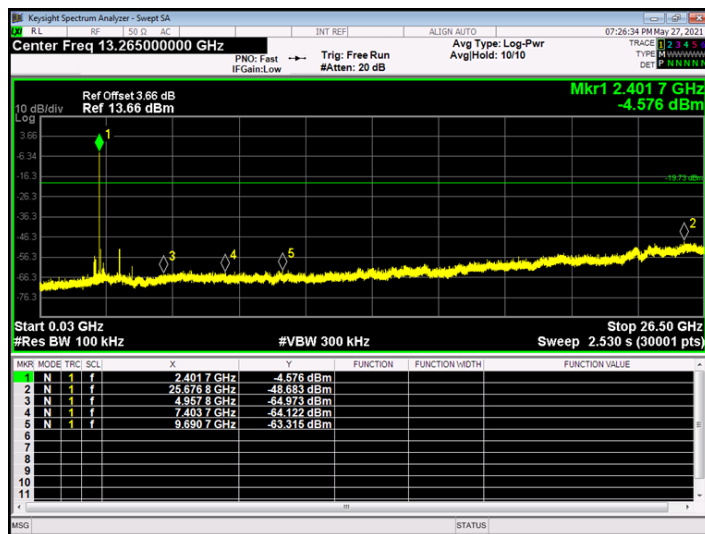
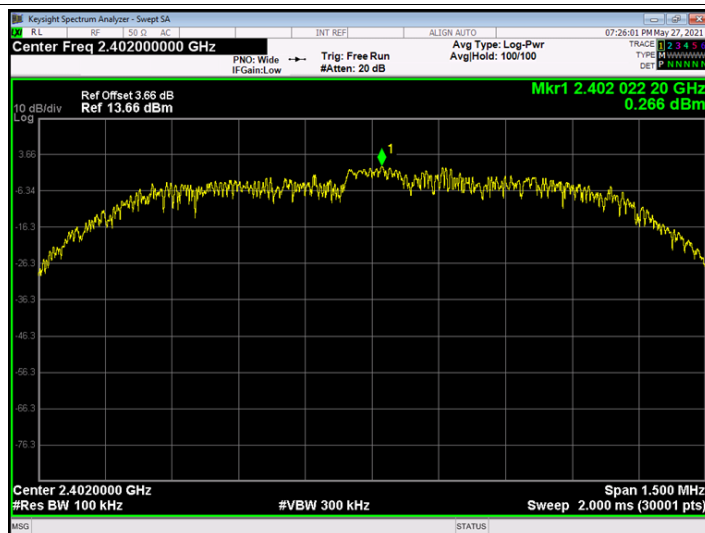


Temperature:	25°C		Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz				
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
π /4-DQPSK	2402	Ant1	-48.95	-20	Pass
π /4-DQPSK	2442	Ant1	-49.52	-20	Pass
π /4-DQPSK	2480	Ant1	-48.35	-20	Pass
Remark:	The EUT is programmed in continuously transmitting mode				

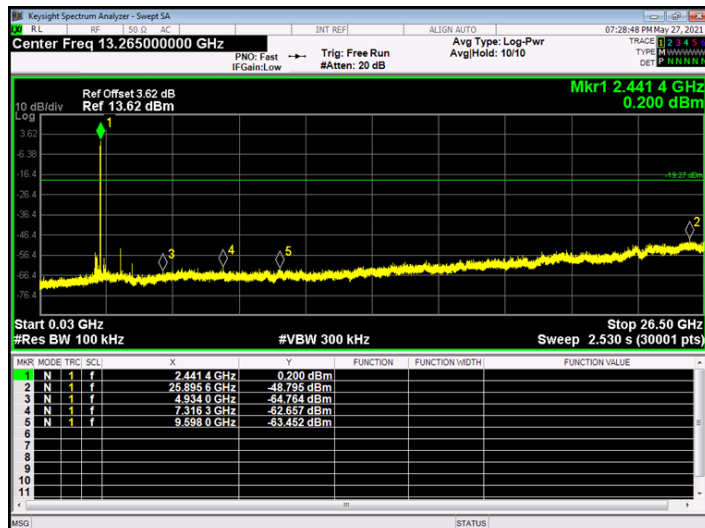
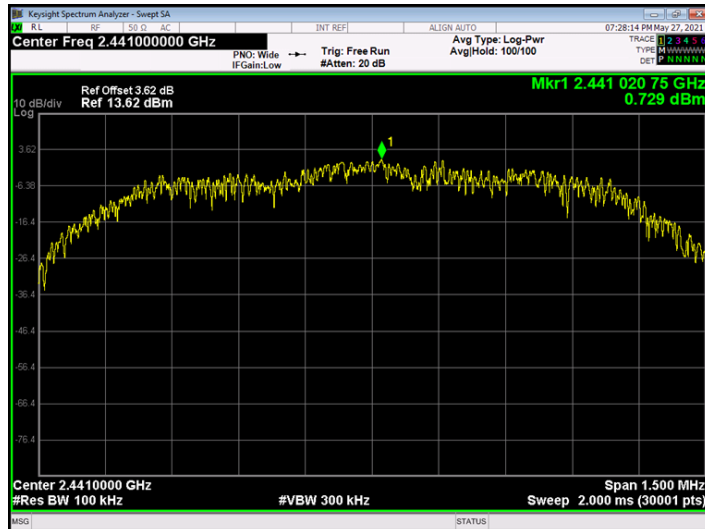
 $\pi/4$ -DQPSK Mode

2402 MHz



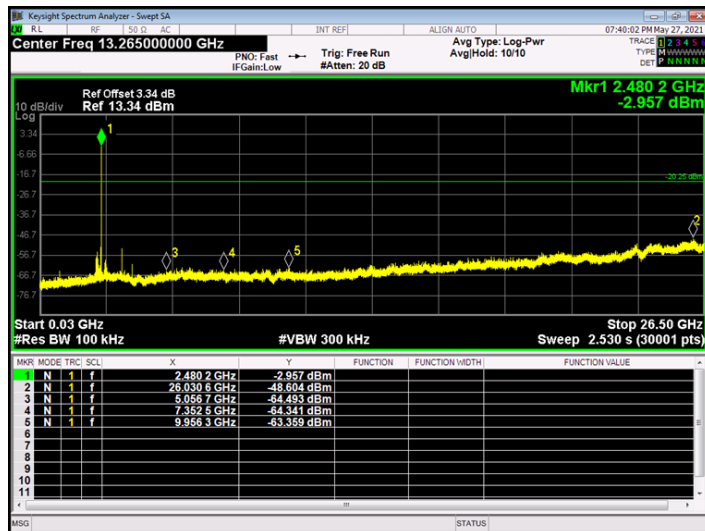
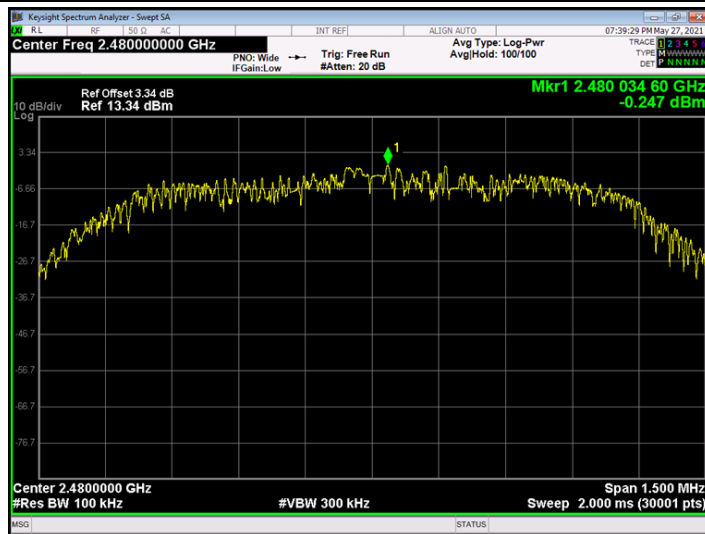
π /4-DQPSK Mode

2441 MHz



$\pi/4$ -DQPSK Mode

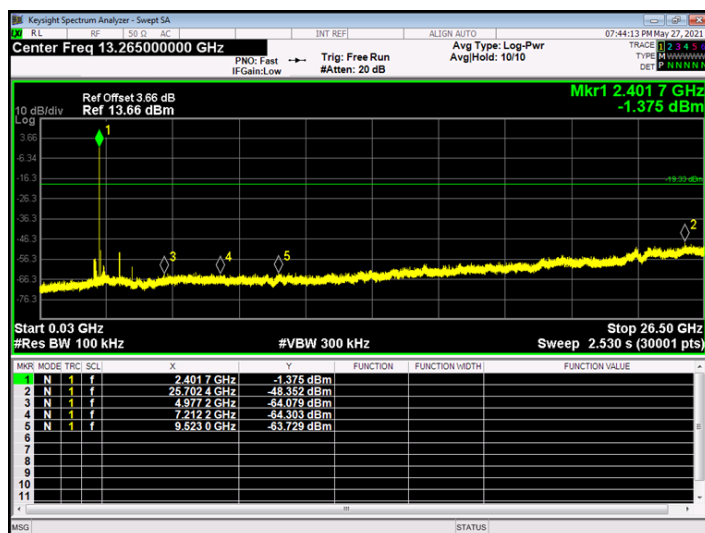
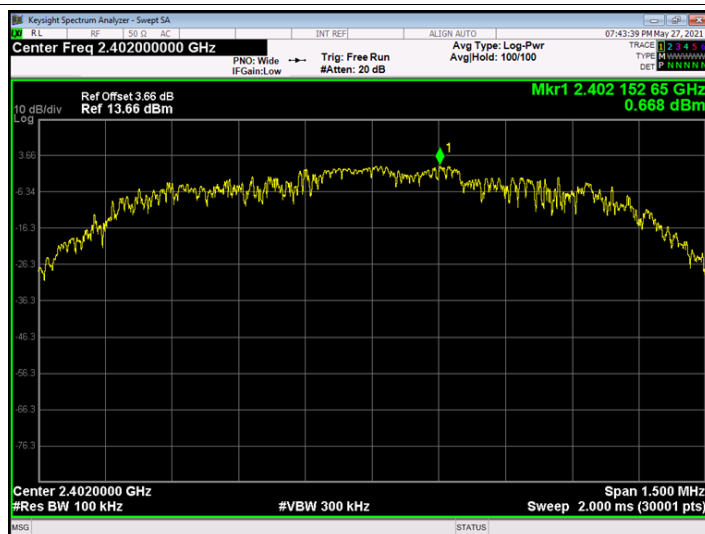
2480 MHz



Temperature:	25°C		Relative Humidity:	55%	
Test Voltage:	AC 120V/60 Hz				
Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
8DPSK	2402	Ant1	-49.02	-20	Pass
8DPSK	2442	Ant1	-49.9	-20	Pass
8DPSK	2480	Ant1	-49.5	-20	Pass
Remark:	The EUT is programmed in continuously transmitting mode				

