

FCC Test Report

Report No.: AGC12971220705FE10

FCC ID : 2AJYRNM01317685

APPLICATION PURPOSE Original Equipment

PRODUCT DESIGNATION: Base Magnetic Charger

BRAND NAME : NOMAD

MODEL NAME : NM01317685, NM01318385

APPLICANT: Nomad Goods, Inc

DATE OF ISSUE : Aug. 29, 2022

STANDARD(S) : FCC Part 15 Subpart C

REPORT VERSION :

Attestation of Global Compliance (Shenzhen) Co., Ltd





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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Aug. 29, 2022	Valid	Initial Release



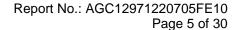
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1. GENERAL INFORMATION

Applicant	Nomad Goods, Inc	
Address	1187 Coast Village Rd., #638, Santa Barbara, CA 93108, United States	
Manufacturer	NuVolta Technologies (Heifei) Co., Ltd.	
Address	Room 605/606, No.2800, Building F-1, Innovation Industrial Park Phase 2, Innovation Avenue, High-tech Zone, Hefei, Anhui, PRC.	
Factory	HUIZHOU MIKI TECHNOLOGY CO., LTD.	
Address	2F, 1# Building MIKI Industrial Park, Guangtaibei Road 39, Huinan Hi-Tech Industrial Park, Huizhou, Guangdong.	
Product Designation	Base Magnetic Charger	
Brand Name	NOMAD	
Test Model	NM01317685	
Series Model	NM01318385	
Difference description	The main model is a black shell, the series model is a white shell, and the appearance color is different	
Deviation from Standard	No any deviation from the test method	
Date of Test	Aug. 10, 2022 to Aug. 29, 2022	
Test Result	Pass	
Test Report Form No	AGCTR-ER-FCC-WPTV1.0	

Prepared By	Bi bo zhay	
	Bibo Zhang (Project Engineer)	Aug. 29, 2022
Reviewed By	Calin Lin	
	Calvin Liu (Reviewer)	Aug. 29, 2022
Approved By	Max Zhang	
	Max Zhang (Authorized Officer)	Aug. 29, 2022

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



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2. PRODUCT INFORMATION

2.1 PRODUCT TECHNICAL DESCRIPTION

Hardware Version	T-NO5_20220629
Software Version	NU1708A2_Tx_JDM_T_NO5_MPA11_EPP_15W_0722
Operation Frequency	110.5KHz-205KHz
Modulation Type	FSK
Number of channels	1
Field Strength of Fundamental	69.85dBuV/m (Max)
Antenna Designation	Coil Antenna
Power Supply	DC 9V 2A
Wireless Charging Output Power	10W (9V/1.1A)
Wireless Charging Input Power	18W (9V/2A) (PD adapter)

2.2 TEST FREQUENCY LIST

Frequency Band	Channel Number	Frequency
110.5KHz-205KHz	01	143.8 KHz



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2.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for FCC ID: **2AJYRNM01317685**, filing to comply with Part 2, Part 15 of the Federal Communication Commission rules.

2.4 TEST METHODOLOGY

The tests were performed according to following standards:

No.	Identity	dentity Document Title	
1 FCC 47 CFR Part 2 Frequency allocations and radio treaty matters; general rules and reg		Frequency allocations and radio treaty matters; general rules and regulations	
2 FCC 47 CFR Part 15 Radio Frequency Devices		Radio Frequency Devices	
3 ANSI C63.10-2013 American National Standard for Testing Unlicensed Wireles		American National Standard for Testing Unlicensed Wireless Devices	

2.5 SPECIAL ACCESSORIES

Not available for this EUT intended for grant.

2.6 EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7 ANTENNA REQUIREMENT

Standard Requirement

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antennathat uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a brokenantenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The non-detachable antenna inside the device cannot be replaced by the user at will. The gain of the antenna is 0 dBi.



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3. TEST ENVIRONMENT

3.1 ADDRESS OF THE TEST LABORATORY

Laboratory: Attestation of Global Compliance (Shenzhen) Co., Ltd.

Address: 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

3.2 TEST FACILITY

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L5488

Attestation of Global Compliance (Shenzhen) Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5054.02

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 975832

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files with Registration 975832.

IC-Registration No.: 24842 (CAB identifier: CN0063)

Attestation of Global Compliance (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the Certification and Engineering Bureau of Industry Canada. The acceptance letter from the IC is maintained in our files with Registration 24842.



