

# **TEST REPORT**

# No.I21N02088-EMC

for

# TCL Communication Ltd.

### **MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES**

### Model Name: TW18

### With

### Hardware Version: TW18\_V1.1, TW18\_V1.0

### Software Version: TW18\_buds\_1.0.0.5

# FCC ID: 2ACCJB162

### Issued Date: 2021-08-03

#### Designation Number: CN1210

#### Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of SAICT.

#### Test Laboratory:

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# **REPORT HISTORY**

Report Number	Revision	Description	Issue Date
I21N02088-EMC	Rev.0	1st edition	2021-08-03

Note: the latest revision of the test report supersedes all previous version.



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### 1. Summary of Test Report

#### 1.1. Test Items

Description	MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES
Model Name	TW18
Applicant's name	TCL Communication Ltd.
Manufacturer's Name	TCL Communication Ltd.

#### 1.2. Test Standards

FCC Part 15, Subpart B 10-1-2019 Edition; ANSI C63.4 2014

#### 1.3. Test Result

#### Pass

Total test 2 items, pass 2 items. Please refer to "6.2 Summary of Measurement Results"

#### 1.4. Testing Location

Address: Building G, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian District, Shenzhen, Guangdong, P. R. China

#### 1.5. Project data

Testing Start Date: 2021-07-08 Testing End Date: 2021-07-30

#### 1.6. Signature

这年

Liang yong (Prepared this test report)

、黄源化

Cao Junfei (Approved this test report)

Zhang Yunzhuan (Reviewed this test report)



# 2. <u>Client Information</u>

# 2.1. Applicant Information

Company Name:	TCL Communication Ltd.		
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Address:	Park, Shatin, NT, Hong Kong		
Contact:	Gong Zhizhou		
E-mail	zhizhou.gong@tcl.com		
Tel:	0086-755-36611722		
Fax	0086-755-36612000-81722		
2.2. Manufacturer li	nformation		
Company Name:	TCL Communication Ltd.		
	F/E Duilding 20E 20 Oping a Dady East Avenue, Hang Kang Oping a		

Address:	5/F, Building 22E, 22 Science Park East Avenue, Hong Kong Science
	Park, Shatin, NT, Hong Kong
Contact:	Gong Zhizhou
E-mail	zhizhou.gong@tcl.com
Tel:	0086-755-36611722
Fax	0086-755-36612000-81722



# 3. Equipment UnderTest (EUT) and Ancillary Equipment (AE)

### 3.1. About EUT

Description	MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES
Model Name	TW18
FCC ID	2ACCJB162
Antenna Type	Internal Antenna
Condition of EUT as received	No obvious damage in appearance

Note: Components list, please refer to documents of the manufacturer; it is also included in the original test record of Shenzhen Academy of Information and Communications Technology.

### 3.2. Internal Identification of EUT

EUT ID*	SN or IMEI	HW Version	SW Version	Receive Date
UT02aa	1	Earphones HW Version: TW18_V1.1 Charging Box HW Version: TW18_V1.0	TW18_buds _1.0.0.5	2021-07-08

\*EUT ID: is used to identify the test sample in the lab internally.

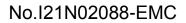
### 3.3. Internal Identification of AE

AE ID*	Description	
AE1	Charging Box	
AE2	Charger	
AE3	USB Cable	
AE4-1	The battery of Charging Box	
AE4-2	The battery of headset	
AE5	Mobile Phone	
AE1		
Model	TW18	
Manufacturer	TCL Communication Ltd.	
AE2		
Model	A152A-090200U-CN1	
Manufacturer	Dongguan Aohai Technology Co.,Ltd.	
AE3-1		
Model	20.27.007100	
Manufacturer	LIANCHUANG	
AE3-2		
Model	CDA0000128C2	
Manufacturer	SHENGHUA	
AE3-3		
Model	20.27.007400	



•

Manufacturer	LIANCHUANG
AE4-1	
Model	ZWD772040V
Manufacturer	ZHONGSHAN ZHONGWANGDE NEW ENERGY. TECHNOLOGY Co.,
	LTD.
Capacity	760mAh
Nominal	3.8V
AE4-2	
Model	YJ541011
Manufacturer	YJ POWER GROUP LIMITED
Capacity	45mAh
Nominal	3.7V
AE5	
Model	MATE30 PRO
Manufacturer	Huawei
*AE ID is used to ide	ntify the test sample in the lab internally.
AE: ancillary equipme	ent.
* AE3: The USB Cable of model 20.27.007100 (AE3-1) and 20.27.007400 (AE3-3) are the same	
except the the colour	:
AE2/AE3-2/AE5: Jus	t for test.





