Report No: C170322Z06-RP1_MPE

FCC ID: VW7SR570A

Date of Issue: August 29, 2017

MPE Report

Exposure category: General population/uncontrolled environment

EUT Type: Production Unit Device Type: Mobile Device

Refer Standard: KDB 447498 D01 General RF Exposure Guidance v06

FCC Part 2 §2.1091

1. Evaluation method

Systems operating under the provisions of FCC 47 CFR section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modeled or measured field strengths or power density, is ≤ 1.0. The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

2. Limits for General Population/Uncontrolled Exposure

(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)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz; *Plane-wave equivalent power density

3. Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

 $S=PG/4\pi R^2$

Where: S=power density



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P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

From the EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the maximum gain of the used 3.5dBi for for 2.4GWLAN and 5.8GWLAN, the RF power density can be obtained.

Frequency	Antenna type and antenna	Internal	Maximum antenna
Band	number	Identification	gain
		Antenna 0	3.5dBi
2.4GHz	Omni-directional antenna	Antenna 1	3.5dBi
		Antenna 2	3.5dBi
		Antenna 0	3.5dBi
5.8GHz		Antenna 1	3.5dBi
3.8GHZ	Omni-directional antenna	Antenna 2	3.5dBi
		Antenna 3	3.5dBi

4. Estimation Result

4.1 Conducted Power Results

2.4GHz WIFI

Antenna	Mode Frequency(M		AVG Conducted Output Power (dBm)
		2412	16.61
Antenna 0		2437	16.48
		2462	16.39
		2412	16.72
Antenna 1	IEEE 802.11b	2437	16.71
		2462	16.32
		2412	16.18
Antenna 2		2437	16.15
		2462	16.11
		2412	19.75
Antenna 0		2437	19.85
		2462	19.83
		2412	19.32
Antenna 1	IEEE 802.11g	2437	19.63
		2462	19.41
		2412	18.33
Antenna 2		2437	19.43
		2462	19.42
		2412	15.63
Antenna 0	IEEE 802.11n HT20	2437	15.67
		2462	15.88



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		2412	15.61
Antenna 1		2437	15.79
		2462	15.55
		2412	15.53
Antenna 2		2437	15.86
		2462	15.43
		2422	15.87
Antenna 0		2437	15.21
		2452	15.93
		2422	15.91
Antenna 1	IEEE 802.11n HT40	2437	15.33
		2452	15.97
		2422	15.85
Antenna 2		2437	15.88
		2452	15.74

5GHz WIFI

Antenna	Mode	Frequency(MHz)	AVG Conducted Output
7 x mema	Wiode	requency (writz)	Power (dBm)
		5180	17.56
		5200	19.27
		5240	17.24
		5260	17.33
		5300	17.30
A 0		5320	17.52
Antenna 0		5500	19.50
		5580	19.54
		5700	19.49
	IEEE 802.11a	5745	22.46
		5785	22.57
		5825	22.26
		5180	17.26
		5200	19.31
		5240	19.15
		5260	17.46
		5300	17.54
Antenna 1		5320	17.61
		5500	19.13
		5580	18.94
		5700	18.83
		5745	22.14
		5785	22.02



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		5825	22.25
		5180	17.51
		5200	19.21
		5240	19.06
		5260	17.24
		5300	17.57
Antenna 2		5320	17.29
Antenna 2		5500	19.35
		5580	19.13
		5700	19.22
		5745	22.54
		5785	22.45
		5825	22.24
		5180	17.71
		5200	19.42
		5240	19.28
		5260	17.41
		5300	17.15
Antenna 3		5320	17.25
Antenna 3		5500	19.71
		5580	19.52
		5700	19.38
		5745	22.11
		5785	22.07
		5825	22.02
		5180	11.46
		5200	13.54
		5240	13.38
		5260	13.76
		5300	13.47
		5320	13.7
Antenna 0		5500	13.65
		5580	13.61
	IEEE 802.11n HT20	5700	13.81
		5745	17.03
		5785	17.19
		5825	17.25
	┥	5180	11.28
		5200	13.27
Antenna 1		5240	13.27
	-		
		5260	13.51



