



Shenzhen CTL Testing Technology Co., Ltd.
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TEST REPORT

FCC PART 15.247

Report Reference No.....: CTL2507222076-WF03M1

Compiled by:
(position+printed name+signature)

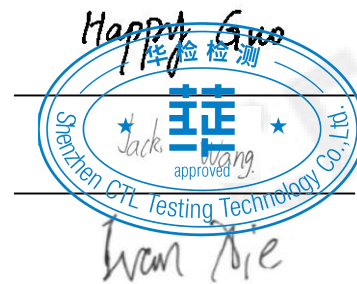
Happy Guo
(File administrators)

Tested by:
(position+printed name+signature)

Jack Wang
(Test Engineer)

Approved by:
(position+printed name+signature)

Ivan Xie
(Manager)



Product Name.....: Car Diagnostic Tool

Model/Type reference.....: DS600 BT

List Model(s).....: Refer the page 2

Trade Mark.....: ANCEL

FCC ID.....: 2ASC7DS600BT

Applicant's name.....: OBDSpace Technology Co., Ltd

Address of applicant.....: Room D03, Building A, No.973, MinZhi Avenue LongHua district,
Shenzhen City, China

Test Firm.....: Shenzhen CTL Testing Technology Co., Ltd.

Address of Test Firm.....: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road,
Nanshan District, Shenzhen, China 518055

Test specification.....:

Standard.....: FCC Part 15.247: Operation within the bands 902-928 MHz,
2400-2483.5 MHz and 5725-5850 MHz.

TRF Originator.....: Shenzhen CTL Testing Technology Co., Ltd.

Master TRF.....: Dated 2011-01

Date of receipt of test item.....: Aug 20, 2025

Date of Test Date.....: Aug 20, 2025-Jan 12, 2026

Date of Issue.....: Jan 13, 2026

Result.....: Pass

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TEST REPORT

Test Report No. : CTL2507222076-WF03M1	Jan 13, 2026 Date of issue
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Equipment under Test : Car Diagnostic Tool

Sample No : CTL2507222076

Model /Type : DS600 BT

Listed Models : DS610 BT, DS620 BT, DS630 BT, DS640 BT, DS650 BT,
DS660 BT, DS670 BT, DS680 BT, DS690 BT, DS600 Elite,
DS610 Elite, DS620 Elite, DS630 Elite, DS640 Elite, DS650
Elite, DS660 Elite, DS670 Elite, DS680 Elite, DS690 Elite

Applicant : **OBDSPACE TECHNOLOGY CO.,LTD**

Address : Room D03, Building A, No.973, MinZhi Avenue LongHua
district, Shenzhen City, China

Manufacturer : **OBDSPACE TECHNOLOGY CO.,LTD**

Address : Room D03, Building A, No.973, MinZhi Avenue LongHua
district, Shenzhen City, China

Test result	Pass *
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* In the configuration tested, the EUT complied with the standards specified page 5.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.

** Modified History **

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Table of Contents**Page**

1. SUMMARY.....	5
1.1. TEST STANDARDS.....	5
1.2. TEST DESCRIPTION.....	5
1.3. TEST FACILITY.....	6
1.4. STATEMENT OF THE MEASUREMENT UNCERTAINTY.....	6
1.5. EUT CONFIGURATION.....	7
2. GENERAL INFORMATION.....	8
2.1. ENVIRONMENTAL CONDITIONS.....	8
2.2. GENERAL DESCRIPTION OF EUT.....	8
2.3. DESCRIPTION OF TEST MODES AND TEST FREQUENCY.....	9
2.4. EQUIPMENTS USED DURING THE TEST.....	10
2.5. RELATED SUBMITTAL(S) / GRANT (S).....	11
2.6. MODIFICATIONS.....	11
3. TEST CONDITIONS AND RESULTS.....	12
3.1. CONDUCTED EMISSIONS TEST.....	12
3.2. RADIATED EMISSIONS.....	15
4. TEST SETUP PHOTOS OF THE EUT.....	18
5. PHOTOS OF THE EUT.....	18

1. SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

[47 CFR Part 15, Subpart C 15.247](#): Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

[ANSI C63.10: 2020](#): American National Standard for Testing Unlicensed Wireless Devices

[KDB 558074 D01 15.247 Meas Guidance v05r02](#) : Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247.