### 3.4. EUT set-ups

### EUT set-up No.

Set.1 Set.2

### Combination of EUT and AE

EUT+AE1+AE2+AE3-1+AE4-1+AE4-2 EUT+AE4-2+AE5





### 3.5. <u>General Description</u>

The Equipment Under Test (EUT) is a model of MOVEAUDIO S180 TRUE WIRELESS IN-EAR NC HEADPHONES with internal antenna weared on the left ear.

It has Bluetooth functions.

It consists of normal options: Charging Box, USB Cable and battery.

Samples (EUT+AE) undergoing test were selected by the Client. Relevant information is provided by the Client.



# 4. <u>Reference Documents</u>

### 4.1. <u>Reference Documents for testing</u>

The following documents listed in this section are referred for testing.

Reference	Title	Version
FCC Part 15,	Radio frequency devices	10-1-2019
Subpart B	Radio frequency devices	Edition
	Methods of Measurement of Radio-Noise Emissions from	
ANSI C63.4	Low-Voltage Electrical and Electronic Equipment in the	2014
	Range of 9 kHz to 40 GHz	



# 5. LABORATORY ENVIRONMENT

Semi-anechoic chamber did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 ℃, Max. = 35℃		
Relative humidity	Min. = 20 %, Max. = 75 %		
Shielding effectiveness	0.014MHz-1MHz,>60dB;		
	1MHz-18000MHz,>90dB		
Electrical insulation	>2MΩ		
Ground system resistance	<4Ω		
Normalised site attenuation (NSA)	<±4 dB, 3 m distance, from 30 to 1000 MHz		
Shield room did not exceed following lin	Shield room did not exceed following limits along the EMC testing:		
Temperature	Min. = 15 °C, Max. = 35 °C		
Relative humidity	Min. =20 %, Max. = 75 %		
Shielding effectiveness	0.014MHz-1MHz,>60dB;		
	1MHz-10000MHz,>90dB		
Electrical insulation	>2MΩ		
Ground system resistance	<4Ω		

Fully-anechoic chamber did not exceed following limits along the EMC testing:

9.10m×6.10m×5.60m (L×W×H)

Temperature	Min. = 15 °C, Max. = 35°C
Relative humidity	Min. = 20 %, Max. = 75 %
Shielding effectiveness	0.014MHz-1MHz,>60dB;
	1MHz-18000MHz,>90dB
Electrical insulation	>2MΩ
Ground system resistance	<4Ω
Voltage Standing Wave Ratio (VSWR)	≤ 6 dB, from 1 to 18GHz, 3 m distance
Uniformity of field strength	Between 0 and 6 dB, from 80 to 6000 MHz



# 6. SUMMARY OF TEST RESULTS

### 6.1. Testing Environment

Normal Temperature:	<b>15~35°</b> ℃
Relative Humidity:	20~75%
Atmospheric pressure	86~106kPa

### 6.2. <u>Summary of Measurement Results</u>

Abbreviations used in this clause:	
Р	Pass
NA	Not applicable
F	Fail

Items	Test Name	Clause in FCC rules	Section in this report	Verdict
1	Radiated Emission	15.109(a)	A.1	Р
2	Conducted Emission	15.107(a)	A.2	Р

### 6.3. Statement

#### 6.3.1 Statements of conformity

This report takes measured values as criterion of test conclusion. The test conclusion meets the limit requirements.



