



香港商立德國際商品試驗有限公司桃園分公司

Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

## Referencing Test Data

### Table of Contents

1. Original General Descriptions of EUT .....	2
2. Form Factor and Photos .....	2
3. Main board PCB Photos .....	3
4. PSU PCB Photos .....	4
5. Referencing test items .....	5
6. Spot- Check Test Plan .....	6
7. Acceptance criteria for spot check .....	7



**1. Original General Descriptions of EUT**

Equipment		Referenced Device	Model Variant Device
FCC ID		YAW529027	YAW529027-Z
FCC Granted Date		Original: 01/25/2019, C2PC: 01/19/2022	NA
Test Model		PVS6	PVS6
RF characteristics		2TX WLAN 2.4GHz 2412 - 2462 MHz	2TX WLAN 2.4GHz 2412 – 2462 MHz
		2TX WLAN 5GHz 5180 - 5240 MHz 5745 - 5825 MHz	2TX WLAN 5GHz 5180 - 5240 MHz 5745 - 5825 MHz
		1Tx BT-EDR 2402 - 2480MHz 1Tx BT-LE 2402 - 2480MHz 1Tx Zigbee 2405 – 2480MHz	1Tx BT-EDR 2402 - 2480MHz 1Tx BT-LE 2402 - 2480MHz
Hardware	Difference	1. With Zigbee component	1. W/O Zigbee component
	Identical	Identical internal printed circuit board layouts	
		Have a common design and components except Zigbee component WLAN 2.4GHz & 5GHz & BT CHIP : AP6398S	

**Variant spot-check test results are within the tune-up tolerance range specified and are compliant with applicable rule part(s).**

**2. Form Factor and Photos**

base on FCC KDB guidance 484596 Rules ,  
The printed circuit board layouts the same ; RF technologies the same (WiFi 2.4G & WiFi 5G & BT)  
Difference : Remove Zigbee component



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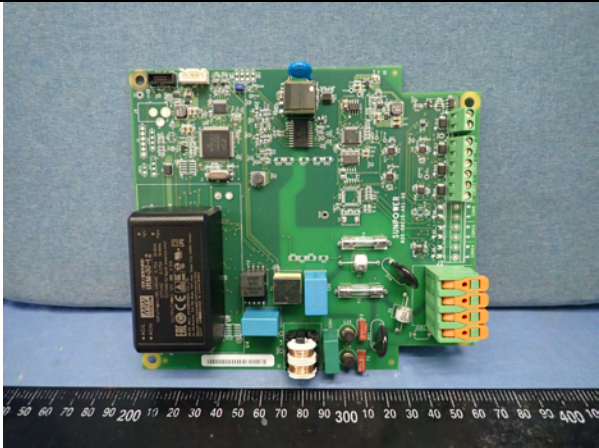
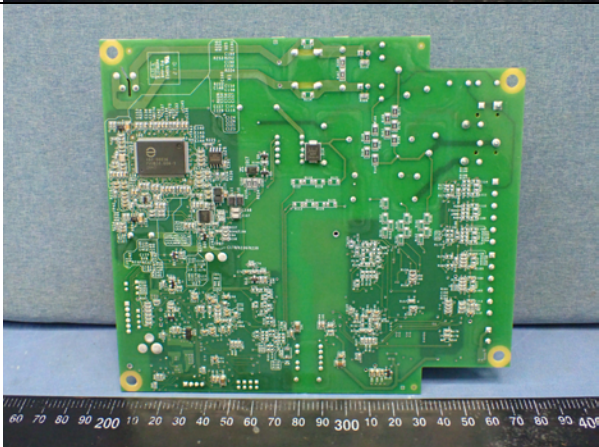
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### 3. Main board PCB Photos

Referenced Device	Model variant
FCC ID: YAW529027	FCC ID: <b>YAW529027-Z</b>

#### 4. PSU PCB Photos

Referenced Device	Model variant
FCC ID: YAW529027	FCC ID: <b>YAW529027-Z</b>
	all is the same with original.
	



