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. : Applicant: Address of Applicant:	CQASZ20220200258E-01 KINGTA TECHNOLOGY CO., LTD Floor 2, Building 10/Floor 4, Building 9, Futing industrial zone, Zhucun, Guanlan, Longhua, Shenzhen, China
Equipment Under Test (E	UT):
Product:	Bluetooth Speaker
Model No.:	BT138P, HEYSONG REVERB, TY-WSP102
Test Model No.:	BT138P
Brand Name:	N/A
FCC ID:	N7KBT138P
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2022-02-24
Date of Test:	2022-02-24 to 2022-04-19
Date of Issue:	2022-05-31
Test Result :	PASS*

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

lewis 2hOU (Lewis Zhou) Tested By: K. Liao Reviewed By: (KLiao) Approved By: (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
CQASZ20220200258E-01	Rev.01	Initial report	2022-05-31



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	



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4 General Information

4.1 Client Information

Applicant:	KINGTA TECHNOLOGY CO., LTD		
	Floor 2, Building 10/Floor 4, Building 9, Futing industrial zone, Zhucun,		
Address of Applicant:	Guanlan, Longhua, Shenzhen, China		
Manufacturer:	KINGTA TECHNOLOGY CO., LTD		
Address of Manufacturer:	Floor 2, Building 10/Floor 4, Building 9, Futing industrial zone, Zhucun, Guanlan, Longhua, Shenzhen, China		
Factory:	KINGTA TECHNOLOGY CO., LTD		
Address of Factory:	Floor 2, Building 10/Floor 4, Building 9, Futing industrial zone, Zhucun, Guanlan, Longhua, Shenzhen, China		

4.2 General Description of EUT

Product Name:	Bluetooth Speaker
Model No.:	BT138P, HEYSONG REVERB, TY-WSP102
Test Model No.:	BT138P
Trade Mark:	N/A
Software Version:	BT138P-V1.0
Hardware Version:	BT138P-M-AB5323B-V2
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Product Type:	☐ Mobile
Test Software of EUT:	BT Tool
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	Li-ion battery: DC 3.7V 5000mAh, Charge by DC 5V for adapter



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:	 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)	Class2 (Power level is built-in set parameters and cannot be changed and		
Use test software to set the lo	west frequency, the middle frequency and	the highest frequency keep		
transmitting of the EUT.				
Mode	Channel	Frequency(MHz)		
	СНО	2402		
DH1/DH3/DH5	СН39	2441		
	CH78	2480		
	СНО	2402		
2DH1/2DH3/2DH5	СН39	2441		
	CH78	2480		
	СН0	2402		
3DH1/3DH3/3DH5	СН39	2441		
	CH78	2480		

Run Software:

BT_Tool COMx Baudrate			<u>4449</u>		×
Classic BLE					
Test Mode					
FCC Test 🖲	Remote I	BT address			
CBT Test 🔿		55555	Sto		
RF Control					
RF Mode	TX TEST \sim	Packet Type	DH5	~	
Hopping	off v	TX Frequency	2402	~	
TX Power	4 ~	RX Frequency	2402	\sim	
Scenario	PRBS Pattern	n		~	
LOG: FCC tes LOG: [COM4] LOG: BR/EDR	open, 1500000	gqq			~
					9
COM4 is open		1500000bps			



4.4 Test Environment

Operating 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
Adapter	MI	1	1	CQA



4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** quality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

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

Hereafter the best measurement capability for CQA laboratory is reported:



4.7 Test Location

All tests were performed at:

Shenzhen Huaxia Testing Technology Co., Ltd.

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

4.8 Test Facility

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

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

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

CNAS (No. CNAS L5785)

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

• A2LA (Certificate No. 4742.01)

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

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.:522263

4.9 Abnormalities from Standard Conditions

None.

4.10 Other Information Requested by the Customer

None.



4.11 Equipment List

			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

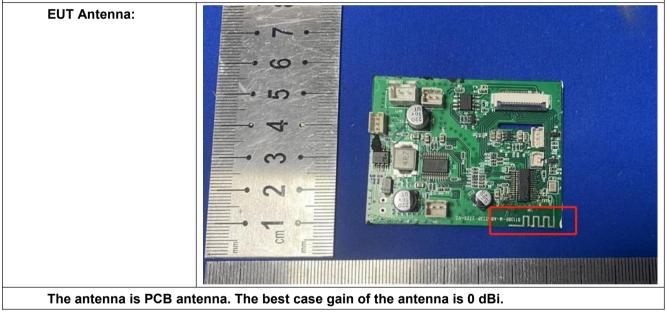
Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

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.







5.2 Conducted Emissions

Conducted Linissio			
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 Procedure:	 The mains terminal disturbation in the EUT was connected to a maximum 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 placed on the horizontal grading on the horizontal grading on the EUT shall be 0.4 mm vertical ground reference plane. The LISN unit under test and bonded mounted on top of the grad between the closest points the EUT and associated extensional and all of the in ANSI C63.10: 2013 on control of the c	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 et 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 ref from the vertical ground blane was bonded to the 1 was placed 0.8 m fro to a ground reference and 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 + 5Ω lin 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 we ference plane. The read d reference plane. The read d reference plane. The read d reference plane. The read d reference plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2 we positions of
Test Setup:	Shielding Room	AE USN2 + AC Ma Ground Reference Plane	Test Receiver

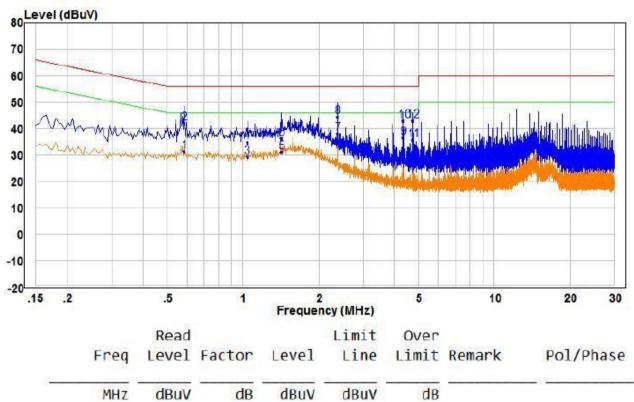


Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of
	data type at the lowest, middle, high channel.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation at the lowest channel is the worst case. Only the worst case is recorded in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



Measurement Data

Live line:



1	0.585	21.59	9.68	31.27	45.00	-14.73	Average	Line
2	0.585	32.27	9.68	41.95	56.00	-14.05	QP	Line
3	1.040	19.69	9.53	29.22	46.00	-16.78	Average	Line
4	1.040	25.12	9.53	34.65	56.00	-21.35	QP	Line
5	1.425	21.48	9.52	31.00	46.00	-15.00	Average	Line
6	1.425	26.86	9.52	36.38	56.00	-19.62	QP	Line
7 PP	2.380	28.49	9.56	38.05	46.00	-7.95	Average	Line
8 QP	2.380	34.82	9.56	44.38	56.00	-11.62	QP	Line
9	4.360	26.97	9.70	36.67	46.00	-9.33	Average	Line
10	4.360	33.11	9.70	42.81	56.00	-13.19	QP	Line
11	4.760	25.88	9.73	35.61	46.00	-10.39	Average	Line
12	4.760	33.34	9.73	43.07	56.00	-12.93	QP	Line

Remark:

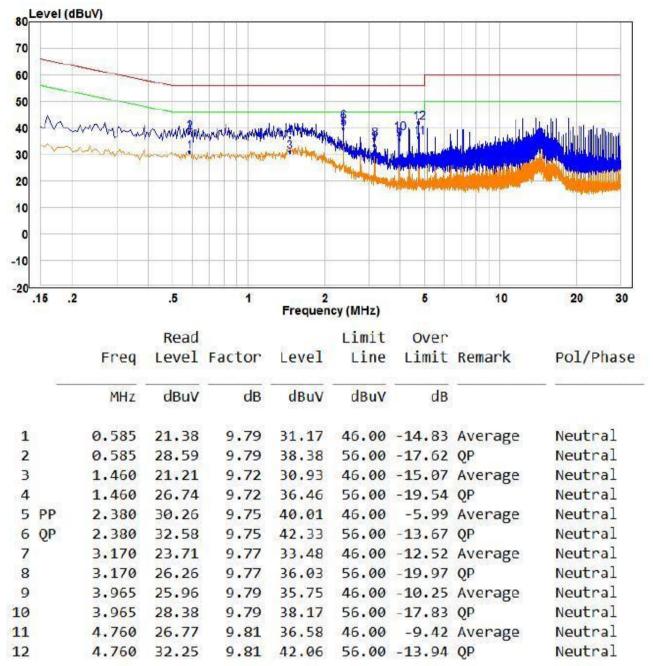
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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.







