

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen. China

Report Template Version: V05

Report Template Revision Date: 2021-11-03

Telephone: +86-755-26648640 Fax: +86-755-26648637

Website: <u>www.cqa-cert.com</u>

TEST REPORT

Report No.: CQASZ20240801777E-01

Applicant: Icarsoft Technology Inc.

Address of Applicant: 1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.

Equipment Under Test (EUT):

Product: wireless diagnostic interface

Model No.: CR Eagle VCI

Test Model No.: CR Eagle VCI

Brand Name: iCarsoft

FCC ID: 2AWD8-CREAGLEVCI

Standards: 47 CFR Part 15, Subpart C

KDB558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10:2013

Date of Receipt: 2024-08-21

Date of Test: 2024-08-21 to 2024-09-13

Date of Issue: 2024-09-29
Test Result: PASS*

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

Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Alex Wang)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



Report No.: CQASZ20240801777E-01

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date	
CQASZ20240801777E-01	Rev.01	Initial report	2024-09-29	



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	N/A	PASS
AC Power Line Conducted Emission	47 CFR Part 15.207	ANSI C63.10-2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15.247	ANSI C63.10-2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Power Spectral Density	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Radiated Spurious Emissions	47 CFR Part 15.209	ANSI C63.10-2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15.205/15.209	ANSI C63.10-2013	PASS

Remark:

The tested sample(s) and the sample information are provided by the client.

Tx: In this whole report Tx (or tx) means Transmitter.

Rx: In this whole report Rx (or rx) means Receiver.

RF: In this whole report RF means Radiated Frequency.

CH: In this whole report CH means channel.

Volt: In this whole report Volt means Voltage.

Temp: In this whole report Temp means Temperature.

Humid: In this whole report Humid means humidity.

Press: In this whole report Press means Pressure.

