

# CE EMC Test Report



(Declaration of Conformity)  
For  
Electromagnetic Interference  
Of

**Product :** Dual car charger

**Trade Name :** N/A

**Model Number :** P302.06X

**Prepared for**

**Prepared by**

Shenzhen BZT Testing Technology Co., Ltd.

1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street  
Bao'an District, Shenzhen P.R. China

## TEST RESULT CERTIFICATION

**Applicant's name** .....

Address .....

**Manufacture's Name** .....

Address .....

### Product description

Product name.....: Dual car charger

Model and/or type reference : P302.06X

**Standards** .....: EN 50498:2010  
ISO 7637-2:2004

This device described above has been tested by BZT, and the test results show that the equipment under test (EUT) is in compliance with the 2004/108/EC requirements. And it is applicable only to the tested sample identified in the report.

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**Date of Test**.....:

Date (s) of performance of tests.....: 10 May. 2014 ~26 May. 2014

Date of Issue .....: 26 May. 2014

Test Result .....: **Pass**

Testing Engineer : Apple Huang  
(Apple Huang)

Technical Manager : Jim He  
(Jim He)

Authorized Signatory : Bovey Yang  
(Bovey Yang)

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## 1. TEST SUMMARY

Test procedures according to the technical standards:

EMC Emission				
Standard	Test Item	Judgment	Remark	
EN 50498 :2010	Voltage Transient Emissions	PASS		
	Radiated Emission	PASS		
EMC Immunity				
Section EN 50498 :2010	Test Item	Performance Criteria	Judgment	Remark
ISO 7637-2:2004	Test Pulse 1	D	PASS	Note 3
ISO 7637-2:2004	Test Pulse 2a	D	PASS	Note 3
ISO 7637-2:2004	Test Pulse 2b	D	PASS	Note 3
ISO 7637-2:2004	Test Pulse 3a	D	PASS	Note 3
ISO 7637-2:2004	Test Pulse 3b	D	PASS	Note 3
ISO 7637-2:2004	Test Pulse 4	D	PASS	Note 3
ISO 7637-2:2004	Test Pulse 5a	C	N/A	Note 3
ISO 7637-2:2004	Test Pulse 5b	C	N/A	Note 3

### NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) For client's request and manual description, the test will not be executed.
- (3) A functional impairment of class C may be acceptable for devices which need not work during the occurrence of distinct pulses.  
A functional impairment of class D may be acceptable for devices the malfunction of which does not cause customer annoyance or inconvenience.  
A functional impairment of class E is defined primarily for test report purposes and would not normally be acceptable for a device unless under special circumstances.

## 1.1 TEST FACILITY

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC FRN Registration Number:238937; IC Registration Number:9270A-1

## 1.2 MEASUREMENT UNCERTAINTY

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

### A. Conducted Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKC01	ANSI	150 KHz ~ 30MHz	3.2	

### B. Radiated Measurement :

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
NTEKA01	ANSI	30MHz ~ 1000MHz	4.7	
		1GHz ~6GHz	5.0	

## 2. GENERAL INFORMATION

### 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Dual car charger	
Model Name	P302.06X	
Serial No	N/A	
Model Difference	N/A	
Product Description	The EUT is a Dual car charger.	
	Operating frequency:	N/A
	Connecting I/O port:	N/A
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Power Source	DC Voltage	
Power Rating	12V-24V	

## 2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Full load

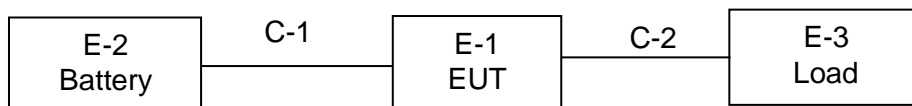
For Conducted Test	
Final Test Mode	Description
Mode 1	Full load

For Radiated Test	
Final Test Mode	Description
Mode 1	Full load

For EMS Test	
Final Test Mode	Description
Mode 1	Full load

## 2.3 DESCRIPTION OF TEST SETUP

Mode :



## 2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Dual car charger	N/A	P302.06X	N/A	EUT
E-2	Battery	N/A	12V80Ahx2	N/A	
E-3	Load	N/A	N/A	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	200cm	
C-2	NO	NO	200 cm	

### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

## 2.5 MEASUREMENT INSTRUMENTS LIST

### 2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	101313	Jul. 06, 2014
2	LISN	EMCO	3816/2	00042990	Jul. 06, 2014
3	50Ω Switch	ANRITSU CORP	MP59B	6200983704	Jul. 06, 2014
4	Test Cable	N/A	C01	N/A	Jul. 06, 2014
5	Test Cable	N/A	C02	N/A	Jul. 06, 2014
6	Test Cable	N/A	C03	N/A	Jul. 06, 2014
7	EMI Test Receiver	R&S	ESCI	101160	Jul. 06, 2014
8	Passive Voltage Probe	ESH2-Z3	R&S	100196	Jul. 06, 2014
9	Triple-Loop Antenna	EVERFINE	LIA-2	11020003	Jul. 06, 2014
10	Absorbing Clamp	R&S	MDS-21	100423	Jul. 08, 2013

### 2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Bilog Antenna	TESEQ	CBL6111D	31216	Jul. 06, 2014
2	Test Cable	N/A	R-01	N/A	Jul. 06, 2014
3	Test Cable	N/A	R-02	N/A	Jul. 06, 2014
4	EMI Test Receiver	R&S	ESCI-7	101318	Jul. 06, 2014
5	Antenna Mast	EM	SC100_1	N/A	N/A
6	Turn Table	EM	SC100	060531	N/A
7	50Ω Switch	Anritsu Corp	MP59B	6200983705	Jul. 06, 2014
8	Spectrum Analyzer	Aglient	E4407B	MY45108040	Jul. 06. 2013
9	Horn Antenna	EM	EM-AH-1018 0	2011071402	Jul. 06. 2013
10	Amplifier	EM	EM-30180	060538	Jul. 06. 2013

### 2.5.3 P1,P2,P3,P4,P5

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Speed Recovering DC Power Supply	EVERFINE	N/A	N/A	N/A
2	Automotive EMS Test Systems	EVERFINE	EMS7637-P5 a5b	1103001	Jul. 06, 2014
3	Automotive Ems Test Systems	EVERFINE	EMS7637-P3 a3b	1103001	Jul. 06, 2014
4	Automotive EMS Test Systems	EVERFINE	EMS7637-P2 bP4-V100	1101001	Jul. 06, 2014
5	Automotive EMS Test Systems	EVERFINE	EMS7637-P1 P2a	1102001	Jul. 06, 2014