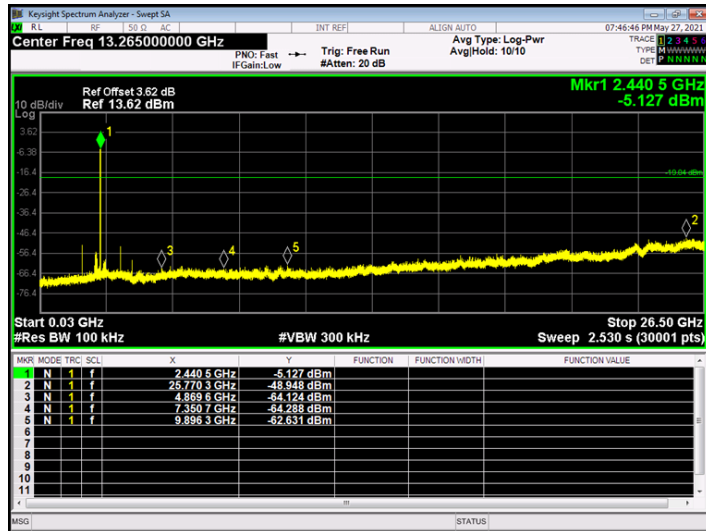
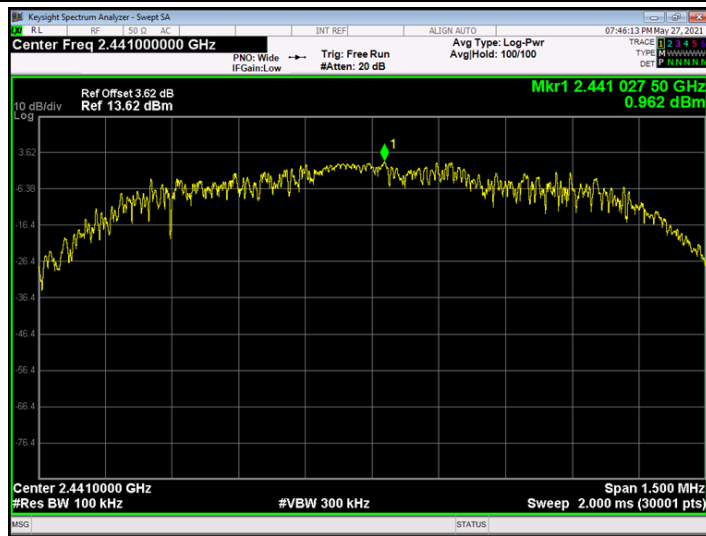
8DPSK Mode

2402 MHz



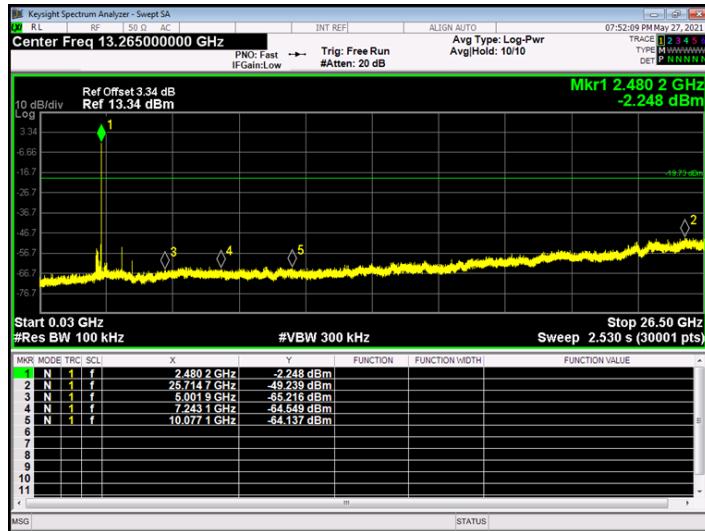
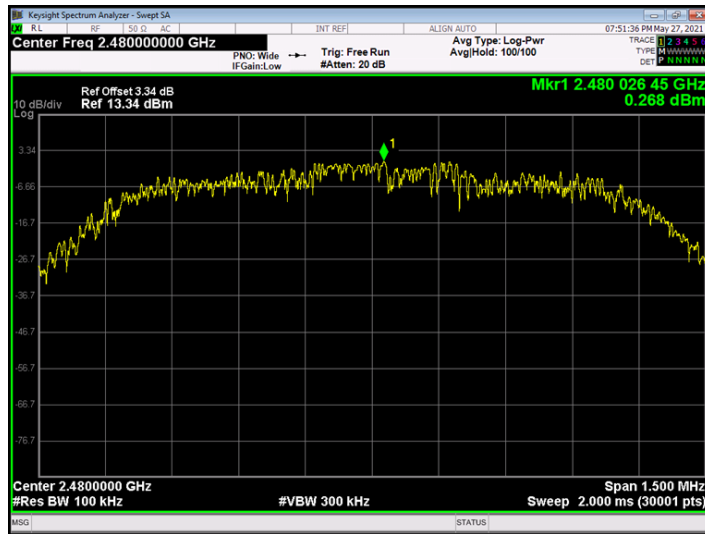
8DPSK Mode

2441 MHz



8DPSK Mode

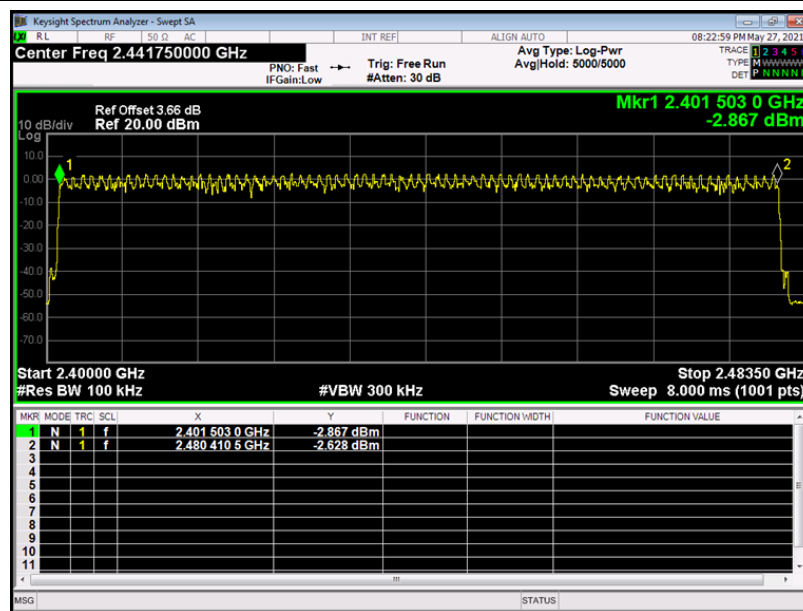
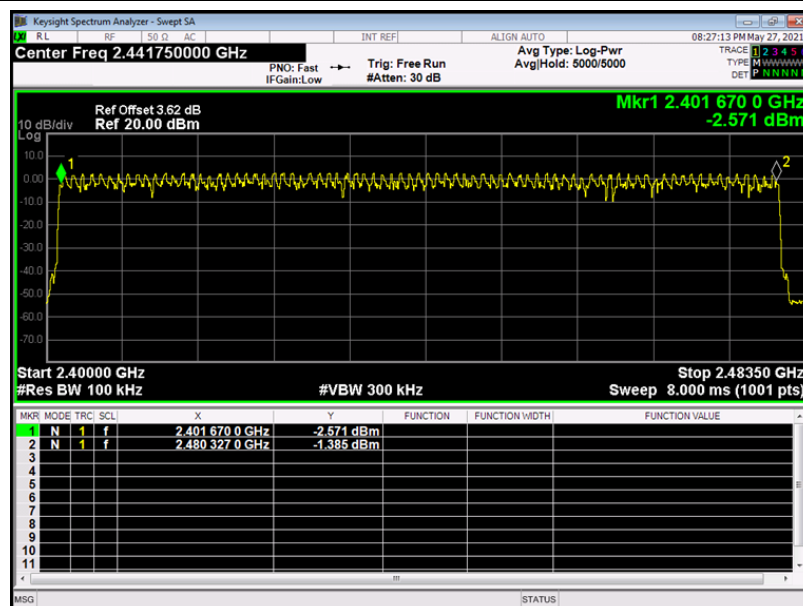
2480 MHz



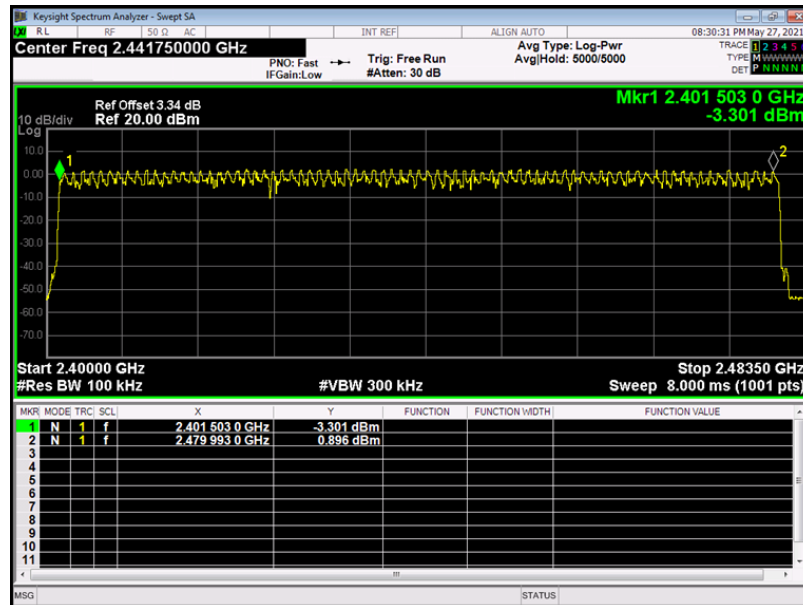
Attachment E-- Number of Hopping Channel Test Data

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	Hopping Mode		
Frequency Range	Test Mode	Quantity of Hopping Channel	Limit
2402MHz~2480MHz	GFSK	79	>15
	$\pi/4$ -DQPSK	79	
	8DPSK	79	

GFSK Mode

 $\pi/4$ -DQPSK Mode

8DPSK Mode

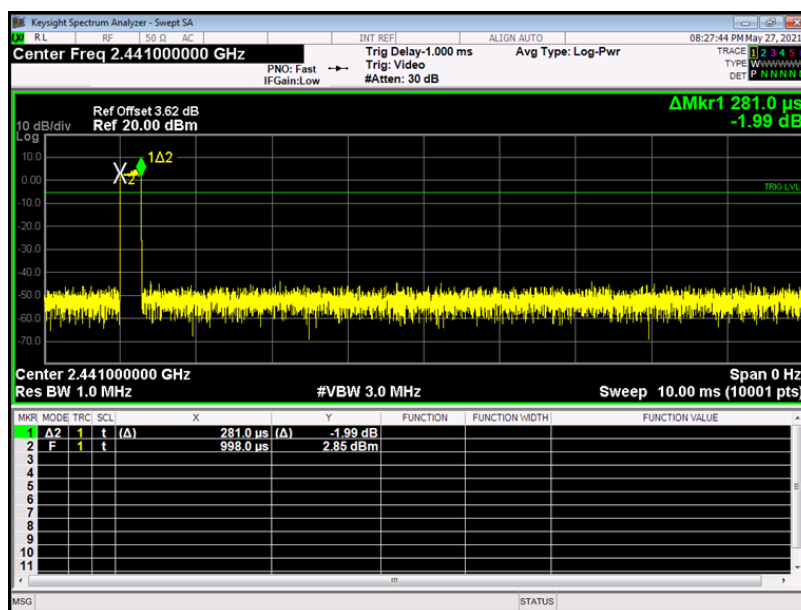


Attachment F-- Average Time of Occupancy Test Data

Temperature:		25℃		Relative Humidity:		55%
Test Voltage:		AC 120V/60 Hz				
Test Mode:		Hopping Mode (GFSK)				
Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result
1DH1	2441	0.281	89.92	31.60	400	PASS
1DH3	2441	1.632	261.12	31.60	400	PASS
1DH5	2441	2.879	307.093	31.60	400	PASS
1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79						
1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79						
1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79						