N/A: In this whole report not application



3 Contents

1 VERSION		Page
3 CONTENTS. 4 4 GENERAL INFORMATION		
4 GENERAL INFORMATION 5 4.1 CLIENT INFORMATION 5 4.2 GENERAL DESCRIPTION OF EUT 5 4.3 PRODUCT SPECIFICATION SUBLECTIVE TO THIS STANDARD 5 4.4 TEST ENVIRONMENT AND MODE 7 4.5 DESCRIPTION OF SUPPORT UNITS 8 4.6 TEST LOCATION 8 4.7 TEST FACILITY 8 4.8 STATEMENT OF THE MEASUREMENT UNCERTAINTY 9 4.9 DEVIATION FROM STANDARDS 9 4.10 ABNORMALITIES FROM STANDARD CONDITIONS 9 4.11 OTHER INFORMATION REQUESTED BY THE CUSTOMER 9 4.12 EQUIPMENT LIST 10 5 TEST RESULTS AND MEASUREMENT DATA 11 5.1 ANTENNA REQUIREMENT 11 5.2 CONDUCTED EMISSIONS 12 5.3 CONDUCTED PEAR & AVERAGE OUTPUT POWER 16 6 Test Result 17 When Duty cycle > 98%, D.C.F is not required 17 Test Graphs 18 5.4 60B OCCUPIED BANDWIDTH 23 7 Test Result 24 Test Result 24 Test Result 31 Test Result 32 5.5 POWER SPECTRAL DENSITY	2 TEST SUMMARY	3
4.1 CLIENT INFORMATION 5 4.2 GENERAL DESCRIPTION OF EUT .5 4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD .5 4.4 TEST ENVIRONMENT AND MODE .7 4.5 DESCRIPTION OF SUPPORT UNITS .8 4.6 TEST LOCATION .8 4.7 TEST FACILITY .8 4.8 STATEMENT OF THE MEASUREMENT UNCERTAINTY .9 4.9 DEVIATION FROM STANDARDS .9 4.10 ABNORMALITIES FROM STANDARDS .9 4.11 OTHER INFORMATION REQUESTED BY THE CUSTOMER .9 4.12 EQUIPMENT LIST .0 5 TEST RESULTS AND MEASUREMENT DATA .11 5.1 ANTENNA REQUIREMENT .11 5.2 CONDUCTED EMISSIONS .12 5.3 CONDUCTED EMISSIONS .12 7.5 CONDUCTED PEAK & AVERAGE OUTPUT POWER .16 Test Result .17 Note: .17 When Duty cycle >98%, D.C.F is not required .17 Test Graphs .18 5.4 60B OCCUPIED BANDWIDTH .23 Test Result .31 Test Graphs .32 5.5 POWER SPECITAL DENSITY .30 75 FORDUCTED SPUR	3 CONTENTS	4
4.2 GENERAL DESCRIPTION OF EUT. .5 4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD .5 4.4 TEST ENVIRONMENT AND MODE .7 4.5 DESCRIPTION OF SUPPORT UNITS. .8 4.6 TEST LOCATION .8 4.7 TEST FACILITY .8 4.8 STATEMENT OF THE MEASUREMENT UNCERTAINTY. .9 4.9 DEVIATION FROM STANDARDS. .9 4.10 ABNORMALITIES FROM STANDARD CONDITIONS. .9 4.11 OTHER INFORMATION REQUESTED BY THE CUSTOMER .9 4.12 EQUIPMENT LIST .10 5 TEST RESULTS AND MEASUREMENT DATA. .11 5.1 ANTENNA REQUIREMENT .11 5.2 CONDUCTED EMISSIONS. .12 5.3 CONDUCTED EMISSIONS. .12 7.3 CONDUCTED EMISSIONS. .12 7.4 When Duty cycle >98%, D.C.F is not required. .17 Note: .17 When Duty cycle >98%, D.C.F is not required. .17 Test Graphs. .18 5.4 60B OCCUPIED BANDWIDTH .23 Test Graphs. .25 5.5 POWER SPECITAL DENSITY. .30 7 Test Graphs. .32 5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS. <td>4 GENERAL INFORMATION</td> <td>5</td>	4 GENERAL INFORMATION	5
4.12 EQUIPMENT LIST	4.2 GENERAL DESCRIPTION OF EUT 4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD 4.4 TEST ENVIRONMENT AND MODE 4.5 DESCRIPTION OF SUPPORT UNITS 4.6 TEST LOCATION 4.7 TEST FACILITY 4.8 STATEMENT OF THE MEASUREMENT UNCERTAINTY 4.9 DEVIATION FROM STANDARDS 4.10 ABNORMALITIES FROM STANDARD CONDITIONS	
5.1 ANTENNA REQUIREMENT 11 5.2 CONDUCTED EMISSIONS 12 5.3 CONDUCTED PEAK & AVERAGE OUTPUT POWER 16 Test Result 17 Note: 17 When Duty cycle >98%, D.C.F is not required 17 Test Graphs 18 5.4 6DB OCCUPIED BANDWIDTH 23 Test Result 24 Test Graphs 25 5.5 POWER SPECTRAL DENSITY 30 Test Result 31 Test Graphs 32 5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS 37 Test Result 38 5.6.1 Test Graphs 39 5.7 RF CONDUCTED SPURIOUS EMISSIONS 42 Test Result 43 Test Graphs 45 5.8 RADIATED SPURIOUS EMISSIONS 58 5.8.1 Radiated emission below 1GHz 61 5.8 2 Transmitter emission above 1GHz 61 5.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY 71 6 PHOTOGRAPHS - EUT TEST SETUP 77 6.1 RADIATED SPURIOUS EMISSION 78 6.2 CONDUCTED EMISSION 78		
5.2 CONDUCTED EMISSIONS 12 5.3 CONDUCTED PEAK & AVERAGE OUTPUT POWER 16 Test Result 17 Note: 17 When Duty cycle >98%, D.C.F is not required 17 Test Graphs 18 5.4 60B Occupied Bandwidth 23 Test Result 24 Test Graphs 25 5.5 POWER SPECTRAL DENSITY 30 Test Result 31 Test Graphs 32 5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS 37 Test Result 38 5.6.1 Test Graphs 39 5.7 RF CONDUCTED SPURIOUS EMISSIONS 42 Test Result 43 Test Graphs 45 5.8 RADIATED SPURIOUS EMISSIONS 58 5.8.1 Radiated emission below 1GHz 61 5.8.2 Transmitter emission above 1GHz 61 5.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY 71 6 PHOTOGRAPHS - EUT TEST SETUP 77 6.1 RADIATED SPURIOUS EMISSION 78 6.2 CONDUCTED EMISSION 78	5 TEST RESULTS AND MEASUREMENT DATA	11
6.2 CONDUCTED EMISSION	5.2 CONDUCTED EMISSIONS 5.3 CONDUCTED PEAK & AVERAGE OUTPUT POWER. Test Result Note: When Duty cycle >98%, D.C.F is not required. Test Graphs 5.4 6DB OCCUPIED BANDWIDTH Test Result Test Graphs 5.5 POWER SPECTRAL DENSITY. Test Result Test Graphs 5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS. Test Result 5.6.1 Test Graphs 5.7 RF CONDUCTED SPURIOUS EMISSIONS. Test Result Test Graphs 5.8 RADIATED SPURIOUS EMISSIONS. 5.8.1 Radiated emission below 1GHz 5.8.2 Transmitter emission above 1GHz 5.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY.	
/ DECLIFICATION ELITICATION CONTROL TELATIVE	6.2 CONDUCTED EMISSION	78



