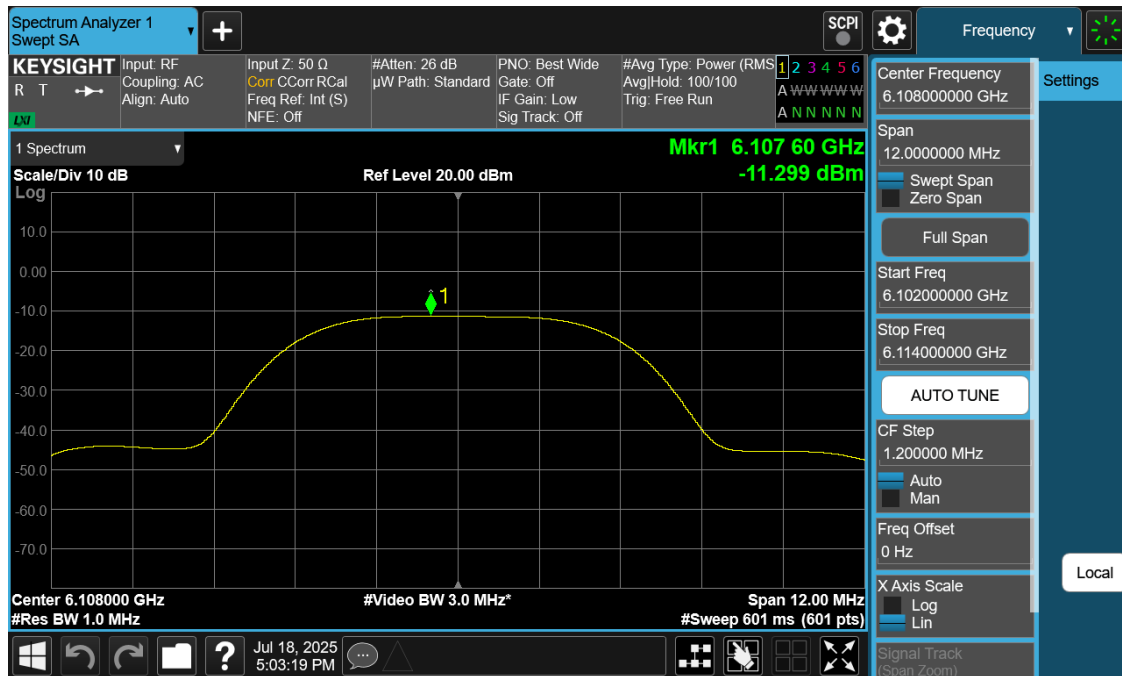
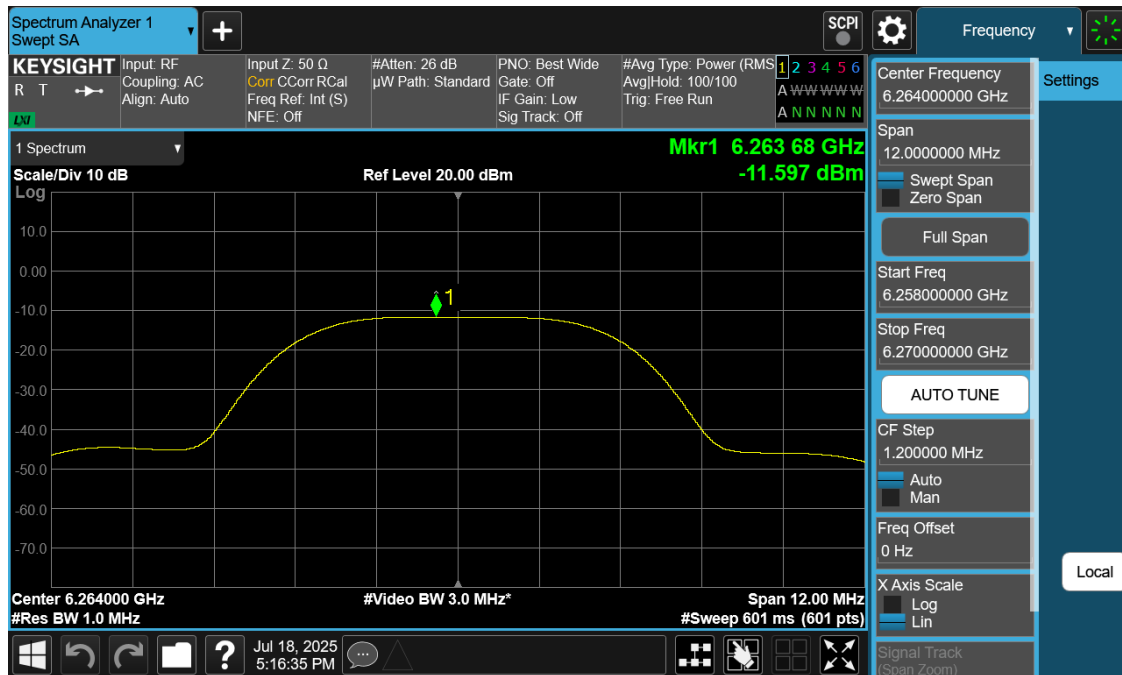


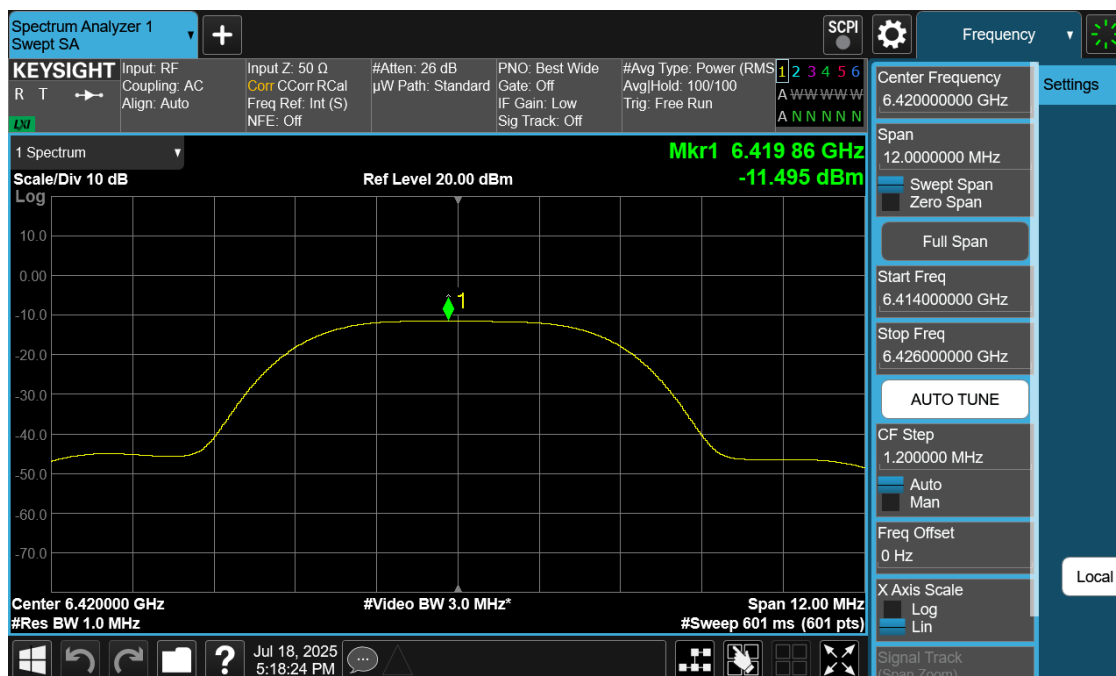


Plot 7-55. PSD (NB UNII_R HDR8 – 6108MHz)

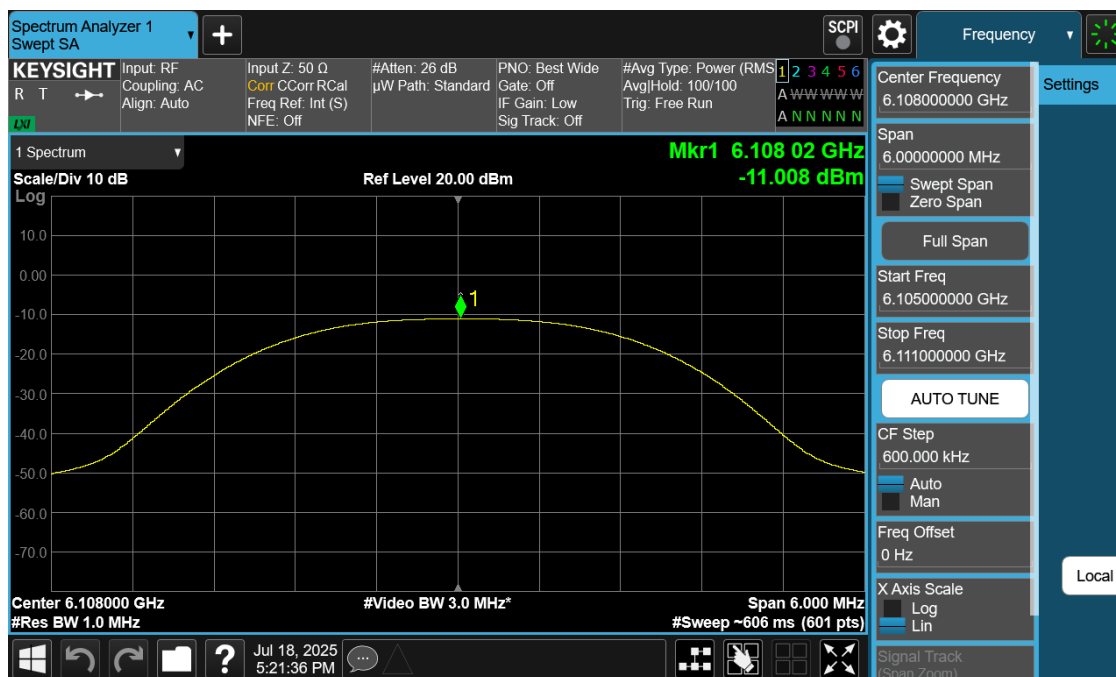


Plot 7-56. PSD (NB UNII_R HDR8 – 6264MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 50 of 136



Plot 7-57. PSD (NB UNII_R HDR8 – 6420MHz)



Plot 7-58. PSD (NB UNII_R HDRp4 – 6108MHz)

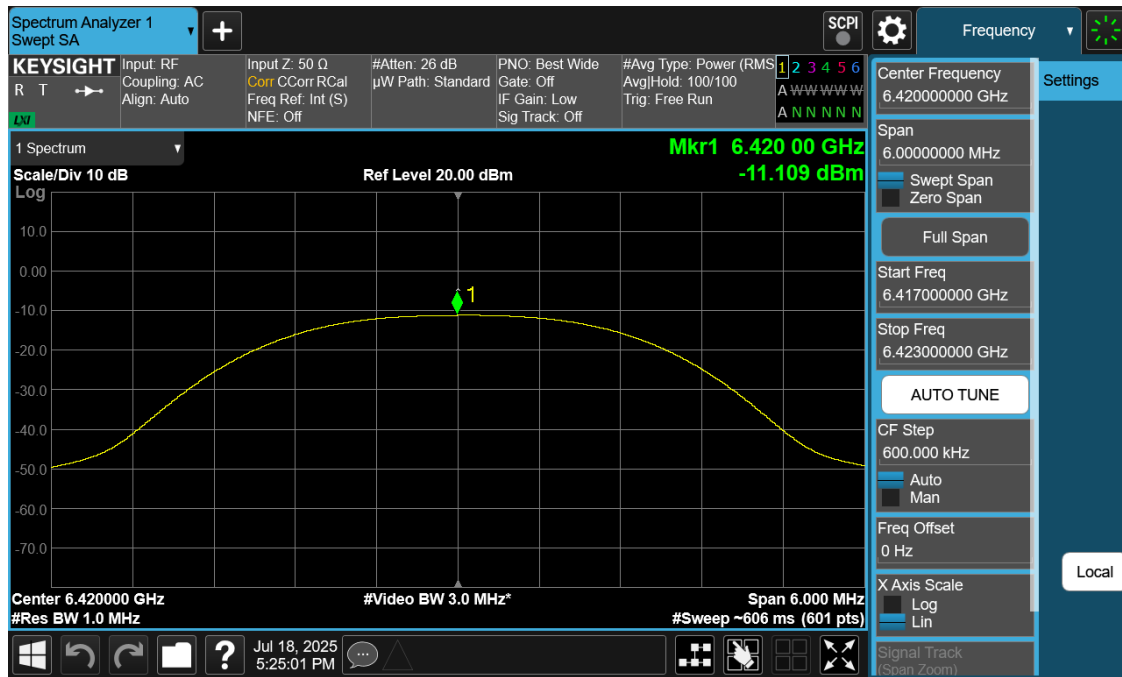
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 51 of 136

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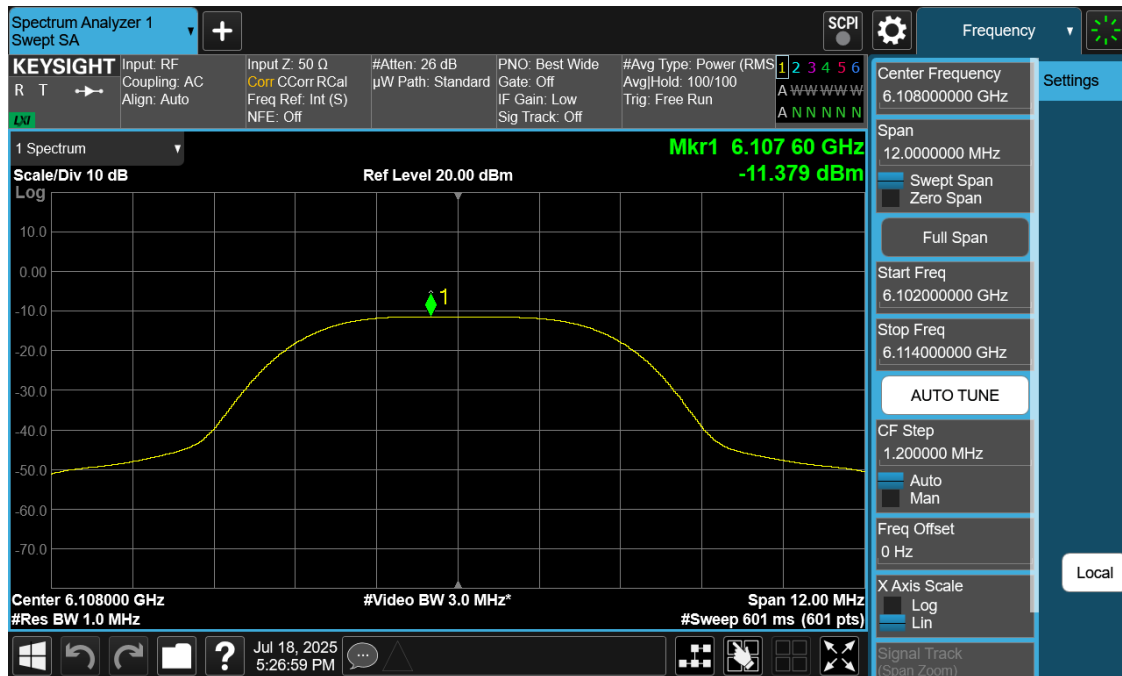


