

12.3. TEST RESULT

EUT	QUIRKY - BOLT - APP ENABLED FINGERPRINT LOCK	Model Name	QKY-BOLT-BLK
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Horizontal

PK

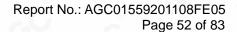


ΑV



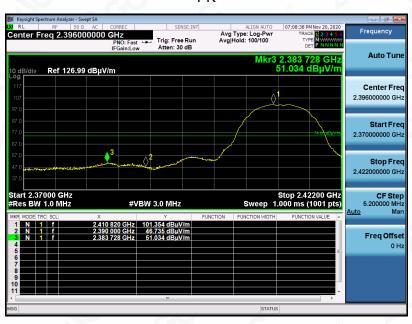
RESULT: PASS

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Test Mode	802.11b with data rate 1 2412MHZ	Antenna	Vertical

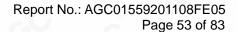


AV



RESULT: PASS

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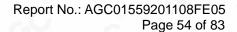
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Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Horizontal



AV



RESULT: PASS

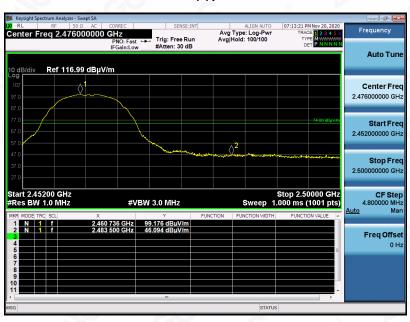


g/Inspection
The test results
the test report.



EUT	QUIRKY - BOLT - APP ENABLED FINGERPRINT LOCK	Model Name	QKY-BOLT-BLK
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHZ	Antenna	Vertical

PK

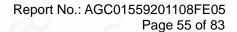


AV



RESULT: PASS

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The test results the test report.



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Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Horizontal

PK

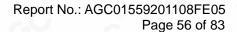


ΑV



RESULT: PASS

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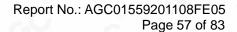
EUT	QUIRKY - BOLT - APP ENABLED FINGERPRINT LOCK	Model Name	QKY-BOLT-BLK
Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHZ	Antenna	Vertical



AV



RESULT: PASS





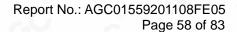
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Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHZ	Antenna	Horizontal



AV



RESULT: PASS



g/Inspection
The test results
the test report.



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PK

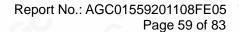


ΑV



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Temperature	21.8°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Horizontal

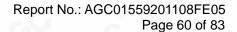


AV



RESULT: PASS

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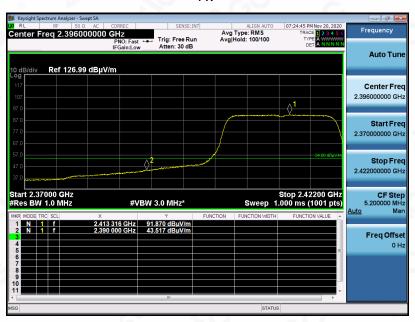




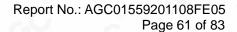
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Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n 20 with data rate 6.5 2412MHZ	Antenna	Vertical



ΑV



RESULT: PASS





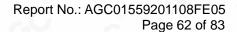
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RESULT: PASS





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13. FCC LINE CONDUCTED EMISSION TEST

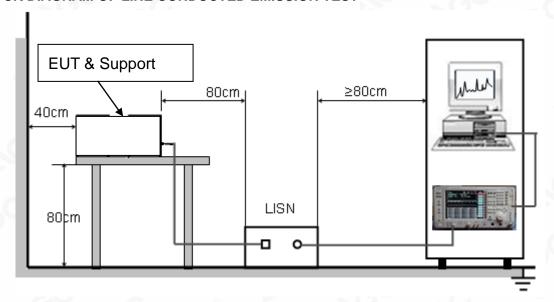
13.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F========	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

13.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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13.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received AC120V/60Hz power from a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

13.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

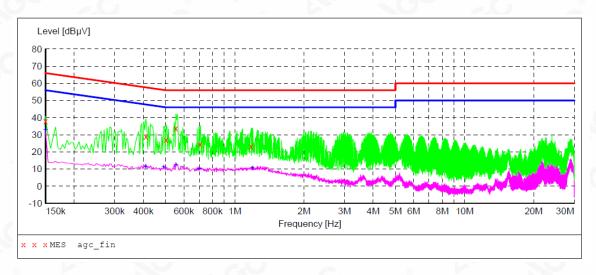
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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13.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

