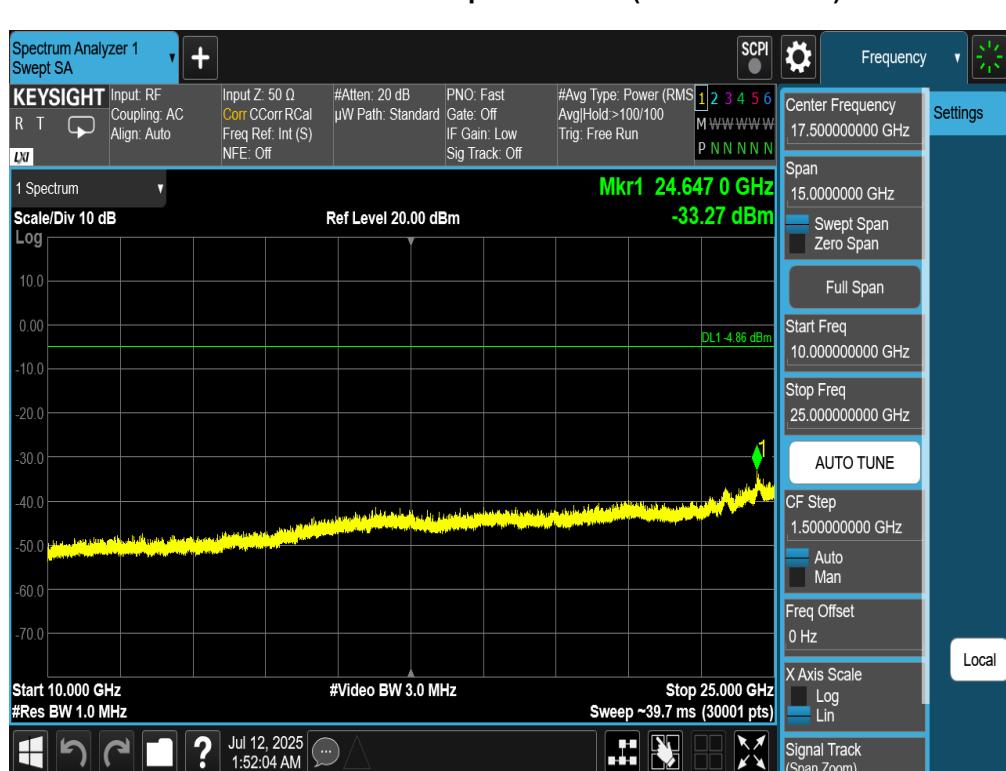
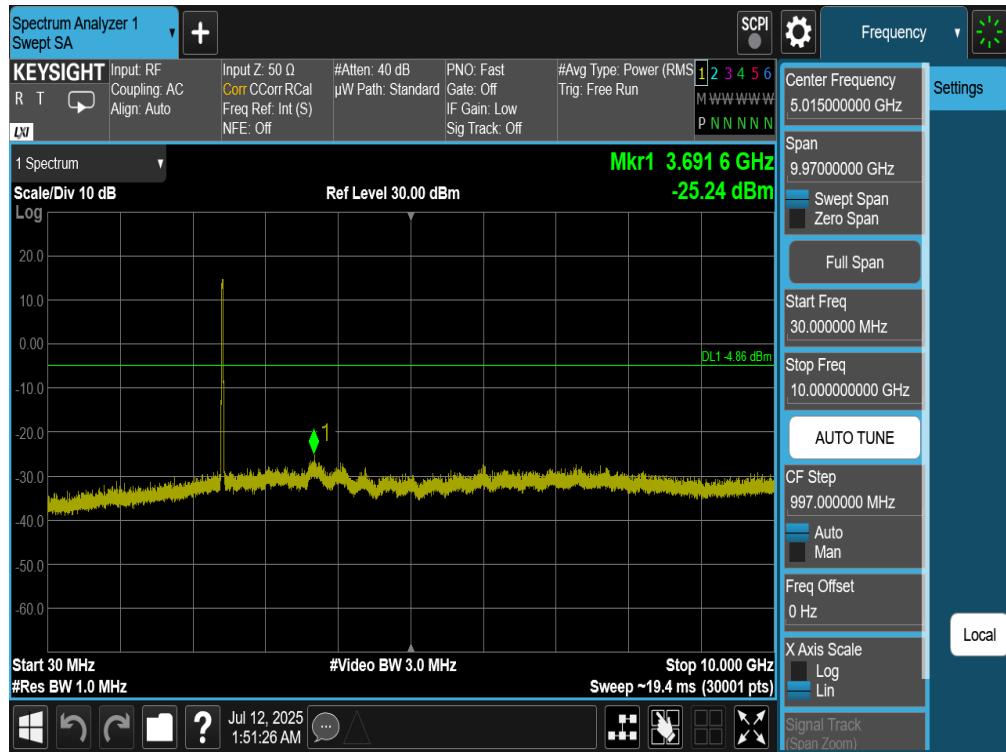


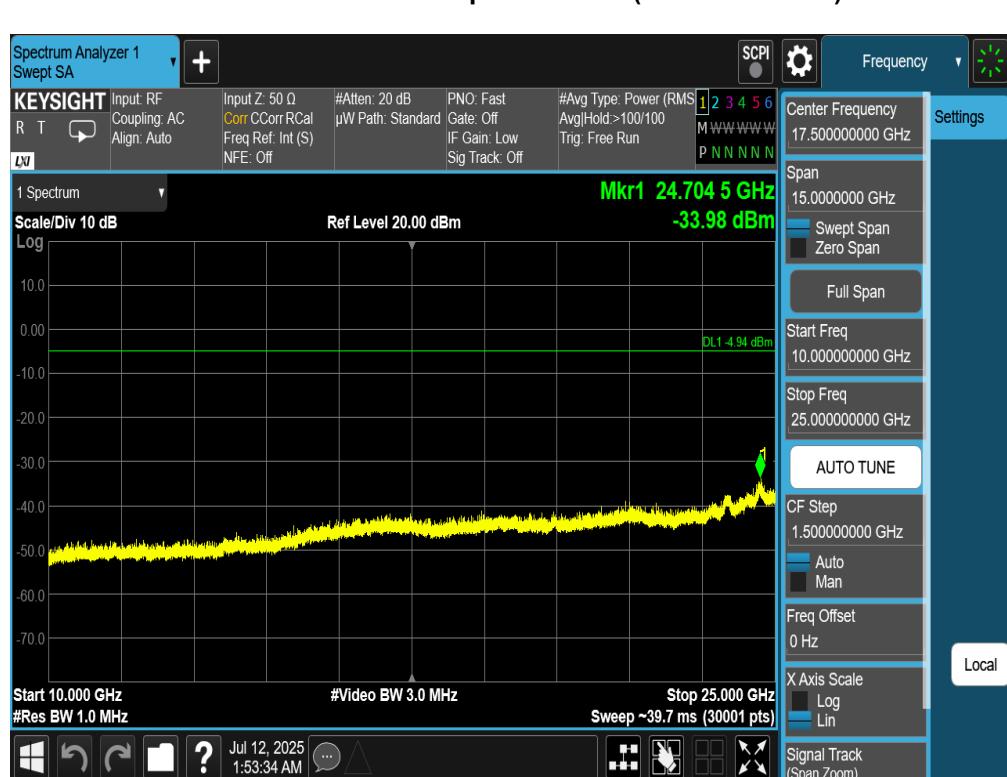
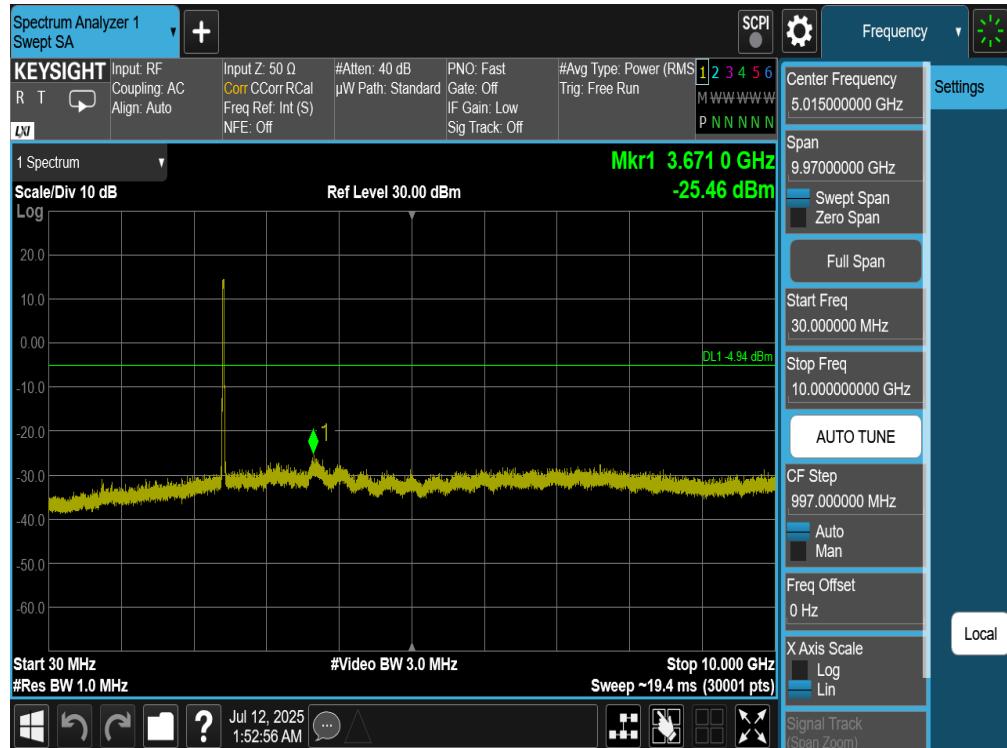
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 20dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 20dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.
4. The conducted spurious emissions were measured to relative limits.
5. The unit was tested with all possible modes and only the highest emission is reported.

