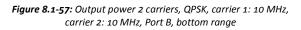


Keysight Spectr	rum Analyzer - Channel F RF 50 Ω DC			SENSE:INT		IGN AUTO		10:57:27	AM Jul 10, 201
enter Fre	q 2.1350000			Center Fre	q: 2.13500000	0 GHz		Radio Std: N	
PASS		-	FGain:Low	Trig: Free Run Avg Hold:>100/100 #Atten: 6 dB			100/100	Radio Device	BTS
10 dB/div	Ref Offset 53.8 Ref 40.00 dB								
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enter 2.1	35 GHz							Snan	57.14 M
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Channe	el Power			Power	Spectra	I Density	,		
48	8.55 dBm	1 / 50 MI	Ηz		31.57 (	dBm /M	١Hz		
Laboration of the	OP A bottom low					<b>K</b> STATUS			



	trum Analyzer - Channel RF 50 Ω DC	2		SENSE:INT		LIGN AUTO		11:00:25	AM Jul 10, 20
	eq 2.1350000	00 GHz		Tolor Posts	q: 2.13500000 Run	0 GHz Avg Hold:>1	00/100	Radio Std: N	one
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enter 2. Res BW				#VE	3W 150 kH	z		Span Swee	57.14 M p 27.2 r
Chang	el Power			Power	Spectra	I Density			
Chan	iei Powei			FOWER	opecua	Density			
4	8.55 dBn	0 / 50 M	47		31 56 (	dBm /M	H7		
	0.00 001	1 / 00 111			01.00				
	POP A bottom low					<b>STATUS</b>			

Figure 8.1-59: Output power 2 carriers, QPSK, carrier 1: 10 MHz, carrier 2: 20 MHz, Port B, bottom range

Center Fre	RF 50 Ω DC	GH7			q: 2.13500000			10:58: Radio Std:	44 AM Jul 10, 201 None
PASS			FGain:Low	Trig: Free Run Avg Hold #Atten: 6 dB			100/100	Radio Devi	ce: BTS
10 dB/div	Ref Offset 53.8 d Ref 40.00 dBr								
.og 30.0									
20.0		<b>~</b> 1							
10.0									
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30.0		-							-
40.0									
50.0									++-
Center 2.1	35 CH2							Snat	n 57.14 MH
Res BW				#VE	W 150 kH	z			ep 27.2 m
Chann	el Power			Power	Spectra	l Density			
4	8. <mark>61 dB</mark> m	/ 50 MI	Ηz		31.62	dBm /M	١Hz		
1.000	POP B bottom low 1					<b>STATUS</b>			

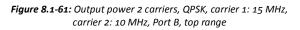
Figure 8.1-58: Output power 2 carriers, QPSK, carrier 1: 10 MHz, carrier 2: 15 MHz, Port B, bottom range

	C		SENSE:INT					4 AM Jul 10, 201
eq 2.1550000	000 GHz		Talas Francis		0 GHz	00/100	Radio Std: N	lone
]		#FGain:Low			Citilinary 1	00100	Radio Devic	e: BTS
						r-		
	1					1		
155 GHz 51 kHz			#VB	W 150 kH	z		Span Swee	57.14 MH 27.2 m
el Power			Power	Spectra	I Density			
8.68 dBr	n / 50 I	MHz		31.69	dBm /м	Hz		
					STATUS			
	Image: search of the	Image: Search of the	Image: Sea of the sea	Image: State and Trigging and the state a	Book Constraints of the second s	W     1980     C     ALSMAND       Q2.155000000 GHz     Center Freg.2.1500000 GHz     AlsmanD       Ref 000 GHz     ArgHeld>1       Ref 40.00 dBm       Galaxies     Galaxies       So GHz     FVBW 150 kHz       St KHz     #VBW 150 kHz       el Power     Power Spectral Density       8.68 dBm / 50 MHz     31.69 dBm /M	Weight         Autonato           eq 2.155000000 GHz         Center Freq: 216000000 Hz           Breathing         Center Freq: 216000000 Hz           Ref 40.00 dBm         Avg/Hold>100100           Ref 40.00 dBm         Image: State of the state of	Image: Section of the section of t

Figure 8.1-60: Output power 2 carriers, QPSK, carrier 1: 10 MHz, carrier 2: 10 MHz, Port B, top range



2		DC		SENSE:INT	A	IGN AUTO		11:03:44 Radio Std: N	AM Jul 10, 2017	
PASS	eq 2.15500		RFGain:Low	Talas Free	Run	Avg Hold:>	100/100	Radio Std: P		
10 dB/div	Ref Offset f Ref 40.00									
30.0										
20.0	1		-n							
0.00		_								
-10.0			1							
-20.0										
40.0										
-50.0										
Center 2. #Res BW				#VE	3W 150 kH	z			57.14 MH p 27.2 m	
Chann	el Power			Power	r Spectra	I Density	,			
4	48.65 dBm / 50 M		IHz	нz 31.66 dBm /мнz						
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	ectrum Analyzer - Chan RF 50 Ω	DC	S	ENSE:1NT		LIGN AUTO		11:07:28 Radio Std: N	AM Jul 10, 2017
Center F PASS	req 2.135000		IFGain:Low	Trig: Free #Atten: 6 d		Avg Hold:>	100/100	Radio Std: N Radio Device	
10 dB/div	Ref Offset 5 Ref 40.00	3.8 dB							
Log 30.0									
20.0			h			r r			
0.00									
-10.0						- 1			
-20.0									
-40.0		-		*********************					
Center 2	425 CHa								67 44 Milla
#Res BW				#VE	3W 150 kH	z			57.14 MHz p 27.2 ms
Chan	nel Power			Power	Spectra	I Density			
	47.53 dB	т / 50 M	Hz		30.54	dBm /M	IHz		
MSG						to status			

Figure 8.1-63: Output power 2 carriers, QPSK, carrier 1: 15 MHz, carrier 2: 15 MHz, Port A, bottom range

Center Fre	RF 50 Ω og 2.155000	000 GHz	-	S		q: 2.15500000			Radio Std: M	AM Jul 10, 2017
PASS			RFGain:Low	Trig: Free Run Avg Hold:>100/100 #Atten: 6 dB				100/100	Radio Devic	e: BTS
10 dB/div	Ref Offset 53 Ref 40.00									
log	1101 40100			Т						
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10.0										
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10.0	/			1						
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30.0								and a second		
40.0										
50.0										
Center 2.1 #Res BW					#VB	W 150 kH	z		Span Swee	57.14 MH p 27.2 m
				-			-			
Chann	el Power				Power	Spectra	I Density			
4	8.67 dB	m / 50 м	IHz			31.68 (	dBm /N	IHz		
and Diffice of	OP B top low 1	5 Mile biab 10	MHZ O pp		an sea al		<b>STATUS</b>			

Figure 8.1-62: Output power 2 carriers, QPSK, carrier 1: 20 MHz, carrier 2: 10 MHz, Port B, top range

enter Freq 2.135000000 GHz Radio Std: None Radio Std: None Ref 00fbet 53.8 dB 0eBldiv Ref 40.00 dBm 00 00 00 00 00 00 00 00 00 0	Keysight Spect	trum Analyzer - Channel Power RF 50 Ω DC		SENSE:INT	ALIGN AUTO	11:08:56 AM	o 🖨 📕
ASS Ref Offset S38 dB Ref Offse	enter Fre		Hz	Center Freq: 2.135000	0000 GHz		
add/div         Ref 40.00 dBm           add         add/div           add/div	ASS				Avg(Hold:>100/100	Radio Device: B	тs
channel Power Spectral Density							
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Image: Constraint of the second se			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		1		horm
Inter 2.135 GHz See BW 51 kHz Span 57.14 M Sweep 27.21 Channel Power Power Spectral Density	-						
Res BW 51 kHz     #VBW 150 kHz     Sweep 27.2 r       Channel Power     Power Spectral Density							
				#VBW 150	KHZ		
47.58 dBm / 50 мнz 30.59 dBm /мнz	Chann	el Power		Power Spect	ral Density		
	4	7.58 dBm /	50 MHz	30.59	) dBm /мнz		
	4	7.58 dBm /	50 MHz	30.59	dBm /MHz		
JFile <pop 15="" 20="" 8="" bottom="" high="" low="" mhz="" q.png=""> saved</pop>							

Figure 8.1-64: Output power 2 carriers, QPSK, carrier 1: 15 MHz, carrier 2: 20 MHz, Port A, bottom range



	trum Analyzer - Channel P RF 50 Ω DC		SENSE:INT	ALIGN AUTO	11:10:12 AM Jul 10, 201
PASS	eq 2.15500000		Center Freq: 2.1 Trig: Free Run #Atten: 6 dB	55000000 GHz Avg Hold:>100/100	Radio Std: None Radio Device: BTS
700	]	REGain:Low	watten: 6 db		Radio Device: B I S
10 dB/div	Ref Offset 53.8 Ref 40.00 dB				
.og 30.0					
20.0					
10.0					
0.00			+		
10.0	;				
0.0			+		
0.0					
40.0					
50.0					
enter 2.1 Res BW			#VBW 1	160 kHz	Span 57.14 M Sweep 27.2 n
Res DW	51 KHZ		#VDW	150 KH2	Sweep 27.21
Chann	el Power		Power Sp	ectral Density	
	7.64 dBm		20	65 dBm /мнz	
4	7.64 ubiii	/ 50 MHZ	30	.05 UDITI /MHZ	
90				STATUS	
				No and the	

