

NCC

低功率射頻電機型式試驗報告

產品名稱: 無線基地台
英文名稱: OmniAccess Stellar
型號: OAW-AP1361, OAW-AP1361D, OAW-AP1362
廠牌: Alcatel-Lucent 
Enterprise
申請者: 皇輝科技股份有限公司
申請者地址: 台北市內湖區民權東路六段 11 巷 43 之 1 號 3 樓
測試標準: LP0002 (107 年版) 4.7 章節
參考法規: ANSI C63.10-2013
測試結果: 符合
測試日期: 2020.03.10 ~ 2020.04.24
接收日期: 2020.03.10

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本測試報告僅對實驗室所受測之樣品負責

本測試報告非經本公司同意不可局部複製使用

修訂紀錄

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1. 一般資訊

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實驗室地址	33377 台灣桃園市龜山區復興二路 38 號
實驗室資訊	1. MRT facility is a FCC registered (Reg. No. 291082) test facility with the site description report on file and is designated by the FCC as an Accredited Test Firm. 2. MRT facility is an IC registered (MRT Reg. No. 21723) test laboratory with the site description on file at Industry Canada. 3. MRT Lab is accredited to ISO 17025 by the Taiwan Accreditation Foundation (TAF Cert. No. 3261) in EMC, Telecommunications and Radio testing for FCC, Industry Taiwan, EU and TELEC Rules.
實驗室測試環境條件	溫度 (°C) : 20-35 / 濕度 (%RH) : 30-65

2. 產品資訊

2.1. 待測物裝置資料

產品名稱	無線基地台
產品型號	OAW-AP1361, OAW-AP1361D, OAW-AP1362
待測物額定電壓	PoE input
無線規格	802.11a/b/g/n/ac/ax, Bluetooth v5.1 single mode
頻率範圍	For 802.11a/n-HT20/ac/VHT20/ax-HE20: 5180~5240MHz, 5260~5320MHz, 5500~5720MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230 MHz, 5270~5310MHz, 5510~5710MHz, 5755~5795 MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz, 5690 MHz, 5775MHz For 802.11ac-VHT80 + 80/ax-HE80 + 80: 5210MHz, 5290MHz, 5530MHz, 5610 MHz
調變模式	802.11a/n/ac: OFDM; 802.11ax: OFDMA
傳輸速率	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps 802.11ax: up to 2402Mbps
頻道控制	Auto
Scan Antenna	
無線規格	802.11a
頻率範圍	802.11a: 5180~5240MHz, 5745~5825MHz
通道數量	802.11a: 9
調變模式	802.11a: OFDM
傳輸速率	802.11a: 6/9/12/18/24/36/48/54Mbps

Note:

不同機型的區別在於使用不同的 Wi-Fi 天線和外觀(OAW-AP1361& OAW-AP1361D 為內建式天線,其搭配的天線為不同款,天線增益也不相同, OAW-AP1362 為外接式天線)其他硬體都是一樣的,故僅針對產品型號 OAW-AP1361D 評估射頻傳導測試,並分別針對 OAW-AP1361, OAW-AP1361D, OAW-AP1362 的輻射部份執行評估。

2.2. 通道清單

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	52	5260 MHz	56	5280 MHz
60	5300 MHz	64	5320 MHz	100	5500 MHz
104	5520 MHz	108	5540 MHz	112	5560 MHz
116	5580 MHz	120	5600 MHz	124	5620 MHz
128	5640 MHz	132	5660 MHz	136	5680 MHz
140	5700 MHz	144	5720 MHz	149	5745 MHz
153	5765 MHz	157	5785 MHz	161	5805 MHz
165	5825 MHz	--	--	--	--

802.11n-HT40/ac-VHT20/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	54	5270 MHz
62	5310 MHz	102	5510 MHz	110	5550 MHz
118	5590 MHz	126	5630 MHz	134	5670 MHz
142	5710 MHz	151	5755 MHz	159	5795 MHz

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	58	5290 MHz	106	5530 MHz
122	5610 MHz	138	5690 MHz	155	5775 MHz

802.11ac-VHT80 + 80/ax-HE80 + 80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210MHz	58	5290MHz	106	5530MHz
122	5610MHz	--	--	--	--

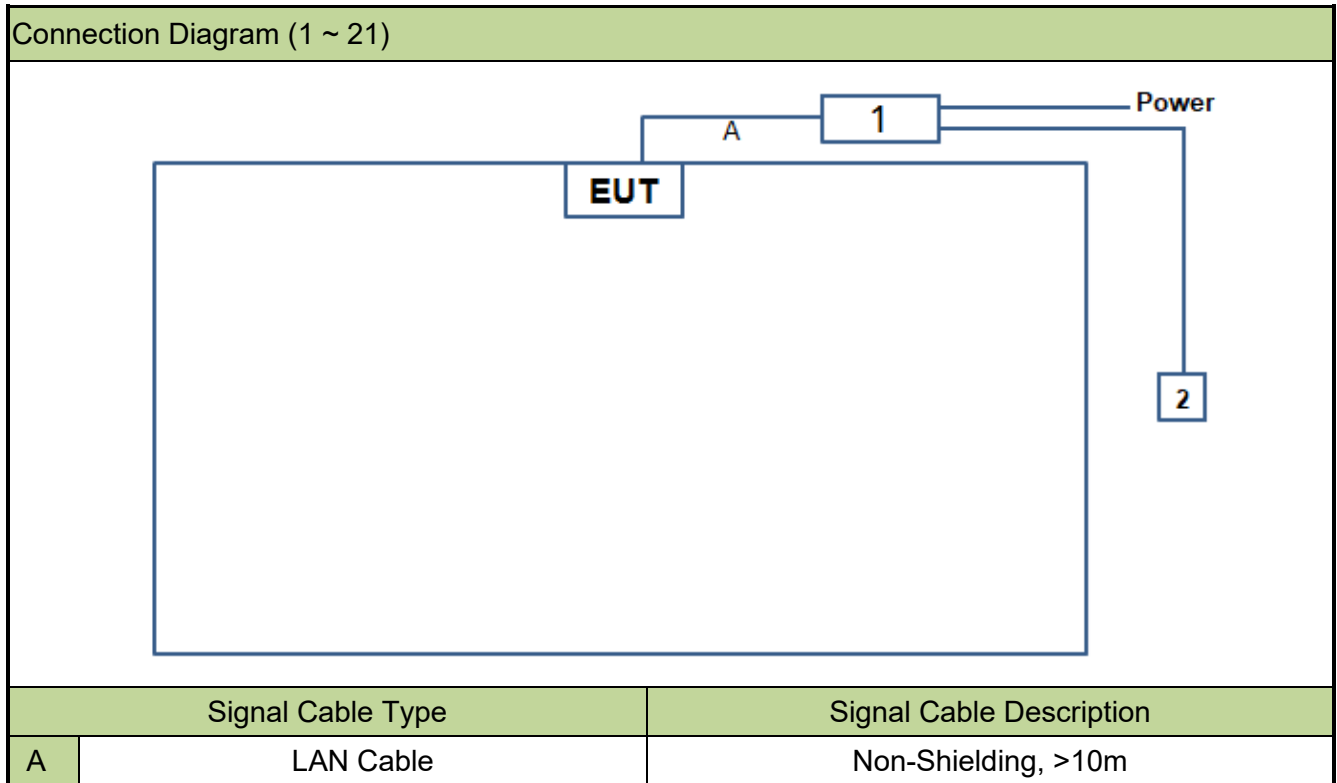
2.3. 測試模式

Mode 1: 發射器 802.11a (6Mbps) (CDD Mode)
Mode 2: 發射器 802.11n-HT20 (MCS0) (CDD Mode)
Mode 3: 發射器 802.11n-HT40 (MCS0) (CDD Mode)
Mode 4: 發射器 802.11ac-VHT20 (MCS0) (CDD Mode)
Mode 5: 發射器 802.11ac-VHT40 (MCS0) (CDD Mode)
Mode 6: 發射器 802.11ac-VHT80 (MCS0) (CDD Mode)
Mode 7: 發射器 802.11ac-VHT 80+80 (MCS0) (CDD Mode)
Mode 8: 發射器 802.11ax-HE20 (MCS0) (CDD Mode)
Mode 9: 發射器 802.11ax-HE40 (MCS0) (CDD Mode)
Mode 10: 發射器 802.11ax-HE80 (MCS0) (CDD Mode)
Mode 11: 發射器 802.11ax-HE80+80 (MCS0) (CDD Mode)
Mode 12: 發射器 802.11n-HT20 (MCS0) (Beam-Forming Mode)
Mode 13: 發射器 802.11n-HT40 (MCS0) (Beam-Forming Mode)
Mode 14: 發射器 802.11ac-VHT20 (MCS0) (Beam-Forming Mode)
Mode 15: 發射器 802.11ac-VHT40 (MCS0) (Beam-Forming Mode)
Mode 16: 發射器 802.11ac-VHT80 (MCS0) (Beam-Forming Mode)
Mode 17: 發射器 802.11ac-VHT 80+80 (MCS0) (Beam-Forming Mode)
Mode 18: 發射器 802.11ax-HE20 (MCS0) (Beam-Forming Mode)
Mode 19: 發射器 802.11ax-HE40 (MCS0) (Beam-Forming Mode)
Mode 20: 發射器 802.11ax-HE80 (MCS0) (Beam-Forming Mode)
Mode 21: 發射器 802.11ax-HE80+80 (MCS0) (Beam-Forming Mode)

備註 1：為了評估較嚴謹的數據,故使用大於 10m 的網路線來測試;

備註 2：802.11n 模式功率高於 802.11ac 模式，因此報告中不體現 802.11ac 模式結果。

2.4. 測試系統組合圖



2.5. 測試周邊

Item	周邊	Manufacturer	Model No.	Serial No.	Power Cord
1	PoE Adapter	Microsemi	PD-9501GC/AC	N/A	Non-Shielded, 1.8m
2	Notebook	Lenovo	E460	N/A	Non-Shielded, 1.8m

2.6. 待測裝置測試時之典型操作程式

1.	Setup the EUT and simulators as shown on 2.4
2.	Turn on the power of all equipment.
3.	Execute "QSPR" program.
4.	Configure the test channel and the data rate.
5.	Start test.

3. 量測不確定度

電源傳導量測-電源線 (Conducted Emission- Power Line)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 2.53dB
電源傳導量測-通訊埠 (Conducted Emission- Impedance Stabilization Network Measurement)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.96dB
輻射干擾量測 (Radiated Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.92dB (Below 30M)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 4.25dB (30M~1G)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 4.40dB (1G~18G)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 4.45dB (18G~40G)
頻率誤差量測 (Frequency Error)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 78.4\text{Hz}$
傳導功率量測 (Conducted Power)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.84\text{dB}$
傳導干擾量測 (Conducted Spurious Emission)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 2.65\text{ dB}$
佔用頻寬量測 (Occupied Bandwidth)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): 3.3%
溫度 / 濕度 (Temp. / Humidity)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.82^\circ\text{C}/ \pm 3\%$
直流電源 (DC Voltage)
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$): $\pm 0.3\%$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

4. 測試設備明細

Conducted Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Two-Line V-Network	R&S	ENV216	MRTTWA00019	1 year	2021/03/25
Two-Line V-Network	R&S	ENV216	MRTTWA00020	1 year	2020/04/25
8-Wire ISN (T8)	R&S	ENY81	MRTTWA00018	1 year	2020/04/23
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2021/03/25

Radiated Emissions

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	MRTTWA00002	1 year	2021/04/29
Broadband TRILOG Antenna	SCHWARZBECK	VULB 9162	MRTTWA00001	1 year	2020/05/22
Broadband Hornantenna	SCHWARZBECK	BBHA 9120D	MRTTWA00003	1 year	2021/04/22
Breitband Hornantenna	SCHWARZBECK	BBHA 9170	MRTTWA00004	1 year	2021/04/23
Broadband Preamplifier	SCHWARZBECK	BBV 9718	MRTTWA00005	1 year	2021/04/24
Broadband Amplifier	SCHWARZBECK	BBV 9721	MRTTWA00006	1 year	2021/04/24
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2021/03/26
EMI Test Receiver	R&S	ESR3	MRTTWA00009	1 year	2021/03/25
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2020/07/29
Antenna Cable	HUBERSUHNER	SF106	MRTTWE00010	1 year	2020/06/17