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3.3 ENVIRONMENTAL CONDITIONS

NORMAL CONDITIONS	EXTREME CONDITIONS
15 - 35	-20 - 50
20 % - 75 %	20 % - 75 %
86 - 106	86 - 106
	15 - 35 20 % - 75 % 86 - 106

Note: The Extreme Temperature and Extreme Voltages declared by the manufacturer.

3.4 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 150kHz	$U_c = \pm 4.2 \text{ dB}$
Uncertainty of Radiated Emission below 30MHz	$U_c = \pm 3.8 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	U _c = ±2 %
Uncertainty of Occupied Channel Bandwidth	U _c = ±2 %



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3.5 LIST OF EQUIPMENTS USED

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Mar. 28, 2022	Mar. 27, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test Software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A
TEST RECEIVER	R&S	ESCI	10096	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Aglient	N9010A	MY5347050 4	Nov. 17, 2021	Nov. 16, 2022
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Mar. 12, 2022	Mar. 11, 2024
ANTENNA	SCHWARZBECK	VULB9168	494	Jan. 08, 2021	Jan. 07, 2023
Test Software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A



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4.SYSTEM TEST CONFIGURATION

4.1 EUT CONFIGURATION

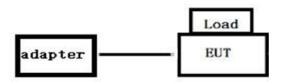
The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

4.2 EUT EXERCISE

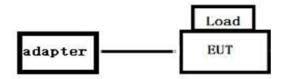
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

4.3 CONFIGURATION OF TESTED SYSTEM

Radiated Emission Configure:



Conducted Emission Configure:



4.4 EQUIPMENT USED IN TESTED SYSTEM

The Following Peripheral Devices And Interface Cables Were Connected During The Measurement: ☑ Test Accessories Come From The Laboratory

Item	Equipment	Model No.	Identifier	Note
2	Adapter	GYS-A5010S1	N/A	AE
3	Wireless charging load	N/A	N/A	AE

□ Test Accessories Come From The Manufacturer

Item	Equipment	Model No.	Identifier	Note
1	Base Magnetic Charger	NM01317685	FCC ID: 2AJYRNM01317685	EUT



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4.5 SUMMARY OF TEST RESULTS

Item	FCC Rules	Description Of Test	Result
1	§15.203	Antenna Equipment	Pass
2	§15.209(a)(f)	Radiated Spurious Emission	Pass
3	§15.215(c)	20dB Bandwidth	Pass
4	§15.205(a)	Restricted Bands of Operation	Pass
5	§15.207	AC Power Line Conducted Emission	Pass



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5. DESCRIPTION OF TEST MODES

Summary table of Test Cases				
	Equipment type / Modulation			
Test Item	WPT_(TX:143.8KHz)/ FSK			
Radiated&Conducted Test Cases	Mode 1: DUT + Wireless load (10W Full load mode) Mode 2: DUT + Wireless load (10W Half load mode) Mode 3: DUT + wireless load (Null Load mode)			
AC Conducted Emission	Mode 1: DUT + Wireless load (10W Full load mode) Mode 2: DUT + Wireless load (10W Half load mode) Mode 3: DUT + wireless load (Null Load mode)			

Note:

- 1. Only the result of the worst case was recorded in the report, if no other cases.
- 2. The battery is full-charged during the test.
- 3. For Radiated Emission, 3axis were chosen for testing for each applicable mode.



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6. FIELD STRENGTH OF FUNDAMENTAL

6.1 PROVISIONS APPLICABLE

Test Requirement:	FCC Part15 C Section 15.209							
Test Method:	ANSI C63.10:2013							
Test Frequency Range:	9kHz to 1GHz							
Test site:	Measurement Distance: 3m							
	Frequency	Detector	RBW	VBW	Value			
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak			
Receiver setup:	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak			
ixeceivei setup.	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak			
	Above 1CHz	Peak	1MHz	3MHz	Peak			
	Above 1GHz	Peak	1MHz	10Hz	Average			

Limits for frequency below 30MHz

Frequency	Limit (uV/m)	Measurement Distance(m)	Remark
0.009-0.490	2400/F(kHz)	300	Quasi-peak Value
0.490-1.705	24000/F(kHz)	30	Quasi-peak Value
1.705-30	30	30	Quasi-peak Value

Limits for frequency Above 30MHz

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.00	Quasi-peak Value
88MHz-216MHz	43.50	Quasi-peak Value
216MHz-960MHz	46.00	Quasi-peak Value
960MHz-1GHz	54.00	Quasi-peak Value
Above 1CLIz	54.00	Average Value
Above 1GHz	74.00	Peak Value

Remark:

- (1) Emission level dB μ V = 20 log Emission level μ V/m
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.



