



Plot 7-598. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 36)



Plot 7-599. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 36)

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Plot 7-600. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 36)



Plot 7-601. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 36)

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Plot 7-602. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 36)



Plot 7-603. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 36)

FCC ID: BCGA2228	<u><i>CPCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-604. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 40)



Plot 7-605. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 40)

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Plot 7-606. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 40)



Plot 7-607. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 40)

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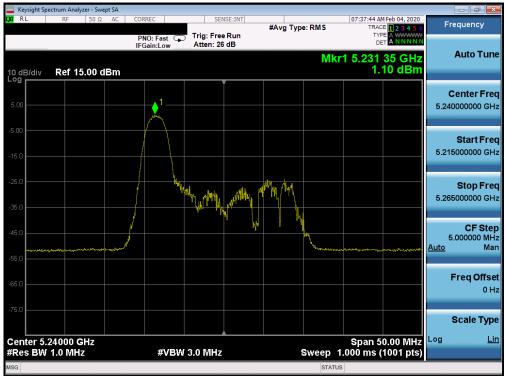
Plot 7-608. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 8- RU26 (UNII Band 1) - Ch. 40)



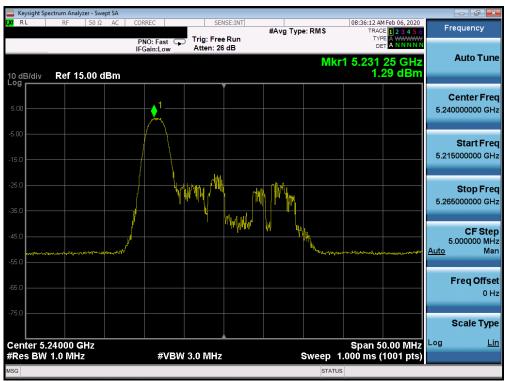
Plot 7-609. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 8- RU26 (UNII Band 1) - Ch. 40)

FCC ID: BCGA2228	<u><i>CPCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-610. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 48)



Plot 7-611. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 48)

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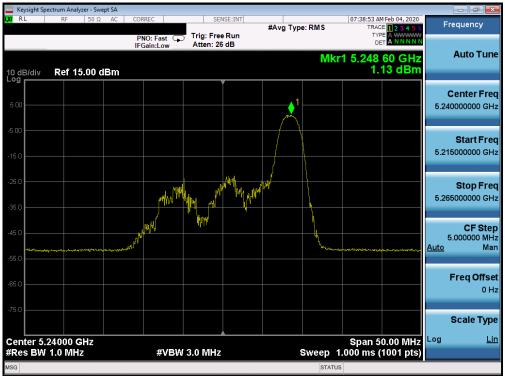
Plot 7-612. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 48)



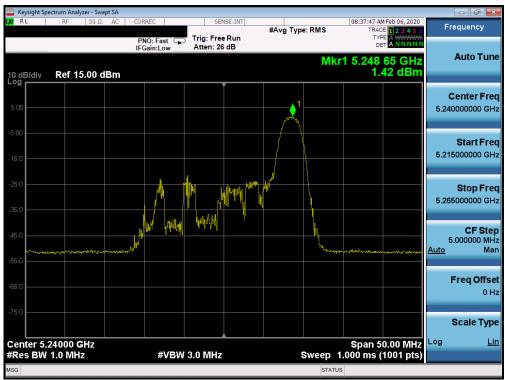
Plot 7-613. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 4 – RU26 (UNII Band 1) – Ch. 48)

FCC ID: BCGA2228	<u><i>CPCTEST</i></u>		
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Plot 7-614. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 48)



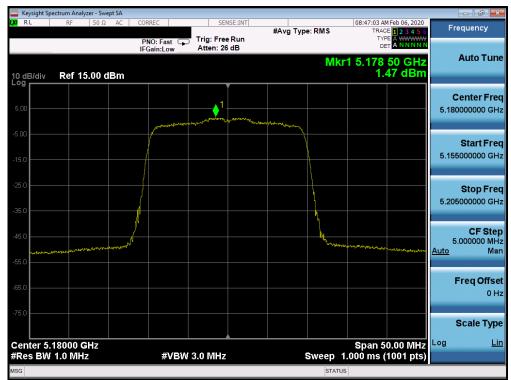
Plot 7-615. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 48)

FCC ID: BCGA2228	<u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyzer - Sv	vept SA					
L <b>XI</b> RL	RF 50 S	2 AC	CORREC	SENSE:INT	#Avg Type: RMS	07:42:50 AM Feb 04, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWW DET A NNNNN	Frequency
10 dB/div Log	Ref 15.00	dBm	IFGain:Low	Atten: 26 dB	Mk	tr1 5.181 75 GHz 1.78 dBm	Auto Tune
5.00			and the second s	1	hanne		Center Freq 5.180000000 GHz
-5.00							Start Freq 5.155000000 GHz
-25.0							<b>Stop Freq</b> 5.205000000 GHz
-45.0	1 and a start of the	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			home have	and a family of the family of	CF Step 5.000000 MHz <u>Auto</u> Man
-65.0							Freq Offset 0 Hz
-75.0							Scale Type
Center 5.′ #Res BW	18000 GHz 1.0 MHz		#VBW	3.0 MHz	Sweep	Span 50.00 MHz 1.000 ms (1001 pts)	Log <u>Lin</u>
MSG					STAT	US	

Plot 7-616. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 1) - Ch. 36)



Plot 7-617. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax-RU242 (UNII Band 1) - Ch. 36)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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	ectrum Analyzer -	Swept SA					
LXU RL	RF 50	Ω AC	PNO: Fast	Trig: Free Run Atten: 26 dB	#Avg Type: RMS	07:41:51 AM Feb 04, 2020 TRACE 1 2 3 4 5 6 TYPE A WWWWW DET A N N N N N	Frequency
10 dB/div	Ref 15.00	0 dBm	IFGain:Low	Atten: 26 dB	N	/kr1 5.199 15 GHz 2.01 dBm	Auto Tune
5.00				North Contraction	and a construction		Center Freq 5.200000000 GHz
-5.00							<b>Start Freq</b> 5.175000000 GHz
-25.0							<b>Stop Freq</b> 5.225000000 GHz
-45.0	and	han a second second			<b>`</b>	mannerton and the strengtheness	CF Step 5.000000 MHz <u>Auto</u> Man
-65.0							Freq Offsel 0 Hz
-75.0							Scale Type
Center 5. #Res BW	20000 GHz 1.0 MHz		#VB\	N 3.0 MHz	Swee	Span 50.00 MHz p 1.000 ms (1001 pts)	Log <u>Lin</u>
MSG					S	TATUS	

Plot 7-618. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 1) - Ch. 40)



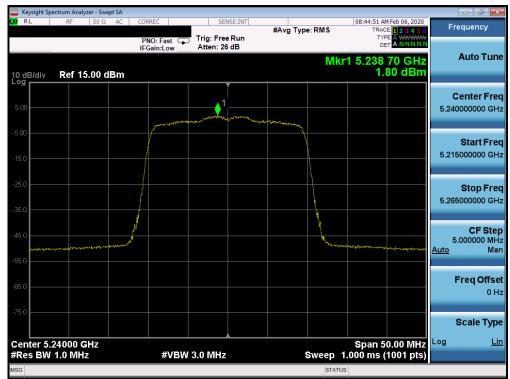
Plot 7-619. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 1) - Ch. 40)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager						
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	ectrum Analyzer - Swe	ept SA									- 0 ×
<b>lxi</b> rl	RF 50 Ω	F	NO: Fast	Trig: Free		#Avg Typ	e: RMS	TRACI	Feb 04, 2020 <b>1 2 3 4 5 6</b> A WWWWW A NNNNN	Fre	equency
10 dB/div Log	Ref 15.00 d		Gain:Low	Atten: 26	dB		Mkr	1 5.239 1.(			Auto Tune
5.00			manne		and the second second	anoun maker					enter Freq 0000000 GHz
-5.00						\\				5.215	Start Freq
-25.0										5.265	Stop Freq 000000 GHz
-45.0	the All and the second second second						Lamore	- Marthan		5. <u>Auto</u>	CF Step 000000 MHz Mar
-65.0										F	F <b>req Offse</b> 0 Hz
-75.0											Scale Type
Center 5. #Res BW	24000 GHz 1.0 MHz		#VBW	3.0 MHz			Sweep 1	Span 50 .000 ms (	0.00 MHz 1001 pts)	Log	Lin
MSG							STATUS	5			

