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# FCC Test Report

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Report No.: AGC08188200601FE03

**FCC ID** : 2AMNQ-T19  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : TWS Earphones  
**BRAND NAME** : UiiSii  
**MODEL NAME** : Tuddrom T19  
**APPLICANT** : Dongguan UiiSii Electronics Co.,Ltd  
**DATE OF ISSUE** : Jul. 20, 2020  
**STANDARD(S)** : FCC Part 15.247  
**REPORT VERSION** : V1.0

## Attestation of Global Compliance (Shenzhen) Co., Ltd

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### REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 20, 2020	Valid	Initial Release

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## TABLE OF CONTENTS

<b>1. VERIFICATION OF CONFORMITY .....</b>	<b>5</b>
<b>2. GENERAL INFORMATION.....</b>	<b>6</b>
2.1. PRODUCT DESCRIPTION .....	6
2.2. TABLE OF CARRIER FREQUENCIES .....	6
2.3. RECEIVER INPUT BANDWIDTH .....	7
2.4. EXAMPLE OF A HOPPING SEQUENCY IN DATA MODE.....	7
2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR.....	7
2.6. RELATED SUBMITTAL(S) / GRANT (S) .....	8
2.7. TEST METHODOLOGY .....	8
2.8. SPECIAL ACCESSORIES .....	8
2.9. EQUIPMENT MODIFICATIONS.....	8
2.10. ANTENNA REQUIREMENT .....	8
<b>3. MEASUREMENT UNCERTAINTY.....</b>	<b>9</b>
<b>4. DESCRIPTION OF TEST MODES.....</b>	<b>10</b>
<b>5. SYSTEM TEST CONFIGURATION .....</b>	<b>11</b>
5.1. CONFIGURATION OF EUT SYSTEM.....	11
5.2 EQUIPMENT USED IN TESTED SYSTEM.....	11
5.3. SUMMARY OF TEST RESULTS.....	11
<b>6. TEST FACILITY .....</b>	<b>12</b>
<b>7. PEAK OUTPUT POWER .....</b>	<b>13</b>
7.1. MEASUREMENT PROCEDURE .....	13
7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	13
7.3. LIMITS AND MEASUREMENT RESULT.....	14
<b>8. 20DB BANDWIDTH.....</b>	<b>26</b>
8.1. MEASUREMENT PROCEDURE .....	26
8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	26
8.3. LIMITS AND MEASUREMENT RESULTS .....	27
<b>9. CONDUCTED SPURIOUS EMISSION .....</b>	<b>33</b>
9.1. MEASUREMENT PROCEDURE .....	33
9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION) .....	33
9.3. MEASUREMENT EQUIPMENT USED .....	33
9.4. LIMITS AND MEASUREMENT RESULT.....	33
<b>10. RADIATED EMISSION.....</b>	<b>46</b>
10.1. MEASUREMENT PROCEDURE .....	46
10.2. TEST SETUP .....	48

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10.3. LIMITS AND MEASUREMENT RESULT ..... 49

10.4. TEST RESULT ..... 49

**11. NUMBER OF HOPPING FREQUENCY ..... 59**

11.1. MEASUREMENT PROCEDURE ..... 59

11.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION)..... 59

11.3. MEASUREMENT EQUIPMENT USED ..... 59

11.4. LIMITS AND MEASUREMENT RESULT ..... 59

**12. TIME OF OCCUPANCY (DWELL TIME) ..... 60**

12.1. MEASUREMENT PROCEDURE ..... 60

12.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) ..... 60

12.3. MEASUREMENT EQUIPMENT USED ..... 60

12.4. LIMITS AND MEASUREMENT RESULT ..... 60

**13. FREQUENCY SEPARATION ..... 64**

13.1. MEASUREMENT PROCEDURE ..... 64

13.2. TEST SETUP (BLOCK DIAGRAM OF CONFIGURATION) ..... 64

13.3. MEASUREMENT EQUIPMENT USED ..... 64

13.4. LIMITS AND MEASUREMENT RESULT ..... 64

**14. FCC LINE CONDUCTED EMISSION TEST ..... 65**

14.1. LIMITS OF LINE CONDUCTED EMISSION TEST ..... 65

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST ..... 65

14.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST ..... 66

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST ..... 66

14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST ..... 67

**APPENDIX A: PHOTOGRAPHS OF TEST SETUP ..... 69**

**APPENDIX B: PHOTOGRAPHS OF EUT ..... 71**

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### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	Dongguan UiiSii Electronics Co.,Ltd
<b>Address</b>	No.8, Hengxing Road, Hengkeng industrial Park, Liaobu Town, Dongguan City, Guangdong Province, China
<b>Manufacturer</b>	Dongguan UiiSii Electronics Co.,Ltd
<b>Address</b>	No.8, Hengxing Road, Hengkeng industrial Park, Liaobu Town, Dongguan City, Guangdong Province, China
<b>Factory</b>	Dongguan UiiSii Electronics Co.,Ltd
<b>Address</b>	No.8, Hengxing Road, Hengkeng industrial Park, Liaobu Town, Dongguan City, Guangdong Province, China
<b>Product Designation</b>	TWS Earphones
<b>Brand Name</b>	UiiSii
<b>Test Model</b>	Tuddrom T19
<b>Date of test</b>	Jul. 03, 2020 to Jul. 14, 2020
<b>Deviation</b>	No any deviation from the test method
<b>Condition of Test Sample</b>	Normal
<b>Test Result</b>	Pass
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC PART 15.247.

Prepared By   
 \_\_\_\_\_  
 Thea Huang  
 Project Engineer  
 Jul. 14, 2020

Reviewed By   
 \_\_\_\_\_  
 Max Zhang  
 Reviewer  
 Jul. 20, 2020

Approved By   
 \_\_\_\_\_  
 Forrest Lei  
 Authorized Officer  
 Jul. 20, 2020

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## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

The EUT is designed as “TWS Earphones”. It is designed by way of utilizing the GFSK , Pi/4 DQPSK and 8DPSK technology to achieve the system operation.

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	6.389dBm(Max)
<b>Bluetooth Version</b>	V5.0
<b>Modulation</b>	BR <input checked="" type="checkbox"/> GFSK, EDR <input checked="" type="checkbox"/> π /4-DQPSK, <input checked="" type="checkbox"/> 8DPSK BLE <input type="checkbox"/> GFSK 1Mbps <input type="checkbox"/> GFSK 2Mbps
<b>Number of channels</b>	79
<b>Hardware Version</b>	V1.2
<b>Software Version</b>	V0.1.4
<b>Antenna Designation</b>	FPC Antenna(Comply with requirements of the FCC part 15.203)
<b>Antenna Gain</b>	-0.2dBi
<b>Power Supply</b>	DC 3.7V by battery

**Note:** 1.The EUT doesn't support BLE.

2.The EUT comprises left and right channel headsets, both are the same in SCH but different in the PC B Layout. The RF output power of each headset had been tested and recorded in the report. For the other test items, the right headset had been tested and recorded in this report as the worst case because of the higher power.

### 2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency
2402~2480MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

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### 2.3. RECEIVER INPUT BANDWIDTH

The input bandwidth of the receiver is 1.3MHz. In every connection one Bluetooth device is the master and the other one is slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master. Additionally the type of connection (e.g. single or multislotted packet) is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.

Repeating of a packet has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case. That means, a repeated packet will not be sent on the same frequency, it is sent on the next frequency of the hopping sequence.

### 2.4. EXAMPLE OF A HOPPING SEQUENCE IN DATA MODE

Example of a 79 hopping sequence in data mode:

40,21,44,23,42,53,46,55,48,33,52,35,50,65,54,67  
56,37,60,39,58,69,62,71,64,25,68,27,66,57,70,59  
72,29,76,31,74,61,78,63,01,41,05,43,03,73,07,75  
09,45,13,47,11,77,15,00,64,49,66,53,68,02,70,06  
01, 51, 03, 55, 05, 04

### 2.5. EQUALLY AVERAGE USE OF FREQUENCIES AND BEHAVIOUR

The generation of the hopping sequence in connection mode depends essentially on two input values:

1. LAP/UAP of the master of the connection.
2. Internal master clock

The LAP (lower address part) are the 24 LSB's of the 48 BD\_ADDRESS. The BD\_ADDRESS is an unambiguous number of every Bluetooth unit. The UAP (upper address part) are the 24 MSB's of the 48 BD\_ADDRESS.

The internal clock of a Bluetooth unit is derived from a free running clock which is never adjusted and is never turned off. For synchronization with other units only offsets are used. It has no relation to the time of the day. Its resolution is at least half the RX/TX slot length of 312.5µs. The clock has a cycle of about one day (23h30). In most cases it is implemented as a 28-bit counter. For the deriving of the hopping sequence the entire LAP (24 bits), 4 LSB's (4 bits) (Input 1) and the 27 MSB's of the clock (Input 2) are used. With these input values different mathematical procedures (permutations, additions, XOR-operations) are performed to generate the sequence. This will be done at the beginning of every new transmission.

Regarding short transmissions the Bluetooth system has the following behavior:

The first connection between the two devices is established, a hopping sequence was generated. For transmitting the wanted data the complete hopping sequence was not used. The connection ended.

The second connection will be established. A new hopping sequence is generated. Due to the fact the Bluetooth clock has a different value, because the period between the two transmissions is longer (and it cannot be shorter) than the minimum resolution of the clock (312.5µs). The hopping sequence will always differ from the first one.



## 2.6. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AMNQ-T19** filing to comply with the FCC PART 15.247 requirements.

## 2.7. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

## 2.8. SPECIAL ACCESSORIES

Refer to section 5.2.

## 2.9. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

## 2.10. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95%.

- Uncertainty of Conducted Emission,  $U_c = \pm 3.1$  dB
- Uncertainty of Radiated Emission below 1GHz,  $U_c = \pm 4.0$  dB
- Uncertainty of Radiated Emission above 1GHz,  $U_c = \pm 4.8$  dB
- Uncertainty of total RF power, conducted,  $U_c = \pm 0.8$ dB
- Uncertainty of spurious emissions, conducted,  $U_c = \pm 2.7$ dB
- Uncertainty of Occupied Channel Bandwidth:  $U_c = \pm 2$  %
- Uncertainty of Dwell Time:  $U_c = \pm 2$  %
- Uncertainty of Frequency:  $U_c = \pm 2$  %

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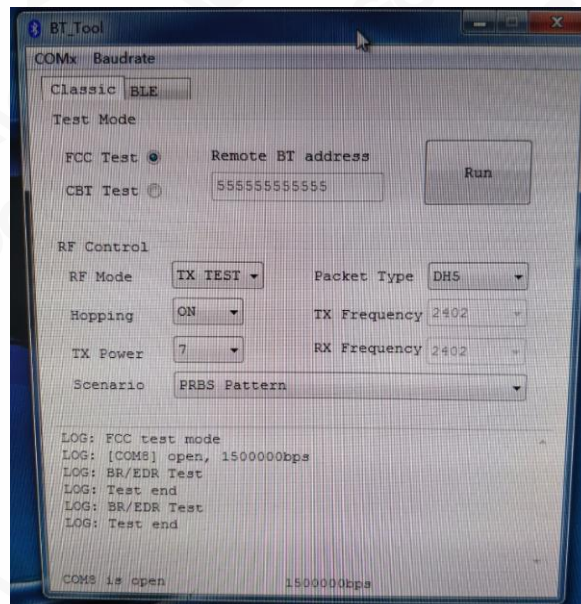
#### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	Hopping mode GFSK
11	Hopping mode $\pi/4$ -DQPSK
12	Hopping mode 8DPSK

**Note:**

1. Only the result of the worst case was recorded in the report, if no other cases.
2. For Radiated Emission, 3axis were chosen for testing for each applicable mode.
3. For Conducted Test method, a temporary antenna connector is provided by the manufacture.

#### Software Setting



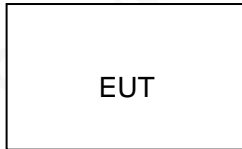
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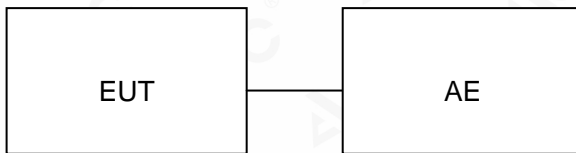
## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Radiated Emission Configure :



Conducted Emission Configure :



Note: During conduction and radiation tests, the battery is in full charge.

### 5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	TWS Earphones	Tuddrom T19	2AMNQ-T19	EUT
2	Control Box	N/A	USB-TTL	AE

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
15.247 (b)(1)	Peak Output Power	Compliant
15.247 (a)(1)	20 dB Bandwidth	Compliant
15.247 (d)	Conducted Spurious Emission	Compliant
15.209	Radiated Emission	Compliant
15.247 (a)(1)(iii)	Number of Hopping Frequency	Compliant
15.247 (a)(1)(iii)	Time of Occupancy	Compliant
15.247 (a)(1)	Frequency Separation	Compliant
15.207	Conducted Emission	Compliant

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## 6. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

### TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	10096	May 15, 2020	May 14, 2022
LISN	R&S	ESH2-Z5	100086	Aug. 26, 2019	Aug. 25, 2020
Test software	R&S	ES-K1(Ver.V1.71)	N/A	N/A	N/A

### TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	May 15, 2020	May 14, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
2.4GHz Fliter	EM Electronics	2400-2500MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 09, 2019	Sep. 08, 2020
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep. 21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Oct. 25, 2019	Oct. 26, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC (Ver RA-03A)	N/A	N/A	N/A

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## 7. PEAK OUTPUT POWER

### 7.1. MEASUREMENT PROCEDURE

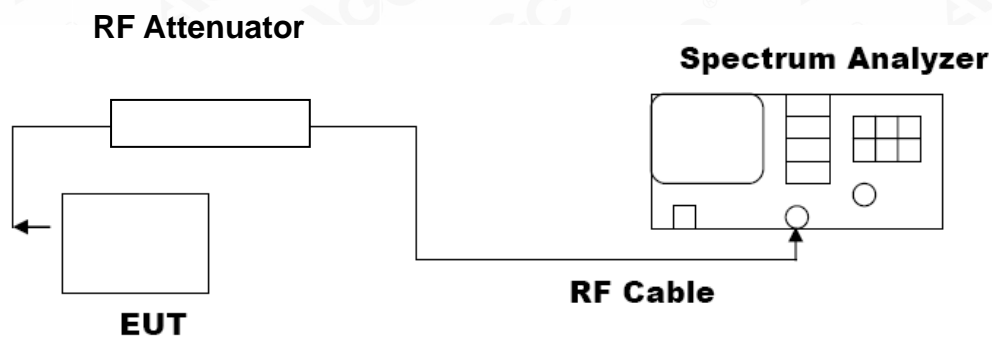
For peak power test:

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
3. RBW > 20 dB bandwidth of the emission being measured.
4. VBW  $\geq$  RBW.
5. Sweep: Auto.
6. Detector function: Peak.
7. Trace: Max hold.

Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power, after any corrections for external attenuators and cables.

