APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
Ectosense NV

Airpatch Charger
Model No.: DEV00106

FCC ID: 2ASBE-DEV00106

Prepared for	:	Ectosense NV
Address	:	Bosbessenlaan 19a, Rotselaar, 3110 Belgium
Prepared by	:	Shenzhen Accurate Technology Co., Ltd.
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Report No.	:	ATE20190037
Date of Test	:	January 14-January 16, 2019
Date of Report	:	January 18, 2019

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Test Report Declaration

Applicant	:	Ectosense NV
Address	:	Bosbessenlaan 19a, Rotselaar, 3110 Belgium
Manufacturer	:	Ectosense NV
Address	:	Bosbessenlaan 19a, Rotselaar, 3110 Belgium
Product	:	Airpatch Charger
Model No.	:	DEV00106
Trade Mark	:	NightOwl

Measurement Procedure Used:

FCC CFR47 Part 18 Subpart C Section 18.305 and 18.307
ANSI C63.10: 2013

The device described above is tested by Shenzhen Accurate Technology Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 Subpart C limits both radiated and conducted emissions. The measurement results are contained in this test report and Shenzhen Accurate Technology Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Shenzhen Accurate Technology Co., Ltd.

Date of Test :	January 14-January 16, 2019
Date of Report :	January 18, 2019
Prepared by :	(Star Yang, Engineer)
Approved & Authorized Signer :	(Sean Liu, Manager)

1. TEST RESULTS SUMMARY

Test Items	Test Standard	Test Results
AC Power Line Conducted Emission	FCC Part 18.307(b)	Pass
Radiated Emission	FCC Part 18.305(b)	Pass

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Product	:	Airpatch Charger
Model No.	:	DEV00106
Frequency	:	110-205KHz
Modulation Type	:	ASK
Type of Antenna	:	Induction coil
AC Adapter Rating	:	Model: SWN6-5-NH-I38 Input: 100-240Vac, 0.6-0.3A, 50-60Hz Output: 5V⎓1.2A

2.2.Test Mode

Test Item	EMI Test Modes
Conducted Emission	Max. Power Output
Radiated Emission	Max. Power Output

2.3.Special Accessory and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Airpatch Sensor	Ectosense NV	DEV00093	N/A

Note: Wireless charger load is provided by manufacturer

2.4.Description of Test Facility

EMC Lab	:	Recognition of accreditation by Federal Communications Commission (FCC) The Designation Number is CN1189 The Registration Number is 708358 Listed by Innovation, Science and Economic Development Canada (ISEDC) The Registration Number is 5077A-2 Accredited by China National Accreditation Service for Conformity Assessment (CNAS) The Registration Number is CNAS L3193 Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01
Name of Firm	:	Shenzhen Accurate Technology Co., Ltd
Site Location	:	1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

2.5.Measurement Uncertainty

Conducted emission expanded uncertainty	:	U=2.23dB, k=2
Radiated emission expanded uncertainty (9kHz-30MHz)	:	U=3.08dB, k=2
Radiated emission expanded uncertainty (30MHz-1000MHz)	:	U=4.42dB, k=2
Radiated emission expanded uncertainty (Above 1GHz)	:	U=4.06dB, k=2

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. The Equipment Used to Measure Conducted Disturbance

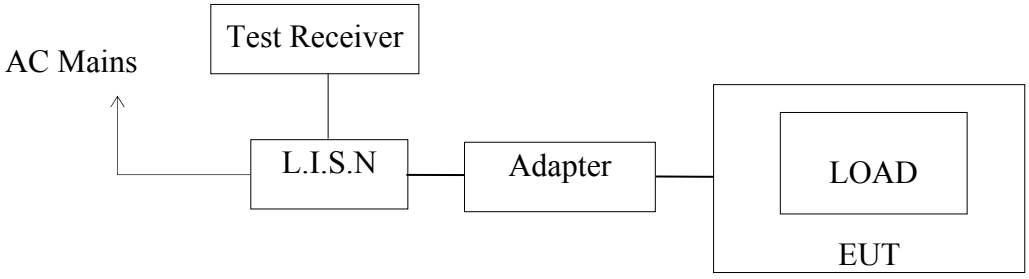
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCS30	100307	Jan.05, 2019	1 Year
2.	L.I.S.N.	Schwarzbeck	NLSK8126	8126431	Jan.05, 2019	1 Year
3.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100305	Jan.05, 2019	1 Year
4.	50Ω Coaxial Switch	Anritsu Corp	MP59B	6200283936	Jan.05, 2019	1 Year
5.	RF Coaxial Cable	SUHNER	N-2m	No.2	Jan.05, 2019	1 Year
6.	Measurement Software: ES-K1 V1.71					

3.2. The Equipment Used to Measure Radiated Emission

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	Rohde&Schwarz	FSV40	101495	Jan.05, 2019	1 Year
2.	Test Receiver	Rohde& Schwarz	ESR	101817	Jan.05, 2019	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan.05, 2019	1 Year
4.	Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan.05, 2019	1 Year
5.	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan.05, 2019	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-359	Jan.05, 2019	1 Year
7.	RF Switching Unit+PreAMP	Compliance Direction	RSU-M2	38322	Jan.05, 2019	1 Year
8.	Pre-Amplifier	Agilent	8447D	294A10619	Jan.05, 2019	1 Year
9.	Pre-Amplifier	Rohde&Schwarz	CBLU11835 40-01	3791	Jan.05, 2019	1 Year
10.	50 Coaxial Switch	Anritsu Corp	MP59B	6200506474	Jan.05, 2019	1 Year
11.	RF Coaxial Cable	RESENBERGER	N-12m	No.11	Jan.05, 2019	1 Year
12.	RF Coaxial Cable	RESENBERGER	N-0.5m	No.12	Jan.05, 2019	1 Year
13.	RF Coaxial Cable	SUHNER	N-2m	No.13	Jan.05, 2019	1 Year
14.	RF Coaxial Cable	SUHNER	N-0.5m	No.15	Jan.05, 2019	1 Year
15.	RF Coaxial Cable	SUHNER	N-2m	No.16	Jan.05, 2019	1 Year
16.	RF Coaxial Cable	RESENBERGER	N-6m	No.17	Jan.05, 2019	1 Year
17.	Measurement Software: EZ_EMC V1.1.4.2					

4. AC POWER LINE CONDUCTED MEASUREMENT

4.1.Block Diagram of Test Setup



4.2.AC Power Line Conducted Emission Measurement Limits

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0
NOTE1: The lower limit shall apply at the transition frequencies. NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.		

