

A Test Lab Techno Corp.

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MPE Report





Test Report No. : 1901FS13

Applicant : Araknis Networks

Product Type : WAVE 2 AC WIRELESS ACCESS POINT

Trade Name : Araknis Networks

Model Number : AN-810-AP-I-AC

Received Date : Nov. 26, 2018

Test Period : Dec. 04, 2018

Issue Date : Feb. 13, 2019

Test Specification : ANSI / IEEE Std. C95.1-1992 / IEEE Std. 1528-2013

47 CFR § 2.1091

47 CFR § 1.1310

- 1. The test operations have to be performed with cautious behavior, the test results are as attached.
- 2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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Approved By : Edison Hu Tested By : Krus Pan

(Edison Hu) (Kris Pan)



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1. Description of Equipment under Test (EUT)

			•						
Applicant	Araknis Netw								
присан			*	e, North Carolina, 282	73, United State	S			
Manufacturer	Emplus Technologies Inc. No. 42, Sec. 1, Minsheng N. Rd., Guishan Dist., Taoyuan City 333, Taiwan								
D 1 1 T			-	Dist., Taoyuan City 33	3, Taiwan				
Product Type			S ACCESS POINT						
Trade Name	Araknis Netw								
Model Number	AN-810-AP-I								
FCC ID	2AG6R-AN8	TUAPIAC			Fraguera, F) on a o			
			Operate Band		Frequency Range (MHz)				
	IEEE 802.11k	o / 802.11g	2412 - 24	162					
	IEEE 802.11r	2422 - 24							
	IEEE 802.11a	5180 - 52	240						
Francisco Danas	IEEE 802.11a	5745 - 58	325						
Frequency Range	IEEE 802.11a	5180 - 52	240						
	IEEE 802.11a	5745 - 58	325						
	IEEE 802.11a	5190 - 52	230						
	IEEE 802.11a	ac / 802.11	5755 - 5795						
	IEEE 802.11a		5210						
	IEEE 802.11a	ac 80 MHz	U-NII Band III		5775				
	Frequency	ANT	Model Number	Туре	Max. Gain	(dBi)			
		ANT-0	5718A0346300	Metal PIFA Antenna	2.86				
		ANT-1	5718A0347300	Metal PIFA Antenna	3.12				
	2.4 GHz	ANT-2	5718A0348300	Metal PIFA Antenna	3.14				
		ANT-3	5718A0349300	3.29					
			G _{ANT}	3.11					
			Directional (Gain	9.12				
		ANTO	F740400F0000	Metal PIFA Antenna	U-NII Band I	4.78			
		ANT-0	5718A0350300	Metal PIFA Antenna	U-NII Band III	5.07			
Antenna Information		ANT-1	5718A0351300	Metal PIFA Antenna	U-NII Band I	4.61			
		AINT-T	57 T6A035T300	Metal FIFA Afficentia	U-NII Band III	5.50			
		ANT-2	5718A0352300	Metal PIFA Antenna	U-NII Band I	4.31			
	5 GHz	AINT-2	37 16A0332300	Metal I II A Aliterilia	U-NII Band III	5.36			
	3 0112	ANT-3	5718A0353300	Metal PIFA Antenna	U-NII Band I	4.15			
		ANT-3	37 10A0333300	Wetai i ii AAntenna	U-NII Band III	5.84			
			G_{ANT}		U-NII Band I	4.47			
			CANT		U-NII Band III	5.45			
			Directional (U-NII Band I	10.49				
			55	U-NII Band III	11.47				

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	IEEE 802.11b / IEEE 802.11g: 4TX (CDD)
Antonna Daliyany	IEEE 802.11n 2.4GHz 20 MHz / 40 MHz: 4TX (STBC/Beamforming on)
Antenna Delivery	IEEE 802.11a: 4TX (CDD)
	IEEE 802.11ac 20 MHz / 40 MHz / 80 MHz: 4TX (STBC/Beamforming on)
RF Evaluation	0.376 mW/cm ²
Temperature Range	0 ~ +50°C

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR \S 2.1091 / 47 CFR \S 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties

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2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR § 1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons. " This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

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

Where

S: power density

P: power input to the 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.



3. RF Output Power

The conducted power turn-up tolerance reference manufacturer specification.

