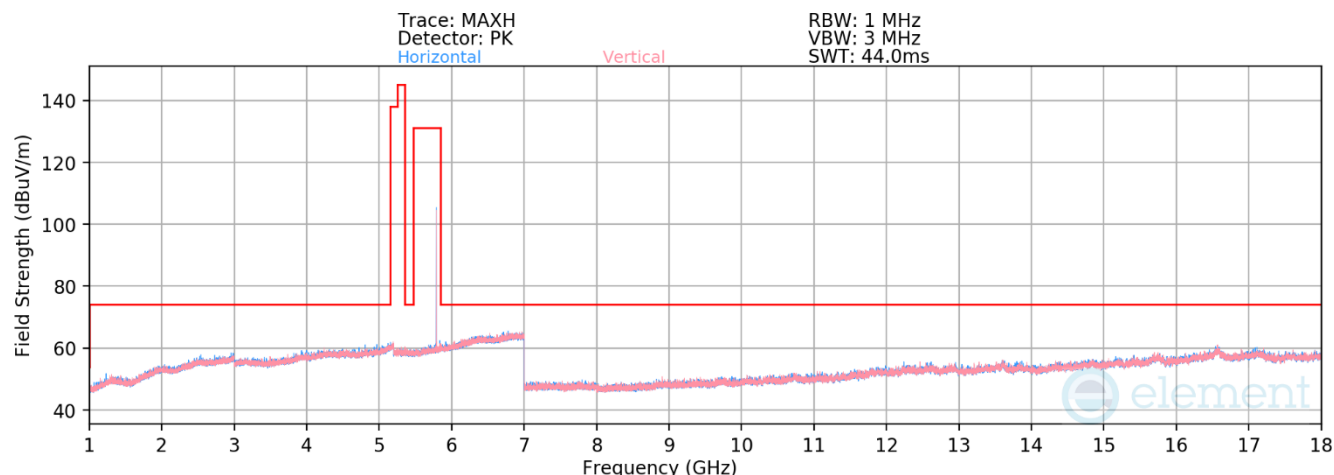
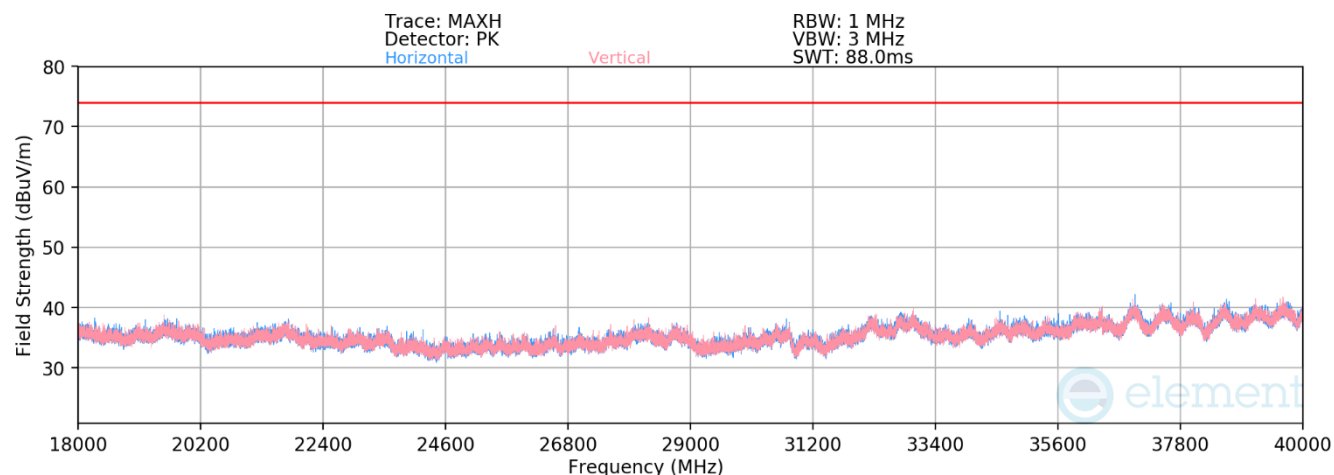




Plot 7-62. Radiated Spurious Emissions 1-18GHz (NB UNII BDR – 5789MHz)



Plot 7-63. Radiated Spurious Emissions Above 18GHz (NB UNII BDR – 5789MHz)

Mode:	NB UNII BDR
Data Rate:	1Mbps
Distance of Measurements:	3 Meters
Operating Frequency:	5789MHz

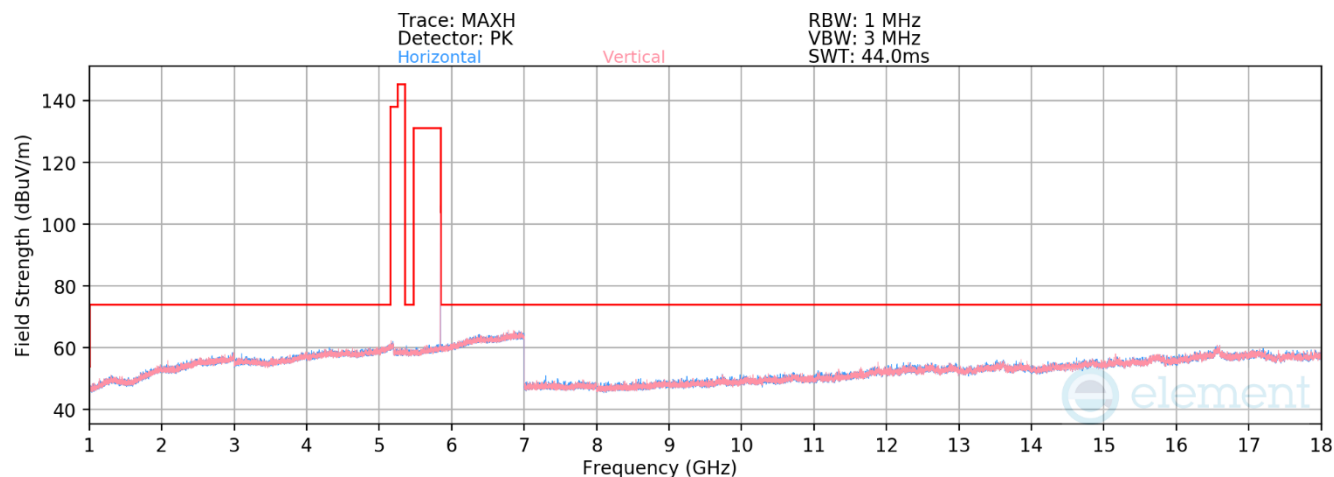
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11578.00	Average	H	-	-	-81.53	16.77	42.25	53.98	-11.73
* 11578.00	Peak	H	-	-	-70.18	16.77	53.59	73.98	-20.39
17367.00	Peak	V	-	-	-72.26	23.13	57.87	68.23	-10.36

Table 7-19. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 71 of 113

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Plot 7-64. Radiated Spurious Emissions 1-18GHz (NB UNII BDR – 5844MHz)

Mode: NB UNII BDR

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

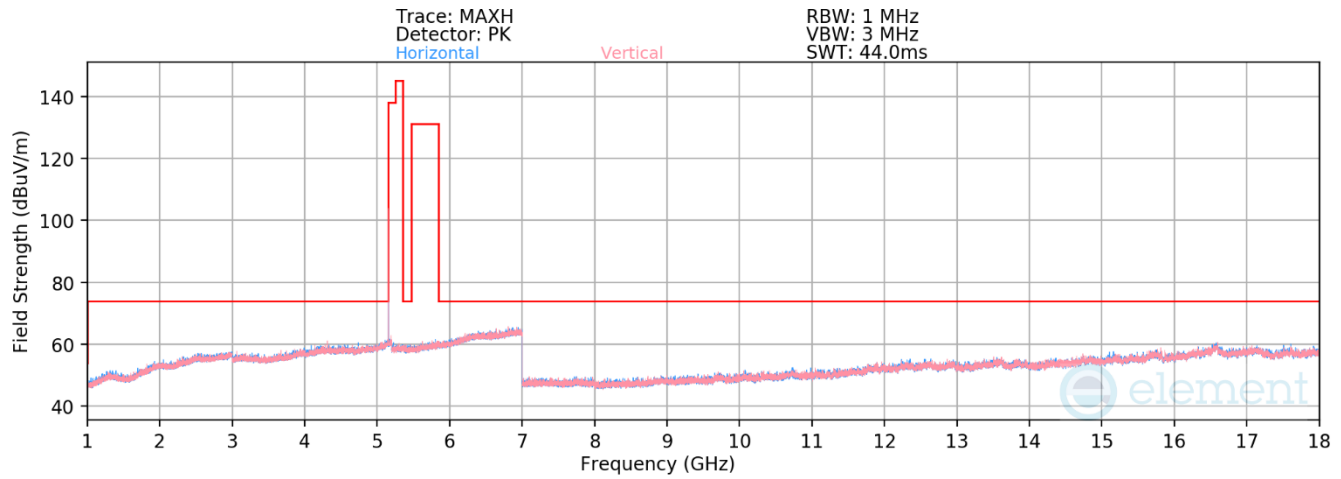
Operating Frequency: 5844MHz

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	H	-	-	-81.53	16.38	41.84	53.98	-12.14
* 11688.00	Peak	H	-	-	-70.38	16.38	53.00	73.98	-20.98
17532.00	Peak	H	-	-	-72.51	24.73	59.22	68.23	-9.01

Table 7-20. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 72 of 113

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Plot 7-65. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 5157MHz)

Mode: NB UNII HDR4

Data Rate: 4Mbps

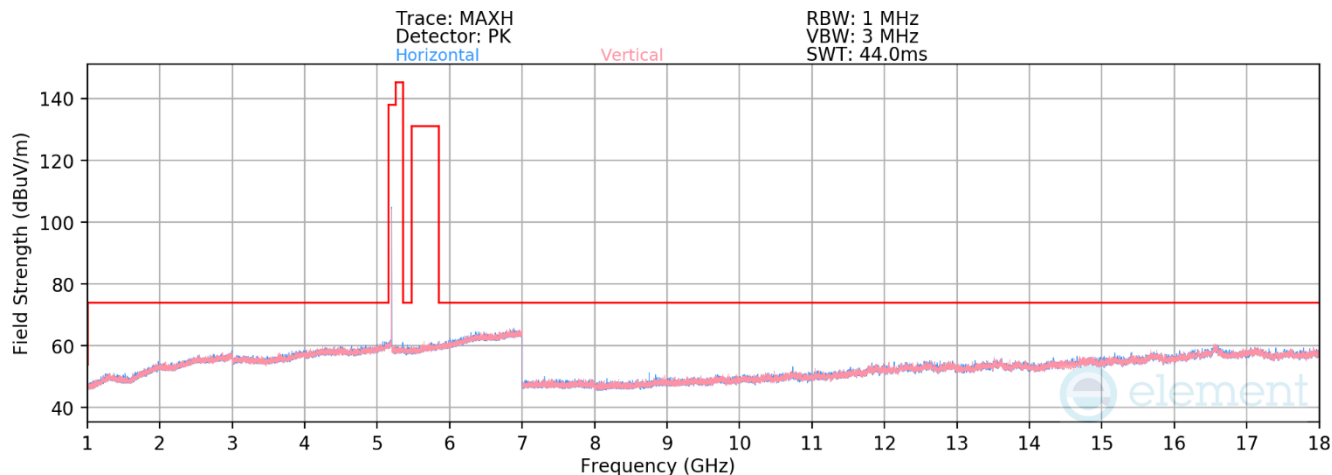
Distance of Measurements: 3 Meters

Operating Frequency: 5157MHz

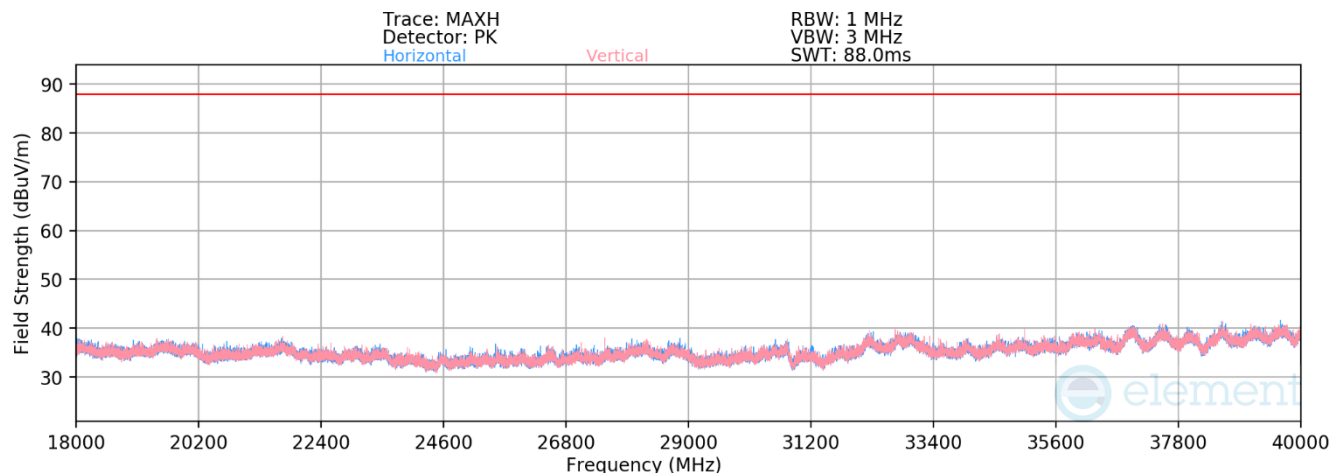
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10314.00	Peak	H	-	-	-69.88	14.26	0.00	51.38	68.23	-16.85
* 15471.00	Average	H	-	-	-84.56	23.03	0.00	45.46	53.98	-8.52
* 15471.00	Peak	H	-	-	-72.87	23.03	0.00	57.16	73.98	-16.82

Table 7-21. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 73 of 113



Plot 7-66. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 5204MHz)



Plot 7-67. Radiated Spurious Emissions Above 18GHz (NB UNII HDR4 – 5204MHz)

Mode: NB UNII HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5204MHz

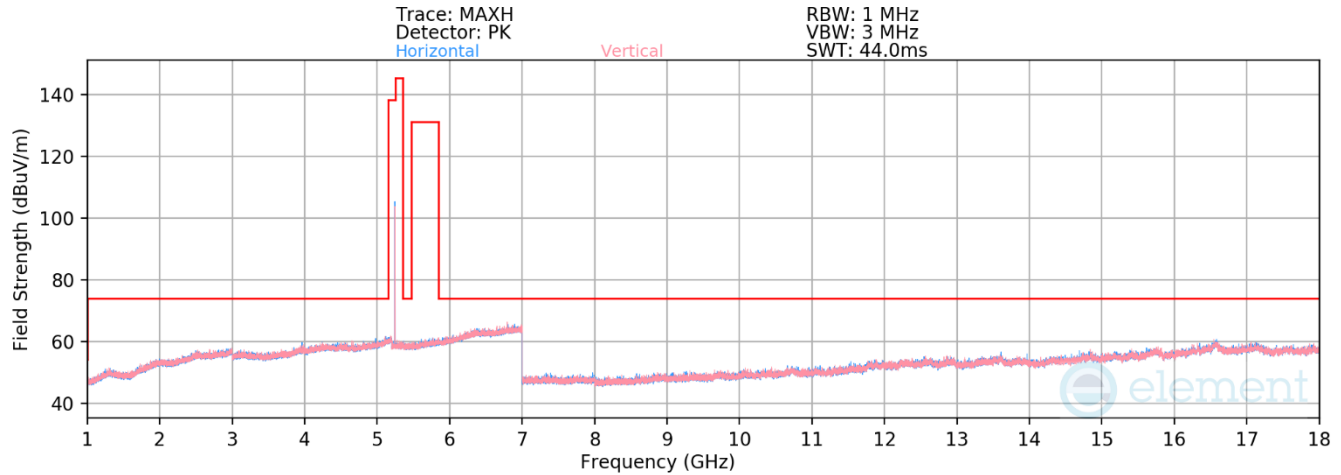
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10408.00	Peak	V	-	-	-70.14	14.92	0.00	51.78	68.23	-16.45
* 15612.00	Average	H	-	-	-84.36	23.17	0.00	45.81	53.98	-8.17
* 15612.00	Peak	H	-	-	-73.19	23.17	0.00	56.97	73.98	-17.01