Plot 7-59. PSD (NB UNII_R HDRp4 – 6264MHz)

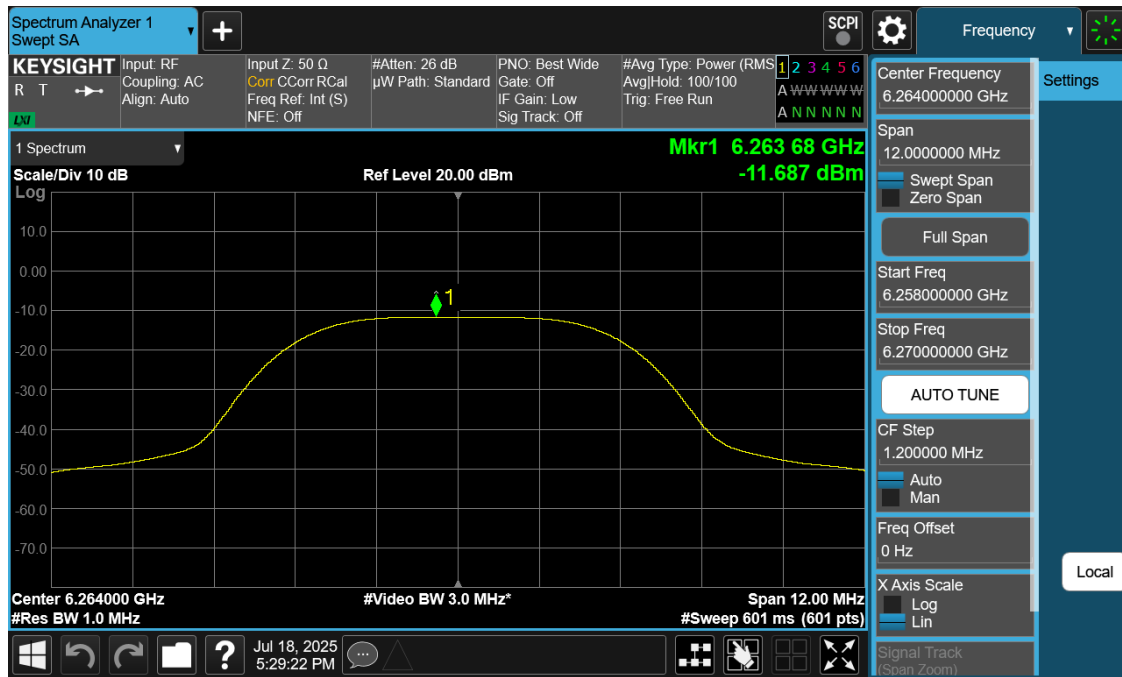


Plot 7-60. PSD (NB UNII_R HDRp4 – 6420MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 52 of 136

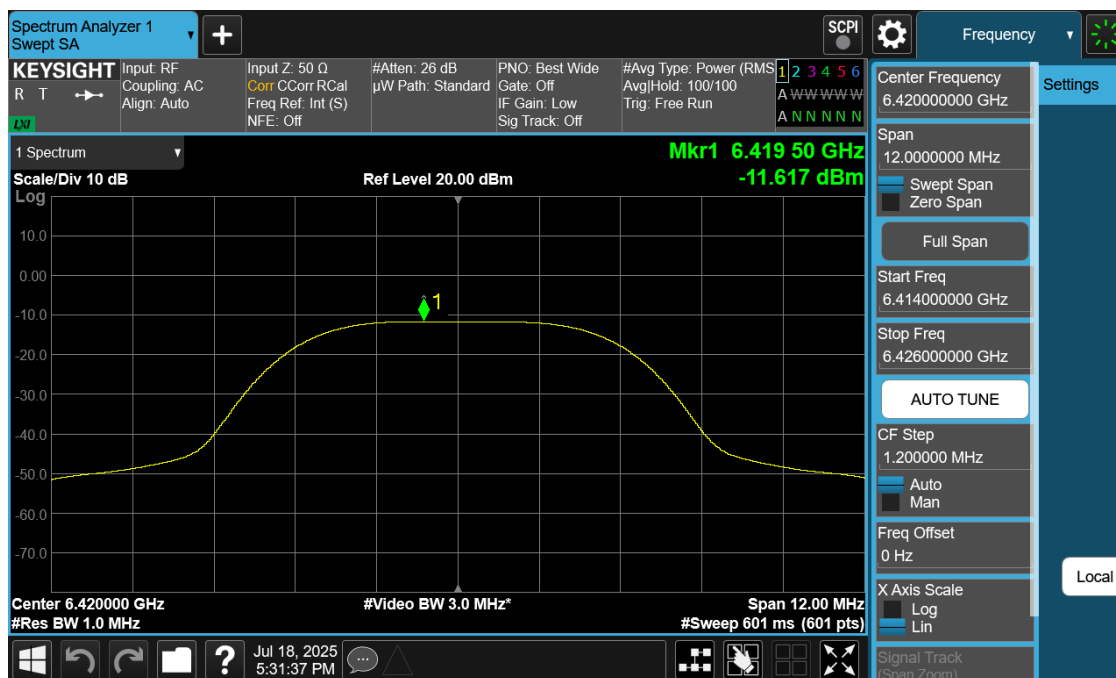


Plot 7-61. PSD (NB UNII_R HDRp8 – 6108MHz)



Plot 7-62. PSD (NB UNII_R HDRp8 – 6264MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 53 of 136



Plot 7-63. PSD (NB UNII_R HDRp8 – 6420MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 54 of 136

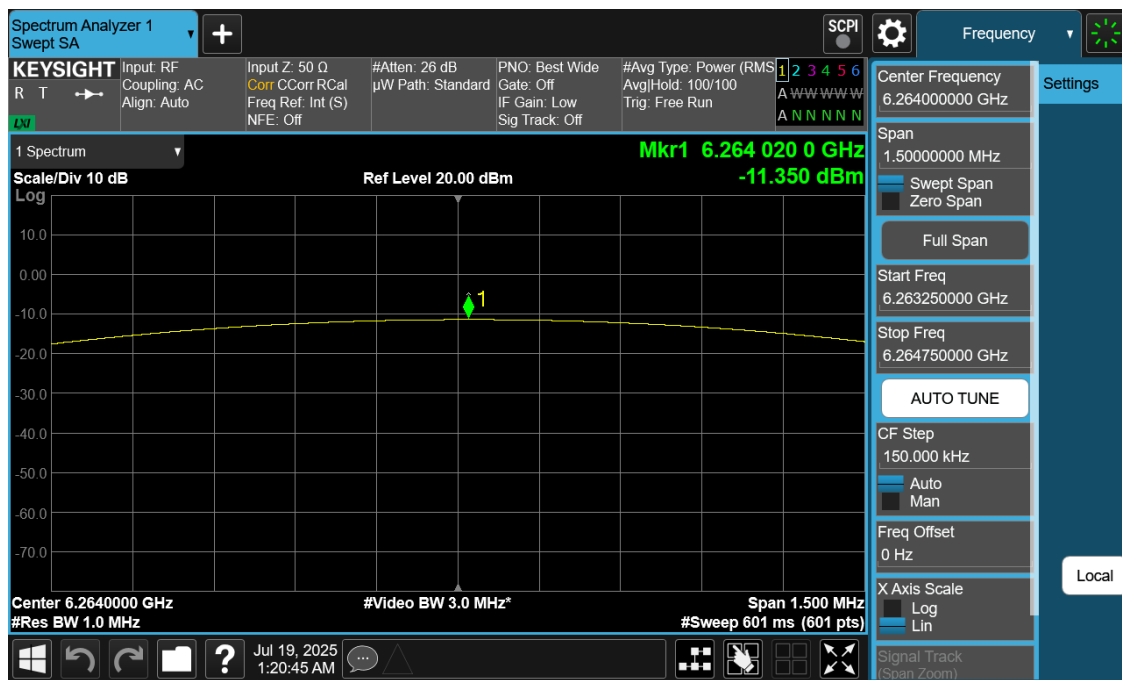
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Frequency [MHz]	Data Rate [Mbps]	Mode	Measured Power Density [dBm/MHz]	Antenna Gain [dBi]	e.i.r.p. Density [dBm/MHz]	Max Permissible Power Density [dBm/MHz]	Margin [dB]	Verdict
6108	1.0	NB UNII BDR	-11.11	-1.90	-13.01	-5.00	-8.01	PASS
6264	1.0	NB UNII BDR	-11.35	-2.20	-13.55	-5.00	-8.55	PASS
6420	1.0	NB UNII BDR	-11.20	-2.40	-13.60	-5.00	-8.60	PASS
6108	1.0	NB UNII LE1M	-9.62	-1.90	-11.52	-5.00	-6.52	PASS
6264	1.0	NB UNII LE1M	-10.57	-2.20	-12.77	-5.00	-7.77	PASS
6420	1.0	NB UNII LE1M	-10.34	-2.40	-12.74	-5.00	-7.74	PASS
6108	2.0	NB UNII LE2M	-11.44	-1.90	-13.34	-5.00	-8.34	PASS
6264	2.0	NB UNII LE2M	-12.57	-2.20	-14.77	-5.00	-9.77	PASS
6420	2.0	NB UNII LE2M	-12.51	-2.40	-14.91	-5.00	-9.91	PASS
6108	4.0	NB UNII HDR4	-11.10	-1.90	-13.00	-5.00	-8.00	PASS
6264	4.0	NB UNII HDR4	-11.21	-2.20	-13.41	-5.00	-8.41	PASS
6420	4.0	NB UNII HDR4	-11.24	-2.40	-13.64	-5.00	-8.64	PASS
6108	8.0	NB UNII HDR8	-11.46	-1.90	-13.36	-5.00	-8.36	PASS
6264	8.0	NB UNII HDR8	-11.69	-2.20	-13.89	-5.00	-8.89	PASS
6420	8.0	NB UNII HDR8	-16.81	-2.40	-19.21	-5.00	-14.21	PASS
6108	4.0	NB UNII HDRp4	-7.59	-1.90	-9.49	-5.00	-4.49	PASS
6264	4.0	NB UNII HDRp4	-11.25	-2.20	-13.45	-5.00	-8.45	PASS
6420	4.0	NB UNII HDRp4	-11.34	-2.40	-13.74	-5.00	-8.74	PASS
6108	8.0	NB UNII HDRp8	-12.59	-1.90	-14.49	-5.00	-9.49	PASS
6264	8.0	NB UNII HDRp8	-11.77	-2.20	-13.97	-5.00	-8.97	PASS
6420	8.0	NB UNII HDRp8	-12.62	-2.40	-15.02	-5.00	-10.02	PASS

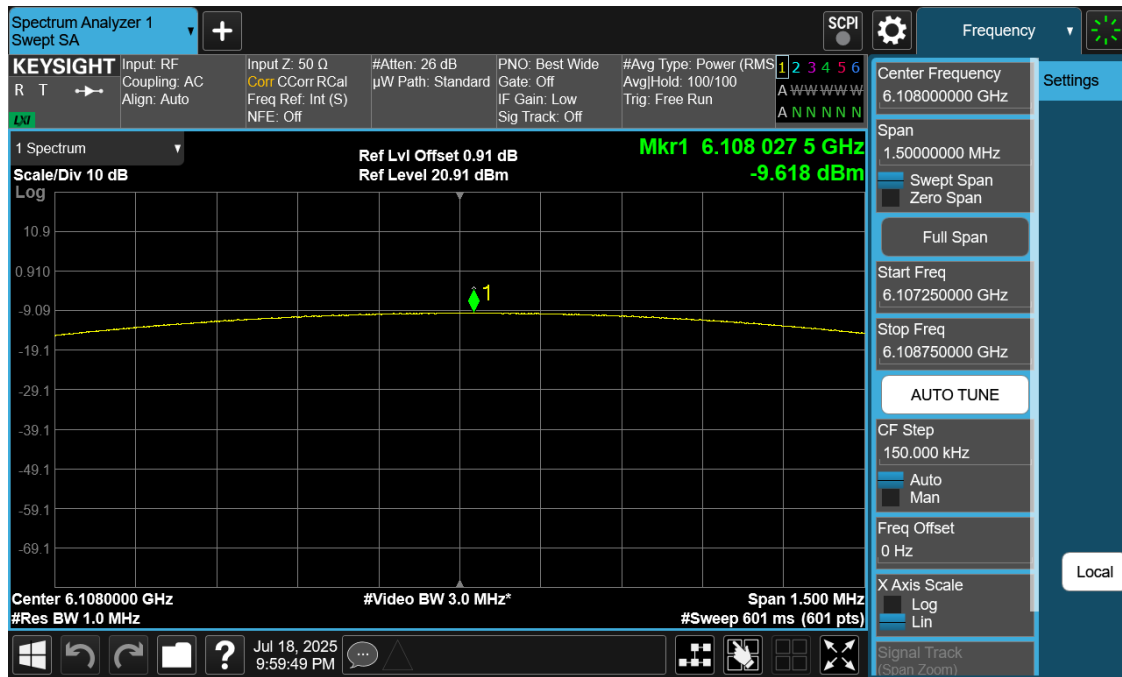
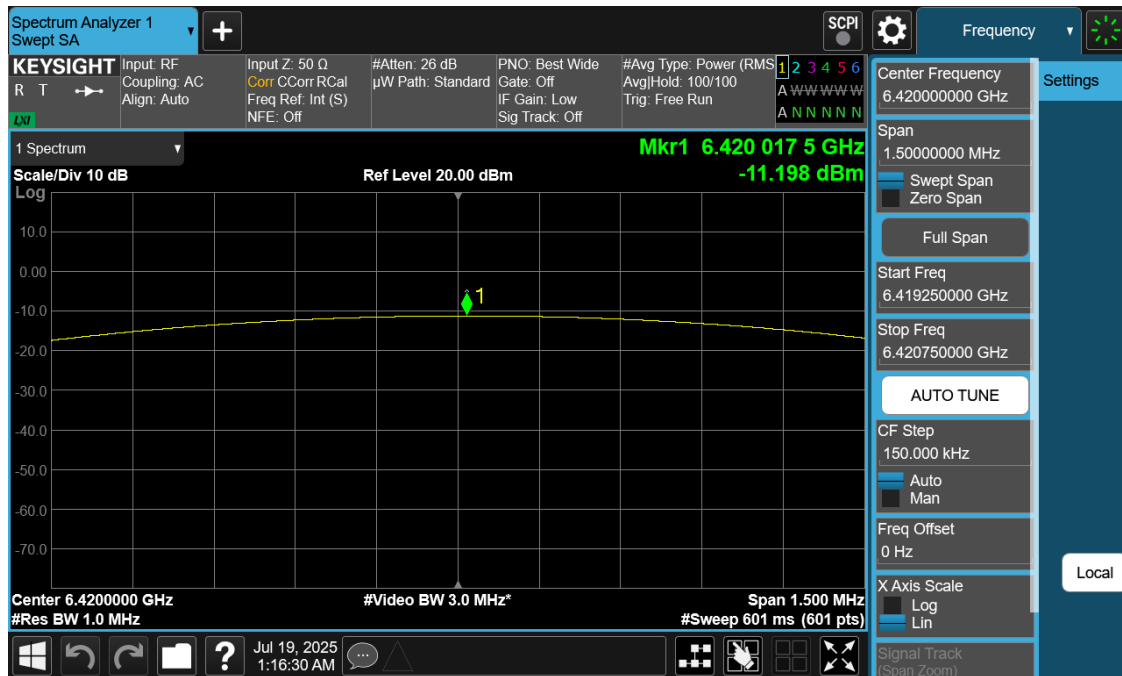
Table 7-7. NB UNII_L Power Spectral Density Measurements