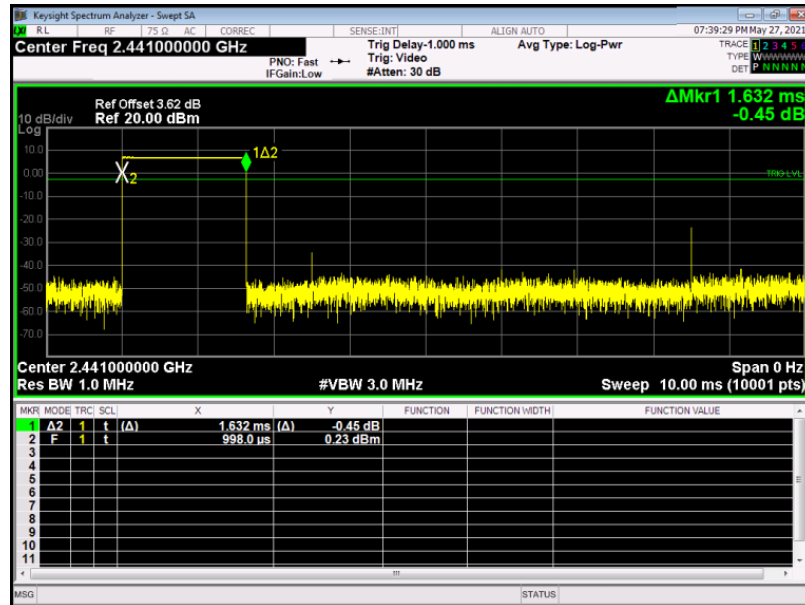
GFSK Hopping Mode 1DH1

2441 MHz



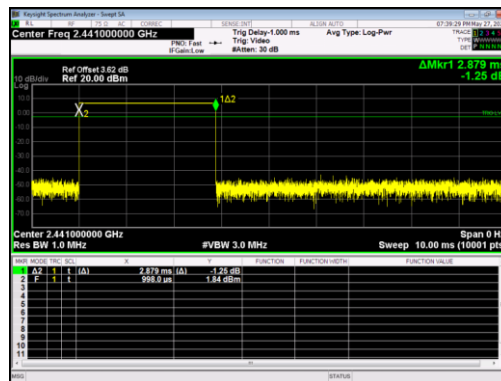
GFSK Hopping Mode 1DH3

2441 MHz

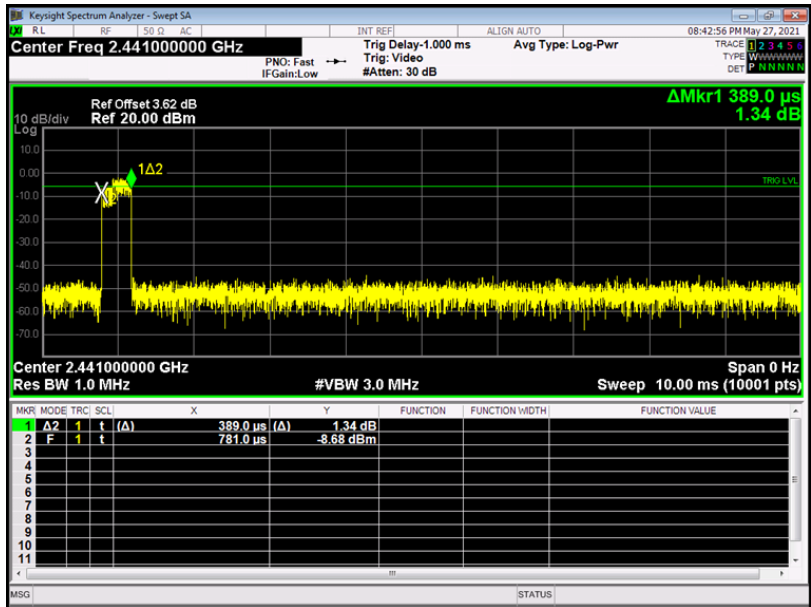


GFSK Hopping Mode 1DH5

2441 MHz



Temperature:		25℃		Relative Humidity:		55%	
Test Voltage:		AC 120V/60 Hz					
Test Mode:		Hopping Mode (π /4-DQPSK)					
Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result	
2DH1	2441	0.389	124.48	31.60	400	PASS	
2DH3	2441	1.641	262.56	31.60	400	PASS	
2DH5	2441	2.889	308.16	31.60	400	PASS	
2DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79							
2DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79							
2DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79							
π /4-DQPSK Hopping Mode 2DH1							
2441 MHz							



Keysight Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Trig Delay-1.000 ms

Trig: Video

#Atten: 30 dB

Ref Offset 3.62 dB

Ref 20.00 dBm

ΔMkr1 389.0 μs

1.34 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 10.00 ms (10001 pts)

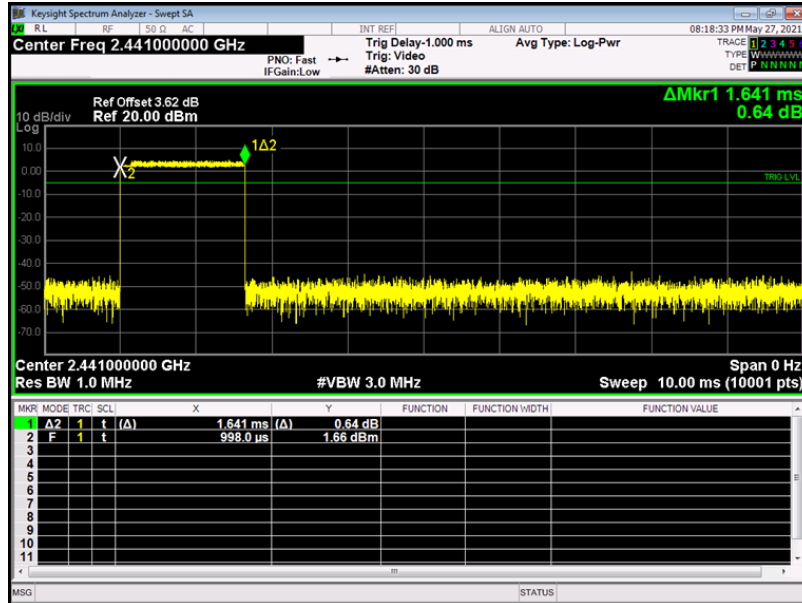
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	389.0 μs (Δ)	1.34 dB		
2	F	1	t		781.0 μs	-8.68 dBm		
3								
4								
5								
6								
7								
8								
9								
10								
11								

MSG

STATUS

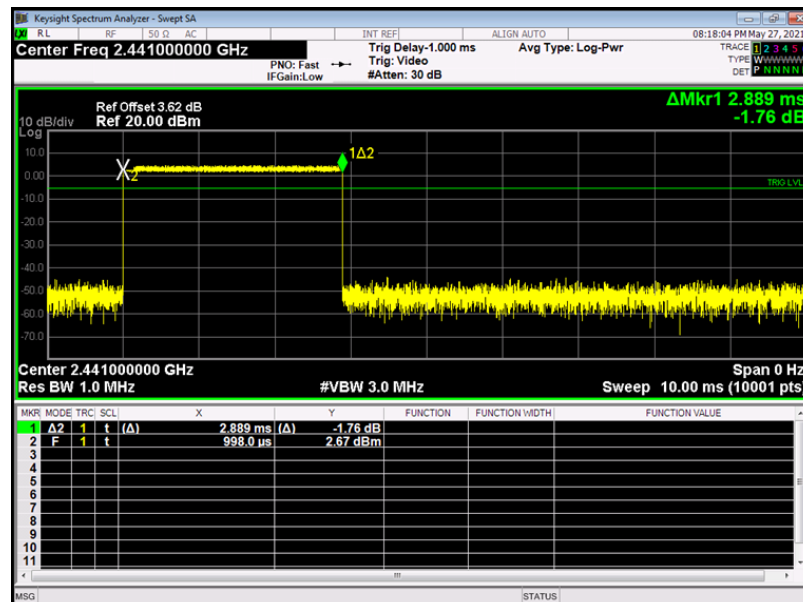
$\pi/4$ -DQPSK Hopping Mode 2DH3

2441 MHz

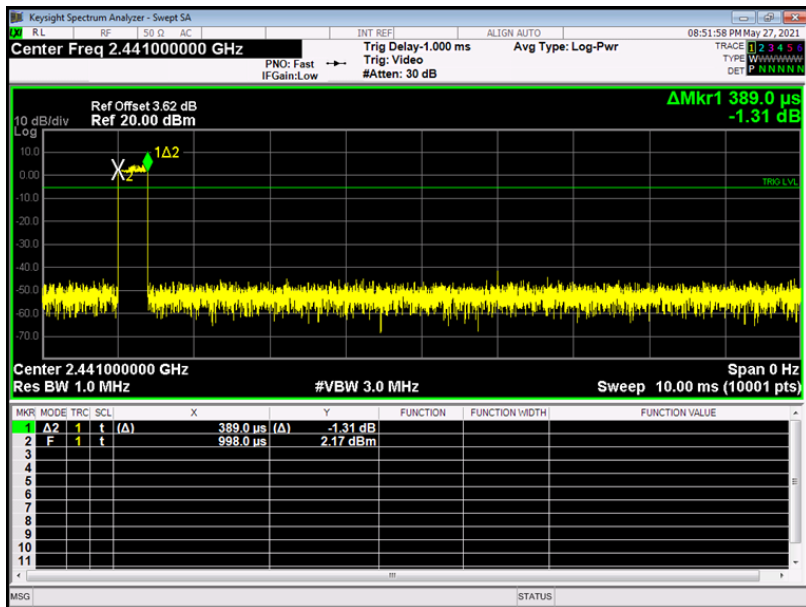


$\pi/4$ -DQPSK Hopping Mode 2DH5

2441 MHz



Temperature:		25℃		Relative Humidity:		55%	
Test Voltage:		AC 120V/60 Hz					
Test Mode:		Hopping Mode (8DPSK)					
Test Mode	Channel (MHz)	Pulse Time (ms)	Total of Dwell (ms)	Period Time (s)	Limit (ms)	Result	
3DH1	2441	0.389	124.48	31.60	400	PASS	
3DH3	2441	1.641	262.56	31.60	400	PASS	
3DH5	2441	2.891	308.373	31.60	400	PASS	
1DH1 Total of Dwell= Pulse Time*(1600/2)*31.6/79							
1DH3 Total of Dwell= Pulse Time*(1600/4)*31.6/79							
1DH5 Total of Dwell= Pulse Time*(1600/6)*31.6/79							
8DPSK Hopping Mode 3DH1							
2441 MHz							



Center Freq 2.441000000 GHz

Ref Offset 3.62 dB

Ref 20.00 dBm

ΔMkr1 389.0 μs

-1.31 dB

Center 2.441000000 GHz

Res BW 1.0 MHz

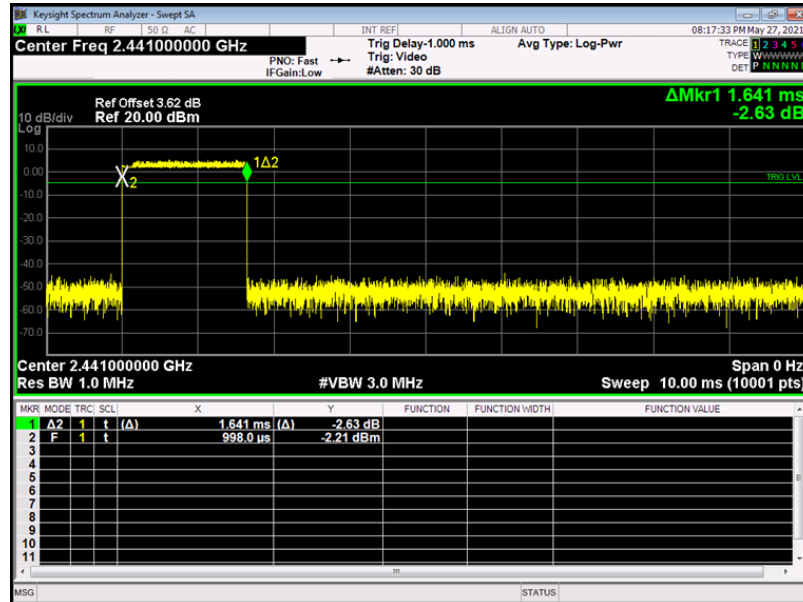
#VBW 3.0 MHz

Sweep 10.00 ms (10001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	t	(Δ)	389.0 μs	(Δ)	-1.31 dB	
2	F	1	t		998.0 μs		2.17 dBm	