4.3.Configuration of EUT on Measurement

The equipments are installed on conducted emission measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a normal application.

4.4.Operating Condition of EUT

4.4.1. Setup the EUT and simulator as shown as Section 4.1.

4.4.2. Turn on the power of all equipment.

4.4.3. Let the EUT work in test mode and measure it.

4.5. Measurement Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

4.6. Data Sample

Frequency (MHz)	Transducer value (dB)	QuasiPeak Level (dBμV)	Average Level (dBμV)	QuasiPeak Limit (dBμV)	Average Limit (dBμV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XX	10.6	25.3	17.0	59.0	49.0	33.7	32.0	Pass

Transducer value = Insertion loss of LISN + Cable Loss
Result = Quasi-peak Level/Average Level + Transducer value
Limit = Limit stated in standard

Calculation Formula:

Margin = Limit – Reading level value – Transducer value

4.7. Measurement Results

Pass.

The frequency range from 150kHz to 30MHz is checked.

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectral diagrams are attached as below.

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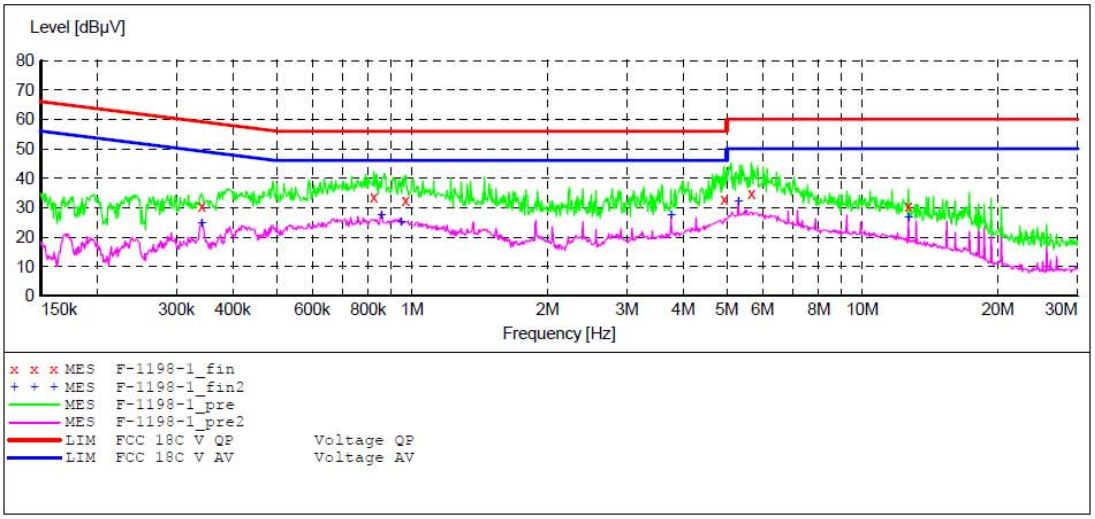
CONDUCTED EMISSION STANDARD FCC PART 18 C

EUT: Airpatch Charger M/N:DEV00106
Manufacturer: Ectosense NV
Operating Condition: Max. Power Output
Test Site: 1#Shielding Room
Operator: Frank
Test Specification: L 240V/60Hz
Comment: Report NO.:ATE20190037
Start of Test: 2019-1-14 / 9:52:13AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "F-1198-1_fin"

2019-1-14 9:54AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.341378	30.50	10.6	59	28.7	QP	L1	GND
0.821586	33.60	10.8	56	22.4	QP	L1	GND
0.967688	32.50	10.8	56	23.5	QP	L1	GND
4.932760	32.80	11.2	56	23.2	QP	L1	GND
5.672440	34.80	11.2	60	25.2	QP	L1	GND
12.654535	30.60	11.3	60	29.4	QP	L1	GND

MEASUREMENT RESULT: "F-1198-1_fin2"

2019-1-14 9:54AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.341378	24.50	10.6	49	24.7	AV	L1	GND
0.855047	27.50	10.8	46	18.5	AV	L1	GND
0.944785	25.10	10.8	46	20.9	AV	L1	GND
3.760084	27.50	11.1	46	18.5	AV	L1	GND
5.300255	32.00	11.2	50	18.0	AV	L1	GND
12.654535	26.70	11.3	50	23.3	AV	L1	GND

