

# Shenzhen Toby Technology Co., Ltd.

Report No.: TB-FCC143871 Page: 1 of 22

# FCC 15B Test Report FCC ID: 2AEJ6-FF518RX

# **Original Grant**

Report No. : TB-FCC143871

**Applicant**: ZheJiang Lucky Manufacturer Co.,Ltd

**Equipment Under Test (EUT)** 

**EUT Name**: Fish Finder

Model No. : FF518

Serial No. : K-FF518

Brand Name : Lucky

**Receipt Date** : 2015-02-02

**Test Date** : 2015-02-02 to 2015-04-10

**Issue Date** : 2015-04-13

**Standards**: FCC Part 15: 2014, Subpart B, Class B

Test Method : ANSI C63.4-2014

**Conclusions : PASS** 

In the configuration tested, the EUT complied with the standards specified above,

The EUT technically complies with the FCC requirements

Test/Witness Engineer :

Approved& Authorized :

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in the report.

TB-RF-074-1.0



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# 1. General Information about EUT

# 1.1 Client Information

Applicant	:	ZheJiang Lucky Manufacturer Co.,Ltd
Address	:	NO.2198 Cuntong Road, Jindong Industrial Zone, JinHua City,
		ZheJiang Province, China
Applicant	:	ZheJiang Lucky Manufacturer Co.,Ltd
Address	:	NO.2198 Cuntong Road, Jindong Industrial Zone, JinHua City,
		ZheJiang Province, China

# 1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Fish Finder
Brand Name	:	Lucky
Model No.	:	FF518, K-FF518
Model difference	:	All models are identical in the same PCB layout, interior structure and electrical circuits, The only difference is model name for commercial purpose.
Modulation	: N/A	
Operating Frequency	:	433.82MHz Receive
Power Supply	:	DC Voltage supplied from AC/DC adapter DC Voltage supplied from Car Charger DC power by Li-ion battery
Power Rating		Car Charger: Input: DC 12V Output: DC 5V 500mAh AC/DC Adapter: Input: AC 100~240V, 50/60 Hz Output: DC 5V 500mAh DC 3.7V by 1200 mAh Li-ion Battery.

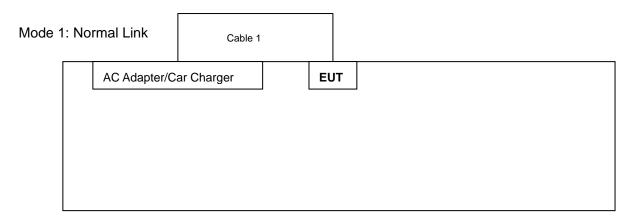
Note: For more detailed features description, please refer to the manufacturer's

specifications or the User's Manual.



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# 1.3 Block Diagram Showing the Configuration of System Tested



Note: During Testing the EUT was in receiving mode.

# 1.4 Description of Support Units

Equipment Information									
Name	Model	DOC/FCC ID	Manufacturer	Used "√"					
	C	able Information							
Number	Shielded Type	Ferrite Core	Length	Note					
Cable 1	YES	NO	0.8M	Accessorise					

# 1.5 Description of Test Mode

Mode	Description
Mode 1	AC Charger with Normal Link
Mode 2	Car Charger with Normal Link

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of the EUT operation mode, and the maximum emission levels of the conducted and radiated emissions are compared to the FCC Part 15 Subpart B (Class B) limits.



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#### 1.6 Measurement Uncertainty

The reported uncertainty of measurement  $y \pm U_1$ , where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of  $k=2_1$  providing a level of confidence of approximately 95 %.