Figure 8.1-65: Output power 2 carriers, QPSK, carrier 1: 15 MHz, carrier 2: 15 MHz, Port A, top range

A Center Fre	rum Analyzer - Channel Pow RF 50 Ω DC PQ 2.135000000	GHz	SENSE:INT Center Freq: 2.13500 Trig: Free Run	ALIGN AUTO 00000 GHz AvglHold:>100/100	11:07:54 AM Ju Radio Std: None	
PASS		#FGain:Low	#Atten: 6 dB		Radio Device: BT	s
10 dB/div	Ref Offset 53.8 di Ref 40.00 dBn					
30.0						
20.0						
10.0						
0.00						
10.0						
20.0						
30.0		lowner				-
40.0						
50.0						
Center 2.1					Span 57.1	
#Res BW	51 kHz		#VBW 150	kHz	Sweep 2	7.2 m
Chann	el Power		Power Spec	tral Density		
4	7.88 dBm	/ 50 MHz	30.8	9 dBm /мнz		
sa 🔱 File <f< td=""><td>POP A bottom low 1</td><td>5 MHz high 15 MHz Q.p</td><td>ng&gt; saved</td><td>to status</td><td></td><td></td></f<>	POP A bottom low 1	5 MHz high 15 MHz Q.p	ng> saved	to status		

Figure 8.1-67: Output power 2 carriers, QPSK, carrier 1: 15 MHz, carrier 2: 15 MHz, Port B, bottom range

Center Fr	req 2.155000		<u> </u>		reg: 2.15500000		11:11:30 AM Radio Std: None	
PASS			#IFGain:Low	Trig: Fre #Atten:	e Run 6 dB	Avg Hold:>100/100	Radio Device: B	TS
10 dB/div	Ref Offset 5 Ref 40.00							
30.0								
20.0	-			-				
10.0		-						-
0.00				1				<u></u>
10.0	1/			1		- /		
-20.0	1			1				+
-30.0	1	-		1		for a second sec		have
40.0				-				+
-50.0								-
Center 2. #Res BW				#\	/BW 150 kH	z	Span 57 Sweep	.14 MH 27.2 m
						-		
Chann	nel Power			Pow	er Spectra	I Density		
4	7.67 dB	m / 50 N	1Hz		30.69	dBm /мнz		
ISO DElla C	POP B top low 2	0 MHz high 1	5 MHz Q png	> saved		<b>STATUS</b>		

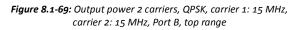
Figure 8.1-66: Output power 2 carriers, QPSK, carrier 1: 20 MHz, carrier 2: 15 MHz, Port A, top range

Keysight Spec	ctrum Analyzer - Ch RF 50 S	annel Power		SENSE:INT		LIGN AUTO		6 AM Jul 10, 2017	
nter Fr	eq 2.1350	00000 GHz		Toles For	req: 2.13500000	00 GHz Avg Hold:>100/100	Radio Std: I	None	
SS	]		#FGain:Low	#Atten:					
dB/div	Ref Offse Ref 40.0								
0									
0				-	_	,		-	
0								+++-	
0	1							++-	
0								$\square$	
0	1		herester		and the second s			- Marina	
0									
enter 2.4 tes BW	135 GHz 51 kHz			#\	/BW 150 kH	Iz	Span Swee	o 57.14 MH ep 27.2 m	
Chann	nel Power	r		Powe	er Spectra	I Density			
4	7.98 dl	Bm / 50	MHz		30.99	dBm /мнz			
JFile <	POP B botto	m low 15 MHz	high 15 MHz Q.	png> saved		STATUS			

Figure 8.1-68: Output power 2 carriers, QPSK, carrier 1: 15 MHz, carrier 2: 20 MHz, Port B, bottom range



	trum Analyzer - Chann RF 50 Ω eq 2.155000	000 GHz	FGain:Low	Talas Francis	q: 2.15500000 Run	IGN AUTO 0 GHz Avg Hold:>	100/100	11:10:31 Radio Std: N Radio Devic	
10 dB/div	Ref Offset 53 Ref 40.00	.8 dB	FGain:Low	wettern, o o				Radio Devic	
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0.00	1								
80.0				·····					-
enter 2.1 Res BW				#VB	W 150 KH	7		Span	57.14 MH
	el Power			Power	Spectra	l Density	,		
4	8.05 dB	m / 50 Mi	Ηz		31.06 (	dBm /M	IHz		
ia 🗼 File <f< td=""><td>POP A top low 1</td><td>5 MHz high 15</td><td>MHz Q.png&gt; s</td><td>aved</td><td></td><td><b>STATUS</b></td><td></td><td></td><td></td></f<>	POP A top low 1	5 MHz high 15	MHz Q.png> s	aved		<b>STATUS</b>			



	ectrum Analyzer - Char № 50 Ω req 2.13500	DC		Talas Free	q: 2.13500000	LIGN AUTO 0 GHz Avg Hold:>	100/100	11:12:49 Radio Std: N	AM Jul 10, 2017
PASS			#FGain:Low	#Atten: 6 d	iB	Avginoid:>	100/100	Radio Devic	BTS
10 dB/div	Ref Offset					_			
30.0									
20.0	1						-		~
10.0									+
-10.0	1/1								1
-20.0	1			1					
-30.0		_		1					1
-40.0	1								
-50.0		-							
Center 2 #Res BW				#VE	3W 150 kH	z			57.14 MHz p 27.2 ms
Chan	nel Power			Power	Spectra	I Density			
	47.00 dE	8m / 50 M	IHz		30.01	dBm /M	1Hz		
MSG						<b>STATUS</b>			
100						Norwing .			

Figure 8.1-71: Output power 2 carriers, QPSK, carrier 1: 20 MHz, carrier 2: 20 MHz, Port A, bottom range

15500000 GHz / Offset 53.8 dB / 40.00 dBm	#FGain:Low		rq: 2.15500000 Run JB	Avg(Hold:>100/	100	ndio Std: None	-
		1					
		A					1
		1		hand			-
	_						-
							-
Hz						Span 57	.14 MH
z		#VE	SW 150 kH	z		Sweep	27.2 m
ower		Power	Spectra	I Density			
3 dBm / 50 I	MHz		31.04	dBm /мн	z		
				STATUS			
	z	Z	z #ve ower Power	z #VBW 150 kH ower Power Spectra	z #VBW 150 kHz ower Power Spectral Density	z #VBW 150 kHz ower Power Spectral Density 3 dBm / 50 MHz 31.04 dBm /MHz	z #VBW 150 KHz Sweep ower Power Spectral Density 3 dBm / 50 MHz 31.04 dBm /MHz

Figure 8.1-70: Output power 2 carriers, QPSK, carrier 1: 20 MHz, carrier 2: 15 MHz, Port B, top range

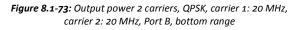
enter Freq 2.155000000 GHz     Radio Std: None       ASS     referer Freq: 2.15000000 GHz     Radio Std: None       ASS     Ref Offset63.8 dB       OdB/div     Ref Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Offset63.8 dB       Odd     Image: Std: None       Ref Offset63.8 dB     Std: Std: None       Ref Offset63.8 dB     Std: S	110, 201
ASS Ref Offset S38 dB Ref Offset S38 dB 19 10 10 10 10 10 10 10 10 10 10	
additiv     Ref 40.00 dBm       additiv     Ref 40.00 dBm       additiv     additiv       additiv     a	s
Channel Power Spectral Density	
Image: Channel Power     Power Spectral Density	
o     o <td>-</td>	-
Image: Channel Power     Power Spectral Density	
Image: state of the state o	L.m.
Inter 2.155 GHz Span 57. Ies BW 51 kHz #VBW 150 kHz Sweep : Channel Power Power Spectral Density	
tes BW 51 kHz #VBW 150 kHz Sweep : Channel Power Power Spectral Density	
	14 MH 27.2 m
······	
47.14 dBm / 50 мнz 30.15 dBm /мнz	
File <pop 20="" b="" high="" low="" mhz="" q.png="" top=""> saved</pop>	

Figure 8.1-72: Output power 2 carriers, QPSK, carrier 1: 20 MHz, carrier 2: 20 MHz, Port A, top range

Testing data FCC 27.50(b) and RSS-139, 4.1 Maximum output power at RF antenna connector FCC Part 27 and RSS-139, Issue 3



Keysight Spec	ctrum Analyzer - Chi RF 50 Ω			SENSE:INT		JGN AUTO		- 🗐 🖉 📕
enter Fr	eq 2.13500			Center Fre	rg: 2.13500000	0 GHz	Radio Std: No	
ASS	]		#FGain:Low	Trig: Free #Atten: 6		Avg Hold:>100/100	Radio Device:	BTS
0 dB/div	Ref Offset Ref 40.0							
.og 30.0								
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0.0	1			-			_	
0.0	1		_	Lawrence				1
1.0	1							
0.0								
enter 2. Res BW				#VE	SW 150 KH	z		7.14 MH
Chann	nel Power			Power	r Spectra	I Density		
4	7.37 dE	3m / 50 M	ИHz		30.38	dBm /мнz		



enter Fre	g 2.155000		#FGain:Low		rq: 2.15500000 Run	IGN AUTO 0 GHz Avg Hold:>	100/100	Radio Std: N Radio Device	
0 dB/div	Ref Offset 53 Ref 40.00								
.og 30.0									
20.0				1					<del>م ا</del>
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50.0	-	-							
Center 2.15 Res BW 5				#VE	3W 150 kH	z		Span Swee	57.14 MH p 27.2 m
Channe	el Power			Power	r Spectra	I Density			
47	7.46 dB	m / 50 I	MHz		30.47	dBm /N	IHz		

