

# **TEST REPORT**

Product Name : ESR HaloLck Shift Wireless Car Charger

Model Number : 2C516

FCC ID : 2A2UK-2C516

Prepared for : Dongguan Jiajiatong Plastic Mould Co., Ltd.

Address : No. 10, Qiaojiao Middle Road, Pingshan 188 Industrial

Zone, Tangxia Town, Dongguan City, Guangdong Province,

China

Prepared by : EMTEK (DONGGUAN) CO., LTD. Address : -1&2/F..Building 2. Zone A. Zhong

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Report Number : EDG2108100128E00101R

Date(s) of Tests : August 23, 2021 to August 23, 2021

Date of issue : August 23, 2021



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## TEST REPORT DESCRIPTION

Applicant : Dongguan Jiajiatong Plastic Mould Co., Ltd.

Address No. 10, Qiaojiao Middle Road, Pingshan 188 Industrial Zone, Tangxia Town,

Dongguan City, Guangdong Province, China

Manufacturer : Dongguan Jiajiatong Plastic Mould Co., Ltd.

Address No. 10, Qiaojiao Middle Road, Pingshan 188 Industrial Zone, Tangxia Town,

Dongguan City, Guangdong Province, China

EUT : ESR HaloLck Shift Wireless Car Charger

Model Name : 2C516

Trademark : N/A

#### Measurement Procedure Used:

APPLICABLE STANDARDS			
STANDARD TEST RESULT			
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS		

The above equipment was tested by EMTEK (DONGGUAN) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2 and Part 15C

The test results of this report relate only to the tested sample identified in this report

Date of Test :	August 23, 2021 to August 23, 2021
Prepared by :	Kin Yang
	Xia Yang/Editor
	7im Dong
Reviewer :	
	Tim Dong/Supervisor
	ONGGUAN, CO
Approve & Authorized Signer :	TO NOTE OF THE PARTY OF THE PAR
	Sam Lv/Manager ESTING



## **Modified Information**

Version	Report No.	Revision Data	Summary
Ver.1.0	EDG2108100128E00101R	/	Original Version





## 1. SUMMARY OF TEST RESULTS

	EMISSION	
Description of Test Item	Standard & Limits	Results
Conducted Emission	FCC Part 15, Subpart C- Section 15.207 ANSI C63.10-2013	Pass
Radiated Emission	FCC Part 15, Subpart C- Section 15.209 ANSI C63.10-2013	Pass





## 2. GENERAL INFORMATION

## 2.1. Description of Device (EUT)

EUT : ESR HaloLck Shift Wireless Car Charger

Model Number : 2C516

Input : AC 120V/60Hz

Operation : 110KHz-205KHz

Frequency for WPT

Modulation : ASK

Antenna Type: : Induction Coil antenna

Date of Received : August 23, 2021

Date of Test : August 23, 2021 to August 23, 2021

## 2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
1	Enclosure	N/E		) <del></del> /	None
2	DC IN port	I/O	No	Unshielded	1 port

<sup>\*</sup> Note: For the purposes of the present document, the following symbols apply:

AC AC Power Port
DC DC Power Port
N/E Non-Electrical

I/O Signal Input or Output Port (Not Involved in Process Control)

TP Telecommunication Ports



## 2.3. Independent Operation Modes

A ON

1. Charging (Full load)

#### 2.4. Test Manner

Test Items	Test Voltage	Operation Modes
Conducted Emission	AC 120V/60Hz	Mode A.1
Radiated Emission	AC 120V/60Hz	Mode A.1

## 2.5. Description of Test Facility

Site Description

EMC Lab. : Accredited by CNAS, 2018.11.30

The certificate is valid until 2022.10.28

The Laboratory has been assessed and proved to be in compliance with

CNAS-CL01:2006 (identical to ISO/IEC 17025:2017)

The Certificate Registration Number is L2291

Accredited by FCC, August 09, 2018

Designation Number: CN1300

Test Firm Registration Number: 882943 Accredited by A2LA, August 08, 2018

The Certificate Registration Number is 4321.01

Accredited by Industry Canada, November 09, 2018
The Conformity Assessment Body Identifier is CN0008

Name of Firm : EMTEK (DONGGUAN) CO., LTD.

