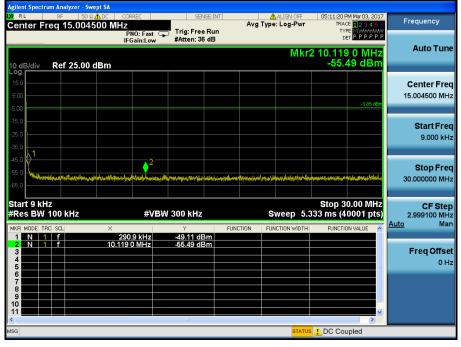


Lowest Channel & Modulation : GFSK



Agilent Spectrum Analyzer - Swept SA						
M RL RF 50 Ω AC Center Freq 5.01500000		SENSE		ALIGN OFF	05:11:28 PM Mar 03, 2017 TRACE 123456	Frequency
	PNO: Fast (IFGain:Low	Trig: Free R #Atten: 36 d			DET P P P P P	
	IFGain:LUW	WALLERN OU U	5	Mke	5 2.506 05 GHz	Auto Tune
10 dB/div Ref 25.00 dBm				IVINI	-38.36 dBm	
Log 15.0	∖1					Center Freq
5.00						5.015000000 GHz
-5.00					-3.85 dBm	
-15.0						01
-25.0	2					Start Freq 30.000000 MHz
-35.0	6					30.000000 MiHz
-45.0	T. Designed a Difference of the second s		رور وی البونی می می می وسول مرب می البولی وی بر زمانه البی مسلم می			
-55.0						Stop Freq
-65.0						10.00000000 GHz
Start 30 MHz					Stop 10.000 GHz	
#Res BW 1.0 MHz	#VB	W 3.0 MHz		Sweep 18	.67 ms (40001 pts)	CF Step 997.000000 MHz
MKR MODE TRC SCL X		Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
	.402 11 GHz	16.95 dBm -33.95 dBm				
3 N 1 f 2	.246 58 GHz .531 72 GHz	-35.73 dBm -36.18 dBm	1			Freq Offset
5 N 1 f 2	.506 05 GHz	-38.36 dBm			-	0 Hz
6						
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10						
<		III			>	
MSG				STATUS	3	



Lowest Channel & Modulation : GFSK



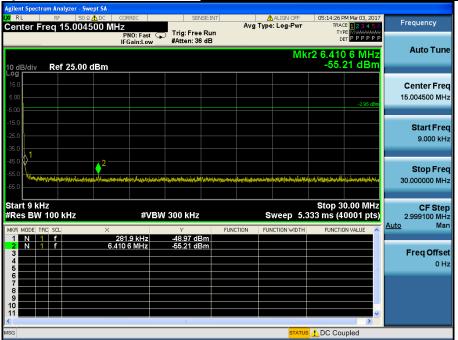


Reference for limit



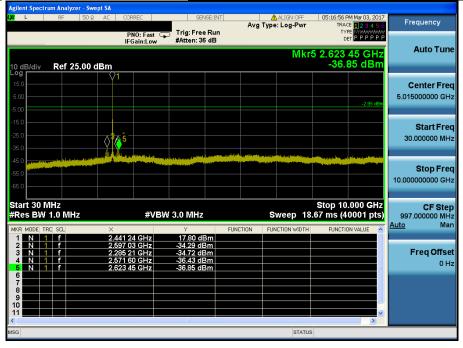


Conducted Spurious Emissions <u>Middle Channel & Modulation : GFSK</u>





Middle Channel & Modulation : GFSK



Agilent Spectrum Analyzer - Swept SA							
X RL RF 50 Ω AC CORREC Center Freq 17.500000000 GHz		Avg Type: Log-F	Wr TRACE 123456	Frequency			
	Fast 😱 Trig: Free Run	1	TYPE MWWWWW DET PPPPP				
	Mkr3 24.618 625 GH:						
10 dB/div Ref 25.00 dBm			-29.12 dBm				
15.0				Center Freq			
5.00				17.500000000 GHz			
-5.00			-2.95 dBm				
-15.0				Start Freq			
-25.0				10.000000000 GHz			
	A the local particular as an entering in the second second second second second second second second second se						
-45.0 -45.0				Stop Freq			
-55.0				25.00000000 GHz			
-65.0							
Start 10.000 GHz		_	Stop 25.000 GHz	CF Step			
	#VBW 3.0 MHz	-	40.00 ms (40001 pts)	1.500000000 GHz Auto Man			
MKR MODE TRC SCL X 1 N 1 f 24.682 375 G		FUNCTION FUNCTION W	1DTH FUNCTION VALUE				
2 N 1 f 24.778 000 G 3 N 1 f 24.618 625 G	Hz -29.03 dBm Hz -29.12 dBm			Freq Offset			
4 5				0 Hz			
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MSG		s	TATUS				