Plot 7-620. Power Spectral Density Plot ISED CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 1) - Ch. 48)



Plot 7-621. Power Spectral Density Plot ISED CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 1) - Ch. 48)

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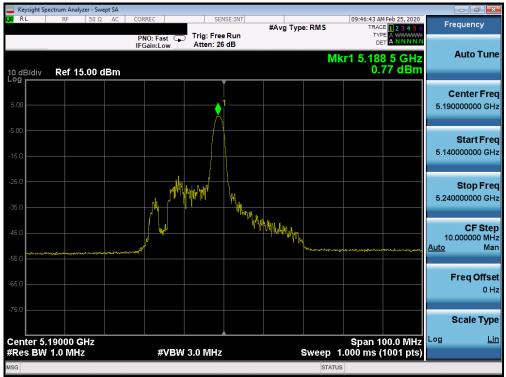
Plot 7-622. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 38)



Plot 7-623. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 38)

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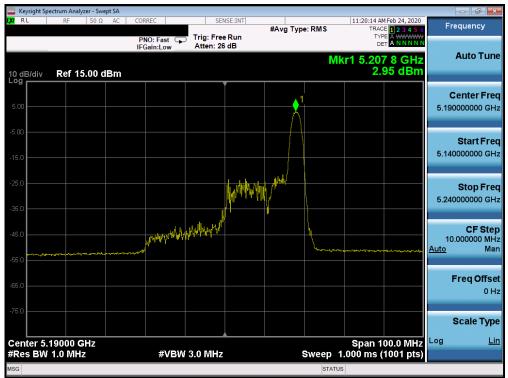
Plot 7-624. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 8 - RU26 (UNII Band 1) - Ch.



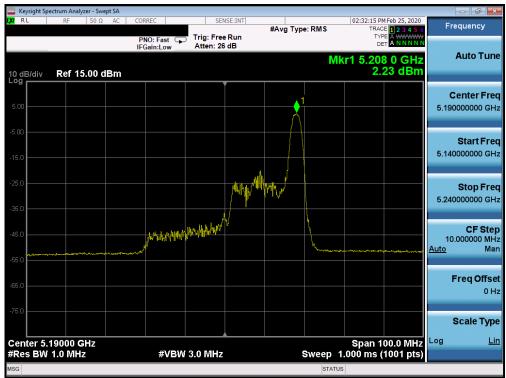
Plot 7-625. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 38)

FCC ID: BCGA2228	<u><i>CPCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-626. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 38)



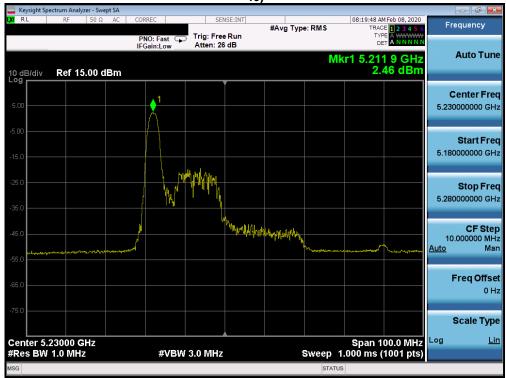
Plot 7-627. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 38)

FCC ID: BCGA2228	<u><i>CAPCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager					
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	rum Analyzer - Swe	ept SA								
LXU RL	RF 50 Ω	AC CC	ORREC	SEI	NSE:INT	#Avg Typ	e: RMS		I Feb 24, 2020	Frequency
		IF	PNO: Fast 🕞 Gain:Low	Trig: Free Atten: 26		•		TYF DE		Auto Tune
10 dB/div Log	Ref 15.00 d	Bm						2.3	a i a Bm	
5.00			<b>↓</b> 1							Center Freq 5.230000000 GHz
-5.00										<b>Start Freq</b> 5.180000000 GHz
-25.0				1111						<b>Stop Freq</b> 5.28000000 GHz
-45.0					Yath Manager	aldy for the start of the start	hand and the second	- present comment	manan	CF Step 10.000000 MHz <u>Auto</u> Man
-65.0										Freq Offset 0 Hz
-75.0										Scale Type
Center 5.23 #Res BW 1			#VBW	/ 3.0 MHz			Sweep 1	Span 1 1.000 ms (	00.0 10112	Log <u>Lin</u>
MSG							STATU		neer proj	

Plot 7-628. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 46)



Plot 7-629. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 46)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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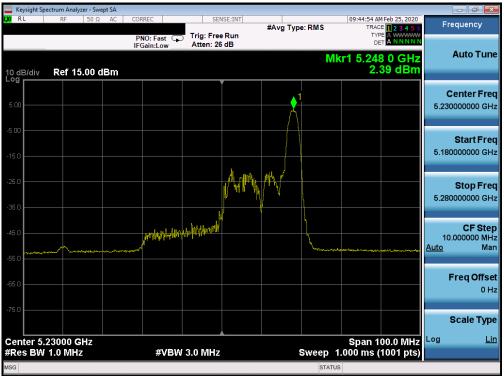
Plot 7-630. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 46)



Plot 7-631. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 8 – RU26 (UNII Band 1) – Ch. 46)

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Plot 7-632. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 46)



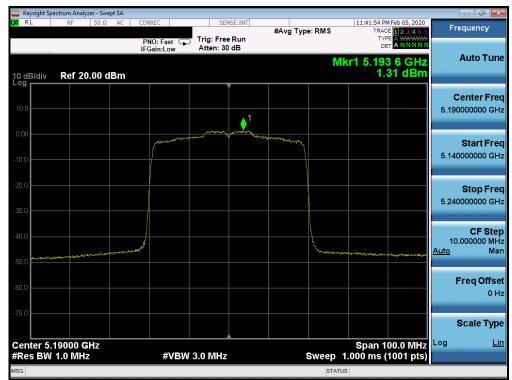
Plot 7-633. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 1) – Ch. 46)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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🔤 Keysight Sp	ectrum Analyzer	- Swept SA								
LXVI RL	RF	50 Ω AC	CORREC	Trig: Free		#Avg Typ	e: RMS	TRAC	E 1 2 3 4 5 6 A WWWWW T A NNNN	Frequency
10 dB/div Log	Ref 20.0	00 dBm	IFGain:Low	Atten: 30	) dB		Mk	(r1 5.194	4 9 GHz 68 dBm	Auto Tune
10.0					1					Center Free 5.190000000 GH
-10.0				warrow warr		and the second sec				Start Free 5.140000000 GH
-20.0										Stop Free 5.240000000 GH
-40.0	Antoneogen	and the second					All and a second second		ngentur angen gen gen gen gen gen gen gen gen gen	CF Step 10.000000 MH <u>Auto</u> Mar
-60.0										Freq Offse 0 H
-70.0										Scale Type
Center 5. #Res BW	19000 GH 1.0 MHz	Z	#VBV	V 3.0 MHz			Sweep 1	Span 1 .000 ms (	00.0 MHz 1001 pts)	Log <u>Lir</u>
MSG							STATUS	3		

Plot 7-634. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax - RU484 (UNII Band 1) - Ch. 38)



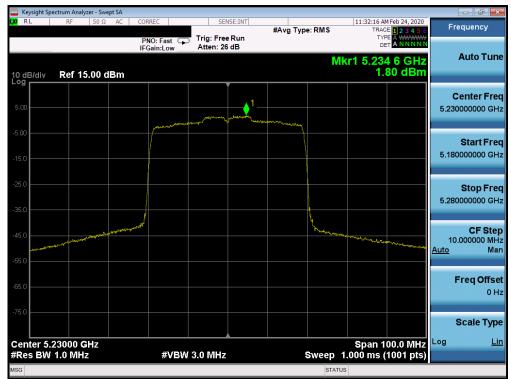
Plot 7-635. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax - RU484 (UNII Band 1) - Ch. 38)

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	pectrum Analyzer - S	Swept SA						
(XI <mark>RL</mark>	RF 50	Ω AC	CORREC	SENSE:I	#Avg Typ	e: RMS	11:27:27 AM Feb 24, 2020 TRACE 1 2 3 4 5	Frequency
			PNO: Fast IFGain:Low	Atten: 26 dB	n		TYPE A WWWM DET A NNNN	• • • • • • • • • • • • • • • • • • •
10 dB/div Log	Ref 15.00	dBm				Mł	(r1 5.233 3 GH) 1.69 dBn	
5.00					1			Center Freq 5.230000000 GHz
-5.00								<b>Start Freq</b> 5.180000000 GHz
-25.0								<b>Stop Freq</b> 5.280000000 GHz
-45.0	WANNER AND BERNINGEN	and the second				human	Crymele Angele and a start of the second	<b>CF Step</b> 10.000000 MHz <u>Auto</u> Man
-65.0								Freq Offset 0 Hz
-75.0								Scale Type
	.23000 GHz 1.0 MHz		#VBW	3.0 MHz		Sweep_1	Span 100.0 MH: .000 ms (1001 pts	Log <u>Lin</u>
MSG						STATUS		