Figure 8.1-74: Output power 2 carriers, QPSK, carrier 1: 20 MHz, carrier 2: 20 MHz, Port B, top range

Table 8.1-6: Complementary Cumulative Distribution Function (CCDF) of the PAPR reduction measurement results

Remarks	Frequency, MHz	0.1% CCDF, dB	PAPR reduction limit, dB	Margin, dB
QPSK, 5 MHz, Ant A	2112.5	6.57	13.00	6.43
16QAM, 5 MHz, Ant A	2112.5	6.57	13.00	6.43
64QAM, 5 MHz, Ant A	2112.5	6.58	13.00	6.42
256QAM, 5 MHz, Ant A	2112.5	6.60	13.00	6.40
QPSK, 5 MHz, Ant A	2145.0	6.56	13.00	6.44
QPSK, 5 MHz, Ant A	2177.5	6.57	13.00	6.43
QPSK, 5 MHz, Ant B	2112.5	6.59	13.00	6.41
16QAM, 5 MHz, Ant B	2112.5	6.58	13.00	6.42
64QAM, 5 MHz, Ant B	2112.5	6.59	13.00	6.41
256QAM, 5 MHz, Ant B	2112.5	6.59	13.00	6.41
QPSK, 5 MHz, Ant B	2145.0	6.59	13.00	6.41
QPSK, 5 MHz, Ant B	2177.5	6.59	13.00	6.41
QPSK, 10 MHz, Ant A	2115.0	6.64	13.00	6.36
QPSK, 10 MHz, Ant A	2145.0	6.54	13.00	6.46
QPSK, 10 MHz, Ant A	2175.0	6.60	13.00	6.40
QPSK, 10 MHz, Ant B	2115.0	6.61	13.00	6.39
QPSK, 10 MHz, Ant B	2145.0	6.58	13.00	6.42
QPSK, 10 MHz, Ant B	2175.0	6.61	13.00	6.39
QPSK, 15 MHz, Ant A	2117.5	6.68	13.00	6.32
QPSK, 15 MHz, Ant A	2145.0	6.55	13.00	6.45
QPSK, 15 MHz, Ant A	2172.5	6.67	13.00	6.33
QPSK, 15 MHz, Ant B	2117.5	6.67	13.00	6.33
QPSK, 15 MHz, Ant B	2145.0	6.56	13.00	6.44
QPSK, 15 MHz, Ant B	2172.5	6.67	13.00	6.33
QPSK, 20 MHz, Ant A	2120.0	6.71	13.00	6.29
QPSK, 20 MHz, Ant A	2145.0	6.56	13.00	6.44
QPSK, 20 MHz, Ant A	2170.0	6.70	13.00	6.30
QPSK, 20 MHz, Ant B	2120.0	6.69	13.00	6.31
QPSK, 20 MHz, Ant B	2145.0	6.55	13.00	6.45
QPSK, 20 MHz, Ant B	2170.0	6.70	13.00	6.30