Table 7-22. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 74 of 113

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Plot 7-68. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 5245MHz)

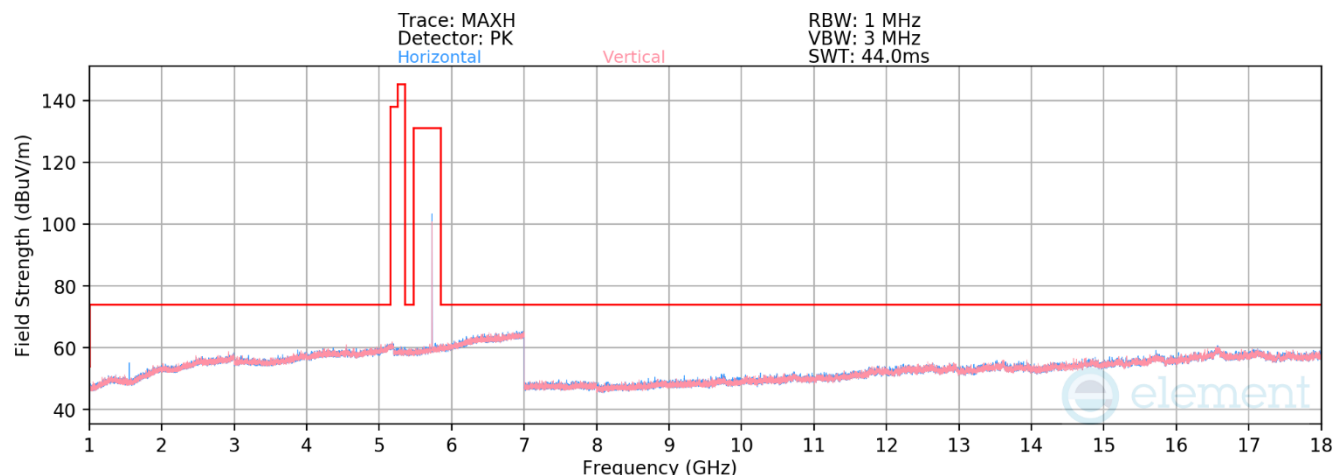
Mode: NB UNII HDR4
Data Rate: 4Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5245MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10490.00	Peak	V	-	-	-70.18	14.37	0.00	51.19	68.23	-17.04
* 15735.00	Average	H	-	-	-84.44	23.96	0.00	46.51	53.98	-7.47
* 15735.00	Peak	H	-	-	-72.74	23.96	0.00	58.21	73.98	-15.77

Table 7-23. Radiated Spurious Emissions Measurements TxBF Primary

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 75 of 113

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Plot 7-69. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 5733MHz)

Mode: NB UNII HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

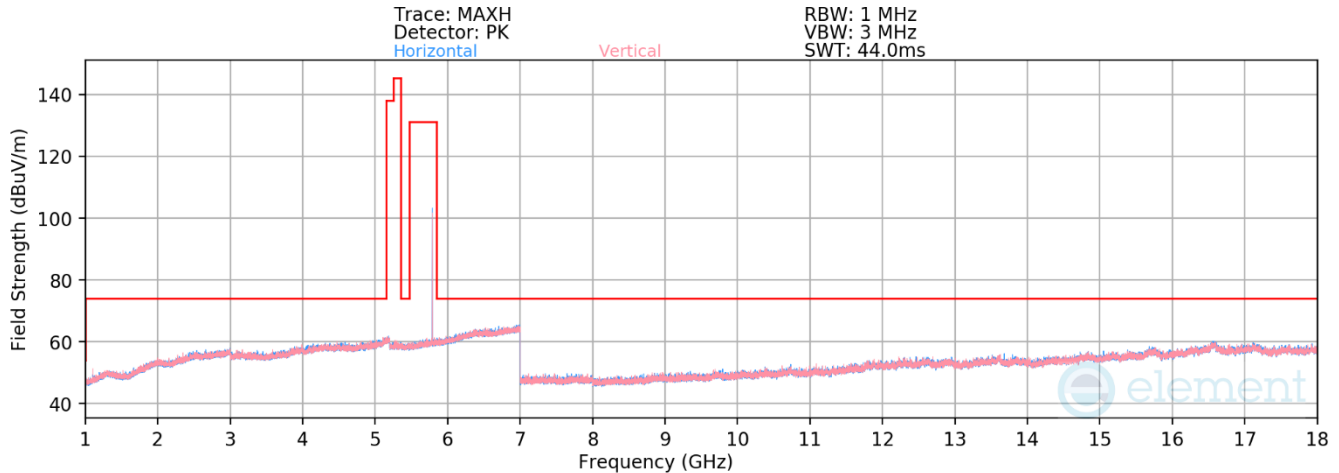
Operating Frequency: 5731MHz

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11462.00	Average	V	-	-	-82.46	16.44	0.00	40.98	53.98	-13.00
* 11462.00	Peak	V	-	-	-70.85	16.44	0.00	52.59	73.98	-21.39
17193.00	Peak	V	-	-	-71.83	23.84	0.00	59.01	68.23	-9.22

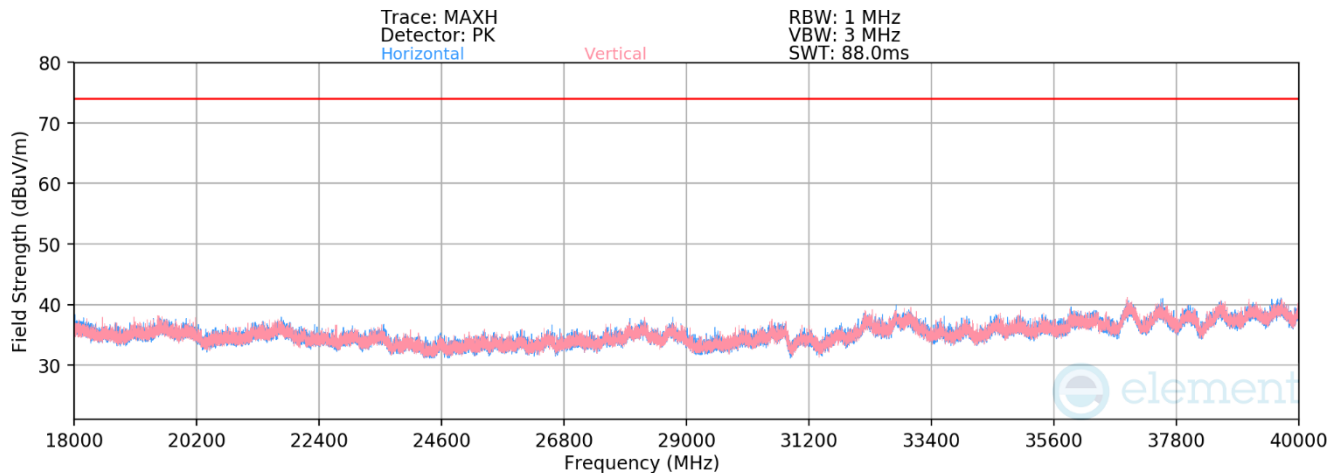
Table 7-24. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 76 of 113

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Plot 7-70. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 5789MHz)



Plot 7-71. Radiated Spurious Emissions Above 18GHz (NB UNII HDR4 – 5789MHz)

Mode: NB UNII HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5789MHz

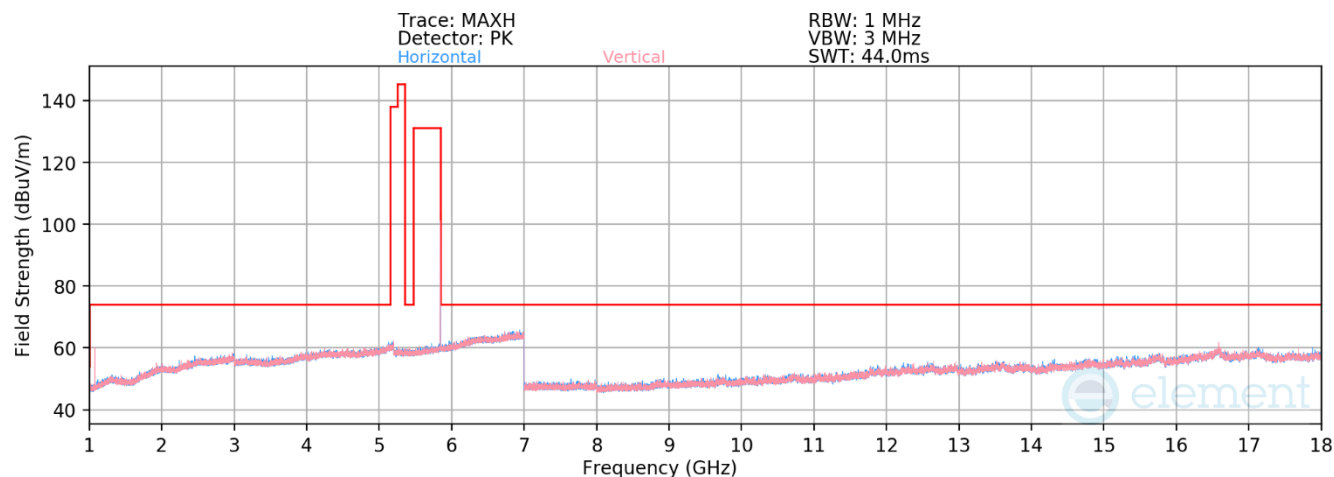
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11578.00	Average	V	-	-	-82.29	16.98	0.00	41.69	53.98	-12.29
* 11578.00	Peak	V	-	-	-70.73	16.98	0.00	53.25	73.98	-20.73
17367.00	Peak	V	-	-	-72.07	23.13	0.00	58.06	68.23	-10.17

Table 7-25. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 77 of 113

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Plot 7-72. Radiated Spurious Emissions 1-18GHz (NB UNII HDR4 – 5844MHz)

Mode: NB UNII HDR4

Data Rate: 4Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5844MHz

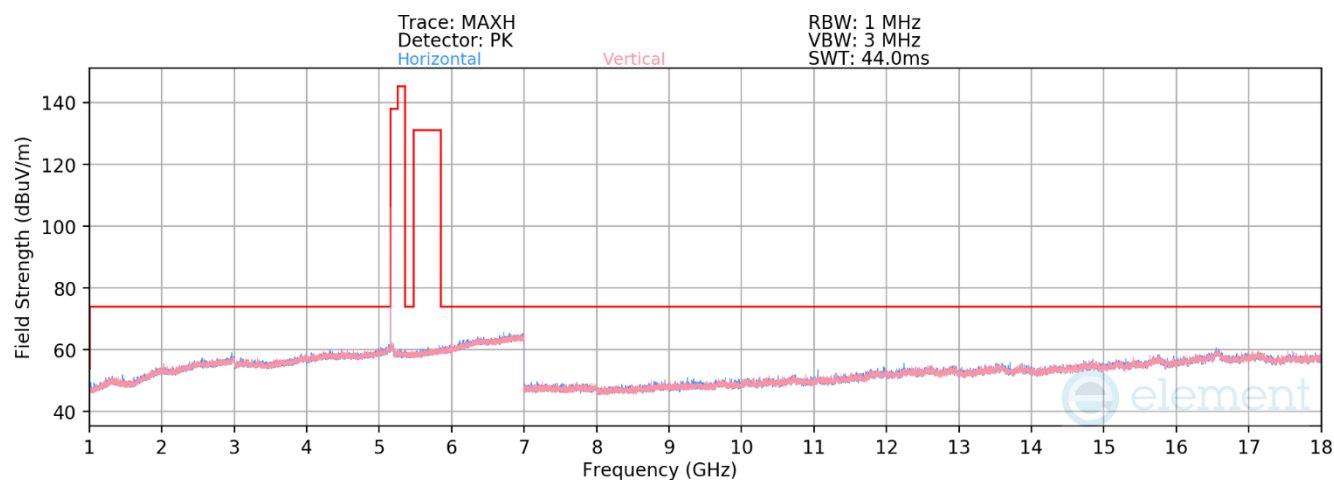
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11688.00	Average	H	-	-	-81.64	16.38	0.00	41.74	53.98	-12.24
* 11688.00	Peak	H	-	-	-70.62	16.38	0.00	52.76	73.98	-21.22
17532.00	Peak	H	-	-	-72.72	24.61	0.00	58.89	68.23	-9.34

Table 7-26. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 78 of 113

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LE



Plot 7-73. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M - 5157MHz)

Mode: NB UNII LE1M

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5157MHz

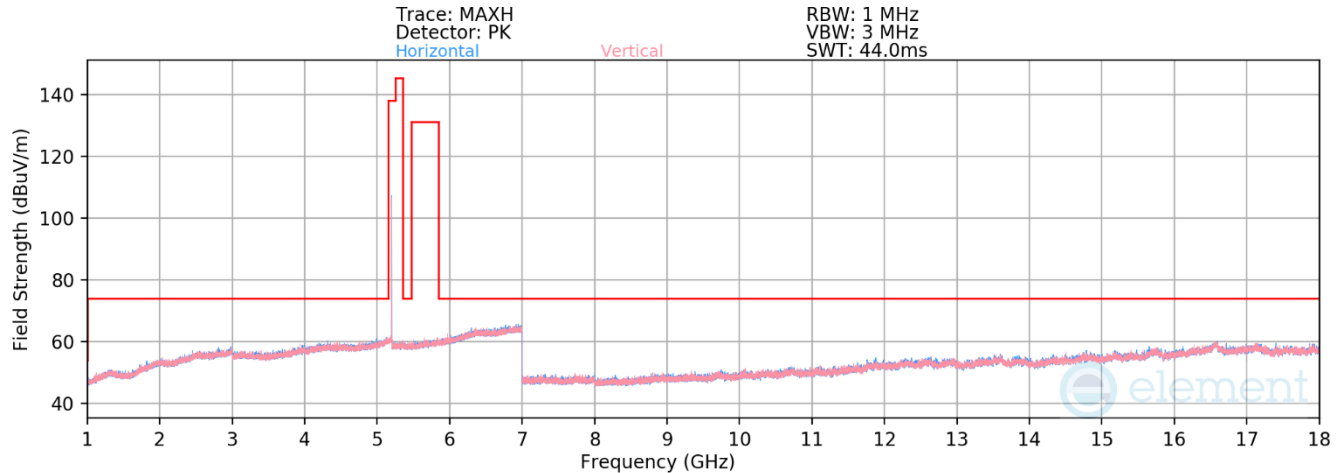
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10314.00	Peak	V	-	-	-69.79	14.54	51.75	68.23	-16.48
* 15471.00	Average	V	-	-	-84.36	23.03	45.67	53.98	-8.31
* 15471.00	Peak	V	-	-	-72.56	23.03	57.47	73.98	-16.51