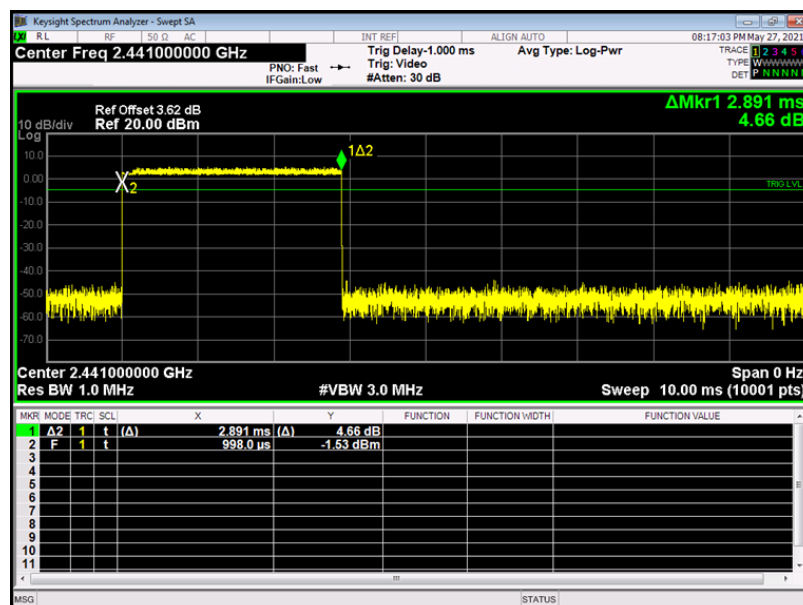
8DPSK Hopping Mode 3DH3

2441 MHz

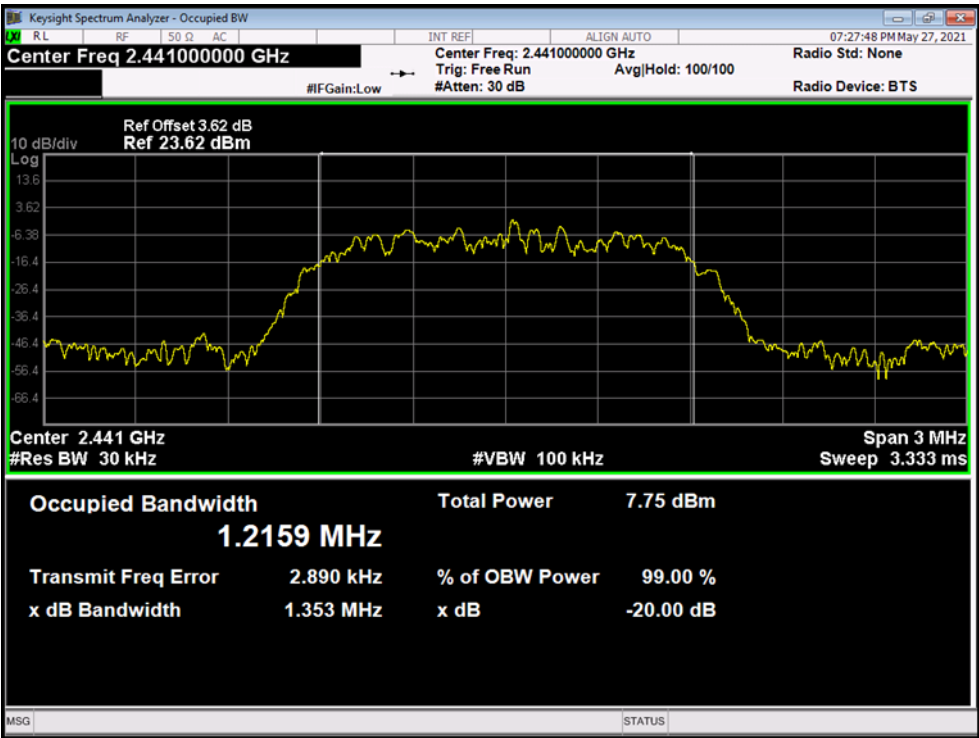


8DPSK Hopping Mode 3DH5

2441 MHz



Attachment G-- Channel Separation and Bandwidth Test Data

Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX Mode (GFSK)		
Channel frequency (MHz)	99% OBW (kHz)	20dB Bandwidth (kHz)	20dB Bandwidth *2/3 (kHz)
2402	1215.9	1353	0.886
2441	1156.4	1334	0.889
2480	1140.8	1278	0.852
GFSK TX Mode			
2402 MHz			
 Keysight Spectrum Analyzer - Occupied BW Center Freq 2.441000000 GHz Center Freq: 2.441000000 GHz Trig: Free Run #Atten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS Ref Offset 3.62 dB Ref 23.62 dBm 10 dB/div Log Center 2.441 GHz #Res BW 30 kHz #VBW 100 kHz Span 3 MHz Sweep 3.333 ms Occupied Bandwidth 1.2159 MHz Total Power 7.75 dBm Transmit Freq Error 2.890 kHz % of OBW Power 99.00 % x dB Bandwidth 1.353 MHz x dB -20.00 dB			

