



BANDWIDTH

Note: Antenna A Power> Antenna B Power, Both antenna A and B have been test, Only show the worst data of Antenna A.

Band I (5.150-5.250GHz) 26dB Bandwidth

Frequency	802.11ac(HT20) 26dB Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5180	21.08	21.01	N/A
5200	21.01	20.95	N/A
5240	21.05	20.99	N/A

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11ac(HT40) 26dB Bandwidth(MHz) ANTENNA -A ANTENNA -B		Pass/Fail
5190	39.77	39.62	N/A
5230	39.76	39.64	N/A

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT80) 26dB		
Frequency (MHz)	Bandwidth(MHz)		Pass/Fail
	ANTENNA -A	ANTENNA -B	
5210	79.79	79.62	N/A

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.



Note: Antenna B Power> Antenna A Power, Both antenna A and B have been test, Only show the worst data of Antenna B. Band IV (5.725-5.850GHz)26dB Bandwidth

Frequency	802.11ac(HT20) 26dB Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5745	20.98	21.07	N/A
5785	21.00	21.09	N/A
5825	20.95	21.01	N/A

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT40) 26dB Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5755	39.65	39.73	N/A
5795	39.74	39.83	N/A

Note: N/A, 26 db bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT80) 26dB Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5775	80.43	80.51	N/A

Note: N/A, 26 db bandwidth measurement limit only embodied in the report





Note: Antenna A Power> Antenna B Power, Both antenna A and B have been test, Only show the worst data of Antenna A.

Band I (5.150-5.250GHz) 99% Bandwidth

Frequency	802.11ac(HT20) 99% Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5180	17.726	17.712	N/A
5200	17.711	17.703	N/A
5240	17.714	17.709	N/A

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11ac(HT40) 99% Bandwidth(MHz)		Pass/Fail
	ANTENNA -A	ANTENNA -B	
5190	36.322	36.312	N/A
5230	36.314	36.305	N/A

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency (MHz)	802.11ac(HT Bandwidth	,	Pass/Fail
(10112)	ANTENNA -A	ANTENNA -B	
5210	75.524	75.511	N/A

Note: N/A, 99% bandwidth measurement limit only embodied in the report.



Note: Antenna B Power> Antenna A Power, Both antenna A and B have been test, Only show the worst data of Antenna B. Band IV (5.725-5.850GHz)99% Bandwidth

Frequency	802.11ac(H Bandwid	,	Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5745	17.711	17.716	N/A
5785	17.714	17.727	N/A
5825	17.703	17.714	N/A

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(HT40) 99% Bandwidth(MHz)		Pass/Fail
(MHz)	ANTENNA -A	ANTENNA -B	
5755	36.368	36.380	N/A
5795	36.381	36.393	N/A

Note: N/A, 99% bandwidth measurement limit only embodied in the report.

Frequency	802.11ac(F Bandwid	,	Pass/Fail
(MHz)	ANTENNA - A	ANTENNA -B	
5775	75.561	75.574	N/A

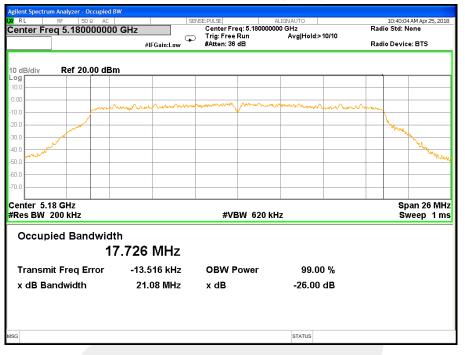
Note: N/A, 26 db bandwidth measurement limit only embodied in the report



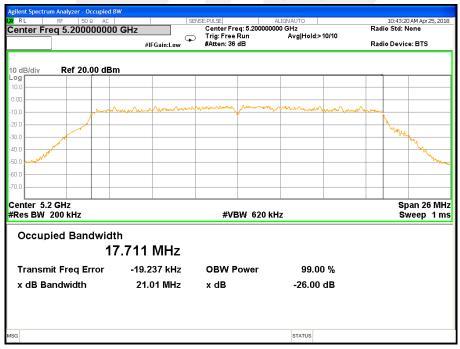


Antenna A

Band I (5.150-5.250GHz) 802.11ac(HT20) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT20) Channel 36