Table 7-27. Radiated Spurious Emissions Measurements

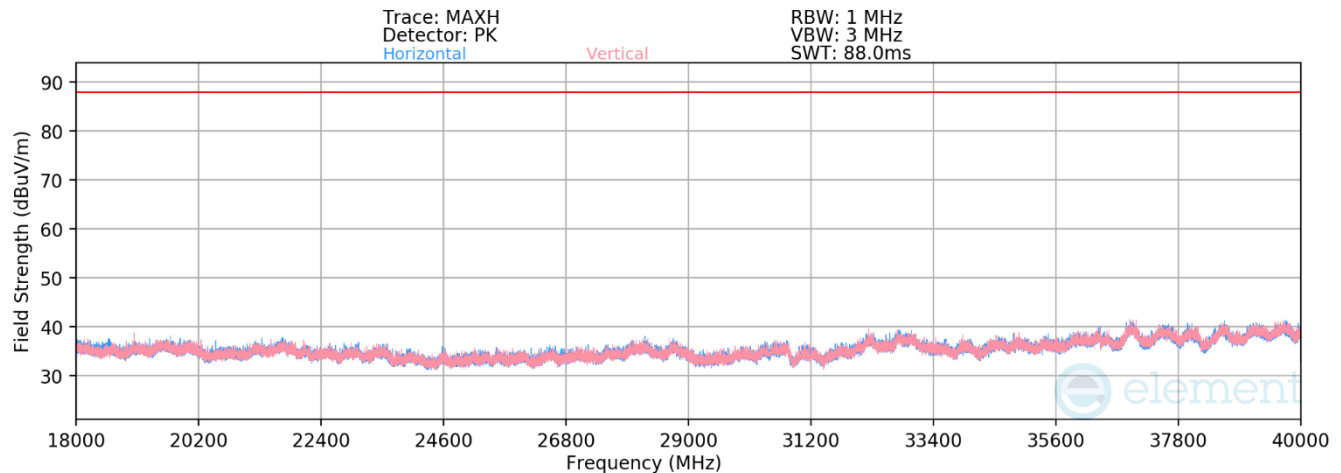
FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 79 of 113

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Plot 7-74. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M – 5204MHz)



Plot 7-75. Radiated Spurious Emissions Above 18GHz (NB UNII LE1M – 5204MHz)

Mode: NB UNII LE1M

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5204MHz

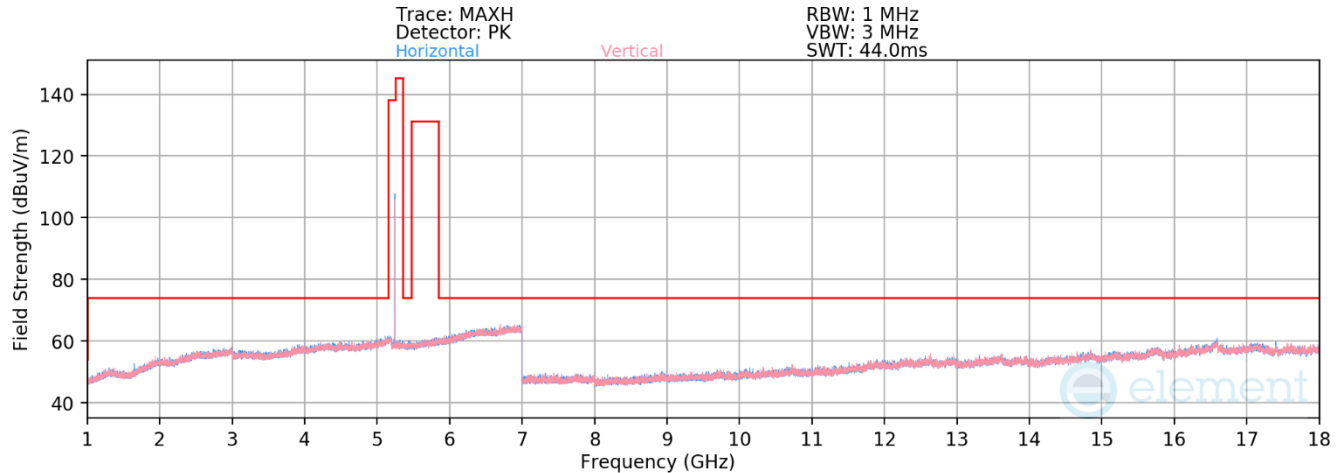
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
10408.00	Peak	H	-	-	-70.25	14.55	51.30	68.23	-16.93
* 15612.00	Average	V	-	-	-84.39	23.17	45.77	53.98	-8.21
* 15612.00	Peak	V	-	-	-73.22	23.17	56.94	73.98	-17.04

Table 7-28. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 80 of 113

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Plot 7-76. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M - 5245MHz)

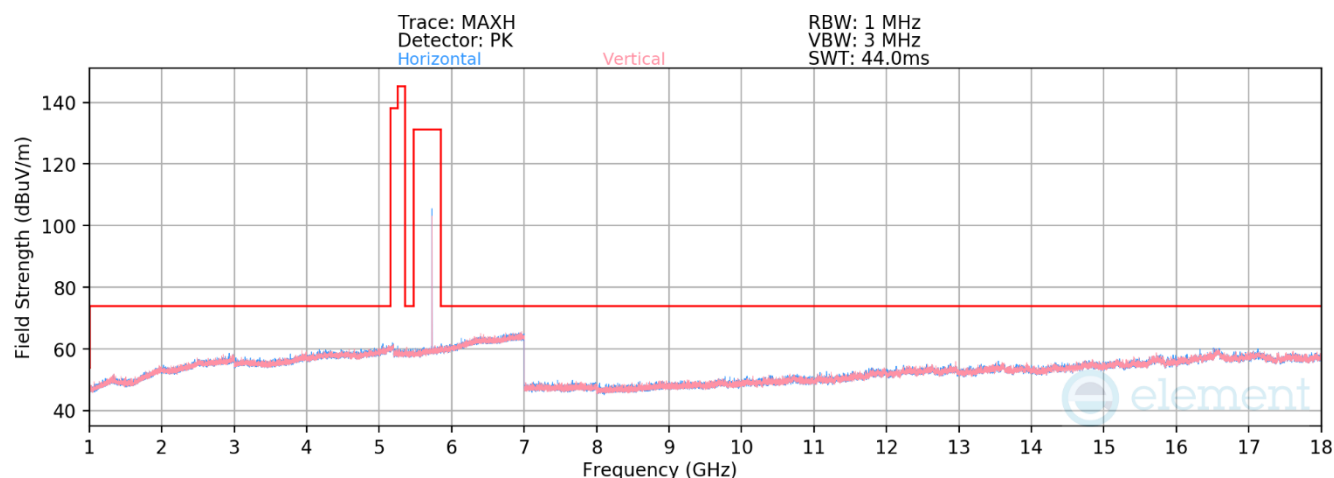
Mode: NB UNII LE1M
Data Rate: 1Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 5245MHz

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	-	-	-70.18	14.37	51.19	68.23	-17.04
* 15735.00	Average	H	-	-	-84.41	24.41	47.00	53.98	-6.98
* 15735.00	Peak	H	-	-	-73.06	24.41	58.35	73.98	-15.63

Table 7-29. Radiated Spurious Emissions Measurements TxBF Primary

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 81 of 113

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Plot 7-77. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M – 5733MHz)

Mode: NB UNII LE1M

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

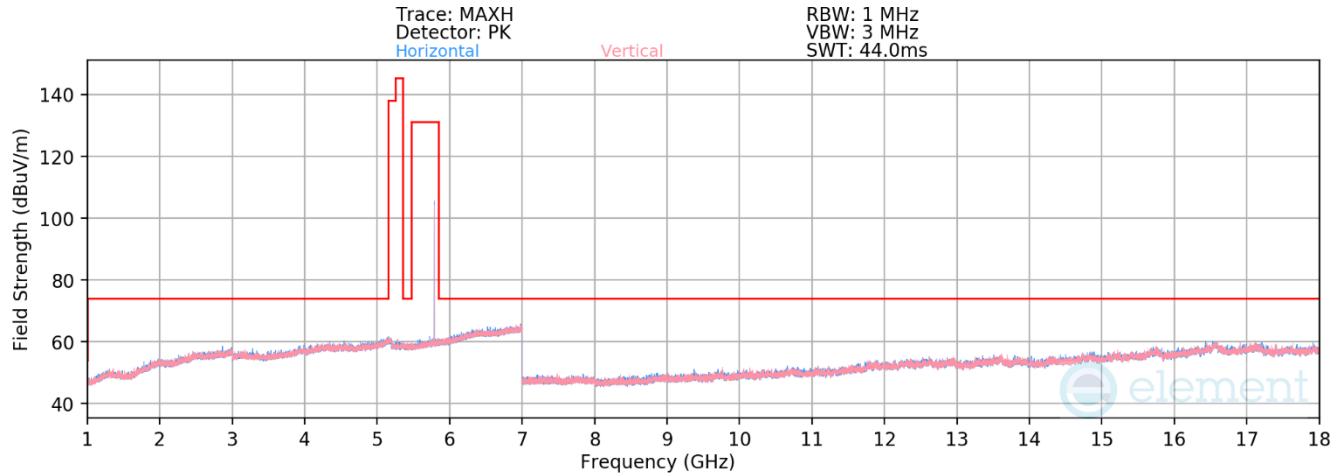
Operating Frequency: 5731MHz

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]
* 11462.00	Average	V	-	-	-82.61	16.44	40.83	53.98	-13.15
* 11462.00	Peak	V	-	-	-70.94	16.44	52.50	73.98	-21.48
17193.00	Peak	H	-	-	-72.02	23.84	58.82	68.23	-9.41

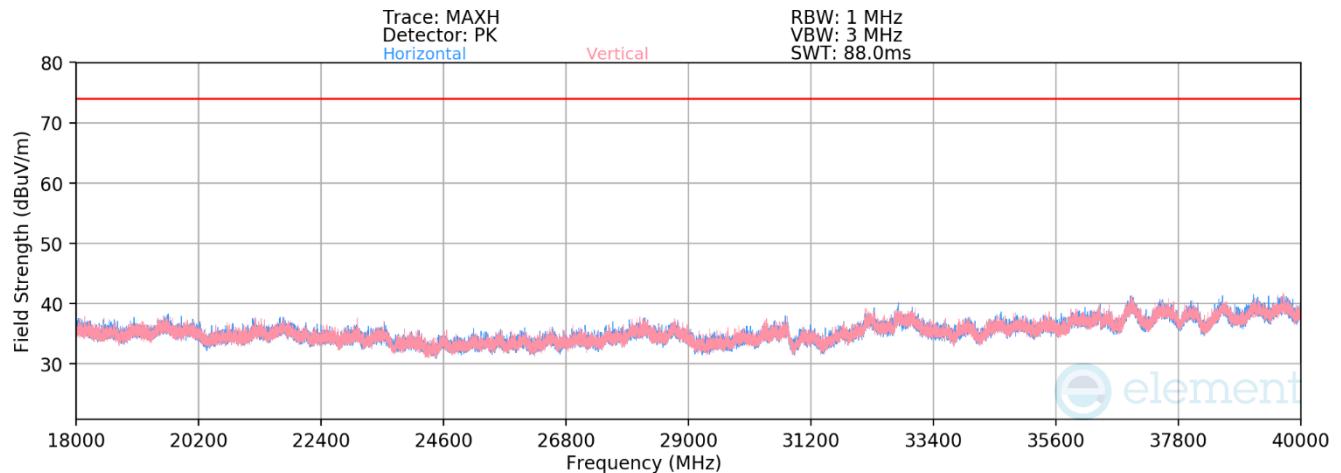
Table 7-30. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 82 of 113

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Plot 7-78. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M - 5789MHz)



Plot 7-79. Radiated Spurious Emissions Above 18GHz (NB UNII LE1M - 5789MHz)

Mode: NB UNII LE1M

Data Rate: 1Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 5789MHz

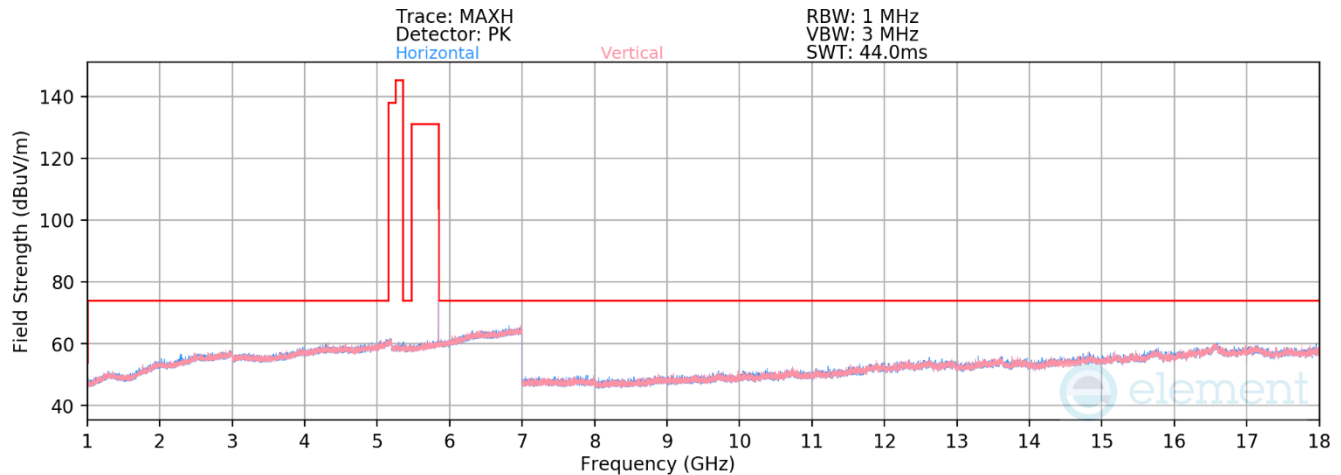
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	Limit [dBuV/m]	Margin [dB]
* 11578.00	Average	V	-	-	-82.16	16.98	41.82	53.98	-12.16
* 11578.00	Peak	V	-	-	-70.90	16.98	53.08	73.98	-20.90
17367.00	Peak	V	-	-	-72.36	23.55	58.18	68.23	-10.05

Table 7-31. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)						Approved by: Technical Manager	
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device						Page 83 of 113	

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Plot 7-80. Radiated Spurious Emissions 1-18GHz (NB UNII LE1M - 5844MHz)

Mode: NB UNII LE1M

Data Rate: 1Mbps

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	-	-	-81.63	17.03	42.40	53.98	-11.58
* 11688.00	Peak	V	-	-	-70.78	17.03	53.25	73.98	-20.73
17532.00	Peak	V	-	-	-72.75	24.61	58.86	68.23	-9.37