# 7. Measurement uncertainty

Test item	Frequency ranges	Measurement uncertainty
Radiated Emission	30MHz-1GHz	4.84dB(k=2)
	1GHz-18GHz	4.68dB(k=2)
Conducted Emission	150kHz-30MHz	3.00dB(k=2)

# 8. Test Facilities Utilized

NO.	NAME	TYPE	SERIES	PRODUCER	CAL. DUE	CAL.
			NUMBER		DATE	PERIOD
1.	Test Receiver	ESR7	101676	R&S	2021.12.25	1 year
2.	Test Receiver	ESCI	100701	R&S	2021.08.09	1 year
3.	Spectrum Analyzer	FSV40	101192	R&S	2022.01.13	1 year
4.	BiLog Antenna	3142E	0224831	ETS-Lindgren	2022.05.27	3 years
5.	LISN	ENV216	102067	R&S	2022.07.15	1 year
6.	Horn Antenna	3117	00066577	ETS-Lindgren	2022.04.02	3 years
7.	Chamber	FACT3-2.0	1285	ETS-Lindgren	2023.05.29	2 years
8.	Software	EMC32	V10.50.40	R&S	/	/

Note: CAL.: Calibration





### ANNEX A: MEASUREMENT RESULTS

#### A.1 Radiated Emission (§15.109(a))

#### Reference

FCC: CFR Part 15.109(a)

#### A.1.1 Method of measurement

The field strength of radiated emissions from the unintentional radiator (Data transfer mode of EUT and charging mode of EUT) at a distance of 3 meters is tested. Tested in accordance with the procedures of ANSI C63.4 -2014, section 8.3.

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

#### A.1.2 EUT Operating Mode:

**Charging Mode:** Put EUT into the charging box and connecting with Charger, enter the charging state.

**Normal Working:** EUT is powered on. Turn on the Bluetooth function of the mobile phone; establish a communication connection with the EUT, and mobile phone playing songs through EUT.

This device does not contains the receivers that tune and operate between 30MHz-960MHz.

All equipment is placed on the test tabletop and arranged in a typical configuration in accordance with ANSI C63.4-2014 and manipulated to obtain worst case emissions.

#### A.1.3 Measurement Limit

Limit from CFR Part 15.109(a)

Frequency range	Field strength limit (µV/m)			
(MHz)	Quasi-peak	Quasi-peak Average		
30-88	100			
88-216	150			
216-960	200			
960-1000	500			
>1000		500	5000	

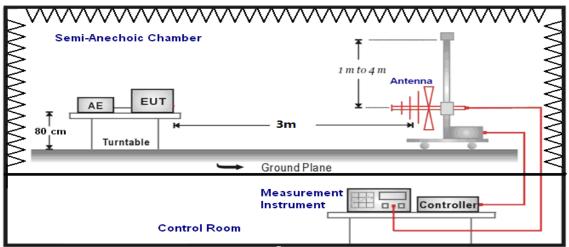
\*Note: The original limit is defined at 10m test distance. This limit is calculated according to CISPR requirements.

#### A.1.4 Test Condition

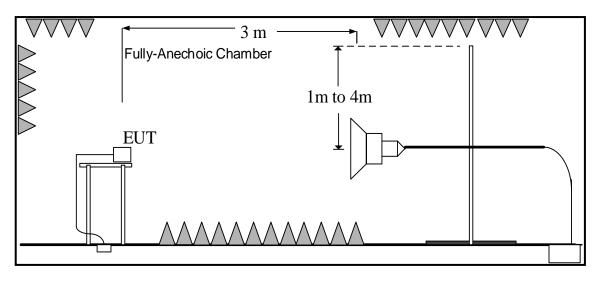
Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	120kHz (IF bandwidth)	5
Above 1000	1MHz/3MHz	15



#### A.1.5 Test set-up: 30MHz-1GHz



#### 1GHz-18GHz



#### A.1.6 Measurement Results

A "reference path loss" is established and the  $A_{Rpl}$  is the attenuation of "reference path loss". It includes the antenna factor of receive antenna and the path loss.

The measurement results are obtained as described below:

 $Result=P_{Mea}+A_{Rpl}=P_{Mea}+G_{A}+G_{PL}$ 

Where

G<sub>A</sub>: Antenna factor of receive antenna

 $G_{\text{PL}}$ :PathLoss

P<sub>Mea</sub>: Measurement result on receiver.

