
NII-2C	802.11a	Ch 100 : 5500 MHz	10.50
		Ch 120 : 5600 MHz	13.94
		Ch 140 : 5700 MHz	11.27
	802.11n 20MHz	Ch 100 : 5500 MHz	8.28
		Ch 120 : 5600 MHz	13.89
		Ch 140 : 5700 MHz	9.35
	802.11n 40MHz	Ch 102 : 5510 MHz	6.50
		Ch 116 : 5590 MHz	11.10
		Ch 134 : 5670 MHz	11.28
	802.11ac 80MHz	Ch 106 : 5530 MHz	7.71
		Ch 122 : 5610 MHz	10.00
NII-3	802.11a	Ch 149 : 5745 MHz	14.07
		Ch 157 : 5785 MHz	14.06
		Ch 165 : 5825 MHz	14.10
	802.11n 20MHz	Ch 149 : 5745 MHz	13.92
		Ch 157 : 5785 MHz	13.99
		Ch 165 : 5825 MHz	13.81
	802.11n 40MHz	Ch 151 : 5755 MHz	11.32
		Ch 159 : 5795 MHz	11.30
	802.11ac 80MHz	Ch 155: 5775 MHz	9.91

Operation modes: Duplex
Modulation type: DSSS/OFDM
Sample no.: #02
Special statement: ./.
Classification:

Fixed Device	☒
Mobile Device (Human Body distance > 20cm)	☐
Portable Device (Human Body distance < 20cm)	☐



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1.5 Duty cycle and factor

The duty factor is computed as $[10 \log (1 / D)]$, where D is the duty cycle.

WLAN 2.4G

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11b	1.434	1.439	99.65%	0.02	0.01
802.11g	2.122	2.127	99.76%	0.01	0.01
802.11n 20MHz	5.372	5.381	99.83%	0.01	0.01
802.11n 40MHz	5.391	5.4	99.83%	0.01	0.01

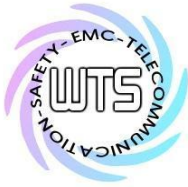
Bluetooth

Low Energy

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	1/T - VBW (kHz)
BLE 1M	0.401	0.625	64.16%	2.49
BLE 2M	0.224	0.625	35.84%	4.46

WLAN 5G

Mode	T _{on} (ms)	T _{on} +T _{off} (ms)	Duty cycle (%)	Duty Factor (dB)	1/T - VBW (kHz)
802.11a	2.122	2.127	99.76%	0.01	0.01
802.11n 20MHz	5.397	5.407	99.82%	0.01	0.01
802.11n 40MHz	5.429	5.439	99.82%	0.01	0.01
802.11ac 80MHz	5.439	5.449	99.82%	0.01	0.01