ACCURATE TECHNOLOGY CO.,LTD

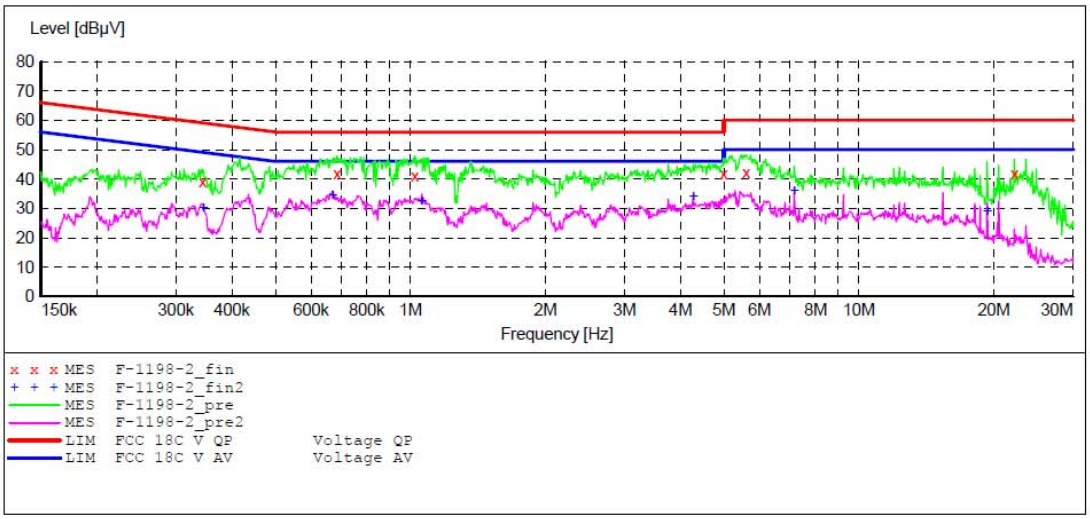
CONDUCTED EMISSION STANDARD FCC PART 18 C

EUT: Airpatch Charger M/N:DEV00106
Manufacturer: Ectosense NV
Operating Condition: Max. Power Output
Test Site: 1#Shielding Room
Operator: Frank
Test Specification: N 240V/60Hz
Comment: Report NO.:ATE20190037
Start of Test: 2019-1-14 / 9:55:21AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "F-1198-2_fin"

2019-1-14 9:58AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.344115	38.90	10.6	59	20.2	QP	N	GND
0.686493	41.70	10.8	56	14.3	QP	N	GND
1.023310	41.10	10.8	56	14.9	QP	N	GND
4.992190	41.70	11.2	56	14.3	QP	N	GND
5.604912	42.20	11.2	60	17.8	QP	N	GND
22.217731	42.00	11.4	60	18.0	QP	N	GND

MEASUREMENT RESULT: "F-1198-2_fin2"

2019-1-14 9:58AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.345491	30.00	10.6	49	19.1	AV	N	GND
0.670245	34.20	10.8	46	11.8	AV	N	GND
1.060744	32.30	10.9	46	13.7	AV	N	GND
4.272443	33.80	11.1	46	12.2	AV	N	GND
7.178918	36.10	11.2	50	13.9	AV	N	GND
19.320562	28.80	11.4	50	21.2	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

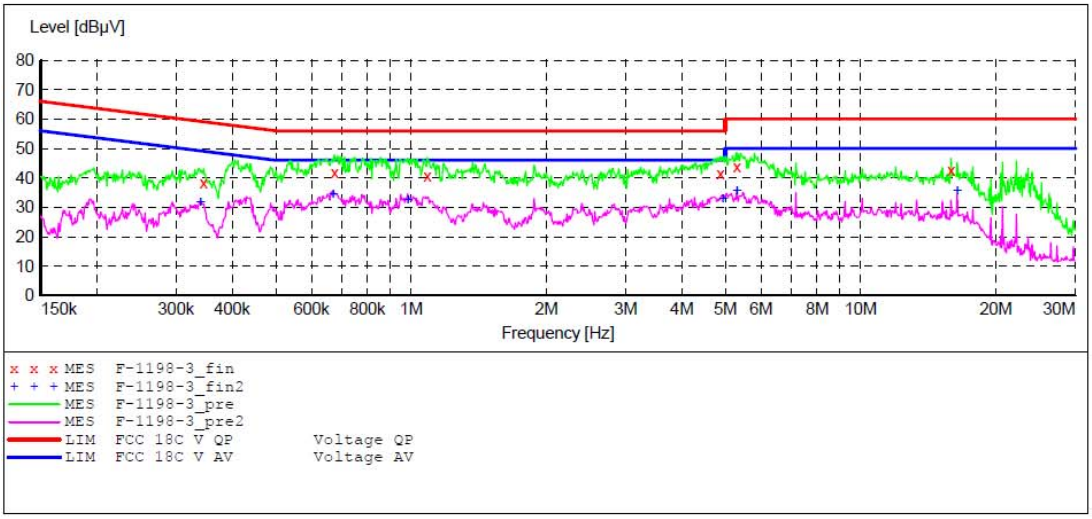
CONDUCTED EMISSION STANDARD FCC PART 18 C

EUT: Airpatch Charger M/N:DEV00106
Manufacturer: Ectosense NV
Operating Condition: Max. Power Output
Test Site: 1#Shielding Room
Operator: Frank
Test Specification: N 120V/60Hz
Comment: Report NO.:ATE20190037
Start of Test: 2019-1-14 / 9:59:24AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "F-1198-3_fin"

2019-1-14 10:01AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.345491	38.10	10.6	59	21.0	QP	N	GND
0.675618	41.90	10.8	56	14.1	QP	N	GND
1.086458	40.60	10.9	56	15.4	QP	N	GND
4.874037	41.30	11.1	56	14.7	QP	N	GND
5.300255	43.80	11.2	60	16.2	QP	N	GND
15.887948	42.60	11.4	60	17.4	QP	N	GND

MEASUREMENT RESULT: "F-1198-3_fin2"

2019-1-14 10:01AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.340018	31.70	10.6	49	17.5	AV	N	GND
0.670245	34.20	10.8	46	11.8	AV	N	GND
0.983264	32.60	10.8	46	13.4	AV	N	GND
4.932760	33.00	11.2	46	13.0	AV	N	GND
5.300255	35.70	11.2	50	14.3	AV	N	GND
16.403538	35.50	11.4	50	14.5	AV	N	GND

