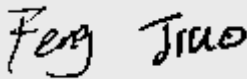
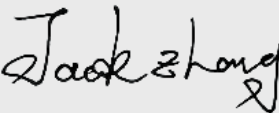




Test report No:
2350237R-RF-US-P06V01

FCC TEST REPORT

Product Name	Wireless Device Charger
Trademark	BCS
Model and /or type reference	WDC
FCC ID	2AXPS-WDC
Applicant's name / address	BCS Automotive Interface Solutions (Suzhou) Co., Ltd No. 2052, Taidong Road Xiangcheng Economic Development District Suzhou, Jiangsu Province 215143 China
Test method requested, standard	CFR 47, FCC Part 15 C
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Feng Jiao/ Project Engineer 
Approved by (name / position & signature)	Jack Zhang/ Manager 
Date of issue	2023-07-10
Report Version	V1.1
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

IMPORTANT: No parts of this report may be reproduced or quoted out of context, in any form or by any means, except in full, without the previous written permission of DEKRA.

GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Date(receive sample)	May. 10, 2023
Date (start test)	May. 11, 2023
Date (finish test)	May. 25, 2023

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
T_x	: Transmitter
R_x	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2350237R-RF-US-P06V01	V1.0	Initial issue of report.	2023-06-26
2350237R-RF-US-P06V01	V1.1	Added a description of the radiation spurious part. V1.0 has expired	2023-07-10

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with CFR 47, FCC Part 15 C .
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1.1 General Description of the Item(s);
 - Chapter 1.2 Antenna Informaion;
 - Chapter 1.3 Channel List.

USED EQUIPMENT

AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESR7	102086	2023.02.25	2024.02.24
Two-Line V-Network	R&S	ENV216	101190	2023.01.07	2024.01.06
Two-Line V-Network	R&S	ENV216	101044	2023.01.07	2024.01.06
Current Probe	R&S	EZ-17	100678	2023.01.13	2024.01.12
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	N/A	N/A
Temperature/Humidity Meter	RTS	RTS-8S	TR1-TH	2022.07.07	2023.07.06
Coaxial Cable	Suhner	RG 223	TR1-C1	2023.03.30	2024.03.29
Dekra test software	Dekra	-	-	-	-

Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Cal. Date	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2022.09.17	2023.09.16
Bilog Antenna	Teseq GmbH	CBL6112D	27613	2022.08.28	2023.08.27
Temperature/Humidity Meter	RTS	RTS-8S	AC2-TH	2022.07.07	2023.07.06
Coaxial Cable	Huber+Suhner	RG 214	AC2-C	2023.04.30	2024.04.29
Loop Antenna	R&S	HFH2-Z2	833799/003	2023.04.15	2024.04.14
Dekra test software	Dekra	-	-	-	-

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item	Uncertainty
AC Power Line Conducted Emission	150kHz~30MHz: 2.40dB
Radiated Emission(9KHz~30MHz)	Horizontal: 9KHz~30MHz: 2.10 dB Vertical: 30MHz~200MHz: 2.30 dB
Radiated Emission(30MHz~1GHz)	± 3.80 dB
Occupied Bandwidth	± 150 Hz

1 GENERAL INFORMATION

1.1 General Description of the Item(s)

Product Name..... :	Wireless Device Charger
Model No. :	WDC
Trademark :	BCS
FCC ID :	2AXPS-WDC
Software Version..... :	0004
Hardware Version :	B
Manufacturer..... :	BCS Automotive Interface Solutions (Suzhou) Co., Ltd
Manufacturer Address..... :	No. 2052, Taidong Road Xiangcheng Economic Development District Suzhou, Jiangsu Province 215143 China
Factory :	BCS Automotive Interface Solutions (Suzhou) Co., Ltd
Factory Address..... :	No. 2052, Taidong Road Xiangcheng Economic Development District Suzhou, Jiangsu Province 215143 China
Model difference :	The difference between WPC013 and WPC014: PCBA is completely consistent, but the external installation structure is inconsistent, the difference between WPC014-1 and WPC014, and the communication address ID of the customer host communication is not the same, and the wireless performance is exactly the same.

Operating Frequency Range :	122.72~132.72kHz
Type of Modulation..... :	ASK
Number of Channel..... :	1
Operating Temperature Range..... :	-40°C ~ 85°C

Rated power supply	Voltage and Frequency	
	<input type="checkbox"/>	AC: 220 – 240 V, 50 / 60 Hz,
	<input type="checkbox"/>	AC: 100 – 240 V, 50 / 60 Hz
	<input checked="" type="checkbox"/>	DC: 13.5 Vdc
	<input type="checkbox"/>	Battery: 12 Vdc
	<input type="checkbox"/>	Adapter:
Adapter..... :	N/A	
	N/A	
Mounting position..... :	<input type="checkbox"/>	Table top equipment
	<input type="checkbox"/>	Wall/Ceiling mounted equipment
	<input type="checkbox"/>	Floor standing equipment
	<input type="checkbox"/>	Hand-held equipment
	<input checked="" type="checkbox"/>	Other: Equipment for vehicular use

1.2 Antenna Information

Antenna Delivery	<input checked="" type="checkbox"/>	1TX + 1RX	
	<input type="checkbox"/>	2TX + 2RX	
	<input type="checkbox"/>	Others:.....	
Antenna technology.....	<input checked="" type="checkbox"/>	SISO	
	<input type="checkbox"/>	MIMO	<input type="checkbox"/> CDD
			<input type="checkbox"/> Beam-forming
Antenna Type.....	<input type="checkbox"/>	External	<input type="checkbox"/> Dipole
			<input type="checkbox"/> Sectorized
			<input type="checkbox"/> Ceramic Chip
	<input checked="" type="checkbox"/>	Internal	<input type="checkbox"/> PIFA
			<input type="checkbox"/> PCB
			<input checked="" type="checkbox"/> Others: Coil antenna

1.3 Channel List

Working Frequency of Each Channel:							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
01	127.7 kHz	--	--	--	--	--	--

Note: The General Description of the Item , antenna information and Channel List for the EUT in clause 1 are provided and confirmed by the client.

