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

# **Test Report**

Report No. : Applicant: Address of Applicant:	CQASZ20220300390E-01 Chervon(China)Trading Co., Ltd No.99 Tianyuan West Road, Jiangning Economic & Technical Development Zone, nanjing, jiangsu, China
Equipment Under Test (E	UT):
Product:	Bluetooth Speaker
Model No.:	241-0346, C1007
Test Model No.:	241-0346
Brand Name:	FLEXPOWER MASTEREDRCE
FCC ID:	YWKC1007
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2022-03-22
Date of Test:	2022-03-22 to 2022-03-28
Date of Issue:	2022-07-21
Test Result :	PASS*

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

Tested By:	lewis zhou	PTI -
	( Lewis Zhou )	and the second
Reviewed By:	K. Liao	
	( K Liao )	
Approved By:	Jamos	APPR
	( 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
CQASZ20220300390E-01	Rev.01	Initial report	2022-07-21



# 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	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 (2013)	PASS
Radiated Spurious emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 (2013)	PASS



# 3 Contents

1 VERSION	2
2 TEST SUMMARY	3
3 CONTENTS	4
4 GENERAL INFORMATION	5
4.1 CLIENT INFORMATION	
4.2 GENERAL DESCRIPTION OF EUT	
4.3 Additional Instructions	
4.4 Test Environment	
4.5 DESCRIPTION OF SUPPORT UNITS	
4.6 STATEMENT OF THE MEASUREMENT UNCERTAINTY	
4.7 TEST LOCATION	
4.8 TEST FACILITY	
4.9 ABNORMALITIES FROM STANDARD CONDITIONS	
4.10 Other Information Requested by the Customer	
4.11 Equipment List	
5 TEST RESULTS AND MEASUREMENT DATA	
5.1 ANTENNA REQUIREMENT	
5.2 Conducted Emissions	
5.3 CONDUCTED PEAK OUTPUT POWER	
5.4 20dB Occupy Bandwidth	
5.5 CARRIER FREQUENCIES SEPARATION	
5.6 Hopping Channel Number	
5.7 Dwell Time	
5.8 BAND-EDGE FOR RF CONDUCTED EMISSIONS	
5.9 Spurious RF Conducted Emissions	
5.10 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM	
5.11 RADIATED SPURIOUS EMISSION & RESTRICTED BANDS	
5.11.1 Radiated Emission below 1GHz	
5.11.2 Transmitter Emission above 1GHz	
6 PHOTOGRAPHS - EUT TEST SETUP	
6.1 Radiated Emission	
6.2 Conducted Emission	
7 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	



# 4 General Information

# 4.1 Client Information

Applicant:	Chervon(China)Trading Co., Ltd
Address of Applicant:	No.99 Tianyuan West Road, Jiangning Economic & Technical Development Zone, nanjing, jiangsu, China
Manufacturer:	Chervon(China)Trading Co., Ltd
Address of Manufacturer:	No.99 Tianyuan West Road, Jiangning Economic & Technical Development Zone, nanjing, jiangsu, China
Factory:	Chervon(China)Trading Co., Ltd
Address of Factory:	No.99 Tianyuan West Road, Jiangning Economic & Technical Development Zone, nanjing, jiangsu, China

# 4.2 General Description of EUT

Product Name:	Bluetooth Speaker
Model No.:	241-0346, C1007
Test Model No.:	241-0346
Trade Mark:	FLEXPOWER MASTER DRCE
Software Version:	1.0
Hardware Version:	1.0
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 □ Portable □ Fix Location
Test Software of EUT:	MV_AP82xx_BP10xx_PC_Tools_V2.2.15
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	Power by Adapter 18V
	Model: MX24W1-1801200U
	Input: 100-240V~50-60Hz 0.7A
	Output: 18V 1.2A



Operation F	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:	<ul> <li>Special software is used.</li> <li>Through engineering command into the engineering mode.</li> <li>engineering command: *#*#3646633#*#*</li> </ul>		
EUT Power level:	Class2 (Power level is built-in set parameters and cannot be changed and selected)		
Use test software to set the lo	owest frequency, the middle frequency and	I the highest frequency keep	
transmitting of the EUT.	- 1	1	
Mode	Channel	Frequency(MHz)	
	СНО	2402	
DH1/DH3/DH5	СН39	2441	
	CH78	2480	
	СНО	2402	
2DH1/2DH3/2DH5	СН39	2441	
	CH78	2480	
	СНО	2402	
3DH1/3DH3/3DH5	СН39	2441	
	CH78	2480	

### Run Software:

		Connect Select	
COM1	•	NonConnect_BT	• Connect
Open		* Notice If you want change tes 1) Reboo [the Device] 2) Restart [the FrequencyTools :	
Generate and Send CM	D	Mode Select in NonConnect	
1. Hopping Type Single Frequency		BT-TX O BT-RX	
2. Frequency		C DI IN	
2402	• MHz	MAX TX Power	SEND
3. Package Type		OdBm +	
DHS	•		
Connect_BLE_Tester			
Connect_BLE_Texter BLE Mode		Frequency (BLE Texter)	START



### 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 <sup>-8</sup>
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	2021/9/10	2022/9/9
Spectrum analyzer	R&S	FSU26	CQA-038	2021/9/10	2022/9/9
		AFS4-00010300-18-10P-			
Preamplifier	MITEQ	4	CQA-035	2021/9/10	2022/9/9
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2021/9/10	2022/9/9
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	2021/9/10	2022/9/9
Coaxial Cable					
(Below 1GHz)	CQA	N/A	C020	2021/9/10	2022/9/9
Antenna Connector	CQA	RFC-01	CQA-080	2021/9/10	2022/9/9
RF					
cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/9/10	2022/9/9
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2021/9/10	2022/9/9
EMI Test Receiver	R&S	ESPI3	CQA-013	2021/9/10	2022/9/9
LISN	R&S	ENV216	CQA-003	2021/9/10	2022/9/9
Coaxial cable	CQA	N/A	CQA-C009	2021/9/10	2022/9/9

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

|--|

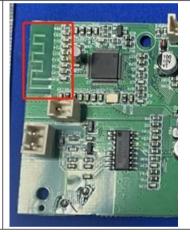
### 15.203 requirement:

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 PCB antenna. The best case gain of the antenna is 0 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.	LJ
Test Procedure:	<ol> <li>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 Lie exceeded.</li> <li>The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference plane. An of the EUT shall be 0.4 m of the EUT shall be 0.4 m of the EUT shall be 0.4 m of the EUT and associated exceeded.</li> <li>In order to find the maximule equipment and all of the in ANSI C63.10: 2013 on con</li> </ol>	b AC power source thro etwork) which provides bles of all other units of SN 2, which was bonde he way as the LISN 1 for set outlet strip was used ISN provided the rating ced upon a non-metalling of floor-standing ar round reference plane, th a vertical ground ref from the vertical ground plane was bonded to the 1 was placed 0.8 m fro to a ground reference und reference plane. The s of the LISN 1 and the quipment was at least 0 im emission, the relative terface cables must be	bugh a LISN 1 (Line a $50\Omega/50\mu$ H + $5\Omega$ linear f the EUT were d to the ground or the unit being d to connect multiple g of the LISN was not c table 0.8m above the rangement, the EUT was erence plane. The rear d reference plane. The e horizontal ground om the boundary of the e plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2. re positions of
Test Setup:	Shielding Room	AE 150 150 150 150 150 150 150 150	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



Line

Line

Line

Line

Line

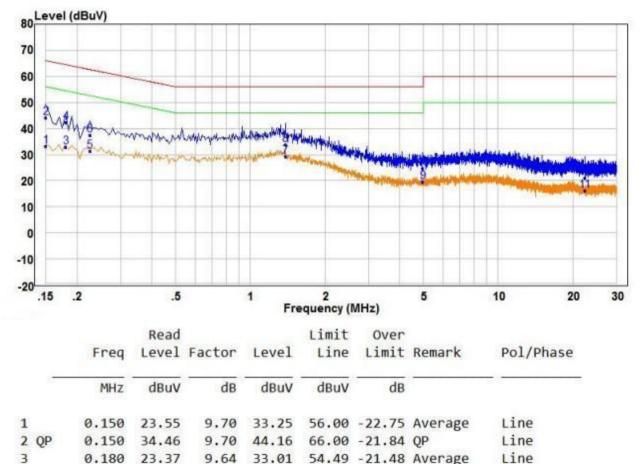
Line Line

Line

Line

#### **Measurement Data**

Live line:



9.64 42.36 64.49 -22.13 QP

9.58 31.40 52.63 -21.23 Average

10.61 29.13 46.00 -16.87 Average

9.75 19.46 46.00 -26.54 Average

9.94 16.30 50.00 -33.70 Average

9.94 21.01 60.00 -38.99 QP

62.63 -25.21 QP

56.00 -31.38 QP

4

5

6

8

9

10

11

12

7 PP

0.180

0.225

0.225

1.385

4.970

22.380

4.970 14.87

22.380 11.07

32.72

21.82

27.84

18.52

9.71

6.36

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

9.58 37.42

1.385 23.25 10.61 33.86 56.00 -22.14 QP

9.75 24.62

- 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

Neutral

Neutral

Neutral

Neutral

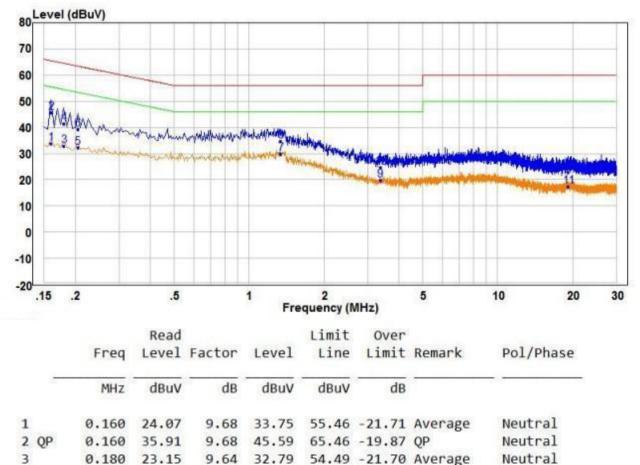
Neutral

Neutral

Neutral

Neutral

Neutral line:



9.64 41.49 64.49 -23.00 QP

9.72 34.81 56.00 -21.19 QP

9.77 24.73 56.00 -31.27 QP

9.82 22.82 60.00 -37.18 OP

9.60 32.30 53.41 -21.11 Average

9.72 29.88 46.00 -16.12 Average

9.77 19.69 46.00 -26.31 Average

9.82 17.42 50.00 -32.58 Average

63.41 -24.19 QP

Re	ma	ırk.	