Report No.: CQASZ20240801777E-01

4 General Information

4.1 Client Information

Applicant:	Icarsoft Technology Inc.
Address of Applicant:	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Manufacturer:	Icarsoft Technology Inc.
Address of Manufacturer:	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.
Factory:	Dongguan Yongdong Electronic Technology Co., Ltd
Address of Factory:	No. 10,4th Street, Zhangyang Fuzhu Industrial Zone,Zhangmutou town, Dongguan City

4.2 General Description of EUT

Product Name:	wireless diagnostic interface
Model No.:	CR Eagle VCI
Test Model No.:	CR Eagle VCI
Trade Mark:	iCarsoft
Software Version:	Boot:H23.10; Firmware:H24.06
Hardware Version:	V1.02
Power Supply:	Power supply DC12V form OBD
EUT Supports Radios	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz;
application:	802.11n(HT40): 2422MHz~2452MHz
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.
	⊠ Simultaneous TX is not supported.

4.3 Product Specification subjective to this standard

Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz
	IEEE 802.11n(HT40): 2422MHz to 2452MHz
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels
	IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK)
•	IEEE for 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
	IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK, BPSK)
Transfer Rate:	IEEE for 802.11b:
	1Mbps/2Mbps/5.5Mbps/11Mbps
	IEEE for 802.11g :
	6Mbps/9Mbps/12Mbps/18Mbps/24Mbps/36Mbps/48Mbps/54Mbps
	IEEE for 802.11n(HT20) :
	6.5Mbps/13Mbps/19.5Mbps/26Mbps/39Mbps/52Mbps/58.5Mbps/65Mbps
	IEEE for 802.11n(HT40):
	13.5Mbps/27Mbps/40.5Mbps/54Mbps/81Mbps/108Mbps/121.5Mbps/135Mbps
Product Type:	⊠ Mobile ☐ Portable
Test Software of EUT:	QATool_Dbg
Antenna Type:	PCB antenna



Antenna Gain:	2.5dBi
---------------	--------



Report No.: CQASZ20240801777E-01

Operation F	Operation Frequency each of channel(802.11b/g/n HT20)											
Channel	Fre	equency	Channe	I Frequency	Channel	Fre	quency	Char	nel	Frequency		
1	24	112MHz	4	2427MHz	7	244	2442MHz		2442MHz)	2457MHz
2	24	117MHz	5	2432MHz	8	244	17MHz 11			2462MHz		
3	24	122MHz	6	2437MHz	9	245	2452MHz					
Operation F	Operation Frequency each of channel(802.11n HT40)											
Channel Frequency				Channel	Frequen	су	Chan	nel	F	requency		
3		2422	ИНz	6	2437MH	łz	9			2452MHz		
4		24271	ИНz	7	2442MH	łz						
5		2432	ИНz	8	2447MH	łz						