High Band-edge

Highest Channel & Modulation : GFSK



High Band-edge

Hopping mode & Modulation : GFSK





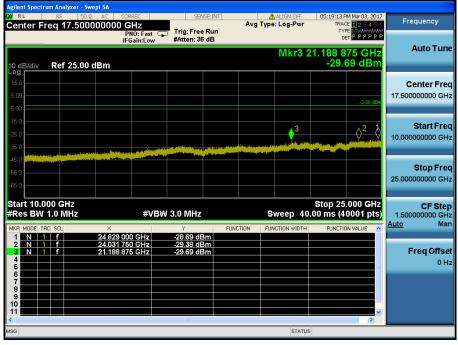
Highest Channel & Modulation : GFSK

Agilent Spectr	um Analyzer - Sv RF 50:		REC	CEN	SE:INT		ALIGN OFF	05:10:51 0	M Mar 03, 2017		
	req 15.004	500 MHz				Avg 1	Type: Log-Pwr	TRAC	E 123456	Frequency	1
10 dB/div	Ref 25.00	IFC	IO: Fast 🕞 iain:Low	Trig: Free #Atten: 36				DE Vikr2 28	T PPPPP	Auto T	une
Log 15.0 5.00									-2.56 dBm	Center F 15.004500	
-15.0 -25.0 -35.0										Start F 9.000	
-45.0	ting in the second s	Antrija, star i sport der	antiget angertageda	Yapini (Apiras)u, Anit	رەتىرالىرامۇر مەنبەلەيلەرمۇر	(marine, increa	rijela angente internetionen som te	n bé ni takan dan kerangan di kerangan di kerangan di kerangan kerangan di kerangan di kerangan di kerangan di	haven the second second	Stop F 30.000000	
Start 9 kH #Res BW	100 kHz	×	#VBV	V 300 kHz Y	FUN	CTION	Sweep 5.3			CF S 2.999100 <u>Auto</u>	
1 N 1		283 283	4 kHz 4 kHz	-49.37 dB -49.37 dB	lm lm				=	Freq Of	f fset 0 Hz
/ 8 9 9 10 11 11 (<									×		
MSG							STATUS	L DC Cou	pled		

Agilent Spectrum Analyzer - Swept SA				
X RL RF 50Ω AC CORRE Center Freq 5.015000000 GHz		Avg Type: Log-Pwr	05:19:02 PM Mar 03, 2017 TRACE 123456	Frequency
PNO	: Fast 🕞 Trig: Free Rui n:Low #Atten: 36 dB	1	DET PPPPP	
		Mkr	5 2.297 93 GHz	Auto Tune
10 dB/div Ref 25.00 dBm			-36.64 dBm	
15.0				Center Freq
5.00				5.015000000 GHz
-5.00			-2.56 dBm	
-15.0				Start Freq
-25.0				30.000000 MHz
-35.0				
-45.0			an a fair ann an Anna a An Anna an Anna	
-55.0				Stop Freq 10.000000000 GHz
-65.0				10.00000000 GH2
Start 30 MHz			Stop 10.000 GHz	CF Step
#Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 18	.67 ms (40001 pts)	997.000000 MHz
MKR MODE TRC SCL X	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
1 N 1 f 2.480 13 0 2 N 1 f 2.324 10 0				
3 N 1 f 2.636 41 0	GHz -33.72 dBm			Freq Offset
4 N 1 f 2.350 02 0 5 N 1 f 2.297 93 0			=	0 Hz
6				
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10				
11	111		~	
MSG		STATUS	5	



Highest Channel & Modulation : GFSK





Low Band-edge

Lowest Channel & Modulation : π/4DQPSK



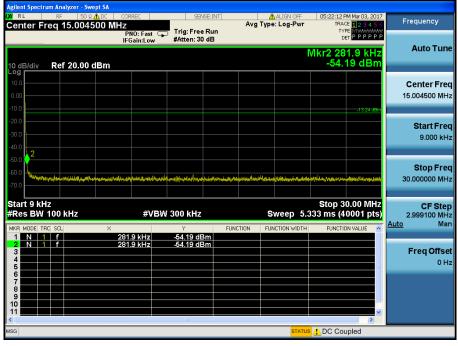
Low Band-edge

Hopping mode & Modulation : π/4DQPSK





Lowest Channel & Modulation : π/4DQPSK



RL RF 50	Ω AC CORREC	SENSE:IN	IT	ALIGN OFF	05:22:24 PM Mar 03, 2017	
Center Freq 5.0150		Trig: Free Run		Type: Log-Pwr	TRACE 12345	Frequency
	PNO: Fast IFGain:Lov		·			
				Mkr	5 2.584 56 GHz	Auto Tune
10 dB/div Ref 20.00) dBm				-43.87 dBm	
10.0						Center Fred
0.00						5.015000000 GH
10.0					-13.24 dBm	
20.0						
30.0	^2					Start Free
-40.0						30.000000 MH:
50.0		Constant de constante e présente a la serie	and a second second second	a parte de la constanti de la constant	and be presented as the base opened a first prese	
60.0						Stop Free
70.0						10.00000000 GH
Start 30 MHz #Res BW 1.0 MHz	-443.4	BW 3.0 MHz		0	Stop 10.000 GHz .67 ms (40001 pts)	CF Step
						997.000000 MH Auto Mar
MKR MODE TRC SCL	× 2.402 36 GHz	⊻ 7.68 dBm	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	
2 N 1 F 3 N 1 F	2.558 14 GHz 2.532 47 GHz	-37.97 dBm -42.27 dBm				Freq Offse
4 N 1 f	2.245 83 GHz	-43.30 dBm				0 H
5 N 1 f	2.584 56 GHz	-43.87 dBm			=======================================	
7 8						
9						
10					~	
					>	
SG				STATUS		