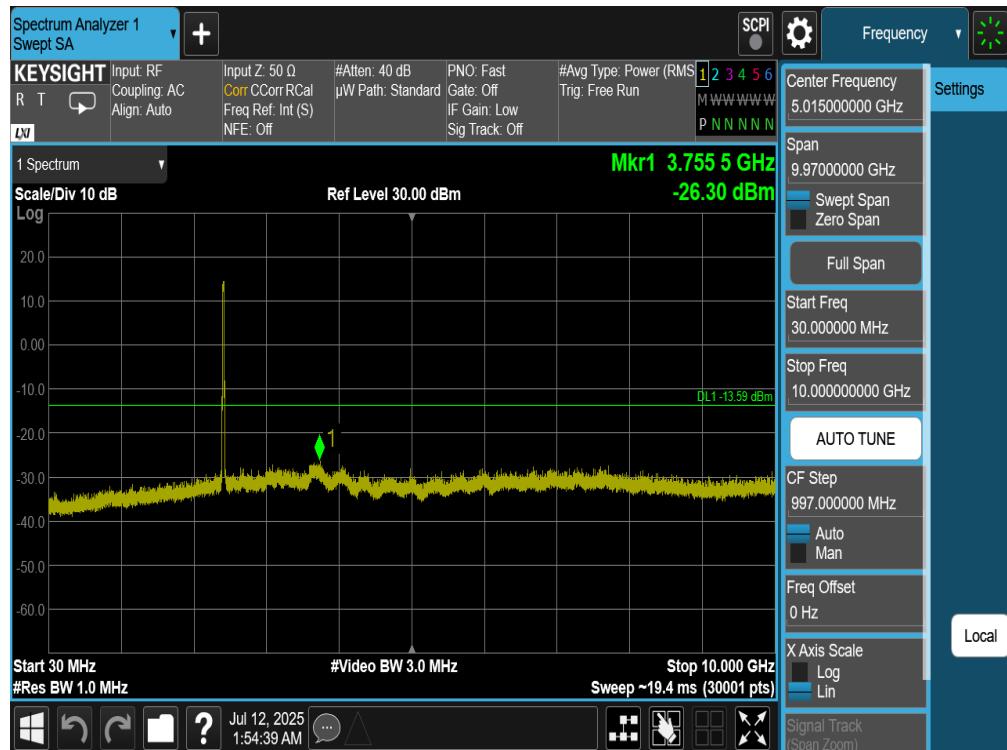
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 48 of 79



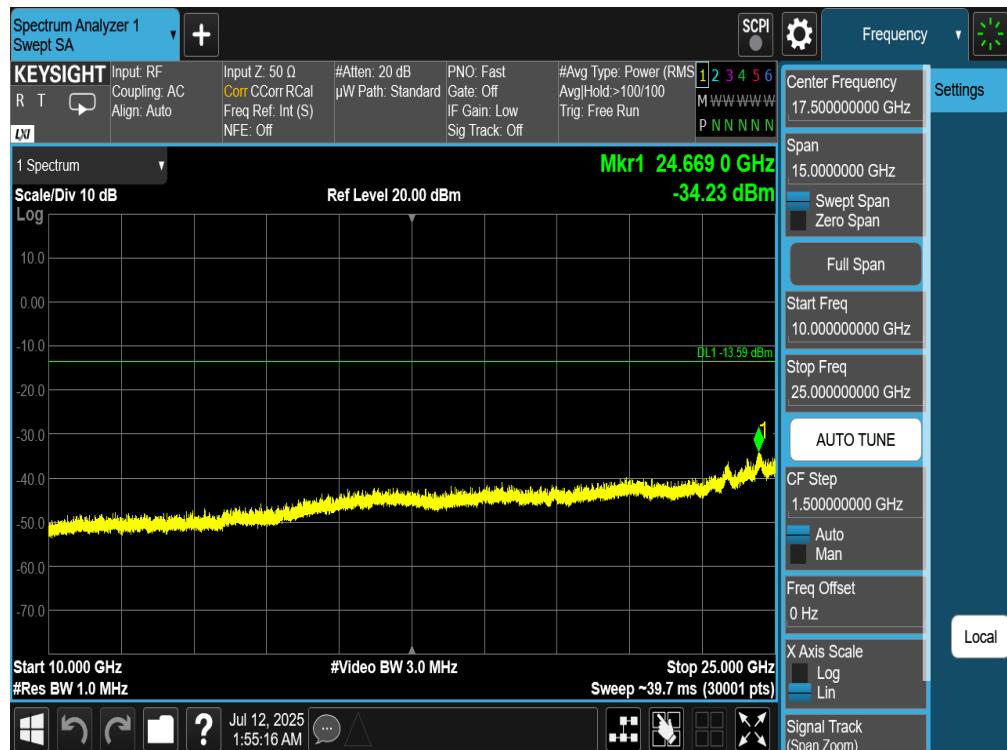
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 49 of 79



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Plot 7-54. Conducted Spurious Plot (802.11b – Ch. 11)



Plot 7-55. Conducted Spurious Plot (802.11b – Ch. 11)

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7.7 Radiated Spurious Emissions – Above 1 GHz

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

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

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

Table 7-6. Radiated Limits

Test Procedures Used

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

Test Settings

Average Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times$ span/RBW)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

Peak Field Strength Measurements

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

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Test Setup

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

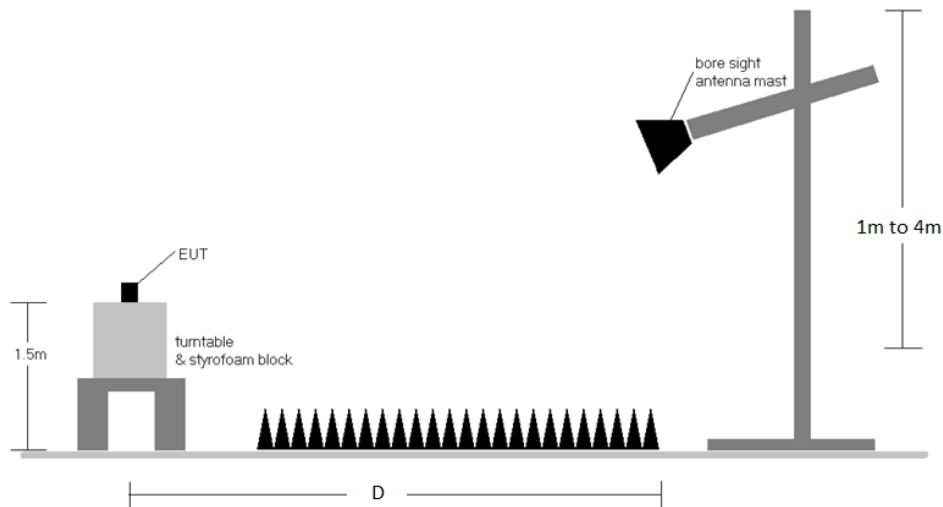


Figure 7-6. Radiated Measurement Setup

Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 D01 v05r02 were not used to evaluate this device for compliance to radiated limits. All Radiated Spurious Emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in Section 15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-6.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas.
6. D is the measurement test distance and emissions 1-18GHz were measured at a 3 meters test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. The unit was tested with all possible modes and only the highest emission is reported.