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	1.32	21.00	Pass
Middle	1.49	21.00	Pass
Highest	2	21.00	Pass
	π/4DQPSK m	ode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	1.47	21.00	Pass
Middle	1.72	21.00	Pass
Highest	2.16	21.00	Pass
	8DPSK mod	le	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	1.36	21.00	Pass
Middle	1.81	21.00	Pass
Highest	2.57	21.00	Pass



Test plot as follows:

				DH5_Ar					
Spectrum									(
Ref Level	30.00 dBm			RBW 3 MH					
Att Count 100/	Att 40 dB SWT 1.3 µs ● VBW 10 MHz Mode Auto Count 100/100 ● 1Pk View					Auto FFT			
TLK AIGM					M	1[1]			1.32 d
						2.40235160 GHz			
20 dBm-									
10 dBm-									
0 dBm					M1				
U UBIII-							1		
-10 dBm-	/			2)		8		1	-
									1
-20 dBm-						2			
-30 dBm	-				10	-			
-40 dBm				6	1	8	8		35
-50 dBm		0	6	0	2	- 22	-		1
CO dBm									
-60 dBm				-					80
	505251F			-					
CF 2.402 G		15	Ē		1 pts	41		St	oan 8.0 Mł
	2022 10:10:1	15	Ē	 DH5_Ar		41		St	
Date: 18.APR.2 Spectrum Ref Level	2022 10:10:1	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_244			St	oan 8.0 MH
Date: 18.APR 2	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar	nt1_244			St	
Spectrum Ref Level Att Count 100/	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_244			<u> </u>	
Date: 18.APR 2	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_24 ^z Mode /				1.49 di
Date: 18.APR 2 Spectrum Ref Level • At Count 100/ • 1Pk View	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_24 ^z Mode /	Auto FFT			(
Spectrum Ref Level Att Count 100/	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level • At Count 100/ • 1Pk View	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT	Í		1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄)H5_Ar ₨₩ зм⊦	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm -10 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level • Att Count 100/ • IPk View 20 dBm 10 dBm 0 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level • Att Count 100/ • IPk View 20 dBm 10 dBm -10 dBm -20 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm -10 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level • Att Count 100/ • IPk View 20 dBm 10 dBm -10 dBm -20 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ IPk View 20 dBm 10 dBm -10 dBm -30 dBm -40 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ IPk View 20 dBm 10 dBm -10 dBm -30 dBm -40 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	2022 10:10:1 1 1 30.00 dBm 40 dB	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT			1.49 di
Date: 18.APR 2 Spectrum Ref Level Att Count 100/ 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm	2022 10:10:1	n Offset !	9.80 dB 👄	DH5_Ar	nt1_24 ^z Mode /	Auto FFT		2.4	1.49 di



	DH5_Ant1_2480		
Spectrum	DH3_AII(1_2400		
Spectrum Ref Level 30.00 dBm Offset 9.80 dB	e RBW 3 MHz		
 Att 40 dB SWT 1.3 μs Count 100/100 	VBW 10 MHz Mode Auto FFT		
● 1Pk View			
	M1[1]	2.00 dBm 2.48037560 GHz	
20 dBm			
10 dBm			
10 ubii	M1		
0 dBm			
-10 dBm			
-20 dBm			
-30 dBm			
-40 dBm			
-50 dBm			
-60 dBm			
CF 2.48 GHz	1001 pts	Span 8.0 MHz	
Date: 18.APR.2022 10:10:48			
	2DH5_Ant1_2402		
Spectrum	2DH5_Ant1_2402		
Spectrum RefLevel 30.00 dBm Offset 9.84 dB Att 40 db SWT 1.3 µs	2DH5_Ant1_2402 • RBW 3 MHz • VBW 10 MHz Mode Auto FFT		
Spectrum Ref Level 30.00 dBm Offset 9.84 dB	RBW 3 MHz VBW 10 MHz Mode Auto FFT		
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100	RBW 3 MHz	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100	RBW 3 MHz VBW 10 MHz Mode Auto FFT		
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100 IIR View IIII view IIII view 20 dBm IIII view IIII view IIII view	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100 IIR View IIII view IIII view 20 dBm IIII view IIII view IIII view	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100 0 1Pk View 0 20 dBm 10 dBm 0 0 0	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30,00 dBm Offset 9,84 dB Att 40 dB SWT 1.3 µs Count 100/100 1.18 µs 1.0 dBm 10 dBm 10 dBm 1.10 dBm 1.10 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 µs Count 100/100 0 1Pk View 0 20 dBm 10 dBm 0 0 0	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB Swr 1.3 µS Count 100/100 9.84 dB 10 dBm 0 dBm -10 dBm -20 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 ps Count 100/100 12k View 20 dBm 10 dBm 10 dBm -10 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB Swr 1.3 µS Count 100/100 9.84 dB 10 dBm 0 dBm -10 dBm -20 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30,00 dBm Offset 9,84 dB Att 40 dB SWT 1.3 µS Count 100/100 1Pk View 20 dBm 10 dBm 10 dBm 0 dBm -30 dBm -40 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 ps Count 100/100 12k View 20 dBm 0 10 dBm 0 -10 dBm -20 dBm -30 dBm -30 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30,00 dBm Offset 9,84 dB Att 40 dB SWT 1.3 µS Count 100/100 1Pk View 20 dBm 10 dBm 10 dBm 0 dBm -30 dBm -40 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 ps Count 100/100 11k View 20 dBm 10 dBm 10 dBm 10 dBm -10 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm 2.40237560 GHz	
Spectrum Ref Level 30.00 dBm Offset 9.84 dB Att 40 dB SWT 1.3 ps Count 100/100 1.18 ps 10 dBm 10 dBm 10 dBm 10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -50 dBm -50 dBm	RBW 3 MHz VBW 10 MHz Mode Auto FFT	1.47 dBm	



	2DH5_Ant1_2441		
Chaothum	2010_Anti_2441		
Ref Level 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			
LIK VISW	M1[1]	1.72 dBm	
22.42-		2.44066430 GHz	
20 dBm			
10 dBm			
	MI		
0 dBm			
-10 dBm			
-20 dBm			
20 0011			
-30 dBm			
-40 dBm			
-50 dBm			
-50 ubin			
-60 dBm			
CF 2.441 GHz	1001 pts	Span 8.0 MHz	
Date: 18.APR.2022 10:11:50			
	2DUE Ant 2400		
Spectrum	2DH5_Ant1_2480		
Ref Level 30,00 dBm Offset 9,80 Att 40 dB SWT 1.3 Count 100/100	2DH5_Ant1_2480		
Ref Level 30.00 dBm Offset 9.80	dB ● RBW 3 MHz µs ● VBW 10 MHz Mode AutoFFT		
RefLevel 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 PIPk View	dB 🖷 RBW 3 MHz	2.16 dBm 2.480398360 GHz	
Ref Level 30,00 dBm Offset 9,80 Att 40 dB SWT 1.3 Count 100/100	dB ● RBW 3 MHz µs ● VBW 10 MHz Mode AutoFFT	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 1.3 1.3 P1Pk View 1.3 1.3 20 dBm 1.3 1.3	dB ● RBW 3 MHz µs ● VBW 10 MHz Mode AutoFFT	2.16 dBm	
RefLevel 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 PIPk View	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 1.3 1.3 P1Pk View 1.3 1.3 20 dBm 1.3 1.3	dB ● RBW 3 MHz µs ● VBW 10 MHz Mode AutoFFT	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 00 00 00 91Pk View 20 dBm 10 dBm 10 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 00 00 00 91Pk View 20 dBm 10 dBm 10 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 20 dBm 10 dBm 10 dBm 10 dBm -10 dBm -10 dBm -10 dBm -10 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 91Pk View 91Pk View 20 dBm 910 dBm 910 dBm 910 dBm 10 dBm 91 dBm 91 dBm 91 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 91Pk View 91Pk View 20 dBm 0 0 91Pk 91Pk View 20 dBm 910 dBm 910 dBm 910 dBm 910 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 20 dBm 10 dBm 10 dBm 10 dBm -10 dBm -10 dBm -10 dBm -10 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 91Pk View 91Pk View 20 dBm 0 0 91Pk 91Pk View 20 dBm 910 dBm 910 dBm 910 dBm 910 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 91Pk View 91Pk View 91Pk View 20 dBm 0 dBm 91Pk View 91Pk View 91Pk View 91Pk View 10 dBm 91Pk View 91Pk View 91Pk View 91Pk View 91Pk View 20 dBm 91Pk View 91Pk View 91Pk View 91Pk View 91Pk View 10 dBm 91Pk View 91Pk View	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 20 dBm 10 dBm 10 dBm 10 dBm 0 dBm -20 dBm -30 dBm	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 20 dBm 10 20 dBm 0 dBm 10 dBm 10 10 dBm -0 dBm -0 dBm -0 dBm -10 dBm -10 dBm -30 dBm -30 dBm -40 dBm -50 -50 dBm -50 -50 dBm -50 -50 -50 -20 <	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 91Pk View 91Pk View 91Pk View 20 dBm 0 dBm 91Pk View 91Pk View 91Pk View 91Pk View 10 dBm 91Pk View 91Pk View 91Pk View 91Pk View 91Pk View 20 dBm 91Pk View 91Pk View 91Pk View 91Pk View 91Pk View 10 dBm 91Pk View 91Pk View	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 20 dBm 10 10 dBm 0 dBm 10 dBm 10 -10 dBm -20 dBm -30 dBm -50 dBm -50 dBm -60 dBm -	dB RBW 3 MH2 µs VBW 10 MH2 Mode Auto FFT M1[1] M1 M1 M1	2.16 dBm 2.48098360 GHz	
Ref Level 30.00 dBm Offset 9.80 Att 40 dB SWT 1.3 Count 100/100 91Pk View 20 dBm 10 20 dBm 0 dBm 10 dBm 10 10 dBm -0	dB RBW 3 MHz µs VBW 10 MHz Mode Auto FFT M1[1]	2.16 dBm	



