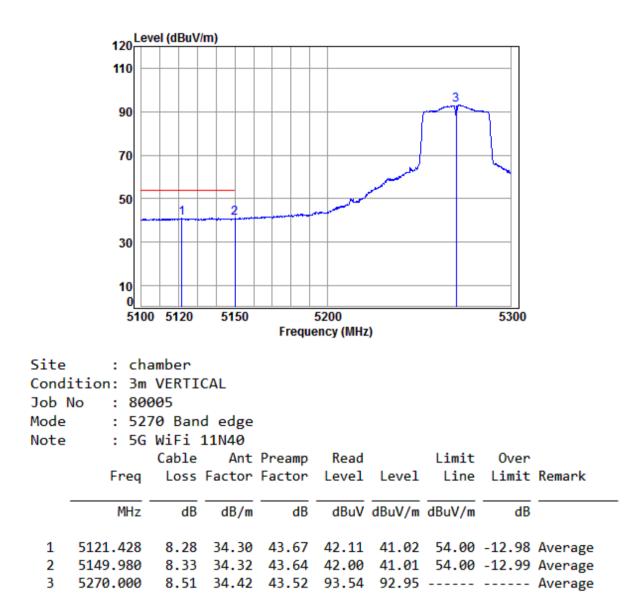


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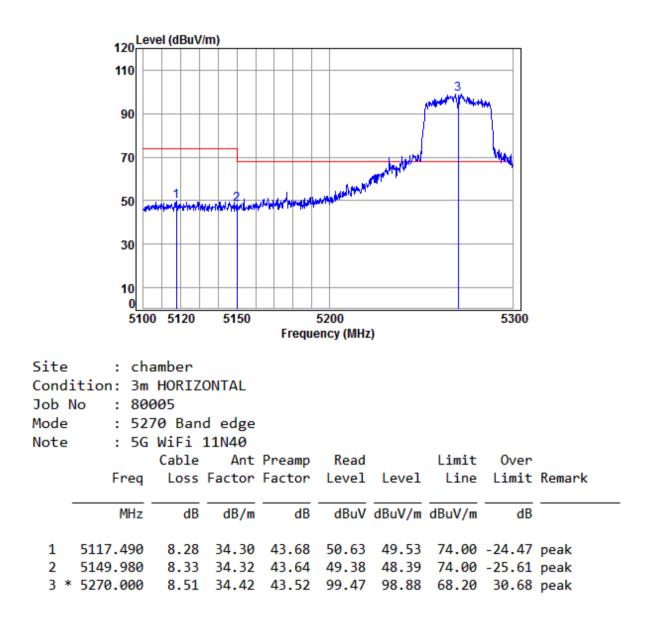
Test mode:802.11n(HT40)Frequency(MHz):5270AverageVertical
---





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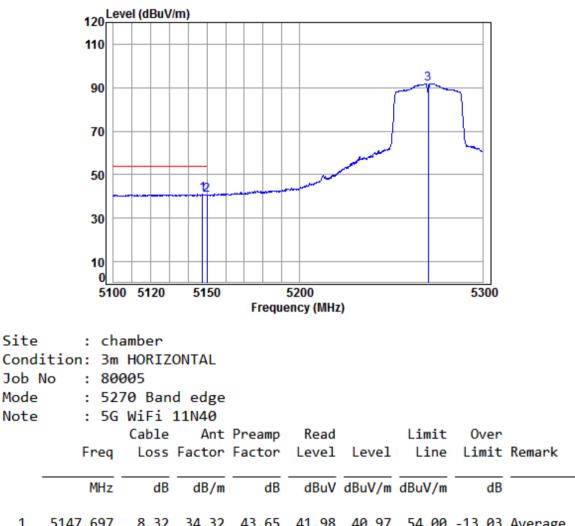
Test mode: 802.11n(HT40) Frequency(MHz):	5270	Peak	Horizontal
--	------	------	------------





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Test mode: 802.11n(HT40) Frequency(MHz):	5270	Average	Horizontal
--	------	---------	------------

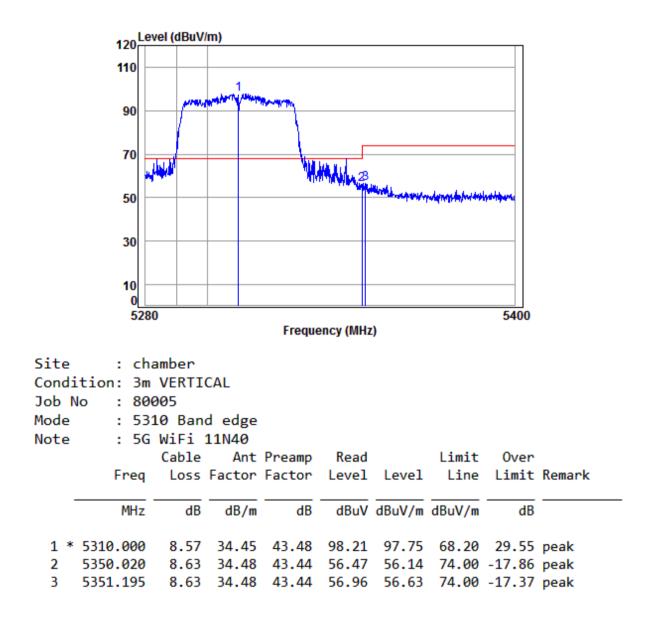


1	5147.697	8.32	34.32	43.65	41.98	40.97	54.00 -13.03 Average	
2	5149.980	8.33	34.32	43.64	41.82	40.83	54.00 -13.17 Average	
3	5270.000	8.51	34.42	43.52	92.52	91.93	Average	



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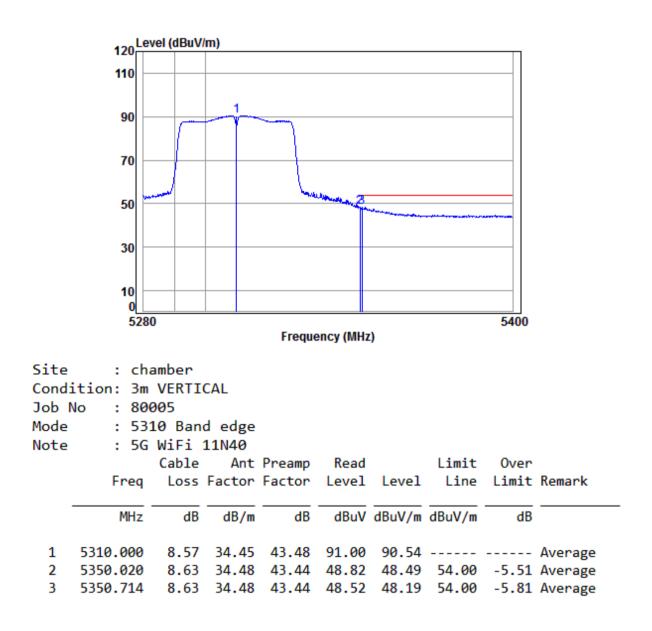
Test mode: 802.11n(HT40) Frequency(MHz):	5310	Peak	Vertical
--	------	------	----------





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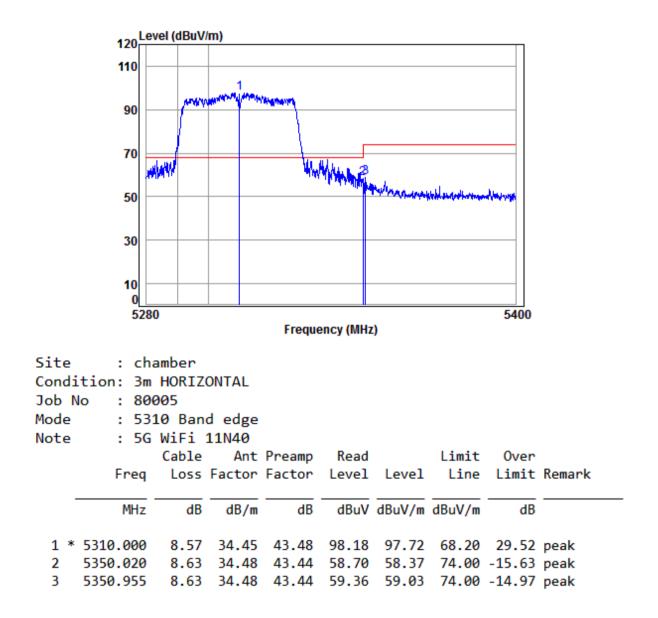
Test mode:802.11n(HT40)Frequency(MHz):5310AverageVertical
---





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Test mode: 802.11n(HT40) Frequency(MHz): 5310	0 Peak Horizontal
---	-------------------

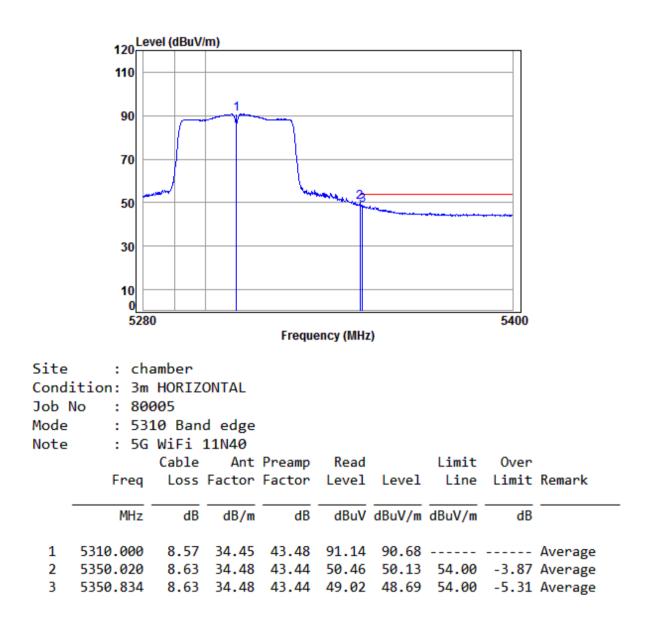


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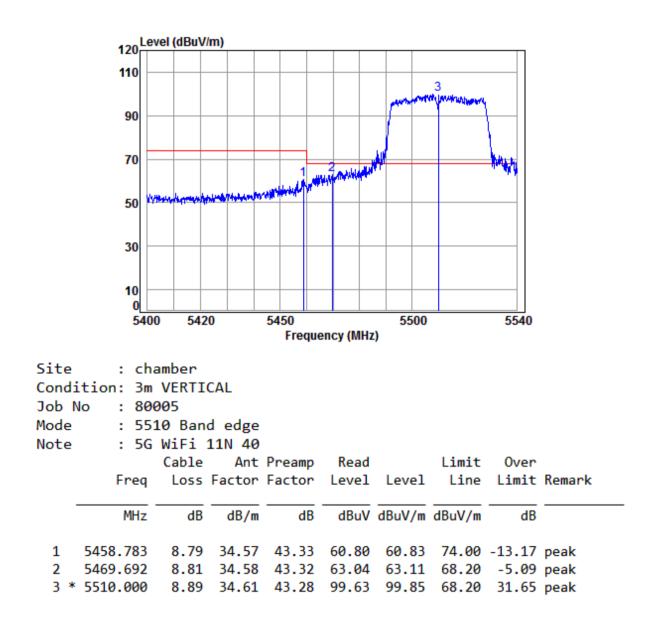
Test mode:802.11n(HT40)Frequency(MHz):5310AverageHoriz	ontal
--	-------





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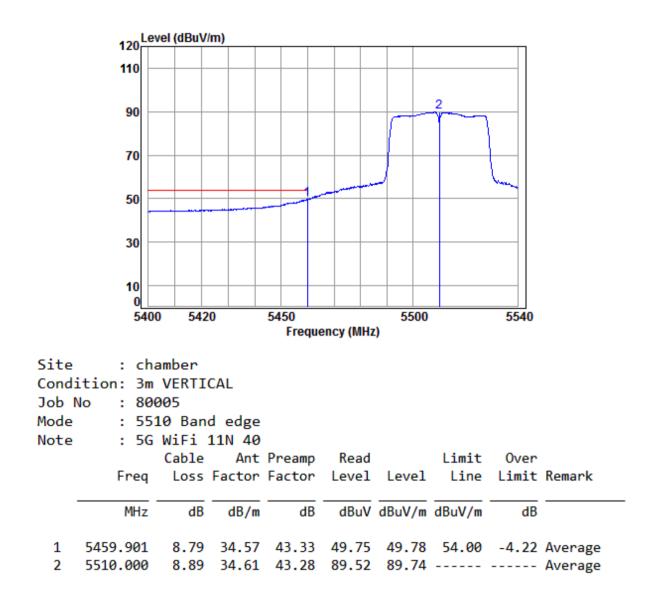
Test mode:802.11n(HT40)Frequency(MHz):5510	Peak	Vertical
--	------	----------