ACCURATE TECHNOLOGY CO.,LTD

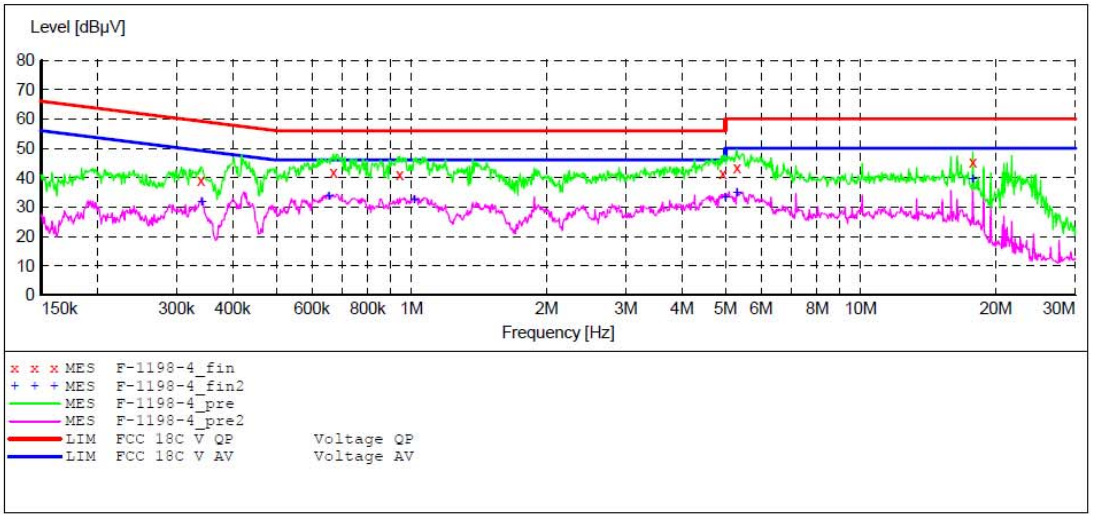
CONDUCTED EMISSION STANDARD FCC PART 18 C

EUT:	Airpatch Charger M/N:DEV00106
Manufacturer:	Ectosense NV
Operating Condition:	Max. Power Output
Test Site:	1#Shielding Room
Operator:	Frank
Test Specification:	L 120V/60Hz
Comment:	Report NO.:ATE20190037
Start of Test:	2019-1-14 / 10:02:15AM

SCAN TABLE: "V 9K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak Average	1.0 s	200 Hz	NSLK8126 2008
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak Average	1.0 s	9 kHz	NSLK8126 2008



MEASUREMENT RESULT: "F-1198-4_fin"

2019-1-14 10:05AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.340018	39.20	10.6	59	20.0	QP	L1	GND
0.670245	41.90	10.8	56	14.1	QP	L1	GND
0.941021	41.00	10.8	56	15.0	QP	L1	GND
4.932760	41.50	11.2	56	14.5	QP	L1	GND
5.300255	43.30	11.2	60	16.7	QP	L1	GND
17.766905	45.20	11.4	60	14.8	QP	L1	GND

MEASUREMENT RESULT: "F-1198-4_fin2"

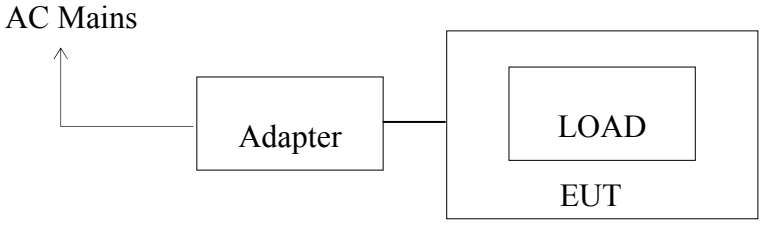
2019-1-14 10:05AM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.341378	31.70	10.6	49	17.5	AV	L1	GND
0.654382	33.60	10.8	46	12.4	AV	L1	GND
1.015172	32.60	10.8	46	13.4	AV	L1	GND
4.992190	33.20	11.2	46	12.8	AV	L1	GND
5.300255	34.80	11.2	50	15.2	AV	L1	GND
17.766905	39.60	11.4	50	10.4	AV	L1	GND