Test Item	Parameters	Expanded Uncertainty (U <sub>Lab</sub> )
	Level Accuracy:	
Conducted Emission	9kHz~150kHz	±3.42 dB
	150kHz to 30MHz	±3.42 dB
Radiated Emission	Level Accuracy:	±4.60 dB
Radiated Emission	9kHz to 30 MHz	±4.00 db
Radiated Emission	Level Accuracy:	±4.40 dB
Radiated Emission	30MHz to 1000 MHz	±4.40 dB
Radiated Emission	Level Accuracy:	. 4. 20. dB
Radiated Emission	Above 1000MHz	±4.20 dB

## 1.7 Test Facility

The testing report were performed by the Shenzhen Toby Technology Co., Ltd., in their facilities located at 1A/F., Bldg.6, Yusheng Industrial Zone, The National Road No.107 Xixiang Section 467, Xixiang, Bao'an, Shenzhen, Guangdong, China. At the time of testing, the following bodies accredited the Laboratory:

#### **CNAS (L5813)**

The Laboratory has been accredited by CNAS to ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories for the competence in the field of testing. And the Registration No.: CNAS L5813.

#### FCC List No.: (811562)

The Laboratory is listed in the United States of American Federal Communications Commission (FCC), and the registration number is 811562.

#### IC Registration No.: (11950A-1)

The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing. The site registration: Site# 11950A-1.

May 22, 2014 certificated by TUV Rheinland(China) Co., Ltd. with TUV certificate No.: UA 50282953 0001 and report No.: 17026822 002. The certificate is valid until the next scheduled audit or up to 18 months, at the discretion of TUV Rhineland.



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# 2. Test Summary

FCC Part15, Subpart B									
Section Test Method Test Item Limit Judgment									
15.109	ANSI C63.4:2014	Radiated Emission (30M~1GHz)	Class B	PASS					
15.107	ANSI C63.4:2014	Conducted Emission (150KHz to 30MHz)	Class B	PASS					
Note: N/A is an a	bbreviation for Not Applica	ble.	•	•					

# 3. Test Equipment

Conducted Emission Test							
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date		
EMI Test Receiver	Rohde & Schwarz	ESCI	100321	Aug. 08, 2014	Aug. 07, 2015		
RF Switching Unit	Compliance Direction Systems Inc	RSU-A4	34403	Aug. 08, 2014	Aug. 07, 2015		
AMN	SCHWARZBECK	NNBL 8226-2	8226-2/164	Aug. 08, 2014	Aug. 07, 2015		
LISN	Rohde & Schwarz	ENV216	101131	Aug. 08, 2014	Aug. 07, 2015		
Radiation Er	nission Test		-				
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Due Date		
Spectrum Analyzer	Agilent	E4407B	MY45106456	Aug. 08, 2014	Aug.07, 2015		
Spectrum Analyzer	Rohde & Schwarz	FSP30	DE25181	Aug. 08, 2014	Aug.07, 2015		
EMI Test Receiver	Rohde & Schwarz	ESCI	101165	Aug. 08, 2014	Aug.07, 2015		
Bilog Antenna	ETS-LINDGREN	3142E	00117537	Mar. 06, 2015	Mar.05, 2016		
Horn Antenna	ETS-LINDGREN	3117	00143207	Mar. 06, 2015	Mar.05, 2016		
Pre-amplifier	HP	11909A	185903	Mar. 06, 2015	Mar.05, 2016		
Pre-amplifier	HP	8447B	3008A00849	Mar. 06, 2015	Mar.05, 2016		
Cable	HUBER+SUHNER	100	SUCOFLEX	Mar. 06, 2015	Mar.05, 2016		
Signal Generator	Rohde & Schwarz	SML03	IKW682-054	Feb. 10, 2015	Feb.09, 2016		
Positioning Controller	ETS-LINDGREN	2090	N/A	N/A	N/A		



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## 4. Conducted Emission Test

#### 4.1 Test Standard and Limit

4.1.1Test Standard FCC Part 15.107

#### 4.1.2 Test Limit

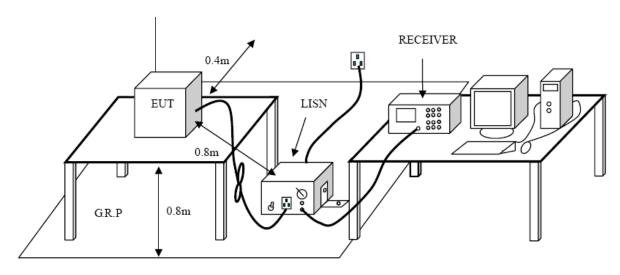
#### **Conducted Emission Test Limit**

Frequency	Conducted Limit (dBuV)			
(MHz)	Quasi-peak Level	Average Level		
0.15~0.5	66 ~ 56 *	56 ~ 46 *		
0.5~5.0	56.00	46.00		
5.0~30.0	60.00	50.00		

Notes:(1) \*Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequencies.