1.2. Test Description

47 CFR Part 15, Subpart C 15.247		
47 CFR Part 15, Subpart C 15.207	AC Power Conducted Emission	PASS
47 CFR Part 15, Subpart C 15.109/ 15.205/ 15.209	Radiated Emissions	PASS

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 22/EN 55022 requirements.

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No. 4343.01

Shenzhen CTL Testing Technology Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: 9618B

CAB identifier: CN0041

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements with Registration No.: 9618B.

FCC-Registration No.: 399832

Designation No.: CN1216

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Measurement Uncertainty	Notes
Transmitter power Radiated	±2.20 dB	(1)
Radiated Emission 9KHz~30MHz	±3.66dB	(1)
Radiated Emission 30~1000MHz	±4.08dB	(1)
Radiated Emission Above 1GHz	±4.32dB	(1)
DTS Bandwidth	±1.9%	(1)
Maximum Conducted Output Power	± 1.18 dB	(1)
Maximum Power Spectral Density Level	±0.98 dB	(1)
Band-edge	±1.21dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-7GHz: ±1.09dB 7GHz-26.5GHz: ±3.27dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

1.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- - supplied by the lab

☐	Adapter	Manufacturer :	SHENZHEN FUJIA APPLIANCE CO., LTD
☐		Model No. :	FJ-SW1260502600UN

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	Car Diagnostic Tool
Model/Type reference:	DS600 BT
Power supply:	DC 3.8V from battery
Working voltage:	Type-C Input: 5V $\pm$ 2.5A Battery: 3.8V, 4150mAh
2.4G Wi-Fi	
Supported type:	802.11b/802.11g/802.11n(HT20)/802.11n(HT40)
Modulation:	802.11b: DSSS 802.11g/802.11n(HT20)/802.11n(HT40): OFDM
Operation frequency:	802.11b/802.11g/802.11n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel number:	802.11b/802.11g/802.11n(HT20): 11 802.11n(HT40): 7
Channel separation:	802.11b/802.11g/802.11n(HT20)/802.11n(HT40)
Antenna type:	FPC Antenna
Antenna gain:	4.81dBi

Note1: For more details, please refer to the user's manual of the EUT.

Note2: Antenna gain provided by the applicant.

Note3: This report is based on test report CTL2507222076-WF03 with the following modifications.

Description of modify and/or change(s):

1. Add the series model.

2. Add an OBD port.

For the above described modification(s) the following testing are considered to be necessary:.

Modification	Testing	Comments	Result
1	N/A	No additional tests needed	N/A
2	Yes	47 CFR Part 15, Subpart C 15.207, 47 CFR Part 15, Subpart C 15.109/ 15.205/ 15.209	PASS

History of amendment and modifications:

Ref. No. CTL2507222076-WF03, dated September 17, 2025(original test report);

Ref. No. CTL2507222076-WF03M1, dated January 13, 2026(1st modification);

2.3. Description of Test Modes and Test Frequency

The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

There are 11 channels provided to the EUT and Channel 01/03/06/09/11 were selected for Wi-Fi test.

Operation Frequency Wi-Fi :

Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	2412	8	2447
2	2417	9	2452
3	2422	10	2457
4	2427	11	2462
5	2432		
6	2437		
7	2442		

Note: The line display in grey were the channel selected for testing

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

Test Items	Mode	Data Rate	Channel
Maximum Conducted Output Power Power Spectral Density 6dB Bandwidth Spurious RF conducted emission Radiated Emission 9kHz~1GHz& Radiated Emission 1GHz~10th Harmonic	11b/DSSS	1 Mbps	1/6/11
	11g/OFDM	6 Mbps	1/6/11
	11n(20MHz)/OFDM	6.5Mbps	1/6/11
	11n(40MHz)/OFDM	13.5Mbps	3/6/9
Band Edge	11b/DSSS	1 Mbps	1/11
	11g/OFDM	6 Mbps	1/11
	11n(20MHz)/OFDM	6.5Mbps	1/11
	11n(40MHz)/OFDM	13.5Mbps	3/9