	3DH5 A	nt1_2402		
Spectrum				
1942 B	Offset 9.84 dB 👄 RBW 3 M	42		
Att 40 dB	SWT 1.3 µs . VBW 10 M			
Count 100/100				
●1Pk View		M1[1]	1.36 dBm	
		mart v1	2.40165630 GHz	
20 dBm				
10 dBm				
	M1			
0 dBm				
-10 dBm				
-10 0.811				
-20 dBm				
-30 dBm				
-40 dBm				
-50 dBm		10 10 10 10 10 10 10 10 10 10 10 10 10 1		
10 10				
-60 dBm				
CF 2.402 GHz Date: 18.APR.2022 10:14:13		1 pts	Span 8.0 MHz	
Date: 18.APR.2022 10:14:13		nt1_2441		
Date: 18.APR 2022 10:14:13	3DH5_A	nt1_2441	Span 8.0 MHz	
Date: 18.APR 2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441		
Spectrum Ref Level 30.00 dbm Att Count 100/100	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441		
Date: 18.APR 2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441 ¹² ¹² Mode Auto FFT		
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 40 db Count 100/100 91Pk View	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441		
Spectrum Ref Level 30.00 dbm Att Count 100/100	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18.APR.2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB Count 100/100 IPk View 20 dBm 20 dBm	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 40 db Count 100/100 91Pk View	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB Count 100/100 1Pk View 20 dBm 10 dBm	3DH5_A offset 9.80 d8 ● RBW 3 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18.APR.2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB Count 100/100 IPk View 20 dBm 20 dBm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB Count 100/100 1Pk View 20 dBm 10 dBm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18.APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 40 dB Count 100/100 IVR View 20 dbm 10 dbm 0 dbm 0 dbm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18.APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 40 dB Count 100/100 IVR View 20 dbm 10 dbm 0 dbm 0 dbm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 40 db Count 100/100 1Pk View 20 dbm 10 dbm 10 dbm -10 dbm -10 dbm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18.APR 2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18.APR 2022 10:14:13 Spectrum Ref Level 30.00 dBm Att 40 dB Count 100/100 IPk View 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 0 40 db Count 100/100 IPk View 20 dbm 10 dbm 10 dbm -10 dbm -30 dbm -30 dbm -50 dbm -50 dbm	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13	3DH5_A offset 9.80 d8 • RBW 3 M SWT 1.3 µs • VBW 10 M	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	
Date: 18 APR 2022 10:14:13 Spectrum Ref Level 30.00 dbm Att 0 40 db Count 100/100 IPk View 20 dbm 10 dbm 10 dbm -10 dbm -30 dbm -30 dbm -50 dbm -50 dbm	3DH5_A	nt1_2441 ¹² ¹² Mode Auto FFT	(∰)].81 dBm	



Spectrum 🛱
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 M1[1] 2.57 dBm
M1[1] 2.57 dBm 2.47962440 GHz
20 dBm
10 dBm
D dBm
-10 dBm
-20 dBm-
-30 dBm
-40 dBm
-50 dBm
-50 dbm
-60 dBm
CF 2.48 GHz 1001 pts Span 8.0 MHz



5.4 20dB Occupy Bandwidth

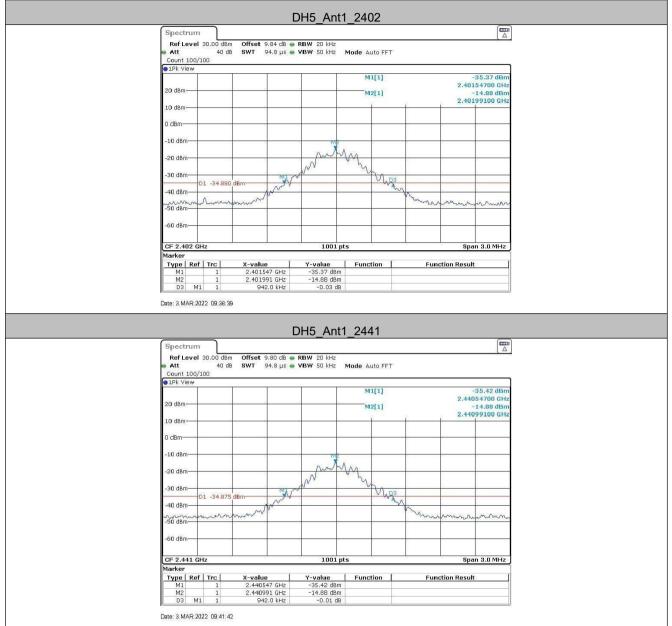
Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane
	Remark: Offset=Cable loss+ attenuation factor.
Limit:	NA
Exploratory Test Mode:	Non-hopping transmitting with all kind of modulation and 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 shannel	20	0dB Occupy Bandwidth (MH	z)
Test channel	GFSK	π/4DQPSK	8DPSK
Lowest	0.942	1.320	1.290
Middle	0.942	1.323	1.293
Highest	0.942	1.320	1.293



Test plot as follows:







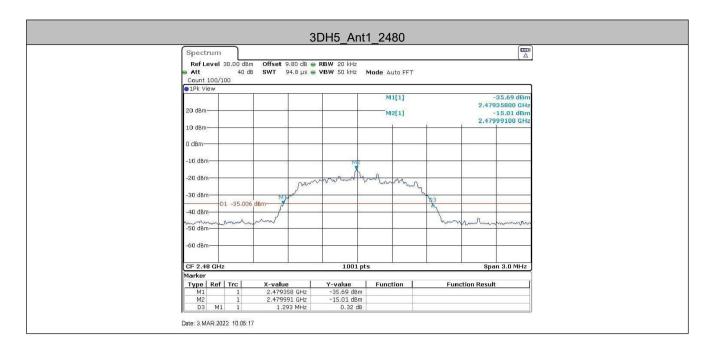














5.5 Carrier Frequencies Separation

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 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	≥0.628	PASS
2DH5	Ant1	Нор	1.003	≥0.882	PASS
3DH5	Ant1	Нор	1	≥0.862	PASS

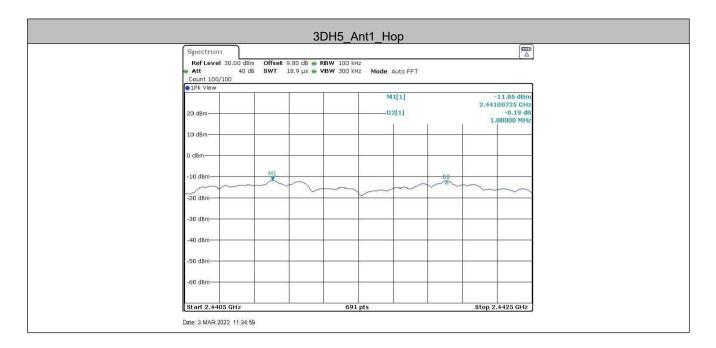
Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	0.942	≥0.628
π/4DQPSK	1.323	≥0.882
8DPSK	1.293	≥0.862



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
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:

			D	H5_Ar	nt1_Ho	р			
Spectru									
Ref Lev Att	el 30.00 dBm 40 dB	Offset 9 SWT 9		BW 100 kH BW 300 kH		Auto FFT			A
• 1Pk View							ř		
20 dBm-					10-		1	κ	
10 dBm	_						-		
0 dBm					-				
-10 dBm-						-		1000	
ADDAN	MATTAAN	tostatiant	10011401	AAAAAAA	DARAAADA	ann dan ta	RAABAAAA	ADDAADDAA	11000
-a@ dBm+	RAVAR.	Thur	MWWW.	HWWW	Median	A. R.	h Nivin	VIII NII	WWW
-30 dBm	11-111-4	nella en.		1		Anter Atta	Itarlaal	1	a . 11
^≝40 dBm—									Sub
-50 dBm—						-			
-60 dBm—							~		
-50 0811-									
Start 2.4	GHz			691	pts			Stop 2.	4835 GHz
Date: 3.MAR	.2022 10:11:46							ι Α	,
			2[DH5_A	nt1_H	ор			
Spectru									
Ref Lev Att	el 30.00 dBm 40 dB			BW 100 kH BW 300 kH		Auto FFT			
●1Pk View					r		i i	-	
20 dBm						N	8	2	
10 dBm	_				~				
0 dBm	1								
-10 dBm—									
Date	4 4 2 2 2	Addada	the backs.	ANDARAMA	ANALLAN.	. had	1. Marta	ANGAMAN	MANY
Maria	MANNA	N NN NN NN NN	he loss M	UNICORPA	R A N NAW	(programme)	MANDANA	1000000	
-20 dBm−	MANNA	N NANANA~	n.lou.llu	116.00041	And D MANE	munuu	Walnum	100000	
-20 dBm- -20 dBm-	MMMM	N olohina.	n loss (M	100.000	And DAM	าปนารสหตุ	alex la aced		
-20 dam-	MANNA	N olohoda	n.lou allu	111111111111	L	มากษา	Walnum		
-20 08/1-	MMMM	N olohida		11111111111	1.0400400	muran			
-20 dBm-		N olahin A		ul k i o o o di	1.040.01400	httradd			
-20 dBm -30 dBm -50 dBm					10000				ະ ຍ
-20 dBm -80 dBm , ⁴⁴ 0 dBm		n orașină ~			Led O DAM	unnaan			
-00 dBm ,80 dBm ,840 dBm -50 dBm									
-20 dBm- -80 dBm- ,440 dBm- -50 dBm- -60 dBm-				691					4835 GHz



3DH5_Ant1_Hop
Spectrum
RefLevel 30.00 dBm Offset 9.84 dB RBW 100 kHz
Att 40 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT 1Pk View
20 dBm
10 dBm-
0 dBm
-10 dBm
Lo am 20 and - 20 and
-50 dBm
N40 dBm
-50 dBm
-60 dBm
Start 2.4 GHz 691 pts Stop 2.4835 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

