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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement

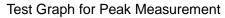


RESULT: PASS



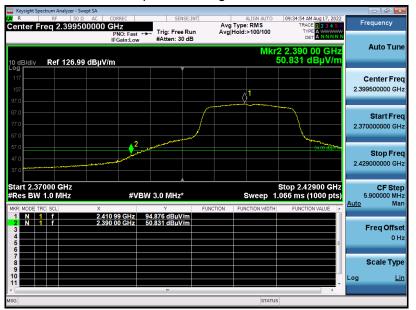
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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal





Test Graph for Average Measurement

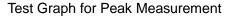


RESULT: PASS



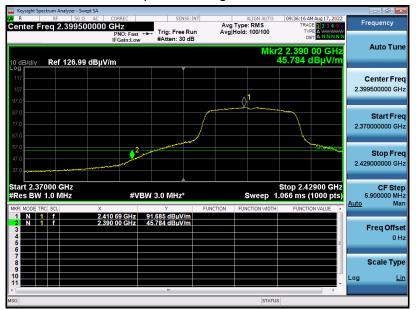
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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical





Test Graph for Average Measurement



RESULT: PASS



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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



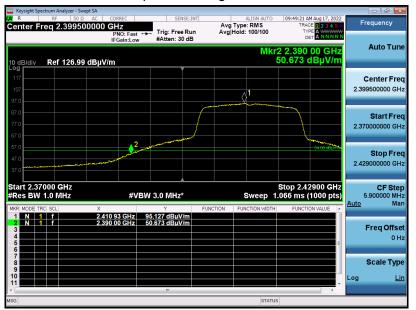
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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

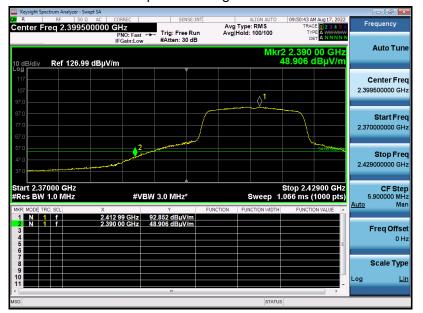


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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement Frequency Center Freq 2.399500000 GHz Avg Type: Log-Pw Avg|Hold: 100/100 Trig: Free Run #Atten: 30 dB IFGain:Low Auto Tune 2 2.390 00 G 68.138 dBu\ Ref 126.99 dBµV/m B/div Center Fred 2.399500000 GH; Start Fred 2 2.370000000 GHz Stop Freq 2.429000000 GHz Stop 2.42900 GHz 1.066 ms (1000 pts) art 2.37000 GHz es BW 1.0 MHz CF Step 5.900000 MHz #VBW 3.0 MHz 2.411 05 GHz 101.260 dBµV/ 2.390 00 GHz 68.138 dBµV/ N Freq Offse 0 Hz Scale Type Lin

Test Graph for Average Measurement



RESULT: PASS



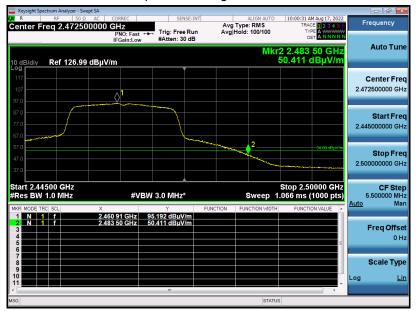
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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



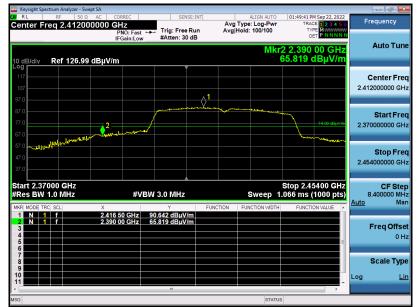
RESULT: PASS



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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2422MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



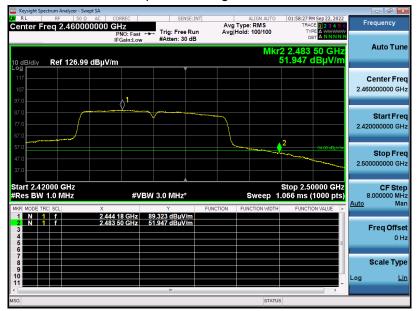
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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