## 4.2 Test Setup



#### 4.3 Test Procedure

The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/50uH of coupling impedance for the measuring instrument.

Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.

I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance.



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The overall length shall not exceed 1 m.

LISN at least 80 cm from nearest part of EUT chassis.

The bandwidth of EMI test receiver is set at 9kHz, and the test frequency band is from 0.15MHz to 30MHz.

For the actual test configuration, please refer to the EUT test Photos.

## 4.4 EUT Operating Mode

(1) Setup the EUT and peripherals refer to the description of test mode.

#### 4.5 Deviation

The test is no deviation from the standard.

#### 4.5 Test Data

Please see the next page.



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EUT:	Fish Finder	ſ	Model Name	:	FF518	
Temperature:	25 ℃		Relative Humidity: 55%			
Test Voltage:	AC 120V/6	0Hz				
Terminal:	Line					
Test Mode:	AC Charge	r with Normal L	.ink			
Remark:	Only worse	case is reporte	ed			
90.0 dBuV						
					QP: AVG:	
40						
manufanno de	Amanghan da ana	i harria da cambanan dallaman	with the state of	pptabelladar.ml.r.m	harrandaphanasaha	markandaliya
	a controller Arthredwell	of Alemania Contraction and an analysis of the contraction of	An Araba Artin Andrew			bulan dadi III
	The state of the s	April 2 Age And Advantage of the contraction of	ally and the second of the sec	Manage	of the second	AAC ANTINITY AVG
-10			5			
0.150	0.5	(MHz)	5			30.000
	Rea	-		1 : :4	0	
	req. Lev			Limit	Over	
	lHz dB		dBuV	dBuV	dB	Detector
1 0.2	300 2.	75 10.02	12.77	62.45	-49.68	QP
2 0.2	300 -1.	77 10.02	8.25	52.45	-44.20	AVG
3 0.3	700 0.	13 10.02	10.15	58.50	-48.35	QP
4 0.3	700 -4.	53 10.02	5.49	48.50	-43.01	AVG
5 1.8	740 -0.	49 10.06	9.57	56.00	-46.43	QP
6 1.8	740 -4.	97 10.06	5.09	46.00	-40.91	AVG
7 2.5	420 0.	06 10.04	10.10	56.00	-45.90	QP
		75 10.04		46.00		AVG
		10 10.00			-49.90	QP
		85 10.00		50.00		AVG
	020 11.			60.00		QP
12 * 8.0	020 10.	12 10.09	20.21	50.00	-29.79	AVG
Emission Level=	Read Level	+ Correct Fact	or			



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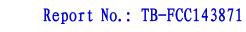
EUT:	Fish Finder		Model Name	:	FF518				
Temperature:	Relative Hum	idity:	55%						
Test Voltage:	AC 120V/60H	AC 120V/60Hz							
Terminal:	Neutral								
Test Mode:	AC Charger w	ith Normal L	ink						
Remark:	Only worse ca	se is reporte	ed						
90.0 dBuV					QP:	_			
					AVG:	_			
40									
			,	, ×		×			
water was	www.whaterwalker.who.dalage	hapen belefor he he he he he he he he	Mariet Ma	Harriani	HANGARANA MANALAM	peak			
	war was the way of the way to be the same of the same	where we will the second				White AVG			
-10 0.150	0.5	(MHz)	5			30.000			
No. Mk. Fr	Reading req. Level	g Correct Factor		Limit	Over				
	1Hz dBuV	dB	dBuV	dBuV	dB	Detector			
1 0.1	780 1.02	10.12	11.14	64.57	-53.43	QP			
2 0.1	780 -3.80	10.12	6.32	54.57	-48.25	AVG			
	900 2.10	10.09			-48.33	QP			
	900 -2.28	10.09			-42.71	AVG			
	420 -0.31	10.06			-46.25	QP			
-	420 -4.97	10.06			-40.91	AVG			
	980 0.13	10.06			-49.81	QP			
	980 -4.89	10.06			-44.83	AVG			
	020 10.98	10.09			-38.93	QP			
	020 10.07	10.09			-29.84	AVG			
11 21.1		10.06		60.00	-47.54	QP			
12 21.1	740 -2.58	10.06	7.48	50.00	-42.52	AVG			
Emission Level=	Read Level+ C	orrect Facto	or						