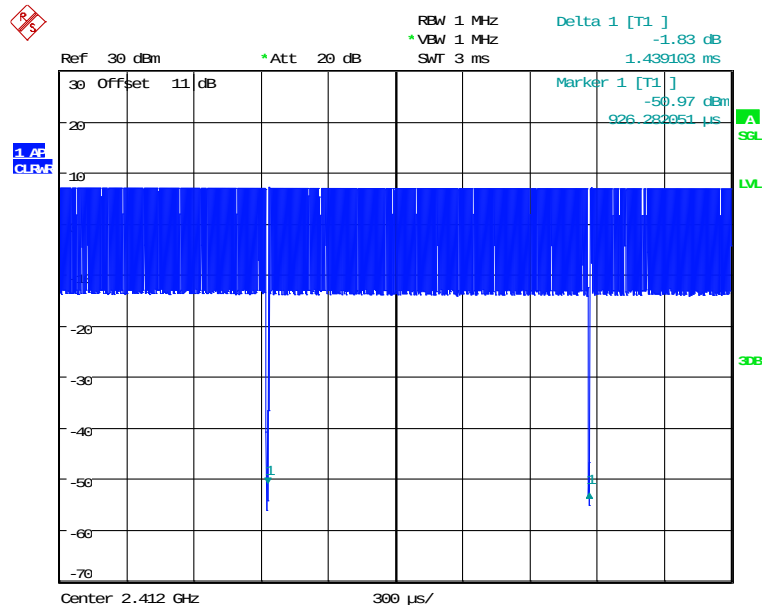


Registration number: W6M22507-24607-EE

FCC ID: 2ARIOCC0029

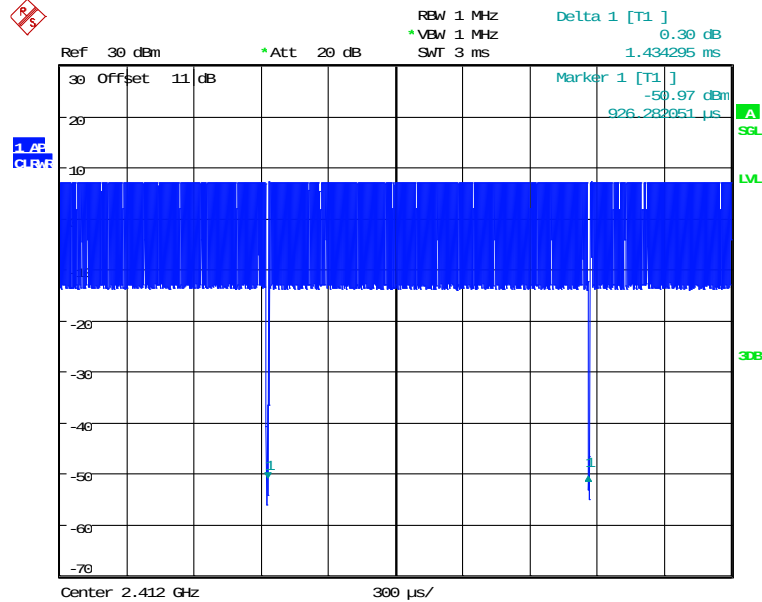
Duty cycle plot

WLAN 2.4G



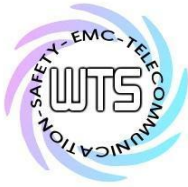
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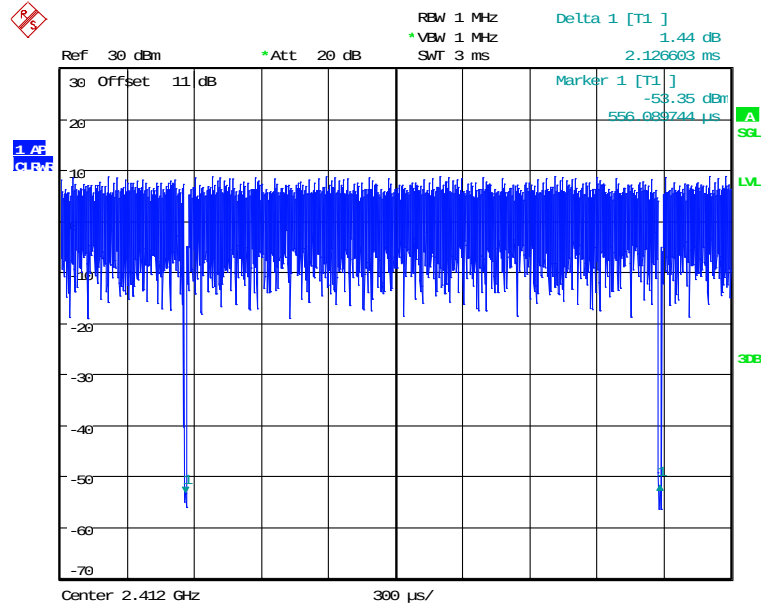


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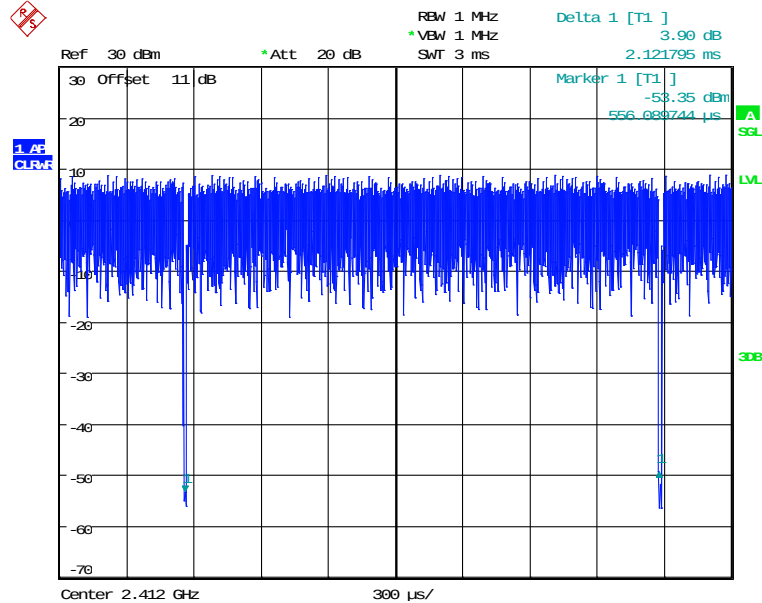
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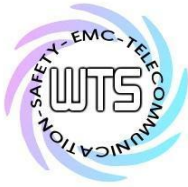
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FCC ID: 2ARIOCC0029



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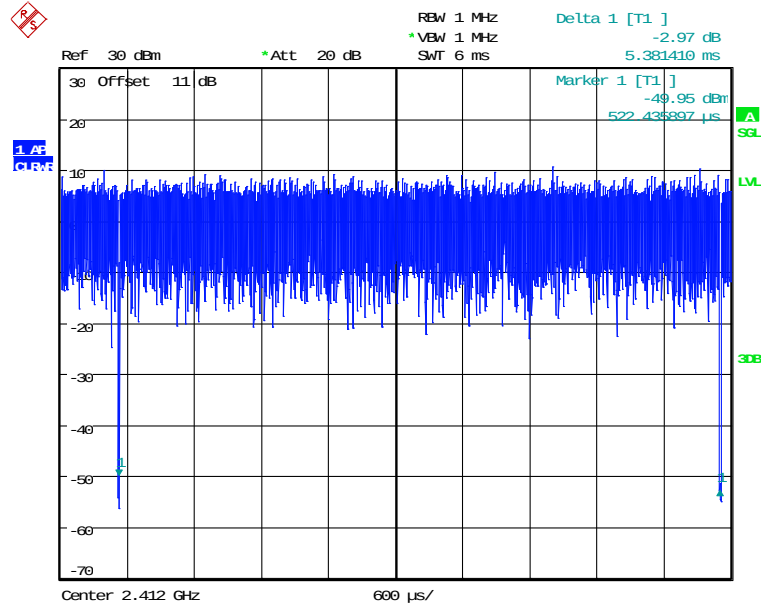


