MPE Report

Applicant	:	EnGenius Technologies
Product Type	:	11ax Indoor Managed Access Point (For：EWS377AP v3) 11ax Cloud Managed Access Point (For：ECW230 v3)
Trade Name	:	EnGenius
Model Number	:	EWS377AP v3, ECW230 v3
Applicable Standard	:	IEEE Std.C95.1 47 CFR § 2.1091 / 47 CFR § 1.1310
Received Date	:	Feb. 09, 2021
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Issued by

Approved By : Kris Pan

(Kris Pan)

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Taiwan Accreditation Foundation accreditation number: 1330
Test Firm MRA designation number: TW0010

Note:

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Revision History

Rev.	Issued Date	Revisions	Revised By
00	Mar. 16, 2021	Initial Issue	Nicole Chu
01	Jun. 16, 2021	Revised 4.1 chapter (P.11~P.16)	Nicole Chu
02	Jul. 07, 2021	Revised 4.1 chapter (P.08~P.15) Revised 5 chapter (P.16)	Nicole Chu

Contents

1. Reference Applicable Standard

Standard	Description	Version
IEEE C95.1	American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 300 KHz to 100 GHz, New York.	1992
47 CFR Part §2.1091	Radiofrequency radiation exposure evaluation: mobile devices.	-
47 CFR Part §1.1310	Radiofrequency radiation exposure limits.	-

2. Description of Equipment under Test (EUT)

Applicant	EnGenius Technologies 1580 Scenic Avenue, Costa Mesa, CA 92626			
Manufacturer	Senao Networks . Inc. No. 500, Fusing 3rd Rd., Hwa Ya Technology Park, Kuei-shan District, Taoyuan City 333, Taiwan			
Product Type	11ax Indoor Managed Access Point (For：EWS377AP v3) 11ax Cloud Managed Access Point (For：ECW230 v3)			
Trade Name	EnGenius			
Model Number	EWS377AP v3, ECW230 v3			
FCC ID	A8J-EWS377APV3A			
Models different description	All models are electrically identical, different model names are for marketing purpose.			
Frequency Range	Operate Band			Frequency Range (MHz)
	IEEE 802.11b/g/n/ax 2.4 GHz 20 MHz (256-QAM)			2412 - 2462
	IEEE 802.11n/ax 2.4 GHz 40 MHz (256-QAM)			2422 - 2452
	IEEE 802.11a/n/ac/ax 5 GHz 20 MHz U-NII Band I			5180 - 5240
	IEEE 802.11a/n/ac/ax 5 GHz 20 MHz U-NII Band II-A			5260 - 5320
	IEEE 802.11a/n/ac/ax 5 GHz 20 MHz U-NII Band II-C			5500 - 5700
	IEEE 802.11a/n/ac/ax 5 GHz 20 MHz U-NII Band III			5745 - 5825
	IEEE 802.11n/ac/ax 5 GHz 40 MHz U-NII Band I			5190 - 5230
	IEEE 802.11n/ac/ax 5 GHz 40 MHz U-NII Band II-A			5270 - 5310
	IEEE 802.11n/ac/ax 5 GHz 40 MHz U-NII Band II-C			5510 - 5670
	IEEE 802.11n/ac/ax 5 GHz 40 MHz U-NII Band III			5755 - 5795
	IEEE 802.11ac/ax 5 GHz 80 MHz U-NII Band I			5210
	IEEE 802.11ac/ax 5 GHz 80 MHz U-NII Band II-A			5290
	IEEE 802.11ac/ax 5 GHz 80 MHz U-NII Band II-C			5530
	IEEE 802.11ac/ax 5 GHz 80 MHz U-NII Band III			5775
Antenna Information	Model	Type	Max. Gain (dBi)	
	5718A0514300	PIFA Antenna	2412 - 2472	3.70
	5718A0515300	PIFA Antenna	2412 - 2472	4.08
	5718A0516300	PIFA Antenna	2412 - 2472	4.12
	5718A0517300	PIFA Antenna	2412 - 2472	5.01
	G_{ANT}			4.25
	Directional			10.26