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Antenna 3 5300				T
Antenna 2 S500			5300	13.45
Antenna 2 5580			5320	13.32
Antenna 3 5700			5500	13.45
Antenna 3 S745			5580	13.43
Antenna 2 Antenna 2 Antenna 2 Antenna 3 Antenna 0 IEEE 802.11n HT40 5825 17.08 17.09 5825 17.08 11.93 5200 13.77 5240 13.35 5260 13.73 5300 13.67 5320 13.41 5580 13.46 5580 13.46 5580 13.61 5700 13.89 5745 17.51 5785 17.53 5825 17.45 5180 12.39 5200 15.31 5240 15.25 5260 13.72 5300 13.98 5320 13.76 5320 13.76 5580 13.69 5700 13.72 5580 13.69 5700 13.72 5580 13.69 5700 13.72 5580 13.69 5700 14.23 5510 14.17 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5700	13.89
Antenna 2 Antenna 2 Antenna 2 Antenna 3 S825 17.08 5180 11.93 5200 13.77 5240 13.35 5260 13.73 5300 13.67 5320 13.41 5500 13.46 5580 13.61 5700 13.89 5745 17.51 5785 17.53 5825 17.45 5180 12.39 5200 15.31 5240 15.25 5260 13.72 5300 13.98 5320 13.72 5300 13.98 5320 13.76 5580 13.72 5580 13.69 5700 13.72 5580 14.77 5585 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5745	17.33
Antenna 2 S180			5785	17.09
Antenna 2 S200			5825	17.08
Antenna 2 S200			5180	11.93
Antenna 2 S260			5200	
Antenna 2 5300			5240	13.35
Antenna 2 5320			5260	13.73
Antenna 2 5500			5300	13.67
Antenna 3 5500	A		5320	13.41
Antenna 3 5700	Antenna 2		5500	13.46
Antenna 3 S745			5580	13.61
Antenna 3 S785 17.53 5825 17.45 5180 12.39 5200 15.31 5240 15.25 5260 13.72 5300 13.98 5320 13.76 5590 13.72 5580 13.69 5700 13.72 5745 17.77 5785 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 5310 14.17 5550 14.87 5670 14.26 5755 18.33			5700	13.89
Antenna 3 Antenna 3 Antenna 3 Antenna 4 Antenna 5 EEE 802.11n HT40 5825 17.45 5180 12.39 5200 15.31 5240 15.25 5260 13.72 5300 13.98 5320 13.76 5500 13.72 5580 13.69 5700 13.72 5745 17.77 5785 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 5550 14.23 5550 14.87 5670 14.26 5755 18.33			5745	17.51
Antenna 3 5180			5785	17.53
Antenna 3 5200			5825	17.45
Antenna 3 Antenna 4 Antenna 6 BEEE 802.11n HT40 BEEE 802.11n HT40 Antenna 6 Antenna 7 Antenna 8 Antenna 9 Antenna 9 Antenna 9 BEEE 802.11n HT40 Antenna 9 Antenna 9 BEEE 802.11n HT40 BEEE 802.11n HT40			5180	12.39
Antenna 3 5260			5200	15.31
Antenna 3 5300			5240	15.25
Antenna 3 5320 13.76 5500 13.72 5580 13.69 5700 13.72 5745 17.77 5785 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 Antenna 0 IEEE 802.11n HT40 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5260	13.72
Antenna 3 5500			5300	13.98
5500 13.72 5580 13.69 5700 13.72 5745 17.77 5785 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 Antenna 0 IEEE 802.11n HT40 5510 14.23 5550 14.87 5670 14.26 5755 18.33	Antanna 3		5320	13.76
Antenna 0 5700	Antenna 3		5500	13.72
Antenna 0 5745 17.77 5785 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 5310 14.23 5550 14.87 5670 14.26 5755 18.33			5580	13.69
5785 17.76 5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 IEEE 802.11n HT40 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5700	13.72
5825 17.53 5190 10.58 5230 11.02 5270 14 5310 14.17 Antenna 0 IEEE 802.11n HT40 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5745	
Antenna 0 5190				
5230 11.02 5270 14 5310 14.17 5310 14.23 5550 14.87 5670 14.26 5755 18.33			5825	17.53
Antenna 0 IEEE 802.11n HT40 5270 14 5310 14.17 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5190	10.58
Antenna 0 IEEE 802.11n HT40 5310 14.17 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5230	11.02
Antenna 0 IEEE 802.11n HT40 5510 14.23 5550 14.87 5670 14.26 5755 18.33			5270	14
5550 14.87 5670 14.26 5755 18.33			5310	14.17
5670 14.26 5755 18.33	Antenna 0	IEEE 802.11n HT40	5510	14.23
5755 18.33			5550	14.87
			5670	14.26
			5755	18.33
3/93 18.28			5795	18.28