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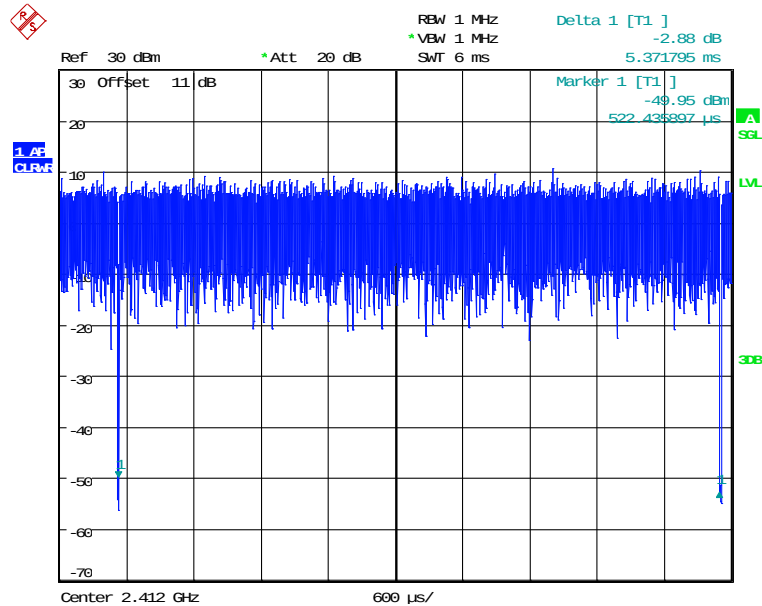


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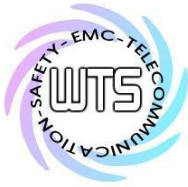
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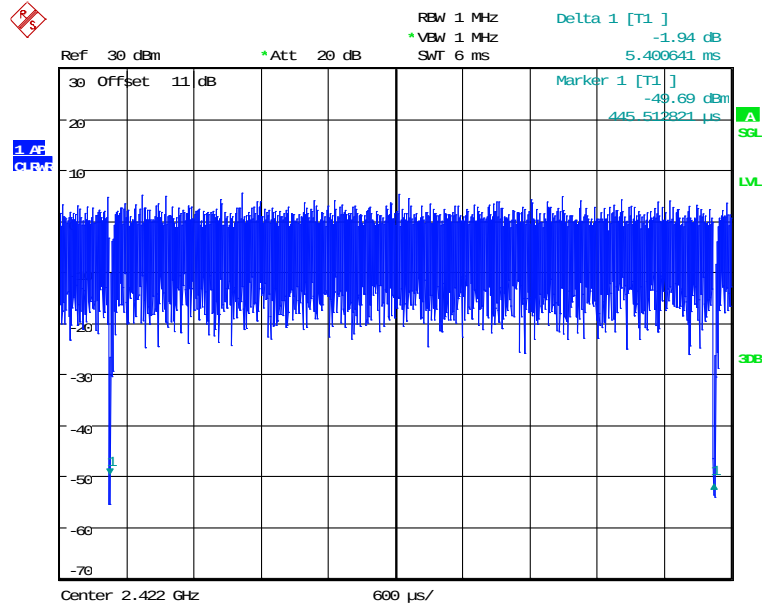


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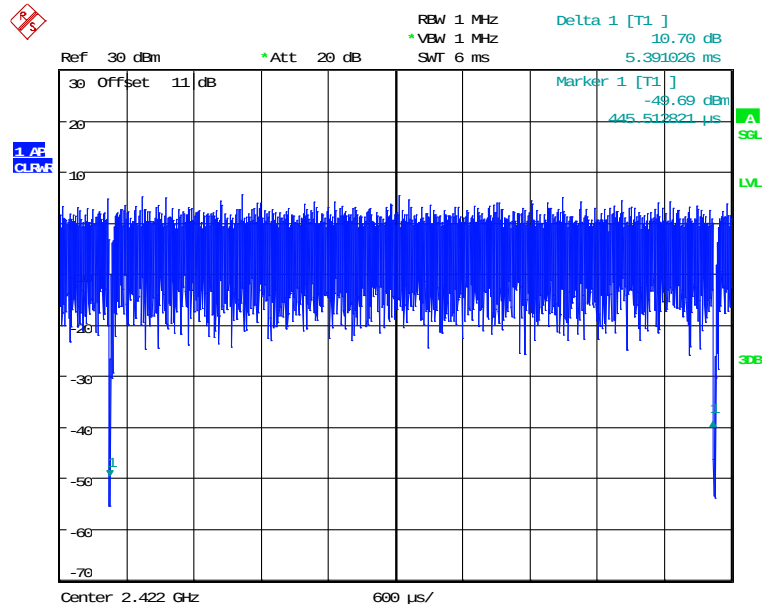


Worldwide Testing Services(Taiwan) Co., Ltd.