### 3. EMC EMISSION TEST

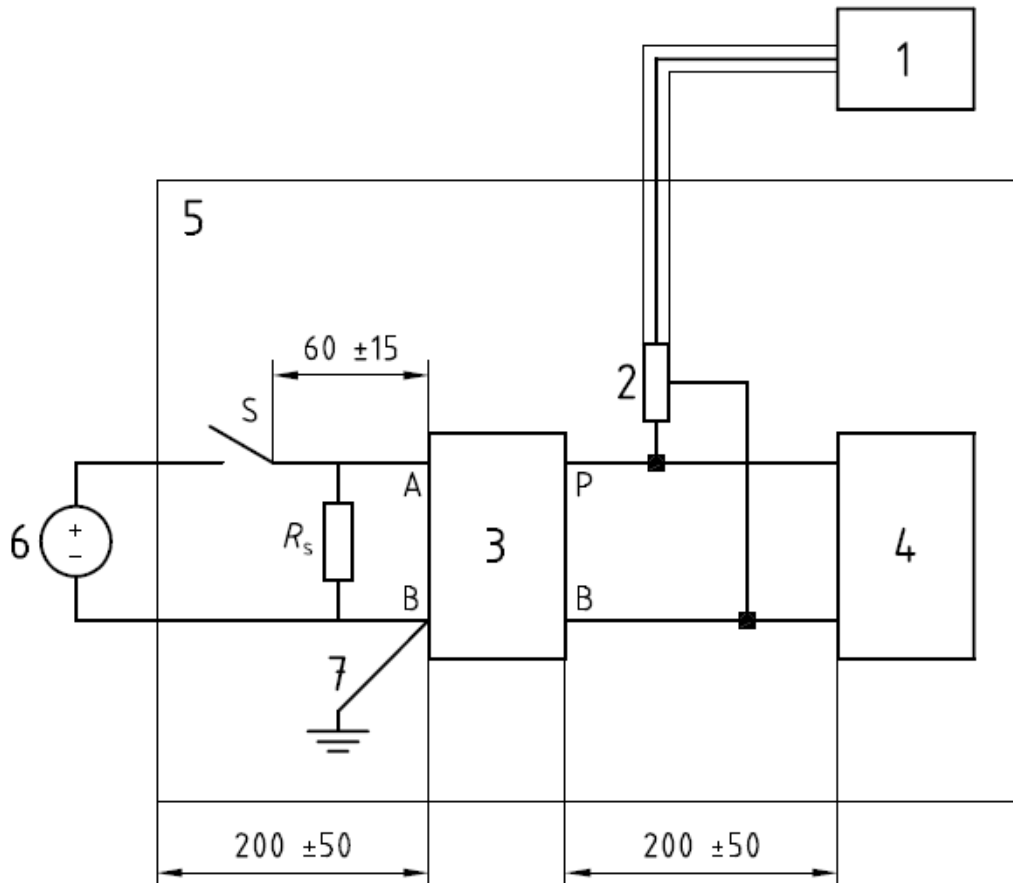
#### 3.1 VOLTAGE TRANSIENT EMISSIONS

##### 3.1.1 LIMIT

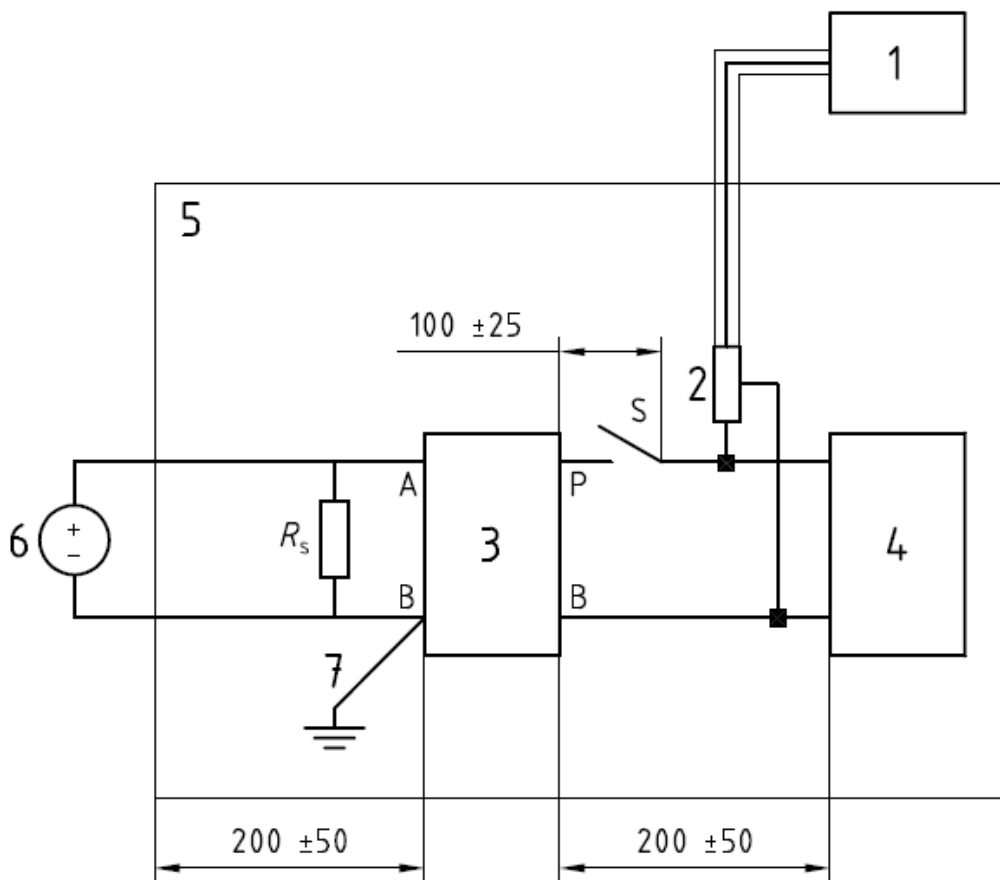
Polarity of pulse amplitude	Maximum allowed pulse amplitude for	
	Vehicles with 12V system	Vehicles with 24V system
Positive	+ 75	+ 150
Negative	- 100	- 450

##### 3.1.2 TEST CONFIGURATION

##### 3.1.2.1 Slow Pulses (millisecond range or slower)



### 3.1.2.2 Fast Pulses (nanosecond-to-microsecond range)



1	oscilloscope or equivalent	5	ground plane
2	voltage probe	6	power supply
3	artificial network	7	Ground connection; length < 100 mm
4	DUT (source of transient)	---	---

