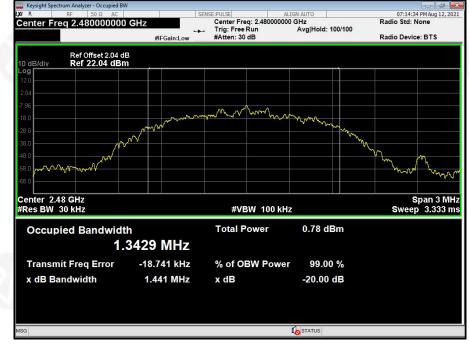




8-DPSK High Channel







8. Maximum Peak Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(1)
Test Method:	ANSI C63.10:2013
Limit:	30dBm(for GFSK), 20.97dBm(for EDR)

8.1 Block Diagram Of Test Setup

EUT	SPECTRUM
	ANALYZER

8.2 Limit

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

8.3 Test procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 2MHz. VBW = 6MHz. Sweep = auto; Detector Function = Peak.
- 3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

8.4 DEVIATION FROM STANDARD

No deviation.

8.5 Test Result

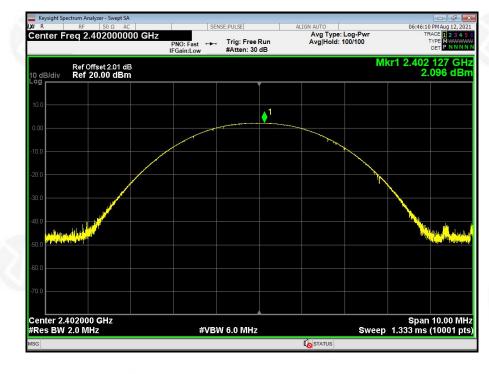
Mode	Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
	Lowest	2.096		
GFSK	Middle	0.795	30.00	Pass
	Highest	-0.380		
	Lowest	-0.566		
π/4-DQPSK	Middle	-1.947	20.97	Pass
ST.	Highest	-2.971		
	Lowest	-1.544		
8-DPSK	Middle	-2.962	20.97	Pass
	Highest	-4.060		