2 DESCRIPTION OF TEST SETUP

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

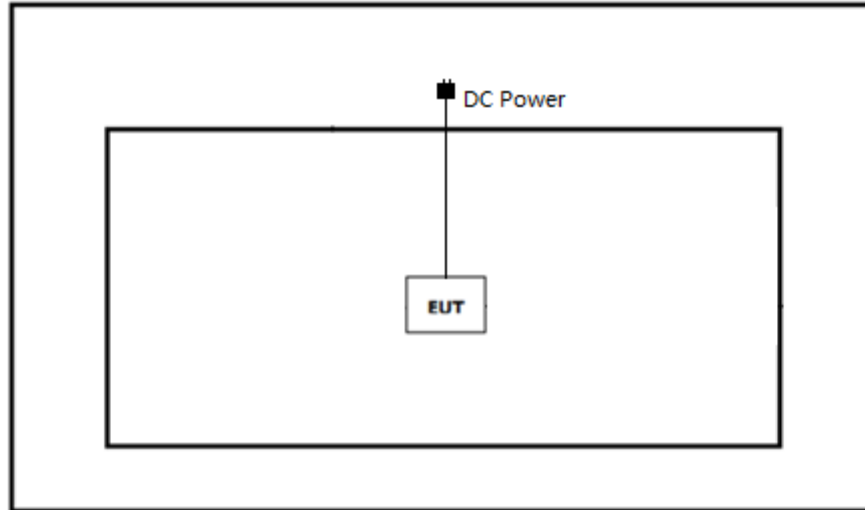
Test Mode For WPT	Mode 1: Transmit
-------------------	------------------

2.2 Auxiliary equipment / Test software for the EUT

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
N/A	N/A	N/A	N/A

2.3 Test Configuration / Block diagram used for tests

Test setup Diagram- Radiated Test



2.4 Testing process

1	Setup the EUT as shown in Section 2.3.
2	Turn on the power of equipment.
3	Verify that the EUT works properly.

Note: We use the resistor provided by the customer as the load, and we have verified the charging test under each power supply. The worst state is included in the report.

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2023	Intentional Radiators
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test case	Basic standard(s)	Verdict
Conducted Emission	FCC CFR Title 47 Part 15 Subpart C Section 15.207	N/A
Field Strength of Spurious	FCC CFR Title 47 Part 15 Subpart C Section 15.209	PASS
Channel Bandwidth	FCC CFR Title 47 Part 15 Subpart C Section 15.215(c)	PASS
Antenna Requirement	FCC CFR Title 47 Part 15 Subpart C: Section 15.203	PASS

Performed Test Item	Remark
Field Strength of Spurious	Test data please refer to Appendix A
Channel Bandwidth	Test data please refer to Appendix B

Note: We tested WPC013 and WPC014 and WPC014-1 models, and only the worst WPC013 data are reported in the report.

3.4 Test Facility

USA : FCC Designation Number: CN1199

4 TEST RESULTS

4.1 AC Power Line Conducted Emission

VERDICT: N/A

4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾	Limit: AV [dB(μV) ¹⁾
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

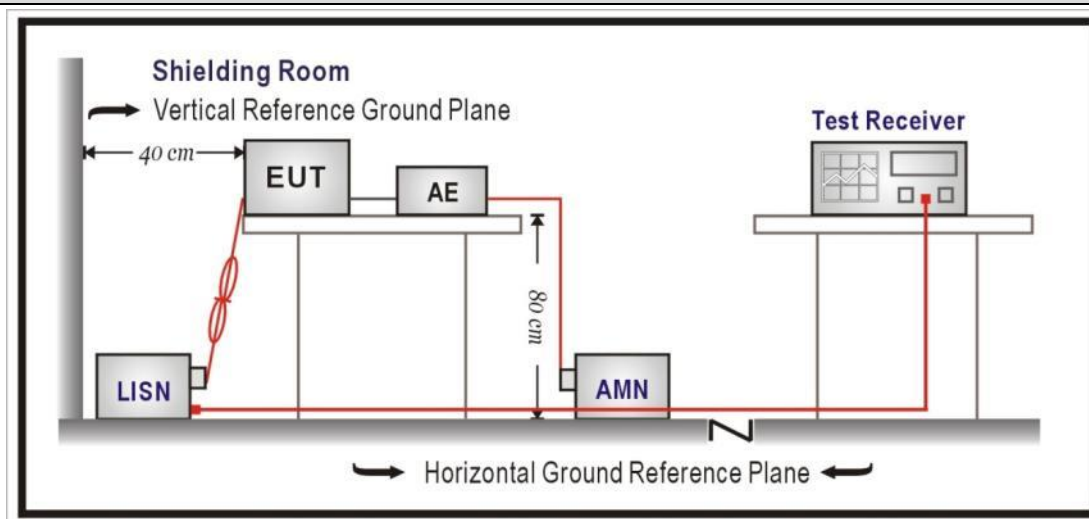
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.1.2 Test Setup



4.1.3 Test Procedure

References Rule	Chapter	Item
<input checked="" type="checkbox"/> ANSI C63.10:2013	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.1.4 Test Data

Note : The product is DC powered, no testing required for evaluation.

4.2 Field Strength of Spurious**VERDICT: PASS****4.2.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.209		
Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$)	Field strength ($\text{dB}\mu\text{V}/\text{m}$)	Measurement distance (m)	
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)	
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)	
1.705 - 30	30	29.5	30 _(Note 1)	
30 - 88	100	40	3 _(Note 2)	
88 - 216	150	43.5	3 _(Note 2)	
216 - 960	200	46	3 _(Note 2)	
Above 960	500	54	3 _(Note 2)	

Note 1: The tighter limits apply at the band edges.