4

5

6

8

9

10

11

12

7 PP

0.180

0.205

0.205

1.340

3.380

19.235

31.85

22.70

29.62

20.16

9.92

7.60

1.340 25.09

3.380 14.96

19.235 13.00

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

9.60 39.22

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         F.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 $\pi$ /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

	GFSK mode	9	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.35	21.00	Pass
Middle	-2.68	21.00	Pass
Highest	-2.37	21.00	Pass
	π/4DQPSK m	ode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.22	21.00	Pass
Middle	0.32	21.00	Pass
Highest	-2.64	21.00	Pass
	8DPSK mod	e	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-0.29	21.00	Pass
Middle	0.26	21.00	Pass
Highest	-2.77	21.00	Pass



## Test plot as follows:

				1_2402			
Spectrum	)		_				
Ref Level 30.0	OdBm Offset 9	.84 dB 👄 RB	W 3 MHz				
Att Count 100/100	40 dB SWT	1.3 µs 🍝 VB	W 10 MHz	Mode Auto	FFT		
e 1Pk View							
				M1[1]		100-700	-0.35 dBm
20 dBm-					1	2.40	1239960 GHz
10 dBm		o				-	-
				MI			
0 dBm-				*		-	
10.00						-	
-10 dBm							
-20 dBm							/
-30 dBm							
-40 dBm			2				
-50 dBm							
-So dom							
-60 dBm				~			-
CF 2.402 GHz Date: 25.MAR.2022	06:50:09	DH	1001 p			St.	an 8.0 MHz
2	06:50:09	DH		1_2441		St	
Date: 25.MAR.2022 Spectrum Ref Level 30.6	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant	1_2441		St	
Date: 25.MAR 2022 Spectrum Ref Level 30.0	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant		FFT	SF	
Date: 25.MAR.2022 Spectrum Ref Level 30.6	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant	1_2441 Mode Auto		SF	
Date: 25.MAR.2022 Spectrum Ref.Level 30.0 Att Count 100/100	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant	1_2441			-2.68 dBm
Date: 25.MAR.2022 Spectrum Ref.Level 30.0 Att Count 100/100	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant	1_2441 Mode Auto			
Date: 25.MAR 2022 Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR.2022 Spectrum Ref.Level 30.0 Att Count 100/100 IPk View	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR.2022 Spectrum Ref Level 30,0 Att Count 100/100 10 dBm 10 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022 Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MHz 10 MHz	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR.2022 Spectrum Ref Level 30,0 Att Count 100/100 10 dBm 10 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022  Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 10 dBm -10 dBm -10 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022  Spectrum  Ref Level 30.0  Att Count 100/100  IPk View  20 dBm  10 dBm  0 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25, MAR 2022 Spectrum Ref Level 30,0 Att Count 100/100 IPk View 20 dBm 10 dBm -10 dBm -20 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022  Spectrum Ref Level 30.0 Att Count 100/100 1Pk View 20 dBm 10 dBm 10 dBm -10 dBm -10 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25, MAR 2022 Spectrum Ref Level 30,0 Att Count 100/100 IPk View 20 dBm 10 dBm -10 dBm -20 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25, MAR 2022	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022  Spectrum Ref Level 30.0 Att Count 100/100 IPk View 20 dBm 10 dBm 10 dBm -10 dBm -30 dBm -30 dBm	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022  Spectrum  Ref Level 30.0  Att Count 100/100  IPk View 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm -	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25, MAR 2022	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto			-2.68 dBm
Date: 25.MAR 2022  Spectrum  Ref Level 30.0  Att Count 100/100  IPk View 20 dBm 10 dBm 0 dBm -10 dBm -30 dBm -	0 dBm Offset 9	.80 dB 🖷 RB	15_Ant w 3 MH2 w 10 MH2	1_2441 Mode Auto MI[1]		2.4	-2.68 dBm



	DH5_Ant1	2480		
Spectrum				
Att 40 dB SWT Count 100/100	:9.80 dB 👄 <b>RBW</b> 3 MHz 1.3 µs 👄 <b>VBW</b> 10 MHz м	10de Auto FFT		
●1Pk View		M1[1]	-2.37 dBm	
20 dBm			2.48011990 GHz	
10 dBm				
0 dBm	M1			
-10 dBm				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm				
-60 dBm				
CF 2.48 GHz	1001 pts		Span 8.0 MHz	
Date: 25.MAR.2022 06:52:59				
	2DH5_Ant1	_2402		
Spectrum	2DH5_Ant1	_2402		
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	2DH5_Ant1 9,84 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz м			
Ref Level 30.00 dBm Offset	: 9.84 dB 👄 <b>RBW</b> 3 MHz		-0.22 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	: 9.84 dB 👄 <b>RBW</b> 3 MHz	lode Auto FFT		
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 PIR View	2 9,84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 1Pk View 20 dBm	: 9.84 dB 👄 <b>RBW</b> 3 MHz	lode Auto FFT	-0.22 dBm	
Ref Level         30.00 dBm         Offset           Att         40 dB         SWT           Count         100/100         1Pk View           20 dBm         10 dBm         10 dBm	2 9,84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level     30.00 dBm     Offset       Att     40 dB     SWT       Count     100/100       ID     dBm       ID     dBm	2 9,84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         1Pk View         20 dBm           10 dBm         0 dBm         10 dBm           10 dBm         -10 dBm         -10 dBm	2 9,84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         1Pk View         20 dBm           20 dBm         0 dBm         0 dBm           10 dBm         0 dBm         20 dBm	2 9,84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         1Pk View         20 dBm           10 dBm         0 dBm         10 dBm           -10 dBm         -30 dBm         -30 dBm	2 9,84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level         30.00 dBm         Offset           Att         40 dB         SWT           Count         100/100         1Pk View           20 dBm         10 dBm         10 dBm           10 dBm         -0 dBm         -30 dBm           -40 dBm         -40 dBm         -40 dBm	2 9.84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	lode Auto FFT	-0.22 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         •1Pk View         •           20 dBm         •         •           10 dBm         •         •           0 dBm         •         •           -10 dBm         •         •           -20 dBm         •         •           -30 dBm         •         •           -30 dBm         •         •           -50 dBm         •         •	2 9.84 dB RBW 3 MHz 1.3 µs VBW 10 MHz M	hode Auto FFT	-0.22 dBm	







	3DH5_Ant1_240	2	
Spectrum			
Att 40 dB SWT Count 100/100	9.84 dB 👄 <b>RBW</b> 3 MHz 1.3 µs 👄 <b>VBW</b> 10 MHz Mode Aut	o FFT	
●1Pk View	M1[	1] -0.29 dBm	
20 dBm-		2.40161640 GHz	
20 0811			
10 dBm			
0 dBm	MI		
-10 dBm			
-20 dBm-			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
CF 2.402 GHz	1001 pts	Span 8.0 MHz	
Date: 25.MAR.2022 09:00:41	1001 pts	Span 8.0 MHz	
Spectrum Ref Level 30.00 dam. Offset	3DH5_Ant1_244	1	]
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100	3DH5_Ant1_244		]
RefLevel 30.00 dBm Offset Att 40 dB SWT	9.80 dB 🖷 RBW 3 MHz	o FFT 1] 0.26 dBm	]
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 Aut	o FFT	
RefLevel 30.00 dBm Offset Att 40 dB SWT Count 100/100 PIPk View	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut	o FFT 1] 0.26 dBm	]
Ref Level 30.00 dBm Offset Att 40 dB SWT Count 100/100 1Pk View 20 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         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 Aut M1[	o FFT 1] 0.26 dBm	
Ref Level         30.00         dBm         Offset           Att         40 dB         SWT         Count 100/100           @1Pk View         20 dBm         20 dBm         10 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         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 Aut M1[	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         91Pk View         91Pk View           20 dBm         0 dBm         0 dBm           10 dBm         -10 dBm         -10 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         91Pk View         91Pk View           20 dBm         0         0           10 dBm         0         dBm           20 dBm         910 dBm         910 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         91Pk View         91Pk View           20 dBm         0 dBm         910 dBm           10 dBm         910 dBm         910 dBm           -10 dBm         910 dBm         910 dBm           -30 dBm         -30 dBm         910 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           10 dBm         91Pk View         91Pk View           10 dBm         910 dBm         91Pk View           20 dBm         91Pk View         91Pk View           10 dBm         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           10 dBm         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           -10 dBm         91Pk View         91Pk View           -20 dBm         91Pk View         91Pk View           -50 dBm         91Pk View         91Pk View	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	
Ref Level         30.00         dBm         Offset           Att         40 dB         SWT         Count 100/100           © 1Pk View         20         dBm         10           10 dBm         -0         dBm         -10           20 dBm         -10 dBm         -10 dBm         -40 dBm	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	
Ref Level 30.00 dBm         Offset           Att         40 dB         SWT           Count 100/100         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           10 dBm         91Pk View         91Pk View           10 dBm         910 dBm         91Pk View           20 dBm         91Pk View         91Pk View           10 dBm         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           10 dBm         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           20 dBm         91Pk View         91Pk View           -10 dBm         91Pk View         91Pk View           -20 dBm         91Pk View         91Pk View           -50 dBm         91Pk View         91Pk View	9.80 dB • RBW 3 MHz 1.3 µs • VBW 10 MHz Mode Aut M1[	o FFT 1] 0.26 dBm	



Spectrun				<b>m</b>					
<ul> <li>Att Count 100,</li> </ul>	RefLevel 30.00 dBm         Offset 9.80 dB         RBW         3 MH₂           Att         40 dB         SWT         1.3 μs         VBW 10 MH₂         Mode Auto FFT           Count 100/100                 ● IPk View								
20 dBm			M1[1]	-2.77 dBm 2.48038360 GHz					
10 dBm									
0 dBm			MI						
-10 dBm									
-30 dBm		8 8							
-40 dBm									
-50 dBm									
-60 dBm									
CF 2.48 G	łz		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 $\pi$ /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**