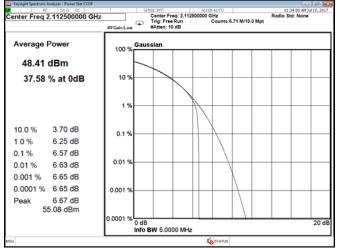


Figure 8.1-75: CCDF, QPSK, 5 MHz, Port A, Low channel

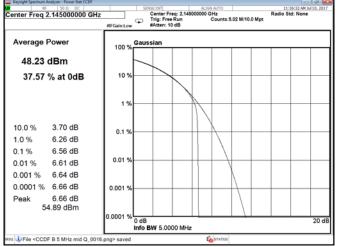


Figure 8.1-76: CCDF, QPSK, 5 MHz, Port A, Mid channel

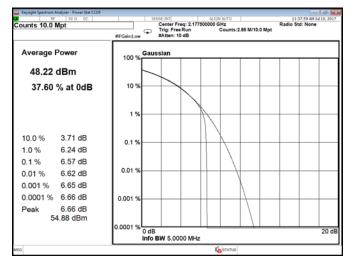


Figure 8.1-77: CCDF, QPSK, 5 MHz, Port A, High channel

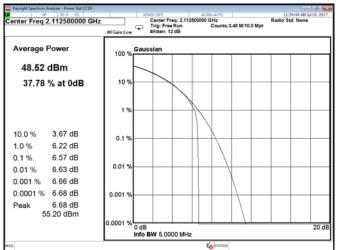


Figure 8.1-78: CCDF, 16QAM, 5 MHz, Port A, Low channel



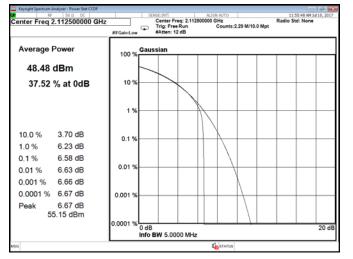


Figure 8.1-79: CCDF, 16QAM, 5 MHz, Port A, Low channel

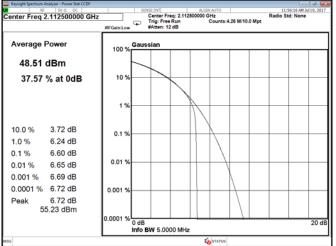


Figure 8.1-80: CCDF, 256QAM, 5 MHz, Port A, Low channel

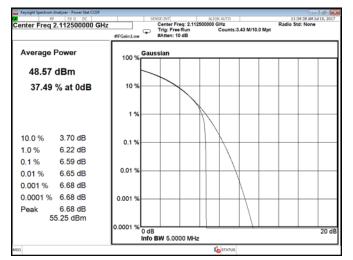


Figure 8.1-81: CCDF, QPSK, 5 MHz, Port B, Low channel

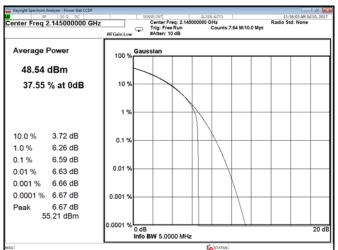


Figure 8.1-82: CCDF, QPSK, 5 MHz, Port B, Mid channel



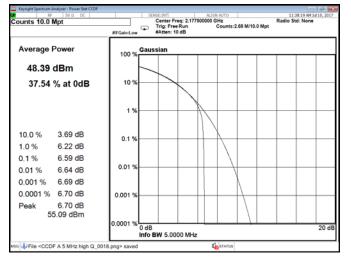


Figure 8.1-83: CCDF, QPSK, 5 MHz, Port B, High channel

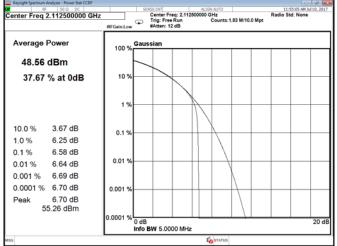


Figure 8.1-84: CCDF, 16QAM, 5 MHz, Port B, Low channel

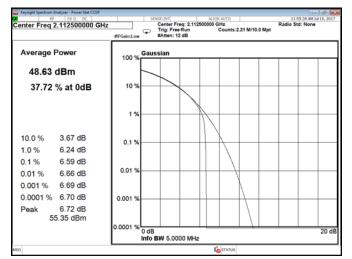


Figure 8.1-85: CCDF, 16QAM, 5 MHz, Port B, Low channel

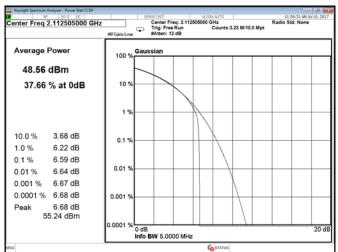


Figure 8.1-86: CCDF, 256QAM, 5 MHz, Port B, Low channel



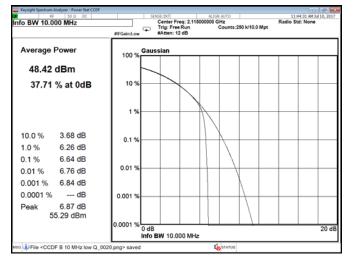


Figure 8.1-87: CCDF, QPSK, 10 MHz, Port A, Low channel

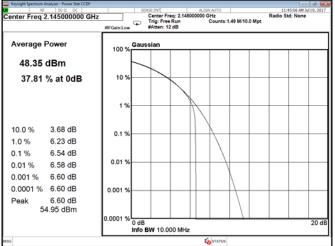


Figure 8.1-88: CCDF, QPSK, 10 MHz, Port A, Mid channel

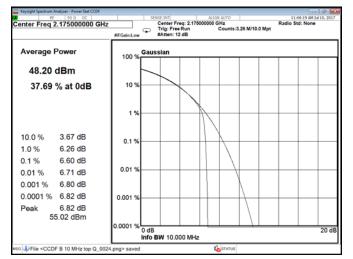


Figure 8.1-89: CCDF, QPSK, 10 MHz, Port A, High channel

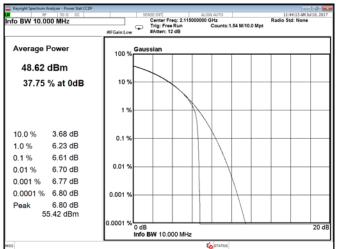


Figure 8.1-90: CCDF, QPSK, 10 MHz, Port B, Low channel



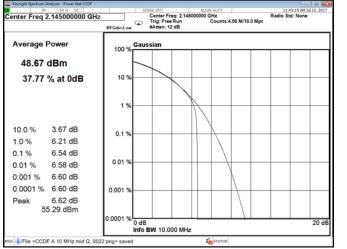


Figure 8.1-91: CCDF, QPSK, 10 MHz, Port B, Mid channel

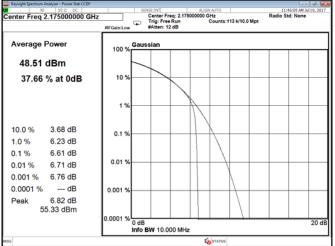


Figure 8.1-92: CCDF, QPSK, 10 MHz, Port B, High channel

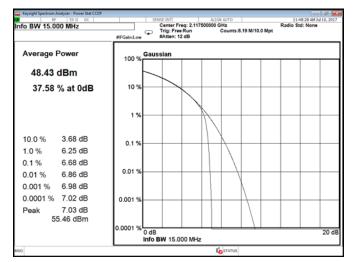


Figure 8.1-93: CCDF, QPSK, 15 MHz, Port A, Low channel

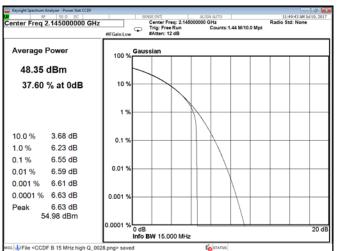


Figure 8.1-94: CCDF, QPSK, 15 MHz, Port A, Mid channel



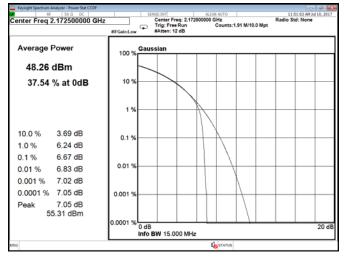


Figure 8.1-95: CCDF, QPSK, 15 MHz, Port A, High channel

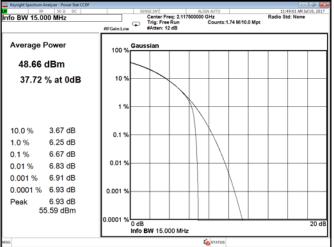


Figure 8.1-96: CCDF, QPSK, 15 MHz, Port B, Low channel

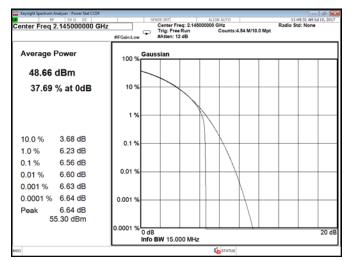


Figure 8.1-97: CCDF, QPSK, 15 MHz, Port B, Mid channel

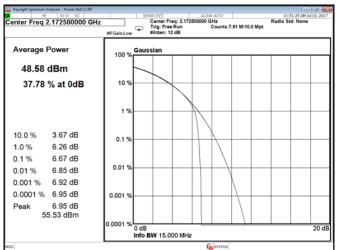


Figure 8.1-98: CCDF, QPSK, 15 MHz, Port B, High channel



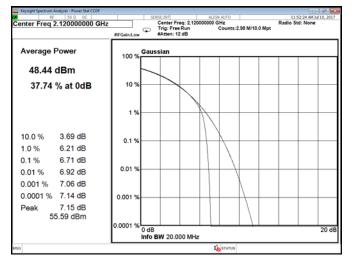


Figure 8.1-99: CCDF, QPSK, 20 MHz, Port A, Low channel

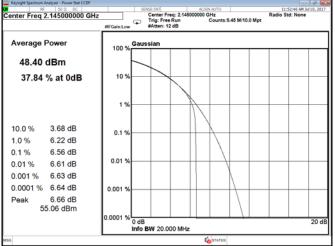


Figure 8.1-100: CCDF, QPSK, 20 MHz, Port A, Mid channel

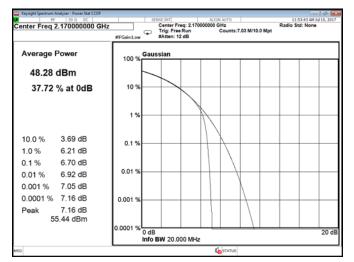


Figure 8.1-101: CCDF, QPSK, 20 MHz, Port A, High channel

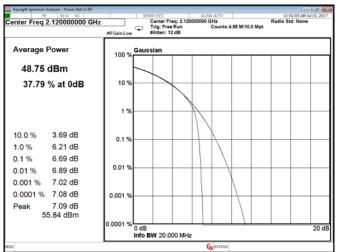


Figure 8.1-102: CCDF, QPSK, 20 MHz, Port B, Low channel

Testing data FCC 27.50(b) and RSS-139, 4.1 Maximum output power at RF antenna connector FCC Part 27 and RSS-139, Issue 3



11:53:28 AM Ju Radio Std: None

20 dB

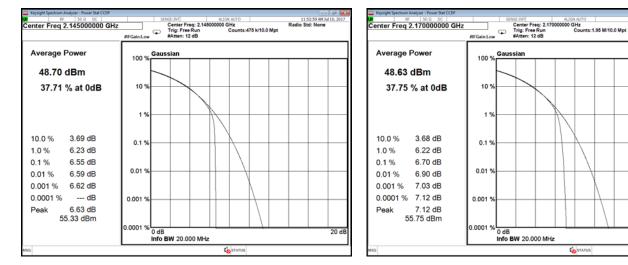
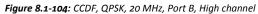


Figure 8.1-103: CCDF, QPSK, 20 MHz, Port B, Mid channel



**K**STATUS



# 8.2 FCC 27.53 and RSS-139, 4.2 Spurious emissions at RF antenna connector

# 8.2.1 Definitions and limits

FCC:

# (h) AWS emission limits

(1) General protection levels. Except as otherwise specified below, for operations in the 1695–1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least  $43 + 10 \log_{10}$  (P) dB.

### (3) Measurement procedure.

(i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

(ii) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.

(iii) The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

#### RSS-139, Section 6.6:

i. In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least  $43 + 10 \log_{10} p$  (watts) dB.

ii. After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least 43 + 10 log 10 p (watts) dB.

# 8.2.2 Test summary

Test date	July 10, 2017	Temperature	22 °C
Test engineer	Andrey Adelberg	Air pressure	1009 mbar
Verdict	Pass	Relative humidity	33 %

# 8.2.3 Observations, settings and special notes

The spectrum was searched from 30 MHz to the 10<sup>th</sup> harmonic. All measurements were performed using an average detector. Limit line was adjusted for MIMO 2×2 operation by 3 dB (for 2 ports:  $10 \times Log_{10}(2)$ ): -13 dBm - 3 dB = -16 dBm RBW 1 MHz, VBW was wider than RBW. Testing data Clause 27.53 and RSS-139, 4.2 Spurious emissions at RF antenna connector FCC Part 27, RSS-139, Issue 3



# 8.2.4 Test data

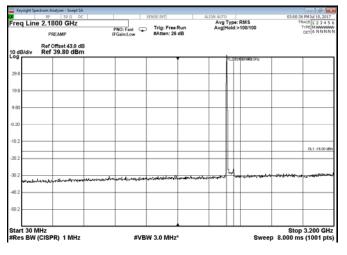
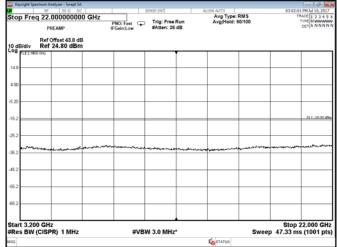
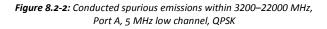


Figure 8.2-1: Conducted spurious emissions within 30–3200 MHz, Port A, 5 MHz low channel, QPSK

verage	RF 50 Ω DC			SENSE:INT		IGN AUTO	Type:	RMS	T	PM Jul 10, 2017
relage	PREAMP		PNO: Fast G	Trig: Free R #Atten: 26 d	iB	Avg[F	lold:>	•1/1		DET A N N N N
dB/div	Ref Offset 43.8 dB Ref 39.80 dBm									
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							11			
9.8							4			
80										
20			-							
0.2										
										DL1 -16.00 dB
0.2							11			
							AL.			
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12										
art 30 M	/Hz (CISPR) 1 MHz			W 3.0 MHz*				-	Stop 8.000 m	3.200 GH

Figure 8.2-3: Conducted spurious emissions within 30–3200 MHz, Port A, 5 MHz mid channel, QPSK





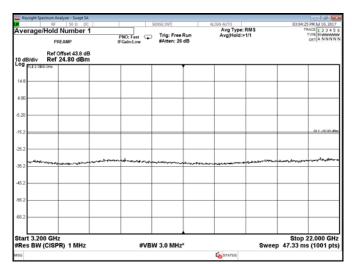
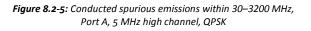


Figure 8.2-4: Conducted spurious emissions within 3200–22000 MHz, Port A, 5 MHz mid channel, QPSK



Keysight Spectrum Analyzer									
	50 Ω DC		SENSE:INT	A	IGN AUTO			03:06:57	PM Jul 10, 2017
verage/Hold Nu PREAM		PNO: Fast FGain:Low	Trig: Free F #Atten: 26 d	Run dB	Avgit	fold	::RMS :>1/1		ACE 1 2 3 4 5 TYPE MWWWW DET A NNNN
Ref Offse 0 dB/div Ref 39.8									
						14	2210016602.0Hz		
29.8						Ц			
						11			
9.8						Ц			
180						1			
20						1			
0.2						-#			
						Щ			DL1-16.00 dB
0.2						1			
						I A			
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and the start of the second	ANT CONTRACTOR								
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0.2						$\vdash$			
tart 30 MHz								Ston	3.200 GH
Res BW (CISPR)	1 MHz	#VB	W 3.0 MHz*				Sweet	5 8.000 ms	



