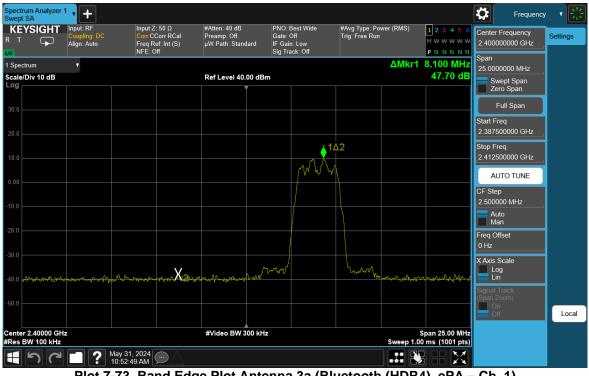
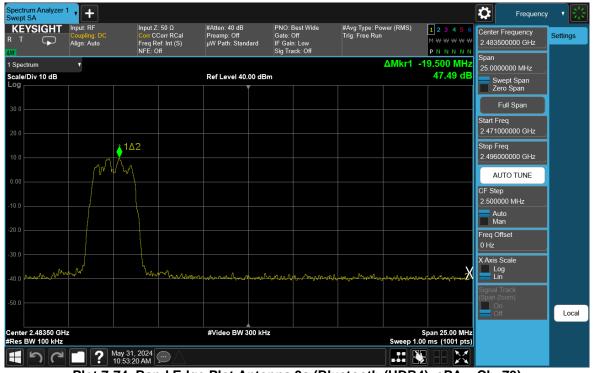


# Antenna 3a



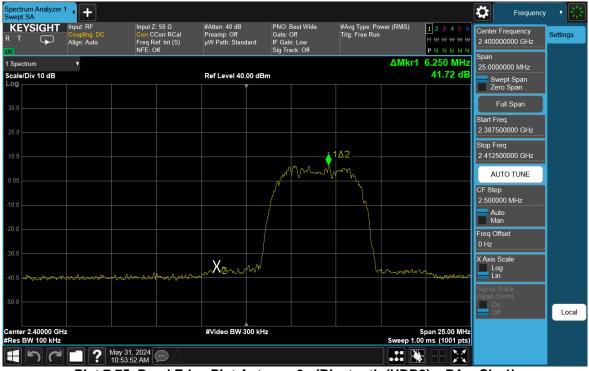
Plot 7-73. Band Edge Plot Antenna 3a (Bluetooth (HDR4), ePA - Ch. 1)



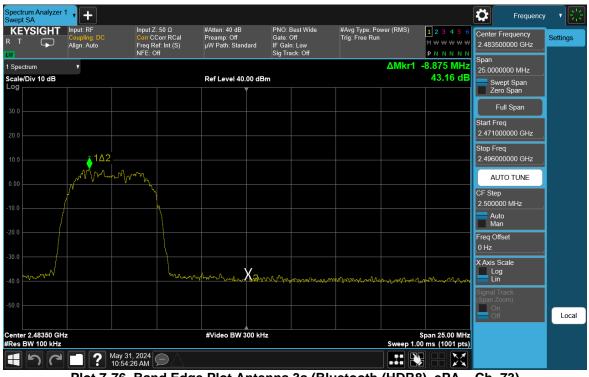
Plot 7-74. Band Edge Plot Antenna 3a (Bluetooth (HDR4), ePA - Ch. 73)

FCC ID: BCGA2995	element	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 65 of 113
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			V 10.6 09/14/2023





Plot 7-75. Band Edge Plot Antenna 3a (Bluetooth (HDR8), ePA – Ch. 1)

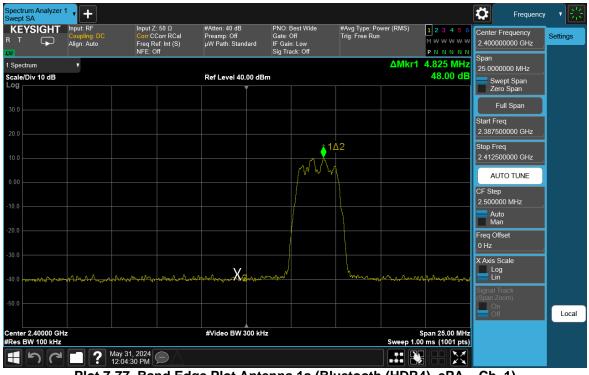


Plot 7-76. Band Edge Plot Antenna 3a (Bluetooth (HDR8), ePA - Ch. 73)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 66 of 113
			V 10.6 09/14/2023



# Antenna 1a



Plot 7-77. Band Edge Plot Antenna 1a (Bluetooth (HDR4), ePA - Ch. 1)

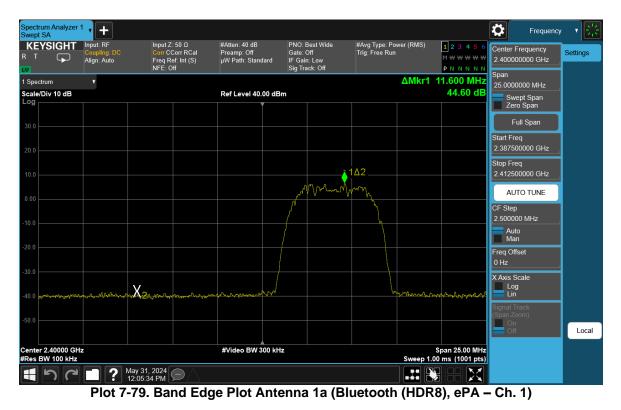


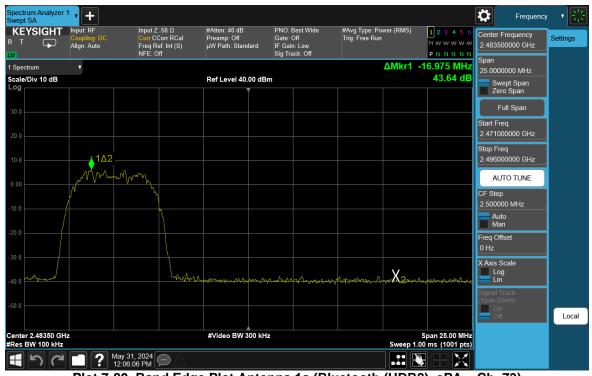
Plot 7-78. Band Edge Plot Antenna 1a (Bluetooth (HDR4), ePA – Ch. 73)

FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 67 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	

V 10.6 09/14/2023







Plot 7-80. Band Edge Plot Antenna 1a (Bluetooth (HDR8), ePA – Ch. 73)

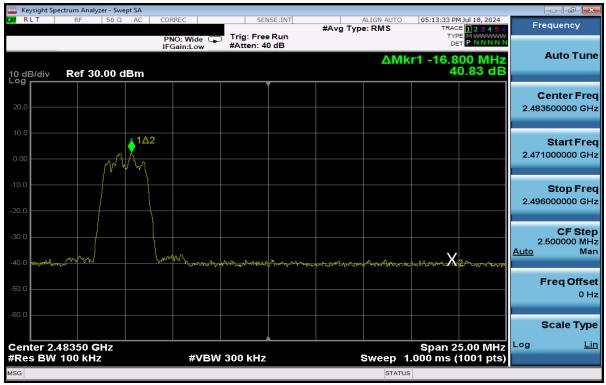
FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 68 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
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# Antenna 4

Keysight Spectrum Analyze										
LXIRLT RF	50 Ω AC (	CORREC	SEN	SE:INT	#Avg Type	ALIGN AUTO e: RMS		M Jul 18, 2024	F	requency
		PNO: Wide 😱 IFGain:Low	Trig: Free #Atten: 40				TYF DE			
10 dB/div Ref 30.	.00 dBm					ΔN	/lkr1 9.5 4	75 MHz 0.94 dB		Auto Tune
20.0										<b>Center Freq</b> 0000000 GHz
0.00					What was	∆2 \			2.38	Start Freq 7500000 GHz
-10.0									2.41	Stop Freq 2500000 GHz
-30.0	man - Mart A + Marting	X	antal and a starting of the starting of the start of the	maparente		www.	-marthe-and	alanlange-o-p.e.v.	Auto	<b>CF Step</b> 2.500000 MHz Man
-50.0										Freq Offset 0 Hz
-60.0										Scale Type
Center 2.40000 GI #Res BW 100 kHz		#\/B\M	300 kHz			Sween 1	Span 2	5.00 MHz 1001 pts)	Log	Lin
MSG		#VDVV	JUU KHZ			Sweep		Toor pis)		
150						STATUS	<u> </u>			