Table 7-32. Radiated Spurious Emissions Measurements

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 84 of 113

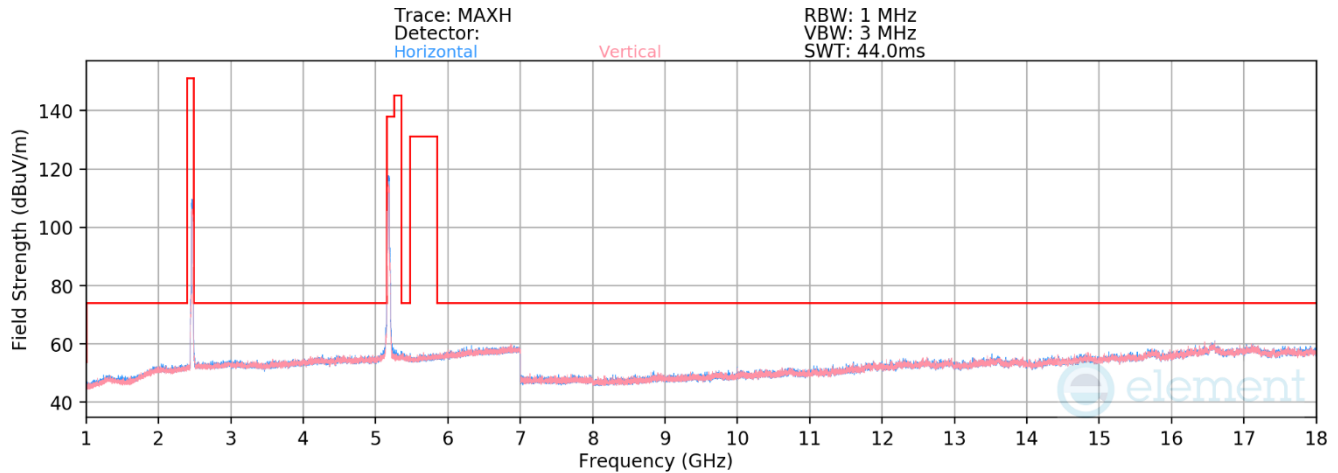
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7.6.2 Simultaneous TX Radiated Spurious Emissions Measurements

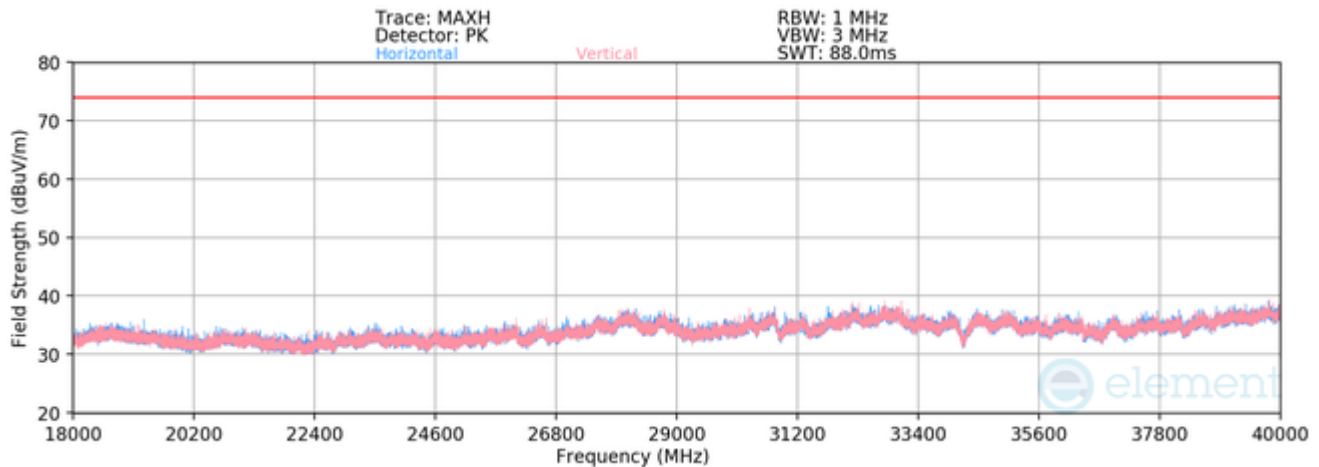
§15.407(b) §15.205 §15.209

Description	Bluetooth 2.4GHz	NB UNII
Antenna	NB UNII_L	NB UNII_L
Operating Frequency (MHz)	2480	5157
Mode/Modulation	LE1M	NB UNII LE1M

Table 7-33. Worst Case Simultaneous Transmission Configuration



Plot 7-81. Radiated Spurious Emissions Simultaneous Transmission (1-18GHz)



Plot 7-82. Radiated Spurious Emissions Simultaneous Transmission (Above 18GHz)

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 85 of 113

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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]
4960.00	Avg	H	-	-	-80.04	17.45	44.41	53.98	-9.57
4960.00	Peak	H	-	-	-69.88	17.45	54.57	73.98	-19.41
7440.00	Avg	H	-	-	-80.58	11.42	37.84	53.98	-16.14
7440.00	Peak	H	-	-	-69.16	11.42	49.26	73.98	-24.72
12400.00	Avg	H	-	-	-82.76	18.01	42.25	53.98	-11.73
12400.00	Peak	H	-	-	-71.05	18.01	53.96	73.98	-20.02

Table 7-34. Bluetooth Harmonics Emissions Measurements in Simultaneous Transmission Mode

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]
10314.00	Peak	-	-	-	-69.78	14.30	51.52	68.20	-16.68
15471.00	Avg	-	-	-	-84.10	22.92	45.82	53.98	-8.16
15471.00	Peak	-	-	-	-72.61	22.92	57.31	73.98	-16.67

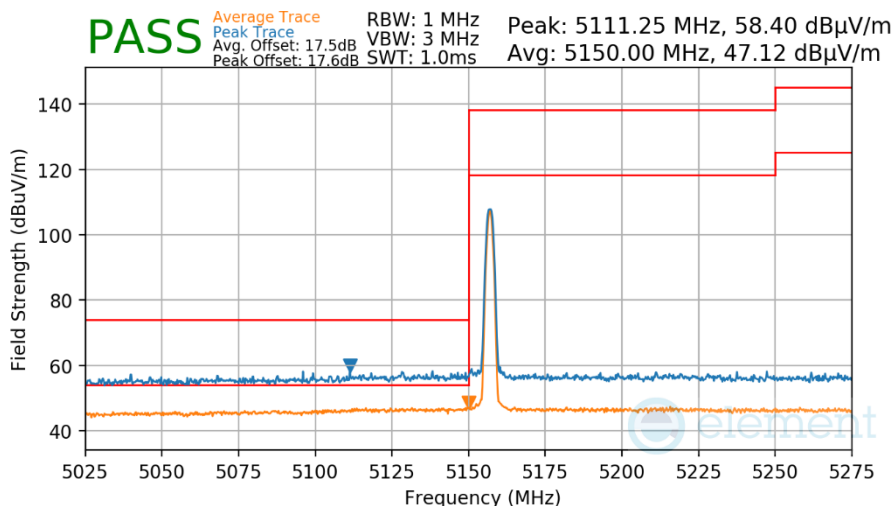
Table 7-35. NB UNII Harmonics Emissions Measurements in Simultaneous Transmission Mode

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device		Page 86 of 113

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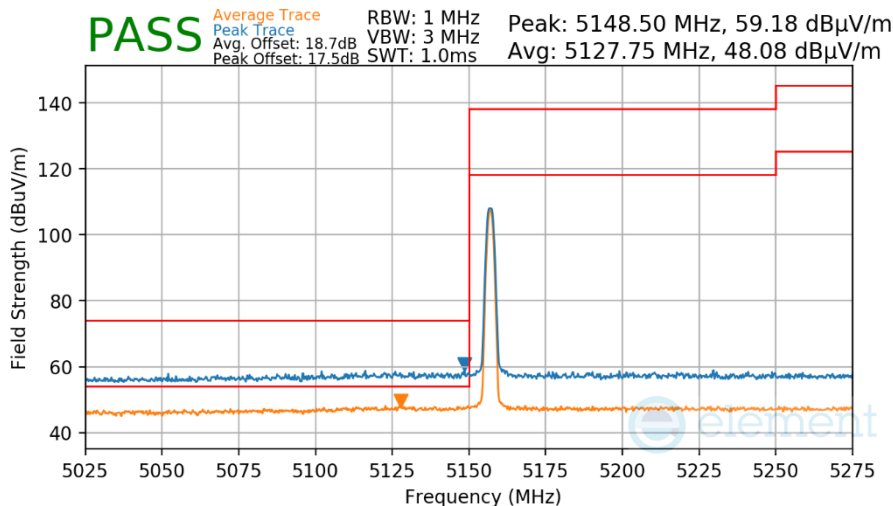
7.6.3 Radiated Band Edge Measurements (U-NII-1)

Mode	NB UNII BDR
Distance of Measurement	3 Meters
Operating Frequency	5157MHz



Plot 7-83 Radiated Lower Band Edge Measurement

Mode	NB UNII LE1M
Distance of Measurement	3 Meters
Operating Frequency	5157MHz

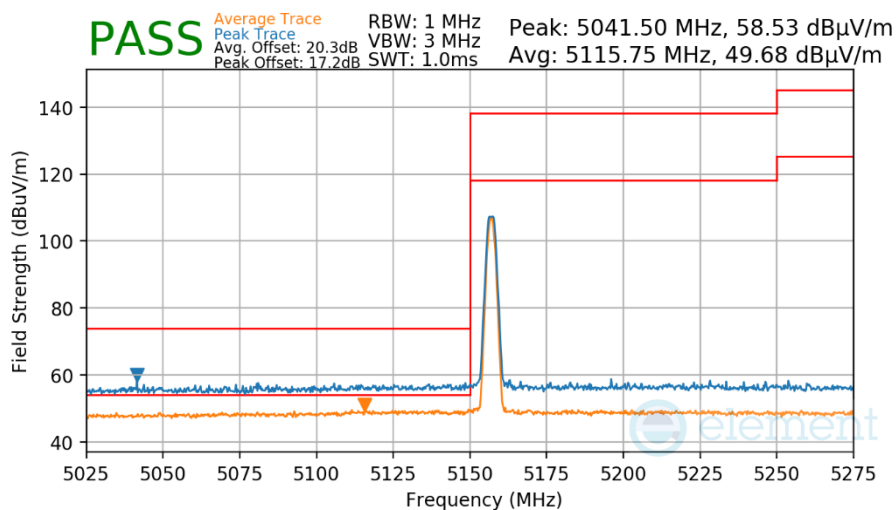


Plot 7-84 Radiated Lower Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 87 of 113

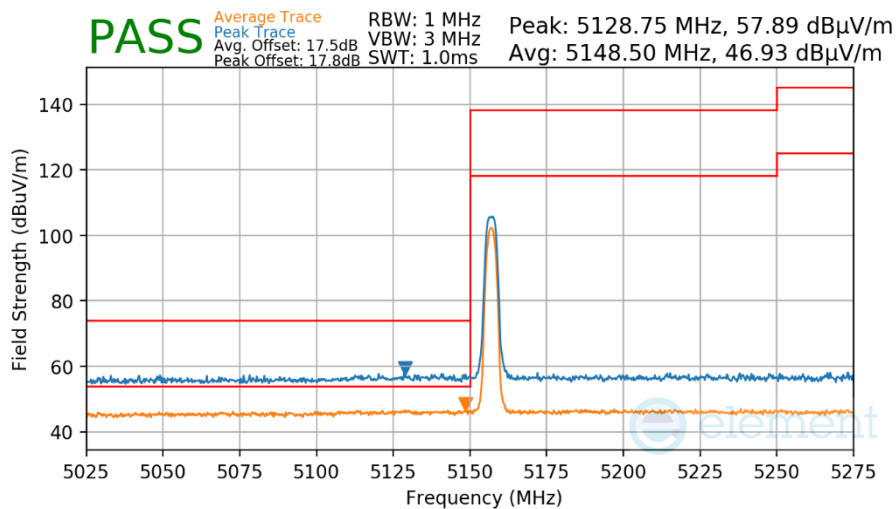
V 11.0 06/2025

Mode NB UNII LE2M
Distance of Measurement 3 Meters
Operating Frequency 5157MHz



Plot 7-85 Radiated Lower Band Edge Measurement

Mode NB UNII HDR4
Distance of Measurement 3 Meters
Operating Frequency 5157MHz



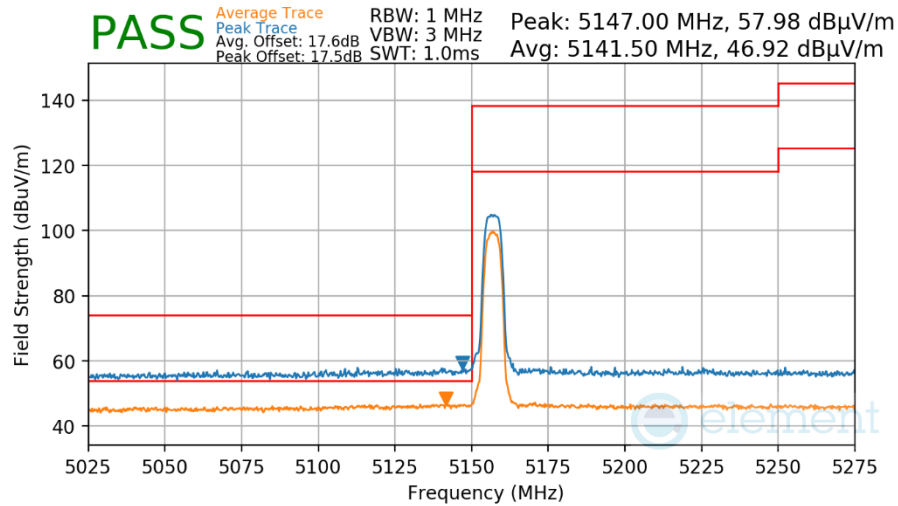
Plot 7-86 Radiated Lower Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 88 of 113

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Mode
Distance of Measurement
Operating Frequency

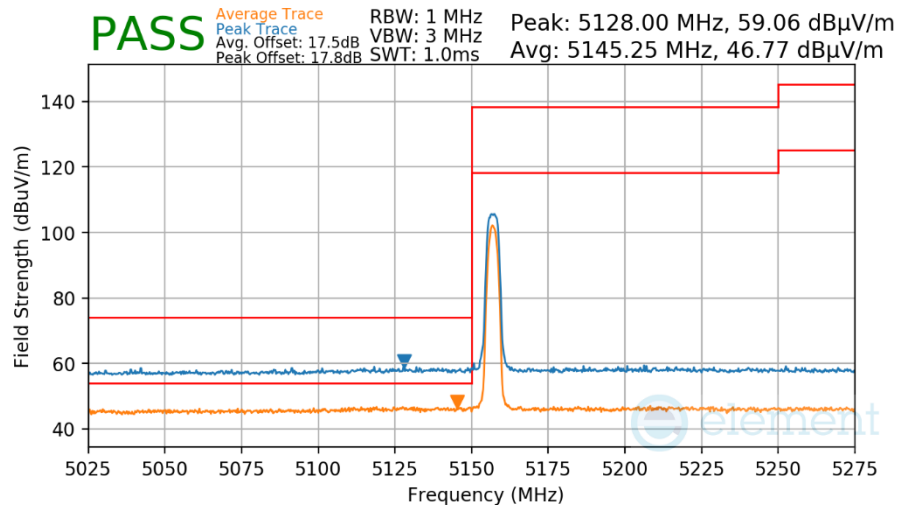
NB UNII HDR8
3 Meters
5157MHz



Plot 7-87 Radiated Lower Band Edge Measurement

Mode
Distance of Measurement
Operating Frequency

NB UNII HDRp4
3 Meters
5157MHz

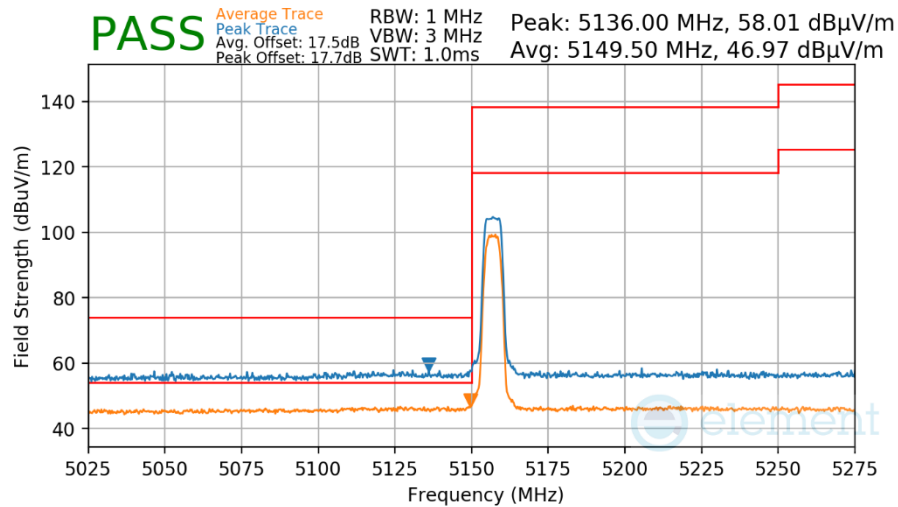


Plot 7-88 Radiated Lower Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 89 of 113