Plot 7-636. Power Spectral Density Plot ISED CDD CORE 0 (40MHz BW 802.11ax - RU484 (UNII Band 1) - Ch. 46)



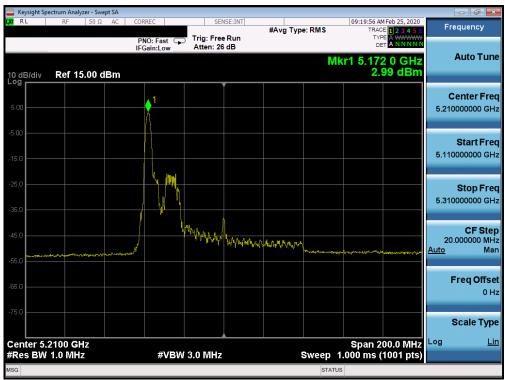
Plot 7-637. Power Spectral Density Plot ISED CDD CORE 1 (40MHz BW 802.11ax - RU484 (UNII Band 1) - Ch. 46)

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	trum Analyzer - Swep	ot SA									d 💌
LXI RL	RF 50 Ω	AC COR	REC		NSE:INT	#Avg Typ	e: RMS	09:34:27 AM F TRACE	1 2 3 4 5 6	Frequer	псу
		PN IFC	IO: Fast 🔾	Trig: Free Atten: 26				TYPE DET	A WWWWW A NNNNN		
10 dB/div Log	Ref 15.00 dl	Bm					М	kr1 5.172 2.3	2 GHz 3 dBm	Auto	Tune
209			. 1							Cente	r Freq
5.00			<u>,</u>							5.2100000	00 GHz
-5.00										Star	tFreq
-15.0										5.1100000	00 GHz
-25.0			1.44.11.44							Sto	p Freq
-35.0			, <b>1</b> , <b>1</b> , 1							5.3100000	00 GHz
-45.0				Williphanker						CI 20.0000	F Step
-55.0	ange ge la ser ta segura a mana da ma			, alle all	mmphohis	Y <sup>ho</sup> les <del>a</del> ennik/disael <sup>an</sup> t	herowindows	and a many poster and a more that the second se	- Andrew Martine	<u>Auto</u>	Mar
-65.0										Freq	Offset
-00.0											0 Hz
-75.0										Scale	е Туре
Center 5.2 #Res BW 1			#\/B\A	3.0 MHz			Sween	Span 200 1.000 ms (10	2.0 101112	Log	Lin
MSG			#VDV	5.0 WINZ			Sweep		or pis)		

Plot 7-638. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 42)



Plot 7-639. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax Index 0 – RU26 (UNII Band 1) – Ch. 42)

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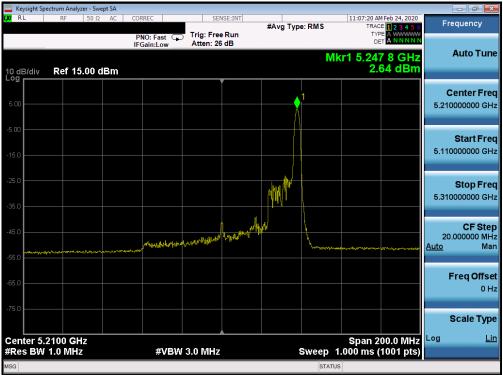
Plot 7-640. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 1) – Ch. 42)



Plot 7-641. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax Index 18 – RU26 (UNII Band 1) – Ch. 42)

FCC ID: BCGA2228	<u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-642. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 1) – Ch. 42)



Plot 7-643. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax Index 36 – RU26 (UNII Band 1) – Ch. 42)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
Test Report S/N:	Test Dates:	EUT Type:	Daga 275 of 527	
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	ectrum Analyzer - Sw	rept SA									di X
(XVI RL	RF 50 Ω		PNO: Fast			#Avg Typ	e: RMS	TRACE	Feb 04, 2020 <b>1 2 3 4 5 6</b> A WWWWW A NNNNN	Frequer	псу
10 dB/div	Ref 20.00		FGain:Low	Atten: 30	dB		M	(r1 5.220		Auto	Tune
10.0					. 1					Cente 5.2100000	e <b>r Freq</b> 00 GHz
-10.0			present and a second se	alorente famalyten	rand a	mannan				<b>Sta</b> r 5.1100000	r <b>t Freq</b> 00 GHz
-20.0										<b>Sto</b> 5.3100000	<b>p Freq</b> 00 GHz
-40.0	an gand of the state of the sta	maa faa faa daa ahaa madaa					h Manandrana	where any we	**	C 20.0000 <u>Auto</u>	F Step 00 MHz Man
-60.0										Freq	Offset 0 Hz
Center 5.2 #Res BW			#VBW	3.0 MHz			Sweep 1	Span 20 .000 ms (′	70.0 IVII 12	Scale	e Type <u>Lin</u>
MSG	HV 14112		<i>"</i> vBw	0.0 10112			STATUS		roo i ptoj		

Plot 7-644. Power Spectral Density Plot ISED CDD CORE 0 (80MHz BW 802.11ax - RU996 (UNII Band 1) - Ch. 42)



Plot 7-645. Power Spectral Density Plot ISED CDD CORE 1 (80MHz BW 802.11ax - RU996 (UNII Band 1) - Ch. 42)

FCC ID: BCGA2228	<u><u><u>C</u></u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager		
Test Report S/N:	Test Dates:	EUT Type:	D 070 (507		
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	Frequency [MHz]	Channel No.	802.11 Mode	RU Size	Index	Data Rate [Mbps]	Core 0 Power Density [dBm/500kHz]	Core 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density [dBm/500kHz]	Margin [dB]
				RU26	0	MCS0	11.89	12.63	15.29	30.00	-14.71
	5745	149	ax (20MHz)	RU26	4	MCS0	11.84	12.56	15.23	30.00	-14.77
				RU26	8	MCS0	11.85	12.23	15.05	30.00	-14.95
				RU26	0	MCS0	11.98	12.10	15.05	30.00	-14.95
	5785	157	ax (20MHz)	RU26	4	MCS0	11.89	12.52	15.23	30.00	-14.77
				RU26	8	MCS0	11.93	12.11	15.03	30.00	-14.97
				RU26	0	MCS0	11.29	11.20	14.26	30.00	-15.74
	5825	165	ax (20MHz)	RU26	4	MCS0	11.53	11.18	14.37	30.00	-15.63
d 3				RU26	8	MCS0	11.39	11.20	14.31	30.00	-15.69
Band				RU26	0	MCS0	11.88	11.68	14.79	30.00	-15.21
_	5755	151	ax (40MHz)	RU26	8	MCS0	11.58	11.55	14.58	30.00	-15.42
				RU26	17	MCS0	11.97	11.75	14.87	30.00	-15.13
				RU26	0	MCS0	11.48	11.47	14.49	30.00	-15.51
	5795	159	ax (40MHz)	RU26	8	MCS0	11.38	11.42	14.41	30.00	-15.59
			RU26	17	MCS0	12.02	11.41	14.74	30.00	-15.26	
			155 ax (80MHz)	RU26	0	MCS0	9.11	8.58	11.86	30.00	-18.14
	5775	155		RU26	18	MCS0	8.92	8.29	11.63	30.00	-18.37
				RU26	36	MCS0	8.94	8.07	11.54	30.00	-18.46

Table 7-80. Band 3 Conducted Power Spectral Density Measurements CDD/SDM (RU26)

	Frequency [MHz]	Channel No.	802.11 Mode	RU Size	Index	Data Rate [Mbps]	Core 0 Power Density [dBm/500kHz]	Core 1 Power Density [dBm/500kHz]	Summed Power Density [dBm/500kHz]	Max Permissible Power Density Limit [dBm/500kHz]	Margin [dB]
	5745	149	ax (20MHz)	RU242	61	MCS0	4.61	4.81	7.72	30.0	-22.28
	5785	157	ax (20MHz)	RU242	61	MCS0	4.70	4.30	7.51	30.0	-22.49
а 3	5825	165	ax (20MHz)	RU242	61	MCS0	3.94	3.99	6.98	30.0	-23.02
Band	5755	151	ax (40MHz)	RU484	65	MCS0	1.23	1.16	4.21	30.0	-25.79
	5795	159	ax (40MHz)	RU484	65	MCS0	0.86	0.81	3.85	30.0	-26.15
	5775	155	ax (80MHz)	RU996	67	MCS0	-4.53	-5.25	-1.86	30.0	-31.86