### 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

#### PEAK POWER TEST SETUP



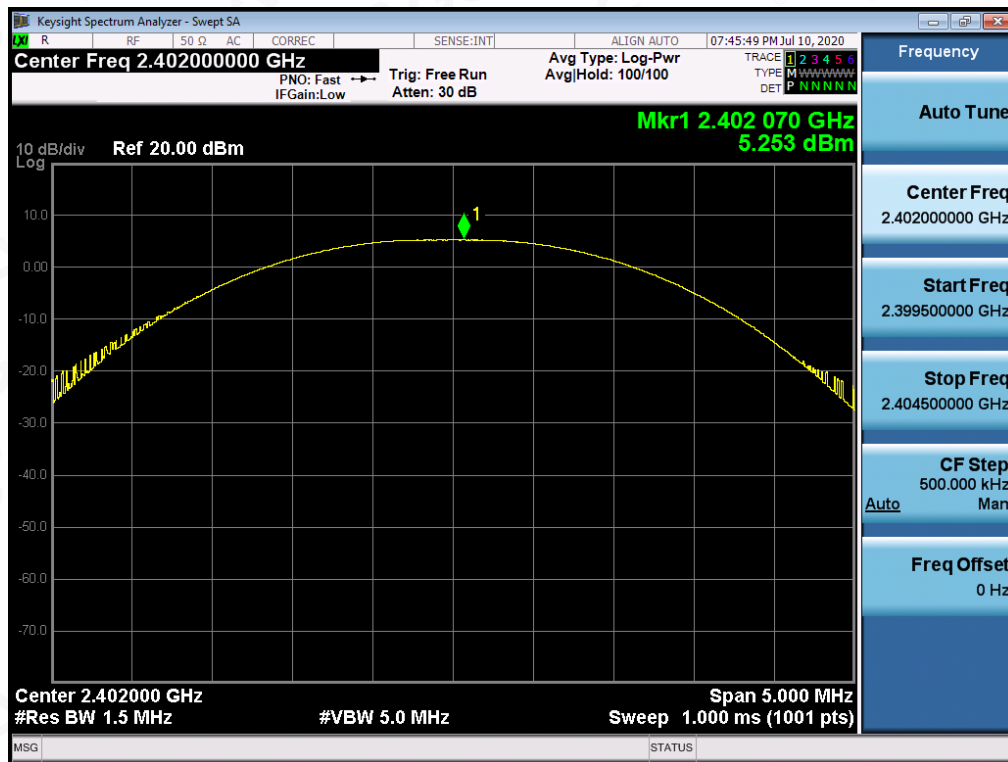
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### 7.3. LIMITS AND MEASUREMENT RESULT

Right:

PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	5.253	30	Pass
2.441	4.656	30	Pass
2.480	3.645	30	Pass

CH0

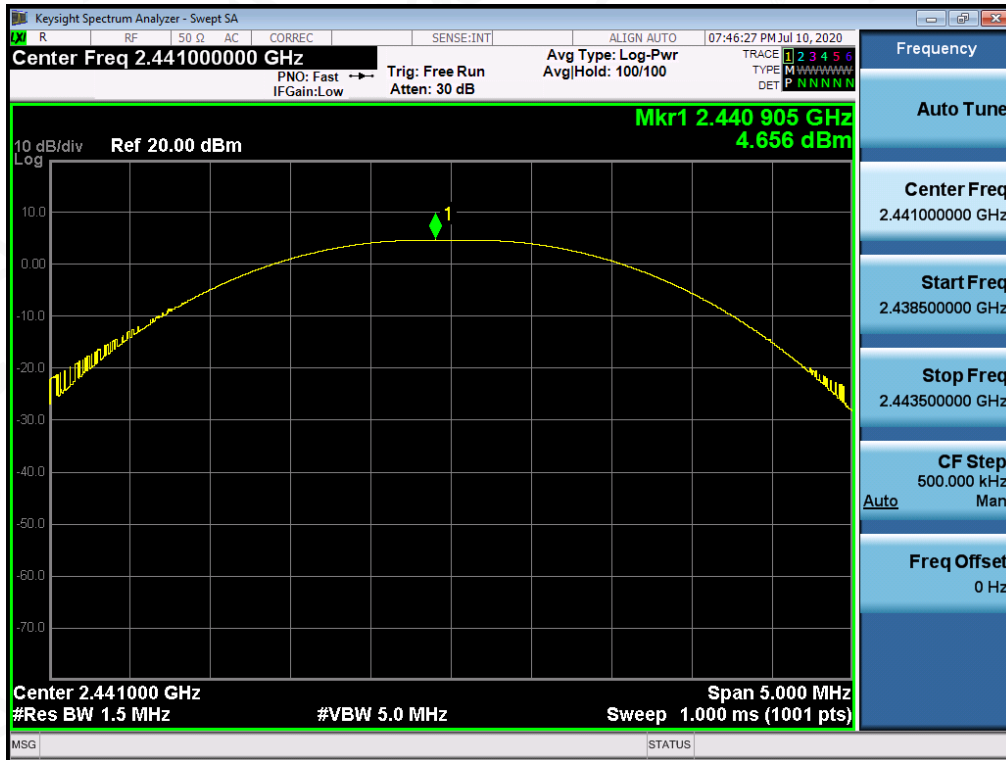


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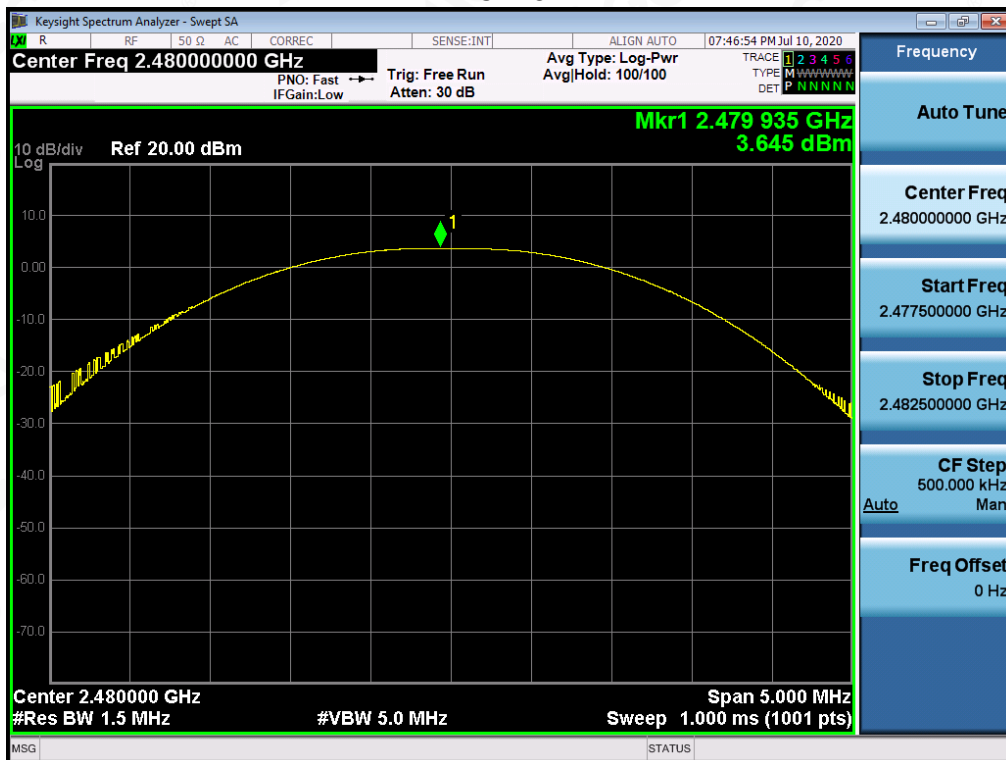
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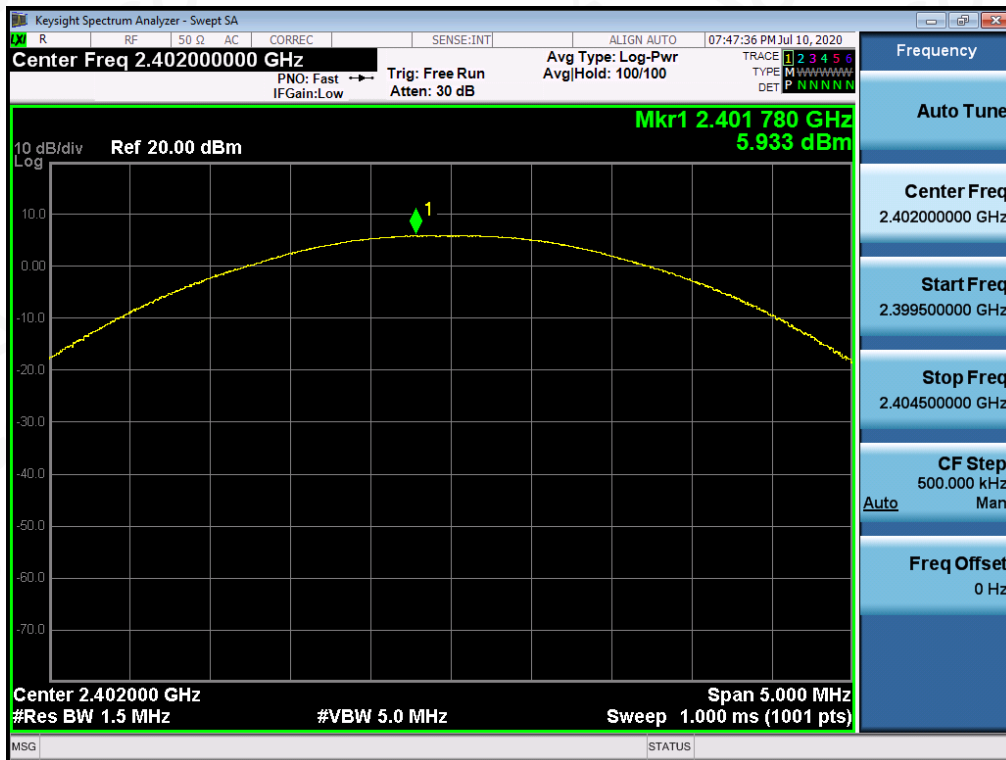
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR $\Pi$ /4-DQPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	5.933	21	Pass
2.441	5.267	21	Pass
2.480	4.237	21	Pass

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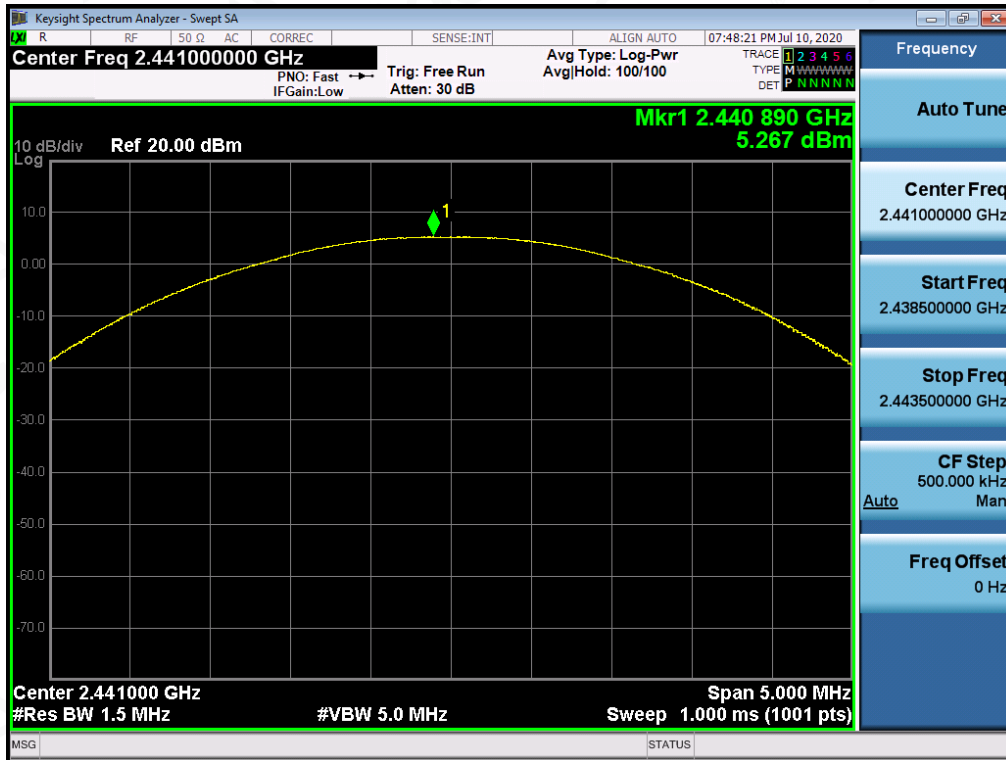
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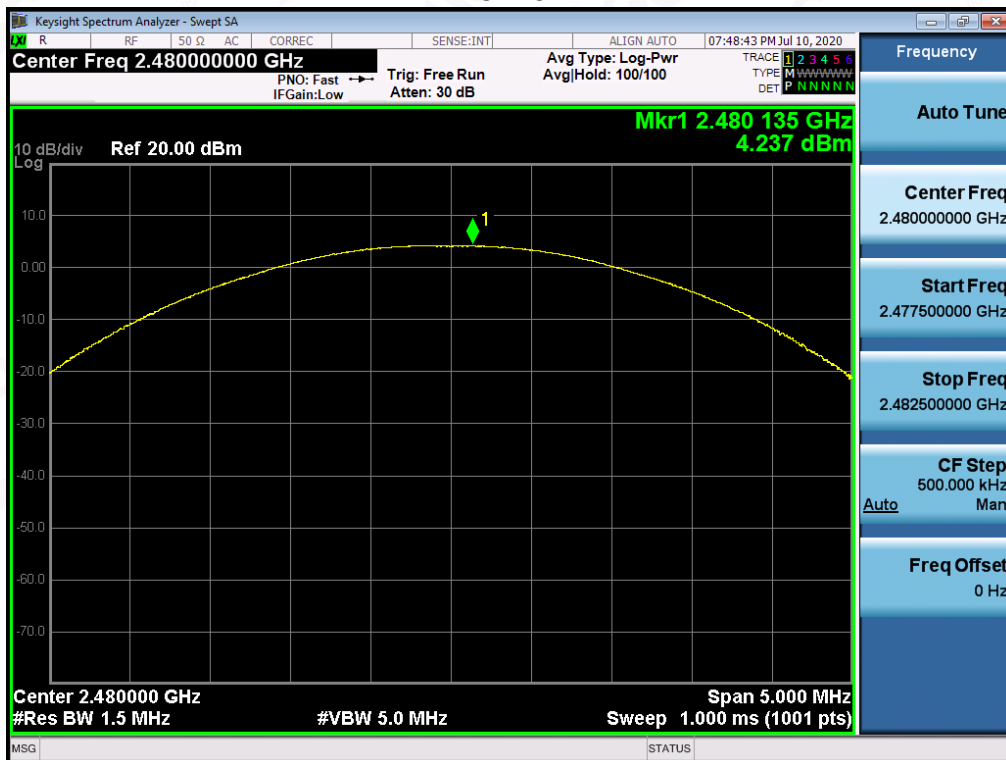




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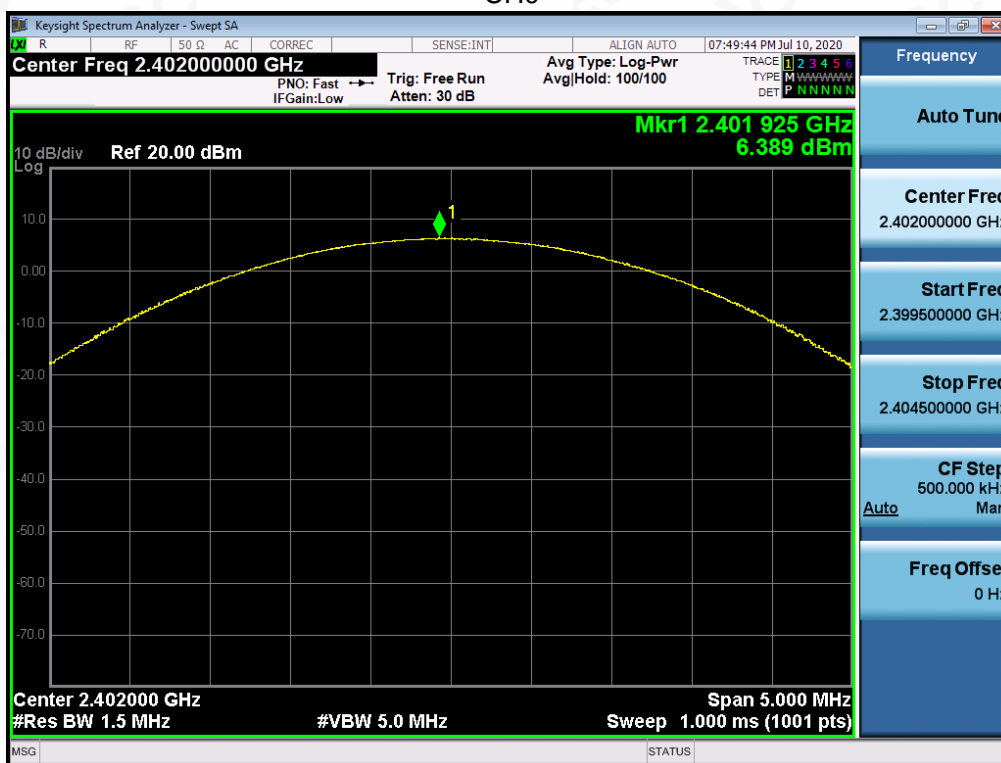
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	6.389	21	Pass
2.441	5.719	21	Pass
2.480	4.652	21	Pass