Pand	Date Rate	Frequency		Average	Conducte (dBm)	ed power	
Band	(Mbps)	(MHz)	ANT-0	ANT-1	ANT-2	ANT-3	ANT- 0+1+2+3
		2412.0	18.04	17.65	17.92	17.93	23.91
	1	2437.0	18.23	17.93	17.97	18.27	24.12
IEEE 802.11b		2462.0	18.57	18.45	18.19	18.71	24.50
ILLE 002.110	2	2437.0	17.91	17.82	17.87	18.01	23.92
	5.5	2437.0	17.90	17.80	17.82	18.03	23.91
	11	2437.0	17.88	17.85	17.86	17.94	23.90
		2412.0	16.61	16.45	16.55	16.57	22.57
	6	2437.0	16.56	16.56	16.65	16.61	22.62
		2462.0	15.95	15.90	15.88	16.04	21.96
	9	2437.0	16.50	16.50	16.50	16.50	22.52
IEEE 902 11a	12	2437.0	16.51	16.49	16.49	16.52	22.52
IEEE 802.11g	18	2437.0	16.52	16.51	16.51	16.55	22.54
	24	2437.0	16.49	16.49	16.52	16.56	22.54
	36	2437.0	16.53	16.52	16.49	16.50	22.53
	48	2437.0	16.51	16.51	16.48	16.55	22.53
	54	2437.0	16.52	16.50	16.47	16.53	22.53
		2412.0	13.91	13.76	13.83	13.87	19.86
	26	2437.0	16.21	16.03	16.08	16.16	22.14
		2462.0	13.45	13.62	13.59	13.54	19.57
	57.6	2437.0	16.05	16.00	16.00	16.10	22.06
	86.8	2437.0	16.05	15.99	16.02	16.00	22.04
IEEE 802.11n 2.4 GHz 20 MHz	115.6	2437.0	16.06	15.98	16.01	16.07	22.05
	173.2	2437.0	16.02	15.97	15.99	16.11	22.04
	231.2	2437.0	16.10	16.00	15.97	16.13	22.07
	260	2437.0	16.02	15.99	15.99	16.05	22.03
	288.8	2437.0	16.07	15.97	16.00	16.09	22.05
	346.8	2437.0	16.05	15.96	16.01	16.11	22.05
		2422.0	12.38	12.26	12.32	12.27	18.33
	54	2437.0	15.38	15.15	15.26	15.33	21.30
		2452.0	12.40	12.24	12.29	12.35	18.34
	120	2437.0	15.20	15.10	15.21	15.29	21.22
	180	2437.0	15.23	15.02	15.20	15.22	21.19
	240	2437.0	15.30	15.03	15.18	15.23	21.21
IEEE 802.11n 2.4 GHz 40 MHz	360	2437.0	15.29	15.06	15.17	15.18	21.20
	480	2437.0	15.18	15.11	15.15	15.15	21.17
	540	2437.0	15.18	15.10	15.10	15.19	21.16
	600	2437.0	15.26	15.08	15.18	15.21	21.20
	720	2437.0	15.28	15.09	15.16	15.20	21.20
	800	2437.0	15.31	14.92	15.21	15.19	21.18

Note: The relevant measured result has the offset with cable loss already.

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				Average	Conducte	ed power	
Dond	Date Rate	Frequency		ŭ	(dBm)	•	
Band	(Mbps)	(MHz)	ANT-0	ANT-1	ANT-2	ANT-3	ANT- 0+1+2+3
		5180.0	16.25	16.36	16.35	16.21	22.31
		5200.0	16.20	16.14	16.24	16.18	22.21
		5220.0	16.21	16.18	16.26	16.12	22.21
		5240.0	16.11	16.20	16.25	16.22	22.22
	6	5745.0	18.95	18.70	19.02	18.72	24.87
		5765.0	18.96	18.87	19.14	18.86	24.98
		5785.0	19.01	18.98	19.08	18.97	25.03
		5805.0	19.05	18.94	19.03	18.96	25.02
IEEE 902 44a		5825.0	18.97	19.06	19.15	19.08	25.09
IEEE 802.11a		5180.0	16.17	16.30	16.28	16.15	22.25
		5200.0	16.10	16.04	16.20	16.10	22.13
	54	5220.0	16.11	16.10	16.20	16.05	22.14
		5240.0	16.05	16.13	16.17	16.13	22.14
		5745.0	18.87	18.60	18.93	18.68	24.79
		5765.0	18.88	18.81	19.05	18.80	24.91
		5785.0	18.95	18.90	18.95	18.90	24.95
		5805.0	18.98	18.85	18.81	18.89	24.90
		5825.0	18.90	19.00	19.07	19.01	25.02
		5180.0	15.96	15.89	16.01	15.98	21.98
		5200.0	16.01	15.95	16.08	15.95	22.02
		5220.0	16.00	16.03	16.04	15.98	22.03
		5240.0	15.97	15.96	16.04	16.02	22.02
	26	5745.0	18.32	18.34	18.45	18.43	24.41
		5765.0	18.29	18.23	18.49	18.48	24.39
		5785.0	18.31	18.13	18.42	18.50	24.36
		5805.0	18.29	18.29	18.55	18.53	24.44
IEEE 802.11n 5 GHz 20 MHz		5825.0	18.21	18.31	18.43	18.52	24.39
ILLE 002.1111 3 GHZ 20 MHZ		5180.0	15.90	15.80	15.94	15.91	21.91
		5200.0	15.89	15.91	16.01	15.88	21.94
		5220.0	15.92	15.93	15.98	15.92	21.96
		5240.0	15.90	15.87	15.97	15.93	21.94
	346.8	5745.0	18.20	18.29	18.35	18.30	24.31
		5765.0	18.21	18.17	18.40	18.40	24.32
		5785.0	18.30	18.04	18.39	18.45	24.32
		5805.0	18.19	18.17	18.50	18.43	24.35
		5825.0	18.10	18.20	18.37	18.48	24.31