Result:Quasi-Peak(dBµV/m) /Average(dBµV/m)/Peak(dBµV/m)

Note: the result contains vertical part and Horizontal part



### Charging Mode

Frequency range (MHz)	Quasi-Peak Limit (dBµV/m)	Result (dBμV/m) UT02aa/Set.1	Conclusion
30-88	40.00		
88-216	43.50		D
216-960	46.02	See A.1 Fig.1.	Р
960-1000	54.00		

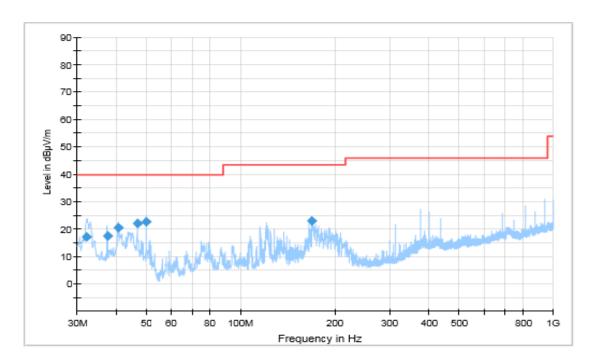
Frequency range	Average	Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	Limit (dBµV/m)	UT02aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See A.1 Fig.2.	Р
3000 to 18000	54.00	74.00	See A.1 Fig.3.	Р

#### Normal Working

Frequency range	Quasi-Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	UT02aa/Set.1	Conclusion
30-88	40.00		
88-216	43.50		P
216-960	46.02	See A.1 Fig.4.	P
960-1000	54.00		

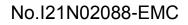
Frequency range	Average	Peak	Result (dBµV/m)	Conclusion
(MHz)	Limit (dBµV/m)	Limit (dBµV/m)	UT02aa/Set.1	Conclusion
1000 to 3000	54.00	74.00	See A.1 Fig.5.	Р
3000 to 18000	54.00	74.00	See A.1 Fig.6.	Ρ





Fi	nal_	Result

Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	PMea
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
32.311111	17.26	40.00	22.74	V	-31.8	49.06
37.510556	17.51	40.00	22.49	V	-36.5	54.01
40.636111	20.53	40.00	19.47	V	-31.5	52.03
46.873333	22.23	40.00	17.77	V	-33.8	56.03
49.998889	22.79	40.00	17.21	V	-19.7	42.49
168.770000	23.01	43.50	20.49	V	-18.5	41.51





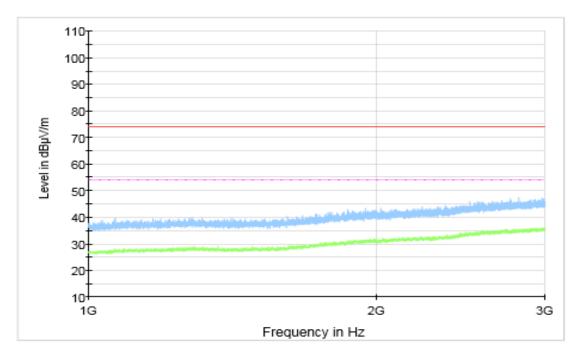


Fig.2. Radiated Emission (Charging Mode, 1GHz to 3GHz)