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
X-Series USB Peak and Average Power Sensor	KEYSIGHT	U2021XA	MRTTWA00014	1 year	2021/04/22
Wideband Radio Communication Taster	R&S	CMW 500	MRTTWA00041	1 year	2021/01/28
EXA Signal Analyzer	KEYSIGHT	N9010A	MRTTWA00012	1 year	2020/07/29
EXA Signal Analyzer	KEYSIGHT	N9010B	MRTSUE06457	1 year	2020/07/18
Signal Analyzer	R&S	FSV40	MRTTWA00007	1 year	2021/03/26

Software	Version	Function
e3	9.160520a	EMI Test Software
EMI	V 3	EMI Test Software

5. 測試結果

產品名稱

無線基地台

型號

OAW-AP1361, OAW-AP1361D, OAW-AP1362

章節	量測項目	限制值	測試結果	測試數據
2.3	電源傳導	低功率射頻電機技術規範 2.3 節	符合	第 5.1 章節
4.7.2(1)(2)(3)	峰值傳導輸出功率	參考第 5.2 章節	符合	第 5.2 章節
2.2 及 4.7.8	天線之要求	低功率射頻電機技術規範 2.2 節及 4.7.8 節	符合	第 5.3 章節
4.7.5	26dB 佔用頻寬	N/A	符合	第 5.4 章節
4.7.5	6dB 佔用頻寬	$\geq 500\text{KHz}$	符合	第 5.5 章節
4.7.2(1)(2)(3)	功率頻譜密度	參考第 5.6 章節	符合	第 5.6 章節
4.7.3	操作頻帶外的峰值發射	低功率射頻電機技術規範 4.7.3 節	符合	第 5.7 章節
2.8 及 4.7.3	不必要之發射	低功率射頻電機技術規範 2.8 節	符合	第 5.8 章節
4.7.4	發射功率控制	至少具有 6dB 低於平均 EIRP 值 30dBm 的能力	N/A	第 5.9 章節
N/A	頻率穩定性	操作頻帶	符合	第 5.10 章節

備註：符合性的判定是基於測試結果符合規範的限制值或客戶的宣告要求，測試結果的判定是不考慮測量不確定度的值。

5.1. 電源端點干擾測試

5.1.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 2.3 節，以市電為電源之低功率射頻電機，其傳導回電源線上頻率自 150kHz 至 30MHz 之射頻電壓(在電源端子每一電源線對接地點)應小於或等於下表所列之限值。測量時應經過 50 微亨利(μH)及 50 歐姆(Ω)之電源線阻抗模擬網路(LISN)。頻率重疊處，以較低限值為準。

Frequency 頻率範圍 MHz	傳導限制值(dBuV)	
	準尖峰值	平均值
0.15 - 0.50	66-56 ^(註)	56-46 ^(註)
0.50 - 5.0	56	46
5.0 - 30	60	50

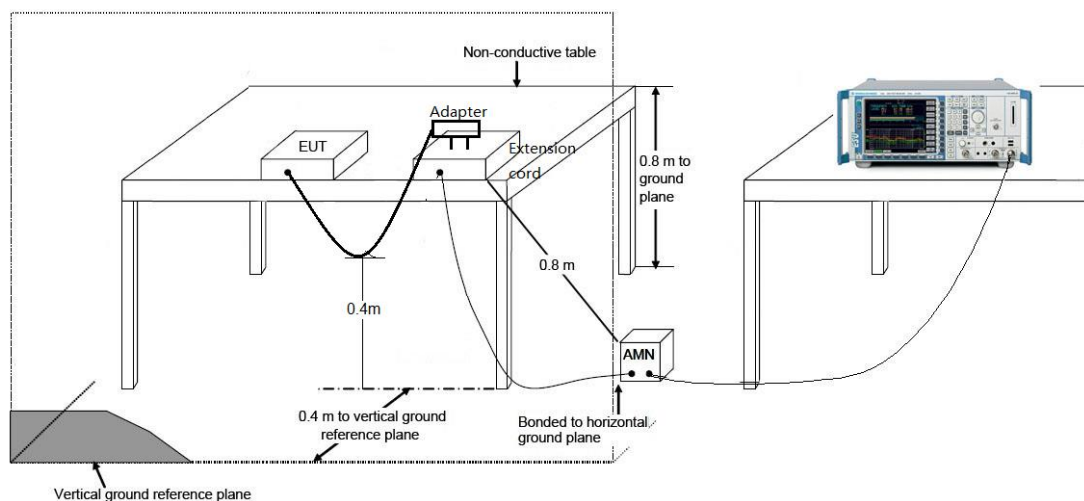
註:隨頻率之對數遞減

5.1.2. 量測方法

待測物置於高 80 公分之非導體桌面（落地型產品置於地上），將待測物之電源線接至電源阻抗網路器(LISN)，同時保持待測物至 LISN 距 80 公分，並將電源線多餘部份以 30 至 40 公分之八字形捆綁於電源線中央並離地 40cm，於在正常工作狀態下，執行待測物之火線(Line)及地線(neutral)各一次量測。電源端點場強之測量範圍由 0.15MHz –30MHz，所量測之讀值皆為準尖峰值(Quasi-Peak Value)及平均值(Average Value)。場強接收機之解析頻寬為 9kHz。

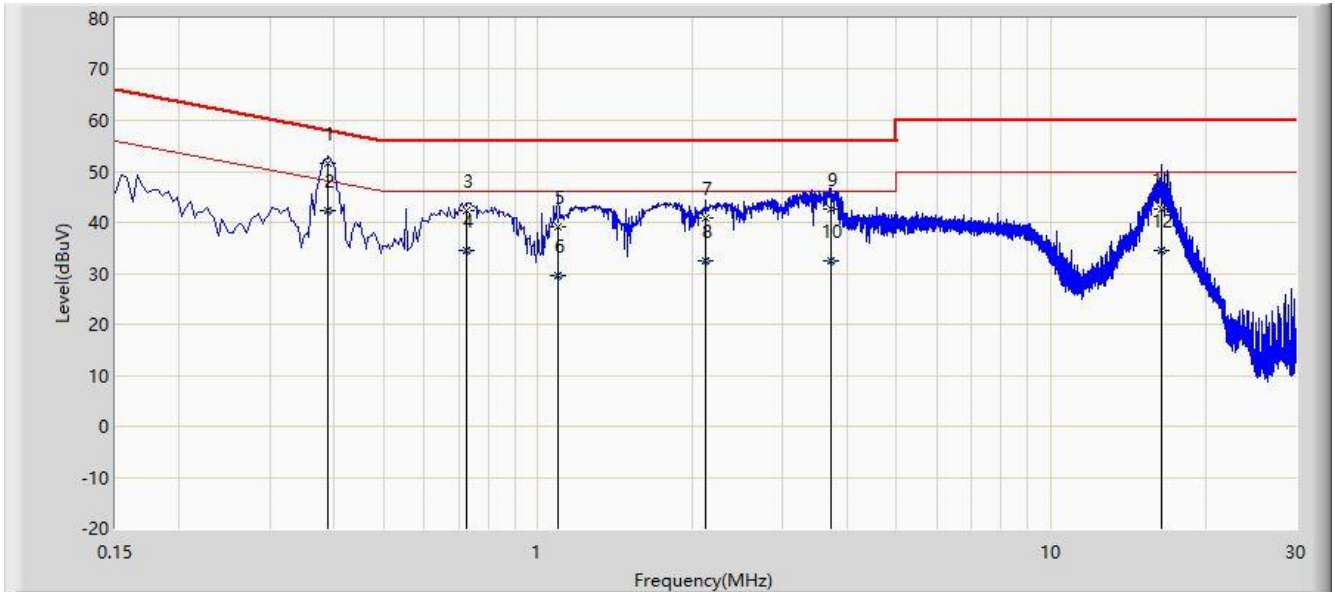
備 註: 經初測驗證過，電源端點干擾測試對測試頻道數並無差異，因此檢附其中一個測試頻道之測試數。

5.1.3. 測試架構圖



5.1.4. 電源端點測試結果

Site: SR2	Time: 2020/03/30 - 13:38
Limit: NCC LP0002_CE_0.15MHz-30MHz	Engineer: Peter Syu
Probe: ENV216_101684_Filter On	Polarity: Line
Probe: ENV216_Filter On	Power: By PoE
Test Mode 1	

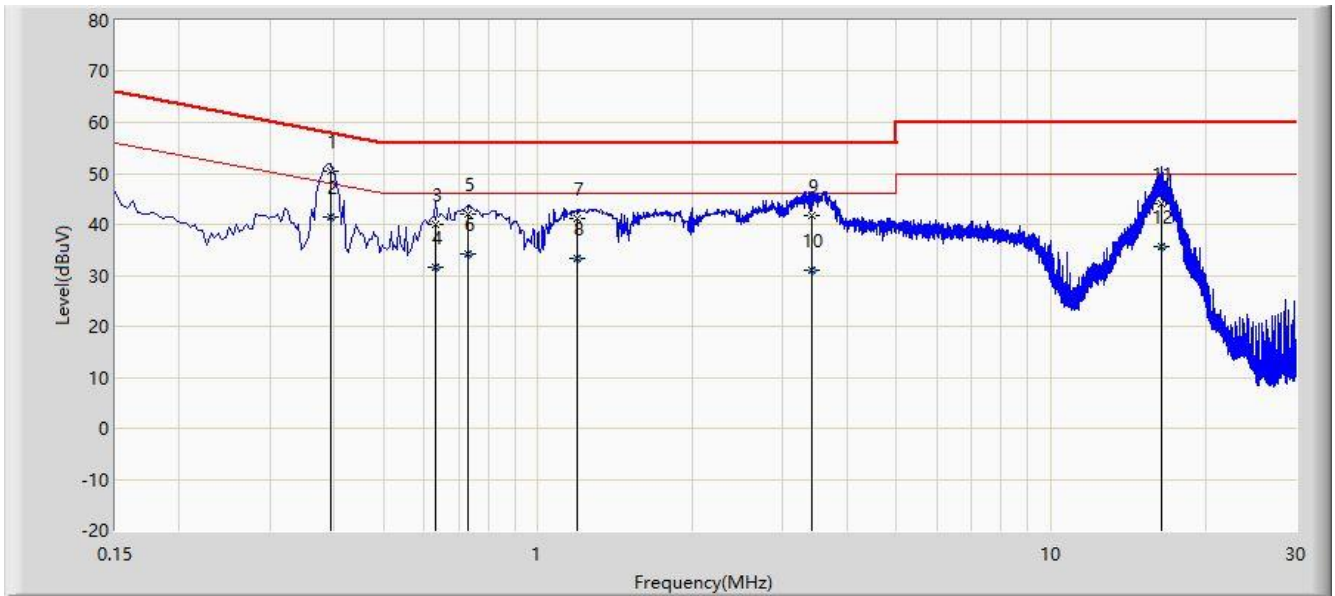


No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.390	51.488	41.393	-6.576	58.064	10.094	QP
2		*	0.390	42.327	32.233	-5.737	48.064	10.094	AV
3			0.726	42.232	32.156	-13.768	56.000	10.076	QP
4			0.726	34.426	24.350	-11.574	46.000	10.076	AV
5			1.094	39.207	29.257	-16.793	56.000	9.950	QP
6			1.094	29.640	19.690	-16.360	46.000	9.950	AV
7			2.122	40.920	30.992	-15.080	56.000	9.928	QP
8			2.122	32.593	22.666	-13.407	46.000	9.928	AV
9			3.722	42.540	32.659	-13.460	56.000	9.881	QP
10			3.722	32.360	22.478	-13.640	46.000	9.881	AV
11			16.370	42.719	32.670	-17.281	60.000	10.049	QP
12			16.370	34.602	24.553	-15.398	50.000	10.049	AV

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SR2	Time: 2020/03/30 - 13:41
Limit: NCC LP0002_CE_0.15MHz-30MHz	Engineer: Peter Syu
Probe: ENV216_Filter On	Polarity: Neutral
EUT: 無線基地台	Power: By PoE
Test Mode 1	



