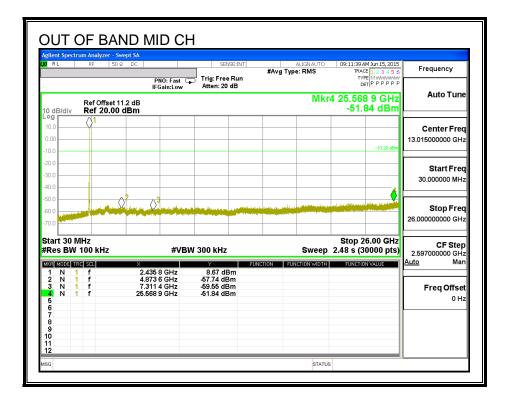
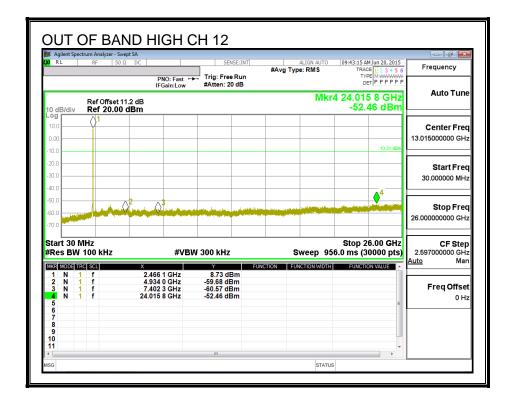
# **OUT-OF-BAND EMISSIONS**

g <mark>ilent Sp</mark> R L		<mark>Analyzer - Sw</mark> RF   50 G			SE	NSE:INT		ALIGNAUTO		AM Jun 15, 2015	Frequency
	_			NO: Fast ( Gain:Low	Trig: Free Atten: 20		#Avg	Type: RMS	TY	CE 1 2 3 4 5 6 PE M WWWWWW ET P P P P P P	
0 dB/di		ef Offset 1 ef 20.00						MI		5 2 GHz 67 dBm	Auto Tune
og 10.0	<	<b>)</b> 1									Center Free
0.00										-9.80 dBm	13.015000000 GH
0.0		2									Start Free 30.000000 MH
0.0	)										
0.0	and an in the last			ann a ba sao		al control	ati ant art	Inter the American Marketiness	a an		Stop Free
0.0											26.00000000 GH
tart 3 Res B		z 0 kHz		#VB	W 300 kHz			Sweep		26.00 GHz 10000 pts)	<b>CF Stej</b> 2.597000000 GH
KR MODE 1 N		GL	× 2.410	7 GHz	¥ 9.25 dl		INCTION	FUNCTION WIDTH	FUNCTIO	IN VALUE	<u>Auto</u> Ma
2 N 3 N 4 N 5	1	f f f	4.823	5 GHz 4 GHz 2 GHz	-39.11 di -57.80 di -58.67 di	3m					Freq Offse
6 7											
8 9 0											
1 2											



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L Agilent Spe	ctrum Analyzer - Sw RF 50	Ω DC	PNO: Fast ←	Trig: Free		#Avg Typ	ALIGN AUTO e: RMS	TRA	M Jun 20, 2015 DE 1 2 3 4 5 6 PE P P P P P P	Frequency
0 dB/div	Ref Offset 1 Ref 20.00	1.2 dB	Gain:Low	#Atten: 20	dB		Mkr	4 25.50	5 7 GHz 09 dBm	Auto Tune
		ubiii								Center Fred
0.0									-10.20 dBm	13.015000000 GH:
0.0										Start Free 30.000000 MH;
0.0		0 <mark>2</mark>	3			less relevante services and				Stop Fred 26.00000000 GH2
tart 30 l Res BW	MHz 100 kHz		#VB	W 300 kHz		s	weep 95		6.00 GHz 0000 pts)	CF Step 2.597000000 GH
	1 f 1 f	4.924	5 GHz 0 GHz	¥ 8.77 dB -58.57 dB	m m	CTION FUN	ICTION WIDTH	FUNCTI	ON VALUE	<u>Auto</u> Mar
4 N 5 6	1 f 1 f		7 GHz 7 GHz	-57.98 dB -51.09 dB					=	Freq Offse 0 Ha
7 8 9										
0										



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CAgilent Spe RL	ctrum Analyzer - Swept S/ RF 50 Ω	A C	SENSE:INT	ALIGN AUTO	07:33:54 AM Jun 25, 2015	
			Trig: Free Run	#Avg Type: RMS	TRACE 1 2 3 4 5 6	Frequency
		PNO: Fast IFGain:Low	#Atten: 20 dB		DET P NNNNN	
0 dB/div	Ref Offset 11.2 Ref 20.00 dB			N	lkr2 3.806 2 GHz -57.12 dBm	Auto Tune
.og 10.0	/1					0
0.00	Y					Center Fred 13.015000000 GH;
10.0						13.013000000 GH
20.0					-13.56 dBm	
30.0						Start Free
40.0						30.000000 MH;
50.0	2					
50.0		a - alter handed				Stop Fred
70.0						26.00000000 GH
itart 30 l Res BM	MHZ ( 100 kHz	#VF	3W 300 kHz	#Sween	Stop 26.00 GHz 2.482 s (30000 pts)	CF Step 2.597000000 GH
KR MODE T		<i></i>	V OUD KILL	FUNCTION FUNCTION WID		<u>Auto</u> Mar
1 N	1 f	2.473 9 GHz	5.944 dBm	Tononon Tononon mp		
3	1 f	3.806 2 GHz	-57.124 dBm			Freq Offse
4 5					=	0 H:
6 7						
8						
10						
11					*	

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# 7.4. 802.11n HT20 SISO MODE IN THE 2.4 GHz BAND

# 7.4.1. 6 dB BANDWIDTH

# **LIMITS**

FCC §15.247 (a) (2)

IC RSS-247 (5.2) (1)

The minimum 6 dB bandwidth shall be at least 500 kHz.

# **RESULTS, Chain 0**

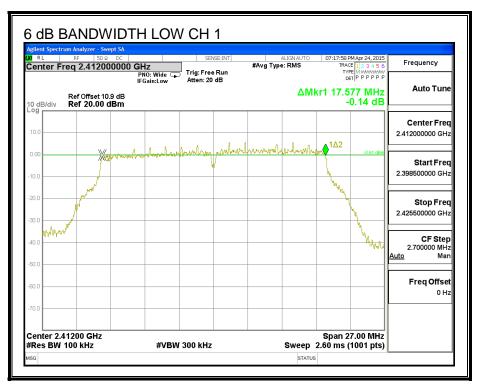
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low_1	2412	17.58	0.5
Low_2	2417	17.55	0.5
Mid	2437	17.69	0.5
High_9	2452	17.60	0.5
High_10	2457	17.58	0.5
High_11	2462	17.19	0.5
High_12	2467	16.68	0.5
High_13	2472	16.41	0.5

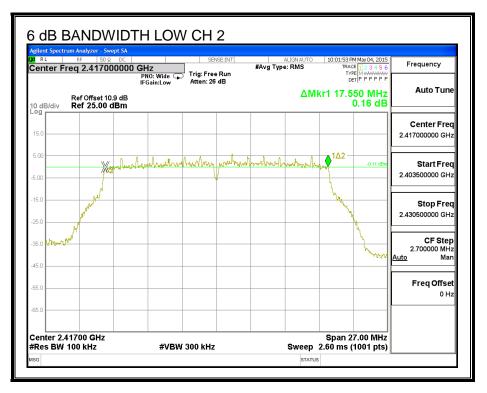
# **RESULTS, Chain 1**

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low_1	2412	17.63	0.5
Low_2	2417	17.58	0.5
Mid	2437	17.58	0.5
High_9	2452	17.60	0.5
High_10	2457	17.33	0.5
High_11	2462	17.12	0.5
High_12	2467	17.25	0.5
High_13	2472	17.34	0.5

