



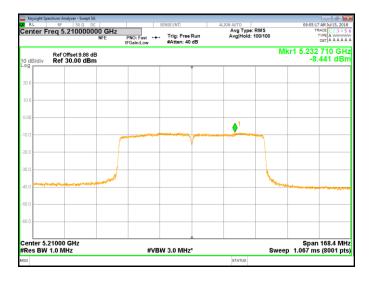
5795MHz





802.11ac80 Mode

5210MHz



5755MHz





6.5.2. 2TX MODE

Mada	Channel	Antonno	PSD)	Lingit
Mode	Channel	Antenna	Single	Total	– Limit
	5180	В	-8.136	-4.95	8.5
	5160	С	-7.78	-4.95	8.5
	5200	В	-7.34	-4.46	8.5
	5200	С	-7.614	-4.40	8.5
	5240	В	-7.684	-4.75	8.5
а	5240	С	-7.841	-4.75	8.5
4	5745	В	5.055	7.95	21.5
	5745	С	4.815	1.55	21.5
	5785	В	3.98	7.54	21.5
	5705	С	5.016	7.54	21.5
	5825	В	3.594	7.76	21.5
	5025	С	5.668	1.10	21.5
	5180	В	-8.188	-5.05	8.5
	5100	С	-7.927	-3.05	8.5
	5200	В	-7.807	-4.77	8.5
	5200	С	-7.753	-4.77	8.5
	5240	В	-7.816	-5.04	8.5
n20	5240	С	-8.296	-5.04	8.5
1120	5745	В	5.235	8.15	21.5
	5745	С	5.032	0.15	21.5
	5785	В	3.641	6.99	21.5
	5765	С	4.298	0.99	21.5
	5825	В	3.364	7.44	21.5
	5025	С	5.293	7.44	21.5
	5180	В	-8.265	-5.03	8.5
	5160	С	-7.818	-5.05	8.5
	5000	В	-7.513	4.50	8.5
	5200	С	-7.701	-4.59	8.5
ac20	5040	В	-7.741	E 00	8.5
	5240	С	-7.818	-5.03	8.5
	F7 4 F	В	4.659	7.00	21.5
	5745	С	5.155	7.92	21.5
	5785	В	3.71	7.12	21.5



		С	4.469		21.5
	5925	В	3.954	7 07	21.5
	5825 -	С	5.619	7.87	21.5
	5190	В	-10.925	-7.8	8.5
	5130	С	-10.699	7.0	8.5
	5220	В	-11.003	7.01	8.5
m 40	5230 -	С	-10.834	-7.91	8.5
n40		В	0.948	2.00	21.5
	5755 -	С	0.998	3.98	21.5
	5705	В	-0.384	3.12	21.5
	5795 -	С	0.551	3.12	21.5
	5190	В	-10.37	-7.22	8.5
	5190	С	-10.093	-1.22	8.5
	5230 -	В	-10.17	-7.39	8.5
10	5230	С	-10.636	-7.39	8.5
ac40		В	1.129	4.40	21.5
	5755 -	С	1.093	4.12	21.5
	5705	В	-0.185	2.04	21.5
	5795 -	С	0.61	3.24	21.5
	5210	В	-13.441	10.16	8.5
AC80	5210 -	С	-12.918	-10.16	8.5
ACOU	5775	В	-3.364	-0.67	21.5
	5115	С	-4.033	-0.07	21.5

Note: All the antenna ports had been tested, but only the worst data recorded in the report.