Table 7-81. Band 3 Conducted Power Spectral Density Measurements CDD/SDM (Full RU)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager	
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Plot 7-646. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 149)



Plot 7-647. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 149)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager					
Test Report S/N:	Test Dates:	EUT Type:	D 070 ( 507					
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Plot 7-648. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 4 - RU26 (UNII Band 3) - Ch. 149)



Plot 7-649. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 4 - RU26 (UNII Band 3) - Ch. 149)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	D 070
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Plot 7-650. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 149)



Plot 7-651. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 149)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-652. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 157)



Plot 7-653. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 157)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N:	Test Dates:	EUT Type:	Dama 204 at 527
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Plot 7-654. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 4 - RU26 (UNII Band 3) - Ch. 157)



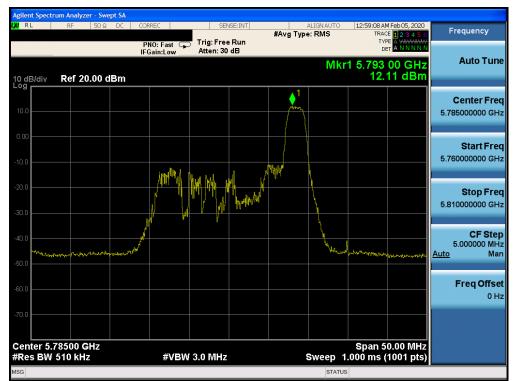
Plot 7-655. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 4 - RU26 (UNII Band 3) - Ch. 157)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-656. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 8- RU26 (UNII Band 3) - Ch. 157)



Plot 7-657. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 8- RU26 (UNII Band 3) - Ch. 157)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-658. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 165)



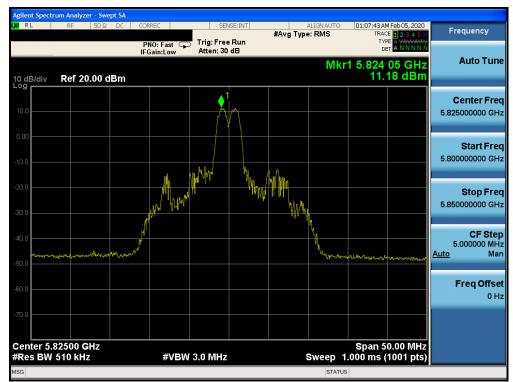
Plot 7-659. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 165)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-660. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 4 - RU26 (UNII Band 3) - Ch. 165)



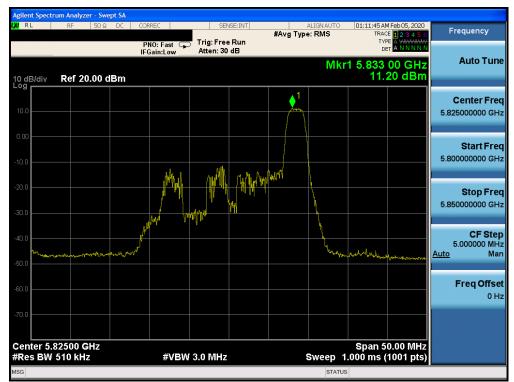
Plot 7-661. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 4 - RU26 (UNII Band 3) - Ch. 165)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-662. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 165)



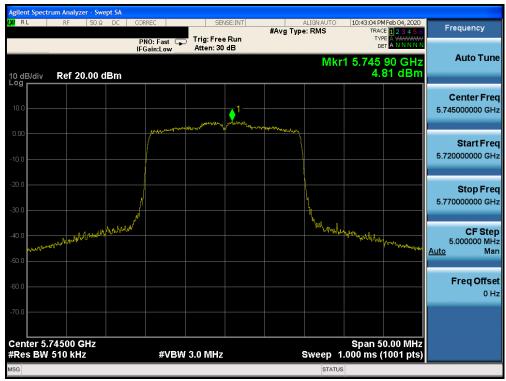
Plot 7-663. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 165)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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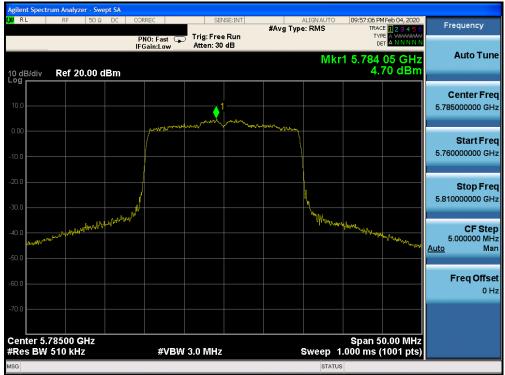
Plot 7-664. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax-RU242 (UNII Band 3) - Ch. 149)



Plot 7-665. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax-RU242 (UNII Band 3) - Ch. 149)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-666. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 3) - Ch. 157)



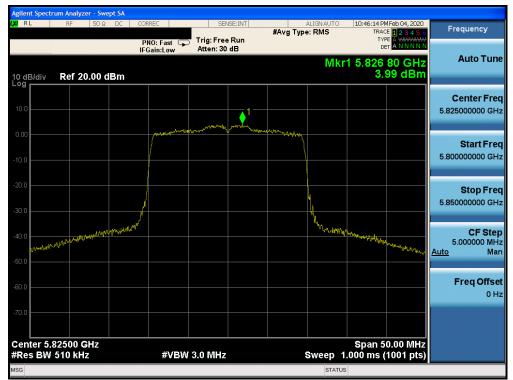
Plot 7-667. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 3) - Ch. 157)

FCC ID: BCGA2228	<u> PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Plot 7-668. Power Spectral Density Plot CDD CORE 0 (20MHz BW 802.11ax- RU242 (UNII Band 3) - Ch. 165)



Plot 7-669. Power Spectral Density Plot CDD CORE 1 (20MHz BW 802.11ax- RU242 (UNII Band 3) - Ch. 165)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dama 000 of 507			
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	ectrum Analyzer - Swe	ept SA								[	- 6 .
LXI RL	RF 50 Ω	AC COR	REC	SEN	ISE:INT	#Avg Type	e: RMS		M Feb 06, 2020	Fre	quency
		PN IFG	IO: Fast 😱 Sain:Low	Trig: Free Atten: 30		0.71		TY			
10 dB/div Log	Ref 20.00 d	IBm					Μ	lkr1 5.73 11.	7 1 GHz 88 dBm		Auto Tune
10.0			<b>↓</b> <sup>1</sup>								<b>enter Freq</b> 000000 GHz
-10.0			Mu								<b>Start Freq</b> 000000 GHz
-20.0											Stop Freq 000000 GHz
-40.0	www.	uh Julit al			MMChappp	Hel Var prover	he contraction of the second sec			10. <u>Auto</u>	<b>CF Step</b> 000000 MHz Man
-50.0	AG-2000 A-2000 A-200						- Mumm	nded con harring allowed	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	F	<b>req Offset</b> 0 Hz
-70.0										S	cale Type
Center 5. #Res BW	75500 GHz 510 kHz		#VBW	3.0 MHz			Sweep	Span 1 1.000 ms (	00.0 101112	Log	<u>Lin</u>
MSG							STAT				

Plot 7-670. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 151)



