



FCC RADIO EXPOSURE TEST REPORT

FCC ID : Z8H89FT0047

Equipment : ePMP 5GHz Force 300 CSM RADIO/ePMP 3000L 5GHz
Access Point Radio/cnVision Hub FLEXr Connectorized

Brand Name : Cambium Networks

Model Name : ePMP 5GHz Force 300 CSM RADIO/ePMP 3000L 5GHz
Access Point Radio/cnVision Hub FLEXr Connectorized

Model Number : C050910P021A/C050910P121A

Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL 60008, USA

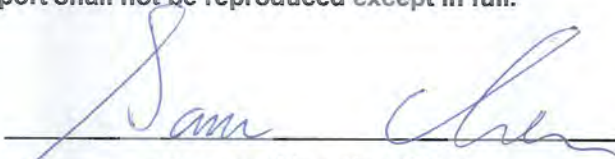
Manufacturer : Cambium Networks, Ltd.
Ashburton, TQ13 7UP, UK

Standard : 47 CFR Part 2.1091

The product was received on Jan. 15, 2019, and testing was started from Jan. 21, 2019 and completed on Jan. 06, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091, KDB447498 D01 General RF Exposure Guidance v06 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.


Approved by: Sam Chen

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Appendix A. Test Photos

Photographs of EUT v01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: **Sam Chen**

Report Producer: **Cindy Peng**



1 General Description

1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
4.9GHz	4940-4990	4950-4980	QPSK

Note1: It supports 20MHz bandwidth and 80MHz bandwidth for 5GHz, and supports 20 MHz bandwidth for 4.9GHz.

Note2: While frame-based mechanism is implemented, the test procedure is the same with regular IEEE 802.11a/n/ac devices for 5GHz.

Note3: For 4.9GHz, only the highest gain antenna "Set 1 antenna" was selected and recorded in the report.

Note4: The EUT was powered by PoE, and the PoE was for measurement only, would not be marked.

Equipment	Brand Name	Model Name	FCC ID
PoE	Cambium Networks	NTE-P15-30IN	N/A



1.2 Antenna Information

Set	Ant.	Port	Brand	P/N	Type	Connector	Gain (dBi)
1	1	1	Cambium	C050900D007B	Dish	Reversed-SMA	25
		2	Cambium	C050900D007B	Dish	Reversed-SMA	25
Set	Ant.	Port	Brand	P/N	Type	Connector	Gain (dBi)
2	2	1	ANATEL	C050900D021	Array	Reversed-SMA	17
		2	ANATEL	C050900D021	Array	Reversed-SMA	17
Set	Ant.	Port	Brand	Model Name	Type	Connector	Gain (dBi)
3	3	1	ABRACON	APAMS-121	Dipole	Reversed-SMA	2
	4	2	ABRACON	APAMS-121	Dipole	Reversed-SMA	2

Note 1:

Set	Support Function				
	5GHz Band 1	5GHz Band 2	5GHz Band 3	5GHz Band 4	4.9GHz
1	V	V	V	V	V
2	X	V	V	V	V
3	X	V	V	V	V

Note 2: The above information was declared by manufacturer.

Note 3: The EUT has three sets of antenna.

Note 4: Set 1 antenna has one antenna, and it has two connectors, and the array gain is 0dBi.

Note 5: Set 2 antenna has one antenna, and it has two connectors, and the array gain is 0dBi.

Note 6: Set 3 antenna contains two antennas, and the array gain is 0dBi.

For 2TX/2RX function:

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.



1.3 Table for Multiple Listing

The equipment names/model names in the following table are all refer to the identical product.

EUT	Equipment Name / Model Name	Model Number	GPS Function	WIFI Filter Function
1	ePMP 5GHz Force 300 CSM RADIO	C050910P021A	No	Yes
2	ePMP 3000L 5GHz Access Point Radio	C050910P121A	Yes	Yes
-	cnVision Hub FLEXr Connectorized	C050910P121A	Yes	Yes

Note: "model: cnVision Hub FLEXr Connectorized" is same as "model: ePMP 3000L 5GHz Access Point Radio", just for different marketing use.

