APPLICANT

Report No.: FA820812

: Tabletop Media, LLC d/b/a Ziosk

RF Exposure Evaluation Report

EQUIPMENT : Ziosk Aurizon

BRAND NAME : Ziosk

MODEL NAME : Z500

FCC ID : XOX-Z500

STANDARD : 47 CFR Part 2.1091

We, Sporton International (Shenzhen) Inc., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1091, and pass the limit. Without written approval of Sporton International (Shenzhen) Inc., the test report shall not be reproduced except in full.

Mark Qu

TESTING

NVLAP LAB CODE 600156-0

Approved by: Mark Qu / Manager

Sporton International (Shenzhen) Inc.

1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China

Sporton International (Shenzhen) Inc.

TEL: +86-755-8637-9589 FAX: +86-755-8637-9595 FCC ID: XOX-Z500 Page Number : 1 of 11
Report Issued Date : Apr. 16, 2018

Report Version : Rev. 01

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Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA820812	Rev. 01	Initial issue of report	Apr. 16, 2018

Sporton International (Shenzhen) Inc.

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1. Administration Data

1.1. <u>Testing Laboratory</u>

Testing Laboratory							
Test Site Sporton International (Shenzhen) Inc.							
Test Site Location	1/F, 2/F, Bldg 5, Shiling Industrial Zone, Xinwei Village, Xili, Nanshan Shenzhen City Guangdong Province 518055 China TEL: +86-755-8637-9589 FAX: +86-755-8637-9595						

Applicant						
Company Name	Tabletop Media, LLC d/b/a Ziosk					
Address	12404 Park Central Dr, Suite 350, Dallas, TX 75251					

Manufacturer Manufacturer								
Company Name	SMTC de Chihuahua SA. DE C.V.							
Address	Washington 3701 building 20. Parque Industrial Las Americas, Chihuahua, Chih. 31200							

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2. <u>Description of Equipment Under Test (EUT)</u>

	Product Feature & Specification							
EUT Type	Ziosk Aurizon							
Brand Name	Ziosk							
Model Name	Z500							
FCC ID	XOX-Z500							
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz WLAN 5.5GHz Band: 5500 MHz ~ 5700 MHz WLAN 5.5GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz NFC: 13.56 MHz							
Mode	802.11b/g/n HT20/HT40 802.11a/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth v3.0+EDR/ Bluetooth v4.0 LE/ Bluetooth v4.1 LE NFC:ASK							
HW Version	DV2							
SW Version	Android 5.1.1							
EUT Stage	Identical Prototype							

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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3. Maximum RF average output power among production units

<Bluetooth>

	Average Power (dBm)							
Band / Mode	Band / Mode BR / EDR							
	1M	2M	3M	GFSK				
Bluetooth	3.00	7.50						

<WLAN 2.4GHz >

	Mada		Maximum Average Power (dBm)				
Mode			Ant 1	Ant 2	Ant 1+2		
		CH01	20.00	20.00			
	802.11b	CH06	21.00	21.00			
		CH11	20.00	20.00			
	802	.11g	18.50	18.50			
2.4GHz WLAN	802.11n-HT20	CH01	18.50	18.50	19.00		
(DTS)		CH06	18.50	18.50	21.00		
		CH11	18.50	18.50	19.50		
		CH03	18.00	18.00	18.00		
	802.11n-HT40	802.11n-HT40 CH06		18.00	21.00		
		CH09	18.00	18.00	16.00		