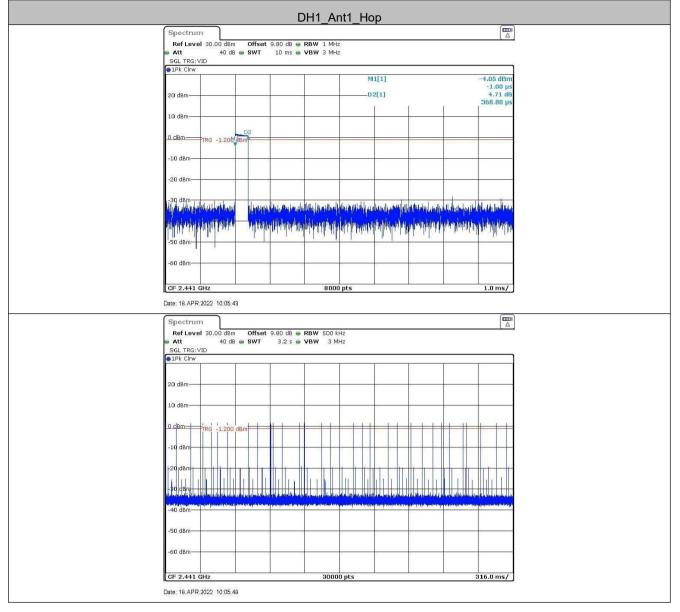
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Нор	0.37	320	0.118	≤0.4	PASS
DH3	Ant1	Нор	1.61	170	0.274	≤0.4	PASS
DH5	Ant1	Нор	2.85	110	0.313	≤0.4	PASS
2DH1	Ant1	Нор	0.38	320	0.12	≤0.4	PASS
2DH3	Ant1	Нор	1.62	170	0.276	≤0.4	PASS
2DH5	Ant1	Нор	2.86	110	0.315	≤0.4	PASS
3DH1	Ant1	Нор	0.38	330	0.124	≤0.4	PASS
3DH3	Ant1	Нор	1.62	160	0.259	≤0.4	PASS
3DH5	Ant1	Нор	2.86	110	0.315	≤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_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 P1Pk Clrw
M1[1] -5.67 dBm -1.00 μs
20 dBmD2[1] 5.62 dB 1.60895 ms
10 dBm
0 dBm Trg -1.30p(gBm
*
-10 dBm
-20 dBm
eter birlanis staten ander
e all topology to define a light of all or of she in a statistic flower.
-50 dBm
-60 dBm
CF 2.441 GHz 8000 pts 1.0 ms/
Date: 18.APR 2022 10:06:06
Spectrum 🔆
Ref Level 30.00 dBm Offset 9.80 dB ● RBW 500 kHz ● Att 40 dB ● SWT 3.2 s ● VBW 3 MHz
SGL TRG: VID
IPk Clrw
20 dBm
10 dBm
-10 dBh-
-50 dBm
-60 dBm
GF 2.441 GHz 30000 pts 316.0 ms/
Date: 18.APR 2022 10:06:11





_		
	H5_Ant1_Hop	
Spectrum Ref Level 30.00 dBm Offset 9.80 dB	BW 1 MHz	
● Att 40 dB ● SWT 10 ms ● V SGL TRG: VID		
● 1Pk Cirw	1 (1000) (1000)	
	M1[1]	-6.56 dBm -1.00 μs
20 dBm-	D2[1]	7.01 dB 2.84911 ms
10 dBm		
0 dbm	D2	
0 dBm TRG -1.400 dBm		
-10 dBm		
-20 dBm		
-30 dBm	the star plain al se , sail al per shak a bill shake	husers (Medicensed scheme det die zu schause
า มีเอง หมาไม่สุดไม่สุดแสดที่ไ	failainat Hilman Abbia Latitika in	an und detailed in airtailian die
-50 dBm	a half of the last to be at	
-60 dBm		
CF 2.441 GHz	8000 pts	1.0 ms/
Date: 18.APR.2022 10:04:28	ANDE	
Spectrum		
Ref Level 30.00 dBm Offset 9.80 dB 🖷 R		
Att 40 dB SWT 3.2 s V SGL TRG: VID	'BW 3 MHz	
●1Pk Clrw		
20 dBm		
20 dBm		
10 dBm	× *	
10 dBm TRG -1.400 dBm		
-10 dBm		
-20 dBm		
-30.dbm		
-30 dBm	المحمد والمحفول وماريقين والأبوا وليمارهن والمغرول البرق فالتربع والم	وبالملاقين ويتعارف والمعادية والمحادية
-40 gBW-	ومحمالهم وعيدوا موارك ومراكبة واللالية ومناهم ومورجون المحمد فأعدا فرطي والمريحة والمراكبة ومريده	and the second se
-50 dBm		
-60 dBm		
CF 2.441 GHz	30000 pts	316.0 ms/
CF 2.441 GHz Date: 18.APR.2022 10:04:33	30000 pts	316.0 ms/





	2041 Apt1 Hop	
Spectrum	2DH1_Ant1_Hop	
Ref Level 30.00 dBm	Offset 9.80 dB ● RBW 1 MHz ● SWT 10 ms ● VBW 3 MHz	
SGL TRG: VID	HAR SERVICE TRANSPORTED IN LINE IN DUTING	
	M1[1]	-3.03 dBm -1.00 µs
20 dBm-	D2[1]	1.47 dB 376.30 μs
10 dBm-		
0 dBm	Jen C	
-10 dBm		
-20 dBm		
-30 dBm-	والمعاظ المتلامين المالية والمراجب المرابة المتلويات والمتقرب والمتعاد العراقية والمرابعة المراجب والمحافظ ومردا وعا	la prese a separate de la presentación de la constructione
and in the property of the pro	מינה אורי שלא ערוואנים שלאורים אינקאיר אינג אינאיראלאינה (שוערעיה) או	nite for a state of the second s
-50 dBm	de more harden and and allo	
-60 dBm		
CF 2.441 GHz Date: 18.APR 2022 10:08:57	8000 pts	1.0 ms/
	Offset 9.80 dB 🖷 RBW 500 kHz	
SGL TRG: VID	● SWT 3.2 s ● VBW 3 MHz	
IPk Clrw		
20 dBm		
10 dBm		
	JBm	
-10 dBm		
-20 dBm		
	المحافظ والمحافظ والمحاور المحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ والمحافظ	
-40 dBm	ענט איז ארגע ארגע איז	معديد المعادية المعادية معادية معادية معادية عادية عن المعادية المعادية المعادية المعادية المعادية المعادية ال المعادية
-50 dBm		
-60 dBm		
CF 2.441 GHz	30000 pts	316.0 ms/

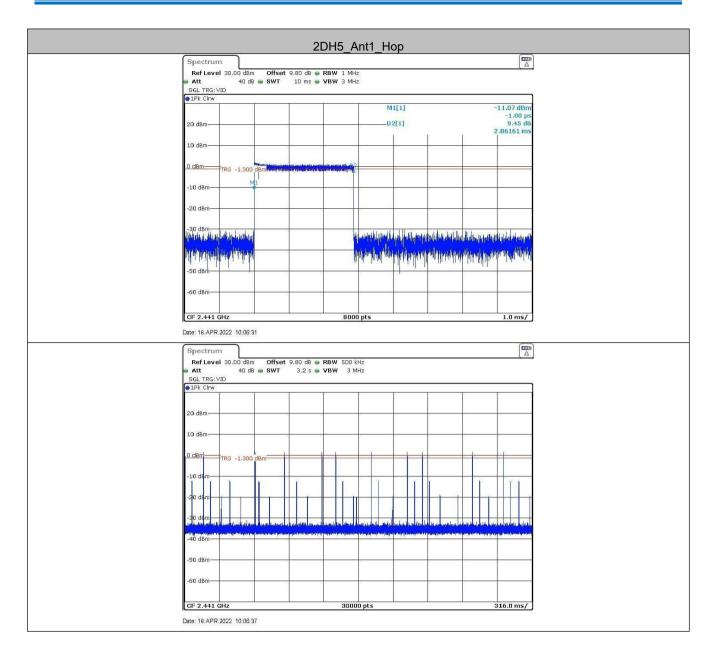




	2DH3_Ant1_Hop	(m)	
Spectrum Ref Level 30.00 dBm Offset 9.80	dB = RBW 1 MHz		
Att 40 dB SWT 10			
SGL TRG: VID 1Pk Clrw			
	M1[1]	-6.97 dBm -1.00 μs	
20 dBm	D2[1]	5.43 dB 1.62145 ms	
10 dBm-		1.02143 113	
10 0011			
0 dBm TRG -1.200 dBm TRG -1.200 tBm TRG	1002		
-10 dBm			
20 0011			
-20 dBm			
-30 dBm			
All and a second second all and all a she was a	eren and the start of the start with the start of the start	di kate di kate juli seke ku ka kate ka kasika kate ya kate	
A the protocol of the first start of the second		te i klava svoj pravlje je vrije i klava po ji svije vros.	
-50 dBm		and the later of t	
-60 dBm			
CF 2.441 GHz	8000 pts	1.0 ms/	
Date: 18.APR.2022 10:07:23	0000 pcs		
Spectrum Ref Level 30.00 dBm Offset 9.80	dB 🖷 RBW 500 kHz		
Att 40 dB SWT 3.			
SGL TRG: VID]	
20 dBm			
10 -0			
10 dBm			
0 dBm			
0 dBm			
0.dBm Treg -1,200 dBm			
0 dBm TRG -1 200 dBm			
0.dBm Treg -1,200 dBm			
0. dBm TRG -1.200 dBm			
0 dBm TRG -1 200 dBm			
0. dBm TRG -1.200 dBm			
0 dBm TRG -1.200 dBm	30000 pts		