Line Conducted Emission Test Line 1-L



MEASUREMENT RESULT: "agc fin"

2020/11/20 21:23

2020/11/20 21:23								
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line		
0.150000	37.90	11.3	66	28.1	QP	L1		
0.410000	29.10	11.3	58	28.5	QP	L1		
0.502000	27.00	11.3	56	29.0	QP	L1		
0.554000	33.70	11.3	56	22.3	QP	L1		
0.706000	24.40	11.3	56	31.6	QP	L1		
1.178000	23.40	11.3	56	32.6	QP	L1		

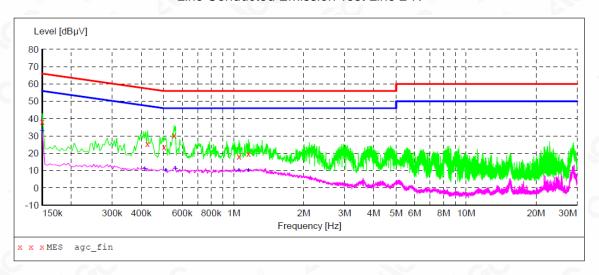
MEASUREMENT RESULT: "agc_fin2"

2020/11/20 21:23

2020/11/20 21.23								
				_	Detector	Line		
MHz	dΒμ∇	dB	dΒμ∇	dB				
0.150000	33.00	11.3	56	23.0	AV	L1		
0.410000	11.40	11.3	48	36.2	AV	L1		
0.490000	11.10	11.3	46	35.1	AV	L1		
0.554000	12.30	11.3	46	33.7	AV	L1		
0.698000	10.10	11.3	46	35.9	AV	L1		
1.194000	10.50	11.3	46	35.5	AV	L1		



Line Conducted Emission Test Line 2-N



MEASUREMENT RESULT: "agc_fin"

2020/11/20 21:15								
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	
	0.150000	38.20	11.3	66	27.8	QP	N	
	0.426000	25.60	11.3	57	31.7	QP	N	
	0.502000	23.70	11.3	56	32.3	QP	N	
	0.554000	30.30	11.3	56	25.7	QP	N	
	1.054000	18.20	11.3	56	37.8	QP	N	
	1.158000	19.60	11.3	56	36.4	QP	N	

MEASUREMENT RESULT: "agc fin2"

20	20/11/20 21	:15					
	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
	0.150000	32.90	11.3	56	23.1	AV	N
	0.414000	11.10	11.3	48	36.5	AV	N
	0.510000	10.20	11.3	46	35.8	AV	N
	0.562000	11.20	11.3	46	34.8	AV	N
	1.054000	10.00	11.3	46	36.0	AV	N
	1.158000	10.30	11.3	46	35.7	AV	N

RESULT: PASS

Note: All the test modes had been tested, the mode 1 was the worst case. Only the data of the worst case would be record in this test report.

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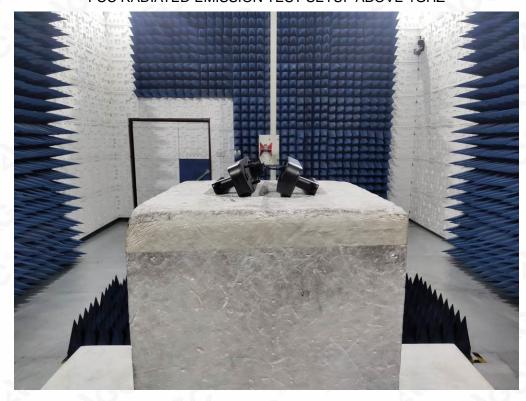


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



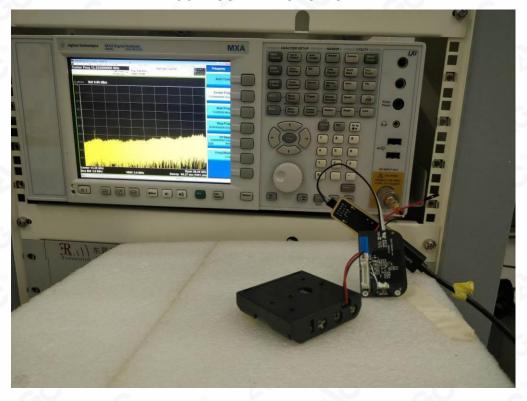
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CONDUCTED EMISSION TEST SETUP



CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

ALL VIEW OF EUT



TOP VIEW OF EUT



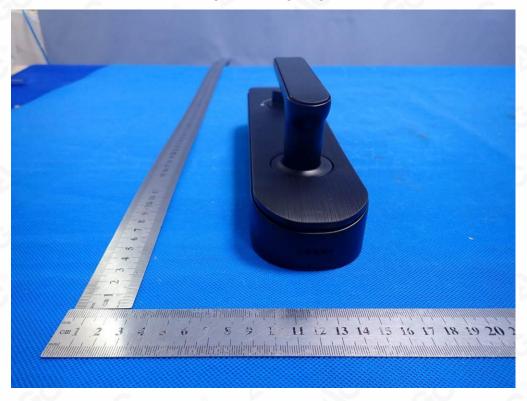
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BOTTOM VIEW OF EUT



FRONT VIEW OF EUT



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BACK VIEW OF EUT



LEFT VIEW OF EUT



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RIGHT VIEW OF EUT



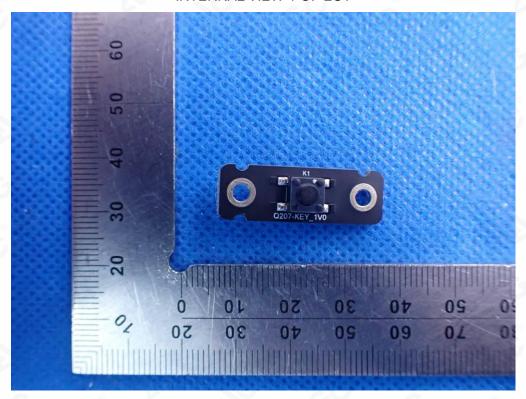
OPEN VIEW OF EUT



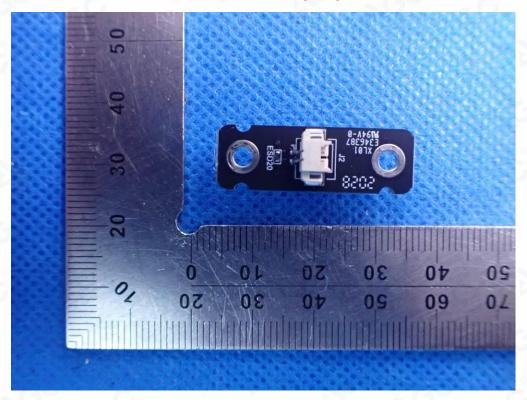
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INTERNAL VIEW-1 OF EUT



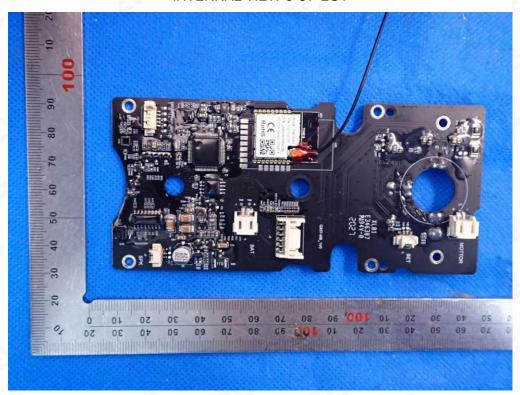
INTERNAL VIEW-2 OF EUT



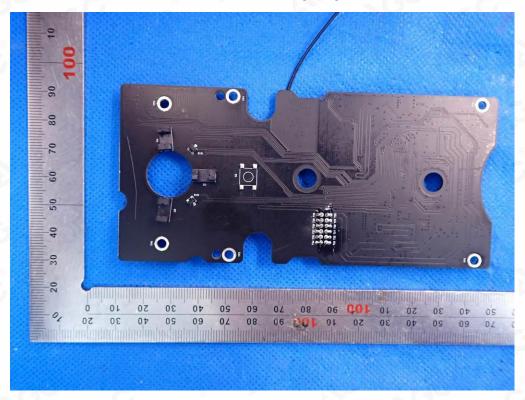
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INTERNAL VIEW-3 OF EUT



INTERNAL VIEW-4 OF EUT



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