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 55 of 136

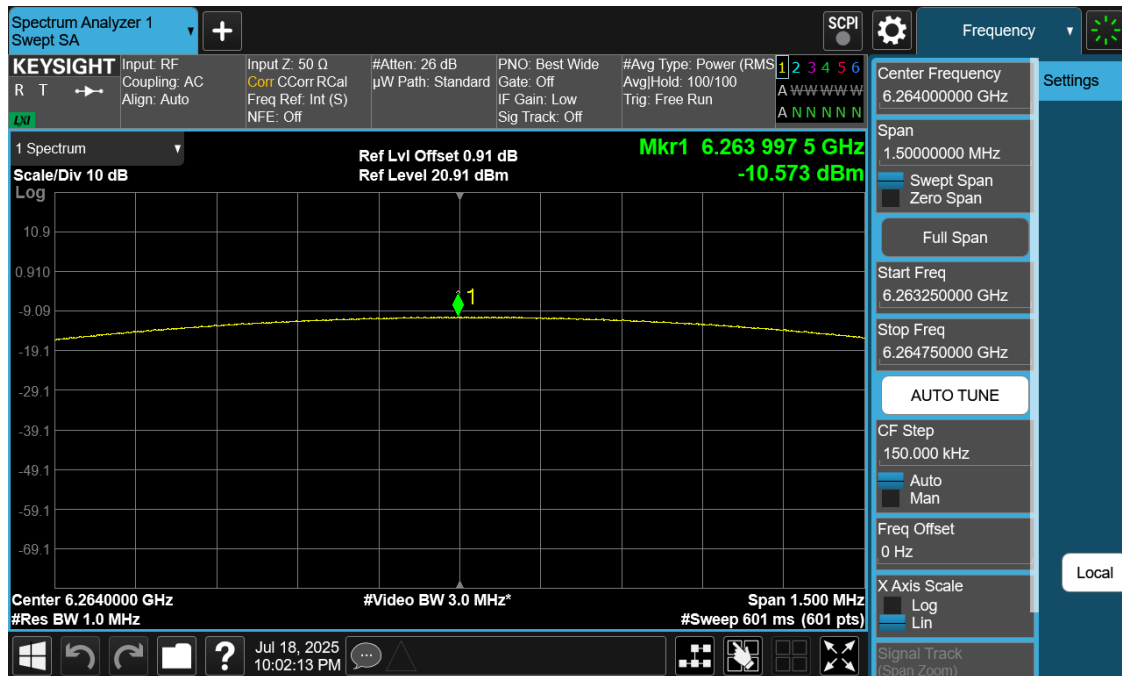
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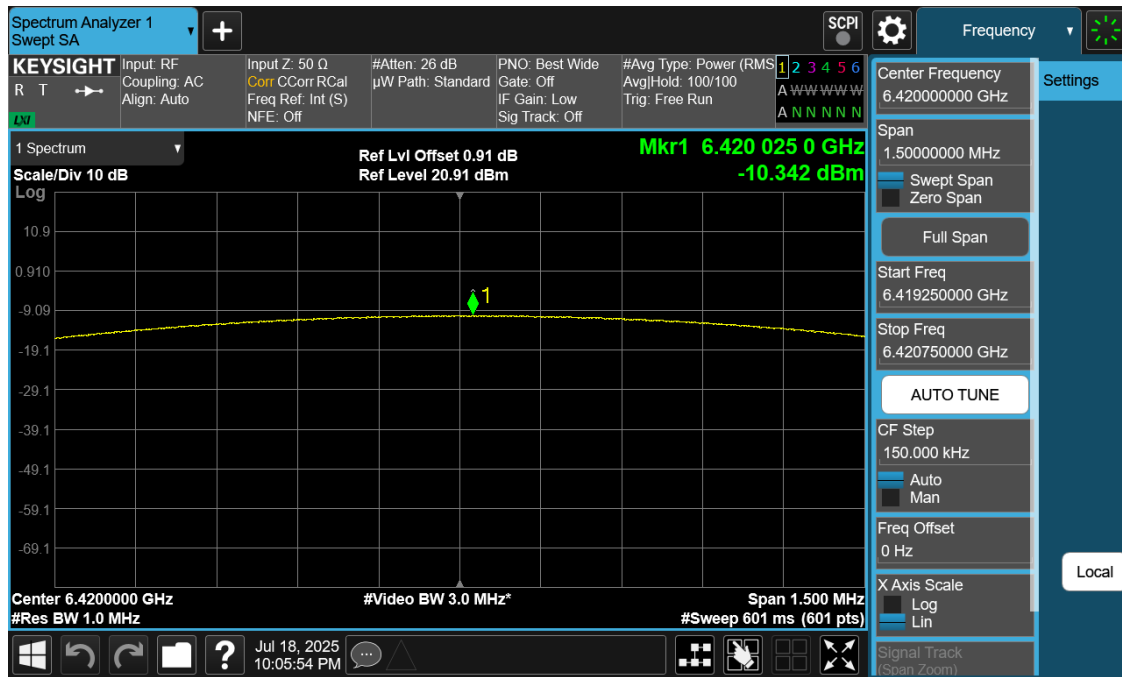
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 56 of 136



FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 57 of 136

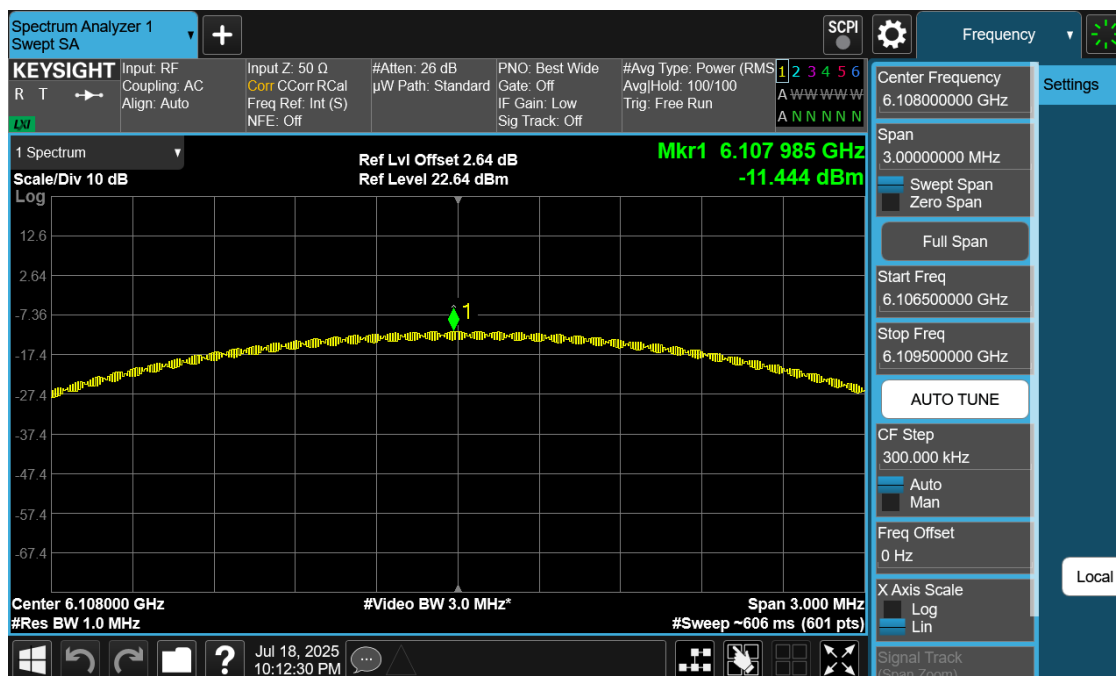


Plot 7-68. PSD (NB UNIL_L LE1M – 6264MHz)

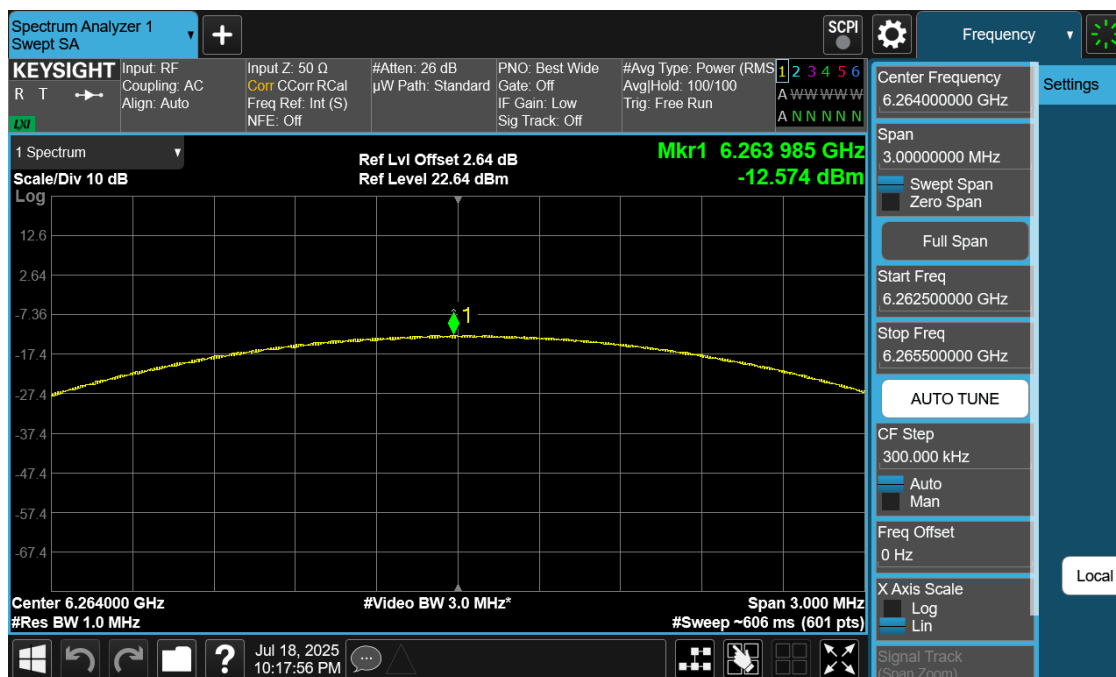


Plot 7-69. PSD (NB UNIL_L LE1M – 6420MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 58 of 136

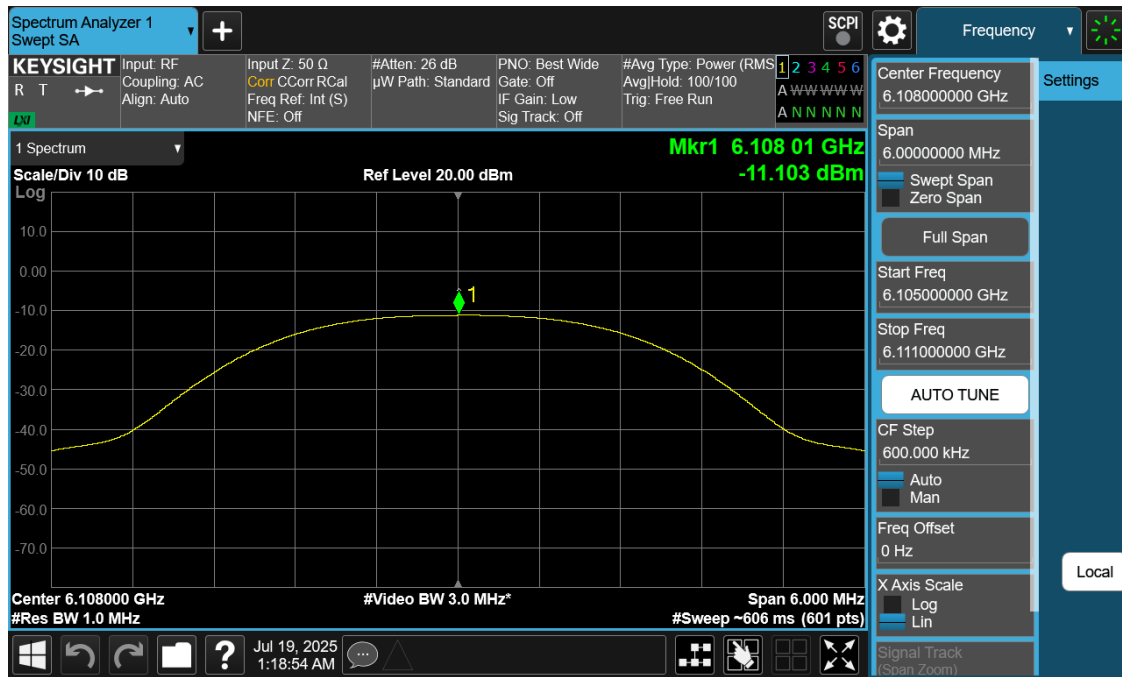


Plot 7-70. PSD (NB UNII_L LE2M – 6108MHz)



Plot 7-71. PSD (NB UNII_L LE2M – 6264MHz)

