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Radiated Emissions Test Results Above 1GHz

EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5745MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value - Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
11490.000	46.17	9.42	55.59	74.00	-18.41	peak
11490.000	32.07	9.42	41.49	54.00	-12.51	AVG
17235.000	41.28	10.51	51.79	68.20	-16.41	peak
Remark:						

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Radiated Emission Above 1GHz-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
11490.000	47.11	9.42	56.53	74.00	-17.47	peak
11490.000	32.18	9.42	41.60	54.00	-12.40	AVG
17235.000	41.35	10.51	51.86	68.20	-16.34	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass



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Radiated Emissions Test Results Above 1GHz

EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5785MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
11570.000	47.56	9.42	56.98	74.00	-17.02	peak
11570.000	32.33	9.42	41.75	54.00	-12.25	AVG
17355.000	41.05	10.51	51.56	68.20	-16.64	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Radiated Emission Above 1GHz-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
11570.000	48.31	9.42	57.73	74.00	-16.27	peak
11570.000	30.28	9.42	39.70	54.00	-14.30	AVG
17355.000	40.74	10.51	51.25	68.20	-16.95	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass



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Radiated Emissions Test Results Above 1GHz

EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5825MHz	Antenna	Horizontal/Vertical

Radiated Emission Above 1GHz-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
11650.000	47.13	9.62	56.75	74.00	-17.25	peak
11650.000	30.05	9.62	39.67	54.00	-14.33	AVG
17475.000	41.37	10.75	52.12	68.20	-16.08	peak

Remark:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Radiated Emission Above 1GHz-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
11650.000	47.25	9.62	56.87	74.00	-17.13	peak
11650.000	30.01	9.62	39.63	54.00	-14.37	AVG
17475.000	41.13	10.75	51.88	68.20	-16.32	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Result: Pass

Note:

- 1. The amplitude of other spurious emissions from 1GHz to 40 GHz which are attenuated more than 20 dB below the permissible value need not be reported.
- 2. Factor = Antenna Factor + Cable loss Amplifier gain, Margin=Measure Result-Limit.
- 3. The "Factor" value can be calculated automatically by software of measurement system.
- 4. All test modes had been pre-tested. Refer to Chapter 5 of the report for details.

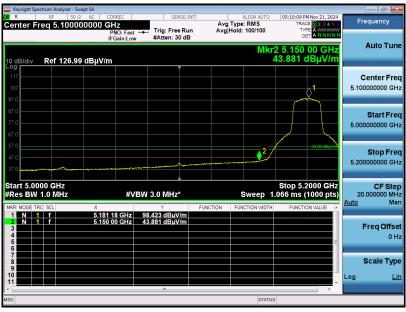


EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass



EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

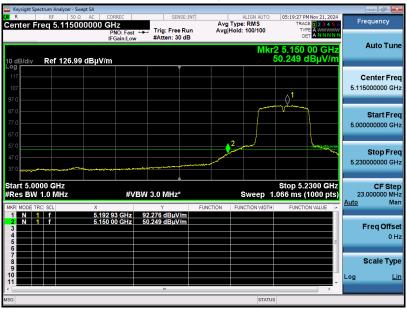


EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n40_5190MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass



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EUT Name	POS Terminal	Model Name	P3			
Temperature	25°C	Relative Humidity	55.4%			
Pressure	960hPa	Test Voltage	DC 7.4V by battery			
Test Mode	802.11n40_5190MHz	Antenna	Vertical			

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass



EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5260MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass



EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n20_5260MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

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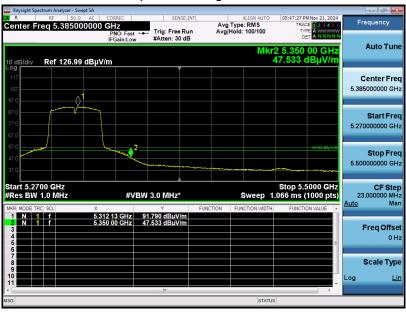


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EUT Name	POS Terminal	Model Name	P3			
Temperature	25°C	Relative Humidity	55.4%			
Pressure	960hPa	Test Voltage	DC 7.4V by battery			
Test Mode	802.11n40_5270MHz	Antenna	Horizontal			

