Shenzhen Huaxia Testing Technology Co., Ltd.



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

Test Report

Report No. :	CQASZ20230200137E-01
Applicant:	THINKCAR TECH CO., LTD.
Address of Applicant:	2606, building 4, phase II, TiananYungu, Gangtou community, Bantian,
	Longgang District, Shenzhen
Equipment Under Test (E	UT):
Product:	THINKLINK Video Remote Service Device, THINKLINK Video Remote Service
	Device, THINKLINK Video Remote Diagnostic Device
Model No.:	TKSL1, TKTL1
Test Model No.:	TKSL1
Brand Name:	THINKCAR, XHINKCAR, MUCAR
FCC ID:	2AUARTHINKTLB
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2022-02-22
Date of Test:	2022-02-22 to 2023-02-14
Date of Issue:	2023-02-24
Test Result :	PASS*

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

Tested By:	lewis zhou	TESTING		
	(Lewis Zhou)	- ALL LEST THE LEGT		
Reviewed By:	Timo Loj		ſ	F
-	(Timo Lei)	- 译复准测入		
Approved By:	Jamos	* APPROVED *		
	(Jack Ai)			

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
CQASZ20230200137E-01	Rev.01	Initial report	2023-02-24

Note:

This test report (Ref. No.: CQASZ20230200137E-01)

In addition to radiation stray test data, other test data in the report are from the original test report (Ref. No.: CQASZ2022020239E-01).

Only the appearance of the test sample was reported, for which radiation spurious was retested



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 Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(1)	ANSI C63.10 (2013)	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Carrier Frequencies Separation	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Hopping Channel Number	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Dwell Time	47 CFR Part 15, Subpart C Section 15.247 (a)(1)	ANSI C63.10 (2013)	PASS
Pseudorandom Frequency Hopping Sequence	47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002)	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			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

Note:

In addition to radiation stray test data, other test data in the report are from the original test report (Ref. No.: CQASZ2022020239E-01).

Only the appearance of the test sample was reported, for which radiation spurious was retested



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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:	Room 401, 4th Floor, Block B, Qiaoan Science and Technology Industrial Park, Longhua District, Shenzhen, Guangdong, China					

4.2 General Description of EUT

Product Name:	THINKLINK Video Remote Service Device, THINKLINK Video Remote						
	Service Device, THINKLINK Video Remote Diagnostic Device						
Model No.:	TKSL1, TKTL1						
Test Model No.:	TKSL1						
Trade Mark:	THINKCAR, XHINKCAR, MUCAR						
Operation Frequency:	2402MHz~2480MHz						
Bluetooth Version:	V4.2						
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:	cktszsss32						
Antenna Type:	FPC antenna						
Antenna Gain:	3.34dBi						
Power Supply:	Adapter: MODEL: PSY1204000 INPUT: 100-240V~50/60Hz 1.3A Max OUTPUT: 12V 4A, 48W						



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	2431MHz 49 2451MHz 69		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 (Power level is built-in set para selected)	meters and cannot be changed and					
Use test software to set the le	owest frequency, the middle frequency and	the highest frequency keep					
transmitting of the EUT.							
Mode	Channel Frequency(MH						
	СН0	2402					
DH1/DH3/DH5	CH39	2441					
	CH78	2480					
	СН0	2402					
2DH1/2DH3/2DH5	CH39	2441					
	CH78	2480					
	СН0	2402					
3DH1/3DH3/3DH5	СН39	2441					
	CH78	2480					

Run Software:

🗈 sscol	M V5.13.1	串口/网	络数据	调试器,作者	:大朝丁丁	F,26180	058@qq.co	m. QQ群:	52502449(最新版本	(#	-		×
通讯端口	串口设置	显示	发送	多字符串	小工具	帮助	联系作者	大虾论坛					
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1130035110								100 100 11 11 100 V	▲別一「(*111)の円3	# H 0500 X 19	m me.	ad Aores	"Almal at has I was



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	FCC certification
/	1	1	1	1



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

			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
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2022/9/9	2023/9/8
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2022/9/9	2023/9/8
Loop antenna	Schwarzbeck	FMZB1516	CQA-087	2021/9/16	2024/9/15
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable					
(Above 1GHz)	CQA	N/A	C019	2022/9/9	2023/9/8
Coaxial Cable					
(Below 1GHz)	CQA	N/A	C020	2022/9/9	2023/9/8
Antenna Connector	CQA	RFC-01	CQA-080	2022/9/9	2023/9/8
RF					
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	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	ESPI3	CQA-013	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

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)
-----------------------	--

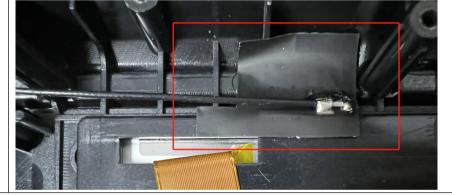
15.203 requirement:

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 best case gain of the antenna is 3.34 dBi.





5.2 Conducted Emissions

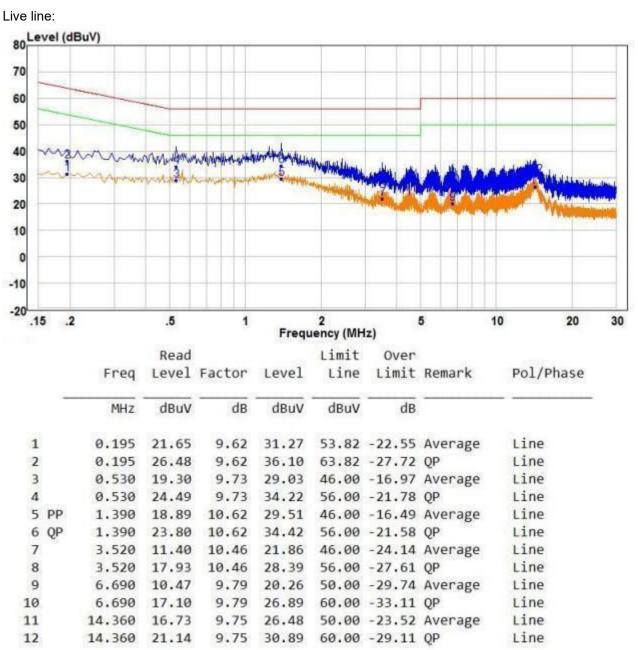
 Conducted Emissio				
Test Requirement:	47 CFR Part 15C Section 15.2	207		
Test Method:	ANSI C63.10: 2013			
Test Frequency Range:	150kHz to 30MHz			
Limit:		Limit (c	lBuV)	
	Frequency range (MHz)	Quasi-peak	Average	
	0.15-0.5	66 to 56*	56 to 46*	
	0.5-5	56	46	
	5-30	60	50	
	* Decreases with the logarithn	n of the frequency.		
Test Setup:	 The mains terminal disturbation of the EUT was connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single Liexceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal grade on the tell shall be 0.4 m for the EUT shall be 0.4 m for the EUT shall be 0.4 m for the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and all of the in ANSI C63.10: 2013 on control of the grade on the top of the grade on the top of the grade on the top of the grade between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the closest points the EUT and associated explored between the close to find the maximum equipment and all of the in the tell t	b AC power source thro etwork) which provides oles of all other units of SN 2, which was bonde in way as the LISN 1 for et outlet strip was used ISN provided the rating ced upon a non-metalling of floor-standing an round reference plane, th a vertical ground ref from the vertical ground ref from the vertical ground ref from the vertical ground olane was bonded to the 1 was placed 0.8 m fro to a ground reference and reference plane. The of the LISN 1 and the quipment was at least 0 in emission, the relativi- terface cables must be	bugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω line f the EUT were d to the ground or the unit being d to connect multiple of the LISN was not c table 0.8m above the rangement, the EUT was d reference plane. The read d reference plane. The read d reference plane. The read d reference plane the EUT was end the boundary of the plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2 we positions of	near ne was ar e ne
Test Setup:	AC Mains	AE B B B B C C B C C C C C C C C C C C C C	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

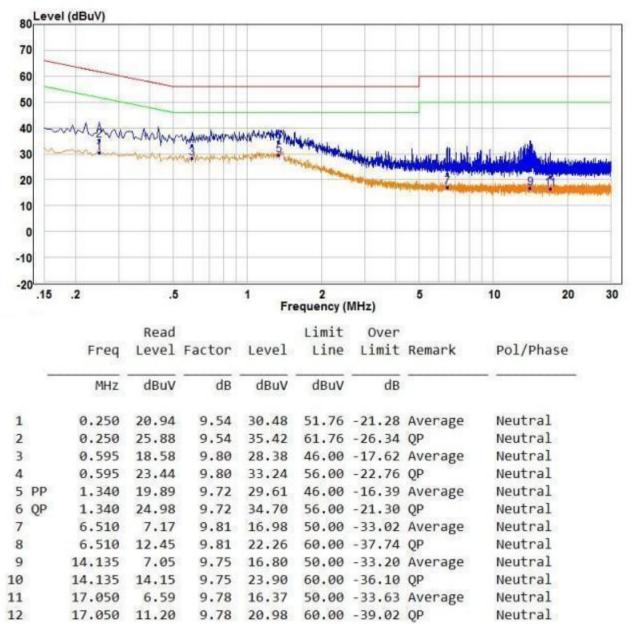


Remark:

- 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:	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:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass



Measurement Data

	GFSK mode	e	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	4.43	21.00	Pass
Middle	5.73	21.00	Pass
Highest	5.82	21.00	Pass
	π/4DQPSK m	ode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	3.23	21.00	Pass
Middle	4.47	21.00	Pass
Highest	4.88	21.00	Pass
	8DPSK mod	e	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	3.93	21.00	Pass
Middle	4.89	21.00	Pass
Highest	5.34	21.00	Pass



Test plot as follows:





	DH5_Ant1_	2480		
Spectrum Ref Level 30.00 dBm Offs	et 9.80 dB RBW 3 MHz	2100		
Att 40 dB SW1 Count 100/100	F 1.3 μs VBW 10 MHz Mo	de Auto FFT		
IPk View		M1[1]	5.82 dBm 2.47972030 GHz	
20 dBm				
10 dBm	M1			
-10 gBm				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
-60 dBm				
CF 2.48 GHz	1001 pts		Span 8.0 MHz	
Date: 28. JUN. 2022 02:33:13				
Spectrum	2DH5_Ant1_	_2402	Ē	
Att 40 dB SW1	2DH5_Ant1_		Ē	
Ref Level 30.00 dBm Offs	set 9.84 dB 🖷 RBW 3 MHz	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SW1 Count 100/100	set 9.84 dB 🖷 RBW 3 MHz			
Ref Level 30.00 dBm Offs Att 40 dB SW1 Count 100/100 P1Pk View	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SW1 Count 100/100 P1Pk View 20 dBm	set 9.84 dB 🖷 RBW 3 MHz	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SWI Count 100/100 1Pk View 10 20 dBm 10 dBm 10 dBm 10 dBm	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SW1 Count 100/100 10k View 10 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SWI Count 100/100 1Pk View 20 dBm 10 dBm 0 dBm 10 dBm -20 dBm -30 dBm -30 dBm	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SW1 Count 100/100 10k View 10 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SWI Count 100/100 1Pk View 10 1Pk View 10 dBm 10 dBm 10 dBm - - -10 dBm - - -30 dBm - - -40 dBm - -	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	
Ref Level 30.00 dBm Offs Att 40 dB SWI Count 100/100 1Pk View 20 dBm 10 dBm 0 10 dBm 10 dBm	iet 9.84 dB — RBW 3 MHz г 1.3 µs — VBW 10 MHz Мо	de Auto FFT	3.23 dBm	



	2DH5_An	t1 2441		
Spectrum		_		
Ref Level 30.00 dBm O	ffset 9.80 dB 🖷 RBW 3 MHz		ι _Δ	
Att 40 dB S ¹	WT 1.3 μs 🖷 VBW 10 MHz	Mode Auto FFT		
Count 100/100 P1Pk View			1	
		M1[1]	4.47 dBm	
20 dBm		T T	2.44063240 GHz	
20 060				
10 dBm				
10 0011	M1			
0 dBm				
-10 dBm				
-20 dBm		a		
20 40-				
-30 dBm				
-40 dBm				
and don't				
-50 dBm				
-60 dBm				
CF 2.441 GHz	1001	nts	Span 8.0 MHz	
Date: 28.JUN.2022 02:40:51	1001		opun oto mi iz	
Spectrum	2DH5_An	t1_2480		
Spectrum Ref Level 30.00 dBm Q		t1_2480		
RefLevel 30.00 dBm O Att 40 dB S	2DH5_An			
Ref Level 30.00 dBm O Att 40 dB St Count 100/100	ffset 9.80 dB 🖷 RBW 3 MHz			
RefLevel 30.00 dBm O Att 40 dB S	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 • 1Pk View	ffset 9.80 dB 🖷 RBW 3 MHz			
Ref Level 30.00 dBm O Att 40 dB St Count 100/100	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 IPk View 20 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 • 1Pk View	ffset 9.80 dB 🖷 RBW 3 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 IPk View 20 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 d8m O Att 40 d8 S' Count 100/100 1Pk View 20 20 d8m 10 d8m 10 d8m	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 d8m O Att 40 d8 S' Count 100/100 1Pk View 20 20 d8m 10 d8m 10 d8m	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 91Pk View 90 dBm 20 dBm 10 dBm 90 dBm 10 dBm 90 dBm 90 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB SY Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 90 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 90 dBm 10 dBm -20 dBm -20 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 91Pk View 90 dBm 20 dBm 10 dBm 90 dBm 10 dBm 90 dBm 90 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 9 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 90 dBm 10 dBm -20 dBm -20 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 90 dBm 10 dBm 90 dBm 90 dBm -10 dBm 90 dBm 90 dBm -30 dBm -40 dBm 90 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 9 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -30 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB St Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 90 dBm 10 dBm 90 dBm 90 dBm -10 dBm 90 dBm 90 dBm -30 dBm -40 dBm 90 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 9 1Pk View 20 20 dBm 10 dBm 10 dBm 10 dBm -0 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT	4.88 dBm	
Ref Level 30.00 dBm O Att 40 dB S' Count 100/100 9 1Pk View 20 20 dBm 10 dBm 10 dBm 10 dBm -0 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm	ffset 9.80 dB — RBW 3 MHz WT 1.3 µs — VBW 10 MHz	Mode Auto FFT M1[1]	4.88 dBm	



	3DH5_Ant1_2402		
Spectrum			
	9.84 dB 👄 RBW 3 MHz		
Att 40 dB SWT	1.3 µs 🖷 VBW 10 MHz 🛛 Mode Auto FFT		
Count 100/100 Pk View]	
	M1[1]	3.93 dBm	
00 10 -		2.40164040 GHz	
20 dBm-			
10 dBm-			
10 4011	M1		
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
10 dDm			
-40 dBm			
-50 dBm			
-60 dBm			
CF 2.402 GHz	1001 pts	Span 8.0 MHz	
	1001 prs	apan ata Minz	
Date: 28.JUN.2022 02:41:32			
	3DH5_Ant1_2441		
Spectrum			
Ref Level 30.00 dBm Offset	9.80 dB 🗑 RBW 3 MHz		
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100			
Ref Level 30.00 dBm Offset	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT		
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	9.80 dB 🗑 RBW 3 MHz	(∭) 4.89 dBm 2.44064040 GHz	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT	4.89 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 110/100 1Pk View 20 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT	4.89 dBm	
RefLevel 30,00 dBm Offset Att 40 dB SWT Count 100/100 1Pk View	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 10 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT	4.89 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 110/100 1Pk View 20 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 P1Pk View 20 dBm 10 dBm 0 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 91Pk View 20 dBm 10 dBm 10 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 dBm 20 dBm 10 dBm 90 dBm 10 dBm 90 dBm 90 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 P1Pk View 20 dBm 10 dBm 0 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30.00 dBm Offset 40 dB SWT Count 100/100 1Pk View 90 dBm 90 dBm 20 dBm 10 dBm 90 dBm 90 dBm 10 dBm 90 dBm 90 dBm 90 dBm 20 dBm 90 dBm 90 dBm 90 dBm 10 dBm 90 dBm 90 dBm 90 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 dBm 20 dBm 10 dBm 90 dBm 10 dBm 90 dBm 90 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30.00 dBm Offset 40 dB SWT Count 100/100 1Pk View 90 dBm 90 dBm 20 dBm 10 dBm 90 dBm 90 dBm 10 dBm 90 dBm 90 dBm 90 dBm 20 dBm 90 dBm 90 dBm 90 dBm 10 dBm 90 dBm 90 dBm 90 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 dBm 20 dBm 0 0 dBm 90 dBm 10 dBm 90 dBm 90 dBm 90 dBm -20 dBm -30 dBm 90 dBm 90 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 dBm 20 dBm 0 0 dBm 90 dBm 10 dBm 90 dBm 90 dBm 90 dBm -20 dBm -30 dBm 90 dBm 90 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 91Pk View 90 91Pk View 90	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB Att 40 dB SWT Count 100/100 1Pk View 20 dBm 20 dBm 10 dBm 10 dBm 10 dBm -0 dBm -30 dBm -30 dBm -40 dBm -40 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 91Pk View 90 91Pk View 90	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30,00 dBm Offset 40 dB SWT Count 100/100 91Pk View 90 91Pk View 90 91Pk View 90	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1]	4.89 dBm	
Ref Level 30.00 dBm Offset 40 dB SWT Count 100/100 ●1Pk View 20 dBm 10 dBm 0 dBm 0 dBm 0 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm -50 dBm	9.80 dB = RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Auto FFT M1[1] M1 M1 M1 M1 M1 M1 M1 M1 M1 M1	4.89 dBm 2.44064040 GHz	



3DH5_Ant1_2480	
RefLevel 30.00 dBm Offset 9.80 dB RBW 3 MHz Att 40 dB SWT 1.3 µs VBW 10 MHz Mode Auto FFT Count 100/100	
1Pk View 10	
20 dBm	
0 dBm	
-10 dBm	
-20 dBm	
-40 dBm	
-50 dBm	
-60 dBm	
CF 2.48 GHz 1001 pts Span 8.0 MHz	



5.4 20dB Occupy Bandwidth

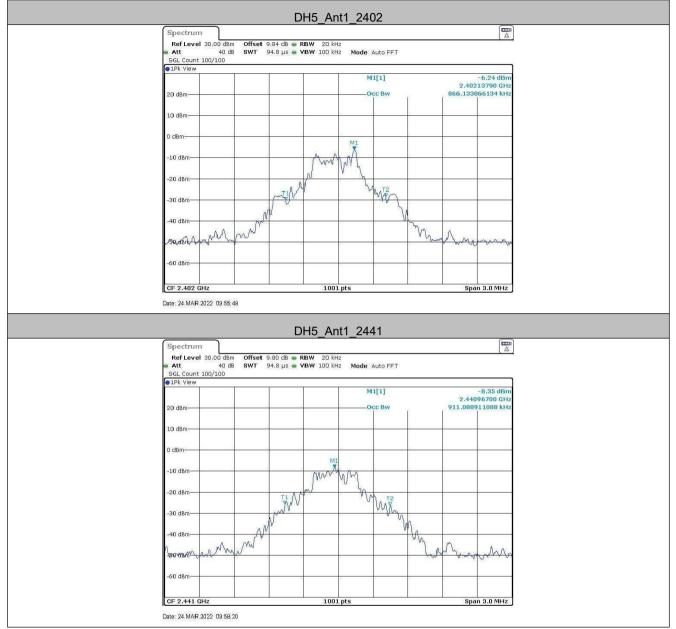
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
	Remark: Offset=Cable loss+ attenuation factor.
Limit:	NA
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass

Measurement Data

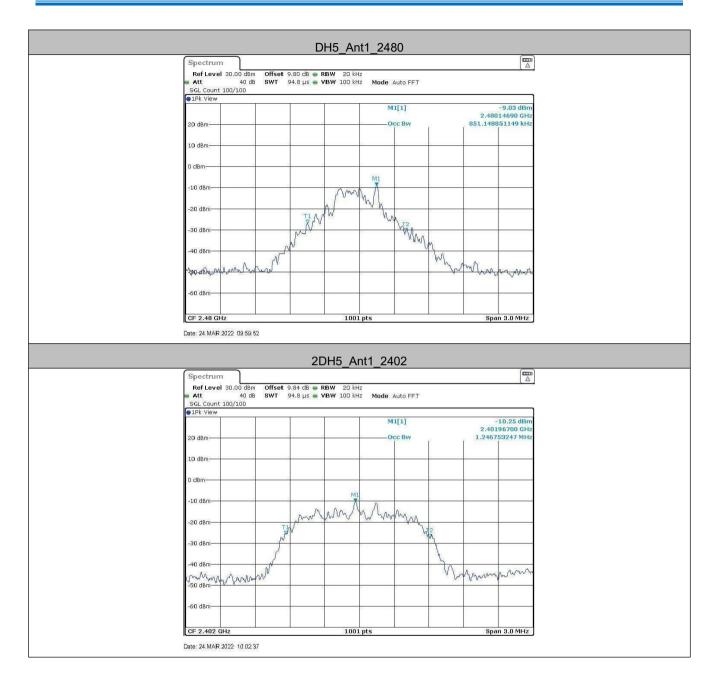
Test channel	20	0dB Occupy Bandwidth (MH	z)
rest channel	GFSK	π/4DQPSK	8DPSK
Lowest	0.866	1.247	1.232
Middle	0.911	1.253	1.247
Highest	0.851	1.265	1.259



Test plot as follows:







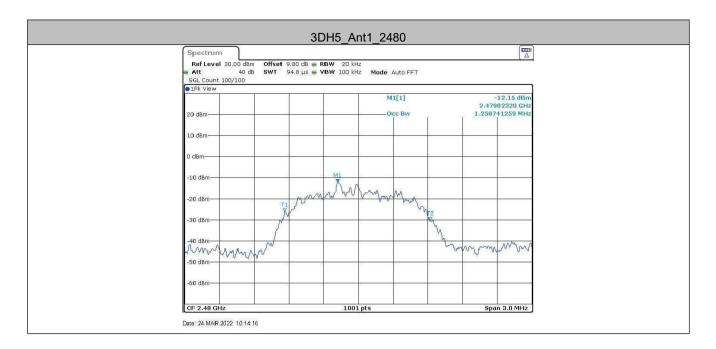














5.5 Carrier Frequencies Separation

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.
Limit:	2/3 of the 20dB bandwidth
	Remark: the transmission power is less than 0.125W.
Exploratory Test Mode:	Hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass



Measurement Data

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1.319	≥0.607	PASS
2DH5	Ant1	Нор	1.003	≥0.843	PASS
3DH5	Ant1	Нор	1.125	≥0.839	PASS

Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	0.911	≥0.607
π/4DQPSK	1.265	≥0.843
8DPSK	1.259	≥0.839



Test plot as follows:





S	ectrum			Ant1_Hop		
	ef Level 30.00 dBr .tt 40 d ount 100/100		0 dB 👄 RBW 100 9 µs 👄 VBW 300	:Hz :Hz Mode Auto FFT	<u>_</u>	
	Pk View					7
20	dBm			M1[1] D2[1]	0.43 dBr 2.44095217 GH 0.62 dl 1.12464 MH	iz IB
10	dBm					-
00	IBm	M1	~~~		D2	>
-11) dBm					-
-21) dBm		-	8		-
-31) dBm					-
-41) dBm					-
-51) dBm			N 1		-
-61	I dBm		<i>ā</i> .			-
st	art 2.4405 GHz		60	1 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
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:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. 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:

	DH5_Ant1_Hop	
Spectrum		
Ref Level 30.00 dBm Att 40 dB	Offset 9.84 dB ● RBW 100 kHz SWT 94.8 µs ● VBW 300 kHz Mode Auto FFT	
10 1Pk View		
20 dBm		5
10 dBm-		
0 dBm		
MAKANNAANN	אהמה ההתה התחתו את מהחמו את המתו לא מתחיד להמתו להאת האת המתו להתו את התחודה ההאת א	11nBAN
-10 dBm++++++++++++++++++++++++++++++++++++		NH N
-20 dBm	Ladboothaabablababaadsaabbaddbadbbdkabbbaddbfbfbfbfbbdbbb	
-30 dBm		
J		Letter
~40 dBm		
-50 dBm		
-60 dBm		-
Start 2.4 GHz	Au and a second s	4835 GHz
Date: 24.MAR.2022 10:23:3	7	
	2DUE Anti Llan	
	2DH5_Ant1_Hop	ſm
Spectrum Ref Level 30.00 dBm	Offset 9.84 dB 🖷 RBW 100 kHz	
Att 40 dB		
• 1Pk View		1
20 dBm-		0
10 dBm		
0 dBm		
Mar Martin	and and a stand a stand and and a stand and and a stand and and a stand and a stand and a stand and a stand and a stan	ALAMA
-10 080		
-20 dBm		
-BO dBm		
		A.,
		1 604
N40 dBm		
ملام 440 dBm -50 dBm		
مالار M40 dBm		
-50 dBm	for this story 2	4835 GH7
-50 dBm	in the second	4835 GHz



Spectrum								
			RBW 100 k				<u> </u>	
IPk View	Att 40 dB SWT 94.8 μs VBW 300 kHz Mode Auto FFT A1Pk View							
					1			
20 dBm-		0		10 10		-		
10 dBm								
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	Loon Mala	000 000		1	Redingers	44 1.00. 1		
-10 dBm							1.5	
-20 dBm		~		2				
-30 dBm		<u></u>	2	6 G	1			
J40 dBm				-			_ به الم	
0.1 80								
-50 dBm								
-60 dBm				a		c		
Start 2.4 G				1 pts			-835 GHz	



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

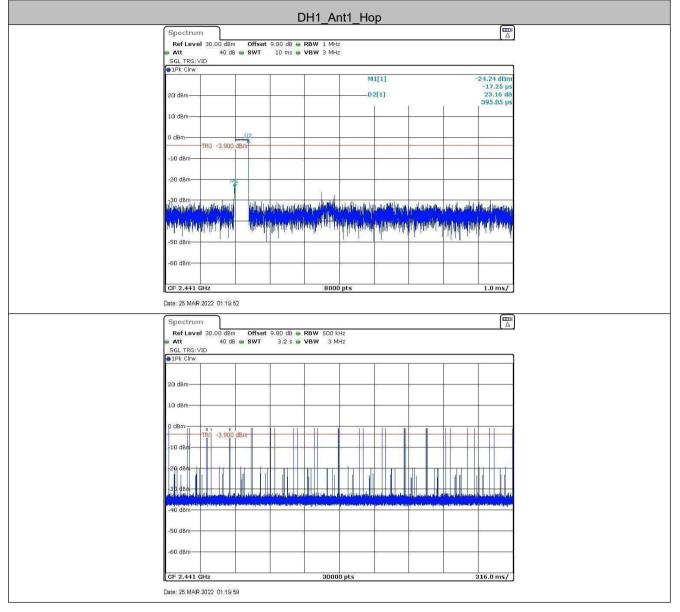
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.40	330	0.13	≤0.4	PASS
DH3	Ant1	Нор	0.42	170	0.071	≤0.4	PASS
DH5	Ant1	Нор	0.42	130	0.055	≤0.4	PASS
2DH1	Ant1	Нор	-0.03	110	-0.003	≤0.4	PASS
2DH3	Ant1	Нор	0.39	320	0.123	≤0.4	PASS
2DH5	Ant1	Нор	2.87	100	0.287	≤0.4	PASS
3DH1	Ant1	Нор	0.39	320	0.123	≤0.4	PASS
3DH3	Ant1	Нор	1.63	150	0.244	≤0.4	PASS
3DH5	Ant1	Нор	2.87	110	0.316	≤0.4	PASS

Remark:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s
DH1/2DH1/3DH1 Dwell time = Burst Width(ms)*[1600/ (2*79)]*31.6
DH3/2DH3/3DH3 Dwell time = Burst Width (ms)*[1600/ (4*79)]*31.6
DH5/2DH5/3DH5 Dwell time = Burst Width (ms)*[1600/ (6*79)]*31.6



Test plot as follows:





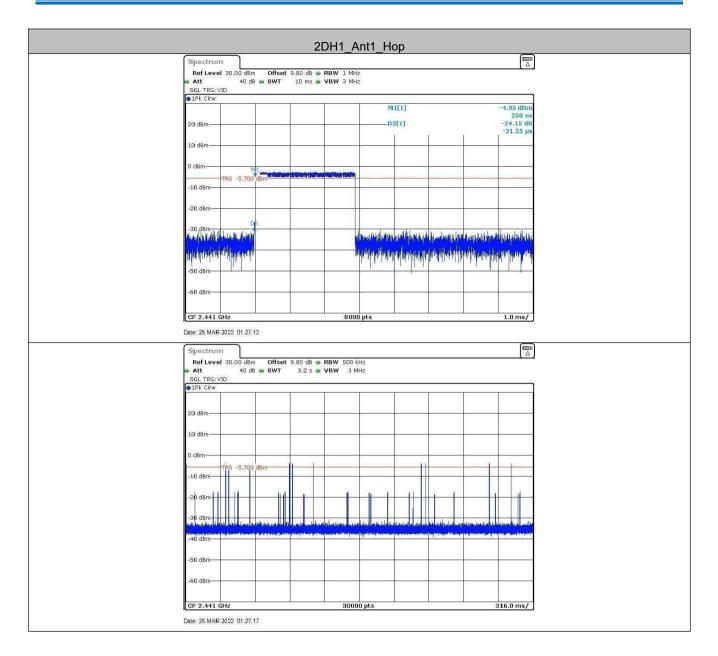
	DH3	3_Ant1_Hop)		
Spectrum					
Ref Level 30.00 dBm C				(-)	4
Att 40 dB SGL TRG: VID	WT 10 ms 👄 VBW	V 3 MHz			
IPk Cirw					
		M1[1]	-25.63 dBm	
20 dBm-		D2[11	-31.00 μs 24.52 dB	
20 0011		D AL		417.55 µs	
10 dBm					
0 dBm	×				
-10 dBm					
-20 dBm	-				
-30 dBm	1. 1.		E LAND E	Tel	
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-50 dBm	li h h			all na béras	
-60 dBm			4		
CF 2.441 GHz		8000 pts		1.0 ms/	
Date: 25.MAR.2022 01:20:23					
Spectrum]
	offset 9.80 dB 👄 RBW			1900 - 12	•
Att 40 dB SGL TRG: VID	WT 3.2 s 👄 VBW	V 3 MHz			
Pk Clrw				ī	
		- E	T		
20 dBm	- 2 - 2				
20 dBm					
20 dBm					
20 dBm 10 dBm 0 dBm TRG -3.900 dBm-					
20 dBm					
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20 dBm 10 dBm 0 dBm TRG -3.900 dBm-					
20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm					
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20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -40 dBm					
20 dBm 10 dBm 0 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm				316.0 ms/	