		3DH1_Ant1	Hon		
Spectr					
Ref Le ● Att SGL TR		.80 dB 👄 RBW 1 MHz 10 ms 👄 VBW 3 MHz			
● 1Pk Clr	W	1	M1[1]	-6.66 dBm	
20 dBm-			D2[1]	-1.00 μs 5.88 dB 376.30 μs	
10 dBm-					
	TRG -1.000 dBm				
-10 dBm -20 dBm					
-30,d8m		ا ماد الد عليه و وارد عليه	alter a that some the loss	negal s na san	
A AN ANA N PROVINCIAL AND A	a <mark>n haa aan ka baha haba haba haba haba haba haba h</mark>	na presidente de la construcción d	del a de sector de la presentación de la presentación de la presentación de la presentación de la presentación En la presentación de la presentación		
-50 dBm	I COL COL COLOR	T the day wa	July and 1 . a	a la la su la la su	
-60 dBm		6			
CF 2.44	-1 GHz	8000 pts		1.0 ms/	
Date: 18.A	PR.2022 10:08:18				
Spectr Ref Le ● Att	vel 30.00 dBm Offset 9	.80 dB 👄 RBW 500 kHz 3.2 s 👄 VBW 3 MHz			
SGL TR	G: VID				
- 20 dBm-					
10 dBm-					
பிகிற	TRG -1.000 dBm				
-10 cBm					
-2D/d8m					
-3D d8m 					
-50 dBm					
-60 dBm					
CF 2.44		30000 pts		316.0 ms/	
Date: 18.A	PR.2022 10:08:24				



	3DH3 4	.nt1_Hop	
Spectrum Pef Level 3	.00 dBm Offset 9.80 dB		
Att SGL TRG: VID	40 dB SWT 10 ms VBW 3 MF		
●1Pk Cirw		M1[1]	-20.58 dBm -2.25 µs
20 dBm		D2[1]	19.55 dB 1.62020 ms
10 dBm	-0.800 dBm		
-10 dBm			
-20 dBm	M1		
-30 dBm	المعتدرة المربية المعتدر المتعتد	in Alt har di kaha dame di la pita tikat dila da a Di Ark dini tambéh sa da sa dina sa dina sa dina sa dina sa	hand be a find a find a first
(Link) (Star, Andrew Star)	hillingh hillingh	le tre grada e se de creatine de la facto de la fa	<mark>(¹11) y 1¹⁴ w 194 a P 10</mark> 4
-50 dBm			
-60 dBm			
CF 2.441 GH2 Date: 18.APR 202) pts	1.0 ms/
Spectrum Ref evel 3	0.00 dBm Offset 9.80 dB • RBW 500	H2	
Att SGL TRG: VID	40 dB SWT 3.2 s VBW 3 N	Hz	
20 dBm			
	-0.800 dBm		
-10 dBm			
-20jdBm	┼╷┼╷╢┼╎┼╷		
-BO dBm			and the second of the last
-40 dBm		A REAL OF A	and a second state
-50 dBm			
CF 2.441 GH	300	0 pts	316.0 ms/
Date: 18.APR 202		10 PC3	





	DH5_Ant1_Hop	
Spectrum Ref Level 30.00 dBm Offset 9.80 dB • I	RBW 1 MHz	
● Att 40 dB ● SWT 10 ms ● Y SGL TRG: VID		
●1Pk Cirw	1	
	M1[1]	-7.96 dBm -1.00 μs
20 dBm-	D2[1]	6.66 dB 2.86286 ms
10 dBm		2.00200 ms
10 081		
0.dBm TRG -1.100 dBm training and the second	Management Co.	
-10 dBm		
-10.000		
-20 dBm		
-30 dBm - 1 - 1		
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the first teach and the desired		and a finite first and a fill out the state of the
-50 dBm	the second data in the	I I II II III III III III
-60 dBm		
CF 2.441 GHz	8000 pts	1.0 ms/
Date: 18.APR 2022 10:07:51		
Spectrum		
Ref Level 30.00 dBm Offset 9.80 dB I		
SGL TRG: VID	FDW J Milz	
●1Pk Cirw		
20 dBm		
10 dBm		
.0 dBm TRG -1.100 dBm		
-10 dBm		
-20 dBm		
-30 dBm		
na vite processi processi and the processi strategies and the description of the processing of the procession of the procesion of the proc	an a	an a
-40 [°] d8m		
-50 dBm		
-60 dBm		
CF 2.441 GHz	30000 pts	316.0 ms/
	00000 pts	310.0 ms/ J
Date: 18.APR.2022 10:07:56		



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.: CQASZ20220200258E-01

Measurement Data

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
		Low	2402	-11.73	-48.26	≤-31.73	PASS
		High	2480	-11.86	-47.47	≤-31.86	PASS
DH5	Ant1	Low	Hop_2402	-12.33	-48.57	≤-32.33	PASS
		High	Hop_2480	-12.80	-47.32	≤-32.8	PASS
		Low	2402	-12.33	-48.86	≤-32.33	PASS
		High	2480	-12.10	-47.24	≤-32.1	PASS
2DH5	Ant1	Low	Hop 2402	-14.61	-47.62	≤-34.61	PASS
		High	Hop 2480	-13.18	-46.94	≤-33.18	PASS
		Low	2402	-11.85	-48.41	≤-31.85	PASS
		High	2480	-11.96	-47.06	≤-31.96	PASS
3DH5	Ant1	Low	Hop_2402	-13.53	-48.32	≤-33.53	PASS
		High	Hop_2480	-12.49	-46.22	≤-32.49	PASS



Test plot as follows:

Spec	trum									
	Level	20.00 dBr			RBW 100 kHz					
Att Count	t 300/3		B SWI	75.8 µs 🖷	VBW 300 kHz	Mode Au	to FFT			
⊜1Pk \	√iew		1	1						
						M1[1]			-11.73 dB 018560 GI
10 dBn	n					M2[1]			-51.85 dB 000000 GH
0 dBm-			-		8 8				2.1	
-10 dB	m			-						M1
-20 dB	m									
-30 dB	-m	1 -31.730	dBm							
-40 dB	m					M4				
USD dB	CP UND	water	and when the	and		Margaret	month	M3		M2
-60 dB						28 C 1 C 20 C 2			a 61 - 14 - 84	
-70 dB	m			-				-		
Start :	2.35 0	Hz		0	691 pt	ts			Stop	2.405 GH
Marker	r,		an data mili				10.05	10 MP 43 DO 10		
Type M1		Trc 1	2.4018	BS6 GHz	Y-value -11.73 dBm	Functio	n	Fund	tion Resul	t
M2 M3	2	1		2.4 GHz .39 GHz	-51.85 dBm -51.74 dBm					
			4	.39 0112	51.74 UDII	22 C				
M4		1	2.37933	333 GHz	-48.26 dBm		- 63			
M4	1		2.37933	333 GHz	-48.26 dBm					
M4	1	1 22 09:39:0	2.37933	333 GHz	-48.26 dBm					
M4	1		2.37933	- 11/04/07 2004			480			
Date: 3.N	4 MAR.20	22 09:39:0	2.37933	- 11/04/07 2004	-48.26 dBm		480			
Date: 3.M	i AR.20	22 09:39:0	2.37933	DH	5_Ant1_ŀ		480			
Spect Ref I	4 MAR.20 trum Level	22 09:39:0 22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •		High_2				
Spect Ref I Att Count	HAR.20	22 09:39:0 22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2				
Spect Ref I	HAR.20	22 09:39:0 22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2	to FFT			-11.86 dB
Spect Ref I Att Count	trum Level	22 09:39:0 22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GI
Spect Ref I • Att Count • 1Pk v 10 dBn	trum Level 1 300/3 View	22 09:39:0 22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB
Spect Ref I Att 0 1Pk v 10 dBm 0 dBm	trum Level 1 300/3 view	22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GF -49.46 dB
Spect Ref I • Att Count • 1Pk v 10 dBn	trum Level 1 300/3 view	22 09:39:0 22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GF -49.46 dB
Spect Ref I Att 0 1Pk v 10 dBm 0 dBm	+ MAR.20 	22 09:39:0 20.00 dBr 30 d	2.37933 0 n Offset	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GF -49.46 dB
Spect Ref I • Att • 1Pk v 10 dBm -10 dB -20 dB	trum Level t 300/3 view m m m	22 09:39:0 20.00 dBr 30 d	2.3793: 0 n Offset 8 SWT	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GF -49.46 dB
M4 Date: 3.N Spect Ref I • Att Count • 1Pk V 10 dBm -10 dBm -20 dB -20 dB	trum Level 1 300/3 m m m	22 09:39:0 20.00 dBr 30 d	2.3793: 0 n Offset 8 SWT	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GF -49.46 dB
Spect Ref I • Att • 1Pk v 10 dBm -10 dB -20 dB	trum Level 1 300/3 m m m	22 09 39:0 20.00 dBr 30 d 00	2.3793: 0 n Offset 8 SWT	DH5	5_Ant1_F	High_2 Mode Au	to FFT 1]		2.	-11.86 dB 479900 GF -49.46 dB
M4 Date: 3.N Spect Ref I • Att Count • 1Pk V 10 dBm -10 dBm -20 dB -20 dB	trum Level t 300/3 view m m m	22 09:39:0 20.00 dBr 30 d	2.3793: 0 n Offset 8 SWT	DH: 9.80 dB •	5_Ant1_F	High_2 Mode Au M1[M2[to FFT 1]		2.	-11.86 dB 479900 GI 49.46 dB 483500 GI
M4 Date: 3.N Ref I Att Count 0 dBm -10 dB -20 dB -20 dB -20 dB -40 dB	trum trum Level t 300/3 m m m c c c c	22 09 39:0 20.00 dBr 30 d 00	2.3793: 0 n Offset 8 SWT	DH:	5_Ant1_F	High_2 Mode Au M1[M2[to FFT 1] 1]	4 a provent	2.	-11.86 dB 479900 GI 49.46 dB 483500 GI
M4 Date: 3.N Date: 3.N Att Count 0 dBm -10 dBm -10 dBm -20 dB -20 dB -20 dB -30 dB -40 dB -40 dB	4 MAR 20 Itrum Level 1 300/3 View m m m C C m m m m m m	22 09 39:0 20.00 dBr 30 d 00	2.3793: 0 n Offset 8 SWT	DH: 9,80 d8 • 94.8 µs •	5_Ant1_F	High_2 Mode Au M1[M2[to FFT 1] 1]	for the second sec	2.	-11.86 dB 479900 GI 49.46 dB 483500 GI
M4 Date: 3.N Date: 3.N Count 10 dBn 10 dBn -10 dBn -20 dBi -20 dBi -30 dBi -30 dBi -30 dBi	4 MAR 20 Itrum Level 1 300/3 View m m m C C m m m m m m	22 09 39:0 20.00 dBr 30 d 00	2.3793: 0 n Offset 8 SWT	DH: 9,80 d8 • 94.8 µs •	5_Ant1_F	High_2 Mode Au M1[M2[to FFT 1] 1]		2.	-11.86 dB 479900 GI 49.46 dB 483500 GI
M4 Date: 3.N Date: 3.N ■ Att Count ■ 1Pk V 10 dBm −10 dBm −10 dBm −20 dB −20 dB −30 dB −30 dB −40 dB −50 dB −50 dB	+ MAR.20 Level t.300/3 m m c c c c c c c c c c c c c c c c c	22 09:39:0 22 09:39:0 20:00 dBir 30 d 30 d 1 	2.3793: 0 n Offset 8 SWT	DH: 9,80 d8 • 94.8 µs •	5_Ant1_F	High_2 Mode Au MII MII	to FFT 1] 1]	for personal and	2. 2.	-11.86 dB 479900 GI 49.46 dB 483500 GI
M44 Date: 3.N Date: 3.N Att Count 10 dBm -10 dBm -10 dBm -20 dBi -20 d	+ 	22 09.39.0 20.00 dBr 30 d	2.3793: 0 b b swr b b dBm	DH:	5_Ant1_F	High_2 Mode Au M1[M2[to FFT 1] 1]		2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-11.86 dB 479900 Gl -49.46 dB 483500 Gl
M44 Date: 3.N Date: 3.N Att Count 0 dBm -10 dBm -10 dBm -10 dBm -20 dB -20 dB -	4 4 4 4 4 4 4 4 4 4 4 4 4 4	22 09:39:0 20.00 d8:30 30 d 30 d 41 	2.3793: 0 n Offset b SWT dBm dBm vlastpatings x-valu 2.4:	DH: 9.80 dB • 94.8 µs • 94.8 µs • 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5_Ant1_F RBW 100 kHz VBW 300 kHz 691 pt Y-volue -11.86 dBm	High_2 Mode Au M1[M2]	to FFT 1] 1]		2. 2.	-11.86 dB 479900 Gl -49.46 dB 483500 Gl
M4 Date: 3.N Ref f Att Count ● 1Pk V 10 dBm -10 dBm -20 dB -20 dB -30 dB -40 dB -30 dB -40 dB -50 dB -70 dB Stort : Marker Type	+ + + + + + + + + + + + + +	22 09.38.0 22 09.38.0 30 d 30 d 30 d 11 -31.860 	2.3793: 0 n Offset 8 SWT	DH5 9.80 dB • 94.8 µs • 94.8 µs • 94.8 µs •	5_Ant1_F	High_2 Mode Au MI[M2]	to FFT 1] 1]		2. 2. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	-11.86 dB 479900 Gl -49.46 dB 483500 Gl