5. RADIATED EMISSION MEASUREMENT

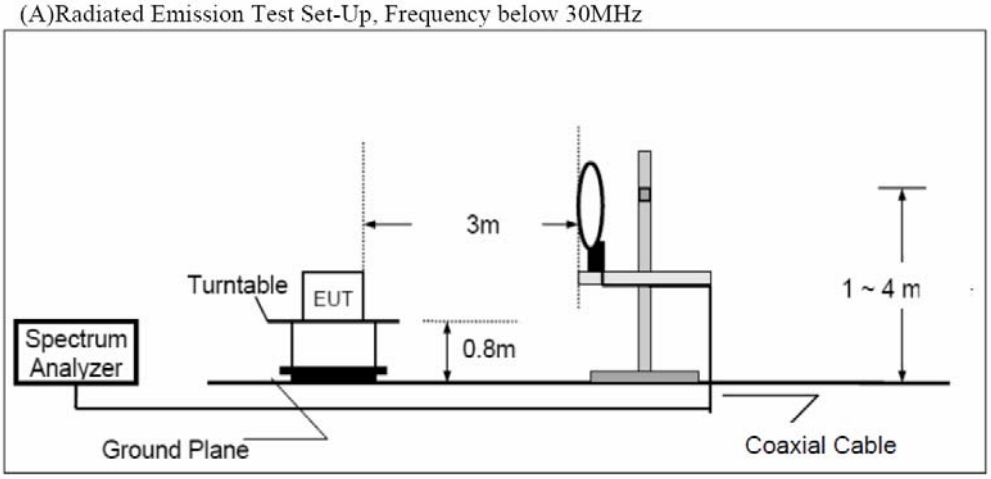
5.1.Block Diagram of Test

5.1.1.Block diagram of connection between the EUT and simulators

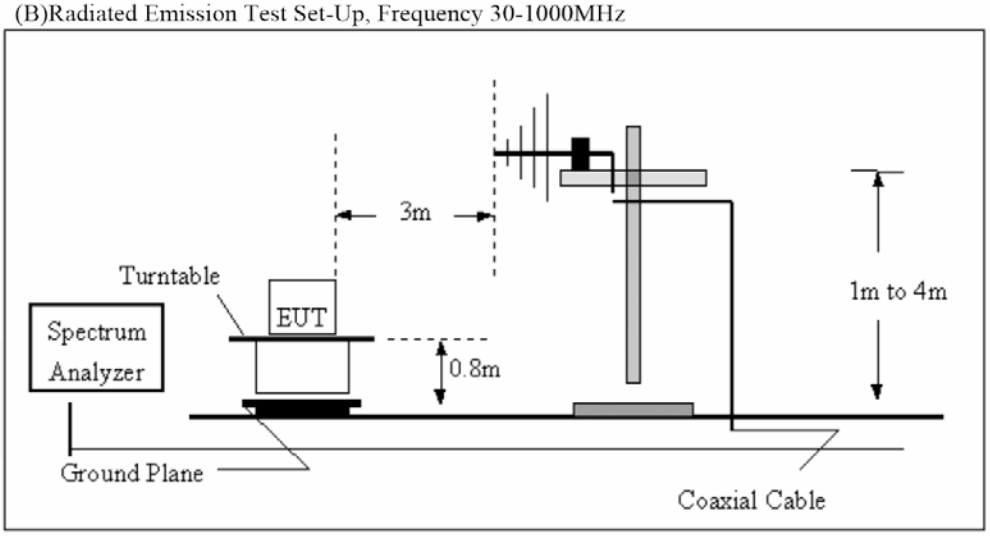


5.1.2.Block diagram of test setup (In chamber)

(A)Radiated Emission Test Set-Up, Frequency below 30MHz



(B)Radiated Emission Test Set-Up, Frequency 30-1000MHz



5.2. Radiated Emission Limit

Frequency MHz	Distance Meters	Field Strengths Limit	
		μV/m	dBμV/m
0.009-30	300	15	103.5
30-88	3	100	40.0
88-216	3	150	43.5
216-960	3	200	46.0
Above 960	3	500	54.0
Limit: 0.009-30MHz = 20log (15) +40log (300/3) dBμV/m Distance Correction Factor=40log(test distance/specific distance)			

5.3. EUT Configuration on Measurement

The equipments are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in test mode and measure it.

5.5. Measurement Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10: 2013 on radiated emission measurement.

From 9kHz to 30MHz at distance 3m The EUT was rotated a full revolution in order to obtain the maximum value of the electric field intensity.
The final level, expressed in dBuV/m, is arrived at by taking the reading from the EMI receiver(Level dBuV) and adding the antenna correction factor and cable loss factor(Factor dB) to it. This result then has to be compared with the relevant FCC limit.The resolution bandwidth during the measurement is as follows:

9kHz – 150kHz: ResBW: 200Hz
150kHz – 30MHz: ResBW: 9kHz

5.6. Data Sample

Frequency(MHz)	Reading (dBμv)	Factor (dB/m)	Result (dBμv/m)	Limit (dBμv/m)	Margin (dB)	Remark
X.XX	49.83	-22.03	27.80	43.50	-15.70	QP

Frequency(MHz) = Emission frequency in MHz
Reading(dBμv) = Uncorrected Analyzer/Receiver reading
Factor (dB/m)= Antenna factor + Cable Loss – Amplifier gain
Result(dBμv/m) = Reading + Factor
Limit (dBμv/m)= Limit stated in standard

Calculation Formula:

Margin(dB) = Result (dBμv/m)–Limit(dBμv/m)

Result(dBμv/m)= Reading(dBμv)+ Factor(dB/m)

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the limit.

5.7. Measurement Result

Pass.

Note: 185KHz is fundamental frequency.

Emissions attenuated more than 20 dB below the permissible value are not reported.

The spectrum analyzer plots are attached as below.

EUT test at X,Y,Z position,
Measured at Antenna position 0 degree and 90 degree, only worse case is reported.