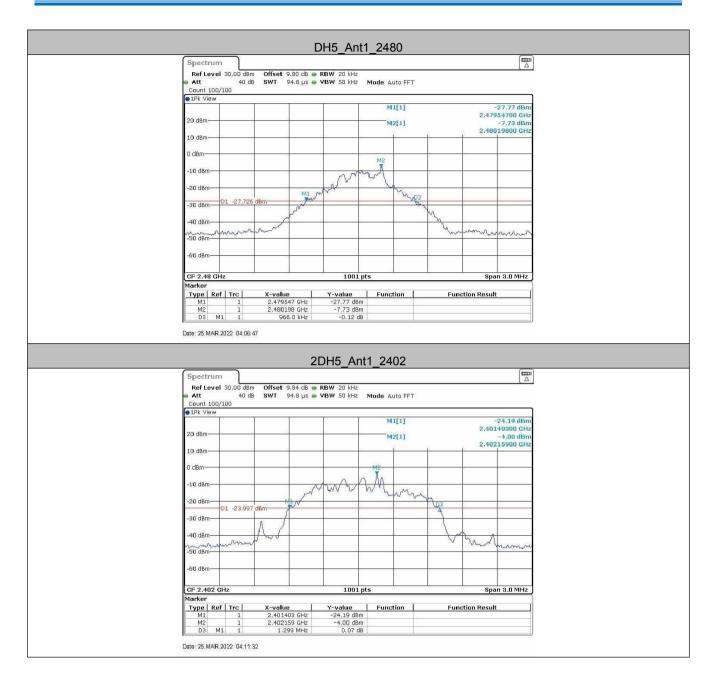
Test shannel	20	DdB Occupy Bandwidth (MH	z)
Test channel	GFSK	π/4DQPSK	8DPSK
Lowest	0.960	1.299	1.290
Middle	0.969	1.299	1.290
Highest	0.966	1.305	1.293



### Test plot as follows:



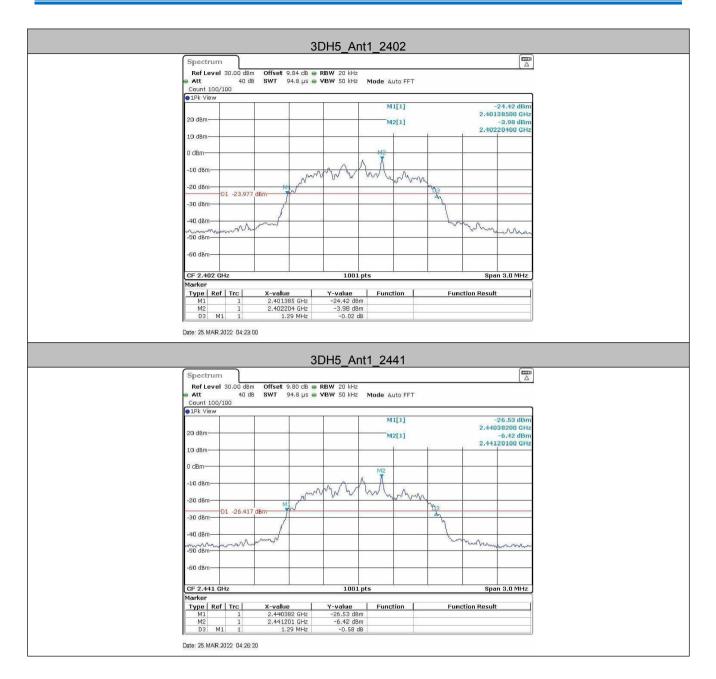


















# 5.5 Carrier Frequencies Separation

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 $\pi$ /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**

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Нор	1.348	≥0.646	PASS
2DH5	Ant1	Нор	1	≥0.870	PASS
3DH5	Ant1	Нор	1	≥0.862	PASS

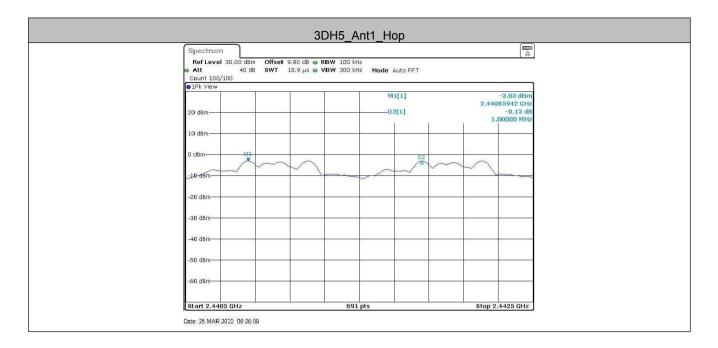
Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	0.969	≥0.646
π/4DQPSK	1.305	≥0.870
8DPSK	1.293	≥0.862



### Test plot as follows:









# 5.6 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
	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_Ho	p
Spectru Ref Lev	m el 30.00 dBm Offset 9.84 dB 🖷 RBW 100 kHz	
Att • 1Pk View	40 dB SWT 94.8 µs 🖷 VBW 300 kHz Mode A	uto FFT
20 dBm		
10 dBm-		
10 dBm		
	MARTIN PARTA I ANTA I ANA BINA A ANTA I ANTA ANTA ANTA ANTA ANTA AN	ANAANINAANAA aharaanaanaanaa
-\$0 dBm—		the and the anti-anti-anti-anti-anti-anti-anti-anti-
-80 dBm		
~40 dBm—		
-50 dBm		
-60 dBm-		
Start 2.4 Date: 25.MAI	GHz 691 pts	Stop 2.4935 GHz
Spectru	2DH5_Ant1_Hc	
👄 Att	el 30.00 dBm Offset 9.84 dB ● RBW 100 kHz 40 dB SWT 94.8 µs ● VBW 300 kHz Mode A	
• 1Pk View		
20 dBm		
10 dBm		
о <sub>сівт</sub> ЛАЛАДА	ALLALOALIBOINKAA HENEKEENEKEENEKEENEKEE	8 8 1 9 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
-10 dBm	www.www.www.www.www.www.	unananananan halanahandh
-20 dBm—		
-30 dBm		
40 dBm-		
-50 dBm—		
-60 dBm—		
Start 2.4	GHz 691 pts	8top 2.4835 GHz
Date: 25.MAJ	8.2022 06:18:30	



	Spectrun	n								
	Ref Leve	1 30.00 dBr			RBW 100 kH					( <sup>L</sup>
	Att 40 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT									
	CLER VIEW			1		-				
	20 dBm						-			
	10 dBm						-			
	0 dBm	MMM	MMMM	MANAAAA	ANNAR	MWM,	WWW	MMMM	AWAMA	MAN
	-20 dBm									
	-30 dBm					8	8			
	~40 dBm									
	-50 dBm-				~		0			
	Start 2.4 (				691					4835 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**

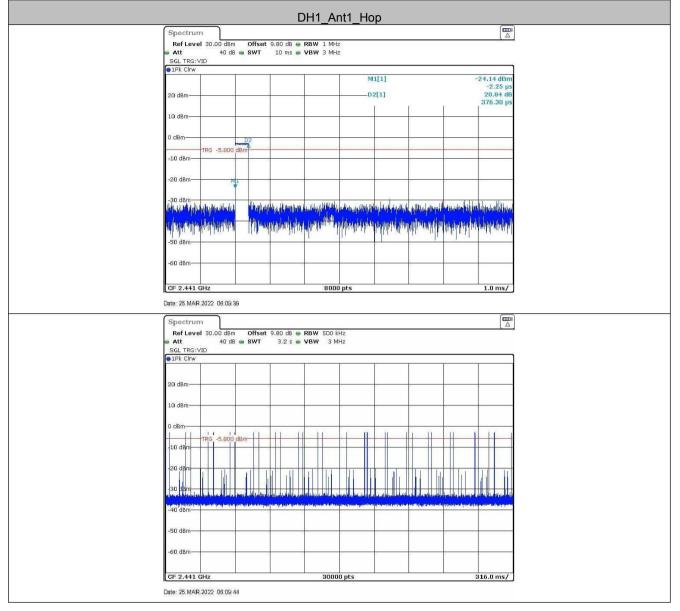
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.38	330	0.124	≤0.4	PASS
DH3	Ant1	Нор	1.63	150	0.245	≤0.4	PASS
DH5	Ant1	Нор	2.87	130	0.373	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.122	≤0.4	PASS
2DH3	Ant1	Нор	1.63	180	0.293	≤0.4	PASS
2DH5	Ant1	Нор	2.87	120	0.344	≤0.4	PASS
3DH1	Ant1	Нор	0.38	320	0.123	≤0.4	PASS
3DH3	Ant1	Нор	1.63	200	0.325	≤0.4	PASS
3DH5	Ant1	Нор	2.87	130	0.373	≤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:







(Creating)	DH3_Ant1_Hop		
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 IPk Cirw			
	M1[1]	-10.14 dBm -1.00 μs	
20 dBm	D2[1]	6.78 dB 1.63145 ms	
		1.03143 ms	
10 dBm			
0 dBm	D2		
TRG -5.808jdBm			
-10 dBm			
-20 dBm-			
-30 dBm	الانتهار والموالية المراجب المراجب والمكر بعد معالية والمراجع والمراجع والمراجع	والالالا والعراج المالية المراد المراجع	
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-50 dBm			
-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
Date: 25.MAR.2022 06:10:48			
Spectrum			
Ref Level 30.00 dBm Offset	9.80 dB 👄 RBW 500 kHz		
Att 40 dB SWT SGL TRG: VID	3.2 s 🖷 VBW 3 MHz		
● 1Pk Clrw			
20 dBm			
10 dBm			
10 don			
0 dBm			
TRG -5.800 dBm			
-10 dBm			
-10 dBm -20jdBm-			
-10 dBm			
-10 dBm			
-10 dBm			
-10 dBm -20 dBm -34 dBm -10 With Division With With any division -40 dBm			
-10 dBm -20 dBm -34 dBm -10 With Division With With any division -40 dBm			
-10 dBm -20jdBm -30 dBm -30 dBm -40 dBm -50 dBm			
-10 dBm -20jdBm -30 dBm -30 dBm -40 dBm -50 dBm	30000 pts	316.0 ms/	