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<WLAN 5GHz >

	Mada		Maximum Average Power (dBm)				
	Mode		Ant 1	Ant 2	Ant 1+2		
	802.	11a	20.50	20.50			
	802.11n	-HT20	16.50	16.50	19.50		
5.2GHz WLAN 802.11n-HT40		-HT40	16.00	16.00	19.00		
(U-NII-1)	802.11ac	802.11ac-VHT20		16.50	19.50		
	802.11ac	-VHT40	16.00	16.00	19.00		
	802.11ac	-VHT80	14.50	14.50	17.50		
		CH52	21.00	21.00			
	802.11a	CH60	21.00	21.00			
		CH64	18.00	18.00			
5.3GHz WLAN	802.11n	-HT20	16.50	16.50	19.50		
(U-NII-2A)	(U-NII-2A) 802.11n-HT40 802.11ac-VHT20 802.11ac-VHT40		2A) 802.11n-HT40		16.50	16.50	19.50
			802.11ac-VHT20		16.50	16.50	19.50
			16.00	16.00	19.00		
	802.11ac	-VHT80	14.50	14.50	17.50		
	802.	11a	18.00	18.00			
	802.11n	-HT20	16.50	16.50	19.50		
5.5GHz WLAN	802.11n	-HT40	16.00	16.00	19.00		
(U-NII-2C)	802.11ac	-VHT20	16.00	16.00	19.00		
	802.11ac	-VHT40	16.00	16.00	19.00		
	802.11ac	-VHT80	14.00	14.00	17.00		
	802.11a		21.00	21.00			
	802.11n-HT20 AN 802.11n-HT40		16.00	16.00	19.00		
5.8GHz WLAN			16.00	16.00	19.00		
(U-NII-3)	802.11ac	-VHT20	16.00	16.00	19.00		
	802.11ac	-VHT40	16.00	16.00	19.00		
	802.11ac	-VHT80	14.00	14.00	17.00		

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4. RF Exposure Limit Introduction

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
500 St.	(A) Limits for O	ccupational/Controlled Expos	sures	W
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/	f 4.89/1	*(900/f2)	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled I	Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/	f 2.19/1	*(180/f2)	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

The MPE was calculated at 20 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S = Power Density

P = Output Power at Antenna Terminals

G = Gain of Transmit Antenna (linear gain)

R = Distance from Transmitting Antenna

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5. Radio Frequency Radiation Exposure Evaluation