### 3.1.3 TEST RESULTS

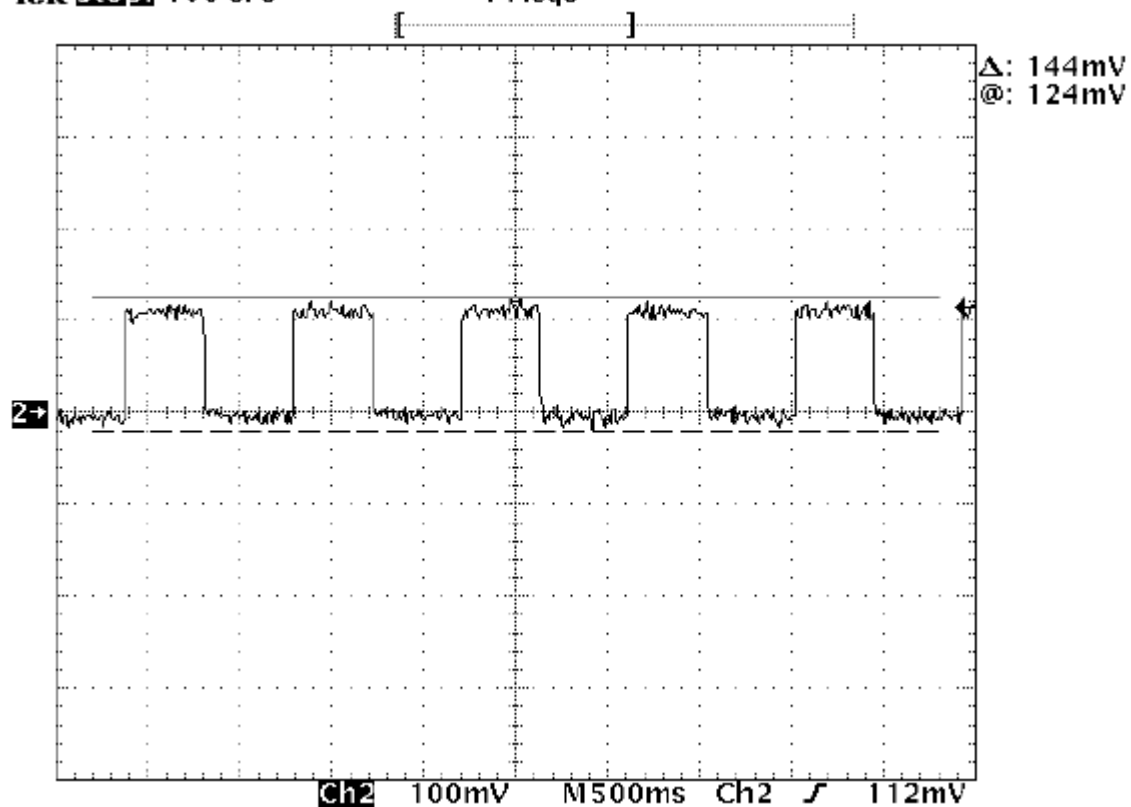
EUT :	Dual car charger	Model Name. :	P302.06X
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Test Date :	2014-03-25
Test Mode :	Full load		
Test Voltage :	DC 12V From Battery		

#### 3.1.3.1 Slow Pulse

Input Voltage : S-switch OFF-ON		
Positive	14 Volts	Pass
Negative	-8.0 Volts	Pass

**Tek STOP** 100 S/s

1 Acqs

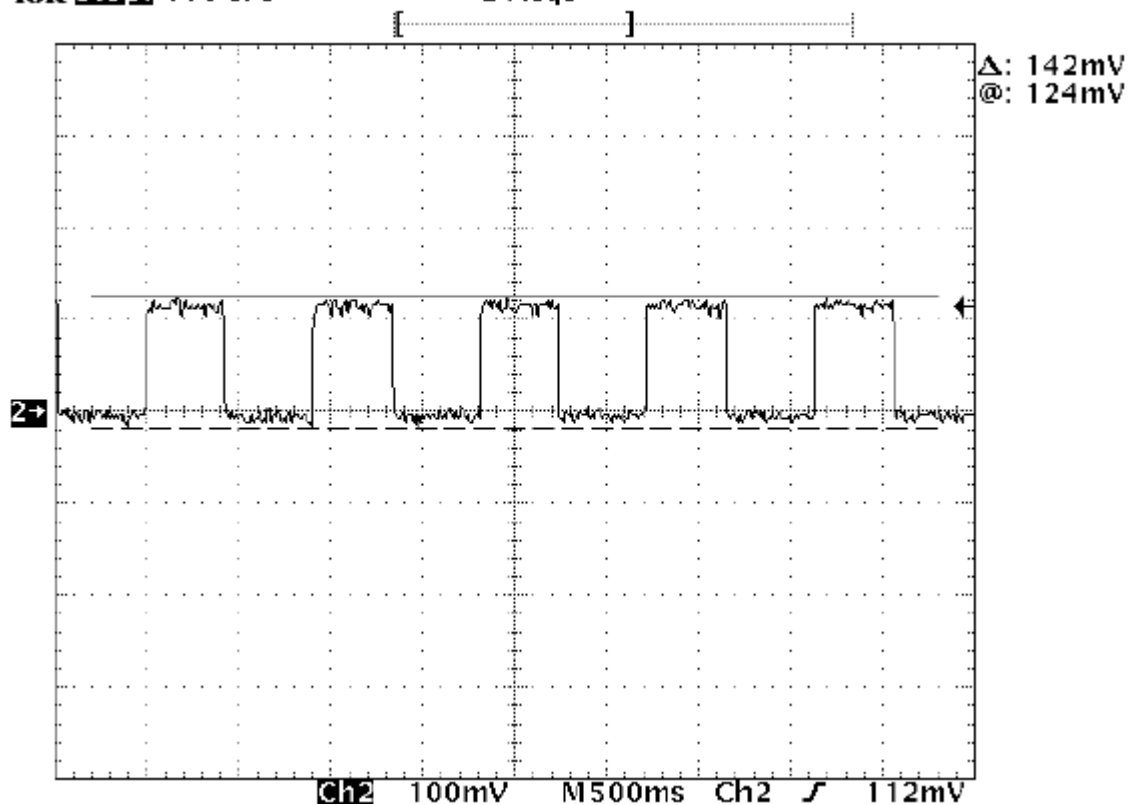


### 3.1.3.2 Fast Pulse

Input Voltage : S-switch OFF-ON		
Positive	19 Volts	Pass
Negative	-7.4 Volts	Pass