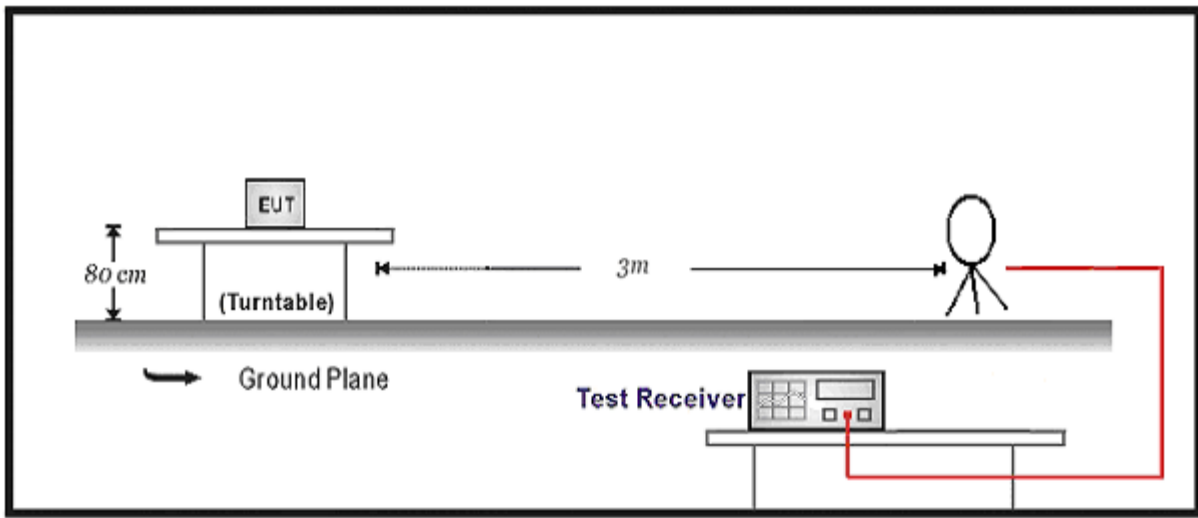
Note 2: Measurements were performed at 10m and the data was extrapolated to the specified measurement distance of 300m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2).
 Extrapolation Factor = $40 \log_{10}(300/10) = 59\text{dB}$ for example.

Measurements were performed at 10m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear distance extrapolation factor (40 dB/decade) as specified in §15.31(f)(2).
 Extrapolation Factor = $40 \log_{10}(30/10) = 19\text{dB}$ for example.

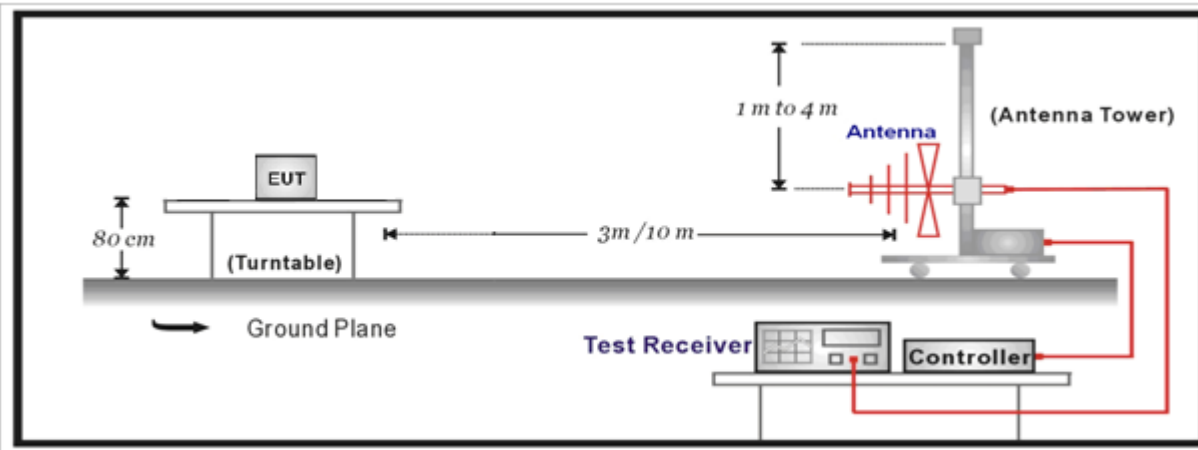
Note 3: All measurements were performed using a loop antenna. The antenna was positioned in three orthogonal positions (X front, Y side, Z top) and the position with the highest emission level was recorded.

4.2.2 Test Setup

Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



4.2.3 Test Procedure

	References Rule	Chapter	Description
<input checked="" type="checkbox"/>	ANSI C63.10	11.12	Emissions in restricted frequency bands
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.1	Radiated emission measurements
	<input checked="" type="checkbox"/> ANSI C63.10	11.12.2.7	Radiated spurious emission test
	<input checked="" type="checkbox"/> ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	<input checked="" type="checkbox"/> ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	<input type="checkbox"/> ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Channel Bandwidth

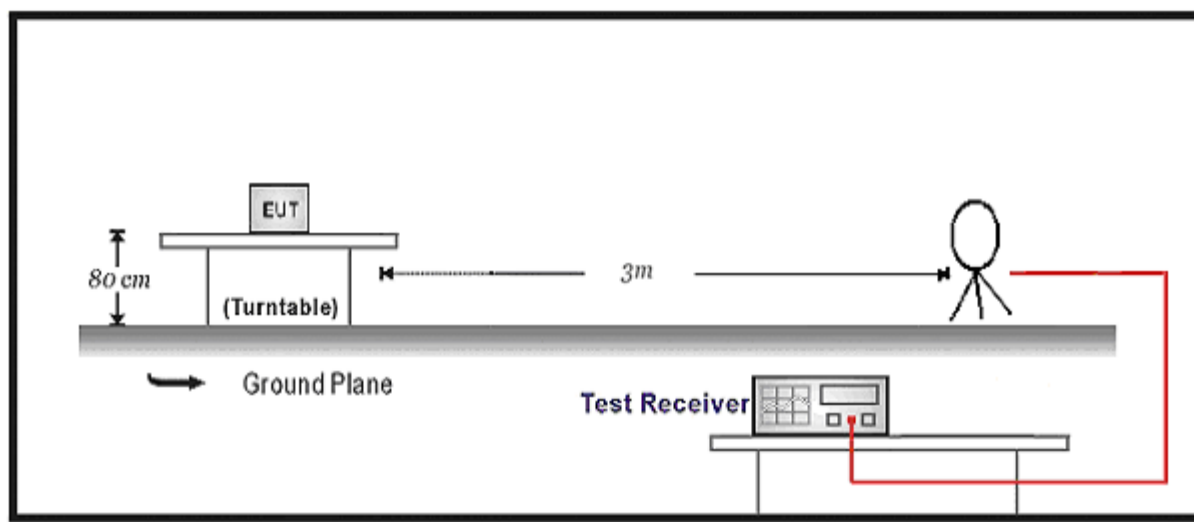
VERDICT: PASS

4.3.1 Limit

Standard	FCC Part 15 Subpart C
-----------------	-----------------------

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.215(c), must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