From the above models, EUT 1 was selected as representative model for the test and its data was recorded in this report.

1.4 Table for Class III Change

This product is an extension of original one reported under Sporton project number: FA880825-04.

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
1. Adding 4.9G function, and supports 20 MHz bandwidth only.	Maximum Permissible Exposure.
2. Adding one equipment name/model name "cnVision Hub FLEXr Connectorized". 3. Adding two model number "C050910P021A/C050910P121A". 4. Changing the manufacturer's company to "Cambium Networks, Ltd.". 5. Changing the manufacturer address to "Ashburton, TQ13 7UP, UK"	It does not need to test.

Note: Maximum Permissible Exposure of 5GHz band is based on original test report.



1.5 Testing Location

Testing Location		
<input type="checkbox"/>	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. TEL : 886-3-327-3456 FAX : 886-3-327-0973
<input checked="" type="checkbox"/>	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. TEL : 886-3-656-9065 FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated	03CH01-CB	Paul Chen	22°C / 54%	Jan. 21, 2019~Jan. 23, 2019
RF Conducted	TH02-CB	Brian Sun	24~25°C / 61~64%	Dec. 27, 2019~Jan. 06, 2020

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

1.6 Support Equipment

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	NTE-P15-30IN	N/A
B	NB	DELL	E4300	N/A



2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) 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	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(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

2.2 MPE Calculation Method

The MPE was calculated at 129 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \qquad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

<4.9GHz function>

For Set 1 antenna only:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
4.9G;	25.00	19.73	44.73	0.50	45.23	33.34264	129	0.15944	1.00000

Note: The above antenna gain was declared by manufacturer.

<5GHz function>

For Set 1 antenna:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
5.2G;D1D	25.00	11.52	36.52	0.50	37.02	5.03501	129	0.02408	1.00000
5.3G;D1D	25.00	3.71	28.71	0.50	29.21	0.83368	129	0.00399	1.00000
5.6G;D1D	25.00	3.50	28.50	0.50	29.00	0.79433	129	0.00380	1.00000
5.8G;D1D	25.00	27.57	52.57	0.50	53.07	202.76827	129	0.96962	1.00000

Note: The above antenna gain was declared by manufacturer.

For Set 2 antenna:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
5.3G;D1D	17.00	11.80	28.80	0.50	29.30	0.85114	129	0.00407	1.00000
5.6G;D1D	17.00	12.79	29.79	0.20	29.99	0.99770	129	0.00477	1.00000
5.8G;D1D	17.00	18.90	35.90	0.09	35.99	3.97192	129	0.01899	1.00000

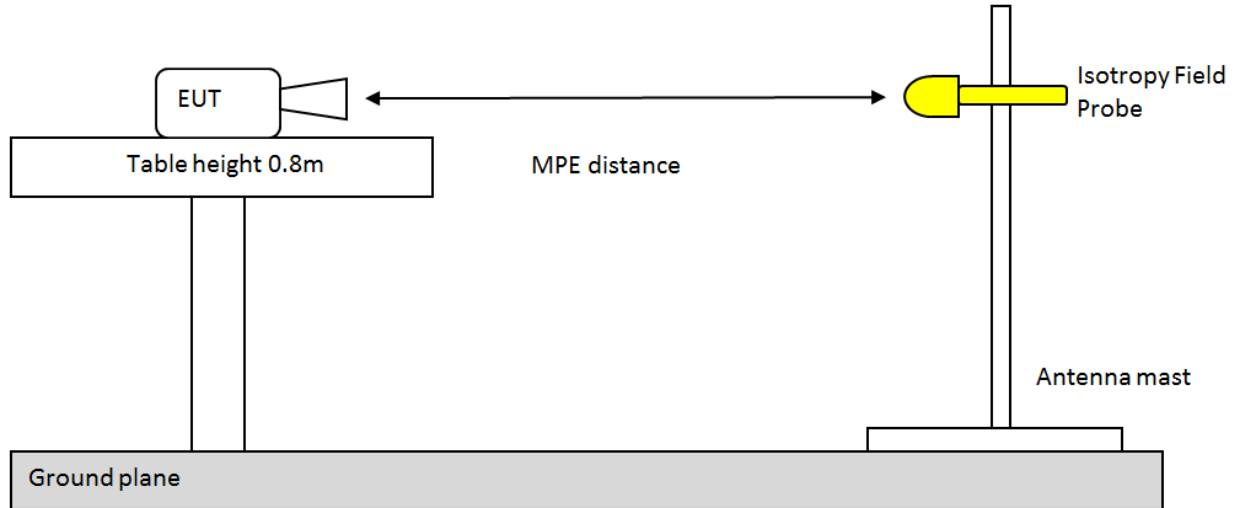
Note: The above antenna gain was declared by manufacturer.