CH0

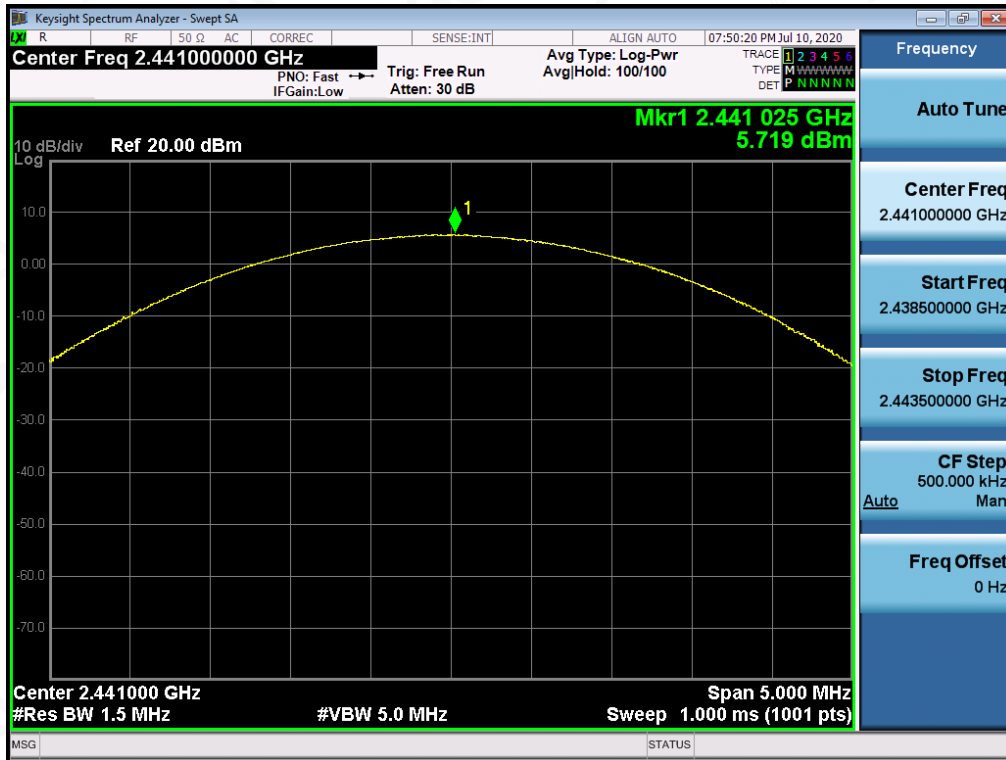


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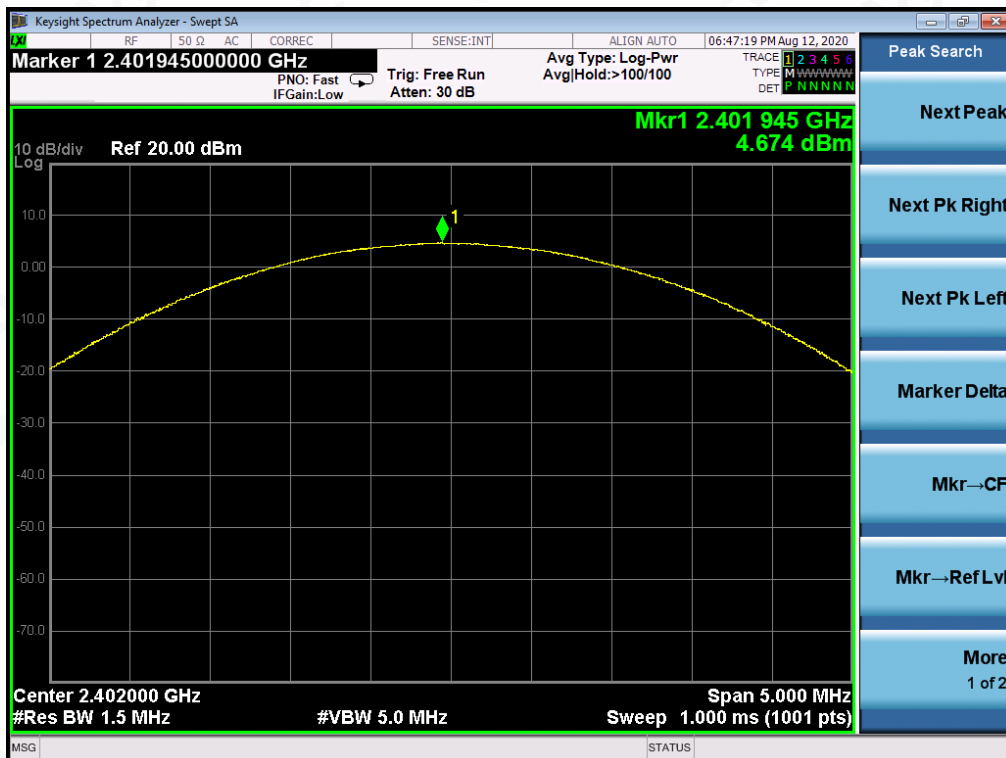
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR GFSK MOUDULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.674	30	Pass
2.441	2.271	30	Pass
2.480	1.757	30	Pass

CH0

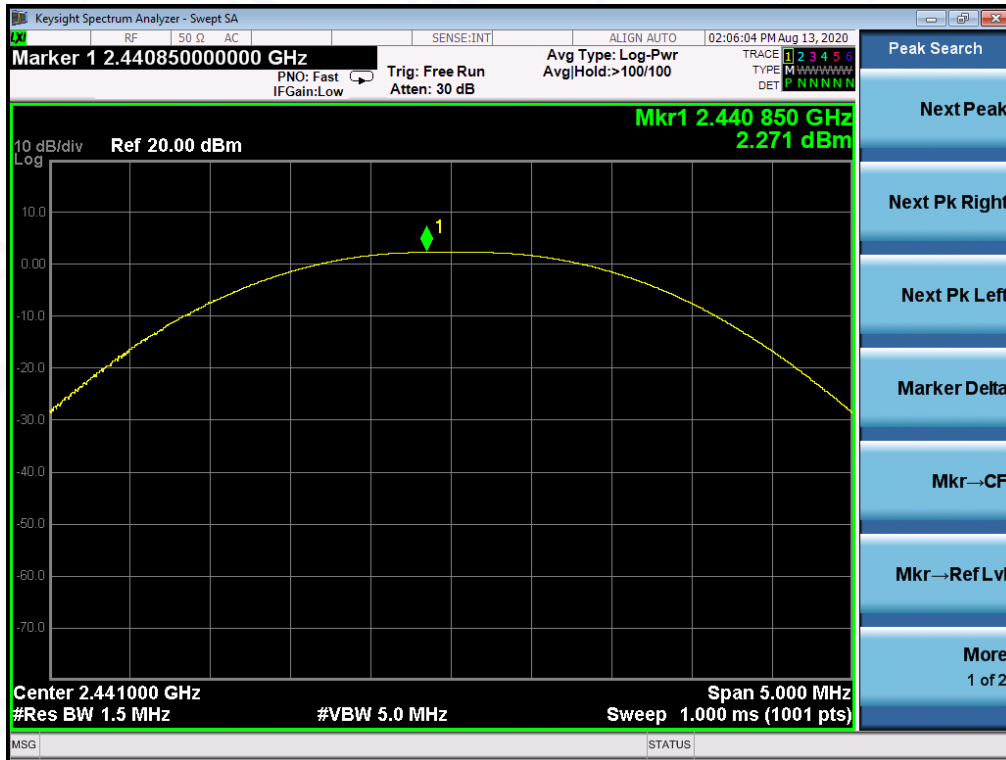


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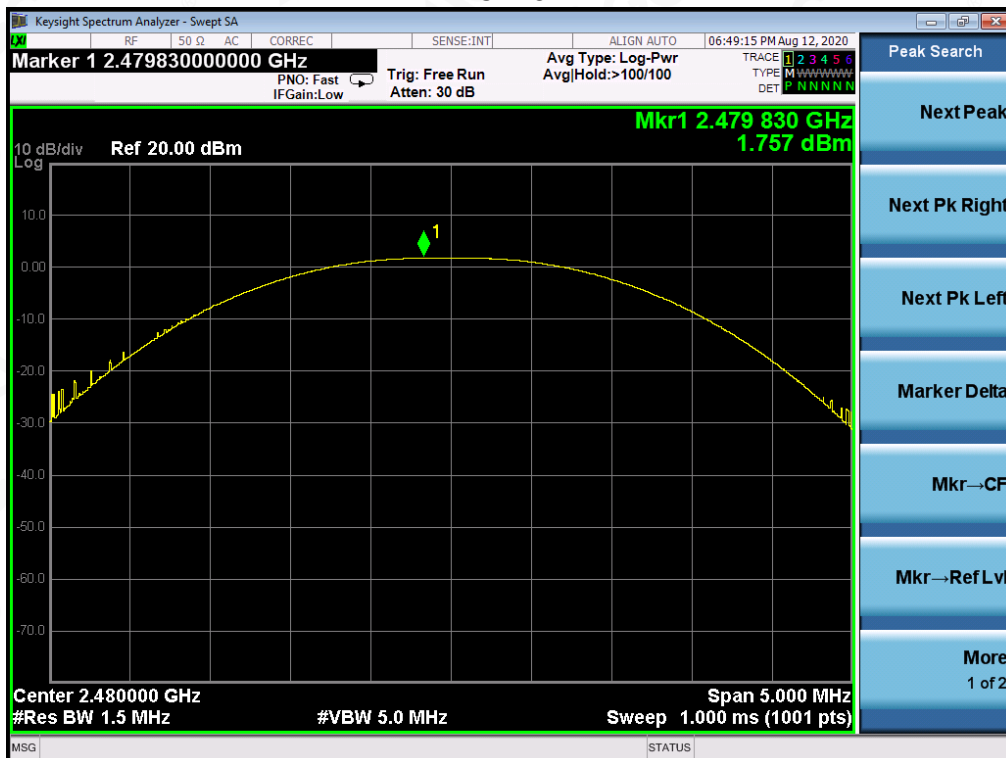
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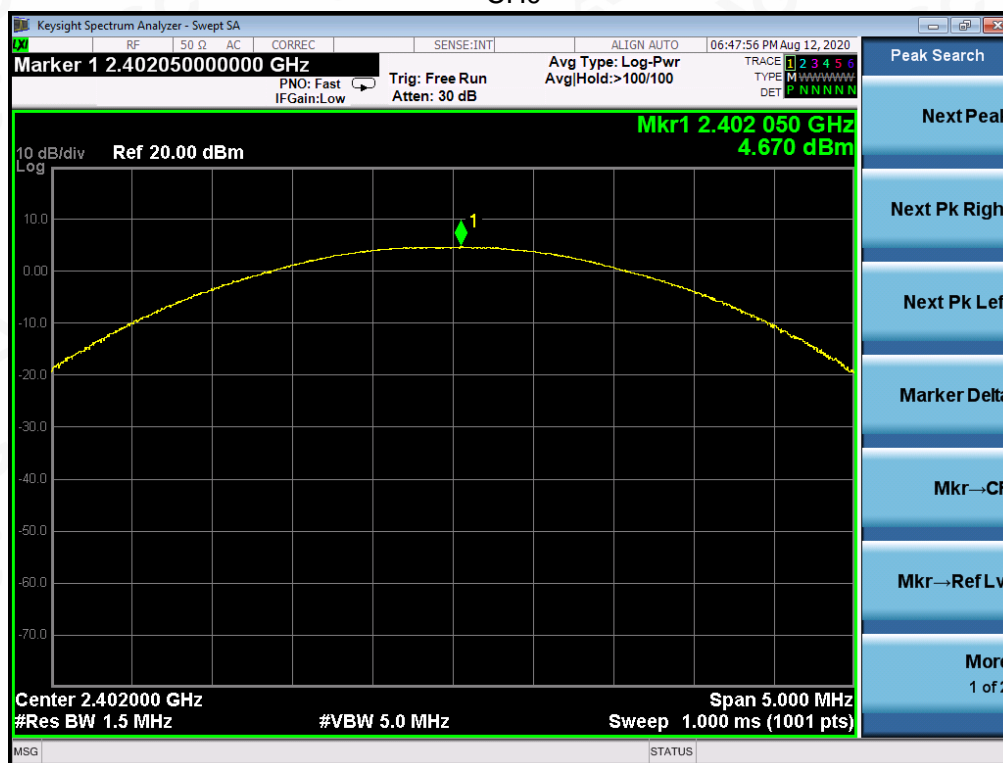
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR $\Pi$ /4-DQPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	4.670	21	Pass
2.441	3.408	21	Pass
2.480	2.263	21	Pass