2.4. Equipments Used during the Test

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.Due
EMI Test Receiver		ROHDE & SCHWARZ	ESCI	1166.5950.03	2025/04/29	2026/04/28
LISN		R&S	ESH2-Z5	860014/010	2025/04/29	2026/04/28
Limitator		ROHDE & SCHWARZ	ESH3-Z2	100408	2025/04/29	2026/04/28
Software:						
Name of Software:				Version:		
ES-K1				V1.71		
Radiated Emissions and Band Edge						
Test Equipment		Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Active Loop Antenna		Da Ze	ZN30900A	/	2024/04/30	2027/04/29
Double cone logarithmic antenna		Schwarzbeck	VULB 9168	824	2023/02/13	2026/02/12
Horn Antenna		Sunol Sciences Corp.	DRH-118	A062013	2024/11/25	2027/11/24
Horn Antenna		Ocean Microwave	OBH1004 00	26999002	2024/12/21	2027/12/20
Amplifier		Agilent	8449B	3008A02306	2025/05/01	2026/04/30
Amplifier		Brief&Smart	LNA-4018	2104197	2024/04/30	2026/04/29
EMI Test Receiver		R&S	ESCI	1166.5950.03	2025/04/29	2026/04/28
Spectrum Analyzer		Keysight	N9020A	MY53420874	2025/04/29	2026/04/28
Test software						
Name of Software			Version			
EZ_EMC(Below 1GHz)			V1.1.4.2			
EZ_EMC(Above 1GHz)			V1.1.4.2			
Maximum Peak Output Power & 20dB Bandwidth & Frequency Separation & Number of hopping frequency & Dwell Time & Out-of-band Emissions						
Test Equipment		Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Spectrum Analyzer		Keysight	N9020A	MY53420874	2025/04/29	2026/04/28
Temperature/Humidity Meter		Ji Yu	MC501	/	2025/05/06	2026/05/05
High frequency power meter		Agilent	E4419B	GB4331787	2025/04/29	2026/04/28
Test Software						
Name of Software			Version			
TST-PASS			V2.0			

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

3. TEST CONDITIONS AND RESULTS

3.1. Conducted Emissions Test

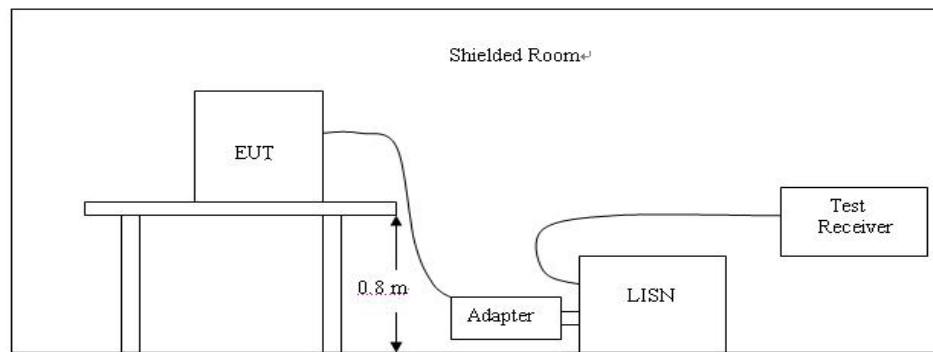
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION

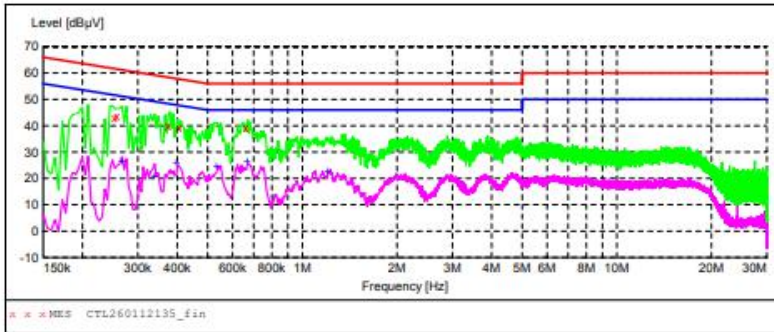


TEST PROCEDURE

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a bObsweep Pet Hair Vision Plus Robot Vacuum Cleaner op system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10:2020.
2. Support equipment, if needed, was placed as per ANSI C63.10:2020.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10:2020.
4. The adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

Remark:802.11b/802.11g/802.11n(H20)/802.11n(H40) mode all have been tested ,only worse case is reported.

