

OTHER (EMC / HAC / Software)					
PAG Item Description	PAG List Item	Equipment Code(s)	TC Number(s)	Exhibit Category	Additional details
<p>U-NII devices authorized in- U-NII-4 band 5.850-5.895 GHz and channels that span U-NII-3 and U-NII-4 Bands under Part 15 Subpart E.</p> <p>This is a portable client device requesting approval under equipment code 6XD for indoor operations.</p>	UN5GHZ	NII		Test Report	<p>EIRP was determined based on a conducted power measurement to which antenna gain was added. Channels straddling the UNII-3 / UNII-4 bands were evaluated against both UNII-3 conducted power and UNII-4 EIRP limits.</p> <ul style="list-style-type: none"> 802.11ax report: SM-S911BDS [UNII] 802.11ax Test Report_R3, page 9. The eirp is calculated for MIMO modes (which is the sum of the powers for the individual chains) starting in section 10.4.3 on page 72 and for each table it lists the conducted power and the EIRP power for UNII 4. All other OFDM modes: SM-S911BDS [UNII] Test Report_R3 part1, page 9 lists the maximum EIRP which is calculated for the highest total conducted power for each mode / bandwidth. The tables starting on page 61 list the conducted power (as antenna gain < 0dBi they just indicate that measured conducted power meets the limit and leave the EIRP calculation on page 9). <p>PSD for channels fully or partially contained in the UNII-4 band was determined based on a conducted power measurement to which the antenna gain was added. For channels straddling the UNII-3 / UNII-4 bands the highest PSD across the entire channel was compared to the limit.</p> <ul style="list-style-type: none"> 802.11ax report: SM-S911BDS [UNII] 802.11ax Test Report_R3 has PSD conducted measurement data for the individual antennas for different RU allocations starting on page 79. EIRP values are calculated for MIMO modes (sum of power for the individual antennas plus effective antenna gain) starting on page 92. All other OFDM modes: SM-S911BDS [UNII] Test Report_R3 part1, results start on page 78 for 802.11a SISO mode, page 82-83 for antenna 1 802.11a/n/ac for MIMO ANT 1, pages 87-88 for MIMO Ant 2 and then pages 92 – 93 provide the total PSD (conducted power plus effective MIMO antenna gain) for MIO Ant 1 + Ant 2. <p>Antenna gain values are provided The antennas are shown on page 2 of the internal photos exhibit. Antenna gain information is based on the antenna manufacturer test report A3LSMS911B_Part 15 antenna specification_1103_R1. The Part 15 test reports use the appropriate values for peak gain (from pages 3, 4 of antenna report).</p> <p>MIMO antenna gain calculations are provided in all reports:</p> <ul style="list-style-type: none"> 802.11ax report: SM-S911BDS [UNII] 802.11ax Test Report_R3, page 7 All other OFDM modes: SM-S911BDS [UNII] Test Report_R3 part1, page 7
				Attestation Letter	Refer to attestation letter A3LSMS911B_UNII-4 Attestation letter for the grantee attestations as required by KDB 291704 .
				Grant conditions	The grant conditions will confirm that the listed powers are conducted for UNII 1, 2A, 2C and 3 and EIRP for UNII-4. We will use the grant note EP for those line entries.
				Label and User Manual	As this device is a client device the “Indoor Only” statements in the manual and on the product label are not required.

U-NII devices authorized in U-NII bands 5.925-7.125 GHz (Wi-Fi 6E), PAG ITEM UN6GHZ, Equipment Code 6CD, This is a portable client device requesting approval under equipment code 6CD for dual client operations.	
Attestation Letter	Refer to attestation letter A3LSMS911B_WiFi6e Attestation letter_R for the grantee attestations.
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 on page 2 of the internal photos exhibit. Antenna gain information is based on the antenna manufacturer test report A3LSMS911B_Part 15 antenna specification_1103_R1 . The Part 15 test report uses the appropriate values for peak gain (from pages 3, 4 of antenna report).