DH5 Ant	1_Low_Hop_2402		
Spectrum			
Ref Level 20.00 dBm Offset 9.84 dB - RBW			
Att 30 dB SWT 75.8 µs VBW Count 300/300	300 kHz Mode Auto FFT		
●1Pk View	54+F+7	10.00.40	
10 dBm	M1[1]	-12.33 dBm 2.4020150 GHz	
	M2[1]	-51.63 dBm 2.4000000 GHz	
0 dBm			
-10 dBm		M1	
-20 dBm		404	
		LAGA	
-30 dBm D1 -32.330 dBm			
-40 dBm	14 M2		
vola Barrow with the set of the second and the second seco	M3	m manufacture 1	
-60 dBm			
-70 dBm			
Start 2.35 GHz	691 pts	Stop 2.405 GHz	
Marker			
	value Function Func 2.33 dBm	tion Result	
M2 1 2.4 GHz -5	1.63 dBm 1.03 dBm		
M4 1 2.3742319 GHz -4	8.57 dBm		
Date: 3.MAR.2022 10:07:57			
DH5 Ant1	High Hoh 2480		
Spectrum RefLevel 20.00 dBm Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW	High_Hop_2480		
Spectrum Ref Level 20.00 dBm Offset 9.80 dB . RBW	100 kHz		
Spectrum Ref Level 20.00 dbm Offset 9.80 db RBW Att 30 db SWT 94.8 µs VBW Count 300/300 SWT 94.8 µs VBW	100 kHz	-12.80 dBm	
Spectrum Ref Level 20.00 dbm Offset 9.80 db RBW Att 30 db SWT 94.8 µs VBW Count 300/300 SWT 94.8 µs VBW	100 kHz 300 kHz Mode Auto FFT	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB ● RBW Att 30 dB SWT 94.8 µs ● VBW Count 300/300 ● 1Pk View	100 kHz 300 kHz Mode Auto FFT M1[1]	-12.80 dBm 2.476890 GHz	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB • RBW Att 30 dB SWT 94.8 µs • VBW Count 300/300 • IPk View • IPk View • IPk View 10 dBm • 0 dBm • IPk View • IPk View	100 kHz 300 kHz Mode Auto FFT M1[1]	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91Pk View 10 dBm 10 dBm 10 dBm	100 kHz 300 kHz Mode Auto FFT M1[1]	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB • RBW Att 30 dB SWT 94.8 µs • VBW Count 300/300 • IPk View • IPk View • IPk View 10 dBm • 0 dBm • IPk View • IPk View	100 kHz 300 kHz Mode Auto FFT M1[1]	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB • RBW Att 30 dB SWT 94.8 µs • VBW Count 300/300 • IPk View • IPk View • IPk View 10 dBm • 0 dBm • IPk View • IPk View	100 kHz 300 kHz Mode Auto FFT M1[1]	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91/k View 10 dBm 10 dBm 10 dBm 10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm	100 kHz 300 kHz M1[1] M2[1]	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 0 BWT 94.8 µs VBW 10 dBm 0 0 0 0 0 10 dBm 0 0 0 0 0 0 30 dBm 0 0 0 0 0 0 0 40 dBm 0 -32.800 dBm 0 -40 dBm 0 -40 dBm -40	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1]	-12.80 dBm 2.476890 GHz -51.78 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91Pk View 10 dBm 1	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1]	-12.80 dBm 2.476690 GHz -51.78 dBm	
Spectrum Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91.9 µs VBW 0 10 dBm 0 10 dBm 0 0 dBm 0 10 dBm 0 10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm 0 -10 dBm	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1]	-12.80 dBm 2.476890 GHz -51.78 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91Pk View 10 dBm 1	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1]	-12.80 dBm 2.476890 GHz -51.78 dBm 2.483500 GHz	
Spectrum Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91Pk View 10 dBm 10 dBm <td>100 kHz 300 kHz Mode Auto FFT M1[1] M2[1] M2[1]</td> <td>-12.80 dBm 2.476990 GHz -51.78 dBm 2.483500 GHz</td> <td></td>	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1] M2[1]	-12.80 dBm 2.476990 GHz -51.78 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW Att 30 dB SWT 94.8 µs VBW Count 300/300 91Pk View 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm -10 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -50 dBm 10 -32.800 dBm 10 dBm 10 dBm -60 dBm 10 dBm 10 dBm 10 dBm 10 dBm	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1]	-12.80 dBm 2.476890 GHz -51.78 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW Att 30 dB WT 94.8 µs VBW Count 300/300 ● 1Pk View ● ● ● 10 dBm 0 ● ● ● ● ● 0 dBm 0 ●	100 kHz 300 kHz Mode Auto FFT M1[1] M2[1] M2[1] M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	-12.80 dBm 2.476990 GHz -51.78 dBm 2.483500 GHz	



2DH5 Ant1 Lo	NW 2402	
Spectrum	<u></u>	
Ref Level 20.00 dBm Offset 9.84 dB RBW 100 kHz		
👄 Att 30 dB SWT 75.8 μs 👄 VBW 300 kHz M	ode Auto FFT	
Count 300/300]	
	M1[1] -12.33 dBm	
10 dBm	2.4021740 GHz M2[1] -49.65 dBm	
0 dBm	2.4000000 GHz	
	M1	
-10 dBm	X	
-20 dBm		
-30 dBm		
D1 -52.530 (IBII)		
-40 dBm	M3 M2	
159. all and ward and further and and the and the second and the s		
-60 dBm		
-70 dBm		
Start 2.35 GHz 691 pts	Stop 2.405 GHz	
Marker		
Type Ref Trc X-value Y-value M1 1 2.402174 GHz -12.33 dBm	Function Function Result	
M2 1 2.4 GHz -49.65 dBm		
M3 1 2.39 GHz -49.42 dBm M4 1 2.3556594 GHz -48.86 dBm		
Date: 3,MAR.2022 09:48:56		
	1 0 100	
2DH5_Ant1_Hi	gh_2480	
Spectrum RefLevel 20.00 dBm Offset 9.60 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz	μ Δ	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 SWT 94.8 µs VBW 300 kHz M	μ Δ	
Spectrum RefLevel 20.00 dBm Offset 9.60 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz	ode Auto FFT M1[1] -12.10 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 SWT 94.8 µs VBW 300 kHz M	(Ⅲ) ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 Image: Count 300/300	→ → → → → → → → → → → → → → → → → → →	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 0 1Bk View Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 0 dBm Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 Image: Count 300/300	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 0 1Bk View Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 0 dBm Image: Count 300/300 Image: Count 300/300 Image: Count 300/300 Image: Count 300/300	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Count 300/300 91Pk View 10 dBm 0 10 dBm -10 dBm M1 -20 dBm -20 dBm -10 dBm	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 Interview	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 91Pk View 10 dBm 10 dBm <t< td=""><td>mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm</td><td></td></t<>	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 10 dBm <	mm ode Auto FFT M1[1] -12.10 dBm 2.480130 GHz M2[1] -51.47 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 11Pk View 10 dBm	mti[1] -12.10 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 10 dBm <	mti[1] -12.10 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 11Pk View 10 dBm	mti[1] -12.10 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 30/300 Image: Second	mi[1] -12.10 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 10 dBm <	mti[1] -12.10 dBm	
Spectrum Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 IV 94.8 µs VBW 300 kHz M O dBm IV 94.8 µs VBW 300 kHz M O dBm IV IV IV M O dBm IV IV IV IV IV -10 dBm IV	mi[1] -12.10 dBm	
Spectrum Ref Level 20.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz M Count 300/300 10 dBm <	mm ▲ ode Auto FFT ▲ M1[1] -12.10 dBm 2.480130 GHz ▲ M2[1] -51.47 dBm 2.483500 GHz ▲ Mu ▲ M2[1] -51.47 dBm 2.483500 GHz ▲ ▲ ▲ <td< td=""><td></td></td<>	