Note: The relevant measured result has the offset with cable loss already.

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	Date Rate	Frequency (MHz)		Average Conducted power (dBm)					
Band	(Mbps)		ANT-0	ANT-1	ANT-2	ANT-3	ANT- 0+1+2+3		
		5190.0	16.29	16.36	16.34	16.45	22.38		
	54	5230.0	18.45	18.53	18.51	18.42	24.50		
		5755.0	17.75	17.85	17.35	17.62	23.67		
IEEE 000 44 5 CUI- 40 MUI-		5795.0	17.66	17.65	17.60	17.54	23.63		
IEEE 802.11n 5 GHz 40 MHz	800	5190.0	16.20	16.28	16.28	16.39	22.31		
		5230.0	18.39	18.47	18.40	18.35	24.42		
		5755.0	17.66	17.72	17.28	17.51	23.57		
		5795.0	17.59	17.60	17.51	17.49	23.57		
	447.0	5210.0	14.22	14.18	14.20	14.23	20.23		
 IEEE 802.11n 5 GHz 80 MHz	117.2	5775.0	18.23	18.42	17.80	18.34	24.22		
IEEE 002.11113 GHZ 80 MHZ	4700.0	5210.0	14.12	14.07	14.08	14.14	20.12		
	1733.2	5775.0	18.14	18.35	17.70	18.27	24.14		

Note: The relevant measured result has the offset with cable loss already.

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Beamforming on

Band	Date Rate	Frequency (MHz)		Average	Conducte (dBm)	ed power	
band	(Mbps)	(MHz)	ANT-0	ANT-1	ANT-2	ANT-3	ANT- 0+1+2+3
		2412.0	7.46	7.32	7.52	7.22	13.40
	13	2437.0	9.71	9.69	9.72	9.63	15.71
		2462.0	6.94	7.13	7.16	7.00	13.08
	28.8	2437.0	9.67	9.61	9.64	9.53	15.63
	43.4	2437.0	9.65	9.60	9.64	9.54	15.63
IEEE 802.11n 2.4 GHz 20 MHz	57.8	2437.0	9.64	9.59	9.63	9.57	15.63
	86.6	2437.0	9.63	9.64	9.68	9.55	15.65
	115.6	2437.0	9.65	9.57	9.66	9.56	15.63
	130	2437.0	9.66	9.56	9.60	9.54	15.61
	144.4	2437.0	9.64	9.58	9.61	9.53	15.61
	173.4	2437.0	9.61	9.61	9.62	9.54	15.62
		2422.0	5.82	5.90	5.79	5.88	11.87
	27	2437.0	8.68	8.54	8.63	8.55	14.62
		2452.0	5.72	5.67	5.85	5.55	11.72
	60	2437.0	8.58	8.44	8.53	8.50	14.53
	90	2437.0	8.57	8.45	8.50	8.47	14.52
IEEE 000 44 - 0 4 CH - 40 MH-	120	2437.0	8.56	8.50	8.54	8.46	14.54
IEEE 802.11n 2.4 GHz 40 MHz	180	2437.0	8.60	8.46	8.57	8.47	14.55
	240	2437.0	8.61	8.47	8.58	8.45	14.55
	270	2437.0	8.56	8.46	8.55	8.46	14.53
	300	2437.0	8.61	8.46	8.54	8.44	14.53
	360	2437.0	8.60	8.45	8.55	8.46	14.54
	400	2437.0	8.59	8.44	8.58	8.50	14.55

