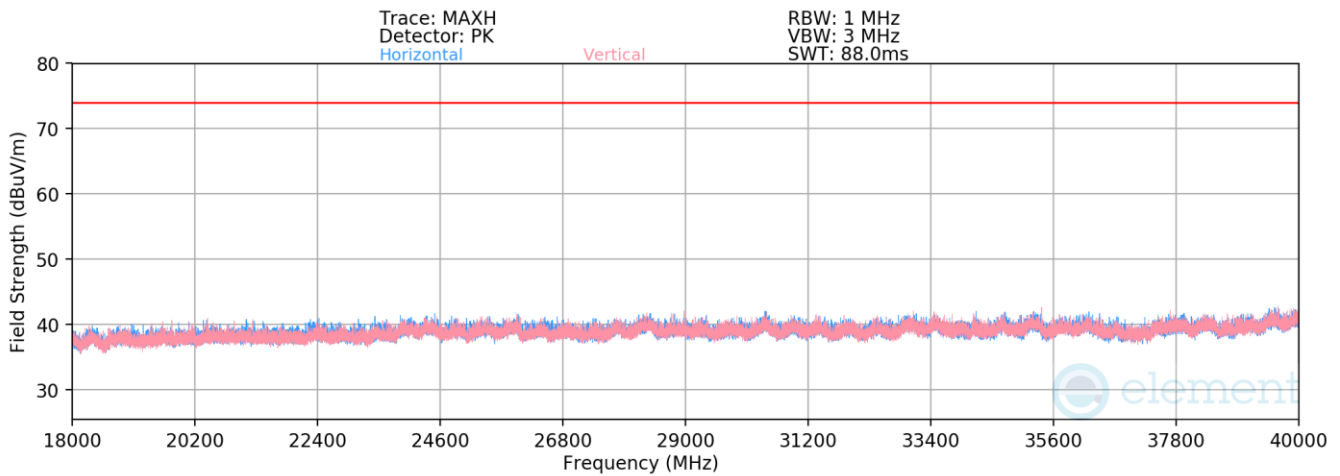


Plot 7-91. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA – 5245MHz)



Plot 7-92. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII BDR ePA – 5245MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

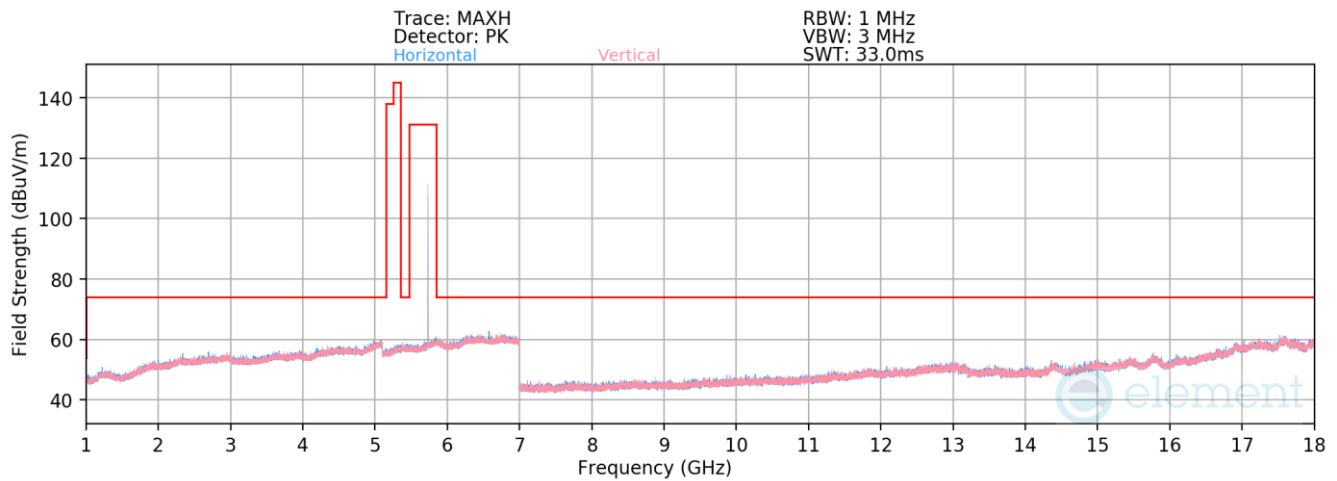
Operating Frequency: 5245MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
	10490.00	Peak	V	-	-	-72.02	12.89	47.86	68.23	-20.37
*	15735.00	Average	H	-	-	-84.02	21.11	44.09	53.98	-9.89
*	15735.00	Peak	H	-	-	-73.47	21.11	54.64	73.98	-19.34

Table 7-35. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device		Page 96 of 137

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Plot 7-93. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA – 5733MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

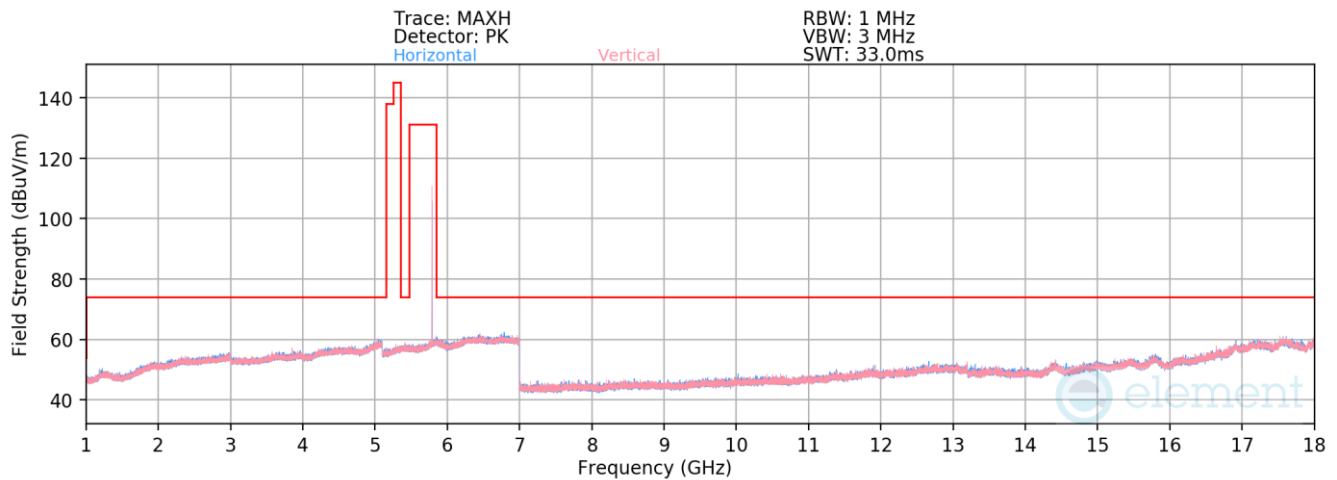
Operating Frequency: 5733MHz

	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]
*	11466.00	Average	H	-	-	-83.01	14.07	38.06	53.98	-15.92
*	11466.00	Peak	H	-	-	-71.60	14.12	49.53	73.98	-24.45
	17199.00	Peak	H	-	-	-73.43	26.41	59.98	68.23	-8.25

Table 7-36. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 97 of 137

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Plot 7-94. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA – 5789MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

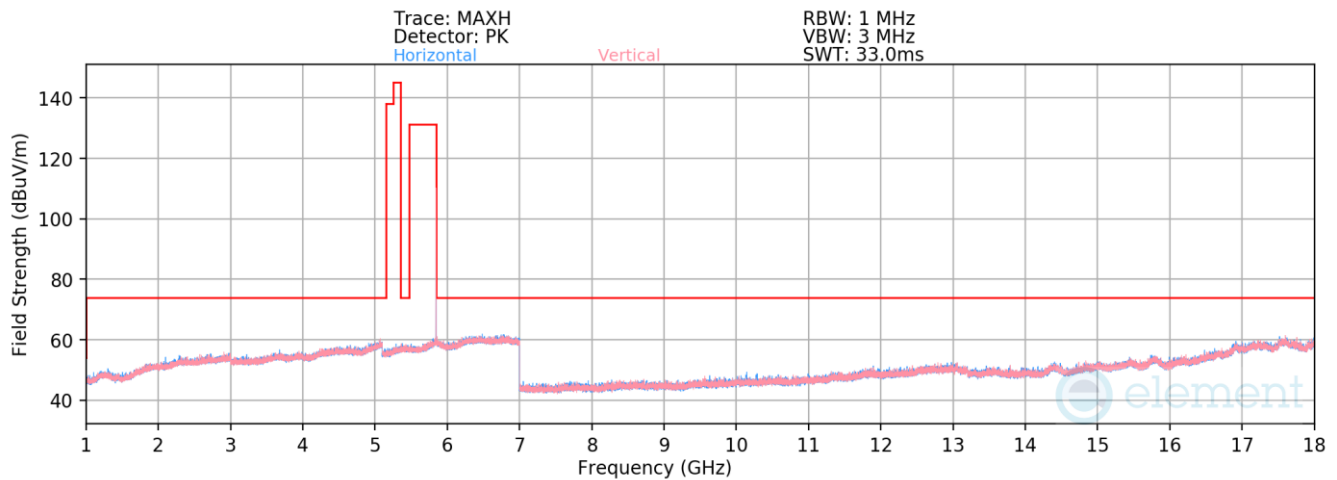
Operating Frequency: 5789MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
*	11578.00	Average	V	-	-	-83.35	14.01	37.66	53.98	-16.32
*	11578.00	Peak	V	-	-	-72.55	14.34	48.79	73.98	-25.19
	17367.00	Peak	H	-	-	-74.82	27.64	59.82	68.23	-8.41

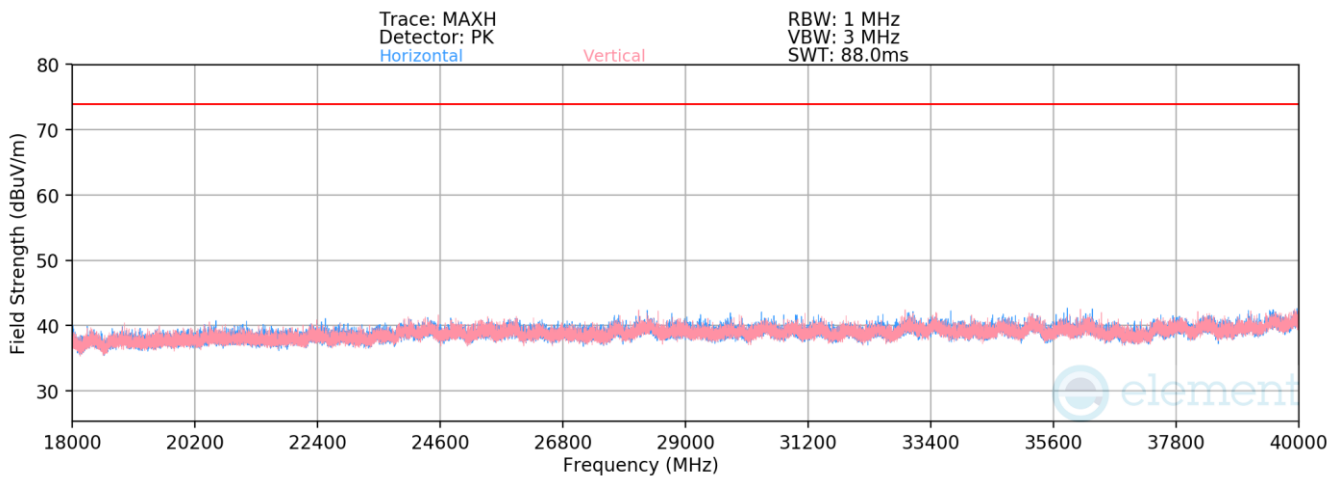
Table 7-37. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 98 of 137

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Plot 7-95. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII BDR ePA – 5844MHz)



Plot 7-96. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII BDR ePA – 5844MHz)

Mode: BDR

Data Rate: 1Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

Operating Frequency: 5844MHz

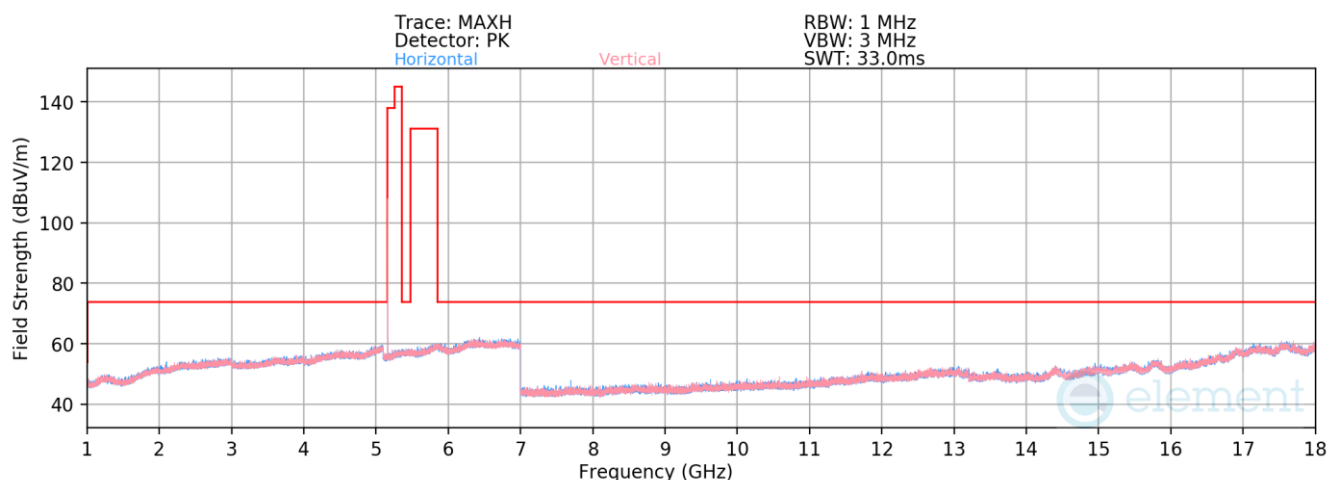
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
*	11688.00	Average	H	-	-	-83.18	14.10	37.92	53.98	-16.06
*	11688.00	Peak	H	-	-	-71.50	14.05	49.55	73.98	-24.43
*	17532.00	Peak	V	-	-	-73.78	27.81	61.03	68.23	-7.20