**Tek Stop:** 100 S/s

2 Acqs



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 LIMITS OF BROADBAND RADIATED DISTURBANCES

FREQUENCY (MHz)	QP
	dBuV/m
30 – 75	62 – 52
75 – 400	52 – 63
400 – 1000	63

#### 3.2.2 LIMITS OF NARROWBAND DISTURBANCES

FREQUENCY (MHz)	AVG
	dBuV/m
30 – 75	52 – 42
75 – 400	42 – 53
400 – 1000	53

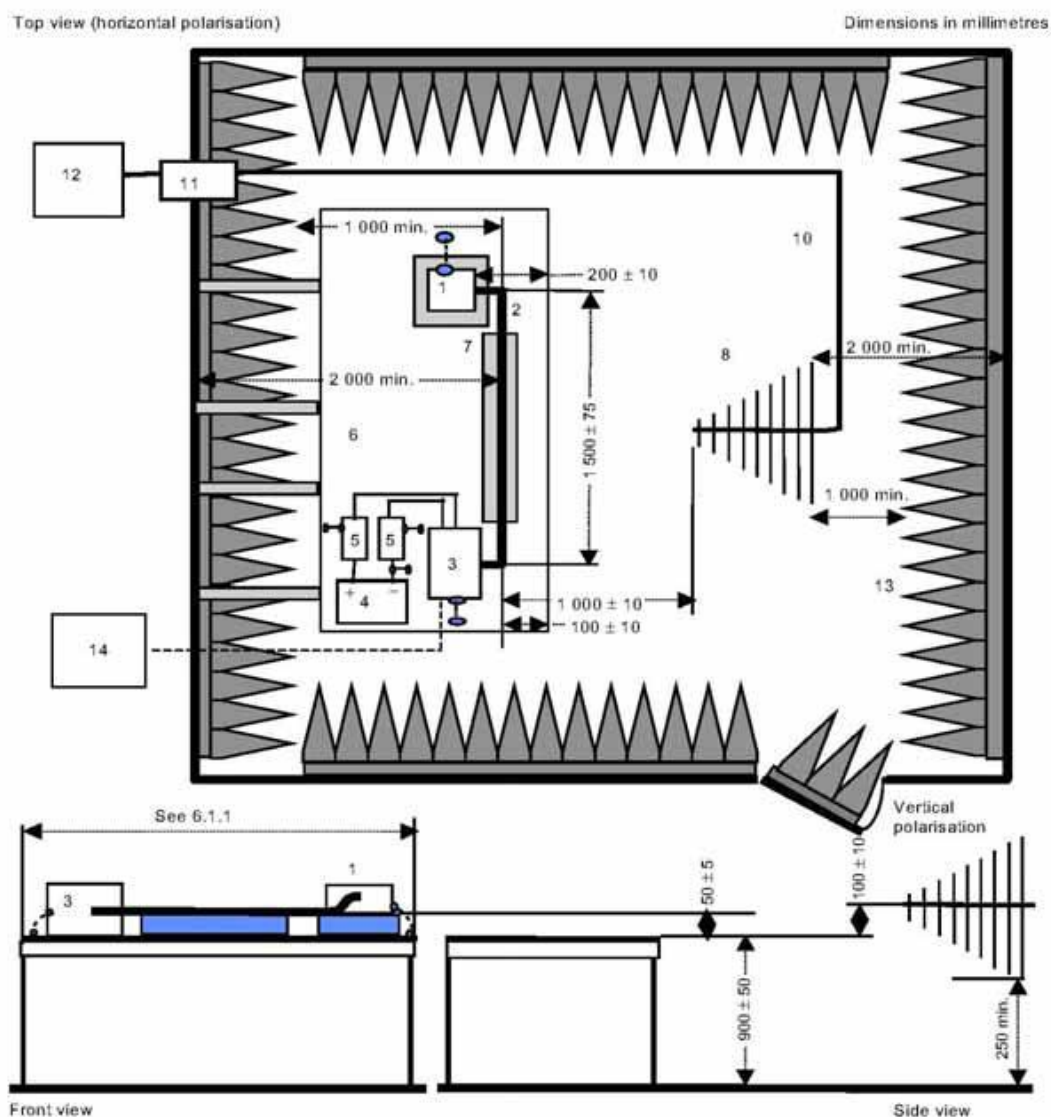
Notes:

- (1) The limit for radiated test was performed according to as following:  
CISPR 25.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

#### 3.2.3 TEST PROCEDURE

- a. The measuring distance of at 1 m shall be used for measurements.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer Quasi Peak (broadband) and AVG (narrowban) detector mode pre-scanning the measurement frequency range.

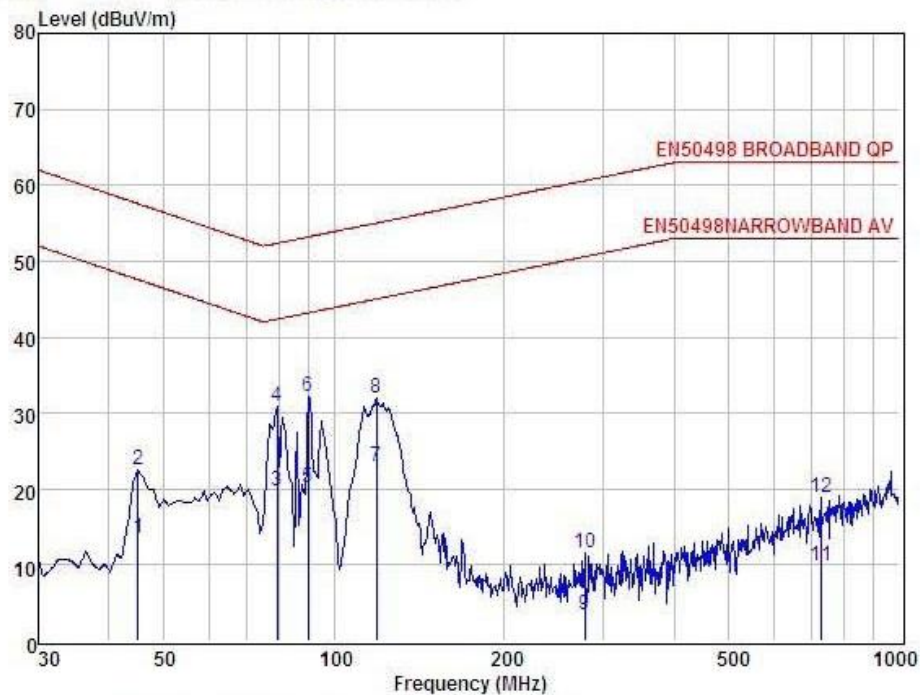
(A) Radiated Emission Test Set-Up Frequency



1	Equipment under test	8	Log-periodic antenna
2	Test harness	9	Monitoring device
3	Load simulator	10	High quality double-shielded coaxial cable (50 $\Omega$ )
4	Battery	11	Bulkhead connector
5	Artificial mains network (AN)	12	Measuring instrument
6	Ground plane	13	RF absorber material
7	Low relative permittivity support ( $\epsilon_r \leq 1.4$ )	14	Stimulation and monitoring system