			C	H5_Ar	nt1_Ho	р			
Spectru	m					-			
Ref Lev	el 30.00 dBm								(-
Att SGL TRG:		s 👄 SWT	10 ms 👄	VBW 3 MHz					
●1Pk Clrw									
					M	L[1]		-	24.47 dBm
20 dBm-					D	[1]			-31.00 µs -6.27 dB
20 0011								. i	421.30 µs
10 dBm					e.				
0 dBm			-			-			1
-10 dBm-	TRG -5.700	dBm	-						
-20 dBm-									
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-60 dBm—							4	2	
CF 2.441		000		8000	l pts				1.0 ms/
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Ref Lev Att	el 30.00 dBm 40 dB		9.80 dB 👄 3.2 s 👄						
SGL TRG:	VID								
1Pk Clrw			1						_
20 dBm			8 8		5		8	0	
10 dBm						-		-	
0 dBm									
	TRG -5.700	dBm	1				1		
-10 dBm—			ő – <u>ő</u> ő	-	2	8 - 8	8 1974	8 8 85	
-20 dBm—	.1		1 1		- 1		5 - 14 K. 1		h a
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-50 dBm—					2				
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-bo upili									
CF 2.441	GHz	1	1	3000	0 pts			3	16.0 ms/
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Att 40 db SWT 10 ms VBW 3 MHz 6.FK Clww 10 ms 0211 -5.19 dbm 20 dbm 0211 1.6 db 305.05 µs 10 dbm 10 dbm 0211 1.6 db 0 dbm 10 dbm 10 dbm 10 dbm 10 dbm -10 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 dbm 10 dbm 10 dbm 10 dbm 10 dbm 10 dbm -30 dbm 10 db
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-10 dbm -20 dbm -20 dbm -20 dbm -30 dbm -50
-po dpm
Invalid London Len Invalid Len Invalin Invalid Len Invalid Len
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-60 dBm
-60 dBm
CF 2.441 GHz 8000 pts 1.0 ms/ Date: 25 MAR 2022 01:28:12 Image: 25 MAR 2022 01:28:12 Image: 25 MAR 2022 01:28:12 Ref Level 30:00 dBm Offset 9:80 dB @ RBW 500 kHz Image: 25 MAR 2022 01:28:12 ScL TRG: VID Image: 25 MAR 2022 01:28:12 Image: 25 MAR 2022 01:28:12 0 DPK: CHW Image: 25 MAR 2022 01:28:12 Image: 25 MAR 2022 01:28:12 0 dBm Image: 20 dBm Image: 25 MAR 2022 01:28:12 10 dBm Image: 25 MAR 2022 01:28:12 Image: 25 MAR 2022 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dBm Image: 25 MAR 202 01:28:12 Image: 25 MAR 202 01:28:12 10 dB
Date: 25.MAR 2022 01 28 12 Spectrum Ref Level 30.00 dbm Offset 9.80 db RBW 500 kHz Att 40 db SWT 3.2 s VBW 3 MHz ScL. TRG: VID IPR Clrw Image: Clrw
Date: 28.MAR 2022 01:28:12 Spectrum Ref Level 30:00 dBm Offset 9:80 dB • RBW 500 kHz Att 40 dB • SWT 3:2 s • VBW 3 MHz ScL TRG: VID • PIR Clrw
Spectrum Image: Constraint of the second secon
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Att 40 dB SWT 3.2 s VBW 3 MH2 SGL TRG: VID IPK CIrw Image: Cirw
1Pk Crw 20 d8m 10 d8m
20 dBm.
10 dBm
-50 dBm
-60 dBm
CF 2.441 GHz 30000 pts 316.0 ms/
Date: 25. MAR 2022 01:28:18





Spectrum Control 939: CFW 930: ms YUN 3 MHz 939: CFW 921: ms 200 ms YUN 3 MHz 939: CFW 921: ms 200 ms YUN 3 MHz 939: CFW 921: ms 200 ms YUN 3 MHz 939: CFW 921: ms 200 ms 200 ms 90 dBm 921: ms 200 ms 200 ms 90 dBm 92: ms 92: ms 200 ms 90 dBm 92: ms 92: ms 92: ms 90 dBm 92: ms 92: ms 92: ms 90 dBm 92: ms 92: ms 92: ms 92: ms 90 dBm 92: ms 92: ms 92: ms 92: ms 90 dBm 92: ms 92: ms 92: ms 92: ms 92: ms 90: dBm 92: ms 92: ms 92: ms 92: ms 92: ms 92: ms 90: dBm 92: ms 90: dBm 92: ms		ODUE Anti Lian	
Ref Level 30.00 dBm Offset 9.80 db = RBW 1 MHz Sol, TRG: VID Sol, TRG: VID 9 MHz Sol, TRG: VID 9 MHz 9 MHz Sol, Sol, Obs 9 MHz 9 MHz Sol, TRG: VID 9		2DH5_Ant1_Hop	
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20 d8m 0.021 2.020 d8 10 d8m 0.021 2.020 d8 0 d8m 0.021 0.021 0 d8m 0.021 0.021 10 d8m 0.021 0.021 20 d8m 0.021 0.021 90 d8m 0.021 0.021 90 d8m 0.021 0.021 910 C1m	●1Pk Clrw	541[1]	-4.61 dBm
0 dBm 10 dBm	20 d8m-		250 ns 0.67 dB
ID dBm dB			
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CF 2.441 GHz 8000 pts 1.0 ms/ Date: 25 MAR 2022 01:86 35 Image: 25 MAR 2022 01:86 35 Image: 25 MAR 2022 01:86 35 Ref Level 30.00 dBm Offset 9.80 dB @ RBW 500 kHz Image: 25 MAR 2022 01:86 35 Att 40 dB @ SWT 3.2 s @ VBW 3 MHz SGL Trick: VID Image: 25 MAR 2022 01:86 35 Image: 25 MAR 2022 01:86 35 I dbm Image: 25 MAR 2022 01:86 35 Image: 25 MAR 2022 01:86 35 Image: 25 MAR 2022 01:86 35 I dbm Image: 25 MAR 2022 01:86 35 I dbm Image: 25 MAR 2022 01:86 35 I d dBm Image: 26 MBm I	-So dam	a a baile dina a baile da di ba alban.	ti nu fan de la transferier
Date: 25 MAR 2022 01:26:35 Spectrum Ref Level 30:00 dBm • Att 40 dB SGL TRG: VID • IPK CINV • Date: 25 MAR 2022 01:26:35 • Att 40 dB • Date: 25 MAR 2022 01:26:35 • Att 40 dB • Date: 25 MAR 2022 01:26:35 • Other State: 20 dBm • Date: 20 dBm • Date	-60 dBm		
Ref Level 30.00 dm Offset 9.80 dB, @ RBW 500 kHz Att 40 dB @ SWT 3.2 s @ VBW 3 MHz ScL TRG: VID PIPK CIrw 20 dBm 10 dBm 10 dBm <td></td> <td>8000 pts</td> <td>1.0 ms/</td>		8000 pts	1.0 ms/
Att 40 dB SWT 3.2 s VBW 3 MHZ SGL TRG: VID IPF C Crv IPF C Crv IPF C Crv IPF C Crv 20 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv 10 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv 10 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv 10 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv 20 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv 10 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -10 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -20 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -30 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -30 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -30 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -40 dBm IPF C Crv IPF C Crv IPF C Crv IPF C Crv -50 dBm IPF C Cr			Image: A state
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10 dBm	● 1Pk Clrw		-
0 dBm. TR6 -5.600 dBm Image: constraint of the second	20 dBm		
TRG -5.000 dBm -10			
-30 dBm -30 dBm -30 dBm -40 dBm -50 dBm -60	TRG -5.600 dBm		
40 dBm 10 dBm<	-20 <mark>1</mark> dBm		
-50 dBm -60 dBm CF 2.441 GHz 30000 pts 316.0 ms/			
CF 2.441 GHz 30000 pts 316.0 ms/			
	-60 dBm		
	CF 2.441 GHz Date: 25.MAR.2022 01:26:41	30000 pts	316.0 ms/



