

FCC Test Report

Test Report
On Behalf of
ShenZhen Zhongyi Technology CO., Ltd.
For
Magport Tri-Fold Wireless Charger
Model No.: EAC-MA24, M1096Q

FCC ID: 2A9Q9-EAC-MA24

Prepared For: ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology City, Xinxue Community, Bantian Street, Longgang District, Shenzhen, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test: Dec. 08, 2023 ~ Dec. 21, 2023

Date of Report: Dec. 21, 2023

Report Number: HK2312085969-1E

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Test Result Certification

Applicant's Name.....: ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology

Report No.: HK2312085969-1E

Address.....: City, Xinxue Community, Bantian Street, Longgang District,

Shenzhen, China

Manufacturer's Name: ShenZhen Zhongyi Technology CO., Ltd.

Room 401, No.4 Road One, Shangxue Science and Technology

Address.....: City, Xinxue Community, Bantian Street, Longgang District,

Shenzhen, China

Product Description

Trade Mark N/A

Product Name Magport Tri-Fold Wireless Charger

Model and/or Type Reference: EAC-MA24, M1096Q

Standards: FCC CFR 47 PART 18

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Date of Test

Date (s) of performance of tests Dec. 08, 2023 ~ Dec. 21, 2023

Test Result..... Pass

Testing Engineer :

THE COLUMN

(Len Liao)

Technical Manager:

JUDY War

(Sliver Wan)

Authorized

Signatory

Jason Thou

(Jason Zhou)

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** Modified History **

Revision			Description			Issued Data		ark
Revisio	n 1.0	Initial ⁻	Test Report R	elease	Dec. 2	21, 2023	Jason	Zhou
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1. Test Summary

1.1. Test Procedures and Results

Description of Test	Section Number	Result
Conducted Emissions Test	18.307	COMPLIANT
Radiated Emission Test	18.305	COMPLIANT

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.2. Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CA100229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3. Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2 Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2 Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2

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2. General Information

2.1. General Description of EUT

Equipment:	Magport Tri-Fold Wireless Charger	-n/G	TOG.
Model Name:	EAC-MA24	WAKTESTIN	WAKTEST
Series Models:	M1096Q		9
Model Difference:	All model's the function, software and electric with product color and model named different. EAC-MA24.		-mG
Trade Mark:	N/A		
FCC ID:	2A9Q9-EAC-MA24	TESTING	NY TESTING
Antenna Type:	Coil Antenna	MUM.	O HO.
Antenna Gain:	0dBi		
Operation Frequency:	112KHz~205KHz	-CTING	CTING
Test Frequency:	Mobile Phone: 118KHz Earbuds: 118KHz Watch: 180KHz	WAKE	MAN IS
Modulation Type:	ASK MAN TESTING	10	TESTING
Power Source:	Type-C Input: 5V/3A, 9V/3A Phone Output: 5W/ 7.5W/10W/15W(Max) Watch Output: 2.5W Earbuds Output: 5W	WHUAY TESTING	HUAK TESTING
Power Rating:	Type-C Input: 5V/3A, 9V/3A Phone Output: 5W/ 7.5W/10W/15W(Max) Watch Output: 2.5W Earbuds Output: 5W	HAK TESTING	MAK TESTING

Note: The transfer system includes three coils, 3 coils can work individually or can work at the same time. All the situation has been tested, only the worst situation was recorded in the report.



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2.2. Carrier Frequency of Channels

(048) Y.		(200)	1,832	(CHE) 1	165(2)
	Test Frequency				
01	118KHz				
02	118KHz	AK TESTING	AK TESTING	AKTESTING	OKTEST
03	180KHz				(a) Ho