For Set 3 antenna:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Tune-up EIRP (W)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)
5.3G;D1D	2.00	23.93	25.93	0.50	26.43	0.43954	129	0.00210	1.00000
5.6G;D1D	2.00	23.93	25.93	0.50	26.43	0.43954	129	0.00210	1.00000
5.8G;D1D	2.00	27.64	29.64	0.50	30.14	1.03276	129	0.00494	1.00000

Note: The above antenna gain was declared by manufacturer.

2.4 MPE Measurement Method



Horizontal Plane

1. Align Probe with antenna axis. Probe should same height as Antenna axis.
And take power density measurement with Probe.
2. Rotate table 45 degree (30 degree if MPE distance is more 60cm).
Take power density measurement again.
3. Repeat step 2, until complete 360 degree.
Each measured power density should be less than MPE limit.

Vertical Plane

1. Align Probe with antenna axis. Move probe to height of 10cm above ground plane.
Take power density measurement.
Then repeat measure with 10cm increment of probe height until 180 cm.
2. Rotate table 45 degree (30 degree if MPE distance is more 60cm).
Repeat the power density measure from 10cm to 180cm
3. Repeat step 2, until complete 360 degree.
Spatial Average of same vertical plane should be less then MPE limit.

For Probe or measurement equipment requirement, please see FCC OET Bulletin 65 97-01

Note:

Either peak or spatially averaged results may be applied to determine compliance; and with respect to plane-wave equivalent power density limits when ≥ 300 MHz, and electric and magnetic field strength limits when < 300 MHz.



2.5 Measurement Result and Limit

<5GHz function>

For Set 1 antenna:

Test Mode	11a	Test Frequency (MHz)	5745	MPE Distance (cm)	129	Power Setting	27		
EUT Plane	Horizontal								
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°	
	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	
209	0.07521	0.00102	0.00131	0.00077	0.00082	0.00109	0.00111	0.08613	
Max PSD (mW/cm ²)	0.08613								
MPE Limit (mW/cm ²)	1								
EUT Plane	Vertical								
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°	
	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	
10	0.00227	0.00048	0.00067	0.00037	0.00025	0.00034	0.00055	0.00137	
20	0.00317	0.00162	0.00168	0.00102	0.00046	0.00053	0.00068	0.00234	
30	0.00762	0.00234	0.00221	0.00065	0.00043	0.00070	0.00127	0.00684	
40	0.01137	0.00123	0.00115	0.00051	0.00032	0.00048	0.00083	0.01128	
50	0.01329	0.00146	0.00106	0.00085	0.00034	0.00038	0.00065	0.01239	
60	0.01452	0.00112	0.00118	0.00076	0.00034	0.00032	0.00066	0.01507	
70	0.01356	0.00097	0.00084	0.00078	0.00051	0.00031	0.00060	0.01743	
80	0.01208	0.00176	0.00092	0.00087	0.00041	0.00039	0.00062	0.01612	
90	0.04081	0.00188	0.00125	0.00098	0.00049	0.00043	0.00081	0.02025	
100	0.05316	0.00102	0.00134	0.00142	0.00052	0.00038	0.00050	0.03053	
110	0.05032	0.00124	0.00089	0.00175	0.00058	0.00038	0.00061	0.03392	
120	0.03827	0.00168	0.00119	0.00151	0.00033	0.00038	0.00040	0.03141	
130	0.03187	0.00165	0.00174	0.00094	0.00020	0.00053	0.00067	0.03735	
140	0.01746	0.00143	0.00153	0.00081	0.00017	0.00057	0.00073	0.01853	
150	0.00941	0.00135	0.00126	0.00071	0.00029	0.00038	0.00090	0.00781	
160	0.00483	0.00164	0.00157	0.00073	0.00028	0.00033	0.00094	0.00468	
170	0.00301	0.00162	0.00114	0.00058	0.00019	0.00035	0.00076	0.00287	
180	0.00094	0.00145	0.00157	0.00041	0.00028	0.00030	0.00058	0.00085	
Spatial Average (mW/cm ²)	0.01822	0.001441111	0.001288333	0.000869444	0.000355	0.000415556	0.000708889	0.015057944	
Max Spatial Average (mW/cm ²)	0.01822								
MPE Limit (mW/cm ²)	1								