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Sample Calculations

Determining Spurious Emissions Levels

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

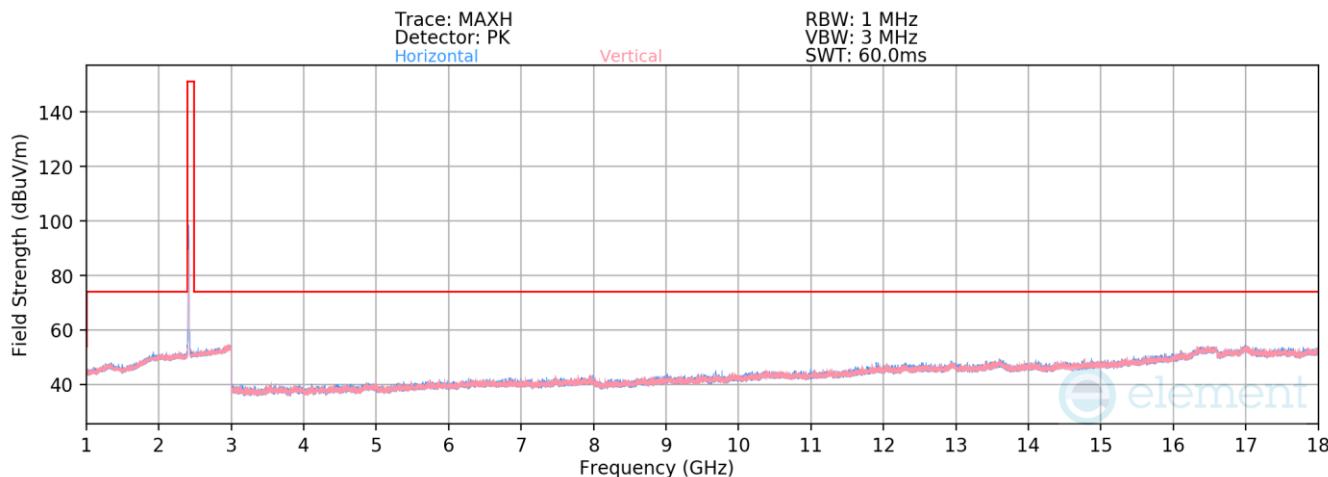
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

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Radiated Spurious Emission Measurements

§15.247(d) §15.205 & §15.209; RSS-Gen [8.9]



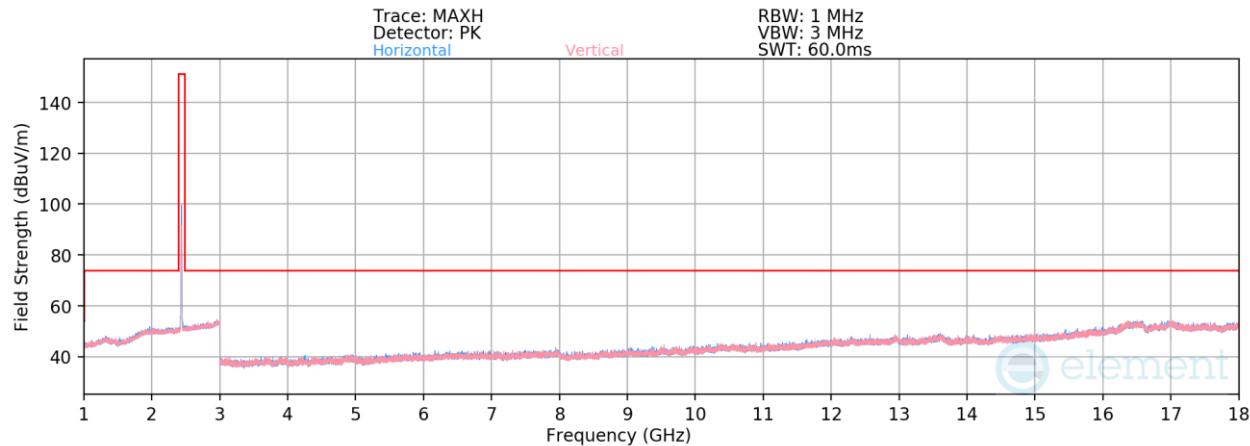
Plot 7-56. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 1)

Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 01

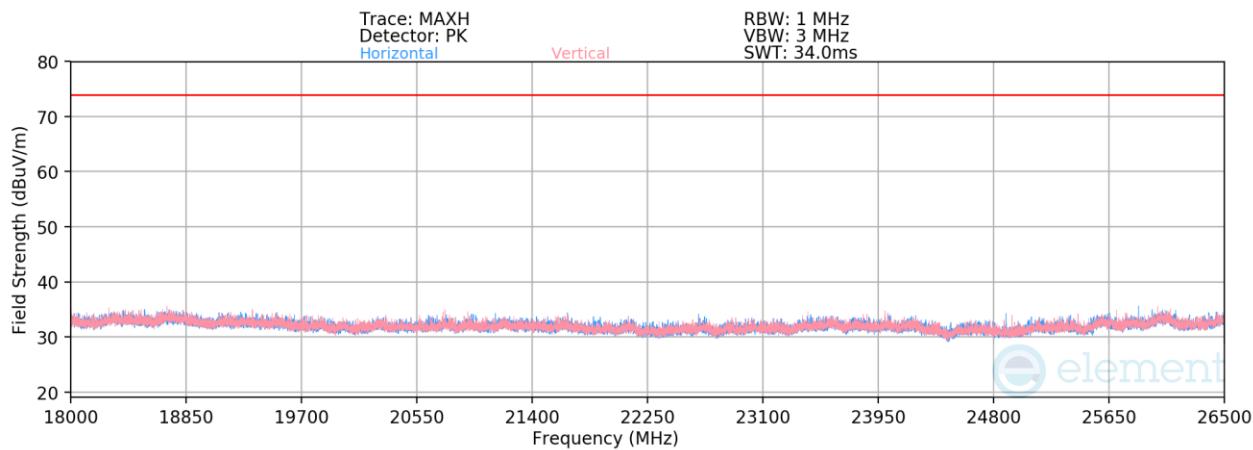
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	Limit [dB μ V/m]	Margin [dB]
4824.00	Avg	V	-	-	-85.44	8.16	29.72	53.98	-24.26
4824.00	Peak	V	-	-	-73.89	7.97	41.09	73.98	-32.89
12060.00	Avg	V	-	-	-88.78	18.03	36.25	53.98	-17.73
12060.00	Peak	V	-	-	-77.06	17.65	47.59	73.98	-26.39

Table 7-7. Radiated Measurements

FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 55 of 79



Plot 7-57. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 6)



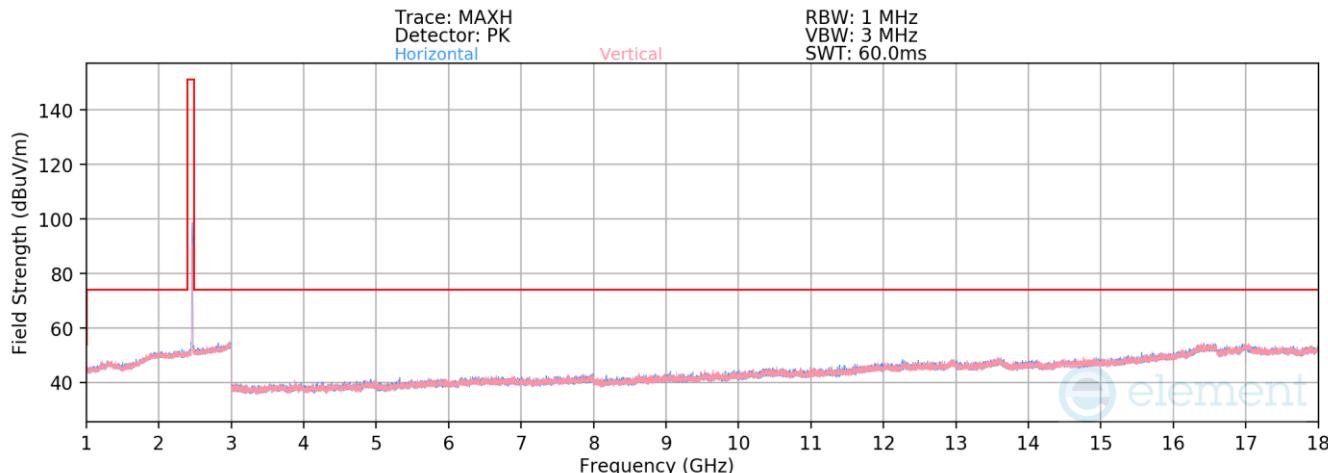
Plot 7-58. Radiated Spurious Emissions Above 18GHz (802.11b – Ch. 6)

Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 06

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]
4874.00	Avg	V	-	-	-85.25	8.29	30.03	53.98	-23.95
4874.00	Peak	V	-	-	-73.69	8.06	41.37	73.98	-32.61
7311.00	Avg	V	302	205	-80.22	11.17	37.95	53.98	-16.03
7311.00	Peak	V	302	205	-72.49	11.17	45.69	73.98	-28.29
12185.00	Avg	V	-	-	-88.32	17.41	36.10	53.98	-17.88
12185.00	Peak	V	-	-	-76.25	17.32	48.07	73.98	-25.91

Table 7-8. Radiated Measurements

FCC ID: BCG-A3337 IC: 579C-A3337	 element					MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025		EUT Type: Watch					Page 56 of 79	



Plot 7-59. Radiated Spurious Emissions above 1GHz (802.11b – Ch. 11)

Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11

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]
4924.00	Avg	V	-	-	-85.32	8.18	29.86	53.98	-24.12
4924.00	Peak	V	-	-	-73.88	8.28	41.41	73.98	-32.57
7386.00	Avg	V	307	209	-84.30	11.33	34.02	53.98	-19.96
7386.00	Peak	V	307	209	-74.51	11.33	43.81	73.98	-30.16
12310.00	Avg	V	-	-	-88.80	18.76	36.97	53.98	-17.01
12310.00	Peak	V	-	-	-77.68	18.66	47.99	73.98	-25.99