TEST PLOT FOR ANTENNA B AND C

802.11a Mode

5180MHz



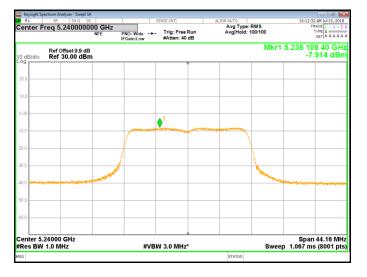
	ectrum Analyzer - Swept SA								
RL	RF 50 Ω DC Freq 5.18000000			SENSE:II	π]	ALIGN AUTO Avg Type:	DMS		4 AM Jul 15, 2018
enter F	req 5.1800000	NFE	PNO: Wide IFGain:Low		: Free Run en: 40 dB	Avg Hold:	100/100		DET A A A A A
0 dB/div	Ref Offset 10.17 dE Ref 30.00 dBm	,					Mk	r1 5.185 -8.	286 GH 020 dBn
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	18000 GHz		#	VBW 3.0	MHz*		Sweep	Span 1.067 m	42.12 MH s (8001 pts
sa						STATUS	Sweep		





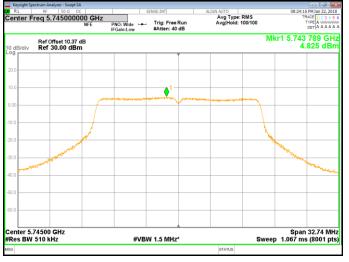
	ectrum Analyzer - Swept SA						- 7
RL	RF 50 Ω DC		ENSE:INT	ALIGN AUTO			4 Jul 15, 2018
Center F	req 5.200000000 GHz	PNO: Wide	Trig: Free Run #Atten: 40 dB	Avg Type: RMS Avg Hold: 100/1	00	TYF DB	E 1 2 3 4 5 E A WWWW T A A A A A
0 dB/div	Ref Offset 10.17 dB Ref 30.00 dBm				Mki	1 5.196 2 -7.8	92 GH 64 dBr
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	20000 GHz 1.0 MHz	#VB)	N 3.0 MHz*		Sween	Span 4 1.067 ms (2.62 MH
sa		#10		STATUS	encep		ooo i pie





RF 50 Ω er Freq 5.240000		_	30	NSE:INT	M	IGN AUTO Avg Type:	RMS	10:15:2 T	0 AM Jul 15
61 1160 5.240000	NFE	PNO: Fast IFGain:Low	•	Trig: Free Ru #Atten: 40 dE		Avg Hold: 1	00/100		DET A A
Ref Offset 9.88 div Ref 30.00 di							Mkr1	5.242 77	0 66 .091 (
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er 5.24000 GHz BW 1.0 MHz				3.0 MHz*			1	Spar p 1.067 m	n 44.96





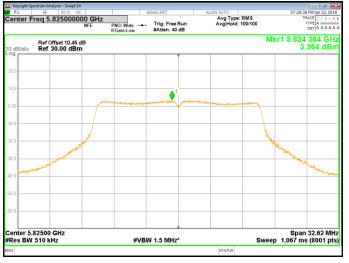
	pectrum Analyzer - Swept S							00
Center F	RF 50 Ω D Freq 5.7450000			SENSE:INT	ALIGN AUTO Avg Type:	RMS	TF	2 PM Jan 22, 2018 RACE 1 2 3 4 5 6
		NFE	PNO: Wide ++ IFGain:Low	. Trig: Free Run #Atten: 40 dB	Avg Hold:	100/100		DET A A A A A A
10 dB/div	Ref Offset 10.29 Ref 30.00 dBr					Mkr1	5.746 19 4.	9 52 GHz 565 dBm
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Center 5. #Res BW	.74500 GHz 510 kHz		#VB	W 1.5 MHz*		Sweep	Span 1.067 ms	32.64 MHz s (8001 pts)
MSG					STATUS			





	pectrum Analyzer - Swept S							
Center F	RF 50 Ω D Freq 5.7850000			SENSE:INT	ALIGN AUTO Avg Ty	pe: RMS	TF	8 PM Jan 22, 2018 RACE 1 2 3 4 5 6
		NFE	PNO: Wide ++ IFGain:Low	Trig: Free Rur #Atten: 40 dB	Avg Ho	d: 100/100		DET A A A A A A
10 dB/div	Ref Offset 10.29 Ref 30.00 dBr					Mk	tr1 5.782 4.	913 GHz 776 dBm
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-60.0								
Center 5. #Res BW	.78500 GHz 510 kHz		#VE	3W 1.5 MHz*		Sweep	Span 1.067 m	31.86 MHz s (8001 pts)
MSG					STATUS			