Plot 7-81. Band Edge Plot Antenna 4 (Bluetooth (HDR4), iPA - Ch. 1)



Plot 7-82. Band Edge Plot Antenna 4 (Bluetooth (HDR4), iPA - Ch. 73)

FCC ID: BCGA2995	element 🤤	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 69 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	

V 10.6 09/14/2023



	ctrum Analyzer - Sw									
X RLT	RF 50 Ω	AC	CORREC	SEN	SE:INT	#Avg Typ	ALIGN AUTO e: RMS	TRAC	MJul 18, 2024	Frequency
10 dB/div	Ref 30.00 (		PNO: Wide IFGain:Low	#Atten: 40			ΔΝ	DE //kr1 6.5	75 MHz 6.18 dB	Auto Tun
20.0										Center Fre 2.400000000 G⊦
0.00					ليمر	mm	1 <u>0</u> 2			Start Fre 2.387500000 G⊦
-10.0										<b>Stop Fre</b> 2.412500000 G⊦
-30.0	جواله المحمد	ᠰᢦᡟᡟᢚᠼ᠇ᡂᠰᡄ	ytherografhy governde younged	Xarra	mun			howard	<sup>س</sup> میکاسی، این مورد می	CF Ste 2.500000 M⊢ <u>Auto</u> Ma
-50.0										Freq Offse 0 ⊢
-60.0										Scale Typ
Center 2.4 #Res BW	0000 GHz 100 kHz		#VBW	300 kHz			Sweep_1	Span 2 .000 m <u>s (</u>	5.00 MHz 1001 pts)	Log <u>Li</u>
ISG							STATUS			

Plot 7-83. Band Edge Plot Antenna 4 (Bluetooth (HDR8), iPA - Ch. 1)



#### Plot 7-84. Band Edge Plot Antenna 4 (Bluetooth (HDR8), iPA - Ch. 73)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 70 of 113
			V 10.6 09/14/2023



#### 7.6 Conducted Spurious Emissions §15.247(d); RSS-247 [5.5]

#### Test Overview and Limit

For the following out of band conducted spurious emissions plots, the EUT was set to transmit at maximum power with the largest packet size available. The worst case spurious emissions were found in this configuration.

The limit for out-of-band spurious emissions at the band edge is 20dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 8.5 of KDB 558074 D01 v05r02 and Subclause 11.11 of ANSI C63.10-2020.

#### Test Procedure Used

ANSI C63.10-2020 – Subclause 11.11.3 KDB 558074 D01 v05r02 – Section 8.5 ANSI C63.10-2020 – Subclause 14.5.3 KDB 662911 D01 v02r01 – Section E)3)b)

#### Test Settings

- 1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
- 2. RBW = 1MHz
- 3. VBW = 3MHz
- 4. Detector = Peak
- 5. Trace mode = max hold
- 6. Sweep time = auto couple
- 7. The 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

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 71 of 113
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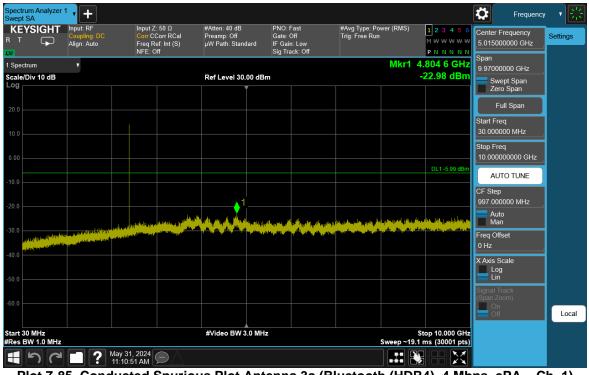
#### Test Notes

- 1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
- 2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
- 3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
- 4. All supported modulation, Antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

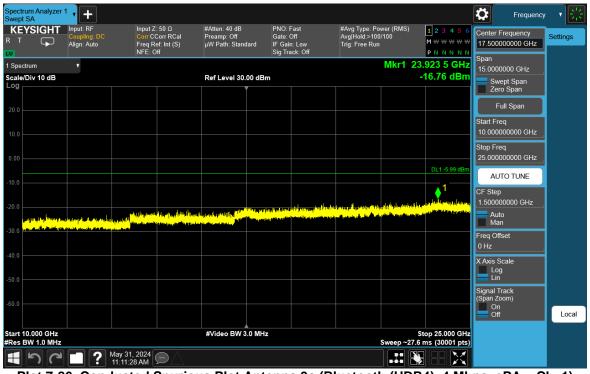
FCC ID: BCGA2995	element	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 72 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
	•	·	V 10.6 09/14/2023



# Antenna 3a



Plot 7-85. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 1)

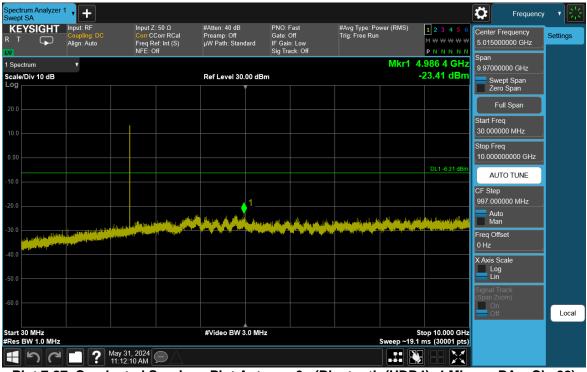


Plot 7-86. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 1)

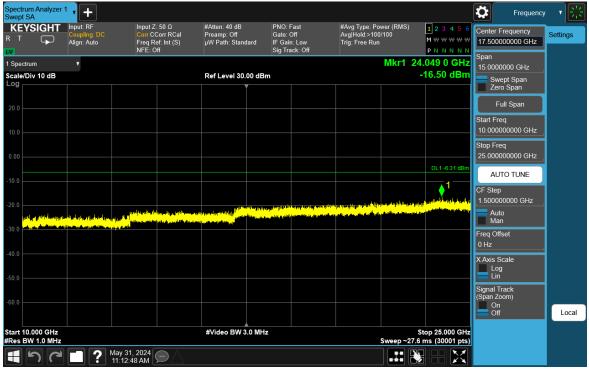
FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 73 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	

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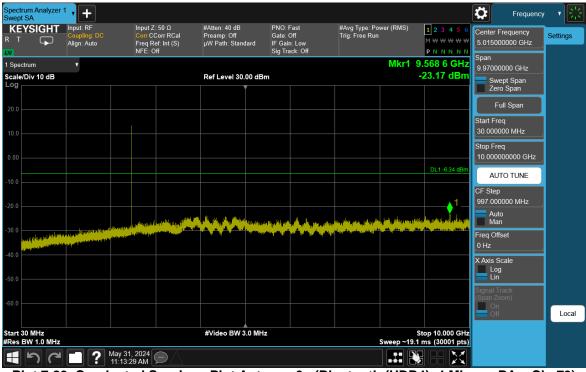
Plot 7-87. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 38)



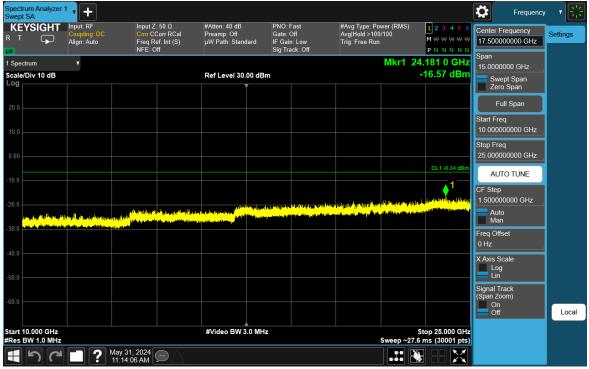
Plot 7-88. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 38)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 74 of 113
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Plot 7-89. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 73)

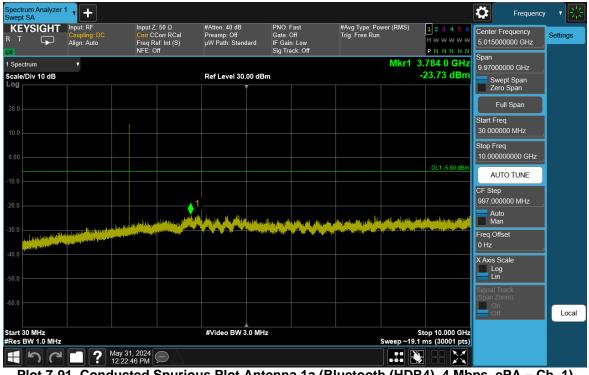


Plot 7-90. Conducted Spurious Plot Antenna 3a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 73)