CH0

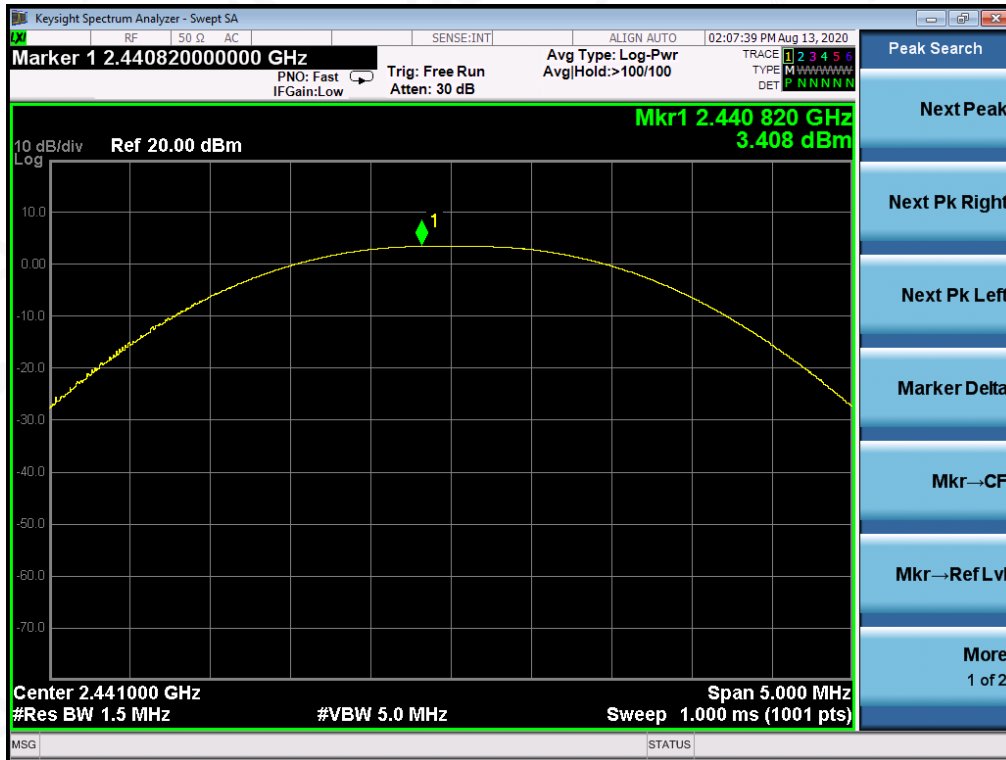


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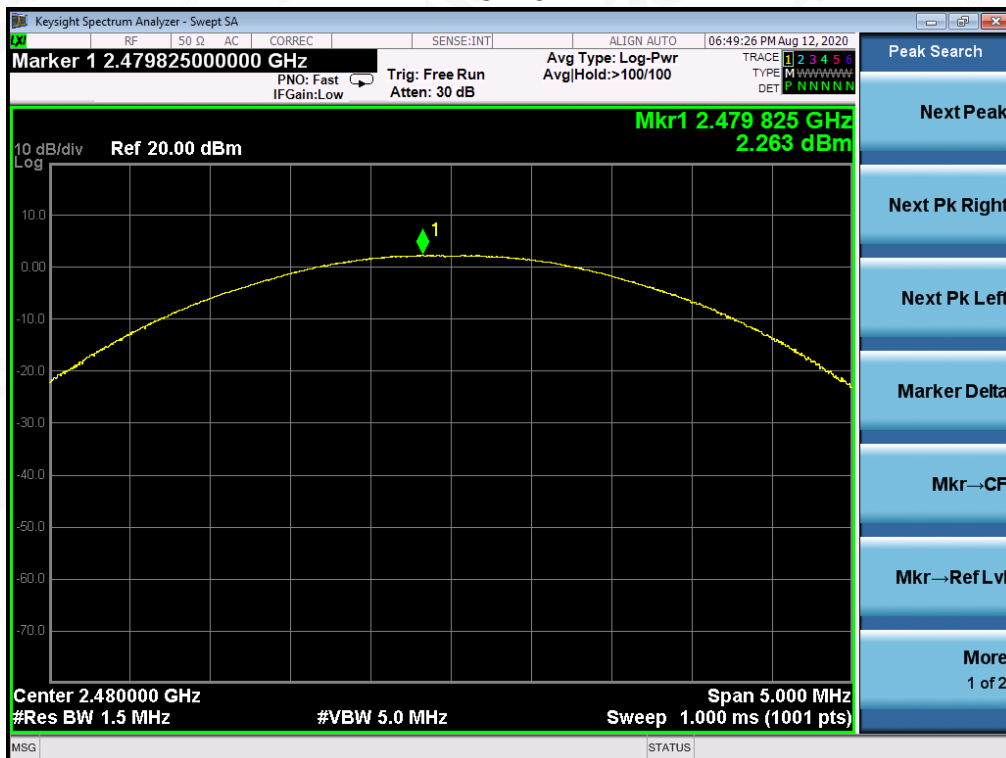
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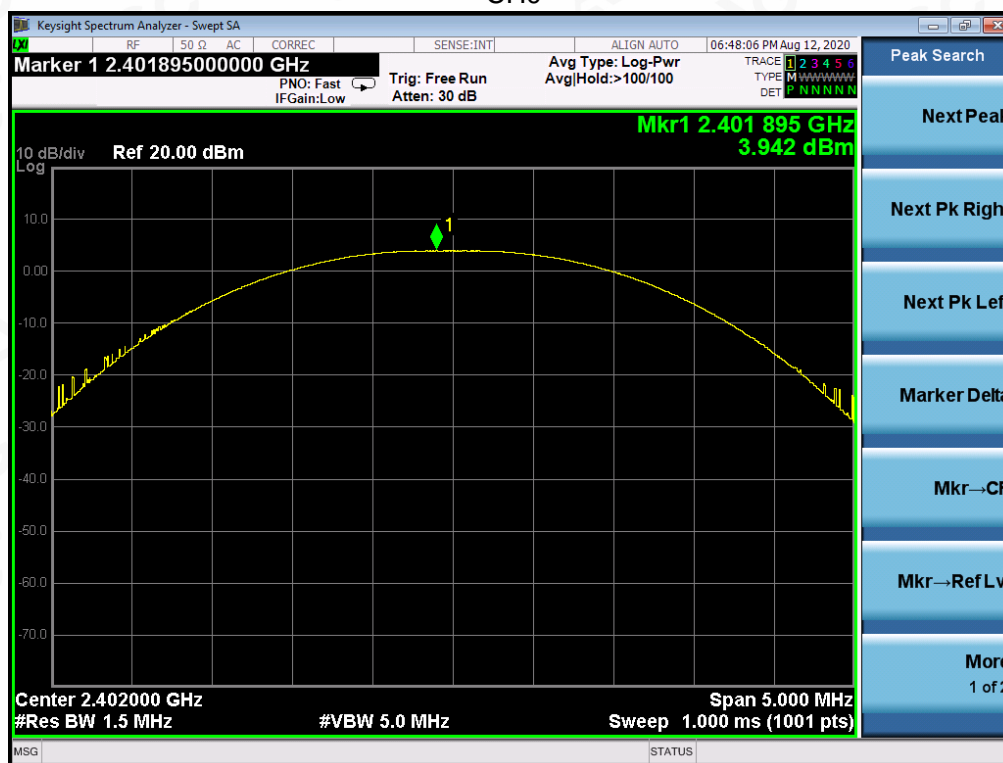
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PEAK OUTPUT POWER MEASUREMENT RESULT FOR 8-DPSK MODULATION			
Frequency (GHz)	Peak Power (dBm)	Applicable Limits (dBm)	Pass or Fail
2.402	3.942	21	Pass
2.441	3.521	21	Pass
2.480	2.732	21	Pass

CH0



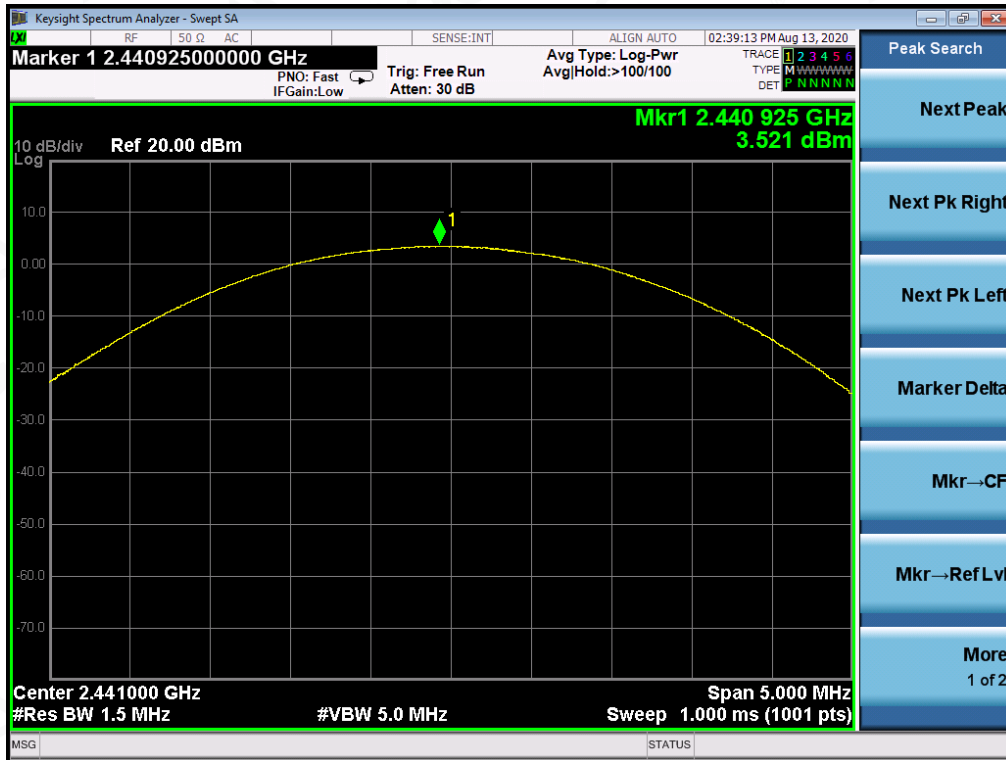
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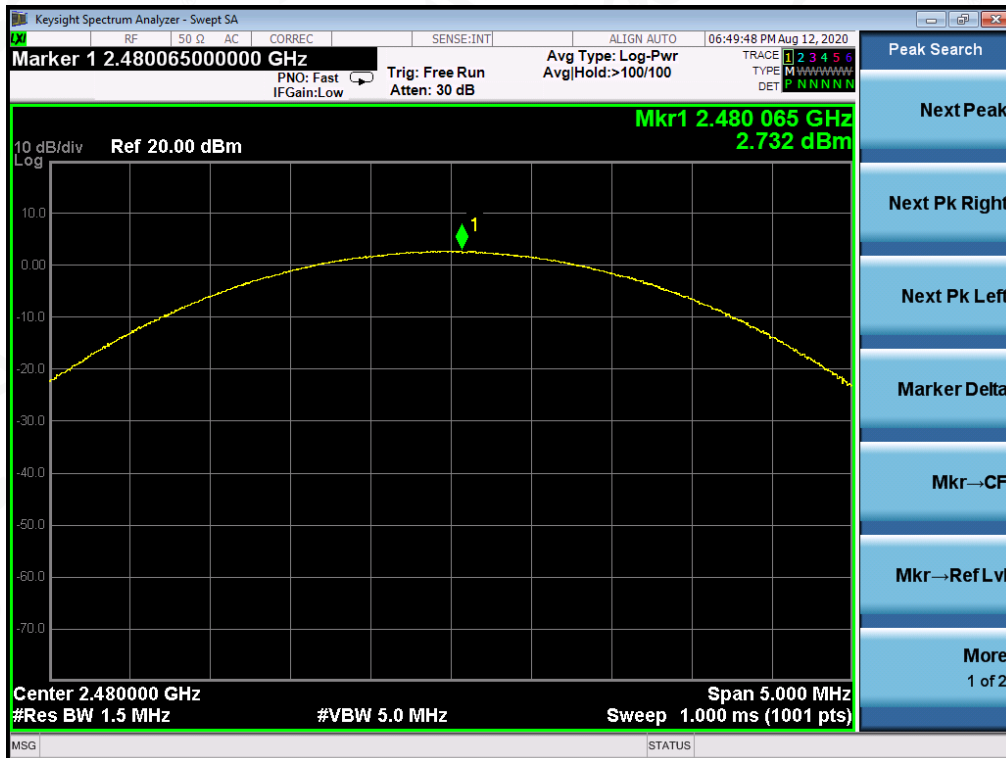




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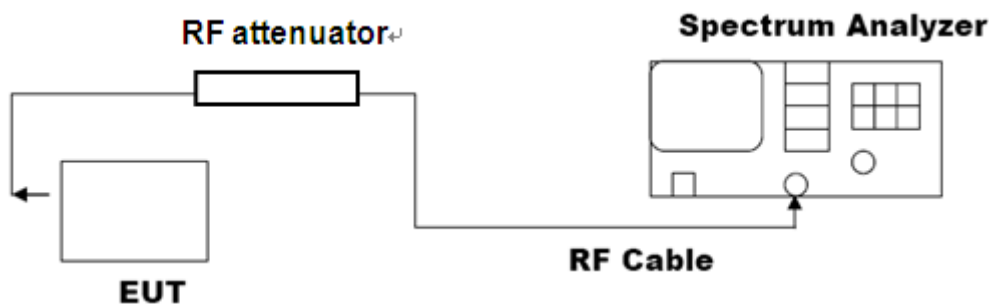


## 8. 20DB BANDWIDTH

### 8.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hoping channel  
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

### 8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



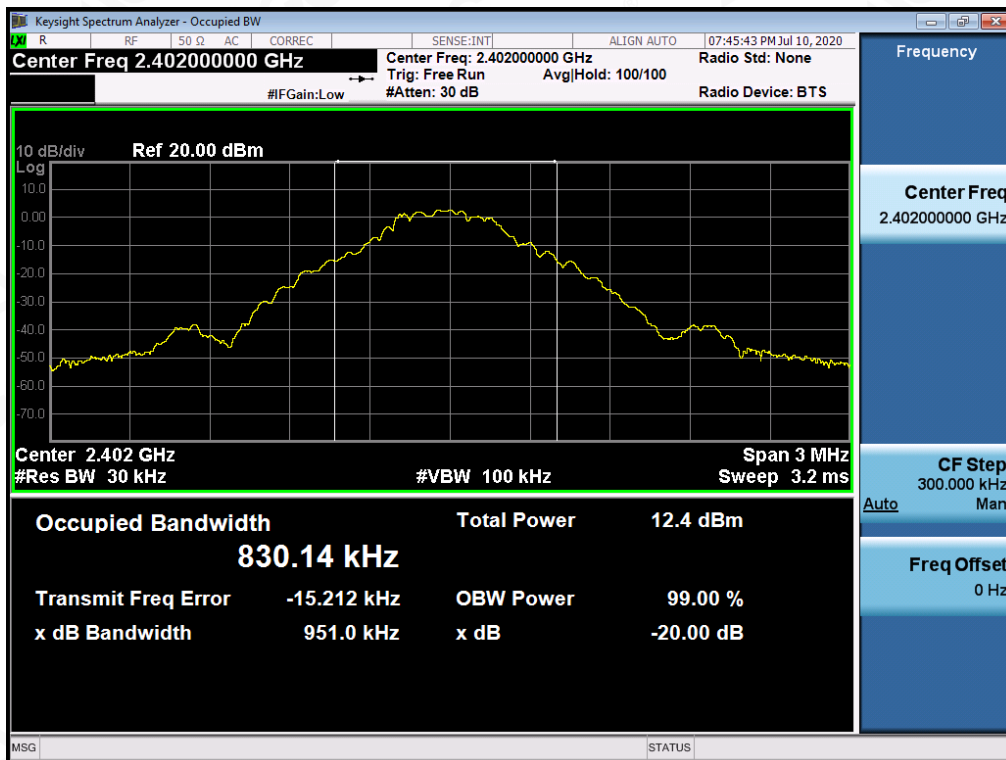
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### 8.3. LIMITS AND MEASUREMENT RESULTS

MEASUREMENT RESULT FOR GFSK MOUDULATION			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	0.951	PASS
	Middle Channel	0.951	PASS
	High Channel	0.951	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

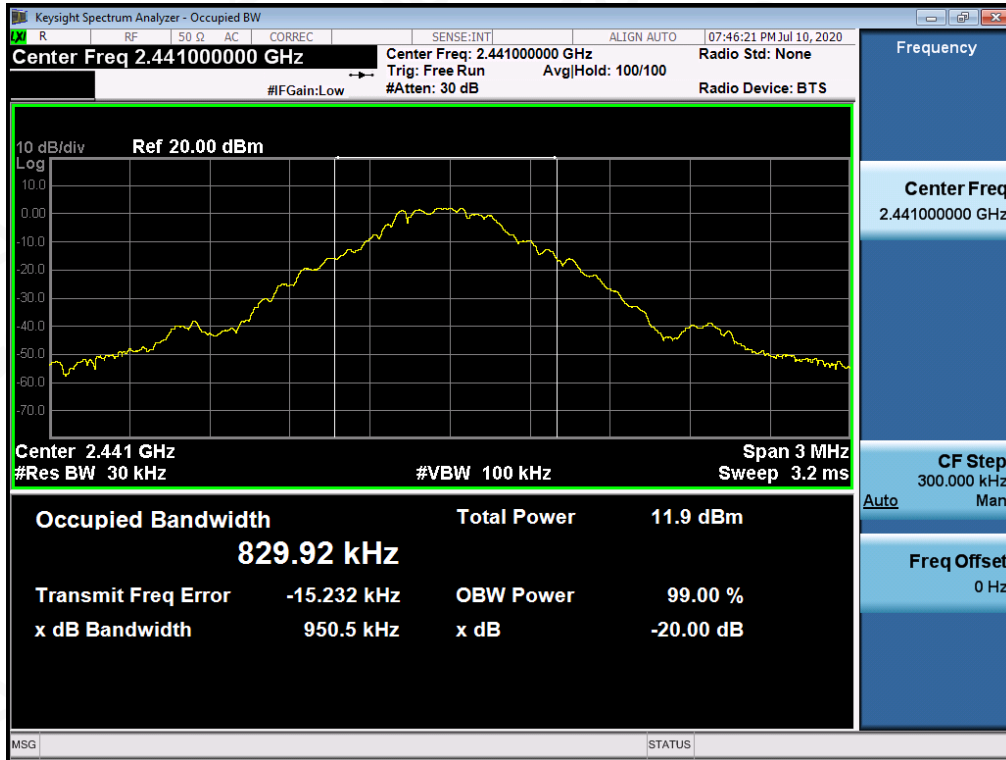


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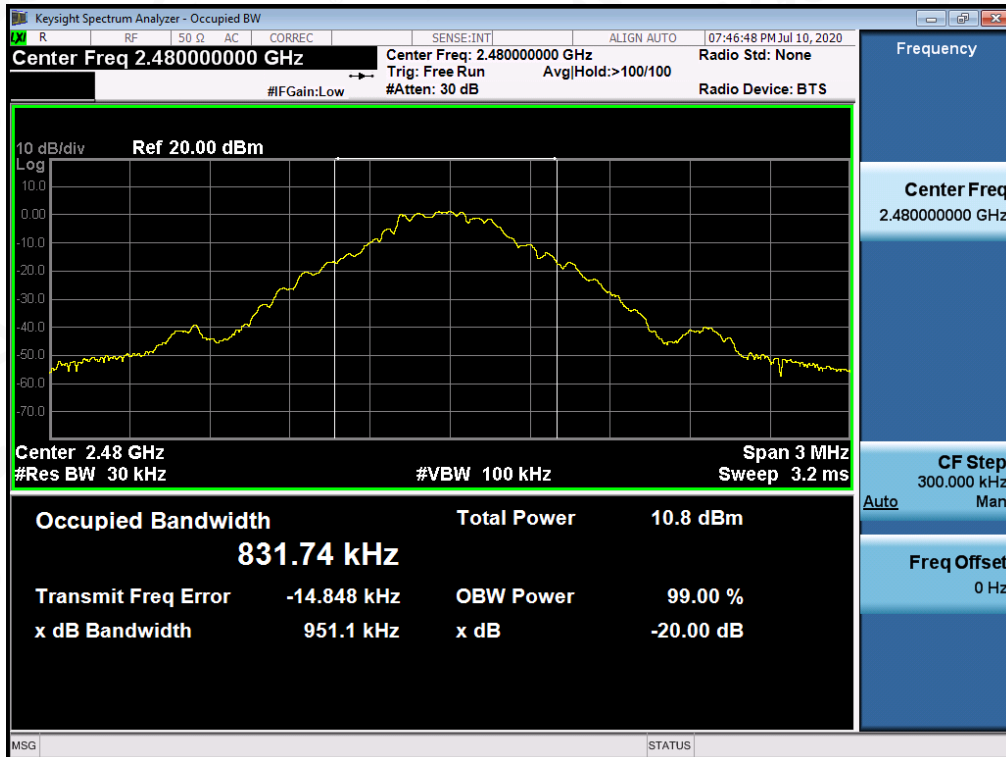
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



