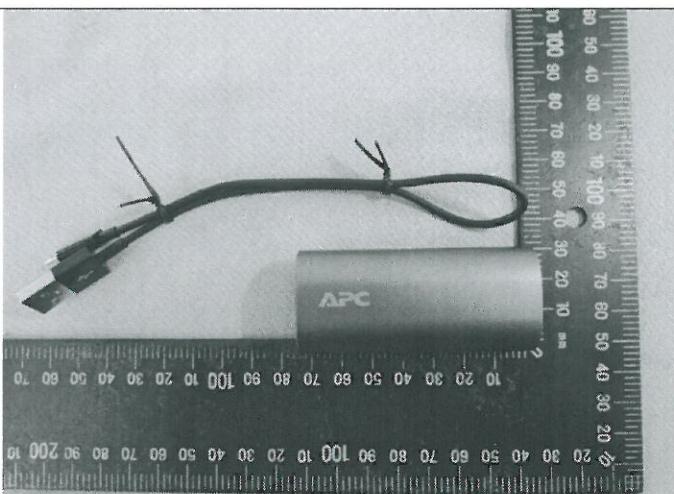
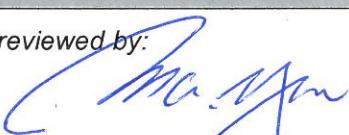


Prüfbericht-Nr.: Test Report No.:	10050332 001	Auftrags-Nr.: Order No.:	114032867	Seite 1 von 32 Page 1 of 32	
Kunden-Referenz-Nr.: Client Reference No.:	385686	Auftragsdatum: Order date.:	10 Feb. 2015		
Auftraggeber: Client:	American Power Conversion Holding Inc., Taiwan Branch 3F., No. 205, Sec. 3, Beixin Rd., 231 Xindian Dist. New Taipei City, Taiwan, R.O.C.				
Prüfgegenstand: Test item:	Power Bank				
Bezeichnung / Typ-Nr.: Identification / Type No.:	M3XXXXYY (XXX, YY = A-Z, “-“ or Blank)				
Auftrags-Inhalt: Order content:	TUV Rheinland - EMC service				
Prüfgrundlage: Test specification:	EN 55022: 2010 EN 55024: 2010 AS/NZS CISPR 22: 2009+ A1 (2010)				
Wareneingangsdatum: Date of receipt:	10 Feb. 2015				
Prüfmuster-Nr.: Test sample No.:	A000165873-001 A000165873-002				
Prüfzeitraum: Testing period:	Refer to test report				
Ort der Prüfung: Place of testing:	TÜV Rheinland Taiwan Ltd.				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland Taiwan Ltd. Taichung Branch Office				
Prüfergebnis*: Test result*:	Pass				
geprüft von / tested by: 	kontrolliert von / reviewed by: 				
09 Apr. 2015 Webber C. C. Chung / Senior Project Engineer	09 Apr. 2015 Max Y. C. Yao / Department Manager				
Datum Date	Name/Stellung Name/Position	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Unterschrift Signature
Sonstiges / Other:					
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:			Prüfmuster vollständig und unbeschädigt Test item complete and undamaged		
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(fail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(fail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

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1 Test Site

Laboratory:

TUV Rheinland Taiwan Ltd. Taichung Branch Office
No.9, Lane 36, Minsheng Rd., Sec. 3, Daya District, Taichung City 428, Taiwan, R.O.C.

Test Facility:

TÜV Rheinland Taiwan Ltd.
11F., No.758, Sec. 4, Bade Rd., Songshan Dist., Taipei City 105, Taiwan, R.O.C.

1.1 Measurement Uncertainty

Testing Item	Frequency Range	Uncertainty
Conducted Emission (Shielding Room)	150 kHz – 30 MHz	2.47 dB
Radiated Emission (966 Chamber: 3m)	30 MHz – 1000 MHz	2.80 dB
Radiated Emission (10m OATS: 10m)	30 MHz – 1000 MHz	2.80 dB
Radiated Emission (966 Chamber: 3m)	Above 1 GHz	3.04 dB

Note:

The uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2 Description of the Test Sample

2.1 General Description of Equipment

The tested sample is a “**Power Bank**” with type designation as described on the cover page for new approval. The tested sample is a portable power pack device with internal Li-ion batteries provides a charging source for you daily used mobile devices such as smart-phones, tablet devices, digital cameras, and other gadgets that can be charged with standard USB DC 5V power.

The suffix “XXX” is for indicate product color, no technical difference, “YYY” is for marketing purpose only.

Definition of variable(s):

Variable:	Range of variable:	Content:
XXX	A-Z, “-“ or Blank	Indicate product color, no technical difference.
YYY	A-Z, “-“ or Blank	For marketing purpose only

2.2 Rating and Physical Characteristics

Type Designation: M3XXXYYY

Input rating: DC 5V, 1.0A

Output rating: DC 5V, 1.0A

Safety Protection Class: Class III

Battery Cell LG/ LGABD11865

2.3 Sources of Interference

- 1) Circuits design
- 2) IC circuits

2.4 Noise Suppression Parts

Please refer to Attachment Photo Documentation for details.

2.5 Submitted Documents

- 1) User’s Manual
- 2) Circuit Diagram
- 3) Block Diagram
- 4) Rating Label

3 Measurement Conditions

3.1 Modes of Operation

The tested sample was connected to a USB power adapter for charge mode and connected to a load (5Ω) for discharge mode for EMI and EMS tests as described in this report.

The pre-test mode for EMI test listed in this report:

- A. Discharge Mode
- B. Charge Mode
- C. Discharge + Charge Mode

The final-test mode for EMI test listed in this report:

- A. Discharge Mode

The mode for EMS test listed in this report:

- A. Discharge Mode
- B. Charge Mode
- C. Discharge + Charge Mode

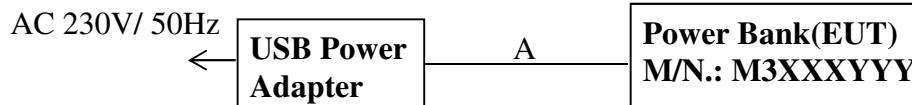
3.2 Additional Equipment

The subject sample was tested as an independent unit with the following equipment:

No.	Description	Manufacturer	Model No.	Serial No.
1	USB Power Adapter	Apple	A1401	0012ADU00
2	Load (Resistance)	N/A	N/A	N/A

3.3 Test Setup

The test setup was realized on a table of 10-cm or 80-cm height during all tests as described herein.
Charge Mode:



Discharge Mode:



Discharge + Charge Mode



Cable description:

Signal Cable Type		Signal Cable Description
A	USB Cable	Shielded, 0.5m
B	USB Cable	Shielded, 0.5m

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3.4 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

For EMI/Radiation Measurement (Taipei: Semi-Anechoic Chamber)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Due Date
1	Test Receiver	Rohde & Schwarz	ESR7	101062	2015/08/30
2	Spectrum Analyzer	Rohde & Schwarz	FSV-40	1000921	2015/12/16
3	Pre-Amplifier	HP	8447F	2805A03335	2015/08/22
4	Bilog Antenna	TESEQ	CBL6111D	29802	2015/07/04

For EMS/ESD Test (Taipei: Shield Room)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Due Date
1	ESD Generator	TESEQ	NSG437	372	2015/08/13

