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Report Template Version: V03 Report Template Revision Date: Mar.1st, 2017

Test Report

Report No. : Applicant: Address of Applicant:	CQASZ20210901593E-01 Shenzhen DO Intelligent Technology Co., Ltd 11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China				
Equipment Under Test (E Product:	UT): Smart Watch				
All Model No.:	GT01 Pro				
Test Model No.: Brand Name:	GT01 Pro IDO				
FCC ID:	2AHFT439				
Standards:	47 CFR Part 15, Subpart C				
Date of Receipt:	2021-09-14				
Date of Test:	2021-09-14 to 2021-10-15				
Date of Issue: Test Result :	2021-11-01 PASS *				

Tested By:	lewis zhou	
	(Lewis Zhou)	CETINO :
Reviewed By:	(Rock Huang)	
Approved By:	Junsi (Jack ai)	APPROVED T

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

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
CQASZ20210901593E-01	Rev.01	Initial report	2021-11-01



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:	Shenzhen DO Intelligent Technology Co., Ltd				
Address of Applicant:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China				
Manufacturer:	Shenzhen DO Intelligent Technology Co., Ltd				
Address of Manufacturer:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China				
Factory:	Shenzhen DO Intelligent Technology Co., Ltd				
Address of Factory:	11th Floor, 3# Building, Guole Tech Park, Lirong Road, Dalang, Longhua District, Shenzhen, China				

4.2 General Description of EUT

Product Name:	Smart Watch		
All Model No.:	GT01 Pro		
Test Model No.:	GT01 Pro		
Trade Mark:	IDO		
Hardware Version:	V1.4		
Software Version:	V1.01.02		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	BT5.1		
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:	Signaling fixed frequency		
Antenna Type:	FPC antenna		
Antenna Gain:	-2.7 dBi		
Power Supply:	Li-ion battery: DC 3.85V 300mAh, Charge by DC 5V for adapter		

Note:

The difference between 1# prototype and 2# prototype is only the display supplier



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 Set	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 selected)			
Use test software to set the lov	west frequency, the middle frequency and	the highest frequency keep			
transmitting of the EUT.					
Mode	Channel	Channel Frequency(MHz)			
	СН0	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:





4.4 Test Environment

Operating Environment:		
Temperature:	26 °C	
Humidity:	57 % RH	
Atmospheric Pressure:	100.9mbar	
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
Comprehensive tester	R&S	CMW500	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	Notes
1	Radiated Emission (Below 1GHz)	±5.12dB	(1)
2	Radiated Emission (Above 1GHz)	±4.60dB	(1)
3	Conducted Disturbance (0.15~30MHz)	±3.34dB	(1)
4	Radio Frequency	3×10 ⁻⁸	(1)
5	Duty cycle	0.6 %.	(1)
6	Occupied Bandwidth	1.1%	(1)
7	RF conducted power	0.86dB	(1)
8	RF power density	0.74	(1)
9	Conducted Spurious emissions	0.86dB	(1)
10	Temperature test	0.8°C	(1)
11	Humidity test	2.0%	(1)
12	Supply voltages	0.5 %.	(1)
13	time	0.6 %.	(1)
14	Frequency Error	5.5 Hz	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(1)This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



4.7 Test Location

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

• 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.

4.10Other Information Requested by the Customer

None.



4.11 Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration 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
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2021/9/10	2022/9/9
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	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	C007	2021/9/10	2022/9/9
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	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



5 Test results and Measurement Data

5.1 Antenna Requirement

Standard 47 CFR Part 15C Section 15.203 /247(c) 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:** GT01-PRO 1018291 The antenna is FPC antenna. The best case gain of the antenna is -2.7dBi.





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:	Frequency range (MHz)	Limit (c	lBuV)	
		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 distur- room. The EUT was connected to Impedance Stabilization N- impedance. The power call connected to a second LIS reference plane in the sam measured. A multiple sock power cables to a single LI exceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal gr The test was performed wi of the EUT shall be 0.4 m for vertical ground reference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated exe In order to find the maximum equipment and all of the in ANSI C63.10: 2013 on con 	b AC power source thro etwork) which provides oles of all other units of SN 2, which was bonde in way as the LISN 1 for et outlet strip was used ISN provided the rating ced upon a non-metalling of floor-standing ar round reference plane, th a vertical ground ref from the vertical ground ref from the vertical ground olane was bonded to the 1 was placed 0.8 m fro to a ground reference and reference plane. The of the LISN 1 and the quipment was at least 0 in emission, the relative terface cables must be	bugh a LISN 1 (Line a $50\Omega/50\mu$ H + 5Ω line f the EUT were d to the ground or the unit being d to connect multiple g of the LISN was not c table 0.8m above the rangement, the EUT ference plane. The real d reference plane. The real d reference plane. The real d reference plane. The second plane for LISNs his distance was EUT. All other units of 0.8 m from the LISN 2 we positions of	near ne was ar ne he of 2.
Test Setup:	Shielding Room	AE USN2 + AC Ma Ground Reference Plane	Test Receiver	



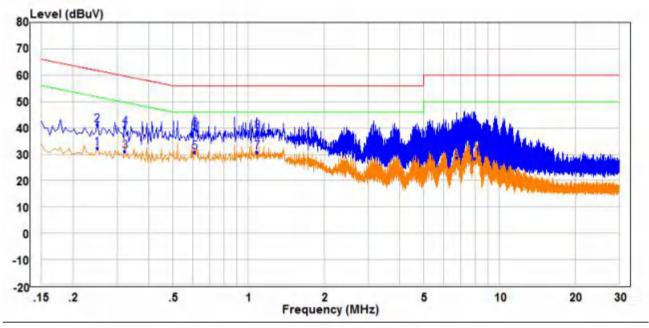
Test Mode:	Charging mode
Test Voltage:	AC 120V/60Hz
Test Results:	Pass



1#

Measurement Data

Live line:



		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	-	MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.250	22.70	9.49	32.19	51.76	-19.57	Average	Line
23		0.250	31.68	9.49	41.17	61.76	-20.59	QP	Line
		0.322	21.45	9.49	30.94	49.66	-18.72	Average	Line
4		0.322	30.70	9.49	40.19	59.66	-19.47	QP	Line
5	PP	0.610	21.03	9.72	30.75	46.00	-15.25	Average	Line
6	QP	0.610	29.85	9.72	39.57	56.00	-16.43	QP	Line
7		1.082	21.21	9.52	30.73	46.00	-15.27	Average	Line
8		1.082	29.07	9.52	38.59	56.00	-17.41	QP	Line
9		6.766	18.90	9.69	28.59	50.00	-21.41	Average	Line
10		6.766	27.79	9.69	37,48	60.00	-22.52	QP	Line
11		7.921	18.71	9.73	28.44	50.00	-21.56	Average	Line
12		7.921	27.70	9.73	37.43	60.00	-22.57	QP	Line

Remark:

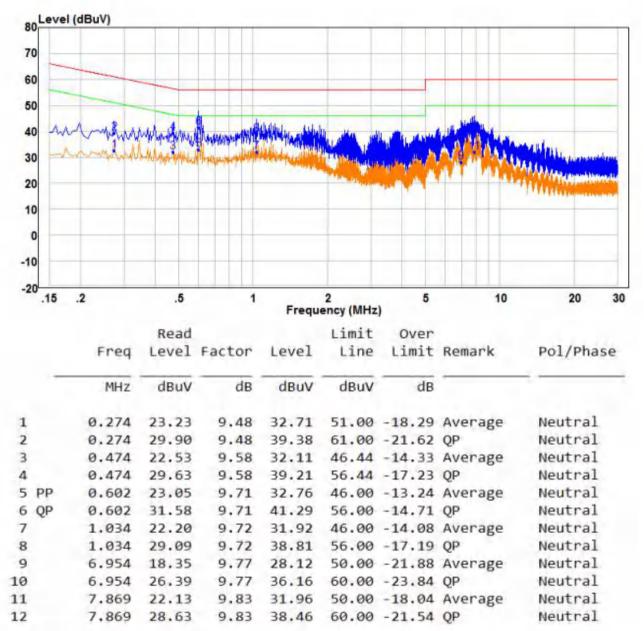
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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.



Neutral line:



Remark:

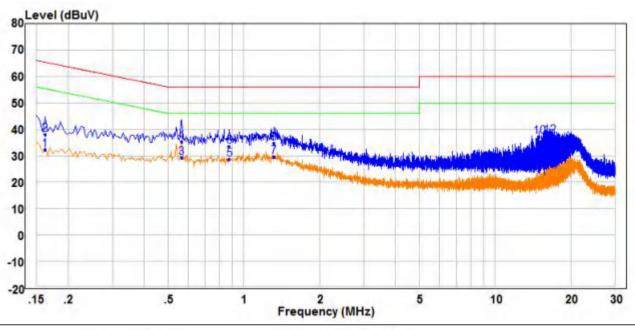
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



2#

Measurement Data





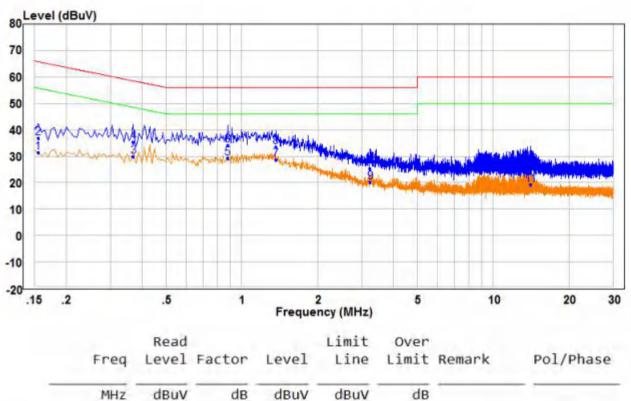
		Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark	Pol/Phase
	-	MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.162	22.72	9.49	32,21	55.36	-23.15	Average	Line
2		0.162	28.45	9.49	37,94	65,36	-27.42	QP	Line
3		0.566	19.49	9.65	29.14	46.00	-16.86	Average	Line
4	QP	0.566	25.65	9.65	35.30	56.00	-20.70	QP	Line
5		0.874	18.87	9.66	28.53	46.00	-17.47	Average	Line
6		0.874	23.70	9.66	33.36	56.00	-22.64	QP	Line
7	PP	1.318	19.99	9,53	29.52	46.00	-16.48	Average	Line
8		1.318	25.08	9.53	34.61	56.00	-21.39	QP	Line
9		14.901	14.35	9.89	24.24	50.00	-25.76	Average	Line
10		14.901	27.23	9.89	37.12	60.00	-22.88	QP	Line
11		16.425	16.88	9.95	26.83	50.00	-23.17	Average	Line
12		16.425	27.59	9,95	37.54	60.00	-22.46	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.



Neutral line:



_	MHz	dBuV	dB	dBuV	dBuV	dB		_
1	0.155	21.84	9.48	31.32	55.73	-24.41	Average	Neutral
2	0.155	27.27	9.48	36.75	65.73	-28.98	QP	Neutral
3	0.370	20.24	9.53	29.77	48.50	-18.73	Average	Neutral
4	0.370	25.86	9.53	35.39	58.50	-23.11	QP	Neutral
5 PP	0.880	19.49	9.77	29.26	46.00	-16.74	Average	Neutral
6 QP	0.880	24.46	9.77	34.23	56.00	-21.77	QP	Neutral
7	1.365	18.86	9.72	28.58	46.00	-17.42	Average	Neutral
8	1.365	23.69	9.72	33.41	56.00	-22.59	QP	Neutral
9	3.245	10.37	9.75	20.12	46.00	-25.88	Average	Neutral
10	3.245	15.68	9.75	25.43	56.00	-30.57	QP	Neutral
11	14,060	9.25	9.92	19.17	50.00	-30.83	Average	Neutral
12	14.060	16.74	9.92	26.66	60.00	-33.34	QP	Neutral

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



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

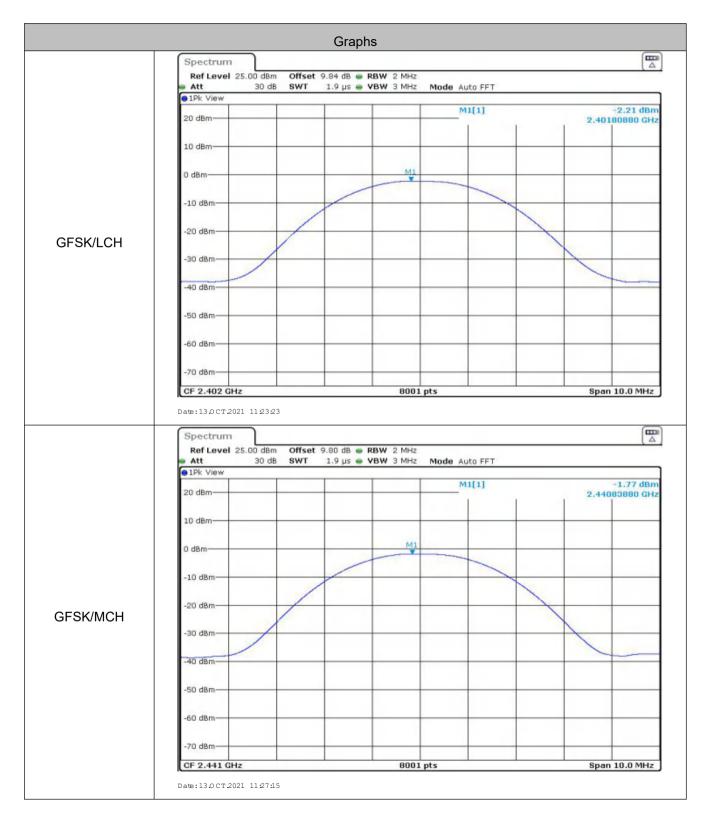


Measurement Data

	GFSK mode	9	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-2.210	21.00	Pass
Middle	-1.770	21.00	Pass
Highest	-1.560	21.00	Pass
	π/4DQPSK m	ode	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-3.050	21.00	Pass
Middle	-1.680	21.00	Pass
Highest	-3.870	21.00	Pass
	8DPSK mod	e	
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	-4.160	21.00	Pass
Middle	-3.820	21.00	Pass
Highest	-2.310	21.00	Pass



Test plot as follows:





	Spectrum						
	Att 30 dB SW	fset 9.80 dB 🖷 RBV VT 1.9 µs 🖷 VBV		Auto FFT			
	20 dBm			M1[1]	_		-1.56 dBm 39880 GHz
	10 dBm						
	0 dBm		M1				
	-10 dBm						
	-20 dBm						
GFSK/HCH	-30 dBm		_	-			
	-40 dBm						
	-50 dBm	_		_			
	-60 dBm	_					
	-70 dBm						_
	CF 2.48 GHz Date:13.0 CT 2021 12:13:39 Spectrum Ref Level 25.00 dBm Off	fset 9.84 dB 🖷 RBV	8001 pts			Span	10.0 MHz
	Date: 13.0 CT 2021 12:13:39		✔ 2 MHz	Auto FFT		Span	
	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Of Att 30 dB SW		✔ 2 MHz	Auto FFT M1[1]			-3.05 dBm
	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Off Att 30 dB SW 1Pk View		✔ 2 MHz				-3.05 dBm
	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Of Att 30 dB SW 1Pk View 20 dBm		✔ 2 MHz				-3.05 dBm
	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Of Att 30 dB SW 10 dBm 10 dBm		V 2 MHz V 3 MHz Mode				-3.05 dBm
	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Of Att 30 dB SW 10 dBm 0 dBm 0 dBm		V 2 MHz V 3 MHz Mode				-3.05 dBm
τ/4DQPSK/LCH	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Of Att 30 dB SW 10 dBm 10 dBm -10 dBm -10 dBm		V 2 MHz V 3 MHz Mode				-3.05 dBm
t/4DQPSK/LCH	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25.00 dBm Of Att 30 dB SW 10 dBm 10 dBm -10 dBm -20 d		V 2 MHz V 3 MHz Mode				-3.05 dBm
τ/4DQPSK/LCH	Date: 13.0 CT.2021 12:13:39 Spectrum Ref Level 25:00 dBm Of Att 30 dB SW 10 dBm 10 dBm -10 dBm -20 dBm -30 d		V 2 MHz V 3 MHz Mode				
τ/4DQPSK/LCH	Date: 13.0 CT.2021 12:13:39		V 2 MHz V 3 MHz Mode				-3.05 dBm
π/4DQPSK/LCH	Date: 13.0 CT.2021 12:13:39		V 2 MHz V 3 MHz Mode			2.402	-3.05 dBm



	Spectrum			
	Att 30 dB SWT	et 9.80 dB 👄 RBW 2 MHz 1.9 μs 👄 VBW 3 MHz	Mode Auto FFT	•
	1Pk View 20 dBm		M1[1]	-1.68 dBm 2.44058760 GHz
	10 dBm-			
	0 dBm	MI		
	-10 dBm			
	-20 dBm			
r/4DQPSK/MCH	-30 dBm			
	-40 dBm			~
	-50 dBm			
	-60 dBm			
	-70 dBm			
	CF 2.441 GHz	8001 pt	s	Span 10.0 MHz
	Date: 14.0 CT 2021 07:01:36		5	Span 10.0 MHz
	Date: 14.0 CT 2021 07:01:36	et 9.80 dB 🖶 RBW 2 MHz	Mode Auto FFT	
	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT	et 9.80 dB 🖶 RBW 2 MHz		-3.87 dBm
	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 1Pk View	et 9.80 dB 🖶 RBW 2 MHz	Mode Auto FFT	-3.87 dBm
	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 1Pk View 20 dBm	et 9.80 dB 🖶 RBW 2 MHz	Mode Auto FFT	-3.87 dBm
	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 1Pk View 20 dBm 10 dBm	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	-3.87 dBm
1/4DQPSK/HCH	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 10 dBm 10 dBm 0 dBm	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	-3.87 dBm
1/4DQPSK/HCH	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 10 dBm 10 dBm -10 dBm -10 dBm	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	-3.87 dBm
1/4DQPSK/HCH	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 10 dBm 10 dBm -10 dBm -20	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	-3.87 dBm
1/4DQPSK/HCH	Date: 14.0 CT 2021 07:01:36 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SWT 10 dBm 10 dBm -10 dBm -20 dBm -30	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	-3.87 dBm
τ/4DQPSK/HCH	Date: 14.0 CT.2021 07:01:36	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	-3.87 dBm
t/4DQPSK/HCH	Date: 14.0 CT.2021 07.01;36 Spectrum Ref Level 25.00 dBm Offsi Att 30 dB SWT 10 Hk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -50 dBm	et 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz 1	Mode Auto FFT	