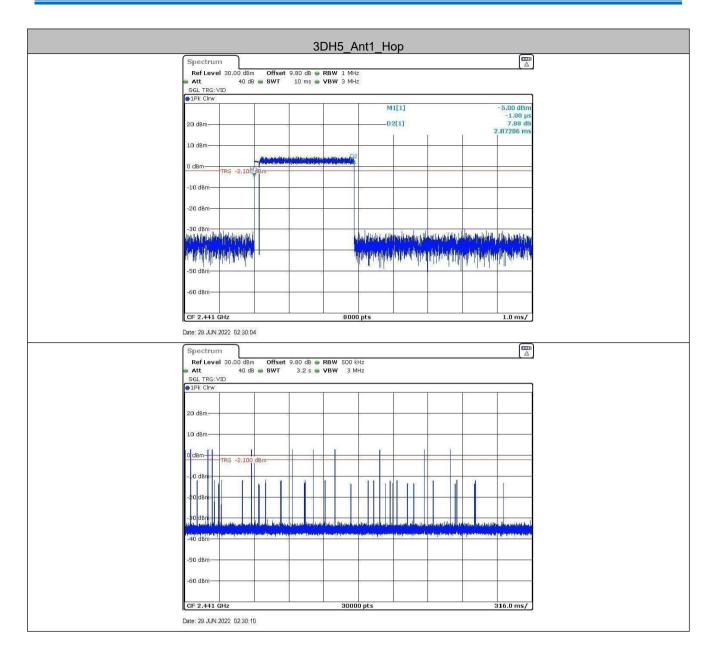
			3[DH1_A	nt1_Ho	р			
Spectrur	n								
	el 30.00 dBm		9.80 dB 👄						
Att SGL TRG:		SWT	10 ms 👄	VBW 3 MH					
IPk Clrw									
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20 dBm-					D:	2[1]			10.15 dB
							n i	r i	385.05 µs
10 dBm					-				
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0 dBm		2. 28							
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CF 2.441	GHz			8000	pts				1.0 ms/
Date: 29 UN	2022 02:30:36								
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Spectru	n								
Daftan				DDUU SOO L					(Δ)
	el 30.00 dBm		9.80 dB 👄						
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● Att SGL TRG: ●1Pk Cirw	40 dB								
● Att SGL TRG: ●1Pk Cirw	40 dB								
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● Att SGL TRG: ● IPK Cirw 20 dBm	40 dB	SWT						++++	
● Att SGL TRG: ● IPk Cirw 20 dBm 10 dBm 0 dBm	40 dB	SWT							
Att SGL TRG: PIPK Cirw 20 dBm- 10 dBm-	40 dB	SWT							
● Att SGL TRG: ● IPK CITW 20 dBm 10 dBm -10 dBm	40 dB	SWT							
● Att SGL TRG: ● 1Pk Clrw 20 dBm	40 dB	SWT							
● Att SGL TRG: ● 1Pk Clrw 20 dBm	40 dB	e SWT							
▲ Att SGL TRG: ● IPk Cirw 20 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm		SWT	3.2 5 •						
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• Att SGL TRG: • IPk Clrw 20 dBm		SWT	3.2 5 •						
• Att SGL TRG: • IPk Clrw 20 dBm	40 dB VID	SWT	3.2 5 •						16.0 ms/



	3DH3_Ant1_Hop		
Grandware	ЗЪНЗ_АПСТ_НОР		
Spectrum Ref Level 30.00 dBm Offset 9	.80 dB 🗑 RBW 1 MHz		
👄 Att 40 dB 👄 SWT	10 ms • VBW 3 MHz		
SGL TRG: VID PIPK Clrw		ī	
	M1[1]	-17.47 dBm	
20 dBm-	D2[1]	-2.25 μs 19.93 dB	
		1.62895 ms	
10 dBm			
0 dBm TRG 1.600 dBm	100002		
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-10 dBm			
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-50 dBm			
-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
Date: 29. JUN 2022 02:31:10			
Bate: 23.3514.2022 02.51.10			
Spectrum			
Ref Level 30.00 dBm Offset 9 Att 40 dB SWT	.80 dB 👄 RBW 500 kHz 3.2 s 👄 VBW 3 MHz		
SGL TRG: VID			
●1Pk Clrw			
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-40 dBm			
-50 dBm			
-60 dBm			
CF 2.441 GHz	30000 pts	316.0 ms/	
Date: 29.JUN.2022 02:31:16			









5.8 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
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.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Hopping and Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. Only the worst case is recorded in the report.
Test Results:	Pass



Shenzhen Huaxia Testing Technology Co., Ltd.

Report No.: CQASZ20230200137E-01

Measurement Data

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	-2.44	-48.44	≤-22.44	PASS
		High	2480	-4.66	-47.55	≤-24.66	PASS
DH5	Ant1	Low	Hop_2402	-6.56	-47.27	≤-26.56	PASS
		High	Hop_2480	-1.83	-46.92	≤-21.83	PASS
		Low	2402	-5.37	-48.77	≤-25.37	PASS
		High	2480	-7.20	-47.66	≤-27.2	PASS
2DH5	Ant1	Low	Hop_2402	-4.70	-48.46	≤-24.7	PASS
		High	Hop_2480	-6.43	-47.23	≤-26.43	PASS
		Low	2402	-5.37	-48.43	≤-25.37	PASS
		High	2480	-7.16	-47.64	≤-27.16	PASS
3DH5	Ant1	Low	Hop_2402	0.30	-49.03	≤-19.7	PASS
		High	Hop_2480	0.70	-47.61	≤-19.3	PASS



Test plot as follows:

				Ant1	<u></u>	102			
Spectrum									
Ref Leve Att	20.00 dBm	Offset 9.		RBW 100 kHz /BW 300 kHz		Ito EET			1 - a
Count 300		3 81 73	o lo 🗕 🖊	JUU KHZ	mode A	AU FF I			
●1Pk View		-			M1	11			-2.44 dBm
10 dBm								2.40	21740 GHz
2000 Bevolute					M2	[1]		2.40	50.69 dBm 00000 GHz
0 dBm			2	8					ľ
-10 dBm	-								
-20 dBm	D1 -22.440	dBm					-		
-30 dBm	CI CLITIC	CIE/III							
-40 dBm				M4			M3 nuthankha		Mal
v.5Q.dBm.	an frank when the	and margare	neret mart	mound	munude	that were	mit why	anutant	and low
-60 dBm									
-70 dBm									
Start 2.35	GHz			691 p	ots			Stop 3	2.405 GHz
Marker Type Re	f Trc	X-value		Y-value	Functi	on	Fund	tion Result	
M1 M2	1	2.40217	4 GHz 4 GHz	-2.44 dBm -50.69 dBm	n n				
M3 M4	1	2.3	9 GHz	-51.44 dBm	n				
Date: 24.MAR	2022 09:55:5	2.374231 8		-48.44 dBm	22.5 0				
Date: 24.MAR	2022 09:55:5	8	DH5	_Ant1_I	High_2	480			
Date: 24 MAR	2022 09:55:5	8 Offset 9.	DH5		High_2				(m) A
Date: 24 MAR Spectrun Ref Leve Att Count 300	2022 09:55:5	8 Offset 9.	DH5	_Ant1_F	High_2				
Date: 24 MAR	2022 09:55:5	8 Offset 9.	DH5	_Ant1_F	High_2	uto FFT			-4.66 dBm
Date: 24 MAR Spectrun Ref Leve Att Count 300	2022 09:55:5	8 Offset 9.	DH5	_Ant1_F	High_2 Mode A	uto FFT		2.4	
Date: 24 MAR Spectrum Ref Leve Att Count 300 IPk View	2022 09:55:5	8 Offset 9.	DH5	_Ant1_F	High_2	uto FFT		2.4	-4.66 dBm 79780 GHz
Date: 24 MAR Spectrum Reference Att Count 300 ID dBm	2022 09:55:5	8 Offset 9.	DH5	_Ant1_F	High_2 Mode A	uto FFT		2.4	-4.66 dBm 79780 GHz 50.75 dBm
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 PIPk View 10 dBm	2022 09:55:5	8 Offset 9.	DH5	_Ant1_F	High_2 Mode A	uto FFT		2.4	-4.66 dBm 79780 GHz 50.75 dBm
Date: 24 MAR Spectrum Reference Att Count 300 ID dBm	2022 09 55:5 1 20.00 dbm /300	8 Offset 9. SWT 9	DH5	_Ant1_F	High_2 Mode A	uto FFT		2.4	-4.66 dBm 79780 GHz 50.75 dBm
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 PIPk View 10 dBm	2022 09:55:5	8 Offset 9. SWT 9	DH5	_Ant1_F	High_2 Mode A	uto FFT		2.4	-4.66 dBm 79780 GHz 50.75 dBm
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 1Pk View 10 dBm- -10 dBm- -20 dBm-	2022 09 55:5 1 20.00 dbm /300	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • V	Ant1_I	High_2 Mode A M1 M2	uto FFT		2.4	-4.66 dBm 79780 GHz 50.75 dBm
Date: 24 MAR Date: 24 MAR Spectrum Ref Leve Att Count 300 I D dBm	2022 03 55.5 1 20.00 dBm 30 dB 1 20.00 dBm 	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • \	_Ant1_F	High_2 Mode A M1 M2	Ito FFT		2.4	-4.66 dBm 79780 GHz 83500 GHz
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 D dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm	2022 09 55 5 1 20.00 dBm 30 dB /300	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • V	Ant1_I	High_2 Mode A M1 M2	uto FFT		2.4	-4.66 dBm 79780 GHz 50.75 dBm
Date: 24 MAR Date: 24 MAR Spectrum Ref Leve Att Count 300 I D dBm	2022 03 55.5 1 20.00 dBm 30 dB 1 20.00 dBm 	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • \	Ant1_I	High_2 Mode A M1 M2	Ito FFT		2.4	-4.66 dBm 79780 GHz 83500 GHz
Date: 24 MAR Date: 24 MAR Ref Leve ▲ Att Count 300 ● IPk View 10 dBm	2022 03 55.5 1 20.00 dBm 30 dB 1 20.00 dBm 	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • \	Ant1_I	High_2 Mode A M1 M2	Ito FFT		2.4	-4.66 dBm 79780 GHz 83500 GHz
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 I dbm	2022 03 55.5	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • \	Ant1_I	High_2 Mode A M1 M2	Ito FFT		2.4 - 2.1	-4.66 dBm 79780 GHz 50.75 dBm 83500 GHz
Date: 24 MAR	2022 03 55.5 1 20.00 dBm 30 dB //300 	8 Offset 9. SWT 9	DH5 80 dB • F 4.8 µs • \	Ant1_I	High_2 Mode A M1 M2	Ito FFT		2.4 - 2.1	-4.66 dBm 79780 GHz 83500 GHz
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	2022 03 55.5	8 Offset 9. SWT 9 dBm	DH5 80 dB • F 4.8 µs • \ 	Ant1_H	High_2 Mode A M1 M2	10 FFT		2.4 - 2.1	-4,66 dBm 79780 GHz 50.75 dBm 83500 GHz
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 I dBm -0 dBm -0 dBm -0 dBm -20 dBm -30 dBm -40 dBm -40 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	2022 03 55.5	8 Offset 9, SWT 9 dBm dBm X-volue 2,4797 2,449	DH5 80 dB — F 9.8 µs —	Ant1_H	High_2 Mode A M1 M2	10 FFT		2.4 - 2.4 	-4,66 dBm 79780 GHz 50.75 dBm 83500 GHz
Date: 24 MAR Date: 24 MAR Ref Leve Att Count 300 Date: 24 MAR Count 300 Date: 24 MAR Att Count 300 Date: 24 MAR 10 dBm- -20 dBm- -30 dBm- -30 dBm- -30 dBm- -70 dBm-	2022 03 55.5 1 20.00 dBm 30 dB 1 20.00 dBm 1 20.00 dBm 30 dB 1 20.00 dBm 1 20.00 dBm 30 dB 1 20.00 dBm 1 20.00	8 Offset 9, SWT 9 dBm dBm X-volue 2,4797 2,449	B0 dB = F 4.8 µs 4.8 µs 5 6Hz 5	Ant1_I REW 100 kHz //BW 300	High_2 Mode A M1 M2	10 FFT		2.4 - 2.4 	-4,66 dBm 79780 GHz 50.75 dBm 83500 GHz