Test plots GFSK Low Channel







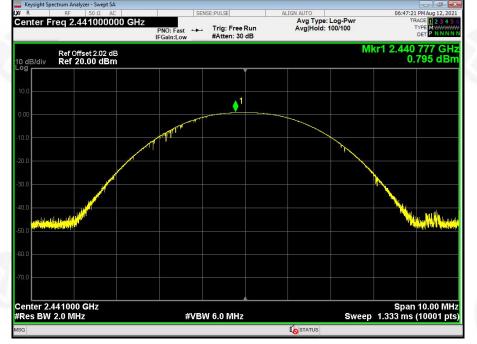




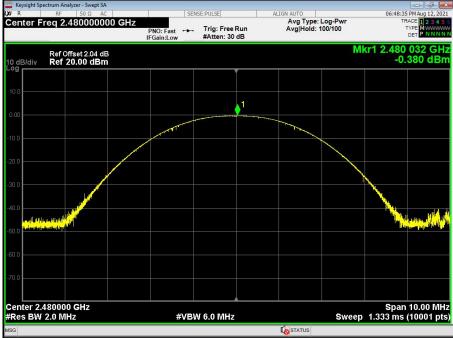




GFSK Middle Channel

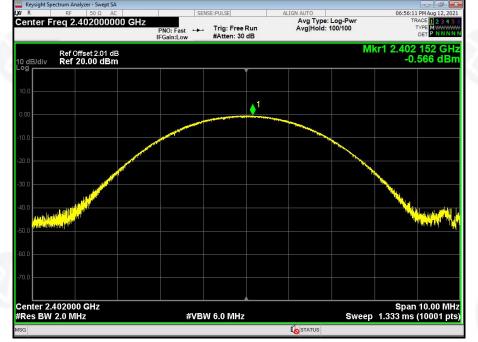


GFSK High Channel

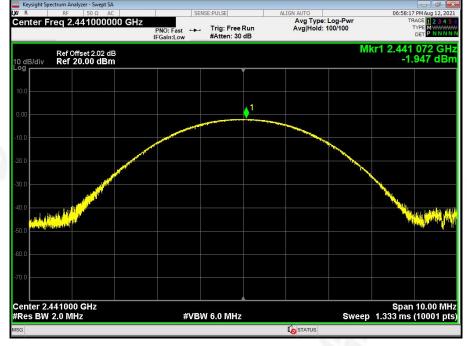




π/4-DQPSK Low Channel



π/4-DQPSK Middle Channel



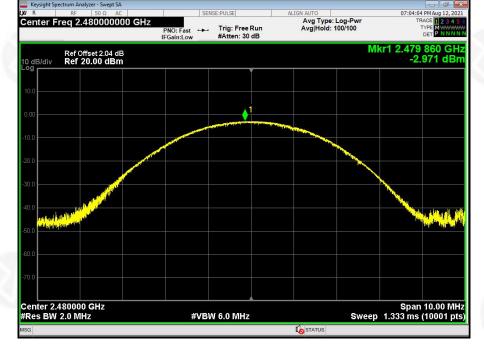
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π/4-DQPSK High Channel





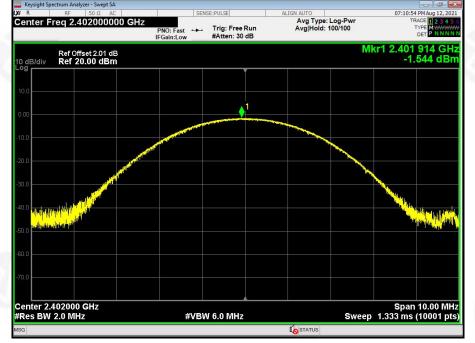




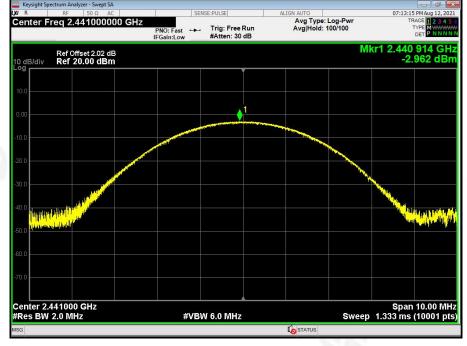




8-DPSK Low Channel



8-DPSK Middle Channel

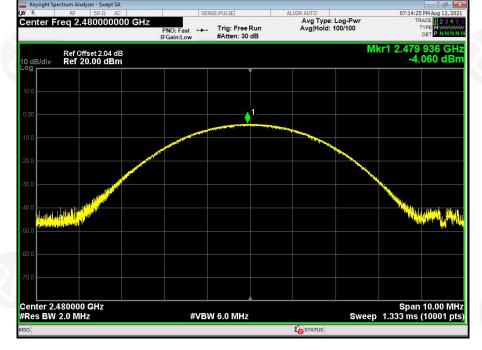




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8-DPSK High Channel

















9. HOPPING CHANNEL SEPARATION

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=30KHz, VBW=100KHz, detector=Peak
Limit:	GFSK: 20dB bandwidth $\pi/4$ -DQPSK & 8DSK: 0.025MHz or 2/3 of the 20dB bandwidth (whichever is greater)

9.1 Test Setup

UT	SPECTRUM
	ANALYZER

9.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port

to the spectrum.

2. Set the spectrum analyzer: RBW = 30kHz. VBW = 100kHz , Span = 3.0MHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 Test Result

Modulation	Test Channel	Separation (MHz)	Limit(MHz)	Result
GFSK	Low	0.987	0.847	PASS
GFSK	Middle	0.894	0.874	PASS
GFSK	High	1.194	0.985	PASS
π/4-DQPSK	Low	0.984	0.927	PASS
π/4-DQPSK	Middle	0.996	0.943	PASS
π/4-DQPSK	High	0.996	0.945	PASS
8-DPSK	Low	0.999	0.964	PASS
8-DPSK	Middle	1.017	0.949	PASS
8-DPSK	High	1.185	0.961	PASS