5.1. Standalone Power Density Calculation

Ant.	Band	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Maximum EIRP (dBm)	Maximum EIRP (W)	Average EIRP (mW)	Power Density at 20cm (mW/cm2)	Limit (mW/cm2)	Power Density / Limit
1	WLAN2.4GHz 802.11b	2412	2.21	21.00	23.21	0.21	209.41	0.042	1.00	0.042
1	WLAN2.4GHz 802.11g	2412	2.21	18.50	20.71	0.12	117.76	0.023	1.00	0.023
1	WLAN2.4GHz 802.11n-HT20	2412	2.21	18.50	20.71	0.12	117.76	0.023	1.00	0.023
1	WLAN2.4GHz 802.11n-HT40	2412	2.21	18.00	20.21	0.10	104.95	0.021	1.00	0.021
2	WLAN2.4GHz 802.11b	2412	1.51	21.00	22.51	0.18	178.24	0.035	1.00	0.035
2	WLAN2.4GHz 802.11g	2412	1.51	18.50	20.01	0.10	100.23	0.020	1.00	0.020
2	WLAN2.4GHz 802.11n-HT20	2412	1.51	18.50	20.01	0.10	100.23	0.020	1.00	0.020
2	WLAN2.4GHz 802.11n-HT40	2412	1.51	18.00	19.51	0.09	89.33	0.018	1.00	0.018
1+2	WLAN2.4GHz 802.11n-HT20	2412	2.21	21.00	23.21	0.21	209.41	0.042	1.00	0.042
1+2	WLAN2.4GHz 802.11n-HT40	2412	2.21	21.00	23.21	0.21	209.41	0.042	1.00	0.042
1	WLAN5.2GHz 802.11a	5180	2.77	20.50	23.27	0.21	212.32	0.042	1.00	0.042
1	WLAN5.3GHz 802.11a	5260	3.40	21.00	24.40	0.28	275.42	0.055	1.00	0.055
1	WLAN5.5GHz 802.11a	5500	3.06	18.00	21.06	0.13	127.64	0.025	1.00	0.025
1	WLAN5.8GHz 802.11a	5700	2.46	21.00	23.46	0.22	221.82	0.044	1.00	0.044
1	WLAN5.2GHz 802.11n-HT20	5180	2.77	16.50	19.27	0.08	84.53	0.017	1.00	0.017
1	WLAN5.3GHz 802.11n-HT20	5260	3.40	16.50	19.90	0.10	97.72	0.019	1.00	0.019
1	WLAN5.5GHz 802.11n-HT20	5500	3.06	16.50	19.56	0.09	90.36	0.018	1.00	0.018
1	WLAN5.8GHz 802.11n-HT20	5700	2.46	16.00	18.46	0.07	70.15	0.014	1.00	0.014
1	WLAN5.2GHz 802.11n-HT40	5180	2.77	16.00	18.77	0.08	75.34	0.015	1.00	0.015
1	WLAN5.3GHz 802.11n-HT40	5260	3.40	16.50	19.90	0.10	97.72	0.019	1.00	0.019
1	WLAN5.5GHz 802.11n-HT40	5500	3.06	16.00	19.06	0.08	80.54	0.016	1.00	0.016
1	WLAN5.8GHz 802.11n-HT40	5700	2.46	16.00	18.46	0.07	70.15	0.014	1.00	0.014
1	WLAN5.2GHz 802.11ac VHT20	5180	2.77	16.50	19.27	0.08	84.53	0.017	1.00	0.017
1	WLAN5.3GHz 802.11ac VHT20	5260	3.40	16.50	19.90	0.10	97.72	0.019	1.00	0.019
1	WLAN5.5GHz 802.11ac VHT20	5500	3.06	16.00	19.06	0.08	80.54	0.016	1.00	0.016
1	WLAN5.8GHz 802.11ac VHT20	5700	2.46	16.00	18.46	0.07	70.15	0.014	1.00	0.014
1	WLAN5.2GHz 802.11ac VHT40	5180	2.77	16.00	18.77	0.08	75.34	0.015	1.00	0.015
1	WLAN5.3GHz 802.11ac VHT40	5260	3.40	16.00	19.40	0.09	87.10	0.017	1.00	0.017
1	WLAN5.5GHz 802.11ac VHT40	5500	3.06	16.00	19.06	0.08	80.54	0.016	1.00	0.016
1	WLAN5.8GHz 802.11ac VHT40	5700	2.46	16.00	18.46	0.07	70.15	0.014	1.00	0.014
1	WLAN5.2GHz 802.11ac VHT80	5180	2.77	14.50	17.27	0.05	53.33	0.011	1.00	0.011
1	WLAN5.3GHz 802.11ac VHT80	5260	3.40	14.50	17.90	0.06	61.66	0.012	1.00	0.012
1	WLAN5.5GHz 802.11ac VHT80	5500	3.06	14.00	17.06	0.05	50.82	0.010	1.00	0.010
1	WLAN5.8GHz 802.11ac VHT80	5700	2.46	14.00	16.46	0.04	44.26	0.009	1.00	0.009