Lowest Channel & Modulation : π/4DQPSK





Reference for limit

Middle Channel & Modulation : π/4DQPSK

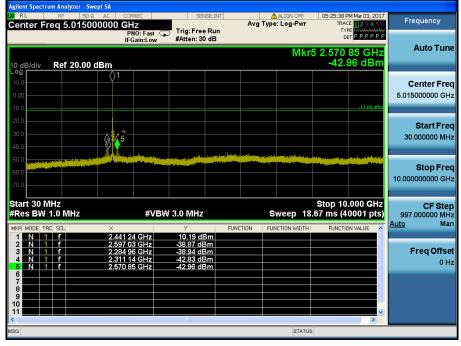


Conducted Spurious Emissions <u>Middle Channel & Modulation : π/4DQPSK</u>

gilent Spectrum Analyzer - Swept SA M Mar 03, 201 ALIGN OFF Frequency Center Freq 15.004500 MHz RACE 12345 (TYPE MWWWWWW DET PPPPF PNO: Fast Trig: Free Run IFGain:Low #Atten: 30 dB Auto Tune Mkr2 287.9 kHz -54.06 dBm Ref 20.00 dBm **Center Freq** 15.004500 MHz Start Freq 9.000 kHz Stop Freq 30.000000 MHz CF Step 2.999100 MHz Man Start 9 kHz #Res BW 100 kHz Stop 30.00 MHz Sweep 5.333 ms (40001 pts) #VBW 300 kHz Auto 287.9 kHz 287.9 kHz -54.06 dBm -54.06 dBm N 1 f N 1 f Freq Offset 0 Hz DC Coupled



Middle Channel & Modulation : π/4DQPSK





Highest Channel & Modulation : π/4DQPSK



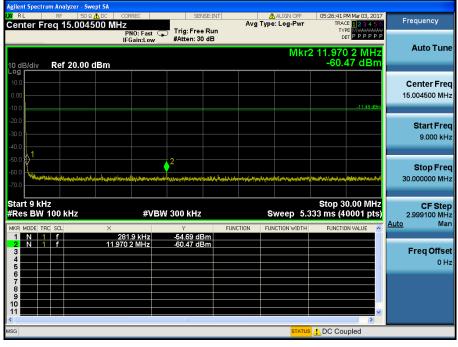
High Band-edge

Hopping mode & Modulation : π/4DQPSK





Highest Channel & Modulation : π/4DQPSK



Agilent Spectru										
Center Fr		ାହ	RREC Z		SE:INT		ALIGN OFF	TRAC	PM Mar 03, 2017 CE <u>1 2 3 4 5 6</u>	Frequency
		Р	NO:Fast ⊂ Gain:Low	Trig: Free #Atten: 30				TYI DI	PE MWWWWW ET P P P P P P	
							Mkr	5 2.298	18 GHz	Auto Tune
10 dB/div	Ref 20.0	0 dBm							39 dBm	
Log 10.0										Contor From
0.00										Center Freq 5.015000000 GHz
-10.0									-11.49 dBm	0.01000000000112
-20.0										
-30.0										Start Freq
-40.0		⁵ 0°								30.000000 MHz
-50.0		and the second	A CONTRACTOR	and the local data in the second second				- physical distances	and the approximation	
-60.0								and the second s		Stop Freq
-70.0										10.00000000 GHz
Start 30 M #Res BW			#VB	W 3.0 MHz		s	weep 18	Stop 10 67 ms (4	.000 GHz 0001 pts)	CF Step 997.000000 MHz
MKR MODE TR	C SCL	×		Y	FUN		NCTION WIDTH		ON VALUE	<u>Auto</u> Man
1 N 1 2 N 1	f	2.480 1		9.40 dB						
3 N 1	f	2.324 1 2.635 9	1 GHz	-37.21 dB -40.35 dB	m					Freq Offset
4 N 1 5 N 1	f	2.350 2 2.298 1		-41.49 dB -42.39 dB					=	0 Hz
6										
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11									~	
MSG							STATUS			
					_					



Highest Channel & Modulation : π/4DQPSK





Low Band-edge

Lowest Channel & Modulation : 8DPSK



Low Band-edge

Hopping mode & Modulation : 8DPSK





Lowest Channel & Modulation : 8DPSK

XI RL Center Fi					Bun	Avg		LIGN OFF Log-Pwr	TRAG	PM Mar 03, 2017 CE 1 2 3 4 5 6 PE M WWWWWW	Frequency	У
10 dB/div	Ref 20.0	IFC	IO:Fast G ain:Low	#Atten: 30					₀ 1kr2 29	3.9 kHz 42 dBm	Auto T	une
Log 10.0 0.00 -10.0										-12:95 dBm	Center 15.004500	
-20.0											Start 9.000	
-50.0 2	er oneistaat on staat ta	uffutur filmledetfentendige	okumaa hayoonta	and the second second	ler-eghtissia	leipper trujett	yyehandhya	hapatoclotradila	h,hansh,pybyger	qqqaffaqaalaqtaqta	Stop 30.000000	
Start 9 kH #Res BW	100 kHz		#VB\	N 300 kHz				· ·	33 ms (4	0.00 MHz 0001 pts)	CF \$ 2.999100 Auto	
MKR MODE TF 1 N 1 2 N 1 3 4 5	f		9 kHz 9 kHz	Y -55.42 dE -55.42 dE	3m	INCTION	FUNC	TION WIDTH	FUNCTI	DN VALUE	Freq O	
6 7 8 9 10												
11				Ш					DC Cou			