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

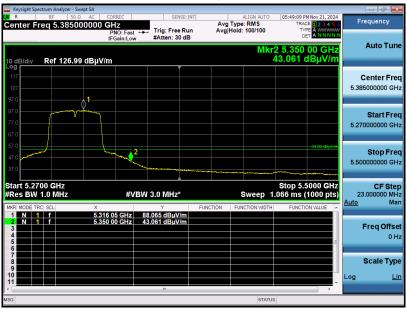


EUT Name	POS Terminal	Model Name	P3
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	DC 7.4V by battery
Test Mode	802.11n40_5270MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



Result: Pass

Note:

1. The factor had been edited in the "Input Correction" of the Spectrum Analyzer.

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2. All test modes had been pre-tested, Refer to Chapter 5 of the report for details.



12. AC Power Line Conducted Emission Test

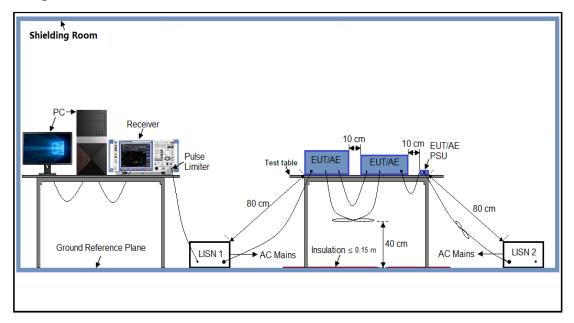
12.1 Measurement limit

Fraguenay	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 0.50MHz.

12.2 Block Diagram of Line Conducted Emission Test





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12.3 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 equipment received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using 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.
- 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 was reported on the Summary Data page.
- 4. The worst mode is 802.11n20 5180MHz, antenna 1 and antenna 2 work together.



12.5 Test Result of Line Conducted Emission Test

		AC Pow	er Line Con	ducted Er	mission Test		
Mode	802.11n(20MHz)5180MHz LISN Line Hot Side					Hot Side	
Level [[dBµV]						
80				-,	,,,		
70			\				
60	-+	+	<u></u>			1 1 1	-
50	- 		<u> </u>	-ii-			<u> </u>
30	MINAMMINAMI	Ship wheeling	Walker war	_		+ 	and a second
20	Machina L	Mariana					A SECRETARIAN AND ASSESSMENT OF THE PARTY OF
10			; ; !-!	_!!_			
0		+					
-10 150k	300k 400	k 600k 800k	 	2M 3M	4M 5M 6M	8M 10M	20M 30M
1504	300K 400	K OUUK SUUF		zwi swi juency [Hz]	4M SM 6M	SIVI TUIVI	20W 30W
+ + + MES	agc_fin						
	~						
_	12/17 22	RESULT :59		fin"			
_			Transd dB	Limit dBµV	Margin dB	Dete	ctor Line
Fr	12/17 22 equency MHz	:59 Level dBµV	Transd	Limit dBµV	dB	Dete:	ctor Line
Fr 0	12/17 22 equency	:59 Level	Transd dB	Limit	dB 23.8		
Fr 0 0 0	12/17 22 equency MHz .158000 .242000	:59 Level dBμV 41.80 35.30 35.80	Transd dB 6.1 6.1 6.1	Limit dBµV	dB 23.8 26.7 21.5	QP QP QP	L1
Fr 0 0 0	12/17 22 equency MHz .158000 .242000 .426000	:59 Level dBµV 41.80 35.30 35.80 34.60	Transd dB 6.1 6.1 6.1 6.1	Limit dBµV 66 62 57	dB 23.8 26.7 21.5 21.8	QP QP QP QP	L1 L1 L1 L1
Fr 0 0 0 0	12/17 22 equency MHz .158000 .242000 .426000 .478000	:59 Level dBµV 41.80 35.30 35.80 34.60 31.10	Transd dB 6.1 6.1 6.1 6.1 6.2	Limit dBµV 66 62 57 56	dB 23.8 26.7 21.5 21.8 24.9	QP QP QP QP QP	L1 L1 L1 L1 L1
Fr 0 0 0 0	12/17 22 equency MHz .158000 .242000 .426000	:59 Level dBµV 41.80 35.30 35.80 34.60	Transd dB 6.1 6.1 6.1 6.1	Limit dBµV 66 62 57	dB 23.8 26.7 21.5 21.8 24.9	QP QP QP QP	L1 L1 L1 L1
Fr 0 0 0 0	12/17 22 equency MHz .158000 .242000 .426000 .478000	:59 Level dBµV 41.80 35.30 35.80 34.60 31.10	Transd dB 6.1 6.1 6.1 6.1 6.2	Limit dBµV 66 62 57 56	dB 23.8 26.7 21.5 21.8 24.9	QP QP QP QP QP	L1 L1 L1 L1 L1
0 0 0 0 0 19	12/17 22 equency MHz .158000 .242000 .426000 .478000 .966000	:59 Level dBµV 41.80 35.30 35.80 34.60 31.10 27.70	Transd dB 6.1 6.1 6.1 6.1 6.2 7.1	Limit dBµV 66 62 57 56 56	dB 23.8 26.7 21.5 21.8 24.9	QP QP QP QP QP	L1 L1 L1 L1 L1
0 0 0 0 0 19	12/17 22 equency MHz .158000 .242000 .426000 .478000	:59 Level dBµV 41.80 35.30 35.80 34.60 31.10 27.70	Transd dB 6.1 6.1 6.1 6.1 6.2 7.1	Limit dBµV 66 62 57 56	dB 23.8 26.7 21.5 21.8 24.9	QP QP QP QP QP	L1 L1 L1 L1 L1