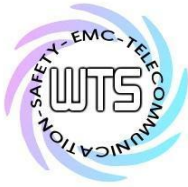
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FCC ID: 2ARIOCC0029



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Date: 6.AUG.2025 16:29:36



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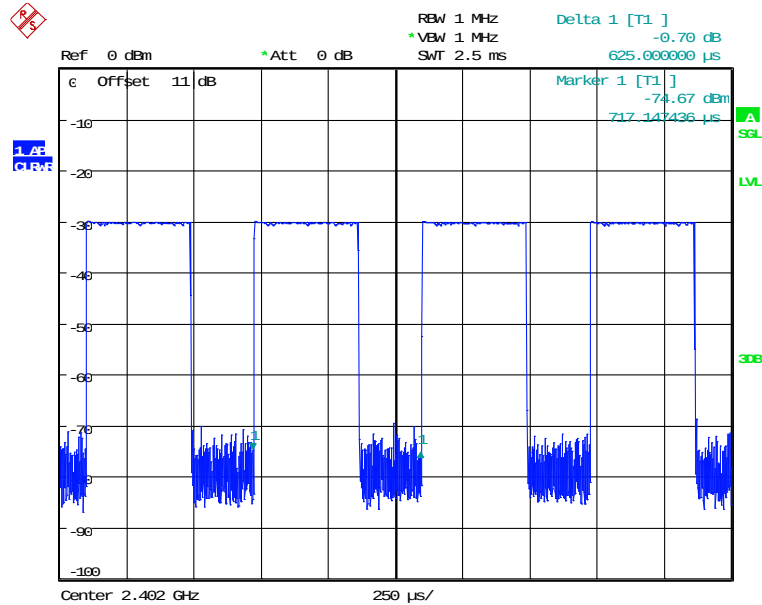
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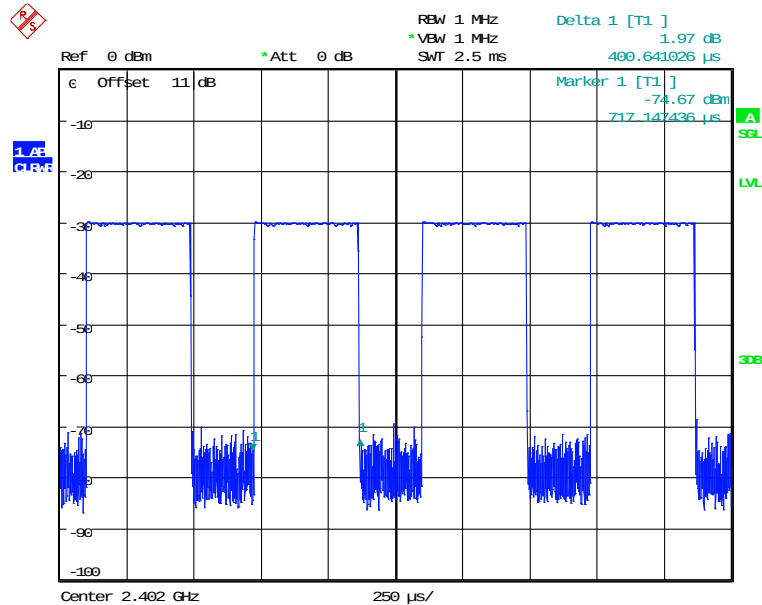
Bluetooth