	5718A0518300	PIFA Antenna	5150~5250	5.13
			5250~5350	5.13
			5470~5725	5.19
			5725~5850	5.19
	5718A0522300	PIFA Antenna	5150~5250	4.26
			5250~5350	4.26
			5470~5725	4.26
			5725~5850	3.81
	5718A0520300	PIFA Antenna	5150~5250	4.03
			5250~5350	4.03
			5470~5725	4.56
			5725~5850	4.56
	5718A0521300	PIFA Antenna	5150~5250	5.04
			5250~5350	5.04
			5470~5725	5.04
			5725~5850	5.04
	G_{ANT}		5150~5250	4.64
			5250~5350	4.64
			5470~5725	4.78
			5725~5850	4.68
	Directional		5150~5250	10.65
			5250~5350	10.65
			5470~5725	10.79
			5725~5850	10.69
Antenna Delivery	IEEE 802.11b/g: 4TX / 4RX (CDD) IEEE 802.11n/ax 2.4 GHz 20 MHz / 40 MHz: 4TX / 4RX (STBC / Beamforming on) IEEE 802.11a: 4TX / 4RX(CDD) IEEE 802.11n/ac/ax 20 MHz / 40 MHz / 80 MHz: 4TX / 4RX (MIMO / Beamforming on)			
RF Evaluation	0.512 mW/cm^2			
Operate Temp. Range	0 ~ +40°C			

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 / 47 CFR § 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.

3. 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
$$S_{eirp} = \frac{EIRP}{4\pi d^2} = \frac{PG}{4\pi d^2}\left(W/m^2\right)$$

Where

S: is the input power (W);

G: is the antenna gain;

d : is the distance between antennas and evaluation point (m).

4. Power Density Limit – RF Exposure Evaluation

Thv In 47 CFR § 1.1310, use of the device as based upon the user's awareness and ability to exercise control over human exposure. The two categories defined are Occupational / Controlled Exposure and General Population / Uncontrolled. These two categories are defined as follow:

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 / 1,500	30
1,500-100,000	-	-	1.0	30
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	1,842 / f	4.89 / f	($900 / f^2$)*	6
30-300	61.4	0.163	1.0	6
300-1,500	-	-	F / 300	6
1,500-100,000	-	-	5	6

4.1 *Conducted Power*

Beamforming off

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11b	1M	1	2412	19.22	19.61	19.26	19.32	25.38
		6	2437	19.52	19.11	19.19	19.22	25.28
		11	2462	19.61	19.65	19.42	19.51	25.57
802.11g	6M	1	2412	16.66	16.82	16.58	16.64	22.70
		6	2437	19.24	19.35	19.15	19.14	25.24
		11	2462	16.74	16.83	16.69	16.71	22.76
802.11n_HT20	26M	1	2412	17.34	17.28	16.84	16.81	23.09
		6	2437	19.31	19.34	19.02	18.94	25.18
		11	2462	16.77	16.62	16.42	16.54	22.61
802.11n_HT40	54M	3	2422	16.81	16.84	16.82	16.74	22.82
		6	2437	17.54	17.57	17.49	17.51	23.55
		9	2452	15.44	15.52	15.47	15.42	21.48
Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11ax_HE20	MCS0	1	2412	16.72	16.81	16.54	16.58	22.68
		6	2437	19.21	19.32	19.14	19.08	25.21
		11	2462	14.74	14.82	14.58	14.64	20.72
802.11ax_HE40	MCS0	3	2422	15.82	15.96	15.81	15.88	21.89
		6	2437	16.54	16.71	16.74	16.66	22.68
		9	2452	14.41	14.58	14.52	14.51	20.53

Beamforming on

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11n_HT20 (256-QAM)	26M	1	2412	10.76	10.84	10.42	10.59	16.68
		6	2437	13.01	13.04	12.74	12.72	18.90
		11	2462	10.58	10.39	9.86	9.92	16.22
802.11n_HT40 (256-QAM)	54M	3	2422	10.42	10.45	10.26	10.49	16.43
		6	2437	11.14	11.19	10.91	10.94	17.07
		9	2452	9.06	8.99	8.85	8.95	14.98
Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	16.68	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11ax_HE20	MCS0	1	2412	10.34	10.32	10.22	10.25	16.30
		6	2437	13.04	13.04	12.94	12.91	19.00
		11	2462	8.23	8.46	8.18	8.14	14.27
802.11ax_HE40	MCS0	3	2422	9.46	9.42	9.29	9.42	15.42
		6	2437	10.21	10.28	10.04	10.13	16.19
		9	2452	8.06	8.11	7.99	8.02	14.07