Test Mode	Wi-Fi	Line:	L																																																																																																								
SCAN TABLE: "Voltage (9K-30M)FIN" Short Description: 150K-30M Voltage  MEASUREMENT RESULT: "CTL260112135_fin" 1/12/2026 11:35PM <table><tr><th>Frequency MHz</th><th>Level dBµV</th><th>Transd dB</th><th>Limit dBµV</th><th>Margin dB</th><th>Detector</th><th>Line</th><th>PE</th></tr><tr><td>0.253500</td><td>42.90</td><td>10.2</td><td>62</td><td>18.7</td><td>QP</td><td>L1</td><td>GND</td></tr><tr><td>0.258000</td><td>43.30</td><td>10.2</td><td>62</td><td>18.2</td><td>QP</td><td>L1</td><td>GND</td></tr><tr><td>0.375000</td><td>39.60</td><td>10.3</td><td>58</td><td>18.8</td><td>QP</td><td>L1</td><td>GND</td></tr><tr><td>0.406500</td><td>39.30</td><td>10.3</td><td>58</td><td>18.4</td><td>QP</td><td>L1</td><td>GND</td></tr><tr><td>0.663000</td><td>38.90</td><td>10.5</td><td>56</td><td>17.1</td><td>QP</td><td>L1</td><td>GND</td></tr></table> MEASUREMENT RESULT: "CTL260112135_fin2" 1/12/2026 11:35PM <table><tr><th>Frequency MHz</th><th>Level dBµV</th><th>Transd dB</th><th>Limit dBµV</th><th>Margin dB</th><th>Detector</th><th>Line</th><th>PE</th></tr><tr><td>0.267000</td><td>26.60</td><td>10.2</td><td>51</td><td>24.6</td><td>AV</td><td>L1</td><td>GND</td></tr><tr><td>0.339000</td><td>21.10</td><td>10.3</td><td>49</td><td>28.1</td><td>AV</td><td>L1</td><td>GND</td></tr><tr><td>0.397500</td><td>25.60</td><td>10.3</td><td>48</td><td>22.3</td><td>AV</td><td>L1</td><td>GND</td></tr><tr><td>0.532500</td><td>24.80</td><td>10.4</td><td>46</td><td>21.2</td><td>AV</td><td>L1</td><td>GND</td></tr><tr><td>0.667500</td><td>26.80</td><td>10.5</td><td>46</td><td>19.2</td><td>AV</td><td>L1</td><td>GND</td></tr><tr><td>1.203000</td><td>23.00</td><td>10.7</td><td>46</td><td>23.0</td><td>AV</td><td>L1</td><td>GND</td></tr></table>				Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	0.253500	42.90	10.2	62	18.7	QP	L1	GND	0.258000	43.30	10.2	62	18.2	QP	L1	GND	0.375000	39.60	10.3	58	18.8	QP	L1	GND	0.406500	39.30	10.3	58	18.4	QP	L1	GND	0.663000	38.90	10.5	56	17.1	QP	L1	GND	Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE	0.267000	26.60	10.2	51	24.6	AV	L1	GND	0.339000	21.10	10.3	49	28.1	AV	L1	GND	0.397500	25.60	10.3	48	22.3	AV	L1	GND	0.532500	24.80	10.4	46	21.2	AV	L1	GND	0.667500	26.80	10.5	46	19.2	AV	L1	GND	1.203000	23.00	10.7	46	23.0	AV	L1	GND
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SCAN TABLE: "Voltage (9K-30M)FIN" Short Description: 150K-30M Voltage MEASUREMENT RESULT: "CTL260112140_fin" 1/12/2026 11:50PM <table><tr><th>Frequency MHz</th><th>Level dBμV</th><th>Transd dB</th><th>Limit dBμV</th><th>Margin dB</th><th>Detector</th><th>Line</th><th>PE</th></tr><tr><td>0.258000</td><td>40.50</td><td>10.2</td><td>62</td><td>21.0</td><td>QP</td><td>N</td><td>GND</td></tr><tr><td>0.271500</td><td>40.50</td><td>10.2</td><td>61</td><td>20.6</td><td>QP</td><td>N</td><td>GND</td></tr><tr><td>0.442500</td><td>37.70</td><td>10.3</td><td>57</td><td>19.3</td><td>QP</td><td>N</td><td>GND</td></tr><tr><td>0.568500</td><td>36.50</td><td>10.4</td><td>56</td><td>19.5</td><td>QP</td><td>N</td><td>GND</td></tr><tr><td>0.573000</td><td>35.40</td><td>10.4</td><td>56</td><td>20.6</td><td>QP</td><td>N</td><td>GND</td></tr><tr><td>0.672000</td><td>39.10</td><td>10.5</td><td>56</td><td>16.9</td><td>QP</td><td>N</td><td>GND</td></tr></table> MEASUREMENT RESULT: "CTL260112140_fin2" 1/12/2026 11:50PM <table><tr><th>Frequency MHz</th><th>Level dBμV</th><th>Transd dB</th><th>Limit dBμV</th><th>Margin dB</th><th>Detector</th><th>Line</th><th>PE</th></tr><tr><td>0.559500</td><td>21.50</td><td>10.4</td><td>46</td><td>24.5</td><td>AV</td><td>N</td><td>GND</td></tr><tr><td>0.667500</td><td>25.10</td><td>10.5</td><td>46</td><td>20.9</td><td>AV</td><td>N</td><td>GND</td></tr><tr><td>1.383000</td><td>19.20</td><td>10.7</td><td>46</td><td>26.8</td><td>AV</td><td>N</td><td>GND</td></tr><tr><td>3.102000</td><td>19.50</td><td>11.0</td><td>46</td><td>26.5</td><td>AV</td><td>N</td><td>GND</td></tr><tr><td>4.240500</td><td>21.70</td><td>11.0</td><td>46</td><td>24.3</td><td>AV</td><td>N</td><td>GND</td></tr><tr><td>4.969500</td><td>22.10</td><td>11.1</td><td>46</td><td>23.9</td><td>AV</td><td>N</td><td>GND</td></tr></table>				Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	0.258000	40.50	10.2	62	21.0	QP	N	GND	0.271500	40.50	10.2	61	20.6	QP	N	GND	0.442500	37.70	10.3	57	19.3	QP	N	GND	0.568500	36.50	10.4	56	19.5	QP	N	GND	0.573000	35.40	10.4	56	20.6	QP	N	GND	0.672000	39.10	10.5	56	16.9	QP	N	GND	Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE	0.559500	21.50	10.4	46	24.5	AV	N	GND	0.667500	25.10	10.5	46	20.9	AV	N	GND	1.383000	19.20	10.7	46	26.8	AV	N	GND	3.102000	19.50	11.0	46	26.5	AV	N	GND	4.240500	21.70	11.0	46	24.3	AV	N	GND	4.969500	22.10	11.1	46	23.9	AV	N	GND
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3.2. Radiated Emissions