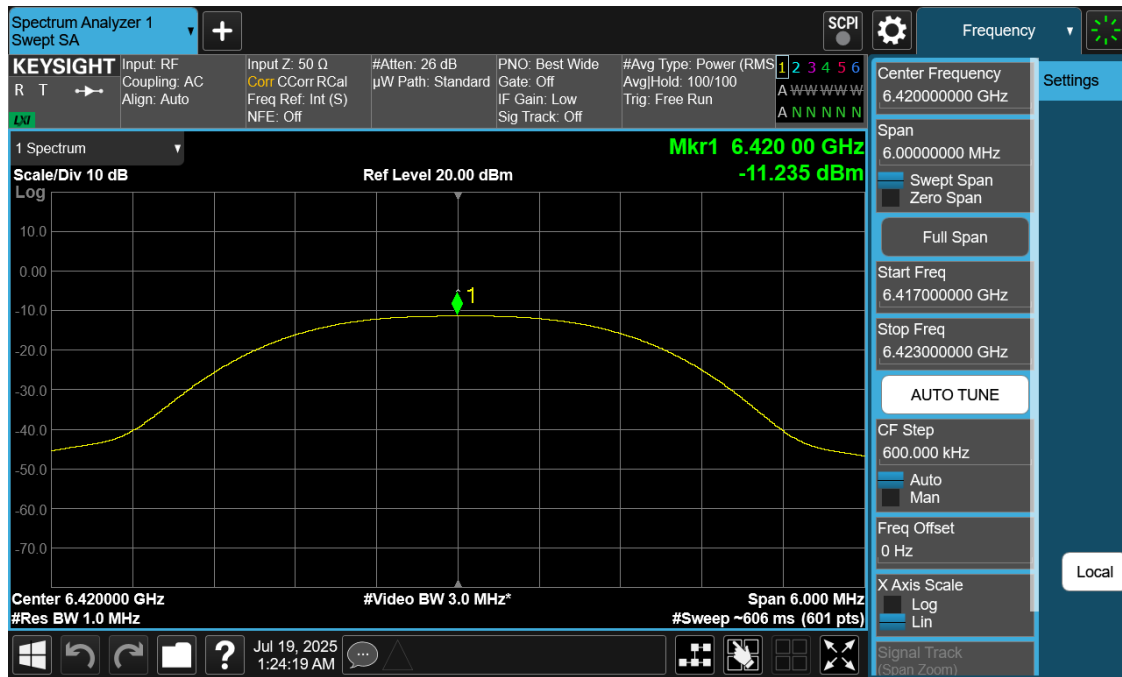
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 59 of 136



FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 60 of 136

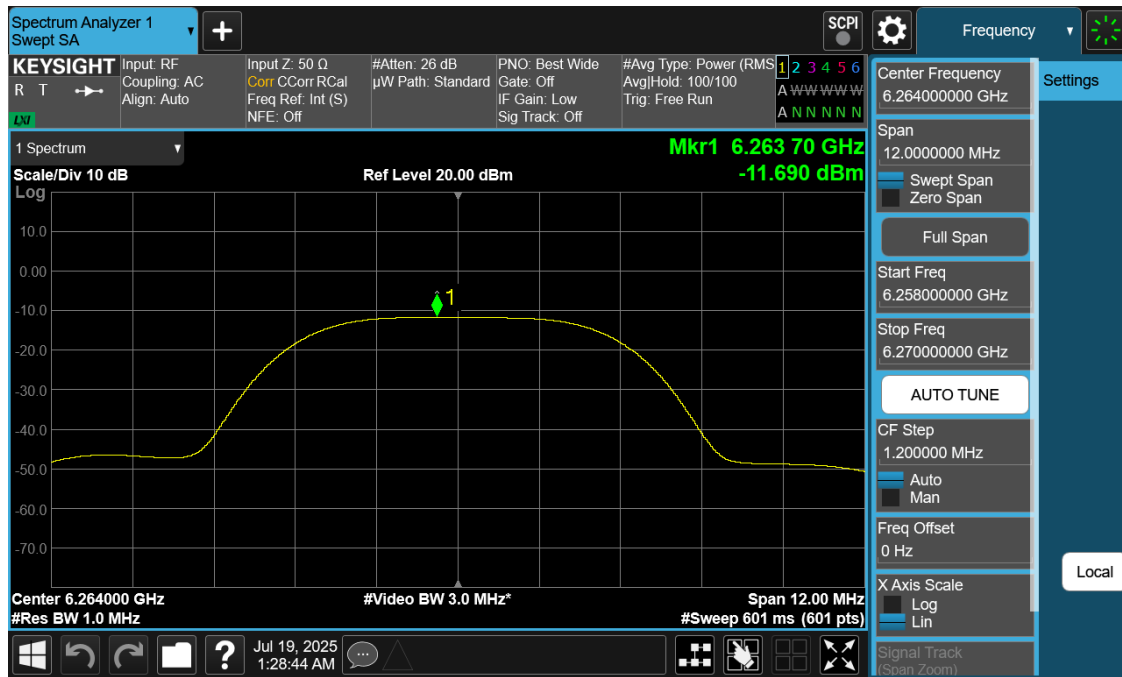
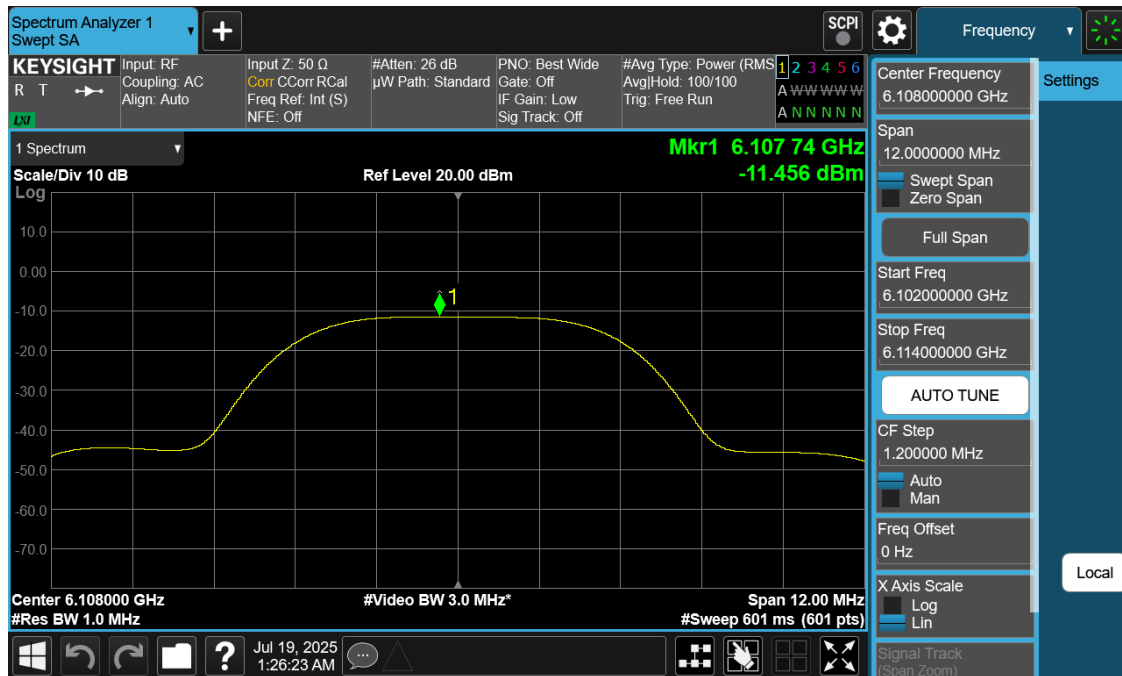


Plot 7-74. PSD (NB UNIL_L HDR4 – 6264MHz)

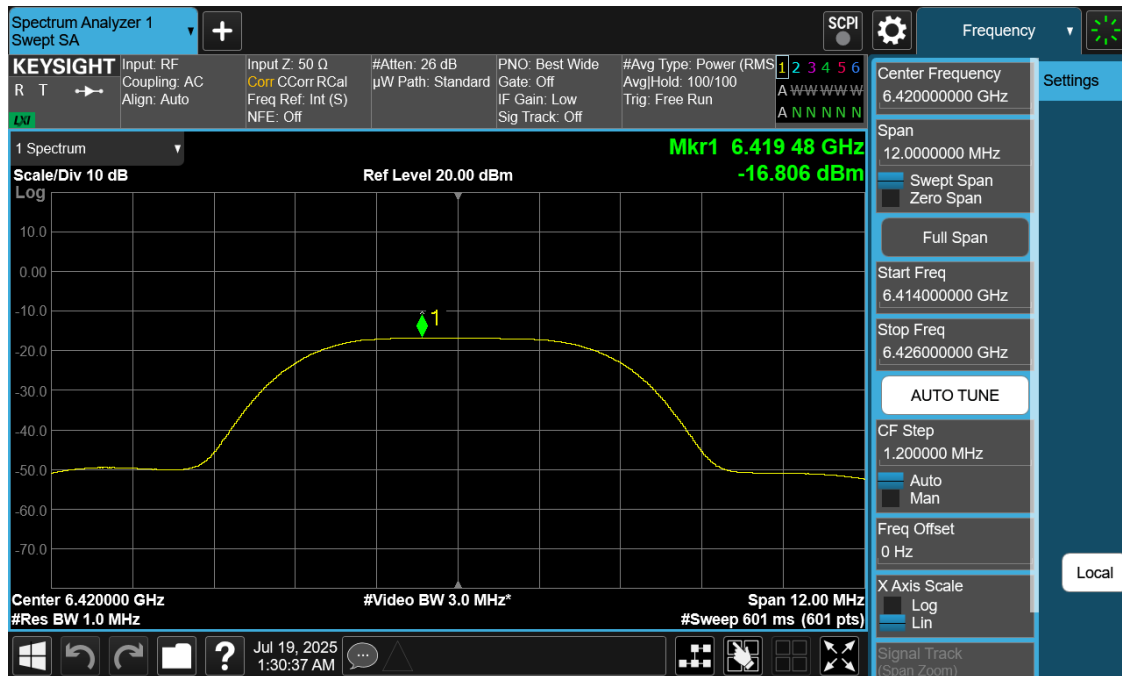


Plot 7-75. PSD (NB UNIL_L HDR4 – 6420MHz)

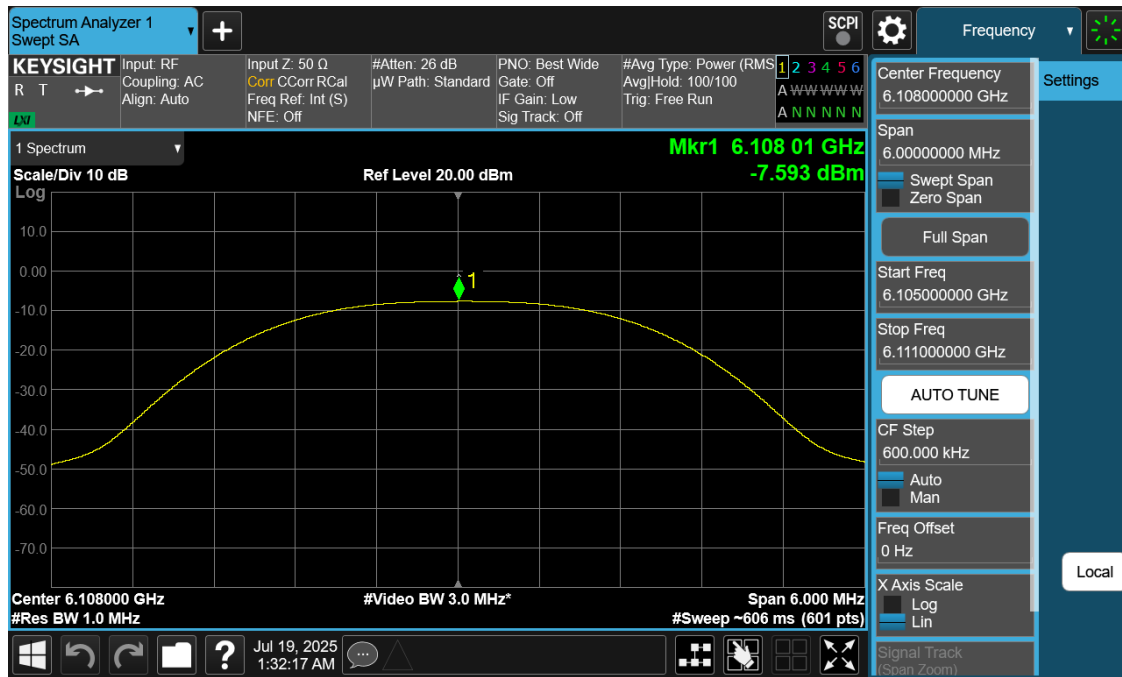
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 61 of 136



FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 62 of 136

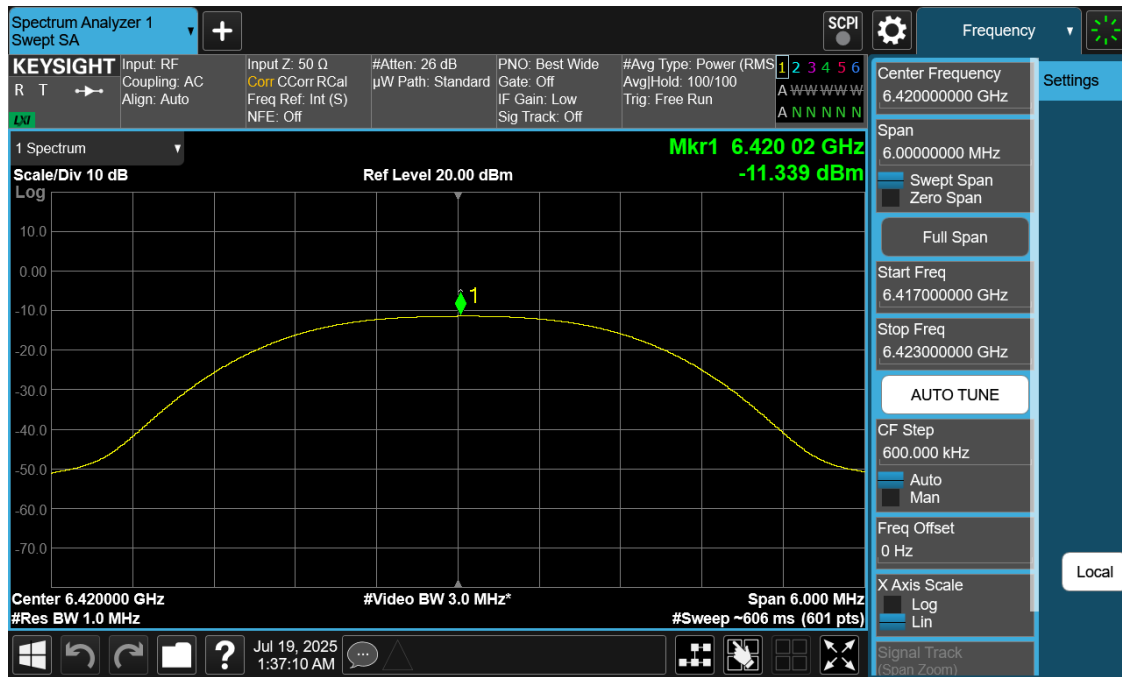


Plot 7-78. PSD (NB UNII_L HDR8 – 6420MHz)

