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Report Template Version: V05 Report Template Revision Date: 2021-11-03

Test Report

Report No. :	CQASZ20240801757E-01		
Applicant:	Icarsoft Technology Inc.		
Address of Applicant:	1629 K St. Suite 300 N.W.Washington D.C., 20006 United States.		
Equipment Under Test (E	EUT):		
Product:	Car Diagnostic Tool		
Model No.:	CR Eagle		
Test Model No.:	CR Eagle		
Brand Name:	iCarsoft		
FCC ID:	2AWD8-CREAGLE		
Standards:	47 CFR Part 15, Subpart C		
	KDB558074 D01 15.247 Meas Guidance v05r02		
	ANSI C63.10:2013		
Date of Receipt:	2024-08-19		
Date of Test:	2024-08-19 to 2024-10-17		
Date of Issue:	2024-10-17		
Test Result :	PASS*		

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

Tested By: _____ lewis 2h0u (Lewis Zhou)

Timo Lej'

Reviewed By: _

(Timo Lei)

Approved By: _____A Lex

(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.



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20240801757E-01	Rev.01	Initial report	2024-10-17



2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15.203	/	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10-2013	PASS
Conducted Peak Output Power	47 CFR Part 15.247	ANSI C63.10-2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Carrier Frequencies Separation	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Hopping Channel Number	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Dwell Time	47 CFR Part 15.247	ANSI C63.10-2013	PASS
Pseudorandom Frequency Hopping Sequence	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



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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:	Car Diagnostic Tool		
Model No.:	CR Eagle		
Test Model No.:	CR Eagle		
Trade Mark:	iCarsoft		
Software Version:	iMsDiag DiagLib APP:V10.14 iMSDiag System APP:V10.19 System Version:V1.26		
Hardware Version:	F219 U1.1		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	V5.0		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Transfer Rate:	1Mbps/2Mbps/3Mbps		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Product Type:	□ Mobile		
Test Software of EUT:	RF Test		
Antenna Type:	FPC antenna		
Antenna Gain:	5.62dBi		
Power Supply:	Li-ion battery: DC 3.8V 10000mAh, Charge by DC 5V for adapter		
Simultaneous Transmission	☐ Simultaneous TX is supported and evaluated in this report.		
	Simultaneous TX is not supported.		



Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	20	2422MHz	40	2442MHz	60	2462MHz
1	2403MHz	21	2423MHz	41	2443MHz	61	2463MHz
2	2404MHz	22	2424MHz	42	2444MHz	62	2464MHz
3	2405MHz	23	2425MHz	43	2445MHz	63	2465MHz
4	2406MHz	24	2426MHz	44	2446MHz	64	2466MHz
5	2407MHz	25	2427MHz	45	2447MHz	65	2467MHz
6	2408MHz	26	2428MHz	46	2448MHz	66	2468MHz
7	2409MHz	27	2429MHz	47	2449MHz	67	2469MHz
8	2410MHz	28	2430MHz	48	2450MHz	68	2470MHz
9	2411MHz	29	2431MHz	49	2451MHz	69	2471MHz
10	2412MHz	30	2432MHz	50	2452MHz	70	2472MHz
11	2413MHz	31	2433MHz	51	2453MHz	71	2473MHz
12	2414MHz	32	2434MHz	52	2454MHz	72	2474MHz
13	2415MHz	33	2435MHz	53	2455MHz	73	2475MHz
14	2416MHz	34	2436MHz	54	2456MHz	74	2476MHz
15	2417MHz	35	2437MHz	55	2457MHz	75	2477MHz
16	2418MHz	36	2438MHz	56	2458MHz	76	2478MHz
17	2419MHz	37	2439MHz	57	2459MHz	77	2479MHz
18	2420MHz	38	2440MHz	58	2460MHz	78	2480MHz
19	2421MHz	39	2441MHz	59	2461MHz		

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:

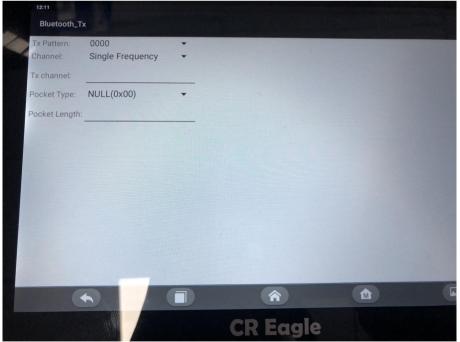
Channel	Frequency
The Lowest channel	2402MHz
The Middle channel	2441MHz
The Highest channel	2480MHz