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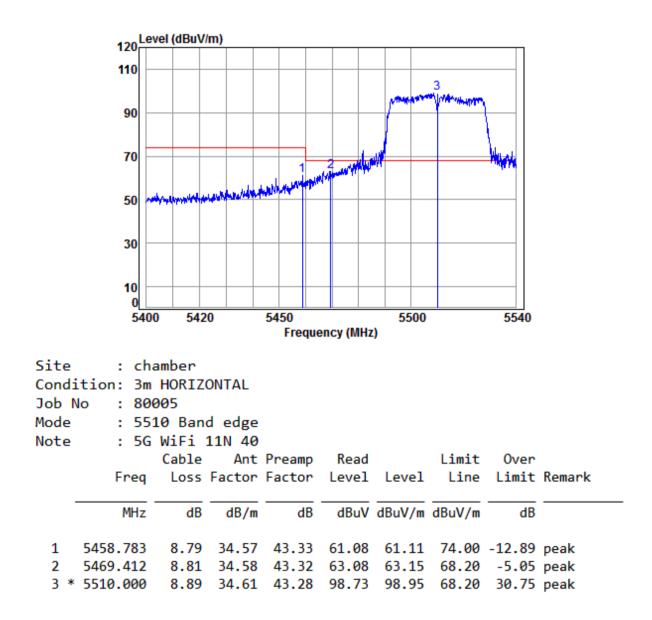
Test mode: 802.11n(HT40) Frequency(MHz):	5510	Average	Vertical
--	------	---------	----------





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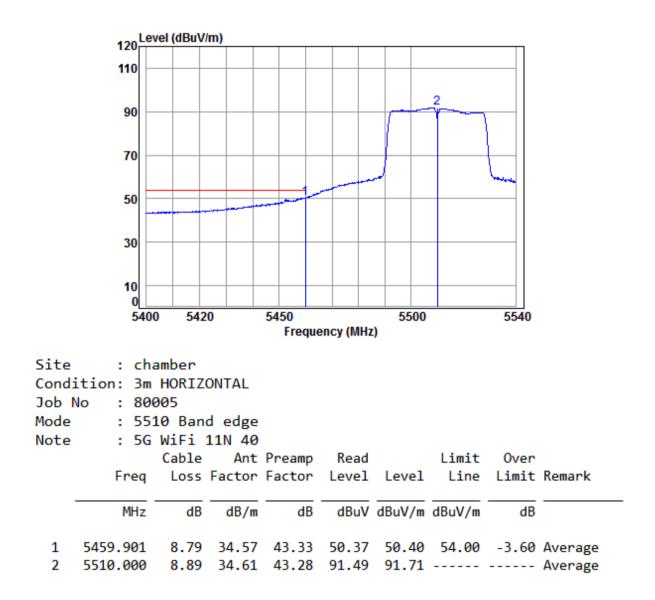
Test mode: 802.11n(HT40) Frequency(MHz):	5510	Peak	Horizontal
--	------	------	------------





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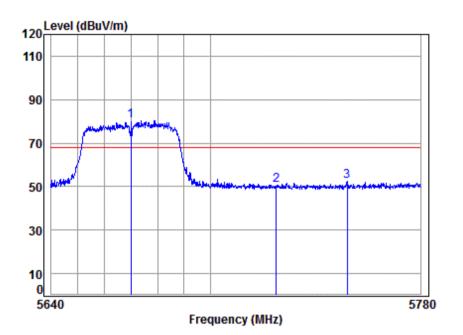
Test mode: 802.11n(HT40) Frequency(MHz):	5510	Average	Horizontal
--	------	---------	------------





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Test mode:802.11n(HT40)Frequency(MHz):5670PeakVertical
--



Condition: 3m VERTICAL Job No : 80005 Mode : 5670 Band edge Note : 5G WiFi 11N 40

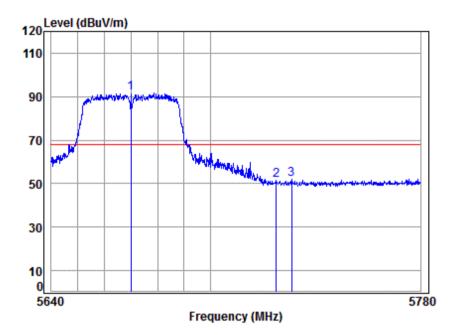
	Freq			Preamp Factor					Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
2	5670.000 5725.000 5751.866	9.64	34.83	41.84	47.87	50.50	68.20	-17.70	Peak

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Test mode:802.11n(HT40)Frequency(MHz):	5670	Peak	Horizontal
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Condition:	3m HORIZONTAL
Job No :	80005
Mode :	5670 Band edge
Note :	5G WiFi 11N 40

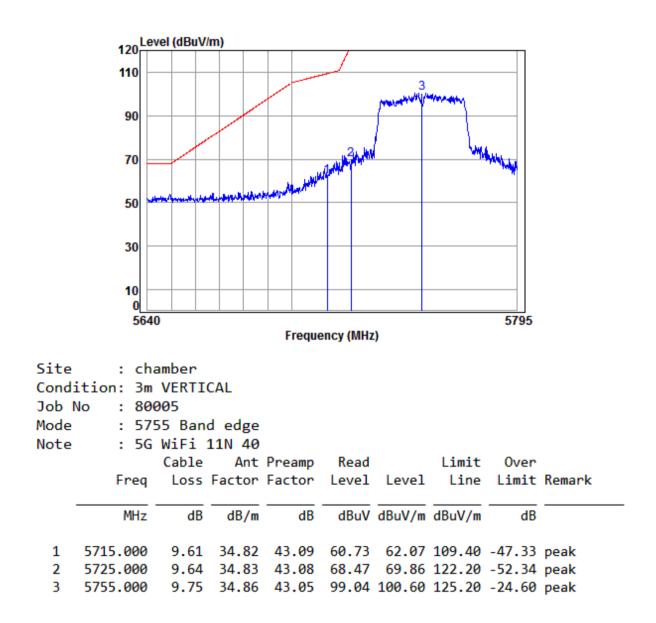
	Cable	Ant Preamp	Read		Limit	0ver	
Freq	Loss Fac	tor Factor	Level	Level	Line	Limit	Remark
MHz	dB d	B/m dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 5670.000	9.45 34	.77 41.88	89.19	91.53	68.20	23.33	peak
2 5725.000	9.64 34	.83 41.84	48.81	51.44	68.20	-16.76	peak
3 5730.750	9.66 34	.84 41.83	49.40	52.07	68.20	-16.13	peak

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Test mode: 802.11n(HT40) Fre	equency(MHz): 5755	Peak	Vertical
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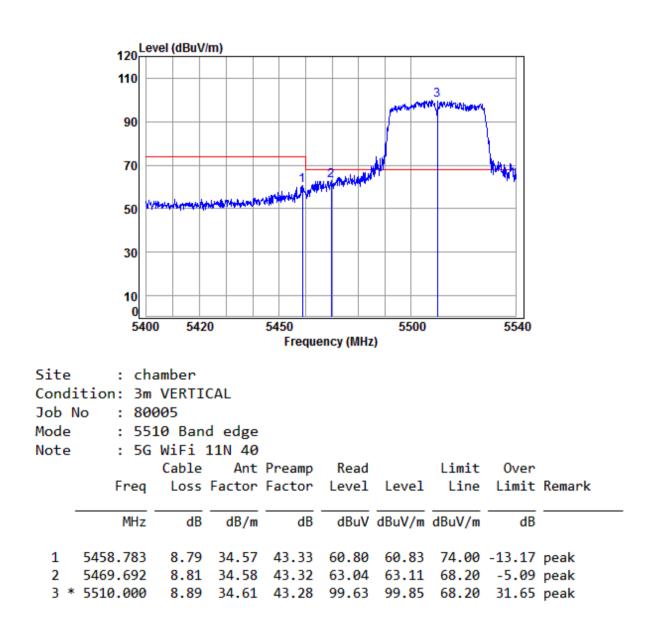


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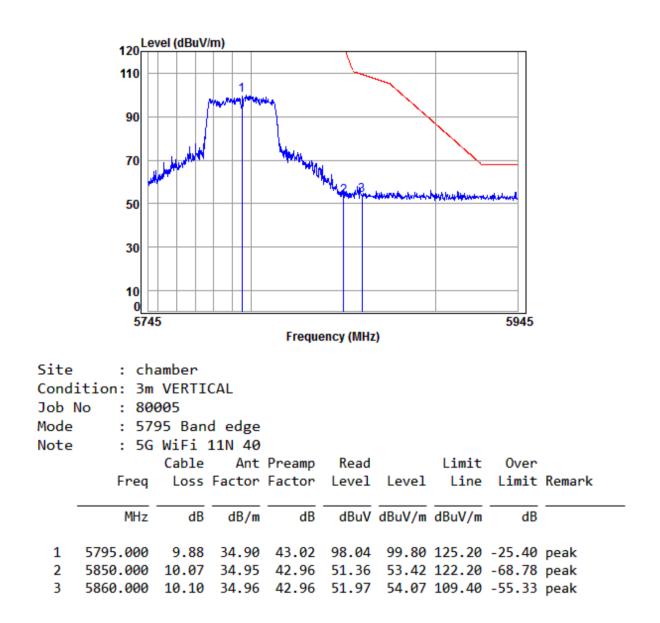
Test mode: 802.11n(HT40)	Frequency(MHz):	5755	Peak	Horizontal
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Test mode: 802.11r	n(HT40) Frequency(MHz):	5795	Peak	Vertical
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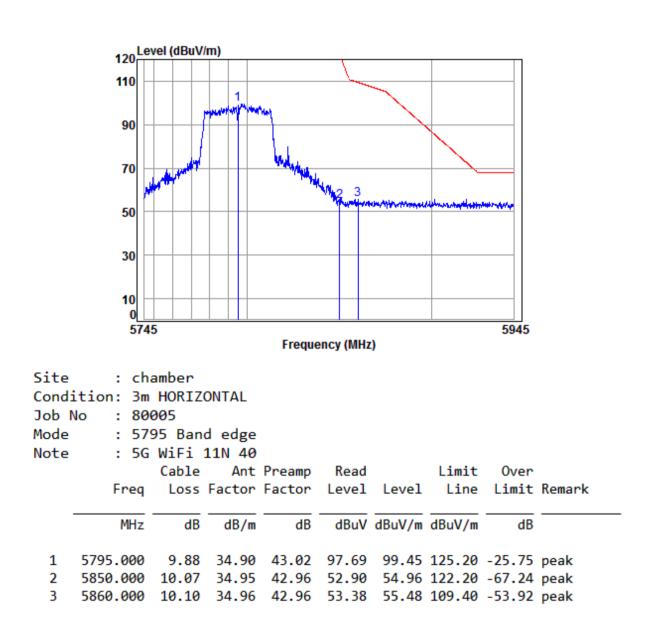


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Test mode:802.11n(HT40)Frequency(MHz):	5795	Peak	Horizontal
--	------	------	------------



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Test mode:	802.11ac(HT20 )	Frequency	y(MHz):	51	180	Peak	Vertical
	avel (dDu)//m)						
120 <sup>L</sup>	.evel (dBuV/m)						
110					2		
					All Martin		
90			_	-+			
						ula	
70				AND TO BE AND TO		THE REAL PROPERTY AND A	
		man and the second	Real				
50	www.aturan.elular.htm	and the second					
30							
10			_				
0			5450				
51	00 5110 5120		5150 ency (MHz	)		5200	
	hamber						
Condition: 3 Job No : 8	m VERTICAL 0005						
	0005 180 Band edg	•					
	G WiFi 11AC						
		t Preamp	Read		Limit	0ver	
Free				Level			Remark
MHz	z dB dB/i	m dB	dBuV	dBuV/m	n dBuV/m	dB	
1 5149.157	8.32 34.3	2 38.40	53.73	57.97	7 74.00	-16.03	peak
2 5149.986				58.65		-15.35	-
3 * 5180.000	8.37 34.3	5 38.38	97.59	101.93	68.20	33.73	peak