4.3.2 Test Setup



4.3.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with the RBW 1%~5% of 20dBc bandwidth and the VBW three times of the RBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.4 Antenna Requirement	VERDICT: PASS
--------------------------------	----------------------

4.4.1 Limit:	
Standard	FCC Part 15 Subpart C Paragraph 15.203
<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible LE party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or any electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed by LE, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible LE for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p>	

4.4.2 Antenna Connector Construction:	
<input checked="" type="checkbox"/>	The use of a permanently attached antenna
<input type="checkbox"/>	The antenna use of a unique coupling to the intentional radiator
<input type="checkbox"/>	The use of a nonstandard antenna jack or any electrical connector
Please refer to the attached document "Internal Photograph" to show the antenna connector.	

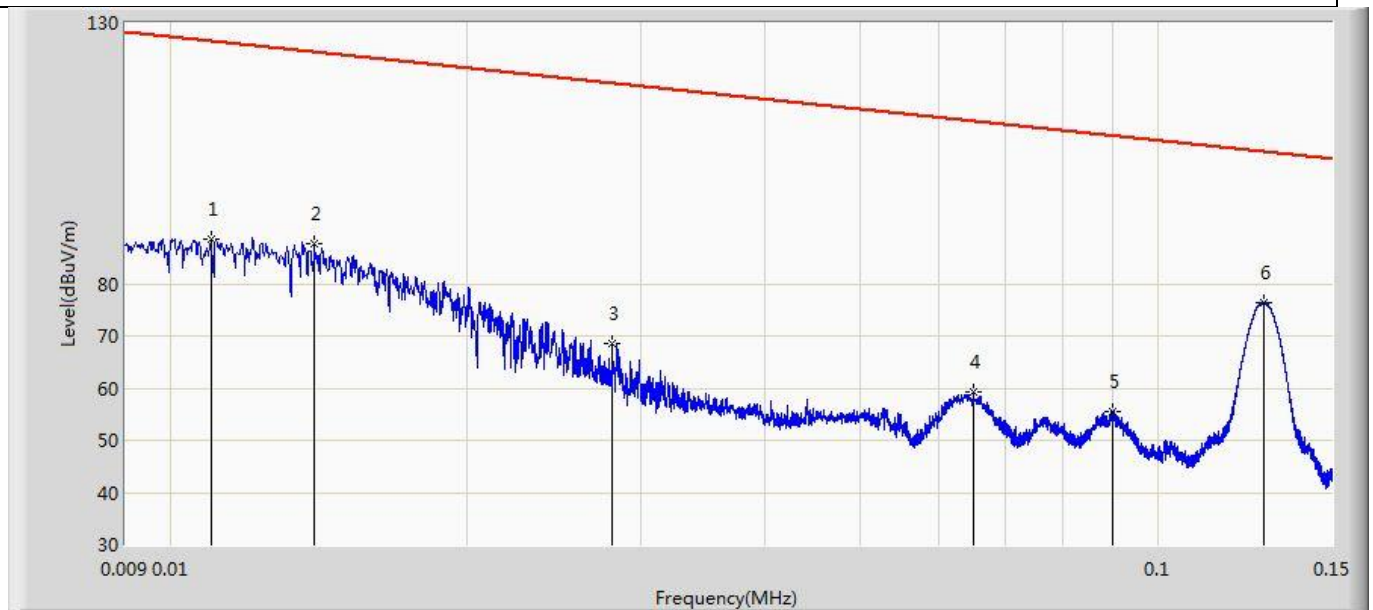
5 TEST SETUP PHOTO AND EUT PHOTO

Remark: The test setup photo and EUT Photo please see appendix.