4.3 Additional Instructions

EUT Test Software Settings:					
Mode:	 Special software is used. Through engineering command into the engineering mode. engineering command: *#*#3646633#*#* 				
EUT Power level:	Class2				
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.					
Mode	Channel	Frequency(MHz)			
	СН0	2402			
DH1/DH3/DH5	СНЗ9	2441			
	CH78	2480			
	СНО	2402			
2DH1/2DH3/2DH5	СНЗ9	2441			
	CH78	2480			
	СНО	2402			
3DH1/3DH3/3DH5	СНЗ9	2441			
	CH78	2480			

Run Software:





4.4 Test Environment

Operating Environment:			
Temperature:	25 °C		
Humidity:	54% RH		
Atmospheric Pressure:	1009mbar		
Test Mode:	Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.		

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.	Remark	Supplied
Adapter	MI	1	1	CQA



4.6 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.** 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.

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

Hereafter the best measurement capability for CQA laboratory is reported:



4.7 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 District, Shenzhen, China

4.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: **IC Registration No.: 22984-1**

The 3m Semi-anechoic chamber of Shenzhen Huaxia Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

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

CNAS (No. CNAS L5785)

CNAS has accredited Shenzhen Huaxia Testing Technology Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

• 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

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



4.11 Equipment List

			1		
		MULTIN	Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
		F0D7	004 005	2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2024/09/02	2025/09/01
	D.O.	501100	004.000	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU26	CQA-038	2024/09/02	2025/09/01
0		501140	004.075	2023/09/08	2024/09/07
Spectrum analyzer	R&S	FSU40	CQA-075	2024/09/02	2025/09/01
Dreemalifier		AFS4-00010300-18-	COA 025	2023/09/08	2024/09/07
Preamplifier	MITEQ	10P-4	CQA-035	2024/09/02	2025/09/01
		AMF-6D-02001800-		2023/09/08	2024/09/07
Preamplifier	MITEQ	29-20P	CQA-036	2024/09/02	2025/09/01
				2023/09/08	2024/09/07
Preamplifier	EMCI	EMC184055SE	CQA-089	2024/09/02	2025/09/01
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2023/9/8	2026/9/7
Bilog Antenna	R&S	HL562	CQA-011	2023/11/01	2026/10/31
Horn Antenna	R&S	HF906	CQA-012	2023/11/01	2026/10/31
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2023/9/7	2026/9/6
Coaxial Cable				2023/09/08	2024/09/07
(Above 1GHz)	CQA	N/A	C007	2024/09/02	2025/09/01
				0000/00/00	0004/00/07
Coaxial Cable	<u> </u>	N/A	0010	2023/09/08	2024/09/07
(Below 1GHz)	CQA	IN/A	C013	2024/09/02	2025/09/01
RF	004		004.070	2023/09/08	2024/09/07
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2024/09/02	2025/09/01
	004		004 000	2023/09/08	2024/09/07
Antenna Connector	CQA	RFC-01	CQA-080	2024/09/02	2025/09/01
Dewer Concer			004.20	2023/09/08	2024/09/07
Power Sensor	KEYSIGHT	U2021XA	CQA-30	2024/09/02	2025/09/01
N1918A Power Analysis Manager	Agilant	N1918A	CQA-074	2023/09/08	2024/09/07
Power Panel	Agilent	IN 1916A	CQA-074	2023/09/08	2024/09/07 2025/09/01
				2024/09/02	2023/09/01
Power meter	R&S	NRVD	CQA-029	2023/09/08	2024/09/07 2025/09/01
	Πασ		CQA-029		
	NUDWEOT	PWD-2533-02-SMA-	004 007	2023/09/08	2024/09/07
Power divider	MIDWEST	79	CQA-067	2024/09/02	2025/09/01
				2023/09/08	2024/09/07
EMI Test Receiver	R&S	ESR7	CQA-005	2024/09/02	2025/09/01
				2023/09/08	2024/09/07
LISN	R&S	ENV216	CQA-003	2024/09/02	2025/09/01
				2023/09/08	2024/09/07
Coaxial cable	CQA	N/A	CQA-C009	2024/09/02	2025/09/01
				2023/09/08	2024/09/07
DC power	KEYSIGHT	E3631A	CQA-028	2024/09/02	2025/09/01

Note:

The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



5 Test results and Measurement Data

5.1 Antenna Requirement

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

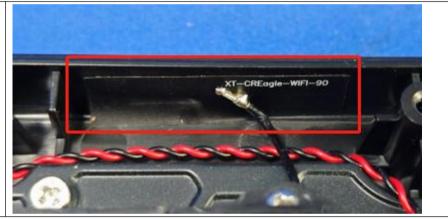
15.203 requirement:

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.