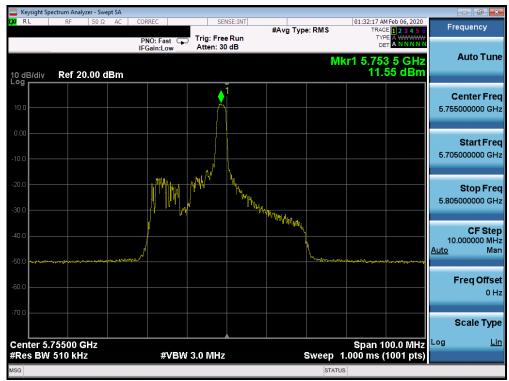
Plot 7-671. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 151)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager						
Test Report S/N:	Test Dates:	EUT Type:	Dage 200 of 527						
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	ectrum Analyzer - Swept SA						
LXU RL	RF 50 Ω AC	CORREC	SENSE:INT	#Avg Typ	e: RMS	01:14:31 AM Feb 06, 2020 TRACE 1 2 3 4 5 6	Frequency
10 dB/div	Ref 20.00 dBm	PNO: Fast IFGain:Low	Trig: Free Run Atten: 30 dB	0,1		cr1 5.753 2 GHz 11.58 dBm	Auto Tune
10.0							Center Freq 5.755000000 GHz
-10.0		4. h dh And					<b>Start Freq</b> 5.705000000 GHz
-20.0			Willow V	Wind wind with white we			<b>Stop Freq</b> 5.805000000 GHz
-40.0		V vlunter		I M Roh	L.	Chan in Marcale Server and surger and the server of the	CF Step 10.000000 MHz <u>Auto</u> Man
-60.0							Freq Offset 0 Hz
-70.0							Scale Type
Center 5. #Res BW	75500 GHz 510 kHz	#VBW	3.0 MHz		Sweep 1	Span 100.0 MHz .000 ms (1001 pts)	
MSG					STATU		

Plot 7-672. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 151)



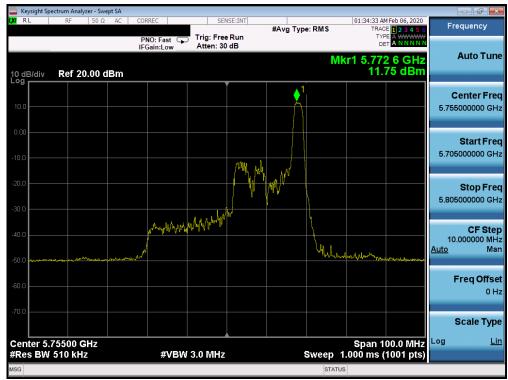
Plot 7-673. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 151)

FCC ID: BCGA2228	<u><i>PCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager								
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Plot 7-674. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 17 - RU26 (UNII Band 3) - Ch. 151)



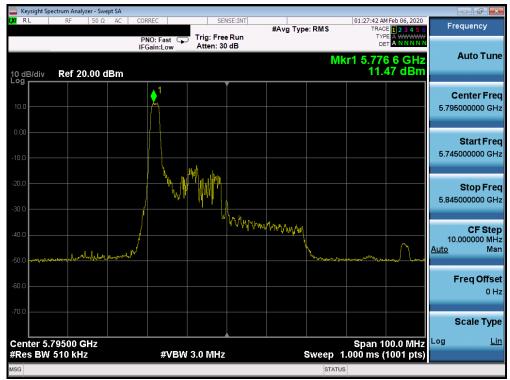
Plot 7-675. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 17 – RU26 (UNII Band 3) – Ch. 151)

FCC ID: BCGA2228	<u>PCTEST</u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager			
Test Report S/N:	Test Dates:	EUT Type:	Dama 200 af 507			
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	ectrum Analyzer - Swep										
LXIRL	RF 50 Ω	AC COR	REC	SEN	ISE:INT	#Avg Typ	e RMS		M Feb 06, 2020	Freque	ncy
10 dB/div	Ref 20.00 d	IFG	IO: Fast 🕞	Trig: Free Atten: 30				۳۲ ۱kr1 5.77		Aut	o Tune
10.0										Cent 5.7950000	e <b>r Freq</b> 000 GHz
-10.0										Sta 5.7450000	<b>rt Freq</b> 000 GHz
-20.0		1	<sup>V</sup> hYW							<b>Sto</b> 5.8450000	<b>p Freq</b> 000 GHz
-40.0		Jull			10pgr-yog	Mannyhhphp	M.	nter for the set of th			F Step 000 MHz Man
-60.0										Freq	<b>Offset</b> 0 Hz
-70.0	79500 GHz							Snap-1	00.0 MHz	Scal	e Type <u>Lin</u>
#Res BW			#VBW	3.0 MHz			Sweep	1.000 ms (		_	
MSG							STAT	US			

Plot 7-676. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 159)



Plot 7-677. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 159)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager						
Test Report S/N:	Test Dates:	EUT Type:	Dama 000 af 507						
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	ctrum Analyzer - Swe	ept SA									- 6 ×
LXI RL	RF 50 Ω		ORREC		Run	#Avg Typ	e: RMS	TRAC	M Feb 06, 2020 CE 1 2 3 4 5 6 PE A WWWWWW ET A N N N N N	Fre	equency
10 dB/div Log	Ref 20.00 d	I	FGain:Low	Atten: 30			N	lkr1 5.79			Auto Tune
10.0					1						enter Freq 000000 GHz
-10.0			d.,	hilled						5.745	Start Freq
-20.0					WWW HUNDAN	Ww.l.				5.845	Stop Freq
-40.0	e and in Ω and any angle and be	and the galance	/			a with refright	4	مرور بر مور مرور می مرور مرور مرور مرور مرور م		10 <u>Auto</u>	CF Step 000000 MHz Mar
-60.0										F	F <b>req Offse</b> l 0 Hz
-70.0											Scale Type
Center 5.7 #Res BW	'9500 GHz 510 kHz		#VBW	3.0 MHz			Sweep	Span 1 1.000 ms (		Log	Lin
MSG							STAT	rus			

Plot 7-678. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 159)



Plot 7-679. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 8 - RU26 (UNII Band 3) - Ch. 159)

FCC ID: BCGA2228	<u><i>PCTEST</i></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager						
Test Report S/N:	Test Dates:	EUT Type:	Page 394 of 537						
1C1912170050-09.BCG	12/10/2019 - 02/26/2020	Tablet Device							
V 9.0 02/01/2019									



	pectrum Anal		ot SA									_	- # <b>X</b>
I <mark>X/</mark> RL	RF	50 Ω	AC	CORREC	st 😱	Trig: Free		#Avg Ty	vpe: RMS	TRA	M Feb 06, 2020 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Freq	uency
10 dB/div Log	Ref 2	0.00 dl	Bm	IFGain:Lo	w	Atten: 30	dB		М	kr1 5.81	2 8 GHz 02 dBm	A	uto Tune
10.0									1				nter Fred 00000 GH:
-10.0							ر مارم						Start Free
-20.0													Stop Free 00000 GH
-40.0	lunamar	-Ang and the optimus	-Annaparate	pluph fr nn	wyw,	nyhini yaliyi				Webrahren	ater Martin America	10.0 <u>Auto</u>	CF Stej 00000 MH Mai
60.0												Fr	e <b>q Offse</b> 0 H
-70.0													ale Type
Center 5. #Res BW				#	VBW	3.0 MHz			Sweep	Span 1 1.000 ms	00.0 MHz (1001 pts)	Log	Lir
//SG									STATU	IS			

Plot 7-680. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax Index 17 - RU26 (UNII Band 3) - Ch. 159)



Plot 7-681. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax Index 17 - RU26 (UNII Band 3) - Ch. 159)

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🔤 Keysight Sp	ectrum Analyzer - Sw	vept SA									r X
X/RL	RF 50 Ω		ORREC		SE:INT	#Avg Typ	e:RMS	TRAC	M Feb 05, 2020 CE 1 2 3 4 5 6 PE A WWWWW ET A N N N N N	Freque	ncy
10 dB/div Log	Ref 20.00	I	FGain:Low	Atten: 30			Mk	(r1 5.75	9 8 GHz 23 dBm	Aut	o Tune
10.0					1					Cent 5.7550000	er Free DOO GH
10.00				with the second s	Ant-contraction	With the second				Sta 5.7050000	<b>rt Fre</b> 000 GH
30.0										<b>Sto</b> 5.8050000	<b>р Fre</b> 000 GH
40.0	In the work of the start	Umerlyninghi	d 				Wownerge	allefrankerre	en solar and the	0 10.0000 <u>Auto</u>	F Ste 000 MH Ma
60.0										Freq	<b>Offse</b> 0 H
-70.0											е Тур
	75500 GHz 510 kHz		#VBW	3.0 MHz			Sweep 1	Span 1 .000 ms (	00.0 MHz (1001 pts)	Log	Lii
ISG							STATUS	3			

Plot 7-682. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax - RU484 (UNII Band 3) - Ch. 151)



Plot 7-683. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax - RU484 (UNII Band 3) - Ch. 151)