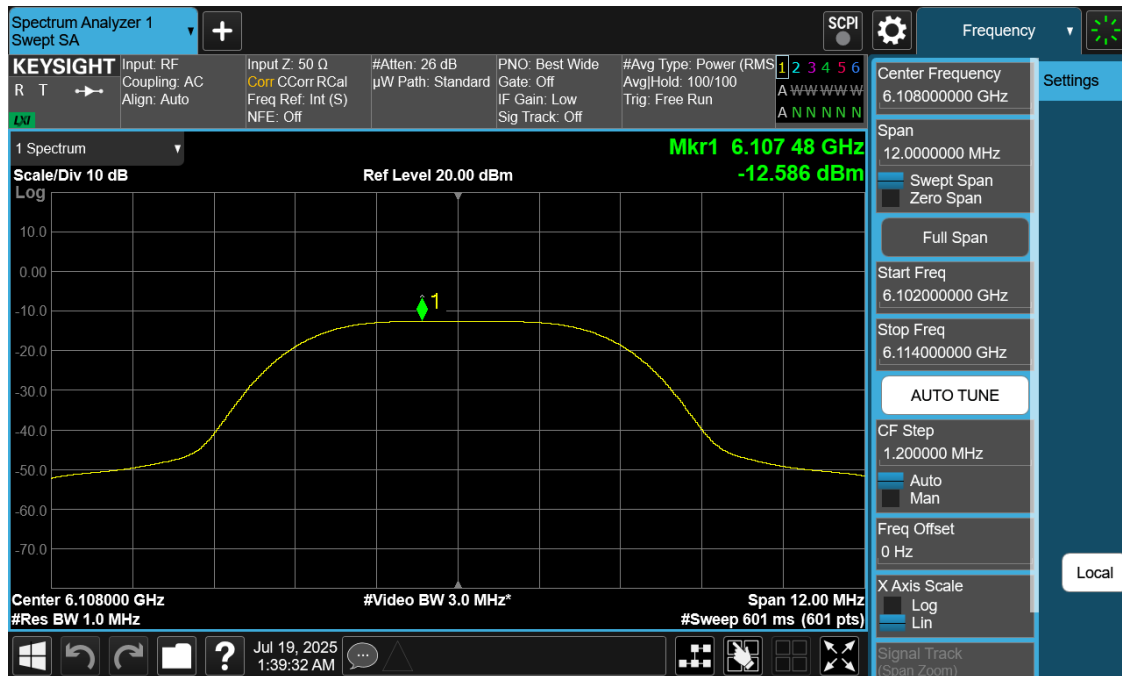


Plot 7-79. PSD (NB UNII_L HDRp4 – 6108MHz)

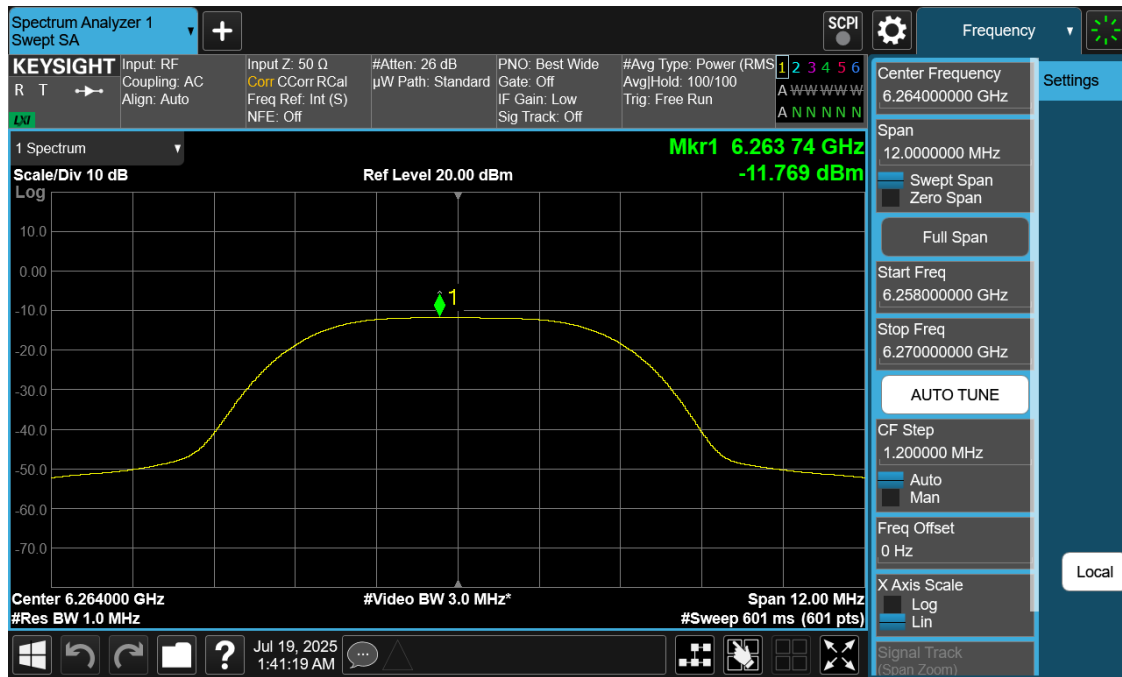
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 63 of 136



FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 64 of 136

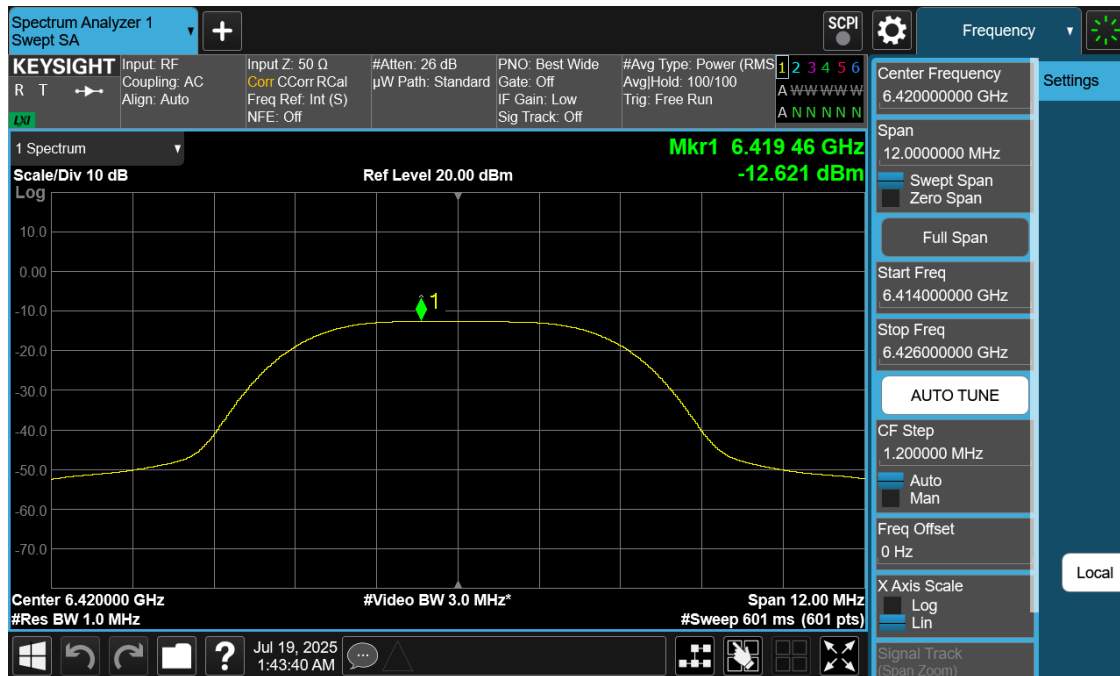


Plot 7-82. PSD (NB UNII_L HDRp8 – 6108MHz)



Plot 7-83. PSD (NB UNII_L HDRp8 – 6264MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 65 of 136



Plot 7-84. PSD (NB UNII_L HDRp8 - 6420MHz)

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

At 6108MHz for NB UNII BDR, the average power density was calculated to be -11.11 dBm with antenna gain of -1.90 dBi.

$$\text{e.i.r.p Power Spectral Density (dBm)} = \text{Power Spectral Density (dBm)} + \text{Ant gain (dBi)}$$

$$(-11.11) \text{ dBm} + (-1.90) \text{ dBi} = (-13.01) \text{ dBm}$$

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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7.5 In-Band Emissions

§15.407(b.7); RSS-248 [4.6.2]

Test Overview and Limit

The spectrum analyzer was connected to the antenna terminal while the EUT was operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2020 and KDB 789033 D02 v02r01, and at the appropriate frequencies.

For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

Test Procedure Used

ANSI C63.10-2020 – Section 12.4.2.2

KDB 987594 D02 v03 – Section J

Test Settings

1. Connect output of the antenna port to a spectrum analyzer or EMI receiver, with appropriate attenuation, as to not damage the instrumentation.
2. Set the reference level of the measuring equipment in accordance with procedure 4.1.6.2 of ANSI C63.10-2020.
3. Measure the 26 dB EBW using the test procedure 12.5.2 of ANSI C63.10-2020. (This will be used to determine the channel edge.)
4. Measure the power spectral density (which will be used for emissions mask reference) using the following procedure:
 - a) Set the span to encompass the entire 26 dB EBW of the signal.
 - b) Set RBW = same RBW used for 26 dB EBW measurement.
 - c) Set VBW $\geq 3 \times$ RBW
 - d) Number of points in sweep $\geq [2 \times \text{span} / \text{RBW}]$.
 - e) Sweep time = auto.
 - f) Detector = RMS (i.e., power averaging)
 - g) Trace average at least 100 traces in power averaging (rms) mode.
 - h) Use the peak search function on the instrument to find the peak of the spectrum.
5. For the purposes of developing the emission mask, the channel bandwidth is defined as the 26 dB EBW.
6. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
 - i) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
 - j) Suppressed by 28 dB at one channel bandwidth from the channel center.
 - k) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
7. Adjust the span to encompass the entire mask as necessary.
8. Clear trace.
9. Trace average at least 100 traces in power averaging (rms) mode.
10. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask.

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Test Setup

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



Figure 7-4. Test Instrument & Measurement Setup

Test Notes

None.

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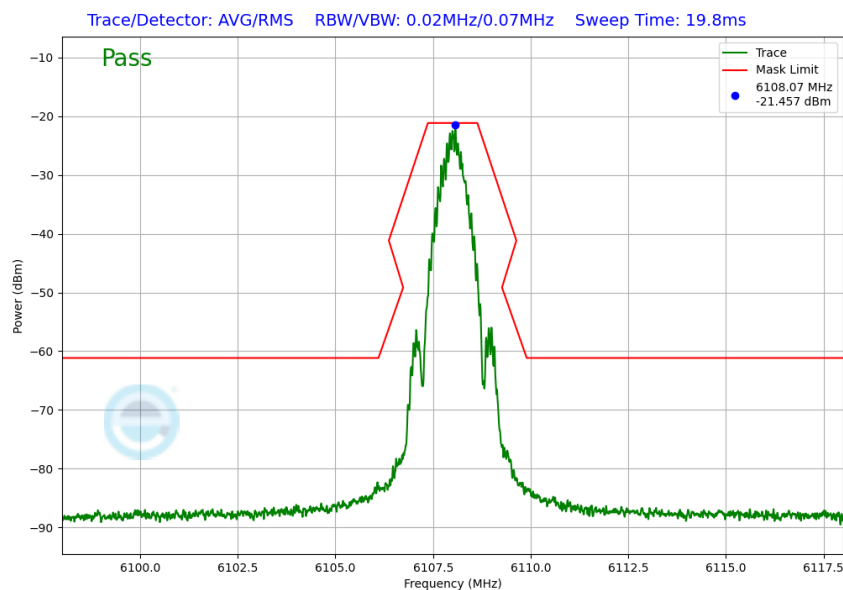
7.5.1 In-Band Emission Measurements

Frequency [MHz]	Data Rate [Mbps]	Mode	NB_UNII_R In-Band Emission
6108	1.0	NB UNII BDR	Pass
6264	1.0	NB UNII BDR	Pass
6420	1.0	NB UNII BDR	Pass
6108	1.0	NB UNII LE1M	Pass
6264	1.0	NB UNII LE1M	Pass
6420	1.0	NB UNII LE1M	Pass
6108	2.0	NB UNII LE2M	Pass
6264	2.0	NB UNII LE2M	Pass
6420	2.0	NB UNII LE2M	Pass
6108	4.0	NB UNII HDR4	Pass
6264	4.0	NB UNII HDR4	Pass
6420	4.0	NB UNII HDR4	Pass
6108	4.0	NB UNII HDRp4	Pass
6264	4.0	NB UNII HDRp4	Pass
6420	4.0	NB UNII HDRp4	Pass
6108	8.0	NB UNII HDR8	Pass
6264	8.0	NB UNII HDR8	Pass
6420	8.0	NB UNII HDR8	Pass
6108	8.0	NB UNII HDRp8	Pass
6264	8.0	NB UNII HDRp8	Pass
6420	8.0	NB UNII HDRp8	Pass

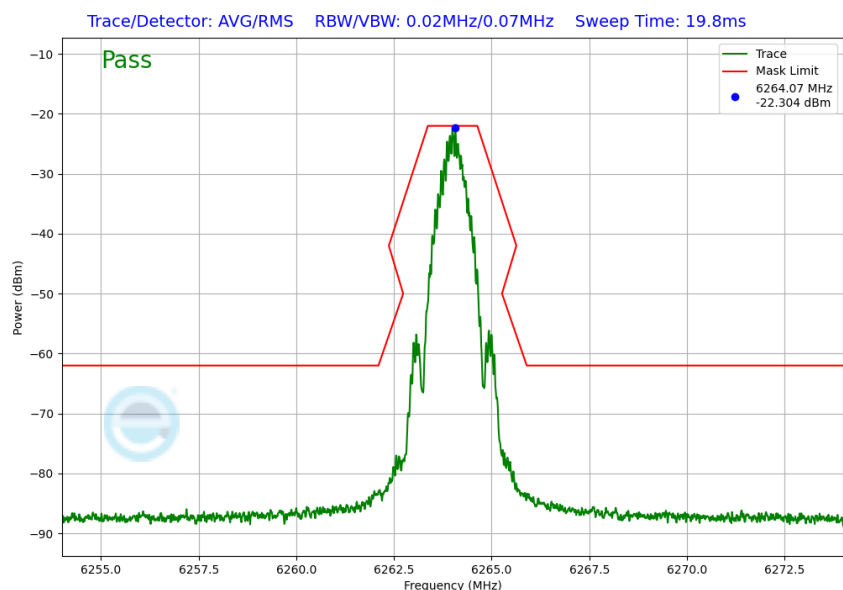
Table 7-8. NB UNII_R In-Band Emission Measurements