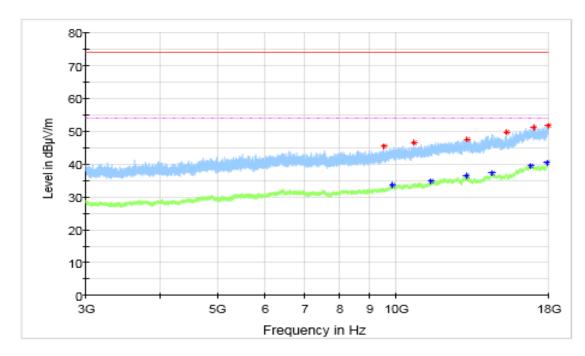


Fig.3. Radiated Emission (Charging Mode, 3GHz to 18GH
---

Final_	_Results_	_PK	
			Г

	Peak	Limit	Margin(dB)	Polority	ARpl	P <sub>Mea</sub>
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(ub)	Polarity	(dB/m)	(dBµV)
9516.500000	45.44	74.00	28.56	Н	4.1	41.34
10683.000000	46.46	74.00	27.54	V	5.7	40.76
13149.500000	47.58	74.00	26.42	V	9.7	37.88
15302.000000	49.86	74.00	24.14	V	12.2	37.66
17003.500000	51.25	74.00	22.75	V	15.7	35.55
17993.500000	51.80	74.00	22.20	Н	16.9	34.9
Final_Results_AVG						

Frequency(MHz)	Average (dBµV/m)	Limit (dBµV/m)	Margin(dB)	Polarity	ARpl (dB/m)	P <sub>Mea</sub> (dBµV)
9846.000000	33.57	54.00	20.43	Н	5.2	28.37
11434.000000	34.79	54.00	19.21	Н	6.8	27.99
13097.500000	36.47	54.00	17.53	V	9.8	26.67
14465.500000	37.34	54.00	16.66	Н	11.7	25.64
16784.000000	39.48	54.00	14.52	Н	15.9	23.58
17911.500000	40.58	54.00	13.42	V	17.3	23.28



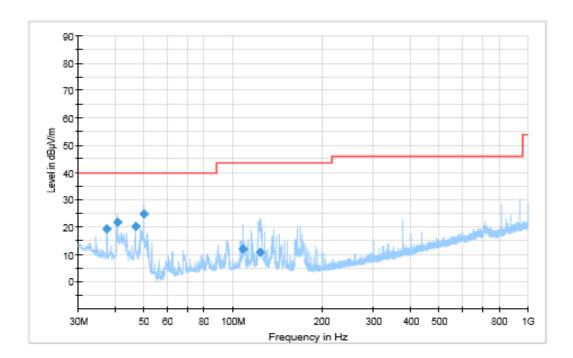
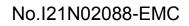


Fig.4.	<b>Radiated Emission</b>	(Normal Working.	30MHz to 1GHz)
		(	

Final\_Result

Frequency	QuasiPeak	Limit	Margin	Pol	ARpl	P <sub>Mea</sub>
(MHz)	(dBµV/m)	(dBµV/m)	(dB)		(dB/m)	(dBµV)
37.496667	19.30	40.00	20.70	V	-28.0	47.30
40.622222	21.95	40.00	18.05	V	-29.5	51.45
46.873333	20.27	40.00	19.73	V	-34.3	54.57
49.998889	24.81	40.00	15.19	V	-36.5	61.31
108.105000	12.14	43.50	31.36	V	-32.3	44.44
123.677222	10.93	43.50	32.57	V	-31.5	42.43





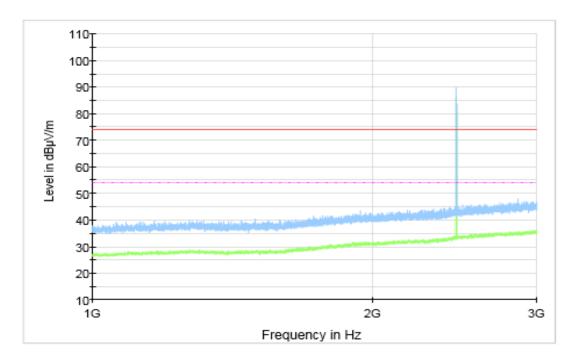


Fig.5. Radiated Emission (Normal Workingz, 1GHz to 3GHz)