FCC ID: BCGA2228	<u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyzer -										r X
XI RL	RF 50	Ω AC	CORREC		SE:INT	#Avg Typ	e: RMS	TRA	PM Feb 05, 2020 CE 1 2 3 4 5 6	Freque	ency
10 dB/div	Ref 20.00	) dBm	PNO: Fast IFGain:Low	Atten: 30			M	kr1 5.79	8 0 GHz 86 dBm	Aut	o Tun
- <b>og</b> 10.0					<b>↓</b> <sup>1</sup>					Cent 5.795000	e <b>r Fre</b> 000 GH
10.00					and the second second	An marker and a second second				<b>St</b> a 5.745000	art Fre 000 GH
20.0 30.0										<b>Sto</b> 5.845000	<b>op Fre</b> 000 GH
40.0 50.0	where and a start of the start	proposition	<sup>7</sup> ملير 				munghara	A Margarith Report	Un Munder James	0 10.000 <u>Auto</u>	CF Ste 000 M⊦ Ma
60.0										Fred	<b>Offs</b> o 0⊦
											le Typ
	79500 GHz 510 kHz		#VBW	/ 3.0 MHz			Sweep ′	Span 1 1.000 ms	100.0 MHz (1001 pts)	Lóg	Li
ISG							STATU	s			

Plot 7-684. Power Spectral Density Plot CDD CORE 0 (40MHz BW 802.11ax - RU484 (UNII Band 3) - Ch. 159)



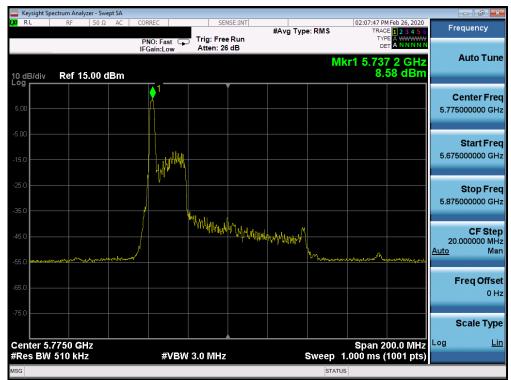
Plot 7-685. Power Spectral Density Plot CDD CORE 1 (40MHz BW 802.11ax - RU484 (UNII Band 3) - Ch. 159)

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	pectrum Analyzer - Sw	ept SA									×
LXU RL	RF 50 Ω	AC (	CORREC	SEI	ISE:INT	#Avg Typ	e: RMS		HFeb 26, 2020	Frequency	y
			PNO: Fast G	Trig: Free Atten: 26				TYP			
10 dB/div Log	Ref 15.00 (	dBm					Μ	kr1 5.73 9.	7 4 GHz 11 dBm	Auto T	'une
5.00										Center F 5.775000000	
-5.00										Start F 5.675000000	
-25.0										<b>Stop F</b> 5.875000000	
-45.0	harring Margar	- Angenetra		"NWY WWW	W WHAT WAY	<sup>a</sup> yyyyyyyyyyyy	human	and any strategy of the	J.J.g.Tonyeronyte.gottage1994489	CF S 20.000000 <u>Auto</u>	
-65.0										Freq Of	f <b>fset</b> 0 Hz
-75.0										Scale T	Гуре
	.7750 GHz / 510 kHz		#\/B\/	/ 3.0 MHz			Sween	Span 2 1.000 ms (	00.0 MHz 1001 pts)	Log	<u>Lin</u>
MSG	VIV KIIZ		<i></i>	-5.0-141112			STATI	-	roor pts)		_

Plot 7-686. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 155)



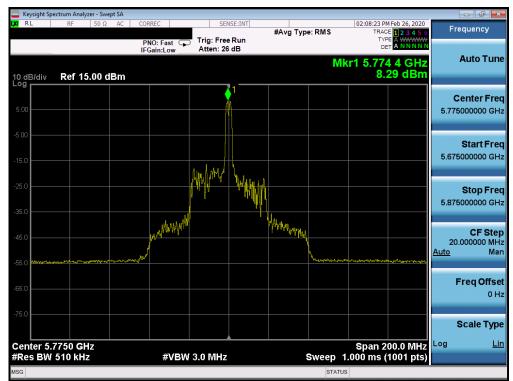
Plot 7-687. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 0 - RU26 (UNII Band 3) - Ch. 155)

FCC ID: BCGA2228	<u><u>PCTEST</u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyzer - S	wept SA						
X/RL	RF 50	Ω AC	CORREC	SENSE:INT	#Avg Typ	e:RMS	01:52:44 PM Feb 26, 2020 TRACE 1 2 3 4 5 6	Frequency
			PNO: Fast 😱 IFGain:Low	Atten: 26 dB			TYPE A WWWW DET A NNNNN	Auto Tune
10 dB/div Log r	Ref 15.00	dBm				N	lkr1 5.775 6 GHz 8.92 dBm	Auto Tune
				1 //				Center Free
5.00								5.775000000 GH:
-5.00								Start Free
-15.0				/				5.675000000 GH
-25.0			-		<u>/111</u>			Stop Free
-35.0								5.875000000 GH
			Mr.W. Walay Mr	ų,	Wundhymouth			CF Ste
45.0			N			l		20.000000 MH Auto Ma
-55.0 ******	en an	here and an and a second second	h., <sup>ju</sup>			Margaranger	man an an Min Marchangene	
-65.0								Freq Offse
.75.0								UT OT
								Scale Type
	7750 GHz		# (DW)			•	Span 200.0 MHz	Log <u>Li</u> i
#Res BW	5TU KHZ		#VBW	3.0 MHz		Sweep	1.000 ms (1001 pts)	

Plot 7-688. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 18 - RU26 (UNII Band 3) - Ch. 155)



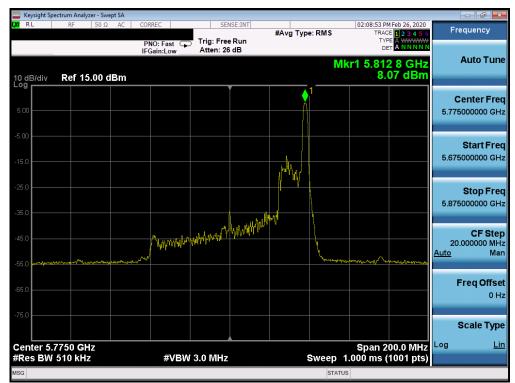
Plot 7-689. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 18 - RU26 (UNII Band 3) - Ch. 155)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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	ectrum Analyze	er - Swept SA	<b>N</b>									- <i>•</i>
<b>l,XI</b> RL	RF	50 Ω AC				ISE:INT	#Avg Type	e: RMS	TRAC	M Feb 26, 2020	Fre	quency
	_		PNO IFGai	:Fast 🖵 n:Low	Trig: Free Atten: 26							Turne
10 dB/div Log	Ref 15.	00 dBn	n					M	kr1 5.81 8.	3 0 GHz 94 dBm		Auto Tune
5.00								1				e <b>nter Freq</b> 000000 GHz
-5.00							hha MM					<b>Start Freq</b> 000000 GHz
-25.0												<b>Stop Freq</b> 000000 GHz
-45.0				nyadu.Nyany Manyi	hayrudayw <sup>ro</sup>		<mark>//</mark>	) humber	man	And Marine Marine	20.0 <u>Auto</u>	<b>CF Step</b> 000000 MHz Man
-65.0											F	r <b>eq Offset</b> 0 Hz
-75.0											S	cale Type
Center 5. #Res BW	7750 GHz 510 kHz	z		#VBW	3.0 MHz			Sweep ′	Span 2 1.000 ms (	00.0 MHz 1001 pts)	Log	<u>Lin</u>
MSG								STATU	IS			

Plot 7-690. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax Index 36 - RU26 (UNII Band 3) - Ch. 155)



Plot 7-691. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax Index 36 - RU26 (UNII Band 3) - Ch. 155)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Keysight S	pectrum Analy:	zer - Swept SA	A									
LXU RL	RF	50 Ω A	PN	EC D:Fast 🕞			#Avg Typ	e:RMS	TRAC	M Feb 26, 2020 DE <b>1 2 3 4 5 6</b> PE A WWWWW ET A N N N N N	Freque	ency
10 dB/div	Ref 15	.00 dBn		am.Low	/ defi. 20			M	(r1 5.78 -4.	3 8 GHz 53 dBm	Aut	o Tune
5.00						<b>↓</b> 1					Cent 5.775000	<b>er Freq</b> 000 GHz
-5.00			ļ	n genn hannen	Jugate of Party and and a	prover a logar	www.wermen				<b>St</b> a 5.675000	a <b>rt Frec</b> 000 GHz
-25.0											<b>Sto</b> 5.875000	o <b>p Frec</b> 000 GHz
-45.0	www.	an and the second	Annon					h. Marghan Margan	hurturor	And and a state of the state of		CF Step 000 MH: Mar
-65.0											Free	<b>Offse</b> 0 Hi
-75.0 Center 5	7750 GH	7							Snap 2	:00.0 MHz		le Type <u>Lir</u>
#Res BW				#VBW	3.0 MHz				.000 ms (	(1001 pts)		
MSG								STATUS	5			

Plot 7-692. Power Spectral Density Plot CDD CORE 0 (80MHz BW 802.11ax - RU996 (UNII Band 3) - Ch. 155)



Plot 7-693. Power Spectral Density Plot CDD CORE 1 (80MHz BW 802.11ax - RU996 (UNII Band 3) - Ch. 155)

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Note:

Per ANSI C63.10-2013 Section 14.3.2.2 and KDB 662911 v02r01 Section E)2), the power spectral density at Core 0 and Core 1 were first measured separately with reduced Core 0 and Core 1 powers per manufacture's tune-up document. The measured values were then summed in linear power units then converted back to dBm.