No	Flag	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV)	Factor (dB)	Type
1			0.394	50.408	40.288	-7.571	57.979	10.120	QP
2		*	0.394	41.418	31.298	-6.561	47.979	10.120	AV
3			0.630	39.913	29.766	-16.087	56.000	10.146	QP
4			0.630	31.460	21.314	-14.540	46.000	10.146	AV
5			0.730	42.060	31.965	-13.940	56.000	10.095	QP
6			0.730	34.314	24.218	-11.686	46.000	10.095	AV
7			1.190	41.090	31.135	-14.910	56.000	9.956	QP
8			1.190	33.471	23.515	-12.529	46.000	9.956	AV
9			3.422	41.713	31.796	-14.287	56.000	9.917	QP
10			3.422	31.064	21.147	-14.936	46.000	9.917	AV
11			16.386	44.177	34.105	-15.823	60.000	10.072	QP
12			16.386	35.796	25.724	-14.204	50.000	10.072	AV

Note: Measure Level (dBuV) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

5.2. 功率限制值

5.2.1. 適用標準

依據國家通訊傳播委員會低功率射頻電機技術規範之第 4.7.3 節：

使用於 5.15 GHz~5.25 GHz 頻段，供室外操作使用，最大傳導輸出功率應小於或等於 1 W；在水平面仰角超過 30 度時，其最大 EIRP 應小於或等於 21 dBm

使用頻率於 5.25 GHz~5.35 GHz 與 5.470 GHz~5.725 GHz 頻段，最大傳導輸出功率應小於或等於 250 mW 或 $11\text{dBm} + 10\log B$ (B 是 26 dB 發射頻寬，單位 MHz)之較小者。

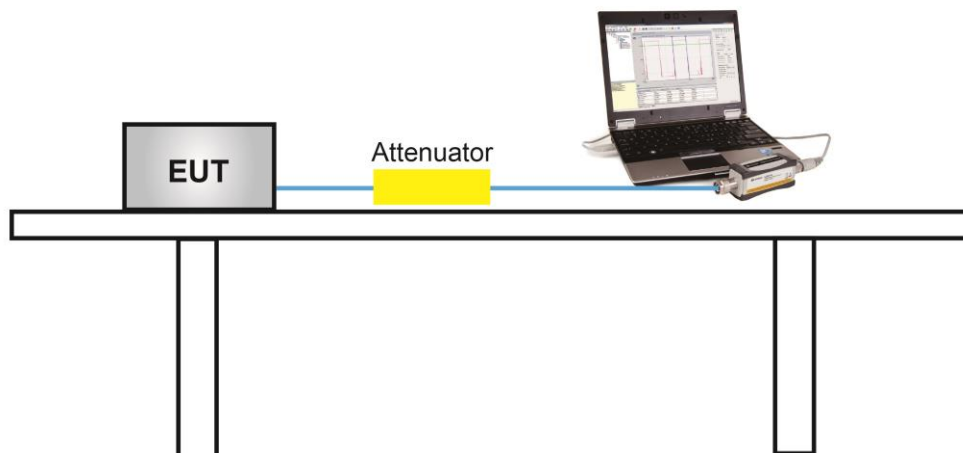
使用頻率於 5.725 GHz~5.850 GHz 頻段，最大傳導輸出功率應小於或等於 1 W。

使用超過 6 dBi 方向增益之發射天線時，應依超過 6 dBi 天線方向增益的 dBi 總量，等量減少最大傳導輸出功率及最大功率頻譜密度。

5.2.2. 量測方法

待測物之天線埠經由適當之衰減直接連至頻譜分析儀 RF 輸入端，峰值發射功率必須使用依據均方根等效電壓校準之儀器量測於任何連續傳輸之時段，量測結果須依儀器限制(如偵測器反應時間、相較於發射頻寬有限之解析頻寬能力，靈敏度等)調整得出正確之峰值量測或使用峰值功率表。

5.2.3. 測試架構圖



5.2.4. 功率限制值測試結果

Power output test was verified over all data rates of each mode shown as below table, and then choose the maximum power output (grey marker) for final test of each channel.

Ant 0 / Ant 0 + 1 + 2 + 3 port for OAW-AP1361:

Test Mode	Bandwidth	Channel	Frequency (MHz)	Data Rate/ Mbps	Average Power (dBm)
802.11a	20	36	5180	6Mbps	14.22
				24Mbps	14.14
				54Mbps	14.09
802.11n	20	36	5180	MCS0	12.76
				MCS3	12.65
				MCS7	12.58
802.11n	40	38	5190	MCS0	14.42
				MCS3	14.29
				MCS7	14.17
802.11ac	20	36	5180	MCS0	12.75
				MCS4	12.52
				MCS9	12.46
802.11ac	40	38	5190	MCS0	14.27
				MCS4	14.11
				MCS9	14.03
802.11ac	80	42	5210	MCS0	15.84
				MCS4	15.76
				MCS9	15.52
802.11ax	20	36	5180	MCS0	14.07
				MCS4	13.91
				MCS11	13.84
802.11ax	40	38	5190	MCS0	17.07
				MCS4	16.89
				MCS11	16.83
802.11ax	80	42	5210	MCS0	16.00
				MCS4	15.58
				MCS11	15.22

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR1	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1361 CDD Mode		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11a	6	36	5180	14.22	14.22	13.65	13.69	19.97	≤ 29.52	15.92	≤ 21.00	Pass
11a	6	44	5220	13.88	14.14	13.75	13.97	19.96	≤ 29.52	15.94	≤ 21.00	Pass
11a	6	48	5240	14.28	13.94	13.61	14.23	20.04	≤ 29.52	15.99	≤ 21.00	Pass
11a	6	52	5260	7.91	7.54	7.38	7.64	13.64	≤ 23.50	--	--	Pass
11a	6	60	5300	7.97	7.88	7.72	7.91	13.89	≤ 23.50	--	--	Pass
11a	6	64	5320	7.64	7.52	7.31	7.72	13.57	≤ 23.50	--	--	Pass
11a	6	100	5500	7.69	7.52	7.34	7.65	13.57	≤ 23.50	--	--	Pass
11a	6	120	5600	7.05	7.24	7.30	7.18	13.21	≤ 23.50	--	--	Pass
11a	6	140	5700	7.64	7.99	7.81	6.98	13.64	≤ 23.50	--	--	Pass
11a	6	144	5720	7.36	7.32	7.62	7.66	13.51	≤ 23.50	--	--	Pass
11a	6	149	5745	21.38	22.11	21.89	21.94	27.86	≤ 29.52	--	--	Pass
11a	6	157	5785	21.54	21.90	21.78	21.61	27.73	≤ 29.52	--	--	Pass
11a	6	165	5825	21.45	21.61	22.02	21.24	27.61	≤ 29.52	--	--	Pass
11n-HT20	MCS0	36	5180	12.76	13.25	13.98	13.05	19.30	≤ 29.52	15.38	≤ 21.00	Pass
11n-HT20	MCS0	44	5220	13.43	13.46	13.76	13.50	19.56	≤ 29.52	15.57	≤ 21.00	Pass
11n-HT20	MCS0	48	5240	15.04	14.55	13.94	14.20	20.47	≤ 29.52	16.38	≤ 21.00	Pass
11n-HT20	MCS0	52	5260	8.33	8.12	8.08	8.40	14.26	≤ 23.50	--	--	Pass
11n-HT20	MCS0	60	5300	8.31	8.66	8.18	7.98	14.31	≤ 23.50	--	--	Pass
11n-HT20	MCS0	64	5320	8.40	8.63	8.11	8.35	14.40	≤ 23.50	--	--	Pass
11n-HT20	MCS0	100	5500	8.29	8.39	8.26	8.45	14.37	≤ 23.50	--	--	Pass
11n-HT20	MCS0	120	5600	8.29	8.47	8.32	8.49	14.41	≤ 23.50	--	--	Pass
11n-HT20	MCS0	140	5700	7.96	8.21	7.80	7.74	13.95	≤ 23.50	--	--	Pass
11n-HT20	MCS0	144	5720	8.07	8.32	8.61	8.38	14.37	≤ 23.50	--	--	Pass
11n-HT20	MCS0	149	5745	21.18	22.01	22.03	21.41	27.69	≤ 29.52	--	--	Pass
11n-HT20	MCS0	157	5785	21.17	21.44	21.78	21.40	27.47	≤ 29.52	--	--	Pass
11n-HT20	MCS0	165	5825	21.12	21.29	21.94	20.95	27.36	≤ 29.52	--	--	Pass

11n-HT40	MCS0	38	5190	14.42	14.55	14.20	14.48	20.44	≤ 29.52	16.41	≤ 21.00	Pass
11n-HT40	MCS0	46	5230	17.33	17.05	17.16	16.94	23.14	≤ 29.52	19.12	≤ 21.00	Pass
11n-HT40	MCS0	54	5270	11.11	11.35	10.64	11.04	17.06	≤ 23.50	--	--	Pass
11n-HT40	MCS0	62	5310	10.49	10.84	10.44	10.89	16.69	≤ 23.50	--	--	Pass
11n-HT40	MCS0	102	5510	11.03	10.81	10.69	10.70	16.83	≤ 23.50	--	--	Pass
11n-HT40	MCS0	118	5590	11.02	10.44	10.92	10.70	16.80	≤ 23.50	--	--	Pass
11n-HT40	MCS0	134	5670	10.35	11.26	11.30	10.10	16.81	≤ 23.50	--	--	Pass
11n-HT40	MCS0	142	5710	10.95	10.87	10.57	10.89	16.84	≤ 23.50	--	--	Pass
11n-HT40	MCS0	151	5755	20.95	22.00	22.01	21.34	27.62	≤ 29.52	--	--	Pass
11n-HT40	MCS0	159	5795	21.11	21.72	21.90	21.29	27.54	≤ 29.52	--	--	Pass
11ac-VHT20	MCS0	36	5180	12.75	13.11	13.94	12.91	19.22	≤ 29.52	15.30	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	13.31	13.43	13.62	13.45	19.47	≤ 29.52	15.49	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	14.95	14.49	13.81	14.01	20.36	≤ 29.52	16.26	≤ 21.00	Pass
11ac-VHT20	MCS0	52	5260	8.21	8.08	7.92	8.37	14.17	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	60	5300	8.21	8.46	8.01	7.90	14.17	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	64	5320	8.24	8.44	7.99	8.27	14.26	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	100	5500	8.21	8.30	8.11	8.25	14.24	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	120	5600	8.27	8.47	8.29	8.39	14.38	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	140	5700	7.81	8.05	7.75	7.72	13.86	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.97	8.19	8.56	8.20	14.26	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	149	5745	21.15	21.97	21.96	21.33	27.64	≤ 29.52	--	--	Pass
11ac-VHT20	MCS0	157	5785	21.02	21.29	21.72	21.20	27.34	≤ 29.52	--	--	Pass
11ac-VHT20	MCS0	165	5825	20.99	21.15	21.92	20.90	27.28	≤ 29.52	--	--	Pass
11ac-VHT40	MCS0	38	5190	14.27	14.51	14.07	14.45	20.35	≤ 29.52	16.32	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	17.31	16.89	16.98	16.91	23.05	≤ 29.52	19.01	≤ 21.00	Pass
11ac-VHT40	MCS0	54	5270	11.09	11.29	10.60	10.97	17.02	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	62	5310	10.31	10.65	10.42	10.86	16.59	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	102	5510	10.83	10.75	10.61	10.70	16.74	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	118	5590	11.01	10.40	10.82	10.53	16.72	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	134	5670	10.24	11.16	11.13	10.06	16.70	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	142	5710	10.82	10.80	10.49	10.81	16.75	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	151	5755	20.86	21.99	21.90	21.20	27.53	≤ 29.52	--	--	Pass
11ac-VHT40	MCS0	159	5795	20.96	21.64	21.82	21.10	27.42	≤ 29.52	--	--	Pass
11ac-VHT80	MCS0	42	5210	15.84	16.10	15.73	16.43	22.05	≤ 29.52	18.04	≤ 21.00	Pass
11ac-VHT80	MCS0	58	5290	13.54	13.94	13.99	13.65	19.80	≤ 23.50	--	--	Pass
11ac-VHT80	MCS0	106	5530	13.54	13.79	13.81	13.63	19.71	≤ 23.50	--	--	Pass
11ac-VHT80	MCS0	122	5610	13.29	13.31	13.24	13.01	19.23	≤ 23.50	--	--	Pass