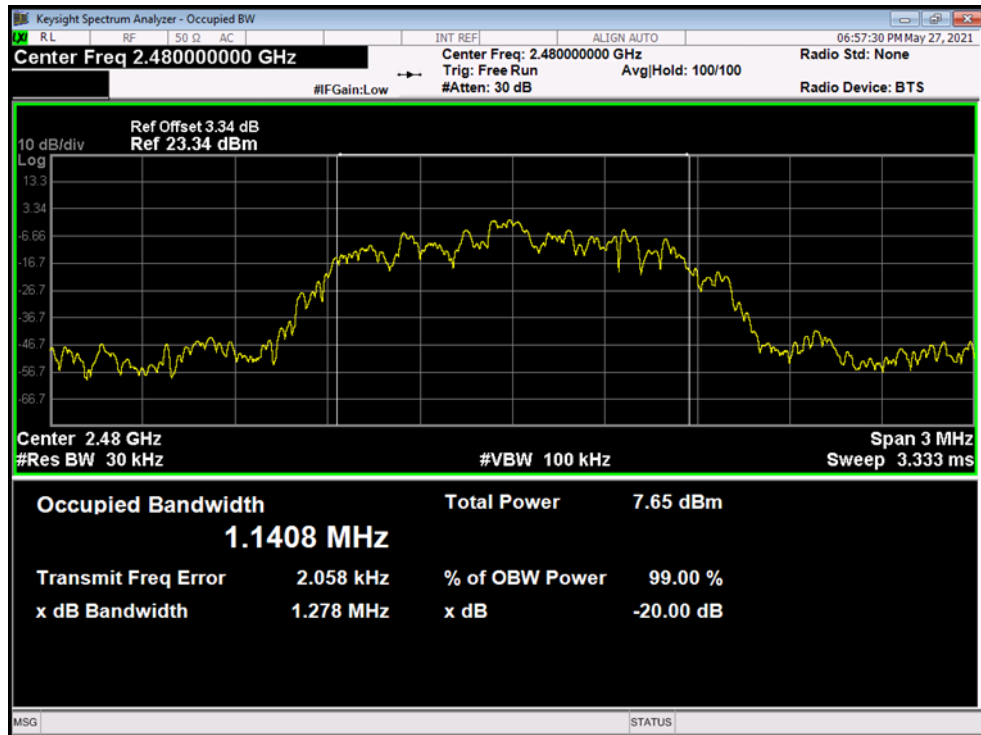
GFSK TX Mode

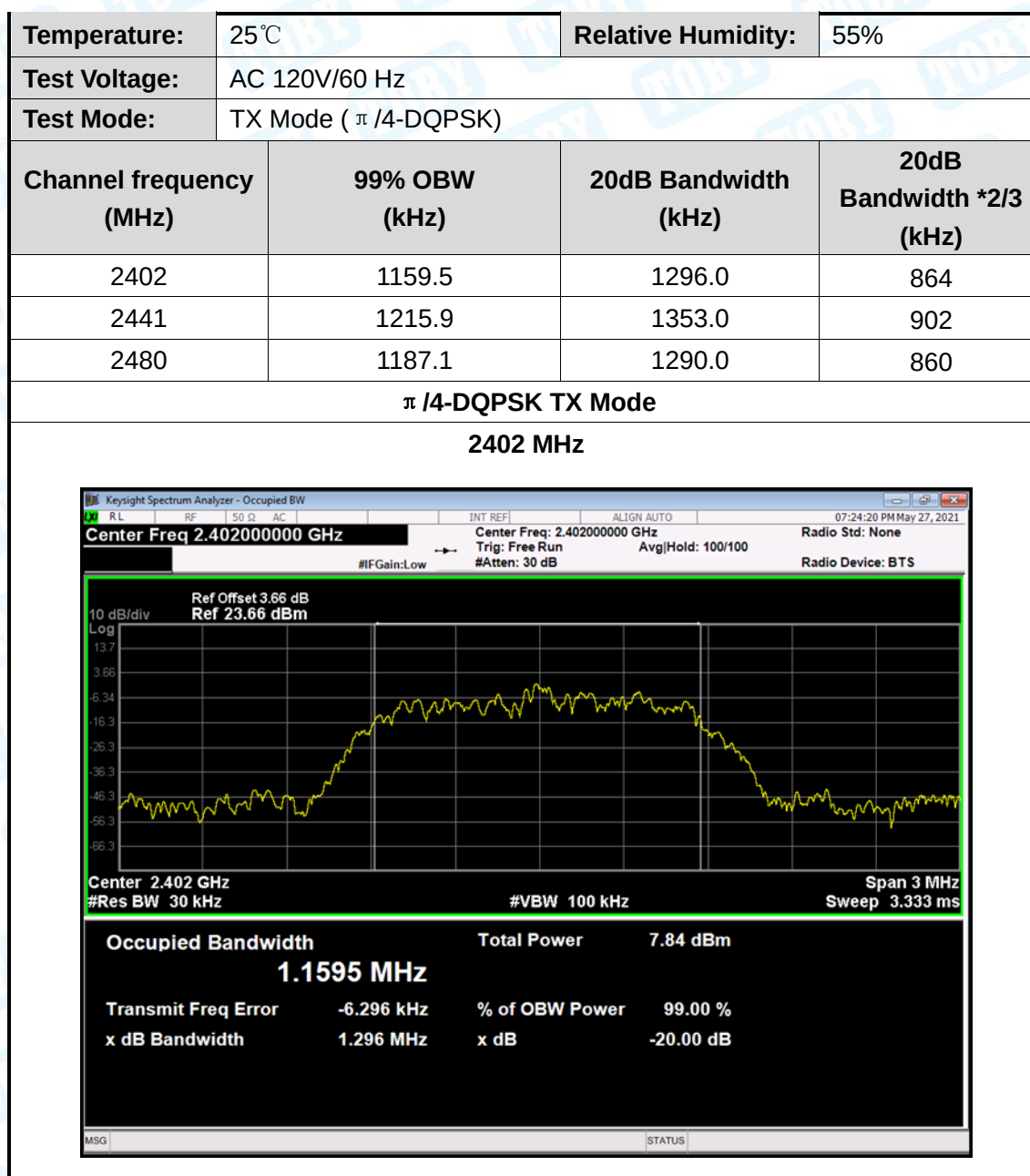
2441 MHz



GFSK TX Mode

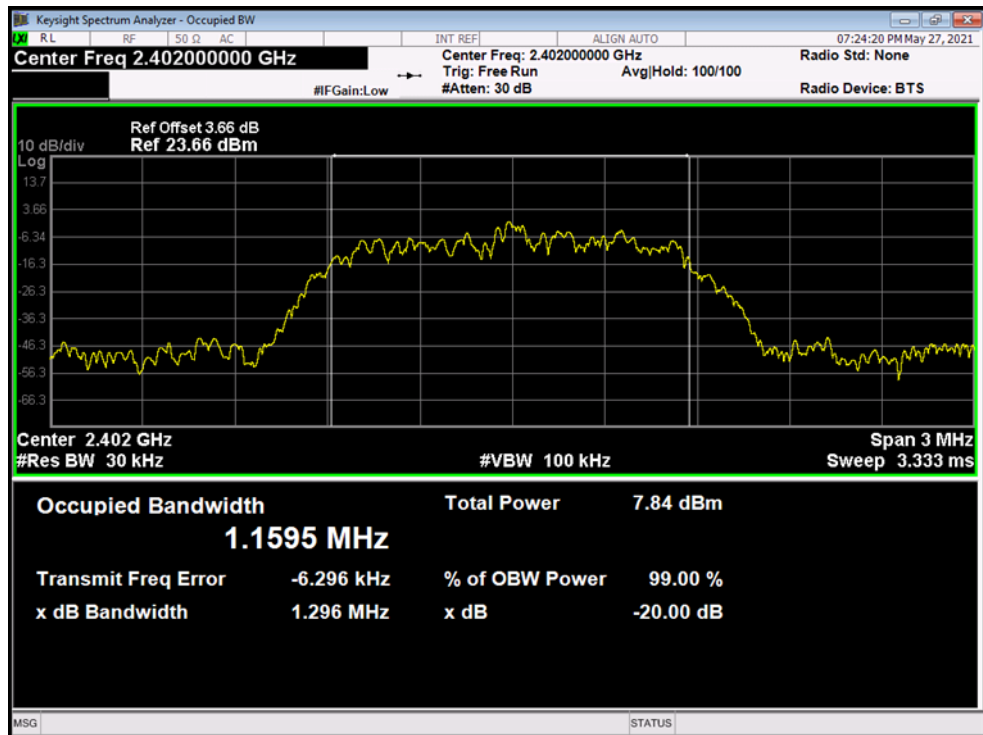
2480 MHz



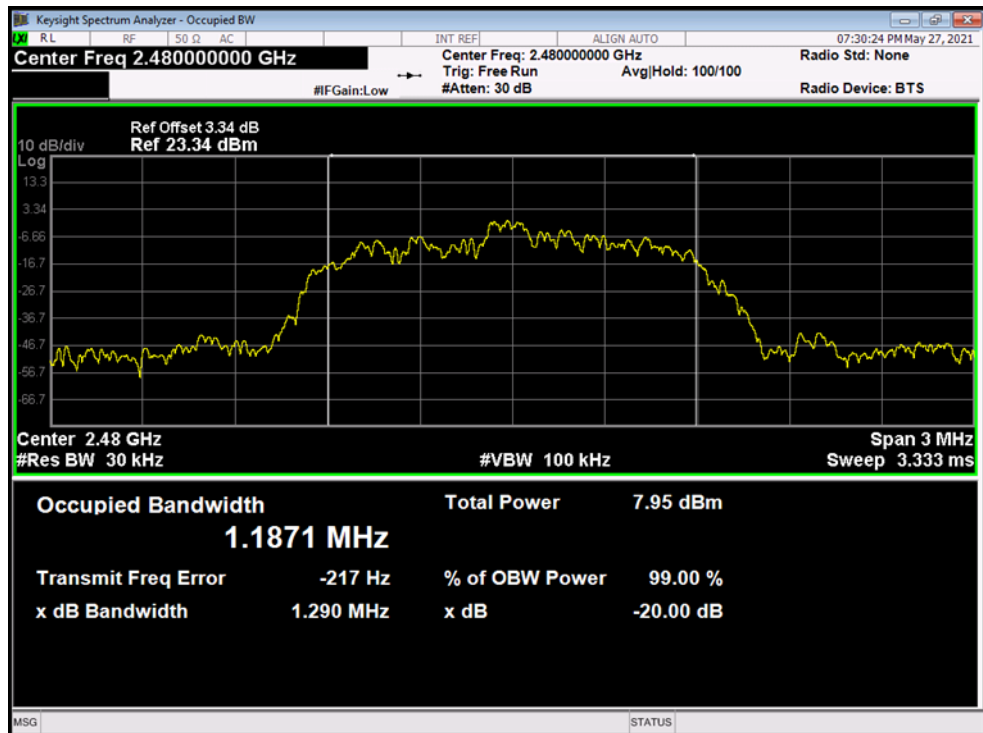


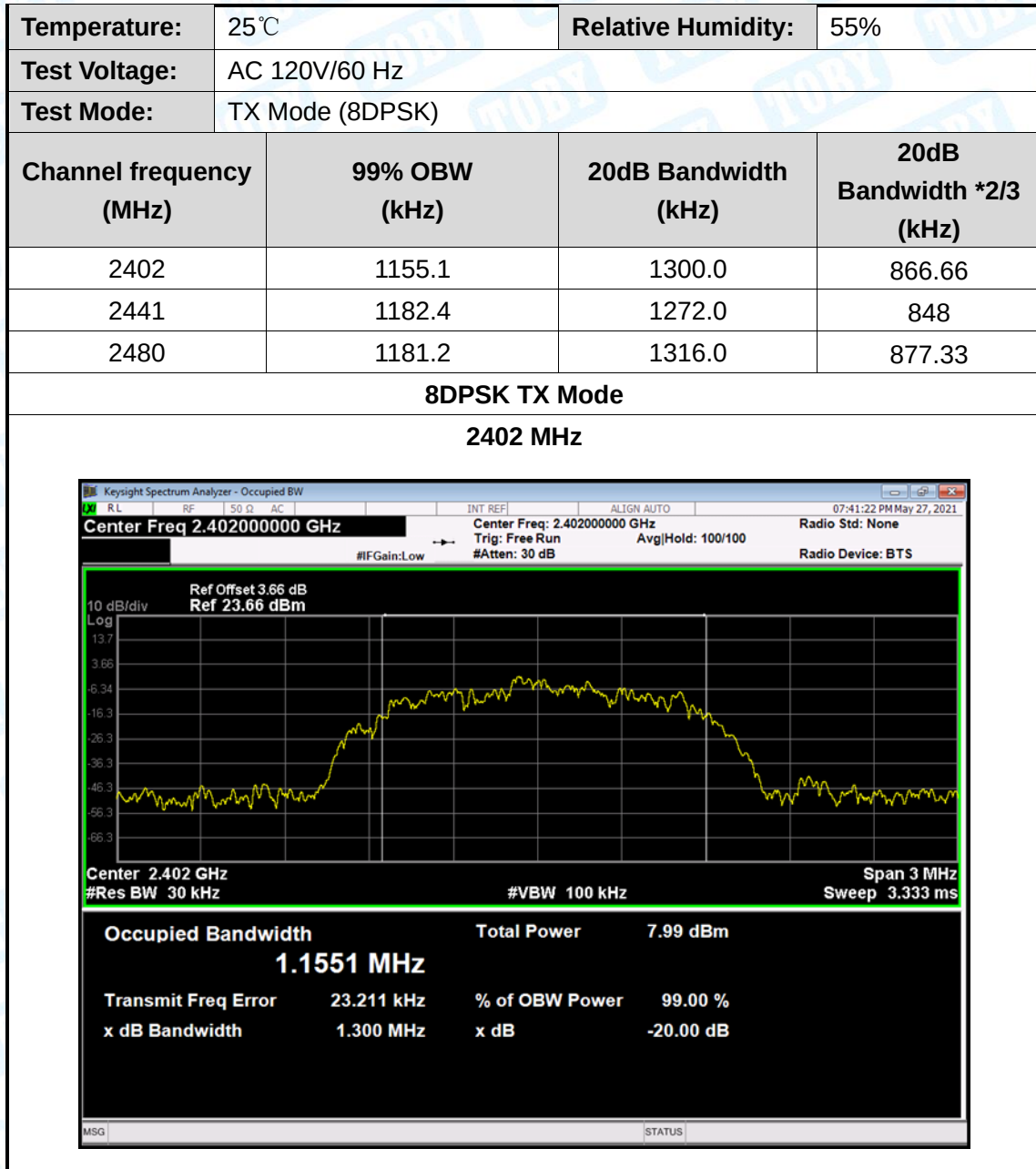
π /4-DQPSK TX Mode

2441 MHz