Table 7-38. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device		Page 99 of 137

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Plot 7-97. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA - 5162MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

Operating Frequency: 5162MHz

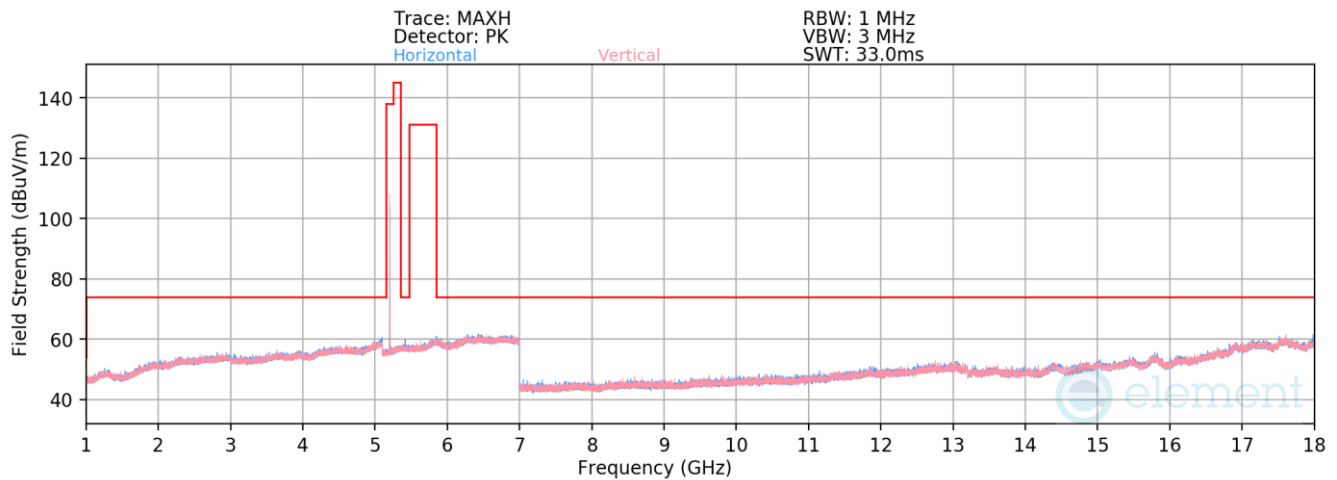
	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
	10324.00	Peak	H	-	-	-71.07	12.49	48.42	68.23	-19.81
*	15486.00	Average	H	-	-	-84.58	20.20	42.62	53.98	-11.36
*	15486.00	Peak	H	-	-	-72.98	20.25	54.27	73.98	-19.71

Table 7-39. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 100 of 137

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Plot 7-98. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA - 5204MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

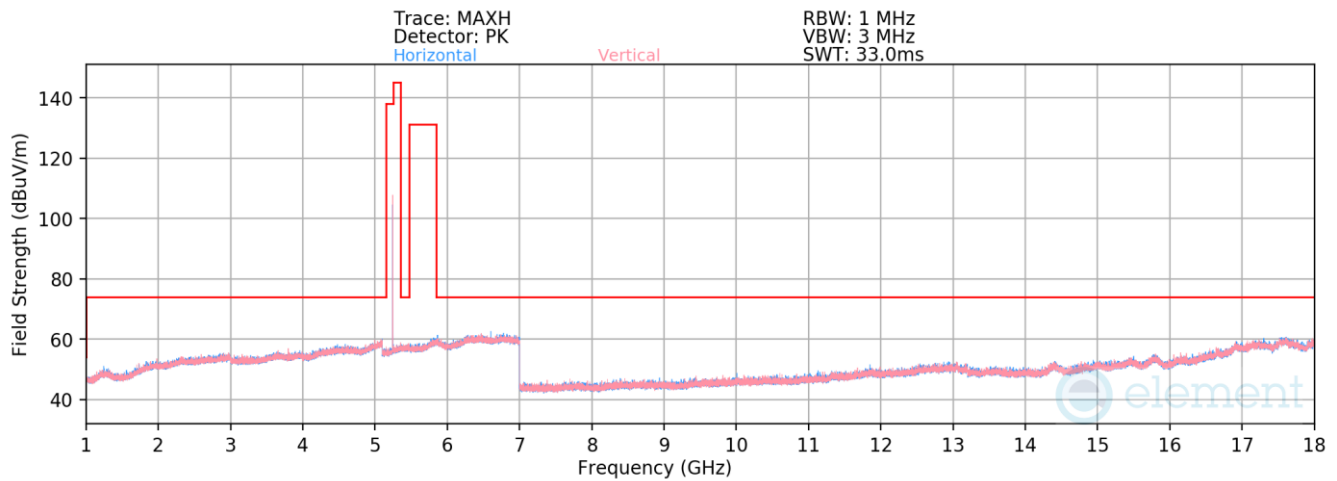
Operating Frequency: 5204MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
	10408.00	Peak	H	-	-	-71.95	12.71	47.76	68.23	-20.47
*	15612.00	Average	V	-	-	-84.83	19.88	42.05	53.98	-11.93
*	15612.00	Peak	V	-	-	-73.62	19.87	53.25	73.98	-20.73

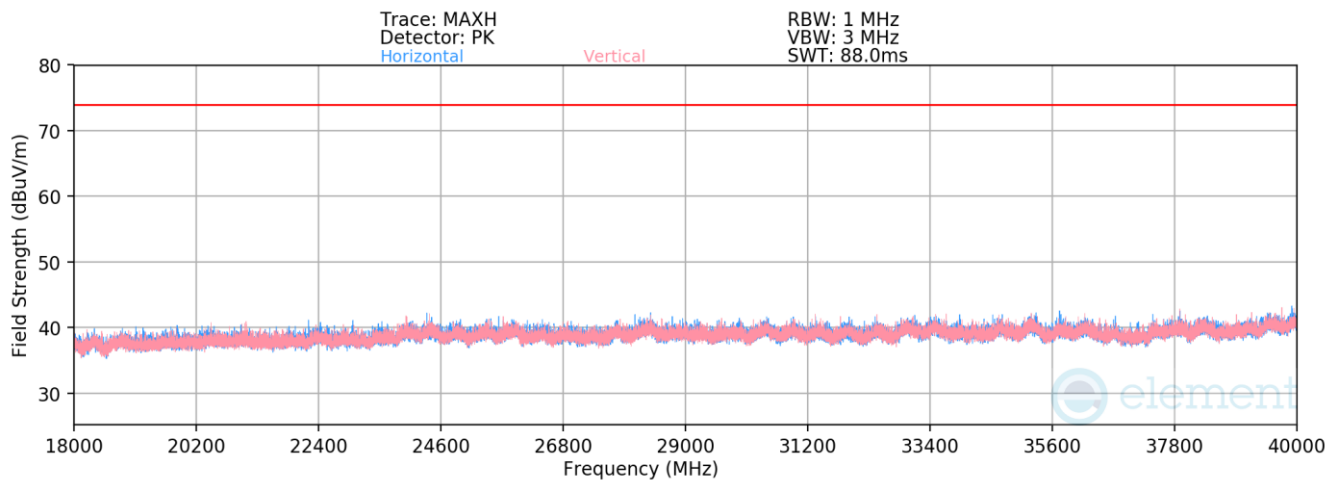
Table 7-40. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 101 of 137

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Plot 7-99. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA - 5245MHz)



Plot 7-100. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII HDR4, ePA - 5245MHz)

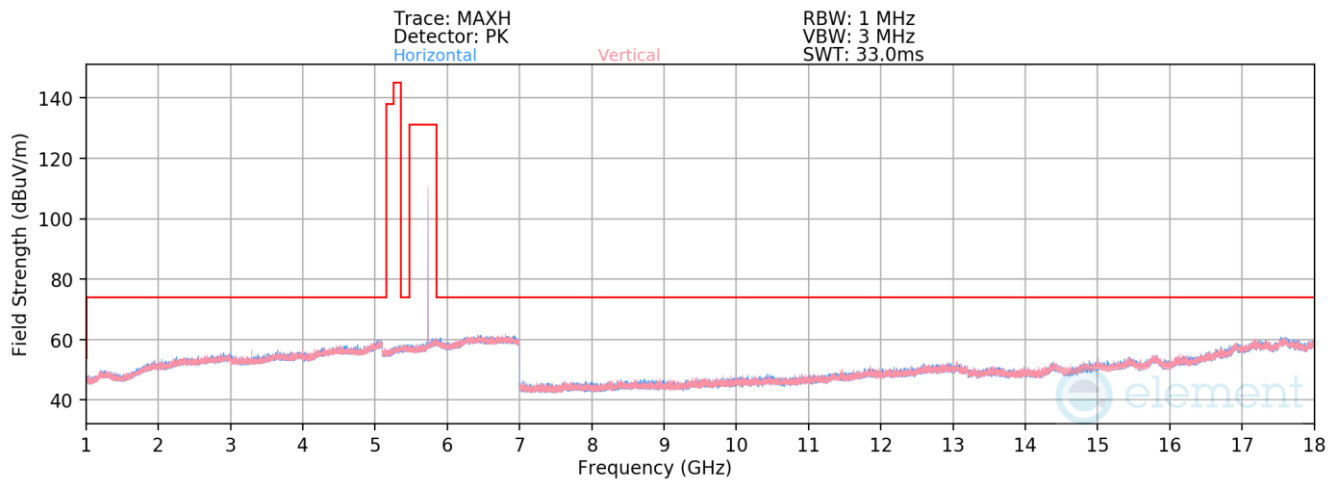
Mode:	HDR4
Data Rate:	4Mbps
Power Scheme:	ePA
Distance of Measurements:	3 Meters
Operating Frequency:	5245MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
	10490.00	Peak	H	-	-	-71.64	12.74	48.10	68.23	-20.13
*	15735.00	Average	V	-	-	-83.66	20.88	44.22	53.98	-9.76
*	15735.00	Peak	V	-	-	-71.32	20.88	56.57	73.98	-17.41

Table 7-41. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device		Page 102 of 137

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Plot 7-101. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5733MHz)

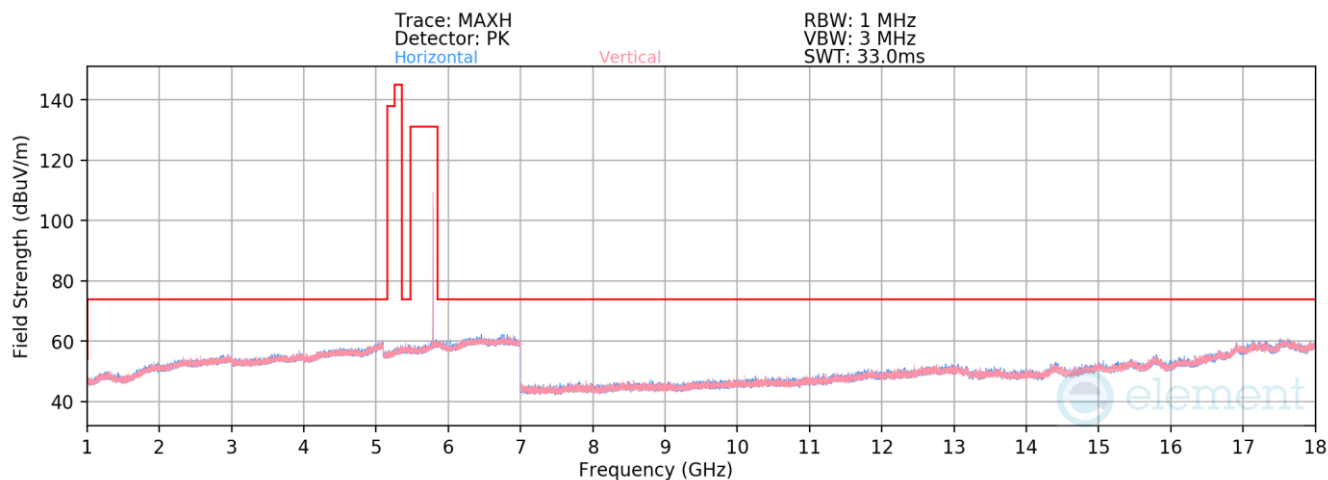
Mode: HDR4
Data Rate: 4Mbps
Power Scheme: ePA
Distance of Measurements: 3 Meters
Operating Frequency: 5733MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	11466.00	Average	V	-	-	-83.13	14.07	37.94	53.98	-16.04
*	11466.00	Peak	V	-	-	-72.02	14.07	49.05	73.98	-24.93
	17199.00	Peak	V	-	-	-73.28	26.41	60.13	68.23	-8.10

Table 7-42. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 103 of 137

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Plot 7-102. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA – 5789MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

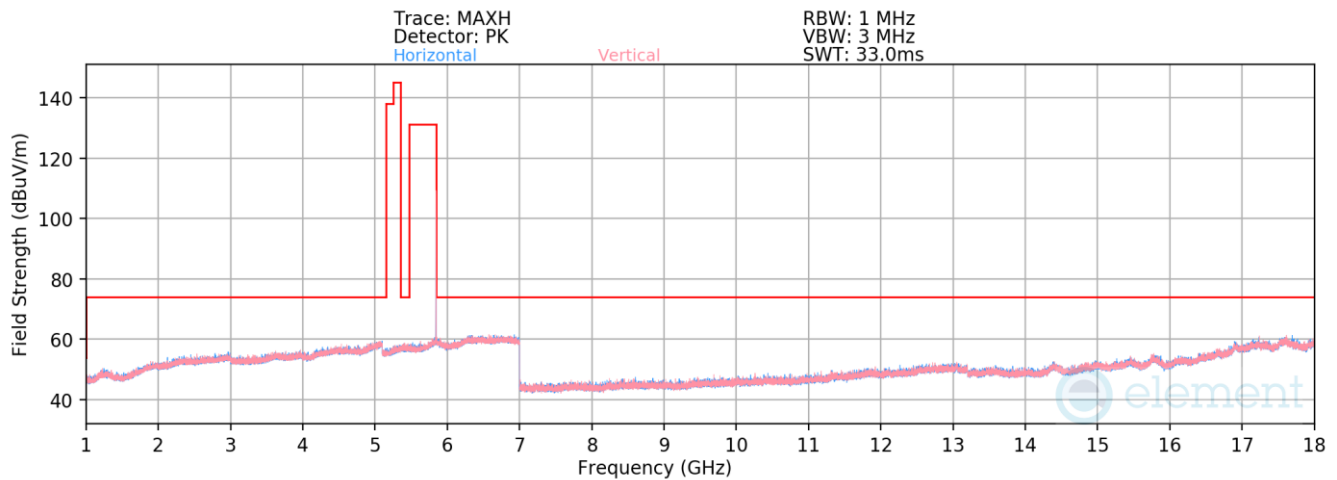
Operating Frequency: 5789MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	11578.00	Average	H	-	-	-83.72	14.34	37.62	53.98	-16.36
*	11578.00	Peak	H	-	-	-72.20	14.19	48.99	73.98	-24.99
	17367.00	Peak	V	-	-	-74.69	27.63	59.94	68.23	-8.29