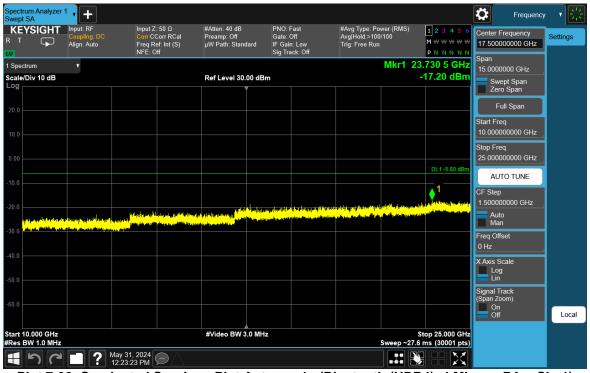
FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 75 of 113
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# Antenna 1a



Plot 7-91. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 1)

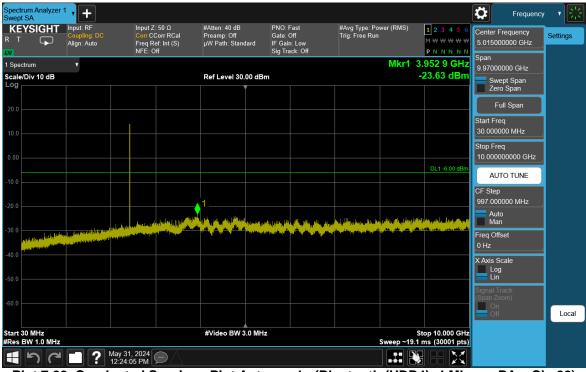


Plot 7-92. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 1)

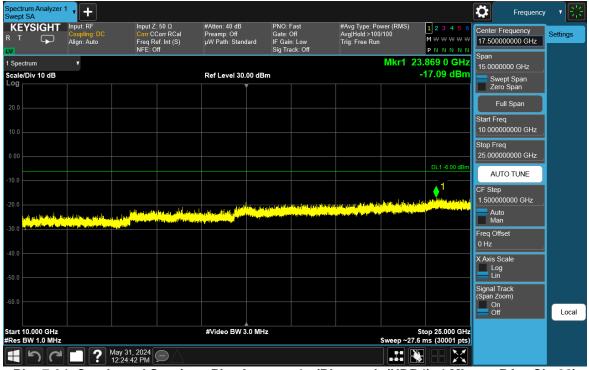
FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 76 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	

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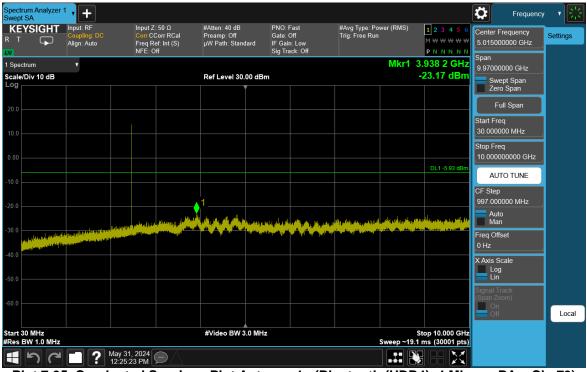
Plot 7-93. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 38)



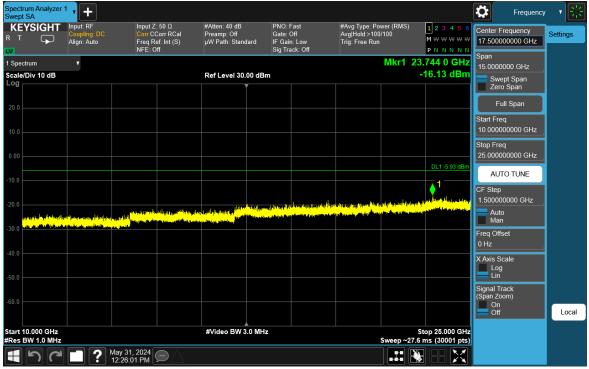
Plot 7-94. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 38)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 77 of 113
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Plot 7-95. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 73)



Plot 7-96. Conducted Spurious Plot Antenna 1a (Bluetooth (HDR4), 4 Mbps, ePA - Ch. 73)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 78 of 113
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# Antenna 4

		Analyzer - Sw												
LXI RLT	RF	50 Ω	AC	COF	RREC		SEN	ISE:INT	#Avg Typ	ALIGN AUT	TRA	M Jul 18, 2024 CE 1 2 3 4 5 6	Fr	equency
				PI IF(	NO: Fast Gain:Low		rig: Free Atten: 30				רד ב			
10 dB/di Log —	iv <b>Re</b> l	26.00 (	dBm								0 Wkr1 6.17 -28	0 9 GHz .38 dBm		Auto Tune
16.0														<b>Center Freq</b> 5000000 GHz
6.00													30	Start Freq 0.000000 MHz
-14.0									1			DL1 -13.56 dBm	10.00	<b>Stop Freq</b> 0000000 GHz
-34.0								ng dan Unantil Te		lla (ni falia la jaja ing i	Schulle, significant dan pang bas Schulle, pang sanatan dan sanatan	ra nya padantari yakati Pristan yakati kata kata ing	997 <u>Auto</u>	CF Step 7.000000 MHz Man
-54.0														Freq Offset 0 Hz
-64.0														Scale Type
Start 3 #Res B	0 MHz 3W 1.0 I	ЛНz			#VI	3W 3.0	) MHz			weep	Stop 10 18.00 ms (3	).000 GHz 30001 pts)	Log	<u>Lin</u>
MSG											TUS			

Plot 7-97. Conducted Spurious Plot Antenna 4 (Bluetooth (HDR4), 4 Mbps, iPA – Ch. 1)



Plot 7-98. Conducted Spurious Plot Antenna 4 (Bluetooth (HDR4), 4 Mbps, iPA – Ch. 1)

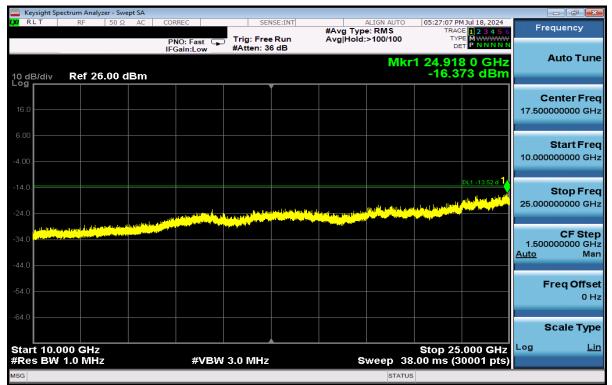
FCC ID: BCGA2995	element	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 79 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	

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										ight Spectrum /	
Frequency	05:26:29 PM Jul 18, 2024 TRACE 1 2 3 4 5 6	ALIGN AUTO	#Avg Ty	SE:INT	SEI	EC	COR	AC	50 Ω	T RF	<mark>(</mark> RL
Auto Tun	DET P NNNN				Trig: Free #Atten: 3	): Fast 😱 iin:Low	PN IFG				
	(r1 6.050 9 GHz -28.68 dBm	Mk						lBm	26.00 d	/div Ref	l0 dB/ -°g ┏
Center Free											
5.015000000 GH											16.0
Start Free											6.00
30.000000 MH											4.00
Stop Free	DL1 -13.52 dBm										14.0
10.000000000 GH			1								24.0 -
CF Ster	a Asaan gaanaa fahahan yy garaga di kaasaa kaasaa	e planetos sonte ferrente	landar berefere	The survey of the loss	The street states	A PRODUCTION OF THE PRODUCTION	and Quert P		e el se		34.0
997.000000 MH <u>Auto</u> Mai	in a little gran a directory and data and a state of a second state of the little second state of the little se				أتصغ فالعالي ومصغاتهم وحا		التاري ويكالك من	Contraction of the local division of the loc			
Freq Offse											44.0
0 H											54.0
Scale Type											64.0
Log <u>Li</u> i	Stop 10.000 GHz 3.00 ms (30001 pts)	Sweep 18			3.0 MHz	#VBW			ЛНz	30 MHz BW 1.0 M	
	3	STATUS									ISG