11ac-VHT80	MCS0	138	5690	13.26	13.90	13.53	13.05	19.47	≤ 23.50	--	--	Pass
11ac-VHT80	MCS0	155	5775	20.88	21.70	21.36	21.10	27.29	≤ 29.52	--	--	Pass
11ac-VHT 80 +80	MCS0	42	5210	13.95	13.27	--	--	16.63	≤ 29.52	--	--	Pass
		58	5290			13.62	13.57	16.61	≤ 23.50	--	--	Pass
11ac-VHT 80 +80	MCS0	106	5530	12.99	13.08	--	--	19.42	≤ 23.50	--	--	Pass
		122	5610	--	--	13.40	14.05			--	--	Pass
11ax-HE20	MCS0	36	5180	14.07	13.76	14.04	14.10	20.02	≤ 29.52	16.01	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	14.12	14.04	13.42	12.90	19.67	≤ 29.52	15.59	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	13.69	13.77	14.00	13.70	19.81	≤ 29.52	15.82	≤ 21.00	Pass
11ax-HE20	MCS0	52	5260	8.24	7.89	7.68	7.92	13.96	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	60	5300	7.66	8.19	7.56	8.02	13.89	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	64	5320	7.86	7.95	7.55	7.73	13.80	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	100	5500	7.62	7.93	7.95	8.01	13.90	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	120	5600	7.64	7.64	7.88	7.56	13.70	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	140	5700	7.86	8.33	7.59	7.37	13.82	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	144	5720	7.23	8.16	7.92	7.56	13.75	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	149	5745	21.19	21.98	21.86	21.53	27.67	≤ 29.52	--	--	Pass
11ax-HE20	MCS0	157	5785	21.13	21.39	21.93	21.02	27.40	≤ 29.52	--	--	Pass
11ax-HE20	MCS0	165	5825	21.33	21.66	22.38	21.37	27.73	≤ 29.52	--	--	Pass
11ax-HE40	MCS0	38	5190	17.07	17.32	17.38	17.04	23.23	≤ 29.52	19.24	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	17.13	17.02	16.81	16.26	22.84	≤ 29.52	18.80	≤ 21.00	Pass
11ax-HE40	MCS0	54	5270	11.33	11.83	11.33	10.98	17.40	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	62	5310	11.20	11.15	10.44	11.29	17.05	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	102	5510	11.62	12.01	11.97	11.98	17.92	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	118	5590	11.02	11.08	11.12	10.90	17.05	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	134	5670	10.38	11.51	11.05	10.10	16.82	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	142	5710	10.65	11.25	11.13	11.10	17.06	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	151	5755	21.07	22.03	21.92	21.51	27.67	≤ 29.52	--	--	Pass
11ax-HE40	MCS0	159	5795	20.91	21.44	22.04	21.64	27.55	≤ 29.52	--	--	Pass
11ax-HE80	MCS0	42	5210	16.00	16.12	15.89	16.51	22.16	≤ 29.52	18.14	≤ 21.00	Pass
11ax-HE80	MCS0	58	5290	13.70	13.97	14.08	13.84	19.92	≤ 23.50	--	--	Pass
11ax-HE80	MCS0	106	5530	13.67	13.95	13.92	13.71	19.83	≤ 23.50	--	--	Pass
11ax-HE80	MCS0	122	5610	13.41	13.36	13.40	13.03	19.32	≤ 23.50	--	--	Pass
11ax-HE80	MCS0	138	5690	13.31	13.99	13.55	13.19	19.54	≤ 23.50	--	--	Pass
11ax-HE80	MCS0	155	5775	20.98	21.73	21.53	21.29	27.41	≤ 29.52	--	--	Pass
11ax-HE80 +80	MCS0	42	5210	14.08	13.33	--	--	16.73	≤ 29.52	--	--	Pass
		58	5290	--	--	13.73	13.66	16.71	≤ 23.50	--	--	Pass

11ax-HE80 +80	MCS0	106	5530	13.09	13.16	--	--	19.51	≤ 23.50	--	--	Pass
		122	5610	--	--	13.54	14.09			--	--	Pass

Note 1: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: Max EIRP of 30° Elevation Angle (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} + \text{Ant 0 30° Elevation Angle Gain}) / 10} + 10^{(\text{Ant 1 Average Power} + \text{Ant 1 30° Elevation Angle}) / 10} + 10^{(\text{Ant 2 Average Power} + \text{Ant 2 30° Elevation Angle}) / 10} + 10^{(\text{Ant 3 Average Power} + \text{Ant 3 30° Elevation Angle}) / 10}\}$.

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR1	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1361 Beamforming Mode		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11n-HT20	MCS0	36	5180	12.67	13.09	13.63	13.29	19.20	≤ 23.50	15.26	≤ 21.00	Pass
11n-HT20	MCS0	44	5220	13.48	13.69	13.89	13.41	19.64	≤ 23.50	15.66	≤ 21.00	Pass
11n-HT20	MCS0	48	5240	14.85	14.48	14.01	14.20	20.42	≤ 23.50	16.34	≤ 21.00	Pass
11n-HT20	MCS0	52	5260	8.23	8.44	8.24	8.32	14.33	≤ 17.48	--	--	Pass
11n-HT20	MCS0	60	5300	8.02	8.45	8.27	8.40	14.31	≤ 17.48	--	--	Pass
11n-HT20	MCS0	64	5320	8.18	8.32	8.39	8.21	14.30	≤ 17.48	--	--	Pass
11n-HT20	MCS0	100	5500	8.65	8.69	8.43	8.52	14.59	≤ 17.48	--	--	Pass
11n-HT20	MCS0	120	5600	8.10	8.58	8.49	8.26	14.38	≤ 17.48	--	--	Pass
11n-HT20	MCS0	140	5700	7.93	8.40	7.91	7.81	14.04	≤ 17.48	--	--	Pass
11n-HT20	MCS0	144	5720	8.09	8.55	8.22	8.04	14.25	≤ 17.48	--	--	Pass
11n-HT20	MCS0	149	5745	16.29	16.65	16.12	16.82	22.50	≤ 23.50	--	--	Pass
11n-HT20	MCS0	157	5785	16.19	16.43	16.89	16.45	22.52	≤ 23.50	--	--	Pass
11n-HT20	MCS0	165	5825	16.62	16.03	16.66	16.38	22.45	≤ 23.50	--	--	Pass
11n-HT40	MCS0	38	5190	14.14	14.57	14.26	14.67	20.44	≤ 23.50	16.43	≤ 21.00	Pass
11n-HT40	MCS0	46	5230	16.99	17.04	17.00	17.03	23.04	≤ 23.50	19.03	≤ 21.00	Pass
11n-HT40	MCS0	54	5270	10.98	11.12	11.06	11.18	17.11	≤ 17.48	--	--	Pass
11n-HT40	MCS0	62	5310	10.71	10.58	10.32	10.88	16.65	≤ 17.48	--	--	Pass
11n-HT40	MCS0	102	5510	10.57	10.96	10.68	10.77	16.77	≤ 17.48	--	--	Pass
11n-HT40	MCS0	118	5590	10.87	10.40	11.09	10.89	16.84	≤ 17.48	--	--	Pass
11n-HT40	MCS0	134	5670	10.67	11.54	11.16	10.34	16.97	≤ 17.48	--	--	Pass
11n-HT40	MCS0	142	5710	10.98	10.98	10.59	10.84	16.87	≤ 17.48	--	--	Pass
11n-HT40	MCS0	151	5755	16.22	16.80	16.47	16.69	22.57	≤ 23.50	--	--	Pass
11n-HT40	MCS0	159	5795	16.09	16.47	16.66	16.35	22.42	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	36	5180	12.64	12.92	13.57	13.14	19.10	≤ 23.50	15.16	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	13.34	13.50	13.78	13.23	19.49	≤ 23.50	15.51	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	14.84	14.42	13.93	14.09	20.35	≤ 23.50	16.27	≤ 21.00	Pass

11ac-VHT20	MCS0	52	5260	8.19	8.34	8.11	8.28	14.25	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.90	8.40	8.23	8.27	14.22	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	64	5320	8.16	8.14	8.21	8.13	14.18	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	100	5500	8.64	8.64	8.32	8.35	14.51	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	120	5600	8.05	8.44	8.36	8.26	14.30	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	140	5700	7.80	8.20	7.80	7.65	13.89	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.92	8.35	8.09	7.94	14.10	≤ 17.48	--	--	Pass
11ac-VHT20	MCS0	149	5745	16.17	16.51	15.92	16.80	22.38	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	157	5785	16.15	16.43	16.72	16.33	22.43	≤ 23.50	--	--	Pass
11ac-VHT20	MCS0	165	5825	16.47	15.87	16.63	16.23	22.33	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	38	5190	14.04	14.42	14.07	14.54	20.29	≤ 23.50	16.29	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	16.96	16.87	16.96	16.98	22.96	≤ 23.50	18.95	≤ 21.00	Pass
11ac-VHT40	MCS0	54	5270	10.92	10.93	10.96	11.16	17.01	≤ 17.48	--	--	Pass
11ac-VHT40	MCS0	62	5310	10.55	10.47	10.17	10.70	16.50	≤ 17.48	--	--	Pass
11ac-VHT40	MCS0	102	5510	10.44	10.79	10.65	10.73	16.68	≤ 17.48	--	--	Pass
11ac-VHT40	MCS0	118	5590	10.80	10.30	11.06	10.75	16.76	≤ 17.48	--	--	Pass
11ac-VHT40	MCS0	134	5670	10.49	11.42	11.14	10.14	16.85	≤ 17.48	--	--	Pass
11ac-VHT40	MCS0	142	5710	10.95	10.91	10.49	10.79	16.81	≤ 17.48	--	--	Pass
11ac-VHT40	MCS0	151	5755	16.18	16.71	16.31	16.61	22.48	≤ 23.50	--	--	Pass
11ac-VHT40	MCS0	159	5795	16.08	16.36	16.63	16.26	22.36	≤ 23.50	--	--	Pass
11ac-VHT80	MCS0	42	5210	16.53	16.18	16.41	16.49	22.43	≤ 23.50	18.41	≤ 21.00	Pass
11ac-VHT80	MCS0	58	5290	10.82	10.63	10.45	11.02	16.76	≤ 17.48	--	--	Pass
11ac-VHT80	MCS0	106	5530	10.57	10.72	10.48	10.53	16.60	≤ 17.48	--	--	Pass
11ac-VHT80	MCS0	122	5610	10.79	10.45	10.54	10.61	16.62	≤ 17.48	--	--	Pass
11ac-VHT80	MCS0	138	5690	10.14	10.92	10.79	10.36	16.58	≤ 17.48	--	--	Pass
11ac-VHT80	MCS0	155	5775	16.28	16.69	16.92	16.66	22.66	≤ 23.50	--	--	Pass
11ac-VHT 80 +80	MCS0	42	5210	10.70	10.34	--	--	13.53	≤ 23.50	--	--	Pass
		58	5290	--	--	10.82	11.21	14.03	≤ 17.48	--	--	Pass
11ac-VHT 80 +80	MCS0	106	5530	11.01	10.90	--	--	16.87	≤ 17.48	--	--	Pass
		122	5610	--	--	10.99	10.47					
11ax-HE20	MCS0	36	5180	14.17	14.16	13.96	13.85	20.06	≤ 23.50	16.03	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	13.93	13.95	13.47	12.84	19.59	≤ 23.50	15.54	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	13.77	13.74	13.79	13.61	19.75	≤ 23.50	15.74	≤ 21.00	Pass
11ax-HE20	MCS0	52	5260	8.46	8.10	7.88	8.02	14.14	≤ 17.48	--	--	Pass
11ax-HE20	MCS0	60	5300	7.76	8.20	7.39	7.63	13.78	≤ 17.48	--	--	Pass
11ax-HE20	MCS0	64	5320	7.83	7.65	7.90	7.72	13.80	≤ 17.48	--	--	Pass
11ax-HE20	MCS0	100	5500	7.81	8.28	7.93	7.91	14.01	≤ 17.48	--	--	Pass