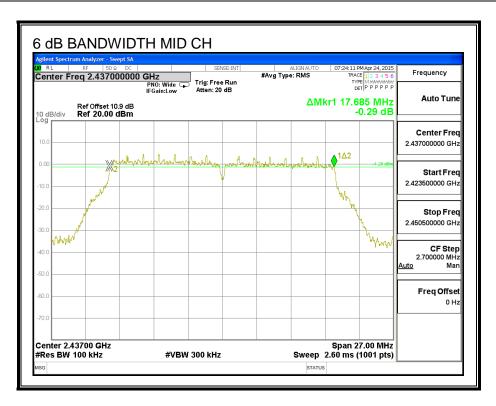
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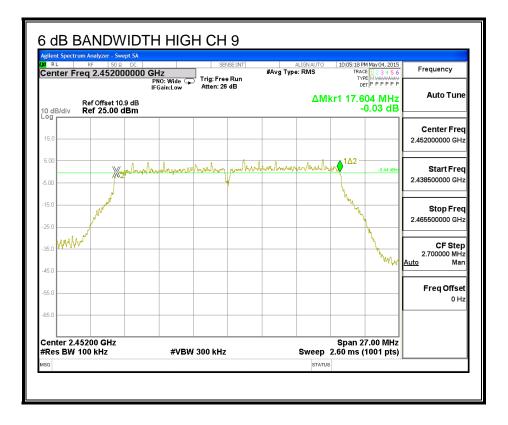
## 6 dB BANDWIDTH, Chain 0



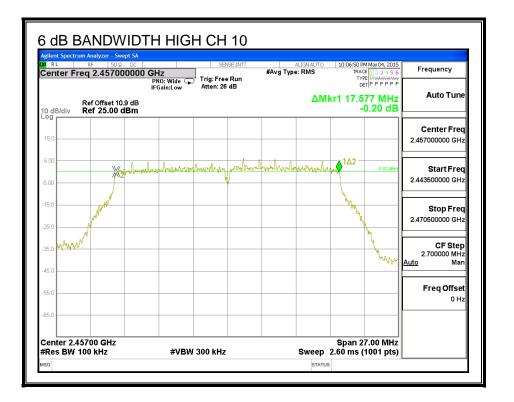


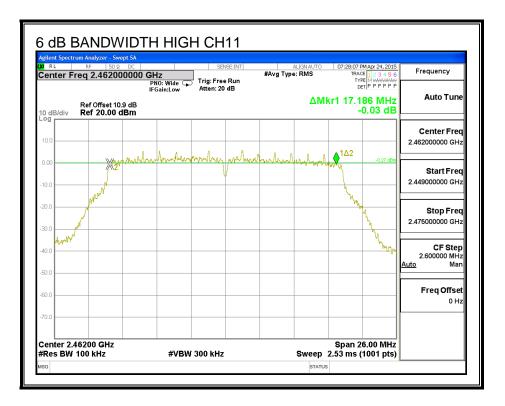
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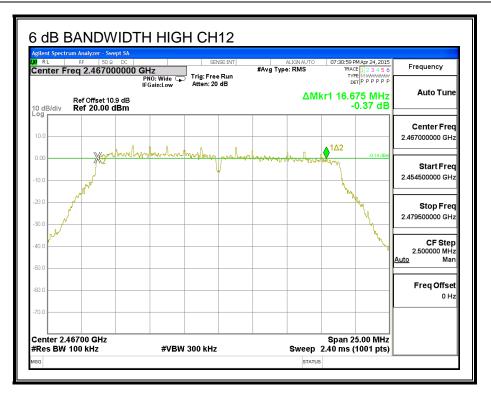


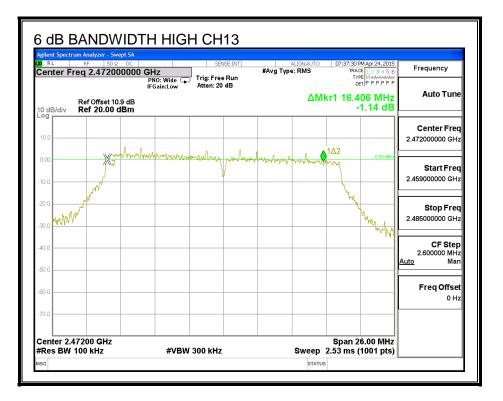
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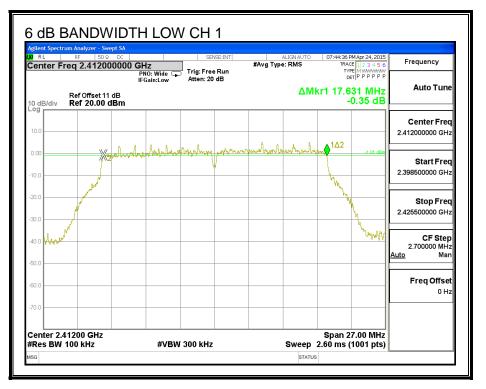


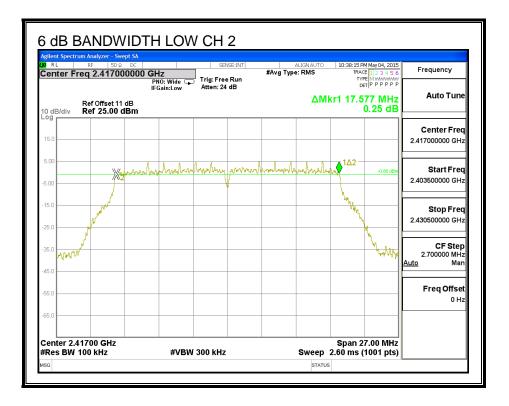


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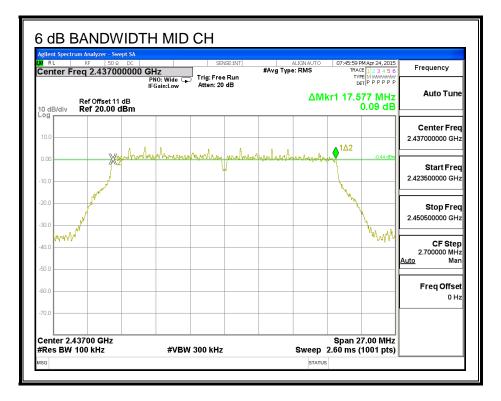
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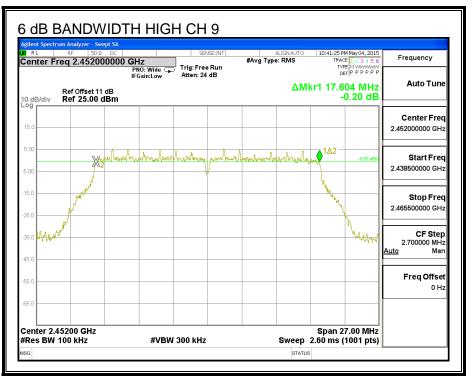
# 6 dB BANDWIDTH, Chain 1





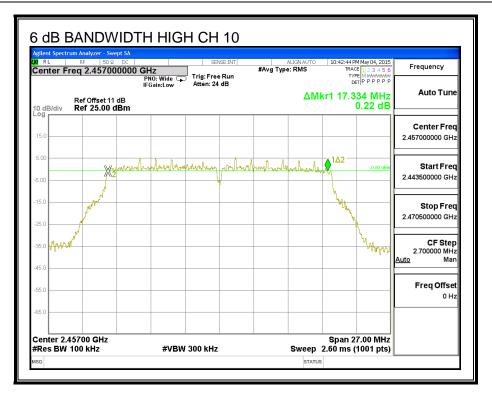
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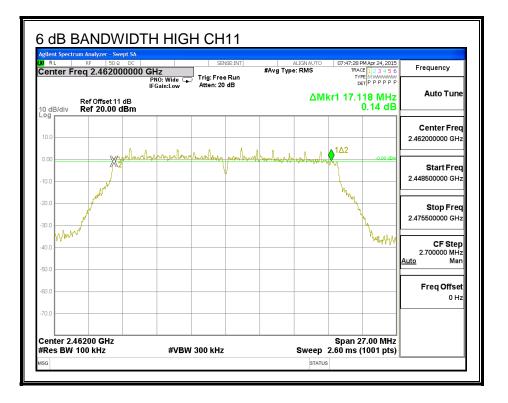




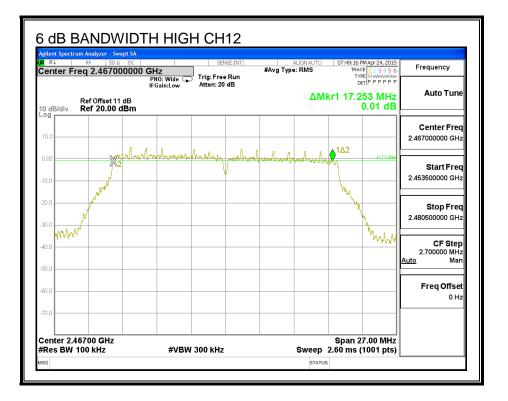
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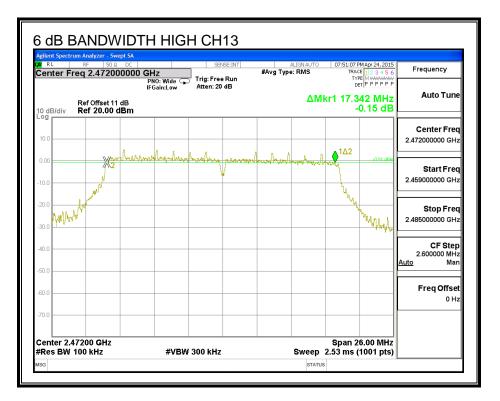
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# 7.4.2. **99% BANDWIDTH**

#### **LIMITS**

None; for reporting purposes only.