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6.2 MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.



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6.3 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any), Average Factor (optional) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CF - AG - AV

where $FS = Field Strength in dB\mu V/m$

RA = Receiver Amplitude (including preamplifier) in dBµV

CF = Cable Attenuation Factor in dB

AF = Antenna Factor in dB/m AG = Amplifier Gain in dB AV = Average Factor in dB

In the following table(s), the reading shown on the data table reflects the preamplifier gain. An example for the calculations in the following table is as follows:

FS = RR + LF where FS = Field Strength in $dB\mu V/m$ RR = RA - AG - AV in $dB\mu V$ LF = CF + AF in dB

Assume a receiver reading of 52.0 dB μ V is obtained. The antenna factor of 7.4 dB/m and cable factor of 1.6 dB are added. The amplifier gain of 29 dB and average factor of 5 dB are subtracted, giving a field strength of 27 dB μ V/m.

This value in dBµV/m was converted to its corresponding level in µV/m.

 $RA = 52.0 dB\mu V/m$

AF = 7.4 dB/m $RR = 18.0 \text{ dB}\mu\text{V}$ CF = 1.6 dB LF = 9.0 dB

AG = 29.0 dBAV = 5.0 dB

FS = RR + LF

 $FS = 18 + 9 = 27 dB\mu V/m$

Level in μ V/m = Common Antilogarithm [(27 dB μ V/m)/20] = 22.4 μ V/m

Magnetic field strength calculation (9 kHz – 30 MHz)

When the limit is in terms of magnetic field, the following equation applies:

 $H[dB(\mu A/m)] = V[dB(\mu V)] + LC[dB] - GPA[dB] + AFH[dB(S/m)]$

Where,

H is the magnetic field strength (to be compared with the limit),

V is the voltage level measured by the receiver or spectrum analyzer,

LC is the cable loss,

GPA is the gain of the preamplifier (if used), and

AFH is the magnetic antenna factor.

If the "electrical" antenna factor is used instead, the above equation becomes:

 $H[dB(\mu A/m)] = V[dB(\mu V)] + LC[dB] - GPA[dB] + AFE[dB(m-1)] - 51.5[dB\Omega]$

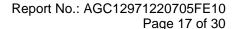
where AFE is the "electric" antenna factor, as provided by the antenna calibration laboratory.

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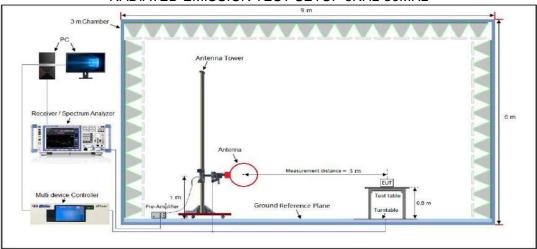
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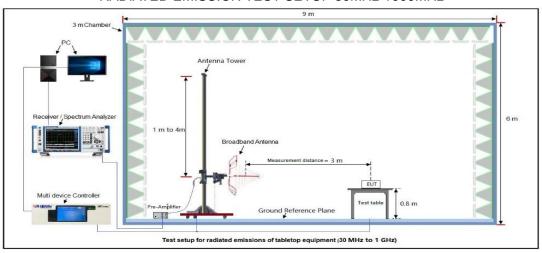


6.4 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

RADIATED EMISSION TEST SETUP 9KHz-30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



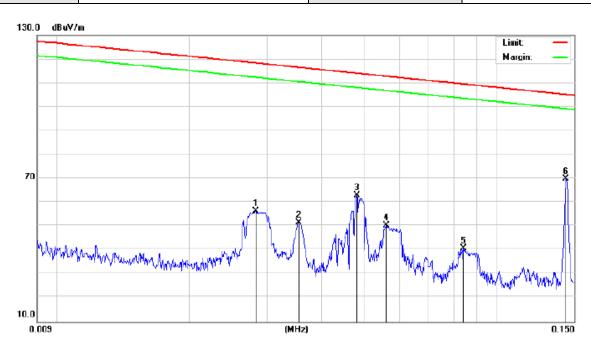
The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.