9kHz-30MHz test data

ACCURATE TECHNOLOGY CO.,LTD

RADIATED EMISSION STANDARD FCC PART 18 C

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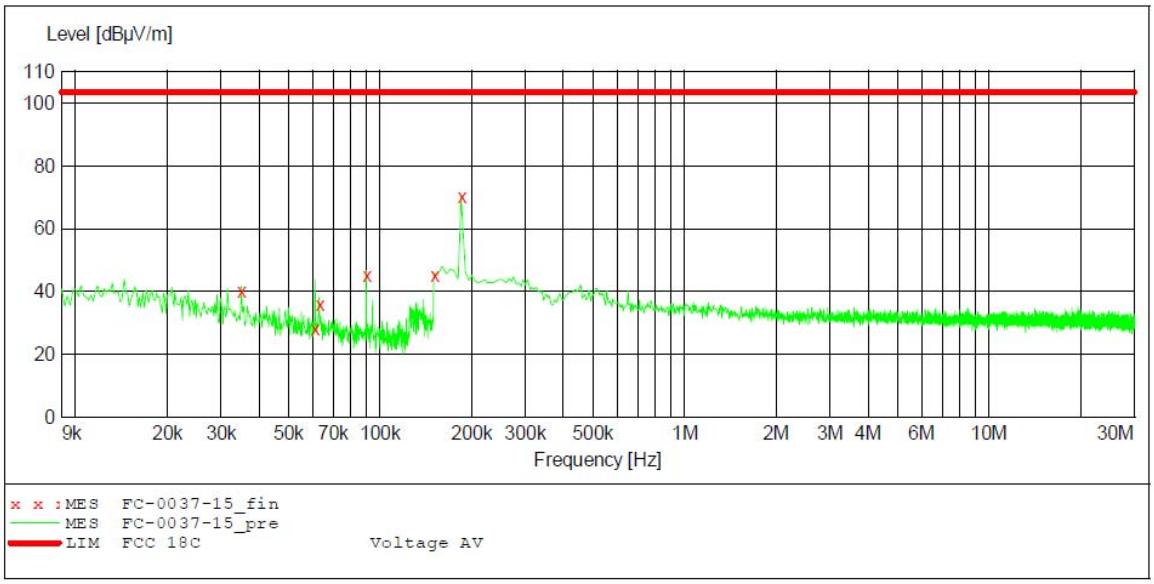
EUT:                  Airpatch Charger M/N:DEV00106
Manufacturer:         Ectosense NV
Operating Condition:  Max. Power Output
Test Site:            1#Shielding Room
Operator:             Frank
Test Specification:   AC 120V/60Hz
Comment:              X
Start of Test:        2019-1-16 / 18:02:02
```

SCAN TABLE: "LFRE(E) Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E



MEASUREMENT RESULT: "FC-0037-15_fin"

2019-1-16 10:48

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.035000	40.10	20.1	103.5	63.4	QP	100.0	0.00	X
0.061000	28.20	20.1	103.5	75.3	QP	100.0	0.00	X
0.063000	35.70	20.1	103.5	67.8	QP	100.0	0.00	X
0.090200	45.20	20.1	103.5	58.3	QP	100.0	0.00	X
0.150000	45.10	20.1	103.5	58.4	QP	100.0	0.00	X
0.185000	70.04	20.2	103.5	33.5	QP	100.0	0.00	X

ACCURATE TECHNOLOGY CO.,LTD

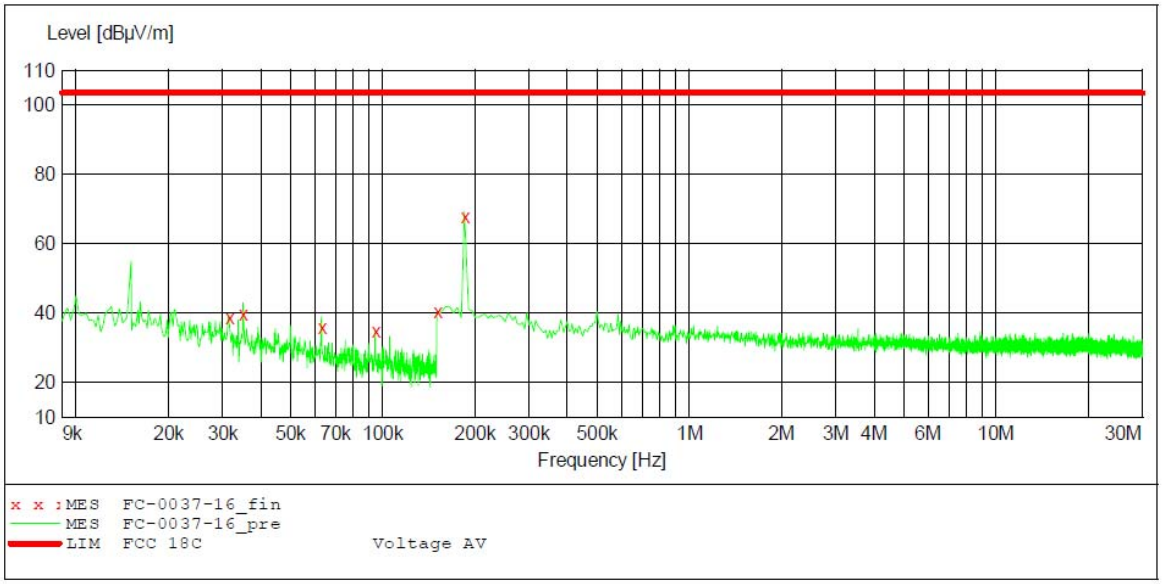
RADIATED EMISSION STANDARD FCC PART 18 C

EUT:	Airpatch Charger M/N:DEV00106
Manufacturer:	Ectosense NV
Operating Condition:	Max. Power Output
Test Site:	1#Shielding Room
Operator:	Frank
Test Specification:	AC 120V/60Hz
Comment:	Y
Start of Test:	2019-1-16 / 18:02:02

SCAN TABLE: "LFRE(E) Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E



MEASUREMENT RESULT: "FC-0037-16_fin"

2019-1-16 10:50

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.031400	38.40	20.1	103.5	65.1	QP	100.0	0.00	Y
0.035000	39.60	20.1	103.5	63.9	QP	100.0	0.00	Y
0.063000	35.80	20.1	103.5	67.7	QP	100.0	0.00	Y