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Test plots GFSK Low Channel

















GFSK Middle Channel



GFSK High Channel



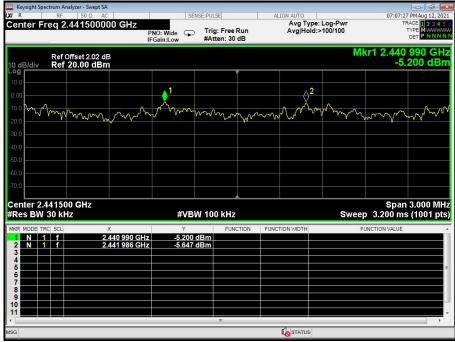




n Analyzer - Swept Sa 07:05:58 PM Aug 12 SENSE:PULSE q 2.402500000 GH Avg Type: Log-Pwr Avg|Hold:>100/100 Center F PNO: Wide Trig: Free Run IFGain:Low #Atten: 30 dB DET Mkr1 2.402 143 GHz -5.128 dBm Ref Offset 2.01 dB Ref 20.00 dBm **∂**² Center 2.402500 GHz #Res BW 30 kHz Span 3.000 MHz Sweep 3.200 ms (1001 pts) #VBW 100 kHz 2.402 143 GHz 2.402 983 GHz -5.128 dBn -4.663 dBn N 1 f N 1 f

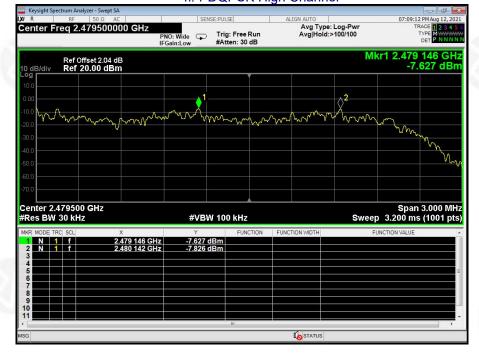
π/4-DQPSK Low Channel





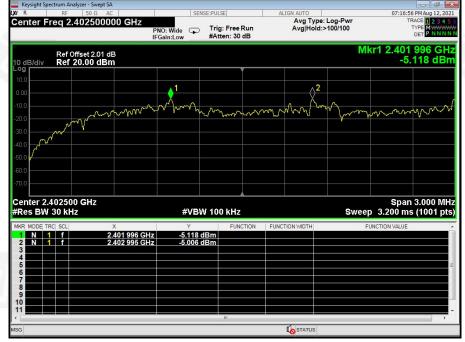


π/4-DQPSK High Channel

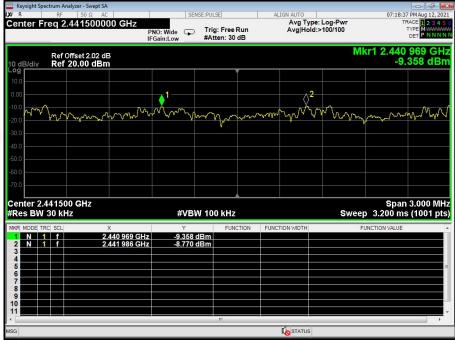




8-DPSK Low Channel



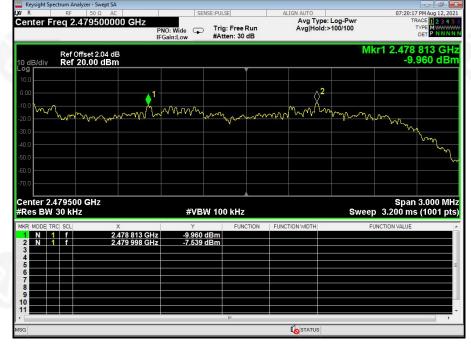
8-DPSK Middle Channel







8-DPSK High Channel













10.NUMBER OF HOPPING FREQUENCY

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=100kHz, VBW=300kHz, Frequency range=2400MHz-2483.5MHz, Detector=Peak
Limit:	15 channels

10.1 Test Setup

EUT	SPECTRUM
	ANALYZER

10.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set the spectrum analyzer: RBW = 100kHz. VBW = 300kHz. Sweep = auto; Detector Function = Peak. Trace = Max hold.

3. Allow the trace to stabilize. It may prove necessary to break the span up to sections. in order to clearly show all of the hopping frequencies. The limit is specified in one of the subparagraphs of this Section.

4. Set the spectrum analyzer: Start Frequency = 2.4GHz, Stop Frequency = 2.4835GHz. Sweep=auto;

10.3 DEVIATION FROM STANDARD

No deviation.