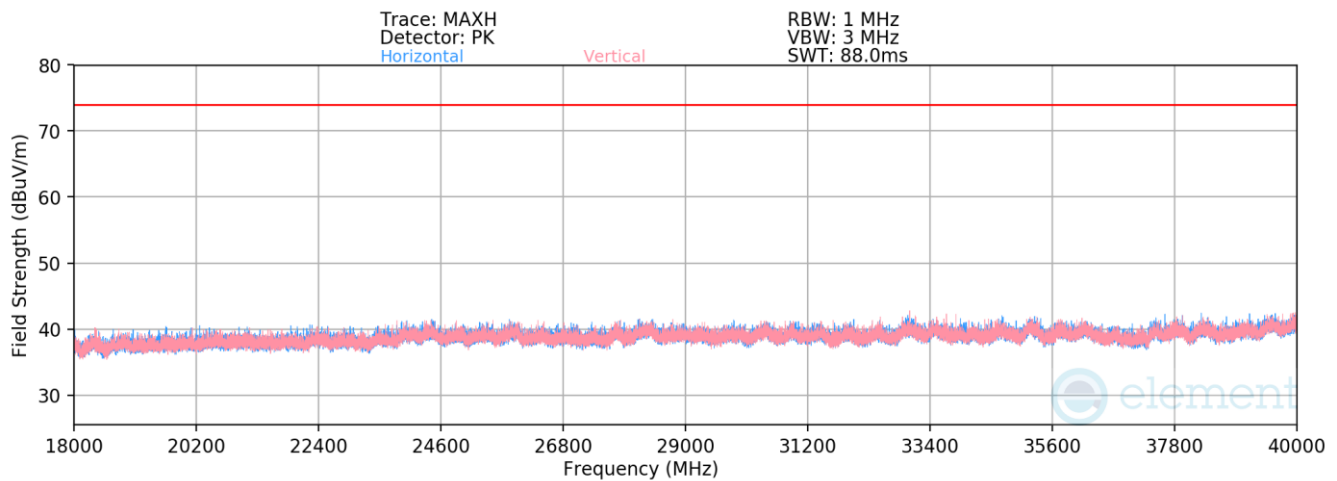
Table 7-43. Radiated Spurious Emissions Measurements TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 104 of 137

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Plot 7-103. Radiated Spurious Emissions 1-18GHz TxBF (NB UNII HDR4, ePA - 5844MHz)



Plot 7-104. Radiated Spurious Emissions Above 18GHz TxBF (NB UNII HDR4, ePA - 5844MHz)

Mode: HDR4

Data Rate: 4Mbps

Power Scheme: ePA

Distance of Measurements: 3 Meters

Operating Frequency: 5844MHz

	Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
*	11688.00	Average	V	-	-	-83.19	14.14	37.95	53.98	-16.03
*	11688.00	Peak	V	-	-	-71.72	14.00	49.28	73.98	-24.70
	17532.00	Peak	H	-	-	-73.00	27.05	61.05	68.23	-7.18

Table 7-44. Radiated Spurious Emissions Measurements TxBF

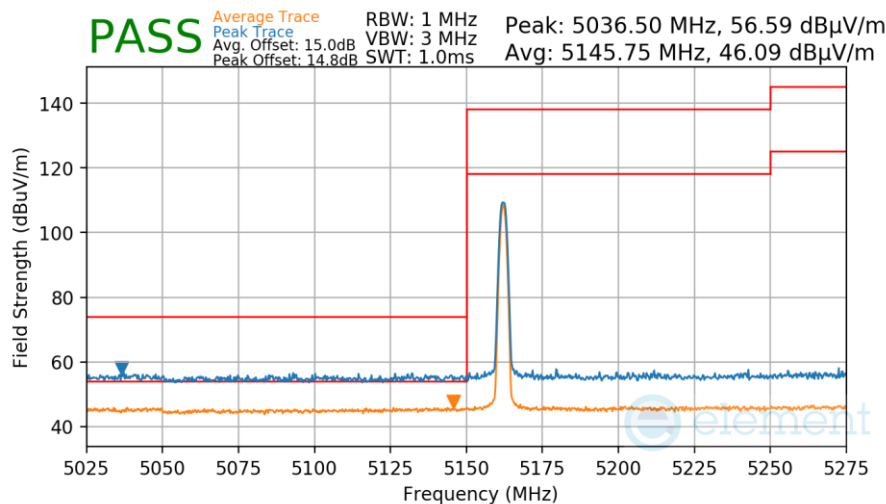
FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device		Page 105 of 137

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7.6.1 Radiated Band Edge Measurements

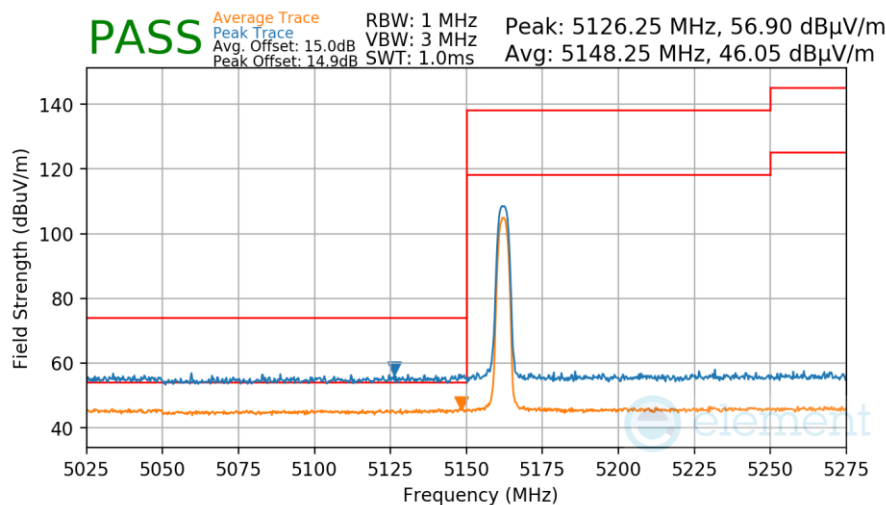
Antenna 3c

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-105. Radiated Lower Band Edge Measurement Antenna 3c

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz

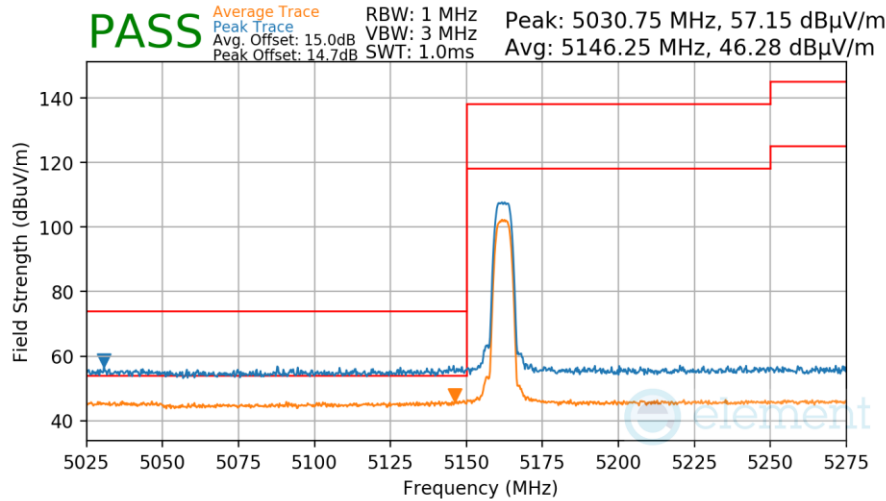


Plot 7-106. Radiated Lower Band Edge Measurement Antenna 3c

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 106 of 137

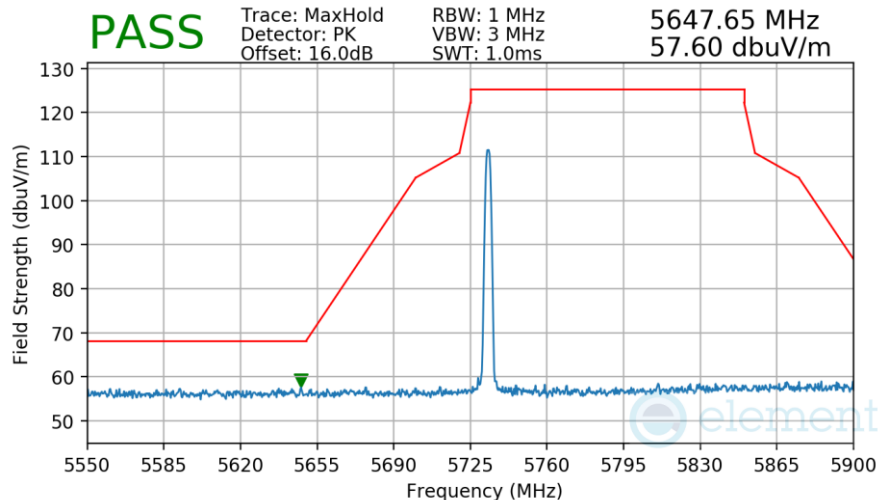
V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



Plot 7-107. Radiated Lower Band Edge Measurement Antenna 3c

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

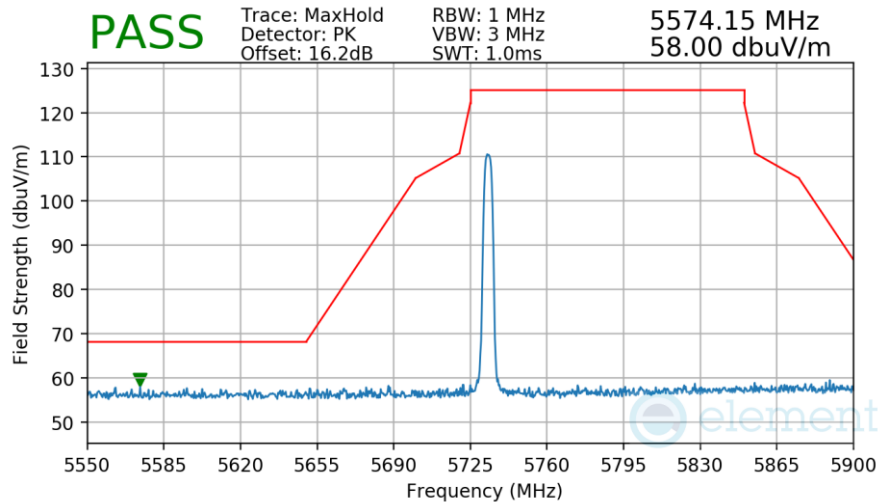


Plot 7-108. Radiated Lower Band Edge Measurement Antenna 3c

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 107 of 137

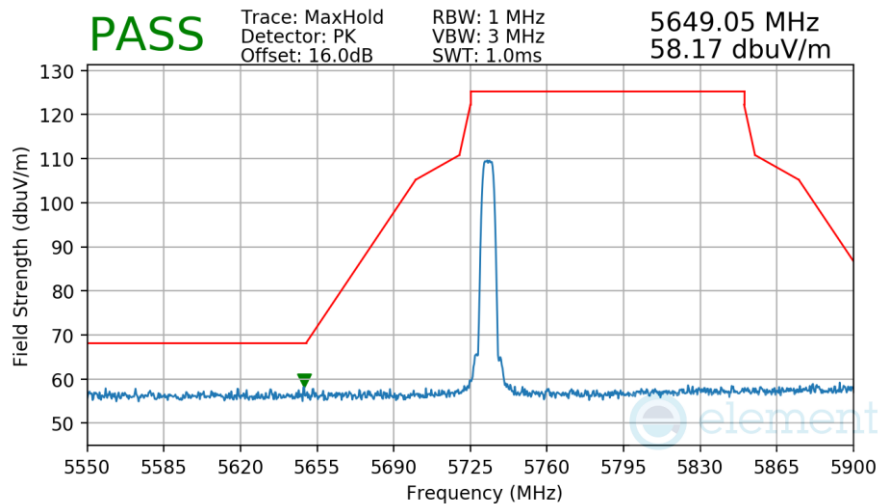
V 10.6 10/27/2023

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-109. Radiated Lower Band Edge Measurement Antenna 3c