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EUT:	Fish Finder		Model Name :	FF518	1						
Temperature:	25 °C		Relative Humidity								
Test Voltage:	DC 12V		· · · · · · · · · · · · · · · · · · ·	- 0070							
Terminal:	Line										
Test Mode:	Car Charge	er Charging Mo	de								
Remark:	Remark: Only worse case is reported										
90.0 dBuV											
-10 0.150	0.5	(MHz)	5	QP: AVG:	peak AVG						
No. Mk. F		ading Correctivel Factor	1.1	nit Over							
	MHz dE	BuV dB	dBuV dBı	uV dB	Detector						
1 * 0.	1580 52	.30 11.25	63.55 65.	56 -2.01	QP						
2 0.	1580 41	.43 11.25	52.68 55.	56 -2.88	AVG						
3 0.2	2260 47	.62 10.64	58.26 62.	59 -4.33	QP						
4 0.2	2260 38	.98 10.64	49.62 52.	59 -2.97	AVG						
5 0.	3620 45	.16 10.25	55.41 58.	68 -3.27	QP						
6 0.3	3620 29	.06 10.25	39.31 48.	68 -9.37	AVG						
7 0.5	5899 43	.87 9.91	53.78 56.	00 -2.22	QP						
8 0.9	5899 33	.31 9.91	43.22 46.	00 -2.78	AVG						
9 0.8	8139 43	.01 10.01	53.02 56.	00 -2.98	QP						
10 0.8	8139 28	.45 10.01	38.46 46.	00 -7.54	AVG						
11 0.9	9939 41	.46 9.90	51.36 56.	00 -4.64	QP						
12 0.9	9939 26	.22 9.90	36.12 46.	00 -9.88	AVG						





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EUT:	Fish Finder		Model Name :		FF518					
Temperature:	25 ℃		Relative Humi	dity:	55%					
Test Voltage:	DC 12V									
Terminal:	Neutral									
Test Mode: Car Charger Charging Mode										
Remark: Only worse case is reported										
40 × × × × × × × × × × × × × × × × × × ×					QP: AVG:	peak AVG				
0.150	0.5	(MHz)	5			30.000				
No. Mk. Fr	Reading eq. Level	Correct Factor		Limit	Over					
M	Hz dBuV	dB	dBuV	dBuV	dB	Detector				
1 * 0.1	580 52.30	11.25	63.55	35.56	-2.01	QP				
2 0.1	580 41.43	11.25	52.68	55.56	-2.88	AVG				
3 0.2	260 47.62	10.64	58.26	32.59	-4.33	QP				
4 0.2	260 38.98	10.64	49.62	52.59	-2.97	AVG				
5 0.30	620 45.16	10.25	55.41	58.68	-3.27	QP				
6 0.3	620 29.06	10.25	39.31	48.68	-9.37	AVG				
7 0.5	899 43.87	9.91	53.78	56.00	-2.22	QP				
8 0.5	899 33.31	9.91	43.22	46.00	-2.78	AVG				
9 0.8	139 43.01	10.01	53.02	56.00	-2.98	QP				
10 0.8	139 28.45	10.01	38.46	46.00	-7.54	AVG				
11 0.99	939 41.46	9.90	51.36	56.00	-4.64	QP				
12 0.99	939 26.22	9.90	36.12	46.00	-9.88	AVG				
Emission Level=	Read Level+ Corre	ect Facto	or							



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## 5. Radiated Emission Test

