

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

Report Template Version: V05

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

Website: www.cga-cert.com

Report Template Revision Date: 2021-11-03

EST REPORT

Report No.: CQASZ20220801509E-03 THINKCAR TECH CO., LTD. **Applicant:**

2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang **Address of Applicant:**

District, Shenzhen

Equipment Under Test (EUT):

Modular Comprehensive Automotive Diagnostic Tool **Product:**

TKT16, THINKTOOL Euro Expert, THINKTOOL Platinum S12 Model No.:

TKT16 **Teat Model No.:**

THINKCAR, XHINKCAR, MUCAR **Brand Name:**

FCC ID: 2AUARTKTOOL12

Standards: 47 CFR Part 15, Subpart C

ANSI C63.10: 2013

KDB 558074 D01 15.247 Meas Guidance v05r02 KDB 662911 D01 Multiple Transmitter Output v02r01

Date of Receipt: 2022-08-31

2022-08-31 to 2022-09-20 Date of Test:

Date of Issue: 2022-12-08 Test Result: PASS*

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

Tested By:

Reviewed By:

(Timo Lei)

Approved By:



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.: CQASZ20220801509E-03

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220801509E-03	Rev.01	Initial report	2022-12-08





2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
Conducted Peak & Average Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013 PASS	
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013	PASS



3 Contents

	Page
1 VERSION	2
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	5
4.2 GENERAL DESCRIPTION OF EUT	
4.3 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD	5
4.4 TEST ENVIRONMENT AND MODE	
4.5 DESCRIPTION OF SUPPORT UNITS	12
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	_
4.11 OTHER INFORMATION REQUESTED BY THE CUSTOMER4.12 EQUIPMENTS LIST	_
5 TEST RESULTS AND MEASUREMENT DATA	15
5.1 ANTENNA REQUIREMENT	15
5.2 CONDUCTED EMISSIONS	16
5.3 CONDUCTED PEAK & AVERAGE OUTPUT POWER	20
5.4 6DB OCCUPY BANDWIDTH	
5.5 POWER SPECTRAL DENSITY	
5.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
5.7 RF CONDUCTED SPURIOUS EMISSIONS	
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	
6 PHOTOGRAPHS - EUT TEST SETUP	88
6.1 RADIATED EMISSION	88
6.2 CONDUCTED EMISSION	89
7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	90



Report No.: CQASZ20220801509E-03

4 General Information

4.1 Client Information

Applicant:	THINKCAR TECH CO., LTD.
Address of Applicant:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Manufacturer:	THINKCAR TECH CO., LTD.
Address of Manufacturer:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen
Factory:	THINKCAR TECH CO., LTD.
Address of Factory:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian, Longgang District, Shenzhen

4.2 General Description of EUT

Product Name:	Modular Comprehensive Automotive Diagnostic Tool
Model No.:	TKT16, THINKTOOL Euro Expert, THINKTOOL Platinum S12
Test Model No.:	TKT16
Trade Mark:	THINKCAR, XHINKCAR, MUCAR
Power Supply:	Li-ion battery: DC 7.6V 6300mAh, Charge by DC 5V for adapter
EUT Supports Radios	BT: 2402-2480MHz
application:	2.4GHz: Wi-Fi: 802.11b/g/n(HT20): 2412MHz~2462MHz;
	802.11n(HT40): 2422MHz~2452MHz
	5GHz: Wi-Fi: U-NII-1: 5.15-5.25GHz; U-NII-3: 5.725-5.850GHz

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			
Software Version:	V1.4 20220930-1448			
Hardware Version:	BSK-Y19-V1A			
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			
D 1 1 T				
Product Type:	☐ Mobile ☐ Portable ☐ Fix Location			
Test Software of EUT:	android system			
Antenna Type:	FPC antenna			



Antenna Gain: 3.72dBi	Antenna Gain:	3.72dBi
-----------------------	---------------	---------



Report No.: CQASZ20220801509E-03

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	12MHz	10)	2457MHz
2	24	117MHz	5	2432MHz	8	244	17MHz	11		2462MHz
3	24	122MHz	6	2437MHz	9	245	52MHz			
Operation Frequency each of channel(802.11n HT40)										
Channe	I	Frequ	ency	Channel	Frequen	су	Channel Frequenc		- requency	
3		24221	MHz	6	2437MF	łz	9 2452MHz		2452MHz	
4		24271	MHz	7	2442MF	łz				
5		24321	MHz	8	2447MH	lz				

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):

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.

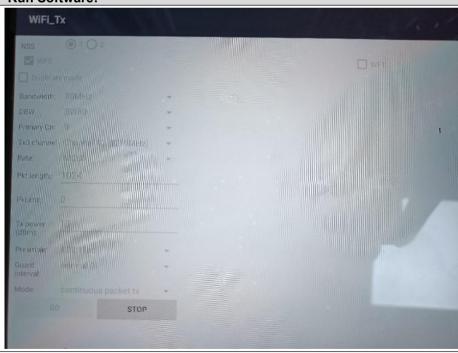




4.4 Test Environment and Mode

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 test (RF Conducted test room):					
Temperature:	25.5 °C				
Humidity:	52 % RH				
Atmospheric Pressure:	1009 mbar				
Test mode:	Test mode:				
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.				