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2.3. Test Mode

2.3. Test	wode	MATES III JANATES JANA
Test Item	Test Mode	Description
	Mode 1	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Wireless load 2 (Full load) + Wireless load 3 (Full load)
	Mode 2	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Wireless load 2 (Half load) + Wireless load 32 (Full load)
	Mode 3	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Wireless load 2 (Null load) + Wireless load 3 (Full load)
	Mode 4	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Wireless load 2 (Full load) + Wireless load 3 (Half load)
	Mode 5	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Wireless load 2 (Half load) + Wireless load 3 (Half load)
	Mode 6	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Wireless load 2 (Null load) + Wireless load 3 (Half load)
Radiated & Conducted	Mode 7	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <1%) + Wireless load 2 (Full load) + Wireless load 3 (Null load)
Test Cases	Mode 8	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: <50%) + Wireless load 2 (Half load) + Wireless load 3 (Null load)
	Mode 9	AC/DC Adapter + EUT + Wireless load 1 (Battery Status: >95%) + Wireless load 2 (Null load) + Wireless load 3 (Null load)
	Mode 10	AC/DC Adapter+ EUT + Wireless load 1 (Battery Status: <1%)
	Mode 11	AC/DC Adapter+ EUT + Wireless load 1 (Battery Status: <50%)
	Mode 12	AC/DC Adapter+ EUT + Wireless load 1 (Battery Status: >95%)
	Mode 13	AC/DC Adapter + EUT + Wireless load 2 (Full load)
	Mode 14	AC/DC Adapter + EUT + Wireless load 2 (Half load)
	Mode 15	AC/DC Adapter + EUT + Wireless load 2 (Null load)
	Mode 16	AC/DC Adapter + EUT + Wireless load 3 (Full load)
	Mode 17	AC/DC Adapter + EUT + Wireless load 3 (Half load)
	Mode 18	AC/DC Adapter + EUT + Wireless load 3 (Null load)
-ml ^Q	Mode 19	AC/DC Adapter + EUT (Null Load)

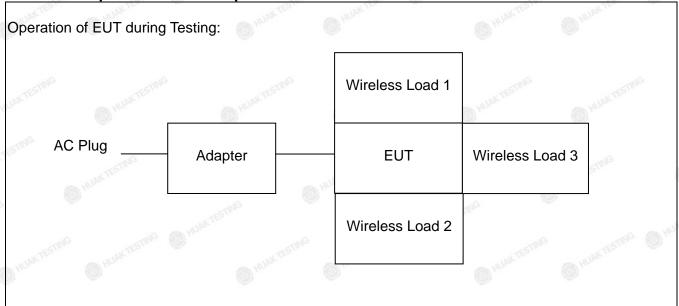
Note: 1. All modes and configurations above have been tested, the worst-case configuration is Mode 1.

- 2. For Radiated Emission, 3axis were chosen for testing for each applicable mode, including the mobile phone in vertical and horizontal positions.
- 3. The wireless load replaces the Mobile Phone, Earbuds and Watch by Lab.
- 4. According to the manufacturer's design principle, the wireless charging power will reach its maximum when the client device's battery level is between 1% and 10%.

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2.4. Description of Test Setup



The sample was placed (0.8m (30MHz~1GHz), 0.8m (9KHz~30MHz)) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.

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2.5. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

ak 72						
Item Equipment		Trade Mark	Model/Type No.	Specification	Remark	
LTESTI G	Magport Tri-Fold Wireless Charger	NI/A FAL.		N/A	EUT	
2	USB Cable	N/A	N/A	Length:1.22m	Accessory	
AMAKTES IN	Adapter	N/A N/A	CD289	Input: AC100-240V, 50/60Hz, 2A Max USB-C1 Output: DC5V/3A, 9V3A, 12V/3A, 15V/3A, 20V/5A, 28V/5A 140W MAX USB-C2 Output: DC5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A 100W MAX USB-A Output: DC5V/4.5A, 4.5V/5A, 5V/3A, 9V/2A, 12V/1.5A 22.5W MAX Total Output: 140W Max	Peripheral	
4	Wireless Load 1	YBZ	N/A	Wireless input 15W	Peripheral	
5	Wireless Load 2	YBZ	N/A	Wireless input:2.5W	Peripheral	
6	Wireless Load 3	YBZ	N/A	Wireless input:5W	Peripheral	
MAKTES	MAKTESIN P	a ax	ESTING WHATESTING	LAN TESTIVE	WAK TESTING	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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2.6. Measurement Instruments List

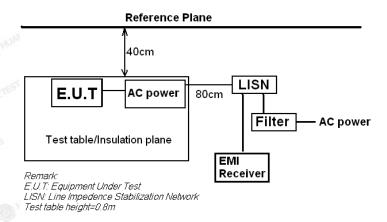
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N. Artificial Mains Network	R&S	ENV216	HKE-002	Feb. 17, 2023	1 Year
2.	Receiver	R&S	ESR-7	HKE-005	Feb. 17, 2023	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	1 Year
7.	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 17, 2023	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Feb. 17, 2023	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	1 Year
10.	Horn Antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	1 Year
11.	Pre-amplifier	EMCI	EMC051845 SE	HKE-015	Feb. 17, 2023	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JS1120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Feb. 17, 2023	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Feb. 17, 2023	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 17, 2023	1 Year

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3. Conducted Emission Test

3.1. Block Diagram of Test Setup



3.2. Conducted Power Line Emission Limit

According to FCC Part 18.307(b)

15399	(Sall)		1387	(339)		
F	Maximum RF Line Voltage (dΒμV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(111112)	Q.P.	Ave.	Q.P.	Ave.		
0.15 - 0.50	79	66	66-56*	56-46*		
0.50 - 5.00	73	60	56	46		
5.00 - 30.0	73	60	60	50		

^{*} Decreasing linearly with the logarithm of the frequency

For intentional device, according to §18.307 Line Conducted Emission Limit is same as above table.