ysight Sp	ectrum Analyzer - Swe RF 50 Ω			SENSE:INT	ALIGN AUTO		07-21-21	5 PM Jan 22, 2
	req 5.82500		_	SENSE:INT	ALIGN AUTO Avg Type: RM	c	07:31:2	5 PM Jan 22, 2 RACE 1 2 3 4
ler F	red 5.82500	NFE	PNO: Wide	Trig: Free Run	Avg Hold: 100	100		TYPE & WAR
			IFGain:Low	#Atten: 40 dB	-			DET A A A
	Ref Offset 10.					Mk	r1 5.828	656 G 438 dl
3/div	Ref 30.00 d	вm						400 0
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<u> </u>								
ter 5	82500 GHz						Snan	32.68 N
	510 kHz		#V	BW 1.5 MHz*		Sweep	1.067 m	52.08 N
					STATUS			



802.11 n20 Mode

5180MHz



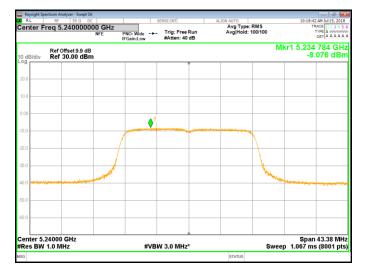
RL RF 50 Ω DC enter Freq 5.180000000 GH	SENSE:INT	ALIGN AUTO Avg Type	RMS	09:30:15 AM Jul 15, 2018 TRACE 1 2 3 4 5
NFE	PNO: Fast Trig: Fre IFGain:Low #Atten: 4		100/100	DET A A A A A
Ref Offset 10.17 dB dB/div Ref 30.00 dBm			Mkr	1 5.186 930 GH -8.187 dBr
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enter 5.18000 GHz Res BW 1.0 MHz	#VBW 3.0 MH	<u> </u>	2	Span 44.60 MH 1.067 ms (8001 pt





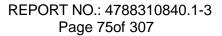
Ref Offset 10.17 dB Mrt State Mark Mark </th <th>Keysight Spectrum Analyzer - Swep</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>- 8 💌</th>	Keysight Spectrum Analyzer - Swep							- 8 💌
10 dBld/v Ref 30.00 dBm 		NFE PN	O: Fast	Trig: Free Run	Avg Type:	RMS 100/100	TRAC	E123456
20 <	10 dB/div Ref 30.00 dl					Mk	r1 5.198 3 -8.0	843 GHz 03 dBm
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40 40<	-20.0							
00	-30.0	- A Contraction				Malastra		
Content Span 44.62 MHz Center 5.20000 GHz Span 44.62 MHz #Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.067 ms (8001 pts)								-angenetiss
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.067 ms (8001 pts)	-60.0							
#Res BW 1.0 MHz #VBW 3.0 MHz* Sweep 1.067 ms (8001 pts)	Center 5.20000 GHz						Span 4	4.62 MHz
	#Res BW 1.0 MHz		#VBW	3.0 MHz*	077 A 371 40	Sweep	1.067 ms (8001 pts)



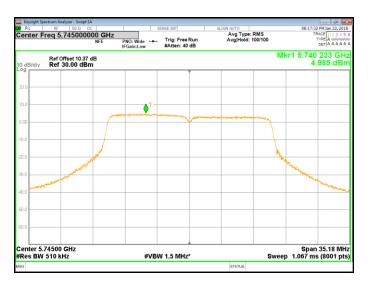


Keysight Sp	ectrum Analyzer - Swept Si RF 50 Ω D			SENSE:INT	AL	JGN AUTO		10:21:30	AM Jul 15. 2018
Center F	req 5.2400000	NFE	PNO: Wide	Trig: Free R #Atten: 40 d		Avg Type: Avg Hold: 1	RMS 00/100	TR	ACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A
10 dB/div	Ref Offset 9.88 d Ref 30.00 dBr						Mk	r1 5.242 -8.	528 GHz 546 dBm
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	24000 GHz 1.0 MHz		#V	BW 3.0 MHz*			Sweep	Span 1.067 ms	41.96 MH
ASG						STATUS			