For EMS/PFMF Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Due Date
1	EFT/Surge/PFMF/DIP Generator	EMC-PARTNER	TRA-2006 F-S-T-D-R	1150	2015/10/06
2	Capacitive Coupling Clamp	EMC-PARTNER	CN-EFT1000	691	2015/12/18
3	Telecommunication Signal Coupler	EMC-PARTNER	CDN-UTP8	47	2016/07/16
4	Loop Antenna	EMC-PARTNER	MF-1000-1	191	2015/08/26
5	RMS Clamp Multimeter	Chauvin Amoux	F15	N100866JAV	2015/08/27

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For EMS/RF Field Strength Susceptibility Test (Taipei: Fully-Anechoic Chamber)

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Due Date
1	Signal Generator	Rohde & Schwarz	SMB-100A	104167	2015/08/14
2	Amplifier (20-1GHz)	FRANKONIA	FLH-200B	1088	N.C.R.
3	Amplifier (1-6GHz)	Bonn	BLMA1060-50D	108052	N.C.R.
4	Broadband Antenna (30M-3GHz)	FRANKONIA	BTA-M	08009	N.C.R.
5	Horn Antenna (0.7-10.5GHz)	FRANKONIA	MAX-9	MAX-9-801	N.C.R.
6	Power Meter	FRANKONIA	PMS_1084	108B1251	2015/08/15
7	2 Directional Coupler	AR	DC6180A	334572	N.C.R.
8	Relay Switching Unit	FRANKONIA	RSU1203	113B1224	N.C.R.

3.5 Abbreviations

PASS	means 'complied with requirement'	N/A	means 'not applicable'
FAIL	means 'not complied'	N.C.R.	means 'no calibration required'

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4 Test Results EMISSION

Result:	PASS
----------------	------

4.1 Continuous Interference

4.1.1 Conducted Emission (AC Mains)

Port: AC Mains
Basic Standard: EN55022, Clause 5.1
Frequency Range: 0.15 - 30 MHz
Limits: Table 2, Class B

Result:	N/A
----------------	-----

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

4.1.2 Conducted Emission (Telecommunication Ports)

Port: Telecommunication Ports
Basic Standard: EN 55022, Clause 5.2
Frequency Range: 0.15 - 30 MHz
Limits: Telecommunication Terminal, Table 4, Class B

Result:	N/A
----------------	-----

Note: There is no any telecommunication port on subject sample. Therefore, this test is not applicable.

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4.1.3 Radiated Emission (Below 1GHz)

Port: Enclosure
Basic Standard: EN 55022, Clause 6
Frequency Range: 30 - 1000 MHz
Limits: Table 6, Class B (at 3m distance)

Result:	PASS
----------------	-------------

Test Setup

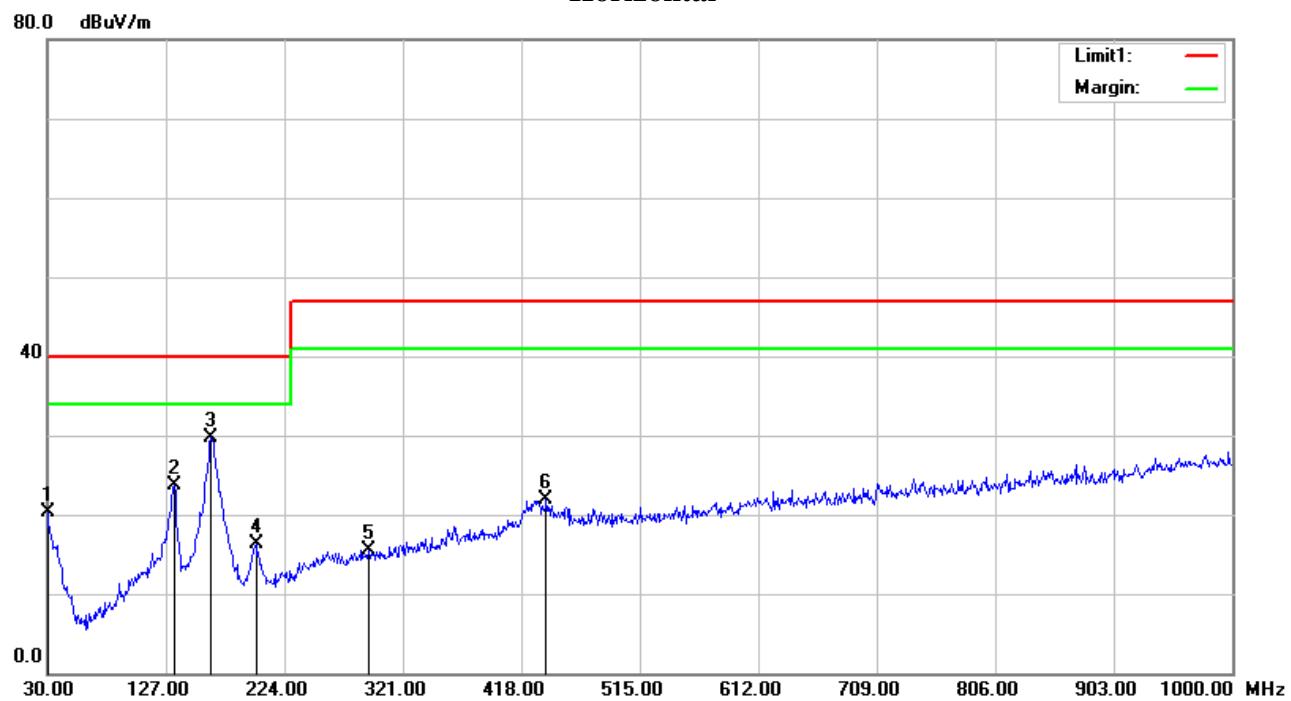
Date of Test: 24 Feb. 2015
Input Voltage: DC 5V
Output Voltage: DC 5V
Operational Mode: See 3.1
Earthing: Class III
Temperature: 18 °C
Relative Humidity: 52 %

Table 2: Radiated Emission; 30 - 1000 MHz Settings

Frequency		Settings	
Start	Stop	IF Bandwidth	Detector
30 MHz	1 GHz	120 kHz	QP

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Figure 1: Radiated Emission, 30 - 1000 MHz
Discharge Mode
Horizontal