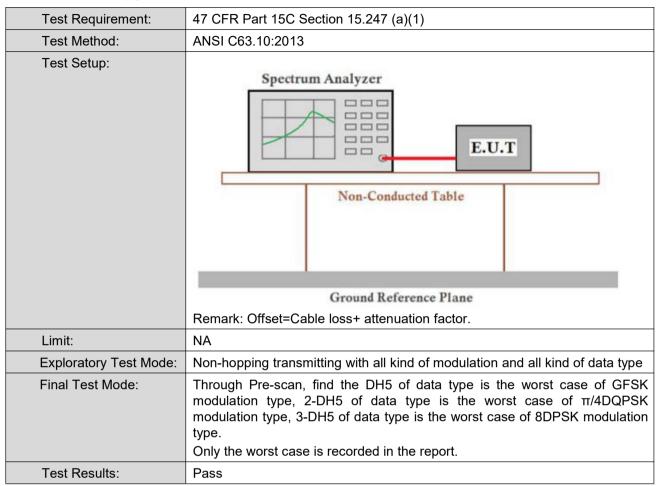
	Spectrum			
	Att 30 dB SWT	t 9.84 dB e RBW 2 MHz 1.9 μs e VBW 3 MHz Mo	de Auto FFT	
	1Pk View 20 dBm		M1[1]	-4.16 dBn 2.40178880 GH;
	10 dBm			
	0 dBm			
		m	1	
	-10 dBm			
8DPSK/LCH	-20 dBm			
	-30 dBm			
	-40 dBm			
	-50 dBm			
	-60 dBm			
	-70 dBm			Span 10.0 MHz
	CF 2.402 GHz Date:14.0CT.2021 07:08:45 Spectrum Ref Level 25.00 dBm Offset	8001 pts		
	Date:14.0CT.2021 07:08:45	t 9.80 dB 👄 RBW 2 MHz	de Auto FFT	
	Date: 14.0 CT.2021 07:08:45 Spectrum Ref Level 25.00 dBm Offsel Att 30 dB SWT	t 9.80 dB 👄 RBW 2 MHz	de Auto FFT	
	Date: 14.0 CT.2021 07:08:45 Spectrum Ref Level 25.00 dBm Offset Att 30 dB SWT 1Pk View	t 9.80 dB 👄 RBW 2 MHz		-3.82 dBn
	Date: 14.0 CT.2021 07:08:45 Spectrum Ref Level 25.00 dBm Offset Att 30 dB SWT 1Pk View 20 dBm	t 9.80 dB 👄 RBW 2 MHz		-3.82 dBn
	Date: 14.0 CT 2021 07:08:45	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn
8DPSK/MCH	Date: 14.0 CT 2021 07:08:45	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn
8DPSK/MCH	Date: 14.0 CT 2021 07:08:45 Spectrum Ref Level 25.00 dBm Offsel Att 30 dB SWT 10 dBm 10 dBm -10 dBm	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn
8DPSK/MCH	Date: 14.0 CT 2021 07:08:45	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn
8DPSK/MCH	Date: 14.0 CT 2021 07:08:45	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn
8DPSK/MCH	Date: 14.0 CT 2021 07:08:45	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn
8DPSK/MCH	Date: 14.0 CT 2021 07:08:45	t 9.80 dB ● RBW 2 MHz 1.9 µs ● VBW 3 MHz Mo		-3.82 dBn







5.4 20dB Occupy Bandwidth

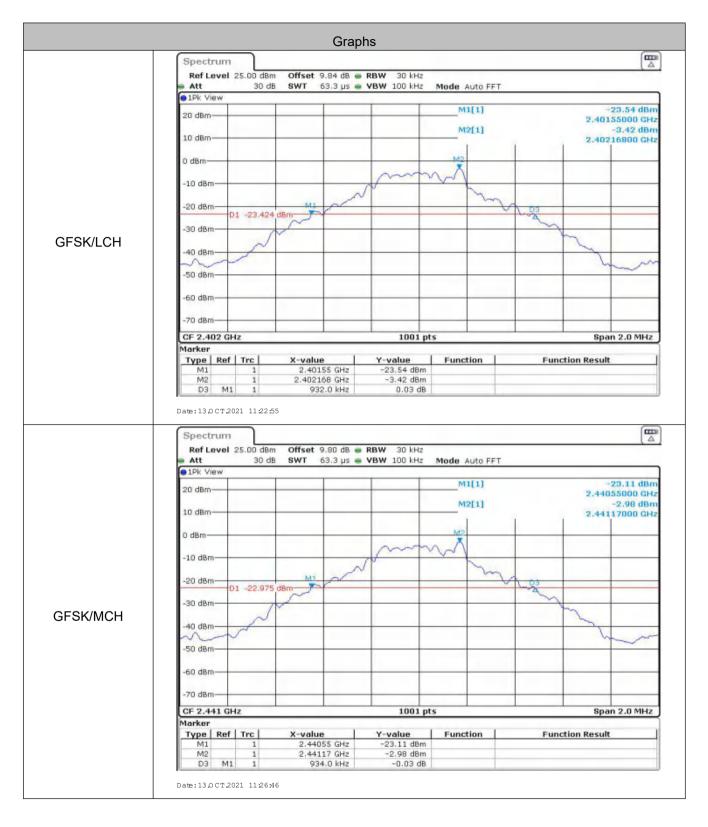


Measurement Data

Test shannel	20	0dB Occupy Bandwidth (MH	z)
Test channel	GFSK	π/4DQPSK	8DPSK
Lowest	0.932	1.330	1.298
Middle	0.934	1.330	1.296
Highest	0.934	1.332	1.296



Test plot as follows:





	Spectrum					
	Ref Level 25.00 dB Att 30 d			Mode Auto FF	r	
	• 1Pk View					
	20 dBm			M1[1]		-22.84 dBr 2.47955000 GH
	10 dBm-			M2[1]		-2.72 dBr 2.48017000 GH
	0.40-			M2		
	0 dBm		m	N		
	-10 dBm		1	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
	-20 dBm-D1 -22.72	M1		~	Vigs	
	-30 dBm				-An	
GFSK/HCH	\sim					~
	-40 dBm					-
	-50 dBm-	+ + +			-	
	-60 dBm				-	
	-70 dBm		1001 at			Second C O Mills
	CF 2.48 GHz Marker		1001 pt:	, 		Span 2.0 MHz
	Type Ref Trc	2.47955 GHz	-22.84 dBm	Function	Fun	ction Result
	M2 1	2.48017 GHz	-2.72 dBm			
		004.01414				
	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB	am Offset 9.84 dB 🕳				
	D3 M1 1 Date: 13.0 CT 2021 12:13	3:10 3m Offset 9.84 dB 🖷		Mode Auto FF1	r	
	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 c	3:10 3m Offset 9.84 dB 🖷	RBW 30 kHz	M1[1]	r	-28.32 dBr 2.40134400 GH
	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View	3:10 3m Offset 9.84 dB 🖷	RBW 30 kHz		r	-28.32 dBr
	D3 M1 1 Date:13.0CT.2021 12:13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm 10 dBm 10 dBm	3:10 3m Offset 9.84 dB 🖷	RBW 30 kHz	M1[1]	r	-28.32 dBr 2.40134400 GH -8.24 dBr
	D3 M1 1 Date:13.0CT.2021 12:13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm	3:10 3m Offset 9.84 dB 🖷	RBW 30 kHz	M1[1]	r	-28.32 dBr 2.40134400 GH -8.24 dBr
	D3 M1 1 Date:13.0CT.2021 12:13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm 10 dBm 10 dBm	3:10 3m Offset 9.84 dB 🖷	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
	D3 M1 1 Date:13.0CT.2021 12.13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
	D3 M1 1 Date:13.0CT.2021 12:13 Spectrum Ref Level 25.00 dB Att 30 cc 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
1/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 d 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm 01 -28.34	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
r/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12.13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
1/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12.13 Spectrum Ref Level 25.00 dB Att 30 c 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm M1 -30 dBm D1 -20 dBm M1 -40 dBm D1	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
t/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 cf 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm D1 -30 dBm -28.34	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
t/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 c • 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm M1 -30 dBm D1 -20 dBm M1 -30 dBm D1 -50 dBm -60 dBm	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr
t/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12.13 Spectrum Ref Level 25.00 dB Att 30 c ● 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm 0 dBm -20 dBm M1 -30 dBm 01 -20 dBm M1 -30 dBm 01 -20 dBm M1 -30 dBm 01 -70 dBm -70 dBm	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs •	RBW 30 kHz VBW 100 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr 2.40217400 GH
t/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 cf 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm M1 -30 dBm D1 -20 dBm GE -40 dBm GE -60 dBm GE -70 dBm GE CF 2.402 GHz Marker Marker	3:10 3m Offset 9.84 dB • dB SWT 63.3 μs • 42 dBm	RBW 30 kHz VBW 100 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr 2.40217400 GH
τ/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12:13 Spectrum Ref Level 25.00 dB Att 30 cf 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm M1 -30 dBm D1 -20 dBm M1 -30 dBm D1 -20 dBm M1 -30 dBm D1 -70 dBm CF 2.402 GHz	3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10	RBW 30 kHz VBW 100 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr 2.40217400 GH
t/4DQPSK/LCH	D3 M1 1 Date: 13.0 CT 2021 12.13 Spectrum Ref Level 25.00 dB Att 30 dF 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -0 dBm -20 dBm -10 dBm -30 dBm -28.4 -40 dBm -60 dBm -60 dBm -70 dBm CF 2.402 GHz Marker Type Ref Trc	3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10 3:10	RBW 30 kHz VBW 100 kHz	M1[1] M2[1]		-28.32 dBr 2.40134400 GH -8.24 dBr 2.40217400 GH

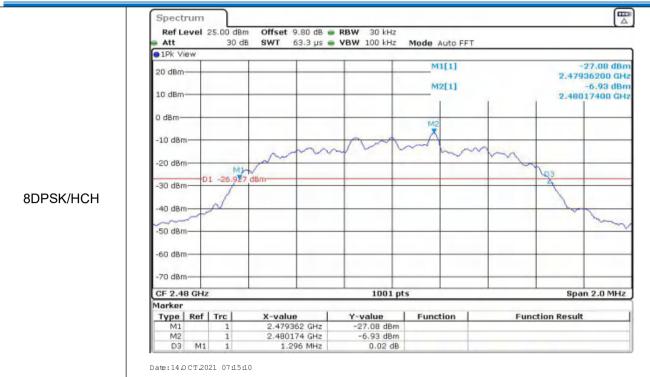


	Spectrum		E Contra
		RBW 30 kHz VBW 100 kHz Mode Auto FF	
	• 1Pk View	M1[1]	-27.84 dBm
	20 dBm	M2[1]	2,44034400 GHz -7.78 dBm 2,44117400 GHz
			2.44117400 GH2
	0 dBm	M2	
	-10 dBm	and the	m
	-20 dBm		thes .
r/4DQPSK/MCH	-30 dBm D1 -27.785 dBm		T
	-40 dBm		
	-50 dBm-		~
	-60 dBm		
	-70 dBm		
	CF 2.441 GHz	1001 pts	Span 2.0 MHz
	Marker Type Ref Trc X-value	Y-value Function	Function Result
	M1 1 2.440344 GHz	-27.84 dBm	
	M2 1 2.441174 GHz	-7.78 dBm	
	D3 M1 1 1.33 MHz Date:14.0CT.2021 07.01.07 Spectrum Ref Level 25.00 dBm Offset 9.80 dB	-0.30 dB	
	D3 M1 1 1.33 MHz Date: 14.0 CT.2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs IPk View IPk View IPk View	-0.30 dB	-27.73 dBm
	D3 M1 1 1.33 MHz Date:14.0CT.2021 07.01:07 Spectrum Ref Level 25.00 dBm Offset 9.80 dB Att 30 dB SWT 63.3 µs	-0.30 dB RBW 30 kHz VBW 100 kHz Mode Auto FF	-27.73 dBm 2.47934400 GHz -7.56 dBm
	D3 M1 1 1.33 MHz Date: 14.0 CT 2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs 1Pk View 20 dBm 10 dBm 10 dBm	-0.30 dB RBW 30 kHz VBW 100 kHz M1[1]	-27.73 dBm 2.47934400 GHz
	D3 M1 1 1.33 MHz Date:14.0CT.2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs IPk View 20 dBm 10 dBm 10 dBm 10 dBm	-0.30 dB RBW 30 kHz VBW 100 kHz M1[1]	-27.73 dBm 2.47934400 GHz -7.56 dBm
	D3 M1 1 1.33 MHz Date:14.0 CT 2021 07.01.07 Spectrum Offset 9.80 dB Att 30 dB SWT 63.3 µs 1Pk View 20 dBm 10 dBm 10 dBm 10 dBm 0 dBm 0 dBm 0 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm
	D3 M1 1 1.33 MHz Date: 14.0 CT 2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs • 1Pk View 20 dBm 0 0 0 10 dBm -10 dBm -20 dBm 0 10 0	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm
τ/4DQPSK/HCH	D3 M1 1 1.33 MHz Date: 14.0 CT.2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs ● 1Pk View 20 dBm 10 dBm 10 dBm 10 dBm 0 dBm 10 dBm 10 dBm -20 dBm M1 -30 dBm 01 -27 564 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
t/4DQPSK/HCH	D3 M1 1 1.33 MHz Date:14.0 CT 2021 07.01.07 Spectrum Offset 9.80 dB Att 30 dB SWT 63.3 µs ● 1Pk View 20 dBm 0 0 0 10 dBm 0 0 0 0 0 -20 dBm 0 -27 564 dBm -30 dBm 0 -40 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
τ/4DQPSK/HCH	D3 M1 1 1.33 MHz Date: 14.0 CT 2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs ● 1Pk View 20 dBm 0 0 0 10 dBm 0 0 0 0 -10 dBm 0 -22 dBm 0 -27 364 dBm -40 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
τ/4DQPSK/HCH	D3 M1 1 1.33 MHz Date:14.0 CT 2021 07.01.07 Spectrum Offset 9.80 dB Att 30 dB SWT 63.3 µs ● 1Pk View 20 dBm 0 0 0 10 dBm 0 0 0 0 0 -20 dBm 0 -27 564 dBm -30 dBm 0 -40 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
t/4DQPSK/HCH	D3 M1 1 1.33 MHz Date: 14.0 CT.2021 07:01:07 Spectrum Offset 9.80 dB Att 30 dB SWT 63.3 µs ● 1Pk View 20 dBm 0 0 0 10 dBm 0 0 0 0 0 -10 dBm -10 dBm -10 0 0 0 -10 0 0 -10 0 0 -10 0 0 -10 0 0 -10 0 -10 0 0 -10 0 -10 0 -10 0 -10 0 -10 0 -10 0 -10 -10 0 -10 0 -10 0 -10 -10 0 -10 0 -10 0 -10 0 -10 0 -10 0 -10 0 0 -10 0 0 0 -10 0 0 0 0 0 0	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
1/4DQPSK/HCH	D3 M1 1 1.33 MHz Date: 14.0 CT.2021 07:01:07 Spectrum Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs ● 1Pk View 20 dBm 0 0 0 10 dBm 0 0 0 0 -20 dBm 0 -27.564 dBm -30 dBm -30 dBm -50 dBm -50 dBm -70 dBm -70 dBm -70 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
t/4DQPSK/HCH	D3 M1 1 1.33 MHz Date: 14.0 CT.2021 07:01:07 Spectrum Offset 9.80 dB Att 30 dB SWT 63.3 µs ● 1Pk View 20 dBm 0 0 0 10 dBm 0 0 0 0 0 -10 dBm -10 dBm -10 0 0 0 -10 0 0 -10 0 0 -10 0 0 -10 0 0 -10 0 -10 0 0 -10 0 -10 0 -10 0 -10 0 -10 0 -10 0 -10 -10 0 -10 0 -10 0 -10 -10 0 -10 0 -10 0 -10 0 -10 0 -10 0 -10 0 0 -10 0 0 0 -10 0 0 0 0 0 0	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
τ/4DQPSK/HCH	D3 M1 1 1.33 MHz Date: 14.0 CT 2021 07:01:07 Ref Level 25:00 dBm Offset 9:80 dB Att 30 dB SWT 63:3 µs ● 1Pk View 20 dBm 0 0 10 dBm 0 0 0 -10 dBm 0 0 0 -30 dBm 0 -27 64 dBm -40 dBm -30 dBm -27 64 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -27 544 dBm -70 dBm -27 247 2479344 GHz	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz
t/4DQPSK/HCH	D3 M1 1 1.33 MHz Date:14.0 CT 2021 07.01.07 Ref Level 25.00 dBm Offset 9.80 dB Att 30 dB SWT 63.3 µs ●1Pk View 20 dBm 0 0 10 dBm 0 0 0 -20 dBm 0 -27 564 dBm -30 dBm -30 dBm -27 564 dBm -50 dBm -60 dBm -50 dBm -60 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm -70 dBm	-0.30 dB	-27.73 dBm 2.47934400 GHz -7.56 dBm 2.48017400 GHz