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

1 01 002.1111 (111 10).			
Channel	Frequency		
The Lowest channel	2422MHz		
The Middle channel	2437MHz		
The Highest channel	2452MHz		

Note:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



Report No.: CQASZ20240801777E-01

4.4 Test Environment and Mode

Operating Environment:	
Radiated Emissions:	
Temperature:	25.3 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.6 °C
Humidity:	60 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item te	est (RF Conducted test room):
Temperature:	25.5 °C
Humidity:	52 % RH
Atmospheric Pressure:	1009 mbar
Test mode:	
Transmitting mode:	EUT is set in RF test mode in all supported modulation types, bandw and data rate, etc.
	Normal Mode
Nss 2 Spetial Idx FTX/RX0 FTX/RX1 TX RX FTSSI F DPD FSTEC LDPC FSG	Reset counter
TX frame setting FC (2)	22834455 0000 ern(3)



Report No.: CQASZ20240801777E-01

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
1	/	1	1	/
2) Cable				

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	/	/	1	/

4.6 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua New District, Shenzhen, Guangdong, China

4.7 Test Facility

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

• A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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 No.:522263



4.8 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 Huaxia Testing Technology Co., Ltd.** guality 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 CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8℃	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	Frequency Error	5.5 Hz	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.9 Deviation from Standards

None.

4.10 Abnormalities from Standard Conditions

None.

4.11 Other Information Requested by the Customer

None.



4.12 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2023/09/08	2024/09/07
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2023/09/08	2024/09/07
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2023/09/08	2024/09/07
Preamplifier	EMCI	EMC184055SE	CQA-089	2023/09/08	2024/09/07
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/09/16	2024/09/15
Bilog Antenna	R&S	HL562	CQA-011	2021/09/16	2024/09/15
Horn Antenna	R&S	HF906	CQA-012	2021/09/16	2024/09/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/09/16	2024/09/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2023/09/08	2024/09/07
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2023/09/08	2024/09/07
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2023/09/08	2024/09/07
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2023/09/08	2024/09/07
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2023/09/08	2024/09/07

Test software:

1 GGt GGTtWare.		
	Manufacturer	Software brand
Radiated Emissions test software	Tonscend	JS1120-3
Conducted Emissions test software	Audix	e3
RF Conducted test software	Audix	e3



Report No.: CQASZ20240801777E-01

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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 electrical connector is prohibited.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:



The antenna is FPC antenna.

The connection/connection type between the antenna to the EUT's antenna port is: unique coupling This is either permanently attachment or a unique coupling that satisfies the requirement.



Report No.: CQASZ20240801777E-01

5.2 Conducted Emissions

47 CFR Part 15C Section 15.2	207		
ANSI C63.10: 2013			
150kHz to 30MHz			
Frequency range (MHz)	Limit (c	lBuV)	
Trequency range (WH12)	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 logarithn	n of the frequency.		
1) The mains terminal disturbation. 2) The EUT was connected to Impedance Stabilization N impedance. The power call connected to a second reference plane in the same way as multiple socket outlet strip a single LISN provided the rassingle LISN provided	cance voltage test was bance voltage test was been all other units of LISN 2, which was the LISN 1 for the unit was used to connect ating of the LISN was reced upon a non-metalling for floor-standing arround reference plane, the a vertical ground reffrom the vertical ground reference und reference plane. The total ground reference plane. The softhe LISN 1 and the quipment was at least the terface cables must be the control of the terface cables must be the control of the capture of the terface cables must be the control of the terface cables must be the control of the capture of the terface cables must be the control of the terface cables must be the capture of the terface of the t	Fough a LISN 1 (Line to a $50\Omega/50\mu H + 5\Omega$ linear of the EUT were bonded to the ground being measured. A multiple power cables to not exceeded. To table 0.8m above the rangement, the EUT was derence plane. The rear of reference plane. The e horizontal ground om the boundary of the explane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. We positions of	
Shielding Room EUT AC Mains LISN1	AE LISN2 A	Test Receiver	
	ANSI C63.10: 2013 150kHz to 30MHz Frequency range (MHz) 0.15-0.5 0.5-5 5-30 * Decreases with the logarithment or com. 2) The EUT was connected to lampedance Stabilization Now impedance. The power case connected to a second reference plane in the same way as multiple socket outlet stripmant of the EUT was placed on the horizontal ground reference plane. A placed on the horizontal ground reference plane. A placed on the horizontal ground reference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated end to should be the control of the interpretation of the i	ANSI C63.10: 2013 150kHz to 30MHz Frequency range (MHz) Ouasi-peak 0.15-0.5 66 to 56* 0.5-5 56 5-30 60 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was room. 2) The EUT was connected to AC power source thre Impedance Stabilization Network) which provides impedance. The power cables of all other units of connected to a second LISN 2, which was reference plane in the same way as the LISN 1 for the unit multiple socket outlet strip was used to connect a single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was r single LISN provided the rating of the LISN was reference plane. And for floor-standing ar placed on the horizontal ground reference plane, and the test was performed with a vertical ground reference plane. The LISN 1 was placed 0.8 m from the vertical ground reference plane. The LISN 1 was placed 0.8 m from the test and bonded to a ground reference mounted on top of the ground reference plane. The between the closest points of the LISN 1 and the the EUT and associated equipment was at least the equipment and all of the interface cables must be ANSI C63.10: 2013 on conducted measurement.	