#### **RESULTS, Chain 0**

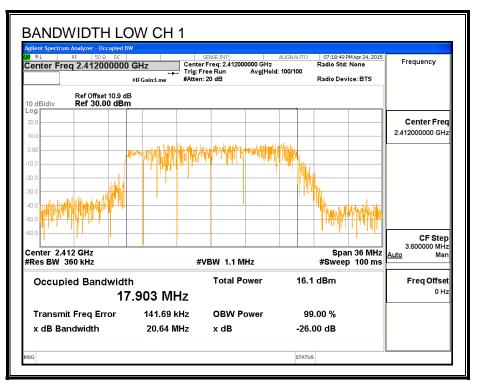
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low_1	2412	17.903
Low_2	2417	17.685
Mid	2437	17.830
High_9	2452	17.886
High_10	2457	17.781
High_11	2462	17.887
High_12	2467	17.846
High_13	2472	17.847

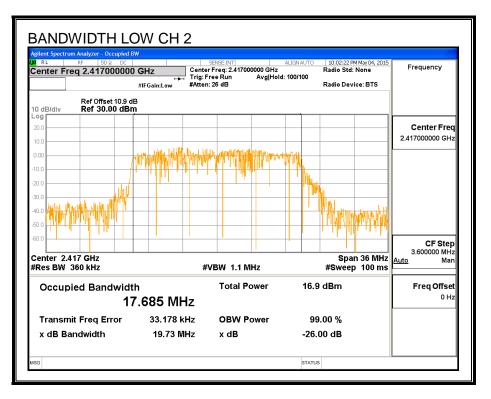
#### **RESULTS, Chain 1**

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low_1	2412	17.621
Low_2	2417	17.695
Mid	2437	17.760
High_9	2452	17.924
High_10	2457	17.621
High_11	2462	17.782
High_12	2467	17.973
High_13	2472	17.922

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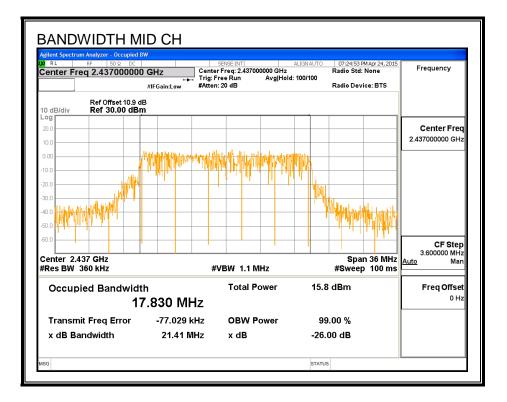
# 99% BANDWIDTH, Chain 0

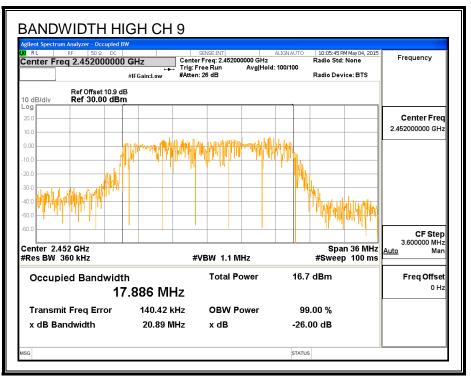




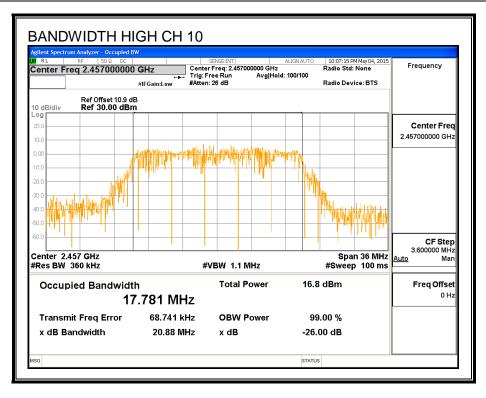
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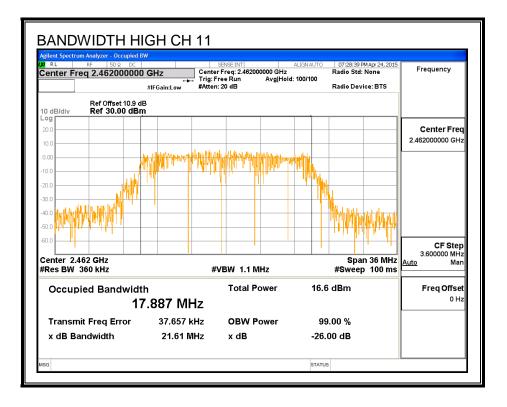


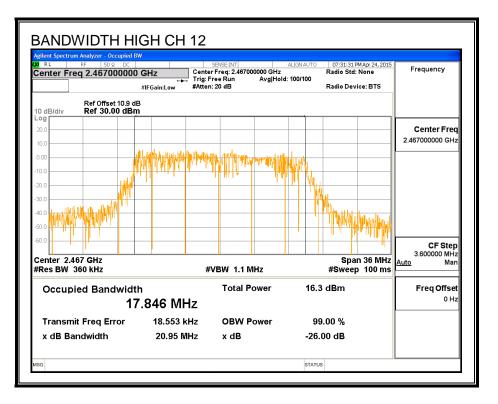


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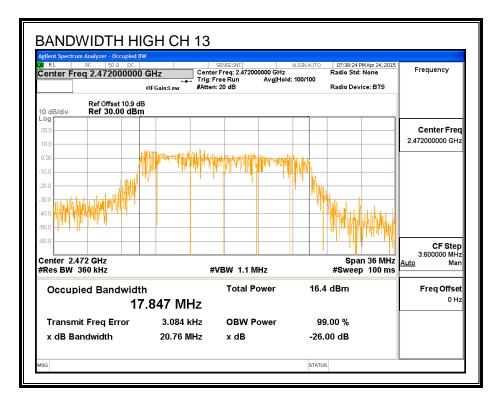
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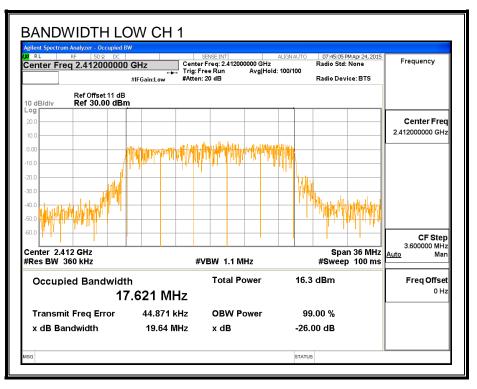