Run Software:





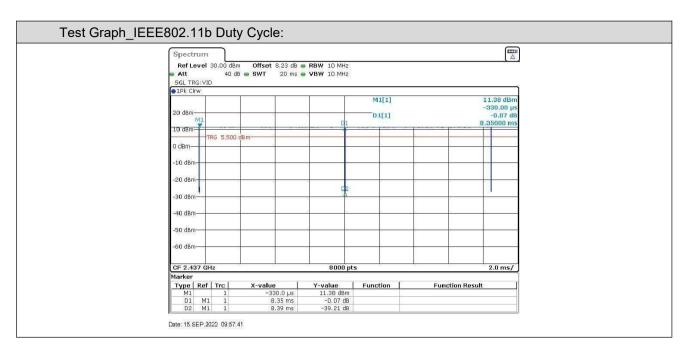
Report No.: CQASZ20220801509E-03

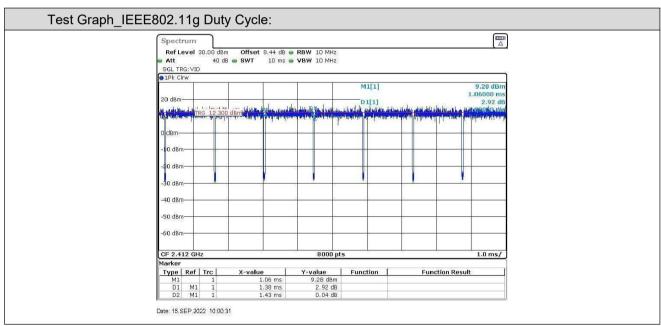
Operated Mode for Worst Duty Cycle:					
Test Mode	Duty Cycle(%)	Average correction factor(dB)			
IEEE802.11b	99.52	0.02			
IEEE802.11g	96.50	0.15			
IEEE802.11n (HT20)	96.27	0.17			
IEEE802.11n (HT40)	92.75	0.33			

Remark:

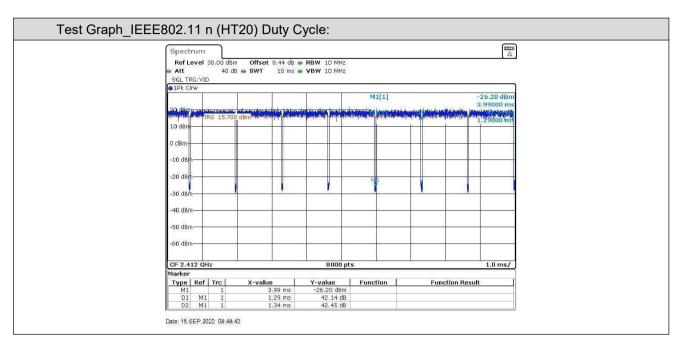
- 1) Duty cycle= On Time/ Period;
- 2) Duty Cycle factor = 10 * log(1/ Duty cycle);

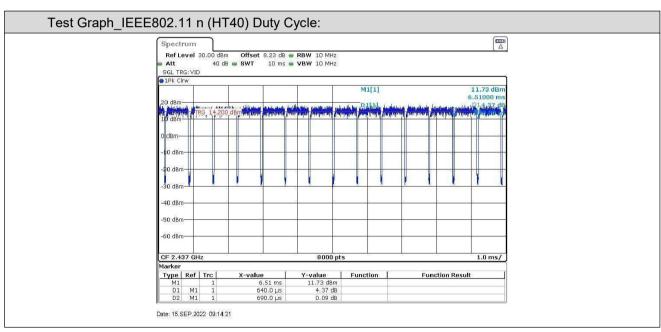














Report No.: CQASZ20220801509E-03

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

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

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

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU26	CQA-038	2022/9/9	2023/9/8
Spectrum analyzer	R&S	FSU40	CQA-075	2022/9/9	2023/9/8
Preamplifier	MITEQ	AFS4-00010300-18- 10P-4	CQA-035	2022/9/9	2023/9/8
Preamplifier	MITEQ	AMF-6D-02001800- 29-20P	CQA-036	2022/9/9	2023/9/8
Preamplifier	EMCI	EMC184055SE	CQA-089	2022/9/9	2023/9/8
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	2022/9/9	2023/9/8
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2022/9/9	2023/9/8
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2022/9/9	2023/9/8
N1918A Power Analysis Manager Power Panel	Agilent	N1918A	CQA-074	2022/9/9	2023/9/8
Power meter	R&S	NRVD	CQA-029	2022/9/9	2023/9/8
Power divider	MIDWEST	PWD-2533-02-SMA- 79	CQA-067	2022/9/9	2023/9/8
EMI Test Receiver	R&S	ESR7	CQA-005	2022/9/9	2023/9/8
LISN	R&S	ENV216	CQA-003	2022/9/9	2023/9/8
Coaxial cable	CQA	N/A	CQA-C009	2022/9/9	2023/9/8
DC power	KEYSIGHT	E3631A	CQA-028	2022/9/9	2023/9/8

Test software:

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



Report No.: CQASZ20220801509E-03

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

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.

EUT Antenna:



The antenna is FPC antenna. Ant 1: 3.72dBi



Report No.: CQASZ20220801509E-03

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.2	207	
Test Method:	ANSI C63.10: 2013		
Test	150kHz to 30MHz		
Frequency Range:	130KI IZ to 30WI IZ		
Limit:	- (141)	Limit (d	BuV)
	Frequency range (MHz)	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.	
Test Procedure:	 The mains terminal disturb room. The EUT was connected to Impedance Stabilization Nimpedance. The power calconnected to a second reference plane in the second measured. A multiple social power cables to a single exceeded. The tabletop EUT was play ground reference plane. An placed on the horizontal ground reference plane. An exercise ground reference plane. The LISN unit under test and bonded mounted on top of the ground between the closest points the EUT and associated exercise plane. The LISN unit under to find the maximule equipment and all of the in according to ANSI C63.10: 	o AC power source throetwork) which provides bles of all other units of LISN 2, which was same way as the LIS oket outlet strip was u LISN provided the rational aced upon a non-metal and for floor-standing arround reference plane, the a vertical ground reference plane was bonded to the late of a ground reference plane. The of the LISN 1 and the quipment was at least 0 arm emission, the relative terface cables must be	rugh a LISN 1 (Line a 50Ω/50μH + 5Ω linear the EUT were bonded to the ground N 1 for the unit being sed to connect multiple ng of the LISN was not lic table 0.8m above the rangement, the EUT was reference plane. The rear the horizontal ground from the boundary of the plane for LISNs his distance was a EUT. All other units of 0.8 m from the LISN 2. The positions of changed
Test Setup:	Shielding Room EUT AC Mains LISN1	AE LISN2 → AC	Test Receiver
Exploratory Test Mode:	Transmitting with all kind of	modulations, data rate	s at lowest, middle and
•			·