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		5190	10.98
		5230	11.31
		5270	14.2
		5310	14.26
Antenna 1		5510	14.14
		5550	14.27
		5670	14.15
		5755	18.23
		5795	18.41
		5190	11.14
		5230	11.17
		5270	14.05
		5310	14.25
Antenna 2		5510	14.12
		5550	14.14
		5670	14.18
		5755	18.43
		5795	18.35
		5190	11.77
		5230	11.68
		5270	14.15
		5310	14.11
Antenna 3		5510	14.02
		5550	14.11
		5670	14.18
		5755	18.03
		5795	18.27
		5210	11.58
A		5290	13.96
Antenna 0		5530	13.75
		5775	18.03
		5210	11.28
		5290	13.36
Antenna 1	WEEE 002 11 00	5530	13.87
	IEEE 802.11ac 80	5775	18.05
	1	5210	11.03
		5290	13.78
Antenna 2		5530	13.83
		5775	18.32
	1	5210	11.41
Antenna 3		5290	13.62
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5530	13.86
5775	18.39

4.2 Manufacturing tolerance

2.4GHz WIFI

IEEE 802.11 b (AVG)									
Frequency	Antenna 0			uency Antenna 0 Antenna 1		Antenna 2			
(MHz)	2412	2437	2462	2412	2437	2462	2412	2437	2462
Maximum									
Output power	16.61	16.48	16.39	16.72	16.71	16.32	16.18	16.15	16.11
(dBm)									

IEEE 802.11 g (AVG)									
Frequency	Antenna 0			Frequency Antenna 0 Antenna 1		Antenna 2			
(MHz)	2412	2437	2462	2412	2437	2462	2412	2437	2462
Maximum									
Output power	19.75	19.85	19.83	19.32	19.63	19.41	18.33	19.43	19.42
(dBm)									

IEEE 802.11 n HT20 (AVG)									
Frequency	Antenna 0			Frequency Antenna 0 Antenna 1			Antenna 2	r	
(MHz)	2412	2437	2462	2412	2437	2462	2412	2437	2462
Maximum Output power (dBm)	15.63	15.67	15.88	15.61	15.79	15.55	15.53	15.86	15.43

	IEEE 802.11 n HT40 (AVG)												
Frequency		Antenna 0 Antenna 1 Antenna 2											
(MHz)	2422	2437	2452	2412	2437	2462	2422	2437	2452				
Maximum													
Output power	15.87	15.21	15.93	15.91	15.33	15.97	15.85	15.88	15.74				
(dBm)													



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5GHz WIFI

				IEE	E 802.11	a (AVC	3)					
Frequency	A	Antenna	0	A	Antenna	1	A	Antenna	2	A	Antenna	3
(MHz)	5180	5200	5240	5180	5200	5240	5180	5200	5240	5180	5200	5240
Maximum												
Output power	17.56	19.27	17.24	17.26	19.31	19.31	17.51	19.21	19.06	17.71	19.42	19.28
(dBm)												
Frequency	A	Antenna 0		A	Antenna	1	Antenna 2			A	Antenna	3
(MHz)	5260	5300	5320	5260	5300	5320	5260	5300	5320	5260	5300	5320
Maximum												
Output power	17.33	17.30	17.52	17.46	17.46	17.61	17.24	17.57	17.29	17.41	17.15	17.25
(dBm)												
Frequency	A	Antenna	0	Α	Antenna	1	A	Antenna	2	I	Antenna	3
(MHz)	5500	5580	5700	5500	5580	5700	5500	5580	5700	5500	5580	5700
Maximum												
Output power	19.50	19.54	19.49	19.13	18.94	18.83	19.35	19.13	19.22	19.71	19.52	19.38
(dBm)												
	,											
Frequency	A	Antenna	0	Α	Antenna	1	A	Antenna	2	I	Antenna	3
(MHz)	5745	5785	5825	5745	5785	5825	5745	5785	5825	5745	5785	5825
Maximum												
Output power	22.46	22.57	22.26	22.14	22.02	22.25	22.54	22.45	22.24	22.11	22.07	22.02
(dBm)												