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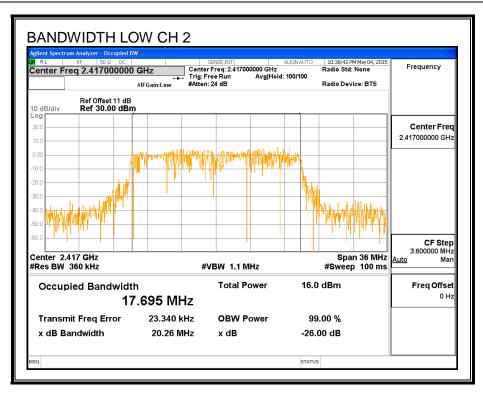
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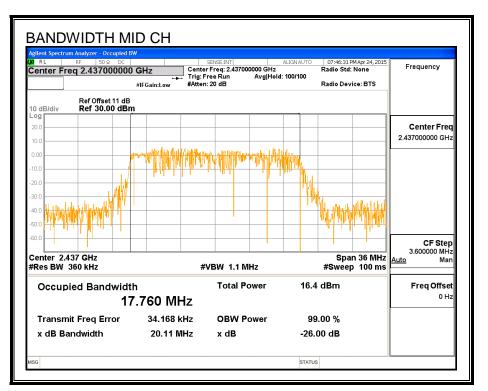


# 99% BANDWIDTH, Chain 1



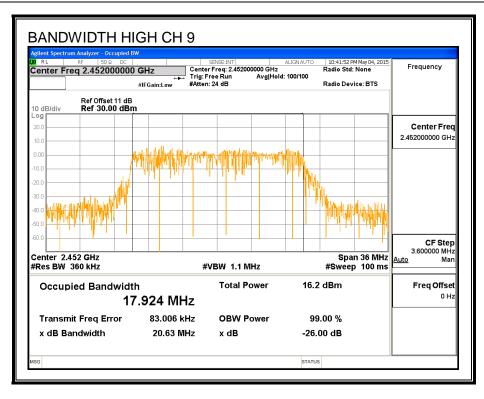
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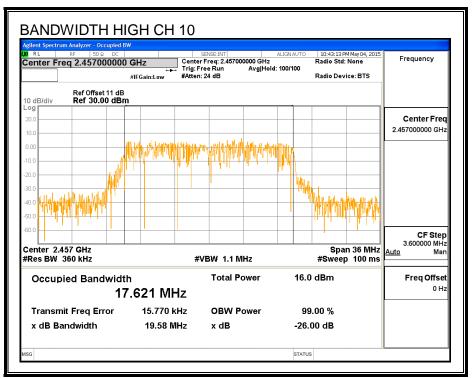




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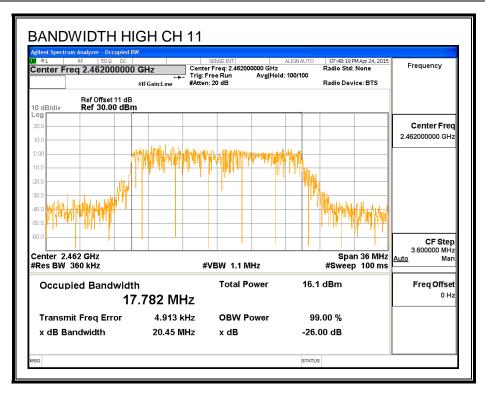
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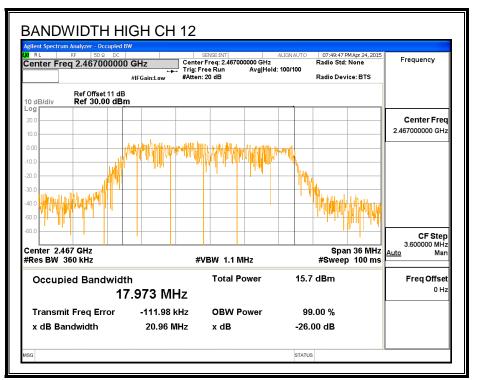




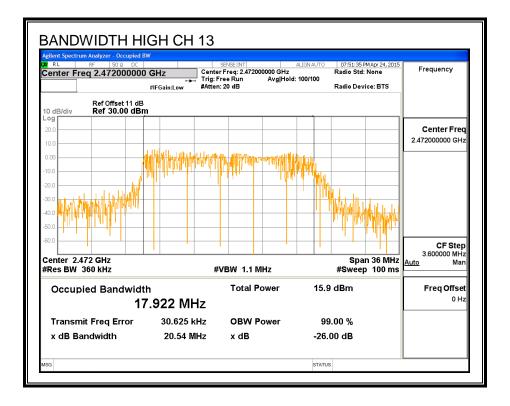
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# 7.4.3. AVERAGE POWER

### **LIMITS**

None; for reporting purposes only.

# **RESULTS, Chain 0**

Channel	Frequency	Power
	(MHz)	(dBm)
Low_1	2412	15.97
Low_2	2417	16.93
Mid	2437	18.43
High_9	2452	18.37
High_10	2457	15.88
High_11	2462	14.91
High_12	2467	11.93
High_13	2472	2.98

### **RESULTS, Chain 1**

Channel	Frequency	Power
	(MHz)	(dBm)
Low_1	2412	15.93
Low_2	2417	16.89
Mid	2437	18.46
High_9	2452	18.41
High_10	2457	15.91
High_11	2462	14.86
High_12	2467	11.96
High_13	2472	2.95

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# 7.4.4. OUTPUT POWER

## LIMITS

FCC §15.247

IC RSS-247 (5.4) (4)

For systems using digital modulation in the 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **DIRECTIONAL ANTENNA GAIN**

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

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#### **RESULTS, Chain 0**

#### Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	1.38	30.00	30	36	30.00
Low_2	2417	1.38	30.00	30	36	30.00
Mid	2437	1.38	30.00	30	36	30.00
High_9	2452	1.38	30.00	30	36	30.00
High_10	2457	1.38	30.00	30	36	30.00
High_11	2462	1.38	30.00	30	36	30.00
High_12	2467	1.38	30.00	30	36	30.00
High_13	2472	1.38	30.00	30	36	30.00

#### Results

Channel	Frequency	Chain 0	Total	Power	Margin
		Meas	Corr'd	Limit	
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	22.05	22.05	30.00	-7.95
Low_2	2417	22.69	22.69	30.00	-7.31
Mid	2437	23.88	23.88	30.00	-6.12
High_9	2452	23.72	23.72	30.00	-6.28
High_10	2457	21.89	21.89	30.00	-8.11
High_11	2462	20.88	20.88	30.00	-9.12
High_12	2467	19.17	19.17	30.00	-10.83
High_13	2472	10.23	10.23	30.00	-19.77

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#### **RESULTS, Chain 1**

#### Limits

Channel	Frequency	Directional	FCC	IC	IC	Max
		Gain	Power	Power	EIRP	Power
			Limit	Limit	Limit	
	(MHz)	(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
Low_1	2412	-0.95	30.00	30	36	30.00
Low_2	2417	-0.95	30.00	30	36	30.00
Mid	2437	-0.95	30.00	30	36	30.00
High_9	2452	-0.95	30.00	30	36	30.00
High_10	2457	-0.95	30.00	30	36	30.00
High_11	2462	-0.95	30.00	30	36	30.00
High_12	2467	-0.95	30.00	30	36	30.00
High_13	2472	-0.95	30.00	30	36	30.00

#### Results

Channel	Frequency	Chain 1	Total	Power	Margin
		Meas	Corr'd	Limit	
		Power	Power		
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Low_1	2412	21.95	21.95	30.00	-8.05
Low_2	2417	23.08	23.08	30.00	-6.92
Mid	2437	23.97	23.97	30.00	-6.03
High_9	2452	23.84	23.84	30.00	-6.16
High_10	2457	21.93	21.93	30.00	-8.07
High_11	2462	20.82	20.82	30.00	-9.18
High_12	2467	19.40	19.40	30.00	-10.60
High_13	2472	10.13	10.13	30.00	-19.87

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# 7.4.5. POWER SPECTRAL DENSITY

### LIMITS

FCC §15.247

IC RSS-247 (5.2) (2)

For digitally modulated systems, the power spectral density conducted form the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 KHz band during any time interval of continuous transmissions.