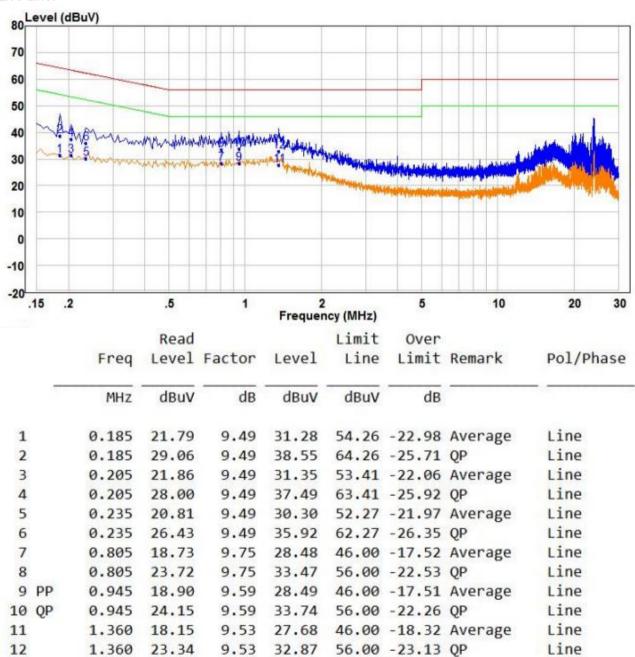


Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass



Measurement Data

Live Line:

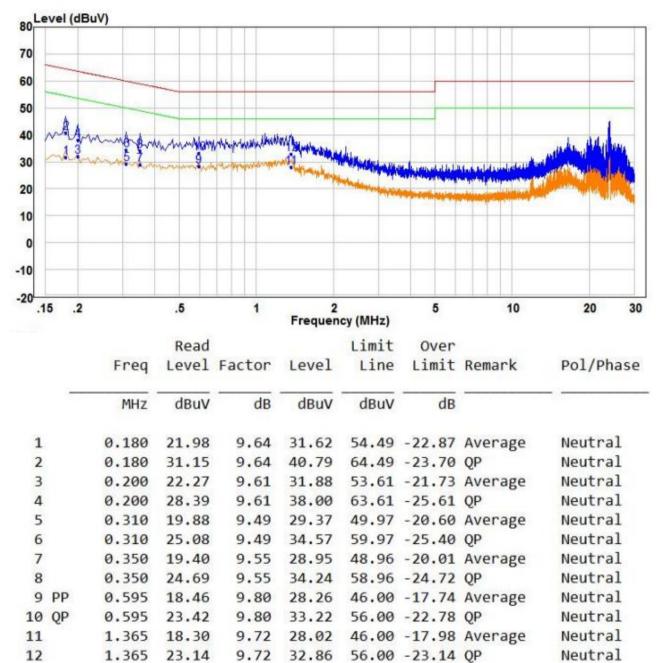


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral Line:



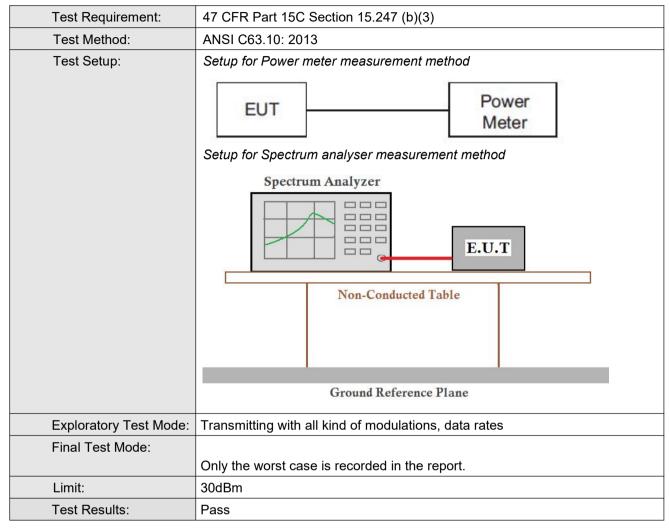
Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Report No.: CQASZ20240801777E-01

5.3 Conducted Peak & Average Output Power





Report No.: CQASZ20240801777E-01

Test Result

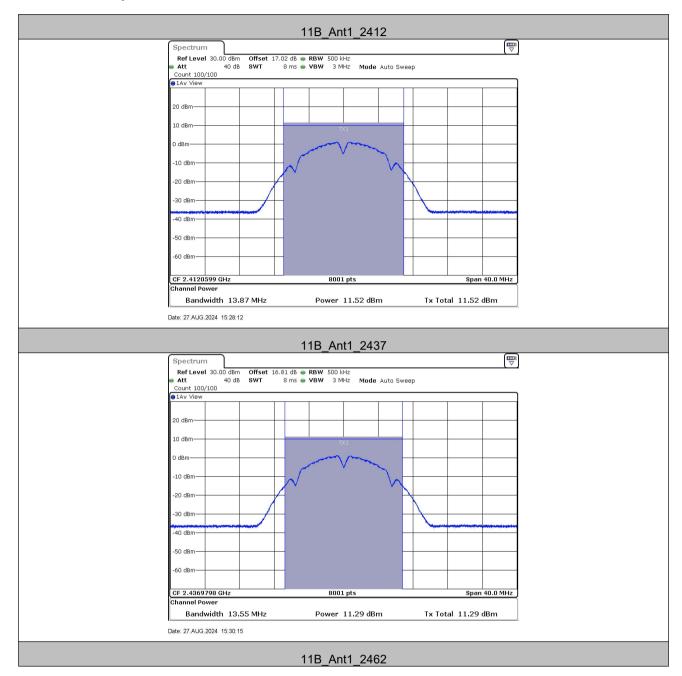
Test Mode	Frequency[MHz	Result [dBm]	Limit [dBm]	Verdict
	2412	11.52	≤30.00	PASS
11B	2437	11.29	≤30.00	PASS
	2462	11.40	≤30.00	PASS
	2412	11.19	≤30.00	PASS
11G	2437	11.05	≤30.00	PASS
	2462	11.24	≤30.00	PASS
11N20SISO	2412	11.27	≤30.00	PASS
	2437	11.33	≤30.00	PASS
	2462	11.56	≤30.00	PASS
11N40SISO	2422	9.91	≤30.00	PASS
	2437	9.67	≤30.00	PASS
	2452	10.47	≤30.00	PASS

Note:

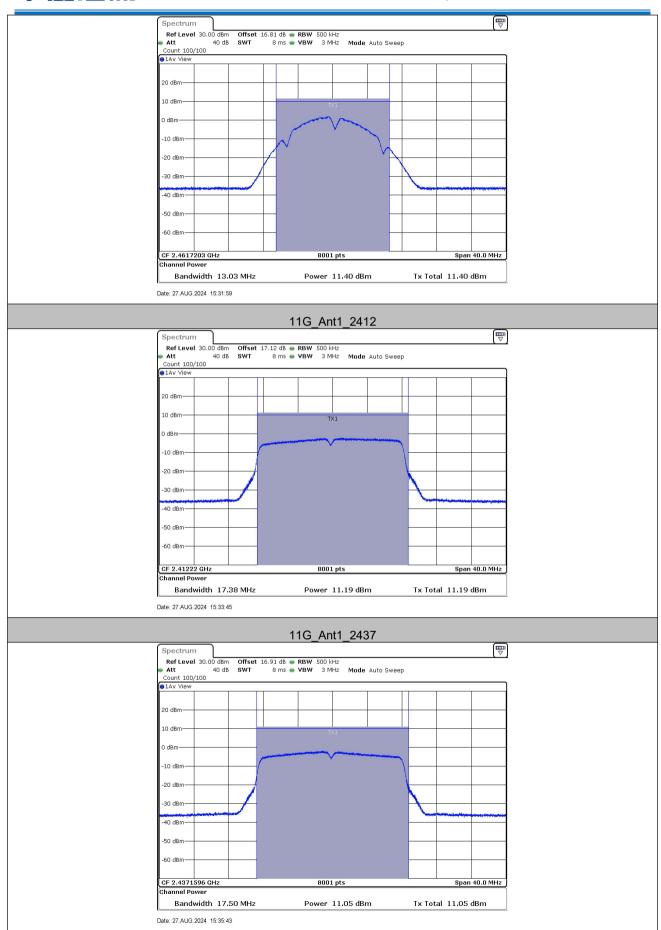
When Duty cycle >98%, D.C.F is not required.