Test Mode	11a	Test Frequency (MHz)	5785	MPE Distance (cm)	129	Power Setting	27	
EUT Plane	Horizontal							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
209	0.14052	0.00187	0.00282	0.00141	0.00157	0.00163	0.00196	0.16038
Max PSD (mW/cm²)	0.16038							
MPE Limit (mW/cm²)	1							
EUT Plane	Vertical							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
10	0.00188	0.00061	0.00124	0.00128	0.00079	0.00043	0.00092	0.00178
20	0.00586	0.00175	0.00267	0.00264	0.00093	0.00089	0.00124	0.00388
30	0.01025	0.00293	0.00315	0.00137	0.00083	0.00132	0.00169	0.00934
40	0.01909	0.00223	0.00212	0.00114	0.00078	0.00072	0.00097	0.01879
50	0.02153	0.00106	0.00239	0.00212	0.00060	0.00093	0.00083	0.02114
60	0.02265	0.00216	0.00247	0.00119	0.00079	0.00063	0.00078	0.02318
70	0.01706	0.00131	0.00197	0.00137	0.00136	0.00047	0.00048	0.02058
80	0.01677	0.00185	0.00157	0.00156	0.00117	0.00057	0.00076	0.02826
90	0.07192	0.00226	0.00164	0.00245	0.00068	0.00073	0.00097	0.03751
100	0.11753	0.00246	0.00289	0.00417	0.00065	0.00075	0.00084	0.05332
110	0.09243	0.00155	0.00203	0.00391	0.00135	0.00066	0.00063	0.04987
120	0.06113	0.00230	0.00265	0.00346	0.00066	0.00069	0.00085	0.05128
130	0.04993	0.00212	0.00276	0.00209	0.00047	0.00099	0.00114	0.05693
140	0.02639	0.00203	0.00228	0.00135	0.00050	0.00063	0.00095	0.02894
150	0.01236	0.00271	0.00209	0.00103	0.00072	0.00043	0.00068	0.01325
160	0.01262	0.00243	0.00247	0.00091	0.00042	0.00038	0.00091	0.01258
170	0.00375	0.00285	0.00286	0.00107	0.00051	0.00046	0.00113	0.00383
180	0.00234	0.00167	0.00178	0.0008	0.00045	0.00063	0.00085	0.00235
Spatial Average (mW/cm²)	0.03142	0.00202	0.00228	0.00188	0.00076	0.00068	0.00092	0.02427
Max Spatial Average (mW/cm²)	0.03142							
MPE Limit (mW/cm²)	1							