	rum Analyzei									
XIRL Contor		50Ω AC		SEN	SE:INT	Ανα Τν	ALIGN OFF		M Mar 03, 2017 E <mark>1 2 3 4 5 6</mark>	Frequency
Centerr	req 5.0	5000000	PNO: Fast IFGain:Low	Trig: Free #Atten: 30			pe. Log i m	TYP	E MWWWWW T P P P P P P	
10 dB/div	Ref 20	.00 dBm					Mkr	5 2.584 -43.4	31 GHz 15 dBm	Auto Tune
10.0 0.00		^1 							-12:95 dBm	Center Frec 5.015000000 GHz
-20.0 -30.0 -40.0			5							Start Free 30.000000 MH;
-50.0 -60.0										Stop Fred 10.000000000 GH;
	/ 1.0 MHz		#V	BW 3.0 MHz			Sweep 18	.67 ms (4		CF Step 997.000000 MH Auto Mar
MKR MODE 1	rrc scl	× 2.40	2 36 GHz	۲ 7.91 dB		CTION F	UNCTION WIDTH	FUNCTIO	N VALUE	indi
5 N	1 f 1 f 1 f 1 f	2.55 2.53 2.24	8 14 GHz 1 97 GHz 6 58 GHz 4 31 GHz	-38.15 dB -42.33 dB -43.42 dB -43.45 dB	m m					Freq Offse 0 Hz
6 7 8 9										
11				<u></u>					~	
ISG							STATUS			



Lowest Channel & Modulation : 8DPSK

RL RF 50 Senter Freq 17.50	Ω AC CORREC 0000000 GHz PNO: Fast	SENSE:IN	Avg	ALIGN OFF Type: Log-Pwr	TRACI	M Mar 03, 2017 E 1 2 3 4 5 6 E M WWWWW	Frequency
0 dB/div Ref 20.00	IFGain:Lov			Mkr3 2	2.294 7	50 GHz 54 dBm	Auto Tuno
•g 10.0 0.00						-12.95 dBm	Center Fre 17.500000000 GH
20.0		NA - MATER (MI) A 1 - MI -	Accession of a section by		3		Start Fre 10.000000000 GH
50.0 Ministry (1997) 50.0 1997 70.0 1997							Stop Fre 25.000000000 GH
tart 10.000 GHz Res BW 1.0 MHz		BW 3.0 MHz		Sweep 40	•	0001 pts)	CF Ste 1.500000000 GH Auto Ma
MKR MODE TRC SCL 1 N 1 f 2 N 1 f 3 N 1 f 4	× 24.667 750 GHz 24.274 375 GHz 22.294 750 GHz	-36.02 dBm -36.13 dBm -36.54 dBm	FUNCTION	FUNCTION WIDTH	FUNCTIO		Freq Offso 0 H
6 7 8 9 10							
3G				STATUS		>	

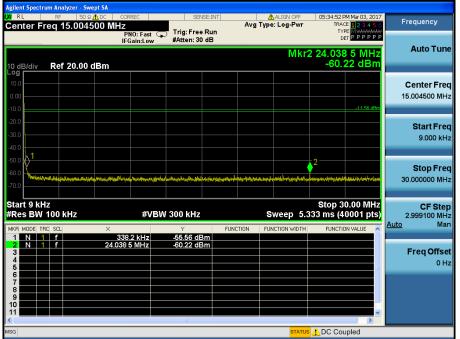


Reference for limit

Middle Channel & Modulation : 8DPSK

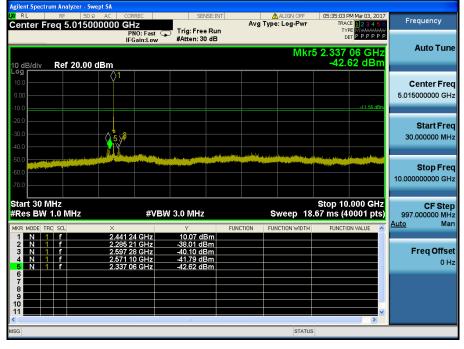


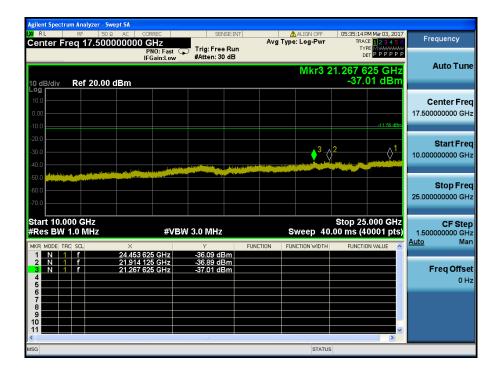
Conducted Spurious Emissions <u>Middle Channel & Modulation : 8DPSK</u>