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

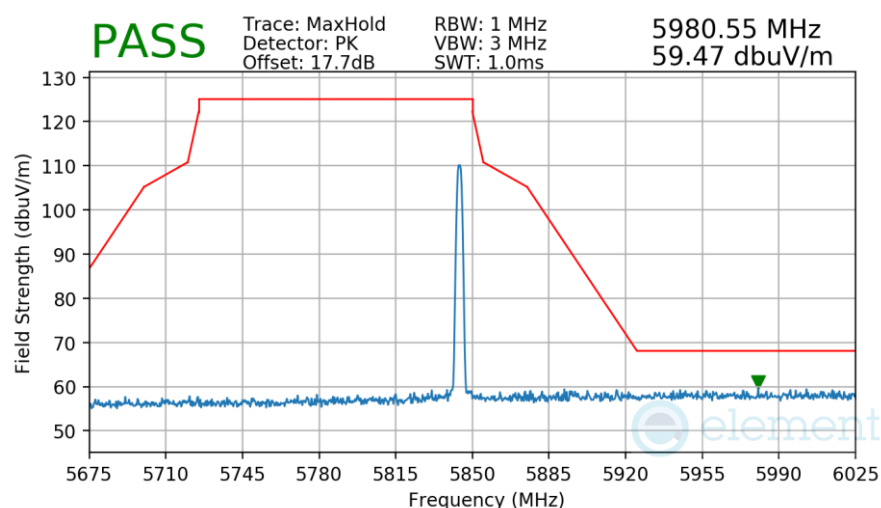


Plot 7-110. Radiated Lower Band Edge Measurement Antenna 3c

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 108 of 137

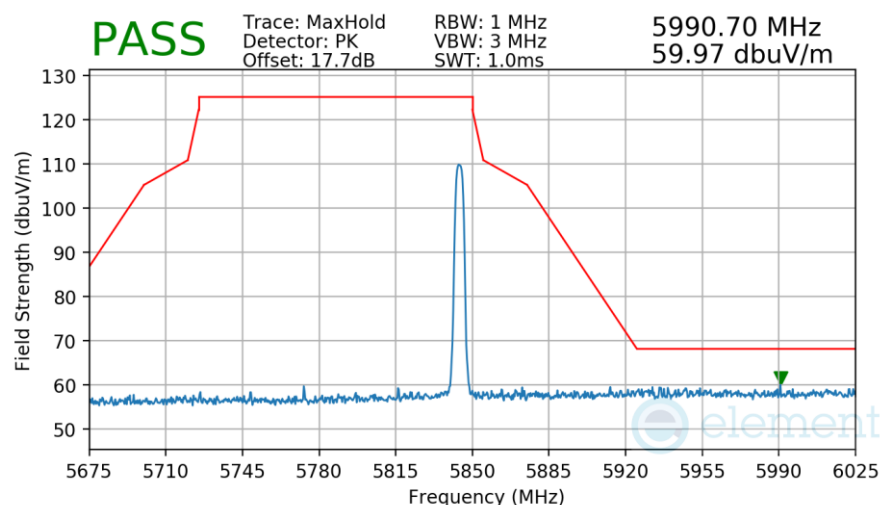
V 10.6 10/27/2023

Mode: BDR
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz



Plot 7-111. Radiated Upper Band Edge Measurement Antenna 3c

Mode: HDR4
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5844MHz

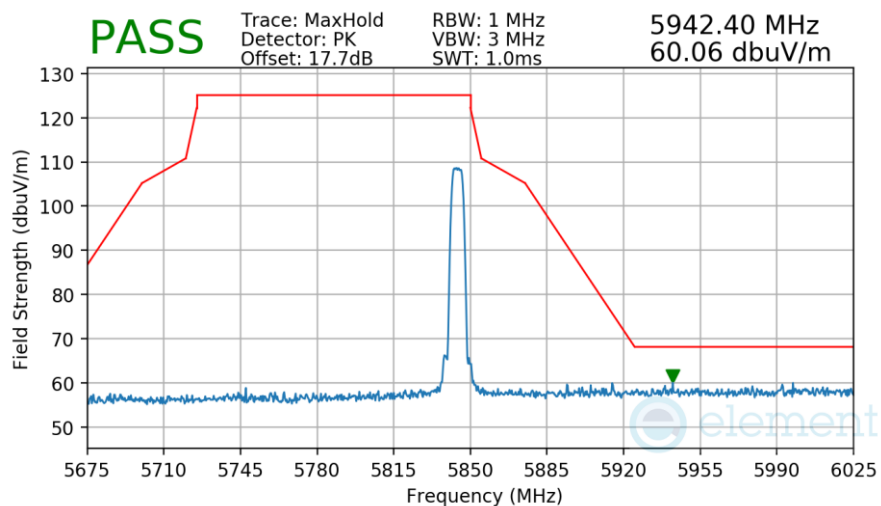


Plot 7-112. Radiated Upper Band Edge Measurement Antenna 3c

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 109 of 137

V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-113. Radiated Upper Band Edge Measurement Antenna 3c

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 110 of 137

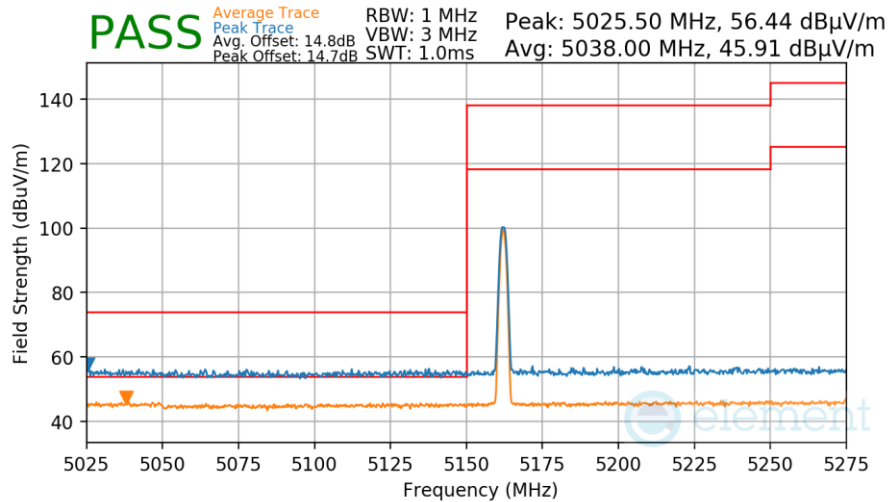
V 10.6 10/27/2023

Radiated Band Edge Measurements

§15.407(b.1)(b.2) §15.205 §15.209

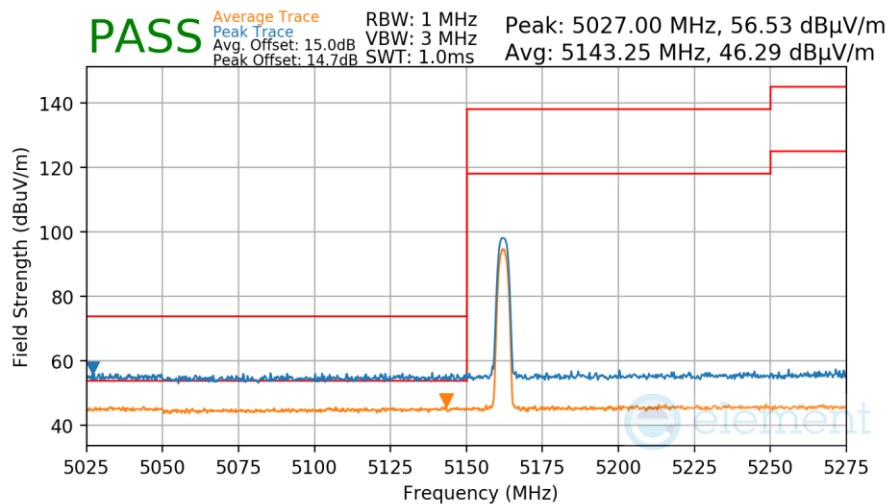
Antenna 3a

Mode:	BDR
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-114. Radiated Lower Band Edge Measurement Antenna 3a

Mode:	HDR4
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz

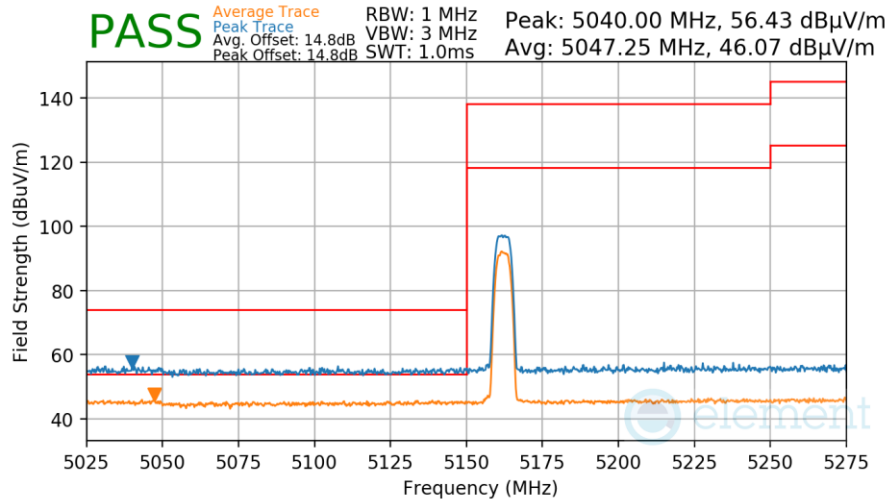


Plot 7-115. Radiated Lower Band Edge Measurement Antenna 3a

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 111 of 137

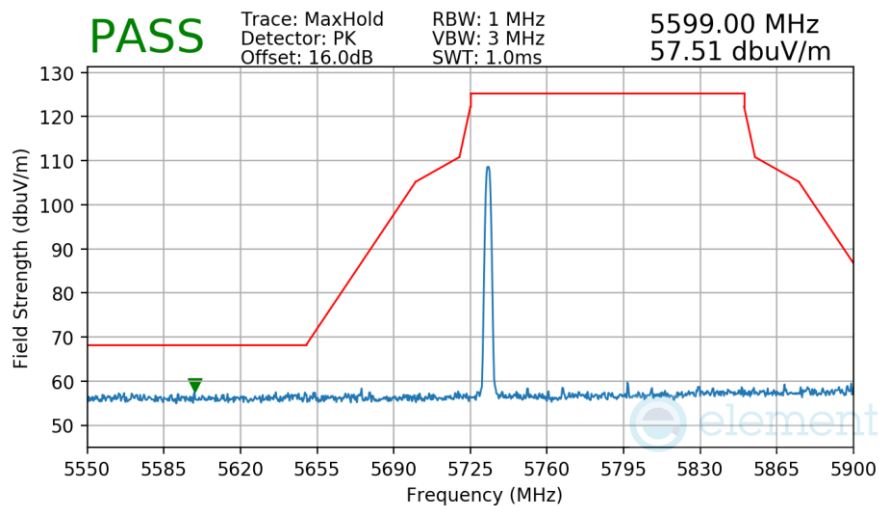
V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5162MHz



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

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

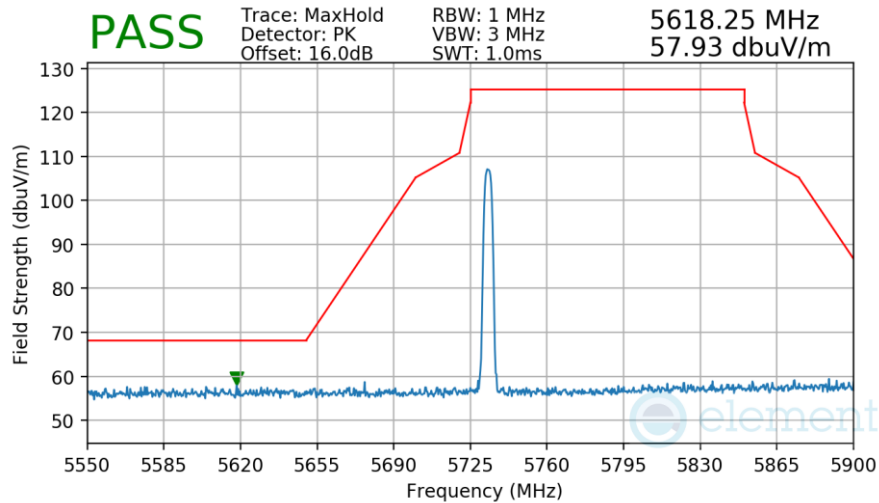


Plot 7-117. Radiated Lower Band Edge Measurement Antenna 3a

FCC ID: BCGA3267	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 112 of 137

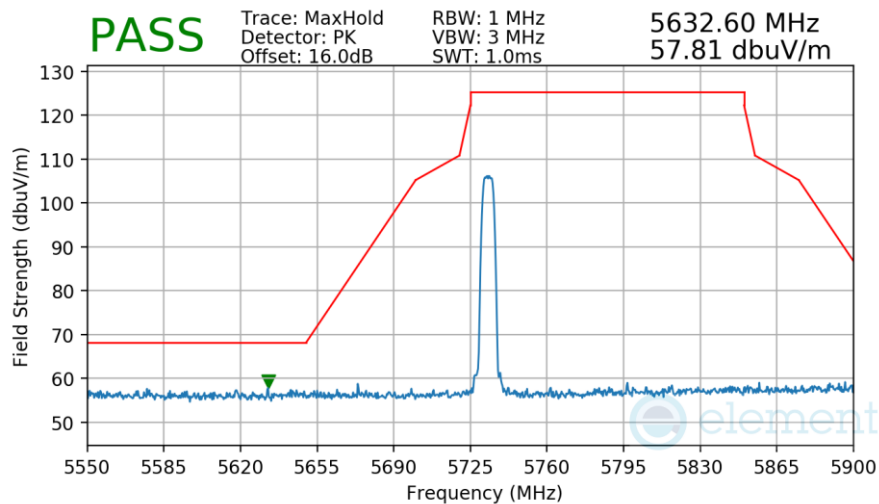
V 10.6 10/27/2023

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



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

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

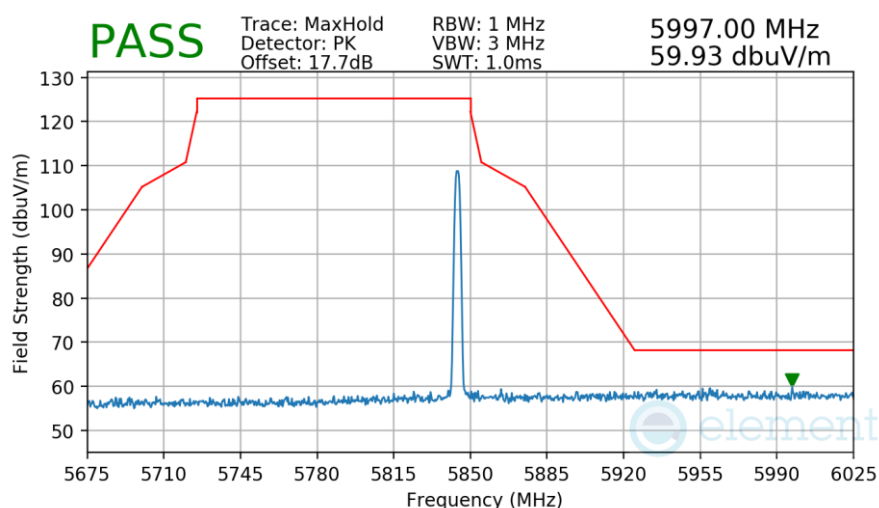


Plot 7-119. Radiated Lower Band Edge Measurement Antenna 3a

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 113 of 137

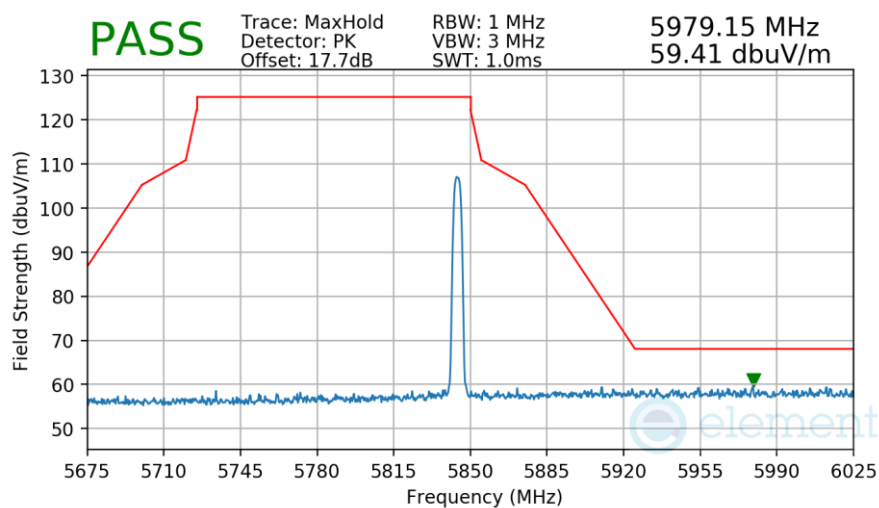
V 10.6 10/27/2023

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-120. Radiated Upper Band Edge Measurement Antenna 3a