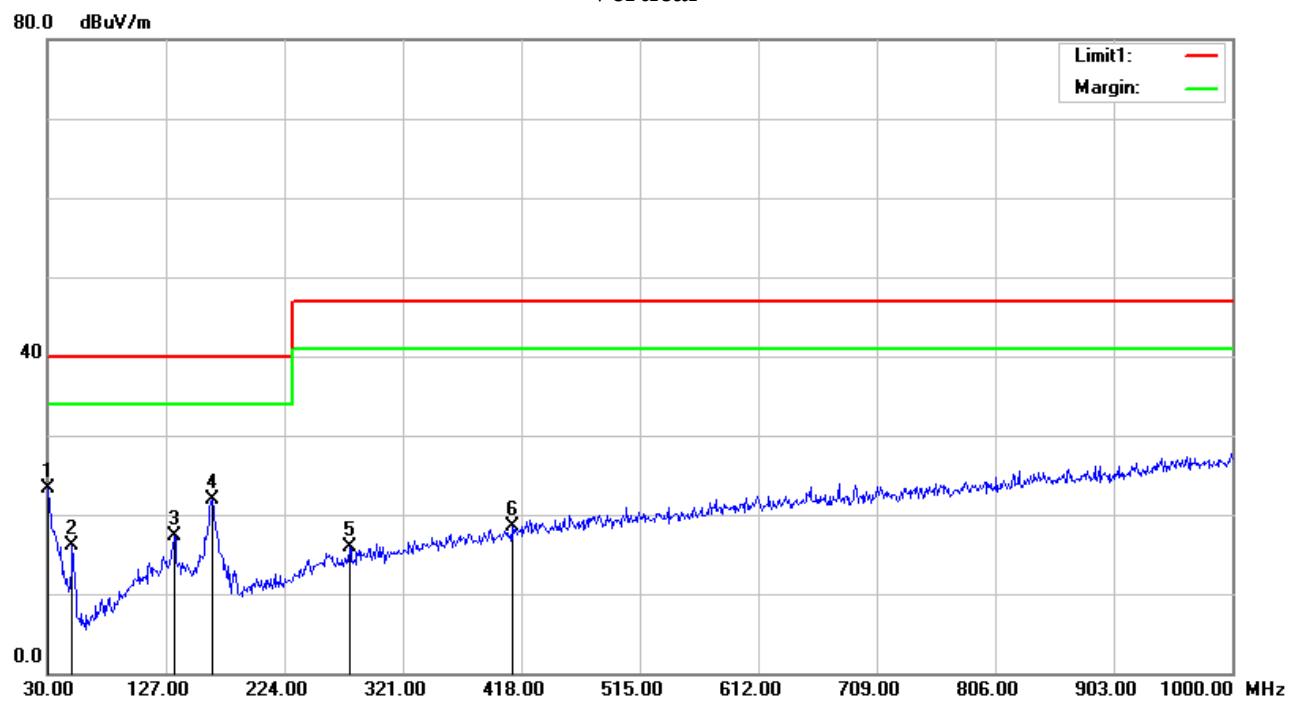
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	30.0000	-5.86	26.18	20.32	40.00	-19.68	QP	200	84	P	
2	133.7900	-12.65	36.34	23.69	40.00	-16.31	QP	200	158	P	
3	163.8600	-14.21	43.93	29.72	40.00	-10.28	QP	200	179	P	
4	200.7200	-14.69	31.09	16.40	40.00	-23.60	QP	100	192	P	
5	292.8700	-10.60	26.16	15.56	47.00	-31.44	QP	400	341	P	
6	438.3700	-8.21	30.13	21.92	47.00	-25.08	QP	100	130	P	

Note: Level = Reading + Factor

Margin = Level - Limit

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Discharge Mode
Vertical


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F	Remark
1	30.0000	-5.86	29.09	23.23	40.00	-16.77	QP	100	360	P	
2	50.3700	-17.23	33.39	16.16	40.00	-23.84	QP	100	304	P	
3	133.7900	-12.65	30.01	17.36	40.00	-22.64	QP	300	102	P	
4	164.8300	-14.30	36.24	21.94	40.00	-18.06	QP	300	259	P	
5	277.3500	-11.16	27.00	15.84	47.00	-31.16	QP	300	360	P	
6	410.2400	-8.58	27.11	18.53	47.00	-28.47	QP	200	0	P	

Note: Level = Reading + Factor

Margin = Level - Limit

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4.1.4 Radiated Emission (Above 1GHz)

Port: Enclosure
Basic Standard: EN 55022, Clause 6
Frequency Range: 1 - 6 GHz
Limits: Table 8, Class B (at 3m distance)

Result:

N/A

The highest internal source of an EUT is defined as the highest frequency generated or used within the EUT or on which the EUT operates or tunes.

- highest frequency is less than 108MHz, measurement shall only be made up to 1GHz
- highest frequency is between 108 & 500MHz, measurement shall only be made up to 2GHz
- highest frequency is between 500 & 1GHz, measurement shall only be made up to 5GHz
- highest frequency is above 1GHz, measurement shall be made up to 5 times the highest frequency or 6GHz, whichever is less.

Note: The highest frequency is 1.265MHz. It was measured up to 1GHz as described in this test report.

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4.2 Disturbances in Supply Systems

4.2.1 Harmonics

Port: AC Mains
Basic Standard: IEC/EN 61000-3-2
Limits: EN 61000-3-2, Clause 7

Result:	N/A
----------------	-----

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

4.2.2 Voltage Fluctuations

Port: AC Mains
Basic Standard: IEC/EN 61000-3-3
Limits: EN 61000-3-3, Clause 5

Result:	N/A
----------------	-----

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

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5 Test Results IMMUNITY

Result:	PASS
---------	------

5.1 Enclosure Port

5.1.1 Radio-Frequency Electromagnetic Field

Port: Enclosure
Basic Standard: IEC/EN 61000-4-3
Performance Criteria: A
Test Specification: EN 55024
Frequency Range & Field Strength: 80 - 1000 MHz, 3V/m
Modulation: AM 80%, 1kHz Sine Wave

Result:	PASS
---------	------

Test Setup

Date of Test: 24 Feb. 2015
Input Voltage: DC 5V
Output Voltage: DC 5V
Operational Mode: See 3.1
Earthing: Class III
Temperature: 23.1 °C
Relative Humidity: 49 %

Table 3: Radio-Frequency Electromagnetic Field; 80 - 1000 MHz Settings

Frequency			Settings			
Start	Stop	Step Size	Field Strength	Sweep mode	Meas. Time	Modulation
80 MHz	1000 MHz	1% of preceding frequency	3V/m	auto	3 Sec	AM 80 %, 1 kHz

Note: No abnormalities were observed during and after the tests.

5.1.2 Electrostatic Discharge

Port: Enclosure
 Basic Standard: IEC/EN 61000-4-2
 Performance Criteria: B
 Test Specification: EN 55024
 Voltage: 8 kV (Air Discharge)
 4 kV (Contact Discharge)
 H.C.P. and V.C.P.

Result:	PASS
----------------	-------------

Test Setup

Date of Test: 25 Feb. 2015
 Input Voltage: DC 5V
 Output Voltage: DC 5V
 Operational Mode: See 3.1
 Earthing: Class III
 Temperature: 22.1 °C
 Relative Humidity: 49 %

Table 4: Electrostatic Discharge

Test point	Polarity	No. of Discharges	Observation	Result
H.C.P. (Contact Discharge)	+/-2, 4 kV	50	Normal Function	PASS
V.C.P. (Contact Discharge)	+/-2, 4 kV	50	Normal Function	PASS
Point 1 (Contact Discharge)	+/-2, 4 kV	20	Normal Function	PASS

Note 1: No abnormalities were observed during and after the tests.

Note 2: The testing was performed by air and contact method but there was no discharge to the EUT except for points in the table shown above.

Note 3: The total contact discharges were 200 times.

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Test Points:



5.1.3 Power Frequency Magnetic Field Immunity

Port: Enclosure
Basic Standard: IEC/EN 61000-4-8
Performance Criteria: A
Test Specification: EN 55024
Frequency: 50Hz and 60Hz
Magnetic Field Strength: 1 A/m

Result:	PASS
----------------	-------------

Test Setup

Date of Test: 24 Feb. 2015
Input Voltage: DC 5V
Output Voltage: DC 5V
Operational Mode: See 3.1
Earthing: Class III
Temperature: 23.1 °C
Relative Humidity: 49 %

Table 5: Power Frequency Magnetic Field

Test point	Test Frequency	Test level	Compliance level
X axis	50Hz/ 60Hz	1A/m	1A/m
Y axis	50Hz/ 60Hz	1A/m	1A/m
Z axis	50Hz/ 60Hz	1A/m	1A/m

Note: No abnormalities were observed during and after the tests.