 π /4-DQPSK TX Mode

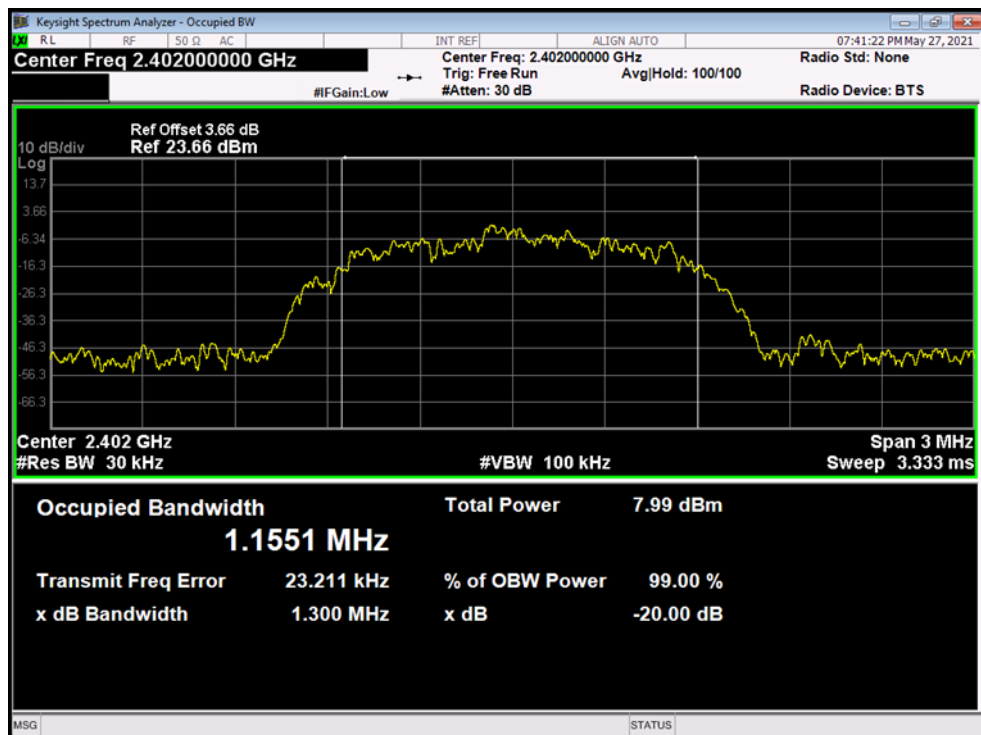
2480 MHz





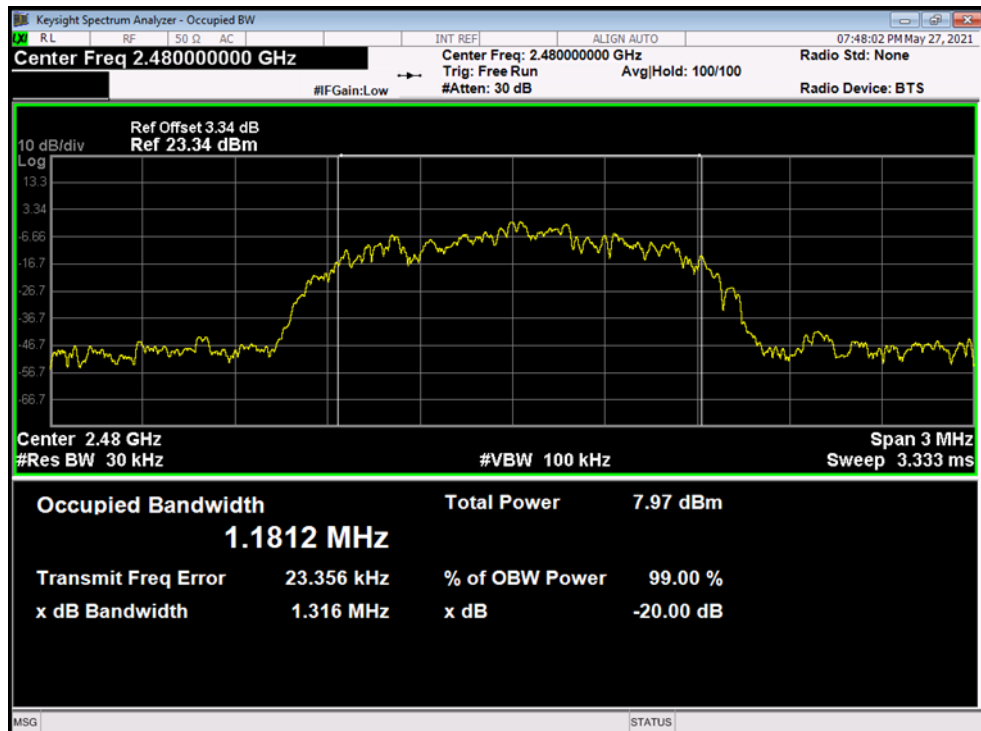
8DPSK TX Mode

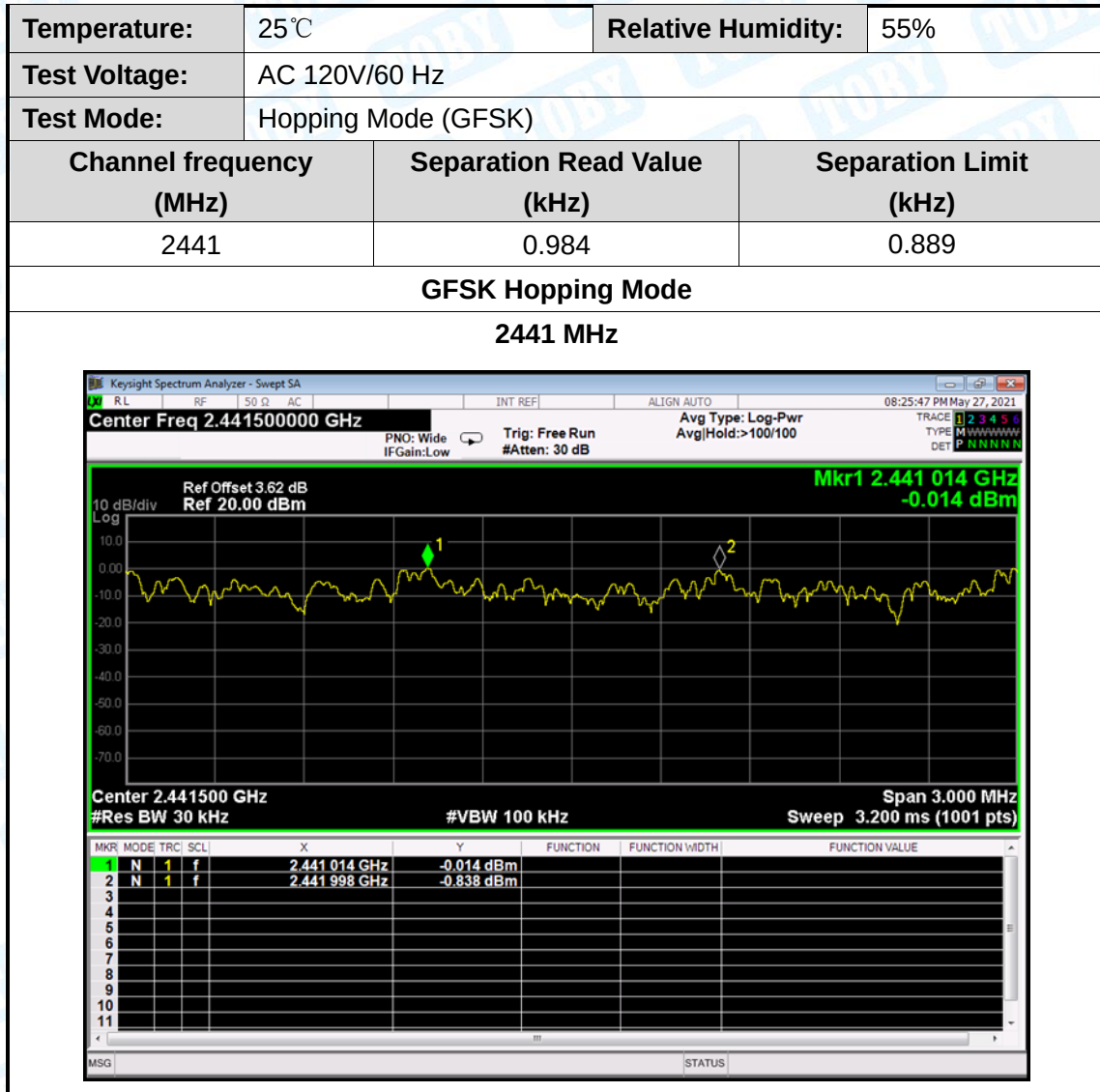
2441 MHz

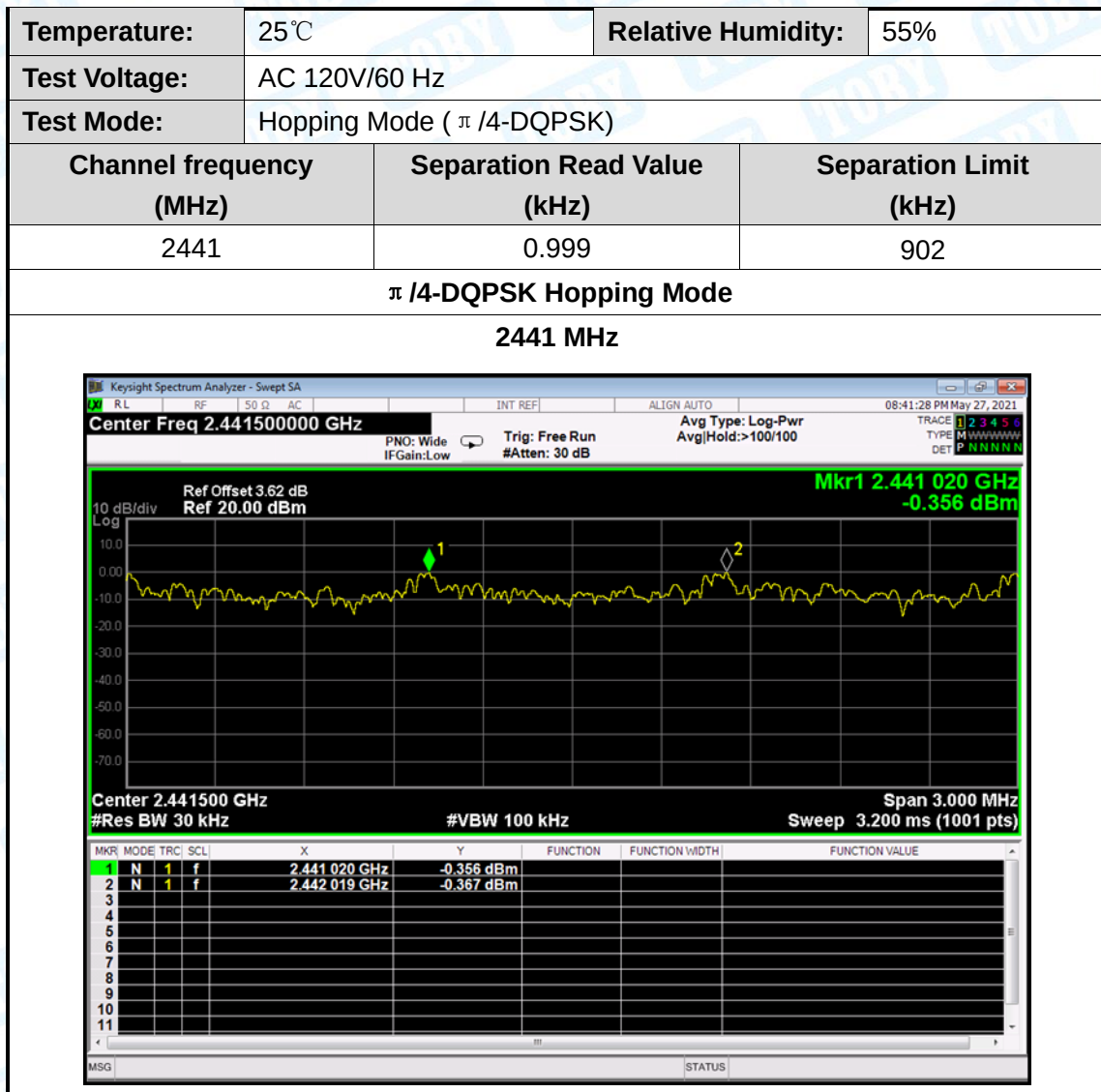


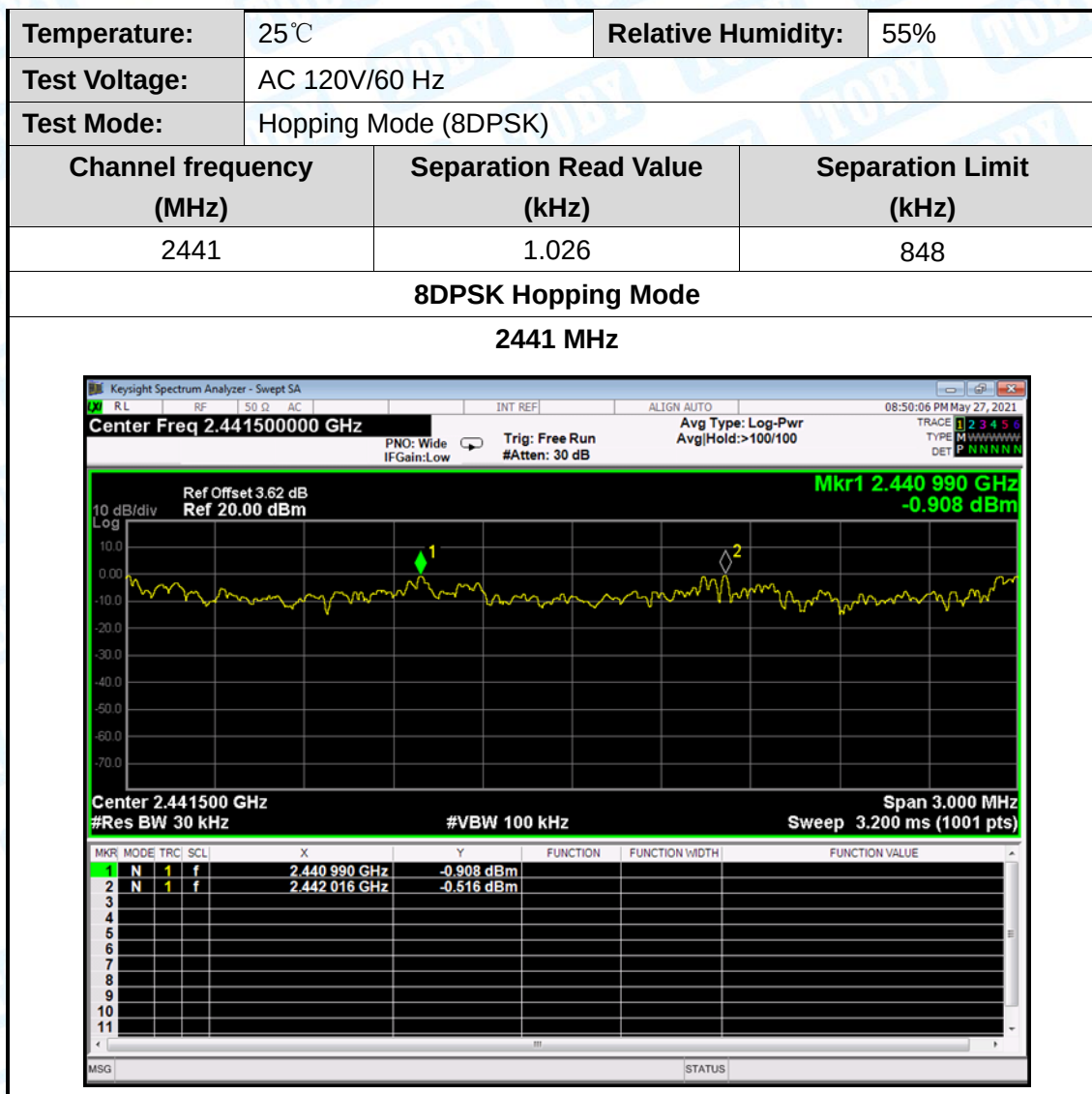
8DPSK TX Mode