Limit

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission out of authorized band shall not exceed the following table at a 3 meters measurement distance.

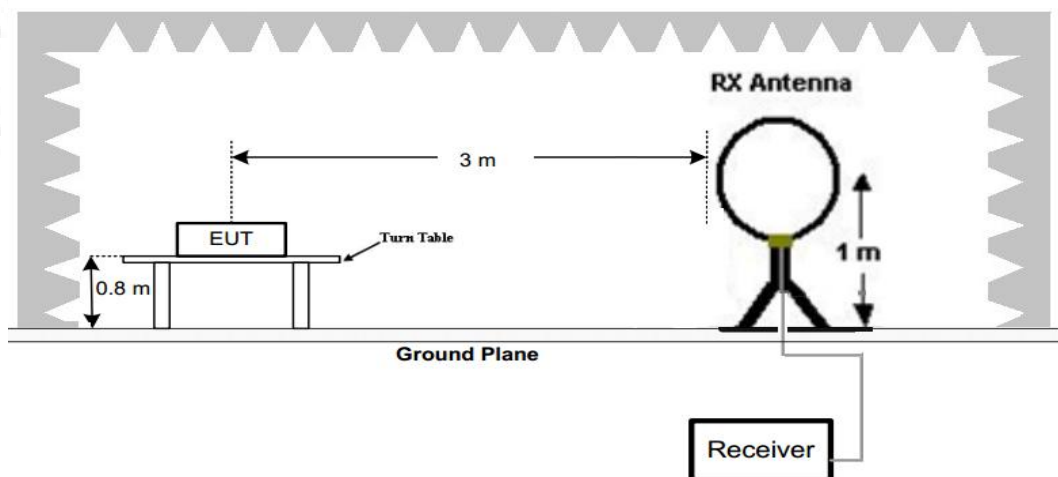
In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a)