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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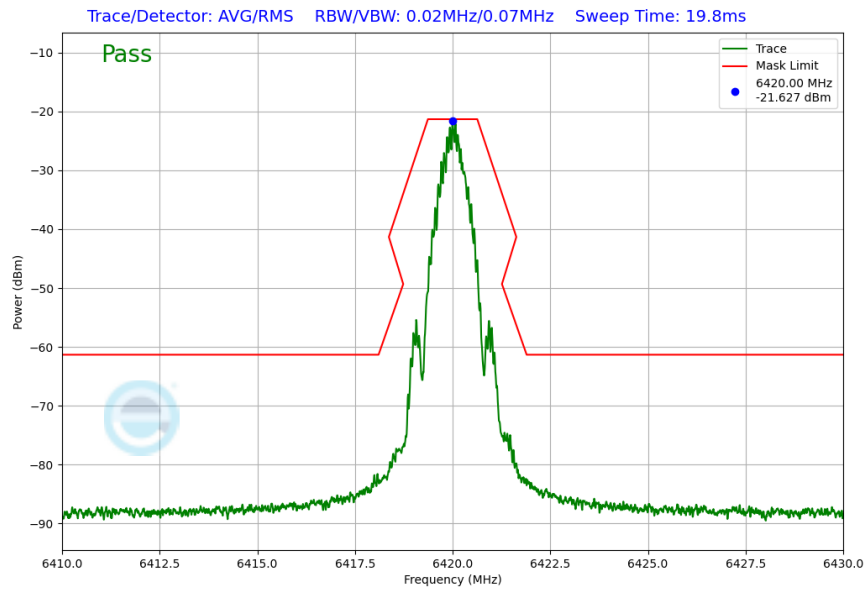
Plot 7-85. GEM (NB UNII_R BDR – 6108MHz)



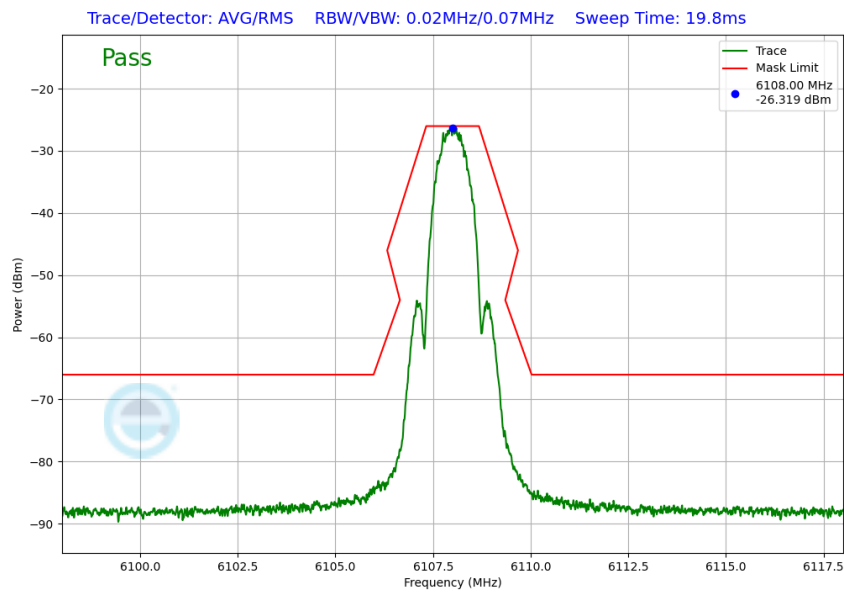
Plot 7-86. GEM (NB UNII_R BDR – 6264MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 70 of 136

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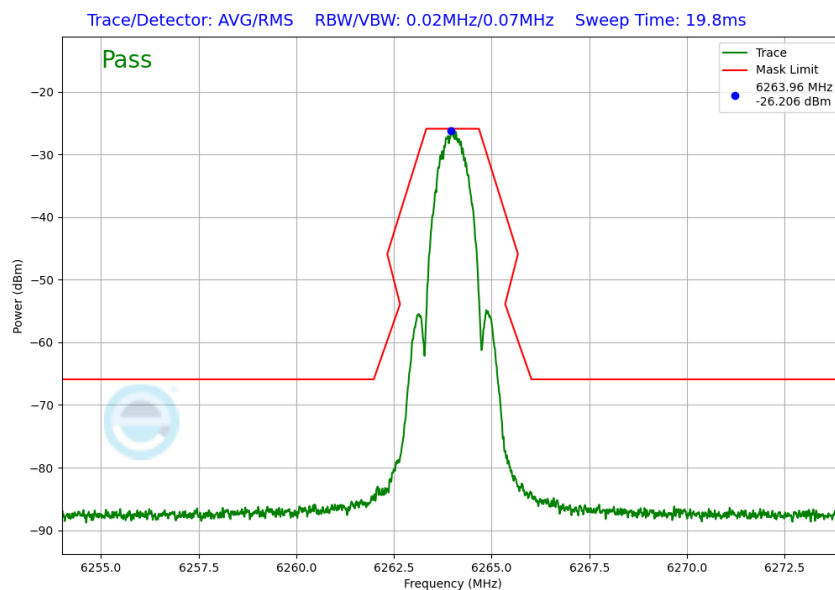
Plot 7-87. GEM (NB UNII_R BDR – 6420MHz)



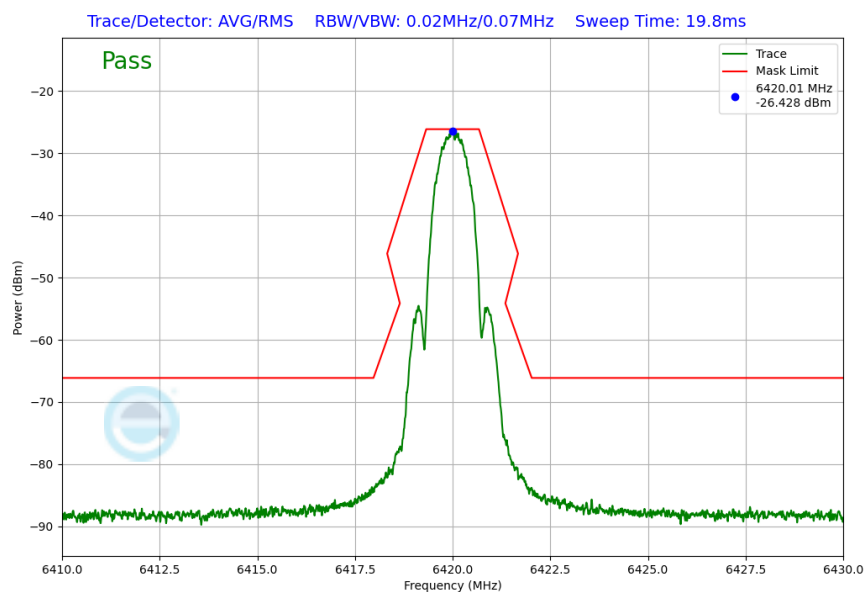
Plot 7-88. GEM (NB UNII_R LE1M – 6108MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-89. GEM (NB UNII_R LE1M – 6264MHz)

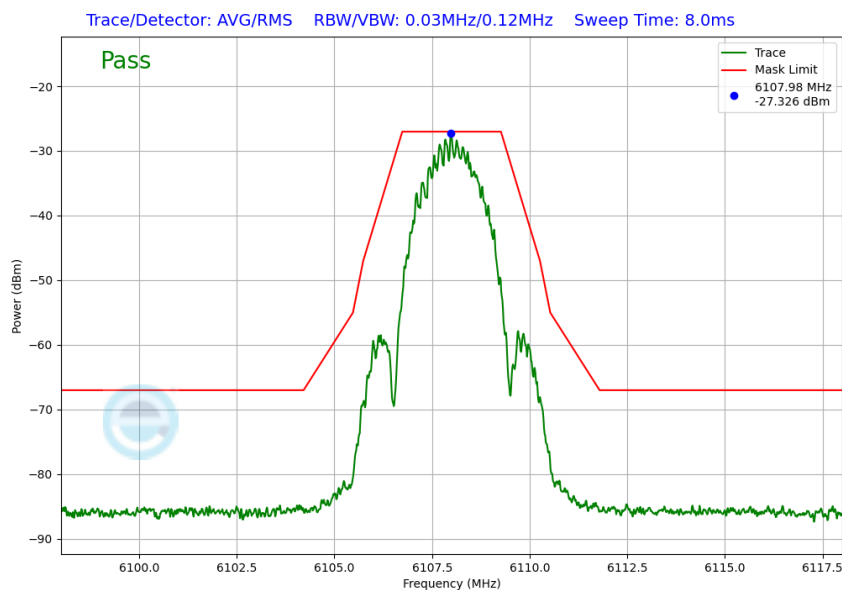


Plot 7-90. GEM (NB UNII_R LE1M – 6420MHz)

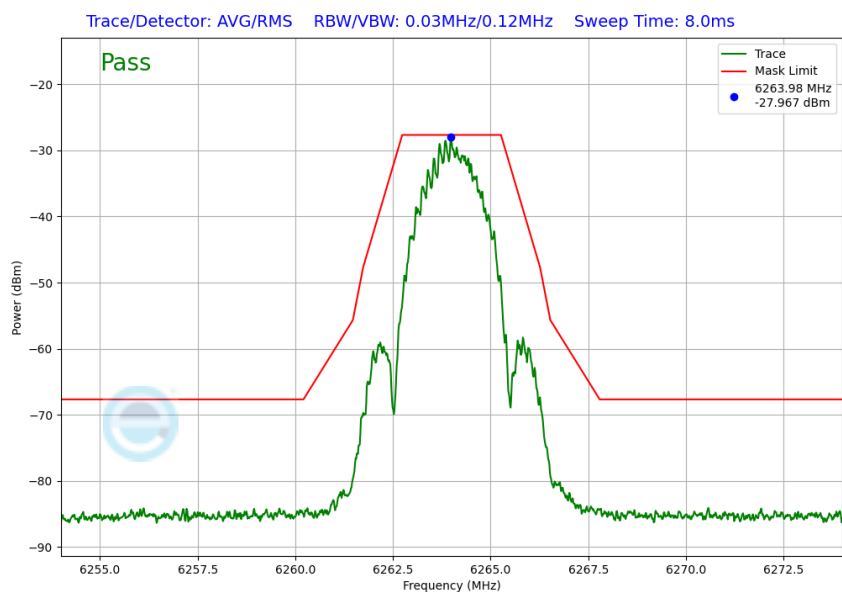
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-91. GEM (NB UNII_R LE2M – 6108MHz)

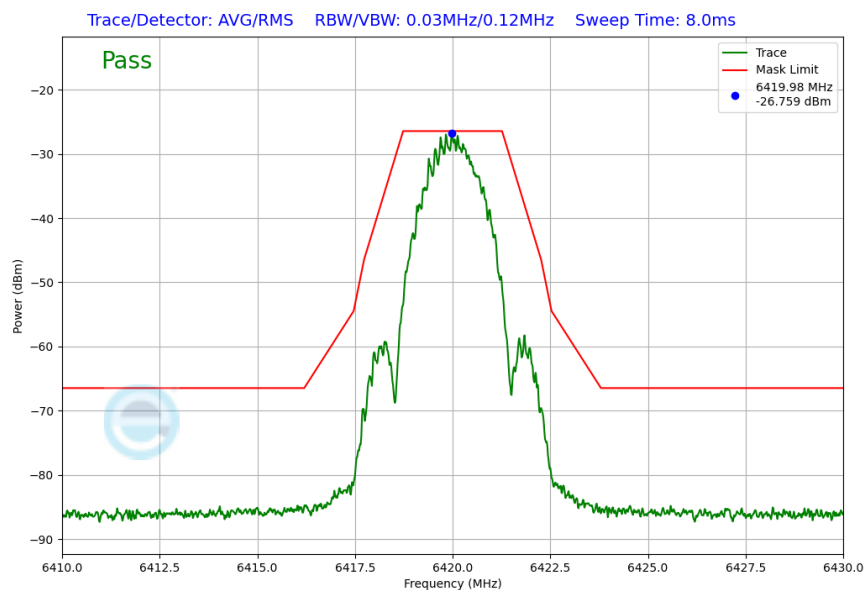


Plot 7-92. GEM (NB UNII_R LE2M – 6264MHz)

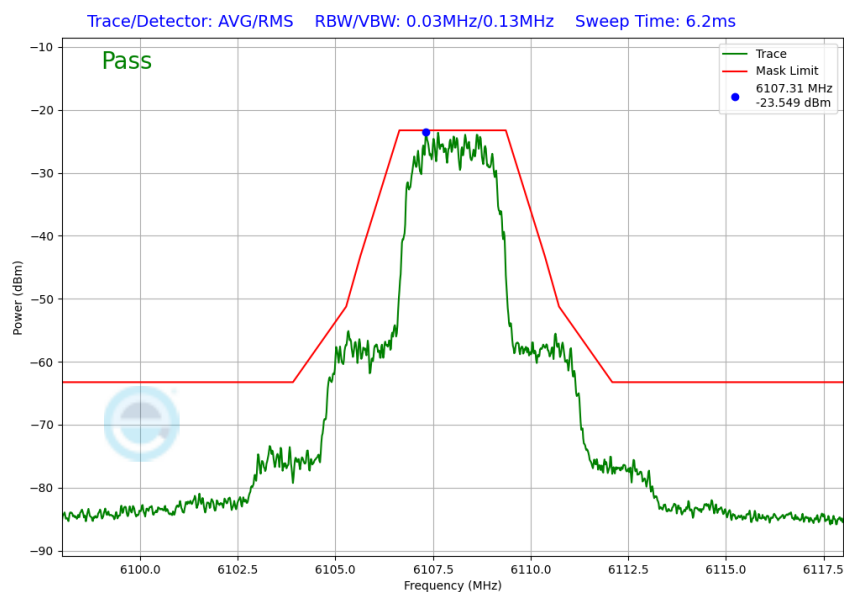
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 73 of 136

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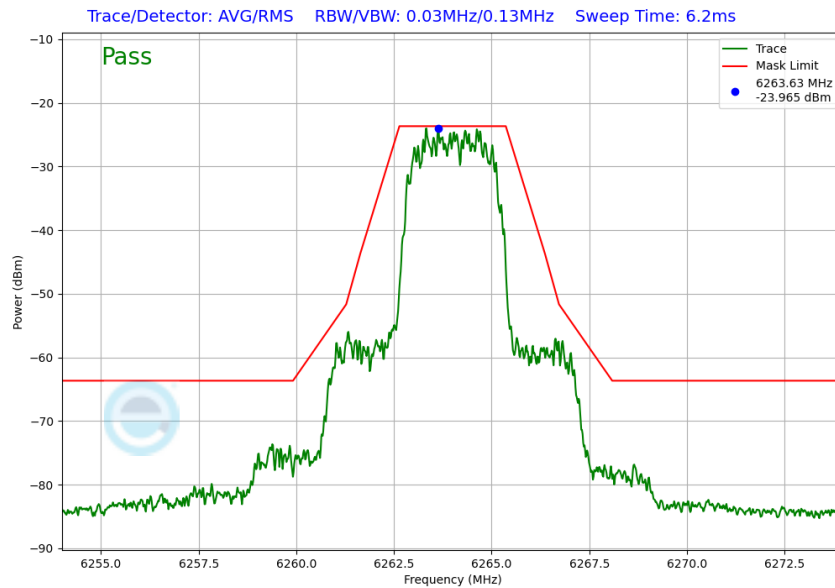
Plot 7-93. GEM (NB UNII_R LE2M – 6420MHz)