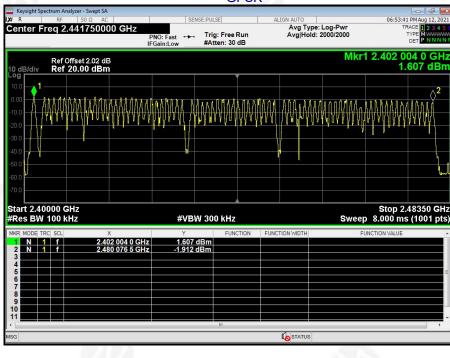
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🔀 zkt@zkt-lab.com





π/4-DQPSK

					- d 🗙
RF 50 Ω AC		E:PULSE	ALIGN AUTO		07:07:58 PM Aug 12, 2021
nter Freq 2.441750000 GHz	PNO: Fast +++ IFGain:Low	Trig: Free Run #Atten: 30 dB		e: Log-Pwr : 2000/2000	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N
Ref Offset 2.02 dB B/div Ref 20.00 dBm				Mkr1 2	.401 503 0 GHz -6.863 dBm
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)					
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rt 2.40000 GHz es BW 100 kHz MODE TRC SCL X	Y	FUNCTION	FUNCTION WIDTH		
rt 2.40000 GHz es BW 100 kHz	۲ GHz -6.863 dE	FUNCTION	FUNCTION WIDTH		
rt 2.40000 GHz 25 BW 100 kHz MODE TRC SCL X N 1 f 2.401 503 0 0	Y GHz -6.863 dE	FUNCTION	FUNCTION WIDTH		3.000 ms (1001 pts)
rt 2.40000 GHz 25 BW 100 kHz MODE TRC SCL X N 1 f 2.401 503 0 0	Y GHz -6.863 dE	FUNCTION	FUNCTION WIDTH		3.000 ms (1001 pts)
rt 2.40000 GHz 25 BW 100 kHz MODE TRC SCL X N 1 f 2.401 503 0 0	Y GHz -6.863 dE	FUNCTION	FUNCTION WIDTH		3.000 ms (1001 pts)

8-DPSK

			-			
Keysight Spectrum Analyz	zer - Swept SA					
R RF	50 Ω AC	SENSE	:PULSE	ALIGN AUTO		07:19:12 PM Aug 12, 20
enter Freq 2.44	41750000 GHz		Trig: Free Run #Atten: 30 dB		e: Log-Pwr d: 2000/2000	TRACE 1 2 3 4 TYPE MWWW DET P NNN
dB/div Ref 20	set 2.02 dB 0.00 dBm				Mkr1	2.401 503 0 GH -8.297 dBi
	rallandanadari 	adeanyyyyyyyy	wayaharan Andraha	MALAAAAAA	WWWWW	
art 2.40000 GH		#\/B\A(300 kHz		Sween	Stop 2.48350 GH 8.000 ms (1001 pt
es BW 100 kH	Z	#VD9V			Oncep	
	z X	#VDW	FUNCTION	FUNCTION WIDTH		CTION VALUE
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	× 2.401 503 0 GH	Y -8.297 dB	FUNCTION	FUNCTION WIDTH		





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11. DWELL TIME

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)(iii)
Test Method:	ANSI C63.10:2013
Receiver setup:	RBW=1MHz, VBW=3MHz, Span=0Hz, Detector=Peak
Limit:	0.4 Second

11.1 Test Setup

EUT	SPECTRUM
	ANALYZER

11.2 Test procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.

2. Set spectrum analyzer span = 0Hz;

3. Set RBW = 1MHz and VBW = 3MHz.Sweep = as necessary to capture the entire dwell time per hopping channel. Set the EUT for DH5, DH3 and DH1 packet transmitting.

4. Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

11.3 DEVIATION FROM STANDARD

No deviation.

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11.4 Test Result

GFSK mode:

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	DH1	124.48	400	Pass
2441MHz	DH3	261.76	400	Pass
2441MHz	DH5	307.52	400	Pass

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s Test channel: 2441MHz as blow

DH1 time slot=0.389(ms)*(1600/ (2*79))*31.6=124.48ms DH3 time slot=1.636(ms)*(1600/ (4*79))*31.6=261.76ms

DH5 time slot=2.883(ms)*(1600/ (6*79))*31.6=307.52ms

π/4-DQPSK mode:

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	2DH1	124.48	400	Pass
2441MHz	2DH3	262.56	400	Pass
2441MHz	2DH5	308.16	400	Pass

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s Test channel: 2441MHz as blow DH1 time slot=0.389(ms)*(1600/ (2*79))*31.6=124.48ms DH3 time slot=1.641(ms)*(1600/ (4*79))*31.6=262.56ms DH5 time slot=2.889(ms)*(1600/ (6*79))*31.6=308.16ms