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Power Powe									Power		_
WLANS.3GHz 802.11n	A made	Donal	Frequency	Antenna	Maximum	Maximum	Maximum	Average		Limit	Power
WLANS.2GHz 802.11a	Ant.	Band							20cm	(mW/cm2)	-
WLANS.5GHz 802.11a	_			· · · · ·							
2											
2											
WLANS.5GHz 802.11n-HT20											
WLANS.5GHz 802.11n-HT20											
WLANS.5GHz 802.11n-HT20								75.34			
2 WLANS.6GHz 802.11n-HT40 5180 2.27 16.00 18.27 0.07 67.14 0.013 1.00 0.019 2 WLANS.3GHz 802.11n-HT40 5260 2.62 16.50 19.12 0.08 81.66 0.016 1.00 0.016 2 WLANS.5GHz 802.11n-HT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.5GHz 802.11n-HT40 5500 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.018 2 WLANS.5GHz 802.11n-HT40 5500 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLANS.2GHz 802.11ac VHT20 5180 2.27 16.50 18.77 0.08 75.34 0.015 1.00 0.015 2 WLANS.5GHz 802.11ac VHT20 5500 3.49 16.00 19.69 0.09 93.11 0.019 1.00 0.015 2 WLANS.5GHz 802.11ac VHT20 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.016 2 WLANS.5GHz 802.11ac VHT20 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.016 2 WLANS.5GHz 802.11ac VHT20 5500 3.69 16.00 19.49 0.09 93.11 0.019 1.00 0.016 2 WLANS.5GHz 802.11ac VHT20 5500 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.5GHz 802.11ac VHT40 5500 3.49 16.00 18.27 0.07 67.14 0.013 1.00 0.013 2 WLANS.5GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.69 0.09 93.11 0.00 0.019 1.00 0.019 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.69 0.09 93.11 0.00 0.019 1.00 0.019 2 WLANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.69 0.09 93.11 0.00 0.019 1.00 0.0	_					_					
WLANS.2GHz 802.11n-HT40											
VILANS.5GHz 802.11n-HT40 5260 2.62 16.50 19.12 0.08 81.66 0.016 1.00 0.016 2 WILANS.5GHz 802.11n-HT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WILANS.8GHz 802.11n-HT40 5700 3.69 16.00 19.69 0.09 33.11 0.019 1.00 0.015 2 WILANS.5GHz 802.11ac VHT20 5180 2.27 16.50 18.77 0.08 75.34 0.015 1.00 0.015 2 WILANS.5GHz 802.11ac VHT20 5260 2.62 16.50 19.12 0.08 81.66 0.016 1.00 0.016 2 WILANS.5GHz 802.11ac VHT20 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.016 2 WILANS.5GHz 802.11ac VHT20 5500 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WILANS.5GHz 802.11ac VHT40 5560 2.62 16.50 18.27 0.07 67.14 0.013 1.00 0.013 2 WILANS.5GHz 802.11ac VHT40 5560 2.62 16.50 19.49 0.09 88.92 0.018 1.00 0.013 2 WILANS.5GHz 802.11ac VHT40 5560 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WILANS.5GHz 802.11ac VHT40 5500 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WILANS.5GHz 802.11ac VHT40 5700 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WILANS.5GHz 802.11ac VHT80 5780 2.62 14.50 16.77 0.05 47.53 0.009 1.00 0.009 2 WILANS.5GHz 802.11ac VHT80 5260 2.62 14.50 16.77 0.05 47.53 0.009 1.00 0.019 2 WILANS.5GHz 802.11ac VHT80 5560 3.49 14.00 17.69 0.06 58.75 0.011 1.00 0.011 1.00 0.011 1.00 0.011 1.00 0.011 1.00 0.011 1.00 0.011 1.00 0.011 1.00 0.011 1.00 0.012 WILANS.5GHz 802.11ac VHT80 5500 3.49 14.00 17.69 0.06 58.75 0.012 1.00 0.034 1.20 WILANS.5GHz 802.11n-HT20 5700 3.69 14.00 17.69 0.06 58.75 0.012 1.00 0.034 1.20 WILANS.5GHz 802.11n-HT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.034 1.20 WILANS.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1.20 WILANS.5G											
WLANS.5GHz 802.11n-HT40											
2 WLANS.8GHz 802.11n-HT40 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLANS.2GHz 802.11ac VHT20 5180 2.27 16.50 18.77 0.08 75.34 0.016 1.00 0.016 2 WLANS.3GHz 802.11ac VHT20 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.2GHz 802.11ac VHT40 5180 2.27 16.00 19.69 0.09 93.11 0.019 1.00 0.018 2 WLANS.3GHz 802.11ac VHT40 5180 2.27 16.00 18.62 0.07 67.14 0.013 1.00 0.013 2 WLANS.3GHz 802.11ac VHT40 5500 3.49 16.00 18.62 0.07 67.14 0.013 1.00 0.014 2 WLANS.3GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.014 2 WLANS.3GHz 802.11a		WLAN5.3GHz 802.11n-HT40			16.50						