Beamforming off

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11a	6M	36	5180	16.51	16.71	16.48	16.81	22.65
		40	5200	16.48	16.69	16.51	16.84	22.65
		44	5220	16.46	16.65	16.45	16.79	22.61
		48	5240	16.61	16.91	16.54	16.86	22.75
		52	5260	11.35	10.86	10.61	11.09	17.01
		56	5280	12.01	11.07	11.41	11.45	17.52
		60	5300	11.52	10.99	10.73	11.28	17.16
		64	5320	11.54	10.96	10.86	11.19	17.17
		100	5500	11.16	10.66	10.63	10.72	16.82
		104	5520	10.98	10.23	10.36	10.13	16.46
		108	5540	10.95	10.21	10.38	10.17	16.46
		112	5560	11.19	10.34	10.43	10.21	16.58
		116	5580	11.07	10.16	10.33	10.16	16.47
		132	5660	10.51	9.98	10.08	10.07	16.19
		136	5680	10.55	9.93	10.13	10.20	16.23
		140	5700	10.54	9.99	10.19	10.47	16.32
		149	5745	19.24	18.94	19.51	19.32	25.28
		153	5765	19.28	18.78	19.46	19.39	25.26
		157	5785	19.31	18.82	19.54	19.41	25.30
		161	5805	19.25	18.80	19.51	19.35	25.26
		165	5825	19.52	19.15	19.61	19.46	25.46
802.11ac_VHT20	26M	36	5180	18.22	18.34	18.32	18.38	24.34
		40	5200	19.32	19.24	19.14	19.35	25.28
		44	5220	19.29	19.20	19.11	19.29	25.24
		48	5240	19.41	19.34	19.24	19.31	25.35
		52	5260	16.51	16.12	16.07	16.26	22.26
		56	5280	16.82	16.42	16.32	16.61	22.57
		60	5300	16.76	16.25	16.28	16.51	22.48
		64	5320	17.22	16.27	16.34	16.59	22.64
		100	5500	16.07	15.52	15.51	15.61	21.70
		104	5520	16.05	15.41	15.55	15.55	21.67
		108	5540	15.95	15.33	15.49	15.58	21.61
		112	5560	16.35	15.42	15.57	15.60	21.77
		116	5580	16.31	15.40	15.44	15.52	21.70
		132	5660	16.02	15.29	15.38	15.51	21.58
		136	5680	16.04	15.34	15.35	15.56	21.60
		140	5700	15.97	15.44	15.46	15.72	21.67
		149	5745	19.14	18.80	19.28	19.22	25.13
		153	5765	19.20	18.79	19.39	19.25	25.18
		157	5785	19.22	18.85	19.45	19.32	25.24
		161	5805	19.19	18.82	19.42	19.29	25.21
		165	5825	19.48	18.82	19.42	19.34	25.29

Beamforming off

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11ac_VHT40	54M	38	5190	16.64	16.74	16.68	16.91	22.76
		46	5230	19.51	19.68	19.48	19.61	25.59
		54	5270	18.00	17.45	17.62	17.71	23.72
		62	5310	16.76	16.04	16.28	16.64	22.46
		102	5510	17.73	17.07	17.09	17.43	23.36
		110	5550	18.14	17.57	17.53	17.60	23.74
		134	5670	17.66	17.34	17.16	17.33	23.40
		151	5755	19.21	19.18	19.82	19.44	25.44
		159	5795	19.48	19.12	19.95	19.51	25.55
802.11ac_VHT80	117.2M	42	5210	16.44	16.48	16.22	16.61	22.46
		58	5290	16.41	16.34	16.42	16.55	22.45
		106	5530	16.61	16.14	15.92	16.22	22.25
		155	5775	19.22	18.94	19.81	19.34	25.36
802.11ax_HE20	MCS 0	36	5180	18.12	18.21	18.18	18.22	24.20
		40	5200	19.61	19.51	19.24	19.54	25.50
		44	5220	19.55	19.48	19.20	19.48	25.45
		48	5240	19.72	19.61	19.31	19.58	25.58
		52	5260	16.84	16.04	16.29	16.50	22.45
		56	5280	17.27	16.42	16.57	16.81	22.80
		60	5300	16.92	16.31	16.41	16.61	22.59
		64	5320	16.74	15.92	16.14	16.49	22.35
		100	5500	16.37	15.61	15.88	15.83	21.95
		104	5520	16.11	15.17	15.27	15.60	21.57
		108	5540	16.16	15.14	15.26	15.58	21.57
		112	5560	16.29	15.24	15.32	15.64	21.66
		116	5580	16.16	15.15	15.30	15.61	21.59
		132	5660	15.72	14.92	15.27	15.41	21.36
		136	5680	15.54	15.14	15.22	15.53	21.38
		140	5700	15.64	15.03	15.29	15.62	21.42
		149	5745	19.14	18.82	19.65	19.34	25.27
		153	5765	19.22	19.00	19.66	19.31	25.32
		157	5785	19.31	19.02	19.71	19.35	25.38
		161	5805	19.29	18.97	19.62	19.28	25.32
		165	5825	19.64	19.21	19.61	19.66	25.55