Low Energy

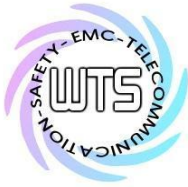
1M



DUTY BLE 1M
Date: 6.AUG.2025 14:09:12



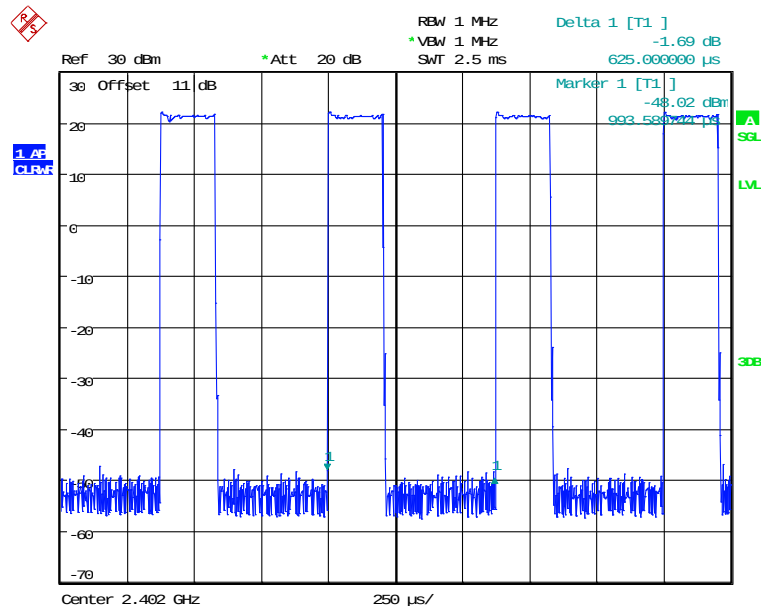
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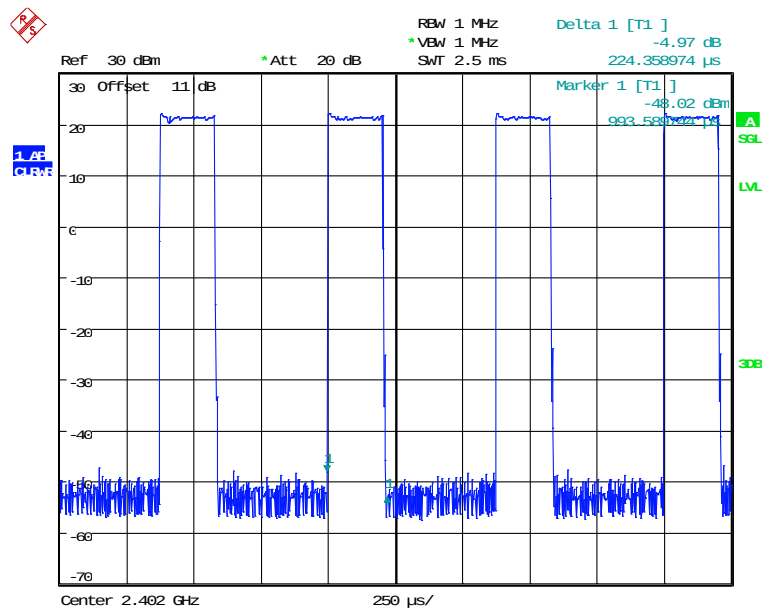
Registration number: W6M22507-24607-EE

FCC ID: 2ARIOCC0029

2M



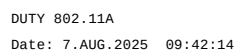
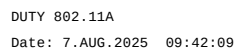
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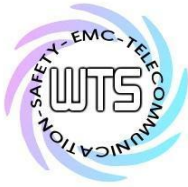


DUTY BLE 2M
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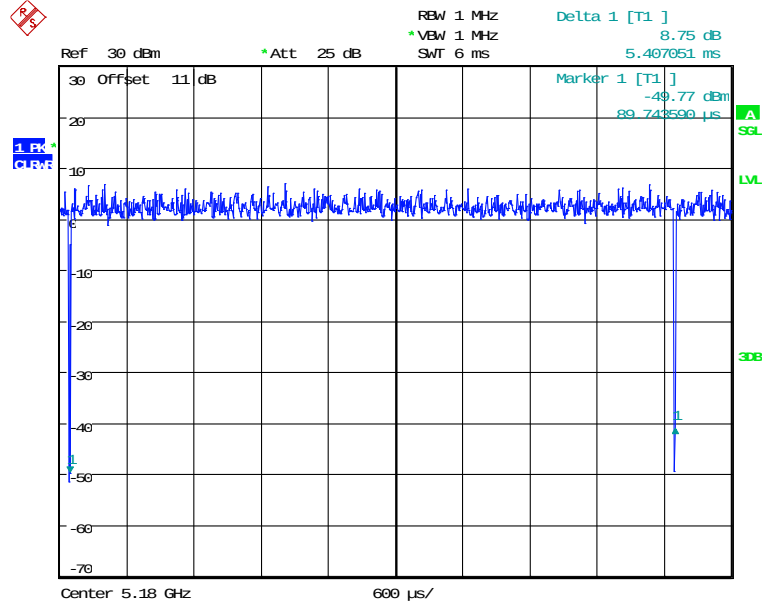


WLAN 5G

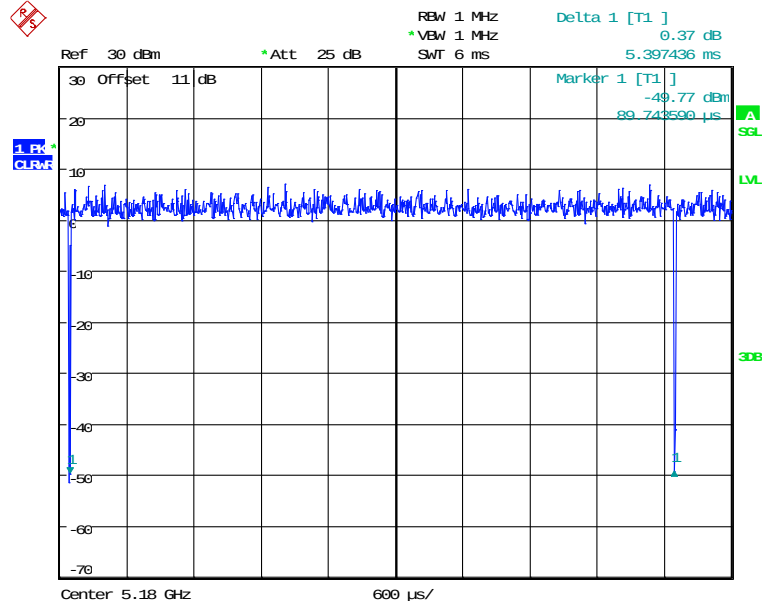




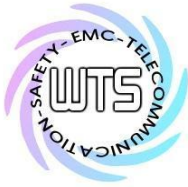
Registration number: W6M22507-24607-EE
FCC ID: 2ARIOCC0029