### **RESULTS, Chain 0**

# PSD Results

Channel	Frequency	Chain 0	Limit	Margin
		Meas		
	(MHz)	(dBm)	(dBm)	(dB)
Low_1	2412	-9.52	8.0	-17.5
Low_2	2417	-8.25	8.0	-16.3
Mid	2437	-6.52	8.0	-14.5
High_9	2452	-6.58	8.0	-14.6
High_10	2457	-9.45	8.0	-17.4
High_11	2462	-10.81	8.0	-18.8
High_12	2467	-13.93	8.0	-21.9
High_13	2472	-22.86	8.0	-30.9

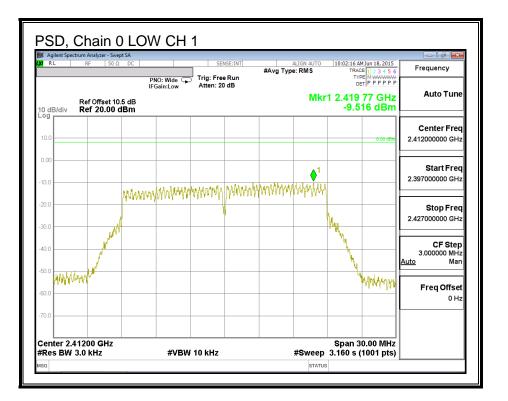
### **RESULTS, Chain 1**

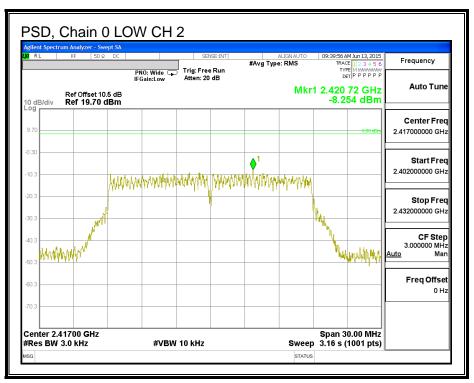
#### PSD Results

Channel	Frequency	Chain 1	Limit	Margin
		Meas		
	(MHz)	(dBm)	(dBm)	(dB)
Low_1	2412	-9.71	8.0	-17.7
Low_2	2417	-8.27	8.0	-16.3
Mid	2437	-6.31	8.0	-14.3
High_9	2452	-6.64	8.0	-14.6
High_10	2457	-9.29	8.0	-17.3
High_11	2462	-10.53	8.0	-18.5
High_12	2467	-14.03	8.0	-22.0
High_13	2472	-23.11	8.0	-31.1

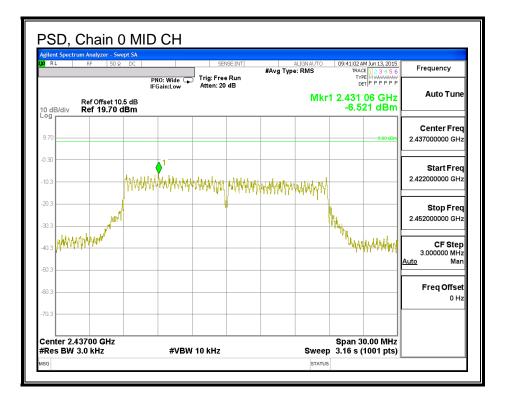
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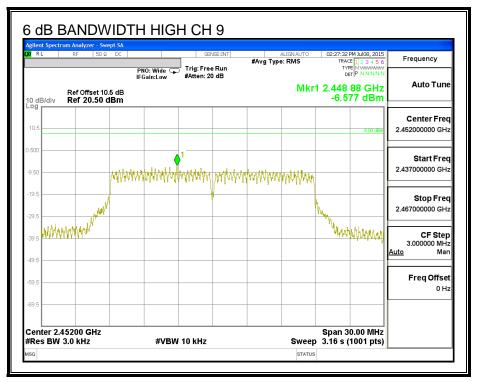
# PSD, Chain 0





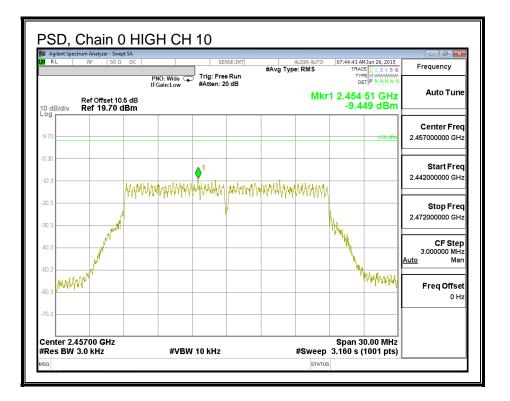
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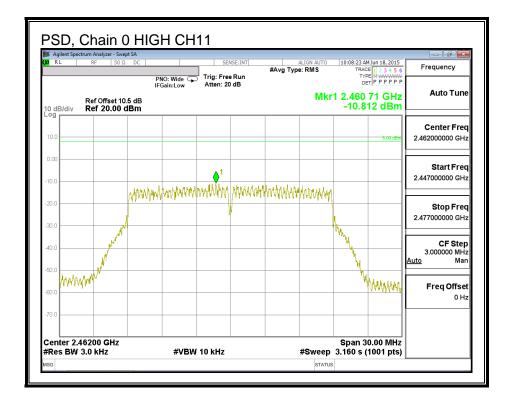




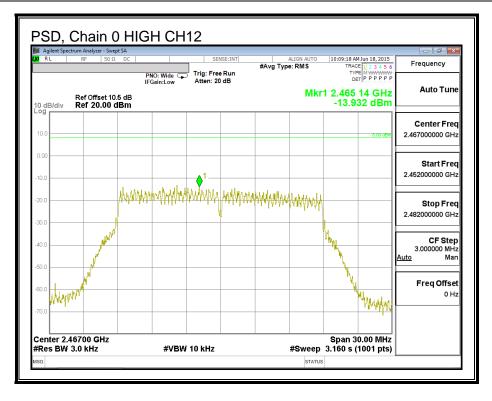
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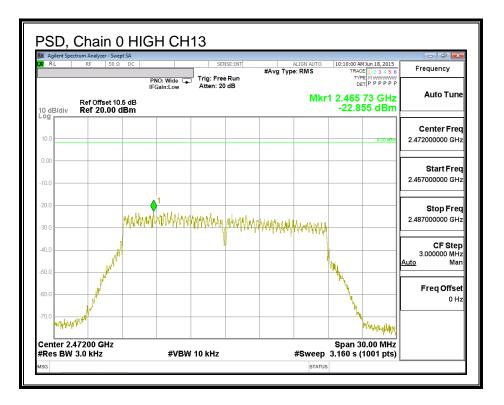
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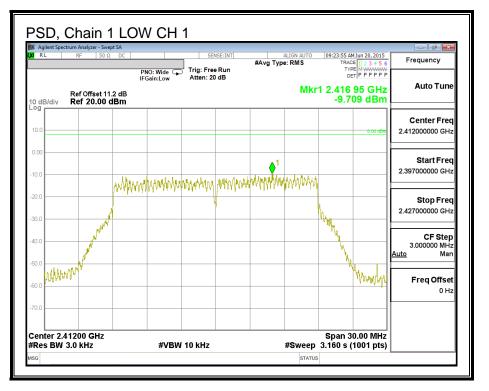


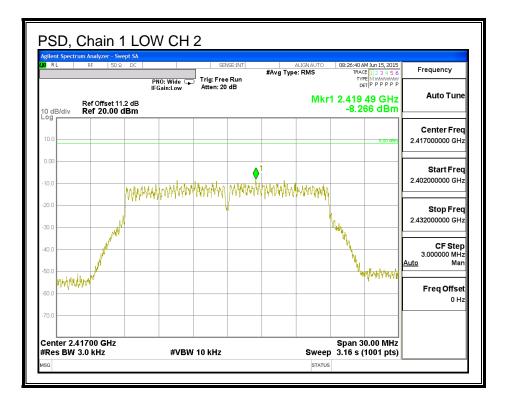


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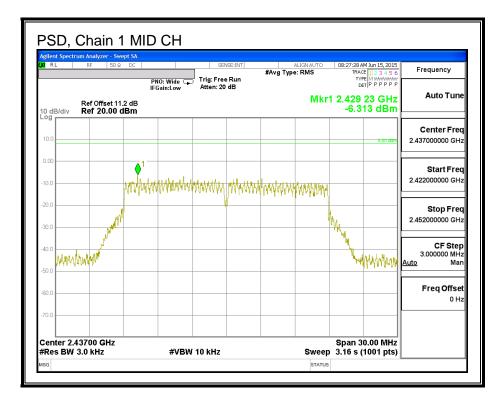
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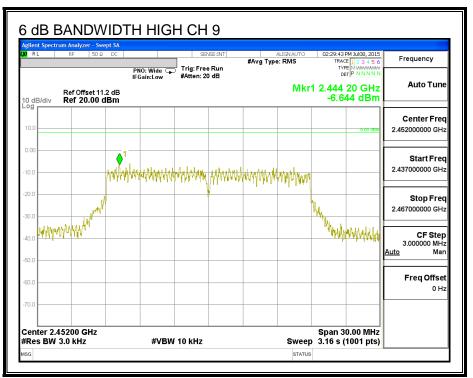
# PSD, Chain 1