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IEEE 802.11n HT20 (AVG)												
Frequency	A	Antenna	0	A	Antenna	1	A	Antenna	2	A	Antenna	3
(MHz)	5180	5200	5240	5180	5200	5240	5180	5200	5240	5180	5200	5240
Maximum												
Output power	11.46	13.54	13.38	11.28	13.27	13.38	11.93	13.77	13.35	12.39	15.31	15.25
(dBm)												
Frequency	A	Antenna 0		A	Antenna	1	Antenna 2			Antenna 3		
(MHz)	5260	5300	5320	5260	5300	5320	5260	5300	5320	5260	5300	5320
Maximum												
Output power	13.76	13.47	13.70	13.51	13.45	13.32	13.73	13.67	13.41	13.72	13.98	13.76
(dBm)												
Frequency	A	Antenna	0	A	ntenna	1	F	Antenna	2	I	Antenna	3
(MHz)	5500	5580	5700	5500	5580	5700	5500	5580	5700	5500	5580	5700
Maximum												
Output power	13.65	13.61	13.81	13.45	13.43	13.89	13.46	13.61	13.89	13.72	13.69	13.72
(dBm)												
	,											
Frequency	A	Antenna	0	A	ntenna	1	F	Antenna	2	I	Antenna	3
(MHz)	5745	5785	5825	5745	5785	5825	5745	5785	5825	5745	5785	5825
Maximum												
Output power	17.03	17.19	17.25	17.33	17.09	17.08	13.89	17.53	17.45	17.77	17.76	17.53
(dBm)												



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IEEE 802.11n HT40 (AVG)												
Frequency		Antenna	0		ntenna		<u> </u>	Antenna	2	A	Antenna	3
(MHz)	5190		5230	5190		5230	5190		5230	5190		5230
Maximum												
Output power	10.58		11.02	10.98		11.31	11.14		11.17	11.77		11.68
(dBm)												
Frequency	Antenna 0			Antenna 1			Antenna 2			Antenna 3		
(MHz)	5270		5310	5270		5310	5270		5310	5270		5310
Maximum												
Output power	14.00		14	14.20		14.26	14.05		14.25	14.15		14.11
(dBm)												
Frequency	A	Antenna	0	Α	ntenna	1	F	Antenna	2	A	Antenna	3
(MHz)	5510	5550	5670	5510	5550	5670	5510	5550	5670	5510	5550	5670
Maximum												
Output power	14.23	14.87	14.26	14.14	14.27	14.15	14.12	14.14	14.18	14.02	14.11	14.18
(dBm)												
							1					
Frequency	A	Antenna	0	Α	ntenna	1	A	Antenna	2	A	Antenna	3
(MHz)	5755		5795	5755		5795	5755		5795	5755		5795
Maximum												
Output power	18.33		18.28	18.23		18.41	18.43		18.35	18.03		18.27
(dBm)												

	IEEE 802.11ac 80 (AVG)													
Frequency	A	Antenna 0			ntenna	1	A	Antenna	2	Antenna 3				
(MHz)	5210		5290	5210		5290	5210		5290	5210		5290		
Maximum Output power (dBm)	11.58		13.96	11.28		13.36	11.03		13.83	11.41		13.86		
Frequency	A	Antenna	0	A	ntenna	1				A	Antenna 2			
(MHz)	5530		5775	5530		5775	5530		5775	5530		5775		
Maximum Output power (dBm)	13.75		18.03	13.87		18.05	13.78		18.32	13.62		18.39		



4.3 Measurement Results

4.3.1 Standalone MPE

2.4GWLAN

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Antenna 0

Mode	Outpu	t power	Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm ²)	(mW/cm ²)
IEEE 802.11 b	16.61	45.8142	3.5000	2.2387	100%	0.0204	1.0000
IEEE 802.11 g	19.85	96.6051	3.5000	2.2387	100%	0.0430	1.0000
IEEE 802.11 n HT20	15.88	38.7258	3.5000	2.2387	100%	0.0173	1.0000
IEEE 802.11 n HT40	15.93	39.1742	3.5000	2.2387	100%	0.0175	1.0000

Antenna 1

Mode	Output	t power	Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm^2)	(mW/cm ²)
IEEE 802.11 b	16.72	46.9894	3.5000	2.2387	100%	0.0209	1.0000
IEEE 802.11 g	19.63	91.8333	3.5000	2.2387	100%	0.0409	1.0000
IEEE 802.11 n HT20	15.79	37.9315	3.5000	2.2387	100%	0.0169	1.0000
IEEE 802.11 n HT40	15.97	39.5367	3.5000	2.2387	100%	0.0176	1.0000

Antenna 2

Mode	Output power		Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm ²)	(mW/cm ²)
IEEE 802.11 b	16.18	41.4954	3.5000	2.2387	100%	0.0185	1.0000
IEEE 802.11 g	19.43	87.7001	3.5000	2.2387	100%	0.0391	1.0000
IEEE 802.11 n HT20	15.86	38.5478	3.5000	2.2387	100%	0.0172	1.0000
IEEE 802.11 n HT40	15.88	38.7258	3.5000	2.2387	100%	0.0173	1.0000