DH5_Ant1_Low_Hop_2402			
Spectrum			
Ref Level 20.00 dBm Offset 9.84 dB 🖷 RBW 100 kHz	<u> </u>		
Att 30 dB SWT 75.8 µs VBW 300 kHz Mode Auto FFT			
Count 300/300 P1Pk View	-		
●1PK VIBW M1[1] -6.56 dBn	m		
10 dom 2.4028910 GHz	Hz		
M2[1] -51.31 dBn 2.400000 GH			
0 dBm M1	12		
-10 dBm			
-20 dBm	1		
-30 dBm-			
-40 dBm M4 M3 M2	L.		
59adBarrytur market and the market a	1		
-60 dBm	1		
-70 dBm-	-1		
	1		
Start 2.35 GHz 691 pts Stop 2.405 GHz	z		
Marker Type Ref Trc X-value Y-value Function Function Result			
Type Ref Trc X-value Y-value Function Function Result M1 1 2.402891 GHz -6.56 dBm -6.56 d	-		
M2 1 2.4 GHz -51.31 dBm			
M3 1 2.39 GHz -51.46 dBm			
M4 1 2.3596841 GHz -47.27 dBm Date: 24 MAR 2022 10 16:20			
M4 1 2.3598841 GHz -47.27 dBm Date: 24 MAR 2022 10 16:20 DH5_Ant1_High_Hop_2480			
M4 1 2.3596841 GHz -47.27 dBm Date: 24 MAR 2022 10 16:20			
M4 1 2.3599841 GHz -47.27 dBm Date: 24 MAR 2022 10 16:20 DH5_Ant1_High_Hop_2480 Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT			
M4 1 2.3598841 GHz -47.27 dBm Date: 24.MAR 2022 10 16:20 DH5_Ant1_High_Hop_2480 Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz			
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M4 1 2.3596841 GHz -47.27 dBm Date: 24 MAR 2022 10 16:20 DH5_Ant1_High_Hop_2480 Spectrum Ref Level 20.00 dBm Offset 9.80 dB @ RBW 100 Hz Att 30 dB @ WT 94.8 µS @ VBW 300 Hz Mode Auto FFT Count 300/300 M1[1] -1.83 dBm 10 dBm M1[1] 2.480130 GHz M1[1] 2.480500 GHz 0 dBm M1 M1[1] 2.489500 GHz	m Hz m		
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M4 1 2.3598841 GHz -47.27 dBm Date: 24.MAR 2022 10.16.20 DH5_Ant1_High_Hop_2480 Employed and the second a	m +z +z		
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2DH5 Ant1 Low 2402	
Spectrum	
Ref Level 20.00 dBm Offset 9.84 dB RBW 100 kHz	
👄 Att 30 dB SWT 75.8 μs 👄 VBW 300 kHz Mode Auto FFT	
Count 300/300 IV View	
M1[1] -	5.37 dBm
	8560 GHz 0.69 dBm
0 d8m	0000 GHz
	ň
-10 dBm	
-20 dBm-	
-30 dBm	
-40 dBm M3	
Ma Ma Martin and and and and and and and and and an	- ha
-60 dBm	
-70 dBm	
-/0 uulii	
Start 2.35 GHz 691 pts Stop 2.	.405 GHz
Marker	
Type Ref Trc X-value Y-value Function Function Result M1 1 2.401856 GHz -5.37 dBm -5.37 d	
M2 1 2.4 GHz -50.69 dBm M3 1 2.39 GHz -50.42 dBm	
M4 1 2.3602826 GHz -48.77 dBm	
Date: 24.MAR 2022 10:02:47	
2DH5_Ant1_High_2480	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB • RBW 100 kHz	
👄 Att 30 dB SWT 94.8 μs 👄 VBW 300 kHz Mode Auto FFT	
Count 300/300 1Pk View	
M1[1] -	7.20 dBm
	9780 GHz 0.88 dBm
2.48	3500 GHz
Mi	
-10 dBm	
-20 dBm	
-30 dBm	
-40 dBm - V M2 M2 M3 W1 where the set of the	
1050 all man bran way the and the way the hard the work way to be the the the the the the the the the th	and the second se
-60 dBm	
-70 dBm	
	2.55 GHz
Start 2.47 GHz 691 pts Stop 2 Marker	2.55 GHz
Start: 2.47 GHz 691 pts Stop : Marker Type Ref Trc X-value Y-value Function Function Result	2.55 GHz
Start 2.47 GHz 691 pts Stop : Marker Trc X-value Function Function Result M1 1 2.47978 GHz -7.20 dBm Function Function Result M2 1 2.4835 GHz -50.08 dBm Function Function Result	2.55 GHz
Start 2.47 GHz 691 pts Stop 2 Marker	2.55 GHz



		2DH5	Ant1 Lov	w_Hop_24	02	
Spectrur	n					
Ref Leve	20.00 dBm	Offset 9.84 dB				[4]
 Att Count 300 		зWT 75.8 µs	• VBW 300 kHz	Mode Auto FFT		
1Pk View		1				
				M1[1]	2.4	-4.70 dBm 019360 GHz
10 dBm			-	M2[1]		-51.22 dBm
0 dBm			2	1	2.4	000000 GHz
-10 dBm						MALAN
Press National States						1000
-20 dBm—	D1 -24.700 dE	200				
-30 dBm	D1 -24.700 UL	211				
in the state						
-40 dBm				M.	4 M3	ma
1-50.depar	and work where	the man	and agreed the bear	uninantent	to many and the reader	
-60 dBm						
-70 dBm						
Start 2.35	GHz		691 pts	s	Ston	2.405 GHz
Marker			ovi pre		atop	
Type R	ef Trc	X-value	Y-value	Function	Function Resu	t 🔤
M1 M2	1	2.401936 GHz 2.4 GHz	-4.70 dBm -51.22 dBm			
M3	1	2.39 GHz	-50.87 dBm			
100	2					
M4	1	2.3873043 GHz 2DH5	-48.46 dBm	ih Hop 24	.80	
M4 Date: 25 MAF Spectrur Ref Levi	1 2022 01:23:16 m el 20.00 dBm	2DH5 Offset 9.80 dB	Ant1_Hig	h_Hop_24	.80	
M4 Date: 25 MAF Spectrur Ref Leve Att Count 300	1 2.2022 01:23:16 n 20.00 dBm 30 dB	2DH5 Offset 9.80 dB	_Ant1_Hig		.80	
Spectrur Ref Leva Att	1 2.2022 01:23:16 n 20.00 dBm 30 dB	2DH5 Offset 9.80 dB	Ant1_Hig	Mode Auto FFT	.80	
M4 Date: 25 MAF Ref Leve Att Count 300 ●1Pk View	1 2.2022 01:23:16 n 20.00 dBm 30 dB	2DH5 Offset 9.80 dB	Ant1_Hig			-6.43 dBm
M4 Date: 25 MAF Spectrur Ref Leve Att Count 300	1 2.2022 01:23:16 n 20.00 dBm 30 dB	2DH5 Offset 9.80 dB	Ant1_Hig	Mode Auto FFT	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25 MAF Ref Leve Att Count 300 ●1Pk View	1 2.2022 01:23:16 n 20.00 dBm 30 dB	2DH5 Offset 9.80 dB	Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm	1 2.2022 01:23:16 22.000 dBm 30 dB //300	2DH5 Offset 9.80 dB	Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25 MAF Ref Leva Att Count 300 IPk View 10 dBm- p dBm- JW dBm-	1 2.2022 01:23:16 22.000 dBm 30 dB //300	2DH5 Offset 9.80 dB	Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm	1 2.2022 01:23:16 2.2022 01:23:16 2.2020 01:23:16 2.2020 08 30 08 7/300	2DH5 offset 9.80 dB swT 94.8 µs	Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25.MAF Ref Levy At Count 300 IPK View 10 dBm -20 dBm -20 dBm	1 2.2022 01:23:16 22.000 dBm 30 dB //300	2DH5 offset 9.80 dB swT 94.8 µs	Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25 MAF Ref Levi Att Count 300 IPK View 10 dBm 0 dBm -20 dBm -30 dBm	1 2.2022 01:23:16 2.2022 01:23:16 2.2020 01:23:16 2.2020 08 30 08 7/300	2DH5 offset 9.80 dB swT 94.8 µs	Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25.MAF Ref Levy At Count 300 IPK View 10 dBm -20 dBm -20 dBm	1 2.2022 01:23:16 12:20.00 dBm 20:00	2DH5, offset 9.80 dB SWT 94.8 µs	_Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25 MAF Ref Levi Att Count 300 IPK View 10 dBm 0 dBm -20 dBm -30 dBm	1 2.2022 01:23:16 2.2022 01:23:16 2.2020 01:23:16 2.2020 08 30 08 7/300	2DH5, offset 9.80 dB SWT 94.8 µs	_Ant1_Hig	Mode Auto FFT M1[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm- p dBm- -20 dBm- -30 dBm- -40 dBm-	1 2.2022 01:23:16 2.2022 01:23:16 2.2020 dBm 30 dB 30 dB 30 dB 1.20000 1.20000 1.2000	2DH5 оffset 9.80 dB swr 94.8 µs	_Ant1_Hig	Mode Auto FFT M1[1] M2[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm p dBm -30 dBm -40 dBm	1 2.2022 01:23:16 2.2022 01:23:16 2.2020 dBm 30 dB 30 dB 30 dB 1.20000 1.20000 1.2000	2DH5 оffset 9.80 dB swr 94.8 µs	_Ant1_Hig	Mode Auto FFT M1[1] M2[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm- p dBm- -20 dBm- -30 dBm- -40 dBm-	1 2.2022 01:23:16 2.2022 01:23:16 2.2020 dBm 30 dB 30 dB 30 dB 1.20000 1.20000 1.2000	2DH5 оffset 9.80 dB swr 94.8 µs	_Ant1_Hig	Mode Auto FFT M1[1] M2[1]	2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25.MAF Ref Levy Att Count 300 • LPK View 10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -70 dBm	1 2.2022 01:23:16 20.00 dBm 30 dB 7300	2DH5 оffset 9.80 dB swr 94.8 µs	_Ant1_Hig	Mode Auto FFT	2. 2.	-6.43 dBm 470060 CH2 -50.92 dBm 483500 GH2
M4 Date: 25.MAF Date: 25.MAF Count 300 ● 1Pk View 10 dBm 0 dBm 0 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -70 dBm	1 2.2022 01:23:16 20.00 dBm 30 dB 7300	2DH5 оffset 9.80 dB swr 94.8 µs	_Ant1_Hig	Mode Auto FFT	2. 2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm- p dBm- -20 dBm- -30 dBm- -30 dBm- -50 dBm- -50 dBm- -70 dBm- -70 dBm- -70 dBm-	1 2.2022 01:23:16 22:002 01:23:16 20:00 dBm 30 dB 30 d	2DH5 offset 9.80 dB swT 94.8 µs	Ant1_Hig	Mode Auto FFT M1[1] M2[1] Autoreted and process S	2. 2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm p dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm Start 2.47 Marker Type IR	2.2022 01:23:16 2.2022 01:23:16 2.2020	2DH5	Ant1_Hig RBW 100 HHz VBW 300 kHz 43 43 43 43 44 43 43 44 43 44 43 44 43 44 43 44 44	Mode Auto FFT	2. 2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25.MAF Ref Levy Alt Count 300 ● IPK View 10 dBm p dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm Type [Ref Marker Type [Ref Marker Marker Marker Marker Marker Marker Marker Marker Marker	1 2.2022 01:23:16 22.022 01:23:16 22.020 dBm 30 dB 30	2DH5 offset 9.80 dB SWT 94.8 µs 	Ant1_Hig	Mode Auto FFT	2. 2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz
M4 Date: 25 MAF Ref Leve Att Count 300 1Pk View 10 dBm p dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm Start 2.47 Marker Type IR	2.2022 01:23:16 2.2022 01:23:16 2.2020 01:25:16 2.2020	2DH5	Ant1_Hig RBW 100 HHz VBW 300 kHz 43 43 43 43 44 43 43 44 43 44 43 44 43 44 43 44 44	Mode Auto FFT	2. 2.	-6.43 dBm 470060 GHz -50.92 dBm 483500 GHz