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Mode NB UNII HDRp8
Distance of Measurement 3 Meters
Operating Frequency 5157MHz



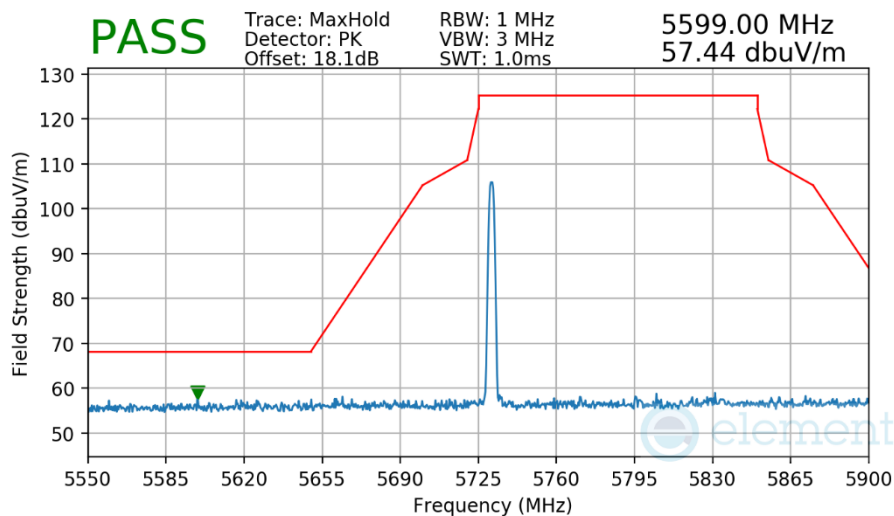
Plot 7-89 Radiated Lower Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 90 of 113

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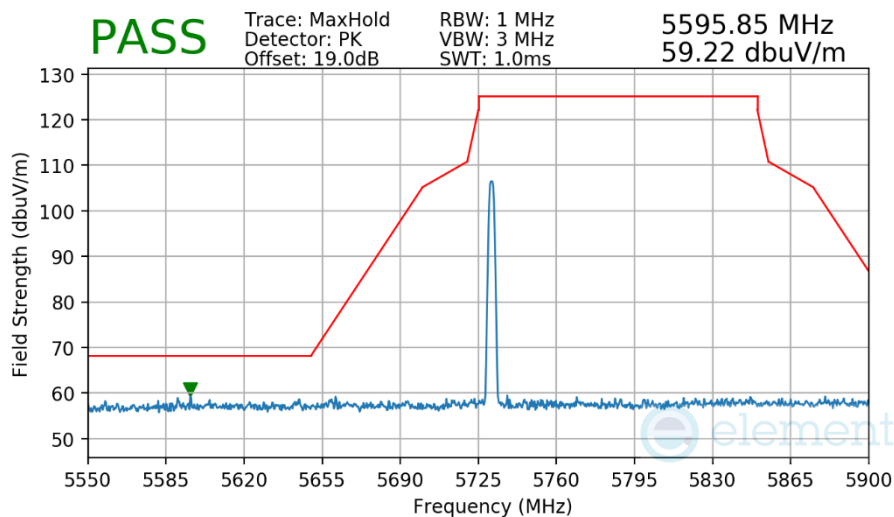
7.6.4 Radiated Band Edge Measurements (U-NII-3)

Mode	NB UNII BDR
Distance of Measurement	3 Meters
Operating Frequency	5731MHz



Plot 7-90 Radiated Lower Band Edge Measurement

Mode	NB UNII LE1M
Distance of Measurement	3 Meters
Operating Frequency	5731MHz



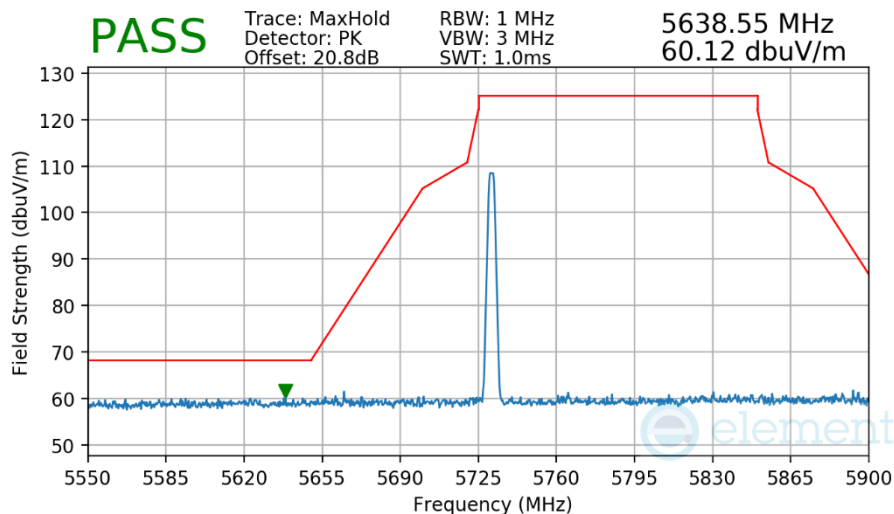
Plot 7-91 Radiated Lower Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 91 of 113

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Mode
Distance of Measurement
Operating Frequency

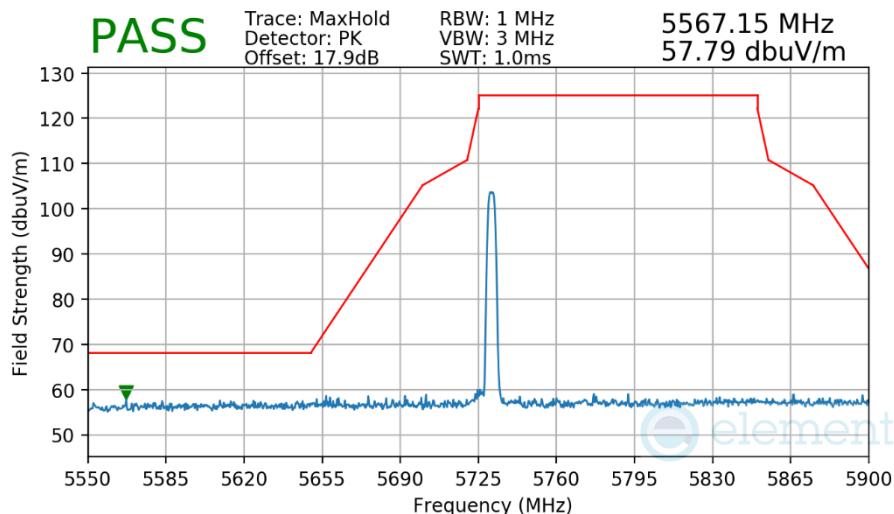
NB UNII LE2M
3 Meters
5731MHz



Plot 7-92 Radiated Lower Band Edge Measurement

Mode
Distance of Measurement
Operating Frequency

NB UNII HDR4
3 Meters
5731MHz



Plot 7-93 Radiated Lower Band Edge Measurement

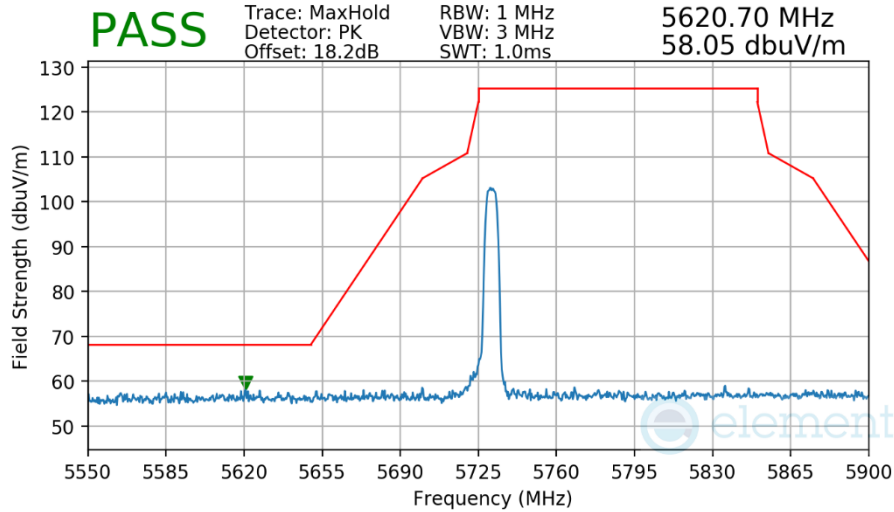
FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 92 of 113

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Mode
Distance of Measurement
Operating Frequency

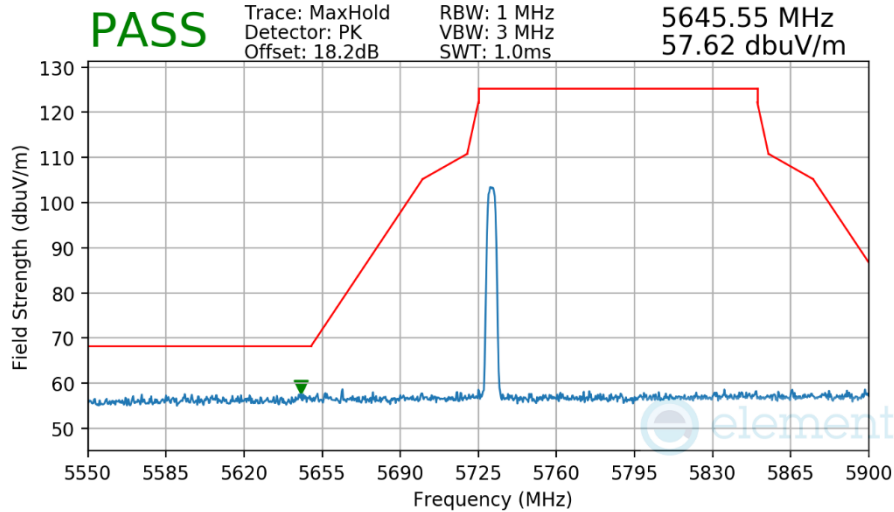
NB UNII HDR8
3 Meters
5731MHz



Plot 7-94 Radiated Lower Band Edge Measurement

Mode
Distance of Measurement
Operating Frequency

NB UNII HDRp4
3 Meters
5731MHz

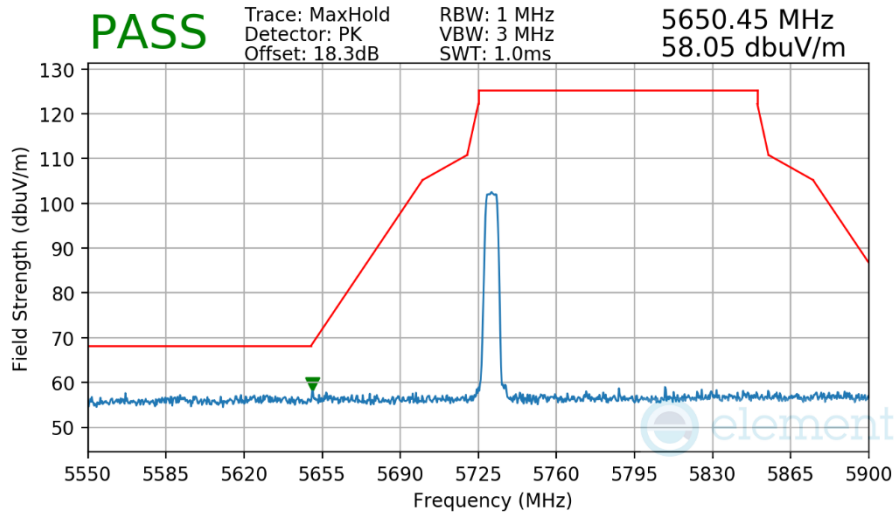


Plot 7-95 Radiated Lower Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 93 of 113

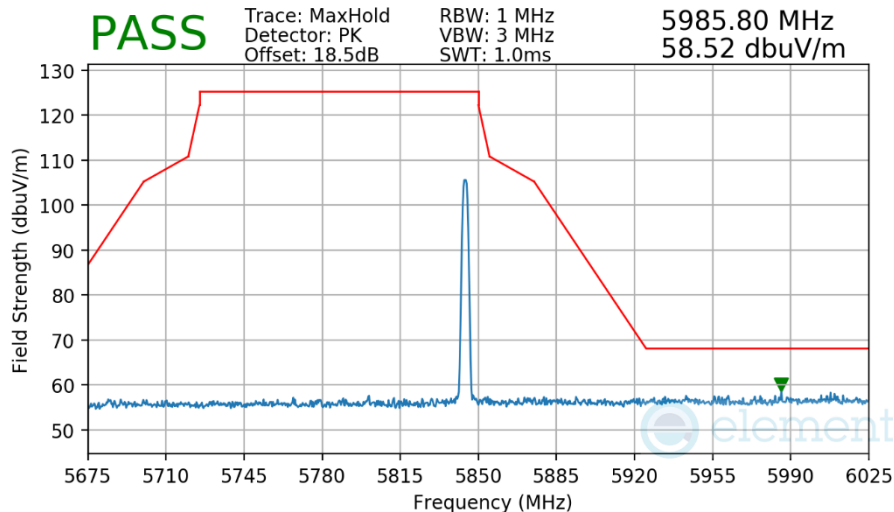
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Mode NB UNII HDRp8
Distance of Measurement 3 Meters
Operating Frequency 5731MHz



Plot 7-96 Radiated Lower Band Edge Measurement

Mode NB UNII BDR
Distance of Measurement 3 Meters
Operating Frequency 5844MHz

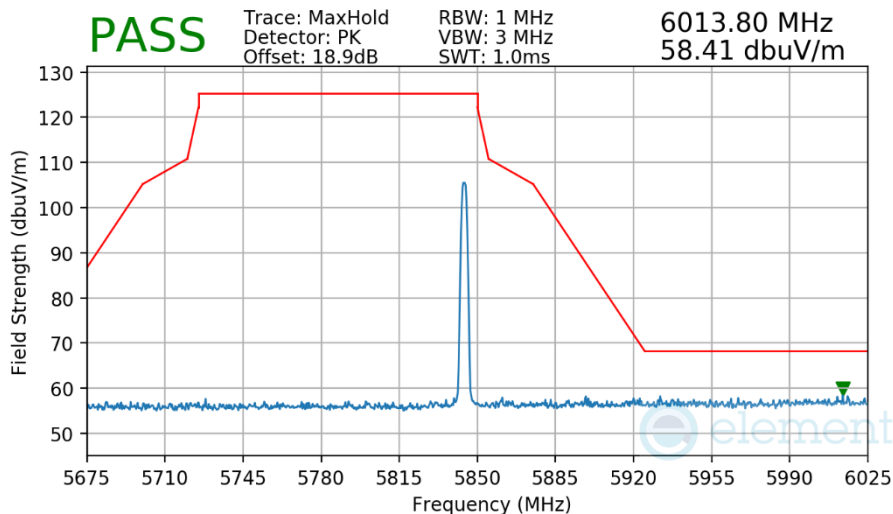


Plot 7-97 Radiated Higher Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 94 of 113