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	Date Rate	Frequency		Average	Conducte	ed power	
Band	(Mbps)	(MHz)	ANT-0	ANT-1	ANT-2	ANT-3	ANT- 0+1+2+3
		5180.0	9.86	9.75	9.92	9.84	15.86
		5200.0	9.81	9.78	9.96	9.88	15.88
		5220.0	9.80	9.85	9.97	9.80	15.88
		5240.0	9.83	9.80	9.93	9.83	15.87
	26	5745.0	11.98	12.13	12.19	12.22	18.15
		5765.0	12.13	12.25	12.14	12.19	18.20
		5785.0	11.95	12.05	11.99	12.10	18.04
		5805.0	12.07	12.13	12.07	12.08	18.11
IEEE 202 44 ac 20 MHz		5825.0	12.21	12.14	11.97	12.06	18.12
IEEE 802.11ac 20 MHz	346.8	5180.0	9.80	9.69	9.82	9.80	15.80
		5200.0	9.75	9.71	9.86	9.77	15.79
		5220.0	9.72	9.77	9.85	9.69	15.78
		5240.0	9.75	9.73	9.86	9.73	15.79
		5745.0	11.88	12.05	12.10	12.14	18.06
		5765.0	12.01	12.13	12.06	12.08	18.09
		5785.0	11.88	11.97	11.85	12.00	17.95
		5805.0	12.01	12.06	11.94	11.95	18.01
		5825.0	12.16	12.07	11.89	11.94	18.04
		5190.0	10.05	9.99	10.11	10.09	16.08
	F 4	5230.0	11.80	11.83	11.79	11.87	17.84
	54	5755.0	11.32	11.25	11.35	11.28	17.32
IEEE 000 44 aa 40 MH.		5795.0	11.34	11.20	11.40	11.24	17.32
IEEE 802.11ac 40 MHz		5190.0	9.96	9.89	10.04	9.95	15.98
	000	5230.0	11.71	11.71	11.70	11.73	17.73
	800	5755.0	11.21	11.20	11.27	11.19	17.24
		5795.0	11.23	11.13	11.30	11.14	17.22
	447.0	5210.0	7.91	7.86	8.02	7.97	13.96
IEEE 000 44 as 00 MHz	117.2	5775.0	11.90	11.80	11.89	11.82	17.87
IEEE 802.11ac 80 MHz	4700.0	5210.0	7.81	7.78	7.93	7.89	13.87
	1733.2	5775.0	11.82	11.72	11.77	11.70	17.77

Note:1. The relevant measured result has the offset with cable loss already.

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4. Test Results

Band	Data Rate (Mbps)	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	Power with Duty cycle [TP] (mW)	Power Density [S] (mw/cm²)
IEEE 802.11b		2412.0	1	20	25.00	3.11	2.04	1	645.1	0.128
	1	2437.0	1	20	25.00	3.11	2.04	1	645.1	0.128
		2462.0	1	20	25.00	3.11	2.04	1	645.1	0.128
	6	2412.0	1	20	23.00	3.11	2.04	1	407.03	0.081
IEEE 802.11g CDD		2437.0	1	20	23.00	3.11	2.04	1	407.03	0.081
000		2462.0	1	20	23.00	3.11	2.04	1	407.03	0.081
IEEE 802.11n		2412.0	1	20	22.50	3.11	2.04	1	362.77	0.072
2.4 GHz 20 MHz	26	2437.0	1	20	22.50	3.11	2.04	1	362.77	0.072
STBC		2462.0	1	20	22.50	3.11	2.04	1	362.77	0.072
IEEE 802.11n		2422.0	1	20	21.50	3.11	2.04	1	288.16	0.057
2.4 GHz 40 MHz STBC	54	2437.0	1	20	21.50	3.11	2.04	1	288.16	0.057
		2452.0	1	20	21.50	3.11	2.04	1	288.16	0.057