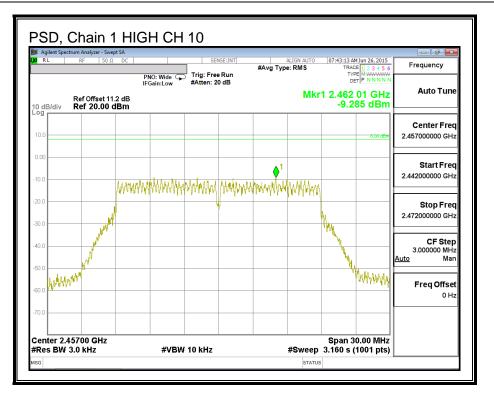
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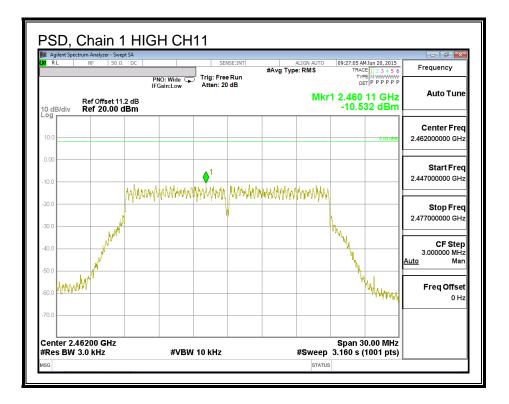




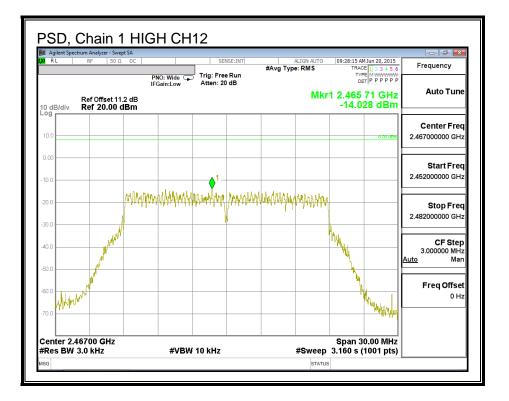
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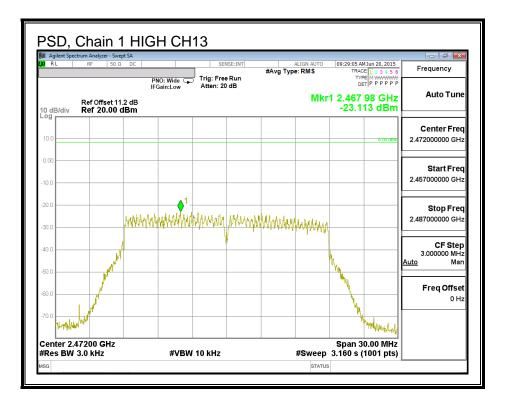
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# 7.4.6. OUT-OF-BAND EMISSIONS

#### LIMITS

FCC §15.247 (d)

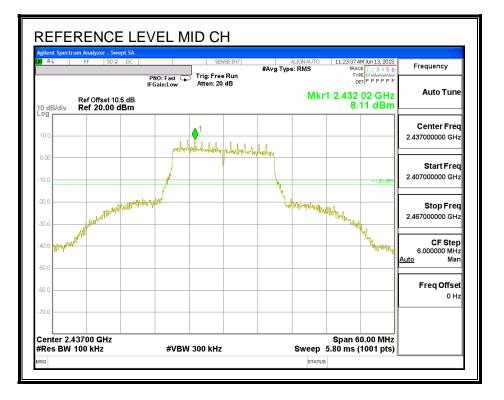
IC RSS-247 (5.5)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

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# **RESULTS**

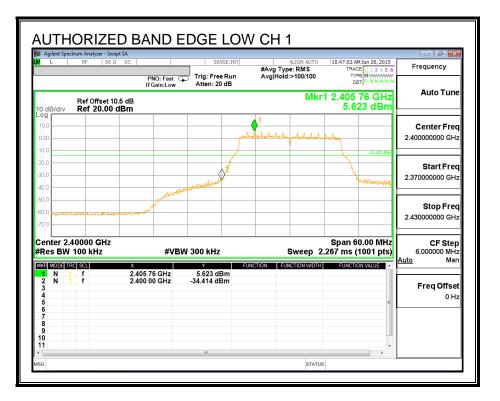
#### **IN-BAND REFERENCE LEVEL, Chain 0**

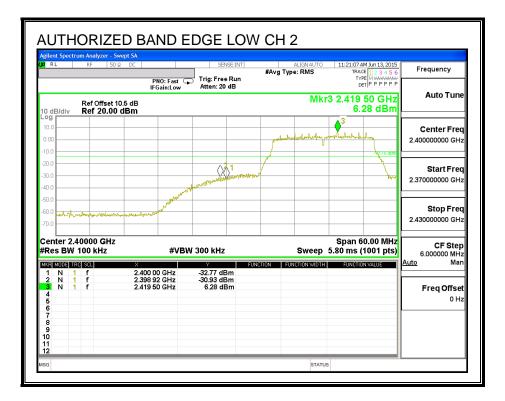


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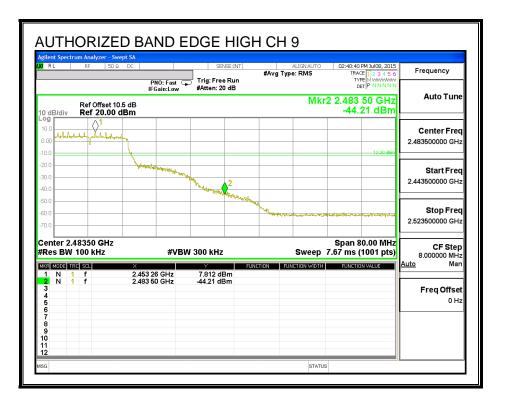
# LOW CHANNEL BANDEDGE

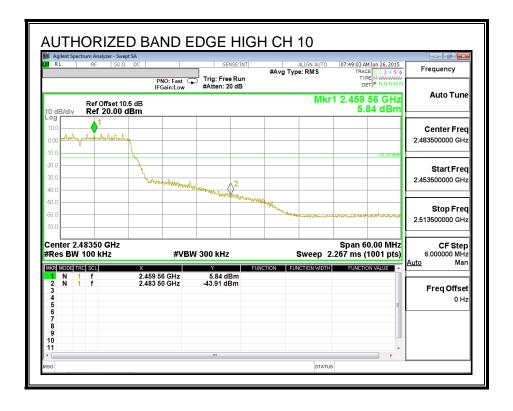




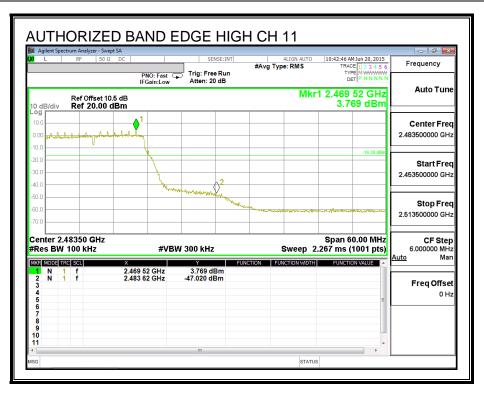
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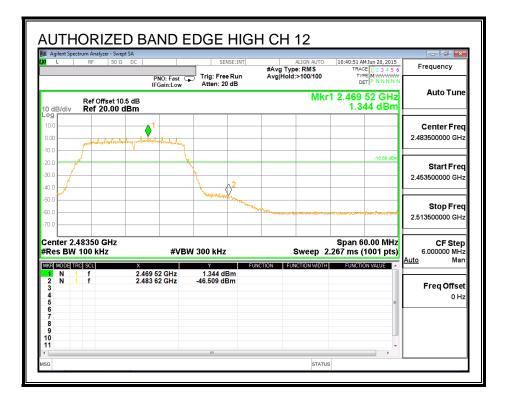
# HIGH CHANNEL BANDEDGE