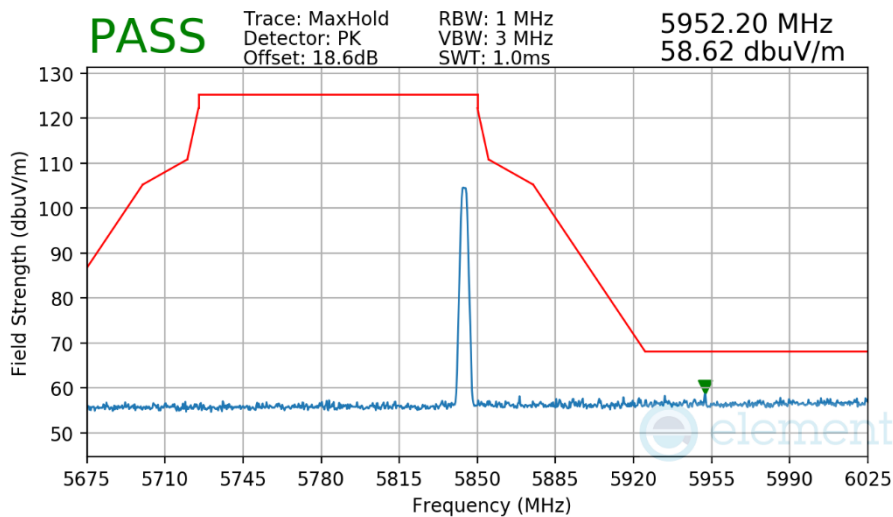
V 11.0 06/2025

Mode NB UNII LE1M
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-98 Radiated Higher Band Edge Measurement

Mode NB UNII LE2M
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



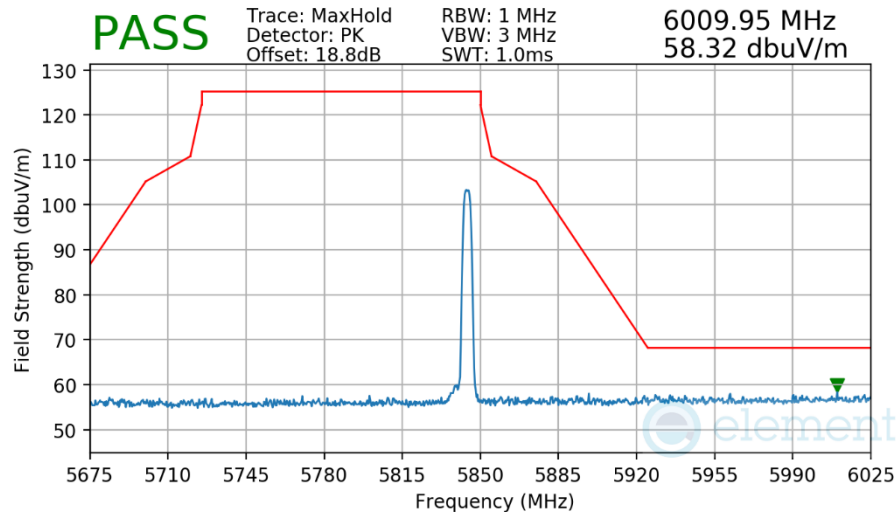
Plot 7-99 Radiated Higher Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 95 of 113

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Mode
Distance of Measurement
Operating Frequency

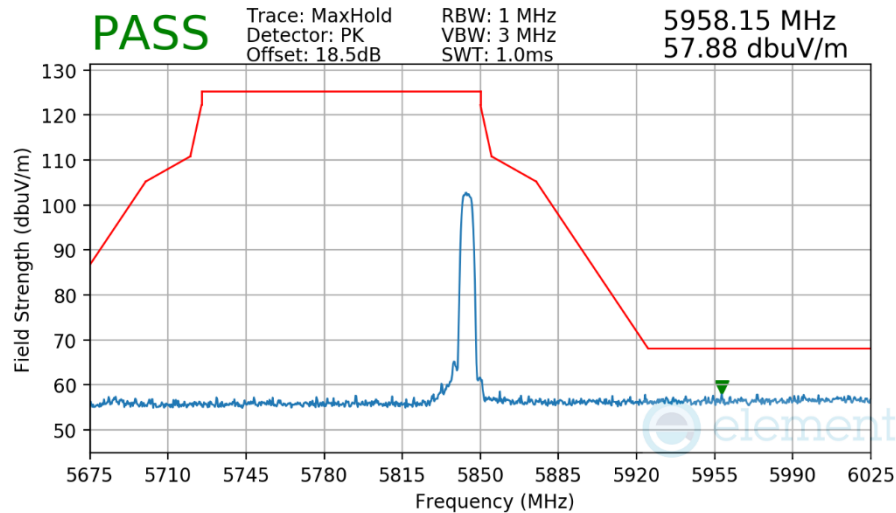
NB UNII HDR4
3 Meters
5844MHz



Plot 7-100 Radiated Higher Band Edge Measurement

Mode
Distance of Measurement
Operating Frequency

NB UNII HDR8
3 Meters
5844MHz

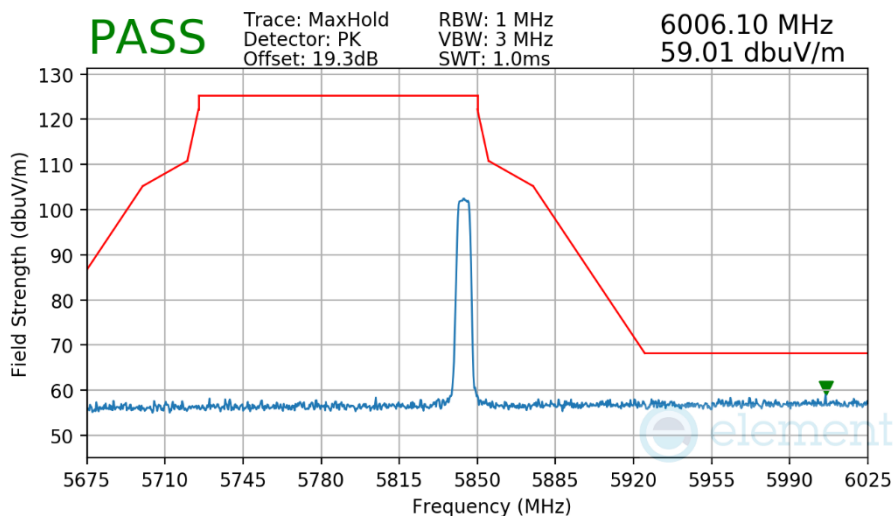


Plot 7-101 Radiated Higher Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 96 of 113

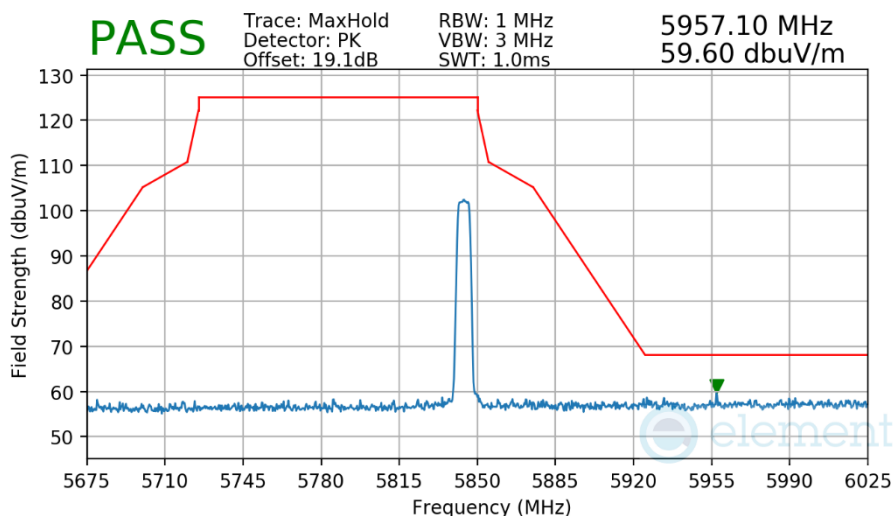
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Mode NB UNII HDRp4
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-102 Radiated Higher Band Edge Measurement

Mode NB UNII HDRp8
Distance of Measurement 3 Meters
Operating Frequency 5844MHz



Plot 7-103 Radiated Higher Band Edge Measurement

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-09.BCG	Test Dates: 5/12/2025 - 07/30/2025	EUT Type: Head Mounted Device	Page 97 of 113

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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 7-36 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 7-36. 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

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Test Setup

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

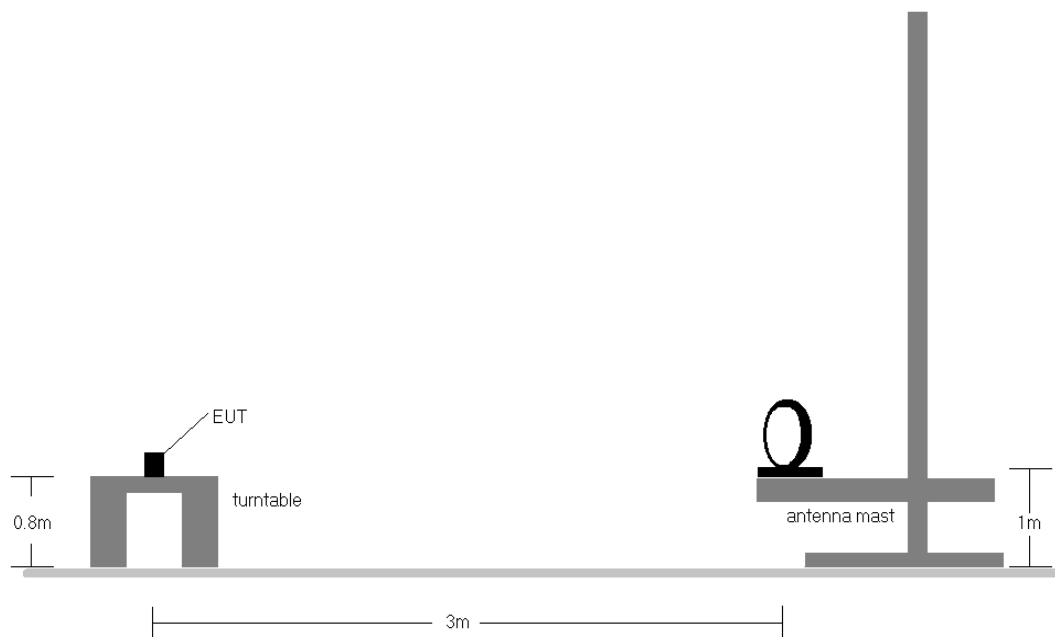


Figure 7-6. Radiated Test Setup < 30MHz

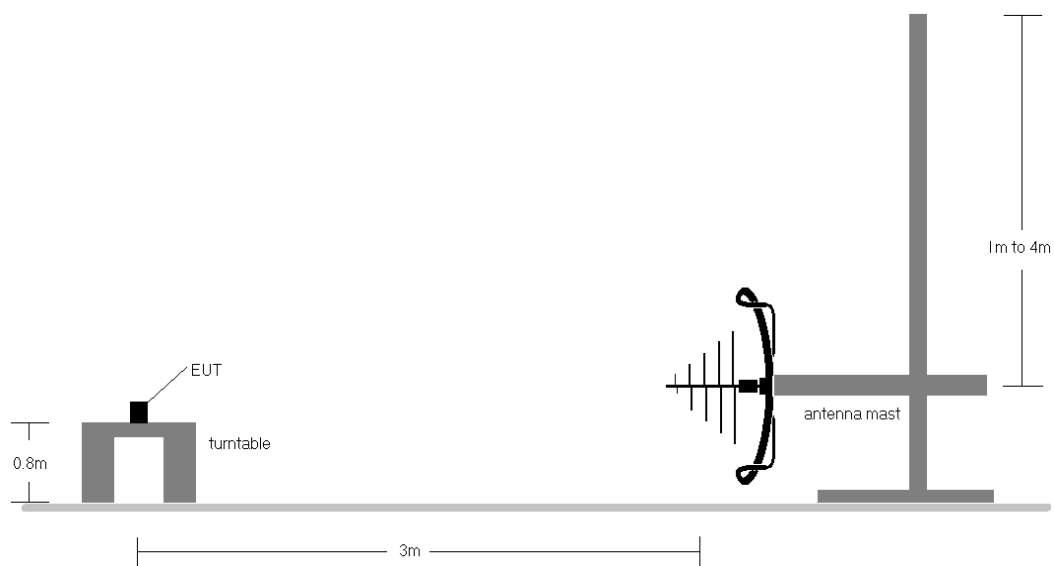


Figure 7-7. Radiated Test Setup < 1GHz

FCC ID: BCGA3416		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 7-36.
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 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 Power Pack to Magnetic Charging Cable
 - b. EUT powered by host PC via USB-C Power Pack to Magnetic Charging Cable

Sample Calculations

Determining Spurious Emissions Levels

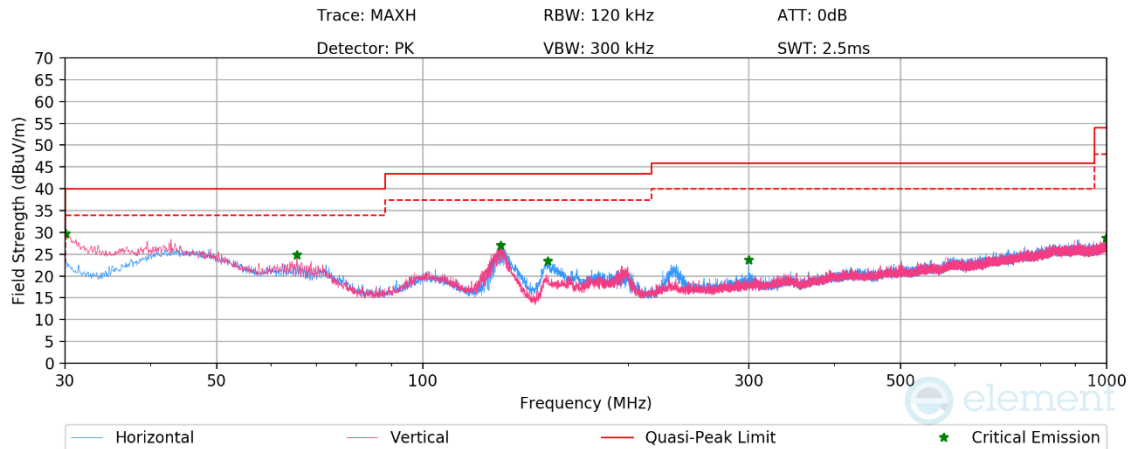
- Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level }_{[dBm]} + 107 + \text{AFCL }_{[dB/m]}$
- $\text{AFCL }_{[dB/m]} = \text{Antenna Factor }_{[dB/m]} + \text{Cable Loss }_{[dB]} - \text{Preamplifier Gain }_{[dB]}$
- $\text{Margin }_{[dB]} = \text{Field Strength Level }_{[dB\mu V/m]} - \text{Limit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

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Radiated Spurious Emissions (Below 1GHz)