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5.2 Input and Output AC Power Ports

5.2.1 Conducted Disturbances

Port: AC Mains
Basic Standard: IEC/EN 61000-4-6
Performance Criteria: A
Test Specification: EN 55024
Frequency Range: 0.15 - 80 MHz
Voltage Level: 3 Vrms (Unmodulated)
AM 80%, 1kHz Sine Wave

Result:	N/A
----------------	-----

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

5.2.2 Fast Transients Common Mode

Port: AC Mains
Basic Standard: IEC/EN 61000-4-4
Performance Criteria: B
Test Specification: EN 55024
Peak Voltage: 1.0 kV
Tr/Th: 5/ 50ns
Rep. Frequency: 5 kHz

Result:	N/A
----------------	-----

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

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5.2.3 Surges

Port:	AC Mains
Basic Standard:	IEC/EN 61000-4-5
Performance Criteria:	B
Test Specification:	EN 55024
Peak Voltage:	1 kV for Differential Mode 2 kV for Common Mode
Tr/Th:	1,2/ 50µs (8/ 20µs)

Result:

N/A

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

5.2.4 Voltage Dips and Interruptions

Port:	AC Mains
Basic Standard:	IEC/EN 61000-4-11
Performance Criteria:	B (for >95%, 0.5 Period) C (for 30 %, 25 Periods) C (for >95%, 250 Periods)
Test Specification:	EN 55024
Test Level:	>95% UT for Voltage Reductions, 0.5 Periods 30% UT for Voltage Reductions, 25 Periods >95% UT for Voltage Reductions, 250 Periods

Result:

N/A

Note: The subject sample is not intended to be connected to AC mains supply. Therefore, this test is not applicable.

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5.3 Signal and Telecommunication Ports

5.3.1 Fast Transients Common Mode

Port:	Signal / Telecommunication Ports
Basic Standard:	IEC/EN 61000-4-4
Performance Criteria:	B
Test Specification:	EN 55024
Peak Voltage:	0.5kV
Tr/Th:	5/ 50ns
Rep. Frequency:	5 kHz

Result:	N/A
----------------	-----

Note: The signal line and control line on subject sample is not great than 3m. Therefore, this test is not applicable.

5.3.2 Surges

Port:	Signal / Telecommunication Ports
Basic Standard:	IEC/EN 61000-4-5
Performance Criteria:	C
Test Specification:	EN 55024
Peak Voltage:	4 kV (Primary Protection) or 1 kV (Without Primary Protection)
Tr/Th:	10/ 700μs

Result:	N/A
----------------	-----

Note: There are no ports which may connect directly to outdoor cables on subject sample. Therefore, this test is not applicable.

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5.3.3 Conducted Disturbances

Port: Signal / Telecommunication Ports
Basic Standard: IEC/EN 61000-4-6
Performance Criteria: A
Test Specification:
Frequency Range: 0.15 - 80 MHz
Voltage Level 3 Vrms (Unmodulated)
AM 80%, 1kHz Sine Wave

Result:	N/A
----------------	-----

Note: The signal line and control line on subject sample is not great than 3m. Therefore, this test is not applicable.

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5.4 Input DC Power Ports

5.4.1 Fast Transients Common Mode

Port:	Input DC Ports	
Basic Standard:	IEC/EN 61000-4-4	
Performance Criteria:	B	
Test Specification:	EN 55024	
	Peak Voltage:	0.5kV
	Tr/Th:	5/ 50ns
	Rep. Frequency:	5 kHz

Result:	N/A
----------------	-----

Note: The DC input port is used from USB power adapter. Therefore, this test is not applicable.

5.4.2 Surges

Port:	Input DC Ports	
Basic Standard:	IEC/EN 61000-4-5	
Performance Criteria:	B	
Test Specification:	EN 55024	
	Peak Voltage:	0.5 kV (lines to ground)
	Tr/Th:	1,2/ 50μs

Result:	N/A
----------------	-----

Note: The DC input port is used from USB power adapter. Therefore, this test is not applicable.

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5.4.3 Conducted Disturbances

Port: Input DC ports
Basic Standard: IEC/EN 61000-4-6
Performance Criteria: A
Test Specification:
Frequency Range: 0.15 - 80 MHz
Voltage Level 3 Vrms (Unmodulated)
AM 80%, 1kHz Sine Wave

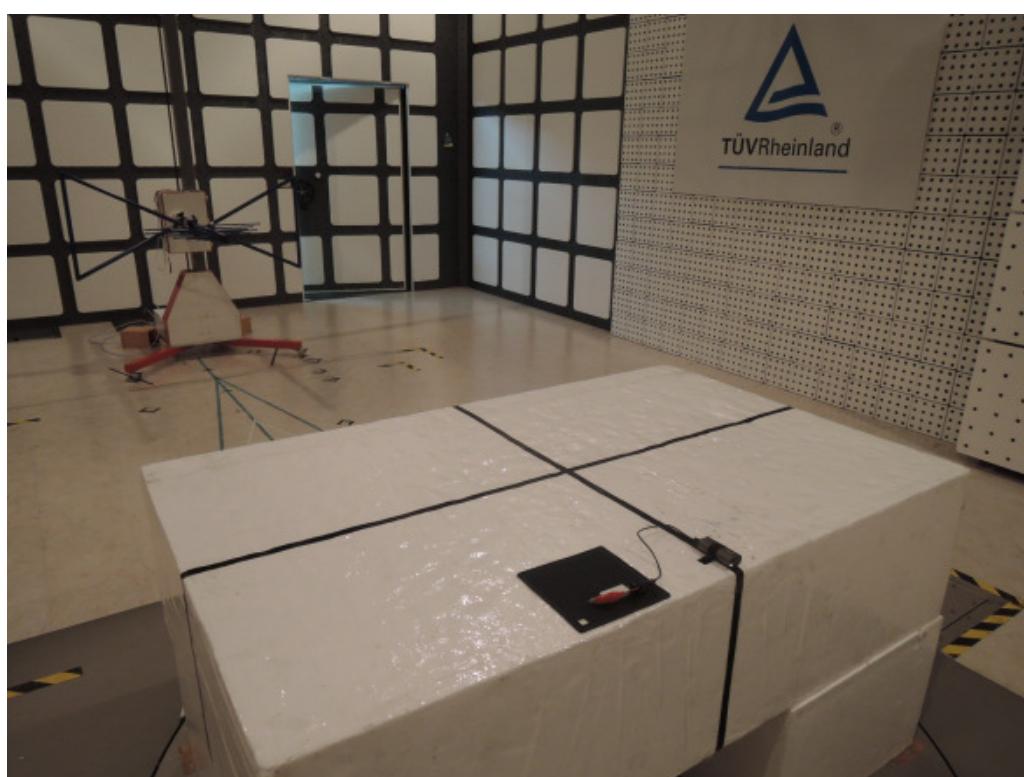
Result:	N/A
----------------	-----

Note: The DC input port is used from USB power adapter. Therefore, this test is not applicable.