DH5	_Ant1_Hop	
Spectrum	A Million	
Ref Level         30,00         dBm         Offset         9,80         dB         RBW           Att         40         dB         SWT         10         ms         VBW		
SGL TRG: VID		
	M1[1]	-27.28 dBm
20 dBm-	D2[1]	-2.25 μs 24.18 dB
		2.87286 ms
10 dBm		
0 dBm	D2	
TRG -5.800 dBm		
-10 dBm		
-20 dBm		
MI		
-30, dBm-	the land shifts been shall a sink a the state and the berequiries the	. (1) Jahren and Alleren for Back
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and have a state of the taken of the taken of the	and the light of the light of the light of the standard light of the	and have be assessed in the second
-50 dBm		
-60 dBm		
CF 2.441 GHz	8000 pts	1.0 ms/
Date: 25.MAR.2022 06:03:01		
Spectrum		
Ref Level 30.00 dBm Offset 9.80 dB  RBW	500 kHz	
■ Att 40 dB ■ SWT 3.2 s ■ VBW SGL TRG: VID	3 MHz	
20 dBm		
10 dBm		
0 dBm		
-10 dBm		
-20 dBm		
	والمستوقية فالموجعان الفرام أخرافه الاستقاد وتقاده المساهد ومقدا ومقدا	manul adaption the
-30 dBm -30 dBm -40 dBm -40 dBm	n na shuna a ka ana ang ka	in and the state of the second state
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-40 dBm		
-50 dBm	an about celet it is about the distribution of the celet is the second sec	316.0 ms/

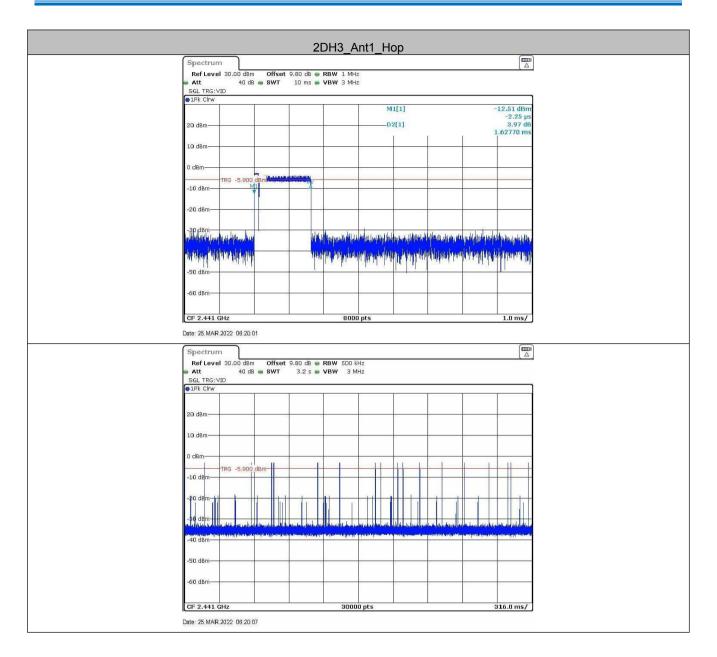




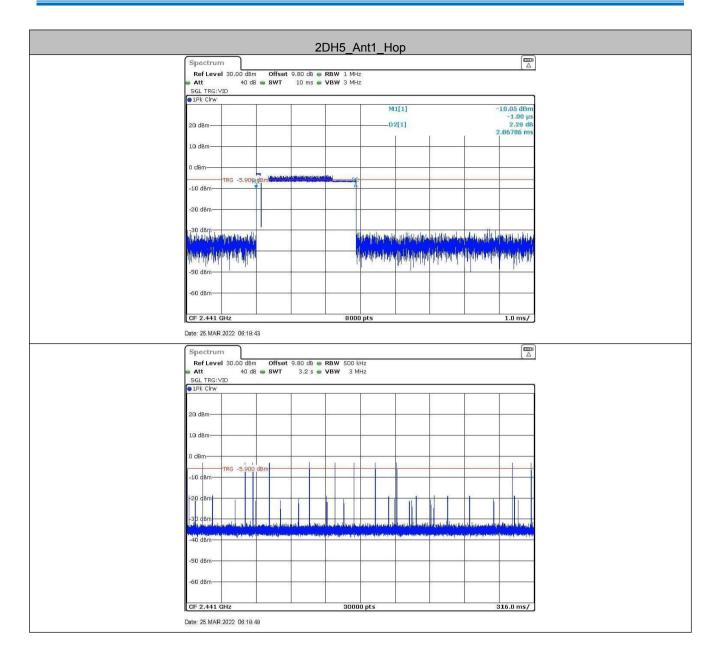
2DH1_Ant1_Hop
Ref Level 30,00 dBm Offset 9.80 dB
Att 40 dB SWT 10 ms VBW 3 MHz SGL TRG: VID
IPk Cirw
M1[1] -10.83 dBm -1.00 μs
20 d8m D2[1] 2.47 dB 382.55 µs
10 dBm-
0 d8m
TRG - 5.800,49142
-10 dBm-
-20 dBm
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-50 dBm
-60 dBm
CF 2.441 GHz 8000 pts 1.0 ms/
Date: 25.MAR 2022 06.19:22
Spectrum (
Ref Level 30,00 dBm Offset 9.80 dB
Att 40 dB SWT 3.2 s VBW 3 MHz SGL TRG: VID
IPK cirw
20 dBm-
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-10 d\$m
n fillet keit weiten an beiten bereiten der eine beiten der eine der einen einen einen einen der einen der eine beiten beiten er der beiten beiten er der beiten
-50 dBm
-60 dBm-
CF 2.441 GHz         30000 pts         316.0 ms/
Date: 25 MAR 2022 06 19:28
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	H1_Ant1_Hop		
Ref Level 30.00 dBm Offset 9.80 dB Ri	BW 1. MHz		
🛢 Att 🛛 40 dB 🖷 SWT 10 ms 🖷 V			
SGL TRG: VID 91Pk Clrw			
	M1[1]	-21.71 dBm -2.25 μs	
20 dBm	D2[1]	-2.23 µs 13.07 dB 383.80 µs	
10 d8m			
0 dBm			
-10 dBm			
-20 dBm			
_30 dBm	the dual takants, data into the menor and a more the dual of the	solution by an electron	
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-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
 Date: 25.MAR.2022 06:32:56			
Spectrum Ref Level 30.00 dBm Offset 9.80 dB @ RI	BW COOLUT		
att 40 dB 🕳 SWT 3.2 s 🖷 V			
SGL TRG: VID PIPk Clrw			
20 dBm			
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0 dBm			
-L0 dBm			
-20 dBm - 1			
-80 BBm	Li in la provinsi na bana gana antilisina na mbana kada da a	Land a product in a large college	
-40 dBm	na fi san fananan shekaran galanan biy Anafi yang kan kananan san san san sa kasa san na na na na na na na na n	and a first of the first of the second s	
-50 dBm			
-60 dBm			
CF 2.441 GHz	30000 pts	316.0 ms/	
Date: 25.MAR.2022 06:33:02			





	3DH3_Ant1_Hop		
Spectrum Ref Level 30.00 dBm Offset	9.80 dB 🖷 RBW 1 MHz		
	10 ms 🖷 VBW 3 MHz		
e 1Pk Cirw			
	M1[1]	-15.71 dBm -2.25 μs	
20 dBm-	D2[1]	9.44 dB 1.62520 ms	
10 dBm			
0 dBm	darena MD2		
-10 dBm1			
-20 dBm			
-30 dBm	To the stark operflow , the start black of the start is the second start as store	المراجع والمراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع	
of a processing the station of the second of	ling at a filler of the state o	he was a stand of the stand of the standard of the	
-50 dBm			
-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
Date: 25.MAR 2022 06:33:30			
Spectrum			
	9.80 dB • RBW 500 kHz 3.2 s • VBW 3 MHz		
SGL TRG: VID	5.2.5 <b>• • b</b> ₩ 5 mile		
●1Pk Cirw			
20 dBm			
10 dBm			
0 dBm			
-10 dBm			
-20 UDIN			
-20 dBm			
-20 dBm-			
(A) J. Sector H. S. Hill H. Sector in the low of the Help of the Sector in the Sect	i de ante a de alle Mariel and Franciscus de la de La deve de la	Nooren alta Andre Laffre Harten bekannen alta alta fallen sierten stelletten sierten. 19 maar op de steren seerten alte fan stellen stelletten stelletten stelletten stelletten stelletten stelletten	
-40 dBm			
-50 dBm			
-60 dBm			
-60 dBm			
-60 dBm	30000 pts	316.0 ms/	