Plot 7-99. Conducted Spurious Plot Antenna 4 (Bluetooth (HDR4), 4 Mbps, iPA - Ch. 38)



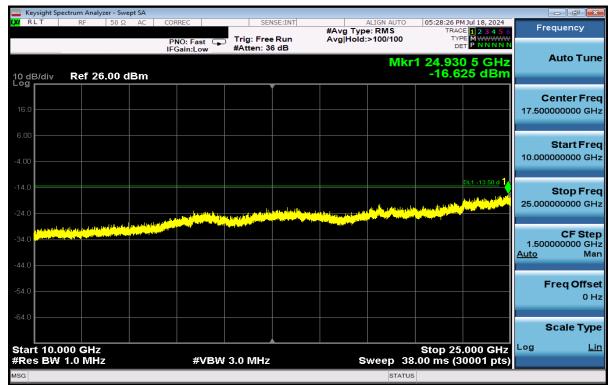
#### Plot 7-100. Conducted Spurious Plot Antenna 4 (Bluetooth (HDR4), 4 Mbps, iPA - Ch. 38)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 80 of 113
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	ectrum Analyzer - Sw									
X/RLT	RF 50 Ω	AC	CORREC	SEI	ISE:INT	#Avg Typ	ALIGN AUTO	TRAC	MJul 18, 2024	Frequency
			PNO: Fast 🕞 IFGain:Low	Trig: Free #Atten: 3			M	TYF DE (r1 6.029	9 3 GHz 85 dBm	Auto Tune
10 dB/div <sup>Log</sup>	Ref 26.00	dBm		, 	1			-27.0	85 GBM	
16.0										Center Free 5.015000000 GHz
6.00										
6.00										Start Fred
-4.00										30.000000 MHz
-14.0									DL1 -13.50 dBm	Stop Fred
-24.0						<u> </u> 1				10.00000000 GHz
-34.0		La Local Maria	distance white such that the	And the state of the	Management of the second	a anna a sa an	a siller to a sure		and a state of the second	CF Step
-44.0			Baselta Dill Diversitä Meneria	No. of the second s				a a fille on a clinic line of filmene ,	الم الثانية ولينا سليم يعطيان	997.000000 MHz <u>Auto</u> Mar
										Freq Offse
-54.0										0 Hz
-64.0										Scale Type
Start 30 N	ЛНz							Stop 10	.000 GHz	Log <u>Lin</u>
#Res BW			#VBW	/ 3.0 MHz		s	weep 18	.00 ms (3	0001 pts)	
ISG							STATUS	5		

Plot 7-101. Conducted Spurious Plot Antenna 4 (Bluetooth (HDR4), 4 Mbps, iPA - Ch. 73)



Plot 7-102. Conducted Spurious Plot Antenna 4 (Bluetooth (HDR4), 4 Mbps, iPA - Ch. 73)

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 81 of 113
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#### 7.7 Radiated Spurious Emissions – Above 1GHz §15.205 §15.209 §15.247(d); 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 maximum power and at the appropriate frequencies. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

# All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-17 per Section 15.209 and RSS-Gen (8.9).

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

Table 7-17. Radiated Limits

#### **Test Procedures Used**

ANSI C63.10-2020 – Subclause 6.6.4.3 KDB 558074 D01 v05r02 – Sections 8.6, 8.7

#### **Test Settings**

#### **Average Field Strength Measurements**

- 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  $\ge 2 \times \text{span/RBW}$ )
- 6. Sweep time = auto
- 7. Trace (RMS) averaging was performed over at least 100 traces

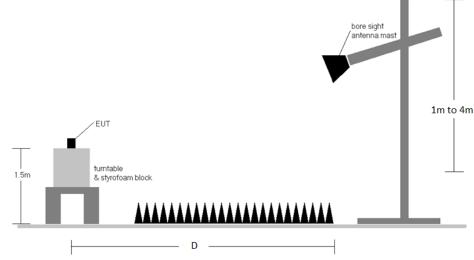
#### Peak Field Strength Measurements

- 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

Test Report S/N: Test Dates: EUT Type:	/lanager	Approved by: Technical Manager	MEASUREMENT REPORT Certification	element	FCC ID: BCGA2995 IC: 579C-A2995
1C2405200018-16-R1.BCG 5/20/2024 - 7/12/2024 Tablet Device	113	Page 82 of 113	EUT Type: Tablet Device		•



#### Test Setup



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

Figure 7-6. Radiated Test Setup >1GHz

#### Test Notes

- The optional test procedures for Antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
- 2. All emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-17.
- 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.
- D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 7. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 8. All supported modulation, Antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 83 of 113
			V 10.6 09/14/2023



#### **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] Preamplifier Gain [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 7.7.1 was calculated using the formula:

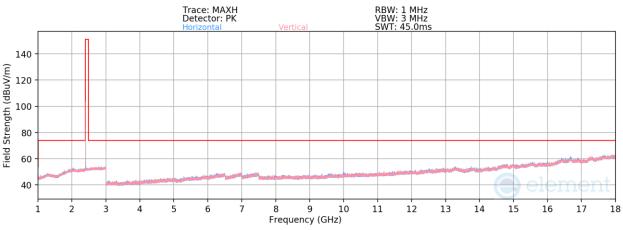
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG		EUT Type: Tablet Device	Page 84 of 113
			V 10.6 09/14/2023



# Radiated Spurious Emission Measurements (1 – 18GHz) §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

# Antenna 3a



Plot 7-103. Radiated Spurious Emissions 1-18GHz Antenna 3a (4Mbps, HDR4, ePA - Ch. 1)

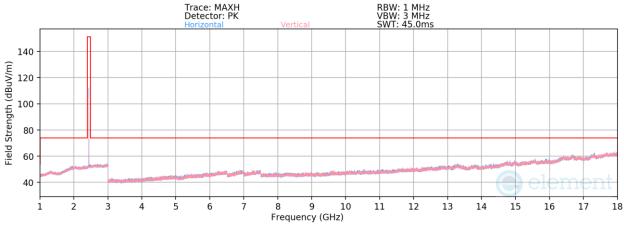
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

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]
4808.00	Avg	н	-	-	-79.03	5.83	33.80	53.98	-20.18
4808.00	Peak	н	-	-	-67.76	5.83	45.07	73.98	-28.91
12020.00	Avg	н	-	-	-82.16	15.00	39.84	53.98	-14.14
12020.00	Peak	н	-	-	-71.12	15.00	50.88	73.98	-23.10

Table 7-18. Radiated Spurious Emission Measurements Antenna 3a

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 85 of 113
		·	V 10.6 09/14/2023





Plot 7-104. Radiated Spurious Emissions 1-18GHz Antenna 3a (4Mbps, HDR4, ePA - Ch. 38)

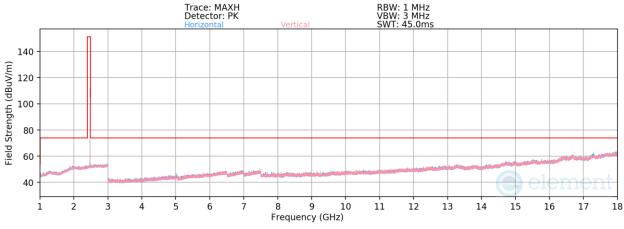
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2441MHz
Channel:	38

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]
4882.00	Avg	н	-	-	-79.46	6.26	33.80	53.98	-20.18
4882.00	Peak	н	-	-	-67.95	6.26	45.31	73.98	-28.67
7323.00	Avg	н	-	-	-79.87	10.10	37.23	53.98	-16.75
7323.00	Peak	н	-	-	-67.92	10.10	49.18	73.98	-24.80
12205.00	Avg	н	-	-	-82.51	15.00	39.49	53.98	-14.49
12205.00	Peak	н	-	-	-71.18	15.00	50.82	73.98	-23.16

Table 7-19. Radiated Spurious Emission Measurements Antenna 3a

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 86 of 113
			V 10.6 09/14/2023





Plot 7-105. Radiated Spurious Emissions 1-18GHz Antenna 3a (4Mbps, HDR4, ePA - Ch. 73)

Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2476MHz
Channel:	73

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]
4952.00	Avg	н	-	-	-79.86	6.52	33.66	53.98	-20.32
4952.00	Peak	н	-	-	-68.29	6.52	45.23	73.98	-28.75
7428.00	Avg	н	-	-	-79.61	10.37	37.76	53.98	-16.22
7428.00	Peak	н	-	-	-68.19	10.37	49.18	73.98	-24.80
12380.00	Avg	н	-	-	-81.98	15.48	40.50	53.98	-13.48
12380.00	Peak	н	-	-	-71.07	15.48	51.41	73.98	-22.57