Middle Channel & Modulation : 8DPSK







High Band-edge

Highest Channel & Modulation : 8DPSK



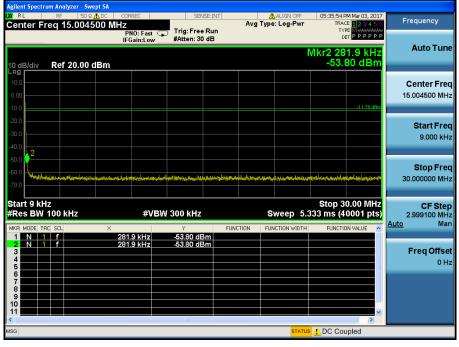
High Band-edge

Hopping mode & Modulation : 8DPSK





Highest Channel & Modulation : 8DPSK



Agilent Spectrum Analyzer - ! W RL RF 50	Swept SA DΩ AC CORREC	SENSE:INT	ALIGN OFF	05:36:06 PM Mar 03, 2017	
Center Freq 5.015	000000 GHz		Avg Type: Log-Pwr	TRACE 1 2 3 4 5 6	Frequency
	PNO: Fast G	#Atten: 30 dB		TYPE MWWWWWW DET PPPPP	
			Mkr	5 2.350 52 GHz	Auto Tune
10 dB/div Ref 20.00	0 dBm			-43.54 dBm	
10.0	Ŷ'				Center Fred
0.00					5.015000000 GH:
-10.0				-11.78 dBm	
-20.0					Otent Enge
-30.0					Start Fred 30.000000 MHz
-40.0	\{`f`\`				30.000000 WHZ
-50.0			ويصافأ المستحالة وحدادا وتحديك	and the supported and the support of the support	
-60.0					Stop Fred
-70.0					10.00000000 GHz
Start 30 MHz #Res BW 1.0 MHz	#VB\	V 3.0 MHz	Sweep 18	Stop 10.000 GHz .67 ms (40001 pts)	CF Step 997.000000 MHz
MKR MODE TRC SCL	X	Y FL	JNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Mar
1 N 1 f	2.479 88 GHz	9.31 dBm			
2 N 1 f 3 N 1 f	2.324 10 GHz 2.636 16 GHz	-37.33 dBm -41.43 dBm			Freq Offset
4 N 1 f 5 N 1 f	2.298 18 GHz 2.350 52 GHz	-42.77 dBm -43.54 dBm			. он:
6	2.550 52 6112	-40.54 dBiii			
8					
9					
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<		illi illi	STATUS		
55			STATUS		



Highest Channel & Modulation : 8DPSK



8. Transmitter AC Power Line Conducted Emission

8.1 Test Setup

See test photographs for the actual connections between EUT and support equipment.

8.2 Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 uH/50 ohm line impedance stabilization network (LISN).

Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency Range (MHz)	Conducted Limit (dBuV)					
Frequency hange (Minz)	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 logarithm of the frequency

8.3 Test Procedures

Conducted emissions from the EUT were measured according to the ANSI C63.10.

- 1. The test procedure is performed in a 6.5 m × 3.5 m × 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
- 2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
- 3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
- 4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

8.4 Test Results

NA

Dt&C

9. Antenna Requirement

Describe how the EUT complies with the requirement that either its antenna is permanently attached, or that it employs a unique antenna connector, for every antenna proposed for use with the EUT.

Conclusion: Comply

The external antenna is connected to the unique connecter. (Refer to External Photo file.)

- Minimum Standard :

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 shall be considered sufficient to comply with the provisions.

10.1 Test Setup

Refer to the APPENDIX I.

10.2 Limit

Limit : Not Applicable

10.3 Test Procedure

The 99 % power bandwidth was measured with a calibrated spectrum analyzer.

The resolution bandwidth (RBW) shall be in the range of 1 % to 5 % of the occupied bandwidth (OBW) and video bandwidth (VBW) shall be approximately $3 \times RBW$.

Spectrum analyzer plots are included on the following pages.

10.4 Test Results

Modulation	Tested Channel	Test Results (MHz)			
	Lowest	1.057			
<u>GFSK</u>	Middle	1.070			
	Highest	1.045			
	Lowest	1.246			
<u>π/4DQPSK</u>	Middle	1.267			
	Highest	1.271			
	Lowest	1.223			
<u>8DPSK</u>	Middle	1.229			
	Highest	1.235			







Occupied Bandwidth (99 %)

Middle Channel & GFSK











Lowest Channel & π/4 DQPSK



Occupied Bandwidth (99 %)

Middle Channel & π/4 DQPSK















Occupied Bandwidth (99 %)

Middle Channel & 8DPSK





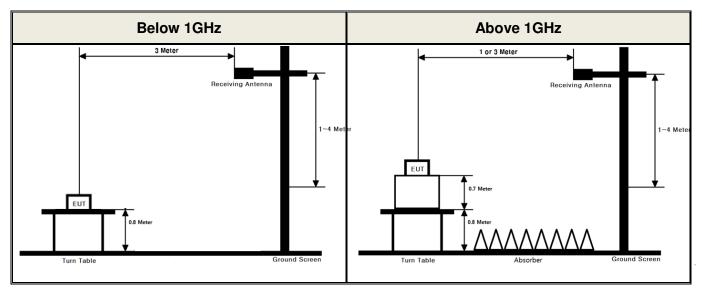




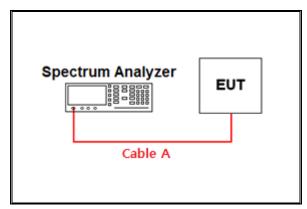
APPENDIX I

Test set up diagrams

Radiated Measurement



Conducted Measurement



Path loss information

Frequency (GHz)	Path Loss (dB)	Frequency (GHz)	Path Loss (dB)	
0.03	0.18	15	3.50	
1	0.80	20	4.86	
2.402 & 2.441 & 2.480	1.30	25	5.35	
5	1.82	-	-	
10	2.70	-	-	

Note 1 : The path loss from EUT to Spectrum analyzer were measured and used for test.