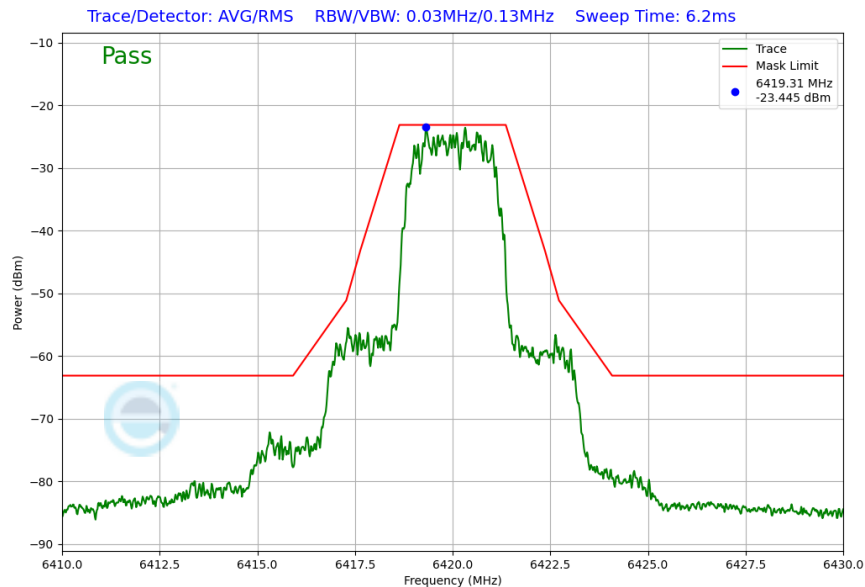
Plot 7-94. GEM (NB UNII_R HDR4 – 6108MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 74 of 136

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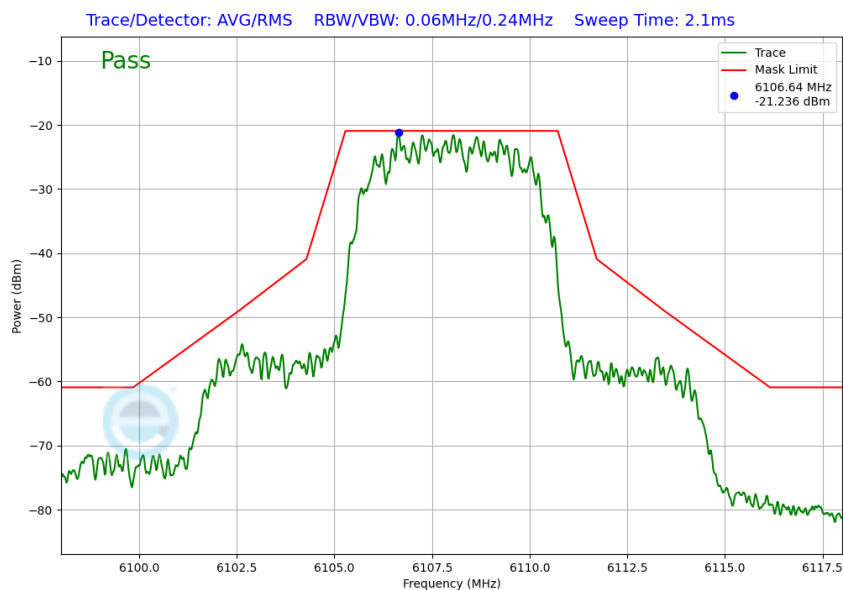
Plot 7-95. GEM (NB UNII_R HDR4 – 6264MHz)



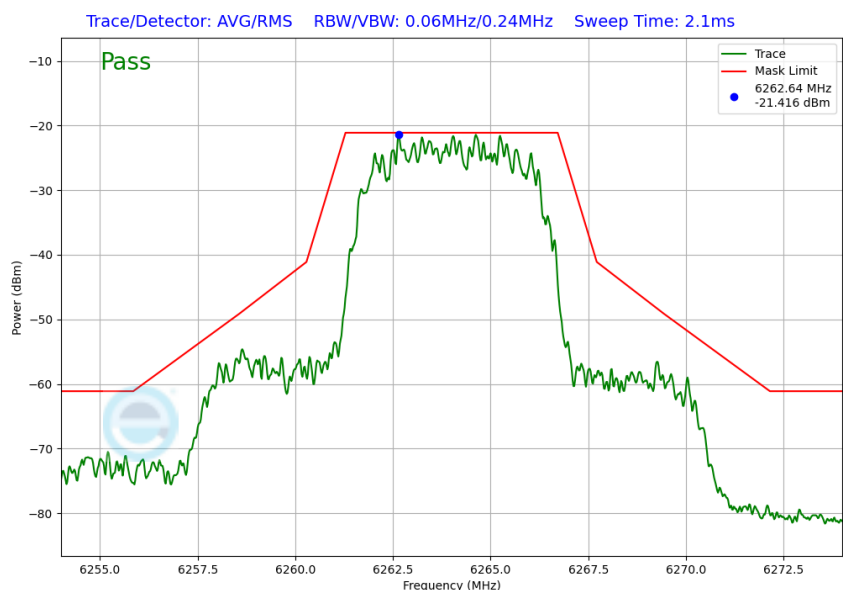
Plot 7-96. GEM (NB UNII_R HDR4 – 6420MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 75 of 136

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Plot 7-97. GEM (NB UNII_R HDR8 – 6108MHz)

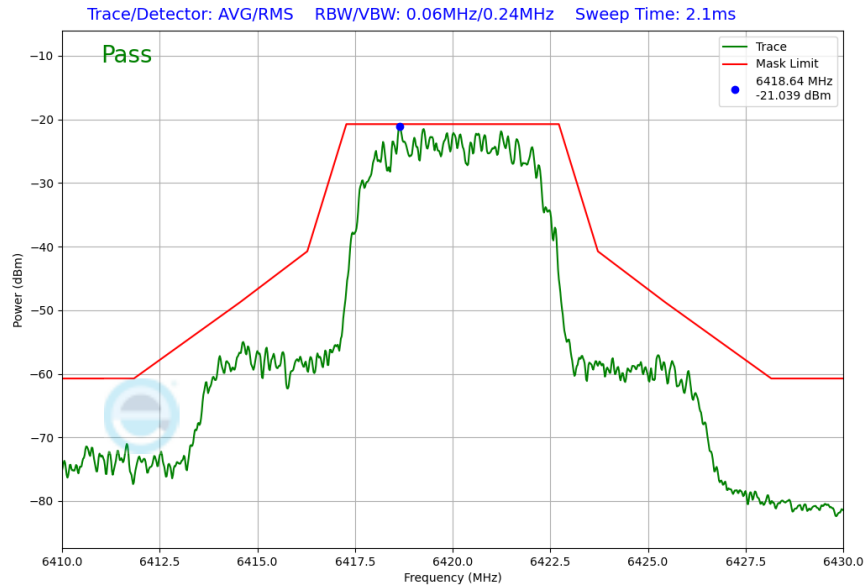


Plot 7-98. GEM (NB UNII_R HDR8 – 6264MHz)

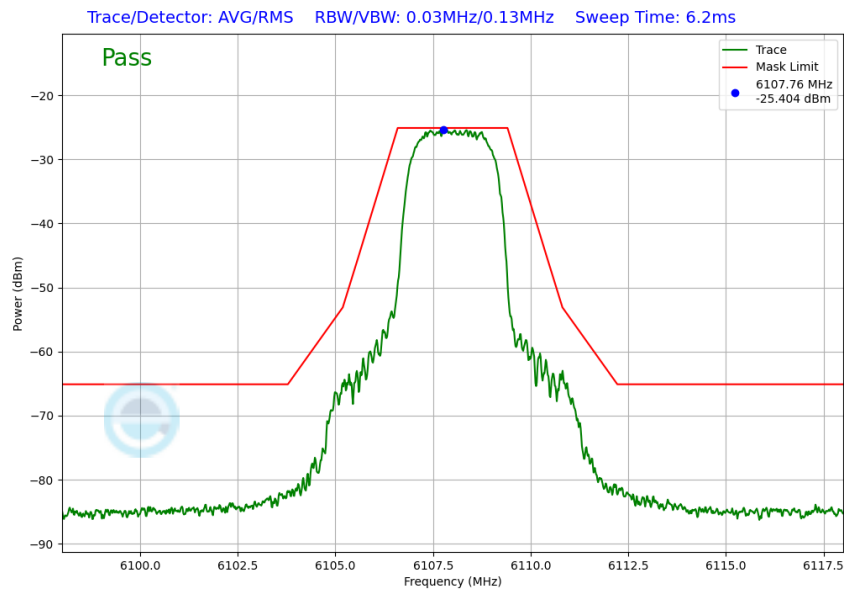
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 76 of 136

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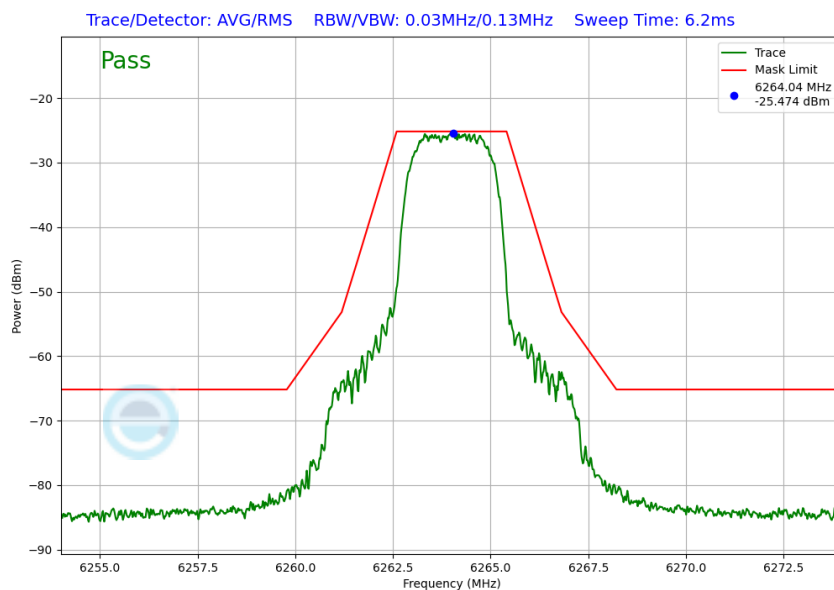
Plot 7-99. GEM (NB UNII_R HDR8 – 6420MHz)



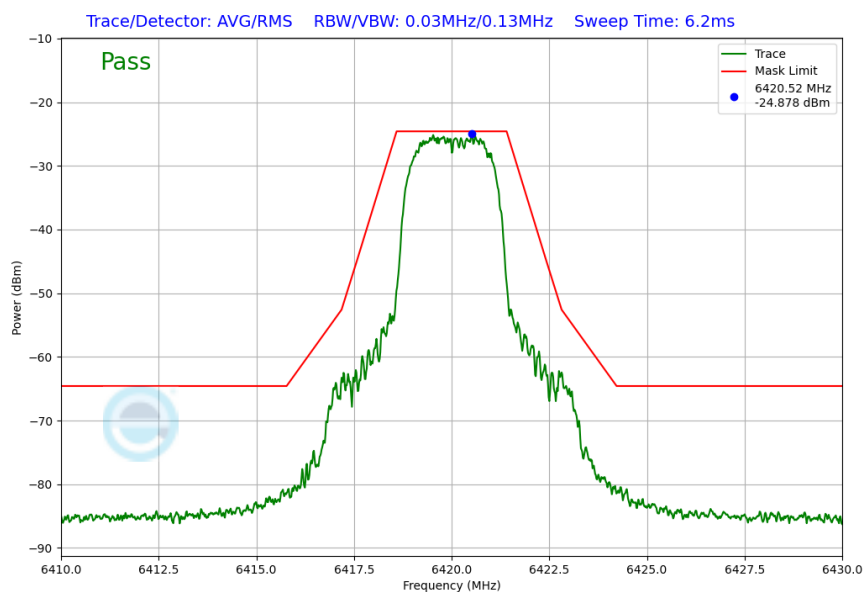
Plot 7-100. GEM (NB UNII_R HDRp4 – 6108MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 77 of 136

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Plot 7-101. GEM (NB UNII_R HDRp4 – 6264MHz)

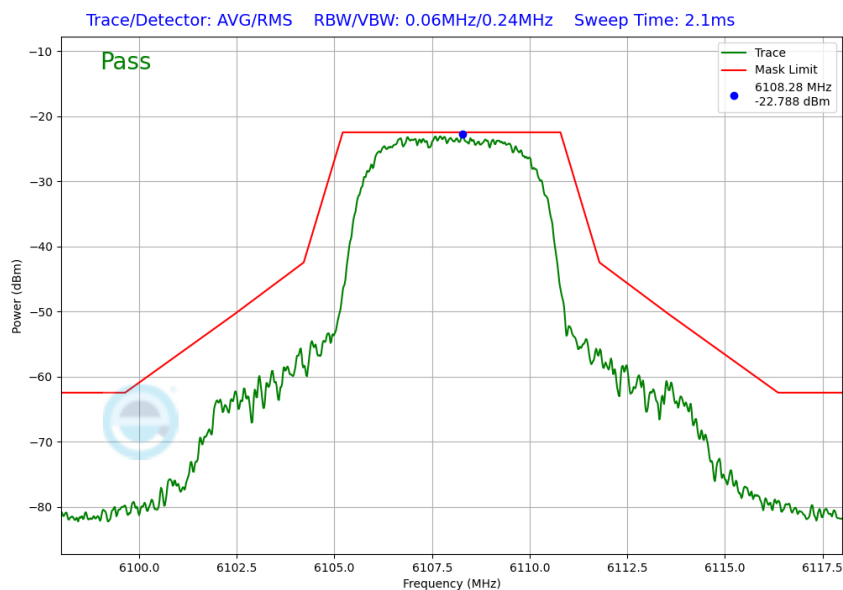


Plot 7-102. GEM (NB UNII_R HDRp4 – 6420MHz)