	Ref Level 25.00 dB Att 30 d			Mode Auto FF	т		
	1Pk View						
	20 dBm-		-	M1[1]			7.54 dBm 6200 GHz
				M2[1]			7.53 dBm
	10 dBm						7400 GHz
	0 dBm						
	U UBIN			M2			
	-10 d8m		1 miles	A			
		m	w v v	m	m		
	-20 d8mM1	m/			2	1	
	-30 dBm D1 -27.55	3 dBm				403	
8DPSK/LCH							
	-40 dBm						
							my
	-50 dBm-						
	-60 d8m					-	
	-70 dBm						
	CF 2.402 GHz	· · ·	1001 pts	5		Span	2.0 MHz
	Marker						
	Type Ref Trc M1 1	2.401362 GHz	-27.54 dBm	Function	Fur	nction Result	
	M2 1	2.401362 GHz	-7.53 dBm				
	D3 M1 1	1.298 MHz	-0.25 dB				
	Date: 14.0 CT 2021 07:08:		RBW 30 kHz				
	\frown	m Offset 9.80 dB 🖷		Mode Auto FF	т		
	Spectrum Ref Level 25.00 dB	m Offset 9.80 dB 🖷			T		
	Spectrum Ref Level 25.00 dBa Att 30 d	m Offset 9.80 dB 🖷		Mode Auto FF	т		7.11 dBm
	Spectrum Ref Level 25.00 dBr Att 30 d 1Pk View 20 dBm	m Offset 9.80 dB 🖷			T	2.4403	7.11 dBn 5200 GHz
	Spectrum Ref Level 25.00 dBr Att 30 d 1Pk View	m Offset 9.80 dB 🖷		M1[1]	T	2.4403	7.11 dBm 6200 GHz 7.11 dBm
	Spectrum Ref Level 25.00 dB/ Att 30 d 1Pk View 20 dBm- 10 dBm-	m Offset 9.80 dB 🖷		M1[1]	T	2.4403	7.11 dBm 6200 GHz 7.11 dBm
	Spectrum Ref Level 25.00 dBr Att 30 d 1Pk View 20 dBm	m Offset 9.80 dB 🖷		M1[1]	T	2.4403	7.11 dBm 6200 GHz 7.11 dBm
	Spectrum Ref Level 25.00 dB/ Att 30 d 1Pk View 20 dBm- 10 dBm-	m Offset 9.80 dB 🖷		M1[1] M2[1]	T	2.4403	7.11 dBm 5200 GHz 7.11 dBm
	Spectrum Ref Level 25.00 dBu Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm	m Offset 9.80 dB 🖷		M1[1] M2[1]	T	2.4403	7.11 dBm 6200 GHz 7.11 dBm
	Spectrum Ref Level 25.00 dBu Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 6200 GHz 7.11 dBm
	Spectrum Ref Level 25.00 dB Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2.4403	7.11 dBm 6200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dBu Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 5200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dB Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 6200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dBs Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm 01 -27.10	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 5200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dBu Att 30 d 10 dBm 0 dBm 10 dBm 0 dBm -10 dBm 01 -27.10	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 5200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dBs Att 30 d 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm 01 -27.10	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 5200 GHz 7.11 dBm 7200 GHz
8DPSK/MCH	Spectrum Ref Level 25.00 dB Att 30 d 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 5200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dB Att 30 d 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]	T	2,44030	7.11 dBm 5200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dBu Att 30 d 10 dBm 10 dBm 10 dBm 10 dBm -10 dBm 01 -27.10 -30 dBm 01 -27.10 -40 dBm -50 dBm -60 dBm -60 dBm	m Offset 9.80 dB B SWT 63.3 µs		M1[1] M2[1]		2,4403	7.11 dBm 5200 GHz 7.11 dBm
8DPSK/MCH	Spectrum Ref Level 25.00 dBu Att 30 d 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz Marker	m Offset 9.80 dB B SWT 63.3 µs 8 dBm	1001 pts	M1[1] M2[1] 		2,44030 2,44111 0 0 0 3 0 3 0 5 pan	7.11 dBm 5200 GHz 7.11 dBm 7200 GHz
8DPSK/MCH	Spectrum Ref Level 25.00 dB Att 30 d 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz Marker Type Ref	m Offset 9.80 dB B SWT 63.3 µs 8 dBm 8 dBm X-value	VBW 100 kHz	M1[1] M2[1]		2,4403	7.11 dBm 5200 GHz 7.11 dBm 7200 GHz
8DPSK/MCH	Spectrum Ref Level 25.00 dBu Att 30 d 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm -70 dBm CF 2.441 GHz Marker	m Offset 9.80 dB B SWT 63.3 µs 8 dBm	1001 pts	M1[1] M2[1] 		2,44030 2,44111 0 0 0 3 0 3 0 5 pan	7.11 dBm 5200 GHz 7.11 dBm 7200 GHz







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

	GFSK mod	le	
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.000	≥0.736	Pass
Middle	1.005	≥0.736	Pass
Highest	1.322	≥0.736	Pass
	π/4DQPSK m	ode	
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.000	≥0.929	Pass
Middle	1.000	≥0.929	Pass
Highest	1.005	≥0.929	Pass
	8DPSK mo	de	
Test channel	Carrier Frequencies Separation (MHz)	Limit (MHz)	Result
Lowest	1.000	≥0 . 931	Pass
Middle	1.332	≥0 . 931	Pass
Highest	1.000	≥0 . 931	Pass

Mode	20dB bandwidth (MHz) (worse case)	Limit (MHz) (Carrier Frequencies Separation)
GFSK	1.104	0.736
π/4DQPSK	1.394	0.929
8DPSK	1.396	0.931



Test plot as follows:





	Spectrum					
	Ref Level 25.00 dBm Offs Att 30 dB SW1	eet 9.80 dB				
	20 dBm		M1[1] D1[1]		2.478	-1.73 dBm 85096 GHz -0.03 dB
	10 dBm				1.3	32212 MHz
	0 dBm	MI	~	01		
	-10 dBm			1		
	-20 dBm				~	
GFSK/HCH	-30 dBm					
	-40 dBm					1
	-50 dBm					
	-60 dBm					
	-70 dBm					
	Start 2.478 GHz	625	i pts		Stop 2	2.481 GHz
	Date: 14.0 CT 2021 08 28:38		-			
	Date: 14.0 CT.2021 08:28:38 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SW1	tet 9.84 dB ● RBW 100 kł Γ 18.9 μs ● VBW 300 kł				
	Date: 14.0 CT 2021 08 28:38 Spectrum Ref Level 25.00 dBm Offs		M1[1]			-6.44 dBm 17308 GHz
	Date: 14.0 CT.2021 08:28:38 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SW1 1Pk View		Hz Mode Auto FFT		2.402	-6.44 dBm 17308 GHz -0.15 dB
	Date: 14.0 CT.2021 08:28:38 Spectrum Ref Level 25.00 dBm Offs Att 30 dB SW1 1Pk View 20 dBm	r 18.9 µs ● VBW 300 kH	M1[1]		2.402	-6.44 dBm 17308 GHz -0.15 dB
	Date: 14.0 CT.2021 08:28:38		M1[1]	01	2.402	-6.44 dBm 17308 GHz -0.15 dB
	Date: 14.0 CT.2021 08:28:38	r 18.9 µs ● VBW 300 kH	M1[1]	01	2.402	-6.44 dBm 17308 GHz
1/4DQPSK/LCH	Date: 14.0 CT.2021 08:28:38	r 18.9 µs ● VBW 300 kH	M1[1]	01	2.402	-6.44 dBm 17308 GHz -0.15 dB
r/4DQPSK/LCH	Date: 14.0 CT.2021 08:28:38	r 18.9 µs ● VBW 300 kH	M1[1]	01	2.402	-6.44 dBm 17308 GHz -0.15 dB
1/4DQPSK/LCH	Date: 14.0 CT 2021 0828:38	r 18.9 µs ● VBW 300 kH	M1[1]	01	2.402	-6.44 dBm 17308 GHz -0.15 dB
τ/4DQPSK/LCH	Date: 14.0 CT 2021 0828:38	r 18.9 µs ● VBW 300 kH	M1[1]		2.402	-6.44 dBm 17308 GHz -0.15 dB
τ/4DQPSK/LCH	Date: 14.0 CT 2021 0828:38	r 18.9 µs ● VBW 300 kH	M1[1]		2.402	17308 GHz -0.15 dB
τ/4DQPSK/LCH	Date: 14.0 CT 2021 0828:38	F 18.9 μs • VBW 300 kł	M1[1]		2.402	-6.44 dBm 17308 GHz -0.15 dB



	Spectrum Ref Level 25.00 Att 3	dBm Offse 0 dB SWT	t 9.80 dB 🕳 🛙	RBW 100 kHz VBW 300 kHz		Auto FFT			
	1Pk View	o db - birri	10.5 µ5	1011 300 KHz	Mode	ato PPT			
	20 dBm					1[1] 1[1]			-6.03 dBm 17308 GHz -0.07 dB
	10 dBm		-					1.	00000 MHz
	0 dBm		M		-				
	-10 dBm	~~~~	~			m	DI		
	-20 dBm	-	_						
/4DQPSK/MCH	-30 dBm		_						
	-40 dBm		_						
	-50 dBm		_						
	-60 dBm								
	-70 dBm								
				605	nte			Stop 2	2.443 GHz
	Start 2.44 GHz Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00		t 9.80 dB 🖷 I	625					
	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3		t 9.80 dB 🕳 🖡 18.9 µs 🖷 ۱		2	Auto FFT			
	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00	dBm Offse		RBW 100 kHz	2 Z Mode /	Auto FFT			-5.76 dBm 17308 GH2
	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 1Pk View	dBm Offse		RBW 100 kHz	2 z Mode / M		1	2,479	-5.76 dBm 17308 GHz -0.04 dB
	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 1Pk View 20 dBm	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]		2,479	-5.76 dBm 17308 GHz -0.04 dB
	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 IPk View 20 dBm 10 dBm	dBm Offse		RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]	D1	2,479	-5.76 dBm 17308 GHz -0.04 dB
	Date: 14.0 CT 2021 07	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]	D1	2,479	-5.76 dBm 17308 GHz -0.04 dB
/4DQPSK/HCH	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 1Pk View 20 dBm 10 dBm 0 dBm -10 dBm -10 dBm	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]	D1	2,479	-5.76 dBm 17308 GHz -0.04 dB
/4DQPSK/HCH	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm -10 dBm -20 dBm -20 dBm	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]	DI	2,479	-5.76 dBm 17308 GHz -0.04 dB
1/4DQPSK/HCH	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]	DI	2,479	-5.76 dBm 17308 GHz -0.04 dB
1/4DQPSK/HCH	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]	DI	2,479	-5.76 dBm 17308 GHz -0.04 dB
1/4DQPSK/HCH	Date: 14.0 CT 2021 07 Spectrum Ref Level 25.00 Att 3 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	dBm Offse	18.9 µs 🖷 🕯	RBW 100 kHz VBW 300 kHz	2 z Mode / M	1[1]		2,479	-5.76 dBm 17308 GHz -0.04 dB 00481 MHz



	Spectrum Ref Level 25.00 d		4 dB - RBW 100					
	Att 30 1Pk View	dB SWT 18	.9 µs 🖷 VBW 300	kHz Mode	Auto FFT			
	20 dBm-				M1[1]			-6.43 dBm 17308 GHz
	10 dBm	_			01[1]		1.	-0.19 dB 00000 MHz
	0 dBm-							
			MI		~	DI		\sim
	-10 dBm	~						
8DPSK/LCH	-20 dBm					1		
	-30 dBm							
	-40 dBm							
	-50 dBm			-				
	-60 dBm			_				
	-70 dBm							
	Stort 2.401 GHz Date: 14.0 CT 2021 07:4 Spectrum Ref. evel 25.00.d			25 pts				2.404 GHz
	Date: 14 D CT 2021 07:4 Spectrum Ref Level 25.00 d Att 30	Bm Offset 9.8	6 10 dB ● RBW 100 .9 µs ● VBW 300	kHz	Auto FFT			
	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25.00 d Att 30 10k View	Bm Offset 9.8	0 dB 🕳 RBW 100	kHz kHz Mode	Auto FFT			-5.99 dBm
	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25.00 d Att 30 9 1Pk View 20 dBm	Bm Offset 9.8	0 dB 🕳 RBW 100	kHz kHz Mode			2.440	-5.99 dBm 84615 GHz -0.04 dB
	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25.00 d Att 30 10k View	Bm Offset 9.8	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]		2.440	-5.99 dBm 84615 GHz -0.04 dB
	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25.00 d Att 30 9 1Pk View 20 dBm	Bm Offset 9.8	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	DI	2.440	-5.99 dBm 84615 GHz -0.04 dB 33173 MHz
	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25.00 d Att 30 10 dBm 10 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	D1	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25:00 d Att 30 • 1Pk View 20 dBm 10 dBm 0 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	D1	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25:00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	D1	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14.0 CT.2021 07:4 Spectrum Ref Level 25:00 d Att 30 • 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	D1	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14 DCT.2021 07:4 Spectrum Ref Level 25:00 d Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	01	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14 DCT 2021 07:4 Spectrum Ref Level 25:00 d Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	01	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14 DCT 2021 07:4 Spectrum Ref Level 25:00 d Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm	Bm Offset 9.8 dB SWT 18	0 dB 🕳 RBW 100	kHz kHz Mode	M1[1]	01	2.440	-5.99 dBm 84615 GHz -0.04 dB
8DPSK/MCH	Date: 14 DCT 2021 07:4 Spectrum Ref Level 25:00 d Att 30 1Pk View 20 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm	Bm Offset 9.8 dB SWT 18	ю dB • RBW 100 9 µs • VBW 300	kHz kHz Mode	M1[1]	D1	2.440	-5.99 dBm 84615 GHz -0.04 dB



	Att 30 dB SW	T 18.9 µs 🖷 VBW 300 kHz Mode Au	ito FFT
	1Pk View 20 dBm	M1[2.47917308 GH
DPSK/HCH	10 dBm 0 dBm -10 dBm -20 dBm	Ma contraction of the second s	
	-30 dBm		
	-60 dBm -70 dBm Start 2.478 GHz	625 pts	Stop 2.481 GHz



5.6 Hopping Channel Number

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=Cable loss+ attenuation factor.
Limit:	At least 15 channels
Exploratory Test Mode:	hopping transmitting with all kind of modulation and all kind of data type
Final Test Mode:	Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of 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

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



Test plot as follows:

	Graphs	
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT	
	1Pk View 20 dBm D1[1]	-3,13 dBm 2,401952 GHz 0,63 dB 78,063 MHz
GFSK/Hop	10 dBm 0 dBm -10 dBm -10 dBm -10 dBm -20 dBm	
	-B0 dBm	
	-70 dBm Stort 2.4 GHz 600 pts Date: 14.0 CT 2021 08:30:14	Stop 2.4835 GHz
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 94.8 µs VBW 300 kHz Mode Auto FFT	
	• 1Pk View	
	20 dBm	-9.42 dBm
	20 dBm D1[1]	-9.42 dBm 2.402230 GHz 1.91 dB 77.785 MHz
	20 dBm 01[1]	2.402230 GHz 1.91 dB
	20 dBm D1[1]	2.402230 GHz 1.91 dB
π/4DQPSK/Hop	20 dBm 01[1]	2.402230 GHz 1.91 dB 77.785 MHz
π/4DQPSK/Hop	20 dBm	2.402230 GHz 1.91 dB 77.785 MHz
π/4DQPSK/Hop	20 dBm D1[1] 10 dBm D1[1] 0 dBm 0 -10 yearyon 0 -20 dBm 0 -30 dBm 0	2.402230 GHz 1.91 dB 77.785 MHz
π/4DQPSK/Hop	20 dBm D1[1] 10 dBm D1[1] 0 dBm 0 -10 yearyo Multiply Multi Multi Multiply Multiply Multiply Multiply Multiply Multiply Mult	2.402230 GHz 1.91 dB 77.785 MHz



	Ref Level 25.00 dB Att 30 d			Auto FFT	
	Att 30 c IPk View	08 2MI 94'8 hz 🧰	VBW JUU KHZ MODE	Auto FFT	
	20 dBm-			м1[1] D1[1]	-8.37 dBn 2.401952 GH 0.72 dt
	10 dBm				78.063 MH
	0 dBm				
	-26 app Alpon When	oppose Hopperson	Marganahan	man man	May hartfringel
8DPSK/Hop	-20 dBm				
	-30 dBm				
	-40 dBm				
	-50 dBm				1
	-60 dBm				
	-70 dBm				
	Start 2.4 GHz		600 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

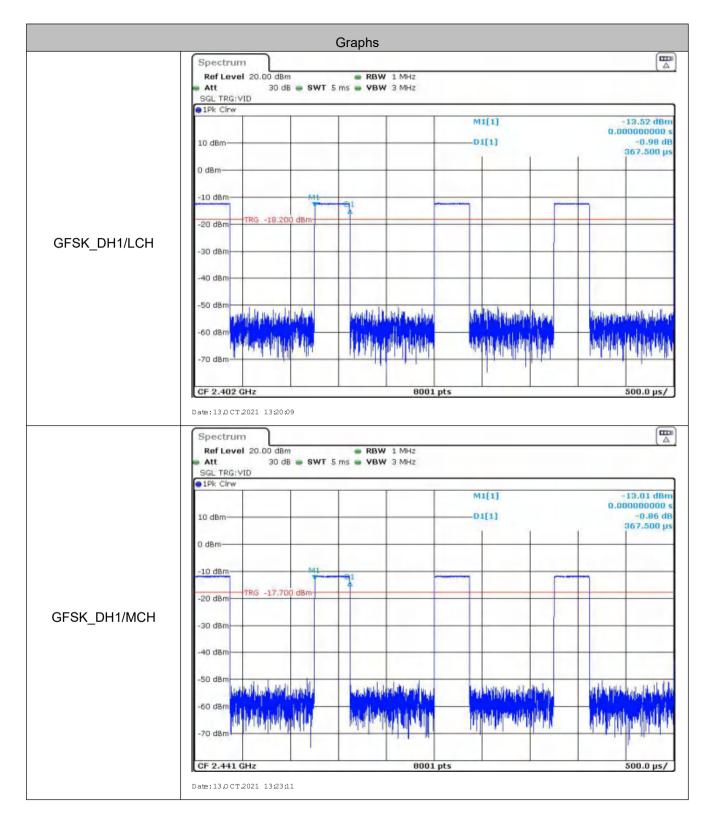
Mode	Packet	Channel	Burst Width [ms/hop/ch]	Dwell Time[s]	Limit (second)
GFSK	DH1	LCH	0.37	0.118	≤0.4
GFSK	DH1	МСН	0.37	0.118	≤0.4
GFSK	DH1	НСН	0.37	0.118	≤0.4
π/4DQPSK	2DH1	LCH	0.38	0.122	≤0.4
π/4DQPSK	2DH1	МСН	0.38	0.122	≤0.4
π/4DQPSK	2DH1	НСН	0.38	0.122	≤0.4
8DPSK	3DH1	LCH	0.38	0.122	≤0.4
8DPSK	3DH1	МСН	0.38	0.122	≤0.4
8DPSK	3DH1	НСН	0.38	0.122	≤0.4
GFSK	DH3	LCH	1.62	0.259	≤0.4
GFSK	DH3	МСН	1.62	0.259	≤0.4
GFSK	DH3	НСН	1.62	0.259	≤0.4
π/4DQPSK	2DH3	LCH	1.63	0.261	≤0.4
π/4DQPSK	2DH3	МСН	1.63	0.261	≤0.4
π/4DQPSK	2DH3	НСН	1.63	0.261	≤0.4
8DPSK	3DH3	LCH	1.63	0.261	≤0.4
8DPSK	3DH3	МСН	1.63	0.261	≤0.4
8DPSK	3DH3	НСН	1.63	0.261	≤0.4
GFSK	DH5	LCH	2.87	0.306	≤0.4
GFSK	DH5	МСН	2.87	0.306	≤0.4
GFSK	DH5	НСН	2.87	0.306	≤0.4
π/4DQPSK	2DH5	LCH	2.88	0.307	≤0.4
π/4DQPSK	2DH5	МСН	2.87	0.306	≤0.4
π/4DQPSK	2DH5	НСН	2.88	0.307	≤0.4
8DPSK	3DH5	LCH	2.88	0.307	≤0.4
8DPSK	3DH5	МСН	2.88	0.307	≤0.4
8DPSK	3DH5	НСН	2.88	0.307	≤0.4

Remark:

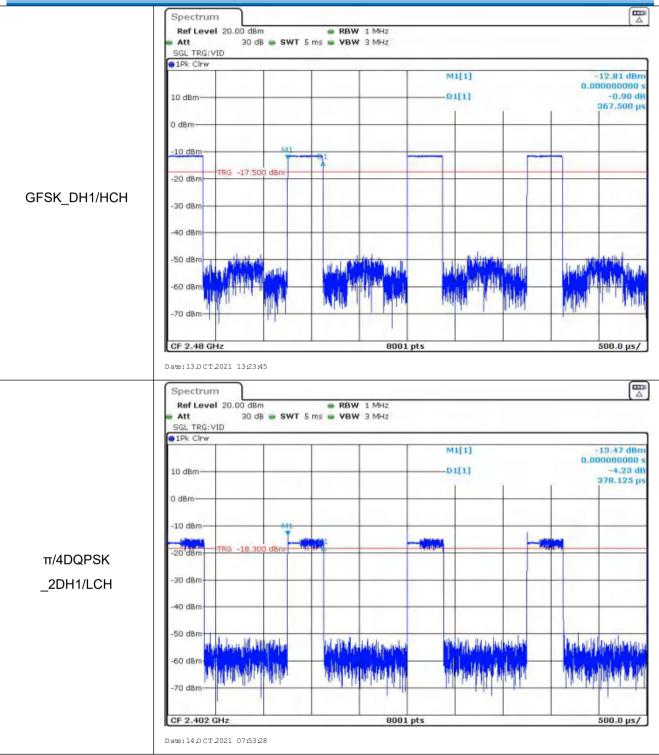
The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s DH1/2DH1/3DH1 Dwell time = Burst Width(ms)*(1600/ (2*79))*31.6 DH3/2DH3/3DH3 Dwell time = Burst Width (ms)*(1600/ (4*79))*31.6 DH5/2DH5/3DH5 Dwell time = Burst Width (ms)*(1600/ (6*79))*31.6



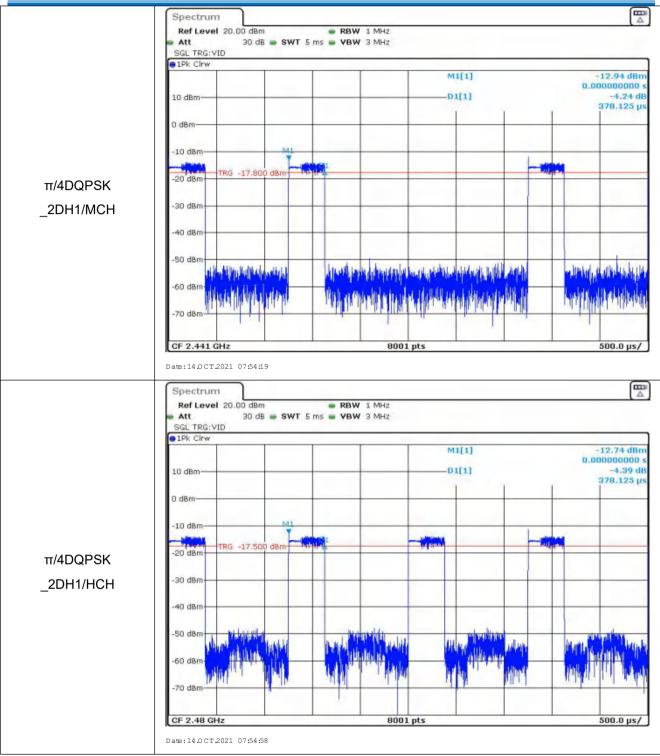
Test plot as follows:



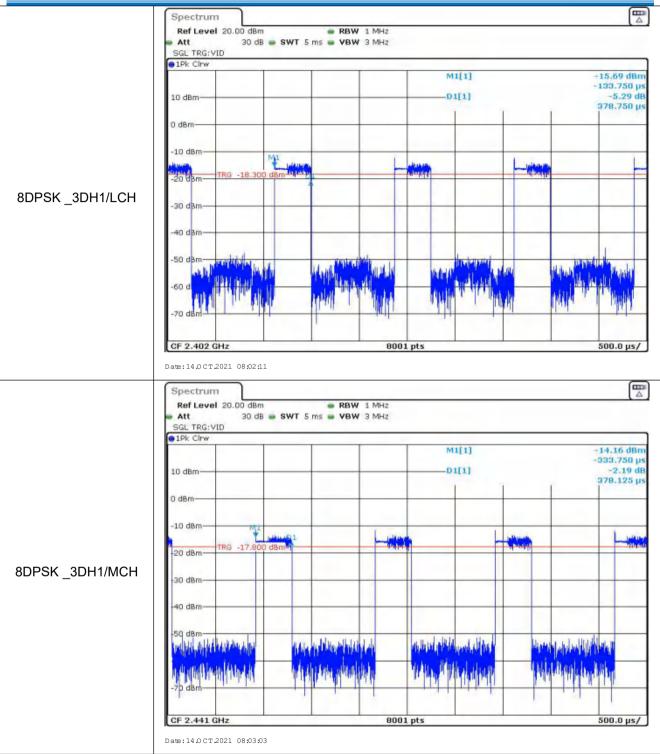




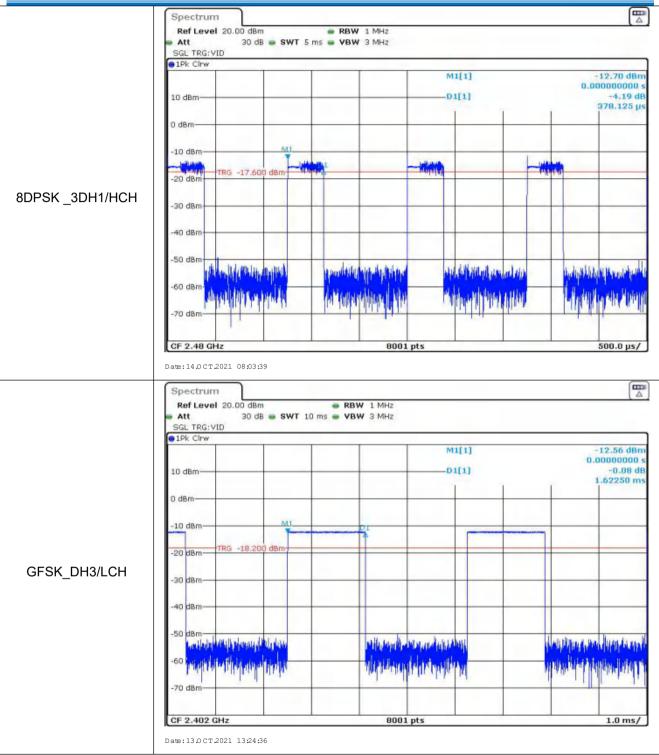




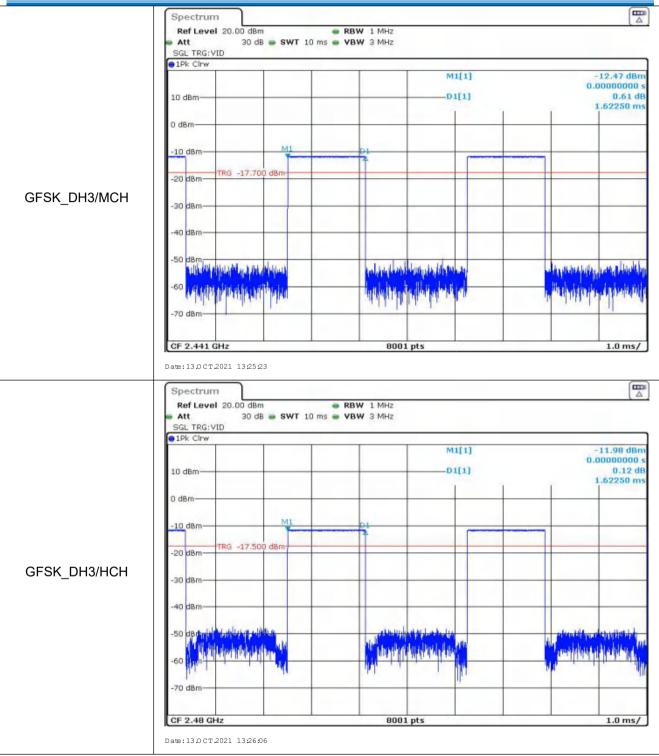








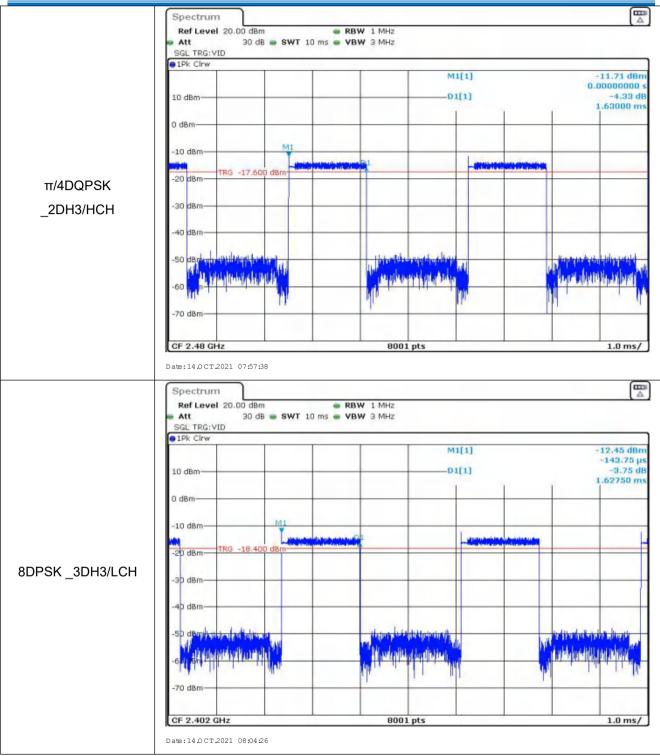






	Prostrum		
	Ref Level 20.00 dBm	BBW 1 MHz	
	Att 30 dB = SWT 10 ms	BW 3 MHz	
	SGL TRG:VID PRK Cirw		
		M1[1]	-12.55 dBm
	10 dBm	D1[1]	0.00000000 s -4.21 dB
			1.63000 ms
	0 dBm		
	-10 dBmM1		
	-10 dBm		
π/4DQPSK	-20 dBm TRG -18.300 dBm		
11/4DQP3K			
_2DH3/LCH	-30 dBm		
	-40 dBm		
	-SO dBm	addition to the indication of solid and	Al Marsh the Alt Hild at a le
	-60	the second statistical second second	the second s
	-20 Mild With the state of the	ALL AND A	A CANADA PULLA TO PARA
	-70 dBm	1 2 0 1	
	CF 2.402 GHz	8001 pts	1.0 ms/
	Date:14.0CT.2021 07:56:29		
	Ref Level 20.00 dBm	RBW 1 MHz	
	Att 30 dB SWT 10 ms		
	SGL TRG:VID PRK Cirw		
		M1[1]	~11.85 dBm
	10 dBm	-01[1]	-700.00 µs -4.26 dB
			1.62875 ms
	0 dBm		
	-10 dBmM1		
	and the second s		
π/4DQPSK	-20 dBm TRG -17.800 dBm		
_2DH3/MCH	-30 dBm-		
	-40 dBm		
	-50 dBm	a the dealer tale dates of dates	1 Likberg Lord J Billie Blue bla
	diantist friend the m	and a site of the processor	- matilian stress is low-
	A 1 Mail and A 1 Mail and A 1 Mail and A 1	other IN 18 In 14 to day with all to any	dilla dan da bit data da la la data da la da la da
	-70 dBm		
	CF 2.441 GHz	8001 pts	1.0 ms/
	Date: 14.0 CT.2021 07:57:05		
	1		





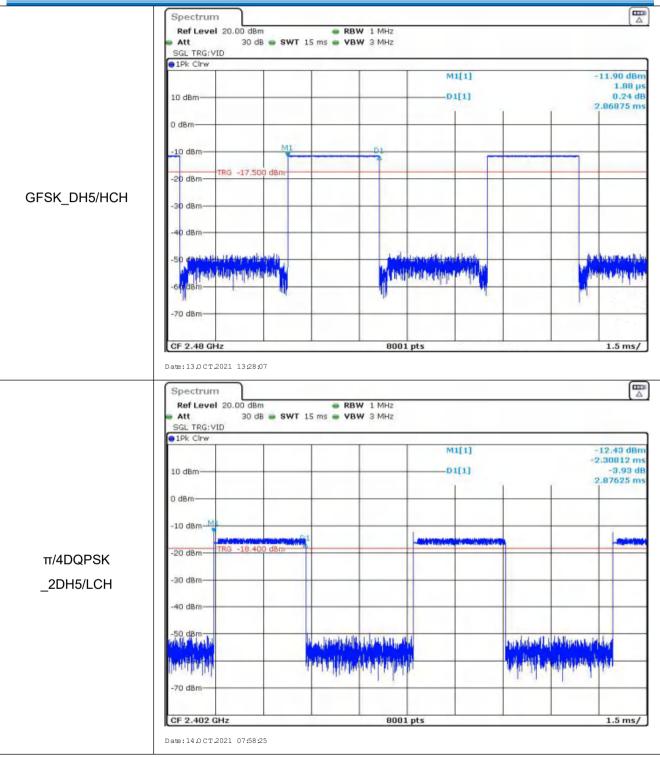


	Spectrum				
	Ref Level 20.00 dB		RBW 1 MHz		
	SGL TRG:VID	iB 👄 SWT 10 ms 👄	VBW 3 MHZ		
	●1Pk Clrw	1 1		M1[1]	-11.92 dBm
	10 dBm			D1[1]	1.25 µs -3.69 dB
	10 000				1.62750 ms
	0 dBm-				
	-10 dBm	MI			
	TRG -17.8	00 dBm			
	-20 dBm				
8DPSK_3DH3/MCH	-30 dBm				
	-40 dBm				
	-50 dBm	Ada bi	harmalist Hilds. In .	Alf taxa and	11 d Henry a the annulity toban
	-60	hit dubi	diratilia Mitro	ahan illeille	tina attribution as art
	alater helt, atter lat.]	bue of traffet	the total through	a dale der	and a filt of the tex by the
	-70 dBm				
	CF 2.441 GHz		8001 pts		1.0 ms/
	Date:14.0CT.2021 08:05	:12			
	Spectrum				
	Ref Level 20.00 dB		RBW 1 MHz		
	SGL TRG:VID	iB 👄 SWT 10 ms 👄	VBW 3 MHZ		
	• 1Pk Clrw	1		M1[1]	-11.64 dBm
	10 dBm			D1[1]	-1.59000 ms -3.89 dB
				1 1	1.62750 ms
	0 dBm-				
	-10 dBm		1		
	-20 dBm	00 dBm			
8DPSK_3DH3/HCH	LO GOM				
	-30 dBm				
	-40 dBm		_		
	50.00-				
	-S0 dBm	dunphilade	And the Laboratory	a distantia bilata	english harman i har a har an daradin
	alt Pottant loso	TRIDATION	AND	110 AD MILLION	sidio data a hadidia adulia
	-70 dBm	-11		a liner	a second second
	CF 2.48 GHz		8001 pts		1.0 ms/
	Date:14.0CT.2021 08:05	:46			



	Spectrum		
		BBW 1 MHz	
	Att 30 dB SWT 15 ms	WBW 3 MHz	
	SGL TRG:VID 1Pk Cirw		
		M1[1]	-12.38 dBm
	10 dBm	D1[1]	1.88 µs 0.05 dB
			2.86875 ms
	0 dBm		
	-10 dBmM1		
	-10 dBm		
	-20 dBm TRG -18.200 dBm		
GFSK_DH5/LCH			
	-30 dBm-		
	40 dBm		
	-40 dBm-		
	-S0 dBm	and an at all a shall be	
	station of the station of the state of the s	and the factor of a second second second	And of the Analytic Analytic Analytic Analytics
	-equipment of the state of the	THE PARTY OF A DESCRIPTION OF A DESCRIPR	all and with a flate
	-70 dBm		
	1		
	CF 2.402 GHz	8001 pts	1.5 ms/
	Date: 13.0 CT.2021 13:26:52		
	Spectrum		
	Ref Level 20.00 dBm Att 30 dB SWT 15 ms	RBW 1 MHz VBW 3 MHz	
	SGL TRG:VID 1Pk Cirw		
	LEK CITY	M1[1]	-11.93 dBm
	10 dBm	D1[1]	1.88 µs -0.01 dB
	10 dbm		2.86875 ms
	0 dBm-		
	10 dam M1		
	-10 dBm		
	-20 dBm TRG -17.700 dBm		
GFSK_DH5/MCH			
	-30 dBm		
	-40 dBm		
	-40 d8m-		
	-50 d8m	الفظه عقاره، الدفع في ريد از طريرام	سابة الأعام المنا
	-S0 dBm	al age that an a data in the state.	tel signally entre de astat
	-50 d8m	al sea to a la desta de de de la constante en tendes. Al sea to a la desta de de de la constante en tendes. Al segue de la desta de la desta de la desta de la desta de	ed tails in teacher and the second
	-S0 dBm	alaste na jiži kalityskalaste siteka alaste na jiži kalityskalaste siteka alaste na seste siteka	al till till antra læret Historig porsieller for
	-SD dam -or boy in an animatic star and	alester of the second	ind signal a standard with highly give and go given
e. en_enomen	-SD dam -or boy in an animatic star and	BOO1 pts	1.5 ms/

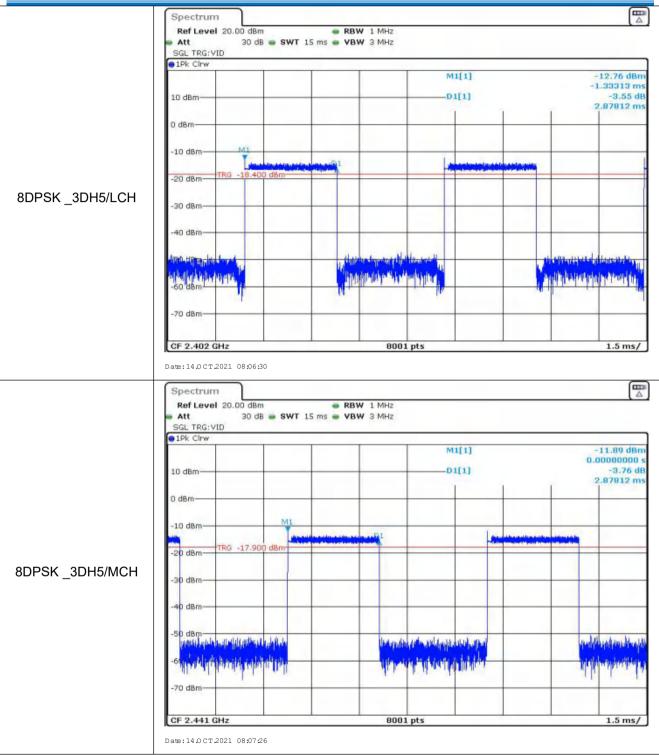






	Spectrum			
	Ref Level 20.00 dBm	RBW 1 MHz		
	Att 30 dB SW SGL TRG:VID	T 15 ms 👄 VBW 3 MHz		
	1Pk Cirw			
			M1[1]	-12.03 dBm
	10 dBm		D1[1]	-1.56563 ms -3.75 dB
				2.87438 ms
	0 dBm			
	M1			
	-10 dBm	01		Lenger Company
	-20 dBm TRG -17.800 dBm	and a contraction		
π/4DQPSK	20 0011			
2DH5/MCH	-30 dBm			
	-40 dBm-			
	-50 dBm-			
	all the second state of the second state	adably beautiful the ball	anad the part the ball of the	d <mark>a</mark> la da la constante da la const
	d an Primer Part and a state	and the transformed and define	a new particular the state	m ^a
		a second designed	and of hill.	
	-70 dBm-			
	CF 2.441 GHz	8001 pts		1.5 ms/
	Date:14.0CT.2021 08:00:16			
	Spectrum			
	Ref Level 20.00 dBm	RBW 1 MHz		
		T 15 ms 👄 VBW 3 MHz		
	SGL TRG: VID 1Pk Clrw			
			M1[1]	-11.67 dBm
	10 dBm		D1[1]	0.00000000 s -4.03 dB
				2.87625 m
	0 dBm-			
	MI			
	-10 dBm-	DI DI	10000000	
	-20 dBm TRG -17.600 dBm			
π/4DQPSK	20 0011			
2DH5/HCH	-30 dBm			
	-40 dBm-			
	-50 double of the local and a big	della state	un la monta	البلام مرجع مرجع مرجع
	ality" englars didden data and	Real banks	d hand do hite	White to at the or
	1,42 HaBm	1 F TOPPE	A COLORED A	1 that is a first of the second
				1
	-70 dBm			
	-70 dBm CF 2.48 GHz	8001 pts		1.5 ms/