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Band	Data Rate (Mbps)	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	Power with Duty cycle [TP] (mW)	Power Density [S] (mw/cm²)
		5180.0	1	20	22.50	4.47	2.8	1	497.92	0.099
		5200.0	1	20	22.50	4.47	2.8	1	497.92	0.099
		5220.0	1	20	22.50	4.47	2.8	1	497.92	0.099
		5240.0	1	20	22.50	4.47	2.8	1	497.92	0.099
IEEE 802.11a CDD	6	5745.0	1	20	25.50	5.45	3.51	1	1245.39	0.248
CDD		5765.0	1	20	25.50	5.45	3.51	1	1245.39	0.248
		5785.0	1	20	25.50	5.45	3.51	1	1245.39	0.248
		5805.0	1	20	25.50	5.45	3.51	1	1245.39	0.248
		5825.0	1	20	25.50	5.45	3.51	1	1245.39	0.248
		5180.0	1	20	22.50	4.47	2.8	1	497.92	0.099
		5200.0	1	20	22.50	4.47	2.8	1	497.92	0.099
		5220.0	1	20	22.50	4.47	2.8	1	497.92	0.099
IEEE 802.11ac		5240.0	1	20	22.50	4.47	2.8	1	497.92	0.099
20 MHz	26	5745.0	1	20	25.00	5.45	3.51	1	1109.96	0.221
STBC		5765.0	1	20	25.00	5.45	3.51	1	1109.96	0.221
		5785.0	1	20	25.00	5.45	3.51	1	1109.96	0.221
		5805.0	1	20	25.00	5.45	3.51	1	1109.96	0.221
		5825.0	1	20	25.00	5.45	3.51	1	1109.96	0.221
		5190.0	1	20	25.00	4.47	2.8	1	885.44	0.176
IEEE 802.11ac 40 MHz	54	5230.0	1	20	25.00	4.47	2.8	1	885.44	0.176
STBC	J 4	5755.0	1	20	24.00	5.45	3.51	1	881.67	0.175
		5795.0	1	20	24.00	5.45	3.51	1	881.67	0.175
IEEE 802.11ac	447.0	5210.0	1	20	20.50	4.47	2.8	1	314.17	0.063
80 MHz STBC	117.2	5775.0	1	20	24.50	5.45	3.51	1	989.25	0.197

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Band	Data Rate (Mbps)	Frequency (MHz)	Limit (mw)	Distance [R] (cm)	Max tune-up Power (upper limit) [P] (dBm)	ANT Gain (dBi)	Numeric Gain [G]	Duty Cycle	Power with Duty cycle [TP] (mW)	Power Density [S] (mw/cm²)
IEEE 802.11n		2412.0	1	20	16.00	9.12	8.17	1	325.25	0.065
2.4 GHz 20 MHz	26	2437.0	1	20	16.00	9.12	8.17	1	325.25	0.065
BF ON		2462.0	1	20	16.00	9.12	8.17	1	325.25	0.065
IEEE 802.11n		2422.0	1	20	15.00	9.12	8.17	1	258.36	0.051
2.4 GHz 40 MHz	54	2437.0	1	20	15.00	9.12	8.17	1	258.36	0.051
BF ON		2452.0	1	20	15.00	9.12	8.17	1	258.36	0.051
		5180.0	1	20	16.00	10.49	11.19	1	445.48	0.089
		5200.0	1	20	16.00	10.49	11.19	1	445.48	0.089
		5220.0	1	20	16.00	10.49	11.19	1	445.48	0.089
IEEE 802.11ac		5240.0	1	20	16.00	10.49	11.19	1	445.48	0.089
20 MHz	26	5745.0	1	20	18.50	11.47	14.03	1	993.25	0.198
BF ON		5765.0	1	20	18.50	11.47	14.03	1	993.25	0.198
		5785.0	1	20	18.50	11.47	14.03	1	993.25	0.198
		5805.0	1	20	18.50	11.47	14.03	1	993.25	0.198
		5825.0	1	20	18.50	11.47	14.03	1	993.25	0.198
		5190.0	1	20	18.00	10.49	11.19	1	706.04	0.140
IEEE 802.11ac	54	5230.0	1	20	18.00	10.49	11.19	1	706.04	0.140
40 MHz BF ON) 3 4	5755.0	1	20	17.50	11.47	14.03	1	788.96	0.157
		5795.0	1	20	17.50	11.47	14.03	1	788.96	0.157
IEEE 802.11ac	447.0	5210.0	1	20	14.50	10.49	11.19	1	315.38	0.063
80 MHz BF ON	117.2	5775.0	1	20	18.00	11.47	14.03	1	885.23	0.176

Note:

- 1. Mobile or fixed location transmitters, minimum separation distance is 20cm, even if calculations indicate MPE distance is less.
- 2. The Numeric Gain calculated by 10^(ant. Gain(dBi) /10).
- 3. Each band max power which perform MPE of any configurations.
- 4. The MPE results are evaluated by lowest data rate for WLAN.
- 5. The device operating IEEE 802.11 a/b/g mode is 4TX CDD.
- 6. The device operating IEEE 802.11 n/ac mode is 4TX STBC / Beamforming on.

Simultaneous Transmitting:

Total MPE = 2.4GHz MPE + 5GHz MPE = 0.128 + 0.248 = 0.376 (mw)/cm 2 < 1 (mw)/cm 2

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