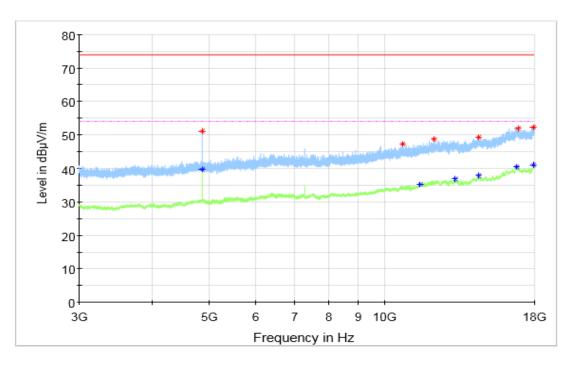


Fig.6.	Radiated Emission (Normal Working, 3GHz to 18GHz)
Final_Results_PK	

	Peak	Limit	Margin(dB)	Polarity	ARpl	P <sub>Mea</sub>
Frequency(MHz)	(dBµV/m)	(dBµV/m)	iviargin(ub)	Folanty	(dB/m)	(dBµV)
4865.000000	51.13	74.00	22.87	Н	0.0	51.13
10734.000000	47.39	74.00	26.61	V	6.4	40.99
12142.500000	48.85	74.00	25.15	V	8.2	40.65
14485.500000	49.36	74.00	24.64	V	11.7	37.66
16885.500000	52.08	74.00	21.92	V	16.1	35.98
17949.000000	52.43	74.00	21.57	V	17.2	35.23
Final_Results_AVG	6					
	Average	Limit		Delerity	ARpl	P <sub>Mea</sub>
Frequency(MHz)	(dBµV/m)	(dBµV/m)	Margin(dB)	Polarity	(dB/m)	(dBµV)
4865.000000	39.76	54.00	14.24	Н	0.0	39.76
11484.000000	35.25	54.00	18.75	Н	6.8	28.45
13190.000000	36.82	54.00	17.18	Н	9.8	27.02
14461.500000	37.84	54.00	16.16	Н	11.8	26.04
16805.500000	40.40	54.00	13.60	Н	15.8	24.6

54.00

41.17

17942.500000

23.97

Н

17.2

12.83



### A.2 Conducted Emission (§15.107(a)) Reference

FCC: CFR Part 15.107(a)

### A.2.1 Method of measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150kHz to 30MHz shall not exceed the limits. Tested in accordance with the procedures of ANSI C63.4 -2014, section 7.3.

#### A.2.2 EUT Operating Mode:

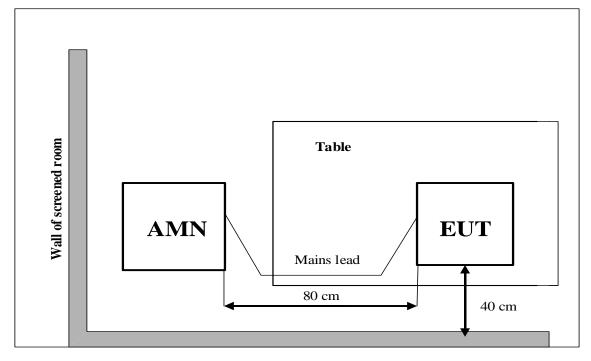
**Charging Mode:** Put EUT into the charging box and connecting with Charger, enter the charging state.

#### A.2.3 Measurement Limit

Frequency of emission (MHz)	Conducted limit (dBµV)				
	Quasi-peak	Average			
0.15-0.5	66 to 56*	56 to 46*			
0.5-5	56	46			
5-30 60 50					
*Decreases with the logarithm of the frequency					



#### A.2.4Test set-up:



#### A.2.5 Test Condition in charging mode

Voltage (V)	Frequency (Hz)
120	60
240	60

RBW	Sweep Time(s)
9kHz	1

#### A.2.6 Measurement Results

QuasiPeak(dBµV) /Average(dBµV) =PMea+Corr Where

Corr: PathLoss + Voltage Division Factor

PMea: Measurement result on receiver.

Charging Mode

AC Input Port/ Voltage: 120V/60Hz

Frequency range	Quasi-peak Average Limit		Result (dBµV)	Conclusion	
(MHz)	Limit (dBµV) (dBµV)		UT02aa/Set.1	Conclusion	
0.15 to 0.5	66 to 56				
0.5 to 5	0.5 to 5 56		See A.2 Fig.1.	Р	
5 to 30	60	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to					

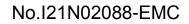
0.5 MHz.



