

**Dynascan Technology Corp.**

# TEST REPORT

**Model:**  
FBP205

**REPORT NUMBER**  
220900341THC-001

**ISSUE DATE**  
Oct. 28, 2022

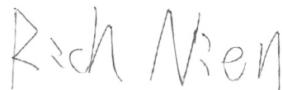
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# Maximum Permissible Exposure (MPE) Evaluation Report

<b>Applicant:</b>	Dynascan Technology Corp. 6F., No. 88, Wenmao Rd., Guishan Dist., Taoyuan City 333001, Taiwan
<b>Product:</b>	Digital Transmission Systems
<b>Model No.:</b>	FBP205
<b>FCC ID:</b>	2AKWYFBP205
<b>Test Method/ Standard:</b>	47 CFR FCC 1.1310 KDB 447498
<b>Test By:</b>	Intertek Testing Services Taiwan Ltd., Hsinchu Laboratory No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li, Shiang-Shan District, Hsinchu City, Taiwan



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**Revision History**

<b>Report No.</b>	<b>Issue Date</b>	<b>Revision Summary</b>
220900341THC-001	Oct. 28, 2022	<ol style="list-style-type: none"><li>1. This case is to add different Host(Product Name: 55" Display, Model No.: 64428), so the FCC C2PC (Conducted Output Power, Spurious Emission, Band Edge, and AC Conducted Emissions) is exeuted.</li><li>2. FCC Original Grant Date: 07/01/2022, FCC ID: 2AKWYFBP205</li></ol>

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Summary of Tests

**MPE Evaluation meet FCC OET No. 65: 1997, IEEE C95.1-2005**

Test	Reference	Results
MPE Evaluation	FCC Guidelines for Human Exposure IEEE C95.1	Complies

Note: Please note that the test results with statement of conformity, the decision rules which are based on: Safety Testing: the specification, standard or IEC Guide 115.

Other Testing: the specification, standard and not taking into account the measurement uncertainty.

## 1. General Information

### 1.1 Identification of the EUT

<b>Product:</b>	Digital Transmission System
<b>Model No.:</b>	FBP205
<b>Operating Frequency:</b>	1. 2412MHz ~ 2462MHz 2. 5180MHz ~ 5240MHz 3. 5745MHz ~ 5825MHz
<b>Channel Number:</b>	1. 11 channels for 2412MHz ~ 2462MHz 2. 7 channels for 5180MHz ~ 5240MHz 3. 8 channels for 5745MHz ~ 5825MHz
<b>Access scheme:</b>	DSSS, OFDM
<b>Rated Power:</b>	DC 3.3V
<b>Power Cord:</b>	N/A
<b>Sample receiving date:</b>	2022/09/19
<b>Sample condition:</b>	Workable
<b>Test Date(s):</b>	2022/09/30 ~ 2022/10/11

### 1.2 Description of the EUT

Modulation mode	Transmit path	
	Chain 0	Chain 1
802.11b	V	V
802.11g	V	V
802.11 n (HT20)	V	V
802.11 n (HT40)	V	V
802.11 a	V	V
802.11 ac (VHT20)	V	V
802.11 ac (VHT40)	V	V
802.11 ac (VHT80)	V	V

Item	Product name	Model No.	Rated Power
Host	55" Display	64428	100-240V~ 50/60Hz 3A

### 1.3 Antenna description

#### WiFi 2.4GHz

##### For antenna 0 (Chain 0)

Antenna Gain : -3.04 dBi  
Antenna Type : PIFA antenna  
Connector Type : I-pex

##### For antenna 1 (Chain 1)

Antenna Gain : -3.04 dBi  
Antenna Type : PIFA antenna  
Connector Type : I-pex

#### WiFi 5GHz

##### For antenna 0 (Chain 0)

Antenna Gain : -2.31 dBi  
Antenna Type : PIFA antenna  
Connector Type : I-pex

##### For antenna 1 (Chain 1)

Antenna Gain : -2.31 dBi  
Antenna Type : PIFA antenna  
Connector Type : I-pex

## 2. Test specifications

### 2.1 Introduction

The EUT operates in the 2.4 and 5 GHz band. Due to the EUT (include antenna) at its normal operation distance is at least 20 cm from the human body, the EUT was defined as a Mobile Device.