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz

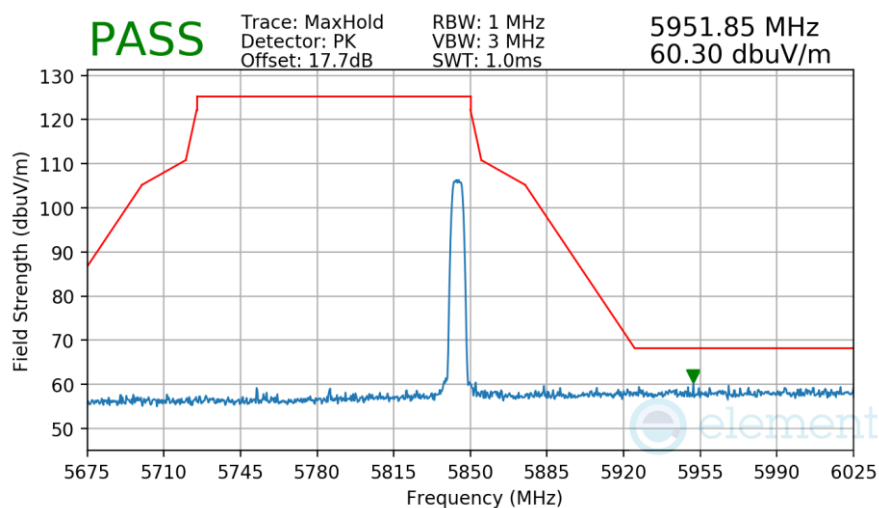


Plot 7-121. Radiated Upper Band Edge Measurement Antenna 3a

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 114 of 137

V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-122. Radiated Upper Band Edge Measurement Antenna 3a

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 115 of 137

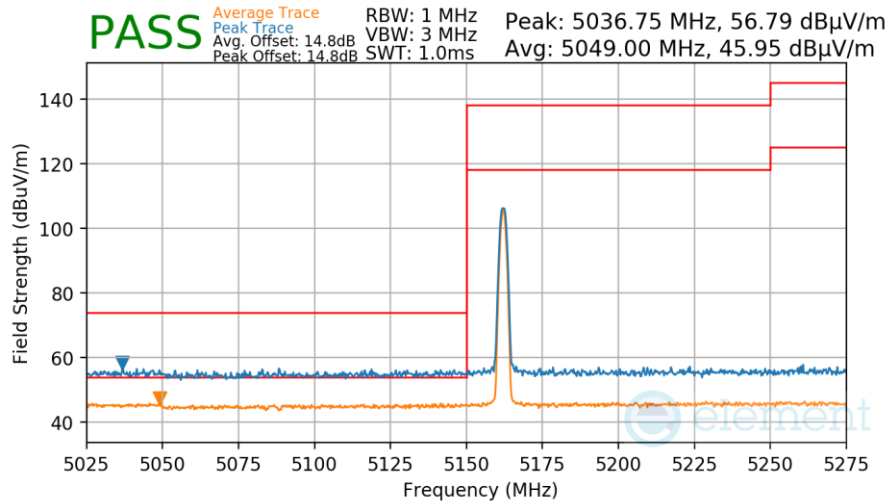
V 10.6 10/27/2023

Radiated Band Edge Measurements

§15.407(b.1)(b.2) §15.205 §15.209

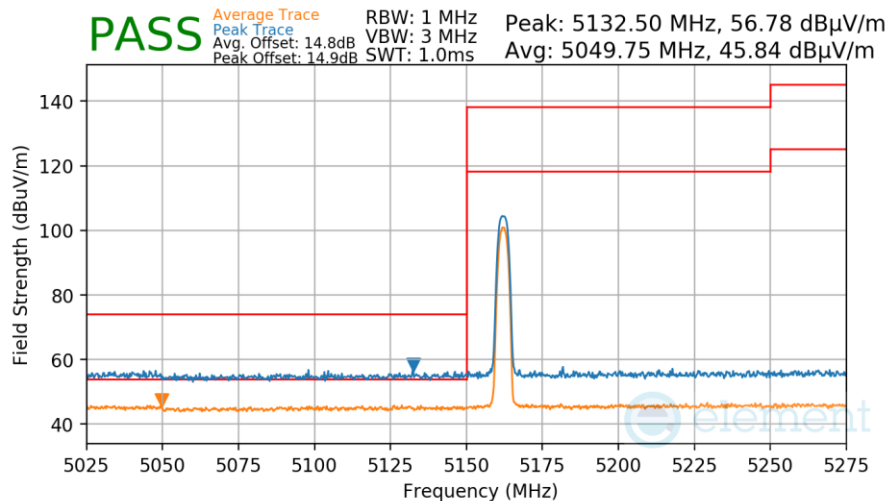
Antenna 1b

Mode:	BDR
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-123. Radiated Lower Band Edge Measurement Antenna 1b

Mode:	HDR4
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz

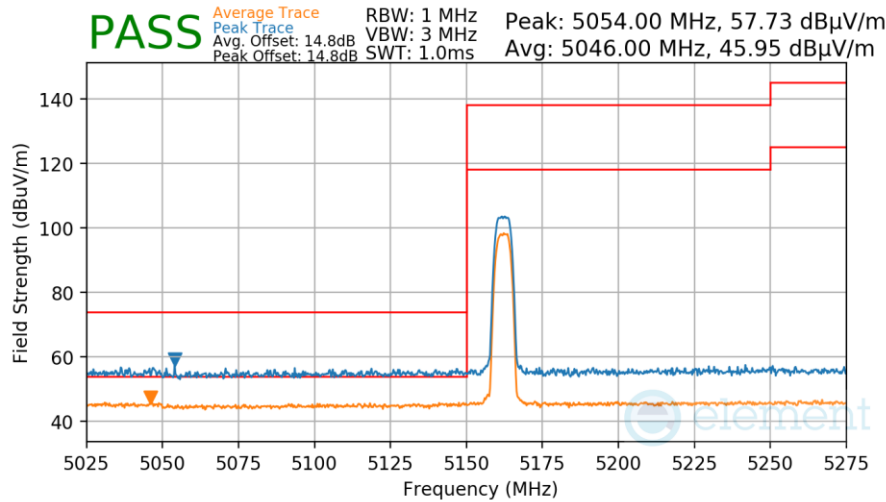


Plot 7-124. Radiated Lower Band Edge Measurement Antenna 1b

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 116 of 137

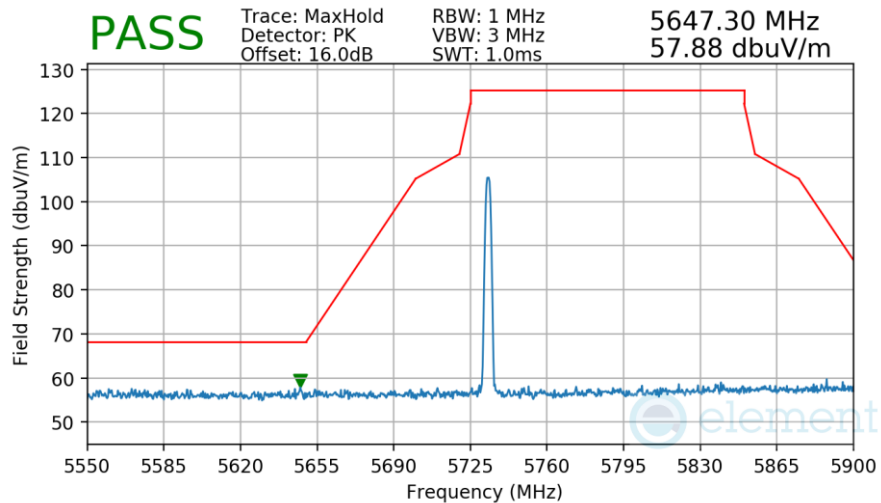
V 10.6 10/27/2023

Mode: HDR8
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5162MHz



Plot 7-125. Radiated Lower Band Edge Measurement Antenna 1b

Mode: BDR
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5733MHz

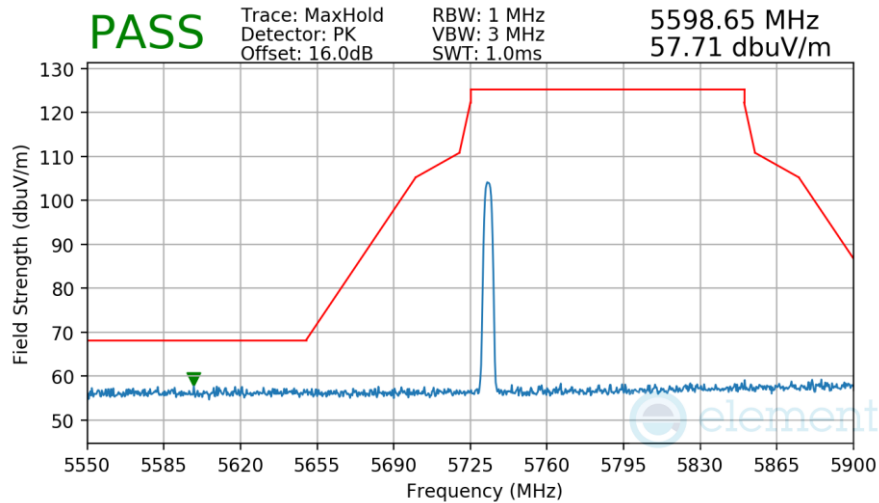


Plot 7-126. Radiated Lower Band Edge Measurement Antenna 1b

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 117 of 137

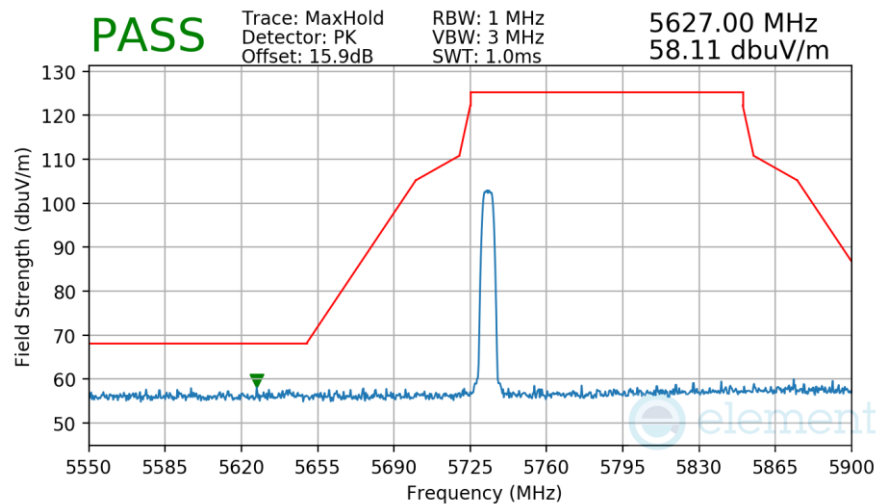
V 10.6 10/27/2023

Mode: HDR4
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5733MHz



Plot 7-127. Radiated Lower Band Edge Measurement Antenna 1b

Mode: HDR8
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5733MHz

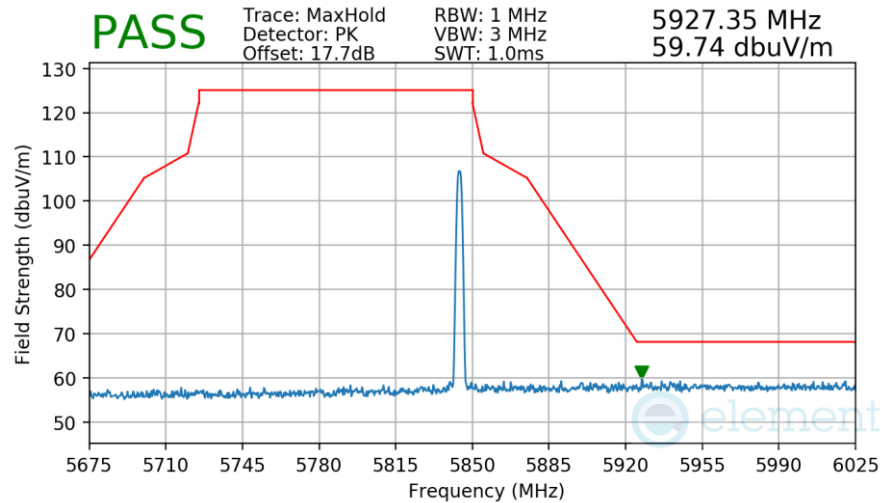


Plot 7-128. Radiated Lower Band Edge Measurement Antenna 1b

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 118 of 137

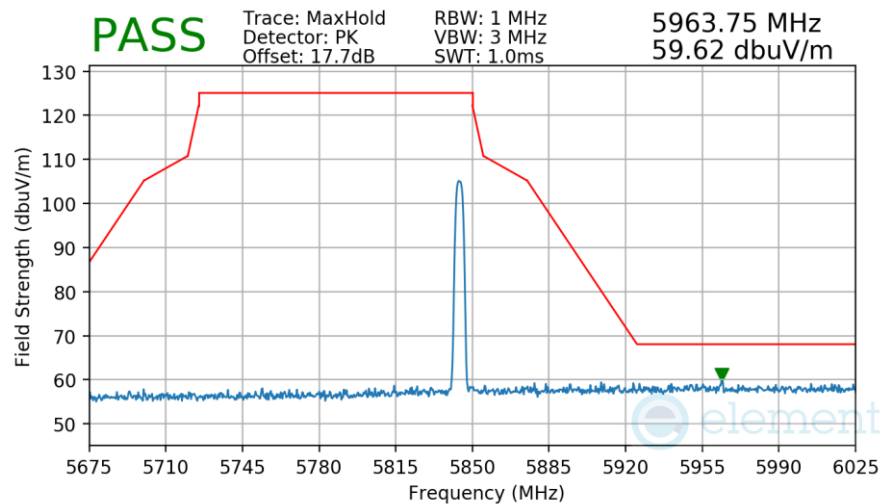
V 10.6 10/27/2023

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-129. Radiated Upper Band Edge Measurement Antenna 1b