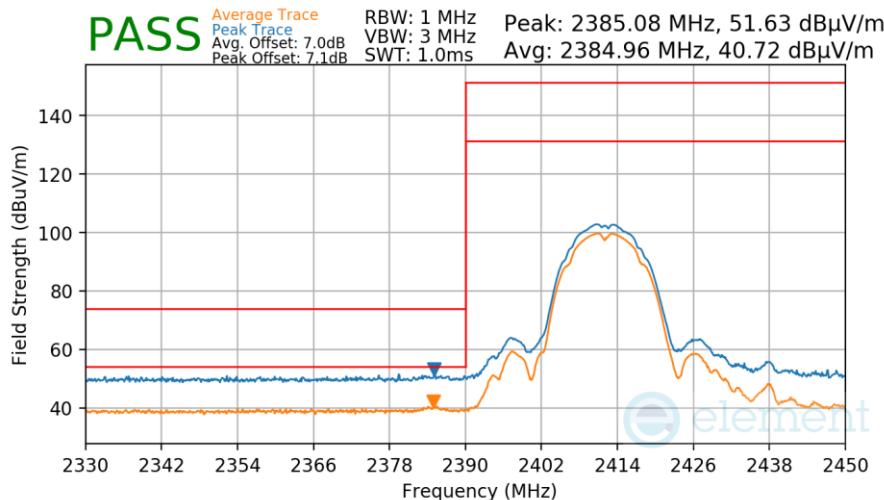
Table 7-9. Radiated Measurements

FCC ID: BCG-A3337 IC: 579C-A3337	 element MEASUREMENT REPORT (CERTIFICATION)			Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 57 of 79	

Radiated Spurious Emission Measurements

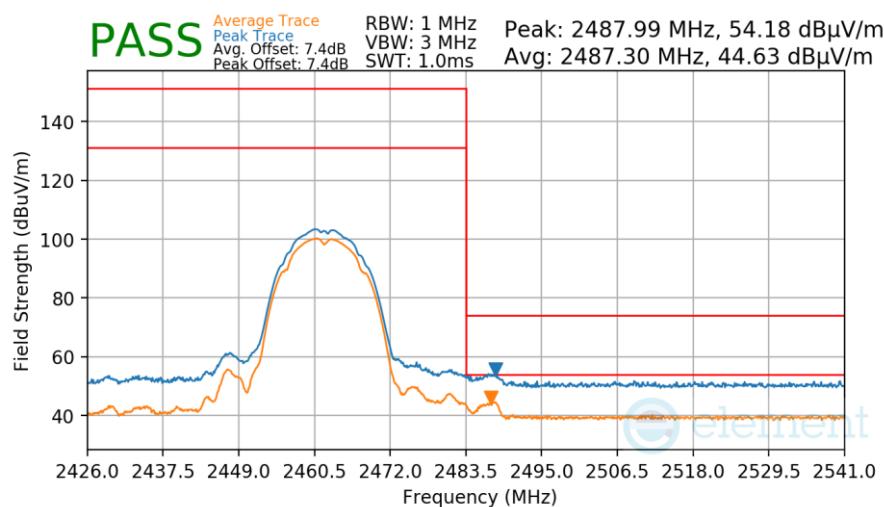
§15.205 §15.209; RSS-Gen [8.9]

Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-60. Radiated Restricted Lower Band Edge Measurement

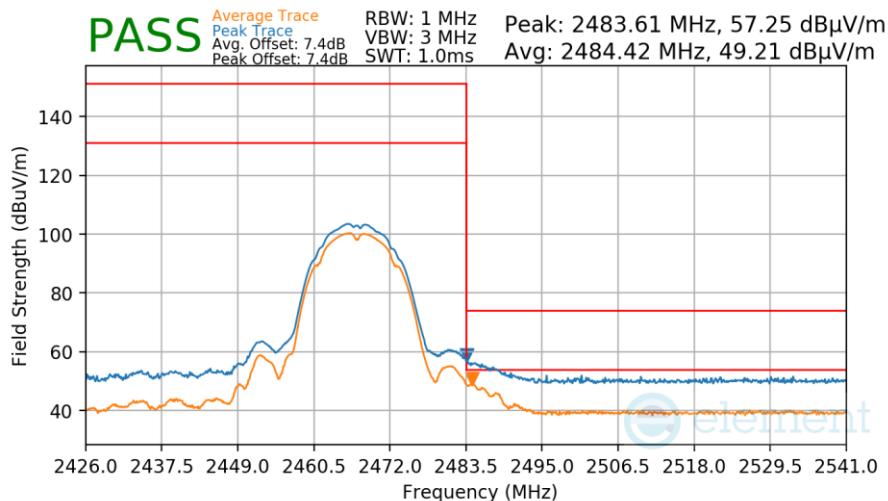
Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-61. Radiated Restricted Upper Band Edge Measurement

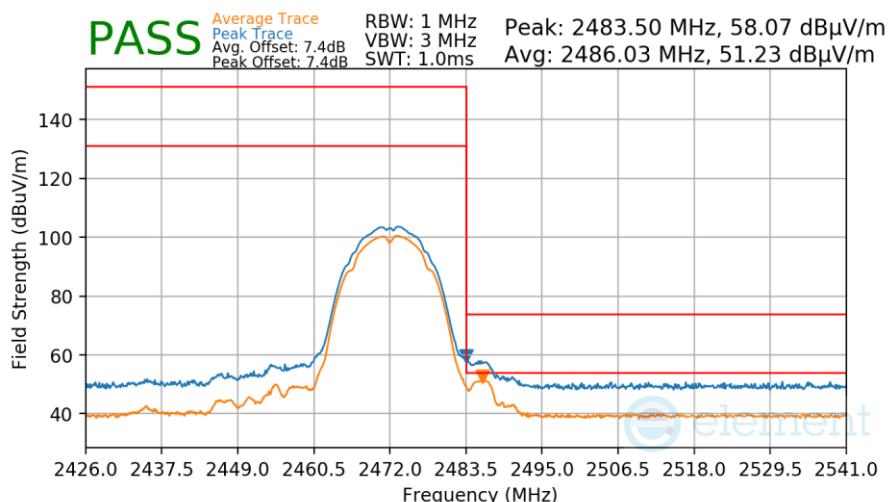
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-62. Radiated Restricted Upper Band Edge Measurement

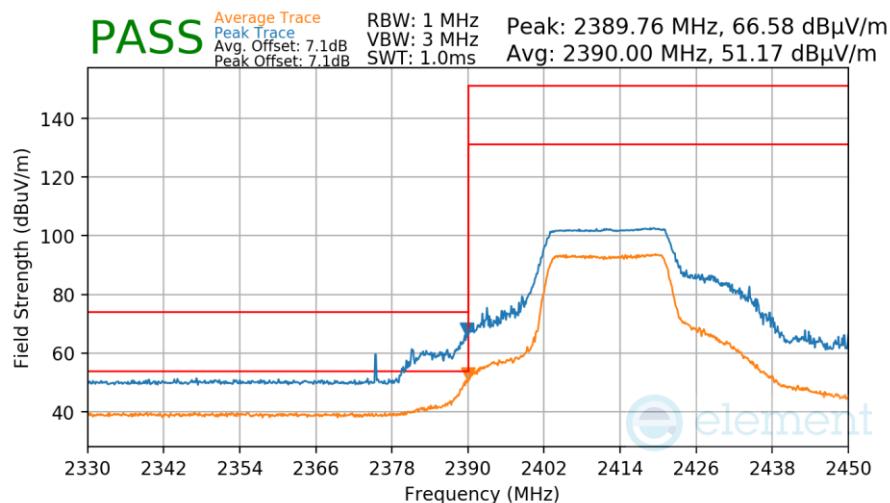
Mode: 802.11b
 Data Rate: 1Mbps
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-63. Radiated Restricted Upper Band Edge Measurement

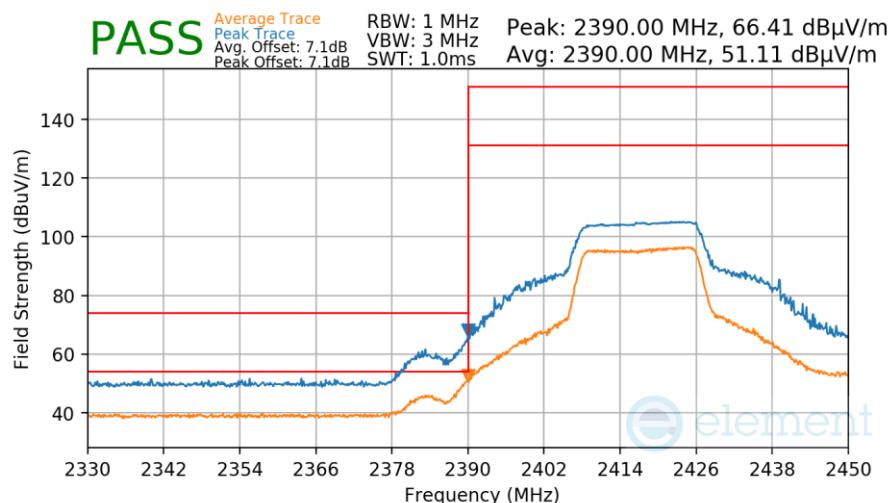
FCC ID: BCG-A3337 IC: 579C-A3337	 element		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch		Page 59 of 79