26 dB &99% Bandwidth 802.11ac(HT20) Channel 40





26 dB &99% Bandwidth 802.11ac(HT20) Channel 48

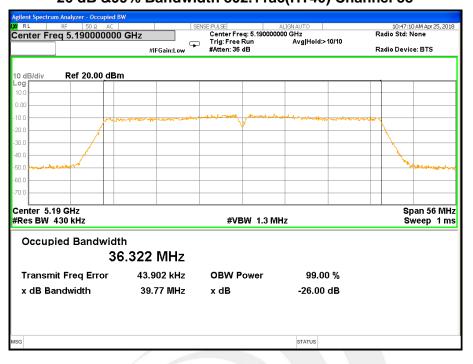
	im Analyzer - Occupied B				
RL	RF 50 Ω AC		ENSE:PULSE Center Freq: 5.24000	ALIGNAUTO	10:44:52 AM Apr 25, 2018 Radio Std: None
Senter Fr	eq 5.24000000	GHZ		Avg Hold:>10/10	Radio Sta: Norie
		#IFGain:Low	#Atten: 36 dB		Radio Device: BTS
10 dB/div	Ref 20.00 dBm	า			
log					
10.0					
0.00		and a second		mannen	
10.0	Astron	way and the server and the control		and a contract of the second o	and Mariana
20.0					
30.0	Jur -				
40.0					
50.0 mmmm					
-60.0					
70.0					
Center 5.3 #Res BW			#VBW 620	kHz	Span 26 MHz Sweep 1 ms
Occup	ied Bandwidt	h			
	17	′.714 MHz			
Transm	nit Freq Error	-1.813 kHz	OBW Power	99.00 %	
x dB Ba	andwidth	21.05 MHz	x dB	-26.00 dB	
		21100 11112		20100 02	
150				2117472	

Shenzhen STS Test Services Co., Ltd.

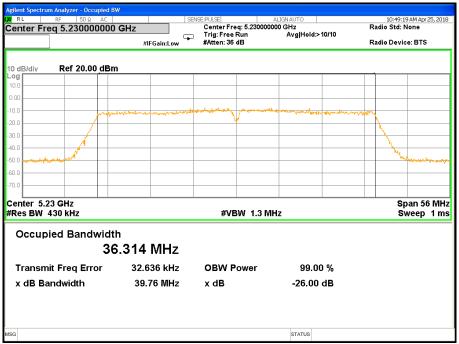
1/F., Building B, Zhuoke Science Park, No.190,Chongqing Road, Fuyong Street, Bao'an District, Shenzhen, Guangdong,China Tel: 0755-36886288 Fax: 0755-36886277 Http://www.stsapp.com E-mail: sts@stsapp.com



Band I (5.150-5.250GHz) 802.11n(HT40) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT40) Channel 38



26 dB &99% Bandwidth 802.11ac(HT40) Channel 46





Band I (5.150-5.250GHz) 802.11n(HT40) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT80) Channel 42

	im Analyzer - Occupied I				
Center Fr	RF 50 Ω AC eq 5.210000000		ENSE: PULSE Center Freq: 5.210000		10:51:37 AM Apr 25, 2018 Radio Std: None
]	#IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold:>10/10	Radio Device: BTS
10 dB/div	Ref 20.00 dBr	n			
Log 10.0					
0.00					
-10.0			and the second		
-20.0	for	under warder	- Charles and a sure of	and the work of the second second	amotor
-30.0					
-40.0					
-50.0	antranet				Manual Manua
-60.0					
-70.0					
Center 5.:	21 CH2				Span 115 MHz
#Res BW			#VBW 2.7 M	Hz	Sweep 1 ms
Occup	ied Bandwid				
	7	5.524 MHz			
Transm	nit Freq Error	155.92 kHz	OBW Power	99.00 %	
x dB Ba	andwidth	79.79 MHz	x dB	-26.00 dB	
MSG				STATUS	

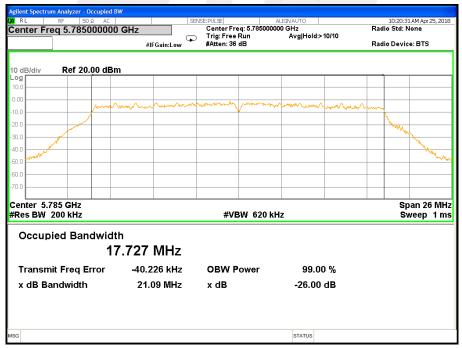


Antenna B

Band IV (5.725-5.850GHz) 802.11ac(HT20) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT20) Channel 149

RL	RF 50 Ω AC		SENSE:PULSE	ALIGNAUTO	10:17:34 AM		Frequency
enter Fre	eq 5.74500000) GHz Cen	ter Freq: 5.745000000 : Free Run Av	GHz g Hold:>10/10	Radio Std: I	None	requency
			en:36 dB		Radio Devi	e: BTS	
dB/div	Ref 20.00 dB	m					
g .0							Center Fre
o		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	and a statistical and a second	www.www			5.745000000 GH
0	was non	Varian Maria Maria		Were Connor (Connor)	harden		
o					- When		
						M.	
0 Worker						mun	
nter 5.7	745 GHz 200 kHz		#VBW 620 kHz			26 MHz 20 1 ms	CF Ste
CS DVV	200 KH2		#VBVV 020 KH2		awet	sh i ilis	2.600000 MH Auto Ma
Occup	ied Bandwid	th					
	1	7.716 MHz					Freq Offs
Transm	iit Freq Error	-30.898 kHz	OBW Powe	r 99	9.00 %		01
	andwidth	21.07 MHz	x dB		00 dB		
		21.01 10112	X GB	20.			
				STATU	s		с

