

UN6GHZ PRE-APPROVAL GUIDANCE CHECKLIST

FCC ID: SBVRM044 (TCB ref AN23T0133)

PAG KDB: **486033**

U-NII devices authorized in U-NII bands 5.925-7.125 GHz (WiFi 6E), PAG ITEM UN6GHZ, <u>Equipment Code 6XD</u>	
This is a mobile client device requesting approval under equipment code 6XD for indoor operations.	
Attestation Letter	Refer to the attestation letter 20 S44 Attestation Letter for Low Power Indoor Client Devices 6XD -FCC 4-15-2023 for the grantee attestations as required by KDB 987594 for 6XD device.
Label	This is a client-only device, Indoor Use Only warning is not required
Internal Photos Test report	<p>Antenna Gain information</p> <p>The antenna is shown on pages 6-8, 11-14, and 17 of the internal photos exhibit 9-2 S44 Internal Photo of product rev1</p> <p>Antenna gain information is based on antenna manufacturer / host system manufacturer test report for antenna installed in the device.</p> <p>Gain information can be found in the Test Report exhibit 15 S44 Antenna Test Report 4-27-2023. The Part 15 test report uses the appropriate values from the antenna exhibit.</p>
Test Report	<p>Test report exhibits:</p> <p>14516849-E7V3 FCCISED Report UNII WLAN 6E_non-ax Parts 1 and 2</p> <p>14516849-E8V3 FCCISED Report UNII WLAN 6E_ax Parts 1-8</p> <ul style="list-style-type: none"> • PSD meets 15.407(a)(8) – Section 9.4 (pages 38-46) for non-ax report and Section 9.4 (pages 77-146) for ax report. PSD and power are measured via the radiated method (converting power/field strength at 3m to an EIRP value), NOT by measuring conducted power and adding antenna gain. • Mask based on Full RU for 802.11ax / OFDMA. Partial RU also tested. Top of mask adjusted to top of signal – sections 9.5.1-9.5.12 (pages 147-186) for ax report and sections 9.5.1-9.5.4 (pages 47-52) for non-ax report. • RBW used for mask was 1 MHz. This is acceptable as it is >= required measurement bandwidth; • Width of mask based on 99% bandwidth. This is acceptable as it is <= 26dB bandwidth; • 99% bandwidth contained within the allocated band for indoor operations section 9.3 (pages 29-37) for non-ax report and section 9.3 (pages 53-76) for ax report; • Spurious emissions: <ul style="list-style-type: none"> ○ Correct antenna height range used per ANSI C63.10 - Section 10 (page 53) for non-ax report; Section 10 (page 187) for ax report. ○ Tested in desktop orientations consistent with intended installation/use (The EUT can only be set up in desktop orientation - page 16 (for non-ax report) and page 25 (ax report) and test set up photos 14516849-E7V3 FCCISED Setup Photos UNII WLAN 6E_non-ax and 14516849-E8V3 FCCISED Setup Photos UNII WLAN 6E_ax • The power output and density were measured by the radiated method instead of conducted measurements.
Test Report	<p>CBP - Test report exhibit 14516849-E10V3 FCCISED REPORT CBP</p> <ul style="list-style-type: none"> • Performed on one channel in each sub-band of operation for both narrowest (20MHz) and widest (80 MHz) bandwidths

	<ul style="list-style-type: none"> • 10 MHz wide AWGN signal is used - page 16 <ul style="list-style-type: none"> ○ 80MHz channel tested with three different AWGN signals at lower, upper, and center of channel – see pages 26-39, 49-62, 72-85,95-109. ○ 20MHz performed at center of channel only – see pages 17-25, 40-48, 63-71, 86-94. • Detection threshold adjusted to consider lowest gain antenna - page 16 <ul style="list-style-type: none"> ○ MIMO device – detection threshold is evaluated based on lowest gain antenna value for all chains (see page 16, section 8.1 for minimum gain per subband) ○ Report includes calculation showing the Required Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB) on page 16 • Lowest detection level is reported for each test – see tables on pages 23, 37, 46, 60, 69, 83, 92, and 107 <ul style="list-style-type: none"> ○ Level at which some detection occurs and point at which no detection occurs are to be provided. Lab followed the D02 procedure but was not aware of the D03 question 16 modification. Margins are very high (detection levels << -62dBm + Gain, worst case margin is -0.91 dBm (page 60). • Test is performed by starting at a level much lower than the required detection level and then increased - page 16 declares the KDB procedure was followed. • Plots showing the device stopped transmitting - pages 22, 34-36, 45, 57-59, 68, 80-82, 91, and 104-106 • Channel puncturing/bandwidth reduction: Not supported
Attestation Letter	<p>Client Device</p> <p>Refer to the attestation letter 20 S44 Attestation Letter for Low Power Indoor Client Devices 6XD -FCC 4-15-2023 for the grantee attestations as required by KDB 987594 D01 section including:</p> <ul style="list-style-type: none"> • confirming that the device will not connect directly to other clients and does not have its own direct internet connection; • device can only operate under the control of a low-power indoor access point or subordinate AP in all bands
RF Exposure exhibit	<p>RF Exposure – exhibit 14516849-E12V3 FCC Report RF Exposure</p> <p>Classification is mobile. This is consistent with the intended use.</p> <p>Simultaneous transmissions with other co-located transmitters is addressed on page 9, total exposure ratio remains < 1.0.</p>
Operational Description	<p>Operational Description Exhibit 6 KDB 594280 D02 v01r03 U-NII Device SW Security Statement for S44 4-15-2023 contains the 15.407(i) security information.</p>