Spectrum       (m)         Weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1900         Old weitweit Bud dam offreit 500 50 8 8890 1000         Old weitweit Bud dam offreit 500 50 8 8890 1000         Old weitweit Bud dam offreit 500 50 8 8890 1000 1900         Old weitweit Bud dam offreit 500 50 8 8890 1000 1900         Old weitweitweit Bud dam offreit 500 50 8 8890 1000 1900         Old weitweitweitweitweitweitweitweitweitweit										
Ref Level 30.05 gem 0.01 ge 9000 1940:         SGL TO KVD         SGL TO KVD         90 dem       -16.47 dim         90 dem       -2.65 11 ms         90 dem       -0.21 1         90 dem       -0.20 1         90 dem       -0.21 1	(Creation of the second s		3D	H5_Ant	n_Ho	р				
Sci. Tris-type         9 dR       9 dR         9 dR       9 dR         10 dR       10 dR	Ref Leve	1 30.00 dBm Off							[Δ]	
20 dbm       -16.47.26 m         20 dbm       -2.25 m         10 dbm       -2.25 m         10 dbm       -10 dbm         0 dbm       -10 dbm         -10 dbm       -10 dbm         -10 dbm       -10 dbm         -20 dbm       -10 dbm         -10 dbm       -10 dbm         -10 dbm       -10 dbm         -20 dbm       -10 dbm         -30 dbm       -10 dbm         -3			T 10 ms 🖷 V	BW 3 MHz						
a) dim	1Pk Clrw				M1	[1]		-	16.47 dBm	
10 dmm	20 dBm								-2.25 µs	
0 dbm       02       0       0       0         10 dbm       0       0       0       0       0       0         -00 dbm       0       0       0       0       0       0       0         -00 dbm       0       0       0       0       0       0       0       0         -00 dbm       0	20 0011				1	-	i I	2	.86911 ms	
-10 dbm	10 dBm			10						
	0 dBm			10250 <sup>10</sup>						
20 dBm       0 dbm <t< td=""><td>10 10 -</td><td>TRG -5.900 dBm</td><td>ile destalation de</td><td>D2</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	10 10 -	TRG -5.900 dBm	ile destalation de	D2						
SQ 4201       I </td <td>-10 dBm</td> <td>MI</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-10 dBm	MI								
Signed and working and	-20 dBm		-							
All data provide       Provide data provide	-30 dBm+	Lawrence and the		1.11	. La liata		1. I I. <b>.</b>	t dt same i	11	
So dam       Image: So dam	Virt A p. Millord A	A MARANA A		a dial	Hand Handel	Mandlel John	utalelant.	1 Martin Martin	15	
-60 dBm       -10       <	station francism			M. W.	and an and the	ow old bold by	della della	a willing water	the class of the	
CF 2.441 GHz       B000 pts       1.0 ms/         Date: 25 MAR 2022 06 32 10       Image: 25 MAR 2022 06 32 10       Image: 25 MAR 2022 06 32 10         Ref Level 50.00 dBm       Offset 50.00 dB       RBW 500 kHz       Image: 25 MAR 2022 06 32 10         Att       40 dB       SWT       3.2 s       VBW 3 MHz         SGL TRG: VID       Image: 26 Mar 2012 06 32 00       Image: 26 Mar 2012 06 32 00       Image: 26 Mar 2012 06 32 00         O dBm       Image: 26 Mar 2012 06 32 00       Image: 26 Mar 2012 06 32 00       Image: 26 Mar 2012 06 30 00       Image: 26 Mar 2012 06 30 00         Image: 26 Mar 2012 06 32 00       Image: 26 Mar 2012 06 30 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00         Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00         Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00       Image: 26 Mar 2012 06 00         Image: 27 Mar 2012 06 00       Image: 26 Mar 2012 06 00         Image: 27 Mar 2012 06 00       Image: 26 Mar 2012 06 00<	-50 dBm									
Spectrum       Image:	-60 dBm									
Spectrum       Image:										
Spectrum         Image: Spectrum <thimage: spectrum<="" th="">         Image: Spectrum         Image: Spectrum<td>CF 2.441 (</td><td>SHz</td><td></td><td>8000 pt</td><td>5</td><td></td><td></td><td></td><td>1.0 ms/</td><td></td></thimage:>	CF 2.441 (	SHz		8000 pt	5				1.0 ms/	
Ref Level 90.00 dBm       Offset 9.80 dB @ RBW 500 kHz         SGL TRG: VID         ID	Date: 25.MAR	2022 06:32:10								
Att       40 dB       SWT       3.2 s       VBW       3 MH2         SGL TRG: VID       IPR CINV       Image: Cinv <td></td>										
• 1Pk Clrw         20 dBm         10 dBm         0 dBm         -10 dBm         -20 dBm         -30 dBm         -30 dBm         -30 dBm         -20 dBm         -30 dBm         -30 dBm         -30 dBm         -20 dBm         -30 dBm         -30 dBm         -20 dBm         -30 dBm	👄 Att	40 dB 🥌 SW								
20 dBm       20 dBm       20 dBm       20 dBm         10 dBm       20 dBm       20 dBm       20 dBm         -10 dBm       20 dBm       20 dBm       20 dBm         -10 dBm       20 dBm       20 dBm       20 dBm         -20 dBm       20 dBm       20 dBm       20 dBm         -10 dBm       20 dBm       20 dBm       20 dBm         -20 dBm       20 dBm       20 dBm       20 dBm         -20 dBm       20 dBm       20 dBm       20 dBm         -30 dBm       20 dBm       20 dBm       20 dBm         -40 dBm       20 dBm       20 dBm       20 dBm         -50 dBm       20 dBm       20 dBm       20 dBm         -60 dBm       20 dBm       20 dBm       20 dBm         -50 dBm       20 dBm       20 dBm       20 dBm	SGL TRG: \ PRK Cirw	ID							1	
10 dBm										
0 dBm       TRG -5,900 dBm       Image: state of the state o	20 dBm		-		0		-			
0 dBm       TRG -5.900 dBm       Image: state of the state o	10 dBm									
TRG       -5,900       dBm       -10 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>										
-10 dBm       -20 dBm         -30 dBm       -10 dBm         -30 dBm       -10 dBm         -30 dBm       -10 dBm         -30 dBm       -10 dBm         -60 dBm       -10 dBm         -50 dBm       -10 dBm         -50 dBm       -10 dBm         -50 dBm       -10 dBm         -50 dBm       -10 dBm         -60 dBm       -10 dBm         -10 dBm       -10 dBm	0 dBm	TRG 5 000 dp-			- I		_	1 11	11	
-30 dBm	-10 dBm	140 -31900 UBM		10						
-30 dBm	-2ntdBm+			4		11	11 1			
add blick, zlibit zb, stranda drough mar, skil and bling i grave statu zb, stranda bling i grave stra										
-50 dBm -60 dBm CF 2.441 GHz 30000 pts 316.0 ms/	-3D dBm	Holehold Hannahold and holy	and the second second second	and the local states	بر السريار وخلاص ا		مطعياته ويرها	Labert Alapin	La Cliff - Has cards	
-60 dBm CF 2.4+1 GHz 30000 pts 316.0 ms/	-40 dBm	Lality of a loop of a state of a	a hara di mana ang na mang na m Na mang na mang n	And Indiana di Ala M		and descent dates	a de la construction de la construcción de la construcción de la construcción de la construcción de la constru La construcción de la construcción d	ana ang ang ang ang ang ang ang ang ang	a action at a low to do a	
-60 dBm CF 2.441 GHz 30000 pts 316.0 ms/	-50 dBm									
CF 2.441 GHz         30000 pts         316.0 ms/										
	-60 dBm									
Late, 20.MAR.2022 00.02.10	CF 2.441 (	Hz		30000 n	ts			3	16.0 ms/	



# 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.: CQASZ20220300390E-01

### Measurement Data

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	8.02	-35.96	≤-11.98	PASS
		High	2480	-5.81	-47.84	≤-25.81	PASS
DH5	Ant1	Low	Hop_2402	-0.58	-44.53	≤-20.58	PASS
		High	Hop_2480	-5.76	-46.56	≤-25.76	PASS
		Low	2402	-0.46	-42.72	≤-20.46	PASS
		High	2480	-5.83	-47.6	≤-25.83	PASS
2DH5	Ant1	Low	Hop_2402	-4.10	-46.09	≤-24.1	PASS
		High	Hop_2480	-6.77	-47.82	≤-26.77	PASS
		Low	2402	-0.45	-42.81	≤-20.45	PASS
		High	2480	-5.88	-47.53	≤-25.88	PASS
3DH5	Ant1	Low	Hop_2402	-0.72	-47.27	≤-20.72	PASS
		High	Hop_2480	-7.36	-47.51	≤-27.36	PASS