#### 5.1 Test Standard and Limit

5.1.1 Test Standard FCC Part 15.109

5.1.2 Test Limit

#### **Radiated Emission Limit**

Frequency (MHz)	Field Strength (dBuV/m)	Measurement Distance (meters)
30~88	40	3
88~216	43.5	3
216~960	46	3
Above 960	54	3

Note: Emission Level(dBuV/m)=20log Emission Level(uV/m)

For unintentional radiators (FCC Part 15, section 15.33(1)):

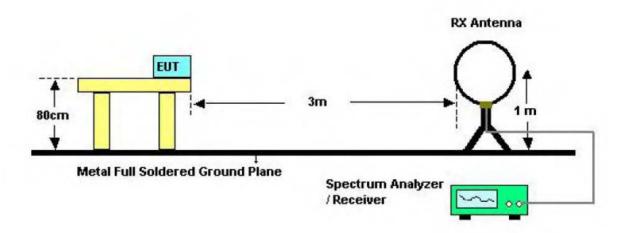
Except as otherwise indicated in paragraphs (b)(2) or (b)(3), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device	Upper frequency of measurement range (MHz)
operates or tunes (MHz)	
Below 1.705	30
1.705~108	1000
108~500	2000
500~1000	5000
Above 1000	5 <sup>th</sup> harmonic of the highest frequency or
	40 GHz, whichever is lower

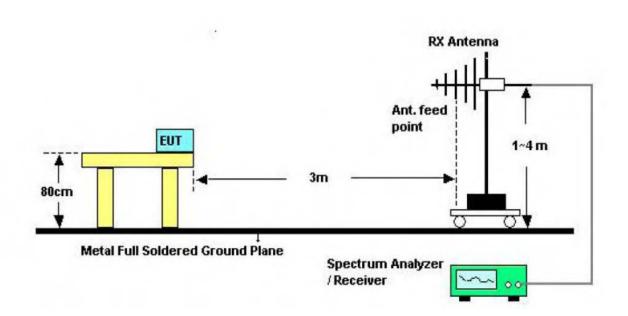
# 5.2 Test Setup



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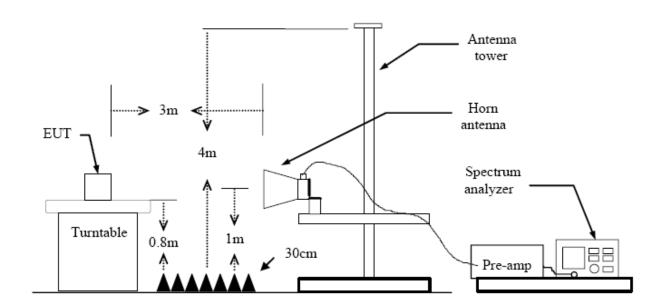
Bellow 30MHz Test Setup



30MHz to 1000MHz Test Setup



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Above 1GHz Test Setup

#### 5.3 Test Procedure

- (1) The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1 GHz. The EUT was placed on a rotating 0.8m high above ground, the table was rotated 360 degrees to determine the position of the highest radiation.
- (2) Measurements at frequency above 1GHz. The EUT was placed on a rotating 0.8m high above the ground. RF absorbers covered the ground plane with a minimum area of 3.0m by 3.0m between the EUT and measurement receiver antenna. The RF absorber shall not exceed 30cm in high above the conducting floor. The table was rotated 360 degrees to determine the position of the highest radiation.
- (3) The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set to make measurement.
- (4) The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- (5) If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit Bellow 1 GHz, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. But the Peak Value and average value both need to comply with applicable limit above 1 GHz.
- (6) Testing frequency range below 1GHz the measuring instrument use VBW=120 kHz with Quasi-peak detection.
- (7) Testing frequency range above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10 Hz with Peak Detector for Average Values.
- (8) For the actual test configuration, please see the test setup photo.



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## 5.4 EUT Operating Condition

(1) Setup the EUT and peripherals refer to the description of test mode.

#### 5.5 Deviation

The test is no deviation from the standard.

#### 5.6 Test Data

Remark: During testing above 1GHz the measuring instrument use RBW=1 MHz and VBW=3 MHz with Peak Detector for Peak Values, and use RBW=1 MHz and VBW=10Hz with Peak Detector for Average Values.