6 Photographs of the Test Set-up

Picture 1: Radiated Emission, 30 - 1000 MHz

Discharge Mode



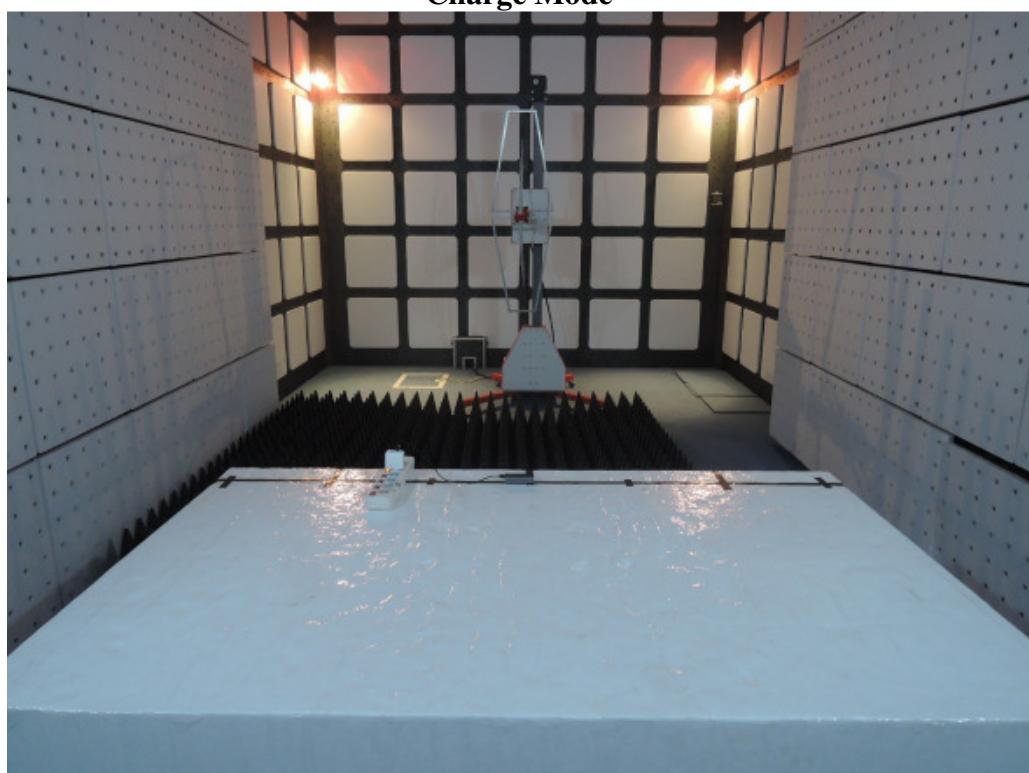
Prüfbericht - Nr.: 10050332 001
Test Report No.:

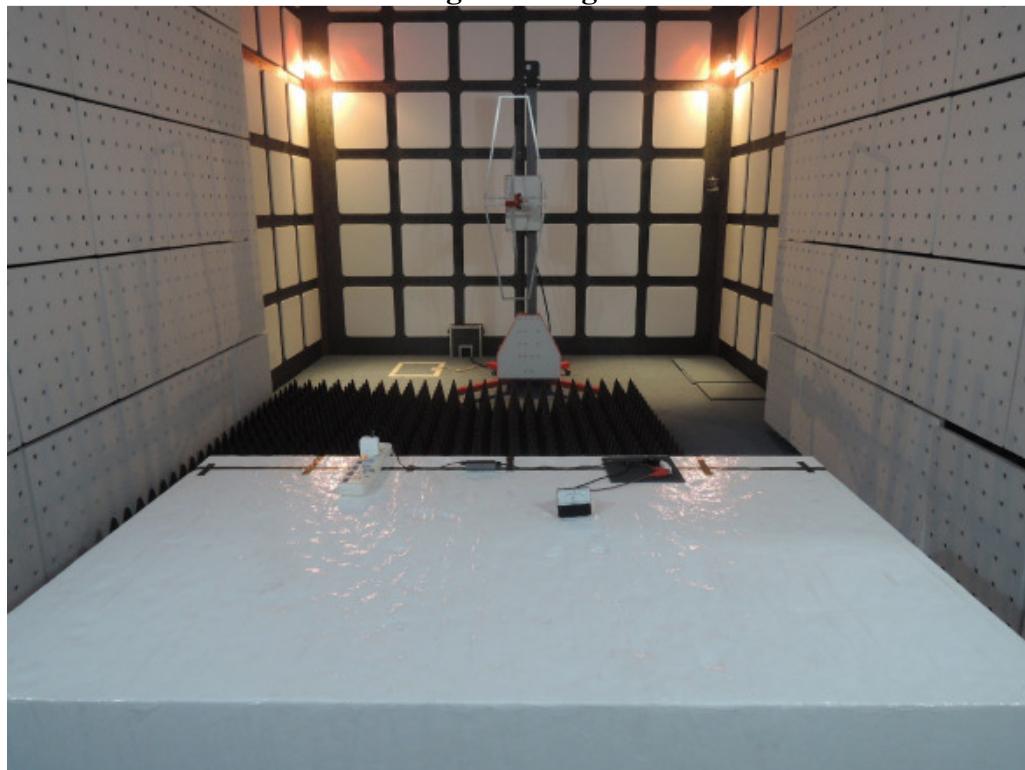
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Picture 2: Radiated Susceptibility, Frequency Range 80 to 1000 MHz
Discharge Mode