2480 MHz







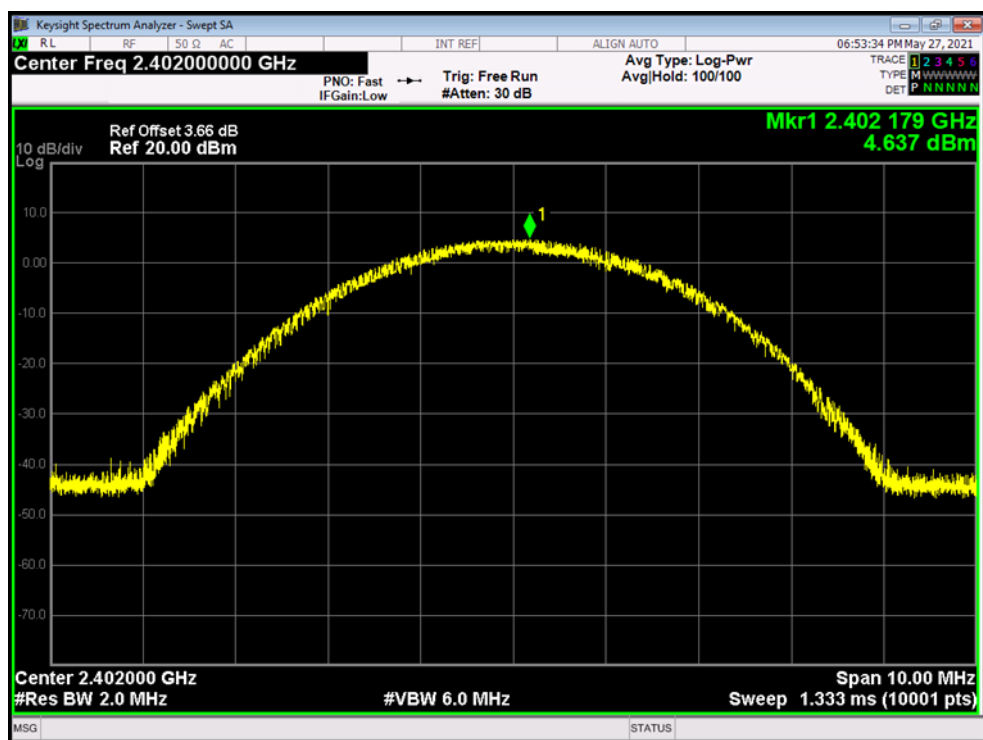


Attachment H-- Peak Output Power Test Data

Temperature:	25℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX Mode (GFSK)		
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
2402	4.637	21	
2441	5.089		
2480	4.514		