	Spectrum Ref Level 20.00 dBm Att 30 dB SWT 15 r SGL TRG:VID IPIR CITY	● RBW 1 MHz ms ● VBW 3 MHz	
	10 dBm-	M1[1] D1[1]	-11.71 dBm -780.00 µs -3.85 dB 2.87812 ms
	0 dBmM1		
8DPSK_3DH5/HCH	-30 dBm		
	-50 dBm Jard Jan dan king ang Jard Jar wang Barbar Jardan Jar Jar Barbar Barbar Jardan		<mark>teri stalenti perteri teri degertari</mark> Angenerationen
	-70 dBm CF 2.48 GHz Date: 14.0 CT 2021 08:08:00	8001 pts	1.5 ms/



5.8 Band-edge for RF Conducted Emissions

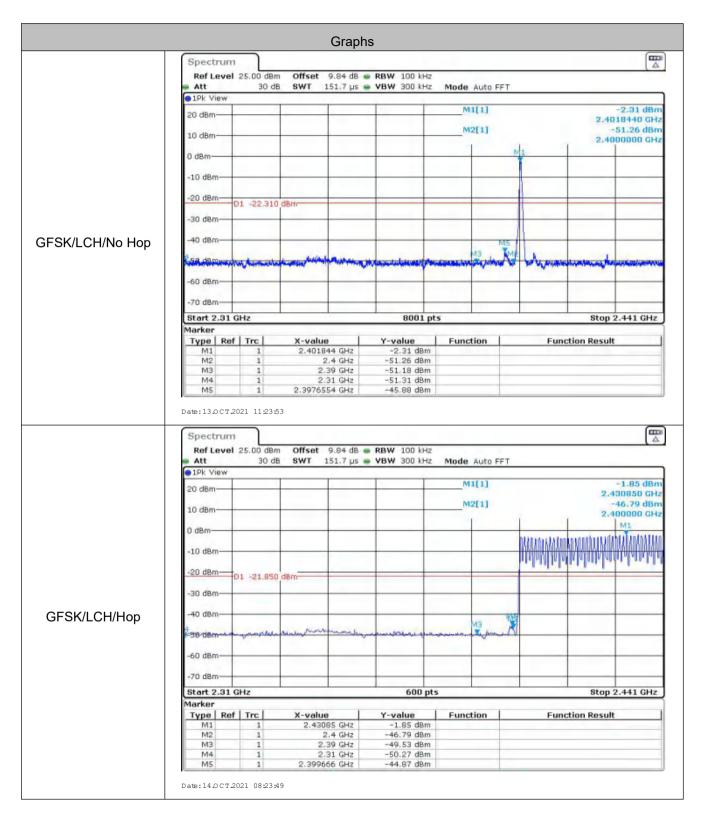
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10:2013
Test Setup:	Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: Offset=cable loss+ attenuation factor.
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional 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



Mode	Test Channel	Frequency [MHz]	Frequency Hopping	Emission Level [dBm]	Limit [dBm]	Result
		- /	Off	-51.260	-22.31	PASS
GFSK	LCH	2400	On	-46.790	-21.85	PASS
			Off	-51.850	-21.66	PASS
GFSK	НСН	2483.5	On	-51.430	-21.66	PASS
			Off	-50.890	-26.44	PASS
π/4DQPSK	LCH	2400	On	-49.790	-25.64	PASS
			Off	-52.140	-25.85	PASS
π/4DQPSK	НСН	2483.5	On	-51.090	-25.67	PASS
			Off	-50.900	-26.42	PASS
8DPSK	LCH	2400	On	-48.350	-25.95	PASS
			Off	-53.010	-25.78	PASS
8DPSK	НСН	2483.5	On	-51.660	-25.73	PASS



Test plot as follows:





	Spectrum								
	Ref Level	25.00 dBn 30 dB		RBW 100 kH		Auto FFT			1-
	• 1Pk View								
	20 dBm			-		M1[1]			1.66 dBm 7040 GHz
	10 dBm			_		M2[1]			1.85 dBm 0000 GHz
	0 dBm			M1					
				1					
	-10 dBm-			1					
	-20 dBm-0	1 -21.660	dBm			_			
	-30 dBm					-			
GFSK/HCH/No Hop	-40 dBm			1					
•				all.	X		МЗ		
	n92dBaartonpo	and this way to be	and Instrument	Mani harry	and the second s	nderty not store the	and the second	decusidan/matu	hand the hand the second
	-60 dBm-							-	
	-70 dBm								
	CF 2.4835 G	Hz		8001	pts			Span (50.0 MHz
	Marker Type Ref	Trc	X-value	Y-value	Fun	iction	Func	tion Result	-
	M1 M2	1	2.4801704 GHz 2.4835 GHz	-1.66 dE					_
	M3 M4	1	2.5 GHz 2.4842425 GHz	-50.16 de	sm				
	1414		2.4042425 GH2	-45.22 UB	STILL				
	Date:13.0CT.20)21 12:14:0	38						
	Spectrum								
	Ref Level	25.00 dBn 30 dB		RBW 100 kH		Auto FFT			
	• 1Pk View	50 0	5 GWT 7010 µ5 1	TON COOK					
	the second se					M1[1]		-	1.66 dBm
	20 dBm-			-				2.476	1500 GHz
	20 dBm					M2[1]		-5	1.43 dBm
	10 dBm			41			í – 1	-5	1.43 dBm
		NAAAA	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12 1 R.D A A				-5	1.43 dBm
	10 dBm	ANAA		12 MAAA				-5	1.43 dBm
	10 dBm	AAAA 01 -21.660	MANAMANA					-5	1.43 dBm
	10 dBm	1 -21.660	MANAMANA	MAN				-5	1.43 dBm
GESK/HCH/Hop	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	1 -21.660	MANAMANA					-5	1.43 dBm
GFSK/HCH/Hop	10 dBm 0 dBm -10 dBm -20 dBm p	₩₩₩ 11 -21.660	MANAMANA	MM		M2[1]	M3	-5	
GFSK/HCH/Hop	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm	1 -21.660	MANAMANA	MM Las		M2[1]	M3	-5	1.43 dBm
GFSK/HCH/Hop	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm	1 -21.660	MANAMANA	MM		M2[1]	M3	-5	1.43 dBm
GFSK/HCH/Hop	10 dBm 0 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 -21 660	MANAMANA	MM		M2[1]	M3	-5	1.43 dBm
GFSK/HCH/Hop	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm		MANAMANA	MM	2	M2[1]	M3	-5 2.483	1.43 dBm
GFSK/HCH/Hop	10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.4835 G Marker	GHz		600	pts	M2[1]	and a start	5 2.483	1.43 dBm 5000 GHz
GFSK/HCH/Hop	10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -50 dBm -70 dBm CF 2.4835 C Marker Type Ref M1	iHz	X-value 2.47615 GHz	600 Y-value -1.66 dB	pts	M2[1]	and a start	-5 2.483	1.43 dBm 5000 GHz
GFSK/HCH/Hop	10 dBm 0 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.44835 G Marker Type Ref	3Hz	Adam dam	600 Y-value	pts	M2[1]	and a start	5 2.483	1.43 dBm 5000 GHz



	Spectrun	n									
	Ref Leve	1 25.00 dBn 30 dB			RBW 100 kH		Auto I	FFT			
	01Pk View			out po	1011 000 111	- mour	Auto				
	20 dBm-		-			P	41[1]			2 40	-6.44 dBm 21720 GHz
						P	42[1]				50.89 dBm
	10 dBm						1			2.40	00000 GHz
	0 d8m					_	-	N	1		-
	-10 dBm			_			_	_	-		
	-20 dBm						_				
	-30 dBm	D1 -26.440	dBm		-		-	_			
π/4DQPSK/LCH/No	-30 UBIN-										_
	-40 dBm		MS	_	-	_		J	-		
Нор	SED. damenta	the text that here	- aller	-	A CONTRACTOR OF A CONTRACTOR OF	and and and	13	MP	1	and many the	department for all
	-60 dBm-						1.1	-	NAME OF ADDRESS		
	-70 dBm-										
	Start 2.31 Marker	GHz			8001	pts	_	_		Stop	2.441 GHz
	Type Re	f Trc	X-value	I.	Y-value	Fun	ction	1	Fund	tion Result	
	M1	1	2.40217		-6.44 dBn			_			
	M2 M3	1		4 GHz	-50.89 dBn -50.42 dBn			-			
	1913										
	M4	1	2.3	B1 GHz	-52.11 dBn			-			
	M4 M5 Date:14.0CT	1 1 2021 05:34 ±	2.3 2.345730	31 GHz 02 GHz	-47.12 dBn	n					
	M4 M5 Date:14.0CT Spectrum Ref Leve Att	1 2021 05:34:	2.3 2.345730	9.84 dB		2	e Auto I	FFT			(mail the second
	M4 M5 Date: 14.0CT Spectrum Ref Leve Att 1Pk View	1 2021 05:34:5	2.3 2.345730	9.84 dB	-47.12 dBn RBW 100 kH	z z Mode		FFT			-5.64 dBm
	M4 M5 Date:14.0CT Spectrum Ref Leve Att	1 2021 05:34:5	2.3 2.345730	9.84 dB	-47.12 dBn RBW 100 kH	z z Mode	41[1]	FFT			-5.64 dBm 37180 GHz
	M4 M5 Date: 14.0CT Spectrum Ref Leve Att 1Pk View	1 2021 05:34:5	2.3 2.345730	9.84 dB	-47.12 dBn RBW 100 kH	z z Mode		FFT		-	-5.64 dBn 37180 GHz 49.79 dBn
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	10 dBm				M2[1]		-1	52,14 dBm
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	-60 d8m					-		
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	M1	f Trc	X-value 2.479848 GHz	-5.85 dBm	Function	Func	tion Result	
	M2 M3	1	2.4835 GHz 2.5 GHz	-52.14 dBm -51.49 dBm				
	M4	1	2.5072975 GHz	-48.67 dBm				
	Date: 14.0CT	"		PBW 100 kHz				
	Spectrum	_	n Offset 9.80 dB	RBW 100 kHz VBW 300 kHz	Mode Auto FFT			
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8DPSK/LCH/Hop	M2 M3 M4 M5 Date: 14.0 CT. Spectrum Ref Level Att 10 dBm 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -40 dBm -70 dBm	1 1 2021 07:09:1 1 25.00 dBn 30 dB 30 dB 9 0 1 -25.950	2:: 2:34753: 15 0 Offset 3 SWT 1 dBm MS	9.84 dB	-50.96 dB -51.08 dB -45.65 dB RBW 100 kH VBW 300 kH	m m 4z 4z 4z 4z Mod	M1[1] M2[1]	Mg	Func	2.4 2.4 multilling	-5.95 dBm 28230 GHz 48.35 dBm 00000 GHz 11 4.10 4.10 4.10 4.10 4.10 4.10 4.10 4
8DPSK/LCH/Hop	M2 M3 M4 M5 Date: 14.0 CT. Spectrum Ref Level Att 10 dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -70 dBm Stort 2.31 Marker Type Ref	1 1 2021 07:09:1 1 25:00 dBm 30 df 25:00 dBm 30 df 1 25:950 	2:3 2:34753: 5 5 6 6 8 8 7 1 5 6 8 7 1 6 8 7 1 1 6 8 7 1 1 7 7 8 7 7 7 7 7 7 7 7 7 7 7 7 7	9,84 dB 9,84 dB 51.7 µs 23 GH2	-50.96 dB -51.08 dB -45.65 dB RBW 100 kk VBW 300 kk VBW 300 kk 	12 12 Mod	M1[1] M2[1]	Mg	Func	2.4 2.4 Multilling	-5.95 dBm 28230 GHz 48.35 dBm 00000 GHz 11 4.10 4.10 4.10 4.10 4.10 4.10 4.10 4
8DPSK/LCH/Hop	M2 M3 M4 M5 Date:14.0CT. Spectrum Ref Level Att ID dBm 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -60 dBm -60 dBm -70 dBm Start 2.31 Marker Type	1 1 2021 07:09:1 1 25.00 dBm 30 dB 30 dB 9 0 1 -25.950 	2:3 2:34753: 5 Offset SWT 1 GBM GBM MS MS MS MS MS MS MS X-value 2:428: 22:2	9.84 dB	-50.96 dB -51.08 dB -45.65 dB VBW 300 kF VBW 300 kF 	n m Hz Hz Mod Hore pts Fur m m	M1[1] M2[1]	Mg	Func	2.4 2.4 Multilling	-5.95 dBm 28230 GHz 48.35 dBm 00000 GHz 11 4



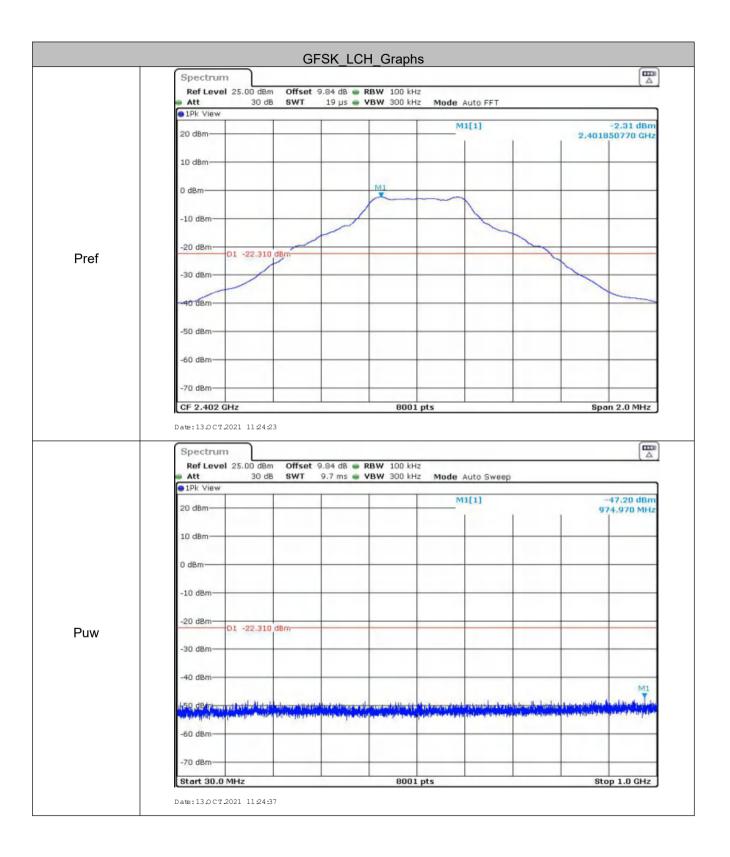
	Spectrum	1					(
	Ref Level	25.00 dBr		BW 100 kHz	the second		4
	Att 1Pk View	30 d	B SWT 75.8 µs	VBW 300 kHz	Mode Auto FFT		
	20 dBm-				M1[1]		-5.78 dBr 2.47984800 GH
	10 dBm				M2[1]		-53.01 dBr
					1	Í I	2,48350000 GH
	0 dBm			Mi			
	-10 dBm						
	-20 dBm						
	-30 dBm	01 -25.780	dBm				
DPSK/HCH/No Hop							
	-40 dBm			ALL NK		МЗ	
	wE0/demokativ	while where the	and the second	my Allen	and the second	and a service of the	and a second second second second
	-60 dBm						
	-70 dBm					-	
	CF 2.4835	GHz		8001 pt	s		Span 60.0 MHz
	Marker Type Ref	Trc	X-value	Y-value	Function	Funct	tion Result
	M1 M2	1	2.479848 GHz 2.4835 GHz	-5.78 dBm -53.01 dBm			
			2.4033 GH2				
	M3	1	2.5 GHz	-51.31 dBm			
	M3 M4 Date:14.0CT.2 Spectrum	021 07:16:	2.483875 GHz	-44.90 dBm			(III)
	M3 M4 Date:14.0CT.2	021 07:16:	2.483875 GHz		Mode Auto FFT		-5.73 dBi
	M3 M4 Date: 14.0CT.2 Spectrum Ref Level Att 1Pk View	1 021 07:16: 25.00 dBr	2.483875 GHz	-44.90 dBm			
	M3 M4 Date: 14.0 CT.2 Spectrum Ref Level Att 1Pk View 20 dBm	1 021 07:16: 25.00 dBr	2.483875 GHz	-44.90 dBm	M1[1]	1	-5.73 dBr 2.4741500 GH -51.66 dBr
	M3 M4 Date: 14.0CT.2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm	1 021 07:16: 25.00 dBr	2.483875 GHz	-44.90 dBm	M1[1]		-5.73 dBr 2.4741500 GH -51.66 dBr
	M3 M4 Date:14.0CT.2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm	1 021 07:16: 25.00 dBr	2.483875 GHz 09 m Offset 9.80 dB 8 SWT 75.8 µs	-44.90 dBm	M1[1]		-5.73 dBr 2.4741500 GH -51.66 dBr
	M3 M4 Date:14.0CT.2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm	1 021 07:16: 25.00 dBr	2.483875 GHz	-44.90 dBm	M1[1]		-5.73 dBr 2.4741500 GH -51.66 dBr
8DPSK/HCH/Hon	M3 M4 Date: 14.0 CT.2 Spectrum Ref Level Att 1 Pk View 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm	1 021 07:16: 25:00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1]		-5.73 dBr 2.4741500 GH -51.66 dBr
8DPSK/HCH/Hop	M3 M4 Date:14.0CT.2 Spectrum Ref Level Att 1Pk View 20 dBm 10 dBm 0 dBm -20 dBm	1 021 07:16: 25:00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1]		-5.73 dBi 2.4741500 GH -51.66 dBi 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date: 14.0 CT.2 Spectrum Ref Level Att 1 Pk View 20 dBm 10 dBm 0 dBm -20 dBm -30 dBm	1 021 07:16: 25:00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1]	M3	-5.73 dBr 2.4741500 GH -51.66 dBr 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date: 14.0CT.2 Spectrum Ref Level Att 10 dBm 10 dBm 10 dBm 20 dBm -20 dBm -30 dBm -40 dBm	1 021 07:16: 25:00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1]	M3	-5.73 dBi 2.4741500 GH -51.66 dBi 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date: 14.0 CT.2 Spectrum Ref Level Att 10 dBm 10 dBm 10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -50 dBm	1 021 07:16: 25:00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1]		-5.73 dBi 2.4741500 GH -51.66 dBi 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date: 14.0CT.2 Spectrum Ref Level Att 10 dBm 10 dBm 10 dBm 0 dBm -20 dBm -30 dBm -30 dBm -50 dBm -60 dBm	1 021 07:16: 25.00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1] M2[1]	M3	-5.73 dBi 2.4741500 GH -51.66 dBi 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date:14.0CT.2 Spectrum Ref Level Att 11 Pk View 20 dBm 10 dBm 0 dBm 10 dBm -20 dBm -20 dBm -30 dBm -30 dBm -60 dBm -50 dBm -60 dBm -70 dBm CF 2.4835 O	1 021 07:16; 25.00 der 30 d	2.483875 GHz	-44.90 dBm	M1[1] M2[1] 		-5.73 dBa 2.4741500 GH -51.66 dBa 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date: 14.0 CT.2 Spectrum Ref Level Att 11 Pk View 20 dBm 10 dBm 0 dBm 10 dBm 0 dBm 10 dBm -20 dBm -20 dBm -20 dBm -30 dBm -60 dBm -50 dBm -60 dBm -70 dBm CF 2.4835 C Marker M1	1 021 07:16: 25.00 dBr 30 d	2.483875 GHz	-44.90 dBm	M1[1] M2[1]		-5.73 dBi 2.4741500 GH -51.66 dBi 2.4835000 GH
8DPSK/HCH/Hop	M3 M4 Date:14.0CT.2 Spectrum Ref Level Att 11 Pk View 20 dBm 10 dBm 0 dBm 10 dBm 0 dBm -20 dBm -30 dBm -30 dBm -60 dBm -50 dBm -60 dBm -70 dBm CF 2.4835 C Marker Type	1 021 07:16; 25.00 dBr 30 d	2.483875 GHz 09 m Offset 9.80 dB B SWT 75.8 μs dB MM dB MM MI dB MM MI X-value	-44.90 dBm	M1[1] M2[1] 		-5.73 dBa 2.4741500 GH -51.66 dBa 2.4835000 GH