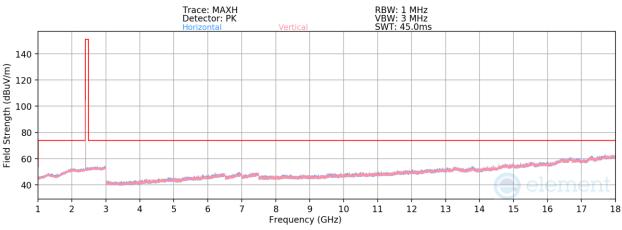
Table 7-20. Radiated Spurious Emission Measurements Antenna 3a

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 87 of 113
			V 10.6 09/14/2023



# Radiated Spurious Emission Measurements (1 – 18GHz) §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

# Antenna 1a



Plot 7-106. Radiated Spurious Emissions 1-18GHz Antenna 1a (4Mbps, HDR4, ePA - Ch. 1)

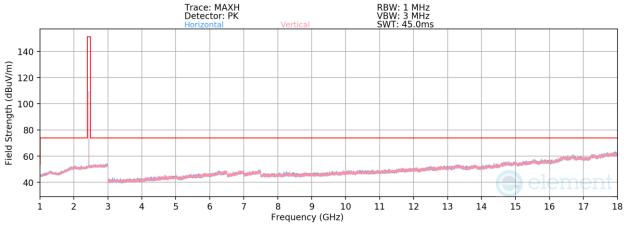
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

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]
4808.00	Avg	н	-	-	-79.09	5.83	33.74	53.98	-20.24
4808.00	Peak	н	-	-	-67.75	5.83	45.08	73.98	-28.90
12020.00	Avg	н	-	-	-82.29	15.11	39.82	53.98	-14.16
12020.00	Peak	н	-	-	-71.32	15.11	50.79	73.98	-23.19

Table 7-21. Radiated Spurious Emission Measurements Antenna 1a

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 88 of 113
			V 10.6 09/14/2023





Plot 7-107. Radiated Spurious Emissions 1-18GHz Antenna 1a (4Mbps, HDR4, ePA - Ch. 38)

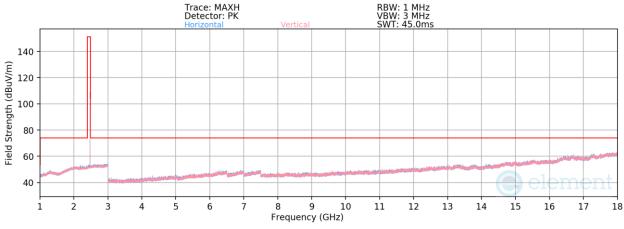
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2441MHz
Channel:	38

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]
4882.00	Avg	н	-	-	-79.55	6.26	33.71	53.98	-20.27
4882.00	Peak	н	-	-	-67.95	6.26	45.31	73.98	-28.67
7323.00	Avg	н	-	-	-79.99	10.10	37.11	53.98	-16.87
7323.00	Peak	н	-	-	-68.33	10.10	48.77	73.98	-25.21
12205.00	Avg	н	-	-	-82.51	15.00	39.49	53.98	-14.49
12205.00	Peak	н	-	-	-71.97	15.00	50.03	73.98	-23.95

Table 7-22. Radiated Spurious Emission Measurements Antenna 1a

FCC ID: BCGA2995	element	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 89 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
	-		V 10.6 09/14/2023





Plot 7-108. Radiated Spurious Emissions 1-18GHz Antenna 1a (4Mbps, HDR4, ePA - Ch. 73)

IDR4
Mbps
PA
Meters
476MHz
3

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]
4952.00	Avg	н	-	-	-79.95	6.46	33.51	53.98	-20.47
4952.00	Peak	н	-	-	-68.36	6.46	45.10	73.98	-28.88
7428.00	Avg	н	-	-	-79.24	9.90	37.66	53.98	-16.32
7428.00	Peak	н	-	-	-67.06	9.90	49.84	73.98	-24.14
12380.00	Avg	н	-	-	-81.65	15.01	40.36	53.98	-13.62
12380.00	Peak	н	-	-	-70.64	15.01	51.37	73.98	-22.61

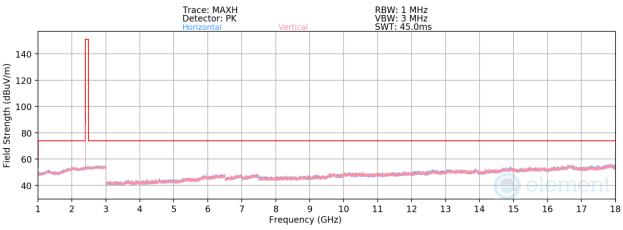
Table 7-23. Radiated Spurious Emission Measurements Antenna 1a

FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 90 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
			V 10.6 09/14/2023



# Radiated Spurious Emission Measurements (1 – 18GHz) §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

# Antenna 4



Plot 7-109. Radiated Spurious Emissions 1-18GHz Antenna 4 (4Mbps, HDR4, iPA - Ch. 1)

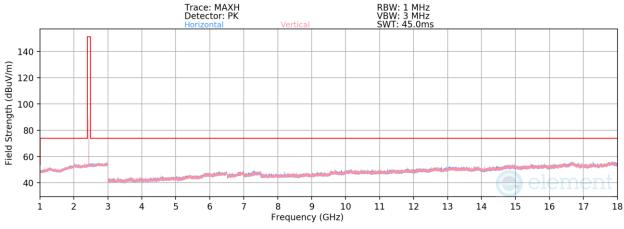
R4
ops
eters
4MHz

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]
4808.00	Avg	н	-	-	-78.35	4.50	33.15	53.98	-20.83
4808.00	Peak	н	-	-	-66.42	4.50	45.08	73.98	-28.90
12020.00	Avg	н	-	-	-81.53	13.35	38.82	53.98	-15.16
12020.00	Peak	н	-	-	-70.95	13.35	49.40	73.98	-24.58

Table 7-24. Radiated Spurious Emission Measurements Antenna 4

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 91 of 113
			V 10.6 09/14/2023





Plot 7-110. Radiated Spurious Emissions 1-18GHz Antenna 4 (4Mbps, HDR4, iPA - Ch. 38)

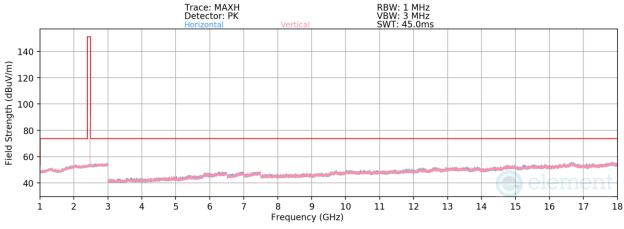
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	iPA
Distance of Measurements:	3 Meters
Operating Frequency:	2441MHz
Channel:	38
Power Scheme Distance of Measurements: Operating Frequency:	iPA 3 Meters 2441MHz

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]
4882.00	Avg	н	-	-	-78.38	4.78	33.40	53.98	-20.58
4882.00	Peak	н	-	-	-67.00	4.78	44.78	73.98	-29.20
7323.00	Avg	н	-	-	-79.59	9.55	36.96	53.98	-17.02
7323.00	Peak	н	-	-	-68.19	9.55	48.36	73.98	-25.62
12205.00	Avg	н	-	-	-81.41	14.51	40.10	53.98	-13.88
12205.00	Peak	н	-	-	-70.67	14.51	50.84	73.98	-23.14

Table 7-25. Radiated Spurious Emission Measurements Antenna 4

FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 92 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
			V 10.6 09/14/2023





Plot 7-111. Radiated Spurious Emissions 1-18GHz Antenna 4 (4Mbps, HDR4, iPA - Ch. 73)

<u> </u>
s
ers
MHz

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]
4952.00	Avg	н	-	-	-78.79	4.99	33.20	53.98	-20.78
4952.00	Peak	н	-	-	-66.64	4.99	45.35	73.98	-28.63
7428.00	Avg	н	-	-	-79.67	9.48	36.81	53.98	-17.17
7428.00	Peak	н	-	-	-67.95	9.48	48.53	73.98	-25.45
12380.00	Avg	н	-	-	-82.10	14.31	39.21	53.98	-14.77
12380.00	Peak	Н	-	-	-71.52	14.31	49.79	73.98	-24.19