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Test mo	de:	802.11ac	(HT20	Frequency	y(MHz):	518	80	Average	V	ertical
		aval (dDate)	(m)							
	120	evel (dBuV/	<u>m)</u>							
	110									
							3			
	90		_		_					
							1			
	70									
	50									
	30									
	10									
	~	00 5110	5120		5150			5200		
				Freque	ency (MHz	)				
Site	: с	hamber								
	ition: 3		CAL							
Job I	No : 8	0005								
Mode		180 Ban	_							
Note	: 5	G WiFi :								
	[no.	Cable		Preamp Factor			Limit Line		Remark	
	Free	LOSS	Factor	Factor	Level	rever	LTUE	LIMIC	кепанк	
	MHz	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.357	8.32	34.32	38.40	44.00	48.24			Average	
2	5149.980		34.32						Average	
3	5180.000	8.37	34.35	38.38	90.07	94.41			Average	

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Test mode:	802.11ac(HT20 )	Frequency	/(MHz):	51	80	Peak	Horizontal
120 <sub>0</sub>	evel (dBuV/m)						
110							
					3		
90							
70				NWW -		Manual .	
			A Company and the second			1	
50	with the state of the state of the state of the	when the market	Winter.				
30							
10							
0							
51	100 5110 5120		5150 ency (MHz	)		5200	
	hamber						
Condition: 3 Job No : 8	M HORIZONIAL 0005						
	180 Band edg	<u>م</u>					
	G WiFi 11AC						
···· · ·		t Preamp	Read		Limit	0ver	
Free	q Loss Facto	r Factor	Level	Level	Line	Limit	Remark
MLI	z dB dB/		-dB-W	dD. M/m	dBull/m		
MHz	z dB dB/	m dB	ubuv	ubuv/m	dBuV/m	dB	
1 5148.857	7 8.32 34.3	2 38.40	54.00	58.24	74.00	-15.76	peak
2 5149.986						-17.84	•
3 * 5180.000	8.37 34.3	5 38.38	94.90	99.24	68.20	31.04	peak

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Test mod	de:	802.11ac )	(HT20	Frequency	y(MHz):	518	30	Average	Horizontal
			<i>.</i>						
	120	_evel (dBuV	/m)						
	110								
	90						3		
						- C			
	70				_				
	50				P-A				
		·							
	30								
	10 0								
	51	00 5110	5120		5150			5200	
				Freque	ency (MHz	)			
Site	: c	hamber							
	ition: 3		ONTAL						
Job I		0005							
Mode Note		180 Ban G WiFi		a					
Note		Cable		Preamp	Read		Limit	0ver	
	Free			Factor					Remark
						10.14	10.14		
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.157	7 8.32	34.32	38.40	43.14	47.38	54.00	-6.62	Average
2	5149.980	8.33	34.32	38.40	43.69				Average
3	5180.000	8.37	34.35	38.38	87.37	91.71			Average

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802 11ac(HT20

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11ac(I )	F	requency	(MHz):	524	40	Peak	Vertical
	ovol (dDu)//r	-						
120 <sup>L</sup>	.evel (dBuV/r	ii)						
110								
	hand	M						
90								
70	Martin .	Why we						
			Wie.					
50			Well & Mary may	-	فسياد والمراجع	Andreas and the second	3	
30								
10 0								
	20	5250					5360	
			Freque	ency (MHz	)			
	hamber							
Condition: 3 Job No : 8	m VERTIC 0005	AL						
	240 Band	edge						
	G WiFi 1	-	)					
_	Cable		Preamp	Read		Limit	0ver	
Fred	Loss	actor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5240.000		34.40	38.34			68.20		
2 5350.020 3 5350.646		34.48 34.48	38.27 38.26	42.26 44.30	47.10 49.15		-26.90 -24.85	•
5 5550.040	. 0.05	54.40	50.20	44.50	47.17	/4.00	24.05	peak

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Test mod	de:	802.11ac )	(HT20	Frequenc	y(MHz):	524	40	Average	Vertical
	-								
	120	Level (dBuV	/m)						
	110								
	90								
	70								
	50								
								2	
	30								
	10								
	0 50	220	5250					5360	
			0200	Frequ	ency (MHz	2)		0000	
Site		L							
	: c ition: 3	hamber m VERTT	CAL						
Job I		0005	CAL						
Mode	: 5	240 Ban	d edge						
Note	: 5	G WiFi							
	_	Cable		Preamp			Limit		
	Free	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MH:	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5240.000	8.46	34.40	38.34	90.14	94.66			Average
2	5350.020			38.27		40.71	54.00	-13.29	Average
3	5350.504	4 8.63	34.48	38.26	35.77	40.62	54.00	-13.38	Average

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Test mode:	802.11ac(HT20 )	Frequency	(MHz):	5240	Peak	Horizontal
	aval (dDa)((m)					
120 <sup>L</sup>	.evel (dBuV/m)					
110						
	mound					
90						
70	und here					
70	# <sup>4</sup>	4				
50		White and			23	
50				n iyyin manin kalinda	pland of the state	
30						
10						
0_	20 5250				5360	
52	.20 5250	Freque	ncy (MHz)		5500	
Site : c	hamber					
Condition: 3						
	0005					
	240 Band edge					
Note : 5	G WiFi 11AC 2 Cable Ant	20 t Preamp	Read	Limi	t Over	
Fred					e Limit	Remark
MHz	z dB dB/r	n dB	dBuV dE	3uV/m dBuV/	m dB	
1 * 5240.000	8.46 34.40	38.34	94.28 9	98.80 68.2	0 30.60	peak
2 5350.020	8.63 34.48	8 38.27	42.28 4	47.12 74.0	0 -26.88	
3 5354.754	8.64 34.49	9 38.26	43.89 4	48.76 74.0	0 -25.24	peak

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Test mod	de:	802.11ac(HT2 )	<sup>0</sup> Frequenc	y(MHz):	524	40	Average		Horizontal
		ovol (dBu\//m)							
	120	Level (dBuV/m)							
	110								
	90								
	70								
			$\mathbf{X}$						
	50						2		
	30								
	10 0								
	5	220 5250					5360		
			Frequ	ency (MHz	)				
Site	: c	hamber							
		m HORIZONTA	AL.						
Job N		0005							
Mode Note		240 Band ed G WiFi 11A	-						
Note	: >		Ant Preamp	Read		Limit	0ver		
	Free		tor Factor		Level			Remark	
	MH:	z dB di	B/m dB	dBuV	dBuV/m	dBuV/m	dB		
1	5240.00	a 8.46 34	.40 38.34	87.20	91.72			Average	2
2	5350.020		.48 38.27					Average	
3	5350.78	7 8.63 34	.48 38.26	35.77	40.62	54.00	-13.38	Average	2



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Test mode:	802.11ac(HT20 )	Frequenc	Frequency(MHz):			Peak	Vertical
120	_evel (dBuV/m)						
110					3		
90						<u> </u>	
70					1	<u></u>	
				لملجه طليليك	h.		
50	Muna-guessies	2	an performance	all the second s			
30							
10							
U_ 51	100 5120 51	50	5200			5280	
		Frequ	iency (MHz	)			
	hamber						
Condition: 3 Job No : 8	m VERTICAL 0005						
	260 Band edg	e					
	G WiFi 11AC2						
_		t Preamp			Limit	0ver	
Free	q Loss Facto	or Factor	Level	Level	Line	Limit	Remark
MH	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5146.737						-25.06	-
2 5149.980		43.64				-26.69	-
3 * 5260.000	8.49 34.4	1 43.53	101./2	101.09	68.20	32.89	peak

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Test mod	de:	802.11ac )	:(HT20	Frequency	y(MHz):	526	60	Average	Vertical
			i						
	120	Level (dBuV	// <b>m)</b>						
	110								
	3								
	90								
	70						$\rightarrow$	+	
	50	1							
				·					
	30								
	10								
	5	100 5120	515		5200		I	5280	
				Freque	ency (MHz	)			
Site	: c	hamber							
Condi	ition: 3	m VERTI	CAL						
Job I		0005							
Mode		260 Ban	_						
Note	: 5	G WiFi Cable		Preamp	Road		Limit	0ver	
	Free			Factor					Remark
	MH:	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5126.78	1 8.29	34.31	43.67	40.23	39.16	54 00	-14 84	Average
2	5149.98			43.64					Average
3	5260.000								Average

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Test mode:	802 )	.11ac(I	HT20	requenc	y(MHz):	52	60	Peak	Horizontal	
	120 Level	(dBuV/n	n)							
	110	_					3			
	90									
							. " <b>"</b>			
	70		_				Mar.	- <b>*</b>		
	1									
	50	<b>huqund</b> hahand			www.l/w/www					
	30									
	10									
	5100	5120	5150		5200			5280		
				Frequ	ency (MH)	()				
Site	: cham	ber								
Condition			NTAL							
	: 8000									
	: 5260 : 5G W:		-							
NOLE		able		Preamp	Read		Limit	0ver		
1				Factor		Level			Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 5100	.177	8.25	34.28	43.69	53.34	52.18	74.00	-21.82	peak	
2 5149	.980	8.33	34.32	43.64	52.09	51.10		-22.90	•	
3 * 5260	.000	8.49	34.41	43.53	103.82	103.19	68.20	34.99	peak	

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Test mod	de:	802.11ac )	(HT20	Frequency	y(MHz):	520	60	Average	Horizontal
		ovol (dDr/V	(m)						
	120 <sup>L</sup>	evel (dBuV							
	110								
	90								
	70								
						/			
	50		12						
	30								
	30								
	10								
	0								
	51	00 5120	5150		5200 ency (MHz	a		5280	
				Treque	circy (min	-)			
Site		hamber							
Condi Job N	ition: 3	m HORIZ 0005	ONTAL						
Mode		0005 260 Ban	d edge						
Note		G WiFi	-						
		Cable		Preamp	Read		Limit	0ver	
	Free	l Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	-dBuV		dBuV/m	dB	
	11112	uD	00/11	ub	ubuv	ubuv/m	ubuv/ill	ub	
1	5146.915			43.65					Average
2	5149.980								Average
3	5260.000	8.49	34.41	43.53	96.66	96.03			Average



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Test mode:	802.11ac(HT20 )	Frequency(MHz):	5320	Peak	Vertical
120	Level (dBuV/m)			· · · · · · · · · · · · · · · · · · ·	
110					
	1				
90		<b>\</b>			
70	Jow M	Mine.			
		12 3			
50				- Back J	
		Mnyu 23		Mar (1997) (1997) 1991	
30					
10					
0					
5	300 5310 5320	5350 Frequency (MH:	z)	5400	
			-,		
	chamber				
Condition: 3 Job No : 8					
	80005 5320 Band edg	•			
	5520 Band edg 56 WiFi 11AC2				
		t Preamp Read	Limit	t Over	
Fre		r Factor Level	Level Line	e Limit	Remark
MH	lz dB dB/	m dB dBuV	dBuV/m dBuV/r	n dB	
1 * 5320.00		6 43.47 101.55		32.92	
2 5350.02				0 -18.51	
3 5352.86	7 8.63 34.4	9 43.44 57.80	57.48 74.00	0 -16.52	peak

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Test mo	de:	802.11ac )	(HT20	Frequency	/(MHz):	532	20	Average	Vertical
		aval (dDu)	()						
	120	evel (dBuV	/m)						
	110								
			1						
	90				_		_		
	70			$\vdash$					
	50			$\rightarrow$	2				
	30								
	10								
	0	00 5310	5320		5350			5400	
	55	00 5510	5520		ency (MHz	)		5400	
e.,		h a sa h							
Site	ition: 3	hamber m VERTT	CAL						
Job I		0005	CAL						
Mode		320 Ban	d edge						
Note		G WiFi	_						
		Cable		Preamp			Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.58	34.46	43.47	94.42	93.99			Average
2	5350.020			43.44					Average
3	5350.767	8.63	34.48	43.44	46.38	46.05	54.00	-7.95	Average