\$15.209

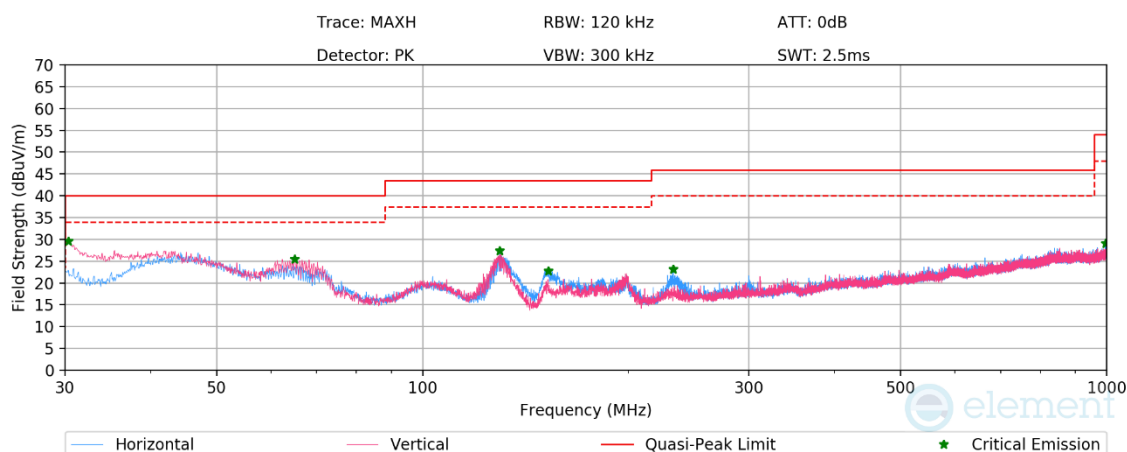


Plot 7-104. Radiated Spurious Emissions Below 1GHz (NB UNII BDR – 5789MHz), with AC/DC adaptor

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]
30.06	Max-Peak	V	100	-	-58.06	-19.21	29.73	40.00	-10.27
65.52	Max-Peak	V	200	-	-63.63	-18.58	24.79	40.00	-15.21
130.02	Max-Peak	V	100	-	-59.17	-20.75	27.08	43.50	-16.42
152.47	Max-Peak	H	100	-	-62.68	-20.96	23.36	43.50	-20.14
299.59	Max-Peak	H	100	-	-67.94	-15.43	23.63	46.00	-22.37
999.04	Max-Peak	V	100	-	-74.68	-3.57	28.75	54.00	-25.25

Table 7-37. Radiated Spurious Emissions Below 1GHz (NB UNII BDR – 5789MHz), with AC/DC adaptor

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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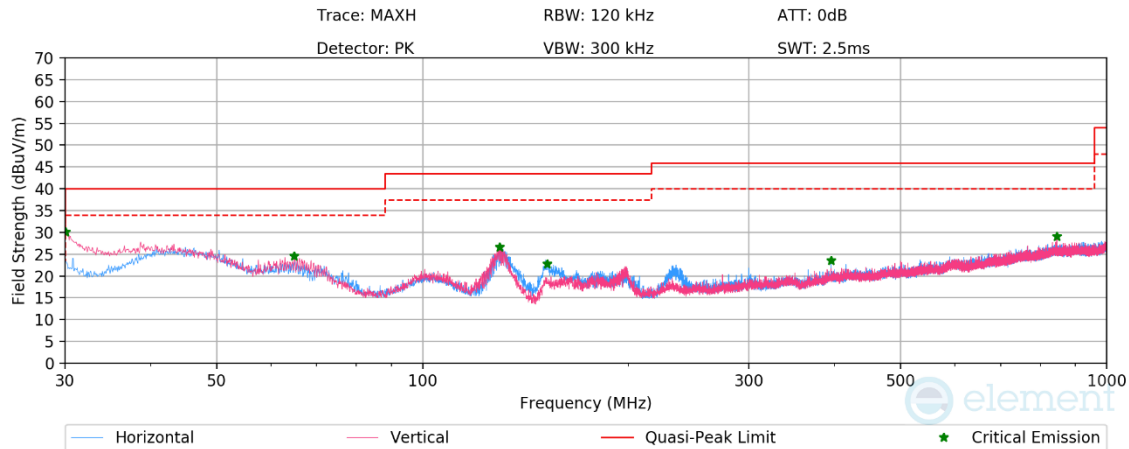
Plot 7-105. Radiated Spurious Emissions Below 1GHz (NB UNII LE1M – 5789MHz), with AC/DC adaptor

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]
30.36	Max-Peak	V	100	-	-58.11	-19.25	29.64	40.00	-10.36
64.98	Max-Peak	V	200	-	-63.22	-18.36	25.41	40.00	-14.59
129.48	Max-Peak	H	200	-	-58.87	-20.70	27.43	43.50	-16.07
152.71	Max-Peak	H	100	-	-63.28	-20.93	22.79	43.50	-20.71
232.51	Max-Peak	H	100	-	-67.01	-16.85	23.14	46.00	-22.86
996.28	Max-Peak	H	200	-	-74.35	-3.52	29.13	54.00	-24.87

Table 7-38. Radiated Spurious Emissions Below 1GHz (NB UNII LE1M – 5789MHz), with AC/DC adaptor

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-106. Radiated Spurious Emissions Below 1GHz (NB UNII HDR4 – 5789MHz), with AC/DC adaptor

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]
30.06	Max-Peak	V	100	-	-57.64	-19.21	30.15	40.00	-9.85
64.92	Max-Peak	V	100	-	-64.11	-18.34	24.54	40.00	-15.46
129.60	Max-Peak	V	100	-	-59.70	-20.71	26.59	43.50	-16.91
152.17	Max-Peak	H	100	-	-63.21	-21.00	22.79	43.50	-20.71
395.24	Max-Peak	H	200	-	-70.80	-12.59	23.60	46.00	-22.40
845.73	Max-Peak	V	100	-	-73.11	-4.76	29.12	46.00	-16.88

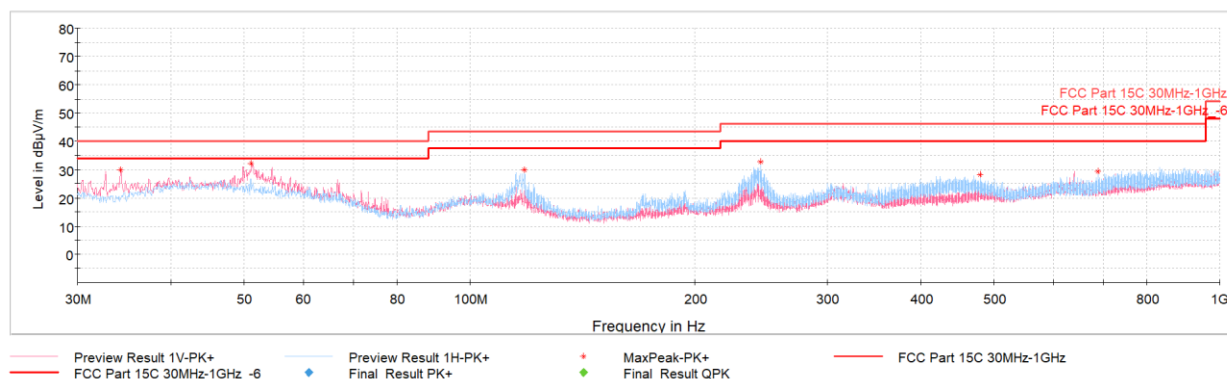
Table 7-39. Radiated Spurious Emissions Below 1GHz (NB UNII HDR4 – 5789MHz), with AC/DC adaptor

FCC ID: BCGA3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Description	Bluetooth 2.4GHz	NB UNII
Antenna	NB UNII_L	NB UNII_L
Operating Frequency (MHz)	2480	5157
Mode/Modulation	LE1M	NB UNII LE1M

Table 7-40. Worst Case Simultaneous Transmission Configuration



Plot 7-107. Radiated Spurious Emissions Simultaneous Transmission Below 1GHz (NB UNII & Bluetooth 2.4GHz) with AC/DC adaptor

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]
34.27	Max-Peak	V	100	346	-59.24	-17.93	29.83	40.00	-10.17
51.20	Max-Peak	V	100	334	-60.72	-14.23	32.05	40.00	-7.95
118.27	Max-Peak	H	300	79	-59.01	-18.10	29.89	43.52	-13.63
244.56	Max-Peak	H	100	80	-59.69	-14.58	32.73	46.02	-13.29
479.01	Max-Peak	H	200	182	-70.05	-8.90	28.05	46.02	-17.97
688.78	Max-Peak	H	100	118	-72.25	-5.37	29.38	46.02	-16.64

Table 7-41. Radiated Spurious Emissions Simultaneous Transmission Below 1GHz (NB UNII & Bluetooth 2.4GHz) with AC/DC adaptor

FCC ID: BCGA3416		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 7-42. 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.

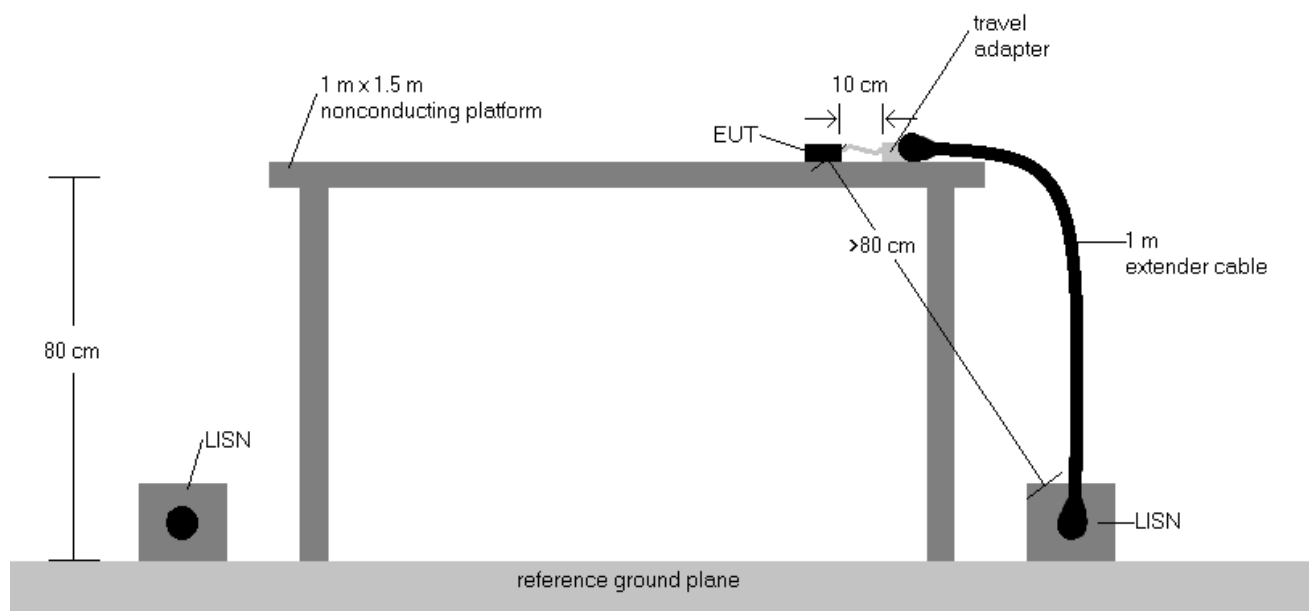


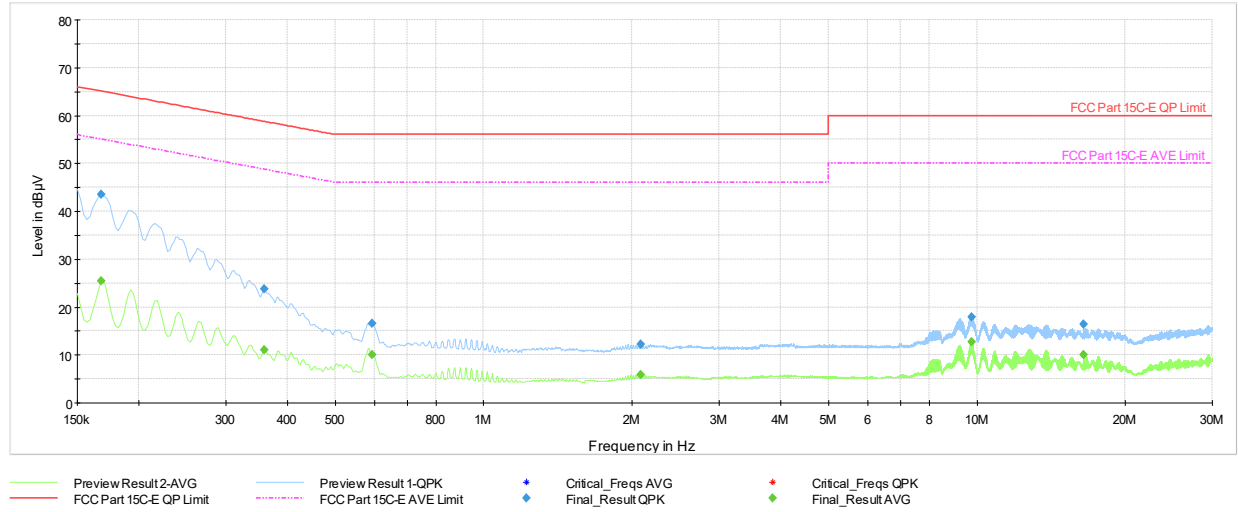
Figure 7-8. Test Instrument & Measurement Setup

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 Power Pack to Magnetic Charging Cable
 - b. EUT powered by host PC via USB-C Power Pack to Magnetic Charging Cable
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 7-108. AC Line Conducted Plot (NB UNII BDR– 5789MHz) (L1) with AC/DC Adaptor

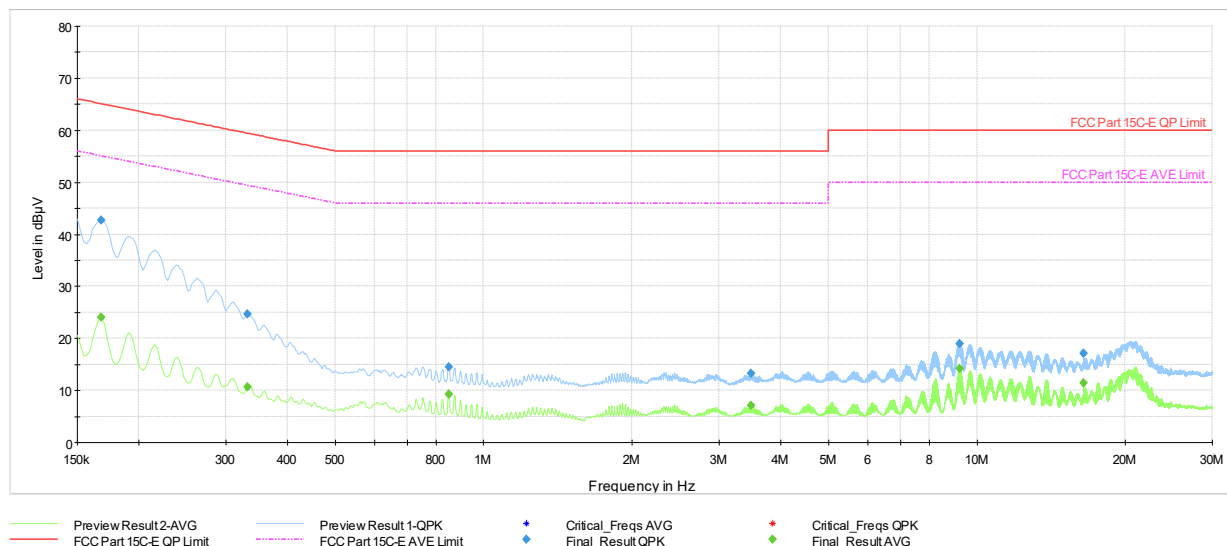
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	25.39	55.06	-29.67	L1	GND
0.168	FINAL	43.5	—	65.06	-21.59	L1	GND
0.359	FINAL	—	11.03	48.75	-37.72	L1	GND
0.359	FINAL	23.7	—	58.75	-35.04	L1	GND
0.593	FINAL	—	10.00	46.00	-36.00	L1	GND
0.593	FINAL	16.6	—	56.00	-39.36	L1	GND
2.083	FINAL	—	5.86	46.00	-40.14	L1	GND
2.085	FINAL	12.2	—	56.00	-43.77	L1	GND
9.749	FINAL	17.8	—	60.00	-42.17	L1	GND
9.749	FINAL	—	12.67	50.00	-37.33	L1	GND
16.474	FINAL	—	10.12	50.00	-39.88	L1	GND
16.474	FINAL	16.4	—	60.00	-43.63	L1	GND