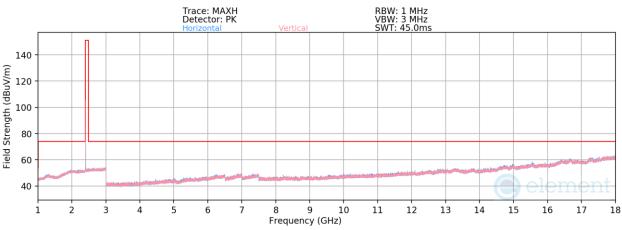
Table 7-26. Radiated Spurious Emission Measurements Antenna 4

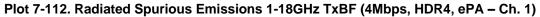
FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 93 of 113
			V 10.6 09/14/2023



# Radiated Spurious Emission Measurements (Above 1GHz) §15.205 §15.209 §15.247(d); RSS-Gen [8.9]

# TxBF





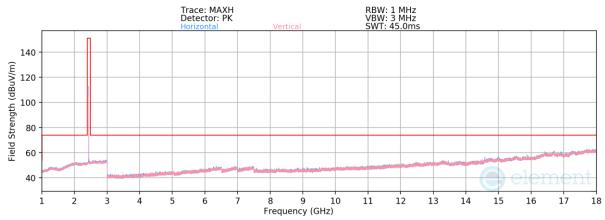
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

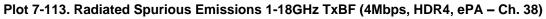
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
4808.00	Avg	V	-	-	-79.11	5.60	33.49	53.98	-20.49
4808.00	Peak	V	-	-	-67.55	5.60	45.05	73.98	-28.93
12020.00	Avg	V	-	-	-82.30	15.11	39.81	53.98	-14.17
12020.00	Peak	V	-	-	-71.64	15.11	50.47	73.98	-23.51

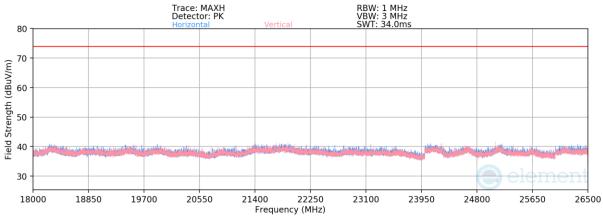
Table 7-27. Radiated Spurious Emission Measurements TxBF

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 94 of 113
			V 10.6 09/14/2023









Plot 7-114. Radiated Spurious Emissions Above 18GHz TxBF (4Mbps, HDR4, ePA - Ch. 38)

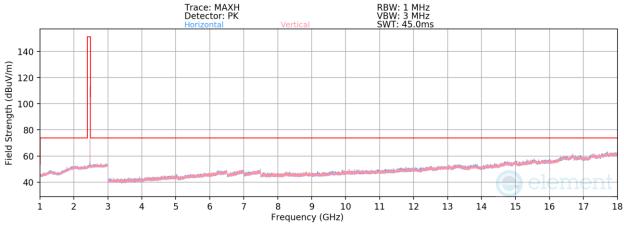
Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	2441MHz
Channel:	38

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]
4882.00	Avg	V	-	-	-79.64	6.26	33.62	53.98	-20.36
4882.00	Peak	V	-	-	-67.82	6.26	45.44	73.98	-28.54
7323.00	Avg	V	-	-	-79.81	10.10	37.29	53.98	-16.69
7323.00	Peak	V	-	-	-67.94	10.10	49.16	73.98	-24.82
12205.00	Avg	V	-	-	-82.22	14.83	39.61	53.98	-14.37
12205.00	Peak	V	-	-	-71.34	14.83	50.49	73.98	-23.49

Table 7-28. Radiated Spurious Emission Measurements TxBF

FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 95 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
			V 10.6 09/14/2023





Plot 7-115. Radiated Spurious Emissions 1-18GHz TxBF (4Mbps, HDR4, ePA – Ch. 73)

R4
ops
۱
eters
6MHz

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]
4952.00	Avg	V	-	-	-79.91	6.52	33.61	53.98	-20.37
4952.00	Peak	V	-	-	-68.81	6.52	44.71	73.98	-29.27
7428.00	Avg	V	-	-	-79.31	9.90	37.59	53.98	-16.39
7428.00	Peak	V	-	-	-67.55	9.90	49.35	73.98	-24.63
12380.00	Avg	V	-	-	-81.59	15.01	40.42	53.98	-13.56
12380.00	Peak	V	-	-	-69.96	15.01	52.05	73.98	-21.93

Table 7-29. Radiated Spurious Emission Measurements TxBF

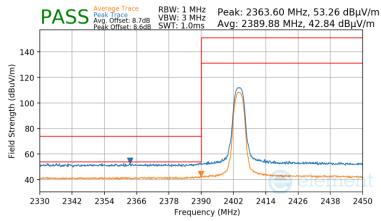
FCC ID: BCGA2995	element 🕞	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 96 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	
	•		V 10.6 09/14/2023



# 7.7.1 Radiated Restricted Band Edge Measurements §15.205 §15.209; RSS-Gen [8.9]

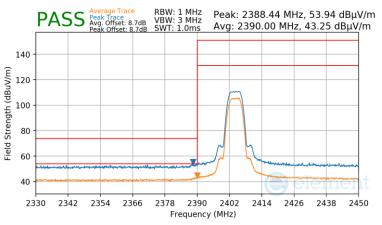
### Antenna 3a

Bluetooth Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1



Plot 7-116. Radiated Restricted Lower Band Edge Measurement Antenna 3a

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

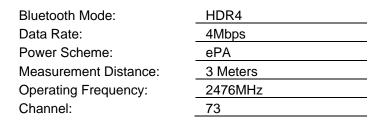


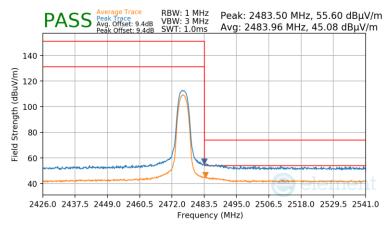
Plot 7-117. Radiated Restricted Lower Band Edge Measurement Antenna 3a

FCC ID: BCGA2995	element MEASUREMENT REPORT		Approved by:
IC: 579C-A2995	Certification		Technical Manager
Test Report S/N:	<b>Test Dates:</b>	EUT Type:	Page 97 of 113
1C2405200018-16-R1.BCG	5/20/2024 - 7/12/2024	Tablet Device	

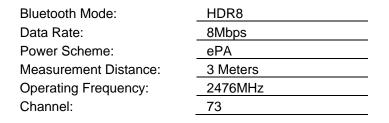
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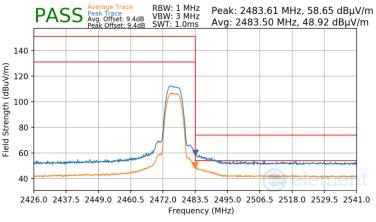






Plot 7-118. Radiated Restricted Upper Band Edge Measurement Antenna 3a



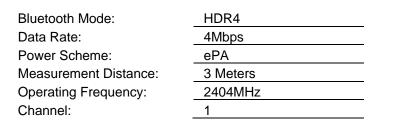


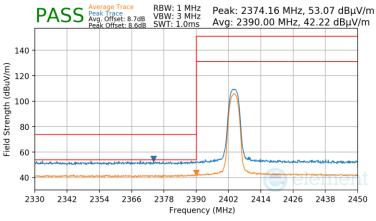
Plot 7-119. Radiated Restricted Upper Band Edge Measurement Antenna 3a

FCC ID: BCGA2995 IC: 579C-A2995	element MEASUREMENT REPORT Certification		Approved by: Technical Manager
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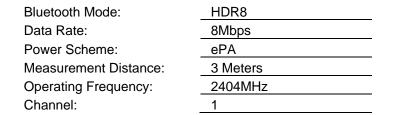


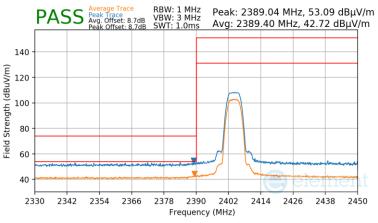
# Antenna 1a





Plot 7-120. Radiated Restricted Lower Band Edge Measurement Antenna 1a

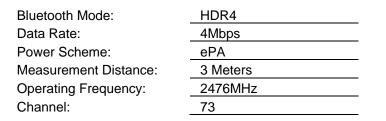


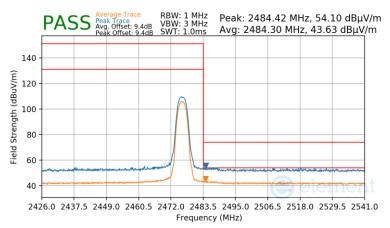


Plot 7-121. Radiated Restricted Lower Band Edge Measurement Antenna 1a

FCC ID: BCGA2995	element	MEASUREMENT REPORT	Approved by:
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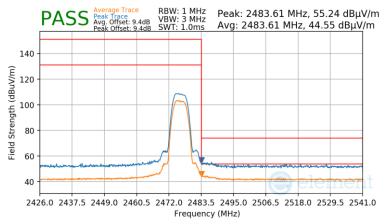