5745MHz







	ectrum Analyzer - Swep								- 6
RL	RF 50 Ω			SENSE:INT		ALIGN AUTO Avg Type: F		08:20:20	0 PM Jan 22, 20
enter F	req 5.745000	NFE	PNO: Wide ←	Tria: Free	Run	Avg Type: H Avg/Hold: 10	00/100		TYPE A WWW
		NPE	IFGain:Low	#Atten: 4		, training to the second			DET A A A A
							MAL	r1 5.742	754 CL
	Ref Offset 10.2	9 dB					IVIK		782 dB
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	74500 GHz							Span	34.48 M
tes BW	510 kHz		#V	'BW 1.5 MH	Z*		Sweep	1.067 m	s (8001 p
3						STATUS			

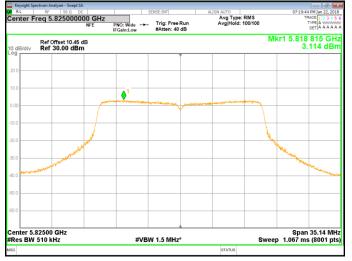


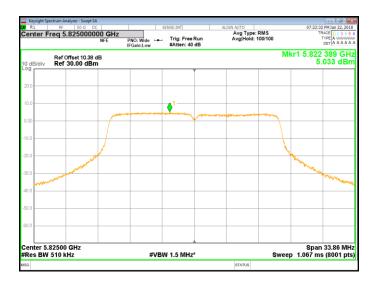


RL	RF 50 Ω			SENSE:INT		ALIGN AUTO		07:53:3	4 PM Jan 22, 2
nter F	req 5.785000	NFE	PNO: Wide IFGain:Low		Run dB	Avg Type: F Avg Hold: 1	00/100		RACE 1 2 3 4 TYPE A WWW DET A A A A
dB/div	Ref Offset 10.2 Ref 30.00 de						Mk	r1 5.791 4	264 G .038 dE
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	78500 GHz 510 kHz		#	VBW 1.5 MHz	*		Sweep	Spar 1.067 m	n 33.32 M s (8001 p
			"			STATUS	211000		

UL

5825MHz







802.11n40 Mode

5190MHz

Keysight Spectrum Analyzer - Swept S Keysight Spectrum Analyzer - S	SA DC		SENSE:INT	1	IGN AUTO		10.10.1	AM Jul 15, 2018
Center Freq 5.1900000	NFE	PNO: Fast		Run	Avg Type: Avg Hold:	RMS 100/100	TF	TYPE A WWWWW DET A A A A A A
Ref Offset 10.21				,		M	(r1 5.204 -11.	625 GHz 405 dBm
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enter 5.19000 GHz Res BW 1.0 MHz		#VB	W 3.0 MHz			Sweep	Span 0 1.067 ms	129.0 MH: s (8001 pts
sG					STATUS			

	n Analyzer - Swept SA					- 4
	RF 50 Ω DC		ENSE:INT	ALIGN AUTO	_	10:50:58 AM Jul 15, 2018
enter Freq	5.19000000 GHz NFE	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 40 dB	Avg Type: RM Avg Hold: 100	100	TRACE 1 2 3 4 5 TYPE A WWWW DET A A A A A
	ef Offset 10.17 dB ef 30.00 dBm				Mki	1 5.194 636 GH -11.249 dBr
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enter 5.1900 Res BW 1.0		#VB	N 3.0 MHz*		Sween	Span 128.3 MH 1.067 ms (8001 pt
sa		# * D		STATUS	encep	