6.5 MEASUREMENT RESULTS

ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 9KHz-150KHz

		•	
EUT	Base Magnetic Charger	Model Name	NM01317685
Temperature	22° C	Relative Humidity	55%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Face



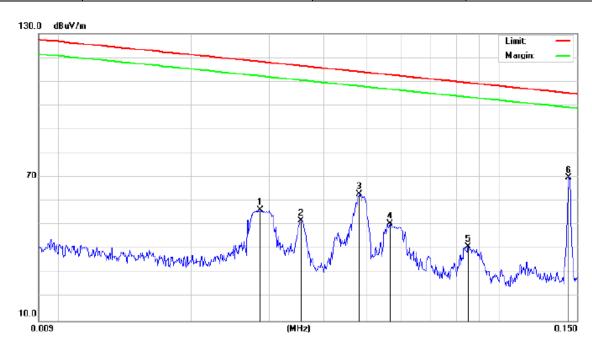
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.0282	29.46	26.98	56.44	118.3	-61.88	peak
2	0.0354	25.22	26.44	51.66	116.4	-64.82	peak
3	0.0480	37.44	25.50	62.94	114.0	-51.08	peak
4	0.0560	25.32	24.91	50.23	112.7	-62.54	peak
5	0.0840	17.98	22.81	40.79	109.4	-68.70	peak
6 *	0.1438	48.31	21.54	69.85	105.1	-35.29	peak

RESULT: PASS



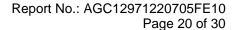
ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 9KHz-150KHz

EUT	Base Magnetic Charger	Model Name	NM01317685
Temperature	22° C	Relative Humidity	55%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Side



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.0286	29.32	26.95	56.27	118.2	-61.94	peak
2	0.0354	25.32	26.44	51.76	116.4	-64.72	peak
3	0.0480	37.39	25.50	62.89	114.0	-51.13	peak
4	0.0565	25.79	24.87	50.66	112.7	-62.04	peak
5	0.0850	18.32	22.74	41.06	109.3	-68.33	peak
6 *	0.1438	48.27	21.54	69.81	105.1	-35.33	peak

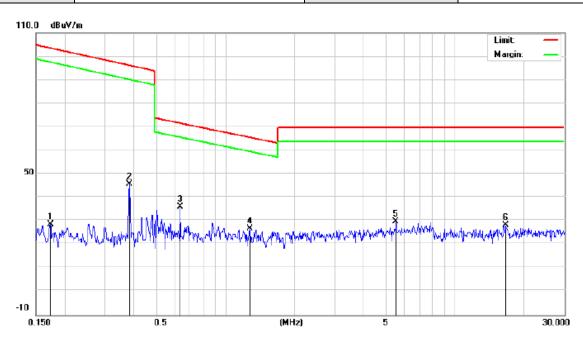
RESULT: PASS





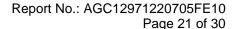
ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 150KHz-30MHz

EUT	Base Magnetic Charger	Model Name	NM01317685
Temperature	22° C	Relative Humidity	55%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Face



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.1731	7.14	21.48	28.62	103.4	-74.84	peak
2	0.3810	24.60	21.10	45.70	96.14	-50.44	peak
3 *	0.6371	15.04	20.99	36.03	71.52	-35.49	peak
4	1.2756	5.33	21.52	26.85	65.49	-38.64	peak
5	5.5346	6.71	23.17	29.88	69.54	-39.66	peak
6	16.6612	3.23	24.87	28.10	69.54	-41.44	peak

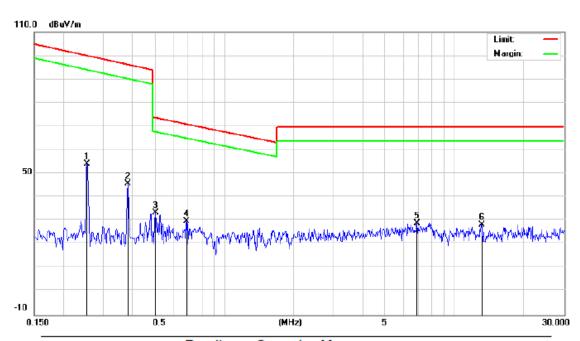
RESULT: PASS





ELECTRIC FIELD TEST IN THE FREQUENCY RANGE 150KHz-30MHz

EUT	Base Magnetic Charger	Model Name	NM01317685
Temperature	22° C	Relative Humidity	55%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Side