Charge Mode



Discharge + Charge Mode

**Picture 3: Electrostatic Discharge, H.C.P. & V.C.P.
Discharge Mode**



Charge Mode



Discharge + Charge Mode



**Picture 4: Power Frequency Magnetic Field Immunity
Discharge Mode**



Charge Mode



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Discharge + Charge Mode



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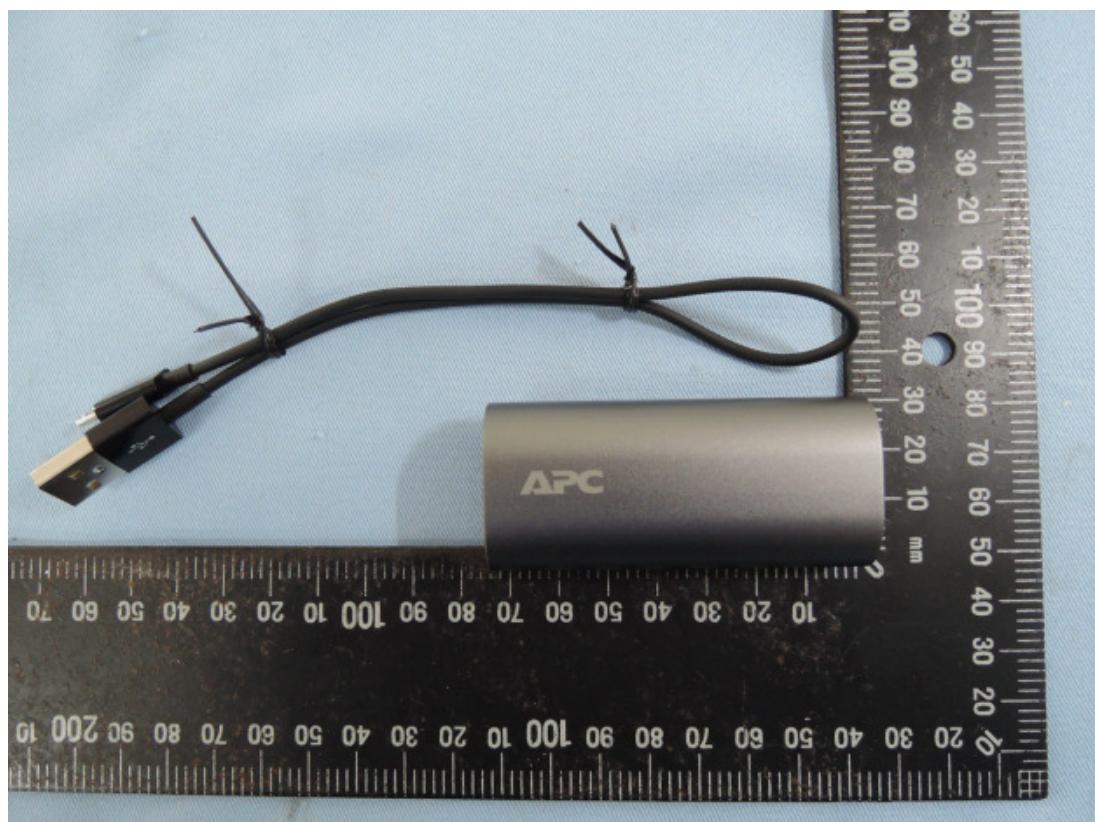