5.2 Conducted Emissions

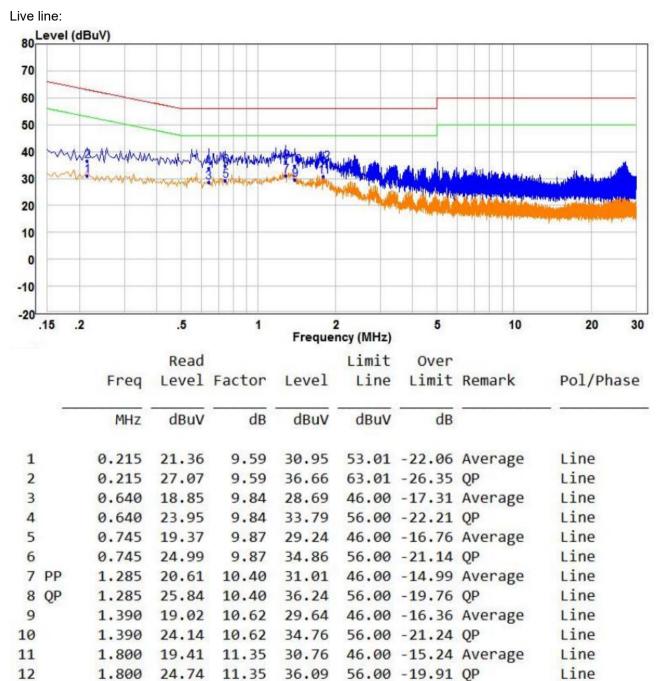
 Conducted Emissio						
Test Requirement:	47 CFR Part 15C Section 15.207					
Test Method:	ANSI C63.10: 2013					
Test Frequency Range:	150kHz to 30MHz					
Limit:		Limit (c	lBuV)			
	Frequency range (MHz)	Quasi-peak	Average			
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the logarithn	n of the frequency.	·			
Test Procedure:	 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shier room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω lin impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above th ground reference plane. And for floor-standing arrangement, the EUT v placed on the horizontal ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of th unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2 					
Test Setup:	Shielding Room	AE UISN2 + AC Ma Ground Reference Plane	Test Receiver			



Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of
	data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in the report.
Test Voltage:	AC 120V/60Hz
Test Results:	Pass



Measurement Data



Remark:

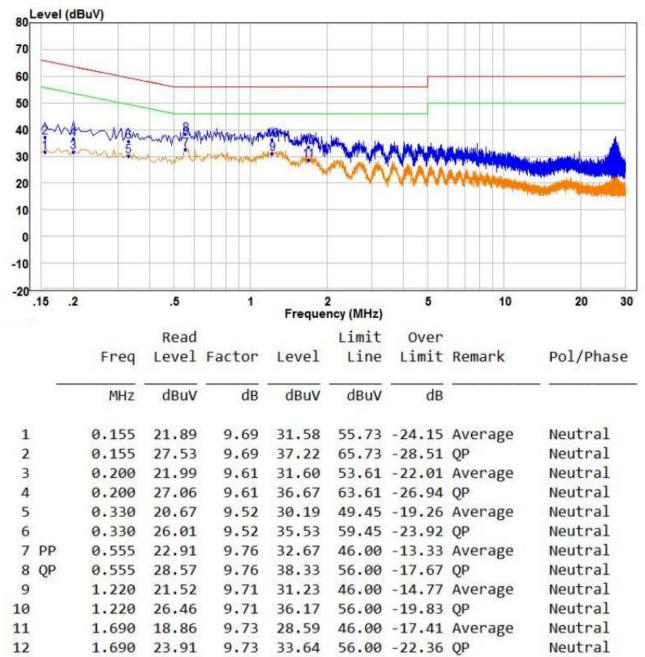
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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.