The reason to do the MPE Evaluation is to avoid the RF hazard to human body. The maximum output power and gain of the antenna were used to calculate the limited Power density (S) at 20 cm distance away from the product. The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 and Safety Code 6 are followed.

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.



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**2.2 RF Exposure Limit**

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in 1.1307(b) and KDB 447498 D01 General RF Exposure Guidance v06.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(i) Limits for Occupational/Controlled Exposure</b>				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500-100,000			5	<6
<b>(ii) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500-100,000			1.0	<30

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**SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm**

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	

**Note:** 10-g Extremity SAR Test Exclusion Power Thresholds are 2.5 times higher than the 1-g SAR Test Exclusion Thresholds indicated above. These thresholds do not apply, by extrapolation or other means, to occupational exposure limits.

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**SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and > 50 mm**

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table.

MHz	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
150	387	397	407	417	427	437	447	457	467	477	487	497	507	517	527	
300	274	294	314	334	354	374	394	414	434	454	474	494	514	534	554	
450	224	254	284	314	344	374	404	434	464	494	524	554	584	614	644	
835	164	220	275	331	387	442	498	554	609	665	721	776	832	888	943	
900	158	218	278	338	398	458	518	578	638	698	758	818	878	938	998	
1500	122	222	322	422	522	622	722	822	922	1022	1122	1222	1322	1422	1522	
1900	109	209	309	409	509	609	709	809	909	1009	1109	1209	1309	1409	1509	
2450	96	196	296	396	496	596	696	796	896	996	1096	1196	1296	1396	1496	
3600	79	179	279	379	479	579	679	779	879	979	1079	1179	1279	1379	1479	
5200	66	166	266	366	466	566	666	766	866	966	1066	1166	1266	1366	1466	
5400	65	165	265	365	465	565	665	765	865	965	1065	1165	1265	1365	1465	
5800	62	162	262	362	462	562	662	762	862	962	1062	1162	1262	1362	1462	

**SAR Test Exclusion Thresholds for < 100 MHz and < 200 mm**

Approximate SAR test exclusion power thresholds at selected frequencies and test separation distances are illustrated in the following table.

MHz	< 50	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	mm
100	237	474	481	487	494	501	507	514	521	527	534	541	547	554	561	567	mW
50	308	617	625	634	643	651	660	669	677	686	695	703	712	721	729	738	
10	474	948	961	975	988	1001	1015	1028	1041	1055	1068	1081	1095	1108	1121	1135	
1	711	1422	1442	1462	1482	1502	1522	1542	1562	1582	1602	1622	1642	1662	1682	1702	
0.1	948	1896	1923	1949	1976	2003	2029	2056	2083	2109	2136	2163	2189	2216	2243	2269	
0.05	1019	2039	2067	2096	2125	2153	2182	2211	2239	2268	2297	2325	2354	2383	2411	2440	
0.01	1185	2370	2403	2437	2470	2503	2537	2570	2603	2637	2670	2703	2737	2770	2803	2837	

### 2.3 RF Exposure calculations

From §FCC 1.1310 table 1, the maximum permissible RF exposure for an uncontrolled environment is 1 mW/(cm<sup>2</sup>) (or 10 W/m<sup>2</sup>)\*

Power density (S) is calculated by the following formula:

$$S = (P * G) / 4\pi R^2$$

where, S = Power density (mW/cm<sup>2</sup>)

P = Output power to antenna (mW)

R = Distance between radiating structure and observation point (cm)

G = Gain of antenna in numeric

$\pi = 3.1416$

Example:

Assume a mobile device operates at 2412MHz and its maximum output power is 50mW, and the maximum gain of antenna is 1 (numeric) /0dBi.