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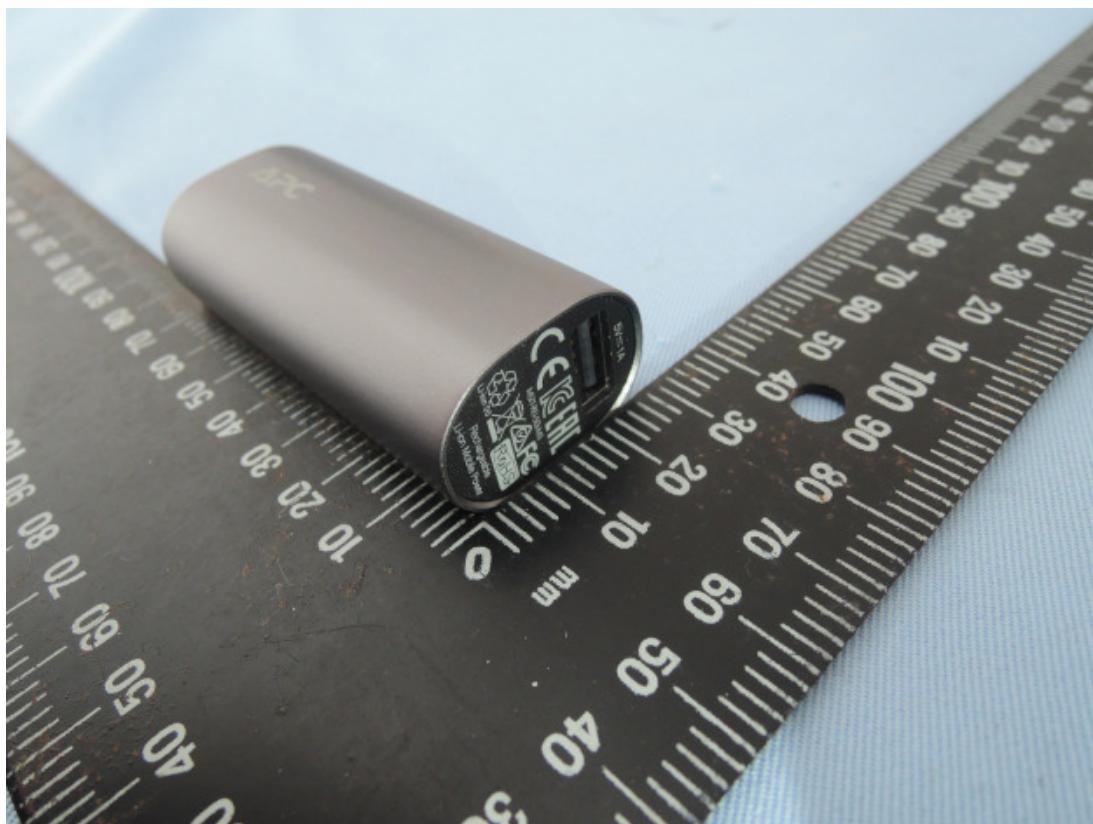
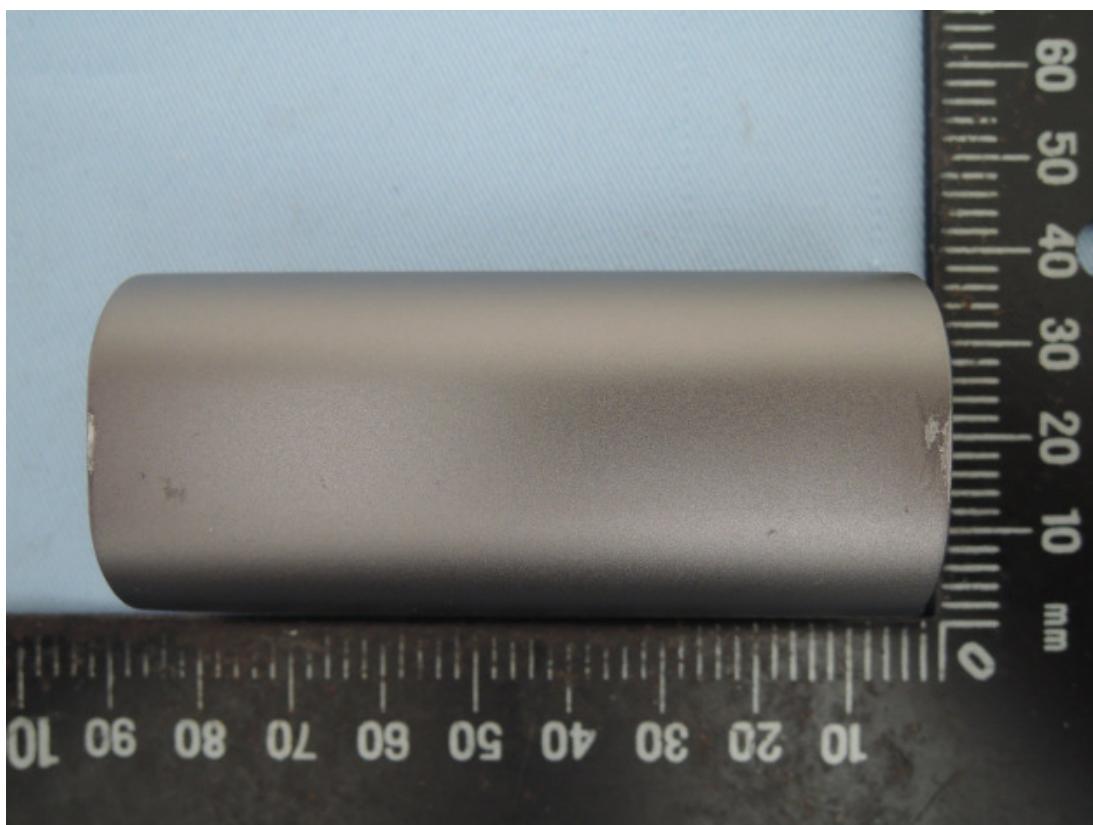
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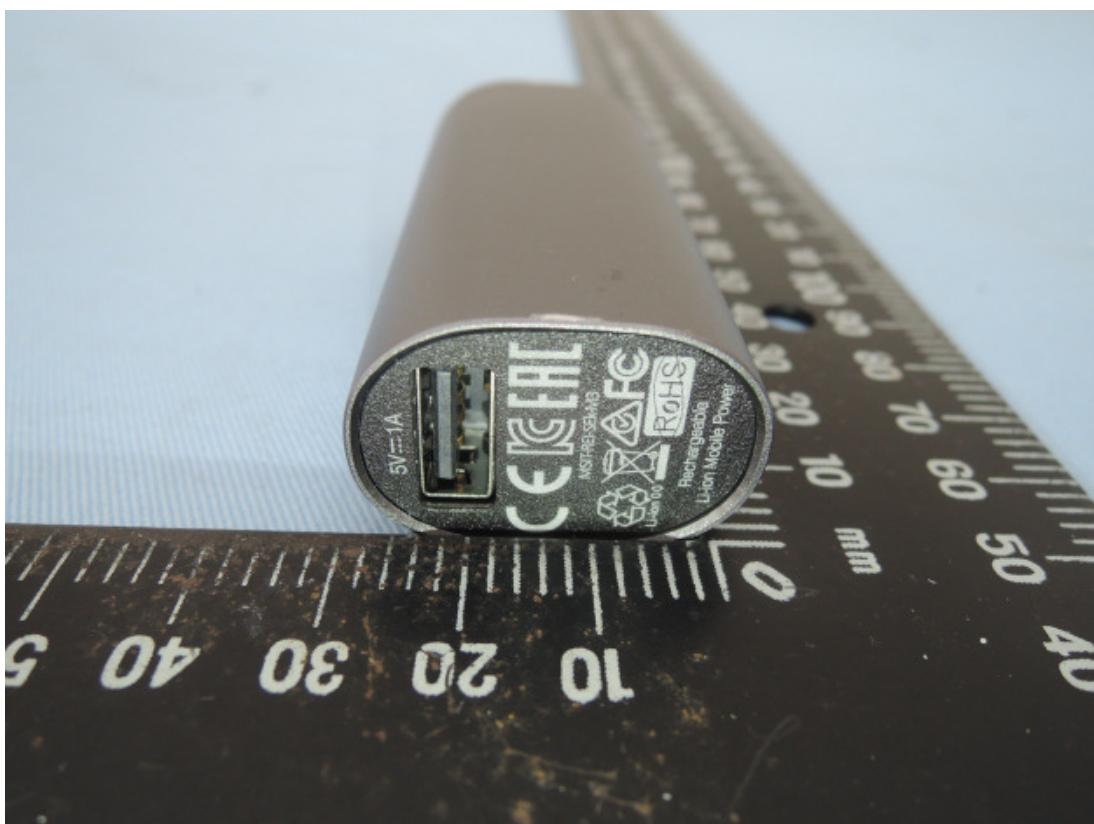
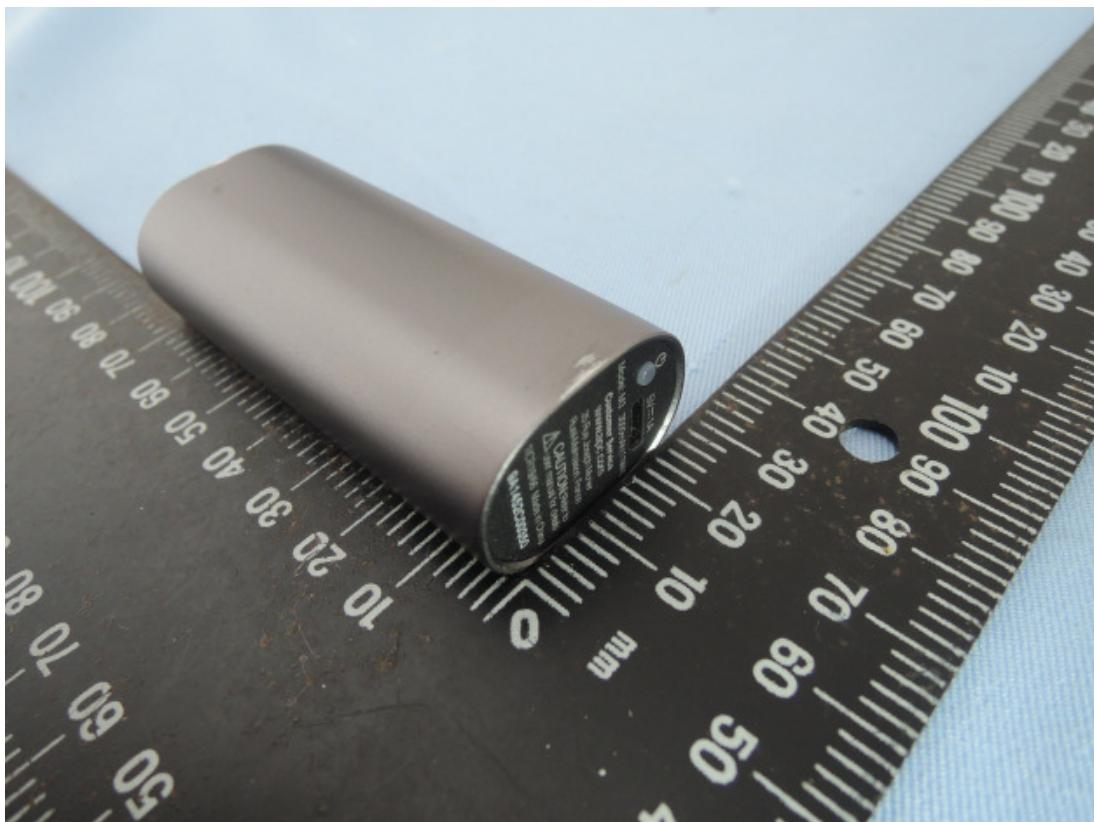
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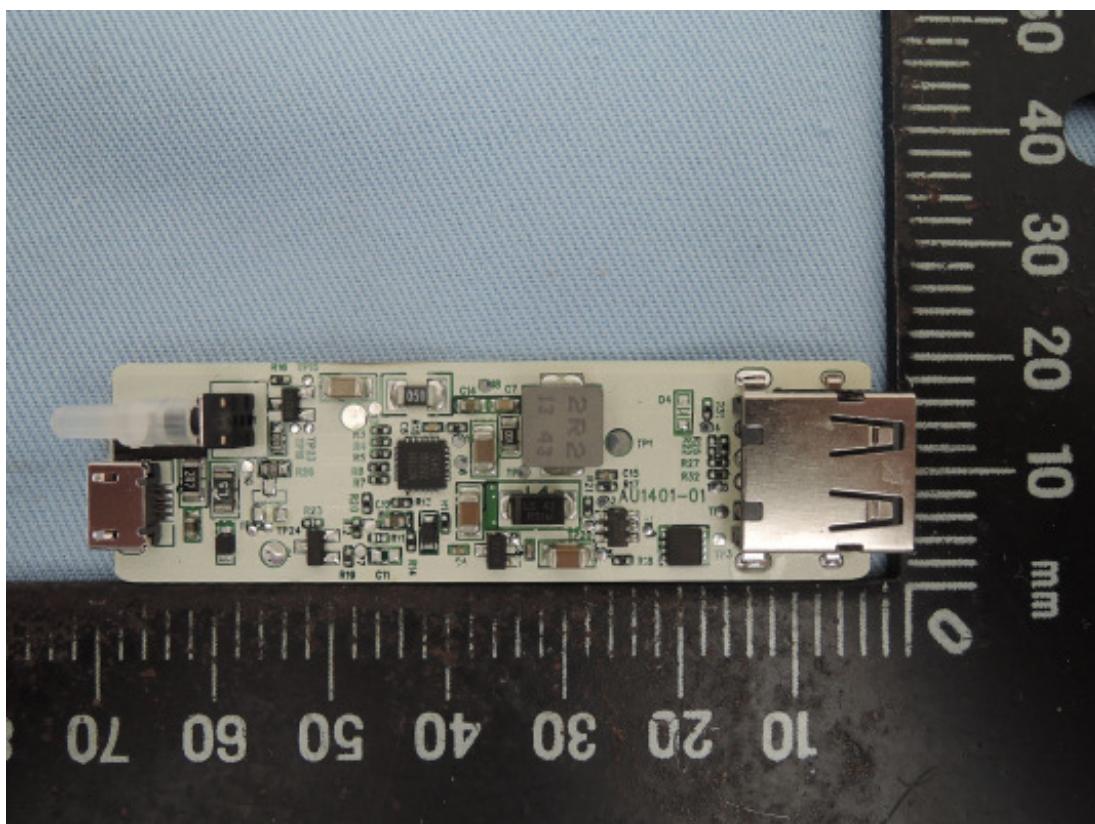