		2	3DH5 Ant1	Low 2402			
Spectru	m						a)
10.00	el 20.00 dBm	Offset 9.84	dB 🖷 RBW 100 kHz				<u>.</u>
 Att Count 30 	30 dB	SWT 75.8	µs 🖷 VBW 300 kHz	Mode Auto FFT			
1Pk View							ר
				M1[1]		-5.37 dBi 2.4021740 GF	
10 dBm				M2[1]		-49.30 dBr	n
0 dBm				and a market	1 1	2.4000000 GH	z
						M.	
-10 dBm-							1
-20 dBm-							-
-30 dBm-	D1 -25.370	dBm	-				1
						N Is	
-40 dBm-					M4	MP	1
~50~dBm=	Luntrounne	www.whenewer	montenentro	amandaharan	M3	thousand	
-60 dBm-							4
-70 dBm-	1						1
Start 2.5	5 6Hz	0	691 p	ut c	0	Stop 2.405 GHz	5
Marker			091				
Type I M1	ef Trc	X-value 2.402174 G	Y-value Hz -5.37 dBn	Function	Functi	on Result	1
M2	1	2.4 G	Hz -49.30 dBn	n			
M3	1	2.39 G	Hz -51.91 dBn Hz -48.43 dBn				_
M4							
Date: 24 MP	1 R.2022 10:10:0	6					
Date: 24.MA	R.2022 10:10:0	6	DH5_Ant1_	_High_2480		(III)	ل ا
Date: 24.MA	R.2022 10:10:0	6 3 Offset 9.80	DH5_Ant1_	High_2480			2
Date: 24.MA Spectru Refue Att Count 30	R.2022 10:10:0 m el 20.00 dBm 30 dB 0/300	6 3 Offset 9.80	DH5_Ant1_	High_2480		(E	
Date: 24.MA Spectru Ref Lev	R.2022 10:10:0 m el 20.00 dBm 30 dB 0/300	6 3 Offset 9.80	DH5_Ant1_	High_2480			-]
Date: 24 MA Spectru Ref Lev Att Count 30 0 JPK Viev	R.2022 10:10:0 m el 20.00 dBm 30 dB 0/300	6 3 Offset 9.80	DH5_Ant1_	High_2480 Mode Auto FFT M1[1]		-7.16 dBi 2.479780 GF	n
Date: 24.MA Spectru Ref Les Att Count 31 ● IPk View 10 dBm-	R.2022 10:10:0 m el 20.00 dBm 30 dB 0/300	6 3 Offset 9.80	DH5_Ant1_	High_2480		-7.16 dBr 2.479780 GF -50.64 dBr	n z n
Date: 24 MA Spectru Ref Lev Att Count 30 0 JPK Viev	R 2022 10:10:0	6 3 Offset 9.80	DH5_Ant1_	High_2480 Mode Auto FFT M1[1]		-7.16 dBi 2.479780 GF	n z n
Date: 24.MA Spectru Ref Les Att Count 31 ● IPk View 10 dBm-	R.2022 10:10:0	6 3 Offset 9.80	DH5_Ant1_	High_2480 Mode Auto FFT M1[1]		-7.16 dBr 2.479780 GF -50.64 dBr	n z n
Date: 24.MA Spectru Ref Lee Att Count 30 IPk Viev 10 dBm -10 dBm	R 2022 10:10:0	6 3 Offset 9.80	DH5_Ant1_	High_2480 Mode Auto FFT M1[1]		-7.16 dBr 2.479780 GF -50.64 dBr	n z n
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Date: 24.MA Spectru Ref Lee Att Count 30 IPk Viev 10 dBm -10 dBm	R 2022 10:10:0	5 Offset 9.80 SWT 94.8	DH5_Ant1_	High_2480 Mode Auto FFT M1[1]		-7.16 dBr 2.479780 GF -50.64 dBr	n z n
Date: 24.MA Spectru Ref Lev Att Count 30 PPk Vieu 10 dBm 0 dBm -10 dBm -20 dBm	R 2022 10.10.0	5 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480 Mode Auto FFT M1[1]		-7.16 dBr 2.479780 GF -50.64 dBr	n z n
Date: 24.MA Date: 24.MA Spectru: Ref Lev Att Count 33 ● IPk View 10 dBm 0 dBm -20 dBm -30 dBm -40 dBm	R 2022 10.10.0	6 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 GF -50.64 dBi 2.483500 GF	n z n
Date: 24.MA Date: 24.MA Ref Lex Att Count 33 ● IPk View 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -59.48m	R 2022 10.10.0	6 Offset 9.80 SWT 94.8	BDH5_Ant1_ dB = RBW 100 kHz ps = VBW 300 kHz	High_2480 Mode Auto FFT M1[1]		-7.16 dBr 2.479780 GF -50.64 dBr	n z n
Date: 24.MA Date: 24.MA Spectru: Ref Lev Att Count 33 ● IPk View 10 dBm 0 dBm -20 dBm -30 dBm -40 dBm	R 2022 10.10.0	6 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 GF -50.64 dBi 2.483500 GF	n z n
Date: 24.MA Date: 24.MA Ref Let • Att Count 30 ● 1Pk Viev 10 dBm	R 2022 10.10.0	6 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 GF -50.64 dBi 2.483500 GF	n z n
Date: 24.MA Date: 24.MA Ref Lex Att Count 33 ● IPk View 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -59.48m	R 2022 10.10.0	6 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 GF -50.64 dBi 2.483500 GF	n z n
Date: 24.MA Date: 24.MA Ref Let • Att Count 30 ● 1Pk Viev 10 dBm	R 2022 10.10.0 m el 20.00 dBm 30 dB 0/300 / M1 M1 M1 M1 M1 M2 W M2 W M2 W	6 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 GF -50.64 dBi 2.483500 GF	n z n z
Date: 24.MA Date: 24.MA Spectru Ref Lex Att Count 30 ● IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -59.48m -50 dBm -70 dBm -70 dBm Start 2.4 Marker	R 2022 10.10.0	6 Offset 9.80 SWT 94.8	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 Ch -50.64 dBi 2.483500 Gh	n z n z
Date: 24.MA Date: 24.MA Spectru Ref Les • TPK View 10 dBm 0 dBm • 10 dBm • 10 dBm • 20 dBm • 30 dBm • 40 dBm • 59.48m • 50.48m • 70 dBm • 70 dBm • 70 dBm • 70 dBm • 70 dBm	R 2022 10 10.0	6 Offset 9.80 SwT 94.8 dBm dBm dBm z-volue z.47978 c	BDH5_Ant1_	High_2480		-7.16 dBi 2.479780 GH -50.64 dBi 2.483500 GH	n z n z
Date: 24.MA Date: 24.MA Spectru: Ref Lev Att Count 37 ● 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm Type I M1 M2	R 2022 10.10.0 rm el 20.00 dBm 30 0B 0/300 M1 M1 M2 0 .27.160 A V A V A V A V A V A V A V A V	6 Offset 9.80 SwT 94.8 dBm dBm X-volue 2.47978 0 2.47978 0 2.47978 0	BDH5_Ant1_ dB = RBW 100 kHz bs = VBW 300 kHz vBW 300 kHz M3 M4 M3 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M3 M4 M4 M3 M4 M3 M4 M4 M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	High_2480		-7.16 dBi 2.479780 Ch -50.64 dBi 2.483500 Gh	n z n z
Date: 24.MA Date: 24.MA Spectru Ref Les • TPK View 10 dBm 0 dBm • 10 dBm • 10 dBm • 20 dBm • 30 dBm • 40 dBm • 59.48m • 50.48m • 70 dBm • 70 dBm • 70 dBm • 70 dBm • 70 dBm	R 2022 10 10.0	6 Offset 9.80 SwT 94.8 dBm dBm dBm z-volue z.47978 c	BDH5_Ant1_ dB RBW 100 kHz µs VBW 300 kHz M3 M4 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M3 M4 M4 M3 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M3 M4 M4 M4 M3 M4 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	High_2480		-7.16 dBi 2.479780 Ch -50.64 dBi 2.483500 Gh	n z n z