Beamforming off

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11ax_HE40	MCS 0	38	5190	16.82	16.88	16.92	17.01	22.93
		46	5230	19.64	19.91	19.58	19.82	25.76
		54	5270	18.16	17.55	17.84	17.91	23.89
		62	5310	16.82	16.14	16.42	16.60	22.52
		102	5510	17.68	17.41	17.34	17.51	23.51
		110	5550	18.12	17.62	17.63	17.66	23.78
		134	5670	17.81	17.44	17.40	17.41	23.54
		151	5755	19.32	19.14	19.92	19.64	25.54
		159	5795	19.54	19.24	19.96	19.82	25.67
802.11ax_HE80	MCS 0	42	5210	16.14	16.19	15.92	16.21	22.14
		58	5290	16.64	16.52	16.74	16.82	22.70
		106	5530	16.81	16.42	16.22	16.54	22.52
		155	5775	19.32	19.14	19.94	19.52	25.51

Beamforming on

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11ac_VHT20	26M	36	5180	11.91	12.14	12.18	12.14	18.11
		40	5200	12.95	13.11	12.97	13.13	19.06
		44	5220	12.93	13.08	12.92	13.10	19.03
		48	5240	10.16	9.78	9.58	9.79	19.24
		52	5260	10.43	9.84	10.09	10.27	15.85
		56	5280	10.41	9.64	9.73	10.20	16.18
		60	5300	10.38	9.59	9.99	10.19	16.03
		64	5320	9.36	8.99	9.08	9.15	16.07
		100	5500	9.66	8.81	8.98	9.07	15.17
		104	5520	9.64	8.74	9.06	9.10	15.16
		108	5540	9.81	8.86	9.26	9.14	15.17
		112	5560	9.76	8.76	9.08	9.09	15.30
		116	5580	9.66	8.83	9.19	9.05	15.21
		132	5660	9.56	8.78	9.16	9.04	15.21
		136	5680	9.72	9.06	9.36	9.35	15.16
		140	5700	13.14	13.33	13.15	13.25	15.40
		149	5745	12.76	12.74	13.18	13.15	18.98
		153	5765	12.75	12.64	13.10	13.06	18.91
		157	5785	12.81	12.68	13.14	13.12	18.96
		161	5805	12.77	12.65	13.09	13.09	18.92
		165	5825	13.23	12.80	13.34	13.28	19.19
802.11ac_VHT40	54M	38	5190	10.26	10.42	10.22	10.33	16.33
		46	5230	13.21	13.41	13.28	13.36	19.34
		54	5270	11.75	11.25	11.47	11.60	17.54
		62	5310	10.35	9.79	10.07	10.17	16.12
		102	5510	11.16	10.66	10.82	10.94	16.92
		110	5550	11.73	11.18	11.06	11.27	17.34
		134	5670	11.28	11.02	10.88	10.86	17.03
		151	5755	12.84	12.85	13.64	13.17	19.16
		159	5795	13.22	12.78	13.68	13.34	19.29
802.11ac_VHT80	117.2M	42	5210	10.06	10.09	9.98	10.07	16.07
		58	5290	10.16	9.93	10.12	10.28	16.14
		106	5530	10.32	9.59	9.68	9.82	15.88
		155	5775	12.86	12.67	13.51	13.14	19.08