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Product: Power Bank

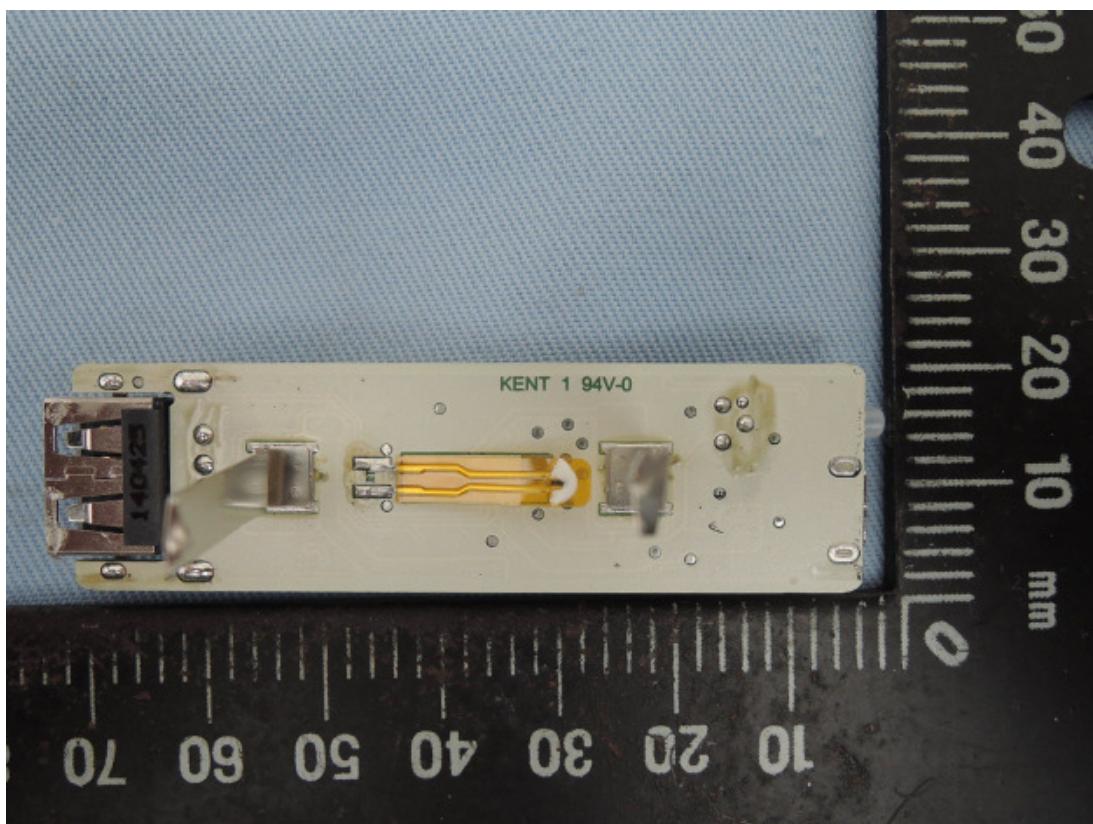
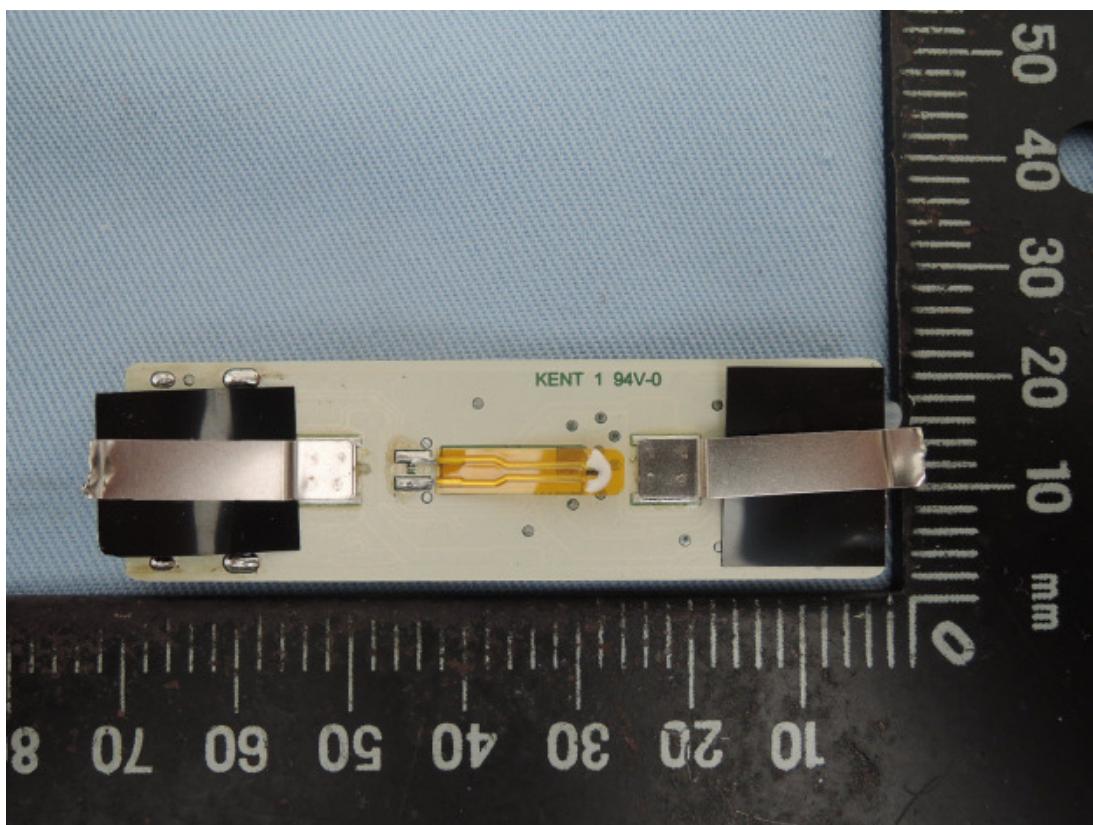
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