Test Mode	11a	Test Frequency (MHz)	5825	MPE Distance (cm)	129	Power Setting	27	
EUT Plane	Horizontal							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)
209	0.15824	0.00226	0.00318	0.00157	0.00201	0.00166	0.00134	0.19732
Max PSD (mW/cm ²)	0.19732							
MPE Limit (mW/cm ²)	1							
EUT Plane	Vertical							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)	Max PSD (mW/cm ²)
10	0.00135	0.00078	0.00163	0.00164	0.00093	0.00032	0.00109	0.00167
20	0.00492	0.00121	0.00288	0.00303	0.00127	0.00105	0.00114	0.00259
30	0.01479	0.00335	0.00471	0.00170	0.00102	0.00167	0.00156	0.01287
40	0.01775	0.00229	0.00237	0.00199	0.00085	0.00094	0.00125	0.01782
50	0.02137	0.00216	0.00327	0.00257	0.00063	0.00083	0.00081	0.01862
60	0.02094	0.00211	0.00230	0.00168	0.00114	0.00087	0.00103	0.02119
70	0.01762	0.00191	0.00211	0.00153	0.00147	0.00053	0.00102	0.01963
80	0.01345	0.00191	0.00233	0.00207	0.00169	0.00075	0.00098	0.02678
90	0.08369	0.00171	0.00154	0.00368	0.00143	0.00076	0.00107	0.03358
100	0.01347	0.00222	0.00337	0.00583	0.00165	0.00091	0.00129	0.05667
110	0.09682	0.00187	0.00289	0.00587	0.00184	0.00063	0.00065	0.05257
120	0.05664	0.00203	0.00401	0.00486	0.00083	0.00082	0.00136	0.05238
130	0.04162	0.00239	0.00259	0.00237	0.00051	0.00085	0.00093	0.04619
140	0.02739	0.00236	0.00225	0.00207	0.00061	0.00045	0.00110	0.02703
150	0.01302	0.00286	0.00304	0.00157	0.00062	0.00049	0.00072	0.01458
160	0.01145	0.00221	0.00258	0.00123	0.00071	0.00051	0.00088	0.01138
170	0.00498	0.00237	0.00252	0.00117	0.00078	0.00037	0.00103	0.00458
180	0.00235	0.00186	0.00237	0.00139	0.00073	0.00040	0.00083	0.00238
Spatial Average (mW/cm ²)	0.02576	0.00209	0.00271	0.00257	0.00104	0.00073	0.00104	0.02347
Max Spatial Average (mW/cm ²)	0.02576							
MPE Limit (mW/cm ²)	1							



Test Mode	11ac VHT20	Test Frequency (MHz)	5745	MPE Distance (cm)	129	Power Setting	27	
EUT Plane	Horizontal							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
209	0.09228	0.00093	0.00148	0.00066	0.00092	0.00133	0.00137	0.09123
Max PSD (mW/cm²)	0.09228							
MPE Limit (mW/cm²)	1							
EUT Plane	Vertical							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
10	0.00215	0.00056	0.00065	0.00062	0.00023	0.00025	0.00063	0.00153
20	0.00159	0.00070	0.00073	0.00072	0.00039	0.00032	0.00072	0.00198
30	0.00903	0.00202	0.00168	0.00062	0.00043	0.00069	0.00093	0.00710
40	0.00663	0.00145	0.00124	0.00041	0.00038	0.00063	0.00107	0.00655
50	0.01053	0.00145	0.00136	0.00058	0.00031	0.00039	0.00027	0.01043
60	0.01357	0.00165	0.00124	0.00088	0.00037	0.00043	0.00048	0.01578
70	0.01257	0.00143	0.00107	0.00092	0.00038	0.00032	0.00016	0.01726
80	0.01178	0.00162	0.00067	0.00094	0.00041	0.00053	0.00041	0.01752
90	0.04502	0.00132	0.00116	0.00097	0.00037	0.00057	0.00071	0.02240
100	0.05813	0.00126	0.00133	0.00151	0.00044	0.00045	0.00051	0.04122
110	0.04827	0.00117	0.00109	0.00196	0.00053	0.00039	0.00055	0.03725
120	0.03763	0.00143	0.00133	0.00131	0.00040	0.00037	0.00085	0.03615
130	0.03048	0.00136	0.00167	0.00091	0.00023	0.00034	0.00046	0.04025
140	0.02148	0.00115	0.00160	0.00079	0.00018	0.00061	0.00082	0.02342
150	0.00945	0.00136	0.00162	0.00058	0.00027	0.00053	0.00091	0.00937
160	0.00426	0.00146	0.00133	0.00076	0.00031	0.00044	0.00105	0.00428
170	0.00445	0.00167	0.00168	0.00054	0.00025	0.00039	0.00096	0.00432
180	0.00088	0.00126	0.00121	0.00043	0.00032	0.00031	0.00057	0.00085
Spatial Average (mW/cm²)	0.01822	0.00135	0.00126	0.00086	0.00034	0.00044	0.00067	0.01654
Max Spatial Average (mW/cm²)	0.01822							
MPE Limit (mW/cm²)	1							