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz

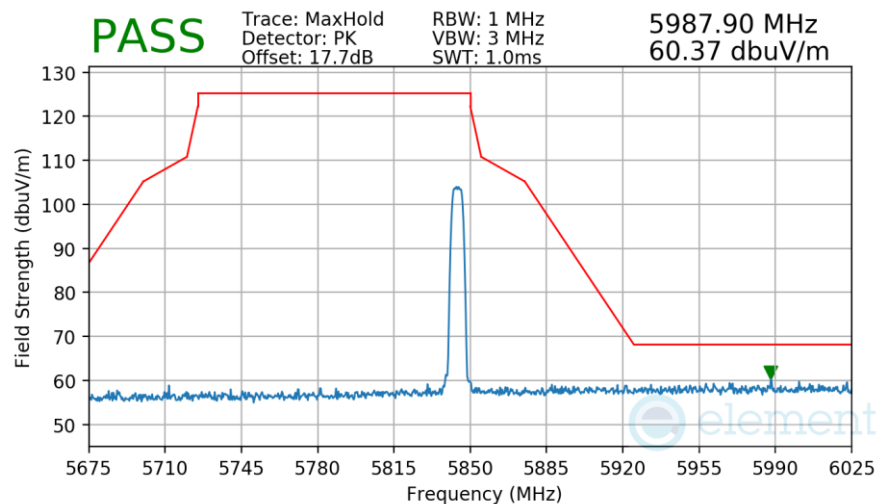


Plot 7-130. Radiated Upper Band Edge Measurement Antenna 1b

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 119 of 137

V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-131. Radiated Upper Band Edge Measurement Antenna 1b

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 120 of 137

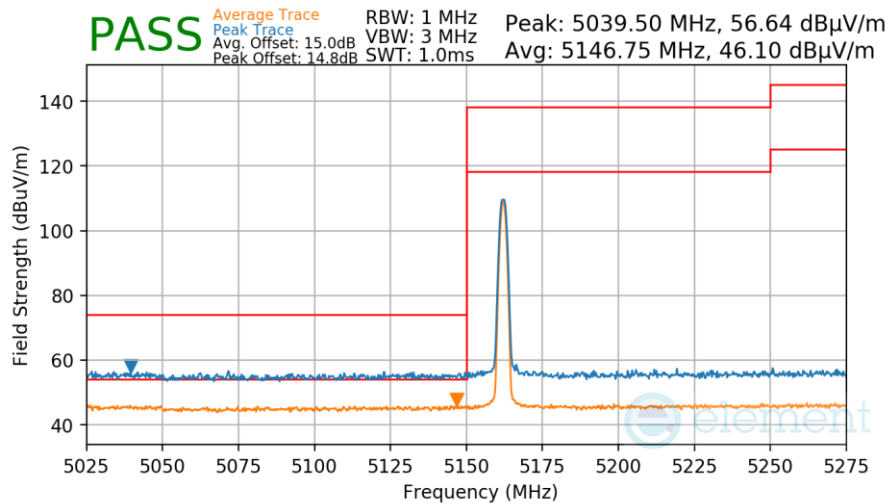
V 10.6 10/27/2023

Radiated Band Edge Measurements

§15.407(b.1)(b.2) §15.205 §15.209

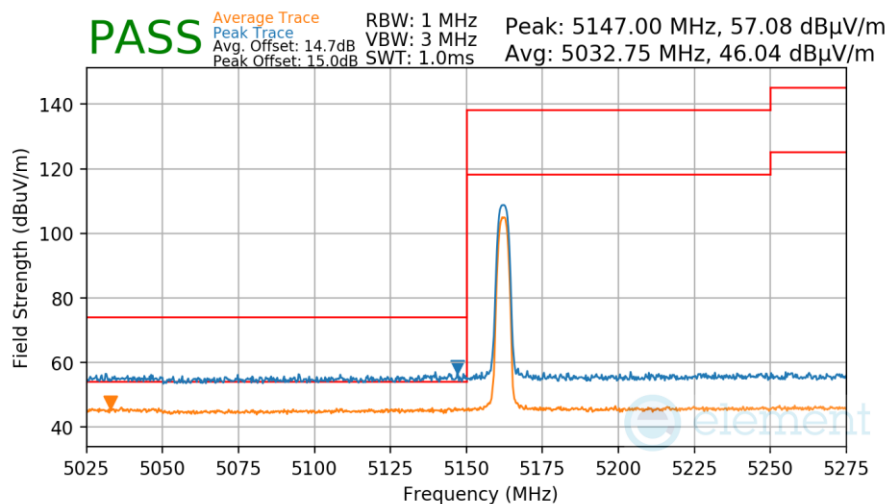
TxBF

Mode:	BDR
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz



Plot 7-132. Radiated Lower Band Edge Measurement Antenna TxBF

Mode:	HDR4
Power Scheme:	ePA
Measurement Distance:	3 Meters
Operating Frequency:	5162MHz

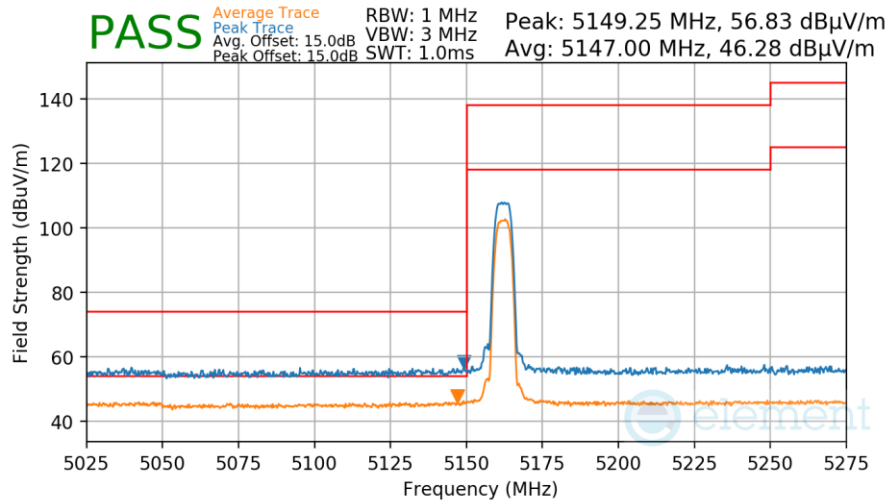


Plot 7-133. Radiated Lower Band Edge Measurement Antenna TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 121 of 137

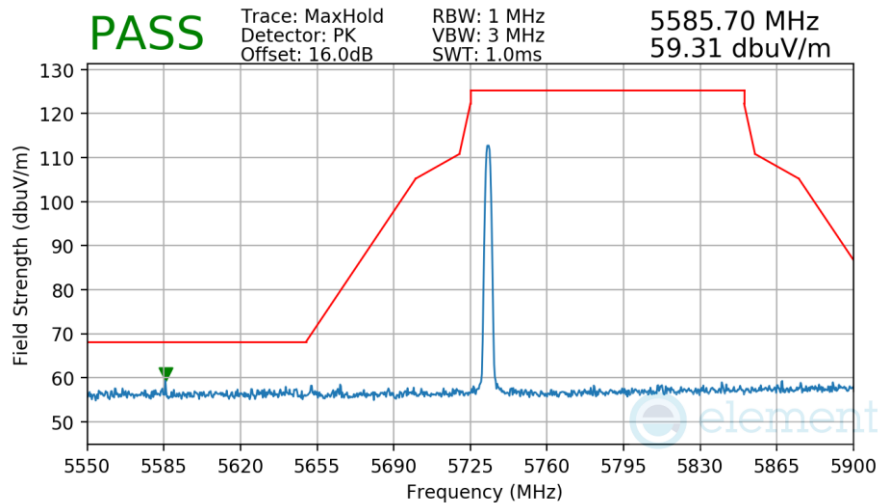
V 10.6 10/27/2023

Mode: HDR8
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5162MHz



Plot 7-134. Radiated Lower Band Edge Measurement Antenna TxBF

Mode: BDR
Power Scheme: ePA
Measurement Distance: 3 Meters
Operating Frequency: 5733MHz

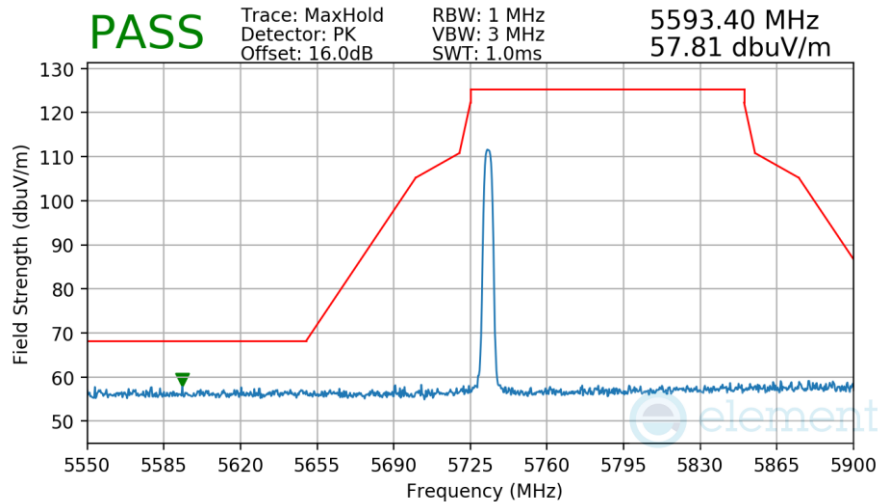


Plot 7-135. Radiated Lower Band Edge Measurement Antenna TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 122 of 137

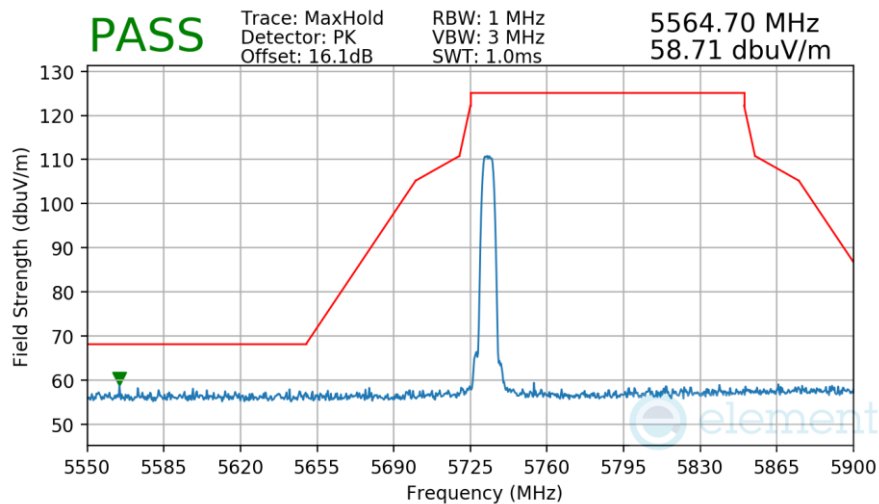
V 10.6 10/27/2023

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz



Plot 7-136. Radiated Lower Band Edge Measurement Antenna TxBF

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5733MHz

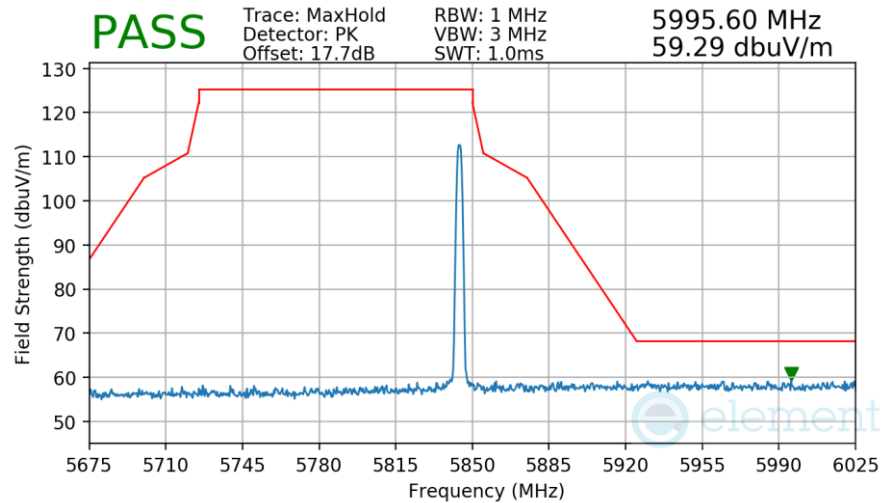


Plot 7-137. Radiated Lower Band Edge Measurement Antenna TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 123 of 137