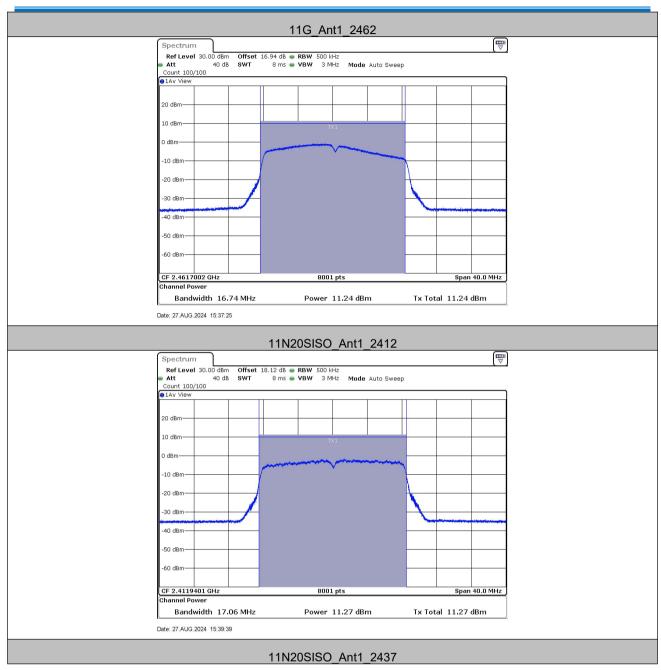
Test Graphs



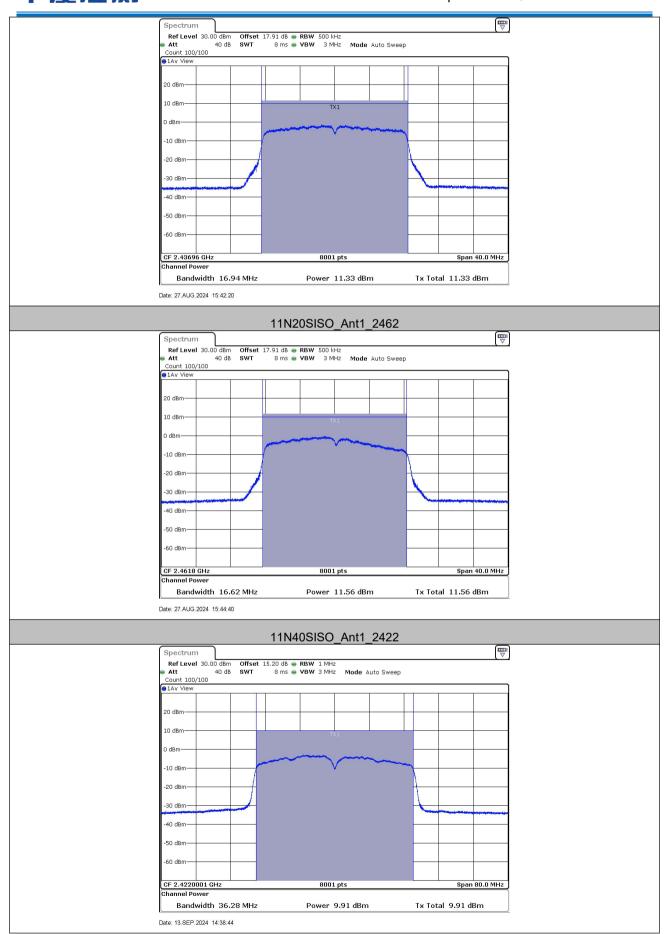




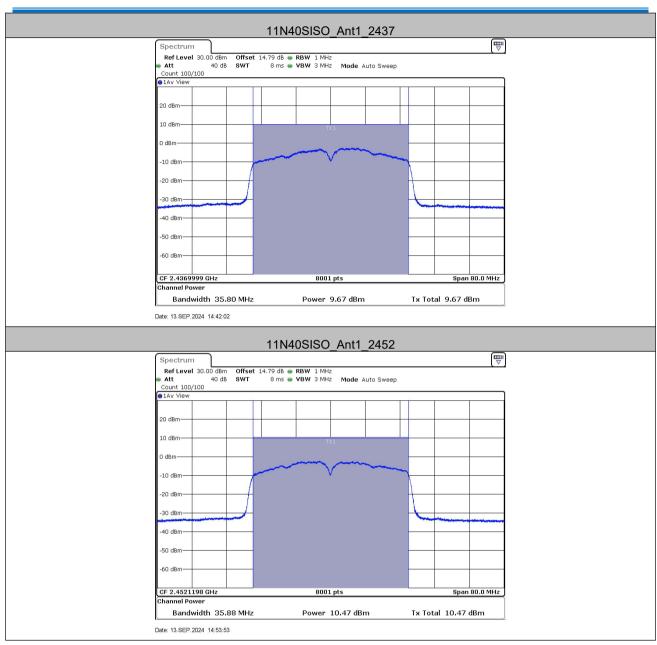








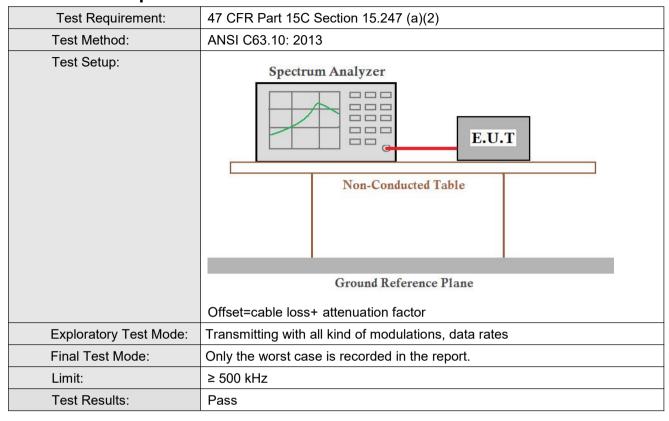








5.4 6dB Occupied Bandwidth





Report No.: CQASZ20240801777E-01

Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	Limit[MHz]	Verdict
		2412	8.56	0.5	PASS
11B	Ant1	2437	8.04	0.5	PASS
		2462	7.52	0.5	PASS
		2412	15.72	0.5	PASS
11G	Ant1	2437	15.56	0.5	PASS
		2462	12.56	0.5	PASS
		2412	16.36	0.5	PASS
11N20SISO	Ant1	2437	16.40	0.5	PASS
		2462	12.84	0.5	PASS
		2422	35.04	0.5	PASS
11N40SISO	Ant1	2437	28.88	0.5	PASS
		2452	33.84	0.5	PASS



Test Graphs

