6VL Check List

FCC ID: 2AOH407WITTR

1. Contention Based Protocol (CBP)

1.1 CBP testing shall be performed on one channel in each U-NII sub-band of operation for both the narrowest and widest bandwidths.

10/17 Reply: "TR_STS2406116W12_RF_Appendix 6G WIFI"报告中有按照最窄和最宽带宽测试

The report "TR-STS2406116W12RF.Appendix 6G WIFI" includes testing based on the narrowest and widest bandwidth

1.2 When testing a 160 MHz channel or wider, use three separate 10 MHz AWGN signals. The simulated incumbent signal must also be a 10 MHz wide AWGN signal.

10/17 Reply: 此产品不支持160M带宽

This product does not support 160M bandwidth

1.3 Report lowest AWGN signal detectable by EUT.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第48页已由EUT检测最低电平

The lowest level detected by EUT has been reported on page 48 of the report 'TR-ST12406116W12RF.Part 15.407_6GWIFI6E'

1.4 Verify that the testing was performed with the AWGN signal set to the lowest level (for example, -100 dBm) and increased until the EUT detects and stops transmitting.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第48页已应用最低电平进行测试

The lowest voltage level has been applied for testing on page 48 of the report 'TR-ST12406116W12RF.Part 15.407_6GWIFI6E'

1.5 Verify that the lowest antenna gain was used for testing.

10/17 Reply: "TR_STS2406116W12_RF_Appendix 6G WIFI"报告中有按照最窄和最宽带宽测试

The report "TR-STS2406116W12RF.Appendix 6G WIFI" includes testing based on the minimum antenna gain.

1.6 If conducted measurements are used, the detection threshold needs to be corrected to refer to a 0 dBi gain antenna and include all the applicable losses (cables, etc.). For instance, the report should show (at least):

Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB)

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第48页已有对应描述

The corresponding description is already available on page 48 of the report "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"

1.7 Include plots showing EUT has stopped transmitting upon detection of AWGN signal.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第48页已有对应描述

The corresponding description is already available on page 48 of the report "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"

1.8 Describe whether channel puncturing and bandwidth reduction mechanisms are supported. The report needs to include a plot as an example for at least one of the AWGN signals used.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第48页已有对应描述

The corresponding description is already available on page 48 of the report "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"

1.9 Plots for one representative U-NII sub-band must be included if the device uses bandwidth reduction.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第48页测试使用的UNII Band 5

The UNII Band 5 used for testing on page 48 of the report "TR-ST12406116W12RF.Part 15.407_6GWIFI6E"

1.10 If radiated testing is used, show that spot checks were done to identify which side of the EUT has the lowest sensitivity to the incumbent signal detection and that side was indeed chosen for the test.

10/17 Reply: 仅需要测试传导，未做辐射测试

Only conduction testing is required, no radiation testing has been conducted

2. Puncturing

2.1 Describe the puncturing process, such as reasons for puncturing and what bandwidths may be punctured.

10/17 Reply: 此产品不支持puncturing process

This product does not support punching process

2.2 Provide data and results as required in KDB 987594 D02

10/17 Reply: 此产品不支持puncturing process

This product does not support punching process

3. Dual Client Test, Demonstration of Proper Power Adjustment based on Associated AP

3.1 The device must demonstrate that it can adjust its power based on whether it is associated with an LPI Access Point or an SP Access Point.

10/17 Reply: 不适用

Not Applicable

3.2 The test report should clearly show the test setup used and identify each component.

10/17 Reply: 不适用

Not Applicable

4. Proper Power Adjustment, Client Devices Connected to a Standard Power AP (APC)

4.1 The device must demonstrate that it can limit its power to 6dB or greater below its associated SP Access Points authorized transmit power.

10/17 Reply: 不适用

Not Applicable

4.2 The test report should clearly show the test setup used and identify each component.

10/17 Reply: 不适用

Not Applicable

5. Transmit Power Control (TPC) for VLP

5.1 The device must demonstrate that it can dynamically change power.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第41页已有对应描述

The corresponding description is already available on page 41 of the report "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"

5.2 The test report should clearly show the test setup used and identify each component.

10/17 Reply: "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"报告第40页已有对应描述

The corresponding description is already available on page 40 of the report "TR_STS2406116W12_RF_Part 15.407_6G_WIFI6E"

5.3 Provide details on how the TPC mechanism is triggered, such as environmental factors, performance, air interface, etc. This information shall be provided in the operational description.

10/17 Reply: 当前系统的发射功率，随着 mcs 的不同而改变，所 mcs 越大时功率越低，反之功率越大。mcs 为系统根据通信的信号质量不同来自动调整，当通信信号良好的时候，系统会使用更大的 mcs 来通信，反之则减低 mcs。我们使用 802.11ax 协议。

802.11ax@HE_SU 80M MCS0 18.5dBm +-2db

802.11ax@HE_SU 8OM MCS11 12.5dBm +-2db

The transmission power of the current system varies with different MCSs. The larger the MCSs, the lower the power, and vice versa. MCS is automatically adjusted by the system based on the quality of the communication signal. When the communication signal is good, the system will use a larger MCS for communication, otherwise the MCS will be reduced.

We use the 802.11ax protocol.

802.11ax@HE_SU   80M MCS0 18.5dBm +-2db

802.11ax@HE_SU   8OM MCS11 12.5dBm +-2db

6. Channel Prioritization above 6105 MHz for VLP

6.1 Provide details on how this is accomplished in the operational description.

10/17 Reply:本产品在使用6E过程中，会优先使用6105MHz以上的频点。系统在开机的时候会检测环境中的 wifi 信道使用情况之后再设置自身的工作频点，在这个过程中会优先使用6105MHz以上的频点，当发现6105MHz以上的频点有以下情况：受到当地法规限制，信号不好，信道拥挤，同时使用的设备较多，等

不利于系统工作的情况时，会尝试使用6105MHz以下的频点来工作。

During the use of 6E, this product will prioritize frequencies above 6105MHz. When the system is turned on, it will detect the usage of WiFi channels in the environment before setting its own working frequency. During this process, it will prioritize using frequencies above 6105MHz. When it is found that frequencies above 6105MHz have the following conditions: due to local regulations, poor signal, crowded channels, and the use of many devices, etc., which are not conducive to the system's operation, it will try to use frequencies below 6105MHz for operation.