3.3. Test Procedure

- The equipment was set up as per the test configuration to simulate typical actual usage per the
 user's manual. 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.
- 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. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5. All support equipments received AC power from a second LISN, if any.
- 6. The EUT 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.
- Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



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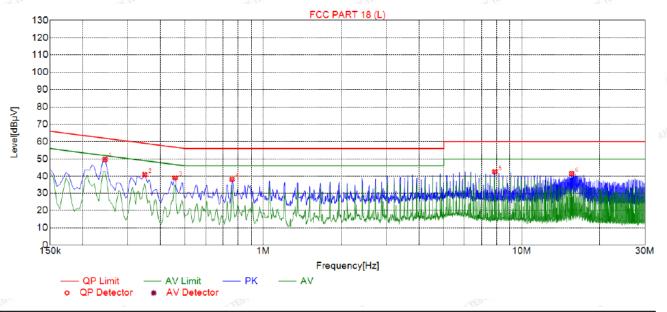


3.4. Test Result

PASS

All the test modes completed for test. Only the worst result was reported as below:

Test Specification: Line



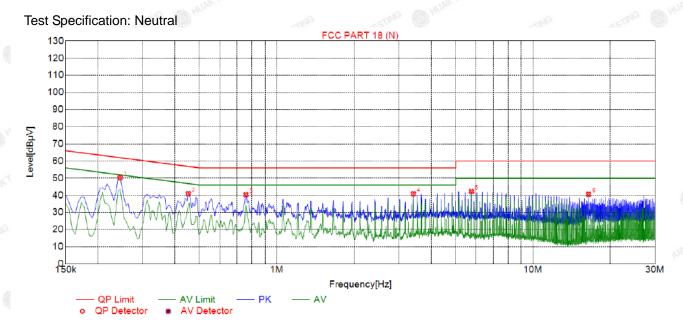
Sus	Suspected List									
NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре		
1	0.2445	49.72	20.03	61.94	12.22	29.69	PK	L		
2	0.3480	40.91	20.03	59.01	18.10	20.88	PK	L		
3	0.4560	39.00	20.04	56.77	17.77	18.96	PK	L		
4	0.7575	38.17	20.06	56.00	17.83	18.11	PK	L		
5	7.8720	42.61	20.16	60.00	17.39	22.45	PK	L		
6	15.6075	41.56	19.97	60.00	18.44	21.59	PK	L		

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

Level=Test receiver reading + correction factor

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,	Suspected List									
3	NO.	Freq. [MHz]	Level [dBµV]	Factor [dB]	Limit [dBµV]	Margin [dB]	Reading [dBµV]	Detector	Туре	
	1	0.2445	50.28	20.03	61.94	11.66	30.25	PK	N	
3.	2	0.4515	40.90	20.04	56.85	15.95	20.86	PK	N	
	3	0.7575	40.30	20.06	56.00	15.70	20.24	PK	N	
1	4	3.4170	40.86	20.24	56.00	15.14	20.62	PK	N	
	5	5.7525	42.28	20.24	60.00	17.72	22.04	PK	N	
	6	16.4940	40.54	19.99	60.00	19.46	20.55	PK	N	

Remark: Margin = Limit - Level

Correction factor = Cable lose + LISN insertion loss

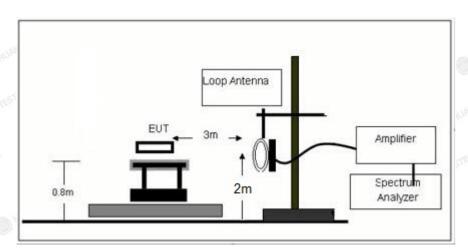
Level=Test receiver reading + correction factor

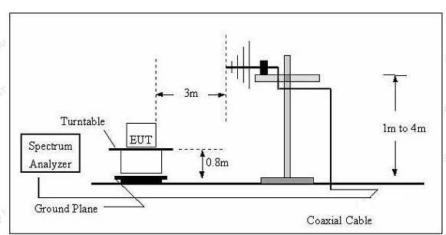
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4. Radiated Emissions