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	0.2535	32.62	21.34	53.96	99.92	-45.96	peak
2	0.3811	24.64	21.10	45.74	96.13	-50.39	peak
3 *	0.5047	12.35	20.88	33.23	73.54	-40.31	peak
4	0.6863	8.60	21.03	29.63	70.87	-41.24	peak
5	6.8776	5.47	23.53	29.00	69.54	-40.54	peak
6	13.1269	3.73	24.61	28.34	69.54	-41.20	peak

RESULT: PASS

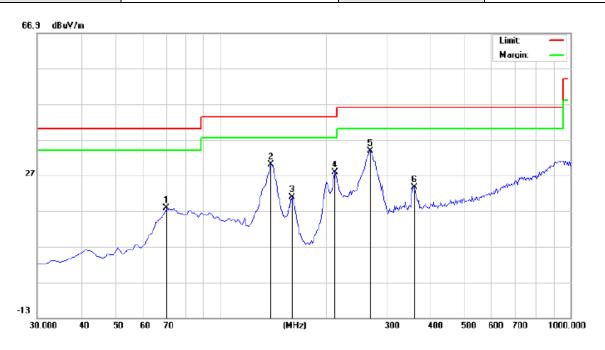
NOTES:

- 1. Quasi-Peak detector is used for frequency below 30MHz.
- 2. Negative value in the margin column shows emission below limit.
- 3. All measurements were made with 0.6m loop antenna at 3m distance. All emissions are below the QP limit.
- 4. Corr. Factor= Antenna Factor (dB/m) + Cable Loss (dB)
- 5. Loop antenna is used for the emission under 30MHz.



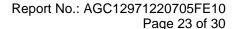
RADIATED EMISSION BELOW 1GHz

	10 (50 (125 2000001)		
EUT	Base Magnetic Charger	Model Name	NM01317685
Temperature	22° C	Relative Humidity	55%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		70.4167	-1.25	19.02	17.77	40.00	-22.23	peak
2		139.9333	23.34	6.66	30.00	43.50	-13.50	peak
3		160.9500	12.73	8.13	20.86	43.50	-22.64	peak
4		212.6833	13.79	13.98	27.77	43.50	-15.73	peak
5	*	269.2667	14.27	19.53	33.80	46.00	-12.20	peak
6		358.1833	6.78	16.91	23.69	46.00	-22.31	peak

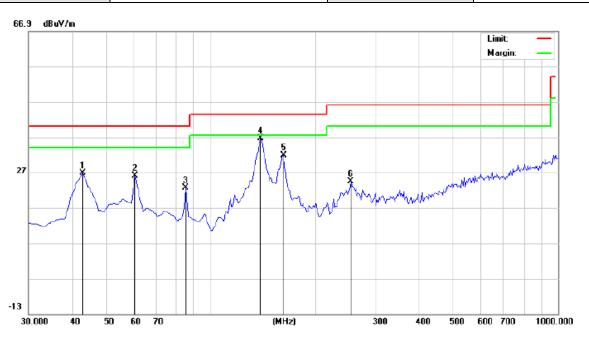
RESULT: PASS





RADIATED EMISSION BELOW 1GHz

	10.120.1122 2001011 2		
EUT	Base Magnetic Charger	Model Name	NM01317685
Temperature	22° C	Relative Humidity	55%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	Mode 2	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		42.9333	11.25	15.59	26.84	40.00	-13.16	peak
2		60.7167	8.04	17.89	25.93	40.00	-14.07	peak
3		84.9666	6.72	15.96	22.68	40.00	-17.32	peak
4	*	139.9333	12.33	24.21	36.54	43.50	-6.96	peak
5		162.5667	14.59	17.31	31.90	43.50	-11.60	peak
6		254.7167	4.99	19.40	24.39	46.00	-21.61	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Over=Measurement-Limit.

- 2. All test modes had been pre-tested. The mode 2 is the worst case and recorded in the report.
- 3. The "Factor" value can be calculated automatically by software of measurement system.