Site Location : -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology Reserch and

Development Base, No.9, Xincheng Avenue, Songshanhu High-technology

Industrial Development Zone, Dongguan, Guangdong, China

### 2.6. Test Software

Item Software

Conducted Emission : EMTEK(Ver.CON-03A1)

Radiated Emission : EMTEK(Ver.RA-03A1)



## 2.7. Description of Support Device

No.	Equipment	Trade name	Model	S/N	Power Cord
1.	Load	N/A	5W/10W/15W	N/A	N/A
2.	Adapter	iHome	BQ60A-1205000-U	N/A	N/A

## 2.8. Measurement Uncertainty

Test Item Uncertainty

Conducted Emission Uncertainty : 3.16dB(9k~150kHz Conduction 2#)

2.90dB(150k-30MHz Conduction 2#)

Radiated Emission Uncertainty : 3.78dB (30M~1GHz Polarize: H)

(3m Chamber) 4.27dB (30M~1GHz Polarize: V)

4.46dB (1~6GHz)



## 3. MEASURING DEVICE AND TEST EQUIPMENT

## 3.1. Conducted Emission Test Equipment

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	DUE CAL.
Test Receiver	Rohde & Schwarz	ESCS30	828985/018	05/16/2021	05/15/2022
L.I.S.N.	Schwarzbeck	NNLK8129	8129203	05/16/2021	05/15/2022
50Ω Coaxial Switch	Anritsu	MP59B	M20531	05/16/2021	05/15/2022
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	05/16/2021	05/15/2022
Voltage Probe	Rohde & Schwarz	TK9416	N/A	05/16/2021	05/15/2022
I.S.N	Rohde & Schwarz	ENY22	1109.9508.02	05/16/2021	05/15/2022

## 3.2. For 3m Radiated Emission Measurement 9K-30M (3m chamber 1#)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	DUE CAL.
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/16/2021	05/15/2022
Loop Antenna	Schwarzbeck	FMZB 1519	1519-012	05/16/2021	05/15/2022
Cable		3M	295838/4	05/16/2021	05/15/2022
		SF104-26.5		00/10/2021	00/10/2022
Cable		6M	295840/4	05/16/2021	05/15/2022
		SF104-26.5		05/10/2021	03/13/2022

## 3.3. For 3m Radiated Emission Measurement 30M-1G (3m chamber 1#)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/16/2021	05/15/2022
Pre-Amplifier	HP	8447F	2944A07999	05/16/2021	05/15/2022
Bilog Antenna	Schwarzbeck	VULB9163	142	05/16/2021	05/15/2022
Cable	Schwarzbeck	AK9513	ACRX1	05/16/2021	05/15/2022
Cable	Rosenberger	N/A	FP2RX2	05/16/2021	05/15/2022
Cable	Schwarzbeck	AK9513	CRPX1	05/16/2021	05/15/2022
Cable	Schwarzbeck	AK9513	CRRX2	05/16/2021	05/15/2022



## 4. 20DB BANDWIDTH

## 4.1. Test Procedure

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 3Hz.

Set the video bandwidth (VBW) =10Hz.

Set Span= 500Hz

Set Detector = Peak.

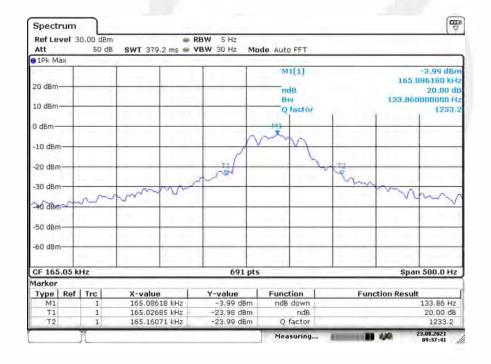
Set Trace mode = max hold.

Set Sweep = auto couple.

Measure and record the results in the test report.