0.094400	34.70	20.1	103.5	68.8	QP	100.0	0.00	Y
0.150000	40.30	20.1	103.5	63.2	QP	100.0	0.00	Y
0.185000	67.90	20.2	103.5	35.6	QP	100.0	0.00	Y

ACCURATE TECHNOLOGY CO.,LTD

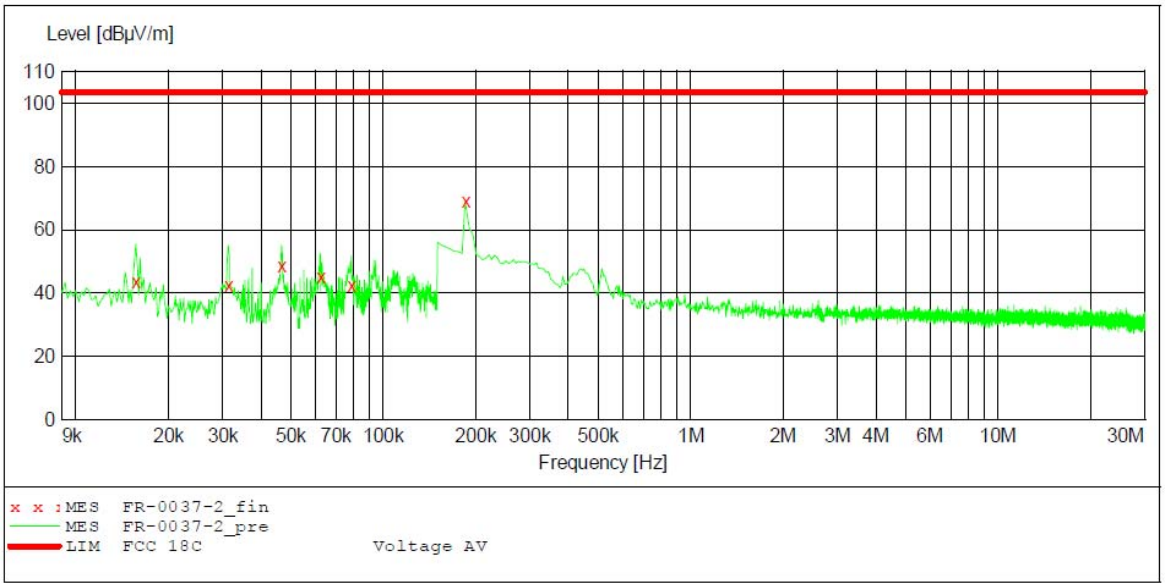
RADIATED EMISSION STANDARD FCC PART 18 C

EUT: Airpatch Charger M/N:DEV00106
Manufacturer: Ectosense NV
Operating Condition: Max. Power Output
Test Site: 1#Shielding Room
Operator: Frank
Test Specification: AC 120V/60Hz
Comment: Z
Start of Test: 2019-1-16 / 18:02:02

SCAN TABLE: "LFRE(E) Fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
9.0 kHz	150.0 kHz	100.0 Hz	QuasiPeak	1.0 s	200 Hz	1516E
150.0 kHz	30.0 MHz	5.0 kHz	QuasiPeak	1.0 s	9 kHz	1516E



MEASUREMENT RESULT: "FR-0037-2_fin"

2019-1-16 10:51

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
0.015600	43.40	20.1	103.5	60.1	QP	100.0	0.00	Z
0.031200	42.40	20.1	103.5	61.1	QP	100.0	0.00	Z
0.046600	48.40	20.1	103.5	55.1	QP	100.0	0.00	Z
0.062200	45.20	20.1	103.5	58.3	QP	100.0	0.00	Z
0.078600	42.30	20.1	103.5	61.2	QP	100.0	0.00	Z
0.185000	68.70	20.2	103.5	34.8	QP	100.0	0.00	Z

30MHz-1GHz test data

ACCURATE TECHNOLOGY CO., LTD.
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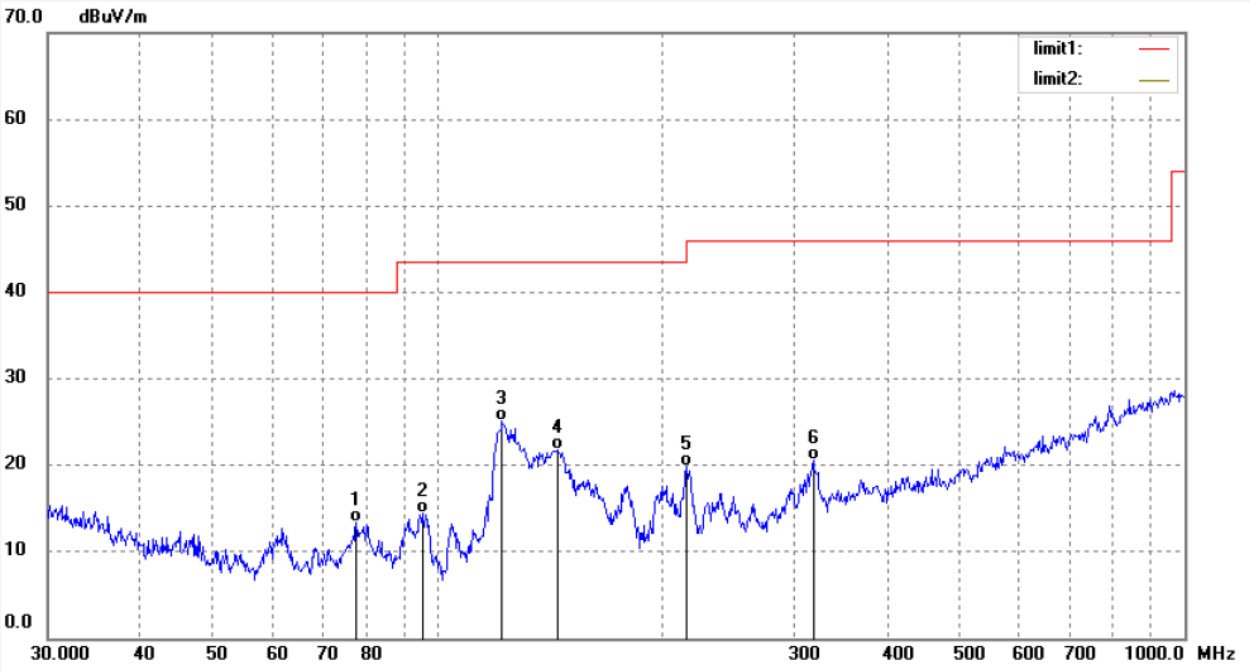
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2018 #577	Polarization: Horizontal
Standard: FCC Part 18C 3M Radiated	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 2019/01/16
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 17:15:22
EUT: Airpatch Charger	Engineer Signature: star
Mode: Max power output	Distance: 3m
Model: DEV00106	
Manufacturer: Ectosense NV	

Note: Report No.:ATE20190037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	77.7407	40.86	-27.54	13.32	40.00	-26.68	QP	200	301	