Table 7-43. AC Line Conducted Data (NB UNII BDR – 5789MHz) (L1) with AC/DC Adaptor

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Plot 7-109. AC Line Conducted Plot (NB UNII BDR – 5789MHz) (N) with AC/DC Adaptor

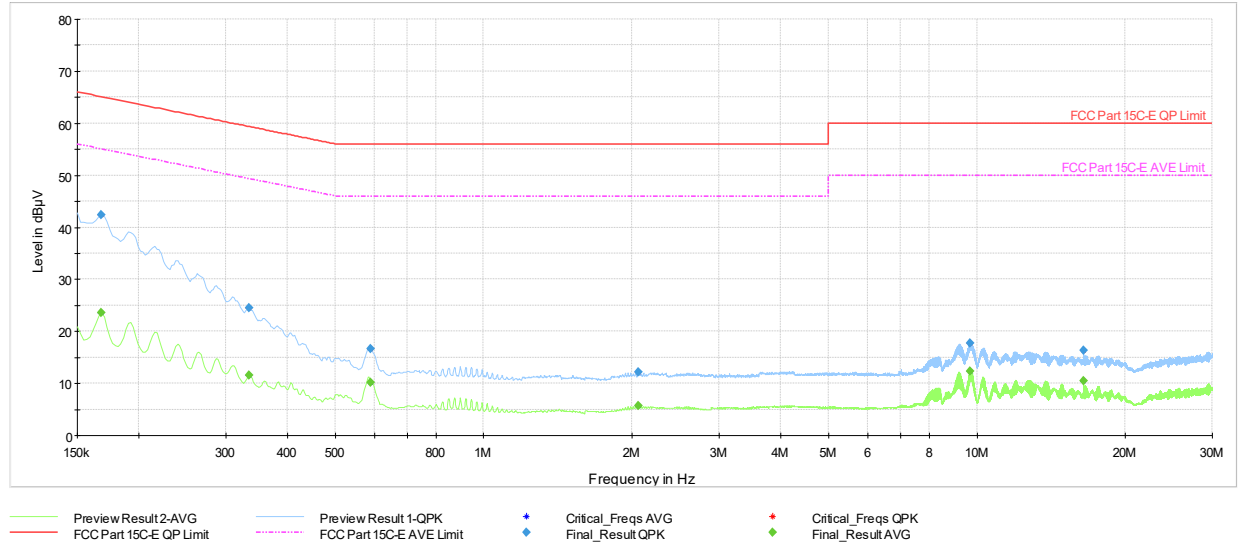
Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	—	24.05	55.06	-31.01	N	GND
0.168	FINAL	42.7	—	65.06	-22.35	N	GND
0.332	FINAL	—	10.67	49.40	-38.73	N	GND
0.332	FINAL	24.7	—	59.40	-34.72	N	GND
0.850	FINAL	—	9.24	46.00	-36.76	N	GND
0.850	FINAL	14.5	—	56.00	-41.48	N	GND
3.480	FINAL	13.3	—	56.00	-42.74	N	GND
3.480	FINAL	—	7.10	46.00	-38.90	N	GND
9.229	FINAL	19.0	—	60.00	-41.02	N	GND
9.229	FINAL	—	14.17	50.00	-35.83	N	GND
16.478	FINAL	—	11.34	50.00	-38.66	N	GND
16.478	FINAL	17.1	—	60.00	-42.88	N	GND

Table 7-44. AC Line Conducted (NB UNII BDR – 5789MHz) (N) with AC/DC Adaptor

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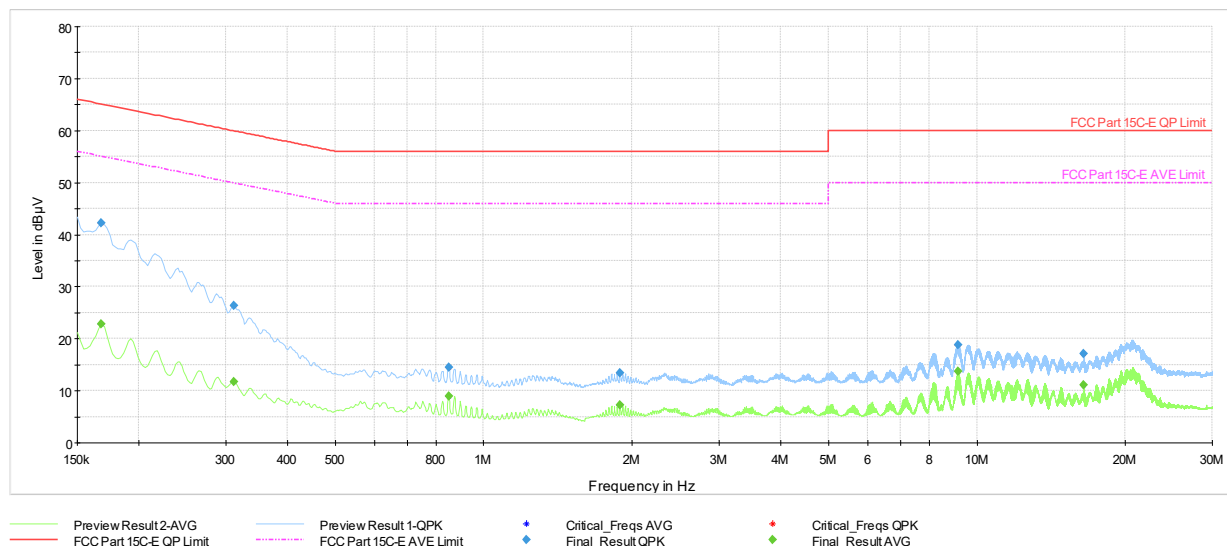


Plot 7-110. AC Line Conducted Plot (NB UNII LE1M – 5789MHz) (L1) with AC/DC Adaptor

Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.168	FINAL	—	23.58	55.06	-31.48	L1	GND
0.168	FINAL	42.3	—	65.06	-22.73	L1	GND
0.335	FINAL	—	11.49	49.34	-37.85	L1	GND
0.335	FINAL	24.5	—	59.34	-34.89	L1	GND
0.591	FINAL	—	10.21	46.00	-35.79	L1	GND
0.591	FINAL	16.7	—	56.00	-39.34	L1	GND
2.058	FINAL	12.2	—	56.00	-43.84	L1	GND
2.058	FINAL	—	5.76	46.00	-40.24	L1	GND
9.701	FINAL	17.7	—	60.00	-42.26	L1	GND
9.701	FINAL	—	12.40	50.00	-37.60	L1	GND
16.478	FINAL	—	10.41	50.00	-39.59	L1	GND
16.478	FINAL	16.4	—	60.00	-43.59	L1	GND

Table 7-45. AC Line Conducted Data (NB UNII LE1M – 5789MHz) (L1) with AC/DC Adaptor

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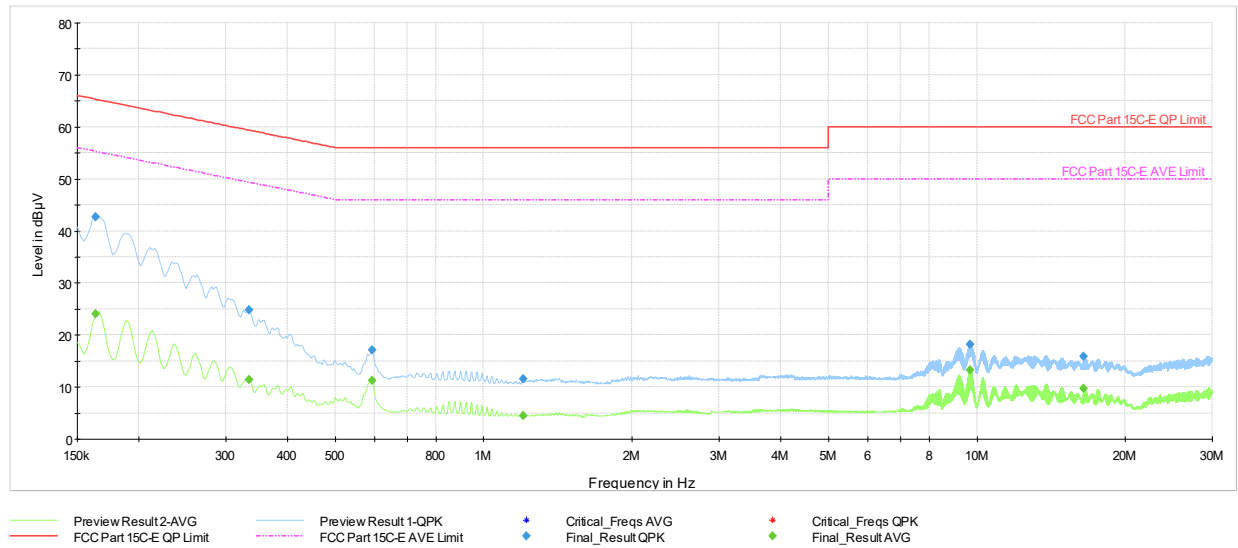
Plot 7-111. AC Line Conducted Plot (NB UNII LE1M – 5789MHz) (N) with AC/DC Adaptor

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.168	FINAL	—	22.81	55.06	-32.25	N	GND
0.168	FINAL	42.3	—	65.06	-22.79	N	GND
0.312	FINAL	—	11.75	49.92	-38.16	N	GND
0.312	FINAL	26.4	—	59.92	-33.51	N	GND
0.850	FINAL	—	9.01	46.00	-36.99	N	GND
0.850	FINAL	14.4	—	56.00	-41.56	N	GND
1.889	FINAL	13.4	—	56.00	-42.58	N	GND
1.889	FINAL	—	7.20	46.00	-38.80	N	GND
9.159	FINAL	18.8	—	60.00	-41.18	N	GND
9.159	FINAL	—	13.75	50.00	-36.25	N	GND
16.483	FINAL	—	11.10	50.00	-38.90	N	GND
16.483	FINAL	17.1	—	60.00	-42.93	N	GND

Table 7-46. AC Line Conducted Data (NB UNII LE1M – 5789MHz) (N) with AC/DC Adaptor

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Plot 7-112. AC Line Conducted Plot (NB UNII HDR4 – 5789MHz) (L1) with AC/DC Adaptor

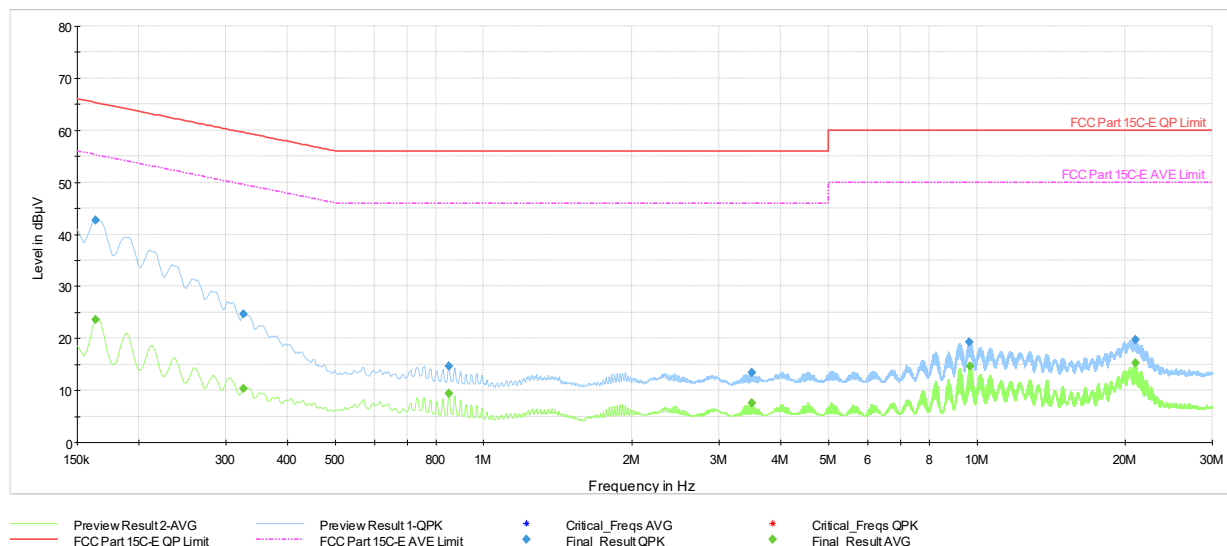
Frequency [MHz]	Process State	QuasiPeak [dBµV]	Average [dBµV]	Limit [dBµV]	Margin [dB]	Line	PE
0.164	FINAL	—	24.07	55.28	-31.22	L1	GND
0.164	FINAL	42.6	—	65.28	-22.66	L1	GND
0.335	FINAL	—	11.44	49.34	-37.90	L1	GND
0.335	FINAL	24.8	—	59.34	-34.57	L1	GND
0.593	FINAL	—	11.32	46.00	-34.68	L1	GND
0.593	FINAL	17.1	—	56.00	-38.90	L1	GND
1.205	FINAL	11.5	—	56.00	-44.49	L1	GND
1.205	FINAL	—	4.43	46.00	-41.57	L1	GND
9.704	FINAL	18.2	—	60.00	-41.84	L1	GND
9.704	FINAL	—	13.33	50.00	-36.67	L1	GND
16.465	FINAL	—	9.75	50.00	-40.25	L1	GND
16.465	FINAL	15.9	—	60.00	-44.06	L1	GND

Table 7-47. AC Line Conducted (NB UNII HDR4 – 5789MHz) (N) with AC/DC Adaptor

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Plot 7-113. AC Line Conducted Plot (NB UNII HDR4 – 5789MHz) (N) with AC/DC Adaptor

Frequency [MHz]	Process State	QuasiPeak [dBμV]	Average [dBμV]	Limit [dBμV]	Margin [dB]	Line	PE
0.164	FINAL	—	23.60	55.28	-31.68	N	GND
0.164	FINAL	42.7	—	65.28	-22.60	N	GND
0.326	FINAL	—	10.38	49.57	-39.18	N	GND
0.326	FINAL	24.7	—	59.57	-34.83	N	GND
0.850	FINAL	—	9.43	46.00	-36.57	N	GND
0.850	FINAL	14.6	—	56.00	-41.42	N	GND
3.503	FINAL	13.5	—	56.00	-42.55	N	GND
3.503	FINAL	—	7.61	46.00	-38.39	N	GND
9.654	FINAL	19.3	—	60.00	-40.70	N	GND
9.679	FINAL	—	14.65	50.00	-35.35	N	GND
20.931	FINAL	19.8	—	60.00	-40.24	N	GND
20.954	FINAL	—	15.20	50.00	-34.80	N	GND

Table 7-48. AC Line Conducted (NB UNII HDR4 – 5789MHz) (N) with AC/DC Adaptor

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Head Mounted Device FCC ID: BCGA3416** is in compliance with Part 15 Subpart E (15.407) of the FCC Rules.

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