Path loss (S/A's Correction factor) = Cable A

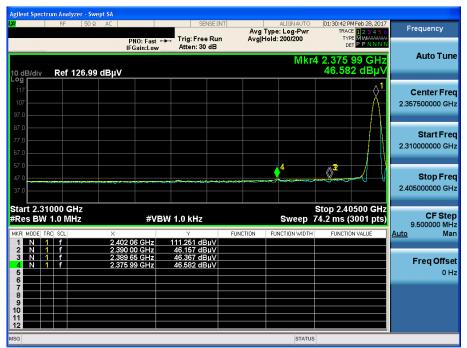
APPENDIX II

Unwanted Emissions (Radiated) Test Plot

GFSK & Lowest & X & Hor

TRACE 1 2 3 4 E TYPE MWAWA DET P P N N N PNO: Fast IFGain:Low Atten: 30 dB Avg Type: Log-Pwr Auto Tune Mkr4 2.375 90 GHz 57.95 dBµ\ Ref 126.99 dBµV 0 dB/div **Center Freq** 2.357500000 GHz Start Freq 2.31000000 GHz $\langle \rangle^2$ Stop Freq 2.405000000 GHz Stop 2.40500 GHz 1.00 ms (3001 pts) Start 2.31000 GHz CF Step 9.500000 MHz VBW 3.0 MHz Sweep #Res BW 1.0 MHz Man Auto 58.05 dBµ\ 57.95 dBµ\ Freq Offset 2.375 90 GI 0 Hz

GFSK & Lowest & X & Hor



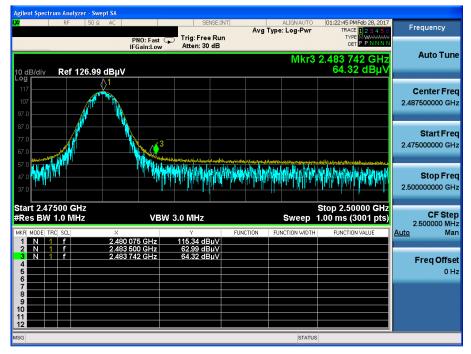
Detector Mode : AV

equency

Detector Mode : PK

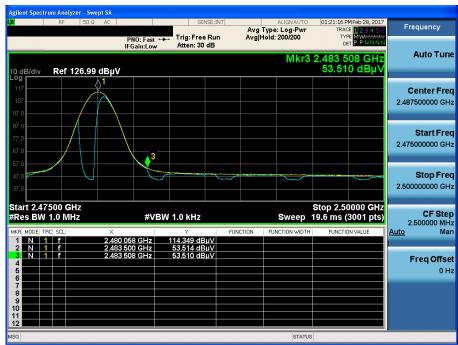


GFSK & Highest & X & Hor



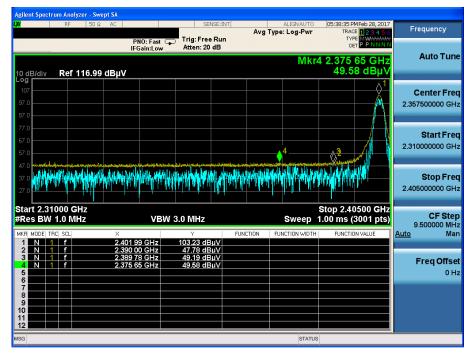
Detector Mode : AV

GFSK & Highest & X & Hor





$\pi/4DQPSK$ & Lowest & X & Hor



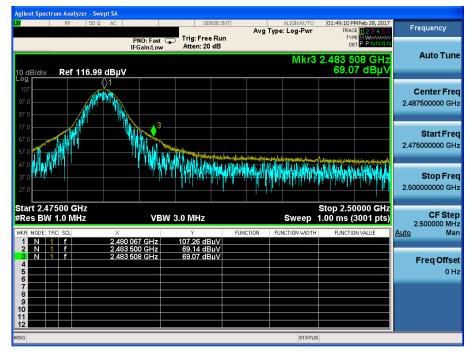
Detector Mode : AV

$\pi/4DQPSK$ & Lowest & X & Hor

50Ω AC	PNO: Fast ↔	SENSE:IN	Avg		05:37:52 PM Feb 28, 2017 TRACE 1 2 3 4 5 6 TYPE MW	Frequency
116.99 dBµV	IFGain:Low	Atten: 20 dB		Mkr4		Auto Tur
						Center Fre 2.357500000 GH
				4		Start Fre 2.310000000 GH
						Stop Fre 2.405000000 GH
	#VBW	1.0 kHz		Sweep 7	Stop 2.40500 GHz 74.2 ms (3001 pts)	CF Ste 9.500000 MI
		Y 99.265 dBµV	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	Auto Ma
2.38	39 78 GHz	38.430 dBµV 38.634 dBµV				Freq Offs 0 F
	116.99 dВµV	PNO: Fast ↔ IFGain:Low	PN0: Fast Trig: Free Run I16.99 dBµV IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	PN0: Fast Trig: Free Run Avgl Avgl 116.99 dBµV Image: State Sta	PNO: Fast Trig: Free Run Avg Type: Log-Pwr IFGain:Low Trig: Free Run Avg Type: Log-Pwr Mkr2 Mkr2 116.99 dBµV Image: Strategy Stra	PNO: Fast Trig: Free Run IFGain: Low Avg Type: Log-Pwr Avg Hold: 200/200 Trace 12 a to 50 Type PNNIN 116.99 dBµV Mkr4 2.375 93 GHz 38.634 dBµV 38.634 dBµV 116.99 dBµV 38.634 dBµV 116.99 dBµV 38.634 dBµV 116.99 dBµV 38.634 dBµV 116.99 dBµV 38.634 dBµV 38.634 dBµV 38.634 dBµV 38.634 dBµV 38.634 dBµV 39.634 dBµV 38.634 dBµV 4 3 4 3 4 3 38.634 dBµV 4 4 3 4 3 4 3 4 3 38.430 dBµV 5 top 2.40500 GHz 39.265 dBµV 5 top 2.40500 GHz 2.390 00 GHz 39.280 dBµV 2.397 8 GHz 38.430 dBµV