### Test plot as follows:

Spectru	n								
				RBW 100 kHz					
Att Count 30		IB SWT	75.8 µs 👄	VBW 300 kHz	Mode Aut	O FFT			
●1Pk View		1	1	· ·					
12-201802-0					M1[:	1]		2.40	8.02 dBr 18560 GH
10 dBm	-				M2[:	1]		-	32.95 dBr
0 dBm		-		-	1			2.40	00000 GH
-10 dBm-	01 11 00	0 dBm					2		
	D1 -11.98	U dBm-							
-20 dBm—									
-30 dBm—	8	-	1		- 4				
-40 dBm				-			M3		F L
~SQ.dBm	10.00	10 10		Amark	Л	. A.	$\Lambda$	And	1 h
	And Charles	moth ma	hunner	dome and	man	and and	rate attention of	Dave Amore	
-60 dBm-							3	5	
-70 dBm—	-	10			- 6				
		5					6		
Start 2.3. Marker	i GHz			691 pts	5			Stop	2.405 GHz
Type R		X-valu	e	Y-value	Functio	n	Fund	tion Result	1
M1	1		156 GHz 2.4 GHz	8.02 dBm -32.95 dBm					
M2									
M2 M3	1	2.	39 GHz	-40.45 dBm					
M3 M4	1	2.39997		-40.45 dBm -35.96 dBm					
M3	1	2.39997							
M3 M4	1	2.39997	'83 GHz	-35.96 dBm					
M3 M4	1	2.39997	'83 GHz		ligh_24	480			
M3 M4	1	2.39997	'83 GHz	-35.96 dBm	ligh_24	480			
M3 M4 Date: 25.MAI Spectru Ref Lev	1 1 2,2022 03:48	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz					(m
M3 M4 Date: 25.MAI	1 1 3.2022 03:48 m 20.00 dB 30 d	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H					(III)
M3 M4 Date: 25.MAI Date: 25.MAI	1 1 3.2022 03:48 m 20.00 dB 30 d	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	O FFT			
M3 M4 Date: 25 MAI Spectru Ref Lev Att Count 30 IPk View	1 1 3.2022 03:48 m 20.00 dB 30 d	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz		O FFT		2.4	-5.81 dBr
M3 M4 Date: 25 MAI Spectru Ref Lev Att Count 30	1 1 3.2022 03:48 m 20.00 dB 30 d	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	:0 FFT 1]			-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Spectru Ref Lev Att Count 30 IPk View	1 1 3.2022 03:48 m 20.00 dB 30 d	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	:0 FFT 1]			-5.81 dBr
M3 M4 Date: 25.MAI Ref Lev Att Count 30 0 1Pk View 10 dBm—	1 1 1 2022 03:48 10 20:00 dB 30 0 1/300	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	:0 FFT 1]			-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 17k View 10 dBm- 0 dBm- -10 dBm-	1 1 1 2022 03:48 10 20:00 dB 30 0 1/300	2. 2.39997 :50 m Offset	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	:0 FFT 1]			-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Aft Count 30 1Pk View 10 dBm- 0 dBm-	1 1 1 1 2.2022 03:48 1 20.00 dB 20.00 d	2.39997 :50 m Offset 8 SWT	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	:0 FFT 1]			-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 17k View 10 dBm- 0 dBm- -10 dBm-	1 1 1 2022 03:48 10 20:00 dB 30 0 1/300	2.39997 :50 m Offset 8 SWT	0.80 dB •	-35.96 dBm 5_Ant1_H RBW 100 kHz	Mode Aut	:0 FFT 1]			-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm-	1 1 1 1 2.2022 03:48 1 20.00 dB 20.00 d	2.39997 :50 m Offset 8 SWT	0.80 dB •	-35,96 dbm	Mode Aut	:0 FFT 1]			-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm-	1 1 1 1 2.2022 03:42 1 20.00 dB 120.00 dB 120.0	2.39997 550 m Offset B SWT 0 dEm-	9.80 dB • 94.8 µs •	-35,96 dbm	Mode Aut	:0 FFT 1]		2,4	-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm-	1 1 1 1 20.00 dB 30 c //300 M1 01 -25.81	2.39997 :50 m Offset 8 SWT	ВЗ GHz DHS 9.80 dB = 94.8 µs =	-35,96 dbm	Mode Aut	:0 FFT 1]	tearment rect	2,4	-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm-	1 1 1 1 2.2022 03:42 1 20.00 dB 120.00 dB 120.0	2.39997 550 m Offset B SWT 0 dEm-	9.80 dB • 94.8 µs •	-35,96 dbm	Mode Aut	:0 FFT 1]	ter some of a sector	2,4	-5.81 dBr 80250 GH 50.68 dBr
M3           M4           Date: 25 MAI           Ref Lev           Att           Count 30           ● 1Pk View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm	1 1 1 1 2.2022 03:42 1 20.00 dB 120.00 dB 120.0	2.39997 550 m Offset B SWT 0 dEm-	9.80 dB • 94.8 µs •	-35,96 dbm	Mode Aut	:0 FFT 1]		2,4	-5.81 dBr 80250 GH 50.68 dBr
M3           M4           Date: 25 MAI           Ref Lev           Att           Count 30           1 Pk. View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm	1 1 1 1 2.2022 03:42 1 20.00 dB 120.00 dB 120.0	2.39997 550 m Offset B SWT 0 dEm-	9.80 dB • 94.8 µs •	-35,96 dbm	Mode Aut	:0 FFT 1]		2,4	-5.81 dBr 80250 GH 50.68 dBr
M3           M4           Date: 25 MAI           Ref Lev           Att           Count 30           ●1Pk View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -60 dBm           -70 dBm           Start 2.4'	1 1 1 2022 03:48 30 c /2000 dB 30 c /2000 dB 30 c /2000 dB	2.39997 550 m Offset B SWT 0 dEm-	9.80 dB • 94.8 µs •	-35,96 dbm	Mode Aut	:0 FFT 1]	Let my dy new	2.4 Junaounge	-5.81 dBr 80250 GH 50.68 dBr
M3 M4 Date: 25 MAI Ref Lev Att Count 30 1Pk View 10 dBm- 0 dBm- -10 dBm- -20 dBm- -20 dBm- -30 dBm- -40 dBm- -70 dBm- -70 dBm- Start 2.4' Marker	1 1 1 1 2.2022 03:42 1 20.00 dB 30 d 1/200 1/200 1/25.91 1/25.91 1/25.91 1/25.91 1/25.91	2.39997 550 m Offset B SWT 0 dBm 0 dBm 0 dBm	93 GHz DHS 94.8 µs 94.8 µs	-35,96 dBm	Mode Aut	:o FFT 1] 1]		2.4 ybrocoup Stop	-5.81 dBr 50.68 dBr 83500 GH
M3           M4           Date: 25 MAI           Ref Lev           Att           Count 30           ID dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -60 dBm           -70 dBm           Start 2.4'           Marker           Type R           M1	1 1 1 1 2,2022 03:42 al 20.00 dB 20.00 dB 10/200 ML 01 -25.81 ML 01 -25.81 ML 01 -25.81 ML 01 -25.81 ML 01 -25.81 ML 01 -25.81 -25	2.39997 550 m Offset B SWT 0 dBm- 0 dBm- 2.486 X-valu	9.80 dB 9 94.8 µs 9 95.8 µs 9 95.8 µs 9 95.8 µs 9 95.8 µs 9 95.8 µs 9 95.8 µ	-35,96 dBm	Mode Aut	:o FFT 1] 1]		2.4 Junaounge	-5.81 dBr 50.68 dBr 83500 GH
M3           M4           M4           Date: 25 MAI           Ref Lev           Att           Count 30           ● 1Pk View           10 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm           -40 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -50 dBm           -60 dBm           -70 dBm           Start 2.4'           Marker           Type R	1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.39997 :50 m Offset B SWT	94.8 µs	-35,96 dBm	Mode Aut	:o FFT 1] 1]		2.4 ybrocoup Stop	-5.81 dBr 50.68 dBr 83500 GH



DH5_Ant1_Low_Hop_2402	
Spectrum	
Ref Level 20.00 dBm Offset 9.84 dB	
Count 300/300	
PIR View     MI[1] -0.58 dBm	
2.4021740 GHz	
MZ[1] -+1.38 USH 2.400.001/1 GHz	
0 dBm	
-10 dBm	
-20-4Bm 01 -20.580 dBm	
-30 dBm-	
1440 dBm	
Bareberghannananandalasharanananananananananananananananananana	
-60 dBm-	
-70 dBm	
Start 2.35 GHz 691 pts Stop 2.405 GHz Marker	
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.402174 GHz         -0.58 dBm	
M2 1 2.4 GHz -41.38 dBm	
M3         1         2.39 GHz         -47.77 dBm           M4         1         2.3501594 GHz         -44.53 dBm	
Date: 25 MAR 2022 05 56 56	
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	
Count 300/300  IPk View	
M1[1] -5.76 dBm 2.473180 GHz	
10 dBm M2[1]51.63 dBm	
0 dam 2.483500 GHz	
0 dam 2.483500 GHz	
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2DH5_Ant1_Low_2402	
	Į.
Ref Level 20.00 dBm Offset 9.84 dB	
Att 30 dB SWT 75.8 µs WBW 300 kHz Mode Auto FFT	
Count 300/300  P1Pk View	
M1[1] -0.46 dBr	m
10 dBm 2.4018560 GH 2.4018560 GH 41.03 dBr	
2,4000000 GH	Iz
-10 dBm	-
-20.d8m D1 -20.460 dBm	_
-30 dBm	
-40 dBm M3	-1
1050, al martine for the second and the second of the seco	
	12. 
-60 dBm-	1
-70 dBm-	-1
Start 2.35 GHz 691 pts Stop 2.405 GHz Marker	2
Type         Ref         Trc         X-value         Y-value         Function         Function         Function Result           M1         1         2.401856 GHz         -0.46 dBm         -0.46 dB	
Date: 25 MAR 2022 04:11:53	_
Date: 25 MAR.2022 04:11:53  2DH5_Ant1_High_2480  Spectrum Ref Level 20.00 dBm Offset 9:80 dB RBW 100 kHz Att 30 dB SWT 9:80 µs VBW 300 kHz Mode Auto FFT	
Date: 25.MAR.2022 04:11:53 2DH5_Ant1_High_2480 Spectrum Ref Level 20:00 dbm Offset 9:80 db = RBW 100 Hz Att 30 db SWT 94:8 μs = VBW 300 kHz Mode Auto FFT Count 300/300 ● IFK View	
Date: 25.MAR.2022 04:11:53	m
Date: 25.MAR.2022 04:11:53	m tz m
Date: 25.MAR.2022 04:11:53           2DH5_Ant1_High_2480           Spectrum           Ref Level 20:00 dbm         Offset 9:80 db         RBW 100 kHz           Att 30 db         SWW 948 µs         VBW 300 kHz           Count 30/300           IPk View           1.11           N1[1]         -5.83 dBr           N1[1]         -5.83 dBr	m tz m
Date: 25.MAR.2022 04:11:53	m tz m
Date: 25.MAR.2022 04:11:53         2DH5_Ant1_High_2480         Spectrum         Ref Level 20:00 dbm       Offset 9:80 db 9 RBW 100 kHz         Att       30 db       SWT 94:8 µS 9 VBW 300 kHz       Mode Auto FFT         Count: 300/300         91 Rk View       M1[1]       -5.83 dBr         10 dBm       M1[1]       -5.83 dBr         0 dBm       M1[1]       -5.83 dBr         -10 dBm       M1[1]       -5.83 dBr	m tz m
Date: 25.MAR.2022 04:11:53	m tz m
Date: 25.MAR.2022 04:11:53         2DH5_Ant1_High_2480         Spectrum         Ref Level 20:00 dbm       Offset 9:80 db 9 RBW 100 kHz         Att       30 db       SWT 94:8 µS 9 VBW 300 kHz       Mode Auto FFT         Count: 300/300         91 Rk View       M1[1]       -5.83 dBr         10 dBm       M1[1]       -5.83 dBr         0 dBm       M1[1]       -5.83 dBr         -10 dBm       M1[1]       -5.83 dBr	m tz m
Date: 25.MAR.2022. 04:11:53	m tz m
Date: 25.MAR.2022. 04:11:53	mi tz 12
Date: 25.MAR.2022 04:11:53         2DH5_Ant1_High_2480         Spectrum         Ref Level 20.00 dBm Offset 9:80 dB = RBW 100 kHz         Att 30 dB SWT 9:4.8 µs = VBW 300 kHz         Mode Auto FFT         Count 300/300         ● IPk View       M1[1]       -5.83 dBr         0 dBm       M2[1]       -5.1.01 dBr         -10 dBm       M1       -2.493500 GH         -20 dBm       01       -25.83 dBm         -30 dBm       01       -25.83 dBm         -30 dBm       01       -25.83 dBm         -30 dBm       01       -5.83 dBm         -30 dBm       01       -5.83 dBm	mi tz 12
Date: 25.MAR.2022. 04:11:53	mi tz 12
Date: 25.MAR.2022. 04:11:53         DDETS: 25.MAR.2022. 04:11:53         DDETS: 25.MAR.2022. 04:11:53         Spectrum         Ref Level 20.00 dbm Offset 9:80 db @ RBW 100 kHz         Att 30.048 WT 94.8 µS @ VBW 300 kHz         Mode Auto FFT         Count 300/300         @ JPk View       M1[1]       2.479900 cHz         10 dBm       M2[1]       -51.01 dBr         -10 dBm       -10 dBm       -26.930 dEm         -30 dBm       -10 dBm       -10 dBm         -10 dBm       -10 dBm       -10 dBm         M30 dBm         -00 dBm         -10 d	mi tz 12
Date: 25.MAR.2022. 04:11:53	mi tz 12
Date: 25.MAR.2022.04:11:53         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         MIT[1]         Count 300/300         ● IPk View       MI[1]       -5.83 dBr         0 dBm_MI       MI[1]       -5.83 dBr         -20 dBm_MI       -3.01 dBm_I       -3.01 dBm_I         -30 dBm_MI       -3.03 dBm_I       -4.03 dBm_I         -30 dBm_HI       -4.04 dBm_I       -4.04 dBm_I         -30 dBm_HI       -4.04 dBm_I       -4.04 dBm_I         -70 dBm_HI       -4.04 dBm_I       -4.04 dBm_I	m 12 m 12 m
Date: 25.MAR.2022. 04:11:53         DDETS: 25.MAR.2022. 04:11:53         DDETS: 25.MAR.2022. 04:11:53         Spectrum         Ref Level 20.00 dbm Offset 9:80 db @ RBW 100 kHz         Att 30.048 WT 94.8 µS @ VBW 300 kHz         Mode Auto FFT         Count 300/300         @ JPk View       M1[1]       2.479900 cHz         10 dBm       M2[1]       -51.01 dBr         -10 dBm       -10 dBm       -26.930 dEm         -30 dBm       -10 dBm       -10 dBm         -10 dBm       -10 dBm       -10 dBm         M30 dBm         -10 d	m 12 m 12 m
Date: 25 MAR.2022 04:11:53         2DH5_Ant1_High_2480         Spectrum         Ref Level 20:00 dBm Offset 9:80 dB = RBW 100 kHz         Att 30 dB SWT 9:4.8 µs = VBW 300 kHz         Made Auto FFT         Count 300/300         ● IPk View       M1[1]       -5.83 dBr         10 dBm       M2[1]       -51.01 dBr         -0 dBm       M1       -2.439500 GH         -30 dBm       M1       -3.03 dBr         -30 dBm       M1       -3.03 dBr         -30 dBm       M2       -4.43         -30 dBm       M2       -5.93 dBr         -30 dBm       M2       -5.93 dBr         -30 dBm       -1.0 dBm       -3.25 830 dBr         -30 dBm       -1.25 830 dBr       -3.25 830 dBr         -30 dBm       -1.25 830 dBr       -1.25 830 dBr         -70 dBm       -1.25 830 dBr       -1.25 830 dBr         Type [Ref Trc] X-value	m 12 m 12 m
Date: 28.MAR.2022. 04:11:53         DDES_ANT1_High_2480         Spectrum         Ref Level 20.00 dbm       Offset 9:80 db @ RBW 100 Hz         Att       30 dbm       MI[1]       -5.83 dbm         MI[1]       -5.83 dbm         Offset 9:80 db @ RBW 100 Hz       Mode Auto FFT         Count 300/300       MI[1]       -5.83 dbm         0 dbm       M1       2.47990 GH       -5.83 dbm       -5.10 dbm       -5.30 dbm	m 12 m 12 m
Date: 28.MAR.2022.04:11:53         DDES_ANT1_High_2480         Spectrum         Ref Level 20.00 dbm       Offset 9:80 db @ RBW 100 Hz         Att       30 db       MI[1]       -5.83 dbr         Offset 9:80 db @ RBW 100 Hz         Made Auto FFT         Count 300/300         Offset 9:80 db       MI[1]       -5.83 dbr         Offset 9:80 dbm       MI[1]       -5.83 dbr         O dbm       MI[1]       -5.83 dbr         -0 dbm       -0 dbm       -0 dbm         -0 dbm       -0 dbm       -0 dbm         -0 dbm       -0 dbm       -0 dbm       -0 dbm         -70 dbm       -0 dbm	