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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11ac(HT20 )	Frequency	(MHz):	532	20	Peak	Horizontal
					·		
120	Level (dBuV/m)						
110							
	1						
90							
		1					
70	- AND AND	hand the state of	_				
	M <sup>44</sup>		22				
50		¥	WW WHATHAT	horetheast	And a march at	المد والد الم	
30							
10 0							
-	300 5310 5320		350	I		5400	
		Freque	ncy (MHz)				
Site : d	hamber						
	3m HORIZONTAL						
	30005						
	5320 Band edg 5G WiFi 11AC2						
Note :		o t Preamp	Read		Limit	0ver	
Fre				Level	Line		Remark
MH	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5320.00	0 8.58 34.4	6 43.47	100.57	100.14	68.20	31.94	peak
2 5350.02	0 8.63 34.4	8 43.44	52.83	52.50	74.00	-21.50	peak
3 5352.46	7 8.63 34.4	9 43.44	51.91	51.59	74.00	-22.41	peak

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Test mod	de:	802.11ac )	(HT20	Frequency	y(MHz):	532	20	Average	Horizontal
	-								
	120	evel (dBuV	/m)						
	110								
	90				_				
	70								
	50			$\rightarrow$	3		_		
					Turnet				
	30								
	10				_				
	0_ 53	<b>600 5310</b>	5320		5350			5400	
					ency (MHz	)			
Site	• •	hamber							
	ition: 3		ONTAL						
Job I		0005							
Mode		320 Ban	_						
Note	: 5	G WiFi		_				_	
	<b>F</b>	Cable		Preamp			Limit		Dements
	Freq	LOSS	Factor	Factor	Level	Level	Line	Limit	кемагк
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5320.000	8.58	34.46	43.47	93.66	93.23			Average
2	5350.020			43.44					Average
3	5350.866	5 <b>8.6</b> 3	34.48	43.44	44.73	44.40	54.00	-9.60	Average

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Test mode:	802.	11ac(HT20	Frequenc	y(MHz):	550	00	Peak	Vertical
	120 Level (	dBuV/m)						
	110							
						ANIN THE MAKE		
	90							
					1			
	70			_	M		Mal	
					HAR .		1	
	50	-		and the state				
	30							
	10							
	0							
	5400	5420	5450 Frequ	ency (MHz	9	5500	5520	
				, , , , , , , , , , , , , , , , , , , ,	·			
Site	: chamb							
Condition								
Job No Mode	: 80005	Band edg	~					
Note		Fi 11AC2						
noce			t Preamp	Read		Limit	0ver	
		oss Facto			Level			Remark
					10.11/	10.111		
	MHz	dB dB/	m dB	dBuV	dBuV/m	aBuV/m	dB	
1 5459	.791 8	.79 34.5	7 43.33	58.43	58.46	74.00	-15.54	peak
2 5468	.197 8	.80 34.5	8 43.32	59.43	59.49	68.20	-8.71	-
3 * 5500	.000 8	.85 34.6	0 43.29	101.48	101.64	68.20	33.44	peak

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Test mod	le:	802.11ac	(HT20	Frequency	/(MHz):	550	00	Average	Vertical
	120	_evel (dBuV	/m)						
	110								
							2		
	90						$\frown$		
						/			
	70							$\forall \parallel$	
	50								
	50								
	30								
	10								
	0 54	100 54	20	5450			5500	5520	
					ency (MHz	)			
Site	: c	hamber							
	ition: 3		CAL						
Job N	lo : 8	0005							
Mode	: 5	500 Ban	d edge						
Note	: 5	G WiFi							
				Preamp			Limit	0ver	
	Free	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.910	8.79	34.57	43.33	45.57	45.60	54.00	-8.40	Average
2	5500.000	8.85	34.60	43.29					Average

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Test mode:	802.11ac(HT20 )	Frequency(MHz):	5500	Peak	Horizontal
	ovol (dBu)//m)				
120 <mark>L</mark>	evel (dBuV/m)				
110			2		
			prostation and a	<b>.</b>	
90					
70				Mark	
		1	att Y		
50	When the second second	and a constrained with the start of the star			
30					
50					
10					
0					
54	100 5420	5450	5500	5520	
		Frequency (MH)	L)		
Site : c	hamber				
Condition: 3	m HORIZONTAL				
	0005				
	500 Band edg				
Note : 5	G WiFi 11AC2			-	
-		t Preamp Read			Demonto
Free	Loss Facto	r Factor Level	Level Line	e Limit	Kemark
MHz	dB dB/	m dB dBuV	dBuV/m dBuV/r	n dB	
1 5450 704	9 70 24 5	7 43 33 50 45		. 14 52	naak
1 5459.791 2 5469.519				0 -14.52 0 -6.16	
3 * 5500.000		0 43.29 102.94		34.90	-



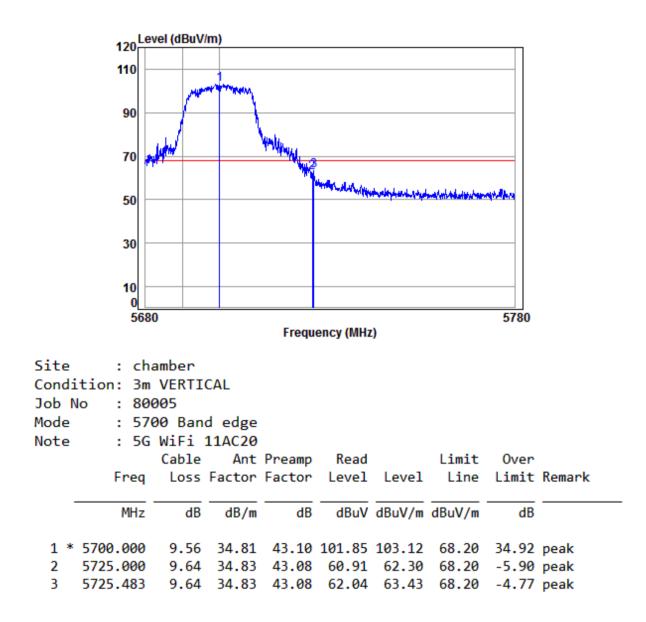
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Test mod	de:	802.11ac )	(HT20	Frequency	/(MHz):	550	00	Average	Horizontal
	120	Level (dBuV	(m)						
	110								
							2		
	90								
	70							+	
	50								
	30				_				
	10								
	0 54	400 54	20	5450			5500	5520	
	_				ency (MHz	)			
Site		hamber							
	: c ition: 3		ΟΝΤΛΙ						
Job N		0005	ONTAL						
Mode		500 Ban	d edge						
Note		G WiFi	_						
				Preamp			Limit		
	Free	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.791	1 8.79	34.57	43.33	48.05	48.08	54.00	-5.92	Average
2	5500.000								Average



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Test mode: 802.11ac(HT20)	Frequency(MHz):	5700	Peak	Vertical
---------------------------	-----------------	------	------	----------

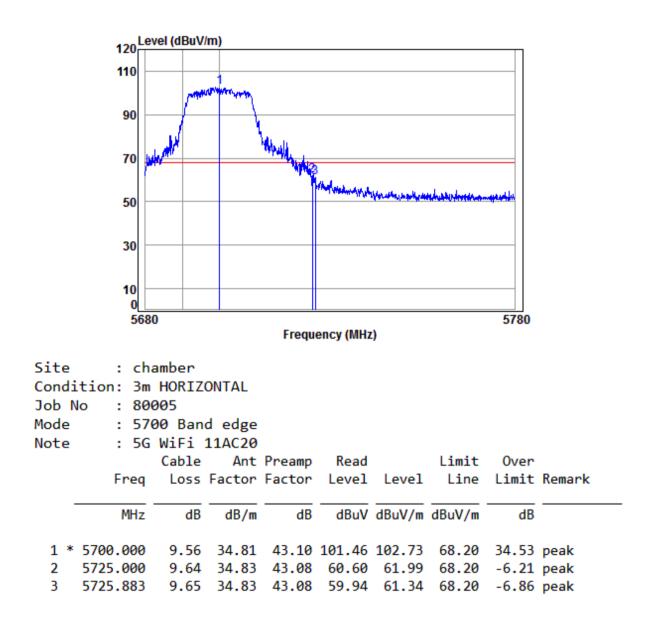


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Test mode: 802.11ac(HT	Frequency(MHz):	5700	Peak	Horizontal
------------------------	-----------------	------	------	------------





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Test mode	:	802.11ac(HT: )	20 Frequence	cy(MHz):	574	45	Peak	Vertical
	<b>a</b> aa L	evel (dBuV/m)						
	120							
	110				3			
					-	here a		
	90				1			
				2	للجروا	mu.		
	70			2 		1		
		a su allach là de rèine a du ann de		Nella Street Law			milion	
	50							
	20							
	30							
	40							
	10 0							
	56	40	From	anov (MUz			5780	
			Frequ	uency (MHz	)			
Site	: cl	hamber						
		m VERTICAL	-					
Job No		0005						
Mode Note		745 Band e G WiFi 11A	-					
Note	: 50	Cable		Read		Limit	0ver	
	Freq	Loss Fac						Remark
_								
	MHz	dB d	dB/m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5	715.000	9.61 34	4.82 43.09	59.34	60.68	109.40	-48.72	peak
	725.000	9.64 34	4.83 43.08	71.90	73.29	122.20	-48.91	peak
3 5	745.000	9.71 34	4.85 43.06	100.90	102.40	125.20	-22.80	peak



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Test mode	e:	802.11ac(HT )	20 Free	quency(MH	z):	574	15	Peak		Horizontal
	400	.evel (dBuV/m)								
					1					
	110				_	3				
						meter	"hely			
	90									
					2 1		Me			
	70				M		100			
			dia a constant	un and the state	MC			The age		
	50									
	20									
	30									
	10									
	0									
	56	<b>i40</b>		Frequency	(MU-)			5780		
				rrequency	(MITIZ)					
Site	: c	hamber								
		m HORIZONI	ΓAL							
Job No		0005								
Mode Note		745 Band e G WiFi 11/	<u> </u>							
Nore	: )	Cable		eamp R	ead		Limit	0ver		
	Freq	Loss Fa							Remark	
_										
	MHz	dB d	dB/m	dB d	BuV dBu	V/m	dBuV/m	dB		
1	5715.000	9.61 3	4.82 4	3.09 56	.45 57	.79	109.40	-51.61	peak	
	5725.000	9.64 3	4.83 4	3.08 67	.84 69	.23	122.20	-52.97	peak	
3	5745.000	9.71 3	4.85 4	3.06 99	.97 101	.47	125.20	-23.73	peak	



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Test mode:	802.11ac(HT20 )	Frequenc	y(MHz):	582	25	Peak	Vertical
110 90 70	.evel (dBuV/m)	Market Hand					
50 30 10 0							
57	790 5810	5850 Frequ	ency (MHz	.)		5945	
Condition: 3 Job No : 8 Mode : 5	0005 825 Band edge G WiFi 11AC Cable An Loss Factor	e 20 t Preamp r Factor	Read Level		Line	Limit	Remark
1 5825.000							neak
	0 10.07 34.9		57.24	59.30	122.20	-62.90	peak



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Test mod	de:	802.11ac(HT2 )	<sup>20</sup> Frequenc	y(MHz):	582	25	Peak	Horizo	ntal
	120	evel (dBuV/m)							
	110								
	90								
	70	. Mark							
		all water and a second	M2 Unda	wanter and	and to reduce by	den state to see			
	50								
	30								
	10 0								
	57	790 5810	5850	(0.01)			5945		
			Frequ	ency (MHz	)				
Site	: c	hamber							
		m HORIZONT	AL						
Job N Mode		0005 825 Band e	daa						
Note		G WiFi 11A	<u> </u>						
Note			Ant Preamp	Read		Limit	0ver		
	Free	Loss Fac						Remark	
	MH:	z	IB/m dB	dBuV	dBuV/m	dBuV/m	dB		
1	5825.000		.93 42.99					•	
2			.95 42.96					•	
3	5860.000	0 10.10 34	.96 42.96	54.31	56.41	109.40	-52.99	peak	



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Test mode:	802.11ac(HT40 )	Frequency	/(MHz):	519	90	Peak	Vertical
120	Level (dBuV/m)						
110							
				3			
90				Martin Martin	U.S. C.		
					1		
70						Lines.	
		12 min	H-WANT .			ALCONT. AN	
50	pitrings-faction-scatteres	us with attraction					
30							
10							
0							
51	100 5120	5150 Freque	ency (MHz	)	5200	5220	
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,			
	hamber						
Condition: 3 Job No : 8	m VERTICAL 0005						
	190 Band edg	e a					
	G WiFi 11AC						
		t Preamp	Read		Limit	0ver	
Free	q Loss Facto	or Factor	Level	Level	Line	Limit	Remark
MH:	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5148.863	3 8.32 34.3	2 43.64	61 60	60 60	74 99	-13.40	neak
2 5149.98						-14.28	•
3 * 5190.000						29.46	•