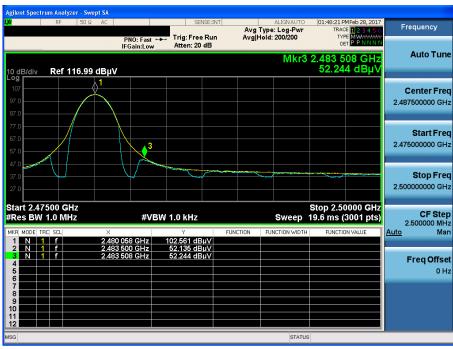


$\pi/4DQPSK$ & Highest & X & Hor



Detector Mode : AV

$\pi/4DQPSK$ & Highest & X & Hor





8DPSK & Lowest & X & Hor

t Spectrum Analyzer -Frequency Avg Type: Log-Pwr Trig: Free Run Atten: 20 dB PNO: Fast 😱 IFGain:Low Auto Tune Mkr4 2.375 96 GH: 49.70 dBµ\ Ref 116.99 dBµV **Center Freq** 2.357500000 GHz Start Freq 2.310000000 GHz -0<mark>3</mark> Stop Freq 2.40500000 GHz Stop 2.40500 GHz 1.00 ms (3001 pts) Start 2.31000 GHz #Res BW 1.0 MHz CF Step 9.500000 MHz Man VBW 3.0 MHz Sweep Auto 03.26 51.38 51.51 49.70 Freq Offset 0 Hz 11 12 STATUS

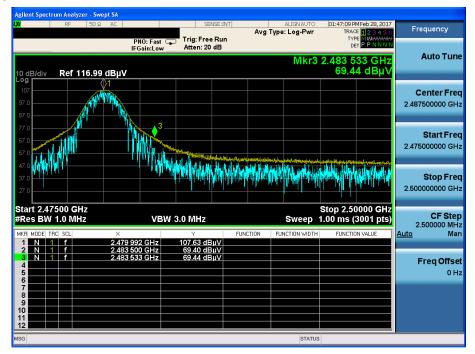
Detector Mode : AV

8DPSK & Lowest & X & Hor





8DPSK & Highest & X & Hor



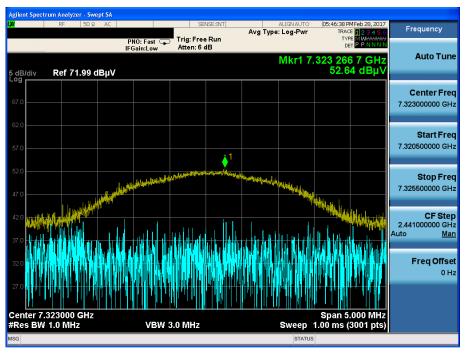
Detector Mode : AV

8DPSK & Highest & X & Hor



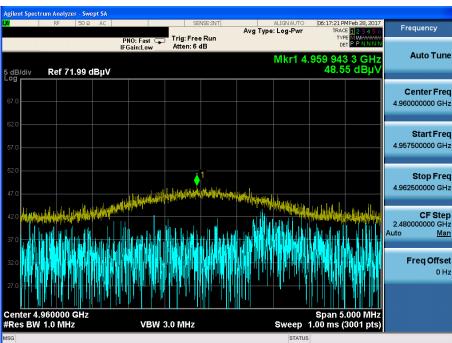


GFSK & Middle & X & Ver



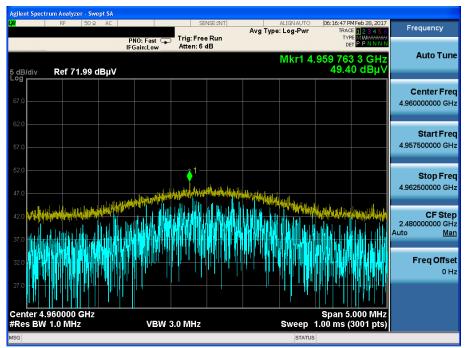
π/4DQPSK & Highest & Y & Hor

Detector Mode : PK



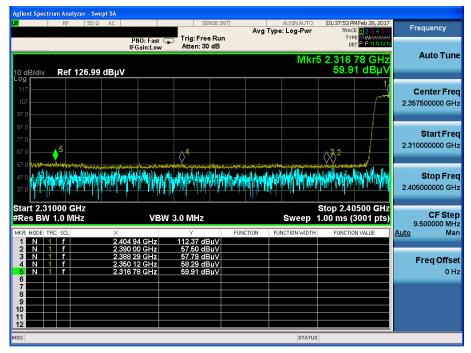


8DPSK & Highest & Y & Hor





GFSK & Hopping mode & X & Hor



GFSK & Hopping mode & X & Hor

zer - Swept SA Frequency TRACE TYPE DE PNO: Fast →→→ Trig: Free Run IFGain:Low____ Atten: 30 dB Avg Type: Log-Pwr Avg|Hold: 200/200 12345 MWARAA PPNNN Auto Tune Mkr5 2.317 00 GHz 53.441 dBµV Ref 126.99 dBµV 0 dB/div **Center Freq** 2.357500000 GHz Start Freq 2.31000000 GHz ϕ^4 $\langle \rangle^{3}$ Stop Freq 2.405000000 GHz Stop 2.40500 GHz 74.2 ms (3001 pts) 2.31000 GHz BW 1.0 MHz CF Step 9.500000 MHz Man #VBW 1.0 kHz Sweep Auto 111.795 dBµV 46.031 dBµV 46.416 dBµV 51.649 dBµV 53.441 dBµV Freq Offset 2.317 00 GH 0 Hz STATUS