Keysight Sp	ectrum Analyzer - Swept SA RF 50 Ω DC			SENSE:INT		ALIGN AUTO			43,59,43	PM Jul 10, 2017
req Lin	e 2.1800 GHz					Avg	Туре	RMS	02:30:44 TF	ACE 1 2 3 4 5
	PREAMP		PNO: Fast Gain:Low	Trig: Free #Atten: 26	dB	Avgit	fold	>100/100		DET A N N N N
0 dB/div	Ref Offset 43.8 dE Ref 39.80 dBm									
°g					1		14	312010602-0112		
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tart 30 I	1112									3.200 GH
	(CISPR) 1 MHz		#VB	W 3.0 MHz				Swee	p 8.000 ms	(1001 pts

Figure 8.2-7: Conducted spurious emissions within 30–3200 MHz, Port B, 5 MHz low channel, QPSK

X	er 1 21.	Analyzer - Swept SJ 50 Ω Di 718000000 PREANP	0000 GHz	PNO: Fast G	SENSE:INT	Run	IGN AUTO Avg Type: Avg Hold:>	RMS 1/1	TR	ACE 1 2 3 4 5 DET A NNNN
IO dB	Ref	f Offset 43.8 d f 24.80 dBn	в					м	kr1 21.7 -30.	18 0 GH: 150 dBn
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4.80										
6.20										
15.2										DLLASIDAR
25.2		-								
36.2		and the second				kha				
45.2										
65.2										
65.2										
	3.200 GI BW (CIS	Hz PR) 1 MHz		#VE	W 3.0 MHz	*		Sweep	Stop 2 47.33 ms	22.000 GHz (1001 pts
isg 🔙	State Reg	jister 2 saved					<b>STATUS</b>			

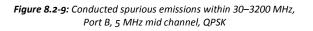
Figure 8.2-6: Conducted spurious emissions within 3200–22000 MHz, Port A, 5 MHz high channel, QPSK

0	ight Spectrum Analyzer - Swi RF 50 Ω Freq 22.000000	DC		SENSE:INT		IGN AUTO Avg Type: Avg[Hold: 2	RMS	TF	PM Jul 10, 2011
0 48	PREAMP Ref Offset 43.	8 dB	PNO: Fast FGain:Low	Trig: Free #Atten: 26	Run dB	Avg Hold: 2	2/100		DET A NNNI
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4.80									
5.20									
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ō.2		_							
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tart	3.200 GHz							Ston	22.000 GH
	BW (CISPR) 1 M	Hz	#VB	W 3.0 MHz			Sweep	47.33 ms	s (1001 p
9G						<b>STATUS</b>			

Figure 8.2-8: Conducted spurious emissions within 3200–22000 MHz, Port B, 5 MHz low channel, QPSK



Keysight Spect	rum Analyzer - Swept SA RF 50 Ω DC		SENSE:INT	ALIGN AUTO		03:06:04 PM Jul 10, 2017
verage/H	PREAMP	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Type: Avg Hold:>	RM S 1/1	TRACE 1 2 3 4 5 TIPE MWWWW DET A NNNN
	Ref Offset 43.8 dB Ref 39.80 dBm					
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tart 30 Mi	17		· ·			Stop 3.200 GH
	CISPR) 1 MHz	#V	BW 3.0 MHz*		Sweep 8	.000 ms (1001 pts



Keysight Sp	ectrum Analyzer - Swept SA									
Vorago	RF 50 Q DO			SENSE:INT	A	LIGN AUTO		RMS		PMJul 10, 2017
verage	Hold Number	1	PNO: Fast	Trig: Free	Run	Avgit	fold	:>1/1		DPE NWWW
	PREAMP	1	IFGain:Low	#Atten: 26	dB					DETANNN
0 dB/div	Ref Offset 43.8 dE Ref 39.80 dBm									
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tart 30 N								-	Stop	3.200 GH
Res BW	(CISPR) 1 MHz		#VE	W 3.0 MHz	*			Sweep	5 8.000 ms	; (1001 pts

Figure 8.2-11: Conducted spurious emissions within 30–3200 MHz, Port B, 5 MHz high channel, QPSK

stop		2.00000000		PNO: Fast	SENSE:INT	tun	Avg Type: F Avg[Hold: 1	RM S 6/100	TR	PM3ul 10, 2017 ACE 1 2 3 4 5 TYPE MWWWW
		PREAMP		IFGain:Low	#Atten: 26 d	iB				DETANNN
		f Offset 43.8 d								
0 dB	div R	ef 24.80 dBn	n							
	122.1800 GH	£			I I					
14.8										
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65.2										
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l										
	3.200 G	Hz SPR) 1 MHz		#3/0	3W 3.0 MHz*			Current	Stop 2 47.33 ms	2.000 GH
sa	DW (CI	SPR) 1 MH2		#VE	5W 3.0 MH2		<b>STATUS</b>	aweet	5 47.55 ms	(1001 pts

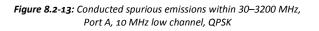
Figure 8.2-10: Conducted spurious emissions within 3200–22000 MHz, Port B, 5 MHz mid channel, QPSK

lari	(er 1 20.	PREAMP	10000 GHz	PNO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg Type: Avg[Hold:>	1/1		TIPE MWWW DET A N N N
0 dE		f Offset 43.8 ef 24.80 dB						M	kr1 20.7 -30.	21 6 GI 546 dB
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6.2			-							
6.2										
	3.200 G	HZ SPR) 1 MH:	z	#VB	W 3.0 MHz			Sweep	47.33 ms	22.000 GI

Figure 8.2-12: Conducted spurious emissions within 3200–22000 MHz, Port B, 5 MHz high channel, QPSK



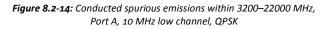
Keysight Sp	ectrum Analyzer - Swept SA RF 50.0 DC									
tart Ere	q 30.000000 M			SENSE:INT	A	IGN AUTO		RMS		PM3ul 10, 2017
dait Fie	PREAMP		PNO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avgit	fold:	>1/1		DET A NNNN
) dB/div	Ref Offset 43.8 dE Ref 39.80 dBm									
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Res BW	(CISPR) 1 MHz		#VB	W 3.0 MHz	•			Sweep	8.000 ms	5 (1001 pt



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) dB/div	Ref Offset 43.8 df Ref 39.80 dBm	B 1								
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Kes BW	(CIOPR) 1 MHZ		#VB	W 3.0 MHZ				Sweep	a.000 ms (1	oo i pt

Figure 8.2-15: Conducted spurious emissions within 30–3200 MHz, Port A, 10 MHz mid channel, QPSK

Start Fr	eq 3.200000	000 GHz	PNO: Fast G	Trig: Free Ru #Atten: 26 dB	n	Avg Type: F Avg Hold:>*	RM S 1/1	TR. T	PM3ul 10, 2017 ACE 1 2 3 4 5 TYPE M WWWW DET A N N N N
0 dB/div	Ref Offset 43 Ref 24.80 c	.8 dB 1Bm					м	kr1 20.87 -30.	72 0 GH 638 dBr
14.8		_							
4.80		_							
5.20									
15.2									Di 1 -16 00 all
82	mus a side tan						مىر ئىجىسايدىن		
36.2									
45.2									
56.2									
55.2									
	00 GHz V (CISPR) 1 M		+1/8	W 3.0 MHz*			Sween	Stop 2 47.33 ms	2.000 GH

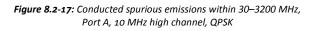


itar	t Freq 3	.20000000 PREAMP	1	PNO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg Type:   Avg[Hold:>	1/1	1	ACE 1 2 3 4 DPE MWWW DET A NNN
0 dE	Re Ndiv Re	ef Offset 43.8 d ef 24.80 dBi	iB m					M	kr1 20.8 -30.	15 6 GH 435 dB
14.8	122.1800.045									
4.0										
.80										
20		_								
5.2										01.1500
5.2										-+1-
5.2		man	allegraphicae	-	water and the second	- and	tal and an an inclusion of	and the second second		
5.2										
5.2										
62										
	3.200 G	Hz SPR) 1 MHz		#VB	W 3.0 MHz			Sween	Stop 2 47.33 ms	2.000 G

Figure 8.2-16: Conducted spurious emissions within 3200–22000 MHz, Port A, 10 MHz mid channel, QPSK