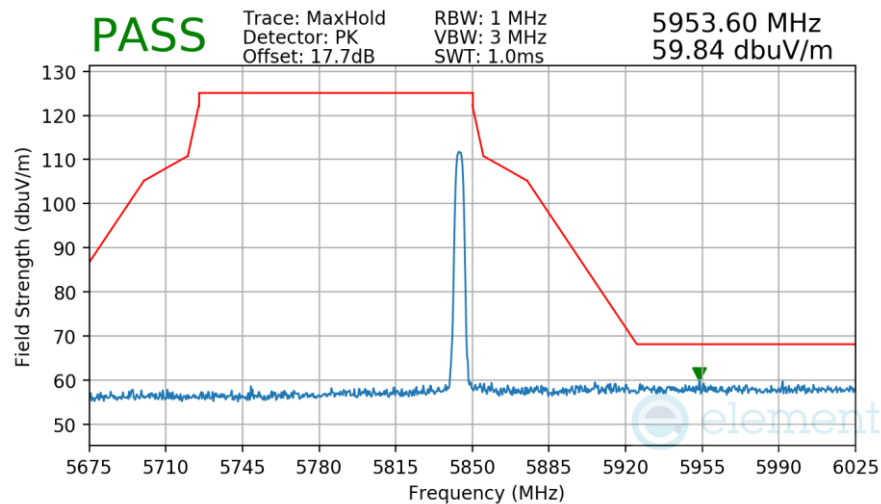
V 10.6 10/27/2023

Mode: BDR
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-138. Radiated Upper Band Edge Measurement Antenna TxBF

Mode: HDR4
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz

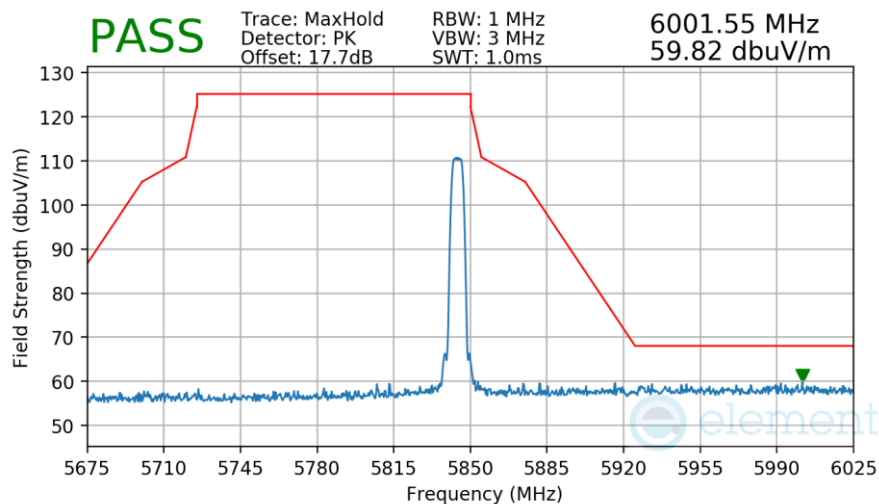


Plot 7-139. Radiated Upper Band Edge Measurement Antenna TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 124 of 137

V 10.6 10/27/2023

Mode: HDR8
 Power Scheme: ePA
 Measurement Distance: 3 Meters
 Operating Frequency: 5844MHz



Plot 7-140. Radiated Upper Band Edge Measurement Antenna TxBF

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2410210073-19.BCG	Test Dates: 10/25/2024 - 12/31/2024	EUT Type: Tablet Device	Page 125 of 137

V 10.6 10/27/2023

7.7 Radiated Spurious Emissions – Below 1GHz

§15.209

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 must not exceed the limits shown in Table 7-45 per Section 15.209.

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 7-45. 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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Test Setup

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

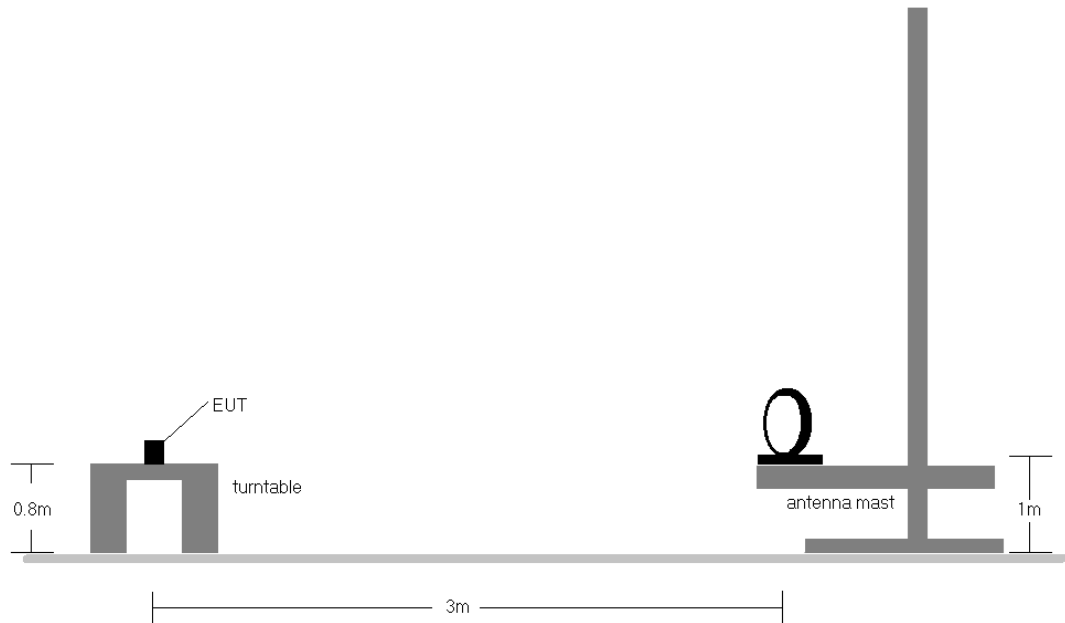


Figure 7-6. Radiated Test Setup < 30MHz

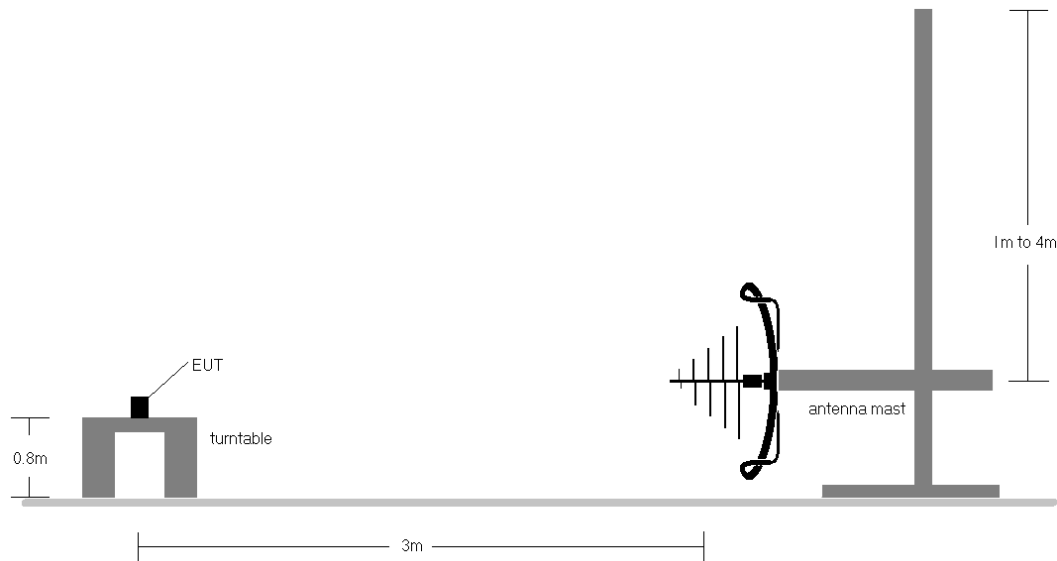


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Notes

1. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 7-45.
2. 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 for emissions 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 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 to 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 $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit }_{[dB\mu V/m]}$

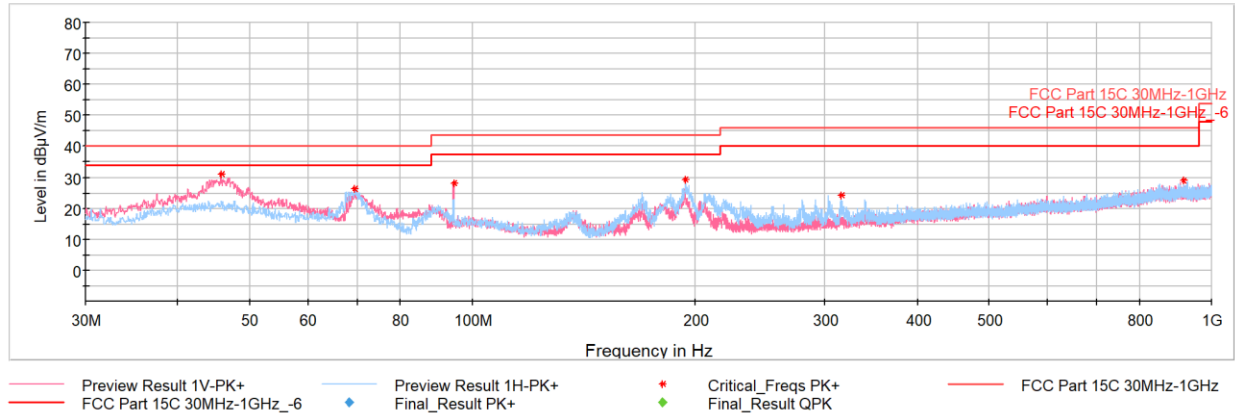
FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Radiated Spurious Emissions (Below 1GHz)

§15.209

TxBF



Plot 7-141. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII BDR ePA – 5844MHz), with AC/DC adaptor to USB-C cable with wire charger

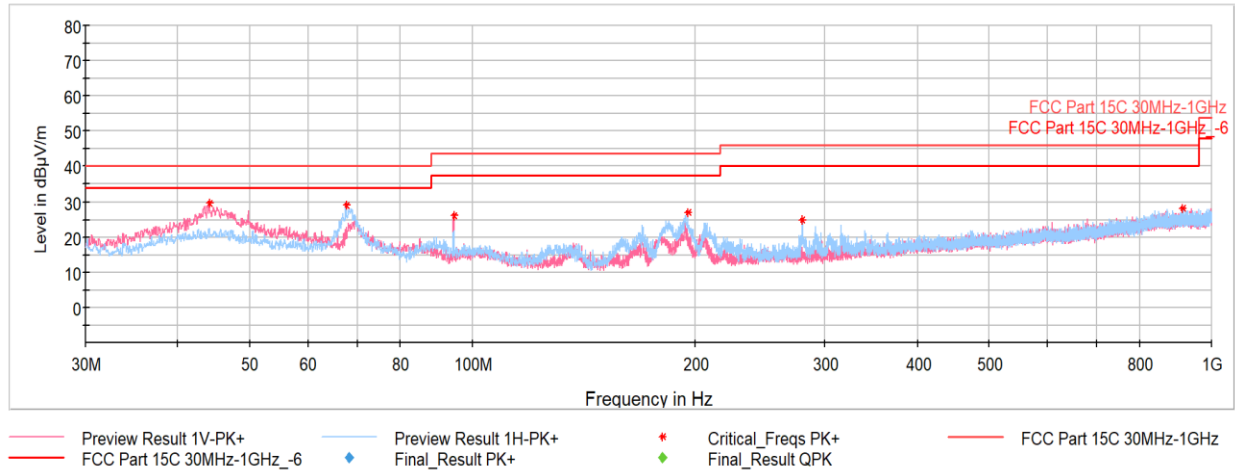
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
45.763	Max-Peak	V	100	315	-61.52	-14.49	30.99	40.00	-9.01
69.334	Max-Peak	H	300	252	-61.73	-18.88	26.39	40.00	-13.61
94.505	Max-Peak	V	100	71	-61.51	-17.47	28.02	43.52	-15.50
194.221	Max-Peak	H	100	232	-61.84	-16.01	29.15	43.52	-14.37
315.326	Max-Peak	H	100	15	-69.80	-12.83	24.37	46.02	-21.65
916.774	Max-Peak	H	100	1	-76.71	-1.44	28.85	46.02	-17.17

Table 7-46. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII BDR ePA – 5844MHz), with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-142. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII HDR4 ePA – 5844MHz), with AC/DC adaptor to USB-C cable with wire charger

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]
44.114	Max-Peak	V	100	292	-62.70	-14.72	29.58	40.00	-10.42
67.539	Max-Peak	H	300	288	-59.88	-18.24	28.88	40.00	-11.12
94.457	Max-Peak	V	100	108	-63.35	-17.48	26.17	43.52	-17.35
195.531	Max-Peak	H	100	306	-64.18	-15.75	27.07	43.52	-16.45
279.533	Max-Peak	H	100	186	-68.28	-13.88	24.84	46.02	-21.18
913.864	Max-Peak	H	100	160	-77.55	-1.46	27.99	46.02	-18.03

Table 7-47. Radiated Spurious Emissions Below 1GHz TxBF (NB UNII HDR4 ePA – 5844MHz), with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.8 AC Line Conducted Emissions Measurement

§15.207

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. All data rates and modes were investigated for AC Line conducted spurious emissions.

All conducted emissions must not exceed the limits shown in the table below, per Section 15.207.

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 7-48. 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.

