

U-NII devices authorized in U-NII bands 5.925-7.125 GHz (Wi-Fi 6E), PAG ITEM UN6GHZ, Equipment Code 6CD / Revision 1	
This is a portable client device requesting approval under equipment code 6CD for indoor and outdoor operations.	
Label	This is a client-only device, Indoor Use Only warning is not required
Internal Photos and/or External Photos Test report	Antenna Gain information The antennas are shown in the internal photos exhibit. More detailed information on the locations is in operational description exhibit A3LSMS918B Ant Distance_221110 Antenna gain information is based on the grantee's test report for antenna installed in the device. Gain information can be found in the Test report exhibit <i>A3LSMS918B_DM3 WiFi-BT Antenna gain_221107</i> . The Part 15 test report uses the appropriate values from the antenna exhibit.
Test Report	Test report exhibit <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part1</i> through <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part6</i> <ul style="list-style-type: none">• PSD meets 15.407(b)(6) - <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part1</i> page 33 (802.11a) and pages 40 -41, 48-49, 55-56, 62-63 (802.11ax) table shows measured conducted PSD per chain, total PSD and then adds the antenna gain to determine the eirp. PSD is measured for the smallest RU allocations and full SU. Intermediate RU allocations are lower PSD than the smallest RU for all bandwidths (refer to power data for all the various RUs showing increase in power for wider RUs is consistent with lower PSD). Measurements made at LPI power level in all bands and then repeated in UNII 5 and 7 at the standard power setting – note the high channel for the standard power measurements is fully contained within the UNII 5 and UNII 7 band, for LPI power measurements the UNII-7 high channel straddles UNII 7/8 bands.• Mask based on Full RU for 802.11ax / OFDMA. Partial RU also tested. Section 10.2 of report <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part1</i> with plots continuing into <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part2</i>. Top of mask adjusted to top of signal -as shown in all plots. 802.11ax data starts on page 3 of <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part2</i> and plots show partial RU and SU.• RBW used for mask was >= required measurement bandwidth (bandwidth used for 26dB bandwidth measurement);• Width of mask based on <= 26dB bandwidth;• 99% bandwidth contained within the allocated band for indoor operations <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part1</i> page 28 onwards shows the 99% bandwidth < nominal channel bandwidth and therefore contained within the UNII 5 – 8 bands;• 99% bandwidth contained within the allocated band for outdoor operations <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part1</i> page 28 onwards shows the 99% bandwidth for the outdoor < nominal channel bandwidth and therefore contained within the UNII 5 and UNII 7 bands (channels are fully contained within the sub-band);• Spurious emissions are in <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part6</i>:<ul style="list-style-type: none">○ Section 11 for 1 – 40GHz, Section 12 (page 20) for 30 – 1000 MHz<ul style="list-style-type: none">▪ Notes on page 7 and 10 explain that emissions below 30MHz and above 18GHz are more than 20dB below the limit therefore no plots//tabular data for those frequency ranges○ Correct antenna height range used per ANSI C63.10 - page 7 “test procedure” section○ Tested in X/Y/Z orientations consistent with intended installation / use - page 13 of part 1 of the report states worst case was Z orientation, and test set up photos exhibit <i>Test Setup photos-DCD_DXX_DSS_DTS_NII_6CD_UWB_V4</i> pages 12-13 clearly identify the three orientations tested.• MIMO devices – the antenna gain calculations to determine aggregate gain are in <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part1</i> section 5.2 (page 12). The report includes the formula used and a sample calculation.
Test Report	CBP - test report exhibit <i>4790541052-E7V4 FCC Report UNII[6E] WLAN_Part6</i> <ul style="list-style-type: none">• Performed on one channel in each sub-band of operation for both narrowest and widest bandwidths - section 14.2.3 on page 28 shows testing performed on 160MHz and 20 MHz bandwidths• 10 MHz wide AWGN signal is used - page 27 (plot of signal in section 14.2.1)<ul style="list-style-type: none">○ 160MHz channel tested with three different AWGN signals at lower, upper and center of channel – section 14.2.3 on page 28 shows incumbent signal applied at 3 different frequencies• Detection threshold adjusted to consider lowest gain antenna – values of gain in the table on page 28 are lowest within each UNII band.<ul style="list-style-type: none">○ MIMO device – detection threshold is evaluated based on lowest gain antenna value for all chains○ Report includes calculation showing the Required Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB) on page 28 (beneath table)• Lowest detection level is reported for each test – see table on page 29 showing minimum detection level and level at which detection rates are 0% and 50%.• Test is performed by starting at a level much lower than required detection level and then increased - page 25 step 5 and 6.• Plots showing device stopped transmitting - page 27 section 14.2.2 shows the plot for ten trials with EUT clearly not transmitting when the incumbent is applied.• Channel puncturing / bandwidth reduction: Not supported
Attestation Letter	Client Device Refer to attestation letters A3LSMS918B 6CD FCC Attestation Letter_221110 for the grantee attestations including: <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 and subordinate in all bands• only operating at standard power levels when connected to an outdoor AP. User manual statements regarding limitations for use in vehicles and aircrafts are not applicable as this is a client device, not an AP or subordinate AP. Limitations for operations as a dual client regarding output power settings when connected to a standard AP versus an indoor AP / subordinate device are further explained in A3LSMS918B_WiFi6e_Power adjustment letter
External Photos	Client device – enclosure form factor and labeling requirements do not apply.
RF Exposure exhibit	RF Exposure - Classification is portable and rf exposure is addressed via PAG code OVER6G and simultaneous transmission conditions are addressed in section 12.2 of the SAR report <i>4790541052-S1V2 FCC Report SAR_part1</i> using the SAR values for the 6GHz bands to determine the TER.
SDR / Software Description	Exhibit <i>A3LSMS918B_U-NII Device SW Security Statement_221020</i> contains the 15.407(i) security information.