# Charging Mode

AC Input Port/ Voltage: 240V/60Hz

Frequency range	Quasi-peak	Average Limit	Result (dBµV)	Conclusion	
(MHz)	Limit (dBµV)	(dBµV)	UT02aa/Set.1		
0.15 to 0.5	66 to 56	56 to 46			
0.5 to 5	56	46	See A.2 Fig.2.	Р	
5 to 30	60	50			
NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to					
0.5 MHz.					





### AC Input Port/ Voltage: 120V/60Hz

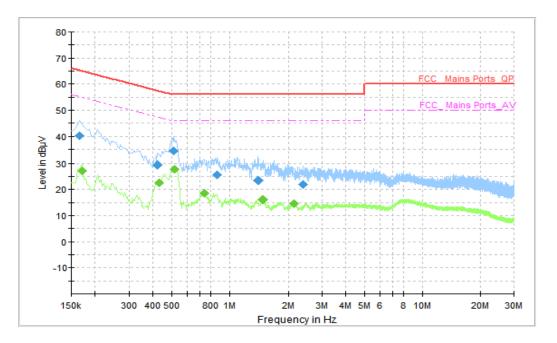


Fig.1.	Conducted Emission(Charging Mode)	
--------	-----------------------------------	--

Final_Result_QP	K					
Frequency	QuasiPeak	Limit	Margin	Line	Corr.	P <sub>Mea</sub>
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.166000	40.27	65.16	24.89	N	10	30.27
0.422000	29.26	57.41	28.15	N	10	19.26
0.514000	34.42	56.00	21.58	N	10	24.42
0.866000	25.56	56.00	30.44	L1	10	15.56
1.410000	23.53	56.00	32.47	L1	10	13.53
2.382000	21.80	56.00	34.20	L1	10	11.80
Final_Result_AV	G					·
Frequency	Average	Limit	Margin	Line	Corr.	P <sub>Mea</sub>
(MHz)	(dBµV)	(dBµV)	(dB)		(dB)	(dBµV)
0.170000	26.99	54.96	27.97	Ν	10	16.99
0.430000	22.40	47.25	24.85	Ν	10	12.40
0.518000	27.62	46.00	18.38	Ν	10	17.62
0.742000	18.57	46.00	27.43	Ν	10	8.57
1.482000	16.08	46.00	29.92	Ν	10	6.08
2.154000	14.62	46.00	31.38	Ν	10	4.62



### AC Input Port/ Voltage: 240V/60Hz

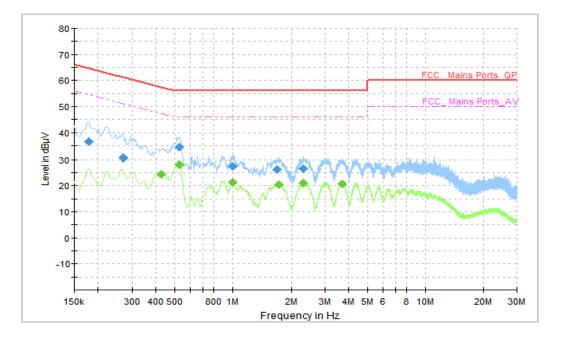


Fig.2.	Conducted Emission( Charging Mode )
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nal_Result_QP	к		,	00	,	
Frequency (MHz)	QuasiPeak (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	Ρ <sub>Mea</sub> (dBμV)
0.178000	36.48	64.58	28.09	N	10	26.48
0.270000	30.31	61.12	30.80	N	10	20.31
0.526000	34.31	56.00	21.69	N	10	24.31
1.002000	27.45	56.00	28.55	N	10	17.45
1.694000	26.03	56.00	29.97	N	10	16.03
2.322000	26.50	56.00	29.50	N	10	16.50
nal_Result_AV	G				I	
Frequency (MHz)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)	P <sub>Mea</sub> (dBµV)
0.426000	24.29	47.33	23.04	N	10	14.29
0.526000	27.97	46.00	18.03	N	10	17.97
1.002000	21.23	46.00	24.77	N	10	11.23
1.718000	20.30	46.00	25.70	N	10	10.30
2.326000	20.88	46.00	25.12	N	10	10.88
3.686000	20.78	46.00	25.22	N	10	10.78

\*\*\*END OF REPORT\*\*\*