### 3.2.5 TEST RESULTS(30-1000MHz)

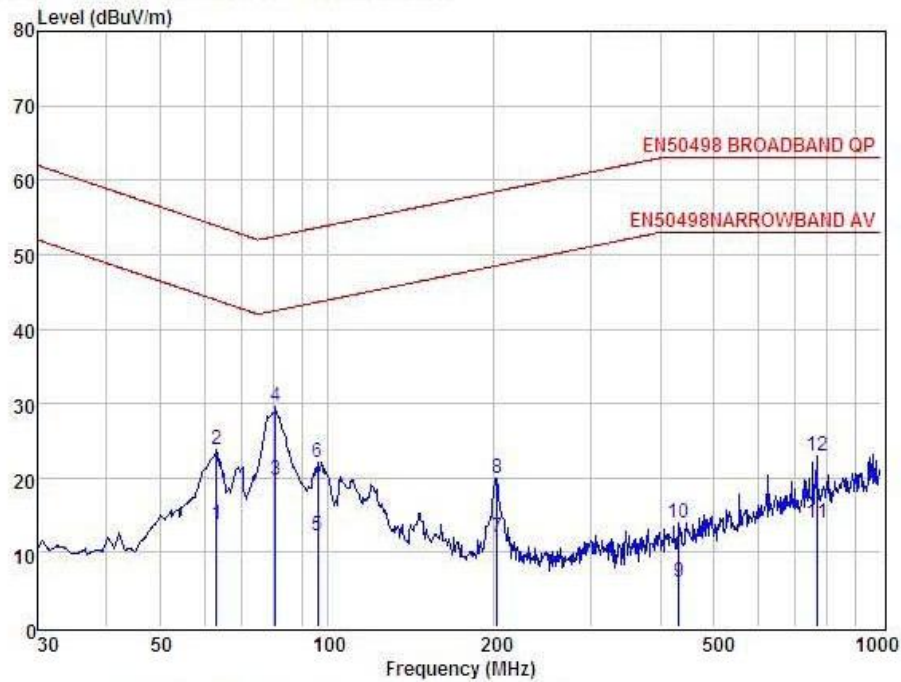
EUT :	Dual car charger	Model Name :	P302.06X
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2014-03-25
Test Mode :	Full load	Polarization :	Horizontal
Test Power :	DC 12V From Battery		



Condition : EN50498 BROADBAND QP 3m POL: HORIZONTAL									
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	45.06	27.62	13.65	27.82	0.05	13.50	47.56	-34.06	Average
2	45.06	36.62	13.65	27.82	0.05	22.50	57.56	-35.06	QP
3	79.24	37.06	9.29	26.79	0.23	19.79	42.36	-22.57	Average
4	79.24	48.06	9.29	26.79	0.23	30.79	52.36	-21.57	QP
5	89.90	37.26	9.44	26.82	0.34	20.22	43.19	-22.97	Average
6	89.90	49.26	9.44	26.82	0.34	32.22	53.19	-20.97	QP
7	119.02	37.38	12.06	26.88	0.33	22.89	45.03	-22.14	Average
8	119.02	46.38	12.06	26.88	0.33	31.89	55.03	-23.14	QP
9	278.07	17.85	12.31	27.15	0.53	3.54	50.61	-47.07	Average
10	278.07	25.85	12.31	27.15	0.53	11.54	60.61	-49.07	QP
11	726.81	16.10	19.99	27.72	1.42	9.79	53.00	-43.21	Average
12	726.81	25.10	19.99	27.72	1.42	16.79	63.00	-44.21	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

EUT :	Dual car charger	Model Name :	P302.06X
Temperature :	24 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Date :	2014-03-27
Test Mode :	Full load	Polarization :	Vertical
Test Power :	DC 12V From Battery		



Condition : EN50498 BROADBAND QP 3m POL: HORIZONTAL									
Item	Freq MHz	Read Level dBuV	Antenna Factor dB	Preamp Factor dB	Cable Loss dB	Level dBuV	Limit dBuV	Margin dBuV	Remark
1	63.09	29.02	11.98	27.43	0.21	13.78	43.89	-30.11	Average
2	63.09	39.02	11.98	27.43	0.21	23.78	53.89	-30.11	QP
3	80.64	37.01	9.32	26.80	0.14	19.67	42.48	-22.81	Average
4	80.64	47.01	9.32	26.80	0.14	29.67	52.48	-22.81	QP
5	96.10	28.75	9.87	26.83	0.41	12.20	43.63	-31.43	Average
6	96.10	38.75	9.87	26.83	0.41	22.20	53.63	-31.43	QP
7	202.81	28.64	9.93	26.98	0.44	12.03	48.54	-36.51	Average
8	202.81	38.64	9.93	26.98	0.44	20.03	58.54	-38.51	QP
9	431.03	17.22	15.53	27.46	0.73	6.02	53.00	-46.98	Average
10	431.03	25.22	15.53	27.46	0.73	14.02	63.00	-48.98	QP
11	766.06	19.63	20.45	27.67	1.44	13.85	53.00	-39.15	Average
12	766.06	28.63	20.45	27.67	1.44	22.85	63.00	-40.15	QP

Remark: Level = Read Level + Antenna Factor - Preamp Factor + Cable Loss

## 4. EMC IMMUNITY TEST

### 4.1 GENERAL PERFORMANCE CRITERIA

According to **ISO 7637-2** standard, the general performance criteria as following:

<b>Criterion A</b>	All functions of a device/system perform as designed during and after exposure to disturbance.
<b>Criterion B</b>	All functions of a device/system perform as designed during exposure. However, one or more of them can go beyond specified tolerance. All functions return automatically to within normal limits after exposure is removed. Memory functions shall remain class A.
<b>Criterion C</b>	One or more functions of a device/system do not perform as designed during exposure but return automatically to normal operation after exposure is removed.
<b>Criterion D</b>	One or more functions of a device/system do not perform as designed during exposure and do not return to normal operation until exposure is removed and the device/system is reset by simple "operator/use" action.
<b>Criterion E</b>	One or more functions of a device/system do not perform as designed during and after exposure and cannot be returned to proper operation without repairing or replacing the device/system.

NOTE The word "function" in this context refers only to the function performed by the electronic system.