then the power density (S) =  $(50 * 1) / 4 * \pi * 20^2 = 0.00995$  (mW/cm<sup>2</sup>) (or = 0.0995 W/m<sup>2</sup>)

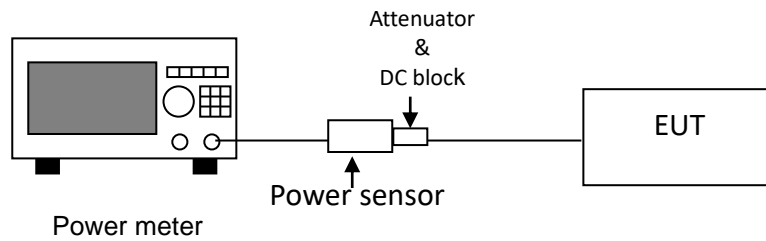
### 2.4 Operation mode

Power on, executing “WLAN Test Tool V2.3.0” to select different frequency and modulation.

## 2.5 Test equipment

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
Power Meter	Anritsu	ML2495A	0844001	2022/07/04	2023/07/03
Power Sensor	Anritsu	MA2491A	031543	2022/03/07	2023/03/06

## 2.6 Test Set-up



**Remark: Cable loss = 21 dB**

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**3. Test results**

Temperature (°C) :	26
Relative Humidity (%) :	55
Test date :	2022/10/5
Host :	64428

Mode	Channel	Frequency (MHz)	Antenna Gain0 (numeric)	Output power to antenna 0 (dBm)	Antenna Gain1 (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dBm)	"Max Tune-up Power to antenna 0 (dBm)	"Max Tune-up Power to antenna 1 (dBm)
802.11b (Chain0+1)	1	2412	0.50	23.32	0.50	21.55	2.00	25.32	23.55
	6	2437	0.50	23.06	0.50	20.89	2.00	25.06	22.89
	11	2462	0.50	24.30	0.50	22.86	2.00	26.30	24.86

Mode	Channel	Frequency (MHz)	"Max Tune-up Power to antenna 0 (mW)	"Max Tune-up Power to antenna 1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11b (Chain0+1)	1	2412	340.41	226.46	0.03	0.02	0.06	1.0
	6	2437	320.63	194.54	0.03	0.02	0.05	1.0
	11	2462	426.58	306.20	0.04	0.03	0.07	1.0

Mode	Channel	Frequency (MHz)	Antenna Gain0 (numeric)	Output power to antenna 0 (dBm)	Antenna Gain1 (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dBm)	"Max Tune-up Power to antenna 0 (dBm)	"Max Tune-up Power to antenna 1 (dBm)
802.11g (Chain0+1)	1	2412	0.50	25.07	0.50	24.30	2.00	27.07	26.30
	6	2437	0.50	25.09	0.50	24.26	2.00	27.09	26.26
	11	2462	0.50	25.52	0.50	24.60	2.00	27.52	26.60

Mode	Channel	Frequency (MHz)	"Max Tune-up Power to antenna 0 (mW)	"Max Tune-up Power to antenna 1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11g (Chain0+1)	1	2412	509.33	426.58	0.05	0.04	0.09	1.00
	6	2437	511.68	422.67	0.05	0.04	0.09	1.00
	11	2462	564.94	457.09	0.06	0.05	0.10	1.00

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Mode	Channel	Frequency (MHz)	Antenna Gain0 (numeric)	Output power to antenna 0 (dBm)	Antenna Gain1 (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dBm)	"Max Tune-up Power to antenna 0 (dBm)	"Max Tune-up Power to antenna 1 (dBm)
802.11n (HT20) (Chain0+1)	1	2412	0.50	24.35	0.50	22.61	2.00	26.35	24.61
	6	2437	0.50	23.42	0.50	23.34	2.00	25.42	25.34
	11	2462	0.50	25.50	0.50	23.22	2.00	27.50	25.22