6 TEST RESULT-APPENDIX A: Field Strength of Spurious

Test Data

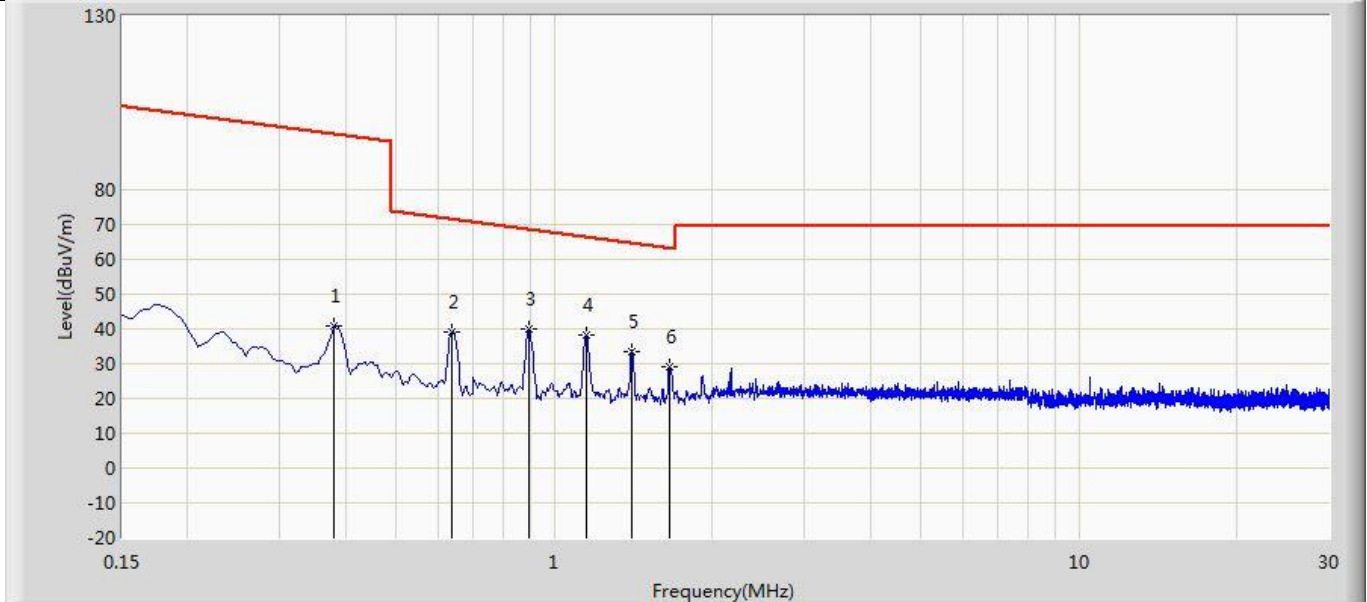
Profile: 2350237R	Page No.: 1
Engineer: Yuliu	
Site: AC2	Time: 2023/05/19 - 18:52
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: X
EUT: Wireless Device Charger	Power: 13.5 Vdc
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.011	88.601	67.508	-38.056	126.658	21.094	PK
2		0.014	87.798	66.611	-36.767	124.564	21.187	PK
3		0.028	68.540	46.919	-50.007	118.547	21.622	PK
4		0.065	59.164	37.230	-52.072	111.236	21.934	PK
5		0.090	55.415	33.510	-52.996	108.411	21.905	PK
6	*	0.128	76.440	54.578	-28.914	105.353	21.862	PK

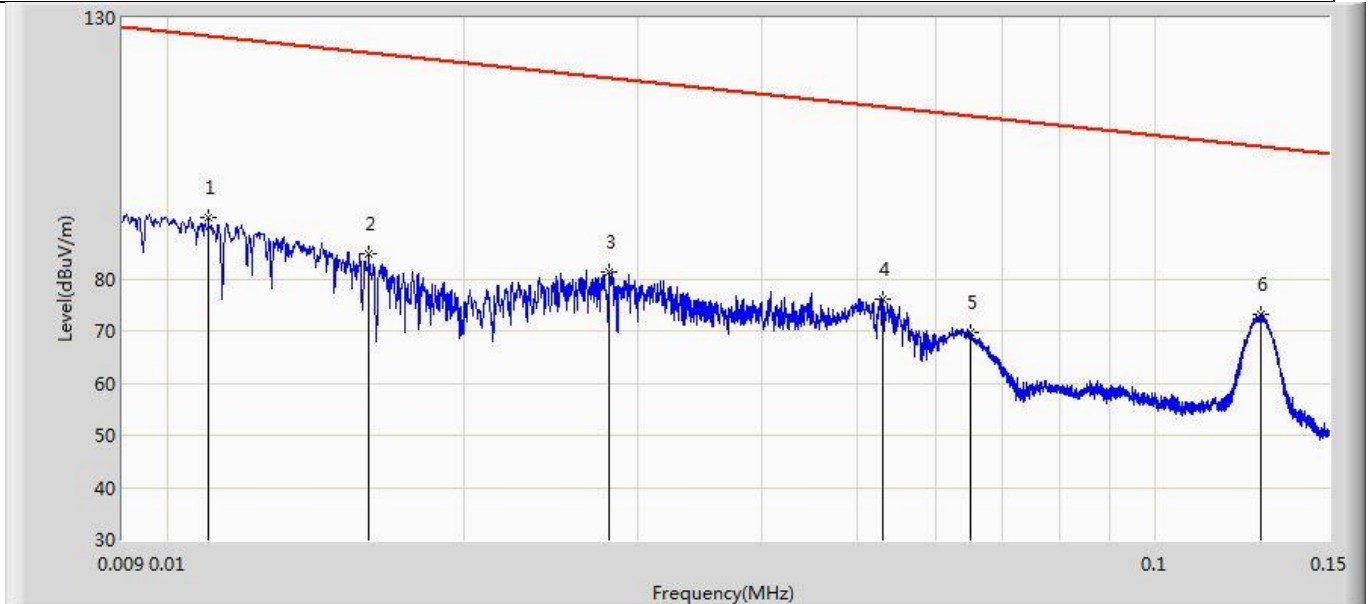
Note: Mark 6 is a fundamental emission, and everything else is a noise floor.

Profile: 2350237R	Page No.: 2
Engineer: Yuliu	
Site: AC2	Time: 2023/05/19 - 18:55
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: X
EUT: Wireless Device Charger	Power: 13.5 Vdc
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.381	40.798	19.197	-55.086	95.884	21.601	PK
2		0.639	39.205	18.153	-32.196	71.400	21.052	PK
3		0.896	39.783	19.520	-28.690	68.473	20.262	PK
4	*	1.150	38.396	18.303	-27.915	66.311	20.093	PK
5		1.404	33.669	13.320	-30.913	64.582	20.349	PK
6		1.661	29.146	8.533	-33.981	63.126	20.612	PK