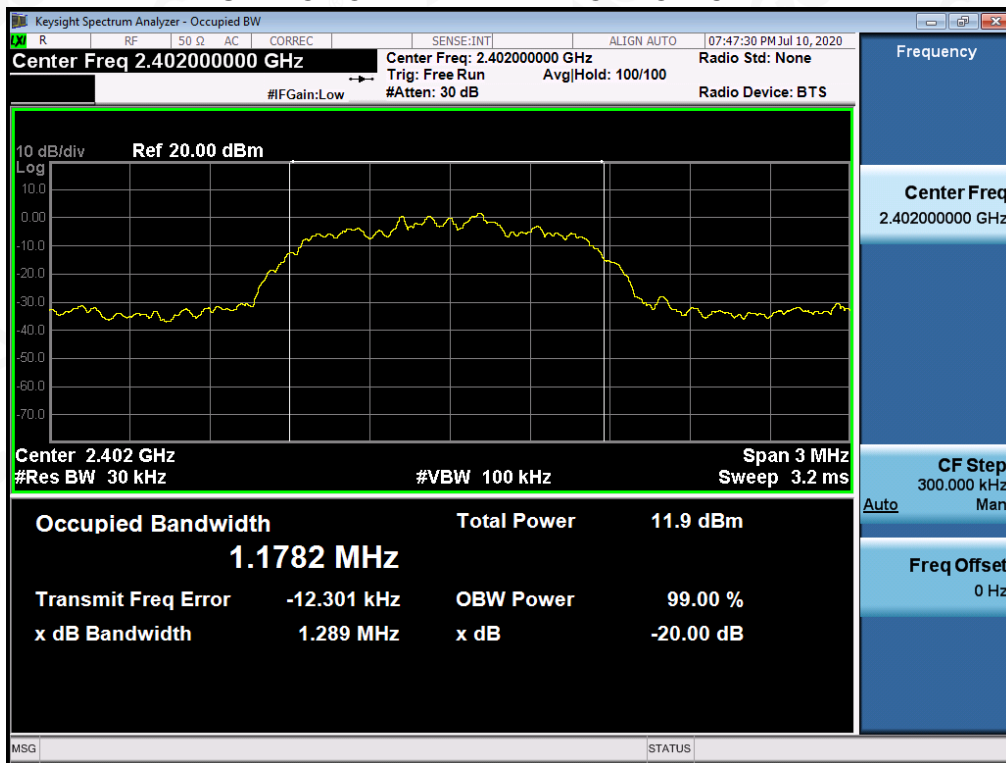
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MEASUREMENT RESULT FOR II /4-DQPSK MODULATION			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.289	PASS
	Middle Channel	1.291	PASS
	High Channel	1.312	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

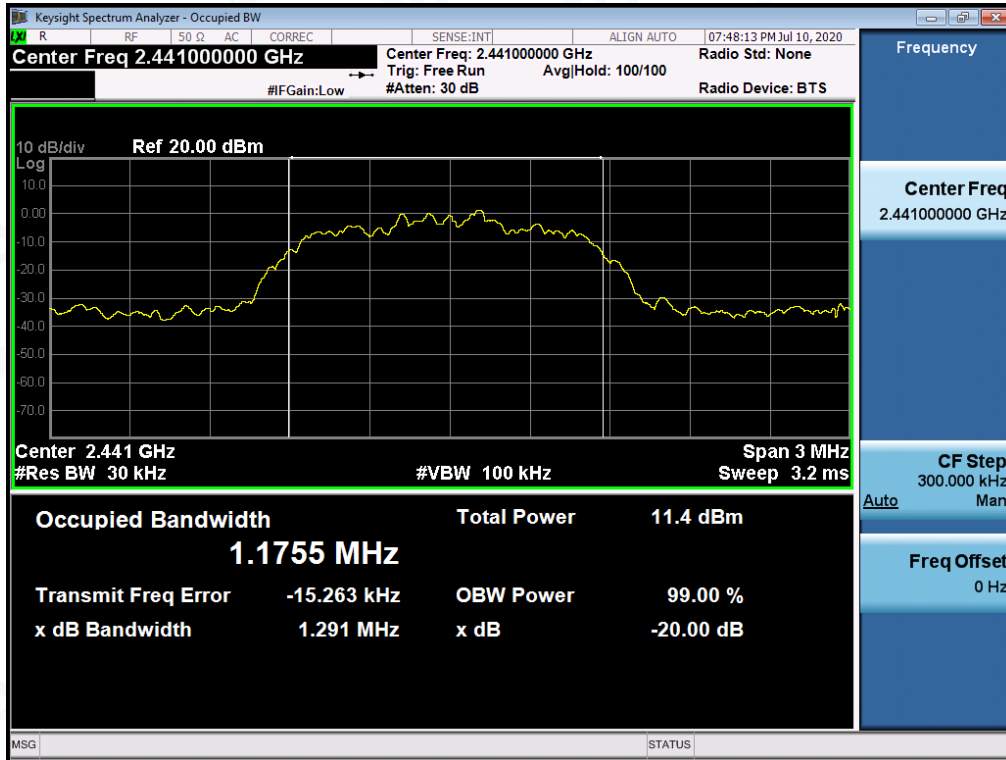


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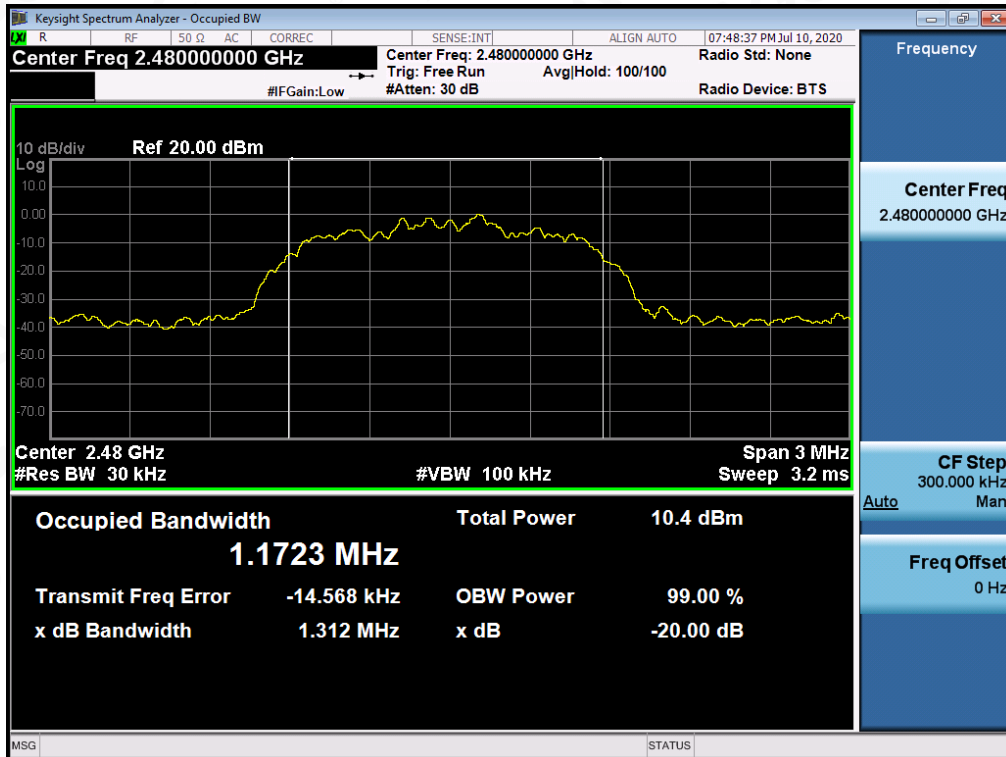
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



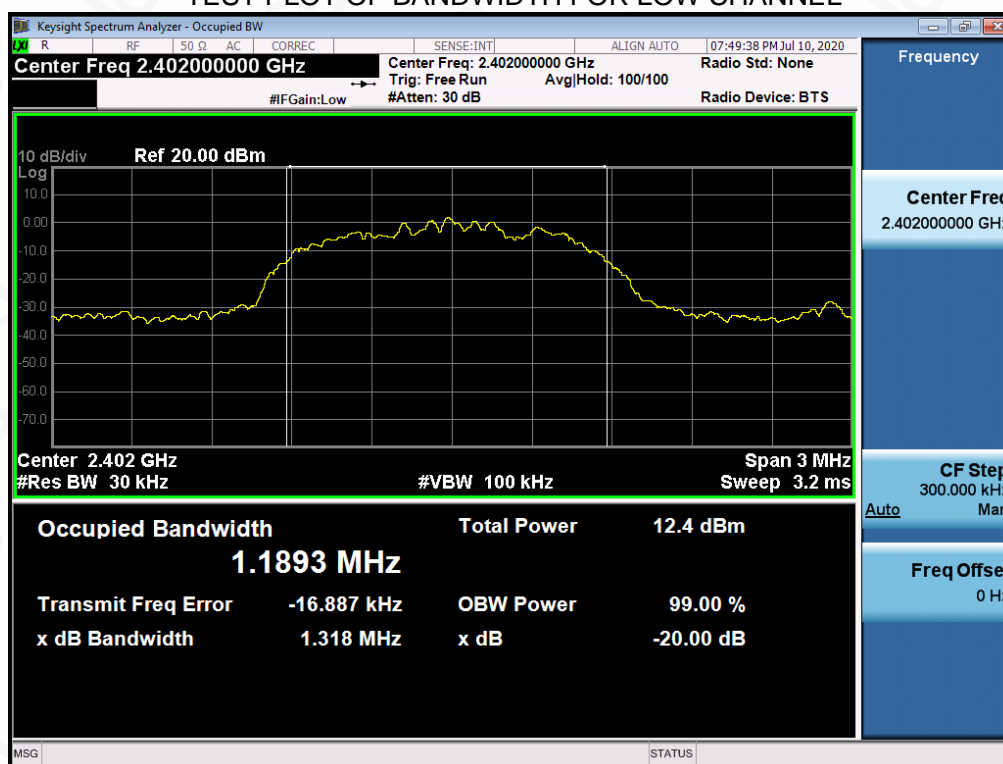
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MEASUREMENT RESULT FOR 8-DPSK MODULATION			
Applicable Limits	Measurement Result		
	Test Data (MHz)		Criteria
N/A	Low Channel	1.318	PASS
	Middle Channel	1.319	PASS
	High Channel	1.317	PASS

TEST PLOT OF BANDWIDTH FOR LOW CHANNEL

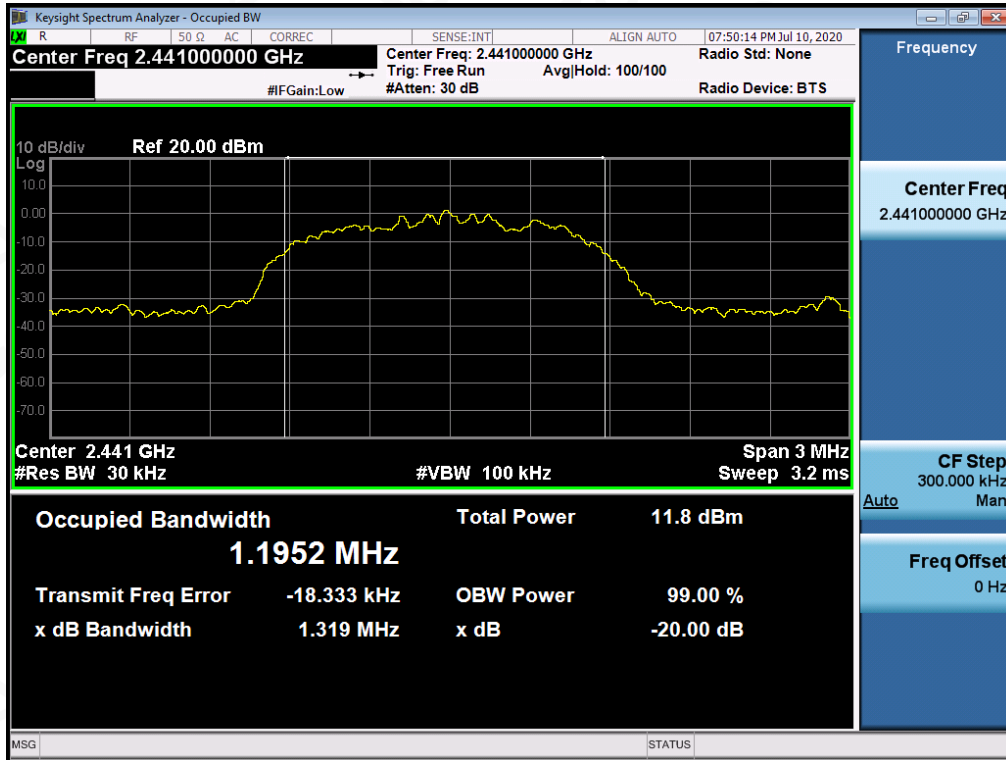


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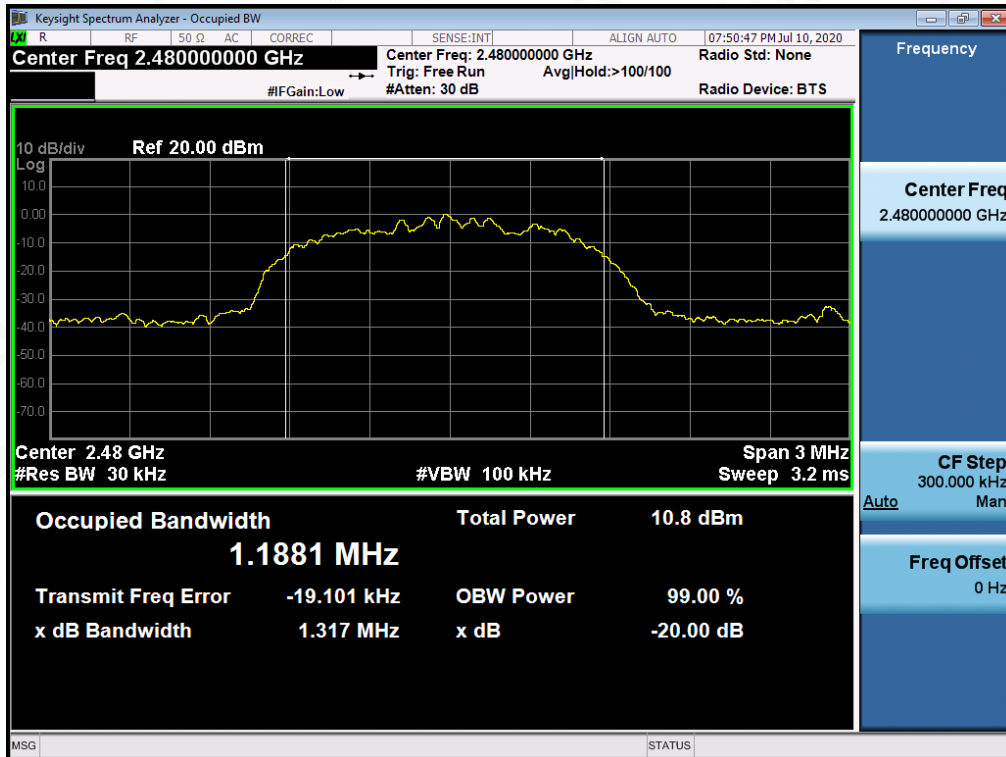
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TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



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## 9. CONDUCTED SPURIOUS EMISSION

### 9.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.  
RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.
4. Set SPA Trace 1 Max hold, then View.