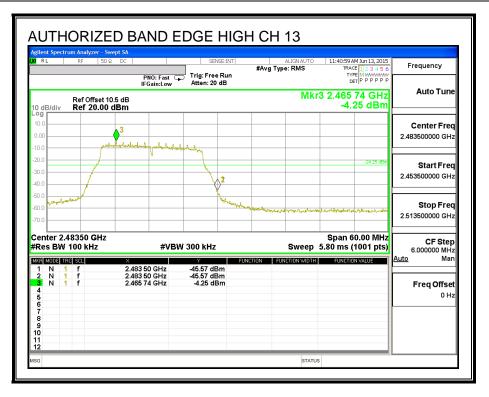
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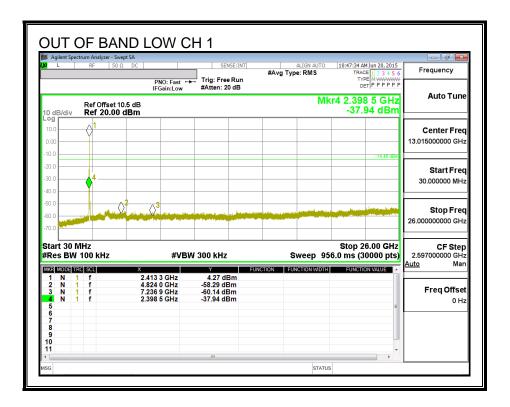


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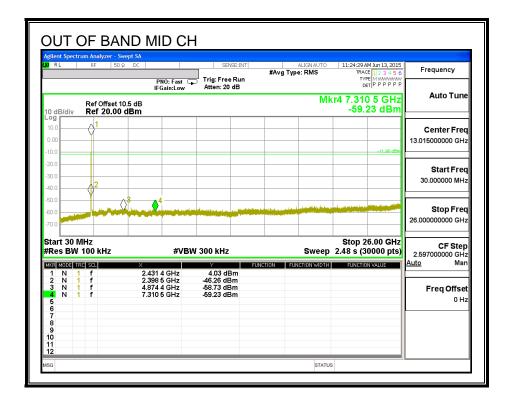


# **OUT-OF-BAND EMISSIONS**



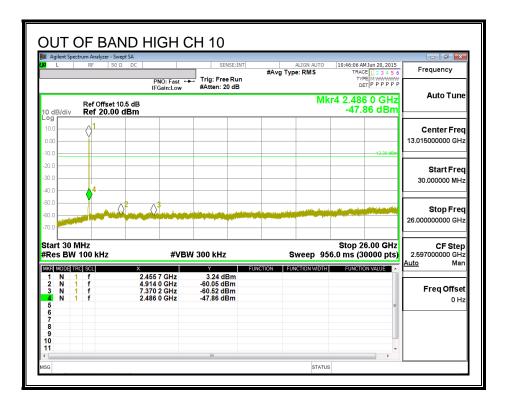
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Frequency	M Jun 13, 2015 E 1 2 3 4 5 6 PE M M M M M M M M M M M M M M M M M M M	TRAC	ALIGN AUTO e: RMS	#Avg Ty		Trig: Fre	PNO: Fast	OΩ DC	RF	
Auto Tur	9 9 GHz 03 dBm	r4 7.24	Mk		0 dB	Atten: 20	IFGain:Low	10.5 dB	Ref Offs Ref 20.	div
Center Fre 13.015000000 GF										
Start Fre 30.000000 MH	-13.70 dBm								¢ <sup>2</sup>	
<b>Stop Fre</b> 26.00000000 GF		er ef el parte el se						Simo I		
CF Ste 2.597000000 GH	:6.00 GHz :0000 pts)		Sweep		z	W 300 kHz	#VE		Hz 00 kHz	30 M BW 1
Auto Ma Freq Offs 0 H	IN VALUE	FUNCTIO	ICTION WIDTH	ICTION F	Bm Bm Bm	5.46 d -31.86 d -59.80 d -60.03 d	15 9 GHz 39 4 GHz 34 6 GHz 19 9 GHz	2.39 4.83	f f f f	IDE TRO N 1 N 1 N 1 N 1



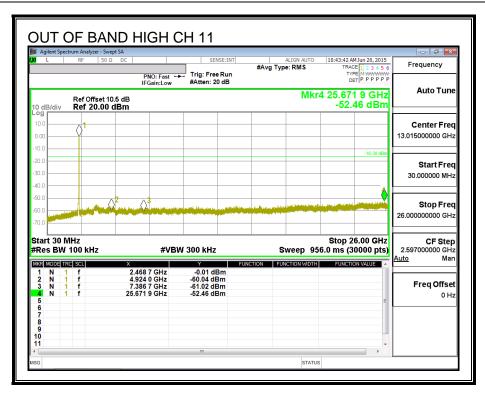
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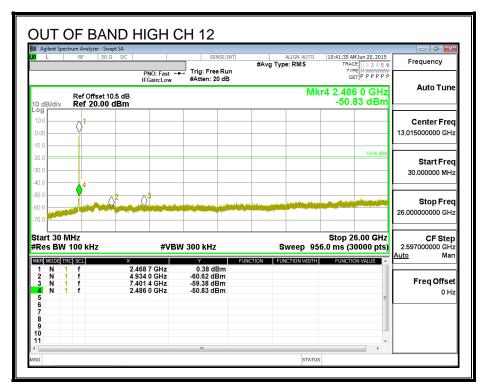
Agilent Spectru <mark>XI</mark> R L	<b>im Analyzer - Swe</b> RF 50 Ω				NSE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRA	AM Jul 09, 2015 CE 1 2 3 4 5 6	Frequency		
		IFGai	:Fast ⊆ <sub>∎</sub> n:Low	#Atten: 20			MI	D		Auto Tune		
10 dB/div	D dB/div Ref 20.00 dBm -57.53 dBm											
10.0 0.00 -10.0	1								12.20 dBm	Center Freq 13.015000000 GHz		
-20.0 -30.0 -40.0										Start Freq 30.000000 MHz		
-50.0 -60.0 -70.0		3	Frahel and the events also the set of a gate	i kanal kasi baran sala sa Manal kasi bara sa kati sa		n daarta in a generatii Africa Africanya generatii Africa	a galanti fatanci a barga	an a		<b>Stop Freq</b> 26.000000000 GHz		
Start 30 M #Res BW			#VBW	/ 300 kHz			Sweep		26.00 GHz 10000 pts)	CF Step 2.597000000 GHz		
MKR MODE TR 1 N 1 2 N 1 3 N 1 4 5 6 7	f f	× 2.444 4 0 3.818 3 0 6.348 7 0	Hz	4.26 df -55.64 df -57.53 df	3m 3m	TION FU	NCTION WIDTH	FUNCTI	DN VALUE	Auto Man Freq Offset 0 Hz		
7 8 9 10 11 12												



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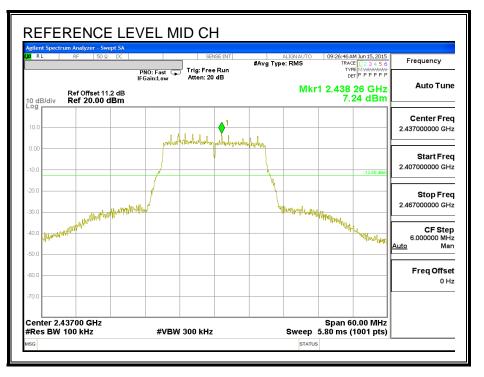