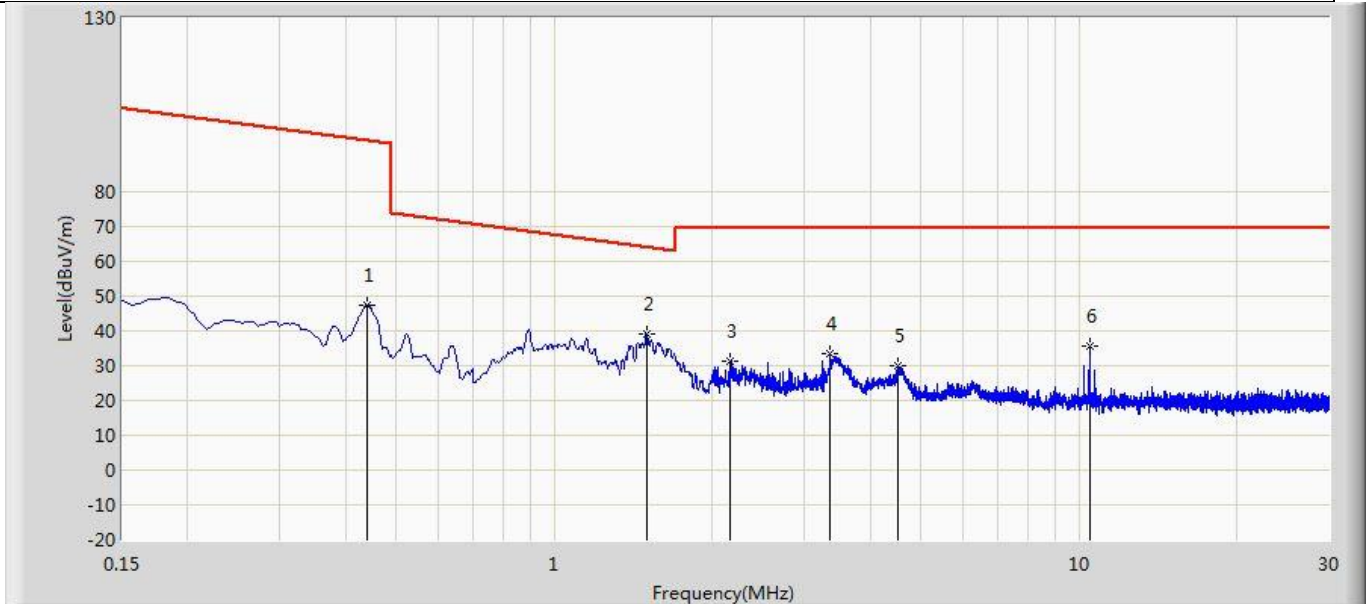
Profile: 2350237R	Page No.: 3
Engineer: Yuliu	
Site: AC2	Time: 2023/05/19 - 18:57
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Y
EUT: Wireless Device Charger	Power: 13.5 Vdc
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.011	91.630	71.037	-35.027	126.658	20.594	PK
2		0.016	84.699	63.950	-38.707	123.405	20.748	PK
3		0.028	81.439	60.318	-37.108	118.547	21.122	PK
4		0.053	76.197	54.750	-36.811	113.008	21.447	PK
5		0.065	69.738	48.304	-41.498	111.236	21.434	PK
6	*	0.128	73.073	51.711	-32.281	105.353	21.362	PK

Note: Mark 6 is a fundamental emission, and everything else is a noise floor.

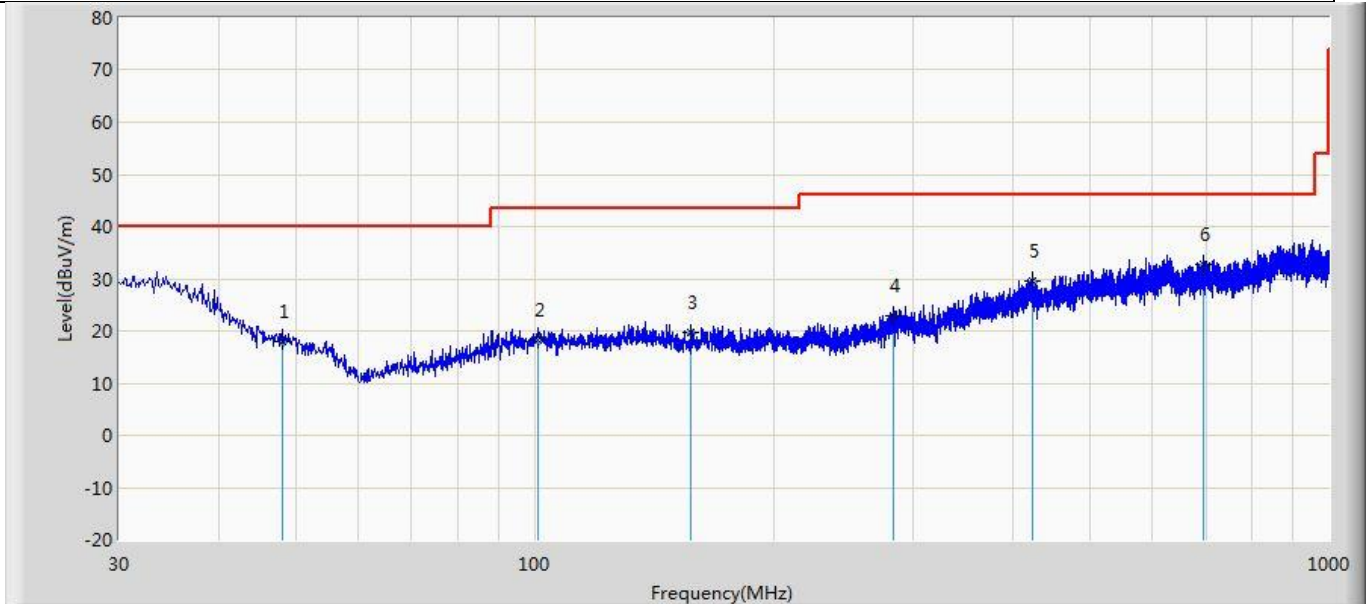
Profile: 2350237R	Page No.: 4
Engineer: Yuliu	
Site: AC2	Time: 2023/05/19 - 18:58
Limit: 15.209	Margin: 0
Probe: RF(0.009-30MHz)	Polarity: Y
EUT: Wireless Device Charger	Power: 13.5 Vdc
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		0.441	47.543	26.494	-47.071	94.615	21.050	PK
2	*	1.501	39.147	19.205	-24.857	64.004	19.942	PK
3		2.169	31.520	11.089	-37.880	69.400	20.432	PK
4		3.348	33.271	12.978	-36.129	69.400	20.294	PK
5		4.530	29.867	9.714	-39.533	69.400	20.153	PK
6		10.486	35.850	15.706	-33.550	69.400	20.144	PK