2 WLANS.2GHz 802.11ac VHT20 5180 2.27 16.50 18.77 0.08 75.34 0.015 1.00 0.015 2 WLANS.3GHz 802.11ac VHT20 5260 2.62 16.50 19.12 0.08 81.66 0.016 1.00 0.016 2 WLANS.6GHz 802.11ac VHT20 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.6GHz 802.11ac VHT40 5500 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.018 2 WLANS.2GHz 802.11ac VHT40 5560 2.62 16.00 18.27 0.07 67.14 0.013 1.00 0.013 2 WLANS.6GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 93.11 0.019 1.00 0.018 2 WLANS.6GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.009 2 WLANS.5GHz 802.1		WLAN5.5GHz 802.11n-HT40		3.49	16.00	19.49	0.09	88.92	0.018		
2 WLANS.3GHz 802.11ac VHTZ0 5260 2.62 16.50 19.12 0.08 81.66 0.016 1.00 0.016 2 WLANS.5GHz 802.11ac VHTZ0 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.019 2 WLANS.2GHz 802.11ac VHT40 5700 3.69 16.00 18.27 0.07 67.14 0.013 1.00 0.013 2 WLANS.2GHz 802.11ac VHT40 5260 2.62 16.00 18.27 0.07 67.14 0.013 1.00 0.013 2 WLANS.5GHz 802.11ac VHT40 5500 3.49 16.00 18.62 0.07 72.78 0.014 1.00 0.014 2 WLANS.5GHz 802.11ac VHT40 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.018 2 WLANS.2GHz 802.11ac VHT80 5500 3.49 14.50 17.72 0.05 47.53 0.009 1.00 0.001 2 WLANS.5GHz 802.1	2	WLAN5.8GHz 802.11n-HT40		3.69	16.00	19.69	0.09				
2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLAN5.2GHz 802.11ac VHT40 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLAN5.2GHz 802.11ac VHT40 560 2.62 16.00 18.62 0.07 72.78 0.014 1.00 0.014 2 WLAN5.3GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.014 2 WLAN5.5GHz 802.11ac VHT40 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.018 2 WLAN5.3GHz 802.11ac VHT80 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.018 2 WLAN5.3GHz 802.11ac VHT80 5700 3.69 14.50 17.12 0.05 51.52 0.010 1.00 0.011 2 WLAN5.3GHz 802.11	2	WLAN5.2GHz 802.11ac VHT20	5180	2.27	16.50	18.77	0.08	75.34	0.015	1.00	0.015
2 WLAN5.8GHz 802.11ac VHT20 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLAN5.2GHz 802.11ac VHT40 5180 2.27 16.00 18.62 0.07 67.14 0.013 1.00 0.013 2 WLAN5.3GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLAN5.5GHz 802.11ac VHT40 5700 3.69 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLAN5.8GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.019 2 WLAN5.3GHz 802.11ac VHT80 5500 3.69 14.50 17.12 0.05 55.22 0.010 1.00 0.019 2 WLAN5.5GHz 802.11ac VHT80 5500 3.69 14.00 17.69 0.06 56.10 0.011 1.00 0.012 1+2 WLAN5.2GHz 802	2	WLAN5.3GHz 802.11ac VHT20	5260	2.62	16.50	19.12	0.08	81.66	0.016	1.00	0.016
2 WLANS.2GHz 802.11ac VHT40 5180 2.27 16.00 18.27 0.07 67.14 0.013 1.00 0.013 2 WLANS.3GHz 802.11ac VHT40 5260 2.62 16.00 18.62 0.07 72.78 0.014 1.00 0.014 2 WLANS.6GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.6GHz 802.11ac VHT80 5500 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLANS.2GHz 802.11ac VHT80 5260 2.62 14.50 17.12 0.05 51.52 0.010 1.00 0.019 2 WLANS.5GHz 802.11ac VHT80 5500 3.49 14.00 17.49 0.06 56.10 0.011 1.00 0.012 1+2 WLANS.3GHz 802.11n-HT20 5500 3.49 14.00 17.49 0.06 58.75 0.012 1.00 0.012 1+2 WLANS.3GHz 802	2	WLAN5.5GHz 802.11ac VHT20	5500	3.49	16.00	19.49	0.09	88.92	0.018	1.00	0.018
2 WLANS.3GHz 802.11ac VHT40 5260 2.62 16.00 18.62 0.07 72.78 0.014 1.00 0.014 2 WLANS.5GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLANS.2GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.019 2 WLANS.2GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.019 2 WLANS.3GHz 802.11ac VHT80 5500 3.49 14.00 17.49 0.06 56.10 0.011 1.00 0.012 1+2 WLANS.2GHz 802.11ac VHT80 5700 3.69 14.00 17.49 0.06 58.75 0.012 1.00 0.012 1+2 WLANS.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLANS.2GHz	2	WLAN5.8GHz 802.11ac VHT20	5700	3.69	16.00	19.69	0.09	93.11	0.019	1.00	0.019