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
Limit:	Remark: Offset=cable loss+ attenuation factor. 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







●1Pk Viev	Y .			Z Mode Auto Swi		
20 dBm-	-			M1[1]		-3.09 (2.40160
				M2[1]		-43.64
10 dBm-	-					3.84130
0 dBm-	T					
-10 dBm-						_
-20 dBm-	D1 -22.310	dBro				
	-01 -22.310	ubin				
-30 dBm-						-
-40 dBm-						
-40 0611-			M2	the Jake		
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-60 dBm-						-
-70 dBm-						+
Start 1.0	GHz		800	pts	Sto	pp 12.0 G
Spectru Ref Lev	el 25.00 dBm	Offset 9.84	+ dB			
Spectru Ref Lev	el 25.00 dBm 30 dB	Offset 9.84		iz Iz Mode Auto Swe	sep	(
Spectru Ref Lev Att	el 25.00 dBm 30 dB	Offset 9.84				-44.84 d
Spectru Ref Lev	el 25.00 dBm 30 dB	Offset 9.84		z Mode Auto Swo		
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Spectru Ref Lev Att	el 25.00 dBm 30 dB	Offset 9.84		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm-	el 25.00 dBm 30 dB	Offset 9.84		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm-	el 25.00 dBm 30 dB	Offset 9.84		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm-	el 25.00 dBm 30 dB	Offset 9.84		z Mode Auto Swo		
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Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	el 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	rel 25.00 dBm 30 dB	Offset 9.84 SWT 130		z Mode Auto Swo		





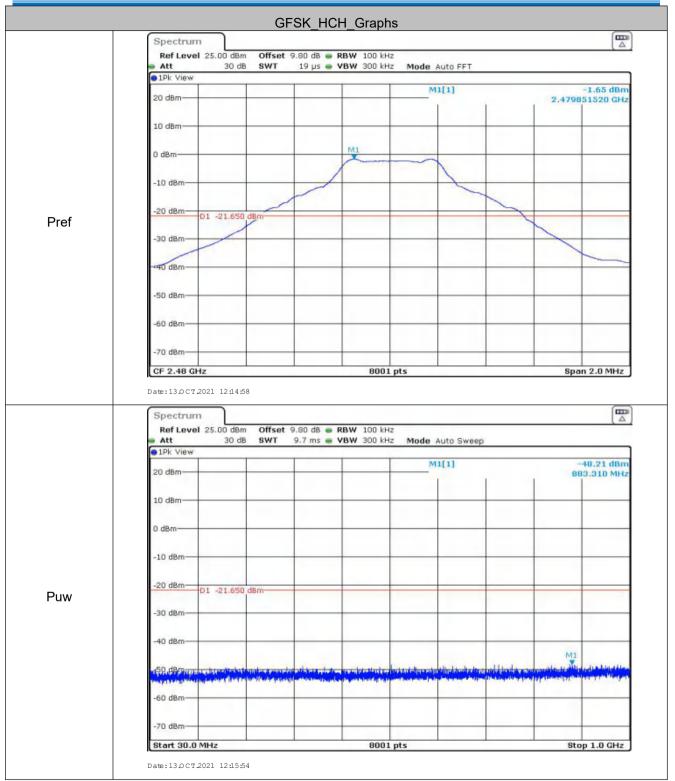
		GFSK_	MCH_Graphs		
	Spectrum Ref Level 25.0		8 👄 RBW 100 kHz		
	Att	30 dB SWT 19 µ	s 🖷 YBW 300 kHz	Mode Auto FFT	
	 1Pk View 		_	M1[1]	-1.85 dBm
	20 dBm-				2.440851270 GHz
	10 dBm				
	0 dBm		M1	~	
	-10 dBm				
					_
Pref	-20 dBm 01 -2	21.850 dBm			
FIEI					
	-30 dBm				
	-40 dBm				
	-40 dbm				
	-50 dBm				
	So dom				
	-60 dBm				
	-70 dBm-				
	CF 2.441 GHz		8001 pts		Span 2.0 MHz
	Date:13.0CT.2021	11:27:44			-
	Date:13.0CT.2021 Spectrum Ref Level 25.0 Att	00 dBm Offset 9.80 d	B ● RBW 100 kHz s ● VBW 300 kHz		
	Date: 13.0 CT.2021 Spectrum Ref Level 25.0	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	
	Date:13.0CT.2021 Spectrum Ref Level 25.0 Att	00 dBm Offset 9.80 d	8 - RBW 100 kHz		-
	Date: 13.0 CT.2021 Spectrum Ref Level 25.0 Att 1Pk View	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
	Date: 13.0 CT.2021 Spectrum Ref Level 25.0 Att 1Pk View	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
	Date: 13.0 CT.2021	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
	Date: 13.0 CT.2021 Spectrum Ref Level 25.0 Att DIPk View 20 dBm	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
	Date: 13.0 CT.2021	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
	Date: 13.0 CT.2021	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
	Date: 13.0 CT.2021	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
Puw	Date: 13.0 CT.2021 Spectrum Ref Level 25.0 Att ID dBm 0 dBm -10 dBm -20 dBm	00 dBm Offset 9.80 d	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
Puw	Date: 13.0 CT.2021	00 dBm Offset 9.80 d 30 dB SWT 9.7 m	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
Puw	Date: 13.0 CT.2021 Spectrum Ref Level 25.0 Att ID dBm 0 dBm -10 dBm -20 dBm	00 dBm Offset 9.80 d 30 dB SWT 9.7 m	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
Puw	Date: 13.0 CT.2021	00 dBm Offset 9.80 d 30 dB SWT 9.7 m	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm
Puw	Date: 13.0 CT.2021	00 dBm Offset 9.80 d 30 dB SWT 9.7 m	8 - RBW 100 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz
Puw	Date: 13.0 CT.2021	21.850 dBm	B RBW 100 kHz s VBW 300 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz
Puw	Date: 13.0 CT.2021	21.850 dBm	B RBW 100 kHz s VBW 300 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz
Puw	Date: 13.0 CT.2021	21.850 dBm	B RBW 100 kHz s VBW 300 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz
Puw	Date: 13.0 CT.2021	21.850 dBm	B RBW 100 kHz s VBW 300 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz
Puw	Date: 13.0 CT.2021	21.850 dBm	B RBW 100 kHz s VBW 300 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz
Puw	Date: 13.0 CT.2021	21.850 dBm	B RBW 100 kHz s VBW 300 kHz	Mode Auto Sweep	-47.65 dBm 931.440 MHz



Att 1Pk View	30 d	B SWT	110 ms 🖷 ۷	BW 300 kH	z Mode	Auto Sweep)		
20 dBm-					IV	11[1]			-2.44
20 abm-					N	12[1]			.44150
10 dBm-			_						.98263
0 dBm-	MI		-						
-10 dBm-									-
-20 dBm-	D1 -21.85	0 dBm		-			-		
-30 dBm-									
-40 dBm-	-				M2				-
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-60 dBm-			-			-			-
-70 dBm-									
Start 1.0	GHz			8001	pts			Stop	12.0 0
Spectru Ref Lev	el 25.00 dB	m Offset	9.80 dB 🕳 🖡						_
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Spectru Ref Lev Att	im vel 25.00 dB 30 d	m Offset			z Mode	Auto Sweep)		-44.16
Spectru Ref Lev Att	im vel 25.00 dB 30 d	m Offset			z Mode)		
Spectru Ref Lev Att 1Pk Viev 20 dBm—	im vel 25.00 dB 30 d	m Offset			z Mode				
Spectru Ref Lev Att	im vel 25.00 dB 30 d	m Offset			z Mode				
Spectru Ref Lev Att 1Pk Viev 20 dBm—	im vel 25.00 dB 30 d	m Offset			z Mode				
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm-	im vel 25.00 dB 30 d	m Offset			z Mode				-44.16
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm-	im vel 25.00 dB 30 d	m Offset			z Mode				
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- 0 dBm- -10 dBm-	im vel 25.00 dB 30 d	m Offset			z Mode				
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- 0 dBm-	im vel 25.00 dB 30 d	m Offset B SWT			z Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode				
Spectru Ref Lev Att 1Pk Viev 20 dBm- 10 dBm- 0 dBm- -10 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode				
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Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode				
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Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode			19	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode			19	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	vel 25.00 dB 30 d	m Offset B SWT			z Mode			19	









Att 1Pk View	30 dB	SWT	110 ms 🖷 V	BW 300 kHz	Mode A	uto Sweep			
20 dBm-					MD	L[1]			-2.34
20 abm-					Ms	2[1]			48000
10 dBm-									90838
0 dBm-	M1								<u> </u>
-10 dBm-						_			
-20 dBm-	D1 -21.650	dBm							
20 dam									
-30 dBm-						-			
-40 dBm-					880				
				and to show	I.L.		_		
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-60 dBm-	-								-
-70 dBm-									
Start 1.0	GHz			8001 p	ts			Stop	12.0 0
Spectru Ref Lev	el 25.00 dBm	Offset 9		BW 100 kHz	Mode 4	uto Sween			
Spectru	m el 25.00 dBm 30 dB	Offset 9			Mode A	uto Sweep			_
Spectru Ref Lev Att	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz		uto Sweep			44.52
Spectru Ref Lev	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev Att	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev Att 1Pk View 20 dBm-	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev Att 1Pk View 20 dBm-	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- 0 dBm-	m el 25.00 dBm 30 dB	Offset 9		BW 100 kHz					
Spectru Ref Lev 110 dBm- 10 dBm- 0 dBm-	m el 25.00 dBm 30 dB	Offset SWT		BW 100 kHz					
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	Offset SWT		BW 100 kHz					
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- 0 dBm-	m	Offset SWT		BW 100 kHz					
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT		BW 100 kHz	M				44.52
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	Offset SWT		BW 100 kHz	M				
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT		BW 100 kHz					
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT		BW 100 kHz	M				
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT		BW 100 kHz	M				
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT		BW 100 kHz	M				
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset SWT		BW 100 kHz	M				





			π/4D	QPSK_	LCH_Gra	aphs				
	Spectrur				PPUL ICO LI	-				
	Att	el 25.00 dBn 30 dB			RBW 100 kH		Auto FFT			
	1Pk View			_	_					
	20 dBm				-	M	1[1]			6.41 dBm 6770 GHz
	10 dBm			-						
	0.40-									
	0 dBm				M1					
	-10 dBm-		-		\sim	~	hanne	~		
Pref	-20 dBm-		1							
	-30 dBm-	D1 -26.410	dBm							
	-40 dBm-		-						-	200
	-50 dBm									
	-60 dBm-				_					
	-70 dBm-			-	-				-	
				-	-				0	2.0 MHz
	CF 2.402	GHz	24		8001	L pts			span	2.0 MH2
	Date: 14.0CT Spectrur Ref Leve	2.2021 05:35:2	n Offset		RBW 100 kH	z			span	
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Puw	Date: 14.0 CT Spectrur Ref Leva Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2.2021 05.352	dBm-	9.7 ms	RBW 100 k+	IZ IZ Mode			-4	7.06 dBm .390 MHz
Puw	Date: 14.0 CT Spectrur Ref Leva Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm -40 dBm	2.2021 05.352	dBm-	9.7 ms	RBW 100 k+	IZ IZ Mode	1[1]		-4	7.06 dBm .390 MHz
Puw	Date: 14.0 CT Spectrur Ref Leva Att 10 dBm 10 dBm -10 dBm -20 dBm -30 dBm -40 dBm	2.2021 05.352	dBm-	9.7 ms	RBW 100 k+	IZ IZ Mode	1[1]		-4	7.06 dBm .390 MHz
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	Spectrum Ref Level 25.00 dBm Offset 9.80 dB ● Ri ● Att 30 dB SWT 19 µs ● Vi	BW 100 kHz BW 300 kHz Mode Auto FFT	
	19 µs View	BW 300 KH2 MODE AUTO FFT	
	20 dBm	M1[1]	-5.95 dBm 2.441169730 GHz
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Pref	-20 dBm- D1 -25.950 dBm		
	-30 dBm		
	-40 dBm		
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	-70 dBm		
	CF 2.441 GHz	8001 pts	Span 2.0 MHz
	or title	0001 000	apan 2.0 MH2
	Date: 14.0 CT.2021 07:02:05 Spectrum Ref Level 25:00 dBm Offset 9:80 dB • Ri	BW 100 kHz	
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	Date: 14.0 CT.2021 07:02:05	BW 100 kHz BW 300 kHz Mode Auto Sweep	-46.96 dBm
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Puw	Date: 14.0CT.2021 07:02:05 Spectrum Ref Level 25:00 dBm Att 30 dB SWT 9.7 ms V 10 dBm -10 dBm -20 dBm -30 dBm M1 -50 dBm	BW 100 kHz BW 300 kHz Mode Auto Sweep M1[1]	-46.96 dBm 222,340 MHz
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20 dBm	M1[1]		_
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10 dBm	M2[1]		44150
		6.	85612
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-10 dBm			
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		PSK_HCH_Graphs	
		0 d8 • RBW 100 kHz	
	Att 30 dB SWT 1 IPk View	9 µs 🖶 VBW 300 kHz Mode Auto FFT	
	20 dBm	M1[1]	-5.76 dBm
	20 0611		2.480171480 GHz
	10 dBm		
	0 dBm	M1	
	-10 dBm		
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Pref	-30 dBm		
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	-50 dBm		
	-60 dBm		_
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	05.0.40.014		
	CF 2.48 GHz	8001 pts	Span 2.0 MHz
	Date: 14.0CT.2021 07:05:46		Span 2.0 MHz
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	Date: 14.0 CT 2021 07:05:46 Spectrum Ref Level 25.00 dBm Offset 9.8	0 dB ● RBW 100 kHz 7 ms ● VBW 300 kHz Mode Auto Sweep	
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	Date: 14.0 CT.2021 07:05:46 Spectrum Ref Level 25.00 dBm Offset 9.8 Att 30 dB SWT 9. 1Pk View	0 dB ● RBW 100 kHz 7 ms ● VBW 300 kHz Mode Auto Sweep	-47.79 dBm
	Date: 14.0 CT.2021 07:05:46 Spectrum Ref Level 25:00 dBm Offset 9:8 Att 30 dB SWT 9: 1Pk View 20 dBm	0 dB ● RBW 100 kHz 7 ms ● VBW 300 kHz Mode Auto Sweep	-47.79 dBm
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Puw	Date: 14.0 CT.2021 07:05:46	0 dB ● RBW 100 kHz 7 ms ● VBW 300 kHz Mode Auto Sweep	-47.79 dBm
Puw	Date: 14.0 CT.2021 07:05:46	0 dB ● RBW 100 kHz 7 ms ● VBW 300 kHz Mode Auto Sweep	-47.79 dBm 960.540 MHz
Puw	Date: 14.0 CT 2021 07:05:46	0 dB ● RBW 100 kHz 7 ms ● VBW 300 kHz Mode Auto Sweep	-47.79 dBm 960.540 MHz
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Att 30 dB SWT 110 ms VBW IPk View	300 kHz Mode Auto Sweep	
20 dBm-	M1[1]	-8.45 d 2.48000 (
	M2[1]	-44.22 d 6.11088
10 dBm		
0 dBm		
M1		
-10 dBm		
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Stort 1.0 GHz Date: 14.0 CT.2021 07:06:13 Spectrum Ref Level 25:00 dBm Offset 9:80 dB • RBW Att 30 dB SWT 130 ms • VBW IPk View 20 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm 10 dBm -20 dBm 01 -25.760 dBm 11 dBm -30 dBm 10 dBm 11 dBm 11 dBm	100 kHz 1300 kHz Mode Auto Sweep	-43,80 d