Test Report	Test report exhibits: Test Report-SM-S911BDS [UNII 6e] Test Report_R2, Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part1, Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part2 <ul style="list-style-type: none"> PSD meets 15.407(b)(6) – tests against limits for indoor client in section 10.4 (page 143 of report, page 143 of exhibit Test Report-SM-S911BDS [UNII 6e] Test Report_R2) and for outdoor client in section 10.5 (page 149 of report, page 149 of exhibit Test Report-SM-S911BDS [UNII 6e] Test Report_R2). Test plots start on page 49 of Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part1 and the directional gain calculation for MIMO is detailed on the same page. Mask based on Full RU for 802.11ax / OFDMA. Partial RU also tested. Top of mask adjusted to top of signal – plots start on page 28 of Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part1 for full RU for bandwidths 20MHz – 80 MHz. Partial RU plots for 160MHz channel start on page 36, full RU on page 40. <ul style="list-style-type: none"> RBW used for mask was set to the bandwidth used to measure the 26dB bandwidth (200kHz for 20MHz channels up to 1.6 MHz for 160 MHz channels as required). Width of mask based on the 26dB bandwidth; 99% bandwidth contained within the allocated band – refer to page 7 onwards of Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part1; tabular data for all channels at indoor power levels starts on page 37 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 for 26dB measurements, page 53 for 99% measurements. Outdoor power settings documented started on page 69 (26dB) and 81 (99%) Spurious emissions results stat on page 160 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 <ul style="list-style-type: none"> Correct antenna height range used per ANSI C63.10 – described on page 12 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 Tested in X/Y/Z orientations consistent with intended installation / use (page 12 includes the statement that the device was rotated through three orthogonal axes) and also test set up photos exhibit. MIMO devices – the antenna gain calculations to determine aggregate gain are on page 7 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 and repeated on page 49 of Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part1 The report includes the formula used and a sample calculation (on page 7).
Test Report	CBP - test report exhibit Test Report-SM-S911BDS [UNII 6e] Test Report_R2 , plots are in Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part2 <ul style="list-style-type: none"> Performed on one channel in each sub-band of operation for both narrowest and widest bandwidths - tables in Test Report-SM-S911BDS [UNII 6e] Test Report_R2, pages 156 – 159 show test data for narrowest (20 MHz) and widest (160 MHz) channel bandwidths 10 MHz wide AWGN signal is used - page 65 of Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part2 <ul style="list-style-type: none"> 160MHz channel tested with three different AWGN signals at lower, upper and center of channel – table in Test Report-SM-S911BDS [UNII 6e] Test Report_R2, page 158 shows three different frequencies for incumbent signal for each 160 MHz channel tested Detection threshold adjusted to consider lowest gain antenna <ul style="list-style-type: none"> MIMO device – detection threshold is evaluated based on lowest gain antenna value for all chains – used gain values for Report includes calculation showing the Required Detection Level = Injected AWGN Power (dBm) – Antenna Gain (dBi) + Path Loss (dB): On page 158 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 the results table includes injected level at EUT input, EUT antenna gain and adjusted injected power level (=measured level at antenna port + antenna gain) and compares that to the required detection level of -62dBm. Lowest detection level is reported for each test – see tables on pages 156 and 157 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 documenting the minimum detection level, point at which some detection occurs and point at which no detection occurs. Test is performed by starting at a level much lower than required detection level and then increased – Note 1 on pages 156 - 158 of Test Report-SM-S911BDS [UNII 6e] Test Report_R2 Plots showing device stopped transmitting - pages 65 – 68 of the appendix to the report (pages 11-14 of the Test Report-SM-S911BDS [UNII 6e] Plot Annex B_R1_part2) <ul style="list-style-type: none"> Channel puncturing / bandwidth reduction: Not supported
Attestation Letter	Client Device Refer to attestation letter A3LSMS911B_WiFi6e Attestation letter_R for the grantee attestations as required, 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 Operational Description	This is a client device and an end product (not a module) therefore no user instructions related to limitations / restrictions of use apply. Limitations explaining that client-to-client operations are not supported in the 6GHz bands are on page 5 (paragraph D) of the operational description exhibit A3LSMS911B_OPD_WLAN_Operational_Description_221026 .
External Photos	Client device – form factor requirements do not apply.
Cover Letter / User Manual Operational Description	Modular device Not applicable, this is not a modular device
RF Exposure exhibit	RF Exposure Classification is portable, consistent with intended use. Simultaneous transmissions with other co-located transmitters is addressed in section 14.3.3 A3LSMS911B_Part 1 SAR Report_1 of 5_R1 , which uses the higher SAR value of the Wi-Fi 6GHz and Wi-Fi 5GHz bands (the device can only operate in either band, not both) to determine total SAR across all simultaneously operating transmitters.
Operational Description	Operational Description Exhibit A3LSMS911B_OPD_WLAN_Operational_Description_221026 , pages 18 – 20, contains the 15.407(i) security information.