26 dB &99% Bandwidth 802.11ac(HT20) Channel 157



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26 dB &99% Bandwidth 802.11ac(HT20) Channel 165

Agilent Spectrum An					
X/RL RF			ENSE:PULSE	ALIGNAUTO	10:22:42 AM Apr 25, 2018
Center Freq	5.825000000		Center Freq: 5.82500 Trig: Free Run	0000 GHz Avg Hold:>10/10	Radio Std: None
		#IFGain:Low	#Atten: 36 dB	Avginola.> 10/10	Radio Device: BTS
	Ref 20.00 dBi	m			
Log					
10.0					
0.00	Burner	Vanden Magan	marman marma	manna	m A membra
-10.0			Y		
-20.0					M NY
-30.0					
-40.0					\
-50.0					all and a second
-60.0					
-70.0					
10.0					
Center 5.825					Span 26 MHz
#Res BW 200) kHz		#VBW 620	kHz	Sweep 1 ms
0					
Occupied	d Bandwidt				
	1	7.714 MHz			
Transmit F	req Error	-28.862 kHz	OBW Power	99.00 %	
x dB Band	lwidth	21.01 MHz	x dB	-26.00 dB	
100				071710	

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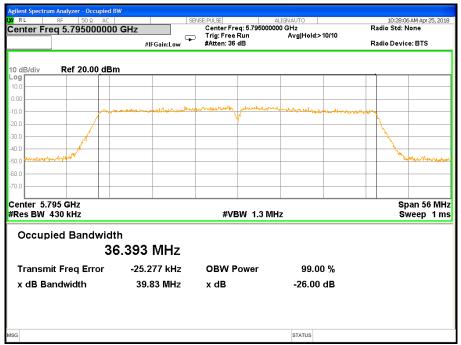
 Http://www.stsapp.com
 E-mail: sts@stsapp.com



Band IV (5.725-5.850GHz) 802.11ac(HT40) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT40) Channel 151

Agilent Spectrum Analyzer - Occu				
	AC	SENSE:PULSE Center Freq: 5.75500	ALIGNAUTO	10:25:25 AM Apr 25, 2018 Radio Std: None
Center Freq 5.755000	JUUU GHZ	👝 Trig: Free Run	Radio Sta: None Radio Device: BTS	
	#IFGain:Lo			
10 dB/div Ref 20.00	dBm			
Log				
10.0				
0.00		we have been been been and beinger	monometric de ano	
-10.0	manner manner white	Manufacture Manufacture	www.www.ubaulia.uku	maria
-20.0				<u> </u>
-30.0				
-40.0				
-50.0 minut Mar Mar				Manderson when have
-60.0				
-70.0				
Center 5.755 GHz				Span 56 MHz
#Res BW 430 kHz		#VBW 1.31	MHz	Sweep 1 ms
Occupied Bandy	vidth			
	36.380 MH	Z		
Transmit Freg Erro	or -15.021 kH	z OBW Power	99.00 %	
x dB Bandwidth	39.73 MH	lz xdB	-26.00 dB	
MSG			STATUS	

26 dB &99% Bandwidth 802.11ac(HT40) Channel 159





Band IV (5.725-5.850GHz) 802.11ac(HT80) 26 dB &99% Bandwidth 26 dB &99% Bandwidth 802.11ac(HT80) Channel 155

	um Analyzer - Occupied B						
XIRL Contor Fr	RF 50 Ω AC reg 5.775000000		ENSE:PULSE Center Freq: 5.775000	ALIGNAUTO	10:31:52 AM Apr 25, 2018 Radio Std: None		
Center Fi	red 5.775000000		Trig: Free Run	Avg Hold:>10/10			
		#IFGain:Low	IFGain:Low #Atten: 30 dB		Radio Device: BTS		
10 dB/div Log	Ref 20.00 dBr	n					
10.0							
0.00							
-10.0	Junor	and the stand of the	ment which shares	when hy with reden in which many	man		
-20.0							
-30.0							
-40.0					<u>_</u>		
-50.0 mm	umplant.				mand for the state of the state		
-60.0							
-70.0							
Center 5.	775 011-				Onen 115 Milli		
#Res BW			#VBW 2.7 M	Hz	Span 115 MH: Sweep 1 ms		
Occup	pied Bandwidt	h					
	75	5.574 MHz					
Transn	nit Freq Error	-21.213 kHz	OBW Power	99.00 %			
	andwidth	80.51 MHz	x dB	-26.00 dB			
	anuwiuun	00.51 WHZ	X UB	-20.00 UB			
100							
ISG				STATUS			