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Test mo	de:	802.11ac	(HT40	requency	/(MHz):	519	90	Average	Vertical
		Level (dDate)							
	120	Level (dBuV/	m)						
	110								
	90				ſ	Ŷ			
	70								
								~	
	50								
	30								
	50								
	10								
	0								
	5	5100 51	20	5150 Freque	ency (MHz	)	5200	5220	
				•		-			
Site		chamber 3m VERTI(	CA1						
Job I		80005	CAL						
Mode		5190 Ban	d edge						
Note	: !	5G WiFi 🔅							
	<b>F</b>	Cable		Preamp			Limit		Remark
	Fre	eq LOSS	Factor	Factor	revel	revel	Line	Limit	Remark
	MH	lz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.34		34.32	43.64	51.91				Average
2	5149.98		34.32	43.64	52.32	51.33			Average
3	5190.00	0 8.39	34.36	43.60	90.99	90.14			Average



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Test mode:	8	302.11ac( )	(HT40	Frequency	y(MHz):	519	90	Peak	Horizontal
	120	vel (dBuV/	m)						
	110								
	90					-	Same with a		
	70								
					A MARINE			APAN A	
	50 🛤	and a star of the star of the	and the state	san allow the					
	30								
	10								
	0								
	510	0 51	20	5150 Erecut	ency (MHz	<b>`</b>	5200	5220	
				Tieque	ency (minz	,			
Site		amber							
Condition			ONTAL						
Job No	: 80								
Mode Note		90 Band WiFi (	_	a					
Note	. 56	Cable		Preamp	Read		Limit	0ver	
	Freq			Factor		Level			Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5142	.400	8.31	34.32	43.65	60.78	59.76	74.00	-14.24	peak
	.980	8.33	34.32					-17.51	
3 * 5190	.000	8.39	34.36	43.60		94.55		26.35	



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Test mod	le:	802.11ac(HT4 )	Frequenc	cy(MHz):	519	90	Average	F	lorizontal
	120	Level (dBuV/m)							
	110								
	90								
				_   _∫					
	70			+					
			<u> </u>	hand			$\sim$		
	50								
	30								
	50								
	10								
	0								
	5	100 5120	5150 Frequ	) Jency (MHz	)	5200	5220		
e				-					
Site Condi		hamber M HORIZONT	Δ1						
Job N		30005							
Mode		190 Band e	dge						
Note	: 5	G WiFi 11A							
	-		Ant Preamp			Limit		Dament	
	Fre	y Loss ⊦ac	tor Factor	rever	rever	Line	LIMIT	Remark	
	MH:	z dB d	IB/m dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.342		.32 43.64					Average	
2	5149.98		.32 43.64					Average	
3	5190.00	0 8.39 34	.36 43.60	88.13	87.28			Average	



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Test mode:	802.11ac(HT40 )	Frequency(MHz):	5230 Peak	Vertical
120 L	evel (dBuV/m)			
110				
	-			
90				
70		Mindra Aller		
		""When we have a second	- 2	
50			Wall an and index so and index	
30				
40				
10 0				
52	200 5220	5250 Frequency (MHz)	5360	
		(WILZ)		
	hamber			
Condition: 3				
	0005			
	230 Band edg			
Note : 5	G WiFi 11AC		Linit Ora	
Fred		t Preamp Read r Factor Level Le	Limit Over vel line limit	Remark

	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 52	230.000	8.45	34.39	38.35	95.94	100.43	68.20	32.23	peak
2 53	350.020	8.63	34.48	38.27	43.75	48.59	74.00	-25.41	peak
3 53	358.051	8.64	34.49	38.26	45.32	50.19	74.00	-23.81	peak



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Test mo	de:	802.11ac(H <sup>-</sup> )	F40 Frequ	ency(MHz):	523	30	Average	Vertical
								· · · · · · · · · · · · · · · · · · ·
	120	evel (dBuV/m)						
	110							
	90							
	70			••••				
				$\mathcal{N}$				
	50						2	
	30							
	10							
	0							
	52	200 5220	5250 Fi	equency (MH	7)		5360	
				oquonoj (mn	-,			
Site		hamber						
Job I		m VERTICA 0005	L					
Mode		230 Band	edge					
Note		G WiFi 11	AC 40					
	<b>F</b>	Cable		amp Read		Limit		Demonto
	Free	l LOSS Fa	actor Fact	or Level	Level	Line	Limit	Kemark
	MHz	z dB	dB/m	dB dBuV	dBuV/m	dBuV/m	dB	
1	5230.000	8.45 3	34.39 38.	35 88.57	93.06			Average
2	5350.020		34.48 38.					Average
3	5350.749	8.63 3	34.48 38.	26 36.58	41.43	54.00	-12.57	Average



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Test mode:	802.11ac(HT40 )	Frequency	y(MHz):	523	30	Peak	Horizontal
	evel (dRuV/m)						
120	Level (dBuV/m)						
110							
	and some some						
90		1					
		here					
70	M	him was and	l.,				
50			"hallowla			2	
00				and the second se	the second second		
30							
10							
0							
54	200 5220	5250 Frequ	ency (MHz	)		5360	
	hamber m HORIZONTAL						
	0005						
Mode : 5	230 Band edg	e					
Note : 5	G WiFi 11AC						
[		t Preamp		Loval	Limit Line	Over	Remark
Free	4 LOSS FACTO	r Factor	rever	rever	LINE	LIMIC	кешагк
MH:	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 * 5230.000			92.00		68.20		
2 5350.020			44.02			-25.14	•
3 5350.911	1 8.63 34.4	8 38.26	43.77	48.62	74.00	-25.38	peak



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Test mod	de:	802.11ac )	(HT40	Frequenc	y(MHz):	523	30	Average	Н	orizontal
		ovol (dDv)	(m)							
	120 <mark>1</mark>	Level (dBuV	/ <b>III)</b>							
	110				_					
	90		h							
	70									
	70									
	50				$\checkmark$					
								2		
	30									
	10									
	0 52	200 5220	52	250		<u> </u>		5360		
					ency (MHz	)				
Site	: c	hamber								
Condi	ition: 3		ONTAL							
Job I		0005								
Mode		230 Ban	_	_						
Note	: 5	G WiFi			Deed		14-44	0		
	Free	Cable Loss			Read Level		Limit Line	Over limit	Remark	
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5230.000	8.45	34.39	38.35	84.67	89.16			Average	
2	5350.020		34.48						Average	
3	5351.073	8.63	34.48	38.26	35.98	40.83	54.00	-13.17	Average	



802 11ac(HT40

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Test mode:	802.11ac(HT	Frequence	cy(MHz):	527	'0	Peak	Vertical
	Level (dBuV/m)						
120							
110					3		
90					N. H. H. H. L.	<u>m</u>	
70				and the		- <del>\w</del>	
50	1		L. Hard	PARTY .			
50		ng Territor and the state of th	Hatter the				
30							
40							
10 0							
5	100 5120 5	5150	5200			5300	
		Frequ	iency (MHz	)			
Site : d	chamber						
Condition: 3	3m VERTICAL						
	30005						
	5270 Band e						
Note : S	5G WiFi 11A					_	
-	Cable	Ant Preamp		1	Limit	0ver	Demanla
Fre	q Loss Fac	tor Factor	Level	revel	Line	Limit	Remark
MH	z dB d	dB/m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5126.15		4.30 43.67			74.00	-24.91	peak
2 5149.98		4.32 43.64		47.15		-26.85	-
3 * 5270.00	0 8.51 34	4.42 43.52	97.95	97.36	68.20	29.16	peak



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Test mod	le:	8	02.11ac	(HT40	Frequenc	y(MHz):	527	70	Average	Ve	rtical
			-1/45-11	( <b>)</b>							
	12		el (dBuV	/m)							
	11	0									
	c	0									
								r	ון ר		
	7	70 -									
	,	50					harris		have		
		-	+	1 2		and the second second					
	3	30 -									
		10									
		0									
		5100	5120	5150	Frequ	5200 ency (MHz	•		5300		
					Trequ	circy (miriz	,				
Site			mber								
	tion:			CAL							
Job N		800									
Mode Note				d edge 11AC40							
Note		20	Cable		Preamp	Read		Limit	0ver		
	Fr	req				Level				Remark	
-	M	1Hz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		_
1	5137.0	915	8.31	34.31	43.66	40.58	39.54	54.00	-14.46	Average	
2	5149.9		8.33	34.32		40.33	39.34	54.00	-14.66	Average	
3	5270.0	900	8.51	34.42	43.52	86.92	86.33			Average	



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Test mode:	802.11ac(HT40 )	Frequency	v(MHz):	527	70	Peak	Horizontal
	ovol (dBu\//m)						
120	evel (dBuV/m)						
110			_				
90							
70				Manual			
50			the strength of	Addition .			
30							
10							
0							
51	100 5120 5150		5200 ency (MHz	)		5300	
Site : c	hamber						
Condition: 3	m HORIZONTAL						
Job No : 8	0005						
Mode : 5	270 Band edge	e					
Note : 5	G WiFi 11AC4						
_		t Preamp			Limit	0ver	
Fred	q Loss Facto	r Factor	Level	Level	Line	Limit	Remark
MHz	z dB dB/ı	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5107.460						-25.75	-
2 5149.986						-28.85	
3 * 5270.000	8.51 34.4	2 43.52	97.44	96.85	68.20	28.65	peak



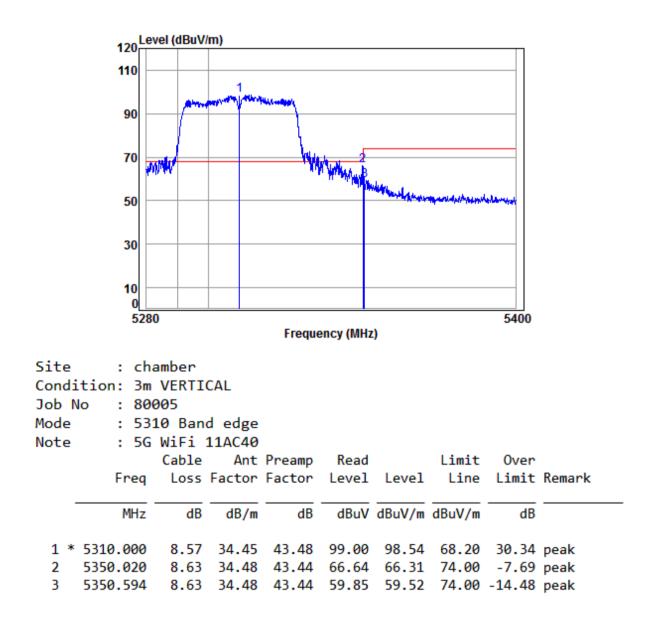
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Test mod	de:	8	302.11ac	:(HT40	Frequenc	y(MHz):	527	70	Average	I	Horizontal
		120 <mark>Le'</mark>	vel (dBuV	/m)							
		110									
		90							-		
		70							+		
							- Aller and				
		50		1 2		and the second second	р				
		30									
		30									
		10									
		0									
		510	0 5120	5150	Frequ	5200 ency (MHz	)		5300		
<b></b>							-				
Site			amber HORIZ	ONTAL							
Job I		: 80		UNIAL							
Mode				d edge							
Note				11AC40							
		_	Cable		Preamp			Limit	0ver	<b>.</b> .	
	I	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5133		8.30							Average	
2	5149		8.33							Average	
3	5270	.000	8.51	34.42	43.52	90.37	89.78			Average	