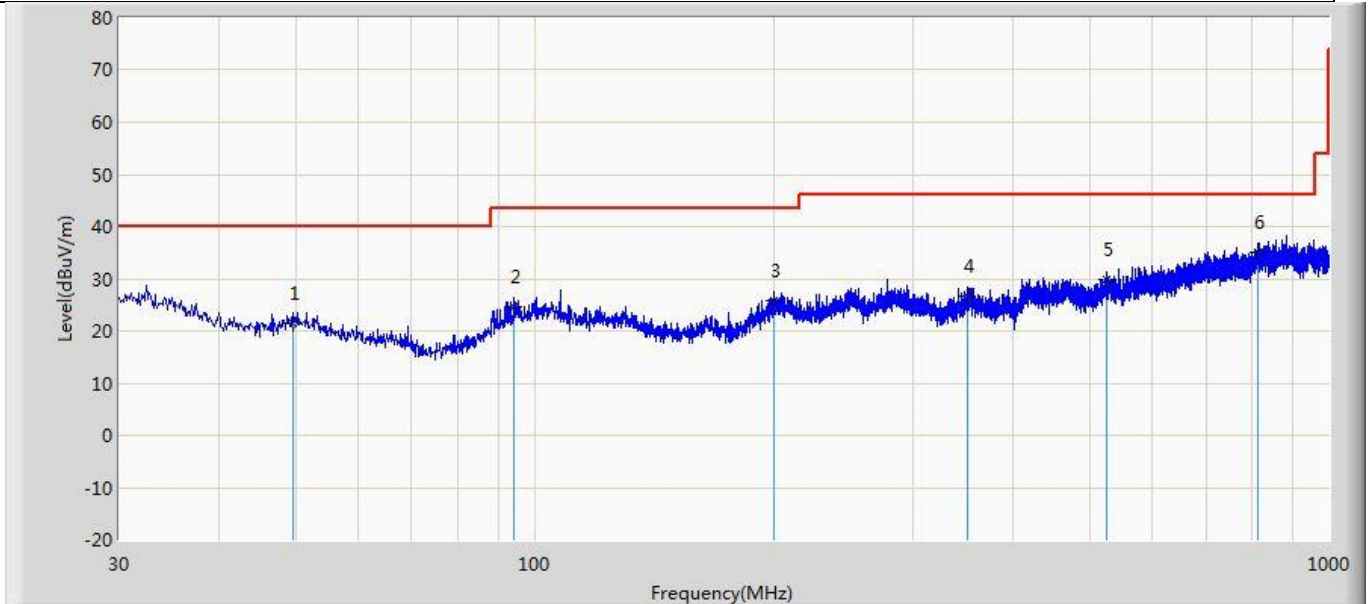
Note : We test the three polarities of X Y Z, and the report shows the two worst limits.

Profile: 2350237R	Page No.: 1
Engineer: Yuliu	
Site: AC2	Time: 2023/05/19 - 16:16
Limit: FCC_Part 15.209_RE (3m)_Class B	Margin: 0
Probe: AC2_3M (30-1000M)	Polarity: X
EUT: Wireless Device Charger	Power: 13.5 Vdc
Note: Mode1	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		48.066	18.115	1.863	-21.885	40.000	16.251	QP
2		101.174	18.315	1.218	-25.185	43.500	17.097	QP
3		157.555	19.637	2.646	-23.863	43.500	16.991	QP
4		283.534	22.844	2.611	-23.156	46.000	20.233	QP
5		423.092	29.615	2.426	-16.385	46.000	27.190	QP
6	*	695.420	32.883	3.645	-13.117	46.000	29.238	QP

Profile: 2350237R	Page No.: 2
Engineer: Yuliu	
Site: AC2	Time: 2023/05/19 - 16:16
Limit: FCC_Part 15.209_RE (3m)_Class B	Margin: 0
Probe: AC2_3M (30-1000M)	Polarity: Y
EUT: Wireless Device Charger	Power: 13.5 Vdc
Note: Mode1	



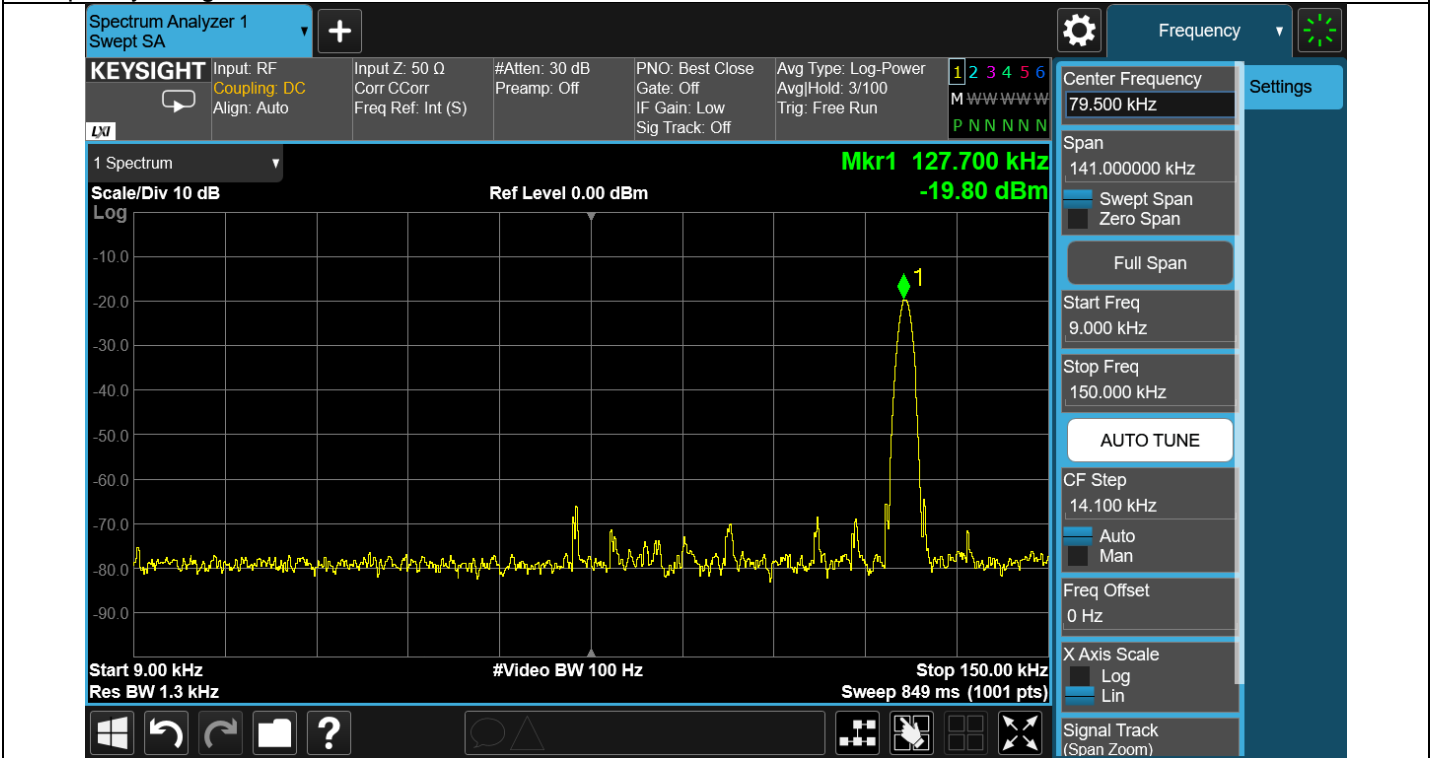
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV/m)	Factor (dB)	Type
1		49.764	21.553	2.133	-18.447	40.000	19.420	QP
2		94.262	24.781	5.332	-18.719	43.500	19.450	QP
3		200.114	25.819	2.399	-17.681	43.500	23.420	QP
4		351.191	26.792	1.848	-19.208	46.000	24.944	QP
5		525.427	29.861	3.111	-16.139	46.000	26.750	QP
6	*	815.215	34.991	2.178	-11.009	46.000	32.813	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Note 3: The limit value is based on QP, but the peak value can pass, so this result can pass.