Keysight Spe	ctrum Analyzer - Swept SA									
	RF 50 Ω DC	•		SENSE:INT	A	IGN AUTO		RMS		PMJul 10, 2017 RACE 1 2 3 4 5
	q 30.000000 Mi PREAMP		PNO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avgit	fold:	>1/1		DET A NNNN
0 dB/div	Ref Offset 43.8 dB Ref 39.80 dBm									
							r-je	1000-6602-0H2		
9.8										
20.8										
9.8							h			
							L IL			
80							Ht			
20							Ht			
0.2						-	⊢⊪			
							1			DL1 -16.00 dB
1.2							-#-			
							11			
0.2					Ark blacks	and the second	M.	and the second second		حصميم
Jorente		41.m.18.ms <sup>1</sup> 40.m <sup>14</sup> 11	A.M.C. ALALAN	A COLORADOR AND	and the second second		11			
12							$\square$			
1.2							$\square$			
tart 30 N								-		3.200 GH
Res BW	(CISPR) 1 MHz		#VB	W 3.0 MHz	*			Sweep	8.000 m	s (1001 pts



art Fr	eq 30.	50 Q DC	Hz		SENSE:INT		IGN AUTO	Туре	RMS	TR	PM Jul 10, 201 ACE 1 2 3 4 5
	-	EAMP		PNO: Fast Gain: Low	#Atten: 26	dB	Avgit	fold	:>1/1	1	DET A NNN
dB/div		)ffset 43.8 dE 39.80 dBm									
۳								YLIP	12112076802 OH2		
								Ш			
								11			
.8								H	-		
80								$\mathbb{H}$			
20								$\parallel$			
12											
								Ш			DL1 -16.00 dt
2								$\mathbb{H}$			
2								Ч	and the second second	and services.	والعلدال والمار
-	~~~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	the second s	بمالدمامينامور	a a gal an						
2								$\vdash$			
2											
								IT			
art 30	MHz									Stop	3.200 GH
es BW	(CISP	R) 1 MHz		#VB	W 3.0 MHz	*			Swee	p 8.000 ms	(1001 pt

Figure 8.2-19: Conducted spurious emissions within 30–3200 MHz, Port B, 10 MHz low channel, QPSK

100	ctrum Analyzer - Swept SA RF 50 Ω DC q 3.200000000	GHz	NO: Fast	SENSE:INT		Avg Type:   Avg Type:	RM S	TF	PMJul 10, 2017 IACE 1 2 3 4 5 6
0 dB/div	PREAMP Ref Offset 43.8 df Ref 24.80 dBm	1F B	Gain:Low	#Atten: 26	dB		N	/kr1 21.7	36 8 GHz 749 dBm
14.8	0.042								
4.80									
15.2									Di 1.45.00.40m
35.2 35.2	My hade and have a reader for			**		-		ىمەر يەرجورورونو ي	
45.2									
55.2									
Start 3.20								Stop 2	2.000 GHz
	(CISPR) 1 MHz alled State Register	2	#VB	W 3.0 MHz	•	<b>STATUS</b>	Swee	p 47.33 ms	s (1001 pts)

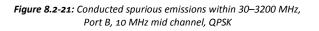
Figure 8.2-18: Conducted spurious emissions within 3200–22000 MHz, Port A, 10 MHz high channel, QPSK

Start	-	E 50 Ω 0 200000000	0 GHz	NO: Fast Gain:Low	Trig: Free	Run	Avg Type: F Avg[Hold:>*	RM S 1/1	TR	PMJul 10, 201 ACE 1 2 3 4 TYPE MWWW DET A N N N
0 dB	Re div Re	f Offset 43.8 d	в					м	kr1 21.7 -30.	74 4 GH 507 dB
Ĩ	2 2.1800 GHz					ľ				
4.8										
.80										
20										
5.2										01.15500
5.2										
5.2	and the second					warman.			*****	-slapera
5.2										
ō.2										
62										
	3.200 G BW (CIS	Hz SPR) 1 MHz		#VB	W 3.0 MHz			Sweep	Stop 2 47.33 ms	2.000 GI

Figure 8.2-20: Conducted spurious emissions within 3200–22000 MHz, Port B, 10 MHz low channel, QPSK



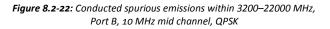
Keysight Spectrum Analyzer - So RF 50 S		SENSE:INT	ALIGN AUTO		03:14:39 PM Jul 10, 2017
art Freq 30.0000			un Avg/H	Type: RMS fold:>1/1	TRACE 1 2 3 4 5 TYPE MWWWW DET A NNNN
Ref Offset 4 dB/div Ref 39.80					
-				P12920120682-0Hz	
9.8					
9.8				1	
80					
~					
20					
20					
2					0L1 -16:00 d8
					DL1-16.00 dD
12					
12	ومعمدون السور	he have the second warder	. Barrist Million and the		
I I					
12					
12					
art 30 MHz					Stop 3.200 GH
Res BW (CISPR) 1 N	44.5	#VBW 3.0 MHz*		0	ep 8.000 ms (1001 pts



Keysight Sp	ectrum Analyzer - Swept Si									
	RF 50 Ω D			SENSE:INT	AL	IGN AUTO		RMS		RACE 1 2 3 4 5
tart Fre	q 30.000000 N		PNO: Fast	Trig: Free	Run	Avgit	Hold:	>1/1		TIPE NWWW
	PREAMP		FGain:Low	#Atten: 26	dB					DETANNN
0 dB/div	Ref Offset 43.8 d Ref 39.80 dBr									
					(		11.38	0102010802.0Hz		
		1					11			
29.8										
		1								
19.8		1	1				L Ì			1
19.8										
		1	1							1
9.80			-				+#			-
		1	1							1
.20										
		1								
0.2		+					Ht			
							14			DL1 -16.00 dB
0.2							14			
		1					1.4			
		1					Ы			
30.2	and the second states of	anne same	ليوميه ومرادية	allannanger	and and a second second	Num	1	Contraction of the second		
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40.2							++			
		1	1							1
50.2										
~ -							ΓT			
		1	1							1
tart 30 f	111-							1	Stor	3.200 GH
	(CISPR) 1 MHz		#\/B	W 3.0 MHz				Swaa	p 8.000 m	e (1001 ptc
NCS DW	(GIGER) TIMEZ		#10	34 3.0 WHZ				owee	P 0.000 III	s (1001 pts

Figure 8.2-23: Conducted spurious emissions within 30–3200 MHz, Port B, 10 MHz high channel, QPSK

Start Fre	q 3.2000000 PREAMP		PNO: Fast 🕞 FGain:Low	Trig: Free F #Atten: 26 c	tun IB	Avg Type: Avg Hold:>	1/1	т	ACE 1 2 3 4 5 THE MUNICIPAL ANNIN
0 dB/div .09 FL22.180	Ref Offset 43.8 Ref 24.80 d	3 dB Bm					M		364 dBr
14.8									
4.80									
5.20									
15.2									013500 d
25.2			- James and a start of the star	water and the second second					
35.2									
45.2									
55.2									
65.2									
Start 3.20	0 GHz (CISPR) 1 MH			W 3.0 MHz*			-	Stop 2 47.33 ms	2.000 GH

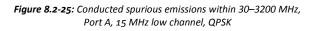


Star	t Freq	3.20000000		PNO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg Type:   Avg Hold:>	1/1	,	ACE 1 2 3 4 1
0 dE		Ref Offset 43.8 Ref 24.80 dE						M	kr1 21.5 -30.	073 dB
14.8	122.1800.0									
1.80										
20										
5.2			-							011-1600
5.2										-
5.2	****		****	**-**	*********	a	وهراجارها ووجورية		i-shee-sheet-she	an a
5.2										
6.2										
62										
~-										
	3.200	GHz ISPR) 1 MH	7	#VB	W 3.0 MHz			Sween	Stop 2 47.33 ms	2.000 G

Figure 8.2-24: Conducted spurious emissions within 3200–22000 MHz, Port B, 10 MHz high channel, QPSK



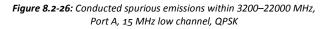
Keysight Spectrum Analyzer - Swept SA RF S0 Ω DC	course and	ALIGN AUTO	03:18:06 PM Jul 10, 2017
RF 50 Ω DC	SENSE:INT	Avg Type:	RMS TRACE 1 2 3 4 5
PREAMP	PNO: Fast Trig: Free F FGain:Low #Atten: 26	tun Avg Hold:> IB	>1/1 TYPE MWWWW DET A NNNN
Ref Offset 43.8 dB 0 dB/div Ref 39.80 dBm			
		V.283	1020/6602-0Hz
29.8		1	
La com			
9.8			
.80			
20			
0.2			
			DL1 -16.00 dB
0.2			
0.2 www.selanser.sel	A second state and and the state	anterior and the	
www.andline.co.life.streader.co.go.areanit			
0.2			
0.2			<u>                                      </u>
tart 30 MHz			Stop 3.200 GH
Res BW (CISPR) 1 MHz	#VBW 3.0 MHz*		Sweep 8.000 ms (1001 pts



Keysight Sp	RF 50 Q DC			SENSE:INT		JGN AUTO			03:19:3	PM Jul 10, 2017
art Fre	q 30.000000 M	Hz		Jan State St				RMS	T?	RACE 1 2 3 4 5
	q 50.000000 iiii	12	NO: Fast	Trig: Free	Run	Avgit	fold	>1/1		TIPE NWWW
	PREAMP	16	Gain:Low	#Atten: 26	dB					DETANNN
dB/div	Ref Offset 43.8 dB Ref 39.80 dBm									
" <b></b>							PPP	211 201 6 6 2 CH2		
							I III			
9.8										
9.8							III			
							ш			
80							Щ			
20							HH	-	1	
12							Щ			
							ШT			0L1 -16:00 dE
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12							H٩			
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12							14	a terrestander		
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0.2							H			
0.2										
0.2							H			