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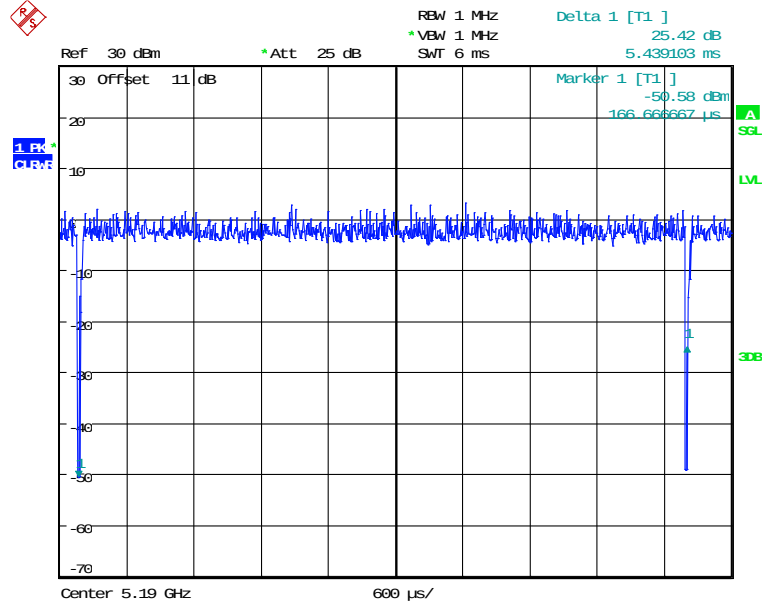


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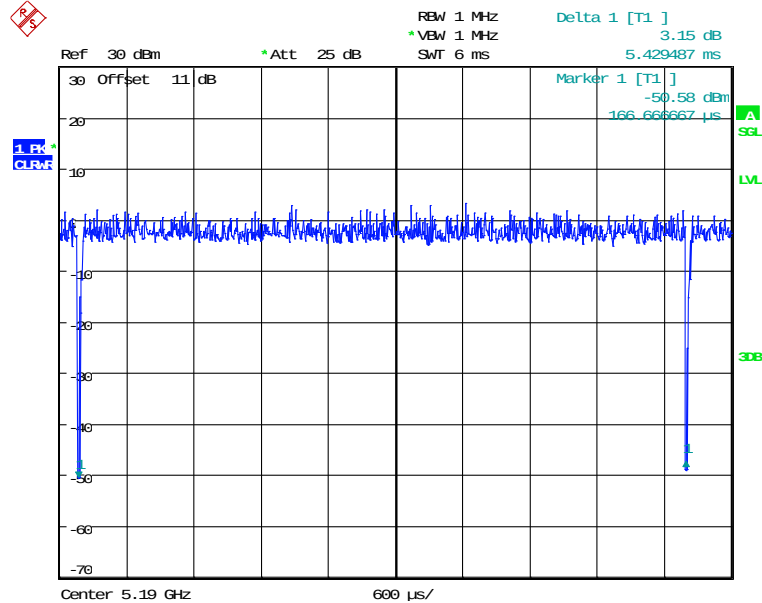