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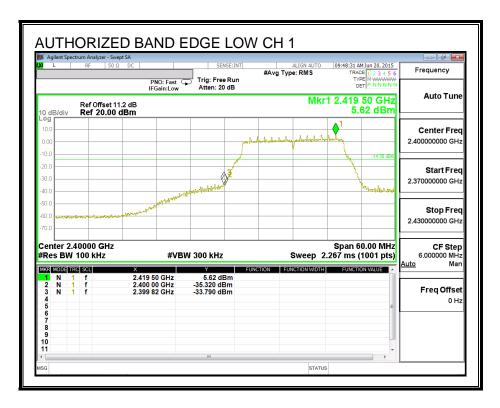
<mark>ilent Spe</mark> R L	ectrum	Analyz RE	e <mark>r - Swe</mark> j 50 Ω	DC DC				SENS	E:INT		۵	LIGNAUTO	11:41	:45 AM 1	ın 13, 2015	
		14	00 4			:Fast ⊂ n:low		g:Freef en:20 d	Run	#Avg		RMS		TRACE 1	23456 PPPPP	Frequency
) dB/di			set 10.9 0.00 d									Mk			7 GHz dBm	Auto Tune
																Center Fred
0.0		$\uparrow^1$														13.015000000 GH
0.0															-24.45 dBm	Start Fred
0.0 0.0																30.000000 MH;
0.0			$\sim$	2 	$\mathcal{O}^{3}$				. et la caral	lide en co		يستغر المعصيات	المعانيس ال	a late de la		Stop Fred
0.0 0.0					-		1									26.000000000 GH
tart 30 Res B			z			#VB	W 300	kHz				Sweep			00 GHz 00 pts)	
kr Mode 1 N	TRC	SCL f		× 2.46	610	2117	1	.34 dBr		NCTION	FUNC	TION WIDTH	FUN	ICTION W	ALUE	<u>Auto</u> Mar
2 N 3 N 4 N	1 1 1	f f f		4.94	460	SHz SHz	-57 -60	.98 dBr .00 dBr .64 dBr	n n							Freq Offse
5 6 7																0 H:
3																
0 1 2																

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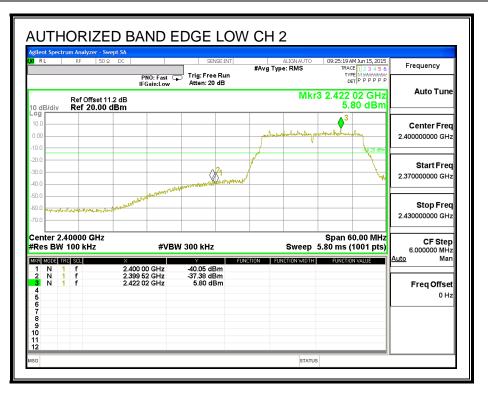
# **IN-BAND REFERENCE LEVEL, Chain 1**



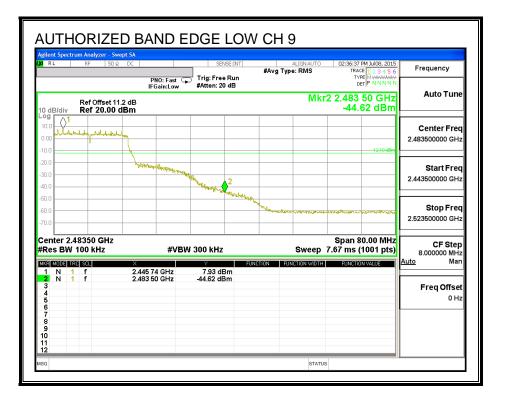
#### LOW CHANNEL BANDEDGE



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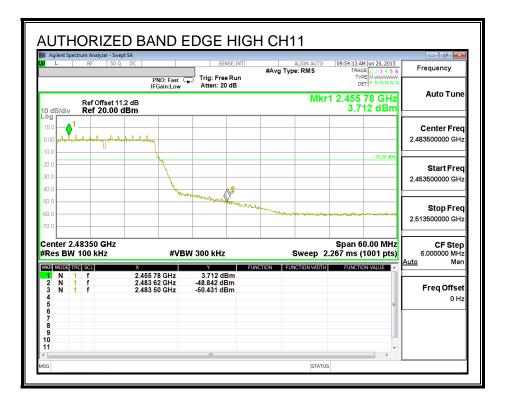


# HIGH CHANNEL BANDEDGE

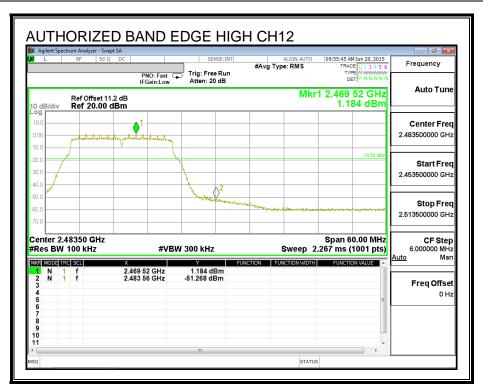


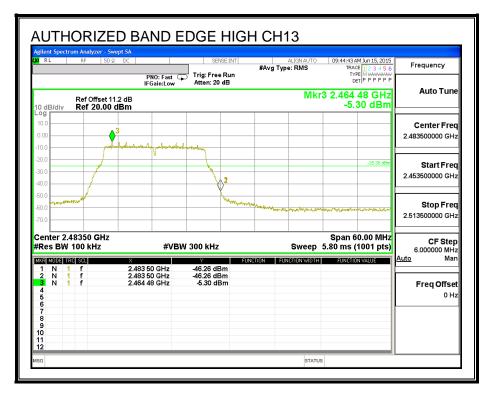
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	Analyzer - Swept SA RF 50 Ω DC		SENSE:INT	ALI #Avg Type:	GN AUTO	07:56:07 AM	Jun 26, 2015	Frequency
		PNO: Fast ( IFGain:Low	Trig: Free Run #Atten: 20 dB			TYPE		
	ef Offset 11.2 dB ef 20.00 dBm				Mkr1	2.462 (	02 GHz 5 dBm	Auto Tune
29	↓ <sup>1</sup>							Center Free
.00 almong mile	Avelanhartesting							2.483500000 GH
0.0							-14:20 dbm	
0.0								Start Free
0.0	h 1	moundation	2					2.453500000 GH
0.0			man market whether	man				
0.0			www.uulululululu	and		Same and the second	anato and a started	Stop Free 2.513500000 GH
0.0								2.01000000000
enter 2.483 Res BW 10		#\@	W 300 kHz	Cu		Span 60 267 ms (1	001 ptc)	CF Ster 6.000000 MH
R MODE TRC S		#VB				FUNCTION		<u>Auto</u> Mar
1 N 1	f 2.40	62 02 GHz 483 5 GHz	5.848 dBm -43.806 dBm					
3								Freq Offse
5							E	011
7 8								
9								
1								



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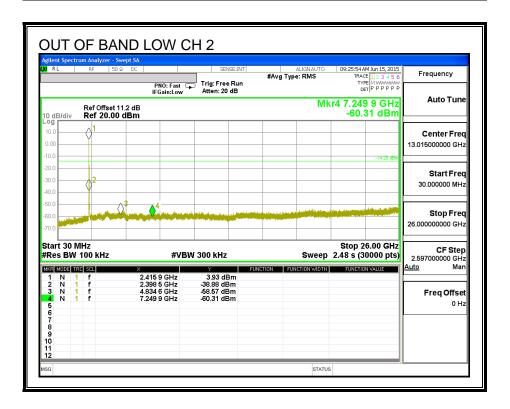


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# **OUT-OF-BAND EMISSIONS**

	nt Spec		alyzer - Swept :									- <b>d</b> -×
L		RF	50 Ω	DC		SEN	SE:INT	#Avg Typ	ALIGN AUTO		M Jun 20, 2015	Frequency
					D: Fast ↔ nin:Low	Trig: Free #Atten: 20		****¥ 13P		TY		
0 dB/	div		Offset 11.2						Mk		9 4 GHz 42 dBm	Auto Tune
°g Г	uiv	Kei	20.00 0	5111								
10.0		-01										Center Fred
3.00 -												13.015000000 GH
0.0											-14.38 dBm	
20.0												Start Fred
0.0		64										30.000000 MH
10.0		1										
50.0			<mark>2</mark>	<u></u>							And a second second	
50.0				www.Vd								Stop Fred 26.00000000 GH;
'0.0 본	ر. مەسومى											26.00000000 GH
Ļ												
tart : Res		/IHZ 100 I	447		#\/B\/	/ 300 kHz		2	ween Q5		6.00 GHz 0000 pts)	CF Step 2.597000000 GH
			(ITE	×		Y	C I N	CTION FUN	•			<u>Auto</u> Mar
1 N	1 1	f		2.416 7		3.36 dE	lm	CHON FOR	CTION WIDTH	FUNCT	UN VALUE	
2 N 3 N				4.824 0 7.235 2	GHz	-59.63 dB -59.10 dB						Freq Offse
4 N				2.399 4		-36.42 dB						0 H:
5 6											E	
7 8												
9												
0												



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