11ax-HE20	MCS0	120	5600	7.53	7.93	7.87	7.57	13.75	≤ 17.48	--	--	Pass
11ax-HE20	MCS0	140	5700	7.90	8.53	7.69	7.47	13.94	≤ 17.48	--	--	Pass
11ax-HE20	MCS0	144	5720	7.34	8.15	7.89	7.57	13.77	≤ 17.48	--	--	Pass
11ax-HE20	MCS0	149	5745	16.33	16.81	17.03	17.10	22.85	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	157	5785	16.30	16.70	16.57	16.84	22.63	≤ 23.50	--	--	Pass
11ax-HE20	MCS0	165	5825	16.30	16.18	16.86	16.16	22.41	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	38	5190	17.25	17.19	17.46	17.06	23.26	≤ 23.50	19.27	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	16.98	17.16	16.98	16.22	22.87	≤ 23.50	18.85	≤ 21.00	Pass
11ax-HE40	MCS0	54	5270	10.96	10.82	10.51	10.56	16.74	≤ 17.48	--	--	Pass
11ax-HE40	MCS0	62	5310	11.04	11.30	10.54	11.44	17.11	≤ 17.48	--	--	Pass
11ax-HE40	MCS0	102	5510	10.53	10.46	10.30	10.22	16.40	≤ 17.48	--	--	Pass
11ax-HE40	MCS0	118	5590	11.22	11.06	11.47	10.84	17.17	≤ 17.48	--	--	Pass
11ax-HE40	MCS0	134	5670	10.61	11.49	11.09	10.09	16.87	≤ 17.48	--	--	Pass
11ax-HE40	MCS0	142	5710	10.66	11.18	10.72	10.99	16.91	≤ 17.48	--	--	Pass
11ax-HE40	MCS0	151	5755	16.48	16.96	16.99	16.90	22.86	≤ 23.50	--	--	Pass
11ax-HE40	MCS0	159	5795	16.49	16.65	17.04	16.59	22.72	≤ 23.50	--	--	Pass
11ax-HE80	MCS0	42	5210	16.57	16.25	16.45	16.51	22.47	≤ 23.50	18.45	≤ 21.00	Pass
11ax-HE80	MCS0	58	5290	10.94	10.74	10.47	11.04	16.82	≤ 17.48	--	--	Pass
11ax-HE80	MCS0	106	5530	10.69	10.72	10.59	10.59	16.67	≤ 17.48	--	--	Pass
11ax-HE80	MCS0	122	5610	10.84	10.60	10.57	10.66	16.69	≤ 17.48	--	--	Pass
11ax-HE80	MCS0	138	5690	10.19	11.08	10.81	10.43	16.66	≤ 17.48	--	--	Pass
11ax-HE80	MCS0	155	5775	16.31	16.81	16.92	16.82	22.74	≤ 23.50	--	--	Pass
11ax-HE80 +80	MCS0	42	5210	10.71	10.36	--	--	13.55	≤ 23.50	--	--	Pass
		58	5290	--	--	10.82	11.28	14.07	≤ 17.48	--	--	Pass
11ax-HE80 +80	MCS0	106	5530	11.10	11.04	--	--	17.01	≤ 17.48	--	--	Pass
		122	5610	--	--	11.16	10.64					

Note 1: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: Max EIRP of 30° Elevation Angle (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} + \text{Ant 0 30° Elevation Angle Gain}) / 10} + 10^{(\text{Ant 1 Average Power} + \text{Ant 1 30° Elevation Angle}) / 10} + 10^{(\text{Ant 2 Average Power} + \text{Ant 2 30° Elevation Angle}) / 10} + 10^{(\text{Ant 3 Average Power} + \text{Ant 3 30° Elevation Angle}) / 10}\}$.

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR1	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1361 Scan Antenna		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11a	6	36	5180	10.69	≤ 30.00	4.86	≤ 21.00	Pass
11a	6	44	5220	10.75	≤ 30.00	4.92	≤ 21.00	Pass
11a	6	48	5240	10.85	≤ 30.00	5.02	≤ 21.00	Pass
11a	6	149	5745	10.66	≤ 30.00	--	--	Pass
11a	6	157	5785	10.51	≤ 30.00	--	--	Pass
11a	6	165	5825	10.72	≤ 30.00	--	--	Pass

Note: Max EIRP of 30° Elevation Angle (dBm) = Average Power (dBm) + Ant 0 30° Elevation Angle Gain (dBi).

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR1	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1361D CDD Mode		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11a	6	36	5180	9.17	9.29	9.38	9.43	15.34	≤ 28.60	18.60	≤ 21.00	Pass
11a	6	44	5220	9.65	9.13	9.43	9.43	15.43	≤ 28.60	18.69	≤ 21.00	Pass
11a	6	48	5240	9.69	9.66	9.48	9.44	15.59	≤ 28.60	18.84	≤ 21.00	Pass
11a	6	52	5260	8.69	8.75	8.14	8.46	14.54	≤ 22.58	--	--	Pass
11a	6	60	5300	7.99	7.98	7.31	7.37	13.70	≤ 22.58	--	--	Pass
11a	6	64	5320	7.50	7.79	7.10	7.14	13.41	≤ 22.58	--	--	Pass
11a	6	100	5500	8.85	8.68	8.65	7.96	14.57	≤ 22.58	--	--	Pass
11a	6	120	5600	8.01	8.15	8.27	8.41	14.23	≤ 22.58	--	--	Pass
11a	6	140	5700	7.51	8.07	8.20	7.51	13.85	≤ 22.58	--	--	Pass
11a	6	144	5720	6.98	6.80	7.25	7.31	13.11	≤ 22.58	--	--	Pass
11a	6	149	5745	20.80	20.88	21.26	20.88	26.98	≤ 28.60	--	--	Pass
11a	6	157	5785	21.33	21.04	21.68	21.44	27.40	≤ 28.60	--	--	Pass
11a	6	165	5825	20.75	20.27	20.69	20.30	26.53	≤ 28.60	--	--	Pass
11n-HT20	MCS0	36	5180	9.89	9.63	9.31	9.31	15.56	≤ 28.60	18.81	≤ 21.00	Pass
11n-HT20	MCS0	44	5220	10.24	9.42	9.97	9.81	15.89	≤ 28.60	19.15	≤ 21.00	Pass
11n-HT20	MCS0	48	5240	10.46	10.07	9.74	9.81	16.05	≤ 28.60	19.30	≤ 21.00	Pass
11n-HT20	MCS0	52	5260	8.67	8.46	8.12	8.39	14.44	≤ 22.58	--	--	Pass
11n-HT20	MCS0	60	5300	8.36	8.72	8.45	8.36	14.50	≤ 22.58	--	--	Pass
11n-HT20	MCS0	64	5320	8.18	8.44	8.27	7.85	14.21	≤ 22.58	--	--	Pass
11n-HT20	MCS0	100	5500	9.11	8.63	8.70	8.41	14.74	≤ 22.58	--	--	Pass
11n-HT20	MCS0	120	5600	8.40	8.36	8.21	8.51	14.39	≤ 22.58	--	--	Pass
11n-HT20	MCS0	140	5700	8.02	9.22	8.85	8.71	14.74	≤ 22.58	--	--	Pass
11n-HT20	MCS0	144	5720	7.38	7.91	8.12	8.10	13.91	≤ 22.58	--	--	Pass
11n-HT20	MCS0	149	5745	21.08	21.37	21.23	21.71	27.37	≤ 28.60	--	--	Pass
11n-HT20	MCS0	157	5785	21.12	21.37	21.48	21.11	27.29	≤ 28.60	--	--	Pass
11n-HT20	MCS0	165	5825	20.43	20.03	20.81	20.15	26.39	≤ 28.60	--	--	Pass

11n-HT40	MCS0	38	5190	10.03	9.80	9.83	10.02	15.94	≤ 28.60	19.20	≤ 21.00	Pass
11n-HT40	MCS0	46	5230	10.47	9.80	9.90	10.31	16.15	≤ 28.60	19.41	≤ 21.00	Pass
11n-HT40	MCS0	54	5270	11.93	12.33	11.68	12.15	18.05	≤ 22.58	--	--	Pass
11n-HT40	MCS0	62	5310	11.55	11.94	11.06	11.44	17.53	≤ 22.58	--	--	Pass
11n-HT40	MCS0	102	5510	11.37	11.23	11.02	10.93	17.16	≤ 22.58	--	--	Pass
11n-HT40	MCS0	118	5590	10.97	11.22	11.18	11.14	17.15	≤ 22.58	--	--	Pass
11n-HT40	MCS0	134	5670	11.08	11.43	11.02	10.72	17.09	≤ 22.58	--	--	Pass
11n-HT40	MCS0	142	5710	10.92	11.18	11.47	10.99	17.17	≤ 22.58	--	--	Pass
11n-HT40	MCS0	151	5755	20.60	21.28	20.82	20.57	26.85	≤ 28.60	--	--	Pass
11n-HT40	MCS0	159	5795	20.13	20.38	21.10	20.65	26.60	≤ 28.60	--	--	Pass
11ac-VHT20	MCS0	36	5180	9.85	9.60	9.18	9.31	15.51	≤ 28.60	18.76	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	10.09	9.31	9.80	9.72	15.76	≤ 28.60	19.02	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	10.39	9.91	9.72	9.64	15.95	≤ 28.60	19.19	≤ 21.00	Pass
11ac-VHT20	MCS0	52	5260	8.51	8.46	7.99	8.26	14.33	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	60	5300	8.28	8.55	8.40	8.27	14.40	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	64	5320	8.03	8.39	8.19	7.83	14.14	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	100	5500	9.08	8.57	8.55	8.30	14.65	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	120	5600	8.32	8.21	8.04	8.47	14.28	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	140	5700	8.00	9.18	8.74	8.53	14.65	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.37	7.73	8.03	8.09	13.83	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	149	5745	21.04	21.35	21.21	21.70	27.35	≤ 28.60	--	--	Pass
11ac-VHT20	MCS0	157	5785	21.06	21.22	21.29	20.99	27.16	≤ 28.60	--	--	Pass
11ac-VHT20	MCS0	165	5825	20.28	20.00	20.70	19.98	26.27	≤ 28.60	--	--	Pass
11ac-VHT40	MCS0	38	5190	9.98	9.65	9.70	9.97	15.85	≤ 28.60	19.11	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	10.44	9.73	9.77	10.20	16.07	≤ 28.60	19.33	≤ 21.00	Pass
11ac-VHT40	MCS0	54	5270	11.77	12.30	11.65	12.05	17.97	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	62	5310	11.38	11.91	11.00	11.34	17.44	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	102	5510	11.23	11.04	10.85	10.75	16.99	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	118	5590	10.96	11.20	11.15	11.11	17.13	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	134	5670	11.01	11.40	11.01	10.52	17.02	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	142	5710	10.72	11.12	11.28	10.86	17.02	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	151	5755	20.40	21.25	20.68	20.47	26.73	≤ 28.60	--	--	Pass
11ac-VHT40	MCS0	159	5795	19.93	20.24	20.98	20.48	26.45	≤ 28.60	--	--	Pass
11ac-VHT80	MCS0	42	5210	9.66	9.59	9.62	9.30	15.57	≤ 28.60	18.81	≤ 21.00	Pass
11ac-VHT80	MCS0	58	5290	14.39	14.37	14.01	13.98	20.21	≤ 22.58	--	--	Pass
11ac-VHT80	MCS0	106	5530	14.11	13.96	13.93	13.50	19.90	≤ 22.58	--	--	Pass
11ac-VHT80	MCS0	122	5610	13.22	13.65	13.87	13.74	19.65	≤ 22.58	--	--	Pass