Frequency Rangen 9kHz~150kHz

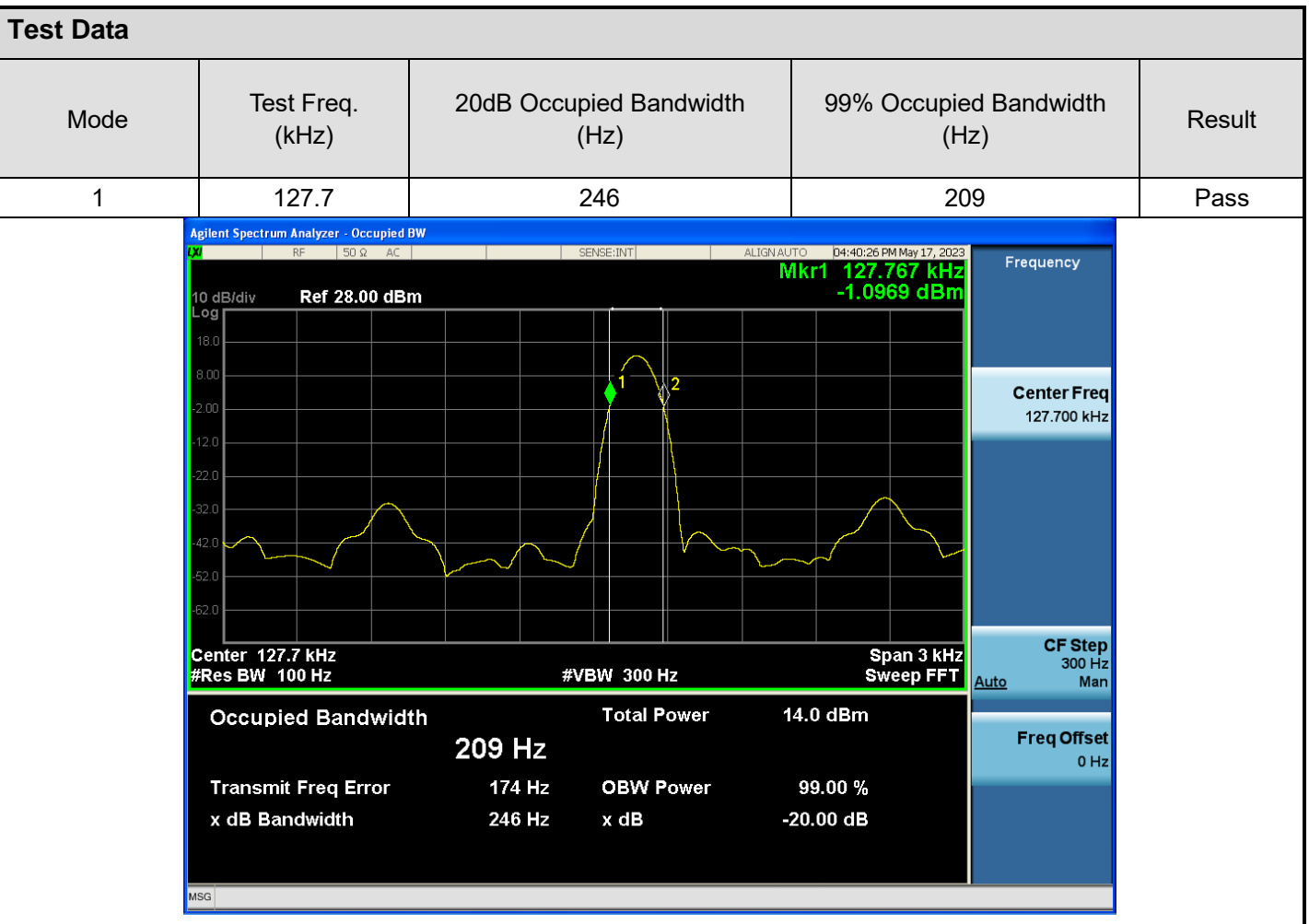


Frequency Rangen 150kHz~30MHz



Note: 9kHz~30MHz Except for 127.7kHz fundamental emission, all others are noise floor.

7 TEST RESULT-APPENDIX B: Channel Bandwidth



The End