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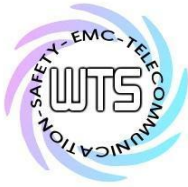
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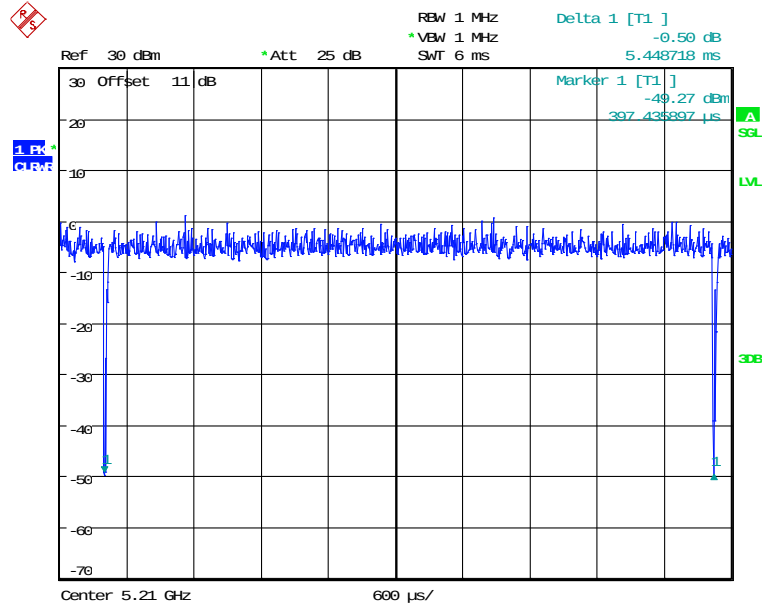
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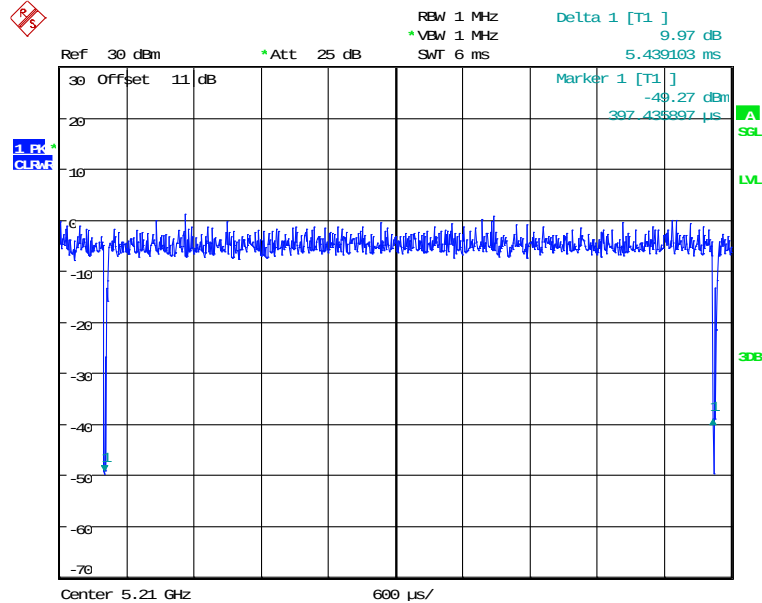
DUTY 802.11N20
Date: 7.AUG.2025 09:52:28



Registration number: W6M22507-24607-EE
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DUTY 802.11AC80
Date: 7.AUG.2025 09:53:28



DUTY 802.11AC80
Date: 7.AUG.2025 09:53:33

1.7 Test standards

47 CFR FCC Part 2.1093

447498 D04 Interim General RF Exposure Guidance v01



Registration number: W6M22507-24607-EE

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2 Test configuration

2.1 Test environment

Relative humidity content: 20 ... 75 %

Air pressure: 86 ... 103 kPa

Extreme conditions parameters: ./.

2.2 Measurement uncertainty

Test item Name	Uncertainty
Estimation Result of Uncertainty of Conducted Output Power Measurement (Peak Output Power (transmitter))	Expanded Uncertainty : 1.63 dB

The decision rule is: Measurement uncertainty is not included in the calculation of test results.



Worldwide Testing Services(Taiwan) Co., Ltd.

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2.3 Test Equipment List

Max output power

Code No.	Test equipment	Mode No.	Serial No.	Brand	Cal. Date	Next Cal. Date
ETSTW-RE 050	Attenuator 10dB	50HF-010-1	None	JFW	2025/2/14	2026/2/13
ETSTW-RE 055	SPECTRUM ANALYZER	FSU 26	200074	R&S	2025/3/5	2026/3/4
ETSTW-RE 099	DC Block	50DB-007-1	None	JFW	2025/2/14	2026/2/13
ETSTW-Cable 030	Microwave Cable	SUCOFLEX 104 (S_Cable 9)	279067	HUBER+SUHNER	2025/2/14	2026/2/13



Registration number: W6M22507-24607-EE

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3 Equivalent Isotropic Radiated Power (EIRP)

3.1 Exemption Limits for Routine Evaluation

according to 47 CFR FCC Part 2 Subpart J, section 2.1091

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20 cm normally can be maintained between the user and the device.

MPE Calculation Method

(A) Limits for Occupational/Controlled Exposure

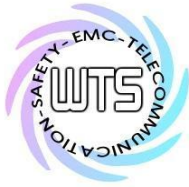
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f ²)*	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6

(B) Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

f = frequency in MHz

*Plane-wave equivalent power density



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E = Electric field (V/m) P = output power (W) G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{3770 \times d^2}$$

mW/cm².

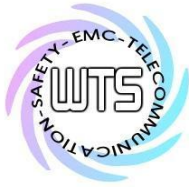
WLAN 2.4G

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11b	Ch 1 : 2412 MHz	12.62	3	--	1	--
	Ch 6 : 2437 MHz	13.02	3	--	1	--
	Ch 11 : 2462 MHz	13.31	3	0.0085	1	0.0085
802.11g	Ch 1 : 2412 MHz	12.89	3	--	1	--
	Ch 6 : 2437 MHz	13.31	3	--	1	--
	Ch 11 : 2462 MHz	13.35	3	0.0086	1	0.0086
802.11 n 20MHz	Ch 1 : 2412 MHz	15.55	6.01	--	1	--
	Ch 6 : 2437 MHz	15.50	6.01	--	1	--
	Ch 11 : 2462 MHz	15.65	6.01	0.0292	1	0.0292
802.11 n 40MHz	Ch 1 : 2422 MHz	14.62	6.01	--	1	--
	Ch 4 : 2437 MHz	16.75	6.01	0.0376	1	0.0376
	Ch 7 : 2452 MHz	16.50	6.01	--	1	--