Radiated emission limits

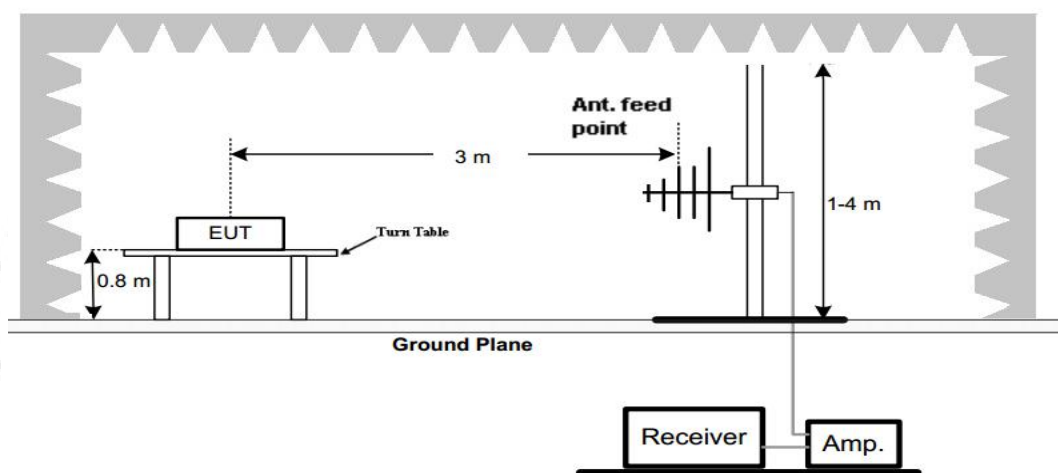
Frequency (MHz)	Distance (Meters)	Radiated (dB μ V/m)	Radiated (μ V/m)
0.009-0.49	3	$20\log(2400/F(\text{KHz}))+40\log(300/3)$	$2400/F(\text{KHz})$
0.49-1.705	3	$20\log(24000/F(\text{KHz}))+40\log(30/3)$	$24000/F(\text{KHz})$
1.705-30	3	$20\log(30)+40\log(30/3)$	30
30-88	3	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	500

TEST CONFIGURATION

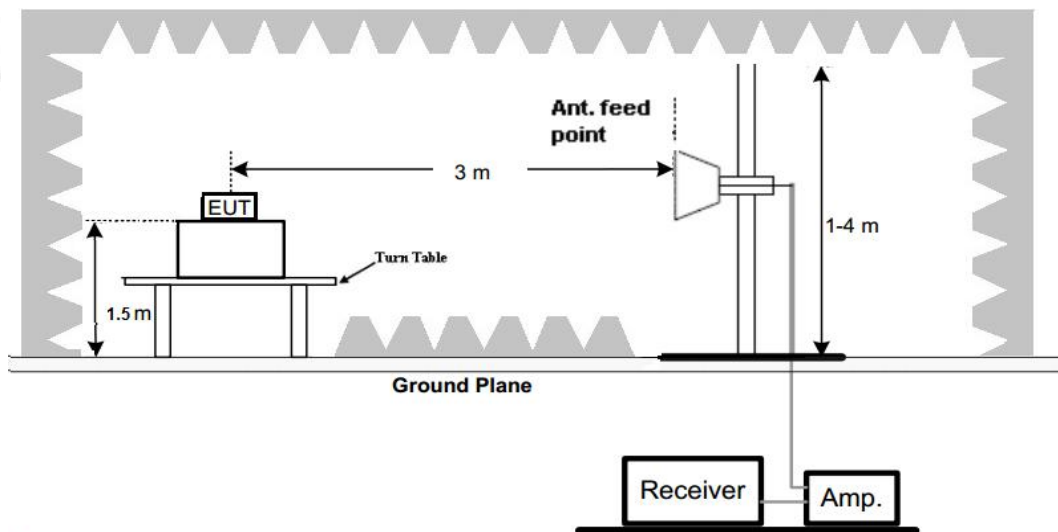
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