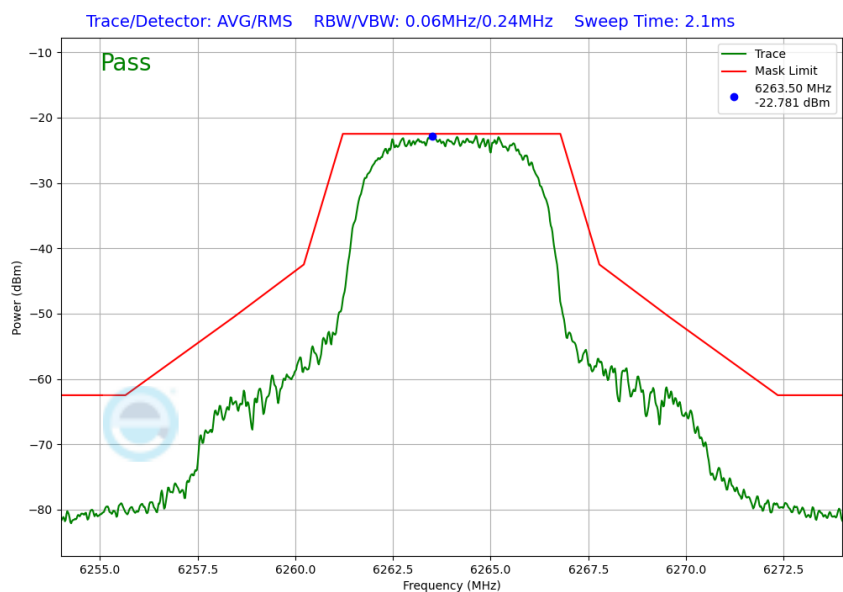
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 78 of 136

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Plot 7-103. GEM (NB UNII_R HDRp8 – 6108MHz)

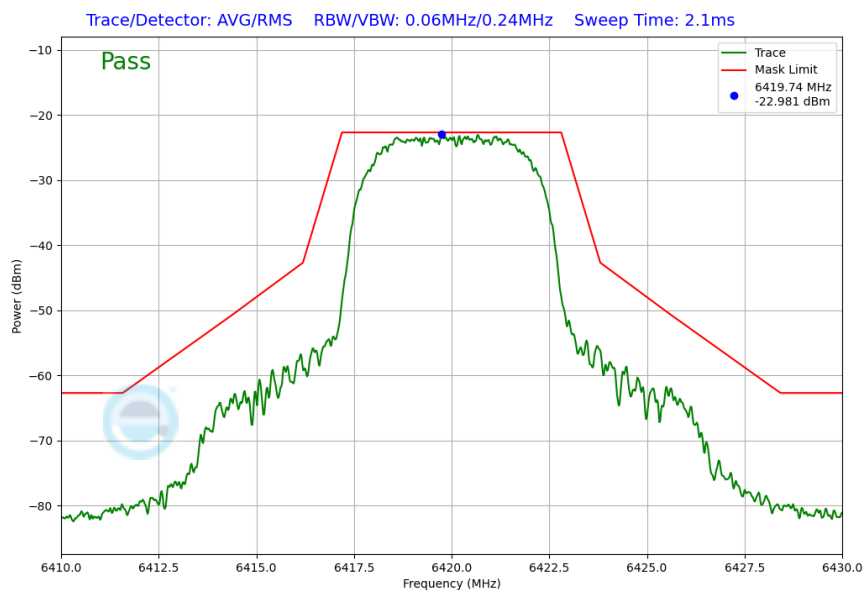


Plot 7-104. GEM (NB UNII_R HDRp8 – 6264MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 79 of 136

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Plot 7-105. GEM (NB UNII_R HDRp8 – 6420MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 80 of 136

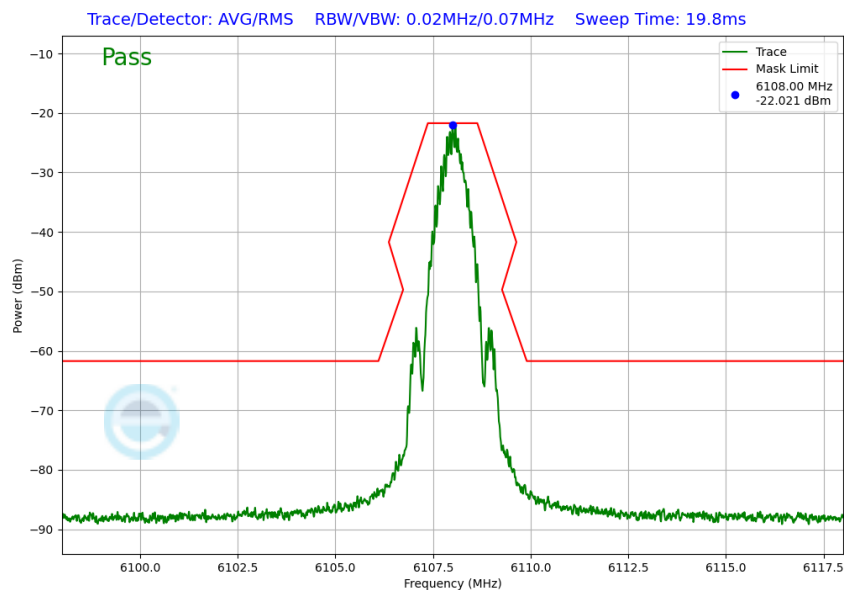
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Frequency [MHz]	Data Rate [Mbps]	Mode	NB_UNII_L In-Band Emission
6108	1.0	NB UNII BDR	Pass
6264	1.0	NB UNII BDR	Pass
6420	1.0	NB UNII BDR	Pass
6108	1.0	NB UNII LE1M	Pass
6264	1.0	NB UNII LE1M	Pass
6420	1.0	NB UNII LE1M	Pass
6108	2.0	NB UNII LE2M	Pass
6264	2.0	NB UNII LE2M	Pass
6420	2.0	NB UNII LE2M	Pass
6108	4.0	NB UNII HDR4	Pass
6264	4.0	NB UNII HDR4	Pass
6420	4.0	NB UNII HDR4	Pass
6108	4.0	NB UNII HDRp4	Pass
6264	4.0	NB UNII HDRp4	Pass
6420	4.0	NB UNII HDRp4	Pass
6108	8.0	NB UNII HDR8	Pass
6264	8.0	NB UNII HDR8	Pass
6420	8.0	NB UNII HDR8	Pass
6108	8.0	NB UNII HDRp8	Pass
6264	8.0	NB UNII HDRp8	Pass
6420	8.0	NB UNII HDRp8	Pass

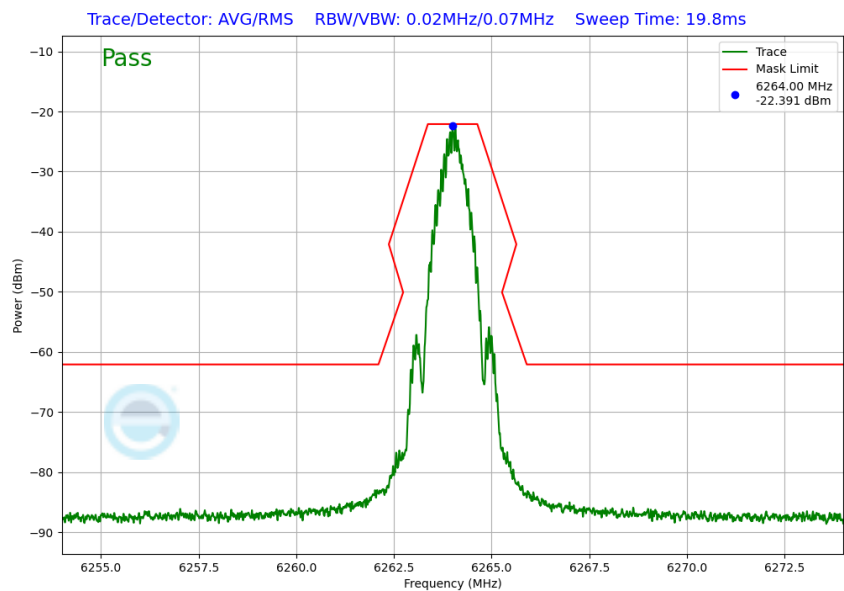
Table 7-9. NB UNII_L In-Band Emission Measurements

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Plot 7-106. GEM (NB UNII_L BDR – 6108MHz)

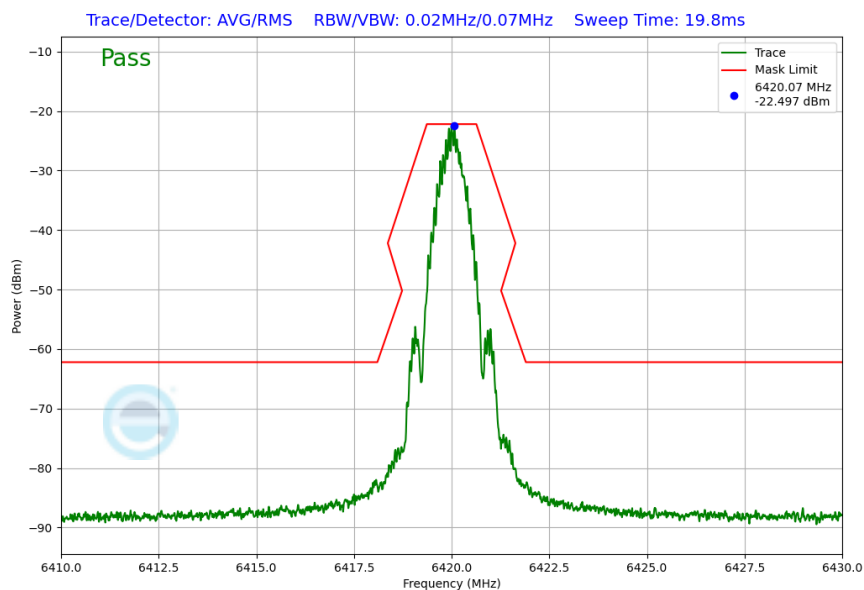


Plot 7-107. GEM (NB UNII_L BDR – 6264MHz)

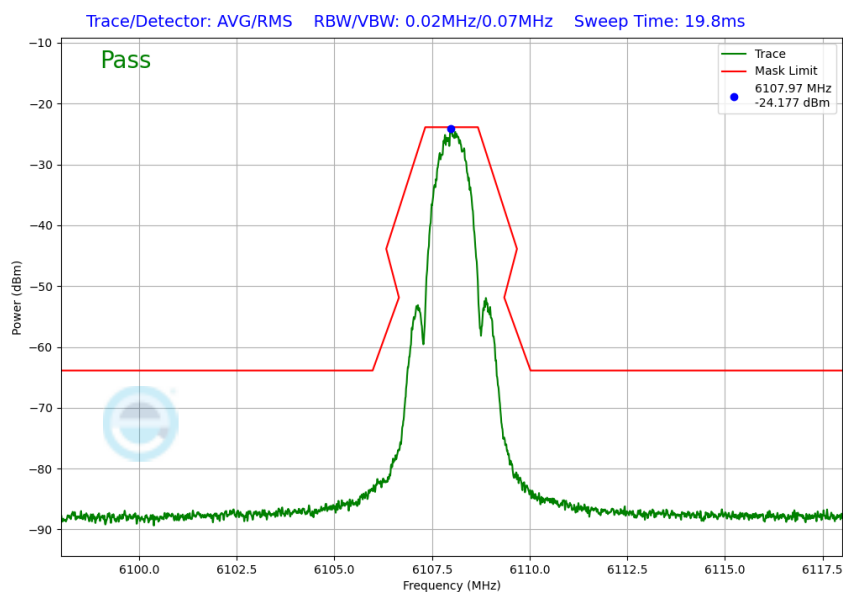
FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 82 of 136

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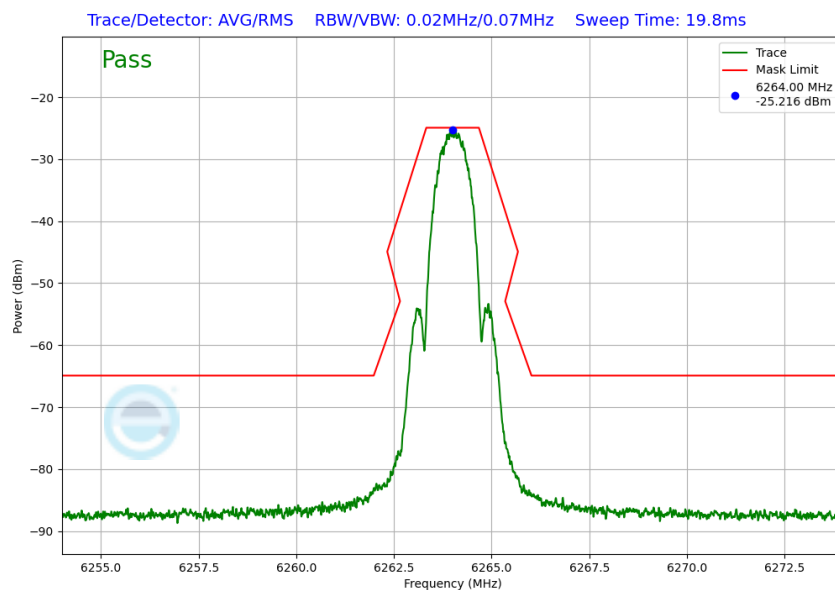
Plot 7-108. GEM (NB UNII_L BDR – 6420MHz)



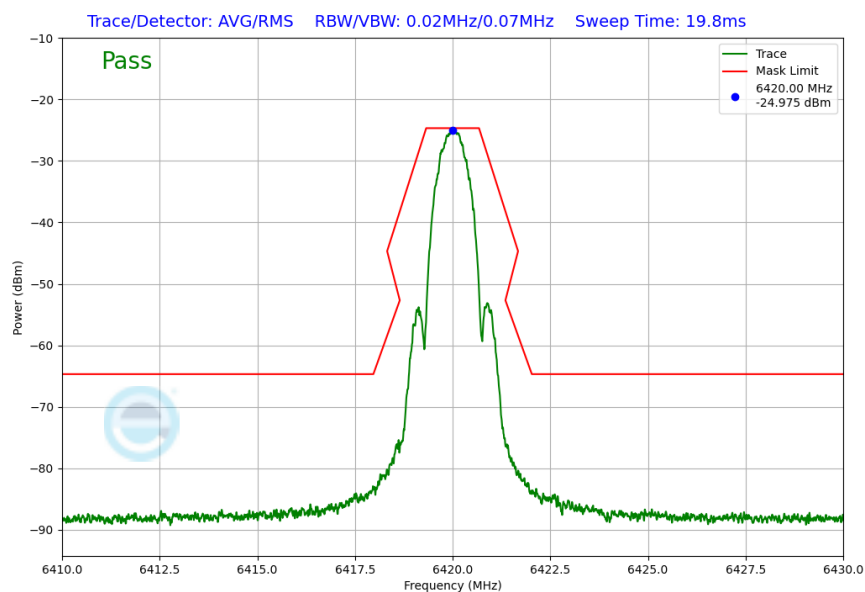
Plot 7-109. GEM (NB UNII_L LE1M – 6108MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2505120065-10.BCG	Test Dates: 5/12/2025 - 08/13/2025	EUT Type: Head Mounted Device	Page 83 of 136

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Plot 7-110. GEM (NB UNII_L LE1M – 6264MHz)



Plot 7-111. GEM (NB UNII_L LE1M – 6420MHz)

FCC ID: BCGA3416 IC: 579C-A3416		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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