U

5230MHz

nter Freq 5.230000	NFE	PNO: Fast	. Trig: Free #Atten: 40		Avg Type: Avg Hold: 1	00/100		TYPE A WWWW DET A A A A A
Ref Offset 9.9 d B/div Ref 30.00 dB						Mk	r1 5.239 -11	939 GH .483 dBr
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nter 5.23000 GHz							Spar	1 93.00 MH
es BW 1.0 MHz		#VE	3W 3.0 MHz	*	STATUS	Sweep	1.067 m	s (8001 pt

Keysight Spe	RF 50 Ω D			SENSE:INT		LIGN AUTO		11.14.4	AM Jul 15, 2018
	req 5.2300000		_	SENSE:IN1	A	Avg Type:	RMS	11:14:4/ TR	AM JUI 15, 2018
enter F	red 5.2300000	NFE	PNO: Fast • IFGain:Low	 Trig: Free #Atten: 40 	Run dB	Avg Hold: 1	00/100		DET A A A A A
0 dB/div	Ref Offset 9.88 d Ref 30.00 dBn				_		Mk	r1 5.235 -11.	072 GH 364 dBr
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	23000 GHz 1.0 MHz		#\	/BW/ 3.0 MHz			Sween	Span 1 067 ms	125.2 MH
Res BW	1.0 MHz		#V	BW 3.0 MHz	*	STATUS	Sweep	1.067 ms	s (8001 pts

UL

5755MHz



RL		DC		SENSE:INT	ALIGN AUTO		08:14:06 AM Jan 23	
enter F	req 5.755000	NFE	PNO: Fast	Trig: Free Run #Atten: 40 dB	Avg Type: Avg Hold:	RMS 100/100	TYPE A W	3 4 5 A A A
0 dB/div	Ref Offset 10.29 Ref 30.00 dE					Mki	r1 5.745 383 0 0.518 d	
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	75500 GHz					•	Span 70.58	мн
Res BW	510 kHz		#VB	W 1.5 MHz*	STATUS	Sweep	1.067 ms (8001	pt









802.11 ac20 Mode

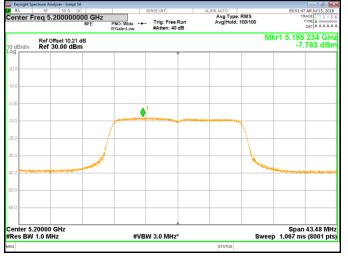
51<u>80MHz</u>

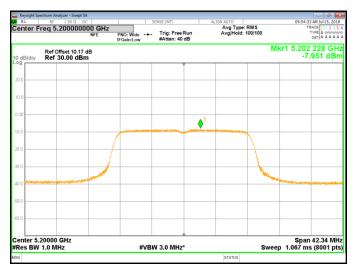


	n Analyzer - Swept SA RF 50 Ω DC		SENSE:INT	ALIGN AUTO		09:43:48 AM Jul 15, 2018
	5.180000000 G	PNO: Fast IFGain:Low		Avg Type: R Avg Hold: 10	0/100	TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A
	ef Offset 10.17 dB ef 30.00 dBm				Mkr1 8	.186 271 02 GHz -8.078 dBm
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Center 5.180 Res BW 1.0		#	VBW 3.0 MHz*		Sweep	Span 45.36 MH 1.067 ms (8001 pts
ASG				STATUS		(0000 pro)

UL

5200MHz





U

5240MHz



	DC		SENSE:INT	ALIGN AUTO	/pe: RMS	TRACE 1	2345
0.240000	NFE	PNO: Wide H IFGain:Low			old: 100/100	TYPE A	AAAA
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	and a start of the				The second		
		_					
1000 GHz .0 MHz			BW 3.0 MHz			Span 43.2 1.067 ms (80	22 MH
	Ref Offset 3 88 Ref 30.00 dE	eq 5.24000000 GHz NFE Ref Offset 9.86 dB Ref 30.00 dBm	eq 5.240000000 GHz NFE Floc Wide - From the second sec	Ref 30.00 GHz	aq 5.24000000 GHz Avg T NFE Problem Problem Trig: Free Run Avg T Avg T Ref Offset 9.88 dB Ref Offset 9.88 dB Image: State of State 1.88 dB Image: State 1.88 dB Image: State 1.88 dB	aq 5.24000000 GHz Avg Type: RMS Avg Type: RMS	Arg Type: RMS Arg Type: RMS Trace NFE PBOWde Trig: Free Run Arg Type: RMS Trig: Comparison Ref Offset 3.88 dB Mkr1 5.238 374