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Test mode: 802.11ac(HT40)	Frequency(MHz):	5310	Peak	Vertical
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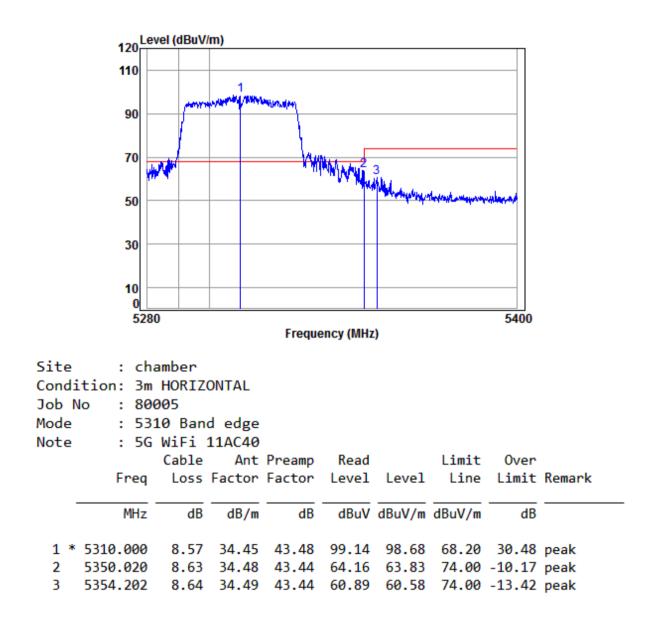
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Test mod	de:	802.11ac(HT4 )	<sup>0</sup> Frequency	y(MHz):	537	10	Average	Vertical
		.evel (dBuV/m)						
	120							
	110							
			1					
	90							
	70							
				*n.				
	50			- Connector	- Ann			
	30							
	10 0							
		80		II			5400	
			Freque	ency (MHz	)			
Site	: c	hamber						
		m VERTICAL						
Job N Mode		0005 210 Band av	las					
Note		310 Band eo G WiFi 11A0	-					
			Ant Preamp	Read		Limit	0ver	
	Fred	Loss Fac	tor Factor	Level	Level	Line	Limit	Remark
	MHz	dB d	B/m dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	8.57 34	.45 43.48	92.16	91.70			Average
2	5350.020			51.72	51.39	54.00	-2.61	Average
3	5351.075	8.63 34	.48 43.44	51.90	51.57	54.00	-2.43	Average



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Test mode: 802.11ac(HT40)	Frequency(MHz):	5310	Peak	Horizontal
---------------------------	-----------------	------	------	------------





2

3

5350.020

5351.075

#### SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

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Test mode:		802.11ac )	(HT40	Frequency	/(MHz):	53 <sup>-</sup>	10	Average	Horizontal	
		ovol (dDu)	/m)							
		evel (dBuV	/ <b>III)</b>							
	110									
	90									
	70									
	50	V		· · · · ·	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
	30									
	10									
	0 52	80						5400		
				Freque	ency (MHz	L)				
Site		namber								
Condition Job No		n HORIZ 0005	ONTAL							
Mode		310 Ban	d edge							
Note		G WiFi	11AC40							
	-	Cable		Preamp			Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limít	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 531	0.000	8.57	34.45	43.48	91.88	91.42			Average	

8.63 34.48 43.44 52.07 51.74 54.00 -2.26 Average

8.63 34.48 43.44 52.23 51.90 54.00 -2.10 Average

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Test mode:	802.11ac(HT40 )	Frequency(I	MHz):	5510	Peak	Vertical
	aval (dDu)//m)					
120	evel (dBuV/m)					
110						
				3	.	
90			<u> </u>	*****		
70					L. Mar	
		1	A HERE AND A HERE AND			
50	and and a second state of the	1				
30						
10						
0_						
54	400 5420	5450 Frequen	cy (MHz)	5500	5540	
		•				
	hamber					
Condition: 3 Job No : 8	m VERTICAL 0005					
	0005 510 Band edg	10				
	G WiFi 11AC					
		nt Preamp	Read	Limit	0ver	
Free	loss Facto	or Factor	Level Le	vel Line	Limit	Remark
			10.11			
MHz	z dB dB,	/m dB	dBnA qBn	V/m dBuV/m	dB	
1 5453.616	5 8.78 34.5	6 43.34	58.82 58	.82 74.00	-15.18	peak
2 5466.333					-5.90	-
3 * 5510.000	8.89 34.0	51 43.28	96.83 97		28.85	-



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Test mod	de:	802.11ac )	HT40	Frequency	y(MHz):	551	10	Average	Vertical
	120	Level (dBuV	//m)						
	110								
	90						2		
	70								
	50								
	30								
	10								
	0 54	400 542	20	5450		5500		5540	
					ency (MHz				
Site		hamber							
	ition: 3		CAL						
Job N		0005	CAL						
Mode		510 Ban	d edge						
Note		G WiFi	-						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Fre	q Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MH:	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.62	2 8.79	34.57	43.33	49.77	49.80	54.00	-4.20	Average
2	5510.00			43.28					Average



802 11ac(HT40

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11ac(H140	Frequency(MH	z): 5	510	Peak	Horizontal
120	Level (dBuV/m)					
110						
				3		
90			potteren	and the second second		
50						
70						
10			HAN WAY		111	
50	and the second	w will any a weather the				
50	A MANAGARA SA					
30						
10 0						
-	400 5420	5450	550	)0	5540	
		Frequency	(MHz)			
Site : c	hamber					
Condition: 3						
	0005	-				
	510 Band edg	le				
	G WiFi 11AC					
			ead	Limit	0ver	
Free	q Loss Facto	or Factor Le	vel Leve	l Line	Limit	Remark
MHz	z dB dB,	/m	BuV dBuV/	m dBuV/m	dB	
1 5457.526	5 8.79 34.5	57 43.33 59	.31 59.3	4 74.00	-14.66	peak
2 5468.992			.34 63.4			•
3 * 5510.000			.67 97.8			•



### SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

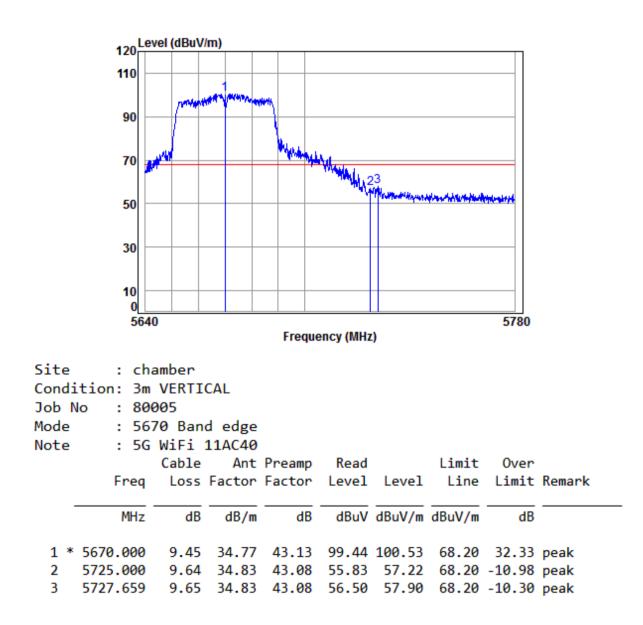
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Test mod	de:	802.11ac )	c(HT40	Frequency	y(MHz):	55	10	Average	Horizontal
			(/ <b>)</b>						
	120	Level (dBuV	//m)						
	110								
	90						2		
	70								
	50								
	30								
	10 0								
	5	400 542	20	5450		5500		5540	
				Freque	ency (MHz	.)			
Site	: 0	hamber							
Condi	ition: 3	m HORIZ	ONTAL						
Job N	lo : 8	80005							
Mode		510 Ban	-						
Note	: 5	G WiFi			_				
	-	Cable		Preamp			Limit		
	Fre	q Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MH	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5459.90	1 8.79	34.57	43.33	50.41	50.44	54.00	-3.56	Average
2	5510.00			43.28					Average



Report No.: HR20188000603 Page: 362 of 391

Test mode:	802.11ac(HT40 )	Frequency(MHz):	5670	Peak	Vertical





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Test mode:	802.11ac(HT40 )	Frequency(MHz):	5670	Peak	Horizontal
	evel (dBuV/m)				
110	1				
90	and the second s	4+4A			
90					
70		WM MANNALA LANA			
	<b>W</b>	The August	3		
50			۲۴۳۹۶۵٬۰۰۰ المعرف بالمعالين الرياض عليه مراد الم	-autolythics	
30					
10					
0					
56	540	Frequency (MHz	)	5780	
Site : c	hamber				
Condition: 3					
	0005				
	670 Band edg				
Note : 5	G WiFi 11AC4			0	
Fred		t Preamp Read r Factor Level	Limit Level Line		۰k
MHz	z dB dB/i	m dB dBuV	dBuV/m dBuV/m	dB	
1 * 5670.000	9.45 34.7	7 43.13 98.63	99.72 68.20	31.52 peak	
2 5725.000			56.92 68.20		
3 5728.923	3 9.66 34.8	3 43.08 54.95	56.36 68.20	-11.84 peak	



Report No.: HR20188000603 Page: 364 of 391

Test mode:	802.11ac )	:(HT40 F	Frequency	(MHz):	57	55	Peak	Vertical
	Lovel (dPu)	(m)						
1	20 Level (dBuV			1				
1	10							
					3	The set with		
	90				["			
						4.1		
	70			2, m 1, 1, 1, 1		m <b>y</b>	the state	
			anter and a fait of the second	and the second sec				
	50	uner all the						
	30							
	10							
	0 5640						5795	
	5040		Freque	ncy (MHz	.)		5795	
Site :	chamber							
Condition:		CAL						
	80005	CAL						
Mode :	5755 Ban	d edge						
Note :	5G WiFi							
_	Cable		Preamp			Limit		
F	req Loss	Factor	Factor	Level	Level	Line	Limit	Kemark
	MHz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5715.	000 9.61	34.82	43.09	62.57	63.91	109.40	-45.49	peak
2 5725.		34.83					-52.46	
3 5755.	000 9.75	34.86	43.05	98.44	100.00	125.20	-25.20	peak



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Test mode:		802.11ac( )	HT40 I	-requency	y(MHz):	57	55	Peak	Horizontal
	14	evel (dBuV/	m)						
	120				- / -				
	110								
						3	-		
	90								
			1		et				
	70				-			MAN WAR	
		من معلمين و يام باران بار	المطار بالعاد بالعاما	and and the second					
	50								
	30								
	30								
	10								
	0								
	564	0		Freque	ency (MHz	0		5795	
				riequi		.1			
Site		amber							
Conditio Job No			ONTAL						
Job No Mode	: 80	55 Band	l edge						
Note		WiFi 1	-	9					
		Cable	Ant	Preamp			Limit		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 571	5.000	9.61	34.82	43.09	60.12	61.46	109.40	-47.94	peak
	5.000	9.64	34.83	43.08		67.76	122.20	-54.44	peak
3 575	5.000	9.75	34.86	43.05	98.09	99.65	125.20	-25.55	peak



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Test mod	de:	802.11ac( )	(HT40	-requency	/(MHz):	579	95	Peak	Vertical
	120	_evel (dBuV/	m)						
	110				- Law	~~~~			
			unan Inner	-		$\sim$			
	90								
				here					
	70	und have a		Where we wanted	1 2				
	50				"Vingu	-	a dout a second	-	
	50								
	30								
	10								
	0	745						5945	
	51	45		Freque	ency (MHz	:)		3343	
Site	: c	hamber							
Condi	ition: 3	m VERTI	CAL						
Job I		0005							
Mode		795 Ban	_						
Note	: 5	G WiFi 1						_	
	[max	Cable		Preamp Factor		Level.		Over Limit	Demonto
	Free	LOSS	Factor	Factor	rever	rever	LINE	LIMIC	кешагк
	MHz	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000		34.90	43.02	98.25	100.01	125.20	-25.19	peak
2	5850.000			42.96				-64.06	
3	5860.000	0 10.10	34.96	42.96	52.36	54.46	109.40	-54.94	peak



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Test mode:	8	02.11ac(HT40	Frequenc	y(MHz):	579	95	Peak	Hor	izontal
	120 Lev 110 -	rel (dBuV/m)							
	70			White Marian	dattain this and the		hy jarvier an		
	10 0								
	5745	5	Frequ	ency (MHz	:)		5945		
Site Conditio Job No Mode Note	: 800 : 579	HORIZONTA 905 95 Band ed WiFi 11AC	ge 40						
	Freq	Cable A Loss Fact						Remark	
	MHz	dB dB	/m dB	dBuV	dBuV/m	dBuV/m	dB		-
		9.88 34.							
		10.07 34. 10.10 34.							