5.3 Conducted Peak Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(1)				
Test Method:	ANSI C63.10:2013				
Test Setup:	Setup for Power meter measurement method				
	EUT Power Meter				
	Setup for Spectrum analyser measurement method				
	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane				
	Remark: Offset=Cable loss+ attenuation factor.				
Limit:	21dBm				
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type				
Final Test Mode:	Only the worst case is recorded in the report.				
Test Results:	Pass				

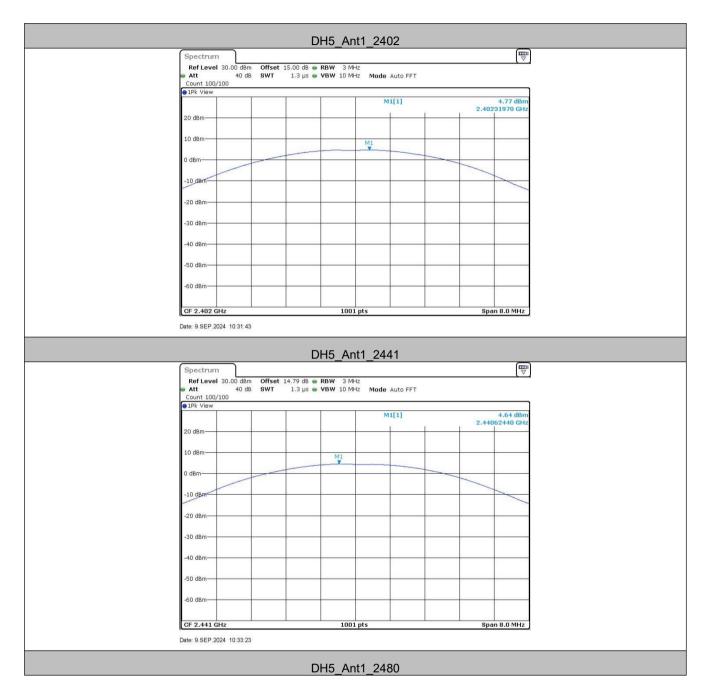


Measurement Data

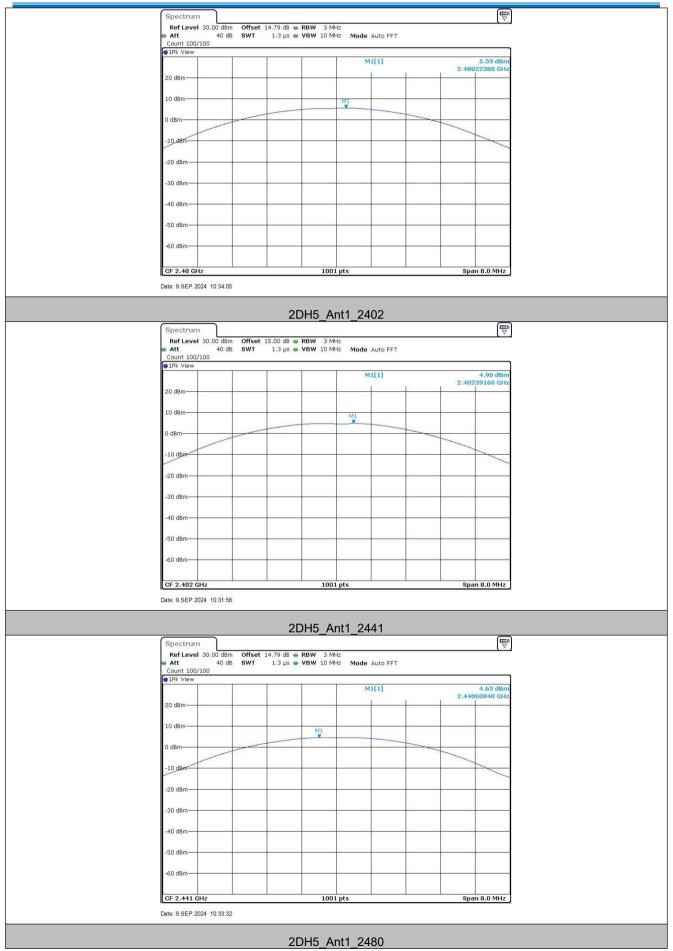
GFSK mode						
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	4.77	21.00	Pass			
Middle	4.64	21.00	Pass			
Highest	5.59	21.00	Pass			
	π/4DQPSK m	ode				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	4.9	21.00	Pass			
Middle	4.63	21.00	Pass			
Highest	5.61	21.00	Pass			
	8DPSK mod	le				
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result			
Lowest	4.67	21.00	Pass			
Middle	4.63	21.00	Pass			
Highest	5.52	21.00	Pass			