2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 16.00 19.49 0.09 88.92 0.018 1.00 0.018 2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLAN5.2GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.009 2 WLAN5.3GHz 802.11ac VHT80 5260 2.62 14.50 17.12 0.05 51.52 0.010 1.00 0.001 2 WLAN5.3GHz 802.11ac VHT80 5500 3.49 14.00 17.49 0.06 56.10 0.011 1.00 0.012 1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5500 3.49 19.50 22.97 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.5GHz 8	2	WLAN5.2GHz 802.11ac VHT40	5180	2.27	16.00	18.27	0.07	67.14	0.013	1.00	0.013
2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 16.00 19.69 0.09 93.11 0.019 1.00 0.019 2 WLAN5.2GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.009 2 WLAN5.3GHz 802.11ac VHT80 5260 2.62 14.50 17.12 0.05 51.52 0.010 1.00 0.010 2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 14.00 17.69 0.06 56.10 0.011 1.00 0.011 1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5700 3.69 19.00 22.99 0.29 199.07 0.040 1.00 0.037 1+2 WLAN5.3GHz	2	WLAN5.3GHz 802.11ac VHT40	5260	2.62	16.00	18.62	0.07	72.78	0.014	1.00	0.014
2 WLAN5.2GHz 802.11ac VHT80 5180 2.27 14.50 16.77 0.05 47.53 0.009 1.00 0.009 2 WLAN5.3GHz 802.11ac VHT80 5260 2.62 14.50 17.12 0.05 51.52 0.010 1.00 0.010 2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 14.00 17.49 0.06 56.10 0.011 1.00 0.011 2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 14.00 17.69 0.06 58.75 0.012 1.00 0.011 1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.039 1+2 WLAN5.3GHz 802.11n-HT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.3GHz	2	WLAN5.5GHz 802.11ac VHT40	5500	3.49	16.00	19.49	0.09	88.92	0.018	1.00	0.018
2 WLAN5.3GHz 802.11ac VHT80 5260 2.62 14.50 17.12 0.05 51.52 0.010 1.00 0.010 2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 14.00 17.49 0.06 56.10 0.011 1.00 0.011 2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 14.00 17.69 0.06 58.75 0.012 1.00 0.012 1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.039 1+2 WLAN5.3GHz 802.11n-HT20 5500 3.49 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.039 1+2 WLAN5.8GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.039 1+2 WLAN5.5GHz	2	WLAN5.8GHz 802.11ac VHT40	5700	3.69	16.00	19.69	0.09	93.11	0.019	1.00	0.019
2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 14.00 17.49 0.06 56.10 0.011 1.00 0.011 2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 14.00 17.69 0.06 58.75 0.012 1.00 0.012 1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 188.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5500 3.49 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.039 1+2 WLAN5.8GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.037 1.00 0.031 1+2 WLAN5.3GHz 802.11n-HT40 5500 3.49 19.00 22.69 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.3GH	2	WLAN5.2GHz 802.11ac VHT80	5180	2.27	14.50	16.77	0.05	47.53	0.009	1.00	0.009
2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 14.00 17.69 0.06 58.75 0.012 1.00 0.012 1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.039 1+2 WLAN5.8GHz 802.11n-HT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.3GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.039 1+2 WLAN5.3GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.3G	2	WLAN5.3GHz 802.11ac VHT80	5260	2.62	14.50	17.12	0.05	51.52	0.010	1.00	0.010
1+2 WLAN5.2GHz 802.11n-HT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11n-HT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.040 1+2 WLAN5.2GHz 802.11n-HT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.2GHz 802.11n-HT40 5700 3.69 19.00 22.49 0.18 177.42 0.035 1.00 0.037 1+2 WLAN5.3	2	WLAN5.5GHz 802.11ac VHT80	5500	3.49	14.00	17.49	0.06	56.10	0.011	1.00	0.011