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Test mode:	802.11ac(HT80 )	Frequency	/(MHz):	52	10	Peak	Vertical
1	.evel (dBuV/m)						
120- 110							
110							
90		www.usaningtan	WWW.WAA				
70							
50	www.maranawana		W	a spin water to reach	had a later best and a later and	3	
30							
10							
0	00 5150	5200				5360	
51	00 5150		ency (MHz	)		0000	
Site : c	hamber						
Condition: 3							
	0005 210 Band edg	P					
	G WiFi 11AC						
Enor	Cable An Loss Facto	t Preamp			Limit		Remark
			Level				
MHz	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5148.154						-13.31	
2 * 5210.000 3 5352.276			94.49 53.86			25.50 -20.46	-
5 5552.270	, 0.05 54.4	9 49.44	55.00	55.54	/4.00	-20.40	hear



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Test mod	e:	802.11ac(HT80 )	Frequenc	y(MHz):	52	10	Average	Vertical
		evel (dBuV/m)						
	120 <mark>1</mark>	Level (dBuV/m)						
	110							
	90		2					
			$ h + \bar{\gamma} $					
	70							
	50			L	State of the local sectors in the local sectors ine			
						**************************************	Ť	
	30							
	10 0							
		100 5150	5200				5360	
			Frequ	ency (MHz	)			
Site	: c	hamber						
		m VERTICAL						
Job N		0005						
Mode		210 Band edg						
Note	: 5	G WiFi 11AC		D 1		1.4	0	
	Free		nt Preamp			Limit Line		Remark
		1 2055 1420	in ruccor	Level	Level	CINC	CIMIC	recircle R
-	MHz	z dB dB,	/m dB	dBuV	dBuV/m	dBuV/m	dB	
1	5148.154							Average
2	5210.000							Average
3	5357.069	9 8.64 34.4	49 43.43	45.60	45.30	54.00	-8.70	Average



802 11ac(HT80

# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11ac(H180 )	Frequency	521	10	Peak	Horizontal	
	aval (dDu)//)						
120	L <mark>evel (dBuV/m)</mark>						
110							
90 2 90							
			1				
70						<b></b>	
50 HARDING AND HARDING STATES							
50	++++++++++++++++++++++++++++++++++++++			C. Baraller	and the address of the local sector of the loc	*****	
30							
10 0							
	100 5150	5200				5360	
Frequency (MHz)							
Site : c	hamber						
Condition: 3	m HORIZONTAL						
Job No : 8	0005						
Mode : 5	210 Band edg	e					
Note : 5	G WiFi 11AC	80					
	Cable An	t Preamp	Read		Limit	0ver	
Fre	q Loss Facto	r Factor	Level	Level	Line	Limit	Remark
MH	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5146.87	5 8.32 34.3	2 43.65	59.23	58.22	74.00	-15.78	peak
2 * 5210.00	0 8.42 34.3	7 43.58	93.23	92.44	68.20	24.24	peak
3 5351.74	4 8.63 34.4	9 43.44	53.08	52.76	74.00	-21.24	peak



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Test mo	de:	802.11ac(HT )	Freque	ency(MHz):	521	10	Average	Horizontal
	120	Level (dBuV/m)						
	110							
	90			2				
	70							
	50		mand	- he	Harrison Marken		- 3	
	30							
	10 0							
	51	100 515		0 equency (MHz	,		5360	
				equency (MHz	.)			
Site		hamber	<b>T</b> 4 1					
Job I		m HORIZON 0005	TAL					
Mode		210 Band	edge					
Note	: 5	G WiFi 11						
	Free	Cable	Ant Prea actor Fact	mp Read		Limit	Over Limit	Romank
	Free			or Level	rever	LTHE	LIMIC	
	MH:	z dB	dB/m	dB dBuV	dBuV/m	dBuV/m	dB	
1	5146.363	3 8.32 3	4.32 43.	65 51.28	50.27	54.00	-3.73	Average
2	5210.000	<b>8.42</b> 3	4.37 43.					Average
3	5359.203	1 8.64 3	4.49 43.	43 45.53	45.23	54.00	-8.77	Average

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Test mode:	802.11ac(HT80 )	Frequency	y(MHz):	529	90	Peak	Vertical
120	evel (dBuV/m)						
110							
				2			
90			A MARCHINE	WHICH APPER			
70					╞╾		
	1	NY MARKAN AND AND AND AND AND AND AND AND AND A	end .		Manaha		
50	And and an an an an and an Arad Kath	NV APP 191		_	WWWWWW	* whole	
30				-			
10				-			
0[ 51	100 <b>515</b> 0	5200				5400	
			ency (MHz	)			
Site : c	hamber						
Condition: 3							
	0005						
Mode : 5	290 Band edg	e					
Note : 5	G WiFi 11AC8						
-		t Preamp	Read		Limit		
Fred	q Loss Facto	r Factor	Level	Level	Line	Limit	Remark
MHz	z dB dB/	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5146.267	7 8.32 34.3	2 43.65	53.97	52.96	74.00	-21.04	peak
2 * 5290.000			94.47	93.95			•
3 5350.229	8.63 34.4	8 43.44	57.56	57.23	74.00	-16.77	peak

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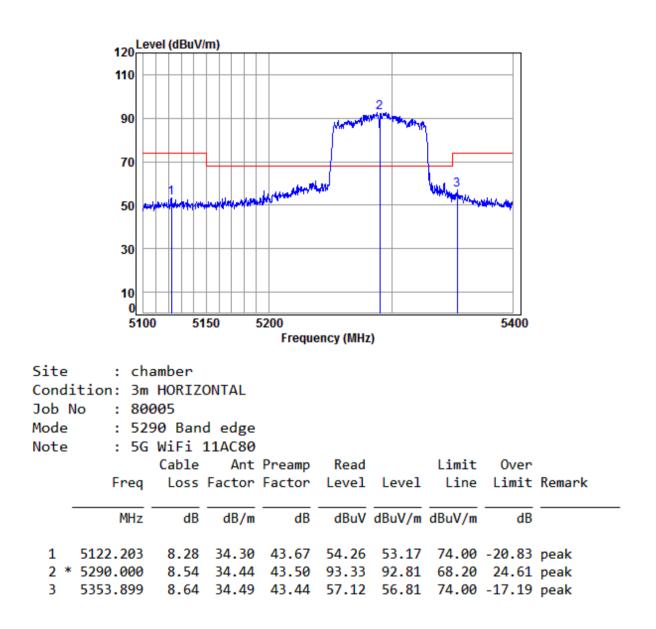
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Test mod	le:	802.11ac )	(HT80	Frequency	y(MHz):	52	90	Average		Vertical
			/ <b>X</b>							
	120	_evel (dBuV	/m)							
	110									
	90				~	2				
	70									
	50				and		han 3			
	30									
	10 0									
	51	100 51	150	5200 Freque	ency (MHz	)		5400		
Site	: c	hamber								
Condi	tion: 3	m VERTI	CAL							
Job N		0005								
Mode		290 Ban								
Note	: 5	G WiFi		D				0		
	Free	Cable		Preamp Factor		Lovel	Limit Line		Remark	
	rret	1 1055	actor	actor.	Level	Level	LTHE	CINIT	Nemar K	
	MHz	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5149.209				46.56	45.56			Average	
2	5290.000								Average	
3	5355.124	4 8.64	34.49	43.44	51.02	50.71	54.00	-3.29	Average	2



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Test mode:	802.11ac(HT80 )	Frequency(MHz):	5290	Peak	Horizontal
------------	--------------------	-----------------	------	------	------------





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Test mo	de:	802.11ac )	(HT80	Frequency	y(MHz):	529	90	Average	ł	Horizontal
	120	evel (dBuV	/m)							
	110									
	90			_		2				
							}			
	70									
	50					_				
	30									
	10 0			_						
	-	100 51	150	5200			I	5400		
				Freque	ency (MHz	)				
Site	: c	hamber								
Cond	ition: 3	m HORIZ	ONTAL							
Job I		0005								
Mode		290 Ban	-							
Note	: 5	G WiFi Cable		Preamp	Read		Limit	0ver		
	Free			Factor					Remark	
		·								
	MHz	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	5138.625	5 8.31	34.31	43.65	46.92	45.89	54.00	-8.11	Average	
2	5290.000			43.50					Average	
3	5350.535	5 8.63	34.48	43.44	50.53	50.20	54.00	-3.80	Average	



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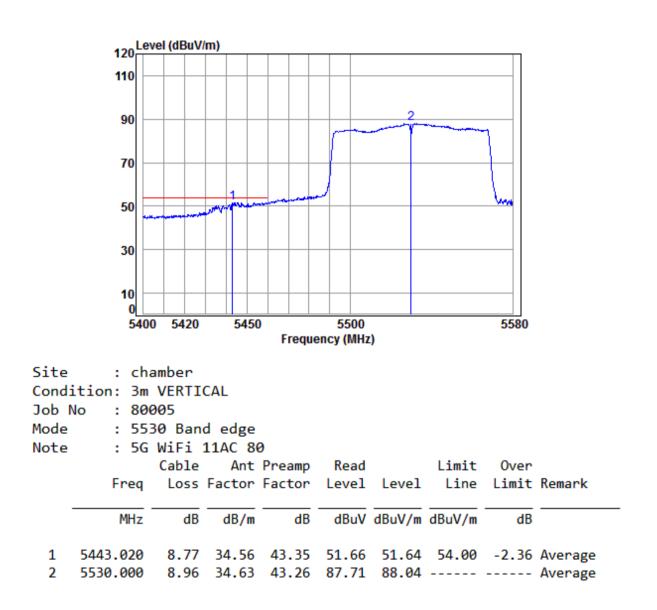
Test mode:	802.11ac(HT80 )	Frequency(I	MHz):	553	30	Peak	Vertical
	_evel (dBuV/m)						
120							
110							
				3 	helen and a second s		
90			- And and and	Malana and And	****		
70		way the second					
50	- manual and	man and a second				M	
00							
30							
50							
10							
0							
54	100 5420 54	50 Frequen	5500 icy (MHz)	)		5580	
		•		-			
Site : c Condition: 3	hamber m VERTICAL						
	0005						
	530 Band edge	e					
	G WiFi 11AC	80					
-		t Preamp			Limit	0ver	
Fred	q Loss Factor	r Factor	Level	Level	Line	Limit	Remark
MHz	z dB dB/r	m dB	dBuV	dBuV/m	dBuV/m	dB	
1 5458.749	8.79 34.5	7 43.33	58.85	58.88	74.00	-15.12	peak
2 5469.319	8.81 34.5	8 43.32	60.10	60.17	68.20	-8.03	peak
3 * 5530.000	8.96 34.6	3 43.26	94.32	94.65	68.20	26.45	peak

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Test mode: 802.11ac(HT80	Frequency(MHz):	5530	Average	Vertical
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Test mode:	802.11ac(HT80 )	Frequency(N	/Hz):	5530	Peak	Horizontal
	.evel (dBuV/m)					
120						
110						
				3		
90			mount	and the second se		
70						
10		2				
50	manager with the states	en al man and a star manufact				
30						
10						
0_ 54	400 5420 54	50	5500		5580	
		Frequence				
Site : c	hamber					
Condition: 3						
	0005					
	530 Band edg					
Note : 5	G WiFi 11AC Cable An		Read	Limit	0ver	
Fred						Remark
MHz	z dB dB/	m dB	dBuV dBu	V/m dBuV/m	dB	
1 5445.162	2 8.77 34.5	6 43.35 5	58.71 58	.69 74.00	-15.31	peak
2 5467.706	5 8.80 34.5	8 43.32 5	59.75 59	.81 68.20	-8.39	peak
3 * 5530.000	8.96 34.6	3 43.26 9	93.25 93	.58 68.20	25.38	peak



#### SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

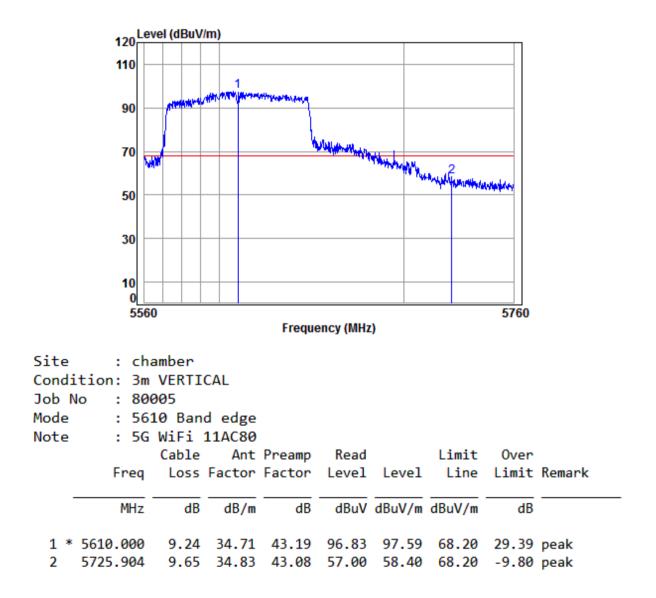
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Test mo	ode:	802.11ac )	(HT80	Frequency	y(MHz):	553	30	Average	Hori	zontal
			i				i			
	120	Level (dBuV	/m)							
	110									
	90					2				
						-		ח וו		
	70							+		
			1							
	50							- 146.4		
	30									
	10									
	5	400 5420	5450		5500			5580		
				Freque	ency (MHz	.)				
Site		hamber								
	ition: 3		ONTAL							
Job Mode		0005 530 Ban	d odgo							
Note		G WiFi	-	a						
	• •	Cable		Preamp	Read		Limit	0ver		
	Fre	q Loss							Remark	
	МН	z dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		-
1	5443.73	4 8.77	34.56	43.35	51.80	51.78	54.00	-2.22	Average	
2	5530.00	0 8.96	34.63	43.26	87.08	87.41			Average	



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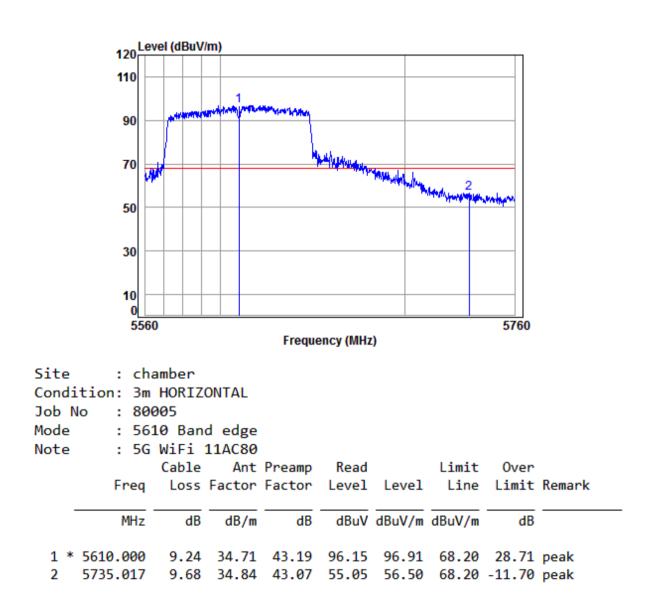
Test mode:	802.11ac(HT80 )	Frequency(MHz):	5610	Peak	Vertical
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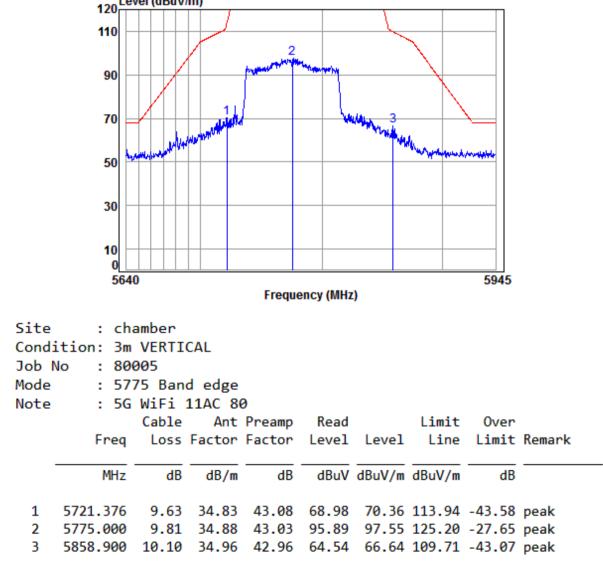
Test mode:	802.11ac(HT80 )	Frequency(MHz):	5610	Peak	Horizontal
------------	--------------------	-----------------	------	------	------------





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Test mode:	802.11ac(HT80 )	Frequency(MHz):	5775	Peak	Vertical
	evel (dRuV/m)				



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# SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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5945

Test mode:	802.11ac(HT80 )	Frequency(MHz):	5775	Peak	Horizontal
	120 Level (dBuV/m)				
	110	2			

Site : chamber Condition: 3m HORIZONTAL Job No : 80005									
	: 57		anha h						
Note	: 5G								
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5724.088	9.64	34.83	43.08	66.33	67.72	120.12	-52.40	peak
2	5775.000	9.81	34.88	43.03	95.46	97.12	125.20	-28.08	peak
3	5850.883	10.07	34.96	42.96	63.72	65.79	120.19	-54.40	peak

Frequency (MHz)



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Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor All modes have been tested, but only the worst case data displayed in this report.

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#### 4.9 Frequencies Stability

#### 4.9.1 Frequency Error vs. Voltage:

Test Canditions	Measured Frequency (MHz)			
Test Conditions	5180	5825		
V nom(V)	5180.006369	5825.003835		
V max(V)	5180.008305	5825.011822		
V min(V)	5180.014837	5825.021515		
Max. Deviation Frequency	0.014837	0.021515		
Max. Frequency Error (ppm)	2.864364	3.693502		

#### 4.9.2 Frequency Error vs. Temperature:

Test Conditions(°C)	Measured Frequency (MHz)			
Test Conditions(°C)	5180	5825		
-5	5180.001232	5825.003630		
5	5180.003421	5825.008188		
15	5180.007077	5825.008784		
25	5180.012421	5825.009391		
35	5180.015060	5825.014858		
45	5180.018072	5825.023771		
50	5180.026833	5825.033592		
Max. Deviation Frequency	0.026833	0.033592		
Max. Frequency Error (ppm)	5.180064	5.766816		

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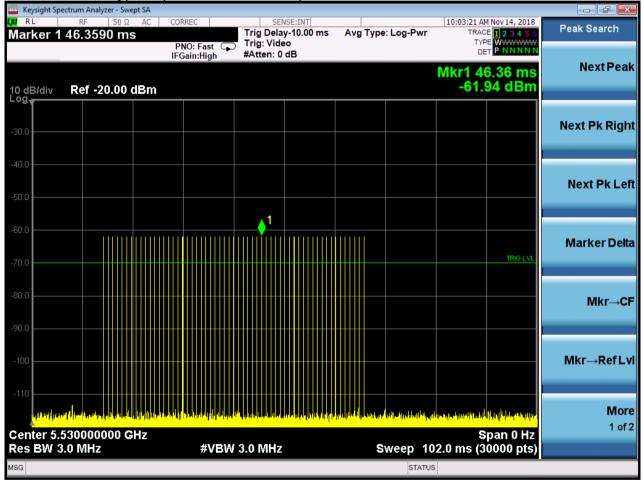
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#### 4.10 (DFS: Channel Move Time; DFS: Channel Closing Transmission Time)

#### 4.10.1 Test plots

4.10.1.1 Radar Waveform Calibration Result

Radar Type 0 (40MHz / 5530MHz)



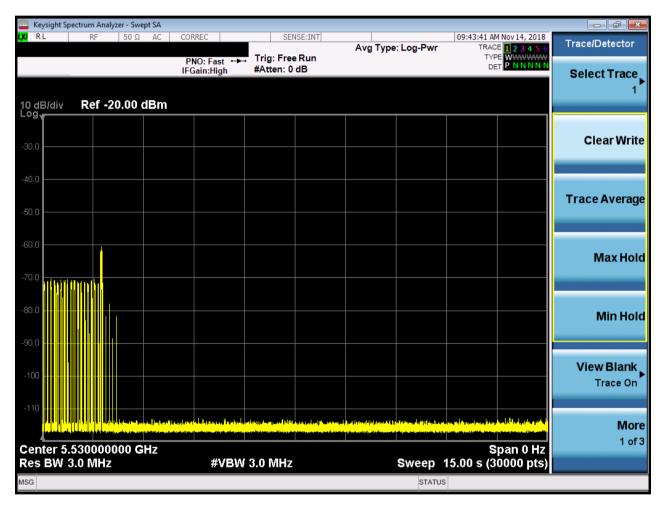


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4.10.2 T	est Data:			
BW/Channel	Test Item	Test Result	Limit	Results
80MHz / 5530MHz	Channel Move Time	0.42s	<10s	Pass
	Channel Closing Transmission Time	1.5ms	<60ms	Pass

4.10.2.1 Test plots

#### 4.10.2.1.1 Test Bandwidth/Channel= 80MHz / 5530MHz





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#### 4.11 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.75dB
2	RF power density, conducted	±2.84dB
3	Spurious emissions, conducted	±0.75dB
4	Radiated Spurious emission test	±4.5dB (30MHz-1GHz) ±4.8dB (1GHz-25GHz)
5	Conduct emission test	±3.12 dB(9KHz- 30MHz)
6	Temperature test	±1°C
7	Humidity test	±3%
8	DC and low frequency voltages	±0.5%



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#### 4.12 Equipment List

Conducted Emission							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)		
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2017/5/10	2020/5/9		
LISN	Rohde & Schwarz	ENV216	SEM007-01	2018/9/2	2019/9/2		
LISN	ETS-LINDGREN	Feb-16	SEM007-02	2018/4/2	2019/4/1		
Measurement Software	AUDIX	e3 V5.4.1221d	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM024-01	2018/7/12	2019/7/11		
8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	EMC0120	2018/2/14	2019/2/13		
4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	EMC0121	2018/2/14	2019/2/13		
2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	EMC0122	2018/2/14	2019/2/13		
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-02	2018/4/2	2019/4/1		
	RF con	ducted test					
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)		
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2018/9/2	2019/9/2		
Signal Analyzer	Rohde & Schwarz	FSV	W025-05	2018/3/13	2019/3/12		
Coaxial Cable	SGS	N/A	SEM031-01	2018/7/12	2019/7/11		
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A		
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2018/9/2	2019/9/2		
Temperature Chamber	GIANT FORCE	ICT-150-40-CP-AR	W027-03	2017/12/4	2018/12/4		
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2018/9/2	2019/9/2		

RE in Chamber							
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)		
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2017/8/5	2020/8/4		
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A		
Coaxial Cable	SGS	N/A	SEM025-01	2018/7/12	2019/7/11		
MXE EMI Receiver (20Hz-8.4GHz)	Agilent Technologies	N9038A	SEM004-05	2018/9/2	2019/9/2		
BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEM003-01	2017/6/27	2020/6/26		
Pre-amplifier (0.1-1.3GHz)	Agilent Technologies	8447D	SEM005-01	2018/4/2	2019/4/1		

RE in Chamber								
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)			
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2018/3/31	2021/3/30			
EMI Test Receiver (9k-7GHz)	Rohde & Schwarz	ESR	SEM004-03	2018/4/2	2019/4/1			
Trilog-Broadband Antenna (25M-2GHz)	Schwarzbeck	VULB9168	SEM003-18	2016/6/29	2019/6/28			
Pre-amplifier (9k-1GHz)	Sonoma Instrument Co	310N	SEM005-03	2018/4/13	2019/4/12			
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2017/8/22	2020/8/21			
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM029-01	2018/7/12	2019/7/11			
	RE in	Chamber	-	-				
Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. Date (yyyy-mm-dd)	Cal. Due date (yyyy-mm-dd)			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018/3/13	2021/3/12			
Spectrum Analyzer (20Hz-43GHz)	Rohde & Schwarz	FSU43	SEM004-08	2018/4/2	2019/4/1			
BiConiLog Antenna (26-3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017/6/27	2020/6/26			
Horn Antenna (800MHz-18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018/413	2021/412			
Horn Antenna (15-40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017/10/17	2020/10/16			
Amplifier(0.1-1300MHz)	HP	8447D	SEM005-02	2018/9/2	2019/9/2			
Low Noise Amplifier (100MHz-18GHz)	Black Diamond Series	BDLNA-0118-352810	SEM005-05	2018/9/2	2019/9/2			

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PAP-0126

PAP-2640-50

EMC2063

SEM005-08

2017/11/20

2018/4/2

2018/11/19

2019/4/1

**Compliance Directions** 

Systems Inc. Compliance Directions

Systems Inc.

Pre-Amplifier(0.1-26.5GHz)

Pre-amplifier(26-40GHz)



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#### 5 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for HR201880006.

The End

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