### 9.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2

### 9.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6

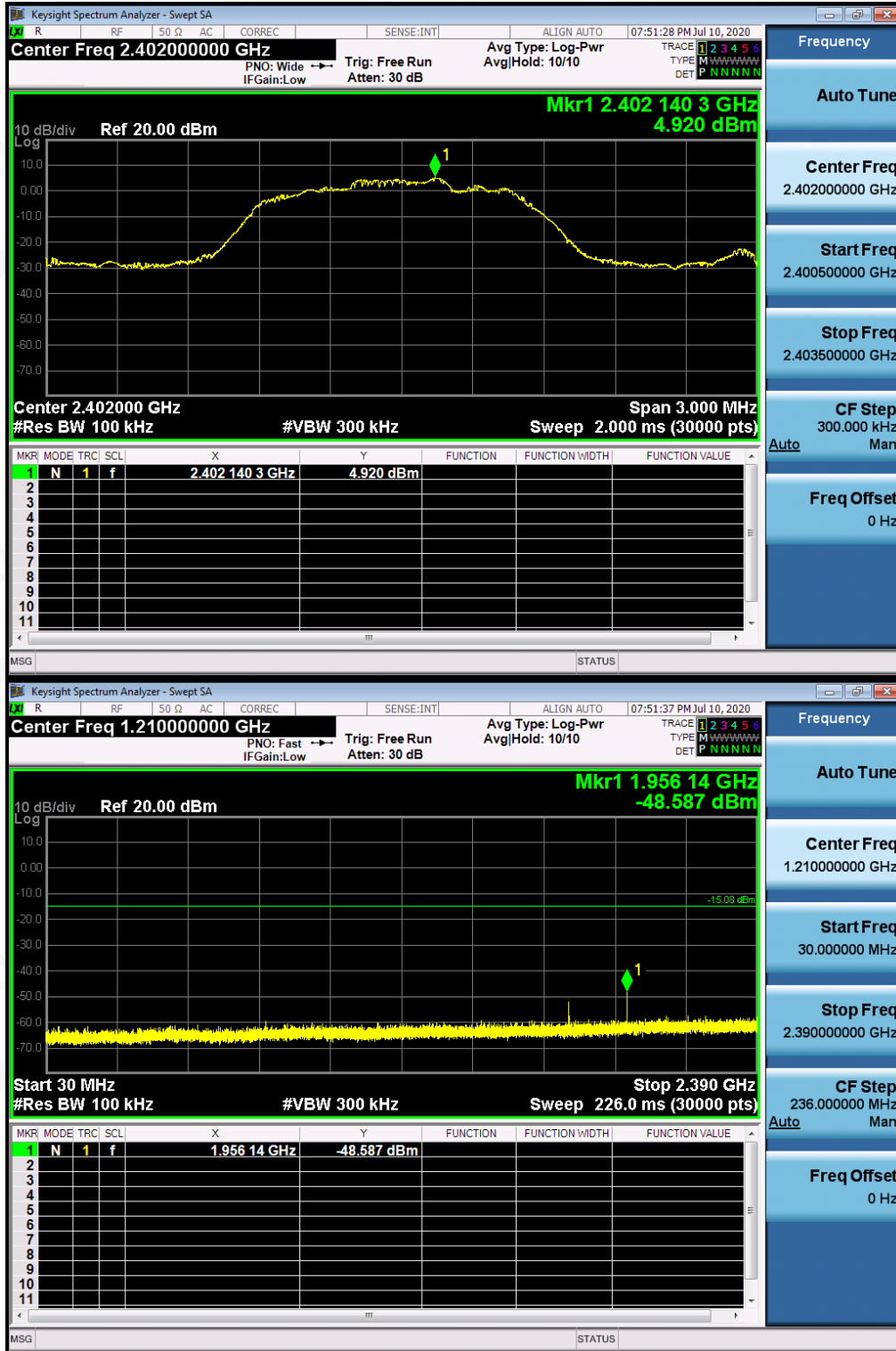
### 9.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT		
Applicable Limits	Measurement Result	
	Test Data	Criteria
In any 100 KHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest level of the desired power. In addition, radiation emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in§15.209(a)	At least -20dBc than the limit Specified on the BOTTOM Channel	PASS
	At least -20dBc than the limit Specified on the TOP Channel	PASS

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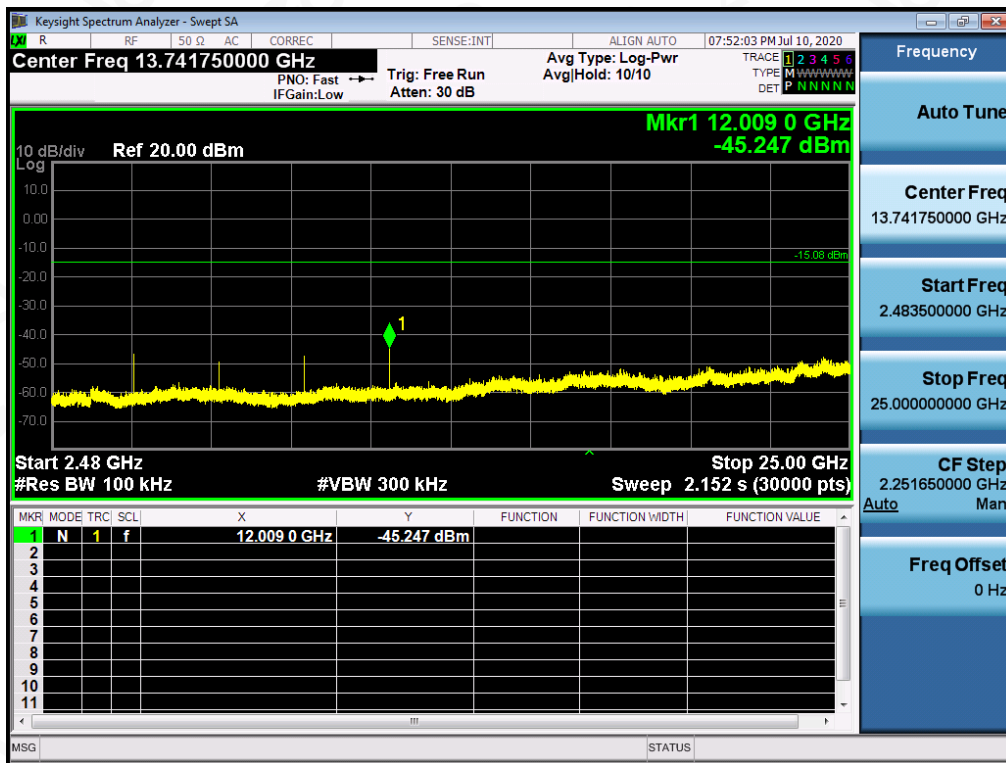
**TEST RESULT FOR ENTIRE FREQUENCY RANGE**  
**TEST PLOT OF OUT OF BAND EMISSIONS WITH THE WORST CASE**  
**OF 8DPSK MODULATION IN LOW CHANNEL**



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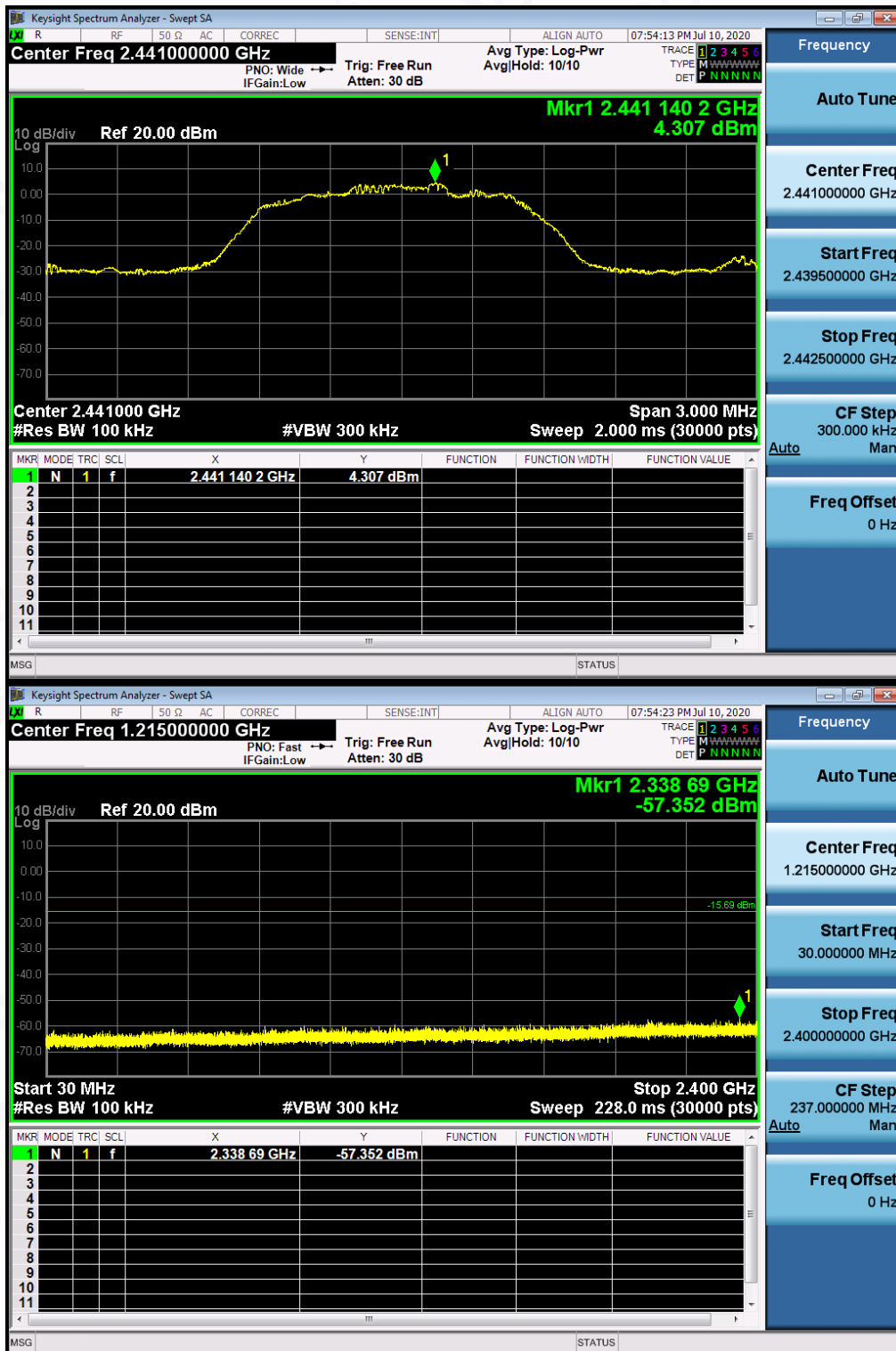


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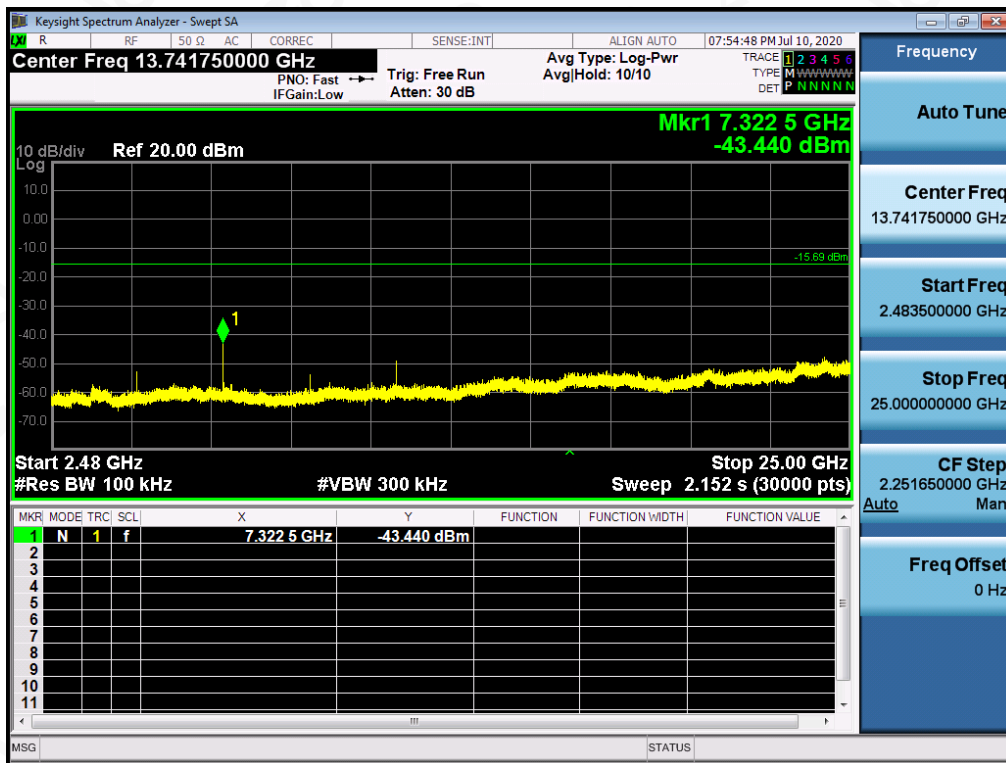
### TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN MIDDLE CHANNEL



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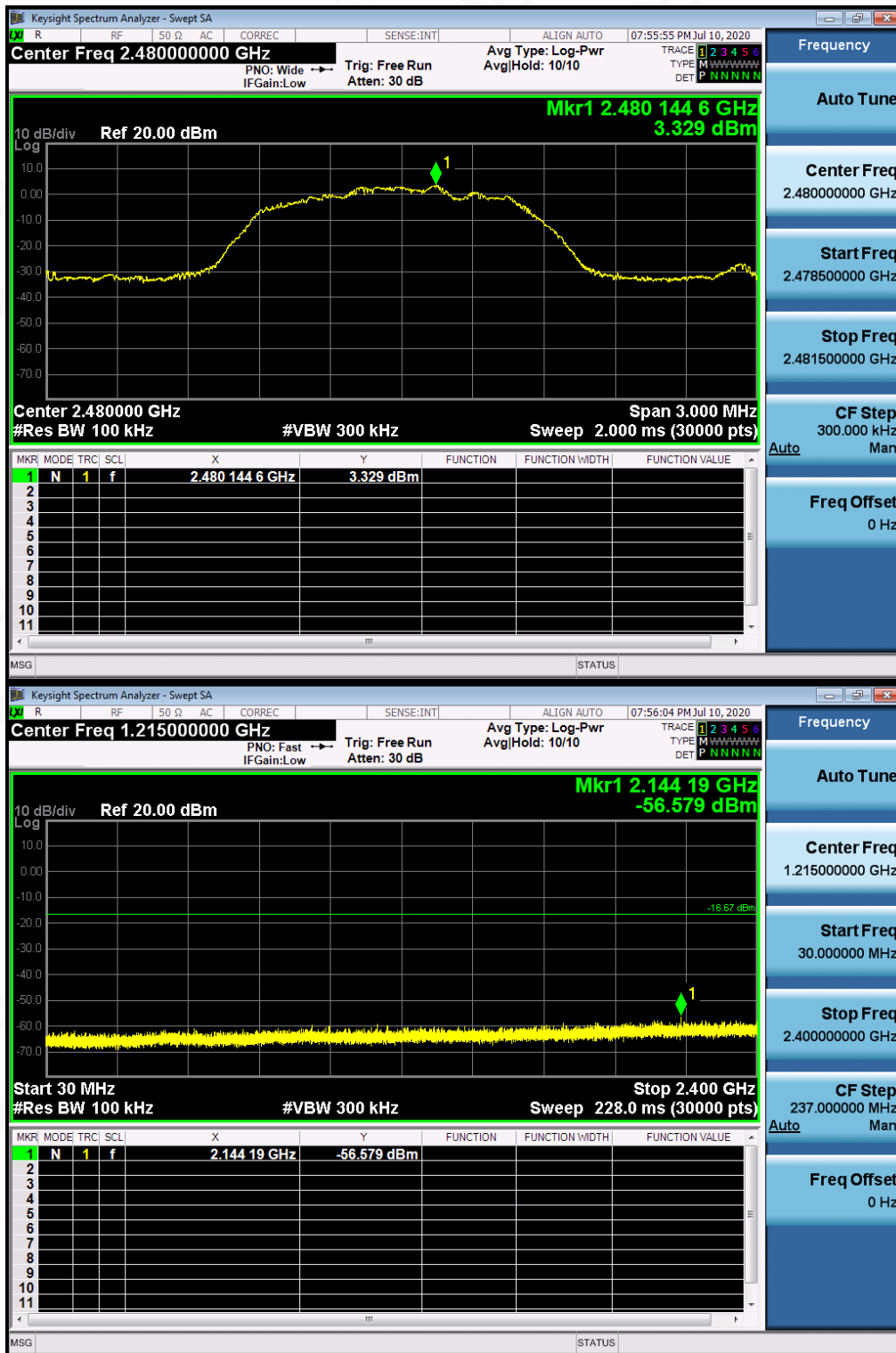