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



(C) Radiated Emission Test Set-Up, Frequency above 1000MHz

**Test Procedure**

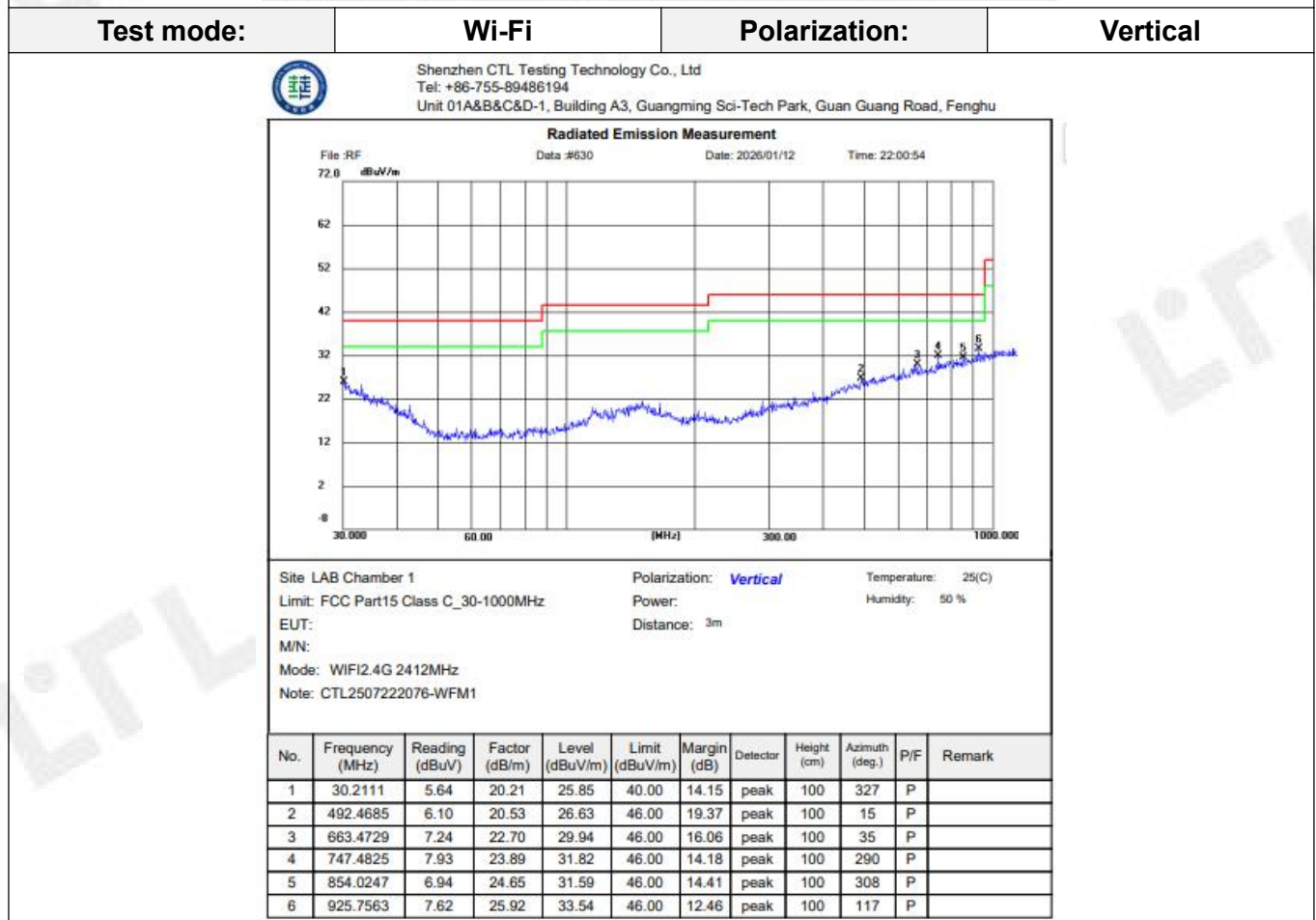
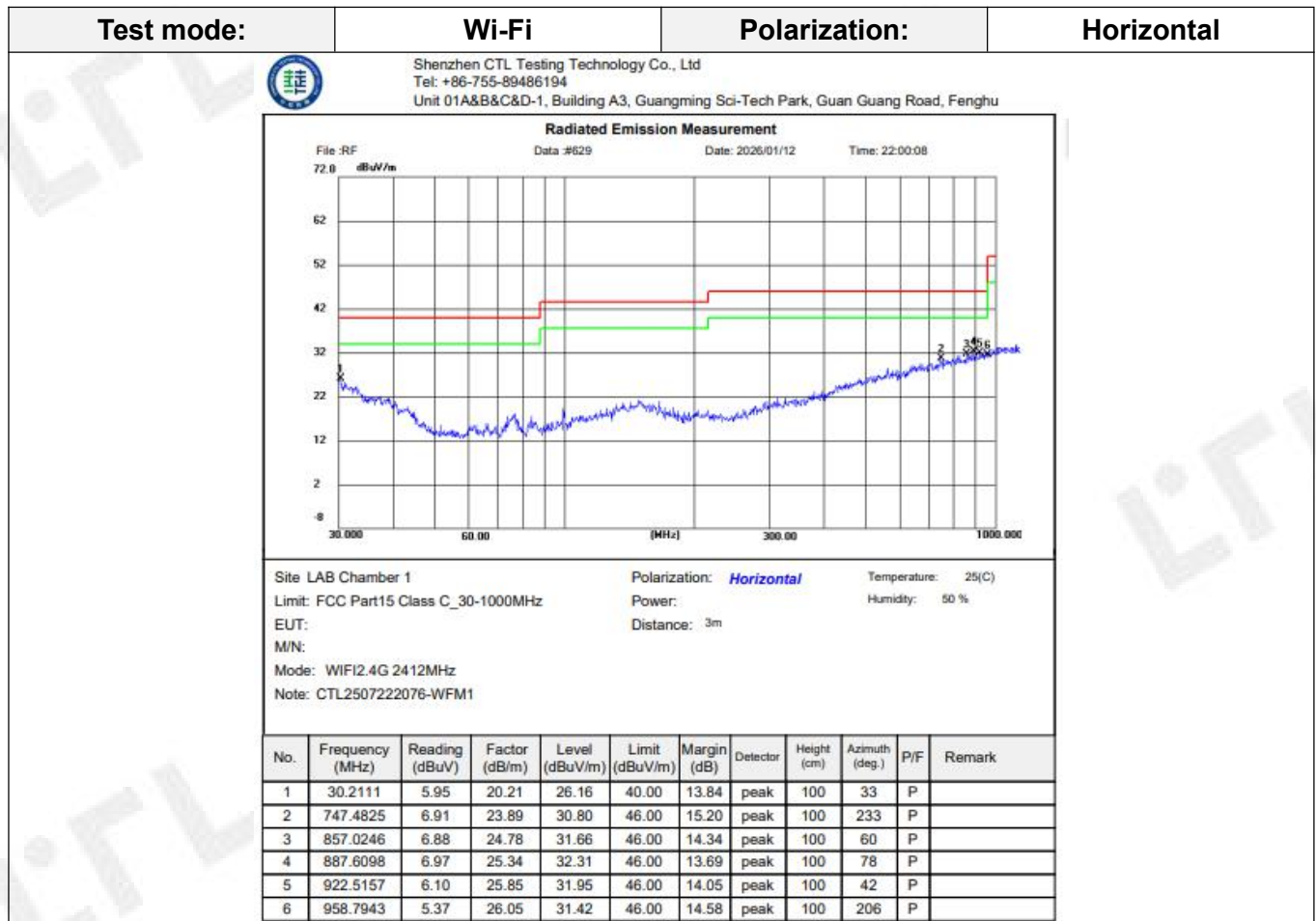
1. Below 1GHz measurement the EUT is placed on a turntable which is 0.8m above ground plane, and above 1GHz measurement EUT was placed on a low permittivity and low loss tangent turn table which is 1.5m above ground plane.
2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT
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 measurements have been completed.
5. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The X-plane results were found as the worst case and were shown in this report.

TEST RESULTS

Remark:

1. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
2. All three channels (lowest/middle/highest) of each mode were measured above 1GHz and recorded worst case at 802.11b mode.
3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, Found the emission level are attenuated 20dB below the limits from 9 kHz to 30MHz, so it does not recorded in report.

For 30MHz-1GHz



4. Test Setup Photos of the EUT

Reference to the test report No. CTL2507222076-WF01M1

5. Photos of the EUT

Reference to the test report No. CTL2507222076-WF01M1

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