4.1. Block Diagram of Test Setup





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4.2. Rules and Specifications

Except as provided elsewhere in this Subpart 18.305 (b), the field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following table:

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)	
(miscellaneous)					
	Any non- ISM frequency	Below 500 500 or more	15 15 × SQRT(power/500)	300 1300	

Remark:

- (1) Emission level dBuV/m for 0.009~30MHz = 20log (15) + 40log (300/3) dBuV/m;
- (2) Calculated according FCC 18.305.
- (3) The smaller limit shall apply at the cross point between two frequency bands.
- (4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.3. Test Procedure

Measurement distance 3m

For the measurement range up to 30MHz in the following plots the field strength result from 3m Distance measurements are extrapolated to 300m and 30m distance respectively, by 40dB/decade, Per antenna factor scaling.

Measurements below 1000MHz are performed with a peak detector and compared to average limits, Measurements with an average detector are not required.

Note:

For battery operated equipment, the equipment tests shall be performed using a new battery.

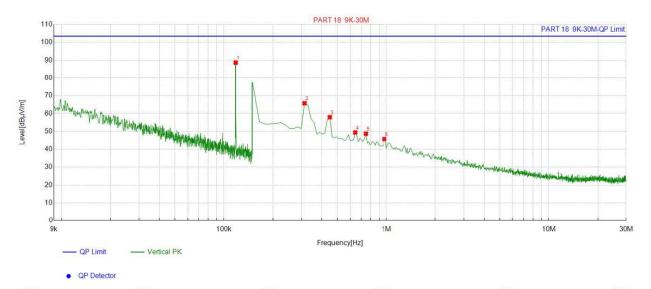
4.4. Test Result

PASS

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Mobile phone:

For 9KHz - 30MHz



				364	200		0.00
7	Suspe	cted List					
	NO.	Freq.	Factor	Reading	Level	Limit	Margin
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
	1	0.118118	13.79	74.85	88.64	103.50	14.86
	2	0.314257	13.70	52.06	65.76	103.50	37.74
	3	0.448649	13.76	44.17	57.93	103.50	45.57
	4	0.642771	13.75	35.64	49.39	103.50	54.11
	5	0.747299	13.92	34.78	48.70	103.50	54.80
	6	0.971286	14.12	31.60	45.72	103.50	57.78

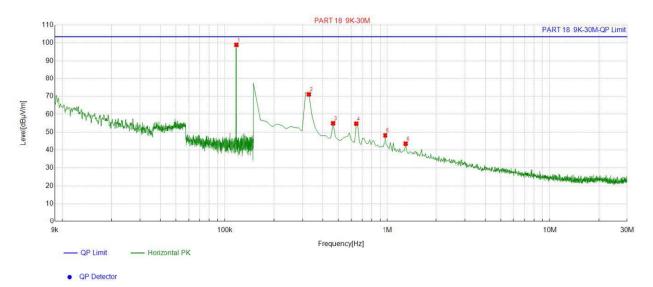
Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

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Earbuds:

For 9KHz - 30MHz



Suspected List

	NO.	Freq.	Factor	Reading	Level	Limit	Margin
3		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]
	1	0.117624	13.79	85.26	99.05	103.50	4.45
	2	0.32919	13.72	57.33	71.05	103.50	32.45
	3	0.463582	13.75	41.20	54.95	103.50	48.55
	4	0.642771	13.75	40.97	54.72	103.50	48.78
	5	0.971286	14.12	34.07	48.19	103.50	55.31
	6	1.2998	14.24	29.31	43.55	103.50	59.95

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

AFICATION.

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103.50

58.64

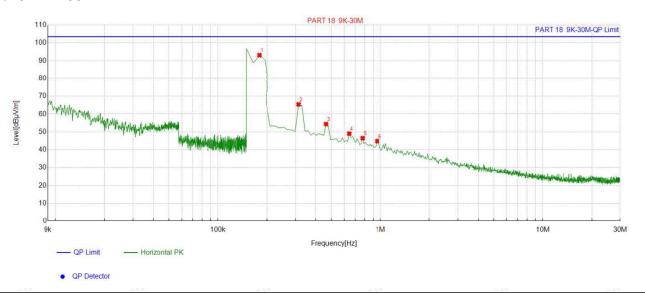
LOTTING Grant to Late

Watch:

For 9KHz - 30MHz

0.956353

6



	Suspected List									
	NO.	Freq.	Factor	Reading	Level	Limit	Margin [dB]			
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]				
	1	0.179865	13.70	79.55	93.25	103.50	10.25			
	2	0.314257	13.70	51.66	65.36	103.50	38.14			
	3	0.463582	13.75	40.63	54.38	103.50	49.12			
	4	0.642771	13.75	35.28	49.03	103.50	54.47			
	5	0.777164	13.99	32.49	46.48	103.50	57.02			

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

44.86

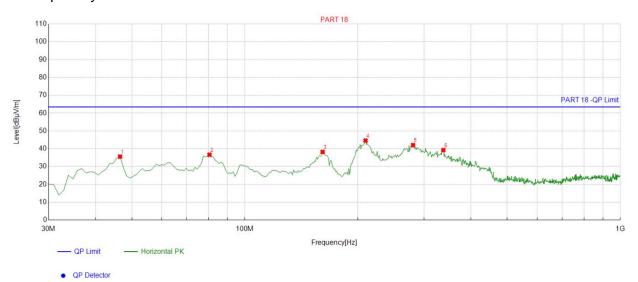
30.74

14.12

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For 30MHz-1GHz

Antenna polarity: H

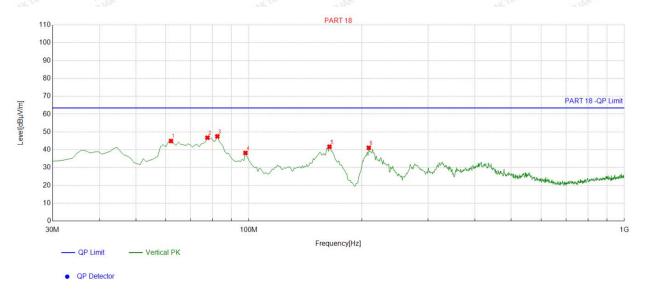


P.	Suspe	Suspected List									
<	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delerity	
		[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
3.	1	46.506507	-14.89	50.48	35.59	63.50	27.91	100	217	Horizontal	
Ī	2	80.49049	-17.44	54.08	36.64	63.50	26.86	100	343	Horizontal	
Ī	3	161.08108	-17.19	55.43	38.24	63.50	25.26	100	217	Horizontal	
	4	209.62963	-14.60	59.19	44.59	63.50	18.91	100	17	Horizontal	
200	5	280.51051	-12.62	54.68	42.06	63.50	21.44	100	343	Horizontal	
	6	337.79779	-11.41	50.69	39.28	63.50	24.22	100	162	Horizontal	

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

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Antenna polarity: V



Suspe	uspected List									
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	D 1 11	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	62.042042	-14.19	59.09	44.90	63.50	18.60	100	255	Vertical	
2	77.577578	-17.16	63.92	46.76	63.50	16.74	100	260	Vertical	
3	82.432432	-17.57	65.10	47.53	63.50	15.97	100	252	Vertical	
4	97.967968	-15.83	54.05	38.22	63.50	25.28	100	33	Vertical	
5	163.99399	-17.19	58.89	41.70	63.50	21.80	100	354	Vertical	
6	208.65865	-14.61	55.74	41.13	63.50	22.37	100	335	Vertical	

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level;

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5. Antenna Requirement

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is Coil Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

Antenna

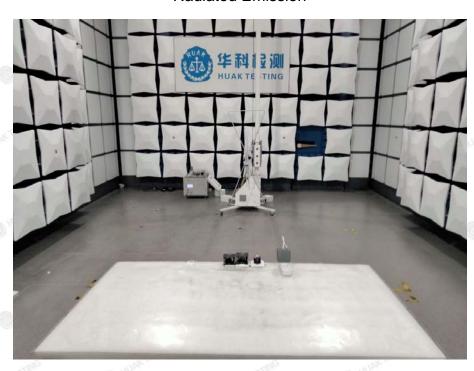


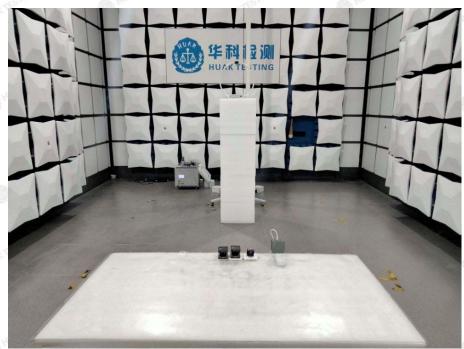
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6. Photographs of Test

Radiated Emission





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Conducted Emission



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7. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

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