201	-15 Anti Low Hop $2/102$			
Spectrum	H5_Ant1_Low_Hop_2402			
	dB 🖷 RBW 100 kHz			
Att 30 dB SWT 75.8	us VBW 300 kHz Mode Auto FFT			
Count 300/300 1Pk View				
	M1[1]	-14.61 dBm		
10 dBm	M2[1]	2.4028910 GHz -51.15 dBm		
0 d0m	mz[1]	2.4000000 GHz		
0 dBm				
-10 dBm		Mi		
-20 dBm		Mrun		
-30 dBm				
D1 -34.610 dBm				
-40 dBm				
vala 18 and mount mount of the state	Moon and a second	13 My tor run when the the		
-60 dBm				
-70 dBm				
Start 2.35 GHz	691 pts	Stop 2.405 GHz		
Marker				
Type Ref Trc X-value M1 1 2.402891 GF	Y-value Function Hz -14.61 dBm	Function Result		
M2 1 2.4 GH	Hz -51.15 dBm			
M3 1 2.39 GH				
M4 1 2.3527101 GF	Hz -47.62 dBm			
	Hz -47.62 dBm			
 M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55				
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55	Hz -47.62 dBm			
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55				
M4 1 2.3527101 GF Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 0	15_Ant1_High_Hop_2480			
M4 1 2.3527101 GF Date: 3.MAR.2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 d Att 30 dB SWT 94.8	15_Ant1_High_Hop_2480			
M4 1 2.3527101 GF Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 0	H5_Ant1_High_Hop_2480 d8 = RBW 100 kHz µs = VBW 300 kHz Mode Auto FFT			
M4 1 2.3527101 GF Date: 3 MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.8 g Count 300/300 PIK View 1000000000000000000000000000000000000	15_Ant1_High_Hop_2480	-13.18 dBm		
M4 1 2,3527101 Gł Date: 3.MAR.2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 d Att 30 dB SWT 94.8 l Count 300/300 SWT 94.8 l	H5_Ant1_High_Hop_2480 d8 = RBW 100 kHz µs = VBW 300 kHz Mode Auto FFT	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2.3527101 GF Date: 3 MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.8 g Count 300/300 PIK View 1000000000000000000000000000000000000	H5_Ant1_High_Hop_2480 dB = RBW 100 kH2 µ\$ • VBW 300 kH2 Mode Auto FFT M1[1]	-13.18 dBm 2.477000 GHz		
M4 1 2,3527101 Gł Date: 3.MAR 2022 11:27:55 2DH CDH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.8 I Count 300/300 ID dBm 10 dBm 0 dBm 0 dBm	H5_Ant1_High_Hop_2480 dB = RBW 100 kH2 µ\$ • VBW 300 kH2 Mode Auto FFT M1[1]	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.8 g Count 300/300 IPK View 10 dBm 0 dBm 10 dBm 10 dBm	H5_Ant1_High_Hop_2480 dB = RBW 100 kH2 µ\$ • VBW 300 kH2 Mode Auto FFT M1[1]	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2,3527101 Gł Date: 3.MAR 2022 11:27:55 2DH CDH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.8 I Count 300/300 ID dBm 10 dBm 0 dBm 0 dBm	H5_Ant1_High_Hop_2480 dB = RBW 100 kH2 µ\$ • VBW 300 kH2 Mode Auto FFT M1[1]	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2.3527101 Gł Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 d Att 30 dB SWT 94.8 g Outs: 3.004 SWT 94.8 g 0.01 200/300 10 dBm 10 dBm 0 20 dBm 0	H5_Ant1_High_Hop_2480 dB = RBW 100 kH2 µ\$ • VBW 300 kH2 Mode Auto FFT M1[1]	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 d Att 30 dB SWT 94.8 g Count 300/300 IPK View 0 DdBm 0 dBm 10 dBm 0 J, Mail 30 dBm 0 J, Mail 30 dBm 01 -33.180 dBm	H5_Ant1_High_Hop_2480 dB = RBW 100 kH2 µ\$ • VBW 300 kH2 Mode Auto FFT M1[1]	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9:80 G Att 30 dB SWT 94.8 g Count 300/300 11/2 HA 0 dBm 10 dBm 0 dBm 0 dBm -30 dBm 01 -33.180 dBm	H5_Ant1_High_Hop_2480	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz		
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9:80 G Att 30 dB SWT 94.8 g Count 300/300 11/2 HA 0 dBm 10 dBm 0 dBm 0 dBm -30 dBm 01 -33.180 dBm	H5_Ant1_High_Hop_2480	-13.18 dBm 2.477000 GHz -50.72 dBm		
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9:80 G Att 30 dB SWT 94.8 g Count 300/300 11/2 HA 0 dBm 10 dBm 0 dBm 0 dBm -30 dBm 01 -33.180 dBm	H5_Ant1_High_Hop_2480	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz		
M4 1 2.3527101 GH Date: 3.MAR.2022 11:27:55 2DH Date: 3.MAR.2022 11:27:55 Spectrum Ref Level 20.00 dBm Offset 9.80 d Out: 30/300 Out: 30/300 <td 30="" 300<="" <="" colspa="2" out:="" td=""><td>H5_Ant1_High_Hop_2480</td><td>-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz</td><td></td></td>	<td>H5_Ant1_High_Hop_2480</td> <td>-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz</td> <td></td>	H5_Ant1_High_Hop_2480	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz	
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.8 I Count 300/300 11Fk View 0 10 dBm 0 0 -10 dBm 0 30.00 dBm -30 dBm 01 -33.180 dBm -50 dBm M2 M2	H5_Ant1_High_Hop_2480	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz		
M4 1 2.3527101 GH Date: 3.MAR.2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 (30 dB swr 94.8) Att 30 dB swr 94.8) Cont 300/300 1Pk View 10 dBm 10 dBm -30 dBm 10 dBm -30 dBm 10 dBm -50 dBm 133.180 dBm -50 dBm 133.180 dBm -70 dBm 10 dBm -70 dBm 10 dBm	H5_Ant1_High_Hop_2480	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz		
M4 1 2.3527101 GH Date: 3.MAR 2022 11:27:55 2DH Spectrum Ref Level 20.00 dBm Offset 9.80 G Att 30 dB SWT 94.81 Court 300/300 10 dBm 0 10 dBm 0 SWT 94.81 20 dBm 0 30.133.180 dBm -30 dBm 01 -33.180 dBm -50 dBm M2 M2 -70 dBm M2 M2 -70 dBm 10 Start 2.47 GHz	H5_Ant1_High_Hop_2480 d8 = RBW 100 kH2 µs • VBW 300 kH2 Mode Auto FFT M1[1] M2[1] M3 M3 M4 M3 M4 M4 M4 M4 M4 M4 M4 M4 M4 M4	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz 2.493500 GHz		
M4 1 2.3527101 GH Date: 3.MAR.2022 11:27:55 2DH DEDE Spectrum Ref Level 20.00 dBm Offset 9.80 o	H5_Ant1_High_Hop_2480 dB<	-13.18 dBm 2.477000 GHz -50.72 dBm 2.483500 GHz		
M4 1 2.3527101 Gł Date: 3.MAR.2022 11:27:55 2DH Date: 3.MAR.2022 11:27:55 Spectrum Ref Level 20.00 dBm Odbm Odbm <	H5_Ant1_High_Hop_2480 dB = RBW 100 kHz µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1] M2[1] M3 M4 M3 M4 M3 M4 M3 M4	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz 2.493500 GHz		
M4 1 2.3527101 GH Date: 3.MAR.2022 11:27:55 2DH DEDE Spectrum Ref Level 20.00 dBm Offset 9.80 o	H5_Ant1_High_Hop_2480 dB = RBW 100 kHz µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1] M3 M4 M3 M4 M3 M4 M3 M4 M3 M4 M3 M4	-13.18 dBm 2.477000 GHz -50.72 dBm 2.493500 GHz 2.493500 GHz		