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7. 20 dB BANDWIDTH

7.1 PROVISIONS APPLICABLE

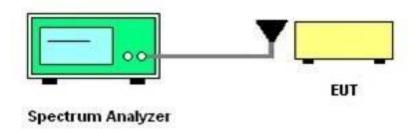
N/A

7.2 MEASUREMENT PROCEDURE

Set the parameters of SPA as below:

- 1. The spectrum analyzer connected via a receive antenna placed near the EUT in peak Max hold mode.
- 2. Centre frequency = Operation Frequency
- 3. The resolution bandwidth of 300 Hz and the video bandwidth of 1 kHz were used.
- 4. Span: 3kHz, Sweep time: Auto
- 5. Set the EUT to continue transmitting mode. Allow the trace to stabilize. Use the "N dB down" function of SPA to define the bandwidth.
- 6. Measured the spectrum width with power higher than 20dB below carrier.
- 7. Measured the 99% OBW.
- 8. Record the plots and Reported.

7.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





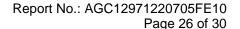
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7.4 MEASUREMENT RESULTS

	Tes	t Data of Occupied Bandwi	dth and -20dB Bandwid	ith	
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (kHz)	-20dB Bandwidth (kHz)	Limits (MHz)	Pass or Fail
FSK	0.1438	0.835	0.950	N/A	Pass

Test Graphs of Occupied Bandwidth &-20dB Bandwidth







8. AC POWER LINE CONDUCTED EMISSION TEST

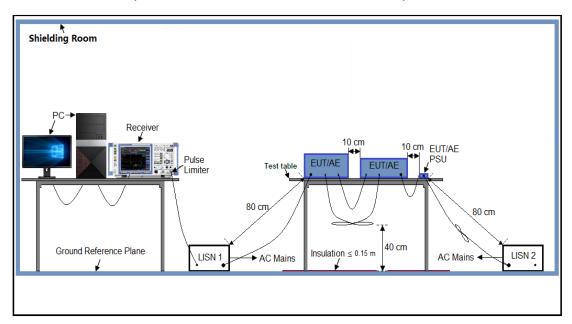
8.1 LIMITS OF LINE CONDUCTED EMISSION TEST

Francis	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.

8.2 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





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8.3 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 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.