8-DPSK mode:

Frequency	Packet	Dwell time(ms)	Limit(ms)	Result
2441MHz	3DH1	124.16	400	Pass
2441MHz	3DH3	262.40	400	Pass
2441MHz	3DH5	308.37	400	Pass

Remarks:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s Test channel: 2441MHz as blow DH1 time slot=0.388(ms)*(1600/ (2*79))*31.6=124.16ms DH3 time slot=1.640(ms)*(1600/ (4*79))*31.6=262.40ms DH5 time slot=2.891(ms)*(1600/ (6*79))*31.6=308.37ms

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Test Plots

GFSK DH1

R	RF	50 Ω AC		S	ENSE:PULSE			IGN AUTO			7 PM Aug 13, 2
enter Fr	req 2.₄	14100000	P	NO:Fast ↔ Gain:Low	Total M		ms	Avg Type:	Log-Pwr	1	TYPE WWWW DET PNNN
) dB/div		fset 2.02 dB 2 0.00 dBm								ΔMkr1	389.0 1.33 c
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enter 2.4 es BW 1. R MODE TRO 1 A2 1 2 F 1	141000 .0 MHz	0000 GHz		(Δ) 1	8W 3.0 M	Hz	<mark>n finlad</mark> e	<mark>things and the p</mark> articles of the particular states of the particular s	Sweep	10.00 ms	Span 0
and the second	141000 .0 MHz c scl t (2	0000 GHz	389.0 µs	(Δ) 1	33 dB	Hz	<mark>n finlad</mark> e	<mark>things and the p</mark> articles of the particular states of the particular s	Sweep	10.00 ms	Span 0
enter 2.4 es BW 1. cs	141000 .0 MHz c scl t (2	0000 GHz	389.0 µs	(Δ) 1	33 dB	Hz	<mark>n finlad</mark> e	<mark>things and the p</mark> articles of the particular states of the particular s	Sweep	10.00 ms	Span 0
R Model File R Model File <td>141000 .0 MHz c scl t (2</td> <td>0000 GHz</td> <td>389.0 µs</td> <td>(Δ) 1</td> <td>33 dB</td> <td>Hz</td> <td><mark>n finlad</mark>e</td> <td><mark>thing to said the party of the</mark></td> <td>Sweep</td> <td>10.00 ms</td> <td>Span 0</td>	141000 .0 MHz c scl t (2	0000 GHz	389.0 µs	(Δ) 1	33 dB	Hz	<mark>n finlad</mark> e	<mark>thing to said the party of the</mark>	Sweep	10.00 ms	Span 0
2.0 444 μm 2.0 enter 2.4 es BW 1. R MODE TRO	141000 .0 MHz c scl t (2	0000 GHz	389.0 µs	(Δ) 1	33 dB	Hz	<mark>n finlad</mark> e	<mark>thing to said the party of the</mark>	Sweep	10.00 ms	Span 0

GFSK DH3

CILCIT	RF 50 Ω Treq 2.44100	00000 GHz	NO: Fast +++ T	^{ULSE} rig Delay-1.000 m rig: Video Atten: 30 dB	ALIGN AUTO s Avg Type	Log-Pwr	TR	PM Aug 12, 202 ACE 1 2 3 4 5 YPE WWWWWW DET P NNNN
0 dB/div og ∢	Ref Offset 2. Ref 20.00							1.636 m -5.68 dl
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		× <u>1.636 ms</u> 998.0 us	Υ (Δ) -5.68 dE -1.59 dBn	FUNCTION	FUNCTION WIDTH	F	UNCTION VALUE	
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GFSK DH5

Center Freq 2.441000000 GHz	PNO: Fast ++ Tri	g Delay-1.000 m g: Video tten: 30 dB	ns Avg Ty	pe: Log-Pwr	TF	5 PM Aug 12, 2021 RACE 1 2 3 4 5 TYPE WWWWWW DET P N N N N
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enter 2.441000000 GHz es BW 1.0 MHz KR MODE TRC SCL X A2 1 t (Δ) 2.883 1 2 F 1 t 907.0	#VBW 3.0 ms (Δ) -2.26 dB		FUNCTION WIDTH	Sweep	10.00 ms	Span 0 Hz (10001 pts
enter 2.441000000 GHz es BWD 1.0 MHz KR MODE TRC SCL X 1 Δ2 1 t (Δ) 2.883 1 2 F 1 t 907.0	#VBW 3.0 γ ms (Δ) -2.26 dB) MHz		Sweep		Span 0 Hz (10001 pts)