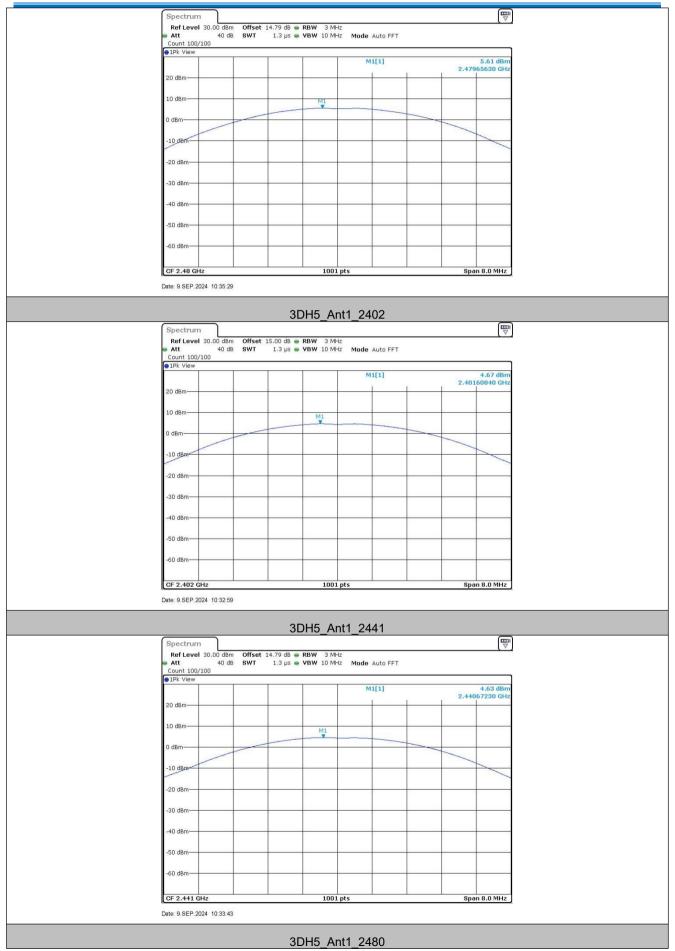
Test plot as follows:









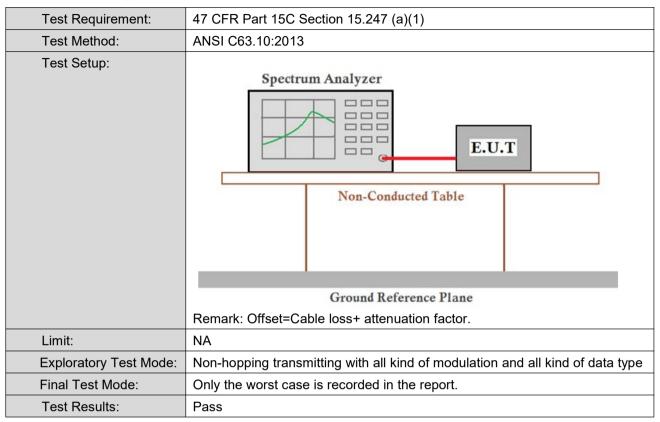




Ref Level 30.00 Att 4	O dB SWT		Auto FFT			
Count 100/100	SPECIAL MERCHAN					
1Pk View		 				
		N	1[1]	2.480	5.52 dBm 031970 GHz	
20 dBm-						
10 dBm		 M1				
0 dBm		 -				
0 dBm						
-10 dBm						
-20 dBm	_	 				
-30 dBm	_	 				
-40 dBm		 				
-50 dBm	_	 				
-60 dBm		 				
CF 2.48 GHz		1001 pts		Spa	in 8.0 MHz	