## Sample Directional Gain Calculation:

Assuming the antenna gain is -8.61 dBi for Core 0 and -7.68 dBi for Core 1.

Directional gain = 
$$10 \log[(10^{G_{1/20}} + 10^{G_{2/20}} + ... + 10^{G_{N/20}})^2 / N_{ANT}] dBi$$
  
=  $10 \log[(10^{-8.61/20} + 10^{-7.68/20} / 2] dBi$   
= (-5.12) dBi

#### Sample CDD Calculation:

Assuming the average conducted power spectral density was measured to be 5.88 dBm for Core 0 and 6.27 dBm for Core 1.

Core 
$$0 + Core 1 = CDD$$

(5.88 dBm + 6.27 dBm) = (3.87 mW + 4.24 mW) = 8.11mW = 9.09 dBm

#### Sample e.i.r.p Power Spectral Density Calculation:

Assuming the average CDD power density was calculated to be 9.09 dBm with directional gain of -5.12 dBi.

e.i.r.p. Power Spectral Density(dBm) = Power Spectral Density (dBm) + directional gain (dBi)

9.09 dBm + (-5.12) dBi = 3.97 dBm

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# 7.6 Radiated Spurious Emission Measurements – Above 1GHz §15.407(b) §15.205 §15.209; RSS-Gen [8.9]

## **Test Overview and Limit**

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. RU26, 52 Tones, RU106, RU242, RU484 and RU996), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of −27 dBm/MHz.

For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an EIRP of -27 dBm/MHz.

For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-82 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]	
Above 960.0 MHz	500	3	

Table 7-82. Radiated Limits

#### **Test Procedures Used**

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5 KDB 789033 D02 v02r01 – Section G

#### **Test Settings**

#### Average Measurements above 1GHz (Method AD)

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = power average (RMS)
- 5. Number of measurement points = 1001 (Number of points must be  $\geq 2 \times \text{span/RBW}$ )
- 6. Averaging type = power (RMS)
- 7. Sweep time = auto couple
- 8. Trace was averaged over 100 sweeps

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## Peak Measurements above 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

## Peak Measurements below 1GHz

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. Span was set greater than 1MHz
- 3. RBW = 120kHz
- 4. Detector = CISPR quasi-peak
- 5. Sweep time = auto couple
- 6. Trace was allowed to stabilize

#### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

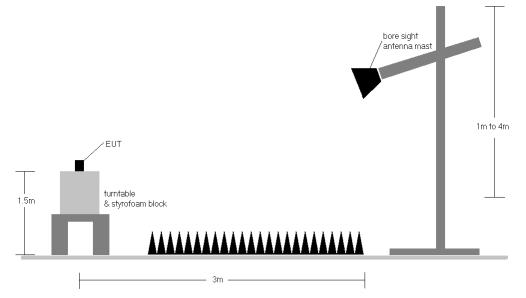


Figure 7-5. Test Instrument & Measurement Setup

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Test Notes

- 1. All emissions that lie in the restricted bands (denoted by a \* next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-82.
- 2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-82. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a "conversion" factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
- 3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
- 4. This unit was tested with its standard battery.
- 5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
- 6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
- 8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.
- 10. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

#### Sample Calculations

#### **Determining Spurious Emissions Levels**

- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBμV/m] Limit [dBμV/m]

#### Radiated Band Edge Measurement Offset

• The amplitude offset shown in the radiated restricted band edge plots in Section 7.6 was calculated using the formula:

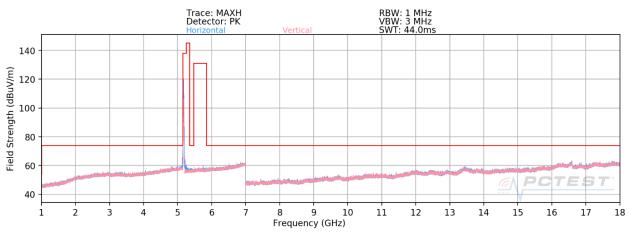
#### Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) - Preamplifier Gain

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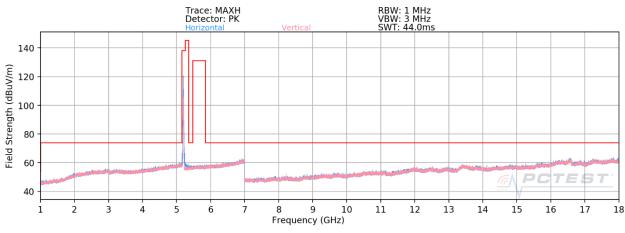


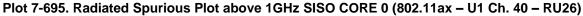
# 7.6.1 SISO Core 0 Radiated Spurious Emission Measurements

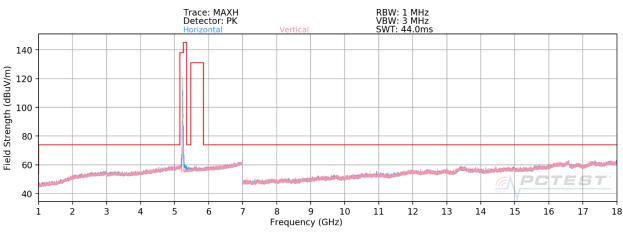
**RU26** 



Plot 7-694. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U1 Ch. 36 - RU26)



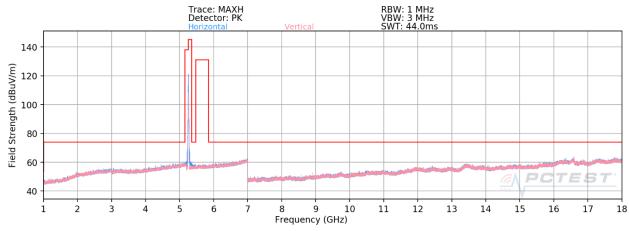




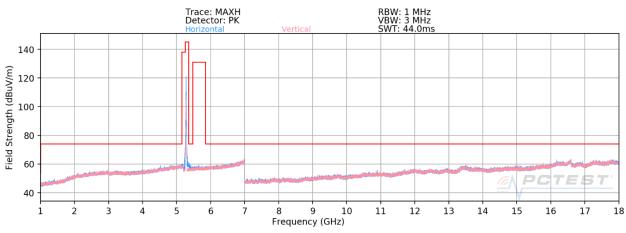
Plot 7-696. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U1 Ch. 48 - RU26)

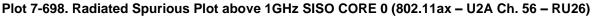
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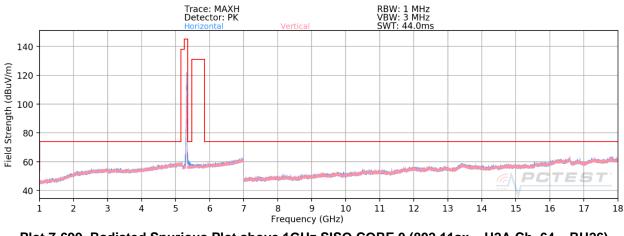




Plot 7-697. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U2A Ch. 52 - RU26)