### 4.2. Test Results

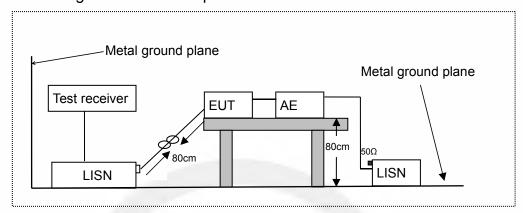
#### 20dB Band=133.86Hz





## 5. POWER LINE CONDUCTED EMISSION MEASUREMENT

## 5.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network

AE: Associated equipment EUT: Equipment under test

#### 5.2. Limits

FCC Part 15.207

F	requer	ncy	Limit (dBμV)		
(MHz)		)	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.

#### 5.3. Test Procedure

The EUT was placed on a desk 0.8 m height from the metal ground plane and 0.4 m from the conducting wall of the shielding room and it was kept at least 0.8 m from any other grounded conducting surface. The size of the table will nominally be 1.5 m x1.0 m.

The rear of the arrangement shall be flush with the back of the supporting tabletop unless that would not be possible or typical of normal use.

All units of equipment forming the system under test (includes the EUT as well as connected peripherals and associated equipment or devices) shall be arranged such that a nominal 0.1 m separation is achieved between the neighboring units.

Connect EUT to the power mains through a line impedance stabilization network (LISN). Where the mains cable supplied by the manufacturer is longer than 1 m, the excess should be folded at the centre into a bundle no longer than 0.4 m, so that its length is shortened to 1 m.

All the support units are connecting to the other LISN.



The LISN provides 50 ohm coupling impedance for the measuring instrument.

Both sides of AC line were checked for maximum conducted interference.

The frequency range from 150 kHz to 30 MHz was sweep.

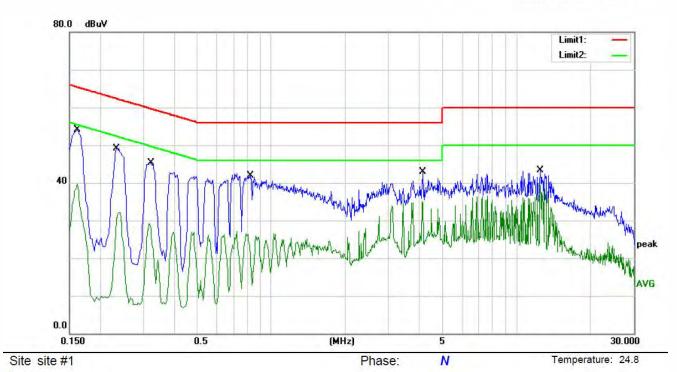
Set the test-receiver system to quasi peak detect function and average detect function, and to measure the conducted emissions values.

Test results were obtained from the following equation: Emission Level (dB $\mu$ V) = LISN Factor (dB) + Cable Loss (dB) + Reading (dB $\mu$ V) Margin (dB) = Emission Level (dB $\mu$ V) - Limit (dB $\mu$ V)

## 5.4. Measuring Results

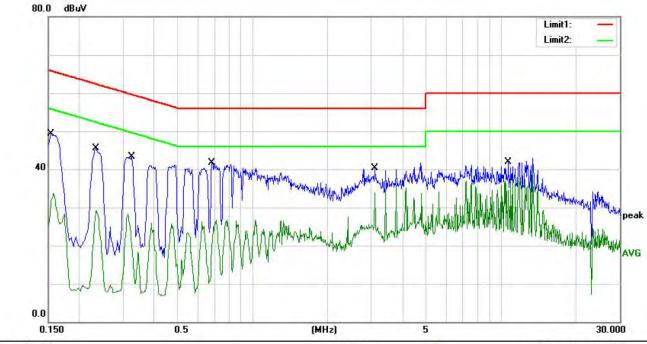






No. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.1620	43.54	10.52	54.06	65.36	-11.30	QP	
2	0.1620	29.09	10.52	39.61	55.36	-15.75	AVG	
3	0.2340	38.73	10.43	49.16	62.31	-13.15	QP	
4	0.2340	21.76	10.43	32.19	52.31	-20.12	AVG	
5	0.3220	35.03	10.33	45.36	59.66	-14.30	QP	
6	0.3220	18.85	10.33	29.18	49.66	-20.48	AVG	
7	0.8220	31.78	10.12	41.90	56.00	-14.10	QP	
8	0.8220	16.90	10.12	27.02	46.00	-18.98	AVG	
9	4.1380	32.76	10.07	42.83	56.00	-13.17	QP	
10 *	4.1380	24.63	10.07	34.70	46.00	-11.30	AVG	
11	12.5100	33.25	10.04	43.29	60.00	-16.71	QP	
12	12.5100	26.38	10.04	36.42	50.00	-13.58	AVG	