Bluetooth

Normal & EDR

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
BR	Ch 0 : 2402 MHz	17.55	3	--	1	--
	Ch 39 : 2441 MHz	17.92	3	0.0246	1	0.0246
	Ch 78 : 2480 MHz	16.55	3	--	1	--
EDR	Ch 0 : 2402 MHz	17.33	3	--	1	--
	Ch 39 : 2441 MHz	17.70	3	0.0234	1	0.0234
	Ch 78 : 2480 MHz	16.32	3	--	1	--



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Low Energy

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
BLE 1M	Ch 0 : 2402 MHz	-29.93	3	--	1	--
	Ch 19 : 2440 MHz	-30.37	3	--	1	--
	Ch 39 : 2480 MHz	-28.61	3	--	1	--
BLE 2M	Ch 0 : 2402 MHz	22.10	3	--	1	--
	Ch 19 : 2440 MHz	22.19	3	0.0657	1	0.0657
	Ch 39 : 2480 MHz	21.42	3	--	1	--

WLAN 5G

Band 1

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 36 : 5180 MHz	12.38	4	--	1	--
	Ch 44 : 5220 MHz	12.39	4	0.0087	1	0.0087
	Ch 48 : 5240 MHz	12.39	4	0.0087	1	0.0087
802.11 n 20MHz	Ch 36 : 5180 MHz	14.02	7.01	--	1	--
	Ch 44 : 5220 MHz	14.34	7.01	--	1	--
	Ch 48 : 5240 MHz	14.69	7.01	0.0294	1	0.0294
802.11 n 40MHz	Ch 38 : 5190 MHz	15.22	7.01	--	1	--
	Ch 46 : 5230 MHz	15.58	7.01	0.0361	1	0.0361
802.11 ac 80MHz	Ch 42 : 5210 MHz	14.99	7.01	--	1	--

Band 2

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 52 : 5260 MHz	12.09	4	--	1	--
	Ch 60 : 5300 MHz	12.26	4	0.0084	1	0.0084
	Ch 64 : 5320 MHz	12.24	4	--	1	--
802.11 n 20MHz	Ch 52 : 5260 MHz	14.73	7.01	--	1	--
	Ch 60 : 5300 MHz	14.84	7.01	0.0305	1	0.0305
	Ch 64 : 5320 MHz	14.83	7.01	--	1	--
802.11 n 40MHz	Ch 54 : 5270 MHz	15.91	7.01	--	1	--
	Ch 62 : 5310 MHz	16.06	7.01	0.0403	1	0.0403
802.11 ac 80MHz	Ch 58 : 5290 MHz	15.32	7.01	--	1	--

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Band 3

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 100 : 5500 MHz	13.09	4	0.0102	1	0.0102
	Ch 120 : 5600 MHz	12.15	4	--	1	--
	Ch 140 : 5700 MHz	12.09	4	--	1	--
802.11 n 20MHz	Ch 100 : 5500 MHz	14.47	7.01	0.028	1	0.028
	Ch 120 : 5600 MHz	13.39	7.01	--	1	--
	Ch 140 : 5700 MHz	13.01	7.01	--	1	--
802.11 n 40MHz	Ch 102 : 5510 MHz	15.62	7.01	0.0365	1	0.0365
	Ch 116 : 5590 MHz	14.67	7.01	--	1	--
	Ch 134 : 5670 MHz	14.56	7.01	--	1	--
802.11 ac 80MHz	Ch 106 : 5530 MHz	14.89	7.01	0.0308	1	0.0308
	Ch 122 : 5610 MHz	14.04	7.01	--	1	--

Band 4

Mode	Channel/Frequency (MHz)	Conducted Power (dBm)	Antenna Gain (dBi)	Power density (mW/cm ²)	Limit (mW/cm ²)	Ratio
802.11a	Ch 149 : 5745 MHz	12.25	4	--	1	--
	Ch 157 : 5785 MHz	12.37	4	0.0086	1	0.0086
	Ch 165 : 5825 MHz	11.83	4	--	1	--
802.11 n 20MHz	Ch 149 : 5745 MHz	13.00	7.01	--	1	--
	Ch 157 : 5785 MHz	13.07	7.01	0.0203	1	0.0203
	Ch 165 : 5825 MHz	12.60	7.01	--	1	--
802.11 n 40MHz	Ch 151 : 5755 MHz	14.27	7.01	0.0267	1	0.0267
	Ch 159 : 5795 MHz	14.21	7.01	--	1	--
802.11 ac 80MHz	Ch 155: 5775 MHz	13.79	7.01	--	1	--

From the peak EUT RF output power, the minimum mobile separation distance, $d = 20$ cm, as well as the gain of the used antenna, the RF power density can be obtained.

Simultaneous evaluation-

$$0.0376 \text{ (WLAN 2.4G)} + 0.0657 \text{ (BT)} = 0.1033 < 1$$

Simultaneous evaluation-

$$0.0403 \text{ (WLAN 5G)} + 0.0657 \text{ (BT)} = 0.106 < 1$$