## 5. Referencing test items

### Part 15C

FCC Clause	Test Items	Referenced Test Data	Note
15.247 (a)(1) / (b)	Conducted Output Power	Y	
15.207	AC Power Line Conducted Emission	N	
15.247(a)(1) (iii)	Number of Hopping Frequency Used and Dwell Time on Each Channel	Y	
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Y	
15.205/ 15.209/ 15.247(d)	Radiated Emissions and Band Edge Measurement	Y	
15.247(d)	Antenna Port Emission	Y	
15.247(a)(2)	6dB bandwidth	Y	
15.247(e)	Power Density	Y	

### Part 15E

FCC Clause	Test Items	Referenced Test Data	Note
15.407(a)(1/2/3)	Conducted Output Power	Y	
15.207	AC Power Line Conducted Emission	N	
15.407(b) (1/2/3/4 (i/ii))	Radiated Emissions and Band Edge Measurement	Y	
15.407(a)(1/2/3)	26dBc bandwidth	Y	
-	99% Occupied bandwidth	Y	
15.407(e)	6dB bandwidth	Y	
15.407(a)(1/2/3)	Power Density	Y	
15.407(g)	Frequency Stability	Y	

**Variant spot-check test results are within the tune-up tolerance range specified and are compliant with applicable rule part(s).**





### 6. Spot- Check Test Plan

Amount of test samples: 1 sample

Equipment Class	Rule Part	Test Items	Frequency Band	Test Modes	Test Channel
DTS	Part 15C	Conducted output power	2412-2462 MHz	802.11 b/g/n	Low/ Mid/ High
		Radiated emission - Band edge and Harmonics (Above 1GHz)		One channel with maximum power among 802.11 b/g/n	One channel with maximum power
		Radiated emission (Below 1GHz)			
		AC Power Line Conducted Emission			
DTS	Part 15C	Conducted output power	2402-2480 MHz	BT-LE	Low/ Mid/ High
		Radiated emission - Band edge and Harmonics (Above 1GHz)		One channel with maximum power among BT-LE GFSK	One channel with maximum power
		Radiated emission (Below 1GHz)			
		AC Power Line Conducted Emission			
DSS	Part 15C	Conducted output power	2402-2480 MHz	BT-EDR	Low/ Mid/ High
		Radiated emission - Band edge and Harmonics (Above 1GHz)		All Channel retest (See Note 2)	Low/ Mid/ High
		Radiated emission (Below 1GHz)		One channel with maximum power among BT-EDR	One channel with maximum power
		AC Power Line Conducted Emission			
NII	Part 15E	Conducted output power	5180-5240MHz, 5745-5825MHz	802.11 a/n/ac	Low/ Mid/ High for each sub band
		Radiated emission - Band edge and Harmonics (Above 1GHz)		One channel with maximum power among 802.11 a/n/ac	One channel with maximum power
		Radiated emission (Below 1GHz)			
		AC Power Line Conducted Emission			



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Note: RF Conducted output power were confirmed and the same as Referenced Device (FCC ID: YAW529027)

Note2 : The standard has changed the test above 1G, so the data above BT-EDR is updated

**Variant spot-check test results are within the tune-up tolerance range specified and are compliant with applicable rule part(s).**

Original Report Test Data:

Please find attached the PDF File:

[YAW529027 \(Referenced Device\) original Data.PDF](#)

### 7. Acceptance criteria for spot check

Test Items	Frequency	Deviation Tolerance	Acceptance criteria
Conducted Output power	All operating band	-0.5 dB	The test result compare to the test result of Referenced device must be within Deviation Tolerance and must be lower than limitation for each operating band.
Spurious Emission up to 1GHz (Below 1GHz)	30MHz~1000MHz	+/- 3.0 dB	The worst value of test result for variant device compare to the test result of Referenced device must be within Deviation Tolerance and must be lower than limitation.
Spurious Emission above 1GHz	1GHz~40GHz	+/- 3.0 dB	The worst value of test result for variant device compare to the test result of Referenced device must be within Deviation Tolerance and must be lower than limitation.

**Variant spot-check test results are within the tune-up tolerance range specified and are compliant with applicable rule part(s).**