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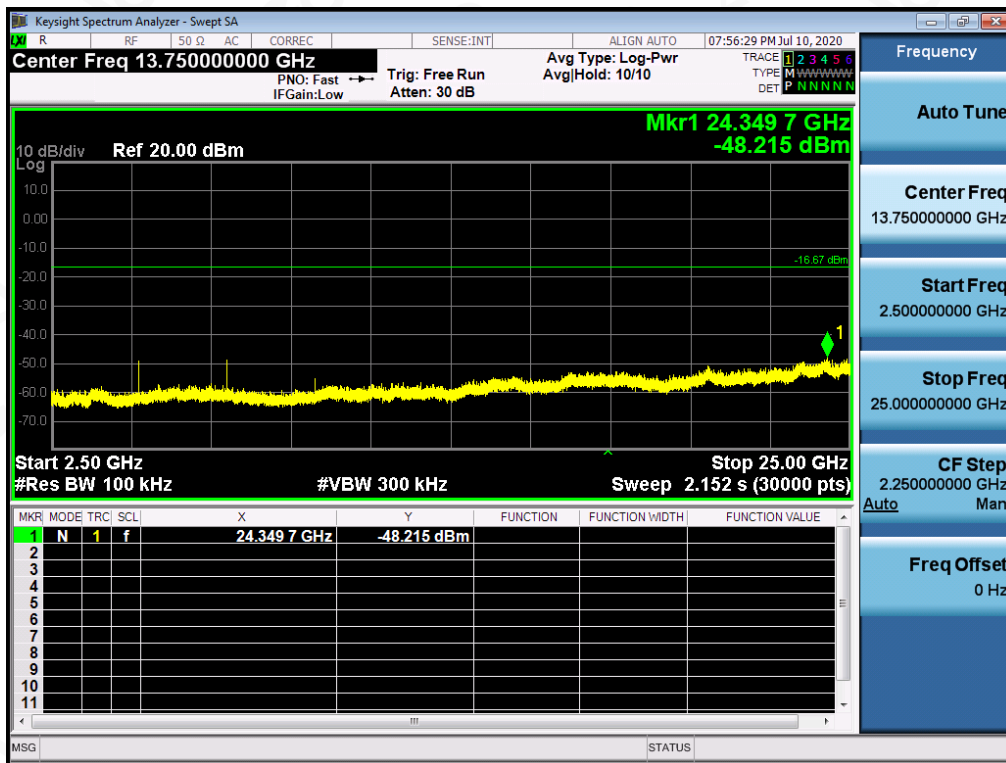
### TEST PLOT OF OUT OF BAND EMISSIONS OF 8DPSK MODULATION IN HIGH CHANNEL



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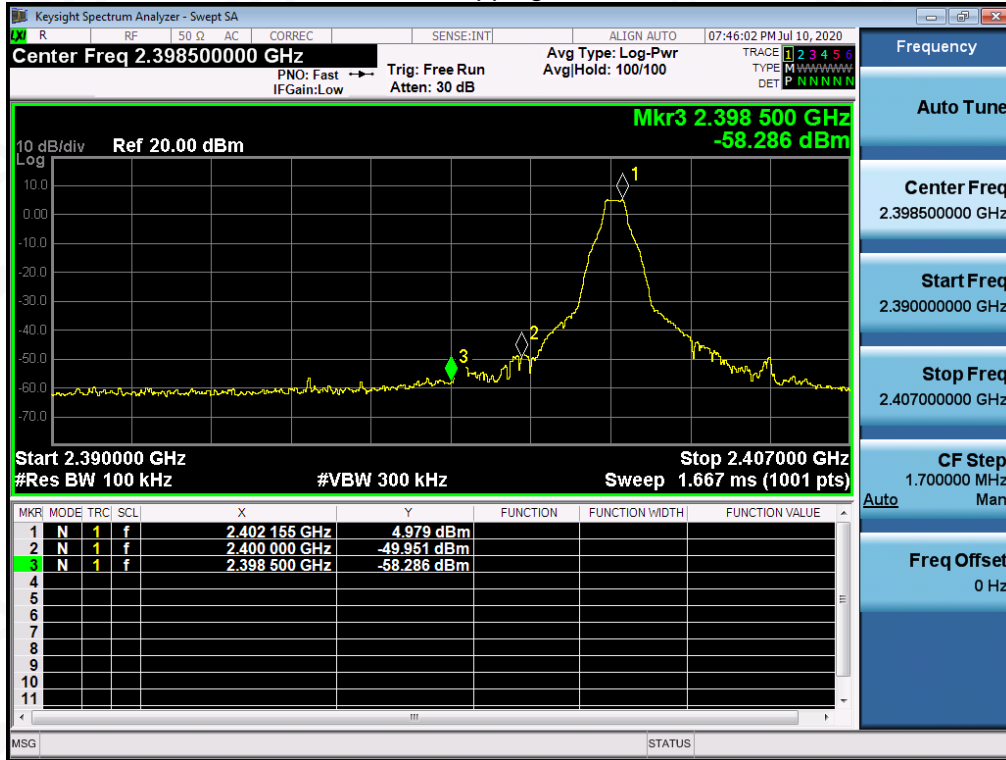
Note: The 8DPSK modulation is the worst case and only those data recorded in the report.

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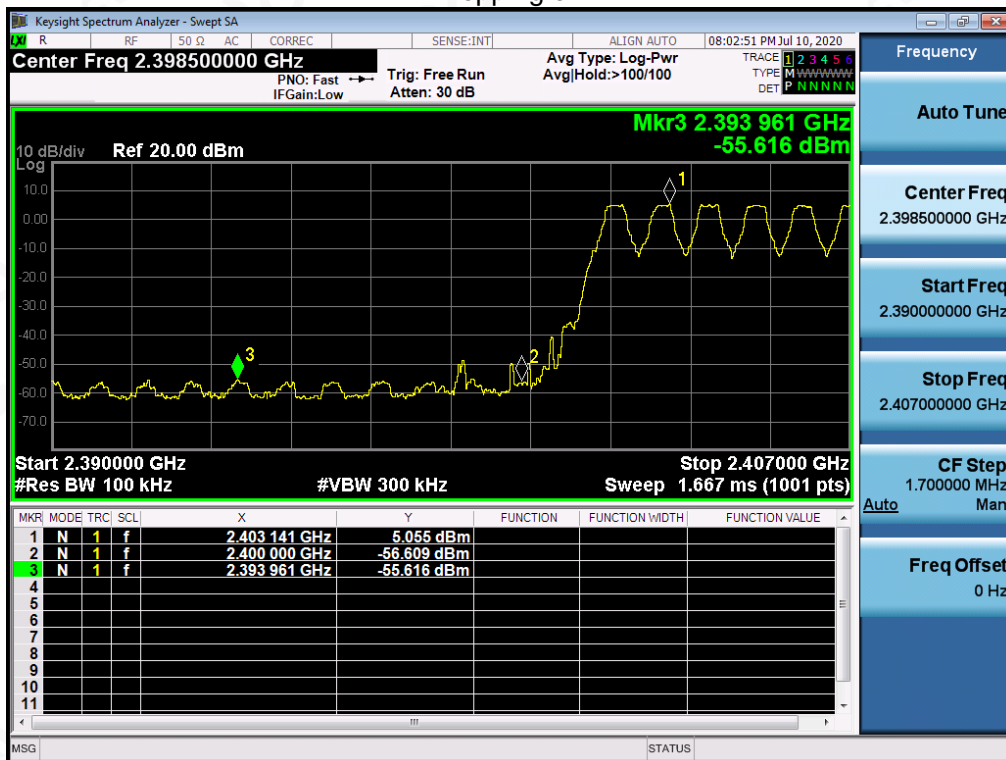
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**TEST RESULT FOR BAND EDGE**  
**GFSK MODULATION IN LOW CHANNEL**  
Hopping off



Hopping on



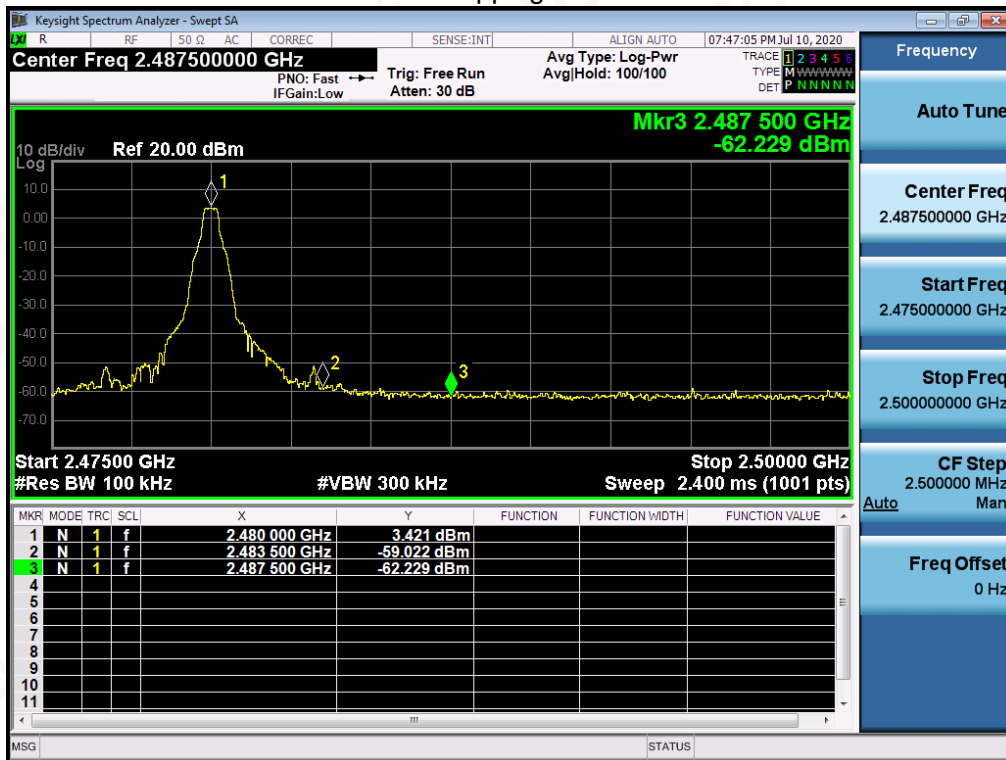
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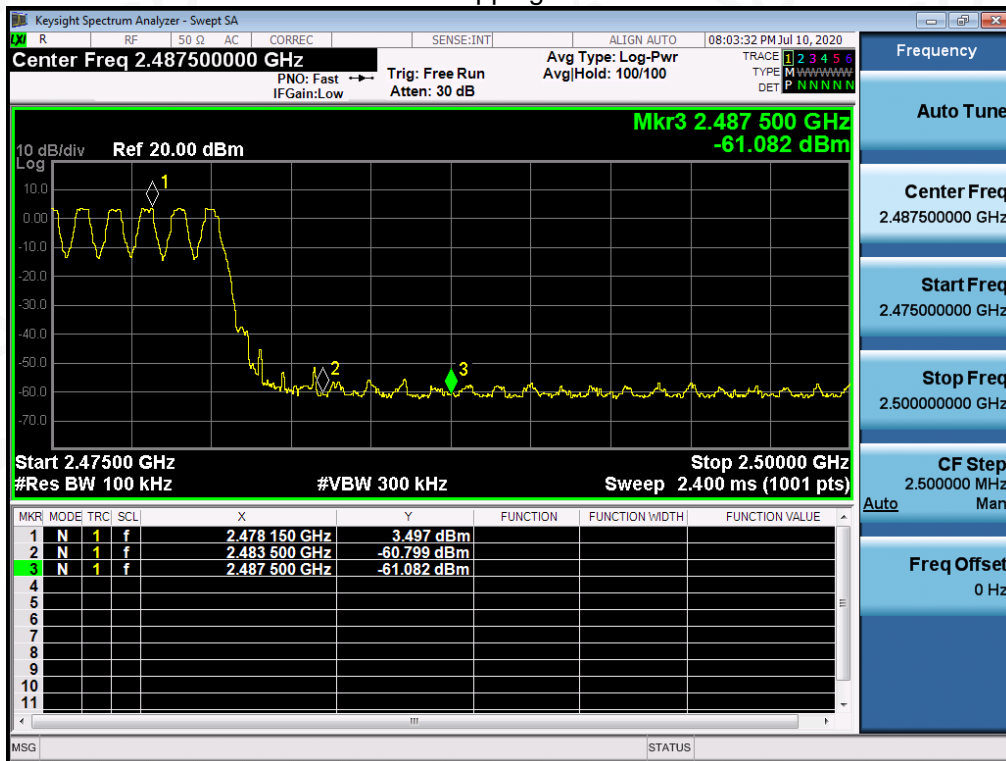




### GFSK MODULATION IN HIGH CHANNEL Hopping off



### Hopping on

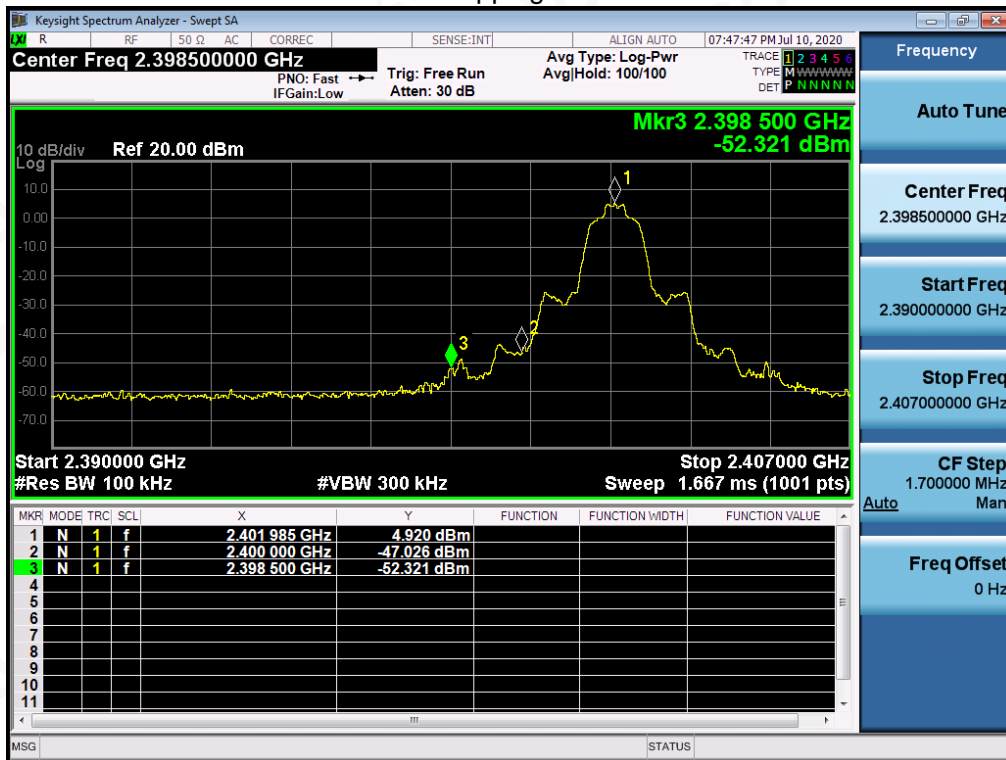


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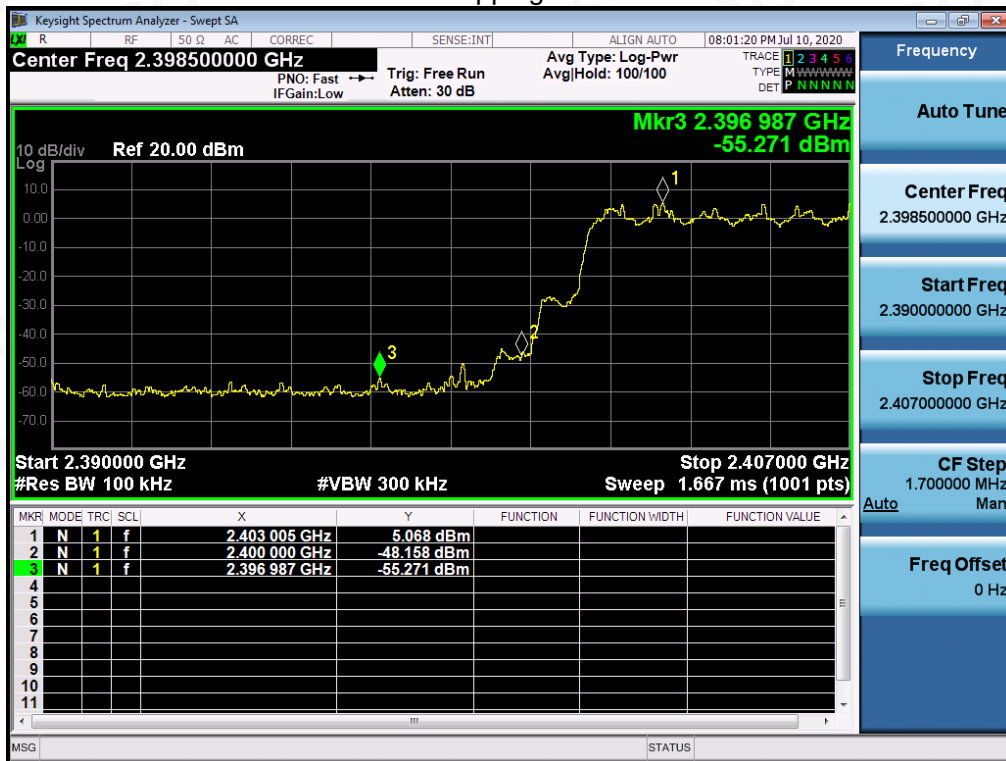
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$\pi$  /4-DQPSK MODULATION IN LOW CHANNEL  
Hopping off