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-64. Radiated Restricted Lower Band Edge Measurement

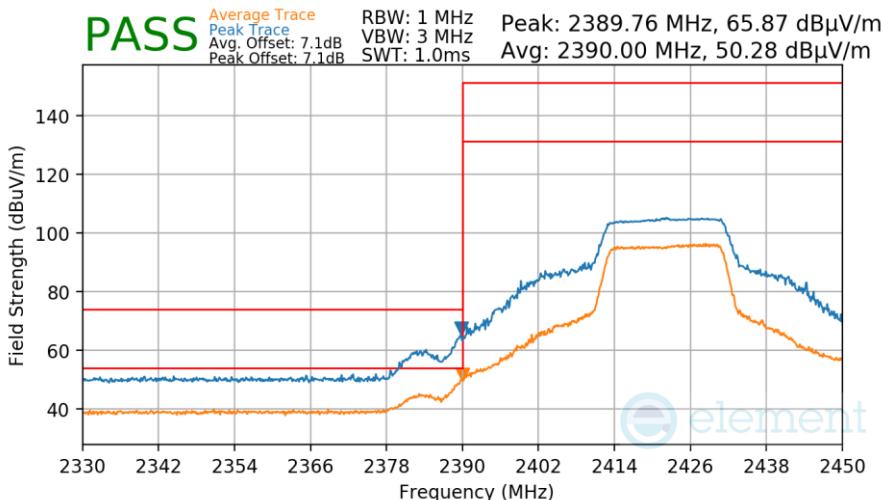
Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-65. Radiated Restricted Lower Band Edge Measurement

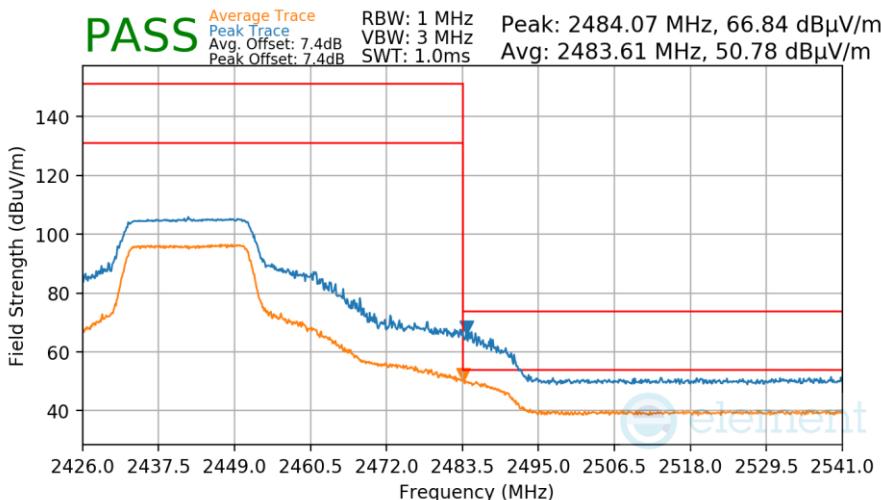
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 60 of 79

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-66. Radiated Restricted Lower Band Edge Measurement

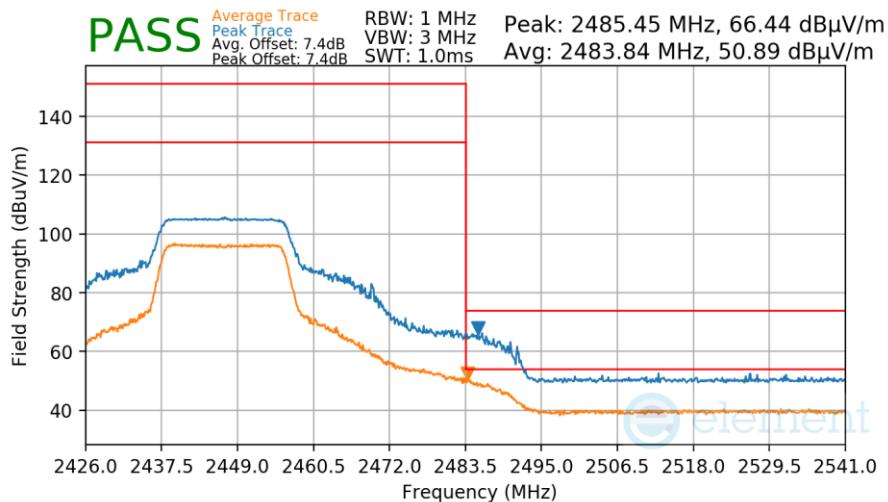
Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-67. Radiated Restricted Upper Band Edge Measurement

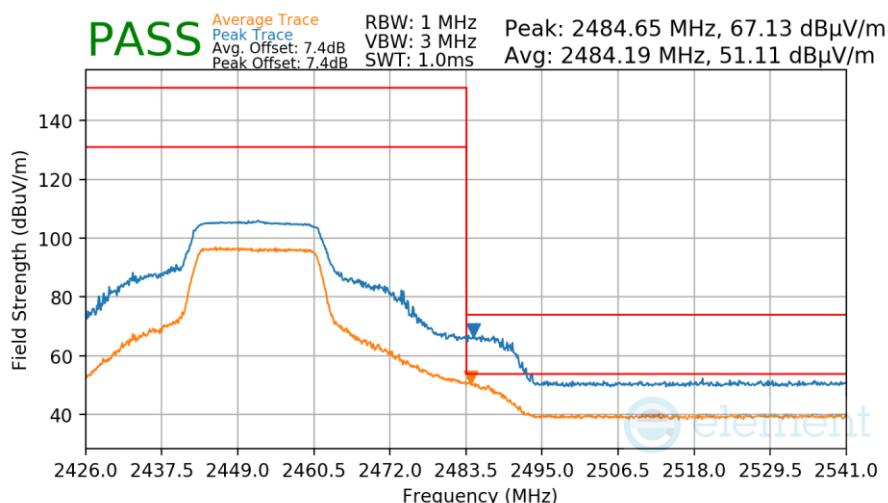
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 61 of 79

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-68. Radiated Restricted Upper Band Edge Measurement

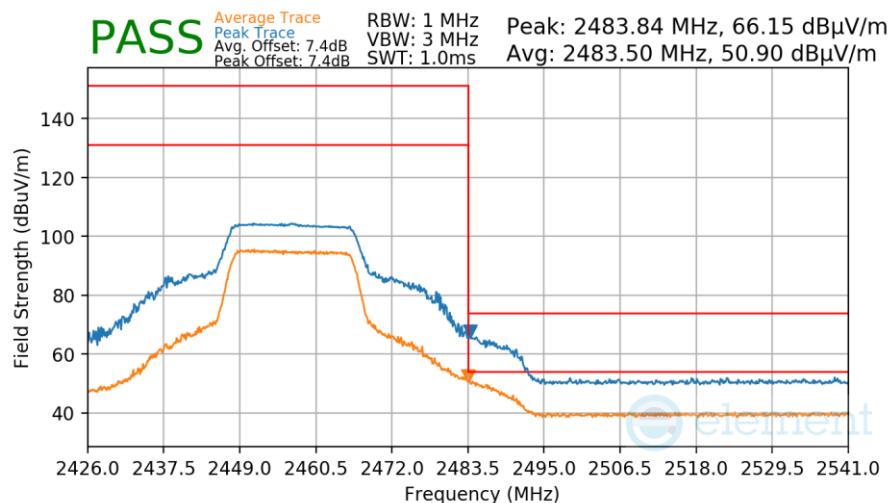
Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-69. Radiated Restricted Upper Band Edge Measurement

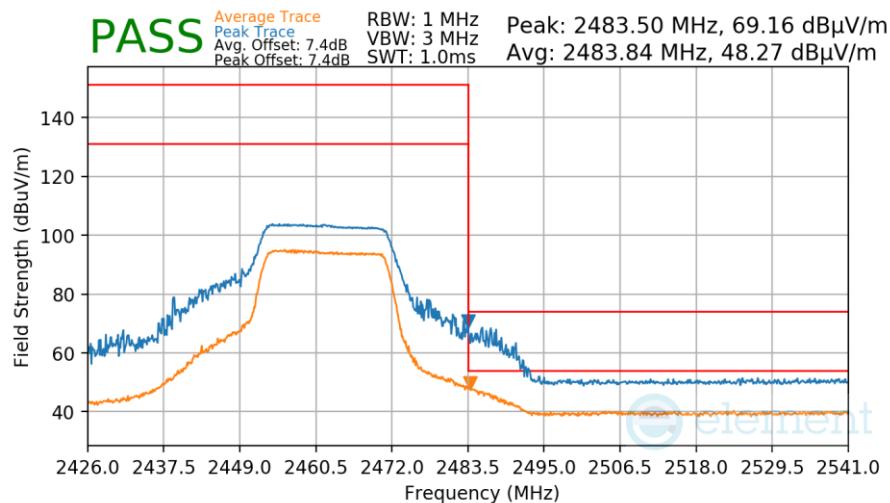
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 62 of 79