RL	rum Analyzer - Swept S RF 50 Ω D	IC		SENSE:INT	4	LIGN AUTO			8 PM Jan 22, 201
enter Fre	eq 5.7450000	NFE	PNO: Wide • IFGain:Low	+. Trig: Free # #Atten: 40	Run dB	Avg Type: Avg Hold: 1	RMS 00/100	т	RACE 1 2 3 4 5 TYPE A WWWW DET A A A A A
	Ref Offset 10.29 Ref 30.00 dBr						Mk	(r1 5.738 4	119 GH .905 dBi
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enter 5.74 Res BW 5			#\	/BW 1.5 MHz'	v		Sween	Spar 0 1.067 m	n 35.06 MI s (8001 p)

UL

5785MHz



enter Fi	RF 50 Ω req 5.785000	DC DOOD GHZ	PNO: Wide	SENSE:INT	ALIGN AUTO Avg Type: Avg Hold:	RMS 100/100	TR	PM Jan 22, 201 RACE 1 2 3 4 5 TYPE A WWWW DET A A A A A
			IFGain:Low	#Atten: 40 dB				
) dB/div	Ref Offset 10.2 Ref 30.00 di					MK	r1 5.789 4.	209 dB
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	78500 GHz 510 kHz			BW 1.5 MHz*		Purcon	Span 1.067 ms	34.34 M

UL

5825MHz



NFE PRO: Wilds - Trg: Free Run Avg Hold: 100100 THE AVA IFGaint.ow #Atten: 40 dB Mkr1 5.821 218 G Ref Offset 10.38 dB Mkr1 5.821 218 G	RL	ectrum Analyzer - Swep RF 50 Ω Teq 5.825000	DC		SE	NSE:INT	ALIGN AUTO Avg Type	RMS	07:14	4:26 PM Jan 22, 20 TRACE 1 2 3 4
1 1 1 1 1 1 1 1 <th></th> <th></th> <th>NFE</th> <th>PNO: Wide + IFGain:Low</th> <th>•</th> <th>Trig: Free Run #Atten: 40 dB</th> <th>Avg Hold:</th> <th></th> <th></th> <th>DET A A A A</th>			NFE	PNO: Wide + IFGain:Low	•	Trig: Free Run #Atten: 40 dB	Avg Hold:			DET A A A A
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tes BW 510 kHz #VBW 1.5 MHz* Sweep 1.067 ms (8001 pi	enter 5	82500 GHz							Sn	an 34 54 Mi
				#V	/BW	1.5 MHz*		Swe	ep 1.067	ms (8001 p



802.11ac40 Mode

5190MHz



RL	RF 50 Ω DC			SENSE:INT	AL	IGN AUTO			M Jul 15, 201
enter F	req 5.19000000	FE PI	NO: Fast Gain:Low	Trig: Free F #Atten: 40	Run dB	Avg Type: Avg Hold:	100/100	D	ET A A A A A
dB/div	Ref Offset 10.17 dB Ref 30.00 dBm						Mk	1 5.198 (-10.6	090 GH 33 dB
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	19000 GHz 1.0 MHz		#\/B)	N 3.0 MHz			Sween	Span 1 1.067 ms	10.4 MH