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	Spectru	vel 25.00 dBr	Offset	9.84 da 🕳 1	RBW 100 kH	47				
	Att	30 d			VBW 300 kH		Auto FFT			
	1Pk View	×			-	-				
	20 dBm-					M	1[1]		2.401	-6.37 dBm 847020 GHz
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	-10 dBm-			~~~~	1-	~				
	-10 0011		1	1				1		
	-20 dBm-	/	1			-				
Pref		D1 -26.370) dBm							_
	-30 dBm-	1								
		T								
	-40 dBm-						-			~
	-50 dBm-									
	-60 dBm-	-							-	
	-70 dBm-									
				_		1				
	CF 2.40 2	2 GHz T.2021 07:09:	45		800	1 pts			sp	an 2.0 MHz
	Date: 14.00 Spectru Ref Lev	T.2021 07:09:	n Offset		RBW 100 kt	42	Auto Cween		Sp.	E COMHZ
	Date: 14.00	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset			42	Auto Sweep		Sp	
	Date: 14.00 Spectru Ref Lev Att	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -	Auto Sweep	1		₩
	Date: 14.00 Spectru Ref Lev Att	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -		1		
	Date: 14.00 Spectru Ref Lev Att	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -				₩
	Date: 14.00 Spectru Ref Lev Att 1Pk View 20 dBm-	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -				₩
	Date: 14.00 Spectru Ref Lev Att 1Pk View 20 dBm-	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -				₩
	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- 0 dBm-	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -				₩
	Date: 14.00 Spectru Ref Lev Att 10 dBm-	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -				₩
	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- 0 dBm-	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kt	42 42 Mode -				₩
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm-	T.2021 07:09: rel 25.00 dBr 30 d	n Offset B SWT		RBW 100 kt	42 42 Mode -				₩
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm-	T.2021 07:09: IIII Vel 25.00 dBr 30 d	n Offset B SWT		RBW 100 kt	42 42 Mode -				₩
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:09: rel 25.00 dBr 30 d	n Offset B SWT		RBW 100 kt	42 42 Mode -				₩
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm-	T.2021 07:09: rel 25.00 dBr 30 d	n Offset B SWT		RBW 100 kt	42 42 Mode -				₩
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:09: rel 25.00 dBr 30 d V D1 -26.370	n Offset B SWT	9.7 ms • 1	RBW 100 kH	12 Mode	1[1]			₩
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:09: rel 25.00 dBr 30 d V D1 -26.370	m Offset B SWT	9.7 ms • 1	RBW 100 kH	12 Mode		M1	7	-47.79 dBm 35.890 MHz
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:09: rel 25.00 dBr 30 d V D1 -26.370	m Offset B SWT	9.7 ms	RBW 100 kH	iz Mode . Mode .		M1	7	-47.79 dBm 35.890 MHz
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- -40 dBm-	T.2021 07:09: rel 25.00 dBr 30 d V D1 -26.370	m Offset B SWT	9.7 ms	RBW 100 kH	iz Mode . Mode .		M1	7	-47.79 dBm 35.890 MHz
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- -40 dBm-	T.2021 07:09: rel 25.00 dBr 30 d V D1 -26.370	m Offset B SWT	9.7 ms	RBW 100 kH	iz Mode . Mode .		M1	7	-47.79 dBm 35.890 MHz



Att	el 25.00 dBr 30 d			BW 100 kHz BW 300 kHz		Auto Sweep	1		
1Pk View			1		M	1[1]			-8.47
20 dBm-	1				_				40160
					M	2[1]			44.09 97713
10 dBm-					_				
0 dBm-									
-10 dBm-	MI								
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discharge and the	The superior	and palled	and the second		Distant	A MARINA CARA	and a state of the state	an strength and	with all has
-60 dBm-						_	-		
-70 dBm-									
Start 1.0				8001					12.0 0
Date:14.0C	T.2021 07:10:	12							
Spectru		12							
Spectru Ref Lev	m el 25.00 dBr	n Offset		BW 100 kHz					
Spectru Ref Lev	m el 25.00 dBr 30 d	n Offset		BW 100 kHz /BW 300 kHz		Auto Sweep			
Spectru Ref Lev	m el 25.00 dBr 30 d	n Offset			Mode				43.90
Spectru Ref Lev	m el 25.00 dBr 30 d	n Offset			Mode	Auto Sweep			43.90 d 92980
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm— 10 dBm—	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm— 10 dBm—	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm-	m el 25.00 dBr 30 d	n Offset			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m el 25.00 dBr 30 d	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	m	m Offset B SWT			Mode				
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- -60 dBm-	m del 25.00 dBr 30 d	m Offset B SWT						19.	





	8DPSK_MCH_Graphs	
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 19 µs ♥ VBW 300 kHz Mode Ait	
	19 ps View	uto FF1
		[1] -5.95 dBm 2.440846020 GHz
	10 dBm-	
	0 dBm	
	-10 dBm	
Pref	-20 dBm D1 -25.950 dBm	
	-30 dBm	
	-40 dBm	
	-50 dBm	
	-60 dBm	
	-70 dBm	
	CF 2.441 GHz 8001 pts	Span 2.0 MHz
		· · · · · · · · · · · · · · · · · · ·
	Date: 14.0 CT.2021 07:13:01 Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz	
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Ait	
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz	uto Sweep
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms YBW 300 kHz Mode Att PIPk View M1 M1 <td>uto Sweep [1] -47.58 dBm</td>	uto Sweep [1] -47.58 dBm
	Spectrum Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Art 1Pk View 20 dBm	uto Sweep [1] -47.58 dBm
	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Additional and	uto Sweep [1] -47.58 dBm
	Spectrum Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Alt 1Pk View 20 dBm M1	uto Sweep [1] -47.58 dBm
Рим	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode And 10 dBm 0 dBm	uto Sweep [1] -47.58 dBm
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Additional and	uto Sweep [1] -47.58 dBm
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode And PIPk View 20 dBm 10 dBm M1 M1 M1 M1 10 dBm 0 dBm	uto Sweep [1] -47.58 dBm
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode And IPk View Image: Second secon	LI -47.58 dBm 942.110 MHz
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode And IPk View Image: Second secon	LI -47.58 dBm 942.110 MHz
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode And PIPk View 20 dBm 10 dBm M1 M1 M1 M1 10 dBm 0 dBm	LI -47.58 dBm 942.110 MHz
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Mode Ai Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Ai ID dBm ID dBm ID dBm MI MI MI 10 dBm ID dBm	LI -47.58 dBm 942.110 MHz
Puw	Spectrum Ref Level 25.00 dBm Offset 9.80 dB RBW 100 kHz Mode Ai Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Ai ID dBm ID dBm <t< td=""><td>LI -47.58 dBm 942.110 MHz</td></t<>	LI -47.58 dBm 942.110 MHz



0 1Pk View	30 dB	SWT	110 ms 💻 🕻	VBW 300 kH	2 Mode	Auto Swee	ip.		-
20 dBm-					M	1[1]			-9.58
20 0011					M	2[1]			44150
10 dBm-								5.	86200
and a									
0 dBm-	-		-						<u> </u>
	M1								
-10 dBm-							-		
-20 dBm-									
-30 dBm-	D1 -25.950	dBm							
-50 0011									
-40 dBm-				1012					
				M2	and also				
50 dam	and the last	dilaut sighter	Alexandra Landing	and an address of the state	and the second second	-	and the second second	Handal Handler	AL ALL W
tre de decembre	And in the Party of Party	CANE OF C			a form	- Contraction of the	the second second second	a post the second second	Louis and
-60 dBm-			-				-		
-70 dBm-							-		
Start 1.0	GHz			8001	pts			Stop	12.0 G
Spectru Ref Lev	el 25.00 dBm	Offset	9.80 dB 🕳 F	RBW 100 kH	2				
Spectru Ref Lev Att	el 25.00 dBm 30 dB	Offset	9.80 dB 👄 F 130 ms 👄 V	RBW 100 kH VBW 300 kH	z z Mode	Auto Swee	p		
Spectru Ref Lev Att	el 25.00 dBm 30 dB	Offset	9.80 dB 👄 F 130 ms 🖷 V	RBW 100 kH VBW 300 kH	z Mode	Auto Swee	p		
Spectru Ref Lev Att	el 25.00 dBm 30 dB	Offset	9.80 dB 🕳 F 130 ms 🖷 V	RBW 100 kH VBW 300 kH	z Mode		ap		
Spectru Ref Lev Att 1Pk Viev 20 dBm-	el 25.00 dBm 30 dB	Offset	9.80 d8 👄 🖡 130 ms 🖷 🕅	RBW 100 kH VBW 300 kH	z Mode		P		
Spectru Ref Lev Att	el 25.00 dBm 30 dB	Offset	9.80 dB 👄 F 130 ms 🖷 V	RBW 100 kH	z Mode		р 		
Spectru Ref Lev Att 1Pk Viev 20 dBm—	el 25.00 dBm 30 dB	Offset	9.80 d8 👄 🖡 130 ms 🖷 🕅	XBW 100 kH YBW 300 kH	z Mode				
Spectru Ref Lev Att 1Pk Viev 20 dBm—	el 25.00 dBm 30 dB	Offset	9.80 dB 👄 🖡 130 ms 🖷 🕅	RBW 100 kH VBW 300 kH	z Mode				
Spectru Ref Lev Att 1Pk Viev 20 dBm-	el 25.00 dBm 30 dB	Offset	9.80 dB 👄 🖡 130 ms 🖷 🕅	RBW 100 kH VBW 300 kH	z Mode		р 		
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	el 25.00 dBm 30 dB	Offset	9.80 d8 👄 🖡 130 ms 🖷 🕅	RBW 100 kH VBW 300 kH	z Mode		p		
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm-	el 25.00 dBm 30 dB	Offset	9.80 d8 👄 🖡	RBW 100 kH VBW 300 kH	z Mode		p		
Spectru Ref Lev 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm-	el 25.00 dBm 30 dB	SWT	9.80 dB	88W 100 kH VBW 300 kH	z Mode				
Spectru Ref Lev 110 dBm- 10 dBm- 0 dBm- -10 dBm-	m	SWT	9.80 dB 👄 F 130 ms 🖷 V	XBW 100 kH	z Mode				
Spectru Ref Lev • Att • 1Pk View 20 dBm	m	SWT	9.80 dB	RBW 100 kH	z Mode	1(1)			
Spectru Ref Lev 1Pk Viev 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	SWT	9.80 dB • F 130 ms • V	RBW 100 kH	z Mode				44.15 d
Spectru Ref Lev • Att • 1Pk View 20 dBm	m	SWT	9.80 dB	VBW 300 kH	z Mode	1(1)			
Spectru Ref Lev • Att • 1Pk View 20 dBm	m	SWT	9.80 d8	VBW 300 kH	z Mode	1(1)			
Spectru Ref Lev • Att • 1Pk View 20 dBm	m	SWT	9.80 d8 • F	VBW 300 kH	z Mode	1(1)			
Spectru Ref Lev • Att • 1Pk Viev 20 dBm	m	SWT	9.80 d8 • F 130 ms • V	VBW 300 kH	z Mode	1(1)			
Spectru Ref Lev • Att • 1Pk Viev 20 dBm	m	SWT	9.80 dB	VBW 300 kH	z Mode	1(1)			





			80	PSK_HC	CH_Graph	าร				
	Spectru									
	e Att	el 25.00 dBr 30 d			RBW 100 kH: VBW 300 kH:		uto FFT			
	1Pk View	× .								
	20 dBm-					M	1[1]		2 400	-5.77 dBm
								1	2.400.	11150 GHZ
	10 dBm-									
	0 dBm	-		-						
					-	MI				
	-10 dBm-	-	~					~		
Pref	-20 dBm-	1							1	
	-30 dBm-	D1 -25.770) dBm					-	1	
	-50 0511								1	
	-40 dBm-									1
	-50 dBm-									
	-60 dBm-			-						
	-70 dBm-									
									0	n 2.0 MHz
	CF 2.48		30		8001	pts			spa	III 2.0 MH2
		т.2021 07:16:	39		8001	pts			spo	
	Date:14.00 Spectru Ref Lev	T.2021 07:16:	n Offset		RBW 100 kH:	z	uto Sween		spo	
	Date: 14.00	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset			z	auto Sweep		Spo	
	Date: 14.00 Spectru Ref Lev Att	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A	Auto Sweep			(▲) -48,17 dBm
	Date: 14.0 C Spectru Ref Lev Att	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				
	Date: 14.00 Spectru Ref Lev Att	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
	Date: 14.00 Spectru Ref Lev Att 1Pk View 20 dBm-	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
	Date: 14.00 Spectru Ref Lev Att 1Pk View 20 dBm-	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
	Date: 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm-	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
	Date: 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm-	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
	Date: 14.0C Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm-	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
Puw	Date: 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- 0 dBm-	T.2021 07:16: rel 25:00 dBr 30 d	n Offset B SWT		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
Puw	Date: 14.0C Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm-	T.2021 07:16: IIII Vel 25.00 dBr 30 d	n Offset B SWT		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
Puw	Date: 14.0C Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm-	T.2021 07:16: rel 25:00 dBr 30 d	n Offset B SWT		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
Puw	Date: 14.0C Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm-	T.2021 07:16: rel 25:00 dBr 30 d	n Offset B SWT		RBW 100 kH:	z z Mode A				(▲) -48,17 dBm
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:16: m vel 25.00 dBr 30 d v 01 -25.770	n Offset B SWT	9.7 ms • 1	RBW 100 kH	z Mode A	1[1]			(▲) -48,17 dBm
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:16: rel 25:00 dBr 30 d	n Offset B SWT	9.7 ms • 1	RBW 100 kH	z Mode A			3	-48.17 dBm 36,910 MHz
Puw	Date: 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	T.2021 07:16: m vel 25.00 dBr 30 d v 01 -25.770	n Offset B SWT	9.7 ms • 1	RBW 100 kH	z Mode A	1[1]		3	-48.17 dBm 36,910 MHz
Puw	Date : 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	T.2021 07:16: m vel 25.00 dBr 30 d v 01 -25.770	n Offset B SWT	9.7 ms • 1	RBW 100 kH	z Mode A			3	-48.17 dBm 36,910 MHz
Puw	Date: 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- 0 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- -40 dBm-	T.2021 07:16: m vel 25.00 dBr 30 d v 01 -25.770	n Offset B SWT	9.7 ms • 1	RBW 100 kH	z Mode A			3	-48.17 dBm 36,910 MHz
Puw	Date: 14.00 Spectru Ref Lev Att 10 dBm- 10 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	T.2021 07:16: m vel 25.00 dBr 30 d v 01 -25.770	n Offset B SWT	9.7 ms • 1	RBW 100 kH	z Mode A			3	-48.17 dBm 36,910 MHz



Report No.: CQASZ20210901593E-01

1Pk View						
20 dBm-				M1[1]		-10
				M2[1]		-4:
10 dBm-						6.9
0 dBm						
o dom						
-10 dBm-	M1					
-10 000						
00 10-						
-20 dBm-						
	D1 -25.770	dBm				
-30 dBm-						
10.10						
-40 dBm-				M2		
No. of the		and a landstand	inder a stand discussion of the local	NI of the		
-50 dBm-	re r Mint de la cont	The state of the state of the	the property lines when a line and a property of	the second second second		Toron of Court States
and the second second	a set and the			A. MILL	and the second	
-60 dBm-						
-70 dBm-						
Start 1.0	CHT		800	nte		Stop 1
Spectru Ref Lev	el 25.00 dBm	Offset 9.8	30 dB = RBW 100 kH		ween	
Spectru	m el 25.00 dBm 30 dB	Offset 9.8	30 dB e RBW 100 kH 10 ms e VBW 300 kH		weep	
Spectru Ref Lev Att	m el 25.00 dBm 30 dB	Offset 9.8			weep	-4
Spectru Ref Lev Att	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	-4- 16.8-
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm— 10 dBm—	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm—	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- 0 dBm-	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm— 10 dBm—	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- 0 dBm-	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev 1Pk View 20 dBm- 10 dBm- 0 dBm-	m el 25.00 dBm 30 dB	Offset 9.8		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m el 25.00 dBm 30 dB	Offset 9.6 SWT 13		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- 0 dBm- -10 dBm-	m	Offset 9.6 SWT 13		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	Offset 9.6 SWT 13		z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm-	m	Offset 9.6 SWT 13	0 ms	z Mode Auto S	weep	
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset 9.6 SWT 13		z Mode Auto S		16.8
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset 9.6 SWT 13	0 ms	z Mode Auto S		16.8
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset 9.6 SWT 13	0 ms	z Mode Auto S		16.8
Spectru Ref Lev Att 1Pk View 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm-	m	Offset 9.6 SWT 13	0 ms	z Mode Auto S		16.8
Spectru Ref Lev Att 10 kView 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	m	Offset 9.6 SWT 13	0 ms	z Mode Auto S		16.8
Spectru Ref Lev Att 10 kView 20 dBm- 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm-	m	Offset 9.6 SWT 13	0 ms	z Mode Auto S		16.8
Spectru Ref Lev Att 10 k View 20 dBm	m	Offset 9.6 SWT 13	MI	z Mode Auto S		16.8

Remark:

Pre test 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.



5.10 Other requirements Frequency Hopping Spread Spectrum System

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(1), (h) requirement:						
The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.							
Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.							
The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.							
Compliance for section 15.	247(a)(1)						
 stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized with nine ones. Number of shift register stages: 9 Length of pseudo-random sequence: 2⁹ -1 = 511 bits Longest sequence of zeros: 8 (non-inverted signal) 							
	·····						
Linear Feedback S	hift Register for Generation of the PRBS sequence						
An example of Pseudorando	m Frequency Hopping Sequence as follow: 7 64 8 73 16 75 1 10 10 10 10 10 10 10 10 10 10 10 10 10 1						
Each frequency used equally on the average by each transmitter.							
According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals.							
Compliance for section 15.247(g)							
pseudorandom hopping freq	re Specification, the Bluetooth system transmits the packet with the uency with a continuous data and the short burst transmission from the ansmitted under the frequency hopping system with the pseudorandom						



Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.