Hopping on

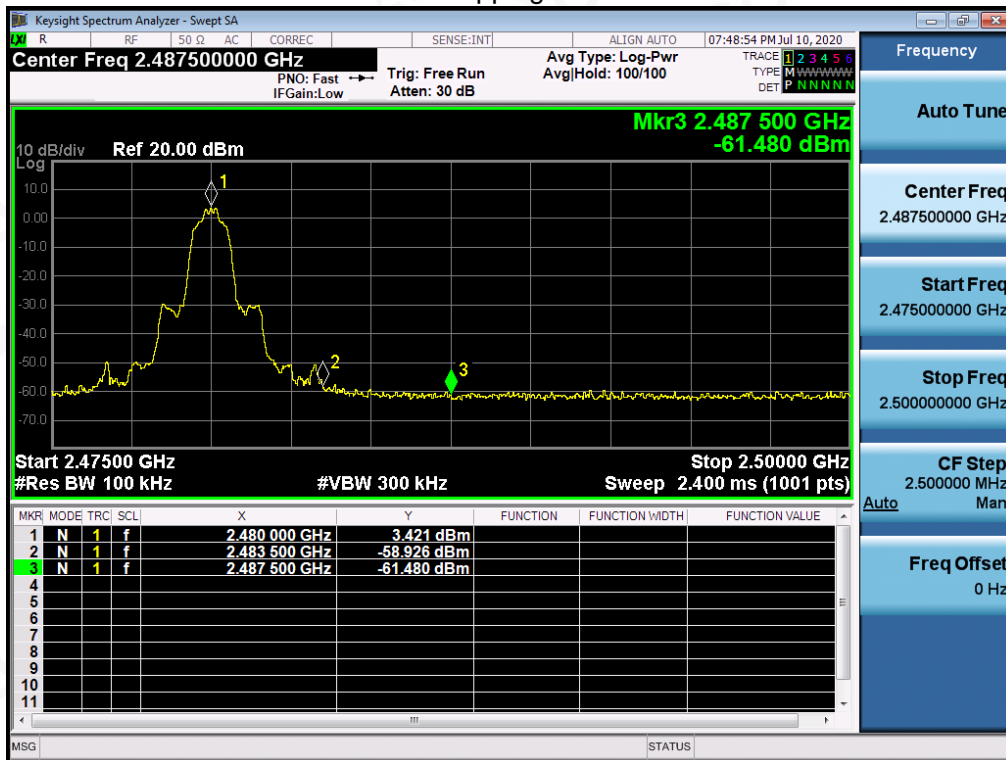


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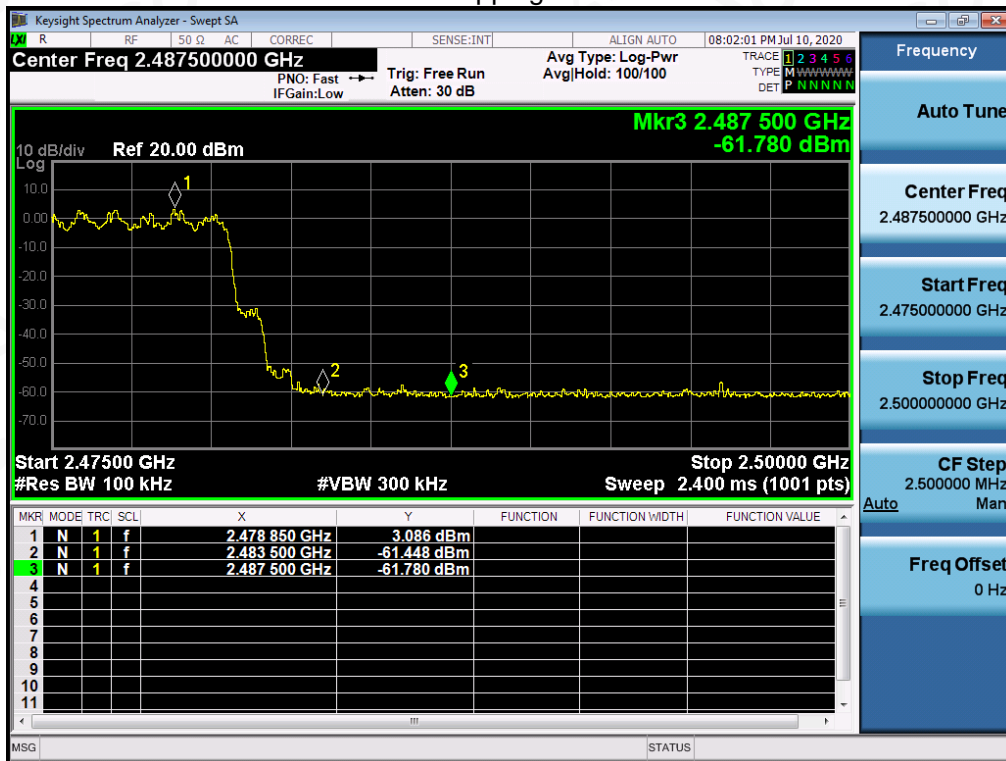
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$\pi$  /4-DQPSK MODULATION IN HIGH CHANNEL  
Hopping off



Hopping on

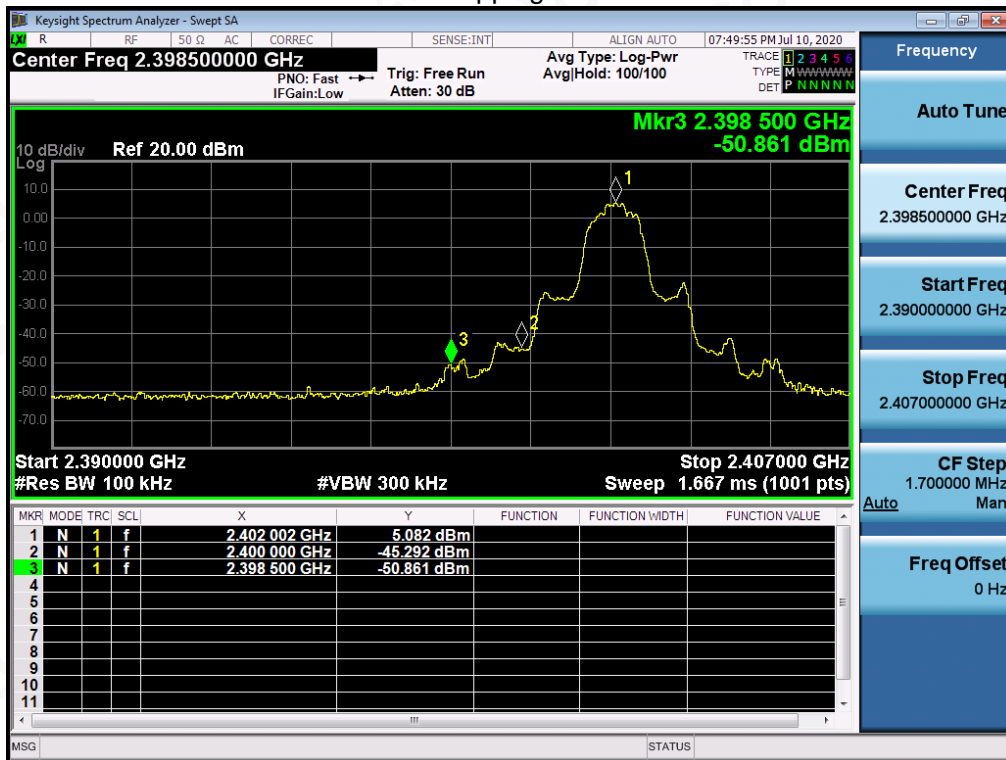


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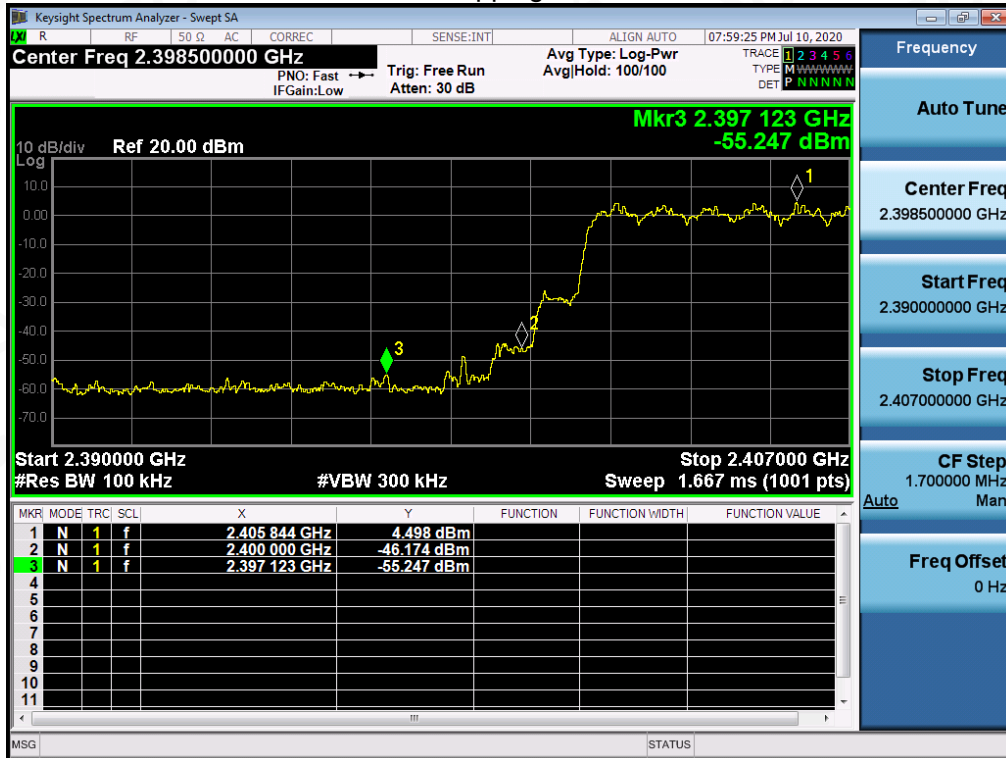
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### 8-DPSK MODULATION IN LOW CHANNEL Hopping off



### Hopping on

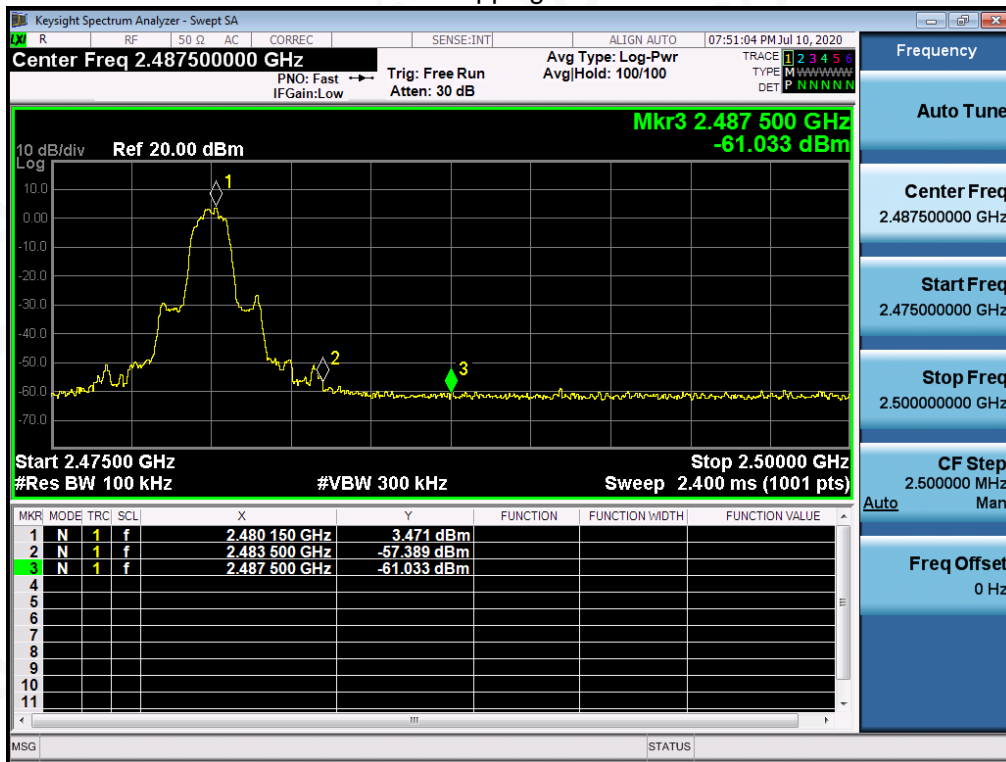


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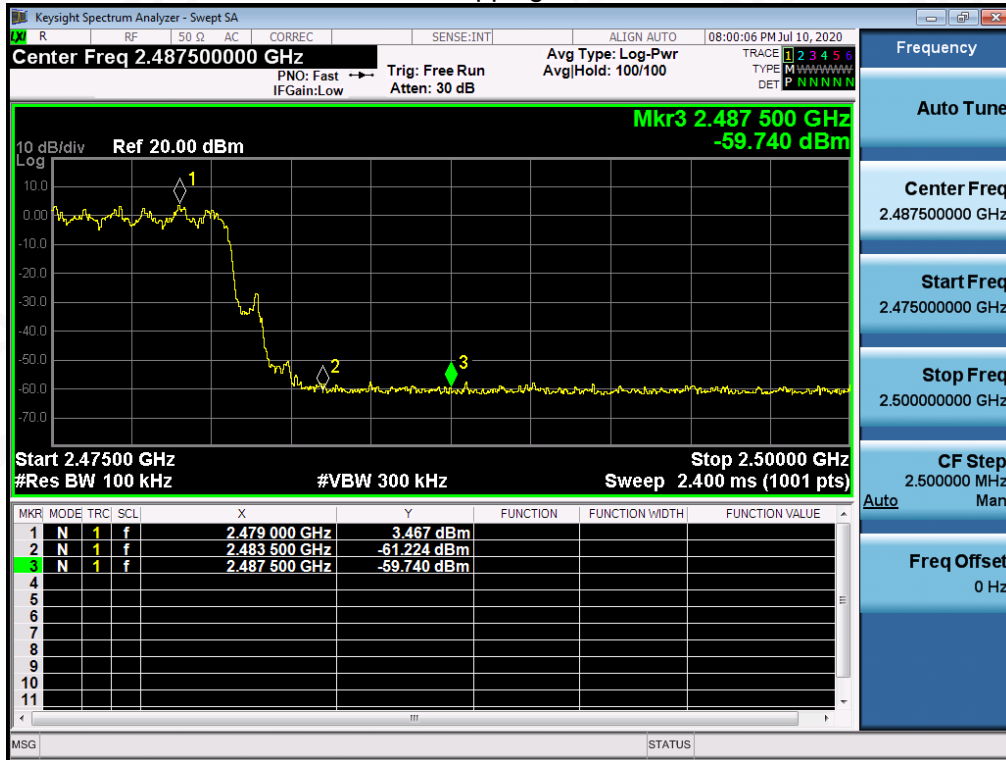
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### 8-DPSK MODULATION IN HIGH CHANNEL Hopping off



### Hopping on



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