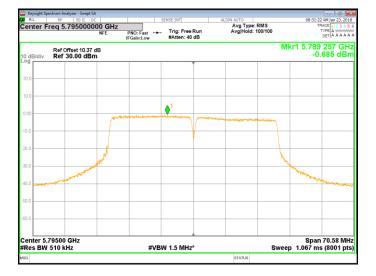
	ectrum Analyzer - Swept SA								
Center F	RF 50 Ω DC req 5.23000000			SENSE:INT	AL	IGN AUTO Avg Type:	RMS	TR	AM Jul 15, 2018
Contor I	100 5.2500000	NFE F	NO: Fast	Trig: Free #Atten: 40		Avg Hold: 1	00/100		DET A A A A A A
10 dB/div	Ref Offset 9.88 dE Ref 30.00 dBm						M	(r1 5.242 -11.	549 GHz 146 dBm
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Center 5. #Res BW	23000 GHz 1.0 MHz		#VB	W 3.0 MHz			Swee	Span 0 1.067 ms	129.5 MHz (8001 pts)
MSG						STATUS			





Keysight Spect	rum Analyzer - Swept SA								
	RF 50 Ω DC q 5.75500000	0 GHz	PNO: Fast	SENSE:INT	Run	AVg Type: Avg Hold: 1	RMS	TF	AM Jan 23, 2018 ACE 1 2 3 4 5 6 TYPE A WWWWW
		1	FGain:Low	#Atten: 40	dB				DET A A A A A A
	Ref Offset 10.29 d Ref 30.00 dBm						M		471 GHz 613 dBm
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-60.0									
Center 5.75 #Res BW 5				W 1.5 MHz*			0	Span	70.14 MHz (8001 pts)
#Res BW 5	TU KHZ		#VB	WW 1.5 WIMZ^		STATUS	Swee	p 1.067 ms	(8001 pts)









802.11ac80 Mode

5210MHz

Keysight Spe R L	ectrum Analyzer - Swept SA RF 50 Ω DC			SENSE:INT		ALIGN AUTO			8 AM Jul 15, 2018
	req 5.2100000	00 GHz	PNO: Fast IFGain:Low	Trig: Fri #Atten:		ALIGN ADTO Avg Type: Avg Hold: 1	RMS 00/100	т	RACE 1 2 3 4 5 0 TYPE A WWWWW DET A A A A A A
0 dB/div	Ref Offset 9.9 dB Ref 30.00 dBm	1					Mki		069 GHz .401 dBm
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enter 5.2 Res BW	2100 GHz 1.0 MHz	1	#\	/BW 3.0 MH			Sweep	Spar 1.067 m	a 312.0 MH s (8001 pts
sa						STATUS			

Keysight Spe R.L	RF 50 Ω DC		SENSE:INT		IGN AUTO			5 AM Jul 15, 201
	reg 5.210000000 GHz				Avg Type: F Avg Hold: 1	MS	TR	AM JUI 15, 2010 RACE 1 2 3 4 5 TYPE A WWWW
	NFE	PNO: Fast IFGain:Low	#Atten: 40 dE		Avginoid: 1			DET A A A A A
dB/div	Ref Offset 9.88 dB Ref 30.00 dBm					Mkr1	5.238 4 -13.	13 0 GH 878 dBi
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enter 5.3	2100 GHz						Span	252.0 Mi
	1.0 MHz	#VB	W 3.0 MHz*			Sweep	1.067 ms	s (8001 pi
3					STATUS			





Keysight Sp	ectrum Analyzer - Swep RF 50 Ω	t SA DC		SENSE:INT	Al	IGN AUTO		00-50-2	2 AM Jan 23, 2018
	req 5.775000		PNO: Fast		Run	Avg Type: Avg Hold: 1	RMS 100/100	т	RACE 1 2 3 4 5 6 TYPE A WWWWW DET A A A A A A
10 dB/div	Ref Offset 10.2 Ref 30.00 de						м		832 GHz .963 dBm
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-60.0									
Center 5. #Res BW	77500 GHz 510 kHz		#VE	SW 1.5 MHz	*		Swee	Spar p 1.067 m	n 147.5 MHz s (8001 pts)
MSG						STATUS		-	,