Mode	Channel	Frequency (MHz)	"Max Tune-up Power to antenna 0 (mW)	"Max Tune-up Power to antenna 1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11n (HT20) (Chain0+1)	1	2412	431.52	289.07	0.04	0.03	0.07	1.0
	6	2437	348.34	341.98	0.03	0.03	0.07	1.0
	11	2462	562.34	332.66	0.06	0.03	0.09	1.0

Mode	Channel	Frequency (MHz)	Antenna Gain0 (numeric)	Output power to antenna 0 (dBm)	Antenna Gain1 (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dBm)	"Max Tune-up Power to antenna 0 (dBm)	"Max Tune-up Power to antenna 1 (dBm)
802.11n (HT40) (Chain0+1)	3	2422	0.50	24.35	0.50	23.34	2.00	26.35	25.34
	6	2437	0.50	22.99	0.50	22.04	2.00	24.99	24.04
	9	2452	0.50	24.00	0.50	23.33	2.00	26.00	25.33

Mode	Channel	Frequency (MHz)	"Max Tune-up Power to antenna 0 (mW)	"Max Tune-up Power to antenna 1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11n (HT40) (Chain0+1)	1	2412	431.52	341.98	0.04	0.03	0.08	1.0
	6	2437	315.50	253.51	0.03	0.03	0.06	1.0
	11	2462	398.11	341.19	0.04	0.03	0.07	1.0

The Notice in Installation Manual has been stated as below:

While installing and operating this transmitter, the radio frequency exposure limit of 1 mW/ (cm<sup>2</sup>) may be exceeded at distances close to the transmitter. Therefore, the user must maintain a minimum distance of 20 cm from the device at all time.

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Mode	Channel	Frequency (MHz)	Antenna 0 Gain (numeric)	Output power to antenna 0 (dBm)	Antenna 1 Gain (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dB)	Max AV Tune-up Power to antenna 0 (dBm)	Max AV Tune-up Power to antenna 1 (dBm)
802.11a	36	5180	0.59	9.59	0.59	10.03	2.00	11.59	12.03
	44	5220	0.59	11.59	0.59	9.81	2.00	13.59	11.81
	48	5240	0.59	14.95	0.59	12.90	2.00	16.95	14.90
	149	5745	0.59	18.88	0.59	18.35	2.00	20.88	20.35
	157	5785	0.59	19.00	0.59	18.09	2.00	21.00	20.09
	165	5825	0.59	18.51	0.59	18.84	2.00	20.51	20.84

Mode	Channel	Frequency (MHz)	Max AV Tune-up Power to antenna 0 (mW)	Max AV Tune-up Power to antenna 1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11a	36	5180	14.421	15.959	0.002	0.002	0.004	1.0
	44	5220	22.856	15.171	0.003	0.002	0.004	1.0
	48	5240	49.545	30.903	0.006	0.004	0.009	1.0
	149	5745	122.462	108.393	0.014	0.013	0.027	1.0
	157	5785	125.893	102.094	0.015	0.012	0.027	1.0
	165	5825	112.460	121.339	0.013	0.014	0.027	1.0

The Notice in Installation Manual has been stated as below:

While installing and operating this transmitter, the radio frequency exposure limit of 1 mW/ (cm<sup>2</sup>) may be exceeded at distances close to the transmitter. Therefore, the user must maintain a minimum distance of 20 cm from the device at all time.



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Mode	Channel	Frequency (MHz)	Antenna0 Gain (numeric)	Output power to antenna 0 (dBm)	Antenna1 Gain (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dB)	Max AV Tune-up Power to antenna 0 (dBm)	Max AV Tune-up Power to antenna 1 (dBm)
802.11ac (VHT20)	36	5180	0.59	7.47	0.59	6.37	2.00	9.47	8.37
	44	5220	0.59	8.82	0.59	8.87	2.00	10.82	10.87
	48	5240	0.59	14.43	0.59	13.50	2.00	16.43	15.50
	149	5745	0.59	18.95	0.59	18.27	2.00	20.95	20.27
	157	5785	0.59	18.90	0.59	18.47	2.00	20.90	20.47
	165	5825	0.59	18.34	0.59	18.49	2.00	20.34	20.49