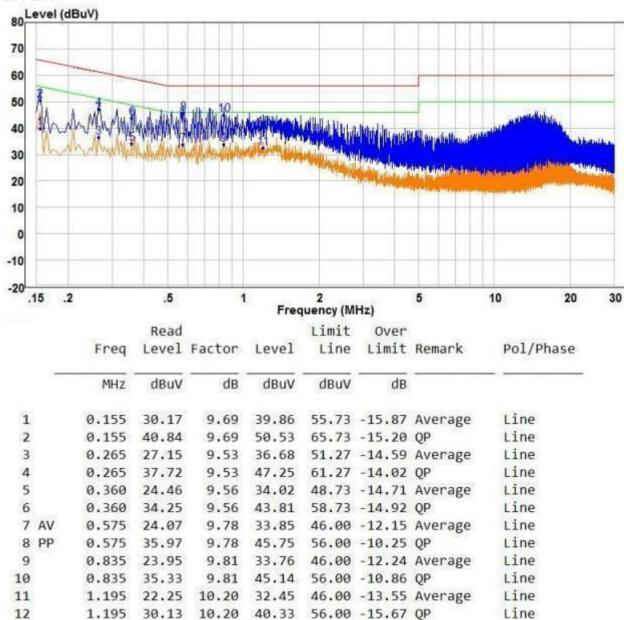


	highest channel.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at middle channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC120V/60Hz
Test Results:	Pass



Measurement Data

Live Line:

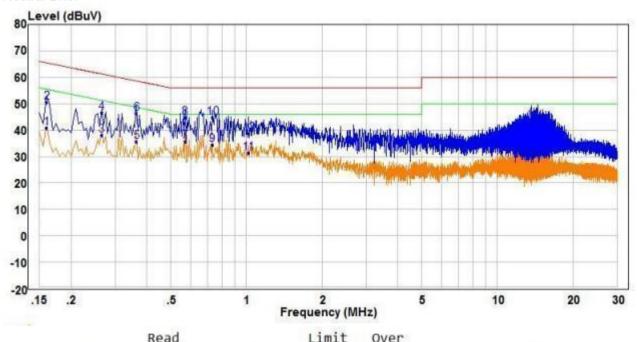


Remark:

- 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:



		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
		MHZ	dBuV	dB	dBuV	dBuV	dB	-	
1		0.160	31.06	9.68	40.74	55.46	-14.72	Average	Neutral
2		0.160	40.80	9.68	50.48	65.46	-14.98	QP	Neutral
3		0.265	28.44	9.52	37.96	51.27	-13.31	Average	Neutral
4		0.265	37.21	9.52	46.73	61.27	-14.54	QP	Neutral
5		0.365	26.08	9.56	35.64	48.61	-12.97	Average	Neutral
6		0.365	36.59	9.56	46.15	58.61	-12.46	QP	Neutral
7	PP	0.570	25.75	9.77	35.52	46.00	-10.48	Average	Neutral
8		0.570	34.94	9.77	44.71	56.00	-11.29	QP	Neutral
9		0.730	24.53	9.88	34.41	46.00	-11.59	Average	Neutral
10	QP	0.730	34.94	9.88	44.82	56.00	-11.18	QP	Neutral
11		1.020	21.81	9.70	31.51	46.00	-14.49	Average	Neutral
12		1.020	28.91	9.70	38.61	56.00	-17.39	QP	Neutral

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.: CQASZ20220801509E-03

5.3 Conducted Peak & Average Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)			
Test Method:	ANSI C63.10: 2013			
Test Setup:	EUT Power Meter			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates			
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.			
Limit:	30dBm			
Test Results:	Pass			



Report No.: CQASZ20220801509E-03

Measurement Data

		802.11b mode		
Test channel	Measured Average	Average Output Power	Limit (dBm)	Result
	Output Power (dBm)	(dBm)		
Lowest	8.02	8.04	30.00	Pass
Middle	8.88	8.9	30.00	Pass
Highest	9.02	9.04	30.00	Pass
	_	802.11g mode		
Test channel	Measured Average	Average Output Power	Limit (dBm)	Result
	Output Power (dBm)	(dBm)		
Lowest	7.24	7.39	30.00	Pass
Middle	7.85	8	30.00	Pass
Highest	7.99	8.14	30.00	Pass
	802	2.11n(HT20)mode		
Test channel	Measured Average	Average Output Power	Limit (dBm)	Result
	Output Power (dBm)	(dBm)		
Lowest	7.87	8.04	30.00	Pass
Middle	8.57	8.74	30.00	Pass
Highest	8.68	8.85	30.00	Pass
	802	2.11n(HT40)mode		
Test channel	Measured Average	Average Output Power	Limit (dBm)	Result
	Output Power (dBm)	(dBm)		
Lowest	8.24	8.57	30.00	Pass
Middle	8.67	9	30.00	Pass
Highest	8.78	9.11	30.00	Pass