tart 30 N									Stop	3.200 GH
tes BW	(CISPR) 1 MHz		#VB	W 3.0 MHz	*			Swee	p 8.000 m	s (1001 pts

Figure 8.2-27: Conducted spurious emissions within 30–3200 MHz, Port A, 15 MHz mid channel, QPSK

tart Fre	RF 50 Ω q 3.200000 PREAMP	000 GHz	PNO: Fast	Trig: Free I #Atten: 26	Run	Avg Type: F Avg[Hold:>1	/1	TR. T	PMJul 10, 2017 ACE 1 2 3 4 5 YPE MWWWW DET A NNNN
dB/div	Ref Offset 43 Ref 24.80 (						N	lkr1 21.20 -30.	56 8 GH 535 dBn
4.8									
80									
20									
2	_	_							011.55.00.df
2									<b>♦</b> <sup>1</sup>
2	Marana and and an and an and an	ngeron berneketigent	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	n.honaariyyy		an a	ىر. بەرەر ھەرىر يەرىيە	******	****
2									
2		_							
2	_								
art 3.20	0 GHz (CISPR) 1 M		#\/B	W 3.0 MHz			Swaar	Stop 2 0 47.33 ms	2.000 GH

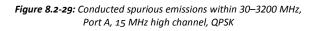


Start F		200000000 REAMP		PNO: Fast FGain:Low	Trig: Free #Atten: 26	Run dB	Avg Type:   Avg[Hold:>	1/1		TIPE MWWW DET A NNN
0 dB/di		Offset 43.8 dB 24.80 dBm						M	kr1 21.8 -30.	49 6 GF .387 dB
14.8	.1800-042									
.80										
20										<u> </u>
5.2										01.146.001
5.2										
5.2	******	138	and the second second	and the second state		- Andrewski and a start of the	******	and the second s		
5.2										
5.2										<u> </u>
6.2										
	200 GH W (CISF	z PR) 1 MHz		#VB	W 3.0 MHz	*		Sweep	Stop 2 47.33 m	22.000 GH

Figure 8.2-28: Conducted spurious emissions within 3200–22000 MHz, Port A, 15 MHz mid channel, QPSK



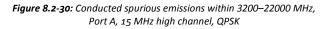
Keysight Spectrum Analyzer - Swept SA			
RF 50 Ω DC	SENSE:INT	ALIGN AUTO Avg Type:	03:21:24 PMJul 10, 201 RMS TRACE 1 2 3 4 5
tart Freq 30.000000 MHz	PNO: Fast 😱 Trig: Free R	un Avg/Hold:>	1/1 TYPE NWWW
PREAMP	FGain:Low #Atten: 26 of	IB	DETANNN
Ref Offset 43.8 dB 0 dB/div Ref 39.80 dBm			
og		PL280	120 662 OH2
29.8			
9.8			
180			
20			
0.2			
			DL1 -16.00 dB
0.2			
0.2 depther of the second seco	المتحقيق وسنار ومعاري والمراحدون	and the second s	and a set of the second s
0.2			
0.2			
tart 30 MHz			Stop 3.200 GH
Res BW (CISPR) 1 MHz	#VBW 3.0 MHz*		Sweep 8.000 ms (1001 pt



	ectrum Analyzer - Swept S/ RF 50 Ω D	2		SENSE:INT	AL	IGN AUTO		DHA	03:18:2	2 PM Jul 10, 2017
art Fre	q 30.000000 N		PNO: Fast G	Trig: Free #Atten: 26	Run dB	Avg	fold	:RMS >1/1	т	THE MWWW DET A NNN
dB/div	Ref Offset 43.8 d Ref 39.80 dBn									
•							ſ'n	2102076692 OH2		
9.8							11			
9.8							H			
9.8							H			-
80			-				$\mathbb{H}$	-		
			1							
20							11			
-										
12										
							Π			DL1-16.00 dB
							Ht			0.1 10.0014
12							tt.			
							U.			
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12							$\vdash$			
			1							
12							Ц			
			1							
art 30 I	ЛНz								Stop	3.200 GH
Dec BM	(CISPR) 1 MHz		#VB	W 3.0 MHz	•			Swee	p 8.000 m	

Figure 8.2-31: Conducted spurious emissions within 30–3200 MHz, Port B, 15 MHz low channel, QPSK

tart Fre	q 3.20000000 PREAMP	0 GHz	PNO: Fast G	Trig: Free F #Atten: 26 o	Run	Avg Type: F Avg[Hold:>1	/1	TR	PMJul 10, 2017 IACE 1 2 3 4 5 DIPE MWWWW DET A NNNN
dB/div	Ref Offset 43.8 d Ref 24.80 dB						N	1kr1 21.3 -30.	23 2 GH 637 dBr
4.8									
80									
20									
2									011-35-00 dB
2									
2	***************************************		ana lan Juanainy ng	********	Yorkya, maangla	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	الد عاد مارد الدور الارد. الار الارد الدور الارد ال	a.,	
2									
2									
2									
art 3.20	0 GHz (CISPR) 1 MHz		#\/B	W 3.0 MHz*			Swaar	Stop 2 0 47.33 ms	22.000 GH

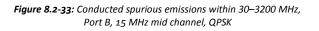


000 GHz		Trig: Free R	lun	Avg Type: F Avg[Hold:>*	RMS	TF	S PM Jul 10, 2013 RACE 1 2 3 4 5
3.8 dB	PNO: Fast IFGain:Low	#Atten: 26 d	iB	CTUINU.P		kr1 21.4	DETANNN
upun							
_							01.1500.0
							•
vert and a second		*******	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		******	ئەيە-يى <i>ۋ</i> ەرە-بىمەدى	manual
							<u> </u>
		W 3.0 MHz*			Sweep	Stop 2 47.33 m	22.000 GH
	3.8 dB dBm 	IFGaint.ow 3.8 dB dbm 	Aftien: 26 of 3.9 dB dBm 	If Galactory Atten: 28 dB	Artien: 26 dB dBm	Miter: 26 dB Miter	Mkr1 21.4 38 dB Mkr1 21.4 

Figure 8.2-32: Conducted spurious emissions within 3200–22000 MHz, Port B, 15 MHz low channel, QPSK



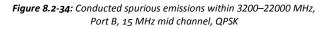
Keysight Spectrum Analyzer - Swept				
	DC	SENSE:INT	ALIGN AUTO Avg Type: RMS	03:19:13 PM Jul 10, 2017 TRACE 1 2 3 4 5
tart Freq 30.000000 PREAMP	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 26 dB	Avg Hold:>1/1	DET A NNNN
Ref Offset 43.8 dB/div Ref 39.80 dB				
~a			F1282820662.0Hz	
9.8				
9.8	+ +			+
			ſ	
80				
20				
0.2				+
				DL1 -16.00 dB
12				
0.2			1 11	
12 March March 12	an and the second s	- and the second second	washed and a second and	en and a stand of the second stands
0.2				
0.2				
tart 30 MHz				Stop 3.200 GH
Res BW (CISPR) 1 MH	z #VB	W 3.0 MHz*	Swe	ep 8.000 ms (1001 pt



art Fre	RF 50 Q D 2q 30.000000 N PREAMP		PNO: Fast	SENSE:INT Trig: Free #Atten: 26	Run	Avg Avg	Type	RMS >1/1	03:21:	39 PM Jul 10, 2017 RACE 1 2 3 4 5 TYPE MWWWW DET A NNNN
dB/div	Ref Offset 43.8 d Ref 39.80 dBr	B								
8							n je	100766020H2		
							Щ			
90							Ш			
-										
20							Щ			
12							Ш			
										DL1 -16.00 dE
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12										
12							Ц			
art 30 I	MHz (CISPR) 1 MHz			BW 3.0 MHz					Stop p 8.000 m	p 3.200 GH

Figure 8.2-35: Conducted spurious emissions within 30–3200 MHz, Port B, 15 MHz high channel, QPSK

arr		00000000 REAMP	F	NO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg Type: Avg Hold:>	1/1	1	ACE 1 2 3 4 5 YPE MWWWW DET A NNNN
0 dB/div og prov		Offset 43.8 dE 24.80 dBm						N	lkr1 21.4 -30.	73 6 GH 615 dBr
14.8										
.80										
20										
5.2										Di 1.3500 di
52	~~~~~~		-						ىلىرىھىيەر	
5.2										
5.2										
5.2										
	200 GH	z PR)1MHz			W 3.0 MHz				Stop 2 47.33 ms	2.000 GH

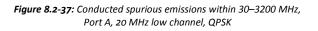


Start		20000000	-	PNO: Fast Gain:Low	Trig: Free # #Atten: 26	Run dB	Avg Type: F Avg[Hold:>*	1/1	T	ACE 1 2 3 4 5 TYPE MWWWW DET A NNNN
0 dB/	Re div Re	f Offset 43.8 d f 24.80 dBr	B n					M	kr1 20.74 -30.	40 4 GH 549 dB
14.8	12.1800.042									
1.80										
20										
5.2										Di 1.46007
5.2	~~			d						1- 
6.2 <sup>P</sup>					a no ang dina na		4-6-4-4 <b>8</b> -4 <b>8</b> -2			
5.2										
5.2										
52-										
	3.200 G	Hz SPR) 1 MHz		#VB	W 3.0 MHz			Sweep	Stop 2 47.33 ms	2.000 GH

Figure 8.2-36: Conducted spurious emissions within 3200–22000 MHz, Port B, 15 MHz high channel, QPSK



Keysight Spectrum Analyzer - Swept SA	cours and	1100 UT0		
RF 50 Ω DC	SENSE:INT	ALIGN AUTO Avg Typ	e: RMS	03:22:52 PM Jul 10, 2017 TRACE 1 2 3 4 5
	PNO: Fast Trig: Free I IFGain:Low #Atten: 26	Run Avg Hold dB	1:>1/1	DET A NNNN
Ref Offset 43.8 dB 0 dB/div Ref 39.80 dBm				
			22120662-012	
9.8				
9.8				
80				
20				
0.2				
				DL1 -16.00 dB
0.2				
0.2	Land and a standard state	adultation and the	and the second s	
and all have and the second and the second second	and the second s			
0.2				
0.2				
tart 30 MHz				Stop 3.200 GH