π/4-DQPSK DH1

Keysight Spectrum Analyzer - Swept SA Ø R RF 50 Ω AC	SENSE:PUL	uerl I	ALIGN AUTO		05:20:24 PM Aug 13, 202
Center Freq 2.441000000 GHz	PNO: Fast ↔ Tri	g Delay-1.000 ms g: Video tten: 30 dB	Avg Type: L	.og-Pwr	TRACE 2 3 4 TYPE WWWW DET P N N N
Ref Offset 2.02 dB 10 dB/div Ref 20.00 dBm -og ∳					ΔMkr1 389.0 μ 0.22 d
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MKR MODE TRC SCL X 1 Δ2 1 t (Δ) 389.0 μs	γ (Δ) 0.22 dB	FUNCTION FU	UNCTION WIDTH	FUI	ICTION VALUE
2 F 1 t 853.0 µs					
4 5					
6					
8					
10					
		m.			٢
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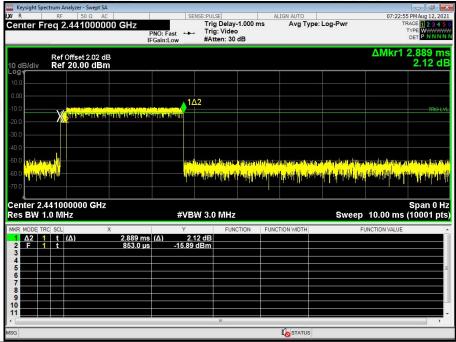




π/4-DQPSK DH3

Keysight Spectrum Analyzer - Swept SA		1				-		
Center Freq 2.441000000	Р	NO: Fast ↔ Gain:Low	NSE:PULSE Trig Delay Trig: Vide #Atten: 30	-1.000 ms o	ALIGN AUTO Avg Type	: Log-Pwr	TF	7 PM Aug 12, 202 RACE 1 2 3 4 5 TYPE WWWW DET P N N N
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0.0 Individual for the second se	1.641 ms	#VΒ #VΒ	W 3.0 MHz	od na pod fillopolo o	anan da an	Sweep	10.00 ms	Span 0 H (10001 pt
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50.0 Initial plant 70.0 Initial plant Center 2.441000000 GHz Initial plant Res BW 1.0 MHz Initial plant RR MODE TRC SCL X 1 A2 1 2 F 1 3 Initial plant 4 Initial plant 5 Initial plant 6 Initial plant 7 8	1.641 ms	#VΒ #VΒ	W 3.0 MHz	od na pod fillopolo o	anan da an	Sweep	10.00 ms	Span 0 H (10001 pt
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5000 Initial product of the second seco	1.641 ms	#VΒ #VΒ	W 3.0 MHz	od na pod fillopolo o	anan da an	Sweep	10.00 ms	Span 0 H (10001 pt

π/4-DQPSK DH5



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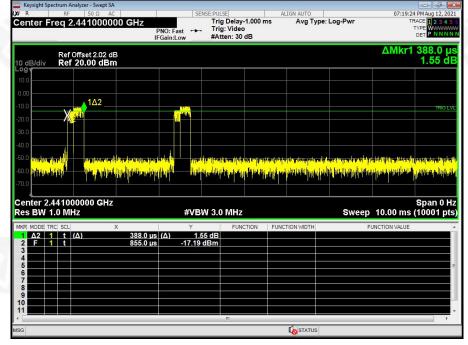
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8-DPSK DH1



















8-DPSK DH3

Keysight Spectrum Analyzer - Swept SA R RF 50 Ω AC	1	L CENCE-DUIL CE				07-00-0	
center Freq 2.441000000 G	Hz PNO: Fas IFGain:Lo	Trig:	Delay-1.000 ms	ALIGN AUTO Avg Type:	Log-Pwr	TI	4 PM Aug 12, 202 RACE 1 2 3 4 5 TYPE WWWWW DET P NNNN
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12. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
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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(c) (1)(i) requirement:

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

EUT Antenna:

The antenna is PCB antenna, the best case gain of the antennas is 0dBi, reference to the appendix II for details





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Reference to the appendix I for details.

14. EUT Constructional Details

Reference to the appendix II for details.



***** END OF REPORT ****