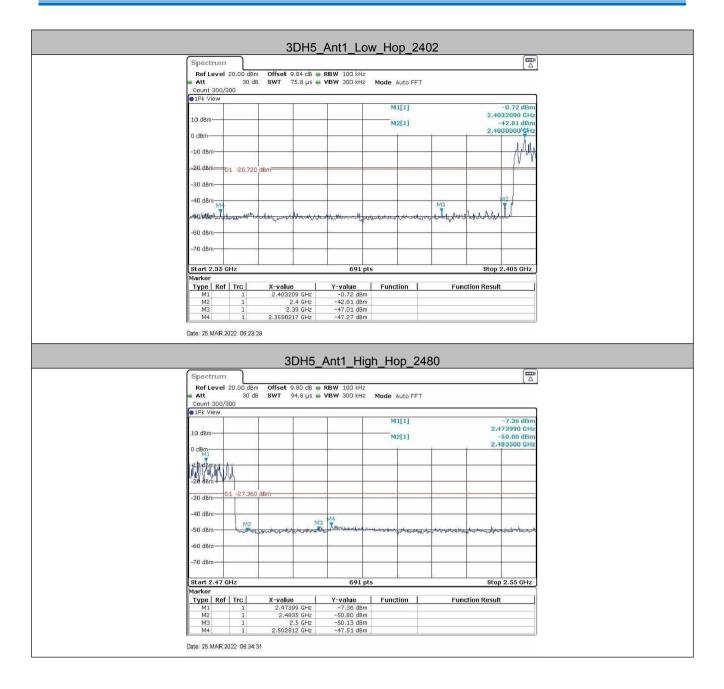


		2DH5	Ant1 Low	v_Hop_240	)2		
Spectru	n						
Ref Lev	el 20.00 dBm (	Offset 9.84 dB 🖷	RBW 100 kHz				
Att Count 30	30 dB 💲	<b>SWT</b> 75.8 µs 👄	VBW 300 kHz	Mode Auto FFT			
Count 30 1Pk View							
				M1[1]			-4.10 dBm
10 dBm				M2[1]			1300 GHz 14.32 dBm
				MZ[1]		2,400	00000 GHz
0 dBm							, T
-10 dBm-							Mont
-20 dBm-			_				and the second s
	D1 -24.100 dBn	n		- <sup>-</sup> N			
-30 dBm-							
-40 dBm-	M4				-	P	12
, bardent	J.N. Mark	N Mar	he have	Albert Latter a	MB	. I mil i	M
	on Al ne above	- Annual Colorda	an summer and the	and and a state of the second	and a second and a second and	And a warde	c.u.w.
-60 dBm				÷.			
-70 dBm—							
Start 2.3	ő GHz		691 pts			Stop 2	.405 GHz
Marker	of Trol	V-ualuo I	V-ualue I	Eurotice 1	Euro-t	ion Bornt	
Type R M1	1	X-value 2.40313 GHz	Y-value -4.10 dBm	Function	Funct	ion Result	
M2 M3	1	2.4 GHz 2.39 GHz	-44.32 dBm -51.55 dBm				
IMI3		2.39 GHz 2.3570942 GHz	-46.09 dBm				
Date: 25.MAI	8.2022 06:14:05				20		
Date: 25.MA	11	2DH5_	Ant1_Higl	h_Hop_248	30		
Date: 25.MAI Spectru Ref Lev	R.2022 06:14:05	2DH5_	Ant1_High		80		
Date: 25.MAI Spectru Ref Lev Att Count 30	2.2022 06:14:05	2DH5_	Ant1_High		30		
Date: 25.MAI Spectru Ref Lev Att	2.2022 06:14:05	2DH5_	Ant1_High	Mode Auto FFT	30		]
Date: 25.MAI Spectru Ref Lev Att Count 30	2.2022 06:14:05	2DH5_	Ant1_High	Mode Auto FFT	30	2.47	-6.77 dBm 72840 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 IR: View 10 dBm-	2.2022 06:14:05	2DH5_	Ant1_High	Mode Auto FFT	30	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI Spectru Ref Lev Att Count 30	2.2022 06:14:05	2DH5_	Ant1_High	Mode Auto FFT	80	2.47	-6.77 dBm 72840 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 IR View 10 dBm 0 dBm	2222 06:14:05	2DH5_	Ant1_High	Mode Auto FFT	80	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI Spectru Ref Lev Att Count 30 IPk View 10 dBm LevbBmt	2222 06:14:05	2DH5_	Ant1_High	Mode Auto FFT	30	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI Spectru Ref Lev Att Count 30 IR View 10 dBm 0 dBm	22022 06:14:05	2DH5	Ant1_High	Mode Auto FFT	80	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI Spectru Ref Lev Att Count 30 IPk View 10 dBm LevbBmt	2222 06:14:05	2DH5	Ant1_High	Mode Auto FFT	80	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI Spectru Ref Lev Att Count 30 IPK View 10 dBm- 4 gBm- - 4.0 dBm- 20 dBm- -30 dBm-	22022 06:14:05	2DH5	Ant1_High	Mode Auto FFT	80	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI	2.2022 06:14:05	2DH5	Ant1_High	Mode Auto FFT	80	2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI Spectru Ref Lev Att Count 30 IPK View 10 dBm- 4 gBm- - 4.0 dBm- 20 dBm- -30 dBm-	22022 06:14:05	2DH5	Ant1_High	Mode Auto FFT		2.47	-6.77 dBm 72840 GHz i 1.34 dBm
Date: 25.MAI	2.2022 06:14:05	2DH5_ Offset 9.80 dB • SWT 94.8 µ5 •	Ant1_High	Mode Auto FFTM1[1]M2[1]		2.47	-6.77 dBm 72840 GHz 51.34 dBm 33500 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 IPk View 10 dBm- 10 dBm- -10 dBm- -30 dBm- -40 dBm-	2.2022 06:14:05	2DH5_ Offset 9.80 dB • SWT 94.8 µ5 •	Ant1_High	Mode Auto FFTM1[1]M2[1]		2.47	-6.77 dBm 72840 GHz 51.34 dBm 33500 GHz
Date: 25.MAI	2.2022 06:14:05	2DH5_ Offset 9.80 dB • SWT 94.8 µ5 •	Ant1_High	Mode Auto FFTM1[1]M2[1]		2.47	-6.77 dBm 72840 GHz 51.34 dBm 33500 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 ID dBm 0 gBm -RofBm 20 dBm -30 dBm -50 dBm -70 dBm	2.2022 06:14:05	2DH5_ Offset 9.80 dB • SWT 94.8 µ5 •	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] Magnetic property for		2.43 -2 2.46	-6.77 dBm /2840 GHz 1.34 dBm /3500 GHz
Date: 25.MAI	2.2022 06:14:05	2DH5_ Offset 9.80 dB • SWT 94.8 µ5 •	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] Magnetic property for		2.43 -2 2.46	-6.77 dBm 72840 GHz 51.34 dBm 33500 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 IPR View 10 dBm	2.2022 06:14:05	2DH5_ Offset 9.80 d8 SWT 94.8 µ5 	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] Monte property		2.47 -5 2.44 	-6.77 dBm /2840 GHz 1.34 dBm /3500 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 IRk View 10 dBm- 0 dBm- -20 dBm- -30 dBm- -40 dBm- -50 dBm- -50 dBm- -50 dBm- -70 dBm-	2,2022 06:14:05	2DH5_ Offset 9.80 dB SWT 94.8 μs SWT 94.8 μs	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] Magnetic property for		2.43 -2 2.46	-6.77 dBm /2840 GHz 1.34 dBm /3500 GHz
Date: 25.MAI Spectru Ref Lev Ref Lev 10 dBm- 0 gBm- 10 dBm- 20 dBm- 40 dBm- -50 dBm- -50 dBm- -50 dBm- -70 dBm- Type [ R Marter Type [ R Marter 	2.2022 06:14:05	2DH5_ Offset 9.80 d8 swit 94.8 µ5 set swit 94.8 µ5 set 1.11111111111111111111111111111111111	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] Monte property		2.47 -5 2.44 	-6.77 dBm /2840 GHz 1.34 dBm /3500 GHz
Date: 25.MAI Spectru Ref Lev Att Count 30 IRk View 10 dBm -0 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm	2,2022 06:14:05	2DH5_ Offset 9.80 dB SWT 94.8 μs SWT 94.8 μs	Ant1_High	Mode Auto FFT M1[1] M2[1] M2[1] Monte property		2.47 -5 2.44 	-6.77 dBm /2840 GHz 1.34 dBm /3500 GHz