Site site #1	Phase: L1	Temperature: 24.8
Offe Site #1	I flase.	i omporataro.

No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBu√	dB	Detector	Comment
1	0.1540	38.73	10.53	49.26	65.78	-16.52	QP	
2	0.1540	23.22	10.53	33.75	55.78	-22.03	AVG	
3	0.2340	35.15	10.43	45.58	62.31	-16.73	QP	
4	0.2340	18.03	10.43	28.46	52.31	-23.85	AVG	
5	0.3260	32.89	10.33	43.22	59.55	-16.33	QP	
6	0.3260	15.67	10.33	26.00	49.55	-23.55	AVG	
7	0.6860	31.51	10.13	41.64	56.00	-14.36	QP	
8	0.6860	16.47	10.13	26.60	46.00	-19.40	AVG	
9	3.1020	30.13	10.08	40.21	56.00	-15.79	QP	
10 *	3.1020	25.52	10.08	35.60	46.00	-10.40	AVG	
11	10.6940	31.78	10.04	41.82	60.00	-18.18	QP	
12	10.6940	26.90	10.04	36.94	50.00	-13.06	AVG	



## 6. RADIATED EMISSION TEST

## 6.1.Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measured were complete.
- 5. Use the following receiver/spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW=200Hz for 9KHz to 150KHz,

RBW=9kHz for 150KHz to 30MHz,

RBW=120KHz for 30MHz to 1GHz

VBW ≥ 3\*RBW

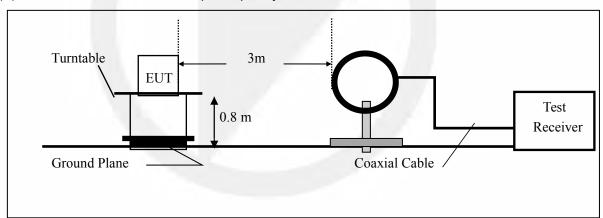
Sweep = auto

Detector function = QP

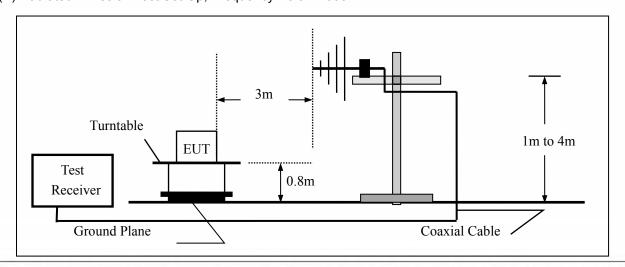
Trace = max hold

## 6.2. Test SET-UP (Block Diagram of Configuration)

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



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



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## 6.3. Measurement Equipment Used

EQUIPMENT	MFR	MODEL	SERIAL	LAST CAL.	CAL DUE.
TYPE		NUMBER	NUMBER		
EMI Test Receiver	Rohde & Schwarz	ESU	1302.6005.26	05/16/2021	05/15/2022
Pre-Amplifier	HP	8447D	2944A07999	05/16/2021	05/15/2022
Bilog Antenna	Schwarzbeck	VULB9163	142	05/16/2021	05/15/2022
Loop Antenna	ARA	PLA-1030/B	1029	05/16/2021	05/15/2022
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170399	05/16/2021	05/15/2022
Horn Antenna	Schwarzbeck	BBHA 9120	D143	05/16/2021	05/15/2022
Cable	Schwarzbeck	AK9513	ACRX1	05/16/2021	05/15/2022
Cable	Rosenberger	N/A	FP2RX2	05/16/2021	05/15/2022
Cable	Schwarzbeck	AK9513	CRPX1	05/16/2021	05/15/2022
Cable	Schwarzbeck	AK9513	CRRX2	05/16/2021	05/15/2022