Plot 7-122. Radiated Restricted Upper Band Edge Measurement Antenna 1a

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73

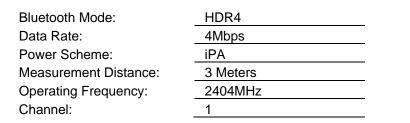


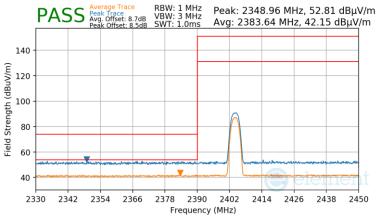
Plot 7-123. Radiated Restricted Upper Band Edge Measurement Antenna 1a

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
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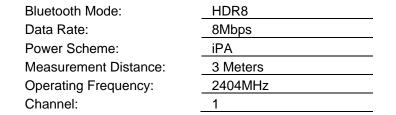


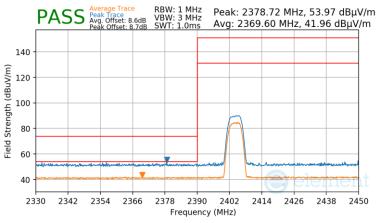
### Antenna 4





Plot 7-124. Radiated Restricted Lower Band Edge Measurement Antenna 4

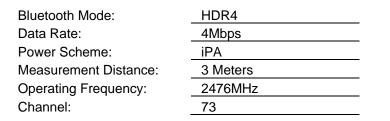


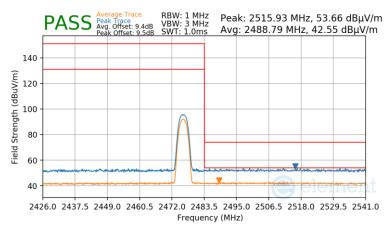


Plot 7-125. Radiated Restricted Lower Band Edge Measurement Antenna 4

FCC ID: BCGA2995	element	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
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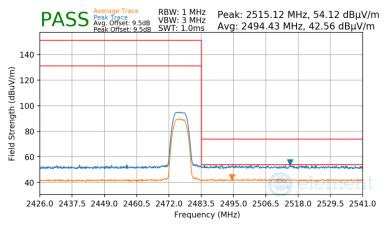






Plot 7-126. Radiated Restricted Upper Band Edge Measurement Antenna 4

Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	iPA
Measurement Distance:	3 Meters
Operating Frequency:	2476MHz
Channel:	73



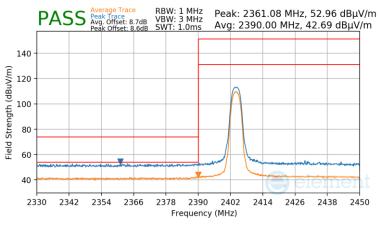
Plot 7-127. Radiated Restricted Upper Band Edge Measurement Antenna 4

FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 102 of 113
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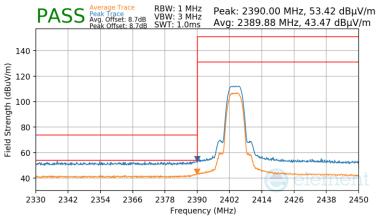
### TxBF

Bluetooth Mode:	HDR4	
Data Rate:	4Mbps	
Power Scheme:	ePA	
Measurement Distance:	3 Meters	
Operating Frequency:	2404MHz	
Channel:	1	



Plot 7-128. Radiated Restricted Lower Band Edge Measurement TxBF

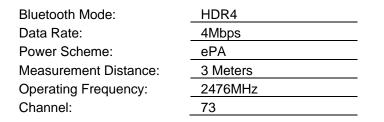
Bluetooth Mode:	HDR8
Data Rate:	8Mbps
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	2404MHz
Channel:	1

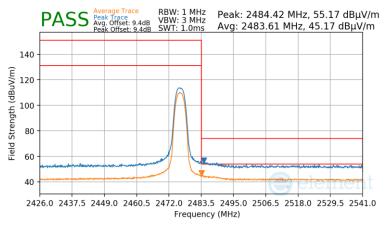


Plot 7-129. Radiated Restricted Lower Band Edge Measurement TxBF

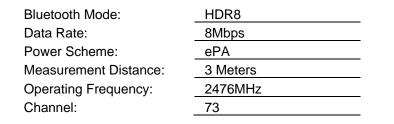
FCC ID: BCGA2995 IC: 579C-A2995	element	MEASUREMENT REPORT Certification	Approved by: Technical Manager
Test Report S/N: 1C2405200018-16-R1.BCG	<b>Test Dates:</b> 5/20/2024 - 7/12/2024	EUT Type: Tablet Device	Page 103 of 113
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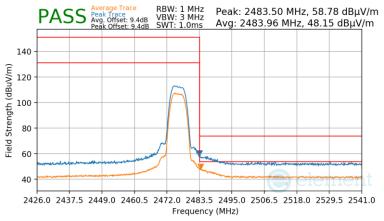






Plot 7-130. Radiated Restricted Upper Band Edge Measurement TxBF





Plot 7-131. Radiated Restricted Upper Band Edge Measurement TxBF

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### 7.8 Radiated Spurious Emissions – Below 1GHz §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 maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

# All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-30 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 7-30. Radiated Limits

### **Test Procedures Used**

ANSI C63.10-2020

### **Test Settings**

### Quasi-Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

### Peak Field Strength Measurements

- 1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
- 2. RBW = 120kHz (for emissions from 30MHz 1GHz)
- 3. VBW = 300kHz
- 4. Detector = peak
- 5. Sweep time = auto couple
- 6. Trace mode = max hold
- 7. Trace was allowed to stabilize

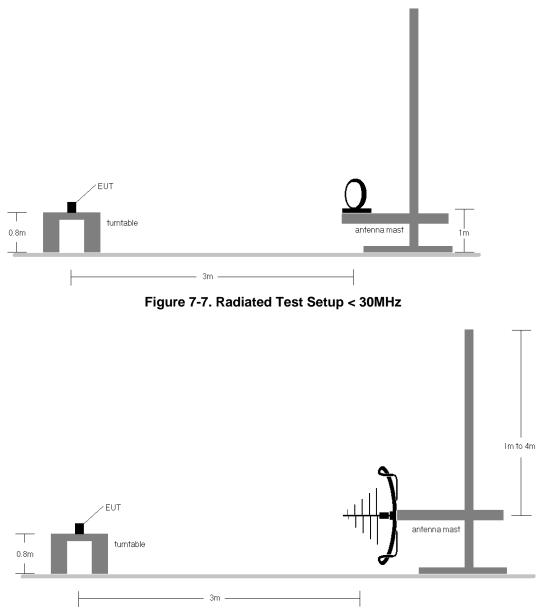
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IC: 579C-A2995		Certification	Technical Manager
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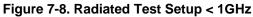
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### Test Setup

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





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### Test Notes

- 1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-30.
- The broadband receive Antenna is manipulated through vertical and horizontal polarizations during the tests. The EUT is manipulated through three orthogonal planes. For below 30MHz the loop Antenna was positioned in 3 orthogonal planes (X front, Y side, Z top) to determine the orientation resulting in the worst case emissions.
- 3. This unit was tested with its standard battery.
- 4. The spectrum is investigated using a peak detector and final measurements are recorded using CISPR quasi peak detector on emissions that were within 6dB of the limit.
- 5. Emissions were measured at a 3 meter test distance.
- 6. Emissions are investigated while operating on the center channel of the mode, band, and modulation that produced the worst case results during the transmitter spurious emissions testing.
- 7. No spurious emissions were detected within 20dB of the limit below 30MHz.
- 8. The results recorded using the broadband Antenna is known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy. The VSWR for the measurement Antenna was found to be less than 2:1.
- 9. All supported modulation, Antenna (including TxBF mode) and power schemes have been tested on the unit and only worst case configuration is reported.
- 10. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger

### **Sample Calculations**

### **Determining Spurious Emissions Levels**

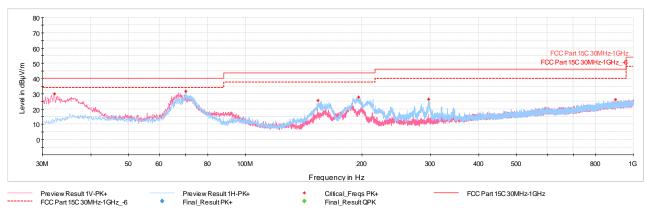
- Field Strength Level [dBμV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB] Preamplifier Gain [dB]
- Margin [dB] = Field Strength Level  $[dB\mu V/m]$  Limit  $[dB\mu V/m]$

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## Radiated Spurious Emissions Measurements (Below 1GHz) §15.209; RSS-Gen [8.9]

### TxBF



Plot 7-132. Radiated Spurious Emissions Below 1GHz TxBF (4Mbps, ePA – Ch.38 with AC/DC Adapter and USB-C Cable)

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]
32.18	Max Peak	V	100	250	-61.00	-15.96	30.04	40.00	-9.96
70.26	Max Peak	Н	200	236	-57.01	-18.46	31.53	40.00	-8.47
154.06	Max Peak	Н	100	184	-62.05	-19.33	25.62	43.52	-17.90
196.06	Max Peak	Н	100	189	-63.23	-16.00	27.77	43.52	-15.75
296.56	Max Peak	Н	100	245	-66.48	-13.97	26.55	46.02	-19.47
899.85	Max Peak	Н	100	2	-78.61	-2.25	26.14	46.02	-19.88

Table 7-31. Radiated Spurious Emissions Below 1GHz TxBF (4Mbps, ePA – Ch.38 with AC/DC Adapter and USB-C Cable)

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### 7.9 AC Line-Conducted Emissions Measurement §15.207; RSS-Gen [8.8]

### Test Overview and Limit

All AC line conducted spurious emissions are measured with a receiver connected to a grounded LISN while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for AC Line conducted spurious emissions. Only the conducted emissions of the configuration that produced the worst case emissions are reported in this section.

### All conducted emissions must not exceed the limits shown in the table below, per Section 15.207 and RSS-Gen (8.8).

Frequency of emission (MHz)	Conducted Limit (dBµV)		
	Quasi-peak	Average	
0.15 – 0.5	66 to 56*	56 to 46*	
0.5 – 5	56	46	
5 - 30	60	50	

Table 7-32. Conducted Limits

\*Decreases with the logarithm of the frequency.

### **Test Procedures Used**

ANSI C63.10-2020 - Subclause 6.2

#### **Test Settings**

### **Quasi-Peak Measurements**

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = quasi-peak
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

#### Average Measurements

- 1. Analyzer center frequency was set to the frequency of the spurious emission of interest
- 2. RBW = 9kHz (for emissions from 150kHz 30MHz)
- 3. Detector = RMS
- 4. Sweep time = auto couple
- 5. Trace mode = max hold
- 6. Trace was allowed to stabilize

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### Test Setup

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

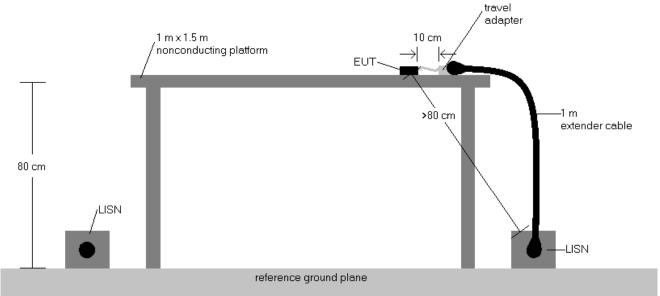


Figure 7-9. Test Instrument & Measurement Setup

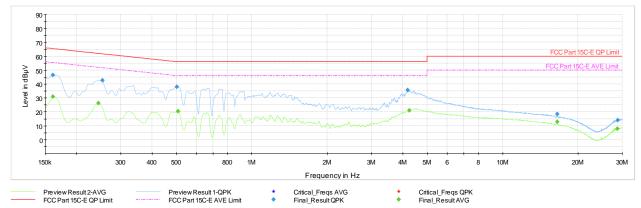
### Test Notes

- 1. All modes of operation were investigated and the worst-case emissions are reported. The emissions found were not affected by the choice of channel used during testing.
- 2. Both configurations below were investigated, and the worst case has been reported.
  - a. EUT powered by AC/DC adaptor via USB-C cable with wire charger
  - b. EUT powered by host PC via USB-C cable with wire charger
- 3. The limit for an intentional radiator from 150kHz to 30MHz are specified in Part 15.207 and RSS-Gen(8.8).
- 4. Corr. (dB) = Cable loss (dB) + LISN insertion factor (dB)
- 5. QP/AV Level ( $dB\mu V$ ) = QP/AV Analyzer/Receiver Level ( $dB\mu V$ ) + Correction Factor (dB)
- 6. Margin (dB) = QP/AV Level (dB $\mu$ V) QP/AV Limit (dB $\mu$ V)
- 7. Traces shown in plot are made using quasi peak and average detectors.
- 8. Deviations to the Specifications: None.

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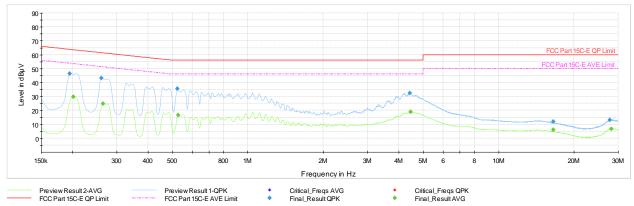
Plot 7-133. AC Line Conducted Plot with Bluetooth HDR TxBF (L1, 4Mbps ePA - Ch.38 with host PC and USB-C Cable)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dBµV]	Marqin [dB]	Line	PE
0.161	FINAL	—	31.01	55.40	-24.39	L1	GND
0.161	FINAL	46.6	—	65.40	-18.85	L1	GND
0.245	FINAL	—	26.21	51.94	-25.73	L1	GND
0.254	FINAL	42.7	_	61.64	-18.97	L1	GND
0.503	FINAL	38.0	_	56.00	-17.97	L1	GND
0.508	FINAL	—	20.49	46.00	-25.51	L1	GND
4.187	FINAL	35.6	_	56.00	-20.36	L1	GND
4.250	FINAL	—	21.11	46.00	-24.89	L1	GND
16.530	FINAL	18.3	—	60.00	-41.68	L1	GND
16.530	FINAL	—	12.81	50.00	-37.19	L1	GND
28.673	FINAL	—	7.69	50.00	-42.31	L1	GND
28.741	FINAL	14.1	_	60.00	-45.95	L1	GND

Table 7-33. AC Line Conducted Data with Bluetooth HDR TxBF (L1, 4Mbps ePA - Ch.38 with host PC and USB-C Cable)

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Plot 7-134. AC Line Conducted Plot with Bluetooth HDR TxBF (N, 4Mbps ePA - Ch.38 with host PC and USB-C Cable)

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Averaqe [dBµV]	Limit [dB <b>µ</b> ∨]	Marqin [dB]	Line	PE
0.195	FINAL	46.4	—	63.82	-17.43	N	GND
0.202	FINAL	—	29.68	53.54	-23.86	N	GND
0.260	FINAL	43.3	_	61.42	-18.16	N	GND
0.265	FINAL	—	24.76	51.28	-26.52	N	GND
0.524	FINAL	35.7	_	56.00	-20.34	N	GND
0.528	FINAL	—	16.64	46.00	-29.36	N	GND
4.427	FINAL	32.3	_	56.00	-23.71	N	GND
4.466	FINAL	—	18.87	46.00	-27.13	N	GND
16.519	FINAL	12.0	_	60.00	-48.01	N	GND
16.521	FINAL	—	6.13	50.00	-7.00	N	GND
27.699	FINAL	13.0	—	60.00	-47.02	N	GND
28.122	FINAL	—	6.78	50.00	-43.22	N	GND

Table 7-34. AC Line Conducted Data with Bluetooth HDR TxBF (N, 4Mbps ePA - Ch.38 with host PC and USB-C Cable)

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#### CONCLUSION 8.0

The data collected relate only the item(s) tested and show that the Apple Tablet Device FCC ID: BCGA2995 and IC: 579C-A2995 is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2995	element 🤤	MEASUREMENT REPORT	Approved by:
IC: 579C-A2995		Certification	Technical Manager
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