Beamforming on

Band	Date Rate or Sub-test	CH	Frequency (MHz)	ANT-0	ANT-1	ANT-2	ANT-3	All ANT
				Average Conducted power				
				dBm	dBm	dBm	dBm	dBm
802.11ax_HE20	MCS 0	36	5180	11.81	12.04	11.97	11.94	17.96
		40	5200	13.25	13.41	13.18	13.34	19.32
		44	5220	13.21	13.44	13.12	13.30	19.29
		48	5240	13.51	13.57	13.28	13.51	19.49
		52	5260	10.59	9.87	9.81	10.07	16.12
		56	5280	10.93	9.97	10.41	10.68	16.53
		60	5300	10.36	9.93	10.14	10.25	16.19
		64	5320	10.16	9.37	9.76	10.10	15.88
		100	5500	9.93	9.39	9.46	9.42	15.58
		104	5520	9.36	8.32	8.89	8.84	14.89
		108	5540	9.39	8.36	8.99	8.87	14.94
		112	5560	9.66	8.37	9.06	8.97	15.06
		116	5580	9.55	8.31	8.95	8.88	14.97
		132	5660	8.74	8.29	8.80	8.75	14.67
		136	5680	8.90	8.25	8.78	8.92	14.74
		140	5700	8.93	8.36	8.82	9.06	14.82
		149	5745	13.02	12.78	13.54	13.31	19.19
		153	5765	13.01	12.73	13.51	13.26	19.16
		157	5785	13.09	12.82	13.58	13.30	19.23
		161	5805	13.06	12.77	13.55	13.22	19.18
		165	5825	13.54	13.04	13.60	13.55	19.46
802.11ax_HE40	MCS 0	38	5190	10.36	10.46	10.29	10.41	16.40
		46	5230	13.24	13.56	13.25	13.44	19.40
		54	5270	11.80	11.27	11.59	11.74	17.63
		62	5310	10.38	9.97	10.12	10.17	16.18
		102	5510	11.42	10.88	11.21	11.16	17.19
		110	5550	11.86	11.29	11.36	11.42	17.51
		134	5670	11.45	11.12	11.06	10.97	17.17
		151	5755	12.94	13.02	13.74	13.44	19.32
		159	5795	13.26	12.97	13.72	13.57	19.41
802.11ax_HE80	MCS 0	42	5210	9.68	9.76	9.59	9.86	15.74
		58	5290	10.38	10.19	10.57	10.47	16.43
		106	5530	10.61	9.98	10.03	10.07	16.20
		155	5775	13.08	12.97	13.74	13.48	19.35

5. Test Result.

Antenna	Band	Frequency (MHz)	Limit (mW)/cm²	Distance	Tune-up Power	ANT Gain	Numeric Gain	Duty Cycle	Power with Duty cycle	Power Density
				(cm)	(dBm)				(mW)	(mW)/cm²
				[R]	[P]	(dBi)	[G]		[P]x[G]	[S]
Wi-Fi Antenna	2.4GHz	2412-2462	1.0	20	26.00	5.01	3.17	1	1262.00	0.251
	5GHz	5150-5250	1.0	20	26.00	5.13	3.26	1	1297.83	0.258
		5250-5350	1.0	20	24.00	5.13	3.26	1	818.87	0.163
		5470-5725	1.0	20	24.00	5.19	3.30	1	828.92	0.165
		5725-5850	1.0	20	26.00	5.19	3.30	1	1313.75	0.261
Wi-Fi Antenna (Beamforming)	2.4GHz	2412-2462	1.0	20	20.00	10.26	10.62	1	1062.00	0.211
	5GHz	5150-5250	1.0	20	20.00	10.65	11.61	1	1161.00	0.231
		5250-5350	1.0	20	18.00	10.65	11.61	1	732.54	0.146
		5470-5725	1.0	20	18.00	10.79	11.99	1	756.52	0.151
		5725-5850	1.0	20	20.00	10.69	11.72	1	1172.00	0.233

Note:

1. Mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less.
2. We used the maximum power and gain to provide MPE results..
3. The Numeric Gain calculated by 10^(ant. Gain(dBi) /10)..
4. The MPE results are evaluated by lowest data rate for WLAN

Simultaneous Transmitting：

Total MPE = 2.4GHz MPE + 5GHz MPE = 0.251 + 0.261 = 0.512 (mW)/cm² < 1 (mW)/cm²

---END---