Result: Pass

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Margin

dΒ

29.0

20.3

20.4

24.6

28.2

33.9

Detector

ΑV

ΑV

ΑV

ΑV

ΑV

ΑV

Line

 L_1

L1

L1

L1

L1

L1

Frequency

0.158000

0.426000

0.474000

0.938000

2.270000

26.602000

MHz

Level

26.60

27.00

26.00

21.40

17.80

16.10

dΒμV

Transd

dΒ

6.1

6.1

6.1

6.2

6.3

8.1

Limit

dBuV

56

47

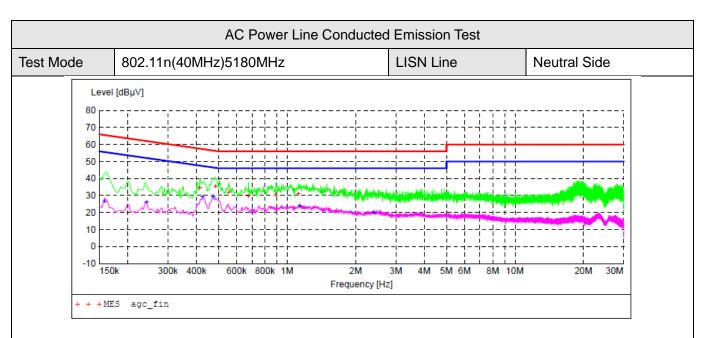
46

46

46

50





MEASUREMENT RESULT: "agc fin"

2021/12/11 20	. 02					
Frequency MHz	Level dBµV		Limit dBµV	Margin dB	Detector	Line
0.414000	34.50	6.1	58	23.1	QP	N
0.486000	35.40	6.1	56	20.8	QP	N
0.554000	32.00	6.2	56	24.0	QP	N
0.678000	29.70	6.2	56	26.3	QP	N
0.894000	29.90	6.2	56	26.1	QP	N
1.122000	31.00	6.2	56	25.0	QP	N

MEASUREMENT RESULT: "agc fin2"

2024/12/17 23:02

Frequ	ency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line
0.15		26.60 26.10	6.1 6.1	56 52	29.0 25.9	AV	N N
0.42	6000	29.10	6.1	47	18.2	AV	N
0.47 1.13		29.00 23.90	6.1 6.2	46 46	17.4 22.1		N N
2.40	2000	20.00	6.3	46	26.0	AV	N

Result: Pass

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Appendix I: Photographs of Test Setup

Refer to the Report No.: AGC01689241119AP01

Appendix II: Photographs of EUT

Refer to the Report No.: AGC01689241119AP02

----End of Report----



Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
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- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
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- 8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.