Test Mode	11ac VHT20	Test Frequency (MHz)	5785	MPE Distance (cm)	129	Power Setting	27	
EUT Plane	Horizontal							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
209	0.13074	0.00162	0.00288	0.00028	0.00137	0.00187	0.00174	0.14924
Max PSD (mW/cm²)	0.14924							
MPE Limit (mW/cm²)	1							
EUT Plane	Vertical							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
10	0.00276	0.00086	0.00112	0.00106	0.00061	0.00044	0.00132	0.00227
20	0.00243	0.00082	0.00221	0.00222	0.00102	0.00048	0.00116	0.00245
30	0.01143	0.00276	0.00242	0.00134	0.00106	0.00123	0.00179	0.01077
40	0.01139	0.00243	0.00196	0.00088	0.00057	0.00113	0.00145	0.01095
50	0.01612	0.00291	0.00276	0.00181	0.00058	0.00089	0.00082	0.01581
60	0.02397	0.00263	0.00243	0.00178	0.00064	0.00072	0.00118	0.02538
70	0.01976	0.00172	0.00141	0.00157	0.00085	0.00047	0.00091	0.02936
80	0.01952	0.00229	0.00104	0.00184	0.00076	0.00051	0.00074	0.02351
90	0.06153	0.00276	0.00257	0.00233	0.00071	0.00081	0.00148	0.03478
100	0.09322	0.00299	0.00329	0.00228	0.00072	0.00042	0.00101	0.06548
110	0.09428	0.00188	0.00173	0.00321	0.00118	0.00062	0.00105	0.05732
120	0.05694	0.00168	0.00251	0.00279	0.00051	0.00082	0.00061	0.04819
130	0.05084	0.00202	0.00307	0.00216	0.00044	0.00117	0.00101	0.06052
140	0.03178	0.00211	0.00216	0.00124	0.00032	0.00127	0.00119	0.03508
150	0.01506	0.00168	0.00196	0.00073	0.00048	0.00076	0.00128	0.01523
160	0.00832	0.00251	0.00263	0.00093	0.00047	0.00058	0.00151	0.00836
170	0.00662	0.00212	0.00268	0.00086	0.00045	0.00069	0.00135	0.00638
180	0.00226	0.00191	0.00206	0.00088	0.00046	0.00067	0.00109	0.00215
Spatial Average (mW/cm²)	0.02935	0.00212	0.00222	0.00166	0.00066	0.00076	0.00116	0.02522
Max Spatial Average (mW/cm²)	0.02935							
MPE Limit (mW/cm²)	1							



Test Mode	11ac VHT20	Test Frequency (MHz)	5825	MPE Distance (cm)	129	Power Setting	27		
EUT Plane	Horizontal								
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°	
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	
209	0.16213	0.00274	0.00334	0.00156	0.00186	0.00178	0.00153	0.19061	
Max PSD (mW/cm²)	0.19061								
MPE Limit (mW/cm²)	1								
EUT Plane	Vertical								
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°	
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	
10	0.00211	0.00095	0.00128	0.00126	0.00058	0.00039	0.00082	0.00116	
20	0.00253	0.00851	0.00176	0.00191	0.00123	0.00044	0.00113	0.00242	
30	0.00843	0.00202	0.00315	0.00211	0.00097	0.00165	0.00154	0.00758	
40	0.01157	0.00232	0.00215	0.00094	0.00112	0.00132	0.00108	0.01065	
50	0.01527	0.00204	0.00204	0.00211	0.00076	0.00072	0.00074	0.01319	
60	0.02119	0.00176	0.00178	0.00143	0.00094	0.00061	0.00072	0.02149	
70	0.01628	0.00121	0.00169	0.00142	0.00113	0.00045	0.00065	0.02013	
80	0.01432	0.00176	0.00178	0.00213	0.00131	0.00047	0.00088	0.02205	
90	0.07123	0.00206	0.00168	0.00345	0.00093	0.00076	0.00131	0.03003	
100	0.13524	0.00308	0.00384	0.00625	0.00082	0.00108	0.00151	0.06952	
110	0.09238	0.00134	0.00256	0.00483	0.00172	0.00074	0.00066	0.04814	
120	0.06127	0.00351	0.00378	0.00452	0.00082	0.00136	0.00148	0.04708	
130	0.04463	0.00271	0.00331	0.00295	0.00069	0.00139	0.00138	0.05059	
140	0.02707	0.00158	0.00263	0.00276	0.00052	0.00082	0.00114	0.02909	
150	0.01288	0.00206	0.00223	0.00177	0.00069	0.00057	0.00089	0.01423	
160	0.01313	0.00139	0.00243	0.00098	0.00072	0.00044	0.00128	0.01325	
170	0.00362	0.00284	0.00292	0.00165	0.00065	0.00036	0.00133	0.00388	
180	0.00183	0.00136	0.00273	0.00126	0.00075	0.00041	0.00093	0.00191	
Spatial Average (mW/cm²)	0.03083	0.00236	0.00243	0.00243	0.00091	0.00078	0.00108	0.02258	
Max Spatial Average (mW/cm²)	0.03083								
MPE Limit (mW/cm²)	1								