3DH5 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	
IPk View	
10 dBm	
MZ[1] -40.10 UB/M	
0 dBm	
-10 dBm	
-20-d8m-D1 -20.450 d8m-	
-30 dBm	
-40 dBm	
15948th Lecon and from the marker of a second ward and the standing of the	
-60 dBm-	
-70 dBm	
*/U UDIII	
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 -0.45 dBm	
M2         1         2,4 GHz         -40,10 dBm           M3         1         2,39 GHz         -44.50 dBm	
M4         1         2.3999783 GHz         -42.81 dBm           Date:         25.MAR.2022         04:23:20	
Date: 25.MAR 2022 04:23:20 3DH5_Ant1_High_2480	
Date: 25.MAR 2022 04.23.20	
Date: 25.MAR 2022 04-23:20           3DH5_Ant1_High_2480           Spectrum           Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz           Att 30 dB SWT 94.8 US VBW 300 kHz	
Date: 25.MAR.2022: 04-23:20 3DH5_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 © JPL View	
Date: 25.MAR.2022: 04-23:20 3DH5_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 PIR View MI[1] 2-5.88 dBm PIR View MI[1] 2-5.88 dBm	
Date: 25.MAR 2022 04-23:20 <b>3DH5_Ant1_High_2480</b> 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 10 dBm M1[1]   2.480 250 GHz 2.480 250 GHz 10 dBm M2[1]   -5.88 dBm 10 dBm M2[1]   -5.88 dBm	
Date: 25.MAR.2022 04-23:20 3DH5_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 13 d/m 13 d/m 14 d/m 14 d/m 14 d/m 14 d/m 15 d/m 14 d/m 14 d/m 15 d/m 14 d/m 15 d/m 15 d/m 16 d/m 17 d/m 17 d/m 18 d/m 18 d/m 19 d/m 19 d/m 19 d/m 10	
Date: 25.MAR.2022: 04:23:20 <b>3DH5_Ant1_High_2480</b> Spectrum         Mage Lavel 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         ID dBm       M1[1]         10 dBm         M2[1]         2.480250 GHz         M2[1]         2.480250 GHz	
Date: 25.MAR 2022 04:23:20	
Date: 25.MAR 2022 04:23:20 <b>3DH5_Ant1_High_2480</b> 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 ● IFk View 10 dBm M2[1] 2:480250 GHz -10 dBm M2[1] 2:480500 GHz -20 dBm 01 25:880 dBm	
Date: 25.MAR.2022: 04:23:20         SDH5_Ant1_High_2480         Spectrum         Ref Level 20.00 dBm         Offset 9:80 dB @ RBW 100 kHz         Aut 30 dB SWT 94.8 µs @ VBW 300 kHz         Mode Auto FFT         Count 300/300         © LPK View         10 dBm       M2[1]       -51.81 dBm         -10 dBm       M2[1]       2.480500 GHz         -20 dBm       Mark and a data and	
Date: 25.MAR.2022: 04:23:20         Spectrum         Cont         Ref Level 20:00 dBm         Offset 9:80 dB         Not dB         Offset 9:80 dB         Not dB         Offset 9:80 dB </td <td></td>	
Date: 25.MAR.2022 04:23:20 <b>3DH5_Ant1_High_2480</b> Spectrum         Cont: 30.06 Bm Offset 9:80.dB @ RBW 100 kHz         Att 30.06 BWT 94.8 µs @ VBW 300 kHz Mode Auto FFT         Count: 300/300         MI[1]         -5.88 dbm         MI[1]         0 dbm         MI[1]         -20.08 dbm	
Date: 25.MAR.2022: 04:23:20         Spectrum         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         M1[1]         0 dbm M1[1]         0 dbm M2[1]         -5.88 dbm         -0 dbm M2[1]         -0 dbm M2[1]         -0 dbm M1[1]         -0 dbm M2[1]         -0 dbm M2[1]         -0 dbm M3         M44         -0 dbm M4         -0 dbm M3         -0 dbm M3         -0 dbm M4         -0 dbm M3         -0 dbm M3         -0 dbm M4         -0 dbm M3         -0 dbm M3	
Date: 25.MAR.2022. 04:23:20         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         MI[1]         0 dbm 01 ested with the second s	
Date: 25.MAR.2022: 04:23:20         Spectrum         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         M1[1]         0 dbm M1[1]         0 dbm M2[1]         -5.88 dbm         -0 dbm M2[1]         -0 dbm M2[1]         -0 dbm M1[1]         -0 dbm M2[1]         -0 dbm M2[1]         -0 dbm M3         M44         -0 dbm M4         -0 dbm M3         -0 dbm M3         -0 dbm M4         -0 dbm M3         -0 dbm M3         -0 dbm M4         -0 dbm M3         -0 dbm M3	
Date: 25.MAR.2022 04:23:02         Spectrum       Image: Control of the state of t	
Date: 25.MAR.2022 04:23:28         Spectrum         Ref Level 20.00 dbm       Offset 9.80 db = RBW 100 kHz         Att 300/300         Outs 300/300         O dbm       M1[1]         2.4680250 GHz         -5.88 dbm         0 dbm       M1[1]         2.4680250 GHz         -51.31 dbm         0 dbm       M1[1]         2.4680250 GHz         -51.31 dbm         0 dbm       M1[1]         2.4680250 GHz         -51.88 dbm       M1[1]         2.4680250 GHz         -51.88 dbm       -51.31 dbm         0 dbm       M1[1]       -51.84 dcm         -50 dbm       M1[1]       -51.83 dbm         -50 dbm       M1[1]       -51.83 dbm         -30 dbm       M1[1]       -51.83 dbm         -30 dbm       M1[1]       -51.83 dbm         -50 dbm       M1[1]       -51.83 dbm <tr< td=""><td></td></tr<>	
Date: 25.MAR.2022 04:23:28         Spectrum       Image: Control of Set 9:80 dB @ RBW 100 kHz         Att       30 dB WT 94.8 µS @ VBW 300 kHz       Mode Auto FFT         Control of Jobs       SWT 94.8 µS @ VBW 300 kHz       Mode Auto FFT         Control of Jobs       MI[1]       2.480200 cHz         0 dBm       MI       MI[1]       2.48020 cHz         -10 dBm       MI       MI[1]       2.480500 cHz         -20 dBm       MI       MI       2.480500 cHz         -30 dBm       MI       MI       2.480500 cHz         -10 dBm       MI       MI       MI         -20 dBm       MI       MI       MI         -30 dBm       MI	
be 25 MAR 2022 04 25 MAR Babel 20:00 dBm Offset 9:80 dB @ RBW 100 kHz At 30 dB SWT 94.8 µS @ VBW 300 kHz Mode Auto FFT Count 30/300 PIK View MI[1] 2.480250 GHz 0 dBm M2[1] 2.480250 GHz 0 dBm M2[1] 2.480250 GHz 0 dBm M2[1] 2.480350 GHz 0 dBm M3 M4 0 dBm M4	
Date: 25.MAR.2022 04:23:05         Spectrum         Ref Level 20.00 dbm       Offset 9:80 db e RBW 100 kHz         Att: 30:0300       SWT 94.8 µs * VBW 300 kHz       Mode Auto FFT         Count of the first 9:80 db e RBW 100 kHz       -5.88 dbm         0 dbm       M1[1]       2.480250 GHz         0 dbm       M2[1]       -51.31 dbm         0 dbm       M2[1]       -51.31 dbm         -30 dbm       M4       M4       -55.88 dbm         -30 dbm       M2[1]       -51.31 dbm         -30 dbm       M1[1]       2.480250 GHz         -30 dbm       M1[1]       2.480250 GHz         -30 dbm       M4       M4         View       M5       M4	







# 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 $\pi$ /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type.				
Test Results:	Pass				