1+2 WLAN5.3GHz 802.11n-HT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.040 1+2 WLAN5.8GHz 802.11n-HT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11n-HT40 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.3GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.035 1+2 WLAN5		WLAN5.8GHz 802.11ac VHT80	5700	3.69	14.00	17.69	0.06	58.75	0.012	1.00	0.012
1+2 WLAN5.5GHz 802.11n-HT20 5500 3.49 19.50 22.99 0.20 199.07 0.040 1.00 0.040 1+2 WLAN5.8GHz 802.11n-HT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11n-HT40 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT20 5260 3.40 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLA	1+2	WLAN5.2GHz 802.11n-HT20	5180	2.77	19.50	22.27	0.17	168.66	0.034	1.00	0.034
1+2 WLAN5.8GHz 802.11n-HT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11n-HT40 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11n-HT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.035 1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLA	1+2	WLAN5.3GHz 802.11n-HT20	5260	3.40	19.50	22.90	0.19	194.98	0.039	1.00	0.039
1+2 WLAN5.2GHz 802.11n-HT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11n-HT40 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11n-HT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11ac VHT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.037 1+2 W	1+2	WLAN5.5GHz 802.11n-HT20	5500	3.49	19.50	22.99	0.20	199.07	0.040	1.00	0.040
1+2 WLAN5.3GHz 802.11n-HT40 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11n-HT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11ac VHT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.034 1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.035 1+2 <td< td=""><td>1+2</td><td>WLAN5.8GHz 802.11n-HT20</td><td>5700</td><td>3.69</td><td>19.00</td><td>22.69</td><td>0.19</td><td>185.78</td><td>0.037</td><td>1.00</td><td>0.037</td></td<>	1+2	WLAN5.8GHz 802.11n-HT20	5700	3.69	19.00	22.69	0.19	185.78	0.037	1.00	0.037
1+2 WLAN5.5GHz 802.11n-HT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11n-HT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11ac VHT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT20 5700 3.69 19.00 22.49 0.18 177.42 0.035 1.00 0.037 1+2 WLAN5.3GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.035 1+2 <	1+2	WLAN5.2GHz 802.11n-HT40	5180	2.77	19.00	21.77	0.15	150.31	0.030	1.00	0.030
1+2 WLAN5.8GHz 802.11n-HT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11ac VHT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5180 2.77 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.3GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.035 1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2	1+2	WLAN5.3GHz 802.11n-HT40	5260	3.40	19.50	22.90	0.19	194.98	0.039	1.00	0.039
1+2 WLAN5.2GHz 802.11ac VHT20 5180 2.77 19.50 22.27 0.17 168.66 0.034 1.00 0.034 1+2 WLAN5.3GHz 802.11ac VHT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.035 1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2	1+2	WLAN5.5GHz 802.11n-HT40	5500	3.49	19.00	22.49	0.18	177.42	0.035	1.00	0.035
1+2 WLAN5.3GHz 802.11ac VHT20 5260 3.40 19.50 22.90 0.19 194.98 0.039 1.00 0.039 1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.035 1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2	1+2	WLAN5.8GHz 802.11n-HT40	5700	3.69	19.00	22.69	0.19	185.78	0.037	1.00	0.037
1+2 WLAN5.5GHz 802.11ac VHT20 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 <t< td=""><td>1+2</td><td>WLAN5.2GHz 802.11ac VHT20</td><td>5180</td><td>2.77</td><td>19.50</td><td>22.27</td><td>0.17</td><td>168.66</td><td>0.034</td><td>1.00</td><td>0.034</td></t<>	1+2	WLAN5.2GHz 802.11ac VHT20	5180	2.77	19.50	22.27	0.17	168.66	0.034	1.00	0.034