### 4.2 GENERAL PERFORMANCE CRITERIA TEST SETUP

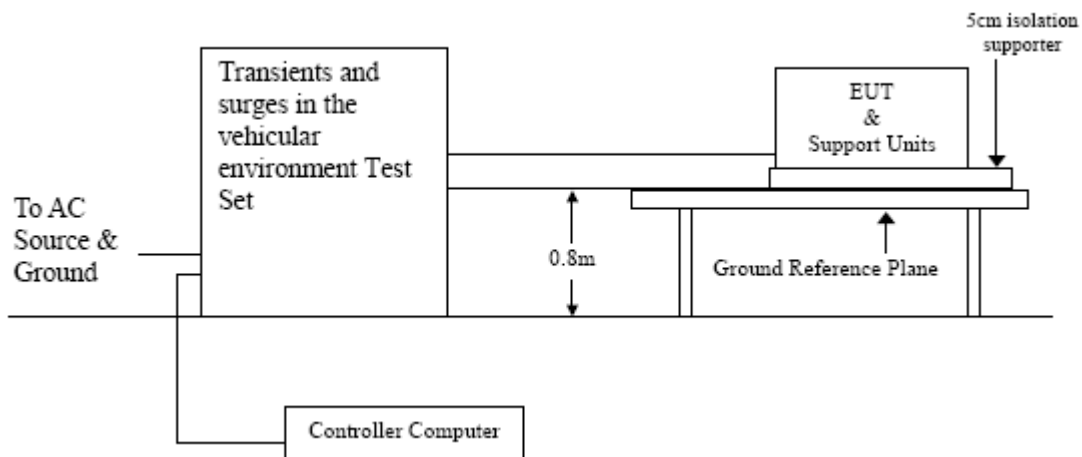
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

### 4.3 TRANSIENTS IMMUNITY TEST

#### 4.3.1 LIMIT

Test pulse number	Immunity test level	Functional status for systems
1	III	D
2a	III	D
2b	III	D
3a/3b	III	D
4	III	D

#### 4.3.2 TEST CONFIGURATION



#### 4.3.3 TEST PROCEDURE

The immunity of ESA representative of its type shall be tested by the method(s) according to ISO 7637-2:2004 as described in COMMISSION DIRECTIVE 2004/104/EC.

#### 4.3.4 TEST RESULTS

EUT :	Dual car charger	Model Name :	P302.06X
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1010 hPa	Test Date :	2014-03-25
Test Mode :	Full load		
Test Power :	DC 12V From Battery		

Test Pulses	Test Level (V)	Test time	standard	Test Result	Observation
1	-450	5000 pulses	D	D	During the test, abnormal operation occurred to EUT, caused by interference. The EUT has to be reset to recover to normal operation.
2a	+37	5000 pulses	D	A	Normal
2b	+20	10 pulses	D	D	During the test, abnormal operation occurred to EUT, caused by interference. The EUT has to be reset to recover to normal operation.
3a	-150	1H	D	A	Normal
3b	+150	1H	D	A	Normal
4	-12	1 pulses	D	D	During the test, abnormal operation occurred to EUT, caused by interference. The EUT has to be reset to recover to normal operation.

#### 4.4.4.1 Test Pulse 1

Test Number 1					
Test Type		MT 5511 Pulse 1 ISO (Generic 2 and 6 ms transients)			
Sequence Repetition		Count 5000			
Test Status		D			
Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	-450 V	---	---	---
Pulse Period (t1)	Static	0.5 Secs	---	---	---
General		Value			
Rise Time (tr)		3 us			
Output Resistance (Ri)		50 ohms			
Pulse Width (td)		1 ms			
DC Power Reduction (t2)		200ms			
Surge Delay (t3)		50 us			
Polarity/Coupling		Negative Parallel			
Battery					
Battery State		UPC/Time			
Voltage		12 V			
Current Limit		30.0 A			
End of Test Voltage		12 V			
Ext.Resistance (Ri)					
External Resistance		Inactive			
Comments:					

## 4.4.4.2 Test Pulse 2a

Test Number 2					
Test Type		MT 5511 Pulse 1 ISO (Generic 2 and 6 ms transients)			
Sequence Repetition		Count 5000			
Test Status		A			
Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	+37 V	---	---	---
Pulse Period (t1)	Static	0.5 Secs	---	---	---
General		Value			
Rise Time (tr)		1 us			
Output Resistance (Ri)		2 ohms			
Pulse Width (td)		0.05 ms			
Polarity/Coupling		Positive Serial			
Battery					
Battery State		On			
Voltage		12 V			
Current Limit		30.0 A			
End of Test Voltage		12 V			
Ext. Resistance (Ri)					
External Resistance		Inactive			
Comments:					

## 4.4.4.3 Test Pulse 2b

Test Number 3	
Test Type	NSG 5600 Pulse 2B ( SVV )
Sequence Repetition	Count 10
Test Status	D
Voltage	
Static Voltage (Ua)	13 V
Pulse Voltage (Us)	10 V
Timing	
Voltage Delay (t6)	1 ms
Rise Time (tr)	1 ms
Pulse Width (td)	200 ms
Voltage Dips Time (t12)	1 ms
Resistance	
Output Resistance (Ri)	0 ohms
Battery	
Current Limit	30 A
End of Test Voltage	12 V
Comments:	

#### 4.4.4.4 Test Pulse 3a

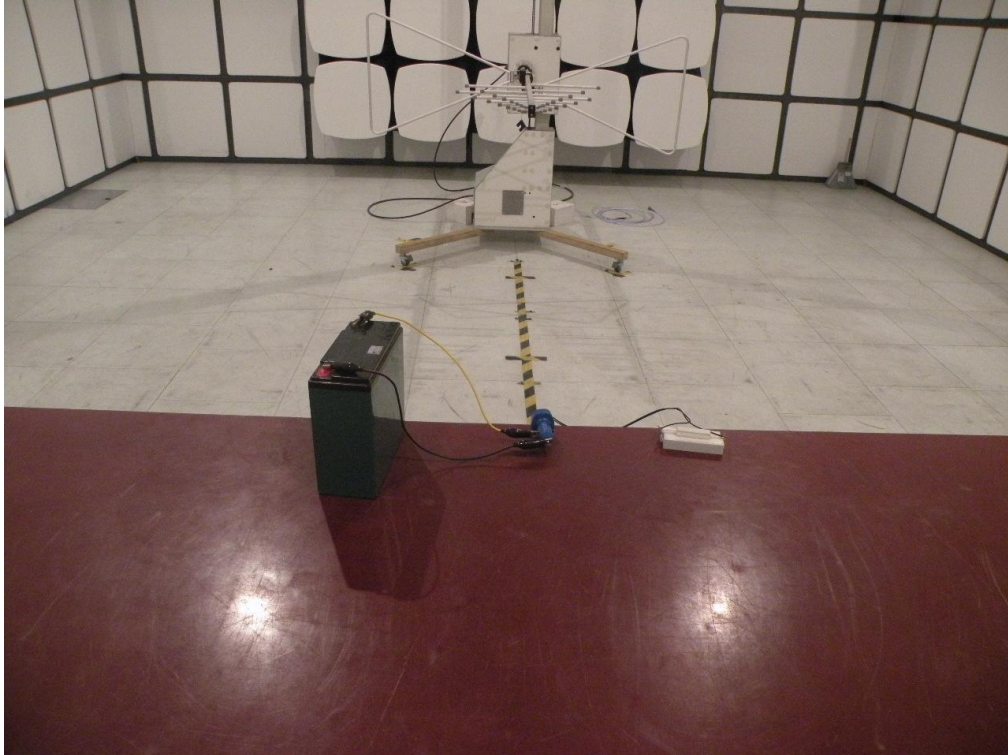
Test Number 4					
Test Type		FT 5530 Pulse 3A/B ( Burst )			
Sequence Repetition		Hours 1			
Test Status		A			
Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	-150 V	---	---	---
Pulse Freq (1/t1)	Static	10 kHz	---	---	---
General		Value			
Rise Time (tr)		5 ns			
Output Resistance (Ri)		50 ohms			
Pulse Width (td)		100 ns			
Burst Interval(t5)		0.09 Seconds			
Output Mode		NORMAL			
No Pulses (t4/t1)					
No of Pulses (Np)		100			
Burst Duration (t4)		10 ms			
Battery					
Battery State		On			
Voltage		12 V			
Current Limit		30.0 A			
End of Test Voltage		12 V			
Polarity					
Polarity		Negative			
Comments:					