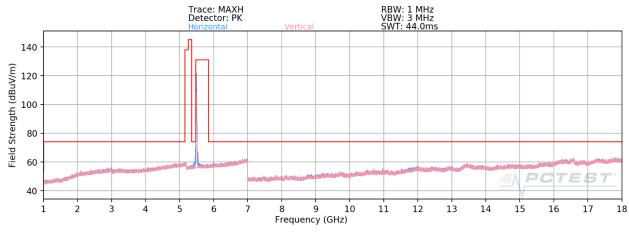




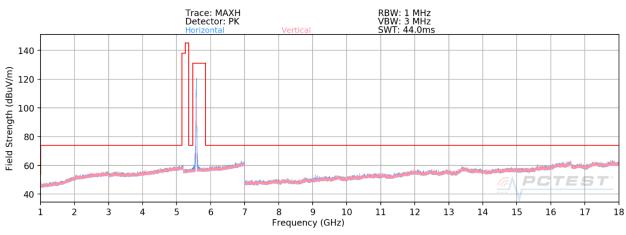
Plot 7-699. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U2A Ch. 64 - RU26)

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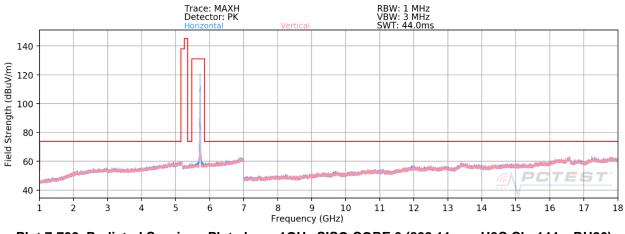




Plot 7-700. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U2C Ch. 100 - RU26)



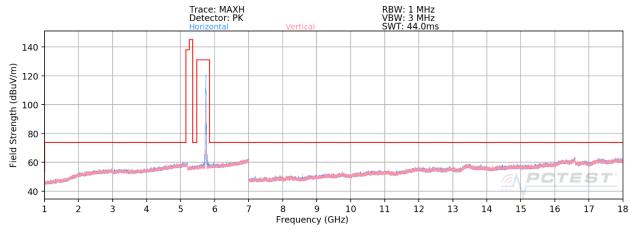




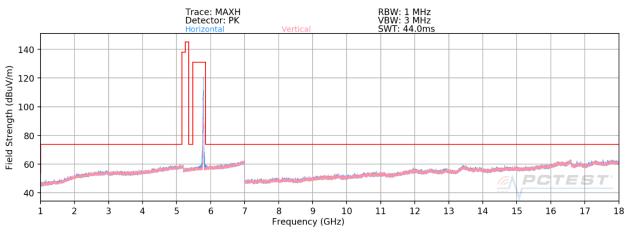
Plot 7-702. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U2C Ch. 144 - RU26)

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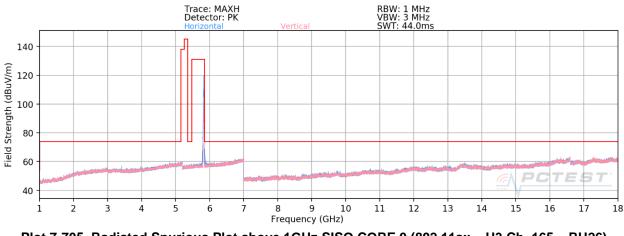




Plot 7-703. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U3 Ch. 149 - RU26)







Plot 7-705. Radiated Spurious Plot above 1GHz SISO CORE 0 (802.11ax - U3 Ch. 165 - RU26)

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# SISO Core 0 Radiated Spurious Emission Measurements (RU26) §15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

802.11ax (20MHz BW)
MCS0
54
3 Meters
5180MHz
36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	Н	-	-	-73.50	18.62	52.12	68.20	-16.08
15540.00	Average	н	-	-	-85.94	25.60	46.66	53.98	-7.32
15540.00	Peak	н	-	-	-74.74	25.60	57.86	73.98	-16.12

Table 7-83. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5200MHz
Channel:	40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin (dB)
10400.00	Peak	Н	-	-	-73.98	18.72	51.74	68.20	-16.46
15600.00	Average	н	-	-	-85.62	25.91	47.29	53.98	-6.69
15600.00	Peak	Н	-	-	-74.32	25.91	58.59	73.98	-15.39

Table 7-84. Radiated Measurements SISO CORE 0 (RU26)

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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5240MHz
Channel:	48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	Н	-	-	-73.68	19.81	53.13	68.20	-15.07
15720.00	Average	н	-	-	-85.58	25.55	46.97	53.98	-7.01
15720.00	Peak	Н	-	-	-74.39	25.55	58.16	73.98	-15.82

# Table 7-85. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:802Worst Case Transfer Rate:MCRU Index:54Distance of Measurements:3 MOperating Frequency:526Channel:52

802.11ax (20MHz BW)
MCS0
54
3 Meters
5260MHz
52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	Н	-	-	-73.30	19.96	53.66	68.20	-14.54
15780.00	Average	Н	-	-	-86.06	25.70	46.64	53.98	-7.34
15780.00	Peak	Н	-	-	-74.90	25.70	57.80	73.98	-16.18

Table 7-86. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2228		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager					
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802.11ax (20MHz BW)
MCS0
54
3 Meters
5280MHz
56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	Н	-	-	-73.21	19.70	53.49	68.20	-14.71
15840.00	Average	Н	-	-	-85.83	25.59	46.76	53.98	-7.22
15840.00	Peak	Н	-	-	-74.42	25.59	58.17	73.98	-15.81

# Table 7-87. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:802.1Worst Case Transfer Rate:MCSRU Index:54Distance of Measurements:3 MetOperating Frequency:5320MChannel:64

802.11ax (20MHz BW)
MCS0
54
3 Meters
5320MHz
64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10640.00	Average	Н	-	-	-84.84	19.69	41.85	53.98	-12.13
10640.00	Peak	Н	-	-	-73.35	19.69	53.34	73.98	-20.64
15960.00	Average	Н	-	-	-85.62	26.01	47.39	53.98	-6.59
15960.00	Peak	Н	-	-	-74.68	26.01	58.33	73.98	-15.65

Table 7-88. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager				
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Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5500MHz
Channel:	100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11000.00	Average	Н	-	-	-84.82	19.67	41.85	53.98	-12.13
11000.00	Peak	Н	-	-	-72.16	19.67	54.51	73.98	-19.47
16500.00	Peak	Н	-	-	-73.59	26.61	60.02	68.20	-8.18

Table 7-89. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5580MHz
Channel:	116

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11160.00	Average	н	-	-	-85.09	19.90	41.81	53.98	-12.17
11160.00	Peak	н	-	-	-73.94	19.90	52.96	73.98	-21.02
16740.00	Peak	Н	-	-	-74.71	27.52	59.81	68.20	-8.39

Table 7-90. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2228	PCTEST	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Worst Case Mode:	802.11ax (20MHz BW)			
Worst Case Transfer Rate:	MCS0			
RU Index:	54			
Distance of Measurements:	3 Meters			
Operating Frequency:	5720MHz			
Channel:	144			

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11440.00	Average	Н	-	-	-85.96	20.25	41.29	53.98	-12.69
11440.00	Peak	Н	-	-	-74.87	20.25	52.38	73.98	-21.60
17160.00	Peak	Н	-	-	-73.87	27.51	60.64	68.20	-7.56

# Table 7-91. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode:	802.11ax (20MHz BW)
Worst Case Transfer Rate:	MCS0
RU Index:	54
Distance of Measurements:	3 Meters
Operating Frequency:	5745MHz
Channel:	149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11490.00	Average	н	-	-	-85.83	20.15	41.32	53.98	-12.66
11490.00	Peak	н	-	-	-73.98	20.15	53.17	73.98	-20.81
17235.00	Peak	Н	-	-	-74.06	28.21	61.15	68.20	-7.05

Table 7-92. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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802.11ax (20MHz BW)
MCS0
54
3 Meters
5785MHz
157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11570.00	Average	Н	-	-	-85.18	20.30	42.12	53.98	-11.85
11570.00	Peak	Н	-	-	-74.23	20.30	53.07	73.98	-20.90
17355.00	Peak	Н	-	-	-74.50	27.92	60.42	68.20	-7.78

# Table 7-93. Radiated Measurements SISO CORE 0 (RU26)

Worst Case Mode: Worst Case Transfer Rate: RU Index: Distance of Measurements: Operating Frequency: Channel:

802.11ax (20MHz BW)
MCS0
54
3 Meters
5825MHz
165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
11650.00	Average	н	-	-	-85.36	21.29	42.93	53.98	-11.05
11650.00	Peak	н	-	-	-73.90	21.29	54.39	73.98	-19.59
17475.00	Peak	Н	-	-	-75.12	28.14	60.02	68.20	-8.18

Table 7-94. Radiated Measurements SISO CORE 0 (RU26)

FCC ID: BCGA2228	<u><u><u></u><u>PCTEST</u></u></u>	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager				
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