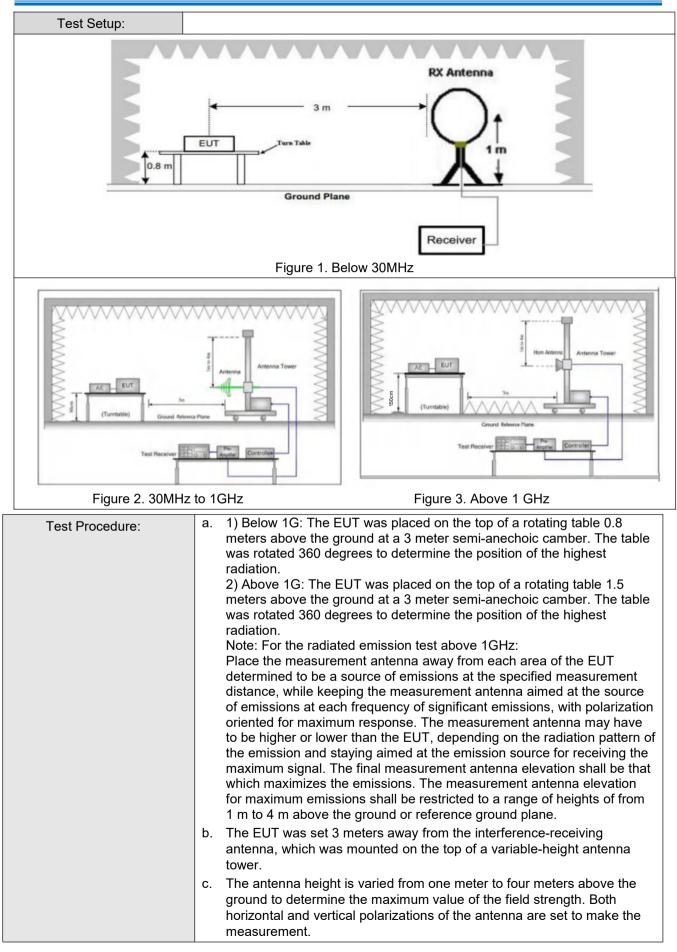


5.11 Radiated Spurious Emission & Restricted bands

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency		Detector	RBW	VBW	Remark		
	0.009MHz-0.090MHz		Peak	10kHz	z 30kHz	Peak		
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz	Average		
	0.090MHz-0.110MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	0.110MHz-0.490MH	z	Peak	10kHz	z 30kHz	Peak		
	0.110MHz-0.490MH	z	Average	10kHz	z 30kHz	Average		
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak		
	30MHz-1GHz		Peak	100 kH	lz 300kHz	Peak		
	Above 1GHz		Peak	1MHz	: 3MHz	Peak		
			Peak	1MHz	: 10Hz	Average		
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measureme distance (m		
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300		
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30		
	1.705MHz-30MHz		30	-	-	30		
	30MHz-88MHz		100	40.0	Quasi-peak	x 3		
	88MHz-216MHz		150	43.5	Quasi-peak	3		
	216MHz-960MHz	216MHz-960MHz 200		46.0	Quasi-peak	3		
	960MHz-1GHz	960MHz-1GHz 500		54.0	Quasi-peak	k 3		
	Above 1GHz 500		54.0	Average	3			
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio free emissions is 20dB above the maximum permitted average emiss applicable to the equipment under test. This peak limit applies to peak emission level radiated by the device.							





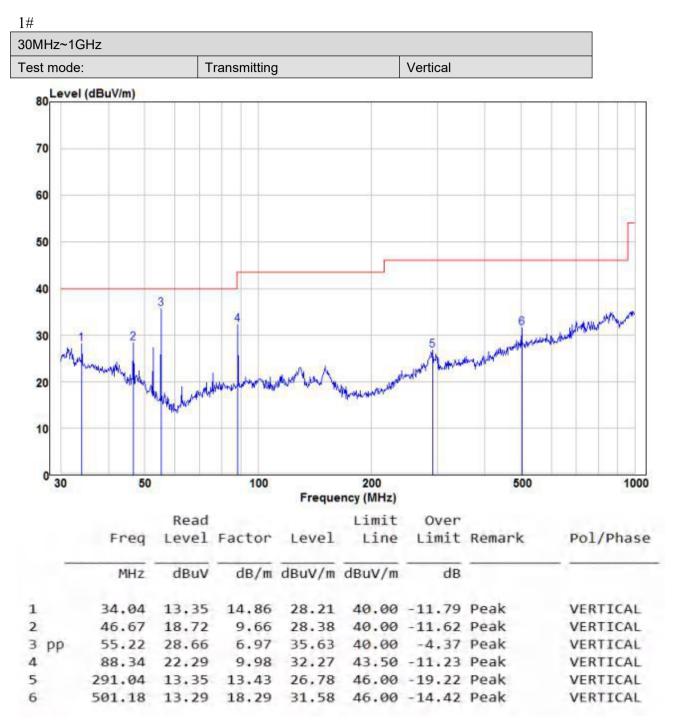




	 d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. i. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Non-hopping transmitting mode with all kind of modulation and all kind of data type Transmitting mode, Charging mode.
Final Test Mode:	Through Pre-scan, find the DH5 of data type and GFSK modulation is the worst case. Pretest the EUT at Transmitting mode and Charging mode, found the Transmitting mode which it is worse case For below 1GHz part, through pre-scan, the worst case is the lowest channel. Only the worst case is recorded in the report.
Test Results:	Pass



5.11.1 Radiated Emission below 1GHz



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

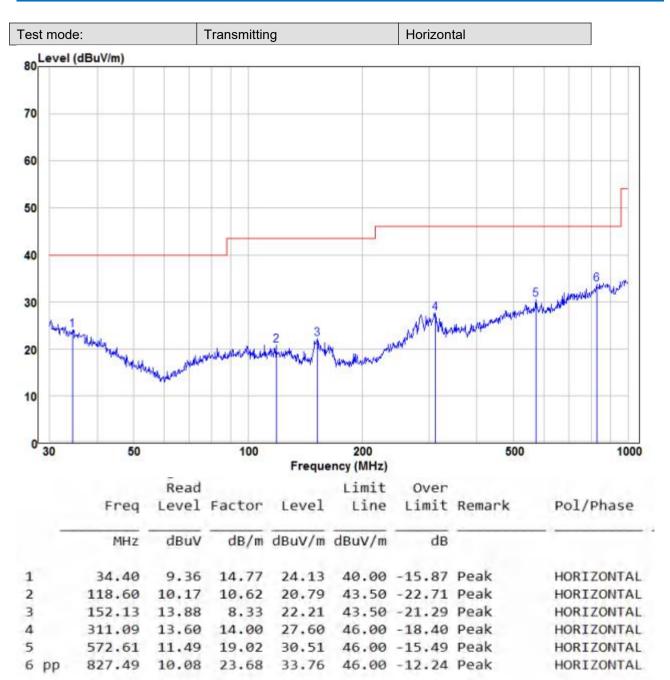
Factor= Antenna Factor + Cable Factor – Preamplifier Factor,

Level = Read Level + Factor,

Over Limit=Level-Limit Line.



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Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Factor= Antenna Factor + Cable Factor - Preamplifier Factor,

Level = Read Level + Factor,

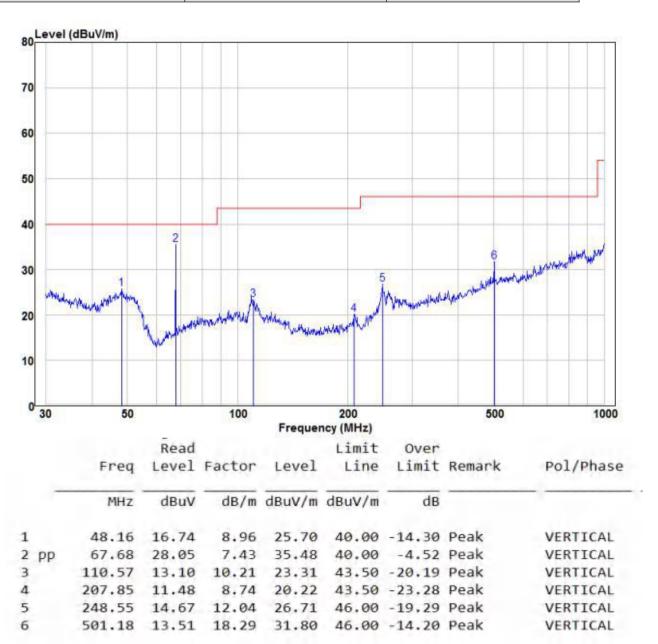
Over Limit=Level-Limit Line.



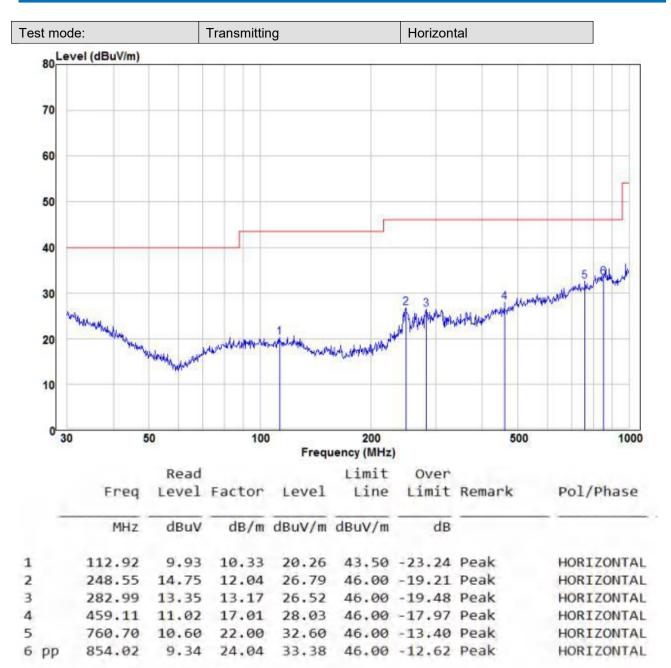
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$\Delta \pi$							
30MHz~1GHz							
Test mode:	Transmitting	Vertical					









5.11.2 Transmitter Emission above 1GHz

Worse case mode:		GFSK(DH5)		Test channel:		Lowest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2390	53.81	-9.2	44.61	74	-29.39	Peak	н
2400	54.66	-9.39	45.27	74	-28.73	Peak	Н
4804	53.26	-4.33	48.93	74	-25.07	Peak	Н
7206	50.60	1.01	51.61	74	-22.39	Peak	Н
2390	54.73	-9.2	45.53	74	-28.47	Peak	v
2400	56.78	-9.39	47.39	74	-26.61	Peak	V
4804	54.31	-4.33	49.98	74	-24.02	Peak	V
7206	48.86	1.01	49.87	74	-24.13	Peak	V

Worse case mode:		GFSK(DH5)		Test channel:		Middle	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
4882	51.20	-4.11	47.09	74	-26.91	peak	Н
7323	50.77	1.51	52.28	74	-21.72	peak	Н
4882	54.21	-4.11	50.10	74	-23.90	peak	V
7323	50.76	1.51	52.27	74	-21.73	peak	V

Worse case mode:		GFSK(DH5)		Test channel:		Highest	
Frequency	Meter Reading	Factor	Emission Level	Limits	Over	Detector Type	Ant. Pol.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)		H/V
2483.5	55.15	-9.29	45.86	74	-28.14	Peak	н
4960	52.79	-4.04	48.75	74	-25.25	Peak	Н
7440	49.71	1.57	51.28	74	-22.72	Peak	Н
2483.5	53.62	-9.29	44.33	74	-29.67	Peak	v
4960	49.41	-4.04	45.37	74	-28.63	Peak	V
7440	50.05	1.57	51.62	74	-22.38	Peak	V

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

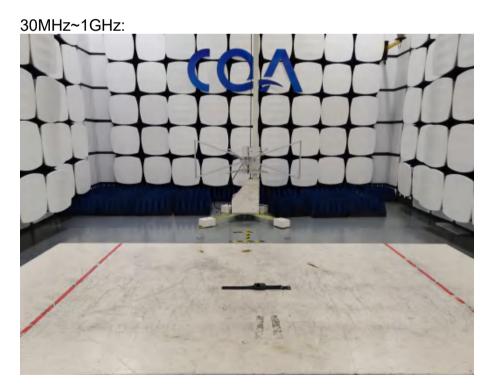
2) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.



6 Photographs - EUT Test Setup

6.1 Radiated Emission







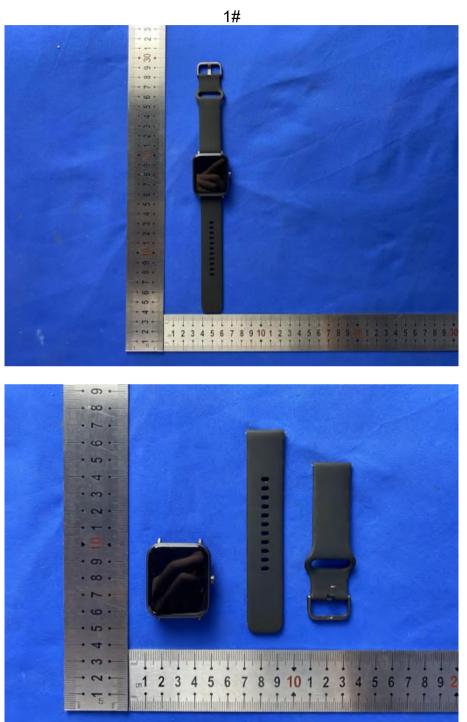


6.2 Conducted Emission

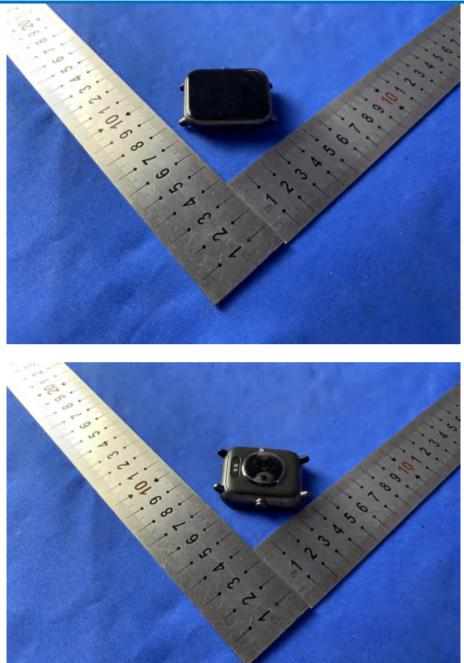




7 Photographs - EUT Constructional Details







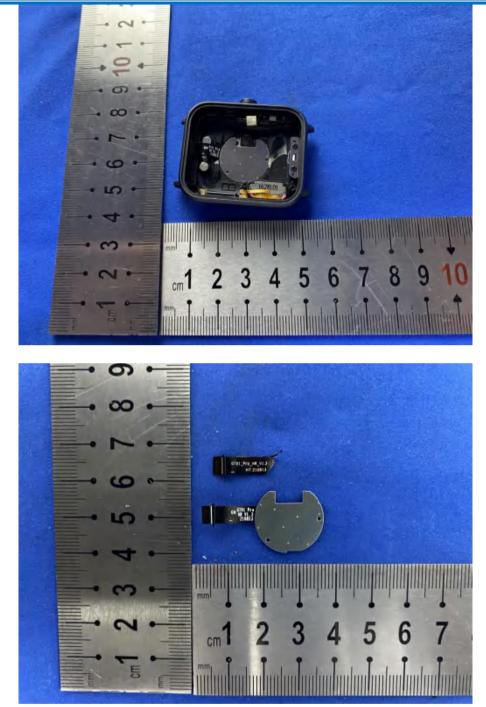




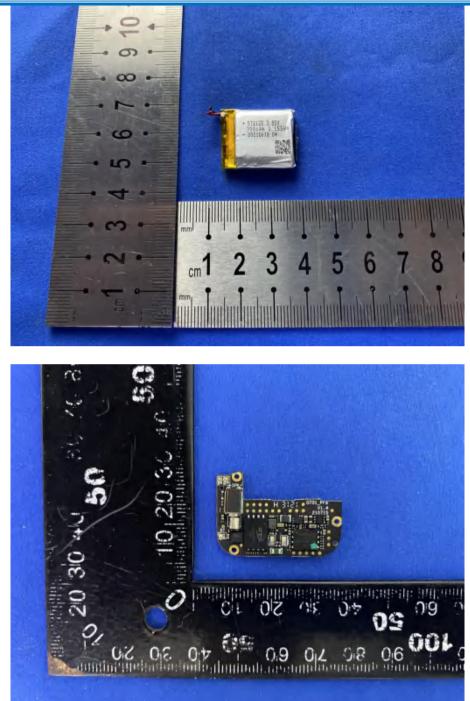






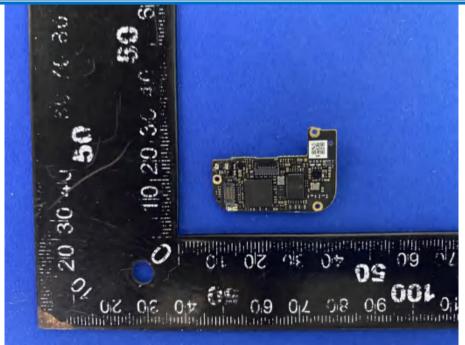










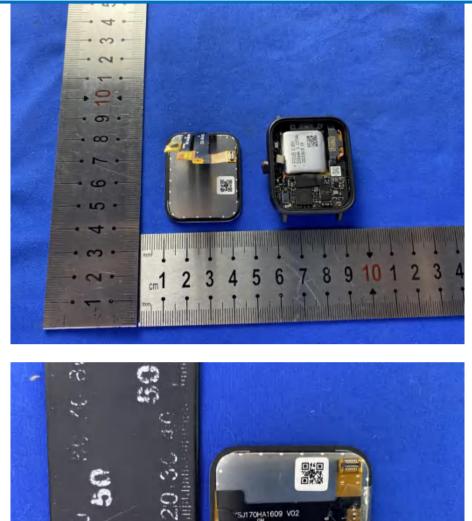




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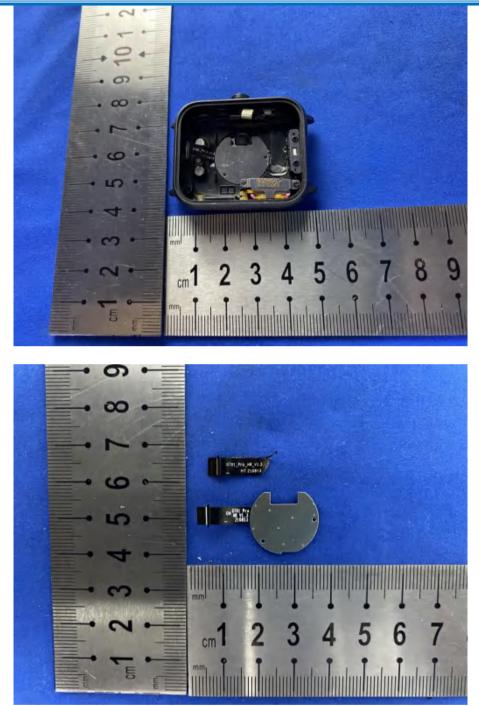
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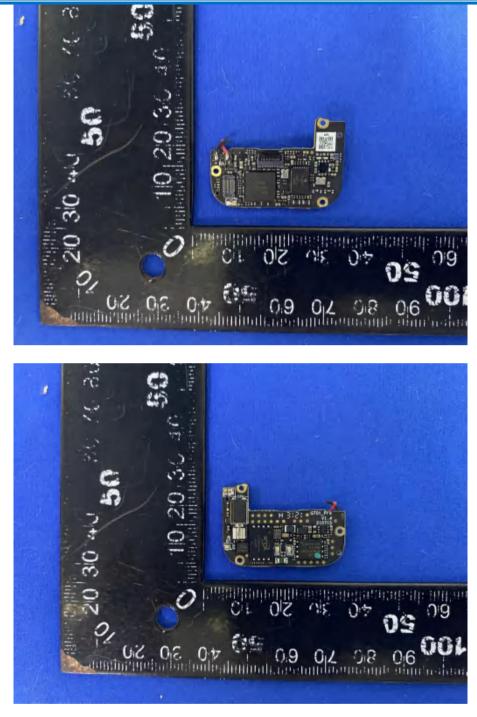
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