#### 4.4.4.5 Test Pulse 3b

Test Number 5					
Test Type		FT 5530 Pulse 3A/B ( Burst )			
Sequence Repetition		Hours 1			
Test Status		A			
Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	+150 V	---	---	---
Pulse Freq (1/t1)	Static	10 kHz	---	---	---
General		Value			
Rise Time (tr)		5 ns			
Output Resistance (Ri)		50 ohms			
Pulse Width (td)		100 ns			
Burst Interval(t5)		0.09 Seconds			
Output Mode		NORMAL			
No Pulses (t4/t1)					
No of Pulses (Np)		100			
Burst Duration (t4)		10 mS			
Battery					
Battery State		On			
Voltage		12 V			
Current Limit		30.0 A			
End of Test Voltage		12 V			
Polarity					
Polarity		Positive			
Comments:					

## 4.4.4.6 Test Pulse 4

Test Number 6					
Test Type		Double Arb : Master -> NSG 5600 Pulse 4C ( SVV )			
Sequence Repetition		Count 1			
Test Status		A			
Parameter	Operation	From	To	Step Size	Fail Value
Pulse Voltage (Us)	Static	-12V	---	---	---
Pulse Freq (1/t1)	Static	10 kHz	---	---	---
General		Value			
First Rise Time (t8)		50 ms			
Second Rise Time (t11)		50 ms			
Output Resistance (Ri)		0 ohms			
First Pulse Voltage (Us)		-12 V			
Second Pulse Voltage (U <sub>A</sub> )		-5 V			
First Static Time (t7)		50 ms			
Second Static Time (t9)		5 s			
Battery					
Battery State		On			
Voltage		12 V			
Current Limit		30.0 A			
End of Test Voltage		12 V			
Polarity					
Polarity		Positive			
Comments:					