	3DH5 Ant1 Low 2402		
Spectrum			
	9.84 dB 👄 RBW 100 kHz		
Att 30 dB SWT	75.8 µs 🖶 VBW 300 kHz 🛛 Mode Auto FFT		
Count 300/300		1	
	M1[1]	-11.85 dBm	
10 dBm	M2[1]	2.4020150 GHz -50.18 dBm	
0 dBm		2,4000000 GHz	
		M1	
-10 dBm		X	
-20 dBm			
-30 dBm 01 -31 850 dBm			
D1 01.000 abii			
-40 dBm		M24 M2,	
1550. 4800 may rathantin phone war	and the second for the second for the second s	when and the way was	
-60 dBm			
-70 dBm			
Start 2.35 GHz	691 pts	Stop 2.405 GHz	
Marker	oar his	atup 2.400 GFI2	
Type Ref Trc X-value	e Y-value Function	Function Result	
	015 GHz -11.85 dBm 2.4 GHz -50.18 dBm		
M3 1 2.	.39 GHz -50.57 dBm		
M4 1 2.39033	333 GHz -48.41 dBm		
Date: 3.MAR 2022 10.01:06	3DH5_Ant1_High_2480		
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset	9.80 dB 🖷 RBW 100 kHz	(m) A	
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset 1 30 dB SWT Count 300/300			
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT	9.80 dB ● RBW 100 kHz 94.8 µs ● VBW 300 kHz Mode Auto FFT		
Spectrum Ref Level 20.00 dBm Offset Att 30 dB Spic Live String	9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz Mode Auto FFT M1[1]	-11.96 dBm 2.480010 GHz	
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT Count 300/300 IPI: View 10 dBm 10 dBm 10	9.80 dB ● RBW 100 kHz 94.8 µs ● VBW 300 kHz Mode Auto FFT	-11.96 dBm 2.480010 GHz -50.89 dBm	
Spectrum Ref Level 20.00 dBm Offset Att 30 dB Spic Live String	9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz Mode Auto FFT M1[1]	-11.96 dBm 2.480010 GHz	
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT Count 300/300 IPI: View 10 dBm 10 dBm 10	9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz Mode Auto FFT M1[1]	-11.96 dBm 2.480010 GHz -50.89 dBm	
Date: 3.MAR.2022 10.01:06	9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz Mode Auto FFT M1[1]	-11.96 dBm 2.480010 GHz -50.89 dBm	
Date: 3.MAR.2022 10.01:06	9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz Mode Auto FFT M1[1]	-11.96 dBm 2.480010 GHz -50.89 dBm	
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT Count 300/300 IPIk View 10 dBm 0 dBm -10 dBm -20 dBm -2	9.80 dB • RBW 100 kHz 94.8 µs • VBW 300 kHz Mode Auto FFT M1[1]	-11.96 dBm 2.480010 GHz -50.89 dBm	
Date: 3.MAR 2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset 4 Att 30 dB SWT Count 300/300 ID dBm 0 dBm 10 dBm -10 dBm -20 dBm -30 dBm 01 -31.960 dBm -30 dBm -30 dBm -31.960 dBm -30 dBm -31.960 dBm -31.960 dBm -31.960 dBm -30 dBm -30 dBm -31.960 dBm -31.960 dBm -31.960 dBm -31.960 dBm -31.960 dBm -30 dBm -31.960 dBm -30 dBm -31.960 dBm -31.960 dBm -31.960 dBm -30 dBm -31.960 dBm -31.9	9.80 dB RBW 100 kHz 94.8 µs VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 GHz -50.89 dBm	
Date: 3.MAR 2022 10.01:06	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Date: 3.MAR.2022 10.01:06	9.80 dB RBW 100 kHz 94.8 µs VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 GHz -50.89 dBm	
Date: 3.MAR 2022 10.01:06	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Date: 3.MAR 2022 10.01:06	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Date: 3.MAR 2022 10.01:06	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Date: 3.MAR 2022 10.01:06	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2[1]	-11.96 dBm 2.480010 CHz -50.99 dBm 2.483500 GHz	
Date: 3.MAR.2022. 10.01:06 Spectrum Ref.evel 20.00 dBm Offset Att. 30 dB SWT Count 300/300 ● IPk View 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm -40 dBm -50 dBm -70 dBm -70 dBm -70 dBm -70 dBm	9.80 dB RBW 100 kH2 94.8 µs VBW 300 kH2 M0de Auto FFT M1[1] M2[1] M2[1] M3 Autor M3 Autor M4 Autor M3 Autor M4 Autor M4 Autor M3 Autor M4 Autor M	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Date: 3.MAR.2022 10.01:06 Spectrum Ref Level 20.00 dBm Offset 300/300 Att 30 dB SWT Count 300/300 IPk View 10 dBm 01 10 dBm 01 31.960 dBm 01 -30 dBm 01 -31.960 dBm 01 -50 dBm 01 -31.960 dBm 01 -70 dBm 70 Marker Type [Ref [Trc] X-value	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2	-11.96 dBm 2.480010 CHz -50.99 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset Att 30 dB SWT Count 300/300 ID dBm ID dBm 0 dBm ID dBm ID dBm -10 dBm ID dBm ID dBm -20 dBm ID dBm ID dBm -30 dBm D1 -31.960 dBm ID dBm -40 dBm M1 ID dBm -50 dBm ID dBm ID dBm -70 dBm ID dBm ID dBm	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset 30 dBm 0 dBm 30 dB SWT 0 dBm 0 0 10 dBm 0 0 -10 dBm 0 0 -20 dBm 0 -10 dBm -30 dBm 01 -31.960 dBm -60 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -131.960 dBm -60 dBm -50 dBm -10 dBm -131.960 dBm -50 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -50 dBm -10 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -50 dBm -131.960 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm	9.80 dB • RBW 100 kH2 94.8 µs • VBW 300 kH2 Mode Auto FFT M1[1] M2[1] M2[1] M3 under the main state of the st	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	
Spectrum Ref Level 20.00 dBm Offset 30 dBm 0 dBm 30 dB SWT 0 dBm 0 0 10 dBm 0 0 -10 dBm 0 0 -20 dBm 0 -10 dBm -30 dBm 01 -31.960 dBm -60 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -131.960 dBm -60 dBm -50 dBm -10 dBm -131.960 dBm -50 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -50 dBm -10 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -50 dBm -131.960 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -10 dBm -131.960 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm -10 dBm	9.80 dB = RBW 100 kHz 94.8 µs = VBW 300 kHz Mode Auto FFT M1[1] M2	-11.96 dBm 2.480010 GHz -50.89 dBm 2.483500 GHz	



	3DH5_Ant1_L	ow Hop 2402	
Spectrum			
100 m	et 9.84 dB 🖷 RBW 100 kH	z	
Att 30 dB SW1	Г 75.8 µs 🖷 VBW 300 kH		
Count 300/300 P1Pk View			
		M1[1]	-13.53 dBm 2.4028910 GHz
10 dBm		M2[1]	-50.84 dBm
0 dBm			2.4000000 GHz
-10 dBm			MI
			when
-20 dBm			Nr. ch
-30 dBm		8	
-40 dBm			
M4	n n	M3	M2
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-60 dBm		2 0 0	
-70 dBm			
Start 2.35 GHz	691	pts	Stop 2.405 GHz
Marker Type Ref Trc X-v	alue Y-value	Function	Function Result
M1 1 2.4	402891 GHz -13.53 dB 2.4 GHz -50.84 dB	m	
M3 1	2.39 GHz -51.55 dB	m	
	595652 GHz -48.32 dB	m	
M4 1 2.35	10.02 UI		
Date: 3.MAR.2022 11:33:39	555552 GH2 45.52 GB		
	555652 GH2		
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Date: 3.MAR:2022 11:33:39	3DH5_Ant1_H		Ē
Date: 3 MAR.2022 11:33:39 Spectrum	3DH5_Ant1_H	igh_Hop_2480	
Date: 3 MAR 2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 db SWI		igh_Hop_2480	
Date: 3 MAR:2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs	3DH5_Ant1_H	igh_Hop_2480	
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 db SWI Count 101/300	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 db SWI Count 101/300	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SWI Count 101/300 IPR View	3DH5_Ant1_H	igh_Hop_2480 ² Mode Auto FFT	-12.49 dBm
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SW1 Count 101/300 1Pk View 10 dBm 0 dBm	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 dB SWI Count 101/300 IPR View 10 dbm 0 dbm 10 dbm 1	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SW1 Count 101/300 1Pk View 10 dBm 0 dBm	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR 2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 db SWI Count 101/300 IPK View 10 dbm 0 dbm 10 dbm 10 dbm 2 o dbm 10 dbm 2 o dbm 10 dbm	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SWI Count 101/300 IPR View 10 dBm 0 dBm 10 dBm	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR 2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 db SWI Count 101/300 1Pk View 10 dBm 10 dBm 410 dBm 10 dBm -30 dBm 01 -32.490 dBm -40 dBm 10 -32.490 dBm	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SWI Count 101/300 IPR View 10 dBm 0 dBm 10 dBm	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm
Date: 3 MAR 2022 11:33:39	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR 2022 11:33:39	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR 2022 11:33:39	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SWI Count 101/300 ID dBm I0	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dbm Offs Att 30 db SWI Count 101/300 10 dbm 10	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470660 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SWI Count 101/300 9 IPk View 0 10 dBm 0 0 10 dBm 0 0 -30 dBm 01 -32.490 dBm -40 dBm M2 -50 dBm -50 dBm M2 -70 dBm -70 dBm -70 dBm X-Y	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470060 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 20.00 dBm Offs Att 30 dB SWI Count 101/300 1PK View 10 10 dBm 0 dBm 10 dBm 0 30 dB 10 dBm 10 0 10 dBm 0 dBm -30 dBm D1 -32.490 dBm -40 dBm M2 -50 dBm -50 dBm M2 -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm 1 2 Markor Type Ref Trc X-Y Y	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470660 GHz -50.57 dBm 2.483500 GHz
Date: 3 MAR.2022 11:33:39 Spectrum Ref Level 0.00 dbm Offs Att 30 db SW1 Count 101/300 Offs I D dbm 0 dbm 0 dbm 0 dbm 0 dbm 0 dbm 10 dbm 0 dbm <td>3DH5_Ant1_H</td> <td>igh_Hop_2480</td> <td>-12.49 dBm 2.470660 GHz -50.57 dBm 2.483500 GHz</td>	3DH5_Ant1_H	igh_Hop_2480	-12.49 dBm 2.470660 GHz -50.57 dBm 2.483500 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