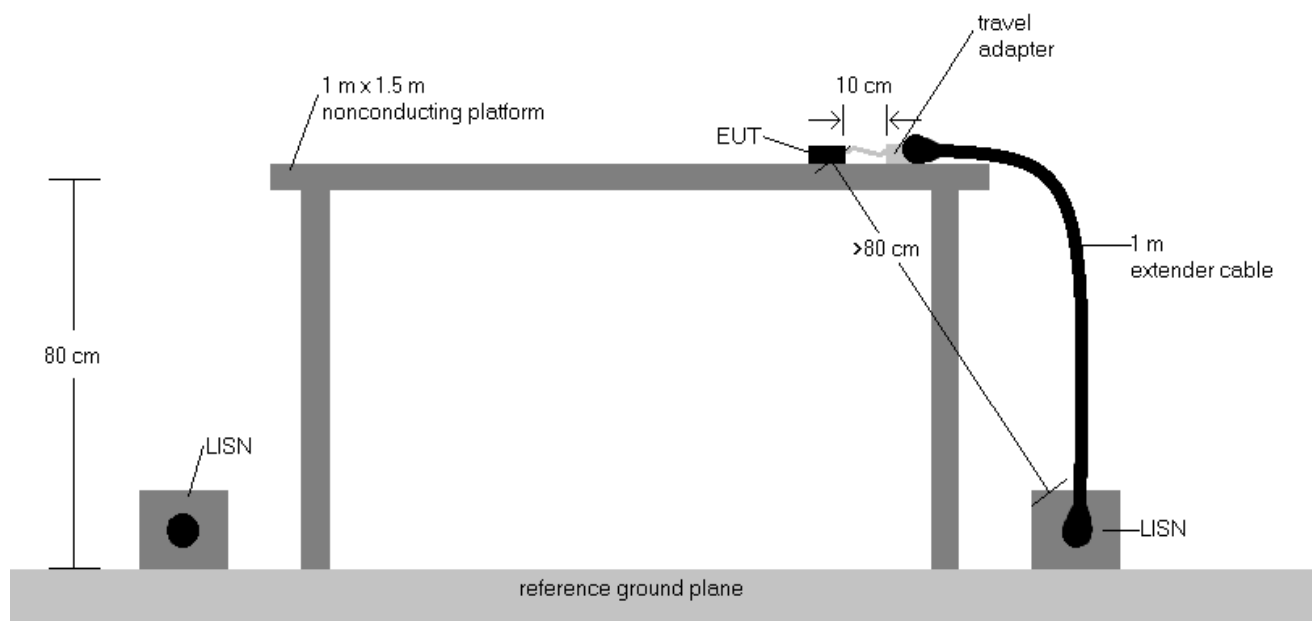


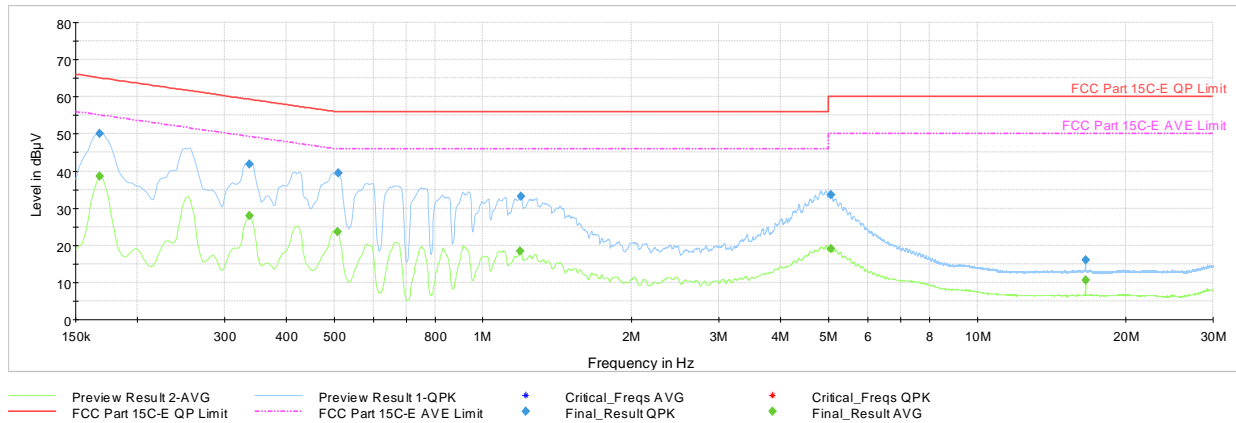
Figure 7-8. Test Instrument & Measurement Setup

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 to 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 15.207.
4. $\text{Corr. (dB)} = \text{Cable loss (dB)} + \text{LISN insertion factor (dB)}$
5. $\text{QP/AV Level (dB}\mu\text{V)} = \text{QP/AV Analyzer/Receiver Level (dB}\mu\text{V)} + \text{Correction Factor (dB)}$
6. $\text{Margin (dB)} = \text{QP/AV Level (dB}\mu\text{V)} - \text{QP/AV Limit (dB}\mu\text{V)}$
7. Traces shown in plots are made using quasi-peak and average detectors.
8. Deviations to the Specifications: None.

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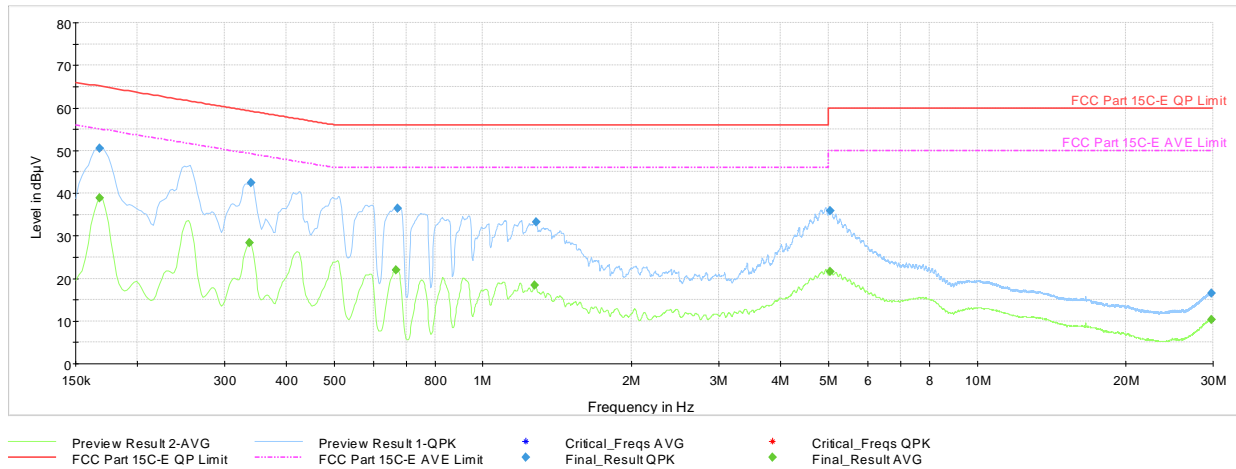
Plot 7-143. AC Line Conducted Plot TxBF (NB UNII BDR ePA – 5844MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	38.49	55.06	-16.57	L1	GND
0.168	FINAL	50.1	—	65.06	-14.96	L1	GND
0.337	FINAL	—	27.87	49.28	-21.41	L1	GND
0.337	FINAL	41.8	—	59.28	-17.47	L1	GND
0.508	FINAL	—	23.66	46.00	-22.34	L1	GND
0.510	FINAL	39.4	—	56.00	-16.57	L1	GND
1.192	FINAL	—	18.41	46.00	-27.59	L1	GND
1.194	FINAL	33.1	—	56.00	-22.94	L1	GND
5.053	FINAL	33.7	—	60.00	-26.30	L1	GND
5.057	FINAL	—	19.05	50.00	-30.95	L1	GND
16.550	FINAL	—	10.63	50.00	-39.37	L1	GND
16.550	FINAL	16.0	—	60.00	-43.98	L1	GND

Table 7-49. AC Line Conducted Data TxBF (NB UNII BDR ePA – 5844MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-144. AC Line Conducted Plot TxBF (NB UNII BDR ePA – 5844MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

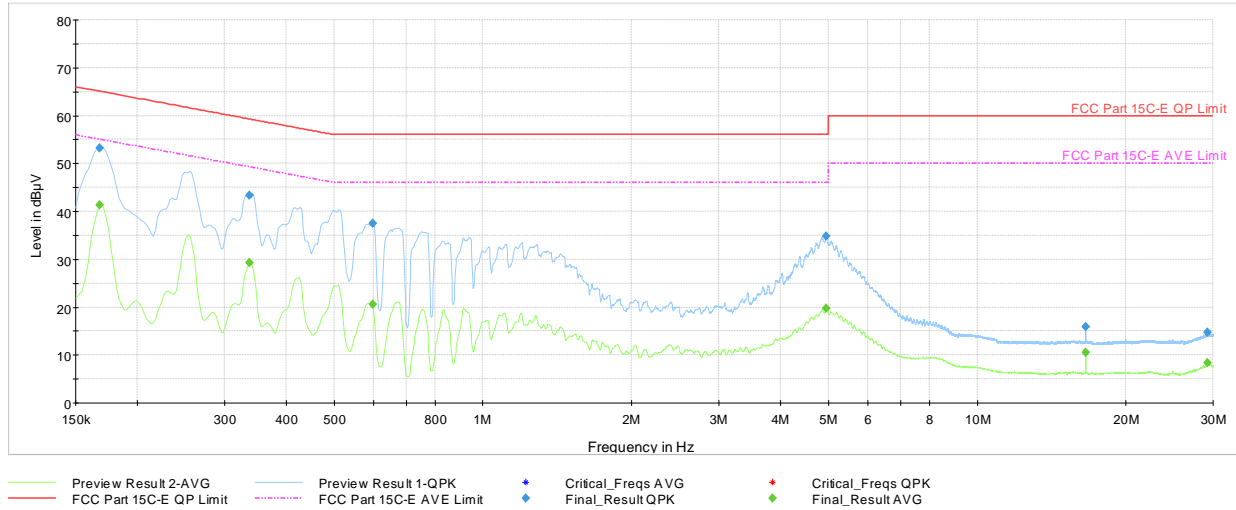
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	38.95	55.06	-16.11	N	GND
0.168	FINAL	50.6	—	65.06	-14.51	N	GND
0.337	FINAL	—	28.33	49.28	-20.95	N	GND
0.339	FINAL	42.5	—	59.23	-16.73	N	GND
0.668	FINAL	—	21.94	46.00	-24.06	N	GND
0.672	FINAL	36.5	—	56.00	-19.48	N	GND
1.273	FINAL	—	18.38	46.00	-27.62	N	GND
1.284	FINAL	33.2	—	56.00	-22.85	N	GND
5.035	FINAL	35.8	—	60.00	-24.17	N	GND
5.048	FINAL	—	21.53	50.00	-28.47	N	GND
29.724	FINAL	—	10.28	50.00	-39.72	N	GND
29.726	FINAL	16.4	—	60.00	-43.56	N	GND

Table 7-50. AC Line Conducted TxBF (NB UNII BDR ePA – 5844MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

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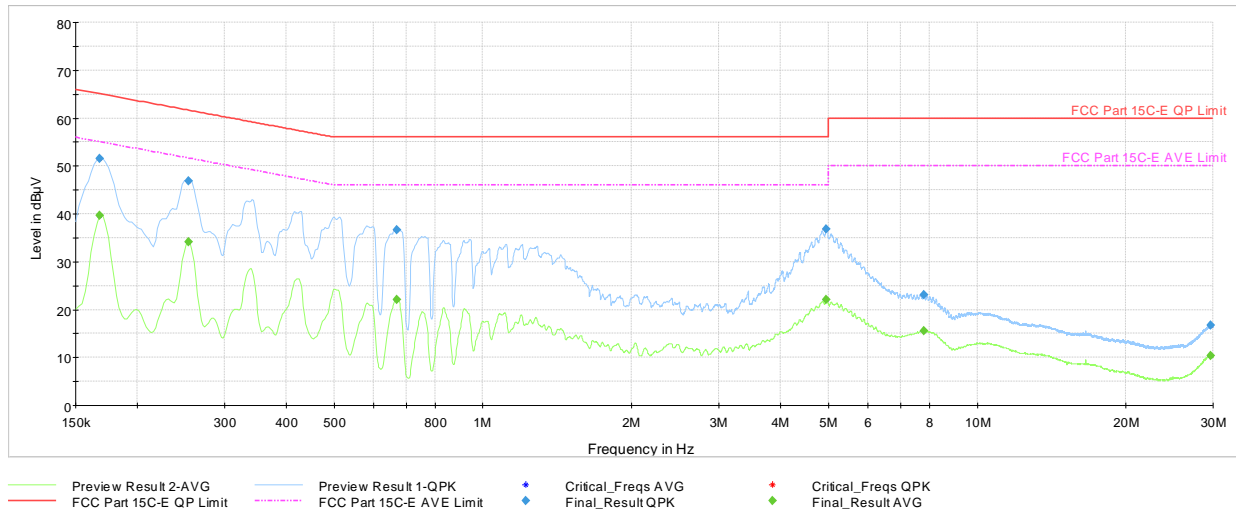
Plot 7-145. AC Line Conducted Plot TxBF (NB UNII HDR4 ePA – 5844MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	41.30	55.06	-13.76	L1	GND
0.168	FINAL	53.3	—	65.06	-11.80	L1	GND
0.337	FINAL	—	29.27	49.28	-20.01	L1	GND
0.337	FINAL	43.3	—	59.28	-16.01	L1	GND
0.598	FINAL	—	20.51	46.00	-25.49	L1	GND
0.598	FINAL	37.5	—	56.00	-18.52	L1	GND
4.954	FINAL	34.8	—	56.00	-21.19	L1	GND
4.956	FINAL	—	19.69	46.00	-26.31	L1	GND
16.564	FINAL	15.9	—	60.00	-44.11	L1	GND
16.564	FINAL	—	10.56	50.00	-39.44	L1	GND
29.236	FINAL	—	8.36	50.00	-41.64	L1	GND
29.236	FINAL	14.7	—	60.00	-45.28	L1	GND

Table 7-51. AC Line Conducted Data TxBF (NB UNII HDR4 ePA – 5844MHz) (L1) with AC/DC adaptor to USB-C cable with wire charger

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Plot 7-146. AC Line Conducted Plot TxBF (NB UNII HDR4 ePA – 5844MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	39.62	55.06	-15.44	N	GND
0.168	FINAL	51.5	—	65.06	-13.56	N	GND
0.254	FINAL	—	34.08	51.64	-17.56	N	GND
0.254	FINAL	46.8	—	61.64	-14.80	N	GND
0.670	FINAL	36.6	—	56.00	-19.37	N	GND
0.670	FINAL	—	22.07	46.00	-23.93	N	GND
4.956	FINAL	36.8	—	56.00	-19.23	N	GND
4.956	FINAL	—	22.11	46.00	-23.89	N	GND
7.800	FINAL	—	15.57	50.00	-34.43	N	GND
7.802	FINAL	23.1	—	60.00	-36.87	N	GND
29.708	FINAL	—	10.37	50.00	-39.63	N	GND
29.713	FINAL	16.8	—	60.00	-43.23	N	GND

Table 7-52. AC Line Conducted TxBF (NB UNII HDR4 ePA – 5844MHz) (N) with AC/DC adaptor to USB-C cable with wire charger

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Tablet Device** **FCC ID: BCGA3267** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

FCC ID: BCGA3267		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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