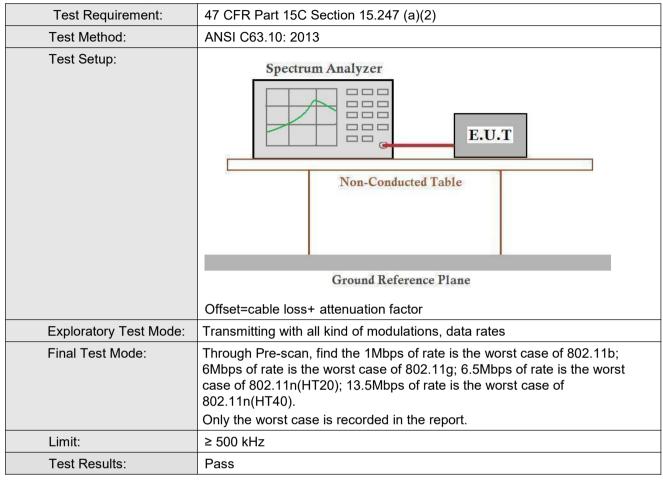
Remark:

- 1. Average Output Power was for reference only
- 2. Average Output Power had added duty cycle factor



Report No.: CQASZ20220801509E-03

5.4 6dB Occupy Bandwidth





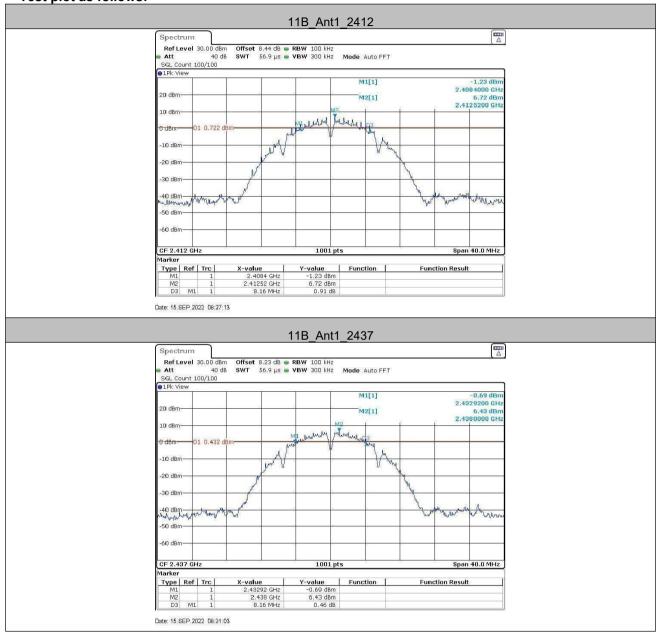
Report No.: CQASZ20220801509E-03

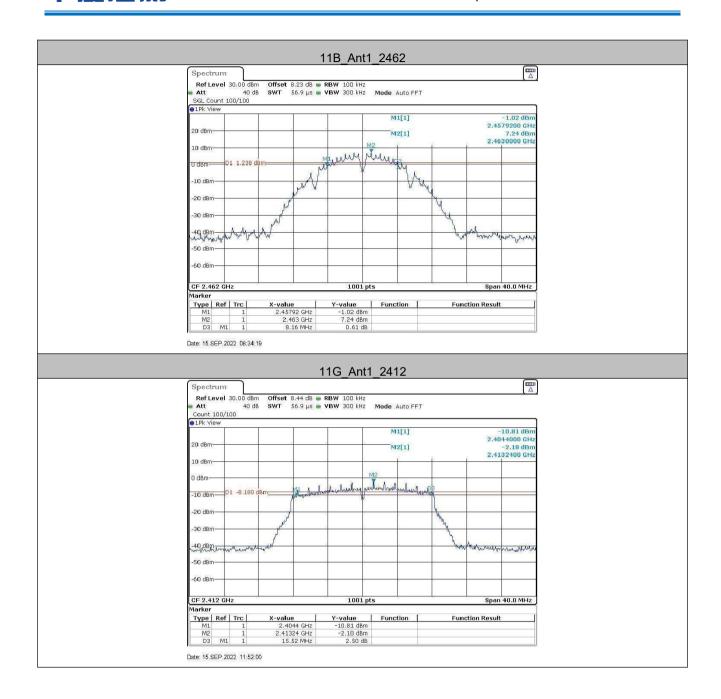
Measurement Data

	802.11	lb mode		
Test channel	6dB Occupy Bandwidth (MHz)	99% OBW [MHz]	Limit (kHz)	Result
Lowest	8.160	12.987	≥500	Pass
Middle	8.160	12.987	≥500	Pass
Highest	8.160	12.987	≥500	Pass
	802.11	lg mode		
Test channel	6dB Occupy Bandwidth (MHz)	99% OBW [MHz]	Limit (kHz)	Result
Lowest	15.520	16.743	≥500	Pass
Middle	16.160	16.983	≥500	Pass
Highest	16.400	16.823	≥500	Pass
	802.11n(H	HT20) mode		
Test channel	6dB Occupy Bandwidth (MHz)	99% OBW [MHz]	Limit (kHz)	Result
Lowest	17.280	17.942	≥500	Pass
Middle	17.640	18.062	≥500	Pass
Highest	17.400	18.262	≥500	Pass
	802.11n(l	HT40)mode		
Test channel	6dB Occupy Bandwidth (MHz)	99% OBW [MHz]	Limit (kHz)	Result
Lowest	34.880	36.6	≥500	Pass
Middle	30.160	36.36	≥500	Pass
		36.04		