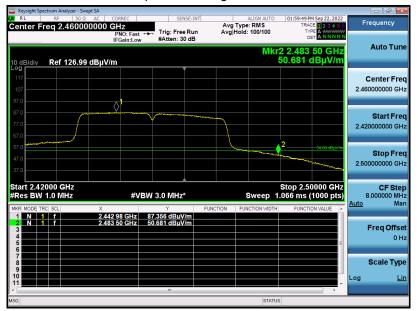
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EUT	Mini POS Terminal	Model Name	P12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 with data rate 13.5 2452MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS



12. LINE CONDUCTED EMISSION TEST

12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

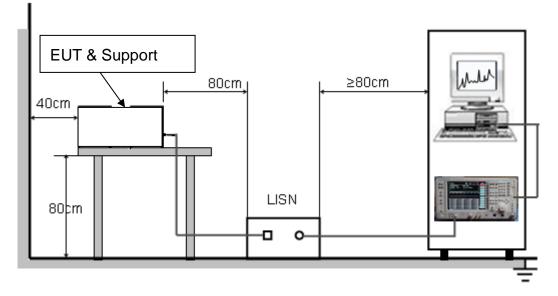
Frequency	Maximum RF Line Voltage				
Frequency	Q.P (dBµV)	Average (dBµV)			
150kHz~500kHz	66-56	56-46			
500kHz~5MHz	56	46			
5MHz~30MHz	60	50			

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.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST





12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received DC 5V power from adapter which 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.

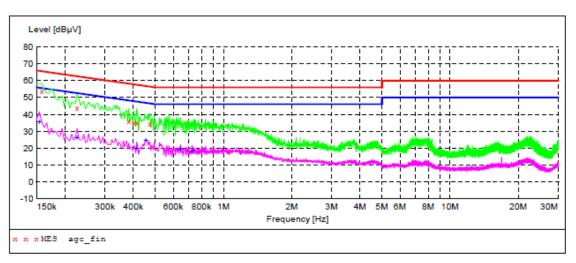
Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. 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.
- 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 was reported on the Summary Data page.



12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Line Conducted Emission Test Line 1-L

MEASUREMENT RESULT: "agc_fin"

2022/8/19	10:57					
Frequenc MH	-	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.15800	0 54.00	6.8	66	11.6	QP	L1
0.22600	0 44.20	6.4	63	18.4	QP	L1
0.38200	0 36.10	5.7	58	22.1	QP	L1
0.40200	0 35.20	5.7	58	22.6	QP	L1
0.41400	0 35.10	5.6	58	22.5	QP	L1
0.47400	34.40	5.5	56	22.0	QP	L1

MEASUREMENT RESULT: "agc fin2"

2022/8/19 10:	57					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.154000	35.60	6.9	56	20.2	AV	L1
0.226000	26.40	6.4	53	26.2	AV	L1
0.414000	19.70	5.6	48	27.9	AV	L1
0.454000	24.60	5.5	47	22.2	AV	L1
0.646000	19.40	5.4	46	26.6	AV	L1
0.726000	18.30	5.4	46	27.7	AV	L1

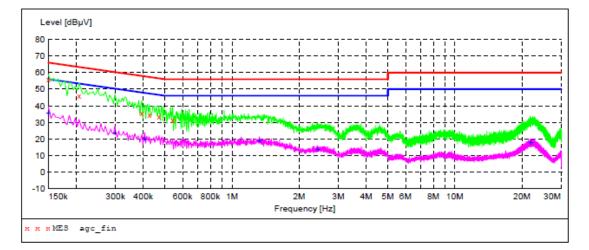
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Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/







MEASUREMENT RESULT: "agc fin"

2022/8/19 10:	54					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	55.90	6.9	66	10.1	QP	N
0.206000	46.00	6.5	63	17.4	QP	N
0.394000	35.40	5.7	58	22.6	QP	N
0.426000	34.70	5.6	57	22.6	QP	N
0.470000	33.40	5.5	57	23.1	QP	N
0.542000	31.50	5.4	56	24.5	QP	Ν

MEASUREMENT RESULT: "agc_fin2"

2022/8/19 10:	54					
Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.150000	35.80	6.9	56	20.2	AV	Ν
0.298000	23.60	6.0	50	26.7	AV	N
0.406000	20.00	5.7	48	27.7	AV	N
1.326000	18.60	5.9	46	27.4	AV	N
2.418000	13.70	6.5	46	32.3	AV	N
21.898000	18.00	8.9	50	32.0	AV	N

RESULT: PASS

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 Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

 Tel: +86-755 2523 4088
 E-mail: agc@agccert.com
 Web: http://www.agccert.com/



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC01689220805AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC01689220805AP02

----END OF REPORT----



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