8.4 FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 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.

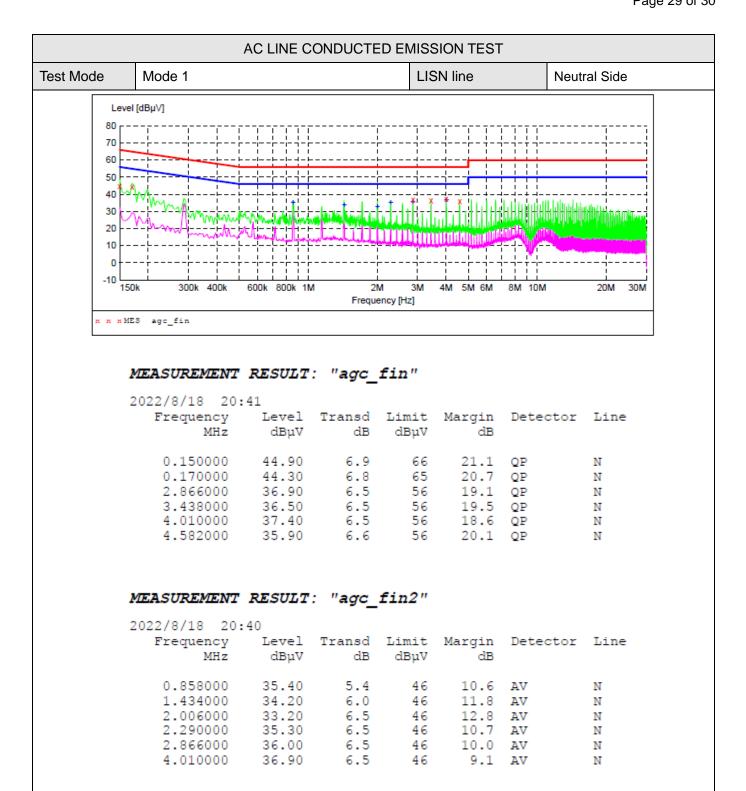


8.5 MEASUREMENT RESULTS

		AC LINE C	ONDUCTE	ED EMISS	SION TEST	Г	
st Mode	Mode 1			LIS	SN line	Ho	t Side
Lev	el [dBµV]						
80 F							
70							
60				<u></u>		1 1 1 1	
50 -	Δ						
30 🗸	TALLEY MANAGEMENT		أحواج للجميعات	┝╌╪╌┪╻┋	╌┸╌┸╫┟╟╽	k la la la di	
20	A NAME OF THE PARTY OF THE PART				Hillion Albandalla Distribution della		down the Hill Hill man
10 -			A CONTRACTOR OF THE PERSON NAMED IN		TITETH THE PARTY NAMED IN		
-10						i- i- i-i 	
15	50k 300k 400k	600k 800k 1N	_		4M 5M 6M	8M 10M	20M 30M
	4ES agc_fin		rreque	ency [Hz]			
	#gc_11						
	MEASUREMENT 2022/8/18 20: Frequency	38	-		Margin	Detecto	r Line
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000	38	Transd dB		Margin dB 20.5 20.7 19.7 18.9 19.5 18.7	QP QP QP QP	r Line L1 L1 L1 L1 L1 L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000	38 Level dBμV 45.50 44.90 45.30 37.10 36.50 37.30	Transd dB 6.9 6.8 6.5 6.5	Limit dBµV 66 66 65 56 56	dB 20.5 20.7 19.7 18.9 19.5	QP QP QP QP QP	L1 L1 L1 L1 L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000 MEASUREMENT 2022/8/18 20:	38 Level dBμV 45.50 44.90 45.30 37.10 36.50 37.30 RESULT:	Transd dB 6.9 6.8 6.5 6.5 6.5	Limit dBµV 66 66 65 56 56 56	dB 20.5 20.7 19.7 18.9 19.5 18.7	QP QP QP QP QP	L1 L1 L1 L1 L1 L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000	38 Level dBμV 45.50 44.90 45.30 37.10 36.50 37.30 RESULT:	Transd dB 6.9 6.8 6.5 6.5 6.5	Limit dBµV 66 66 65 56 56 56	dB 20.5 20.7 19.7 18.9 19.5 18.7	QP QP QP QP QP	L1 L1 L1 L1 L1 L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000 MEASUREMENT 2022/8/18 20: Frequency MHz	38 Level dBµV 45.50 44.90 45.30 37.10 36.50 37.30 RESULT: 37 Level dBµV	Transd dB 6.9 6.8 6.5 6.5 6.5 6.5	Limit dBµV 66 65 56 56 56 fin2" Limit dBµV	dB 20.5 20.7 19.7 18.9 19.5 18.7	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000 MEASUREMENT 2022/8/18 20: Frequency MHz 0.858000	38 Level dBµV 45.50 44.90 45.30 37.10 36.50 37.30 RESULT: 37 Level dBµV 35.20	Transd dB 6.9 6.8 6.5 6.5 6.5 6.5 6.5 5.4	Limit dBµV 66 65 56 56 56 56 40 Limit dBµV	dB 20.5 20.7 19.7 18.9 19.5 18.7	QP QP QP QP QP QP	L1 L1 L1 L1 L1 L1 L1 L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000 MEASUREMENT 2022/8/18 20: Frequency MHz 0.858000 1.434000 2.294000	38 Level dBµV 45.50 44.90 45.30 37.10 36.50 37.30 RESULT: 37 Level dBµV 35.20 34.20	Transd dB 6.9 6.8 6.5 6.5 6.5 6.5 6.5 6.5 dB 5.4 6.0 6.5	Limit dBµV 66 65 56 56 56 56 46 46 46	dB 20.5 20.7 19.7 18.9 19.5 18.7 Margin dB 10.8 11.8 12.3	QP QP QP QP QP QP AV AV	L1
	2022/8/18 20: Frequency MHz 0.150000 0.158000 0.170000 2.866000 3.438000 4.010000 MEASUREMENT 2022/8/18 20: Frequency MHz 0.858000 1.434000	38 Level dBµV 45.50 44.90 45.30 37.10 36.50 37.30 RESULT: 37 Level dBµV 35.20 34.20 33.70 36.40	Transd dB 6.9 6.8 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5	Limit dBµV 66 65 56 56 56 56 46 46	dB 20.5 20.7 19.7 18.9 19.5 18.7 Margin dB 10.8 11.8	QP QP QP QP QP QP AV AV AV	L1 L1 L1 L1 L1 L1 L1 L1 L1

RESULT: PASS





RESULT: PASS



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APPENDIX I: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC12971220705AP02

APPENDIX II: PHOTOGRAPHS OF TEST EUT

Refer to the Report No.: AGC12971220705AP03

----END OF REPORT----



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