## 6.4. Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

	FCC Part 15.209									
Frequency	Field Streng Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist							
(MHz)	(uV/m)	Dist	(uV/m)	(dBuV/m)						
0.009 - 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80						
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40						
1.705 – 30.00	30	30m	100* 30	20log 30 + 40						
30.0 - 88.0	100	3m	100	20log 100						
88.0 – 216.0	150	3m	150	20log 150						
216.0 – 960.0	200	3m	200	20log 200						
Above 960.0	500	3m	500	20log 500						



## 15.205 Restricted bands of operation

MHz	MHz	MHz	GHz		
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15		
10.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46		
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75		
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5		
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2		
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5		
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7		
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4		
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5		
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2		
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4		
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12		
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0		
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8		
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5		
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)		

- Remark: 1. Emission level in dBuV/m=20 log (uV/m)
  - 2. Measurement was performed at an antenna to the closed point of EUT distance of
  - 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of  $\xi$  15.205, and the emissions located in restricted bands also comply with 15.209



## 6.5.Measurement Result

Operation Mode: Low frequency

Frequency Range: 9KHz~30MHz Temperature :  $20^{\circ}$ C Test Result: PASS Humidity :  $55^{\circ}$ Measured Distance: 3m Test By: Loren

Freq.	Ant.Pol.	Emission Level	Limit 3m	Over	Note
(MHz)	H/V	(dBuV/m)	(dBuV/m)	(dB)	
0.165(F)	Н	72.35	103.25	-30.90	PK
0.7486	Н	41.58	50.12	-8.54	PK
3.1516	Н	45.75	69.54	-23.79	PK
9.3565	Н	36.46	69.54	-33.08	PK
0.165(F)	V	68.24	103.25	-35.01	PK
0.3826	V	42.91	55.95	-13.04	PK
2.4562	V	38.63	69.54	-30.91	PK
8.4721	V	35.18	69.54	-34.36	PK

Note: (1) All Readings are Peak Value.

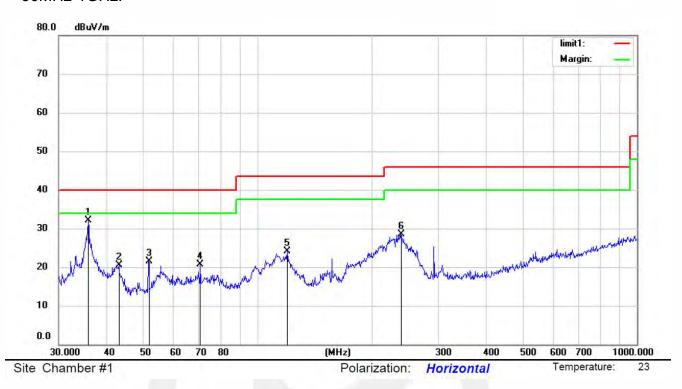
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) The average measurement was not performed when the peak measured data under the limit of average detection.

(4) EUT lying on the table position is the worst case result in the report.

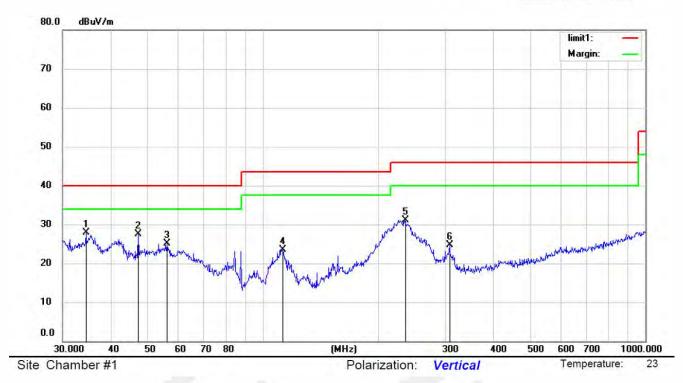


## 30MHz-1GHz:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	35.8746	47.11	-15.06	32.05	40.00	-7.95	QP			
2		43.2017	36.80	-16.29	20.51	40.00	-19.49	QP			
3		51.6616	37.97	-16.48	21.49	40.00	-18.51	QP			
4		70.8315	38.59	-17.89	20.70	40.00	-19.30	QP			
5		119.8556	42.34	-18.18	24.16	43.50	-19.34	QP			
6		238.3102	43.35	-14.77	28.58	46.00	-17.42	QP			





Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
*	34.5173	46.06	-18.24	27.82	40.00	-12.18	QP			
	47.3255	44.52	-16.98	27.54	40.00	-12.46	QP			
	56.1974	41.35	-16.27	25.08	40.00	-14.92	QP			
1	112.9196	41.45	-17.88	23.57	43.50	-19.93	QP			
2	234.9910	46.06	-14.88	31.18	46.00	-14.82	QP			
(	307.8313	37.52	-12.85	24.67	46.00	-21.33	QP			
	2	MHz * 34.5173 47.3255	Mk. Freq. Level  MHz dBuV  * 34.5173 46.06  47.3255 44.52  56.1974 41.35  112.9196 41.45  234.9910 46.06	Mk.         Freq.         Level         Factor           MHz         dBuV         dB           * 34.5173         46.06         -18.24           47.3255         44.52         -16.98           56.1974         41.35         -16.27           112.9196         41.45         -17.88           234.9910         46.06         -14.88	Mk.         Freq.         Level         Factor ment           MHz         dBuV         dB         dBuV/m           * 34.5173         46.06         -18.24         27.82           47.3255         44.52         -16.98         27.54           56.1974         41.35         -16.27         25.08           112.9196         41.45         -17.88         23.57           234.9910         46.06         -14.88         31.18	Mk.         Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV/m         dBuV/m           * 34.5173         46.06         -18.24         27.82         40.00           47.3255         44.52         -16.98         27.54         40.00           56.1974         41.35         -16.27         25.08         40.00           112.9196         41.45         -17.88         23.57         43.50           234.9910         46.06         -14.88         31.18         46.00	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dBuV/m         dB           * 34.5173         46.06         -18.24         27.82         40.00         -12.18           47.3255         44.52         -16.98         27.54         40.00         -12.46           56.1974         41.35         -16.27         25.08         40.00         -14.92           112.9196         41.45         -17.88         23.57         43.50         -19.93           234.9910         46.06         -14.88         31.18         46.00         -14.82	Mk.         Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector           * 34.5173         46.06         -18.24         27.82         40.00         -12.18         QP           47.3255         44.52         -16.98         27.54         40.00         -12.46         QP           56.1974         41.35         -16.27         25.08         40.00         -14.92         QP           112.9196         41.45         -17.88         23.57         43.50         -19.93         QP           234.9910         46.06         -14.88         31.18         46.00         -14.82         QP	Mk.         Freq.         Level         Factor         ment         Limit         Over         Height           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector         cm           * 34.5173         46.06         -18.24         27.82         40.00         -12.18         QP           47.3255         44.52         -16.98         27.54         40.00         -12.46         QP           56.1974         41.35         -16.27         25.08         40.00         -14.92         QP           112.9196         41.45         -17.88         23.57         43.50         -19.93         QP           234.9910         46.06         -14.88         31.18         46.00         -14.82         QP	Mk.         Freq.         Level         Factor         ment         Limit         Over         Height         Degree           MHz         dBuV         dB         dBuV/m         dBuV/m         dB         Detector         cm         degree           * 34.5173         46.06         -18.24         27.82         40.00         -12.18         QP           47.3255         44.52         -16.98         27.54         40.00         -12.46         QP           56.1974         41.35         -16.27         25.08         40.00         -14.92         QP           112.9196         41.45         -17.88         23.57         43.50         -19.93         QP           234.9910         46.06         -14.88         31.18         46.00         -14.82         QP



## 7. ANTENNA REQUIREMENT

The EUT's antenna, permanent attached antenna, used an Induction coil, The antenna's gain meets the requirement.



\*\*\* End of Report \*\*\*



# 声明 Statement

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