**5. EUT TEST PHOTO****Radiated Measurement Photos**

ATTACHMENT PHOTOGRAPHS OF EUT

Photo 1

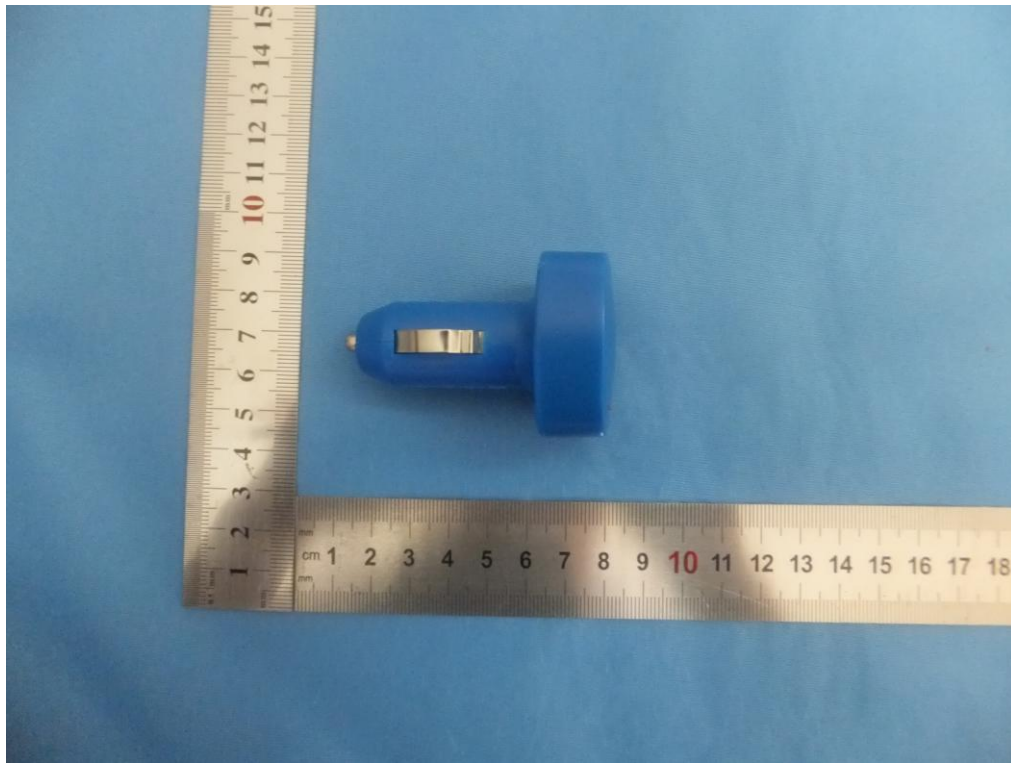


Photo 2

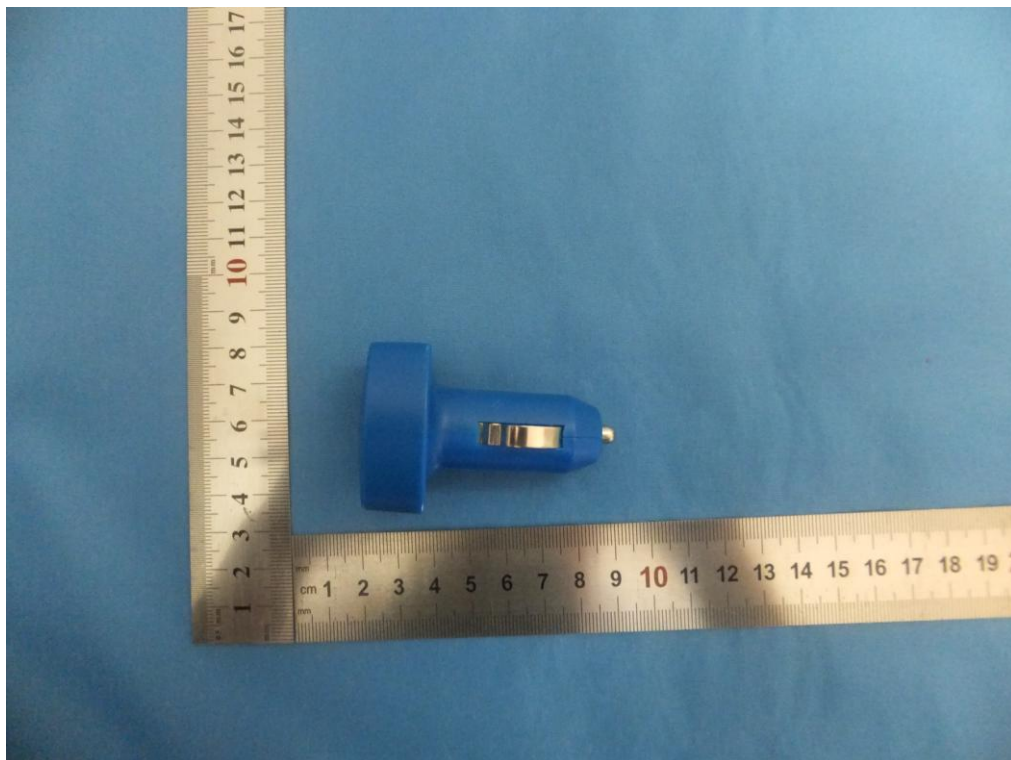


Photo 3

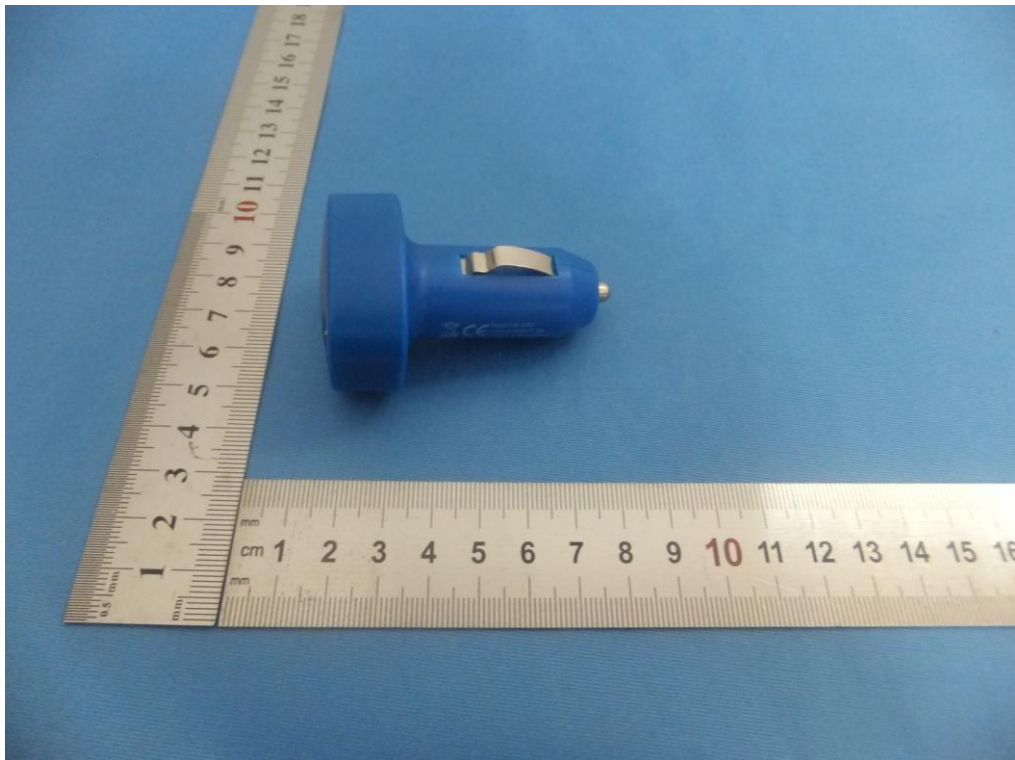


Photo 4



Photo 5

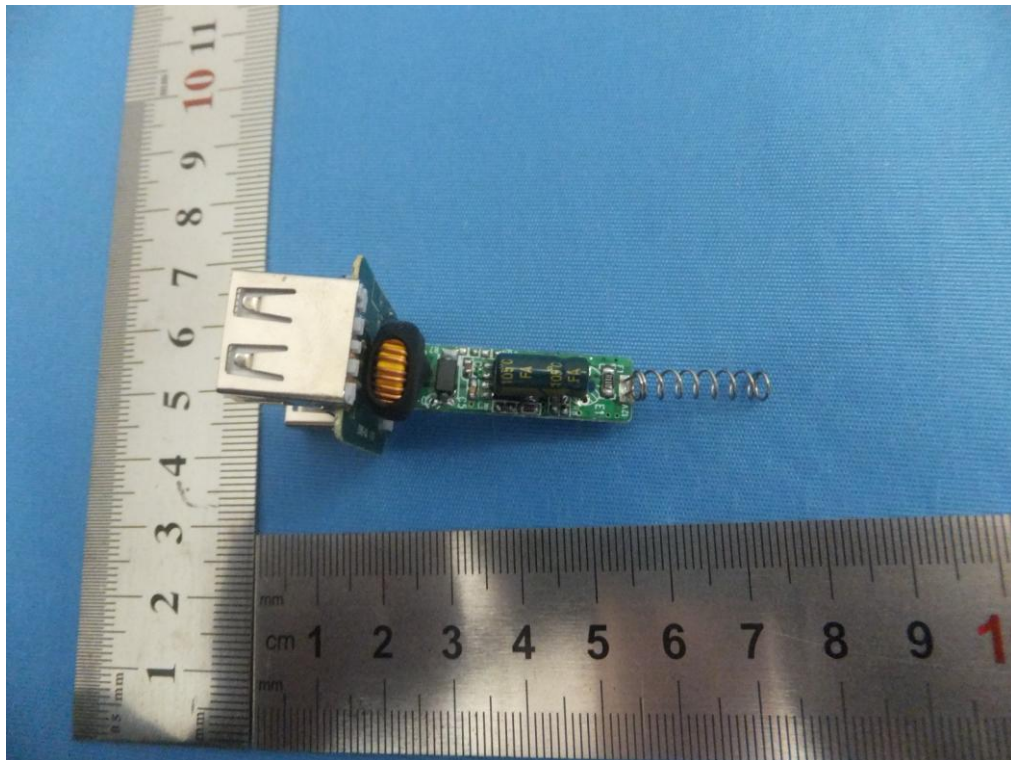


Photo 6