2	95.3131	41.88	-27.46	14.42	43.50	-29.08	QP	200	48	
3	121.8899	52.65	-27.49	25.16	43.50	-18.34	QP	200	105	
4	144.7899	49.76	-28.05	21.71	43.50	-21.79	QP	200	222	
5	215.3616	43.87	-24.05	19.82	43.50	-23.68	QP	200	256	
6	318.0875	41.19	-20.68	20.51	46.00	-25.49	QP	200	125	

ACCURATE TECHNOLOGY CO., LTD.
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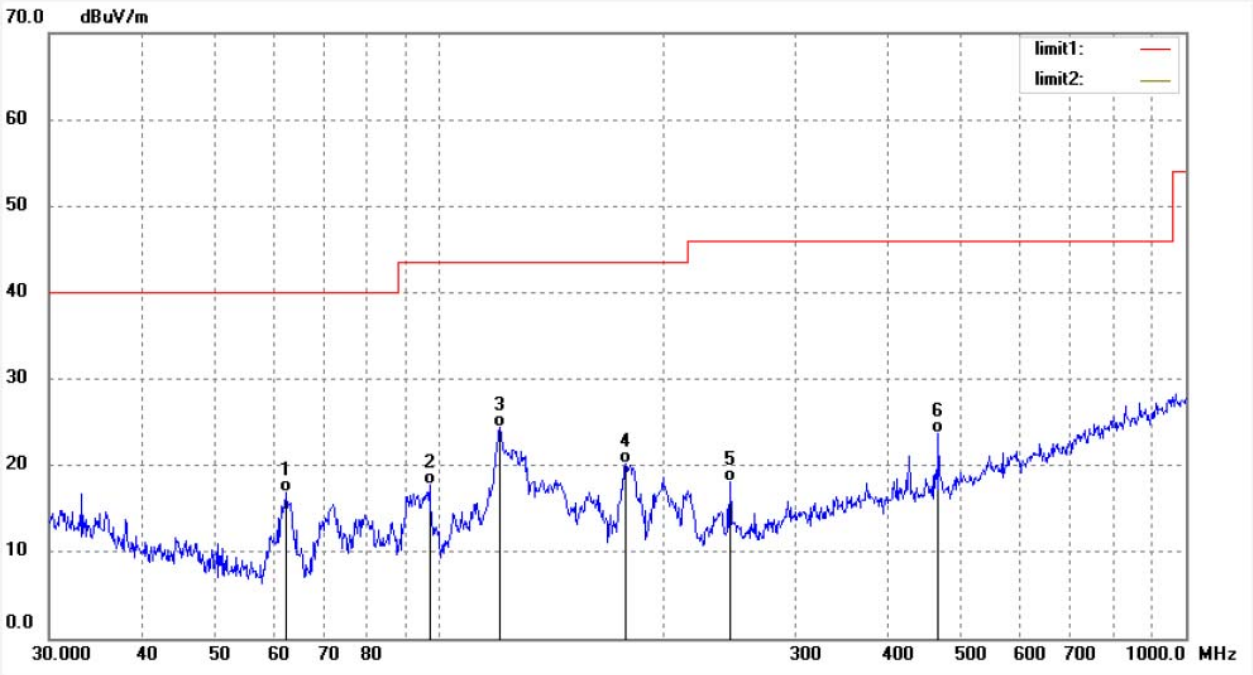
Science & Industry Park,Nanshan Shenzhen,P.R.China
Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: STAR2018 #578
Standard: FCC Part 18C 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 25 C / 55 %
EUT: Airpatch Charger
Mode: Max power output
Model: DEV00106
Manufacturer: Ectosense NV

Polarization: Vertical
Power Source: AC 120V/60Hz
Date: 2019/01/16
Time: 17:16:38
Engineer Signature: star
Distance: 3m

Note: Report No.:ATE20190037



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	62.3038	44.13	-27.25	16.88	40.00	-23.12	QP	100	68	
2	97.0023	45.49	-27.66	17.83	43.50	-25.67	QP	100	100	
3	120.6118	51.79	-27.46	24.33	43.50	-19.17	QP	100	125	
4	177.5179	46.42	-26.26	20.16	43.50	-23.34	QP	100	140	
5	245.2606	41.73	-23.67	18.06	46.00	-27.94	QP	100	108	
6	466.5230	40.54	-16.81	23.73	46.00	-22.27	QP	100	224	

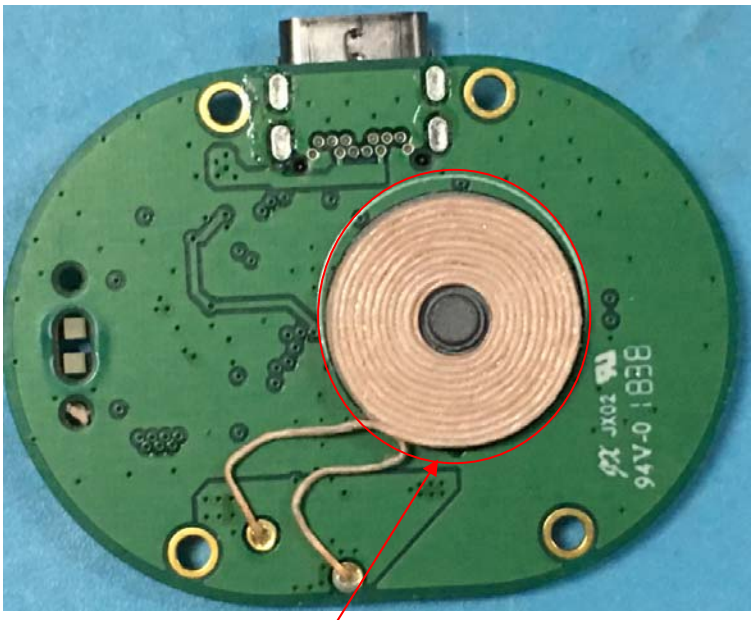
6. ANTENNA REQUIREMENT

6.1. The Requirement

According to Section 15.203, 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.

6.2. Antenna Construction

Device is equipped with permanent attached antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Induction coil

******* End of Test Report *******