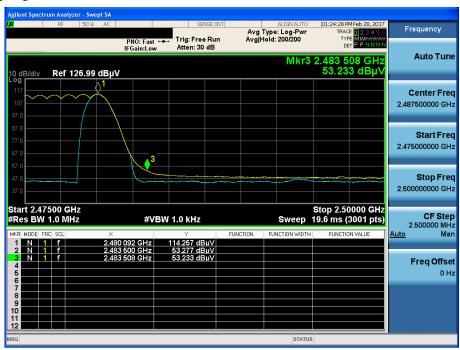


GFSK & Hopping mode & X & Hor

Agilent Spectrum Analyzer - Swept SA									
ιχι RF 50 Ω AC		SENSE:II	Avg Type	ALIGN AUTO e: Log-Pwr	01:26:31 PM Fe TRACE	28,2017	Frequency		
	PNO: Fast 🖵 IFGain:Low	Trig: Free Run Atten: 30 dB	1		DET	PNNNN	Auto Tune		
10 dB/div Ref 126.99 dBµV	Мкr3 2.483 542 GHz 10 dB/div Ref 126.99 dBµV 62.74 dBµV								
117 117 107 97.0							Center Freq 2.487500000 GHz		
87.0 77.0 67.0	3	errer son Staterang Date, yet an State groups	ومراجع المعادية المع		a kan sa kita da a sa a la kana sa a kana		Start Freq 2.475000000 GHz		
47.0 1000 1000 1000 1000 1000 1000 1000 1	h ay the second	Hilling Hilling	n an the second	int in a second		****	Stop Freq 2.500000000 GHz		
Start 2.47500 GHz Stop 2.50000 GHz #Res BW 1.0 MHz VBW 3.0 MHz Sweep 1.00 ms (3001 pts)						CF Step 2.500000 MHz			
MKR MODE TRC SCL X		Y	FUNCTION FU	NCTION WIDTH	FUNCTION V	ALUE	<u>Auto</u> Man		
2 N 1 f 2.483	9992 GHz 500 GHz 542 GHz	115.30 dBµV 62.11 dBµV 62.74 dBµV					Freq Offset		
5							0 Hz		
7 8 9									
10 11 12									
MSG				STATUS					

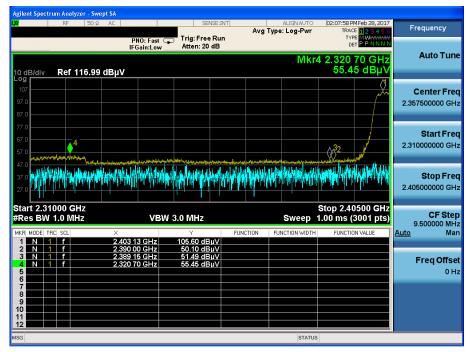
Detector Mode : AV

GFSK & Hopping mode & X & Hor





$\pi/4DQPSK$ & Hopping mode & X & Hor

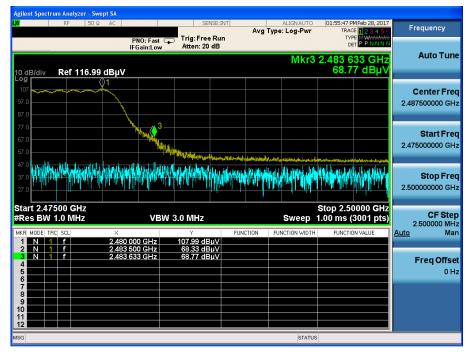


$\pi/4DQPSK$ & Hopping mode & X & Hor





$\pi/4DQPSK$ & Hopping mode & X & Hor

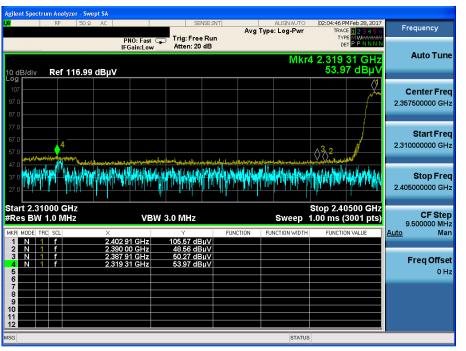


$\pi/4DQPSK$ & Hopping mode & X & Hor





8DPSK & Hopping mode & X & Hor

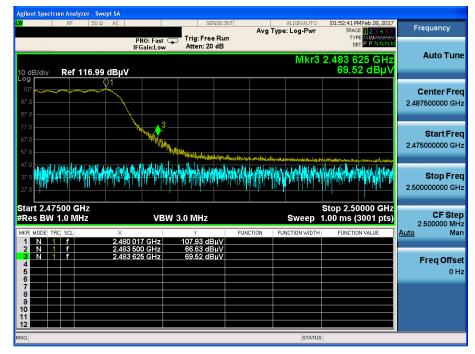


8DPSK & Hopping mode & X & Hor





8DPSK & Hopping mode & X & Hor



8DPSK & Hopping mode & X & Hor