Test data please refer the following pages.



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# (1) Bellow 1GHz

EUT:	Fish Find	der	Model Name :		FF518			
Temperature:	25 ℃		Relative Humi	dity:	55%			
Test Voltage:	AC 120\	C 120V/60Hz						
Ant. Pol.	Horizont	Horizontal						
Test Mode:	AC Char	AC Charger with Normal Link						
Remark:	Only wo	se case is report	ed					
80.0 dBuV/m								
30	man hope and	2 X X X X X X X X X X X X X X X X X X X	A A A A A A A A A A A A A A A A A A A	5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5B 3M Radiation Margin -6 c			
-20 30.000 40 50	D 60 70 80	(MHz)	300	400 500	D 600 700	1000.000		
No. Mk. F		eading Correct.evel Facto		Limit	Over			
N	ИНZ	dBuV dB/m	dBuV/m	dBuV/m	dB	Detector		
1 92.	4624 4	1.50 -22.48	19.02	43.50	-24.48	peak		
2 143	.8294 4	9.00 -21.67	27.33	43.50	-16.17	peak		
3 287	.9904 5	52.11 -17.32	34.79	46.00	-11.21	peak		
4 352	.9433 4	4.61 -14.59	30.02	46.00	-15.98	peak		
- + 100	F 400 F		22.22	40.00				

423.5403

848.0562

5

6

**Emission Level= Read Level+ Correct Factor** 

52.12

42.35

-12.92

-6.66

39.20

35.69

46.00

46.00

-6.80

-10.31

peak

peak

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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EUT:	Fish Finder		Model Name	e :	FF518					
Temperature:	<b>25</b> ℃		Relative Hu	midity:	55%					
Test Voltage:	AC 120V/60Hz									
Ant. Pol.	Vertical	/ertical								
Test Mode:	AC Charger with	Normal Lin	k							
Remark:	Only worse case	is reported								
30 dBuV/m	60 70 80	3 X (MHz)	× × × × × × × × × × × × × × × × × × ×	5 *	15B 3M Radiatio Margin -6	dB				
No. Mk. Fre	Reading eq. Level	Correct Factor	Measure- ment	Limit	Over					
MH	Hz dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector				
1 * 71.83	319 53.53	-23.56	29.97	40.00	-10.03	peak				
2 94.42	283 51.76	-22.30	29.46	43.50	-14.04	peak				
3 143.8	3294 53.70	-21.67	32.03	43.50	-11.47	peak				
4 287.9	9904 52.48	-17.32	35.16	46.00	-10.84	peak				
5 423.5	5403 41.56	-12.92	28.64	46.00	-17.36	peak				
6 576.6	38.86	-10.09	28.77	46.00	-17.23	peak				



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25 °C DC 12V Horizontal	R	Relative Hum	idity:	55%					
			_	_					
Horizontal		C 12V							
orizontal									
Car Charger with I	Normal Lin	k							
Only worse case is	s reported								
			(RF)FCC 15C	3M Radiation					
			-	Margin -6 dE	<u>'</u>				
	2		×						
*		3 X X X	Municipalita	جغا <b>م فال</b> امتول متوجاس	Johnson				
50 70 80	(MHz)	300	400 500	600 700	1000.000				
Reading eq. Level	Correct Factor	Measure- ment	Limit	Over					
z dBuV	dB/m	dBuV/m	dBuV/m	dB	Detecto				
319 49.33	-23.56	25.77	40.00	-14.23	peak				
294 60.07	-21.67	38.40	43.50	-5.10	peak				
240 49.76	-19.70	30.06	46.00	-15.94	peak				
904 52.54	-17.32	35.22	46.00	-10.78	peak				
091 39.71	-14.81	24.90	46.00	-21.10	peak				
403 55.34	-12.92	42.42	46.00	-3.58	peak				
	Reading Level dBuV 49.33 294 60.07 240 49.76 904 52.54 091 39.71	Reading Correct Factor dBuV dB/m 49.33 -23.56 294 60.07 -21.67 240 49.76 -19.70 904 52.54 -17.32 091 39.71 -14.81	Reading Correct Measure-ment  Z dBuV dB/m dBuV/m  19 49.33 -23.56 25.77  294 60.07 -21.67 38.40  240 49.76 -19.70 30.06  904 52.54 -17.32 35.22  091 39.71 -14.81 24.90	Reading Correct Measure-Limit    ABuV   ABuV   ABuV/m	Reading Correct Measure- Reading Correct Measure- Reading Gament Limit Over    Abuv   Abuv/m   Abuv/m				