1+2 WLAN5.8GHz 802.11ac VHT20 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.024 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 <t< td=""><td>1+2</td><td>WLAN5.3GHz 802.11ac VHT20</td><td>5260</td><td>3.40</td><td>19.50</td><td>22.90</td><td>0.19</td><td>194.98</td><td>0.039</td><td>1.00</td><td>0.039</td></t<>	1+2	WLAN5.3GHz 802.11ac VHT20	5260	3.40	19.50	22.90	0.19	194.98	0.039	1.00	0.039
1+2 WLAN5.2GHz 802.11ac VHT40 5180 2.77 19.00 21.77 0.15 150.31 0.030 1.00 0.030 1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.022 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2	1+2	WLAN5.5GHz 802.11ac VHT20	5500	3.49	19.00	22.49	0.18	177.42	0.035	1.00	0.035
1+2 WLAN5.3GHz 802.11ac VHT40 5260 3.40 19.00 22.40 0.17 173.78 0.035 1.00 0.035 1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.024 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.8GHz 802.11ac VHT20	5700	3.69	19.00	22.69	0.19	185.78	0.037	1.00	0.037
1+2 WLAN5.5GHz 802.11ac VHT40 5500 3.49 19.00 22.49 0.18 177.42 0.035 1.00 0.035 1+2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.024 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.2GHz 802.11ac VHT40	5180	2.77	19.00	21.77	0.15	150.31	0.030	1.00	0.030
1+2 WLAN5.8GHz 802.11ac VHT40 5700 3.69 19.00 22.69 0.19 185.78 0.037 1.00 0.037 1+2 WLAN5.2GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.024 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.3GHz 802.11ac VHT40	5260	3.40	19.00	22.40	0.17	173.78	0.035	1.00	0.035
1+2 WLAN5.2GHz 802.11ac VHT80 5180 2.77 17.50 20.27 0.11 106.41 0.021 1.00 0.021 1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.024 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.5GHz 802.11ac VHT40	5500	3.49	19.00	22.49	0.18	177.42	0.035	1.00	0.035
1+2 WLAN5.3GHz 802.11ac VHT80 5260 3.40 17.50 20.90 0.12 123.03 0.024 1.00 0.024 1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.8GHz 802.11ac VHT40	5700	3.69	19.00	22.69	0.19	185.78	0.037	1.00	0.037
1+2 WLAN5.5GHz 802.11ac VHT80 5500 3.49 17.00 20.49 0.11 111.94 0.022 1.00 0.022 1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.2GHz 802.11ac VHT80	5180	2.77	17.50	20.27	0.11	106.41	0.021	1.00	0.021
1+2 WLAN5.8GHz 802.11ac VHT80 5700 3.69 17.00 20.69 0.12 117.22 0.023 1.00 0.023	1+2	WLAN5.3GHz 802.11ac VHT80	5260	3.40	17.50	20.90	0.12	123.03	0.024	1.00	0.024
	1+2	WLAN5.5GHz 802.11ac VHT80	5500	3.49	17.00	20.49	0.11	111.94	0.022	1.00	0.022
2 Bluetooth v4.1 LE 2402 1.51 7.50 9.01 0.01 7.96 0.002 1.00 0.002	1+2	WLAN5.8GHz 802.11ac VHT80	5700	3.69	17.00	20.69	0.12	117.22	0.023	1.00	0.023
	2	Bluetooth v4.1 LE	2402	1.51	7.50	9.01	0.01	7.96	0.002	1.00	0.002

Note: 1. For conservativeness, the lowest frequency of each band is used to determine the MPE limit of that band.

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Chose the maximum power to do MPE analysis.
 MIMO gain is chose from the higher gain value from SISO mode.



5.2. Collocated Power Density Calculation

Mode	Frequency	Power Density / Limit	Σ (Power Density / Limit) of WLAN 5GHz Ant.1+ Bluetooth Ant.2
WLAN5GHz(Ant 1)	5180 MHz ~ 5825 MHz	0.055	0.057
Bluetooth v4.1 LE(Ant 2)	2402 MHz ~ 2480 MHz	0.002	

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Note:

- 1. According to EUT character, Bluetooth can only transmit simultaneously with WLAN 5G (Ant 1).
- 2. Σ (Power Density / Limit): This is a summation of [(power density for each transmitter/antenna included in the simultaneous transmission)/ (corresponding MPE limit)], for WLAN 5GHz Ant.1+ Bluetooth Ant.2.
- 3. The aggregated (power density /limit) is smaller than 1, and complied RF exposure.

Conclusion:

According to 47 CFR §2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

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