5.4 20dB Occupied Bandwidth

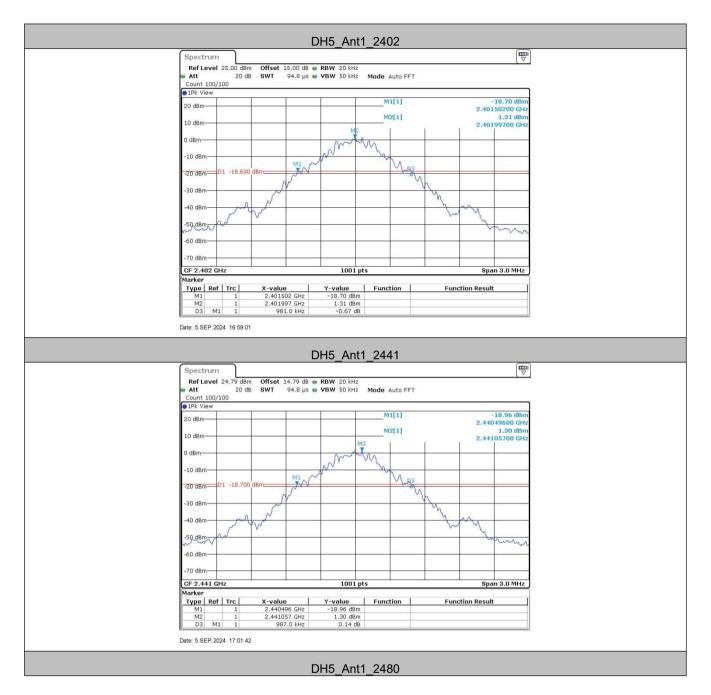


Measurement Data

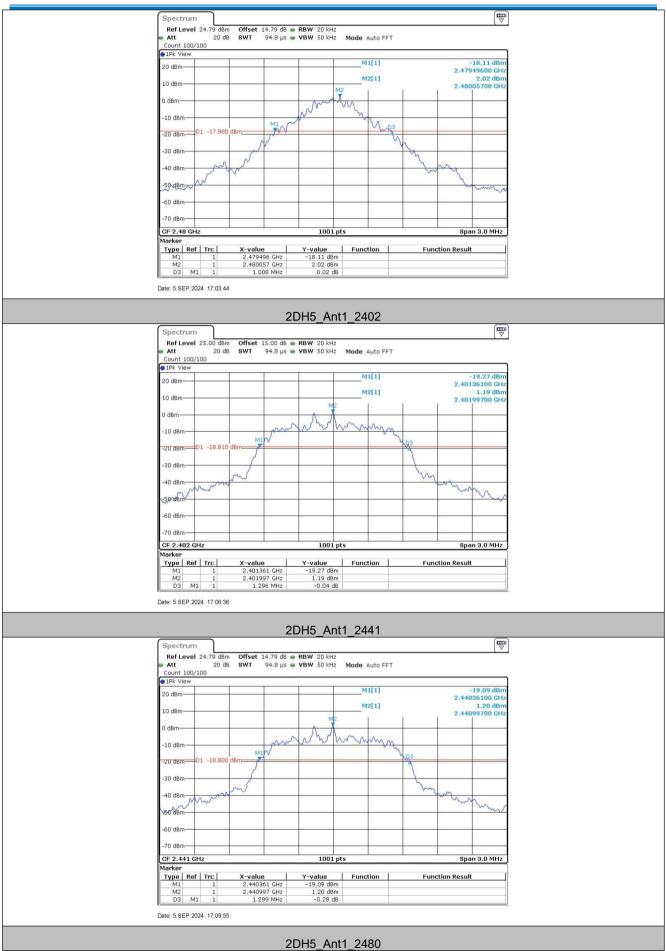
Test channel	20dB Occupy Bandwidth (MHz)					
rest channel	GFSK	π/4DQPSK	8DPSK			
Lowest	0.98	1.30	1.25			
Middle	0.99	1.30	1.27			
Highest	1.01	1.32	1.28			



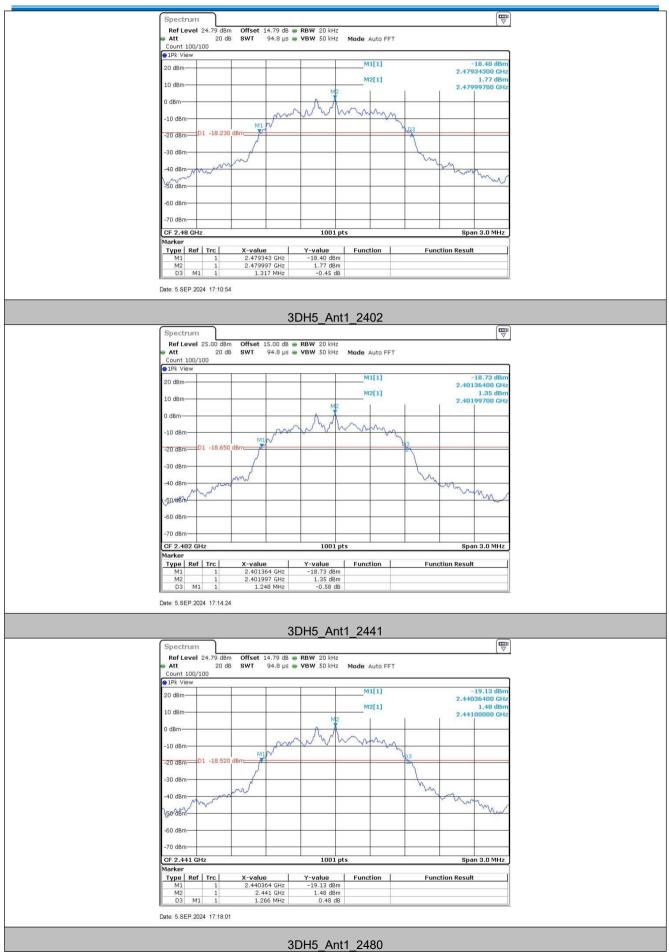
Test plot as follows:





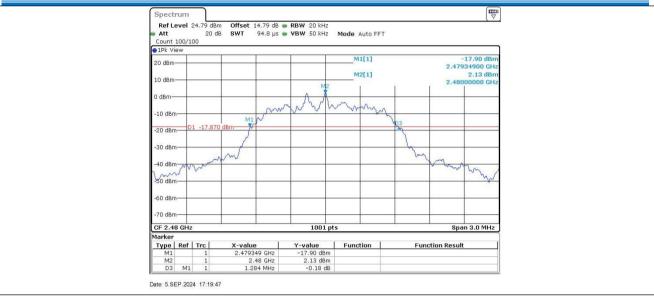






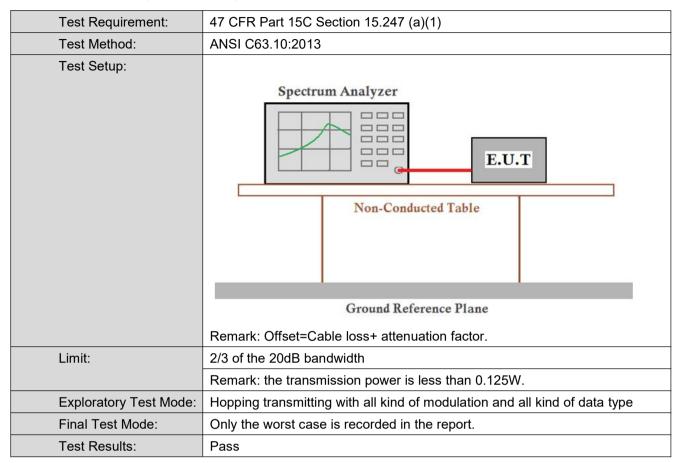








5.5 Carrier Frequencies Separation





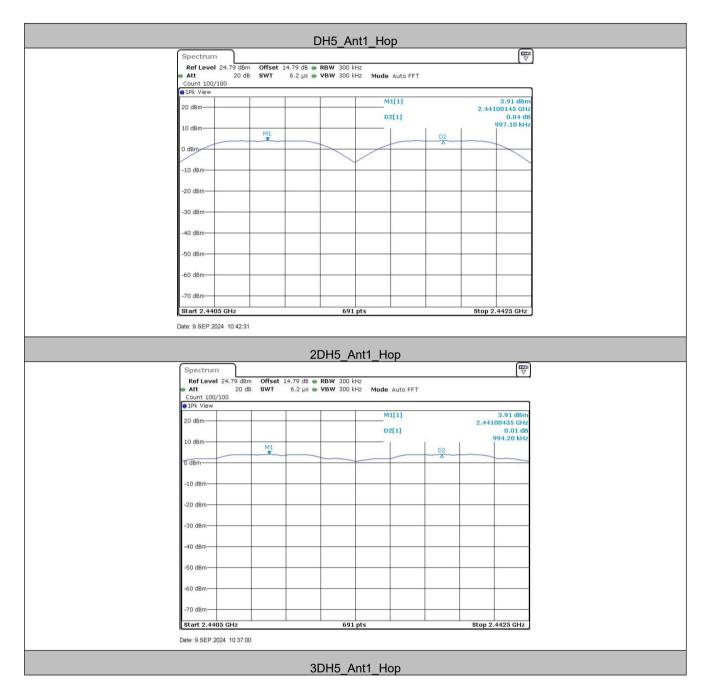
Measurement Data

TestMode	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Нор	0.997	≥0.673	PASS
2DH5	Нор	0.994	≥0.880	PASS
3DH5	Нор	1	≥0.853	PASS

Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	1.01	≥0.673
π/4DQPSK	1.32	≥0.880
8DPSK	1.28	≥0.853