Res BW (CISPR) 1 MHz	#VBW 3.0 MHz	•	Sweep	8.000 ms (1001 pts



	pectrum Analyzer - Swept SA RF 50 Ω DC			SENSE:INT	A	IGN AUTO			03:25:4	0 PM Jul 10, 201
art Fre	eq 30.000000 Mi	lz	PNO: Fast	Trig: Free F	Run	Avg 1 AvgiH	loid:>	RMS >1/1	т	RACE 1 2 3 4 5 TIPE MWWW DET A NNN
	PREAMP		FGain:Low	#Atten: 26						DETANNN
dB/div	Ref Offset 43.8 dB Ref 39.80 dBm									
° 🗖							P1280	1000662 OH2		
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art 30									Stop	3.200 GH
es BW	(CISPR) 1 MHz		#VB	W 3.0 MHz				Swee	p 8.000 m	s (1001 pt

Figure 8.2-39: Conducted spurious emissions within 30–3200 MHz, Port A, 20 MHz mid channel, QPSK

tart Fre	q 3.2000000 PREAMP	00 GHz	PNO: Fast	Trig: Free Ru #Atten: 26 dl	un B	Avg Type: F Avg Hold:>1	RM S 1/1	1	ACE 1 2 3 4 5 DIPE MWWW DET A NNNT
dB/div g FL22180	Ref Offset 43.8 Ref 24.80 di						м	kr1 21.7 -30.	18 0 GH 339 dB
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80									
20									
2									01.1500.4
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2		-							
2									
2									
art 3.20	0 GHz (CISPR) 1 MH			W 3.0 MHz*				Stop 2 47.33 ms	2.000 GH

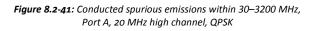
Figure 8.2-38: Conducted spurious emissions within 3200–22000 MHz, Port A, 20 MHz low channel, QPSK

tart Freq 3.200000000 GH	PNO: East Trig: Free Ru	ALIGN AUTO Avg Type: RMS un Avg[Hold:>1/1	03:25:21 PMJul 10, 201 TRACE 1 2 3 4 1 TYPE M WWWW
PREAMP Ref Offset 43.8 dB 0 dB/div Ref 24.80 dBm	IFGain:Low #Atten: 26 dl	B	lkr1 20.815 6 GF -29.896 dB
0g FL2 2.1800 GHz			
4.8			
.80			
20			
5.2			01.1.5500
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5.2 Contraction and the second	annon the hard and an and and	have many to a second a second and a second	an serve an advertage -
5.2			
5.2			
5.2			
tart 3.200 GHz Res BW (CISPR) 1 MHz	#VBW 3.0 MHz*	Sweep	Stop 22.000 GF 47.33 ms (1001 pt

Figure 8.2-40: Conducted spurious emissions within 3200–22000 MHz, Port A, 20 MHz mid channel, QPSK



Keysight Spectrum Analyzer - Swept SA			
RF 50 Ω DC tart Freq 30.000000 MHz	SENSE:INT	ALIGN AUTO Avg Type: RMS	03:26:42 PM Jul 10, 2017 TRACE 1 2 3 4 5 6
PREAMP	PNO: Fast Trig: Free Run IFGain:Low #Atten: 26 dB	Avg Hold:>1/1	DET A N N N N
Ref Offset 43.8 dB 0 dB/div Ref 39.80 dBm			
		7.225120.612.012	
29.8			
9.8			
80			
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0.2			
			DL1-16.00 dB
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Sarged a state of the state of			
0.2			
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tart 30 MHz			Stop 3.200 GHz
Res BW (CISPR) 1 MHz	#VBW 3.0 MHz*	Swee	5 8.000 ms (1001 pts



Keysight Sp	ectrum Analyzer - Swept S									
	RF 50 Ω D			SENSE:INT	AL	IGN AUTO	)	0110		3 PM Jul 10, 2017
tart Fre	q 30.000000 N PREAMP		PNO: Fast FGain:Low	Trig: Free #Atten: 26	Run dB	Avgit	lold:	: RMS >1/1		TYPE MWWWW DET A NNNN
0 dB/div	Ref Offset 43.8 d Ref 39.80 dBr									
°g							Kr.de	2112016602.0Hz		
							01			
9.8						-	#+			
		1								
9.8							44			
		1								
180		1	1							
1.80										
		1	1							
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		1	1							
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							Ш			DL1-16.00 dB
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		1	1							
tart 30 M									Stop	3.200 GH
Res BW	(CISPR) 1 MHz		#VB	W 3.0 MHz	•			Sweep	8.000 m	s (1001 pts

Figure 8.2-43: Conducted spurious emissions within 30–3200 MHz, Port B, 20 MHz low channel, QPSK

art Free	q 3.2000000		PNO: Fast 😱 FGain:Low	Trig: Free R #Atten: 26 d	lun IB	Avg Type: F Avg[Hold:>1	/1	" Ikr1 21.7	DET A NNN
dB/div 9 FL22.180	Ref Offset 43.8 Ref 24.80 dE								129 dB
1.8	0.042								
80		_							
10									
2	_								01.1500.4
2									
2	********	and the second s	**************************************	4-11-4748.gov,9924	******		ي. موجوعة معادري		an a subscription
2									
2									
2									
art 3.20	0 GHz (CISPR) 1 MH			W 3.0 MHz*			Current	Stop 2 47.33 m	22.000 GH

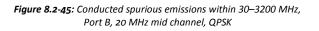
Figure 8.2-42: Conducted spurious emissions within 3200–22000 MHz, Port A, 20 MHz high channel, QPSK

tar	t Freq 3	PREAMP		PNO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg Type:   Avg Hold:>	1/1	,	DET A NNN
0 dE	Re Ndiv R	ef Offset 43.8 d ef 24.80 dB	iB m					M	kr1 21.7 -30.	18 0 GH 658 dB
14.8	122.1800-041									
1.80										
20										
5.2		_								01.1500
52										
6.2	whenthe		-	angenerated and			enter and	w	\$66 <sup>1</sup> 048-7-4997-1	
5.2										
6.2										
6.2										
	3.200 G	SHZ SPR) 1 MHZ		#VB	W 3.0 MHz			Sweep	Stop 2 47.33 ms	22.000 GH

Figure 8.2-44: Conducted spurious emissions within 3200–22000 MHz, Port B, 20 MHz low channel, QPSK



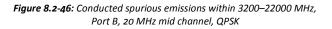
Keysight Spectr	um Analyzer - Swept SA RF 50 Ω DC			SENSE:INT		IGN AUTO				8 PM Jul 10, 2017
tart Fred	30.000000 MH	17		SENSEINT	A	Avg	Type:	RMS	U312513	RACE 1 2 3 4 5
anring	PREAMP	F	NO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg	lold:>	-1/1		DET A NNNN
	Ref Offset 43.8 dB Ref 39.80 dBm									
°9							1,200	12010802.0Hz		
9.8										
9.8										
9.0										
.80							ļ			
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0.2							Ш			
										DL1 -16.00 dB
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tort 20 Mil									Ctor	2 200 CH
tart 30 MH	ISPR) 1 MHz		#VB	W 3.0 MHz				Cwaa	510	o 3.200 GH: s (1001 pts



Keysight Spectro	um Analyzer - Swept SA RF 50 Ω DC			SENSE:INT		IGN AUTO			62/24/	28 PM Jul 10, 2017
tart Freq	30.000000 M	Hz	PNO: Fast		Run		Type	: RMS >1/1		RACE 1 2 3 4 5 TYPE MWWWW DET A NNNN
	PREAMP		FGain:Low	#Atten: 26	dB					DEINHANA
	Ref Offset 43.8 dE Ref 39.80 dBm									
°°							1.38	2102076692-0H2		
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34.8							Ш			
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tart 30 MH	z								Sto	3.200 GH
	ISPR) 1 MHz		#VB	W 3.0 MHz	•			Swar		s (1001 pt

Figure 8.2-47: Conducted spurious emissions within 30–3200 MHz, Port B, 20 MHz high channel, QPSK

start		200000000 REAMP	1	NO: Fast Gain:Low	Trig: Free #Atten: 26	Run dB	Avg Type: Avg[Hold:>	1/1	1	ACE 1 2 3 4 5 THE MWWWW DET A NNN
0 dB/d 09 F13	Ref	Offset 43.8 dE 24.80 dBm	3					M	kr1 21.4 -30.	486 dBi
14.8										
1.80										
20										
5.2										011-35-004
5.2	-		L. Sugar	u.						
6.2 <b>~</b>						**************************************	all and a second second			
5.2										
5.2										
6.2										
	.200 GH	z PR) 1 MHz			W 3.0 MHz			-	Stop 2 47.33 ms	2.000 GH



tar	t Freq	3.200000 PREAMP	000 GHz	PNO: Fast IFGain:Low	Trig: Free I #Atten: 26	Run dB	Avg Type: F Avg[Hold:>	1/1	,	ACE 1 2 3 4 1
0 dE		Ref Offset 43 Ref 24.80 (						M	kr1 20.7 -30.	96 8 GH 450 dB
14.8	FL2 2.1800 G	eu								
4.8										
.80										
20										
5.2										Di 1.45.00
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5.2										
tari	3.200	GHz							Stop 2	2.000 GI
		ISPR) 1 M	IHz	#VB	W 3.0 MHz	*		Sweep	47.33 ms	(1001 pt

Figure 8.2-48: Conducted spurious emissions within 3200–22000 MHz, Port B, 20 MHz high channel, QPSK