11ac-VHT80	MCS0	138	5690	13.15	14.17	14.20	14.09	19.94	≤ 22.58	--	--	Pass
11ac-VHT80	MCS0	155	5775	20.53	21.08	20.99	20.64	26.84	≤ 28.60	--	--	Pass
11ac-VHT 80 +80	MCS0	42	5210	12.78	11.88	--	--	15.36	≤ 28.60	--	--	Pass
		58	5290	--	--	12.91	12.10	15.53	≤ 22.58	--	--	Pass
11ac-VHT 80 +80	MCS0	106	5530	15.18	14.66	--	--	20.95	≤ 22.58	--	--	Pass
		122	5610	--	--	14.98	14.88					
11ax-HE20	MCS0	36	5180	10.03	9.94	10.14	10.07	16.07	≤ 28.60	19.32	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	9.72	9.98	9.70	9.48	15.74	≤ 28.60	18.99	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	10.17	9.76	9.69	9.38	15.78	≤ 28.60	19.02	≤ 21.00	Pass
11ax-HE20	MCS0	52	5260	8.77	8.89	7.81	8.13	14.44	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	60	5300	8.59	8.73	8.14	8.37	14.48	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	64	5320	8.61	8.43	8.57	8.38	14.52	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	100	5500	8.75	8.50	8.37	8.09	14.45	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	120	5600	8.03	8.42	8.33	7.95	14.21	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	140	5700	7.58	8.61	8.30	7.93	14.14	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	144	5720	7.78	8.33	7.92	8.17	14.08	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	149	5745	20.13	20.97	20.77	20.65	26.66	≤ 28.60	--	--	Pass
11ax-HE20	MCS0	157	5785	21.14	21.11	21.48	20.69	27.13	≤ 28.60	--	--	Pass
11ax-HE20	MCS0	165	5825	20.77	20.49	20.78	20.55	26.67	≤ 28.60	--	--	Pass
11ax-HE40	MCS0	38	5190	9.86	10.27	9.61	9.93	15.94	≤ 28.60	19.19	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	9.82	9.67	9.40	9.49	15.62	≤ 28.60	18.87	≤ 21.00	Pass
11ax-HE40	MCS0	54	5270	11.34	11.31	11.28	11.35	17.34	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	62	5310	11.41	11.43	11.25	11.22	17.35	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	102	5510	11.11	11.00	11.14	11.34	17.17	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	118	5590	10.68	11.30	11.50	11.51	17.28	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	134	5670	11.08	11.40	11.45	11.20	17.31	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	142	5710	11.05	11.50	11.66	11.59	17.48	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	151	5755	20.43	20.80	20.69	20.69	26.68	≤ 28.60	--	--	Pass
11ax-HE40	MCS0	159	5795	20.69	20.88	21.31	20.60	26.90	≤ 28.60	--	--	Pass
11ax-HE80	MCS0	42	5210	9.82	9.74	9.72	9.37	15.69	≤ 28.60	18.93	≤ 21.00	Pass
11ax-HE80	MCS0	58	5290	14.55	14.46	14.21	14.14	20.36	≤ 22.58	--	--	Pass
11ax-HE80	MCS0	106	5530	14.16	13.97	14.08	13.67	19.99	≤ 22.58	--	--	Pass
11ax-HE80	MCS0	122	5610	13.31	13.83	14.06	13.89	19.80	≤ 22.58	--	--	Pass
11ax-HE80	MCS0	138	5690	13.27	14.23	14.31	14.10	20.02	≤ 22.58	--	--	Pass
11ax-HE80	MCS0	155	5775	20.65	21.21	21.17	20.83	26.99	≤ 28.60	--	--	Pass
11ax-HE80 +80	MCS0	42	5210	12.95	12.03	--	--	15.52	≤ 28.60	--	--	Pass
		58	5290	--	--	12.94	12.13	15.56	≤ 22.58	--	--	Pass

11ax-HE80 +80	MCS0	106	5530	15.24	14.67	--	--	21.04	≤ 22.58	--	--	Pass
		122	5610	--	--	15.13	15.03					

Note 1: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: Max EIRP of 30° Elevation Angle (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} + \text{Ant 0 30° Elevation Angle Gain}) / 10} + 10^{(\text{Ant 1 Average Power} + \text{Ant 1 30° Elevation Angle}) / 10} + 10^{(\text{Ant 2 Average Power} + \text{Ant 2 30° Elevation Angle}) / 10} + 10^{(\text{Ant 3 Average Power} + \text{Ant 3 30° Elevation Angle}) / 10}\}$.

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR1	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1361D Beamforming Mode		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11n-HT20	MCS0	36	5180	9.47	9.91	9.19	9.31	15.50	≤ 22.58	18.74	≤ 21.00	Pass
11n-HT20	MCS0	44	5220	10.24	9.67	9.78	10.13	15.98	≤ 22.58	19.24	≤ 21.00	Pass
11n-HT20	MCS0	48	5240	10.13	9.98	9.61	10.11	15.98	≤ 22.58	19.24	≤ 21.00	Pass
11n-HT20	MCS0	52	5260	8.66	8.62	8.32	8.61	14.58	≤ 16.56	--	--	Pass
11n-HT20	MCS0	60	5300	8.36	9.10	8.29	8.11	14.50	≤ 16.56	--	--	Pass
11n-HT20	MCS0	64	5320	8.04	8.58	8.11	7.98	14.20	≤ 16.56	--	--	Pass
11n-HT20	MCS0	100	5500	9.21	8.98	8.80	8.05	14.80	≤ 16.56	--	--	Pass
11n-HT20	MCS0	120	5600	8.26	8.42	8.15	8.09	14.25	≤ 16.56	--	--	Pass
11n-HT20	MCS0	140	5700	8.15	9.30	8.93	8.48	14.76	≤ 16.56	--	--	Pass
11n-HT20	MCS0	144	5720	7.56	8.01	8.30	7.74	13.93	≤ 16.56	--	--	Pass
11n-HT20	MCS0	149	5745	15.58	15.78	15.53	15.63	21.65	≤ 22.58	--	--	Pass
11n-HT20	MCS0	157	5785	15.36	15.05	15.80	15.38	21.43	≤ 22.58	--	--	Pass
11n-HT20	MCS0	165	5825	15.90	15.13	15.40	15.37	21.48	≤ 22.58	--	--	Pass
11n-HT40	MCS0	38	5190	10.02	9.85	9.90	10.01	15.97	≤ 22.58	19.22	≤ 21.00	Pass
11n-HT40	MCS0	46	5230	10.19	10.18	10.09	10.19	16.18	≤ 22.58	19.44	≤ 21.00	Pass
11n-HT40	MCS0	54	5270	9.69	9.87	9.59	9.30	15.64	≤ 16.56	--	--	Pass
11n-HT40	MCS0	62	5310	9.79	9.88	9.94	9.39	15.78	≤ 16.56	--	--	Pass
11n-HT40	MCS0	102	5510	10.31	9.56	10.17	9.59	15.94	≤ 16.56	--	--	Pass
11n-HT40	MCS0	118	5590	9.49	9.56	9.82	10.01	15.75	≤ 16.56	--	--	Pass
11n-HT40	MCS0	134	5670	8.95	9.75	9.30	9.69	15.45	≤ 16.56	--	--	Pass
11n-HT40	MCS0	142	5710	9.48	10.58	9.92	10.00	16.03	≤ 16.56	--	--	Pass
11n-HT40	MCS0	151	5755	15.26	15.97	15.67	15.80	21.70	≤ 22.58	--	--	Pass
11n-HT40	MCS0	159	5795	15.69	15.69	16.20	15.73	21.85	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	36	5180	9.30	9.78	9.00	9.19	15.35	≤ 22.58	18.59	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	10.21	9.49	9.71	10.10	15.91	≤ 22.58	19.17	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	10.01	9.91	9.48	10.05	15.89	≤ 22.58	19.15	≤ 21.00	Pass

11ac-VHT20	MCS0	52	5260	8.54	8.59	8.26	8.55	14.51	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	60	5300	8.32	8.92	8.13	8.01	14.38	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	64	5320	7.93	8.55	8.05	7.90	14.14	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	100	5500	9.11	8.91	8.69	7.99	14.72	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	120	5600	8.21	8.24	8.13	8.07	14.18	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	140	5700	8.05	9.15	8.74	8.37	14.62	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.39	7.87	8.26	7.54	13.80	≤ 16.56	--	--	Pass
11ac-VHT20	MCS0	149	5745	15.45	15.73	15.45	15.44	21.54	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	157	5785	15.18	14.94	15.74	15.23	21.30	≤ 22.58	--	--	Pass
11ac-VHT20	MCS0	165	5825	15.86	15.05	15.30	15.31	21.41	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	38	5190	9.91	9.71	9.73	9.90	15.83	≤ 22.58	19.09	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	10.19	10.18	9.99	10.07	16.13	≤ 22.58	19.38	≤ 21.00	Pass
11ac-VHT40	MCS0	54	5270	9.51	9.72	9.57	9.25	15.54	≤ 16.56	--	--	Pass
11ac-VHT40	MCS0	62	5310	9.77	9.76	9.81	9.30	15.69	≤ 16.56	--	--	Pass
11ac-VHT40	MCS0	102	5510	10.12	9.46	10.06	9.55	15.83	≤ 16.56	--	--	Pass
11ac-VHT40	MCS0	118	5590	9.44	9.48	9.81	9.92	15.69	≤ 16.56	--	--	Pass
11ac-VHT40	MCS0	134	5670	8.79	9.75	9.23	9.68	15.40	≤ 16.56	--	--	Pass
11ac-VHT40	MCS0	142	5710	9.46	10.39	9.88	9.84	15.93	≤ 16.56	--	--	Pass
11ac-VHT40	MCS0	151	5755	15.16	15.97	15.65	15.78	21.67	≤ 22.58	--	--	Pass
11ac-VHT40	MCS0	159	5795	15.60	15.64	16.16	15.66	21.79	≤ 22.58	--	--	Pass
11ac-VHT80	MCS0	42	5210	9.64	9.85	9.67	9.38	15.66	≤ 22.58	18.90	≤ 21.00	Pass
11ac-VHT80	MCS0	58	5290	9.78	9.48	9.36	9.36	15.52	≤ 16.56	--	--	Pass
11ac-VHT80	MCS0	106	5530	9.68	9.48	9.67	9.20	15.53	≤ 16.56	--	--	Pass
11ac-VHT80	MCS0	122	5610	9.55	9.77	9.79	9.82	15.75	≤ 16.56	--	--	Pass
11ac-VHT80	MCS0	138	5690	9.07	10.28	9.31	9.65	15.62	≤ 16.56	--	--	Pass
11ac-VHT80	MCS0	155	5775	15.55	15.55	16.10	15.61	21.73	≤ 22.58	--	--	Pass
11ac-VHT 80 +80	MCS0	42	5210	12.39	12.01	--	--	15.21	≤ 22.58	--	--	Pass
		58	5290	--	--	12.68	12.08	15.40	≤ 16.56	--	--	Pass
11ac-VHT 80 +80	MCS0	106	5530	9.81	10.12	--	--	15.80	≤ 16.56	--	--	Pass
		122	5610	--	--	9.89	9.26					
11ax-HE20	MCS0	36	5180	10.09	9.79	9.79	9.96	15.93	≤ 22.58	19.19	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	9.61	9.92	9.82	9.73	15.79	≤ 22.58	19.04	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	9.81	9.79	9.34	9.69	15.68	≤ 22.58	18.93	≤ 21.00	Pass
11ax-HE20	MCS0	52	5260	8.88	8.66	7.92	8.02	14.41	≤ 16.56	--	--	Pass
11ax-HE20	MCS0	60	5300	8.97	8.71	8.35	8.52	14.66	≤ 16.56	--	--	Pass
11ax-HE20	MCS0	64	5320	8.27	8.67	8.46	8.06	14.39	≤ 16.56	--	--	Pass
11ax-HE20	MCS0	100	5500	8.54	8.46	8.45	7.68	14.32	≤ 16.56	--	--	Pass

11ax-HE20	MCS0	120	5600	8.00	8.41	7.93	7.79	14.06	≤ 16.56	--	--	Pass
11ax-HE20	MCS0	140	5700	7.60	8.31	8.44	8.21	14.17	≤ 16.56	--	--	Pass
11ax-HE20	MCS0	144	5720	7.90	8.66	8.15	8.08	14.23	≤ 16.56	--	--	Pass
11ax-HE20	MCS0	149	5745	15.83	15.90	15.65	15.76	21.81	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	157	5785	15.93	15.78	15.95	15.49	21.81	≤ 22.58	--	--	Pass
11ax-HE20	MCS0	165	5825	15.81	15.96	16.07	15.85	21.94	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	38	5190	10.11	9.85	9.62	10.13	15.95	≤ 22.58	19.21	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	10.09	9.82	9.71	9.48	15.80	≤ 22.58	19.05	≤ 21.00	Pass
11ax-HE40	MCS0	54	5270	9.79	10.09	9.70	9.86	15.88	≤ 16.56	--	--	Pass
11ax-HE40	MCS0	62	5310	9.86	9.83	9.83	9.56	15.79	≤ 16.56	--	--	Pass
11ax-HE40	MCS0	102	5510	10.15	10.01	9.49	9.34	15.78	≤ 16.56	--	--	Pass
11ax-HE40	MCS0	118	5590	9.00	9.53	9.99	9.54	15.55	≤ 16.56	--	--	Pass
11ax-HE40	MCS0	134	5670	9.56	10.36	9.71	10.07	15.96	≤ 16.56	--	--	Pass
11ax-HE40	MCS0	142	5710	9.23	10.38	9.54	9.44	15.69	≤ 16.56	--	--	Pass
11ax-HE40	MCS0	151	5755	15.70	16.27	16.18	16.02	22.07	≤ 22.58	--	--	Pass
11ax-HE40	MCS0	159	5795	15.87	15.77	16.05	15.75	21.88	≤ 22.58	--	--	Pass
11ax-HE80	MCS0	42	5210	9.80	9.88	9.73	9.49	15.75	≤ 22.58	18.99	≤ 21.00	Pass
11ax-HE80	MCS0	58	5290	9.84	9.64	9.51	9.40	15.62	≤ 16.56	--	--	Pass
11ax-HE80	MCS0	106	5530	9.85	9.51	9.77	9.29	15.63	≤ 16.56	--	--	Pass
11ax-HE80	MCS0	122	5610	9.65	9.83	9.88	9.84	15.82	≤ 16.56	--	--	Pass
11ax-HE80	MCS0	138	5690	9.22	10.30	9.34	9.69	15.68	≤ 16.56	--	--	Pass
11ax-HE80	MCS0	155	5775	15.63	15.68	16.21	15.77	21.85	≤ 22.58	--	--	Pass
11ax-HE80 +80	MCS0	42	5210	12.48	12.18	--	--	15.34	≤ 22.58	--	--	Pass
		58	5290	--	--	12.75	12.08	15.44	≤ 16.56	--	--	Pass
11ax-HE80 +80	MCS0	106	5530	9.93	10.13	--	--	15.88	≤ 16.56	--	--	Pass
		122	5610	--	--	9.94	9.39					

Note 1: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: Max EIRP of 30° Elevation Angle (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} + \text{Ant 0 30° Elevation Angle Gain}) / 10} + 10^{(\text{Ant 1 Average Power} + \text{Ant 1 30° Elevation Angle}) / 10} + 10^{(\text{Ant 2 Average Power} + \text{Ant 2 30° Elevation Angle}) / 10} + 10^{(\text{Ant 3 Average Power} + \text{Ant 3 30° Elevation Angle}) / 10}\}$.

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR2	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1361D Scan Antenna		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11a	6	36	5180	10.68	≤ 26.60	13.56	≤ 21.00	Pass
11a	6	44	5220	10.78	≤ 26.60	13.66	≤ 21.00	Pass
11a	6	48	5240	10.77	≤ 26.60	13.65	≤ 21.00	Pass
11a	6	149	5745	10.60	≤ 26.60	--	--	Pass
11a	6	157	5785	10.44	≤ 26.60	--	--	Pass
11a	6	165	5825	10.50	≤ 26.60	--	--	Pass

Note: Max EIRP of 30° Elevation Angle (dBm) = Average Power (dBm) + Ant 0 30° Elevation Angle Gain (dBi).

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR2	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1362 CDD Mode		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11a	6	36	5180	14.41	13.81	13.61	13.96	19.98	≤ 29.00	19.68	≤ 21.00	Pass
11a	6	44	5220	13.94	13.76	13.56	13.84	19.80	≤ 29.00	19.50	≤ 21.00	Pass
11a	6	48	5240	14.25	13.56	13.62	14.08	19.91	≤ 29.00	19.61	≤ 21.00	Pass
11a	6	52	5260	8.20	8.02	7.25	8.12	13.93	≤ 22.98	--	--	Pass
11a	6	60	5300	8.05	8.04	7.45	8.38	14.01	≤ 22.98	--	--	Pass
11a	6	64	5320	7.29	7.62	7.97	7.98	13.74	≤ 22.98	--	--	Pass
11a	6	100	5500	8.34	7.10	7.38	8.02	13.76	≤ 22.98	--	--	Pass
11a	6	120	5600	7.75	7.38	7.60	7.71	13.63	≤ 22.98	--	--	Pass
11a	6	140	5700	6.59	7.66	7.85	7.69	13.50	≤ 22.98	--	--	Pass
11a	6	144	5720	7.13	8.04	7.63	7.98	13.73	≤ 22.98	--	--	Pass
11a	6	149	5745	21.76	21.85	21.92	22.51	28.04	≤ 29.00	--	--	Pass
11a	6	157	5785	22.02	21.50	21.41	22.29	27.84	≤ 29.00	--	--	Pass
11a	6	165	5825	21.53	21.09	21.04	21.75	27.38	≤ 29.00	--	--	Pass
11n-HT20	MCS0	36	5180	14.24	13.65	13.85	13.46	19.83	≤ 29.00	19.53	≤ 21.00	Pass
11n-HT20	MCS0	44	5220	14.39	13.77	13.36	13.77	19.86	≤ 29.00	19.56	≤ 21.00	Pass
11n-HT20	MCS0	48	5240	14.87	13.94	14.61	14.15	20.43	≤ 29.00	20.13	≤ 21.00	Pass
11n-HT20	MCS0	52	5260	8.11	7.60	7.95	8.07	13.96	≤ 22.98	--	--	Pass
11n-HT20	MCS0	60	5300	8.07	7.93	7.79	8.21	14.02	≤ 22.98	--	--	Pass
11n-HT20	MCS0	64	5320	7.83	8.16	8.57	8.08	14.19	≤ 22.98	--	--	Pass
11n-HT20	MCS0	100	5500	8.69	7.79	7.67	8.48	14.20	≤ 22.98	--	--	Pass
11n-HT20	MCS0	120	5600	7.99	8.00	8.15	8.18	14.10	≤ 22.98	--	--	Pass
11n-HT20	MCS0	140	5700	7.41	8.77	8.11	8.54	14.26	≤ 22.98	--	--	Pass
11n-HT20	MCS0	144	5720	7.52	7.81	8.11	7.88	13.86	≤ 22.98	--	--	Pass
11n-HT20	MCS0	149	5745	21.93	22.04	21.93	22.47	28.12	≤ 29.00	--	--	Pass
11n-HT20	MCS0	157	5785	22.18	21.23	21.54	22.23	27.84	≤ 29.00	--	--	Pass
11n-HT20	MCS0	165	5825	21.41	20.87	21.24	21.63	27.32	≤ 29.00	--	--	Pass

11n-HT40	MCS0	38	5190	15.05	14.62	15.18	14.66	20.90	≤ 29.00	20.60	≤ 21.00	Pass
11n-HT40	MCS0	46	5230	14.77	14.94	15.16	14.98	20.99	≤ 29.00	20.69	≤ 21.00	Pass
11n-HT40	MCS0	54	5270	11.63	11.08	10.73	11.35	17.23	≤ 22.98	--	--	Pass
11n-HT40	MCS0	62	5310	11.43	11.12	11.00	11.21	17.21	≤ 22.98	--	--	Pass
11n-HT40	MCS0	102	5510	11.80	10.74	10.88	11.67	17.32	≤ 22.98	--	--	Pass
11n-HT40	MCS0	118	5590	10.97	10.69	10.76	10.69	16.80	≤ 22.98	--	--	Pass
11n-HT40	MCS0	134	5670	10.03	10.89	10.53	9.96	16.39	≤ 22.98	--	--	Pass
11n-HT40	MCS0	142	5710	10.31	10.23	10.10	10.95	16.43	≤ 22.98	--	--	Pass
11n-HT40	MCS0	151	5755	21.86	21.78	21.69	22.35	27.95	≤ 29.00	--	--	Pass
11n-HT40	MCS0	159	5795	21.90	21.37	21.60	22.31	27.83	≤ 29.00	--	--	Pass
11ac-VHT20	MCS0	36	5180	14.04	13.52	13.83	13.27	19.70	≤ 29.00	19.40	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	14.37	13.66	13.26	13.71	19.79	≤ 29.00	19.49	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	14.80	13.82	14.44	14.06	20.32	≤ 29.00	20.02	≤ 21.00	Pass
11ac-VHT20	MCS0	52	5260	8.07	7.53	7.94	8.04	13.92	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.92	7.77	7.63	8.15	13.89	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	64	5320	7.65	8.01	8.46	8.00	14.06	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	100	5500	8.61	7.75	7.58	8.41	14.13	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	120	5600	7.94	8.00	8.11	8.00	14.03	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	140	5700	7.40	8.76	8.06	8.41	14.21	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.51	7.66	7.91	7.81	13.75	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	149	5745	21.82	21.94	21.73	22.33	27.98	≤ 29.00	--	--	Pass
11ac-VHT20	MCS0	157	5785	22.14	21.19	21.54	22.20	27.81	≤ 29.00	--	--	Pass
11ac-VHT20	MCS0	165	5825	21.24	20.83	21.06	21.46	27.17	≤ 29.00	--	--	Pass
11ac-VHT40	MCS0	38	5190	15.00	14.48	15.16	14.63	20.85	≤ 29.00	20.55	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	14.63	14.88	15.01	14.92	20.88	≤ 29.00	20.58	≤ 21.00	Pass
11ac-VHT40	MCS0	54	5270	11.52	10.98	10.72	11.19	17.13	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	62	5310	11.42	11.08	10.87	11.14	17.15	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	102	5510	11.66	10.72	10.79	11.63	17.24	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	118	5590	10.81	10.54	10.74	10.54	16.68	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	134	5670	9.94	10.88	10.47	9.94	16.35	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	142	5710	10.28	10.18	10.08	10.76	16.35	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	151	5755	21.67	21.61	21.64	22.27	27.83	≤ 29.00	--	--	Pass
11ac-VHT40	MCS0	159	5795	21.81	21.19	21.57	22.17	27.72	≤ 29.00	--	--	Pass
11ac-VHT80	MCS0	42	5210	14.19	13.28	13.52	13.22	19.59	≤ 29.00	19.29	≤ 21.00	Pass
11ac-VHT80	MCS0	58	5290	14.19	13.69	13.37	13.91	19.82	≤ 22.98	--	--	Pass
11ac-VHT80	MCS0	106	5530	14.11	13.50	14.23	14.32	20.07	≤ 22.98	--	--	Pass
11ac-VHT80	MCS0	122	5610	13.87	13.50	13.57	13.96	19.75	≤ 22.98	--	--	Pass