Test plot as follows:







Att Count 100/100	79 dBm Offset 14.79 20 dB SWT 6.2	us e VBW 300 kHz us e VBW 300 kHz	Mode Auto FFT		
1Pk View					
20 dBm			M1[1]		4.57 dBm 2.44100145 GHz 0.01 dB
10 dBm	M1		_	D2	1.00000 MHz
0 dBm					1
-10 dBm					
-20 dBm					
-30 dBm					
-40 dBm					
-50 dBm					
-60 dBm					
-70 dBm				ee	
Start 2.4405 G	Hz	691 pts			Stop 2.4425 GHz



5.6 Hopping Channel Number

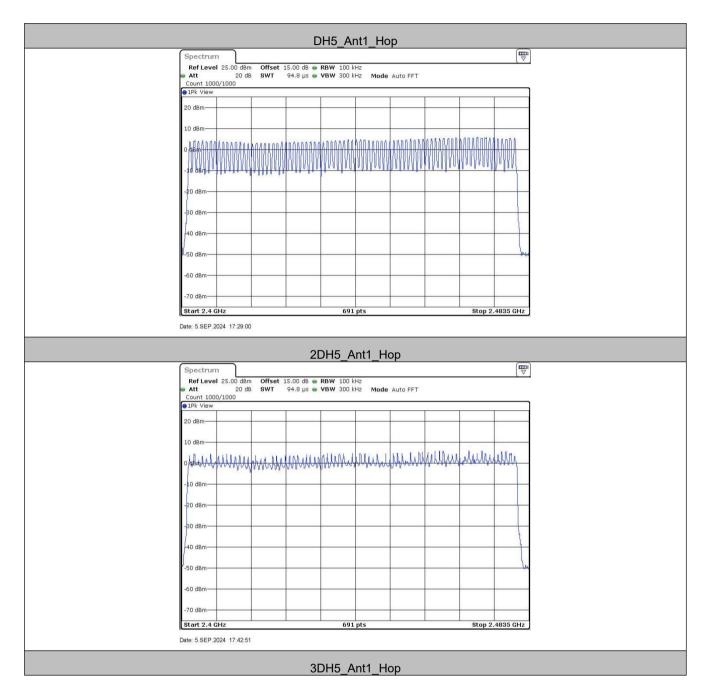
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)			
Test Method:	ANSI C63.10:2013			
	ANSI C03. 10.2013			
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.			
Limit:	At least 15 channels			
Exploratory Test Mode:	hopping transmitting with all kind of modulation and all kind of data type			
Final Test Mode:	Only the worst case is recorded in the report.			
Test Results:	Pass			

Measurement Data

Mode	Hopping channel numbers	Limit
GFSK	79	≥15
π/4DQPSK	79	≥15
8DPSK	79	≥15



Test plot as follows:





Ref Level 2 Att Count 1000/1	20 dB		5.00 dB 👄 94.8 μs 👄			Auto FFT				
●1Pk View	000									-
20 dBm								2 <u> </u>	-	-
10 dBm										-
operturn	AM	mulant	HAMAN	Auraly	www	MANAN	halland	MUMAN	uuu	
-10 dBm									-	
-20 dBm				1	8	ci ci	1	2 G	8 <u></u>	
-30 dBm								:	-	
40 dBm										4
-50 dBm								<u></u>		54
-60 dBm					-				-	-
-70 dBm										
Start 2.4 GHz	ŝ.			691	pts			Stop 2.	4835 G	Hz



5.7 Dwell Time

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)						
Test Method:	ANSI C63.10:2013						
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table						
	Ground Reference Plane						
	Remark: Offset=Cable loss+ attenuation factor.						
Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type.						
Limit:	0.4 Second						
Test Results:	Pass						



Measurement Data

TestMode	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Нор	0.379	320	0.121	≤0.4	PASS
DH3	Нор	1.626	170	0.276	≤0.4	PASS
DH5	Нор	2.867	80	0.229	≤0.4	PASS
2DH1	Нор	0.388	330	0.128	≤0.4	PASS
2DH3	Нор	1.633	110	0.18	≤0.4	PASS
2DH5	Нор	2.873	120	0.345	≤0.4	PASS
3DH1	Нор	0.389	330	0.128	≤0.4	PASS
3DH3	Нор	1.631	180	0.294	≤0.4	PASS
3DH5	Нор	2.873	50	0.144	≤0.4	PASS

Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s



Test plot as follows:

