

Reference device	Variant device	Key Differences
FCC ID XX6SC2124	FCC ID XX6SC2124M	Due to the availability issues for the current Bluetooth and Wi-Fi module (LBEP5CLWTC-631 Type WT), and GNSS module (Ublox M8), SC2124 has undergone a design change with new BT/Wi-Fi module - LBEE59B1LV-278 Type 1LV and a new GNSS module (Ublox M10).

Rule Part	Test item	Data Reference	Comments
TNB			
FCC 90.205	Maximum Conducted Output Power	N	Full testing for model SC2124 and for model SC2124M
FCC 90.209	Bandwidth Limitations	Y	Full testing for model SC2124 and data reference for model SC2124M
FCC 90.210	Spurious Emissions at Antenna Terminals	N	Full testing for model SC2124 and for model SC2124M
FCC 90.210	Frequency stability	Y	Full testing for model SC2124 and data reference for model SC2124M
FCC 90.214	Transient Frequency Behaviour	Y	Full testing for model SC2124 and data reference for model SC2124M
FCC 90.221	Adjacent Channel Power	Y	Full testing for model SC2124 and data reference for model SC2124M
FCC 90.207	Types of Emissions	Y	Full testing for model SC2124 and data reference for model SC2124M
FCC 90.210	Radiated Spurious Emissions	N	Full testing for model SC2124 and for model SC2124M
FCC 22.917(b) FCC 2.1049(h)	Occupied Bandwidth	Y	Full testing for model SC2124 and data reference for model SC2124M
DTS (802.11 b, g, n)			

FCC 15.247 (a)	20 dB Bandwidth	N	Full testing for model SC2124 and for model SC2124M
FCC 15.247 (b)	Maximum output power and antenna gain	N	Full testing for model SC2124 and for model SC2124M
FCC 15.247 (c)	Band-edge emissions compliance (Transmitter)	N	Full testing for model SC2124 and for model SC2124M
FCC 15.247 (d) FCC 15.205 FCC 15.209	Band Edge measurements	N	Full testing for model SC2124 and for model SC2124M
FCC 15.247 (e)	Power spectral density	N	Full testing for model SC2124 and for model SC2124M
FCC 15.247 (d) FCC 15.209	Conducted Spurious Emission	N	Full testing for model SC2124 and for model SC2124M
ANSI C63.10:2013	Duty Cycle	N	Full testing for model SC2124 and for model SC2124M
FCC 15.205 FCC 15.207	AC Power Line Conducted Emission	N	Full testing for model SC2124 and for model SC2124M
FCC 15.203	Antenna Requirements	N	Full testing for model SC2124 and for model SC2124M
DTS (BLUETOOTH LOW ENERGY)			
FCC 15.247 (a)	Occupied Bandwidth	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.247 (b)	Maximum output power and antenna gain	N	Full testing for integrated module and for model SC2124M
FCC 15.247 (d)	Radiated Spurious Emissions	N	Full testing for integrated module and for model SC2124M
FCC 15.247 (d)	Out of band Emissions	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.247 (e)	Power spectral density	Y	Full testing for integrated module and data reference for model SC2124M

FCC 15.205 FCC 15.209	Field Strength Limits	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.207	AC Conducted Emissions 150kHz – 30MHz	Y	Full testing for integrated module and data reference for model SC2124M
ANSI C63.10-2013 CLAUSE 11.6	Duty Cycle	N	Full testing for model SC2124M
DSS (BLUETOOTH)			
FCC 15.247 (a)	Occupied Bandwidth	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.247 (b)	Maximum output power and antenna gain	N	Full testing for integrated module and for model SC2124M
FCC 15.247 (a)	Channel Separation	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.247 (a)	Number of Channels	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.247 (d)	Radiated Spurious Emissions	N	Full testing for integrated module and for model SC2124M
FCC 15.247 (d)	Out of band Emissions	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.247 (a)	Time of Occupancy measurement	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.205 FCC 15.209	Field Strength Limits	Y	Full testing for integrated module and data reference for model SC2124M
FCC 15.207	AC Conducted Emissions 150kHz – 30MHz	Y	Full testing for integrated module and data reference for model SC2124M
ANSI C63.10-2013 CLAUSE 11.6	Duty Cycle	N	Full testing for model SC2124M

Rule Part	Test item	Data Reference	Comments
FCC 2.1091 FCC 2.1093 FCC 1.1310 FCC 1.1307	RF Exposure Exemption evaluation	N	Full testing for model SC2124 and for model SC2124M
FCC 2.1093	MEASUREMENT RESULTS FOR SAR (SPECIFIC ABSORPTION RATE)	N	Full testing for model SC2124 and for model SC2124M

Unintentional radiator (EMC) is out of the certification scope.

Rule Part	Test item	Data Reference	Comments
JAB			
FCC 15.107	Conducted emission	N	Full testing for model SC2124 and for model SC2124M
FCC 15.109	Radiated emission	N	Full testing for model SC2124 and for model SC2124M

Acceptance Criteria for all test cases
FCC Part 90 (TNB) For the same radiated test conditions, It has been evaluated the value of the carrier, with the difference between the reference and the variant being <3 dB.
FCC Part 15.247 (DTS) For the same radiated test conditions, It has been taken the considered most critical range of harmonic emission of the carrier and compared the value of the first evaluable harmonic, with the difference between the reference and the variant being <3 dB.
FCC Part 15.247 (DSS) For the same radiated test conditions, It has been evaluated the value of the carrier, with the difference between the reference and the variant being <3 dB.