Mode	Channel	Frequency (MHz)	Max AV Tune-up Power to antenna 0 (mW)	Max AV Tune-up Power to antenna 1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11ac (VHT20)	36	5180	8.851	6.871	0.001	0.001	0.002	1.0
	44	5220	12.078	12.218	0.001	0.001	0.003	1.0
	48	5240	43.954	35.481	0.005	0.004	0.009	1.0
	149	5745	124.451	106.414	0.015	0.012	0.027	1.0
	157	5785	123.027	111.429	0.014	0.013	0.027	1.0
	165	5825	108.143	111.944	0.013	0.013	0.026	1.0

The Notice in Installation Manual has been stated as below:

While installing and operating this transmitter, the radio frequency exposure limit of 1 mW/ (cm<sup>2</sup>) may be exceeded at distances close to the transmitter. Therefore, the user must maintain a minimum distance of 20 cm from the device at all time.

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Mode	Channel	Frequency (MHz)	Antenna0 Gain (numeric)	Output power to antenna 0 (dBm)	Antenna1 Gain (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dB)	Max AV Tune-up Power to antenna 0 (dBm)	Max AV Tune-up Power to antenna 1 (dBm)
802.11ac (VHT40)	38	5190	0.59	1.21	0.59	0.51	2.00	3.21	2.51
	46	5230	0.59	13.29	0.59	12.85	2.00	15.29	14.85
	151	5755	0.59	18.08	0.59	17.34	2.00	20.08	19.34
	159	5795	0.59	18.08	0.59	17.61	2.00	20.08	19.61

Mode	Channel	Frequency (MHz)	Max AV Tune-up Power to antenna 0 (mW)	Max AV Tune-up Power to antenna1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11ac (VHT40)	38	5190	2.094	1.782	0.000	0.000	0.000	1.0
	46	5230	33.806	30.549	0.004	0.004	0.008	1.0
	151	5755	101.859	85.901	0.012	0.010	0.022	1.0
	159	5795	101.859	91.411	0.012	0.011	0.023	1.0

Mode	Channel	Frequency (MHz)	Antenna0 Gain (numeric)	Output power to antenna 0 (dBm)	Antenna1 Gain (numeric)	Output power to antenna 1 (dBm)	Tune-up Power Tolerance (dB)	Max AV Tune-up Power to antenna 0 (dBm)	Max AV Tune-up Power to antenna 1 (dBm)
802.11ac (VHT80)	42	5210	0.59	2.83	0.59	1.64	2.00	4.83	3.64
	155	5775	0.59	16.11	0.59	15.77	2.00	18.11	17.77

Mode	Channel	Frequency (MHz)	Max AV Tune-up Power to antenna 0 (mW)	Max AV Tune-up Power to antenna1 (mW)	Power density 0 (mW/cm <sup>2</sup> )	Power density 1 (mW/cm <sup>2</sup> )	Total Power density (mW/cm <sup>2</sup> )	Limit of power density (mW/cm <sup>2</sup> )
802.11ac (VHT80)	42	5210	3.041	2.312	0.000	0.000	0.001	1.0
	155	5775	64.714	59.841	0.008	0.007	0.015	1.0

The Notice in Installation Manual has been stated as below:

While installing and operating this transmitter, the radio frequency exposure limit of 1 mW/ (cm<sup>2</sup>) may be exceeded at distances close to the transmitter. Therefore, the user must maintain a minimum distance of 20 cm from the device at all time.

**TEST REPORT**

**The worst value of WiFi 2.4GHz is 0.010 (mW/cm<sup>2</sup>). The worst value of WiFi 5GHz is 0.027 (mW/cm<sup>2</sup>). When these are transmitting at the same time, the worst MPE value is 0.010+0.027=0.037 mW/cm<sup>2</sup>. It is also met the limit.**