11ac-VHT80	MCS0	138	5690	13.45	14.27	14.34	14.01	20.05	≤ 22.98	--	--	Pass
11ac-VHT80	MCS0	155	5775	21.65	21.38	21.48	22.41	27.77	≤ 29.00	--	--	Pass
11ac-VHT 80 +80	MCS0	42	5210	10.72	10.68	--	--	13.71	≤ 29.00	--	--	Pass
		58	5290	--	--	10.55	10.55	13.56	≤ 22.98	--	--	Pass
11ac-VHT 80 +80	MCS0	106	5530	12.52	11.17	--	--	17.93	≤ 22.98	--	--	Pass
		122	5610	--	--	11.85	11.99					
11ax-HE20	MCS0	36	5180	14.26	13.98	13.91	14.18	20.11	≤ 29.00	19.81	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	14.68	13.99	13.50	14.26	20.15	≤ 29.00	19.85	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	14.66	13.66	14.12	14.35	20.23	≤ 29.00	19.93	≤ 21.00	Pass
11ax-HE20	MCS0	52	5260	8.52	8.14	7.85	8.24	14.21	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	60	5300	8.65	8.18	7.92	8.63	14.38	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	64	5320	8.85	8.25	8.51	8.74	14.61	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	100	5500	9.06	8.01	8.35	9.10	14.68	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	120	5600	8.08	7.76	7.91	7.91	13.94	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	140	5700	7.70	8.51	8.05	8.55	14.24	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	144	5720	7.77	8.23	7.86	8.26	14.06	≤ 22.98	--	--	Pass
11ax-HE20	MCS0	149	5745	22.13	22.11	21.70	22.66	28.18	≤ 29.00	--	--	Pass
11ax-HE20	MCS0	157	5785	22.13	22.00	21.56	22.80	28.17	≤ 29.00	--	--	Pass
11ax-HE20	MCS0	165	5825	21.75	21.16	21.68	21.79	27.62	≤ 29.00	--	--	Pass
11ax-HE40	MCS0	38	5190	15.10	14.99	15.19	14.54	20.98	≤ 29.00	20.68	≤ 21.00	Pass
11ax-HE40	MCS0	46	5230	14.94	14.67	15.12	14.95	20.94	≤ 29.00	20.64	≤ 21.00	Pass
11ax-HE40	MCS0	54	5270	10.93	10.43	10.47	10.59	16.63	≤ 22.98	--	--	Pass
11ax-HE40	MCS0	62	5310	11.37	11.44	11.43	11.66	17.50	≤ 22.98	--	--	Pass
11ax-HE40	MCS0	102	5510	12.26	11.31	11.16	12.21	17.78	≤ 22.98	--	--	Pass
11ax-HE40	MCS0	118	5590	10.97	10.09	10.79	10.88	16.72	≤ 22.98	--	--	Pass
11ax-HE40	MCS0	134	5670	10.24	10.91	10.80	10.22	16.57	≤ 22.98	--	--	Pass
11ax-HE40	MCS0	142	5710	10.94	11.17	11.19	11.48	17.22	≤ 22.98	--	--	Pass
11ax-HE40	MCS0	151	5755	22.22	21.89	22.02	22.72	28.24	≤ 29.00	--	--	Pass
11ax-HE40	MCS0	159	5795	21.99	21.64	22.00	22.07	27.95	≤ 29.00	--	--	Pass
11ax-HE80	MCS0	42	5210	14.22	13.35	13.65	13.42	19.69	≤ 29.00	19.39	≤ 21.00	Pass
11ax-HE80	MCS0	58	5290	14.30	13.75	13.51	13.92	19.90	≤ 22.98	--	--	Pass
11ax-HE80	MCS0	106	5530	14.29	13.53	14.41	14.44	20.20	≤ 22.98	--	--	Pass
11ax-HE80	MCS0	122	5610	13.96	13.64	13.75	14.12	19.89	≤ 22.98	--	--	Pass
11ax-HE80	MCS0	138	5690	13.50	14.42	14.35	14.02	20.11	≤ 22.98	--	--	Pass
11ax-HE80	MCS0	155	5775	21.73	21.55	21.63	22.44	27.87	≤ 29.00	--	--	Pass
11ax-HE80 +80	MCS0	42	5210	10.90	10.79	--	--	13.86	≤ 29.00	--	--	Pass
		58	5290	--	--	10.55	10.57	13.57	≤ 22.98	--	--	Pass



11ax-HE80 +80	MCS0	106	5530	12.55	11.29	--	--	18.01	≤ 22.98	--	--	Pass
		122	5610	--	--	11.95	12.09					

Note 1: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

Note 2: Max EIRP of 30° Elevation Angle (dBm) = $10 \cdot \log\{10^{(\text{Ant 0 Average Power} + \text{Ant 0 30° Elevation Angle Gain}) / 10} + 10^{(\text{Ant 1 Average Power} + \text{Ant 1 30° Elevation Angle}) / 10} + 10^{(\text{Ant 2 Average Power} + \text{Ant 2 30° Elevation Angle}) / 10} + 10^{(\text{Ant 3 Average Power} + \text{Ant 3 30° Elevation Angle}) / 10}\}$.

Product	無線基地台	Temperature	23 ~ 25°C
Test Engineer	Peter Syu	Relative Humidity	46 ~ 54%
Test Site	SR2	Test Date	2020/03/10 ~ 2020/03/20
Model No.	OAW-AP1362 Beamforming Mode		

Test Mode	Data Rate (Mbps)	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Ant 2 Average Power (dBm)	Ant 3 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Max EIRP of 30° Elevation Angle (dBm)	EIRP Limit of 30° Elevation Angle (dBm)	Result
11n-HT20	MCS0	36	5180	13.85	13.95	13.88	13.40	19.80	≤ 22.98	19.50	≤ 21.00	Pass
11n-HT20	MCS0	44	5220	14.00	13.30	13.20	13.80	19.61	≤ 22.98	19.31	≤ 21.00	Pass
11n-HT20	MCS0	48	5240	14.93	13.87	14.56	14.46	20.49	≤ 22.98	20.19	≤ 21.00	Pass
11n-HT20	MCS0	52	5260	8.56	7.63	7.80	7.79	13.98	≤ 16.96	--	--	Pass
11n-HT20	MCS0	60	5300	8.04	7.94	7.42	8.17	13.92	≤ 16.96	--	--	Pass
11n-HT20	MCS0	64	5320	7.91	7.99	8.49	8.19	14.17	≤ 16.96	--	--	Pass
11n-HT20	MCS0	100	5500	8.52	7.74	8.10	8.30	14.20	≤ 16.96	--	--	Pass
11n-HT20	MCS0	120	5600	8.20	7.98	7.75	8.18	14.05	≤ 16.96	--	--	Pass
11n-HT20	MCS0	140	5700	7.41	8.55	8.29	8.45	14.22	≤ 16.96	--	--	Pass
11n-HT20	MCS0	144	5720	7.50	7.58	7.90	8.20	13.82	≤ 16.96	--	--	Pass
11n-HT20	MCS0	149	5745	16.51	16.28	16.63	16.73	22.56	≤ 22.98	--	--	Pass
11n-HT20	MCS0	157	5785	16.43	15.90	16.64	17.00	22.53	≤ 22.98	--	--	Pass
11n-HT20	MCS0	165	5825	16.47	16.07	15.97	16.62	22.31	≤ 22.98	--	--	Pass
11n-HT40	MCS0	38	5190	14.90	15.25	15.10	14.42	20.95	≤ 22.98	20.65	≤ 21.00	Pass
11n-HT40	MCS0	46	5230	15.32	14.57	15.12	15.08	21.05	≤ 22.98	20.75	≤ 21.00	Pass
11n-HT40	MCS0	54	5270	10.64	10.43	10.39	10.18	16.43	≤ 16.96	--	--	Pass
11n-HT40	MCS0	62	5310	10.21	10.24	10.56	10.39	16.37	≤ 16.96	--	--	Pass
11n-HT40	MCS0	102	5510	10.87	10.23	10.59	10.96	16.69	≤ 16.96	--	--	Pass
11n-HT40	MCS0	118	5590	10.56	9.98	10.04	10.15	16.21	≤ 16.96	--	--	Pass
11n-HT40	MCS0	134	5670	10.12	10.88	10.11	9.98	16.31	≤ 16.96	--	--	Pass
11n-HT40	MCS0	142	5710	10.18	10.45	10.25	10.80	16.45	≤ 16.96	--	--	Pass
11n-HT40	MCS0	151	5755	16.56	15.99	15.98	16.96	22.41	≤ 22.98	--	--	Pass
11n-HT40	MCS0	159	5795	16.31	15.81	15.68	16.89	22.22	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	36	5180	13.73	13.90	13.85	13.29	19.72	≤ 22.98	19.42	≤ 21.00	Pass
11ac-VHT20	MCS0	44	5220	13.90	13.26	13.06	13.72	19.52	≤ 22.98	19.22	≤ 21.00	Pass
11ac-VHT20	MCS0	48	5240	14.86	13.76	14.56	14.38	20.43	≤ 22.98	20.13	≤ 21.00	Pass

11ac-VHT20	MCS0	52	5260	8.39	7.45	7.75	7.62	13.84	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	60	5300	7.99	7.90	7.34	8.07	13.85	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	64	5320	7.85	7.95	8.35	8.00	14.06	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	100	5500	8.48	7.73	7.97	8.30	14.15	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	120	5600	8.16	7.84	7.75	8.02	13.97	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	140	5700	7.32	8.36	8.14	8.40	14.10	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	144	5720	7.31	7.52	7.75	8.05	13.69	≤ 16.96	--	--	Pass
11ac-VHT20	MCS0	149	5745	16.42	16.13	16.62	16.61	22.47	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	157	5785	16.34	15.71	16.46	16.87	22.39	≤ 22.98	--	--	Pass
11ac-VHT20	MCS0	165	5825	16.29	16.00	15.79	16.52	22.18	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	38	5190	14.74	15.05	14.91	14.32	20.78	≤ 22.98	20.48	≤ 21.00	Pass
11ac-VHT40	MCS0	46	5230	15.20	14.41	14.97	14.94	20.91	≤ 22.98	20.61	≤ 21.00	Pass
11ac-VHT40	MCS0	54	5270	10.58	10.43	10.24	10.12	16.37	≤ 16.96	--	--	Pass
11ac-VHT40	MCS0	62	5310	10.09	10.23	10.41	10.34	16.29	≤ 16.96	--	--	Pass
11ac-VHT40	MCS0	102	5510	10.77	10.13	10.46	10.93	16.60	≤ 16.96	--	--	Pass
11ac-VHT40	MCS0	118	5590	10.47	9.91	9.91	9.99	16.10	≤ 16.96	--	--	Pass
11ac-VHT40	MCS0	134	5670	10.02	10.71	9.92	9.92	16.18	≤ 16.96	--	--	Pass
11ac-VHT40	MCS0	142	5710	10.03	10.40	10.11	10.61	16.31	≤ 16.96	--	--	Pass
11ac-VHT40	MCS0	151	5755	16.48	15.82	15.80	16.79	22.26	≤ 22.98	--	--	Pass
11ac-VHT40	MCS0	159	5795	16.17	15.67	15.66	16.73	22.10	≤ 22.98	--	--	Pass
11ac-VHT80	MCS0	42	5210	14.63	14.26	14.44	14.66	20.52	≤ 22.98	20.22	≤ 21.00	Pass
11ac-VHT80	MCS0	58	5290	10.70	10.48	9.96	10.18	16.36	≤ 16.96	--	--	Pass
11ac-VHT80	MCS0	106	5530	10.62	9.75	9.55	9.91	16.00	≤ 16.96	--	--	Pass
11ac-VHT80	MCS0	122	5610	10.13	9.72	9.97	10.17	16.02	≤ 16.96	--	--	Pass
11ac-VHT80	MCS0	138	5690	9.79	10.67	10.52	10.39	16.38	≤ 16.96	--	--	Pass
11ac-VHT80	MCS0	155	5775	16.53	15.89	16.09	16.51	22.28	≤ 22.98	--	--	Pass
11ac-VHT 80 +80	MCS0	42	5210	10.10	9.98	--	--	13.05	≤ 22.98	--	--	Pass
		58	5290	--	--	10.42	10.43	13.44	≤ 16.96	--	--	Pass
11ac-VHT 80 +80	MCS0	106	5530	10.37	9.70	--	--	16.01	≤ 16.96	--	--	Pass
		122	5610	--	--	10.04	9.82					
11ax-HE20	MCS0	36	5180	14.49	14.41	14.14	13.78	20.23	≤ 22.98	19.93	≤ 21.00	Pass
11ax-HE20	MCS0	44	5220	14.45	13.89	13.95	14.21	20.15	≤ 22.98	19.85	≤ 21.00	Pass
11ax-HE20	MCS0	48	5240	14.58	13.87	14.08	14.19	20.21	≤ 22.98	19.91	≤ 21.00	Pass
11ax-HE20	MCS0	52	5260	8.41	7.92	7.72	8.40	14.14	≤ 16.96	--	--	Pass
11ax-HE20	MCS0	60	5300	8.53	8.21	7.91	8.84	14.41	≤ 16.96	--	--	Pass
11ax-HE20	MCS0	64	5320	8.76	8.21	8.55	8.73	14.59	≤ 16.96	--	--	Pass
11ax-HE20	MCS0	100	5500	8.87	7.76	8.35	9.00	14.54	≤ 16.96	--	--	Pass