5GWLAN

Antenna 0

Mode	Output	power	Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm^2)	(mW/cm^2)
IEEE 802.11 a	22.57	180.7174	3.5000	2.2387	100%	0.0805	1.0000
IEEE 802.11 n HT20	17.25	53.0884	3.5000	2.2387	100%	0.0237	1.0000
IEEE 802.11 n HT40	18.33	68.0769	3.5000	2.2387	100%	0.0303	1.0000
IEEE 802.11 ac 80	18.03	63.5331	3.5000	2.2387	100%	0.0283	1.0000



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Antenna 1

Mode	Output power		Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm^2)	(mW/cm^2)
IEEE 802.11 a	22.25	167.8804	3.5000	2.2387	100%	0.0748	1.0000
IEEE 802.11 n HT20	17.33	54.0754	3.5000	2.2387	100%	0.0241	1.0000
IEEE 802.11 n HT40	18.41	69.3426	3.5000	2.2387	100%	0.0309	1.0000
IEEE 802.11 ac 80	18.05	63.8263	3.5000	2.2387	100%	0.0284	1.0000

Antenna 2

Mode	Output	power	Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm^2)	(mW/cm^2)
IEEE 802.11 a	22.54	179.4734	3.5000	2.2387	100%	0.0800	1.0000
IEEE 802.11 n HT20	17.53	56.6239	3.5000	2.2387	100%	0.0252	1.0000
IEEE 802.11 n HT40	18.43	69.6627	3.5000	2.2387	100%	0.0310	1.0000
IEEE 802.11 ac 80	18.32	67.9204	3.5000	2.2387	100%	0.0303	1.0000

Antenna 3

Mode	Output	power	Antenna Gain	Antenna Gain	Duty	MPE	MPE Limits
	(dBm)	(mW)	(dBi)	(linear)	Cycle	(mW/cm^2)	(mW/cm^2)
IEEE 802.11 a	22.11	162.5549	3.5000	2.2387	100%	0.0724	1.0000
IEEE 802.11 n HT20	17.77	59.8412	3.5000	2.2387	100%	0.0267	1.0000
IEEE 802.11 n HT40	18.27	67.1429	3.5000	2.2387	100%	0.0299	1.0000
IEEE 802.11 ac 80	18.39	69.0240	3.5000	2.2387	100%	0.0308	1.0000

Remark:

- 1. Maximum average power including tune-up tolerance;
- 2. MPE use distance is 20cm from manufacturer declaration of user manual.

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

 \sum of MPE ratios ≤ 1.0

We first evaluate single mode WLAN simultaneous transmission and later evaluate dual-mode WLAN simultaneous transmission;

Antenna 0 and Antenna 1, Antenna 2 for 2.4GWLAN

Band	Mode	MPE Ratio	MPE Ratio	MPE Ratio	∑ MPE ratios	Limit	Results
		Antenna 0	Antenna 1	Antenna 2			
2.4G	IEEE 802.11b	0.0204	0.0209	0.0185	N/A	1.000	Pass
	IEEE 802.11g	0.0430	0.0409	0.0391	N/A	1.000	Pass
	IEEE 802.11n HT20	0.0173	0.0169	0.0172	0.051	1.000	Pass
	IEEE 802.11n HT40	0.0175	0.0176	0.0173	0.052	1.000	Pass



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Antenna 0 and Antenna 1, Antenna 2, Antenna 3 for 5GWLAN

Band	Mode	MPE Ratio	MPE Ratio	MPE Ratio	MPE Ratio	Σ MPE ratios	Limit	Results
		Antenna 0	Antenna 1	Antenna 2	Antenna 3	1		
5G	IEEE 802.11a	0.0805	0.0748	0.0800	0.0724	N/A	1.000	Pass
	IEEE 802.11n HT20	0.0237	0.0241	0.0252	0.0267	0.0997	1.000	Pass
	IEEE 802.11n HT40	0.0303	0.0309	0.0310	0.0299	0.1221	1.000	Pass
	IEEE 802.11ac 80	0.0283	0.0284	0.0303	0.0308	0.1178	1.000	Pass

Maximum Simultaneous transmission MPE Ratio for WLAN

Maximum MPE ratio 2.4G _{WLAN}	Maximum MPE ratio 5G _{WLAN}	∑ MPE ratios	Limit	Results	
0.051	0.1221	0.1731	1.000	Pass	

Note: The estimation distance is 20cm

Conclusion

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

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