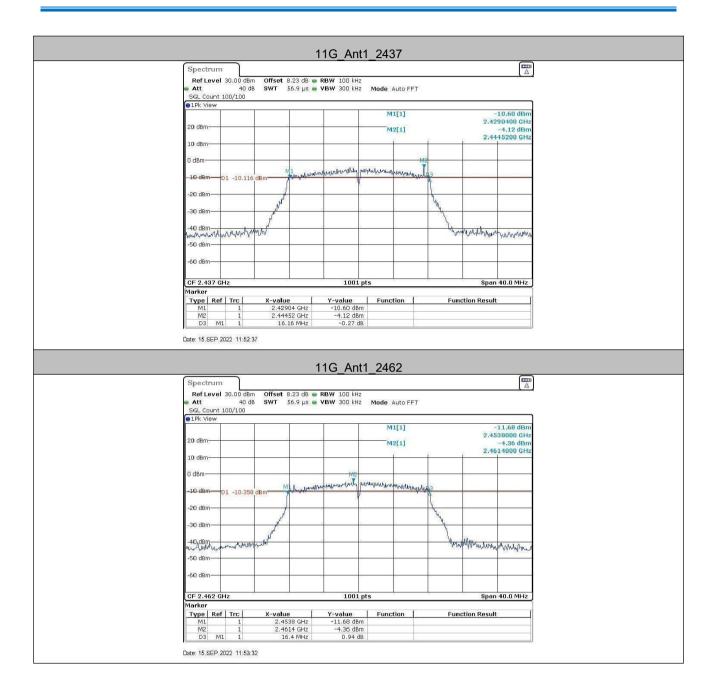


Test plot as follows:

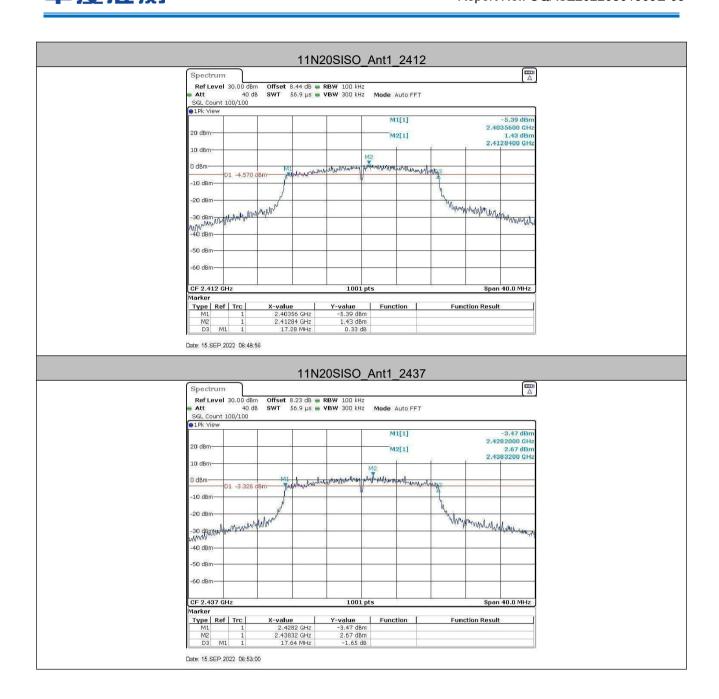




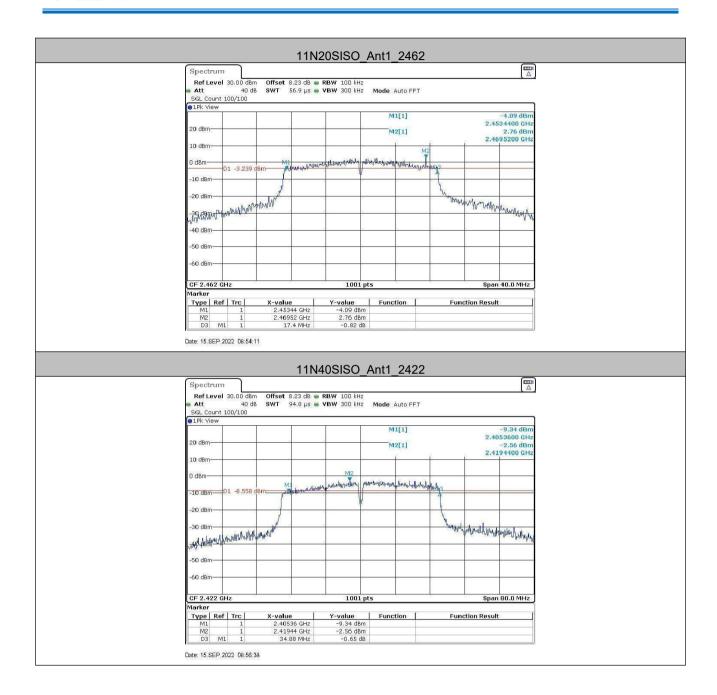




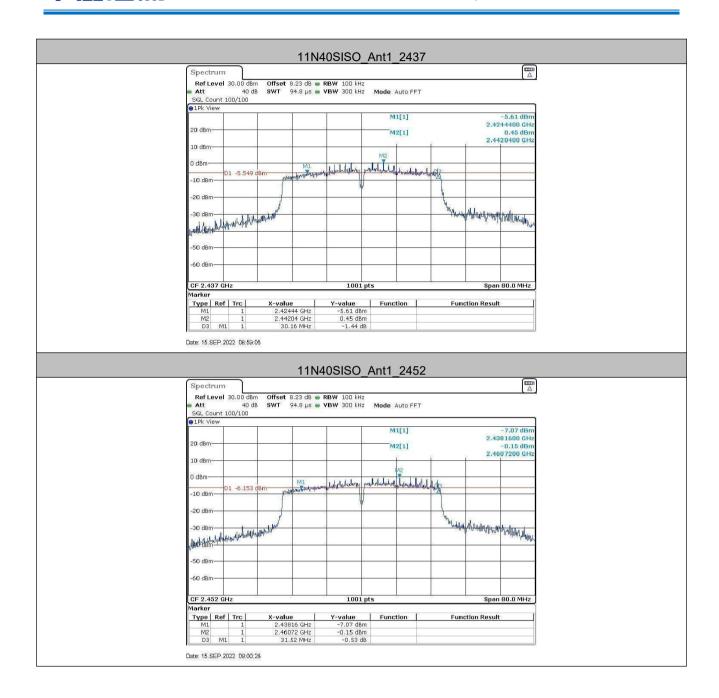






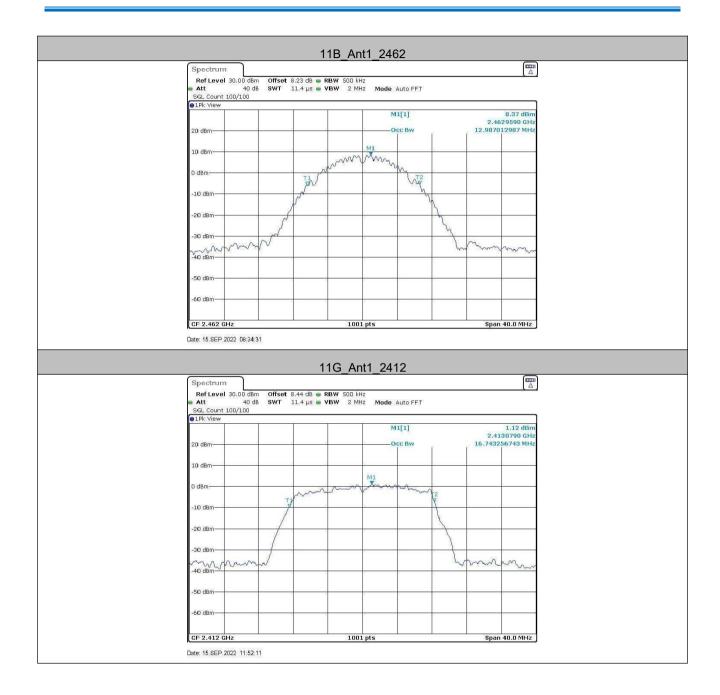




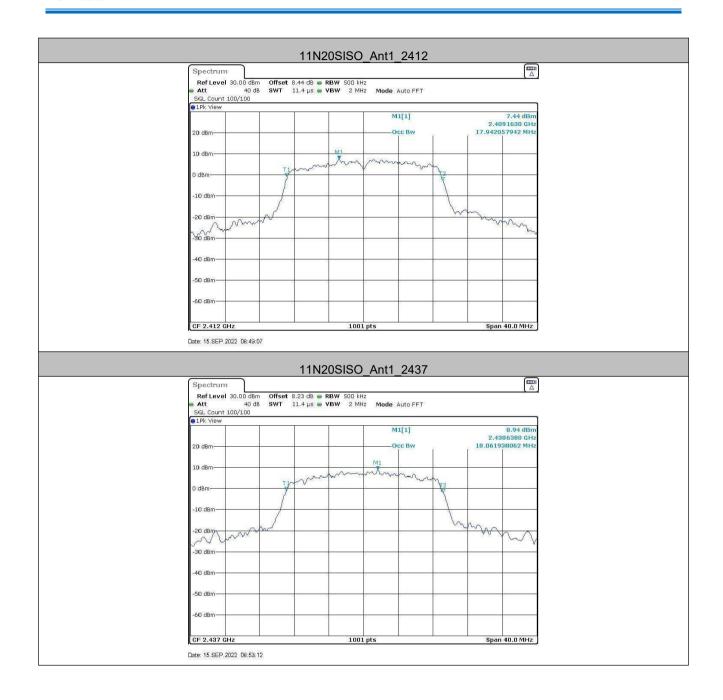














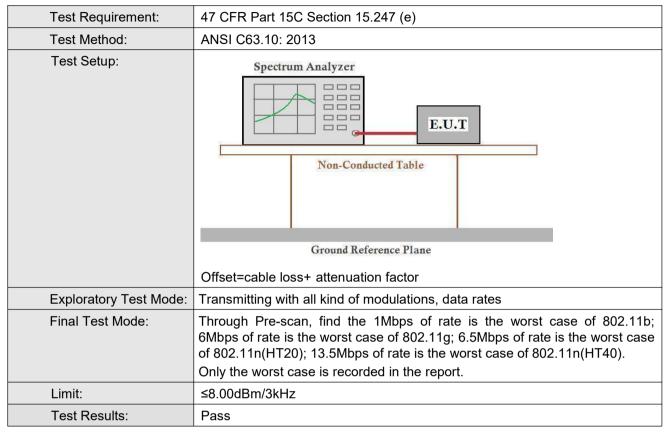






Report No.: CQASZ20220801509E-03

5.5 Power Spectral Density





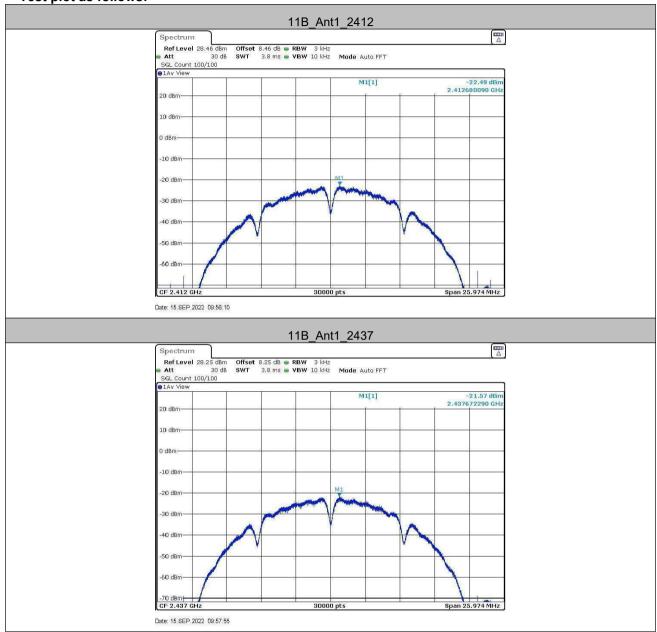
Report No.: CQASZ20220801509E-03

Measurement Data

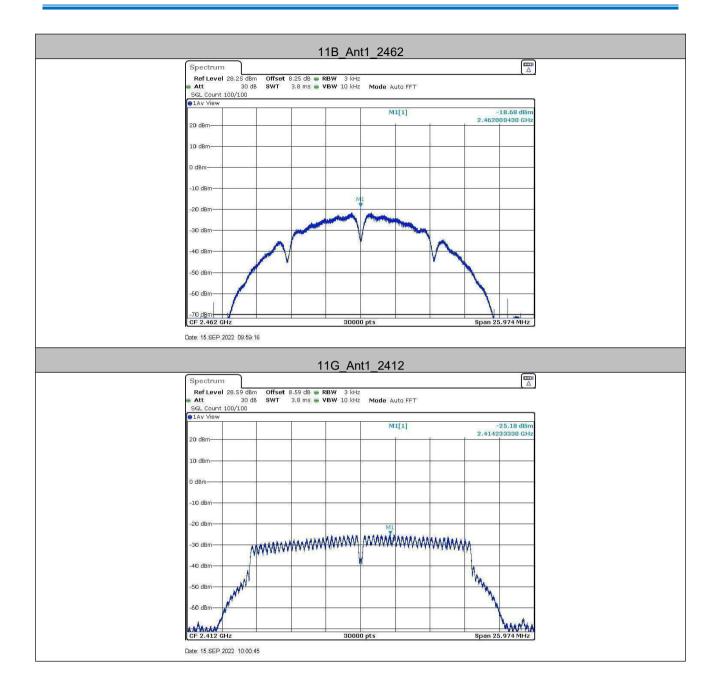
802.11b mode									
Test channel	Power Spectral Density (dBm/3kHz)	Result							
Lowest	-22.49	≤8.00	Pass						
Middle	-21.57	≤8.00	Pass						
Highest	-18.68	≤8.00	Pass						
802.11g mode									
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result						
Lowest	-25.18	≤8.00	Pass						
Middle	-24.26	≤8.00	Pass						
Highest	-24.17	≤8.00	Pass						
802.11n(HT20) mode									
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result						
Lowest	-24.86	≤8.00	Pass						
Middle	-24.3	≤8.00	Pass						
Highest	-23.98	≤8.00	Pass						
	802.11n(HT40) mode								
Test channel	Power Spectral Density (dBm/3kHz) Limit (dBm/3kHz		Result						
Lowest	-25.41	≤8.00	Pass						
Middle	-24.6	≤8.00	Pass						
Highest	-25.15	≤8.00	Pass						



Test plot as follows:



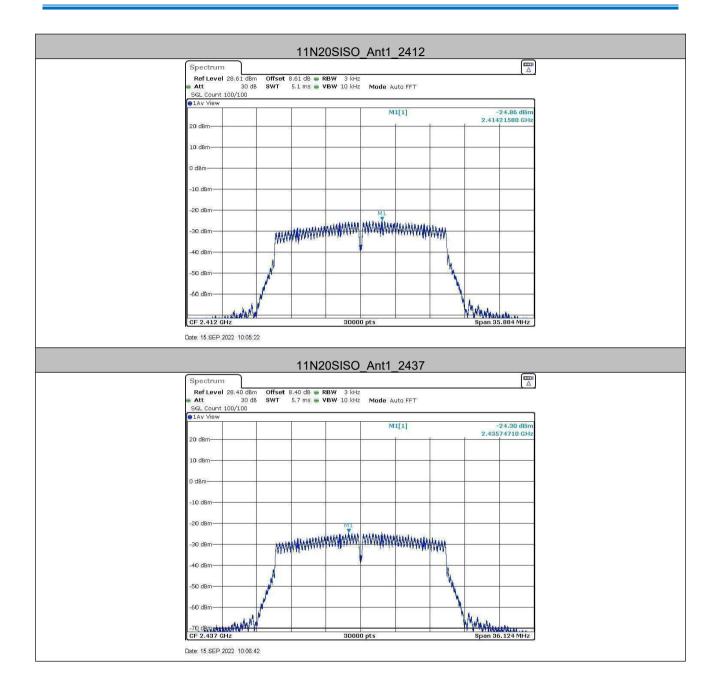




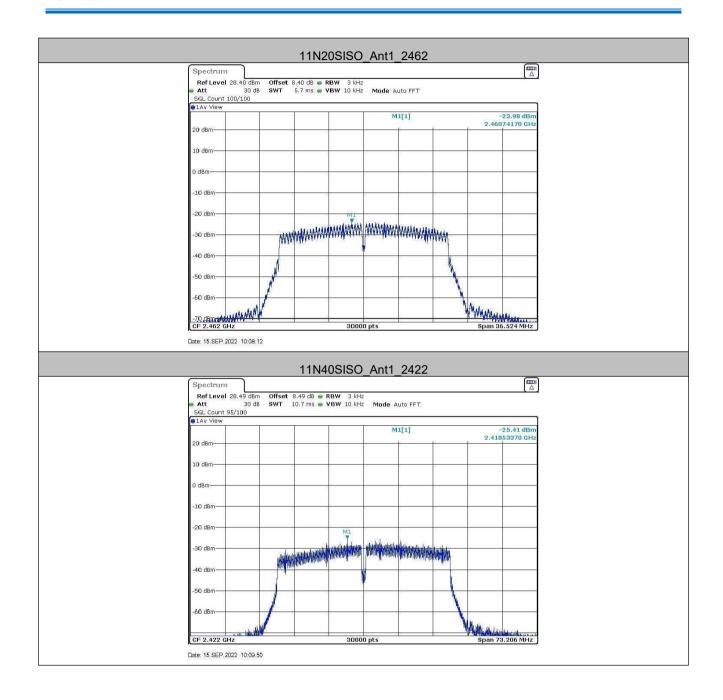




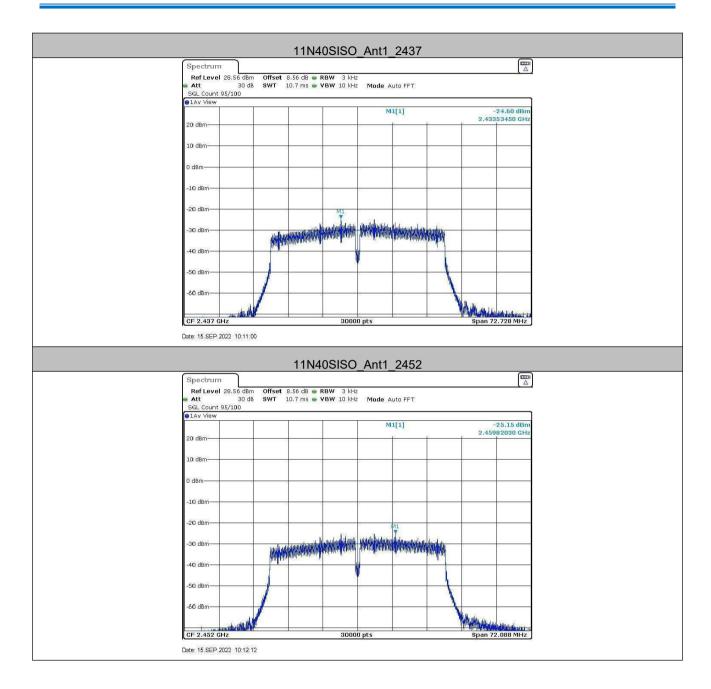








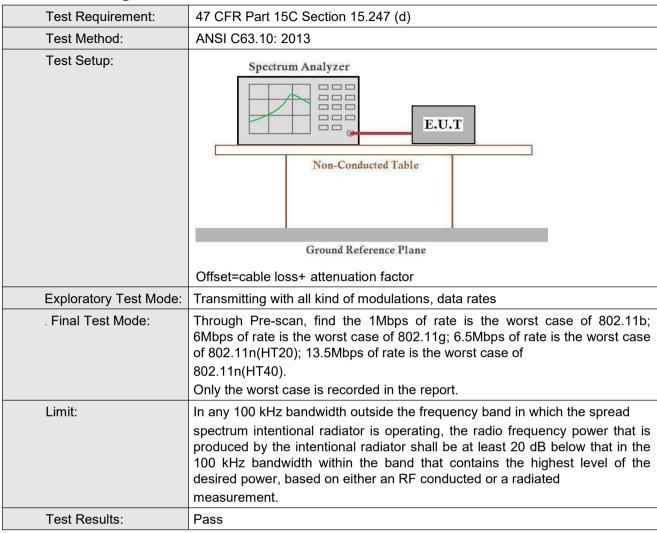






Report No.: CQASZ20220801509E-03

5.6 Band-edge for RF Conducted Emissions





Report No.: CQASZ20220801509E-03

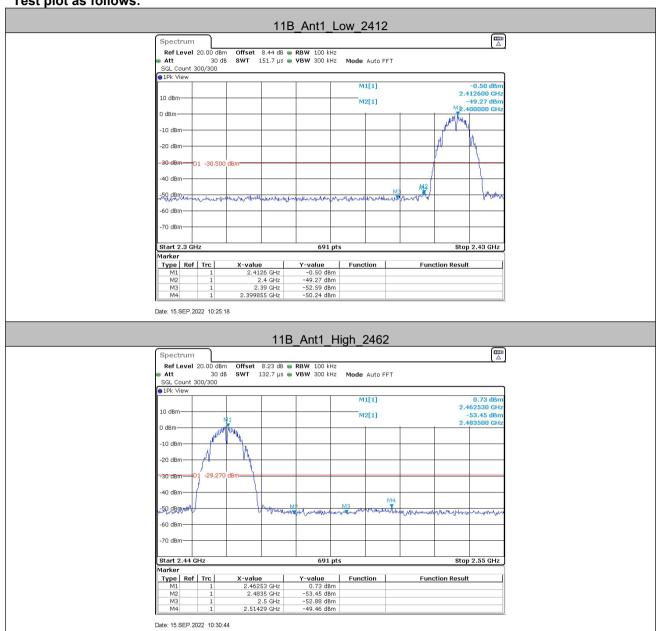
Test Data:

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	-0.50	-50.24	≤-30.5	PASS
		High	2462	0.73	-49.46	≤-29.27	PASS
11G	Ant1	Low	2412	-2.76	-43.95	≤-32.76	PASS
		High	2462	-4.32	-48.98	≤-34.32	PASS
11N20SISO	Ant1	Low	2412	-2.42	-44.66	≤-32.42	PASS
		High	2462	-2.87	-48.35	≤-32.87	PASS
11N40SISO	Ant1	Low	2422	-4.36	-44	≤-34.36	PASS
		High	2452	-4.99	-40	≤-34.99	PASS



Report No.: CQASZ20220801509E-03

Test plot as follows:

















Report No.: CQASZ20220801509E-03

5.7 RF Conducted Spurious Emissions