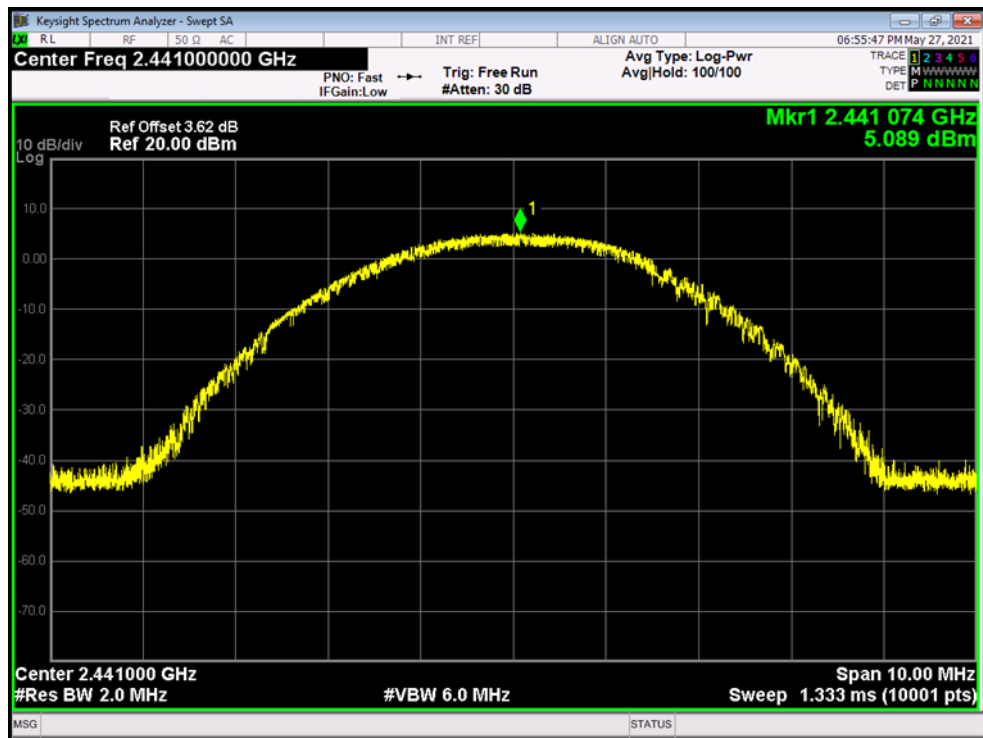
GFSK TX Mode

2402 MHz



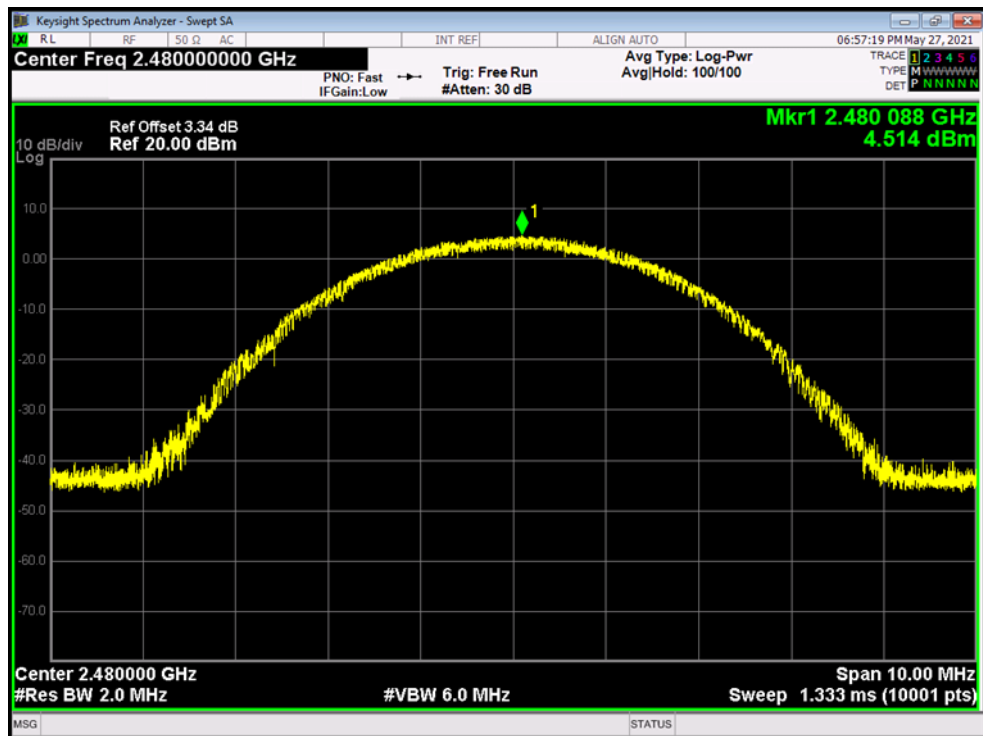
GFSK TX Mode

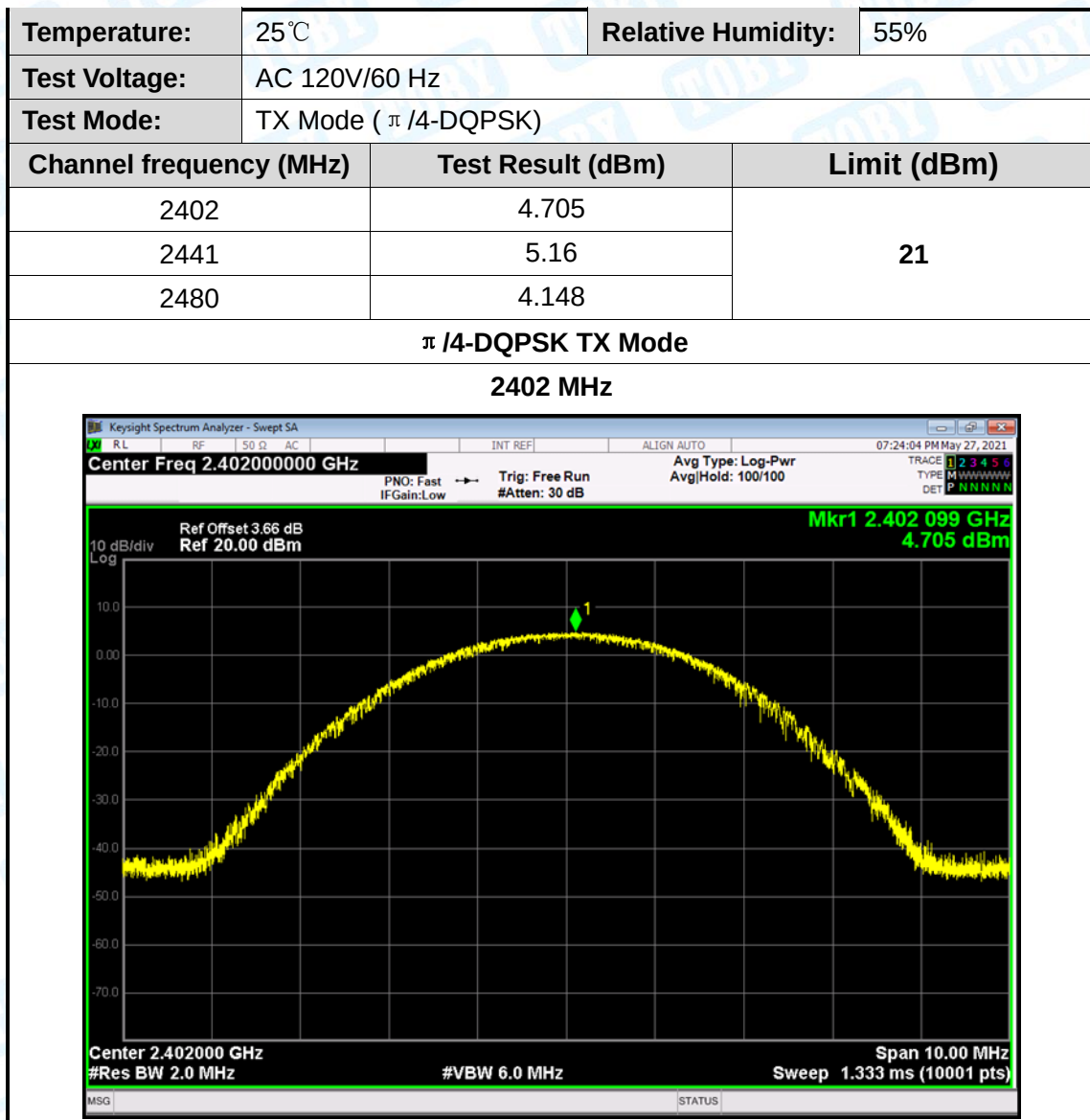
2441 MHz



GFSK TX Mode

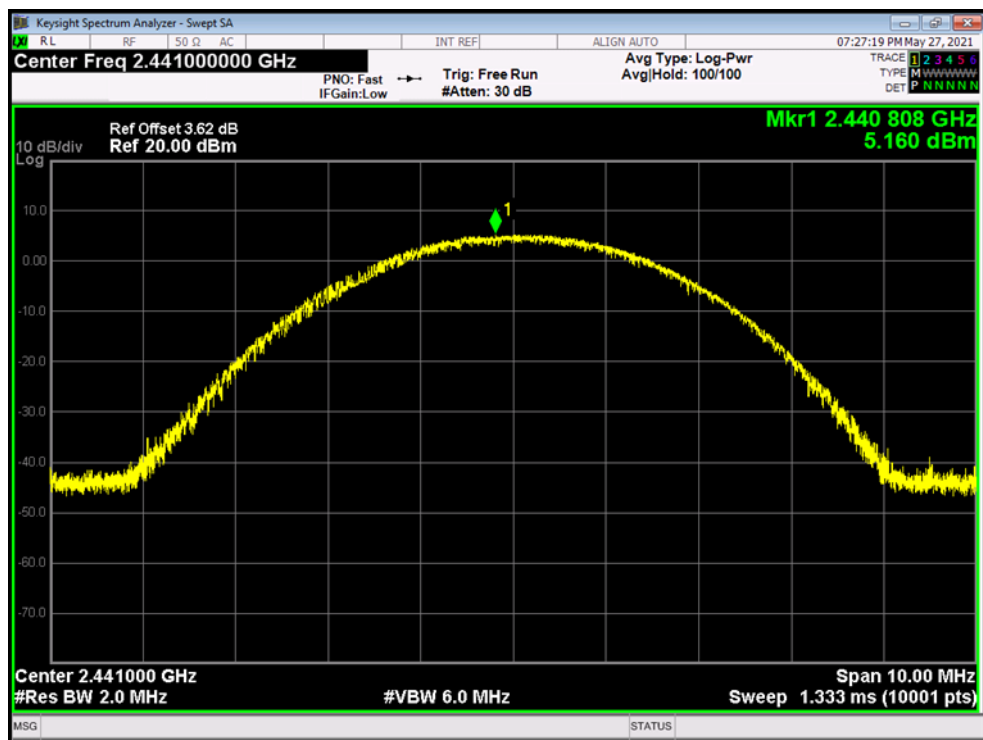
2480 MHz



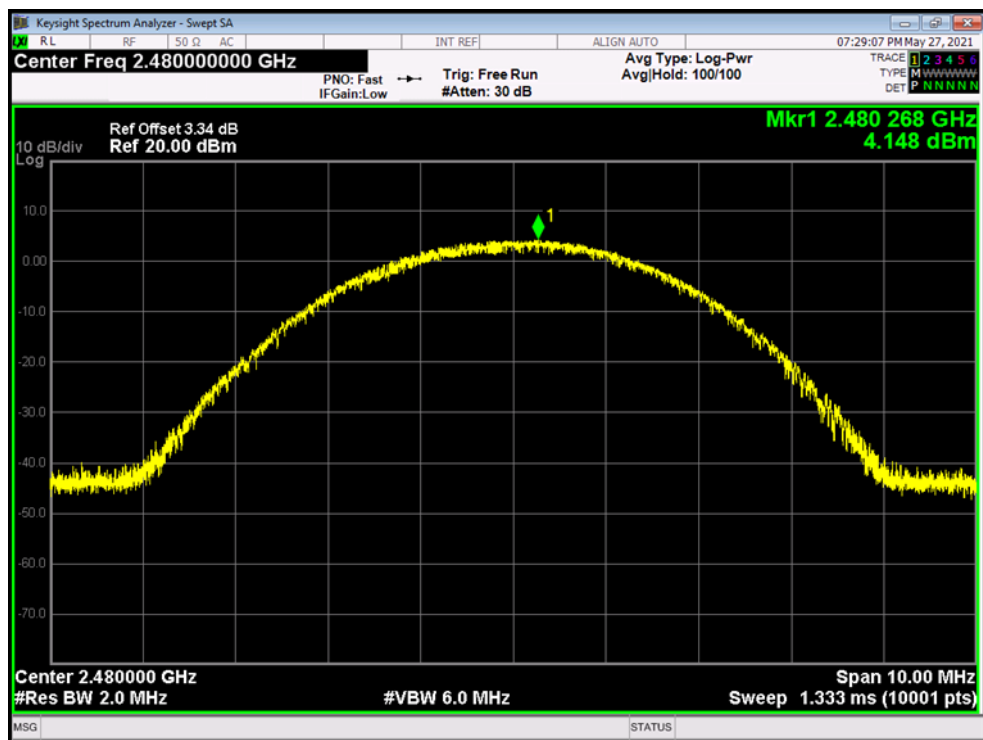


$\pi/4$ -DQPSK TX Mode

2441 MHz

 $\pi/4$ -DQPSK TX Mode

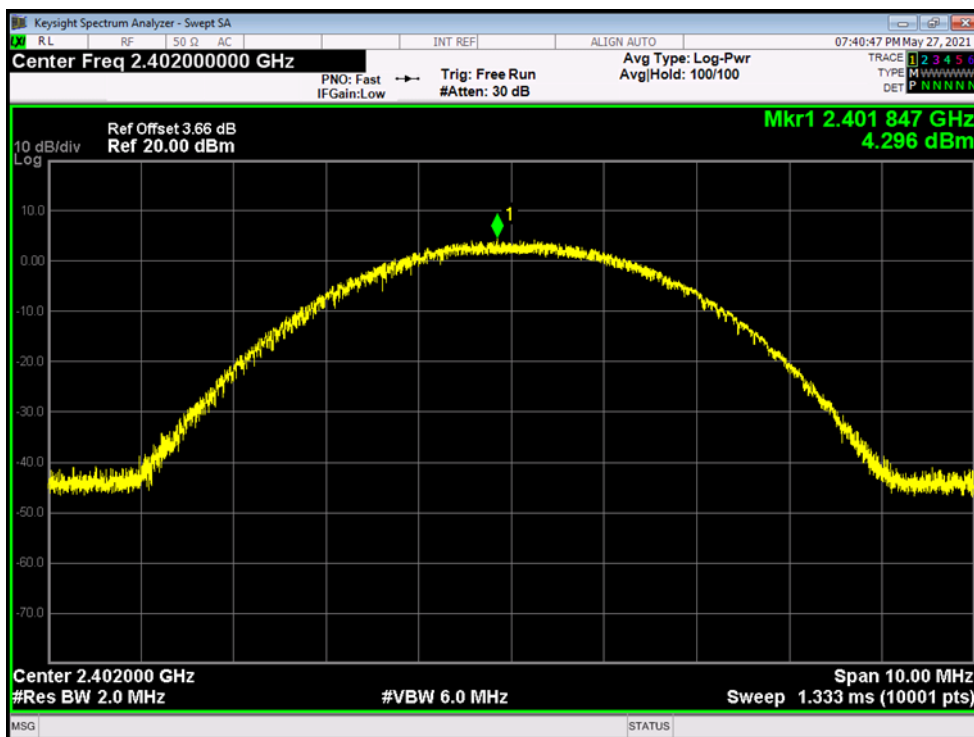
2480 MHz



Temperature:	25°C	Relative Humidity:	55%
Test Voltage:	AC 120V/60 Hz		
Test Mode:	TX Mode (8DPSK)		
Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)	
2402	4.296	21	
2441	5.831		
2480	5.166		

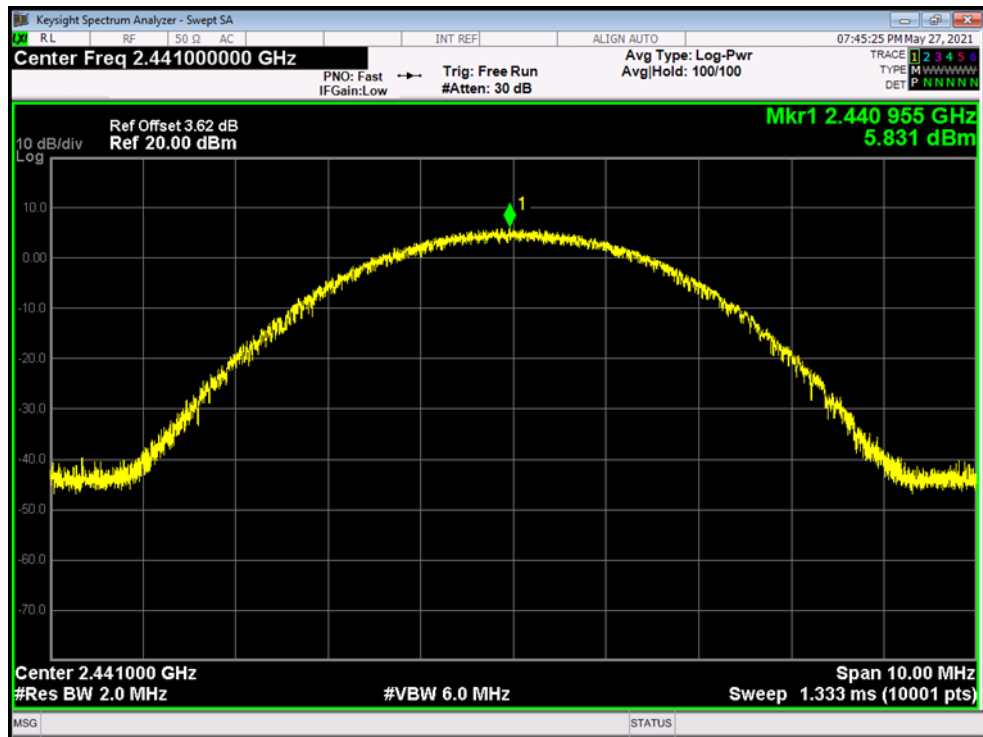
8DPSK TX Mode

2402 MHz



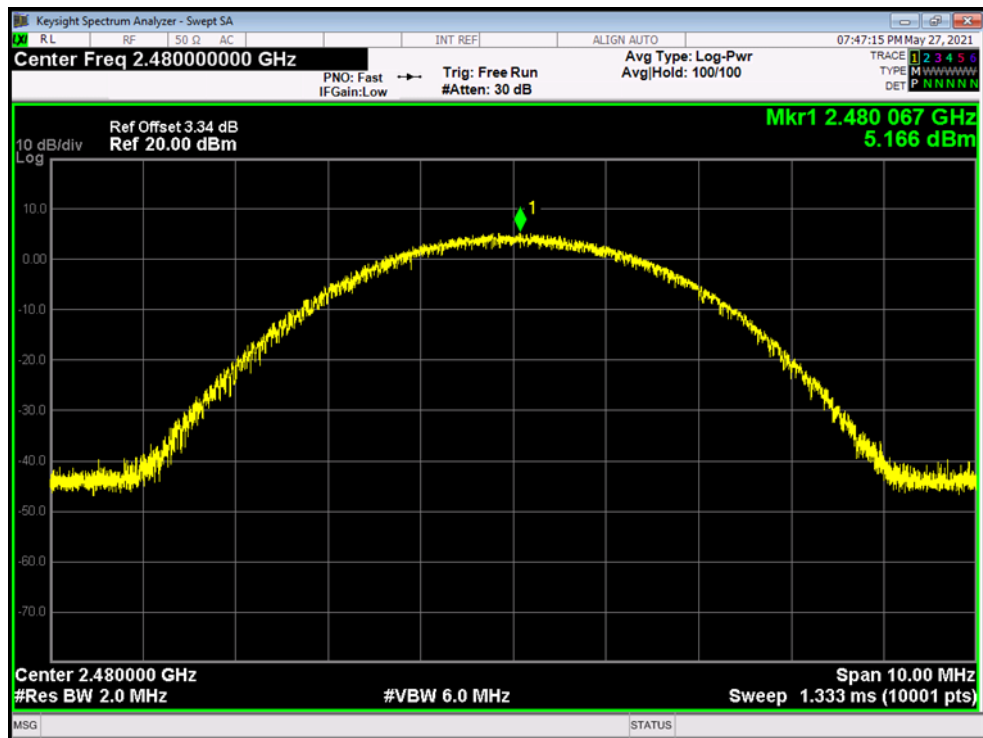
8DPSK TX Mode

2441 MHz



8DPSK TX Mode

2480 MHz



-----END OF REPORT-----