Test Mode	11ac VHT80	Test Frequency (MHz)	5775	MPE Distance (cm)	129	Power Setting	19.5	
EUT Plane	Horizontal							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
209	0.03218	0.00043	0.00069	0.00015	0.00039	0.00041	0.00047	0.03824
Max PSD (mW/cm²)	0.03824							
MPE Limit (mW/cm²)	1							
EUT Plane	Vertical							
Probe height (cm) \ Deg	0~45°	45~90°	90~135°	135~180°	180~225°	225~270°	270~315°	315~360°
	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)	Max PSD (mW/cm²)
10	0.00073	0.00027	0.00037	0.00028	0.00014	0.00013	0.00026	0.00063
20	0.00078	0.00022	0.00025	0.00043	0.00011	0.00018	0.00015	0.00091
30	0.00357	0.00034	0.00057	0.00059	0.00026	0.00025	0.00032	0.00335
40	0.00301	0.00078	0.00065	0.00017	0.00023	0.00031	0.00039	0.00304
50	0.00445	0.00054	0.00055	0.00046	0.00018	0.00022	0.00033	0.00453
60	0.00672	0.00063	0.00048	0.00036	0.00017	0.00021	0.00028	0.00768
70	0.00576	0.00052	0.00031	0.00041	0.00021	0.00017	0.00024	0.00714
80	0.00553	0.00062	0.00035	0.00052	0.00022	0.00021	0.00025	0.00743
90	0.01825	0.00072	0.00075	0.00061	0.00014	0.00021	0.00037	0.00952
100	0.02767	0.00068	0.00073	0.00091	0.00024	0.00023	0.00014	0.01832
110	0.02462	0.00043	0.00047	0.00092	0.00037	0.00013	0.00028	0.01513
120	0.01507	0.00065	0.00055	0.00093	0.00017	0.00022	0.00022	0.01329
130	0.01308	0.00053	0.00092	0.00062	0.00012	0.00023	0.00025	0.01647
140	0.00951	0.00053	0.00072	0.00041	0.00011	0.00027	0.00035	0.01024
150	0.00395	0.00026	0.00051	0.00043	0.00013	0.00011	0.00025	0.00382
160	0.00231	0.00054	0.00072	0.00021	0.00013	0.00012	0.00045	0.00229
170	0.00162	0.00024	0.00071	0.00013	0.00015	0.00011	0.00036	0.00151
180	0.00042	0.00028	0.00032	0.00011	0.00012	0.00028	0.00031	0.00042
Spatial Average (mW/cm²)	0.00817	0.00049	0.00055	0.00047	0.00018	0.00020	0.00029	0.00698
Max Spatial Average (mW/cm²)	0.00817							
MPE Limit (mW/cm²)	1							



2.6 List of Measuring Equipments

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Isotropic Probe	ETS-LINDGREN	HI-6105	00130664	100kHz-6GHz	Oct. 31, 2018	Oct. 30, 2019	03CH01-CB

Note: Calibration Interval of instrument listed above is one year.