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UT:	Fish	r Finde	er	Mod	Model Name : FF			FF518	
emperature:	25	$^{\circ}$		Rela	tive Hun	nidity:	55%		
est Voltage:	DC	12V							
nt. Pol.	Vert	tical							
est Mode:	Car	Charg	ger with No	rmal Link					
lemark:	Only	y wors	e case is r	eported					
80.0 dBuV/m	"								
						FCC	158 3M Ra		
						e ×	Marg	gin -6 dB	+
30		1 X	I I MAPL	3 3	* * * * * * * * * * * * * * * * * * *		المالحس المهام	videla ada tech	h Marin
20	groundhouse breen	J' M((.+W)	VUVVIII .	. Manka					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		45.5347	53.56	-22.51	31.05	40.00	-8.95	peak
2		71.8319	49.06	-23.56	25.50	40.00	-14.50	peak
3		139.3611	51.14	-22.00	29.14	43.50	-14.36	peak
4	*	143.8294	59.80	-21.67	38.13	43.50	-5.37	peak
5		216.0240	47.84	-19.70	28.14	46.00	-17.86	peak
6	!	423.5403	53.19	-12.92	40.27	46.00	-5.73	peak

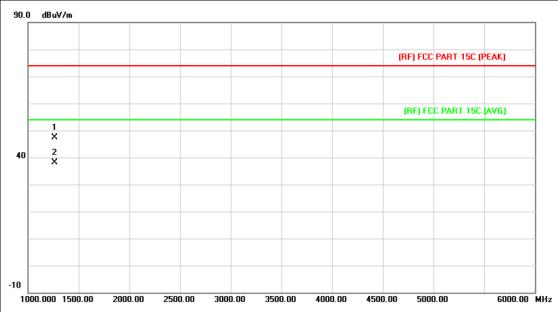
<sup>\*:</sup>Maximum data x:Over limit !:over margin



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# (2) Above 1 GHz

EUT:	Fish Finder	Model Name :	FF518				
Temperature:	25 ℃	Relative Humidity:	55%				
Test Voltage:	DC 3.7V	DC 3.7V					
Ant. Pol.	Horizontal						
Test Mode:	Normal Link						
Remark: Only worse case is reported							



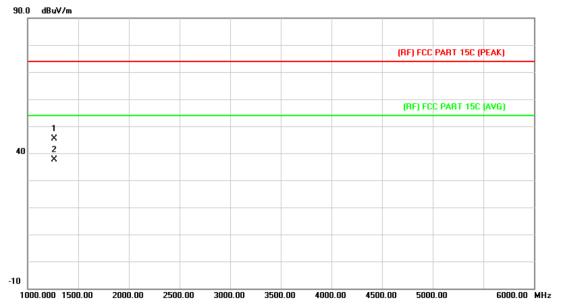
No	. Mk	Freq.	_	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1			52.57		47.26	74.00	-26.74	peak
2	*	1264.687	43.55	-5.31	38.24	54.00	-15.76	AVG

<sup>\*:</sup>Maximum data x:Over limit !:over margin



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EUT:	Fish Finder	Model Name :	FF518		
Temperature:	25 ℃	Relative Humidity:	55%		
Test Voltage: DC 3.7V					
Ant. Pol. Vertical					
Test Mode:	Normal Link				
Remark:	Only worse case is reported	ed			
90.0 dBuV/m					



N	o. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector
1			1264.687	50.62	-5.31	45.31	74.00	-28.69	peak
2	*	r	1264.687	42.96	-5.31	37.65	54.00	-16.35	AVG

<sup>\*:</sup>Maximum data x:Over limit !:over margin