		3D	лэа	nt1_Low				
Spectru	n							
Ref Lev	el 20.00 dBm	Offset 9.8	4 dB 🖷 RB	3W 100 kHz				L ^Δ .
🖷 Att	30 dB	SWT 75.	.8 µs 👄 VB	3W 300 kHz 1	Mode Auto FFT			
Count 30	J/3U0							
					M1[1]		0007	0.30 dBm
10 dBm					MIRENI		2.40	21740 GHz 51.31 dBm
protest approximately					M2[1]		2.400	00000 GHz
0 dBm		č.,	2	÷				MMA
-10 dBm								10.14.00
-20 d8m-	D1 -19.700	dBm						
-20 0811	01 -19.700	UBIII						
-30 dBm		38		0.		2		
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1274-02403286-04		_	M4			MB		12
~50,dBmar	menopourt	mynum	Vourter these	www.www.www.	whenwhen		www.www.	30
-60 dBm				2	8		-	
-70 dBm—		10						
Start 2.3	CH2	8	8	691 pts	6		Stor	.405 GHz
Start 2.3. Marker				091 b(2			stop 2	.+03 GHZ
Type R	ef Trc	X-value		Y-value	Function	Fund	tion Result	
M1 M2	1	2.402174	GHz GHz	0.30 dBm -51.31 dBm				
	1	2.9		-50.40 dBm				
M3				30,40 0000				
M4	2022 02:28:11	2.369529	GHz	-49.03 dBm	1_Hop_24	180		
Date: 23.J.N Spectrum	1 2022 02:28:11	2.369529 3D	GHz H5_Ar	-49.03 dBm	1_Hop_24	180		
Date: 29 JUN Spectru Ref Lev	1 2022 02:28:11 n 21 20.00 dBm	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm		180		
Date: 23.J.N Spectrum	1 2022 02:28:11 11 21 20.00 dBm 30 dB	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm	1_Hop_24	180		
Date: 23 JUN Date: 23 JUN Ref Levr Att	1 2022 02:28:11 11 21 20.00 dBm 30 dB	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT	180		
M4 Date: 29 JUN Spectrum Ref Lev. Att Count 30 PIPk View	1 2022 02:28:11 11 21 20.00 dBm 30 dB	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm		180	2.4	0.70 dBm
Spectrui Ref Lev Att Count 30	1 2022 02:28:11 11 21 20.00 dBm 30 dB	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT	180	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JUN Ref Lev Att Count 30 10 dsm-	1 2022 02:28:11 20.00 dBm 30 dB 3/300	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]	180	-!	0.70 dBm 78970 GHz
M4 Date: 29 JUN Ref Lev Att O DBM 0 DBM 0 dBm V, 40	1 2022 02:28:11 20.00 dBm 30 dB 3/300	2.369529 3D Offset 9.8	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]	180	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JUN Ref Lev Att Count 30 10 dsm-	1 2022 02:28:11 al 20.00 dBm 30 dB 3/300	2.369529 3D Offset 9.8 Swr 94.	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]	180	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JUN Ref Lev Att O DBM 0 DBM 0 dBm V, 40	1 2022 02:28:11 20.00 dBm 30 dB 3/300	2.369529 3D Offset 9.8 Swr 94.	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]	180	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JJN Ref Lev Count 30 IPk View 10 dBm -10 dBm -20 dBm	1 2022 02:28:11 al 20.00 dBm 30 dB 3/300	2.369529 3D Offset 9.8 Swr 94.	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]	480	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JUN Spectrum Ref Lev. Att Count 30 ● 1Pk View 10 dBm -0 dBm -20 dBm -30 dBm	1 2022 02:28:11 al 20.00 dBm 30 dB 3/300	2.369529 3D Offset 9.8 Swr 94.	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]	180	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JJN Spectrui Ref Lev. Att Count 30 ● 1Pk View 10 dBm -10 dBm -20 dBm-	1 2022 02:28:11 2022 02:28:11 200 d8m 21 20:00 d8m 2/300 01 -19:300	2.369529 3D Offset 9.8 Swr 94.	GH2 H5_Ar	-49.02 dBm	Mode Auto FFT M1[1]	180	-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29 JUN Spectrum Ref Lev. ● Att Count 30 ● 1Pk View 10 dBm- 0 dBm -20 dBm- -30 dBm-	1 2022 02:28:11 2022 02:28:11 al 20:00 dBm 30 dB 1/300 41 -19:300	2.369529 3D Offset 9.8 SWT 94.	GH2 H5_Ar	-49.03 dBm	Mode Auto FFT M1[1]		-!	0.70 dBm 78970 GHz 51.59 dBm
M4 Date: 29.J.N Ref Levi Att Count 300 ● 1Pk View 10 dBm- 0 dBm- -10 dBm- -30 dBm- -40 dBm- -50 dBm-	1 2022 02:28:11 2022 02:28:11 al 20:00 dBm 30 dB 1/300 41 -19:300	2.369529 3D Offset 9.8 Swr 94.	GHZ	-49.02 dBm	Mode Auto FFTM1[1]M2[1]M2[1]M2[1]		2.4	0,70 dBm 78970 GHz 7.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Lev Att Count 30 10 dBm 0 dBm -10 dBm -20 dBm -40 dBm- -40 dBm	1 2022 02:28:11 2022 02:28:11 al 20:00 dBm 30 dB 1/300 41 -19:300	2.369529 3D Offset 9.8 SWT 94.	GHZ	-49.02 dBm	Mode Auto FFTM1[1]M2[1]M2[1]M2[1]		2.4	0,70 dBm 78970 GHz 7.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Lev. Ref Lev. Att Count 300 ●1Pk View 10 dBm- 0 dBm- -10 dBm- -30 dBm- -50 dBm-	1 2022 02:28:11 2022 02:28:11 al 20:00 dBm 30 dB 1/300 41 -19:300	2.369529 3D Offset 9.8 SWT 94.	GHZ H5 Ar	-49.02 dBm	Mode Auto FFTM1[1]M2[1]M2[1]M2[1]		2.4	0,70 dBm 78970 GHz 7.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Levi Ref Levi Att Count 300 IPR View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	1 2022 02:28:11 2022 02:28:11 al 20:00 dBm 30 dB 1/300 41 -19:300	2.369529 3D Offset 9.8 SWT 94.	GHZ H5 Ar	-49.02 dBm	Mode Auto FFTM1[1]M2[1]M2[1]M2[1]		2.4	0,70 dBm 78970 GHz 7.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Levi Ref Levi Att Count 300 IPR View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm	1 2022 02-28:11 2022 02-28:11 a) 20:00 dBm a) 20:00 dBm y300 M1 01 -19:300 M2 M2 M2 M2 M2 M2 M2 M2 M2 M2	2.369529 3D Offset 9.8 SWT 94.	GHZ H5 Ar	-49.02 dBm	Mode Auto FFTM1[1]M2[1]M2[1]M2[1]		 2.41	0,70 dBm 78970 GHz 7.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Lev. Ref Lev. Att Count 300 ● 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm Btart 2.4'	1 2022 02:28:11 2022 02:28:11 30 dB 30 dB	2.369529 3D Offset 9.8 SWT 94.	GHZ H5_Ar 0 dB • RB 8 µs • VB	-49.02 dBm	Mode Auto FFT	hear you way	 2.41 بالمروجودلية کلوم	0,70 dBm 78970 GHz 1.59 dBm 33500 GHz
M4 Date: 23 JUN Ref Lev. Att Court 30 I PR View 10 dBm -0 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm -30 dBm	1 2022 02.28.11 2022 02.28.11 2022 02.28.11 2020 d8m 20 d	2.369529 3D Offset 9.8 SWT 94. dBm	GHz H5_Ar ю dB • RB 8 µs • VB	-49.03 dBm	Mode Auto FFTM1[1]M2[1]M2[1]M2[1]	hear you way	 2.41	0,70 dBm 78970 GHz 1.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Lev. Ref Lev. Att Count 300 ● 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -60 dBm -70 dBm Btart 2.4'	1 2022 02.28.11 2022 02.28.11 2022 02.28.11 2022 02.28.11 2020 dBm 20 dB	2.369529 3D Offset 9.8 SWT 94.	GHZ H5_Ar 0 dB RB 8 µs VB VB M3 GHZ	-49.02 dBm	Mode Auto FFT	hear you way	 2.41 بالمروجودلية کلوم	0,70 dBm 78970 GHz 1.59 dBm 33500 GHz
M4 Date: 29 JUN Ref Levi Att Count 300 ● IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -50 dBm -70 dBm Warker Type I Marker Type I	1 2022 02.28.11 2022 02.28.11 2020 02.11 2020 02.11 2020 02.11 2020 02.11 2020 02.11 202	2.369529 3D Offset 9.8 SWT 94. dBm dBm	GHZ 0 dB RB 8 µs VB 0 dB VB 0 dB RB 8 µs VB 0 dB GHZ 0 dB GHZ 0 dHZ 0 dB GHZ	-49.03 dBm	Mode Auto FFT	hear you way	 2.41 بالمروجودلية کلوم	0,70 dBm 78970 GHz 1.59 dBm 33500 GHz



5.9 Spurious RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
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.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.
Test Results:	Pass