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-70. Radiated Restricted Upper Band Edge Measurement

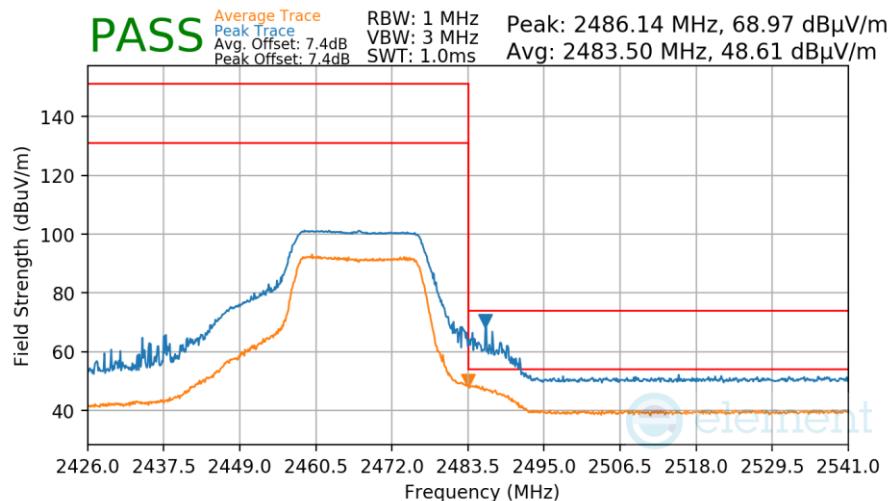
Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-71. Radiated Restricted Upper Band Edge Measurement

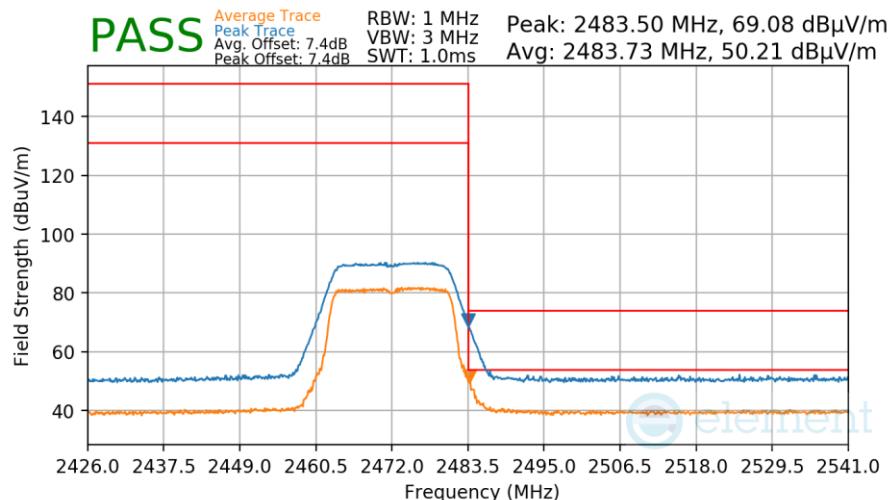
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 63 of 79

Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-72. Radiated Restricted Upper Band Edge Measurement

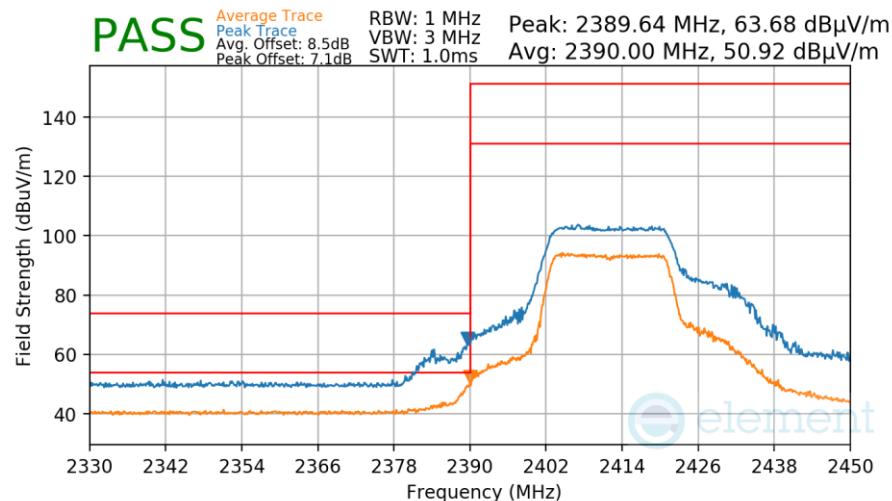
Mode: 802.11n
 Data Rate: MCS0
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-73. Radiated Restricted Upper Band Edge Measurement

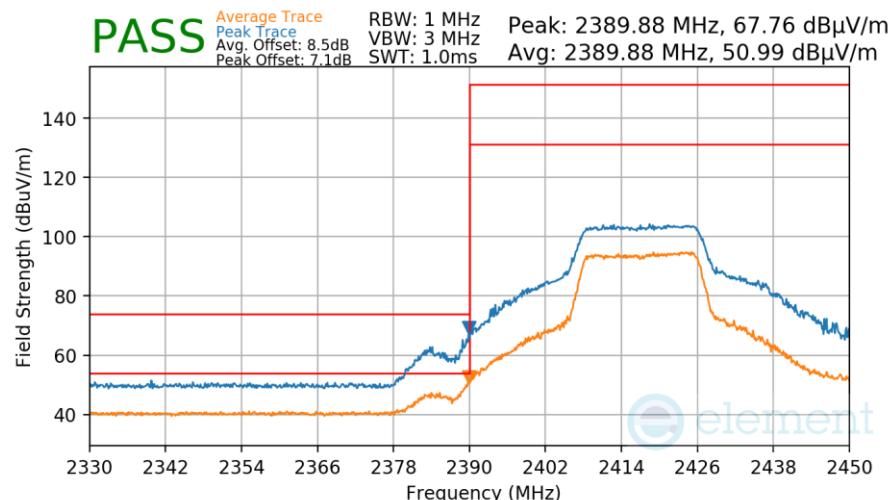
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 64 of 79

Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2412MHz
 Channel: 1



Plot 7-74. Radiated Restricted Lower Band Edge Measurement

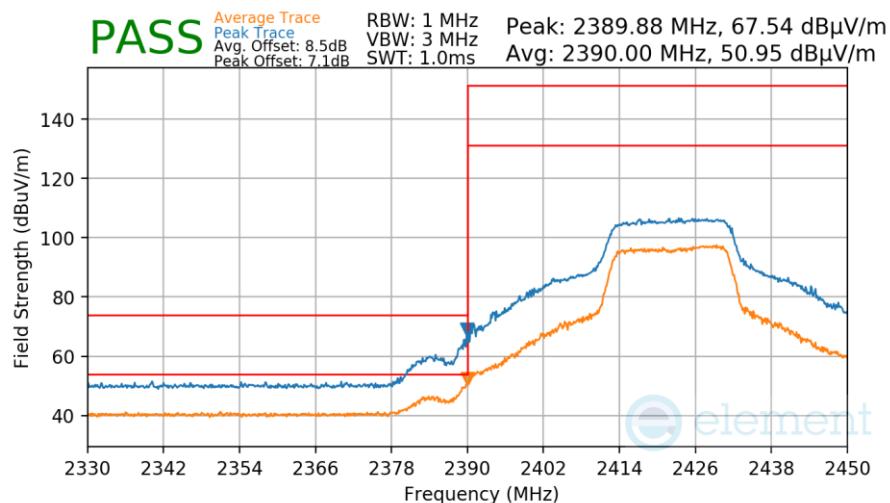
Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2417MHz
 Channel: 2



Plot 7-75. Radiated Restricted Lower Band Edge Measurement

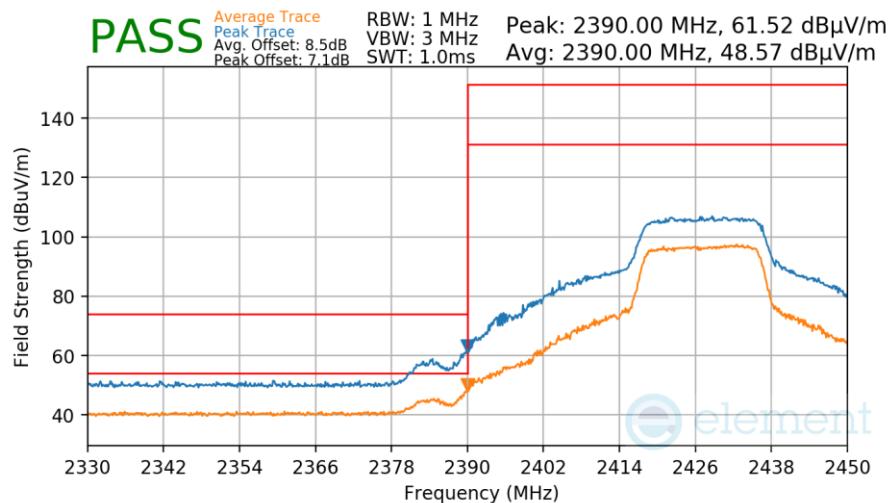
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 65 of 79

Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2422MHz
 Channel: 3



Plot 7-76. Radiated Restricted Lower Band Edge Measurement

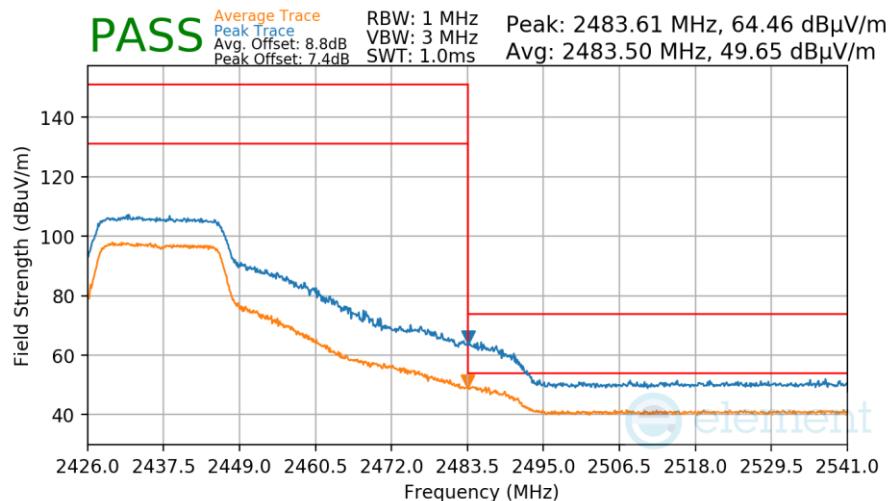
Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2427MHz
 Channel: 4



Plot 7-77. Radiated Restricted Lower Band Edge Measurement

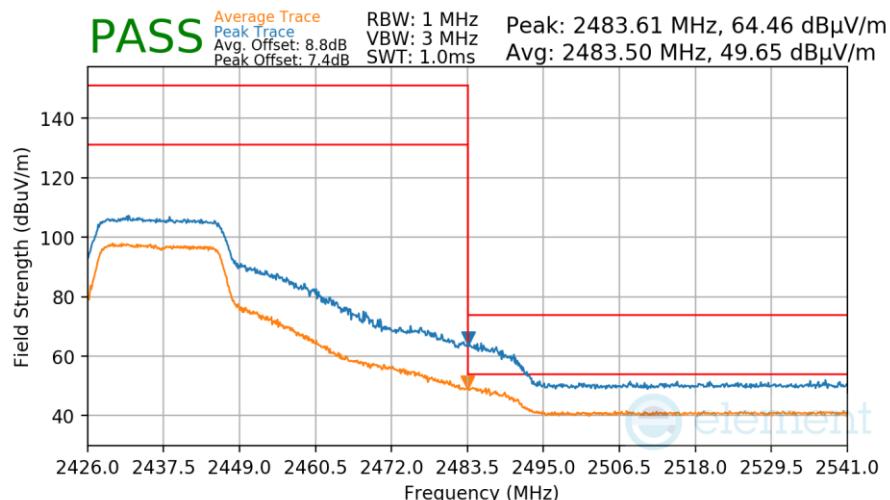
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 66 of 79

Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2437MHz
 Channel: 6



Plot 7-78. Radiated Restricted Upper Band Edge Measurement

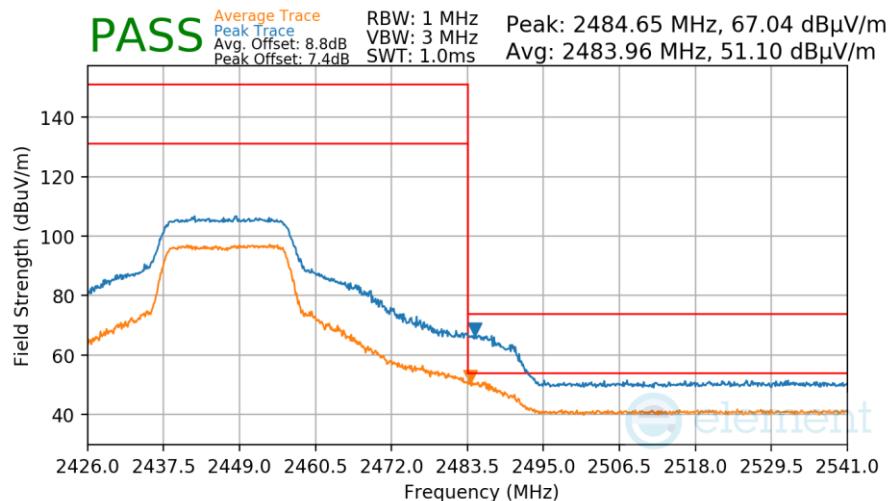
Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2442MHz
 Channel: 7



Plot 7-79. Radiated Restricted Upper Band Edge Measurement

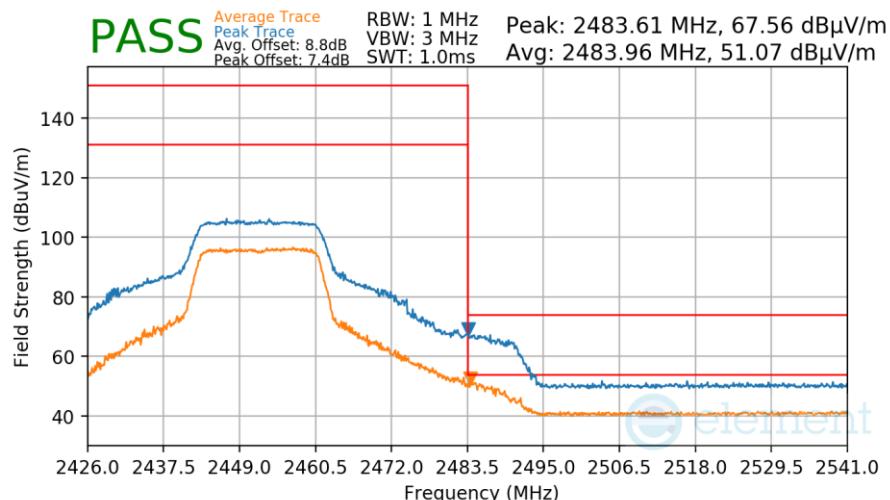
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1C2503270033-06.BCG	Test Dates: 6/10/2025 - 07/22/2025	EUT Type: Watch	Page 67 of 79

Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2447MHz
 Channel: 8



Plot 7-80. Radiated Restricted Upper Band Edge Measurement

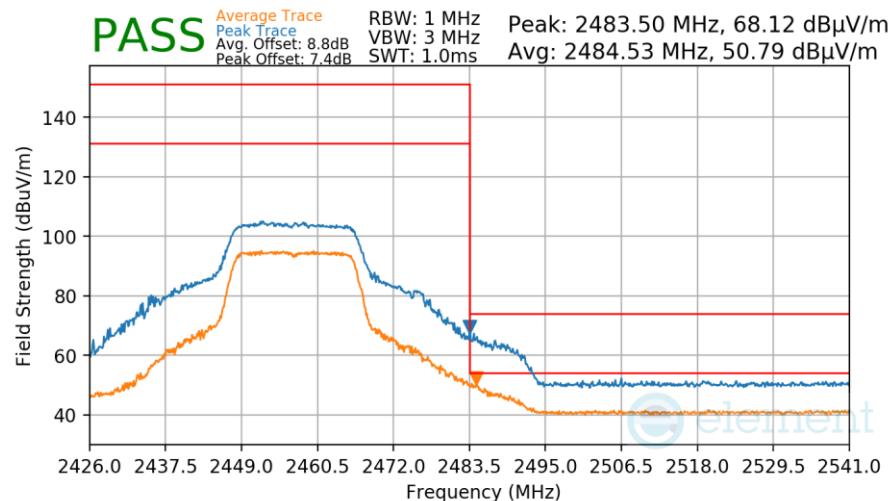
Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2452MHz
 Channel: 9



Plot 7-81. Radiated Restricted Upper Band Edge Measurement

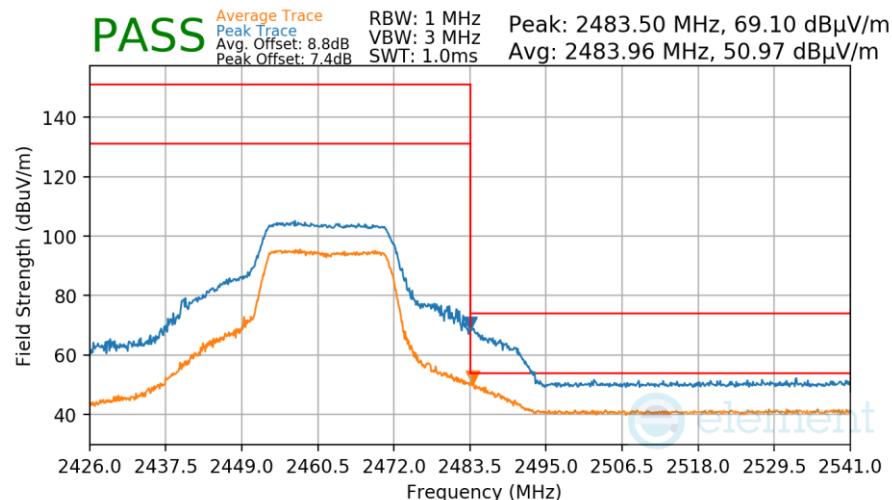
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2457MHz
 Channel: 10



Plot 7-82. Radiated Restricted Upper Band Edge Measurement

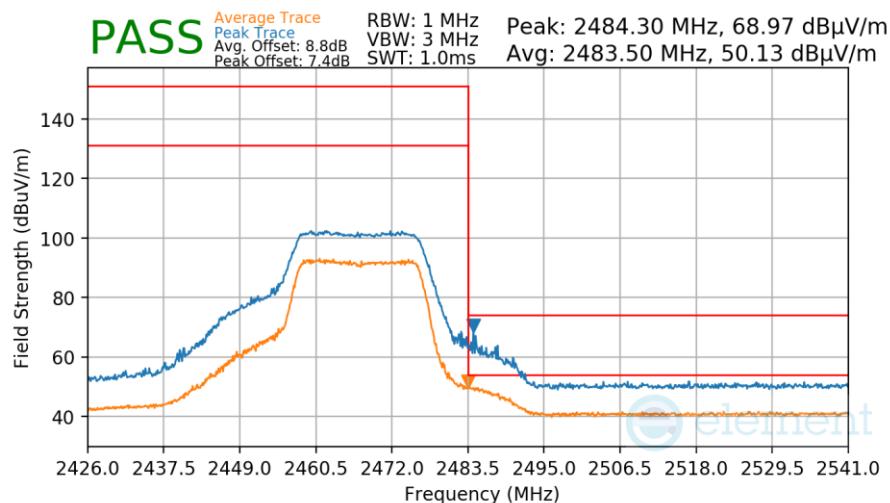
Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2462MHz
 Channel: 11



Plot 7-83. Radiated Restricted Upper Band Edge Measurement

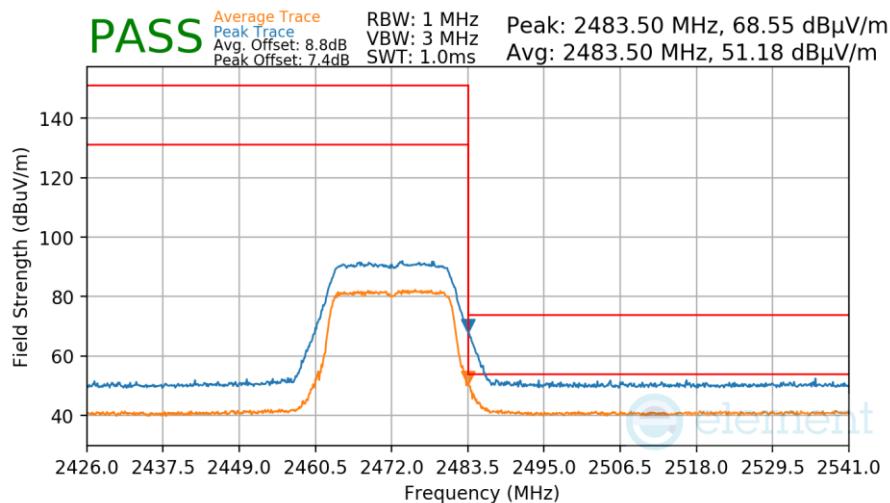
FCC ID: BCG-A3337 IC: 579C-A3337	 element	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2467MHz
 Channel: 12



Plot 7-84. Radiated Restricted Upper Band Edge Measurement

Mode: 802.11n
 Data Rate: MCS7
 Distance of Measurements: 3 Meters
 Operating Frequency: 2472MHz
 Channel: 13



Plot 7-85. Radiated Restricted Upper Band Edge Measurement

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7.8 Radiated Spurious Emissions – Below 1GHz

§15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 7 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-10 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/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 7-10. 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

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Test Setup

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

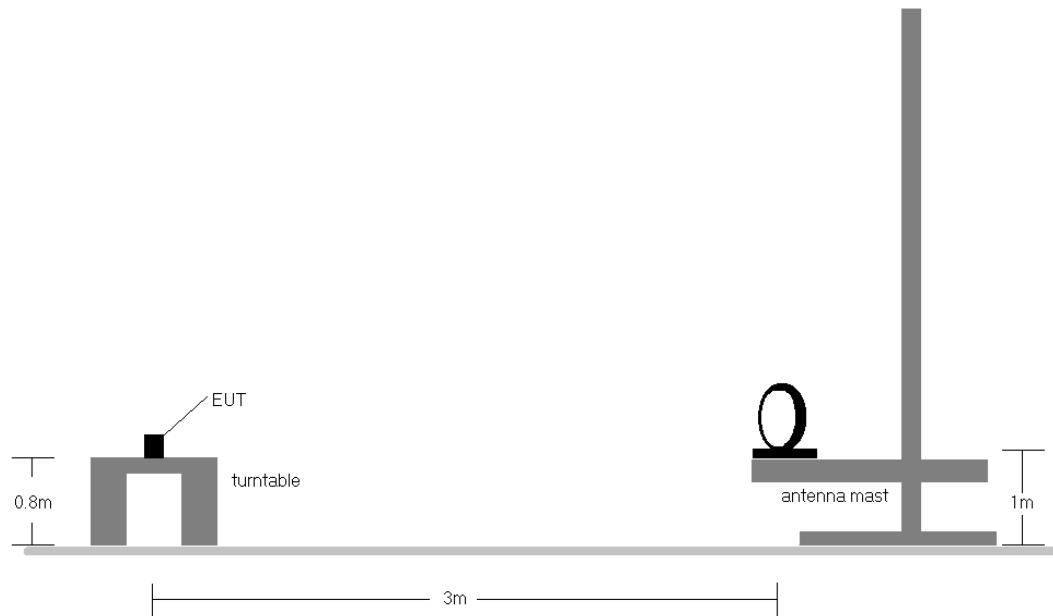


Figure 7-7. Radiated Test Setup < 30MHz

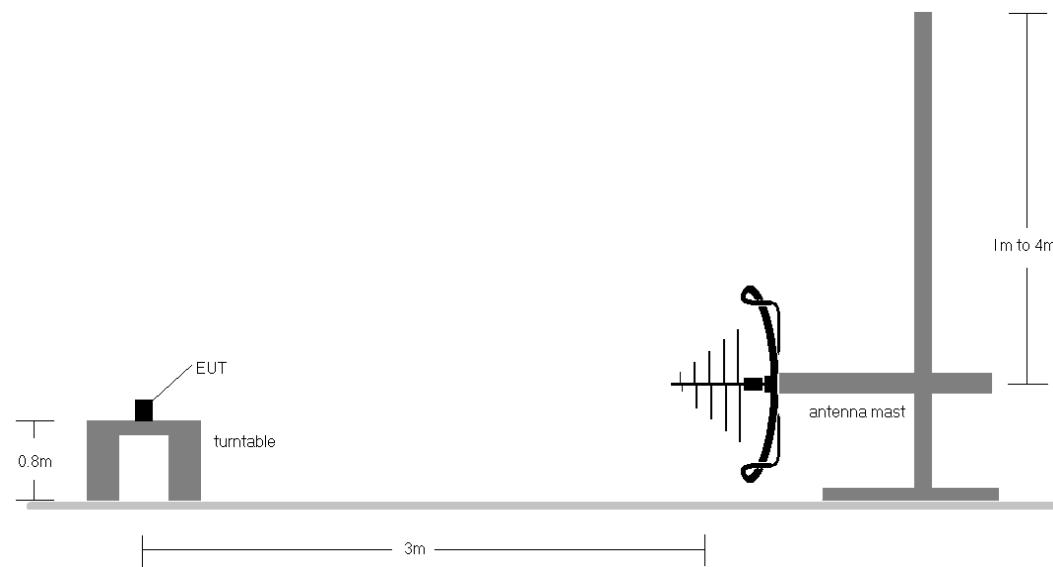


Figure 7-8. Radiated Test Setup < 1GHz

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Test Notes

1. All emissions lying in restricted bands specified in §15.205 and RSS-Gen(8.10) are below the limit shown in Table 7-10.
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. Both configurations below were investigated, and the worst case has been reported.
 - a. EUT powered by AC/DC adaptor via USB-C cable with magnetic charger
 - b. EUT powered by host PC via USB-C cable with magnetic charger
9. 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.
10. The unit was tested with all possible modes and only the highest emission is reported.

Sample Calculations

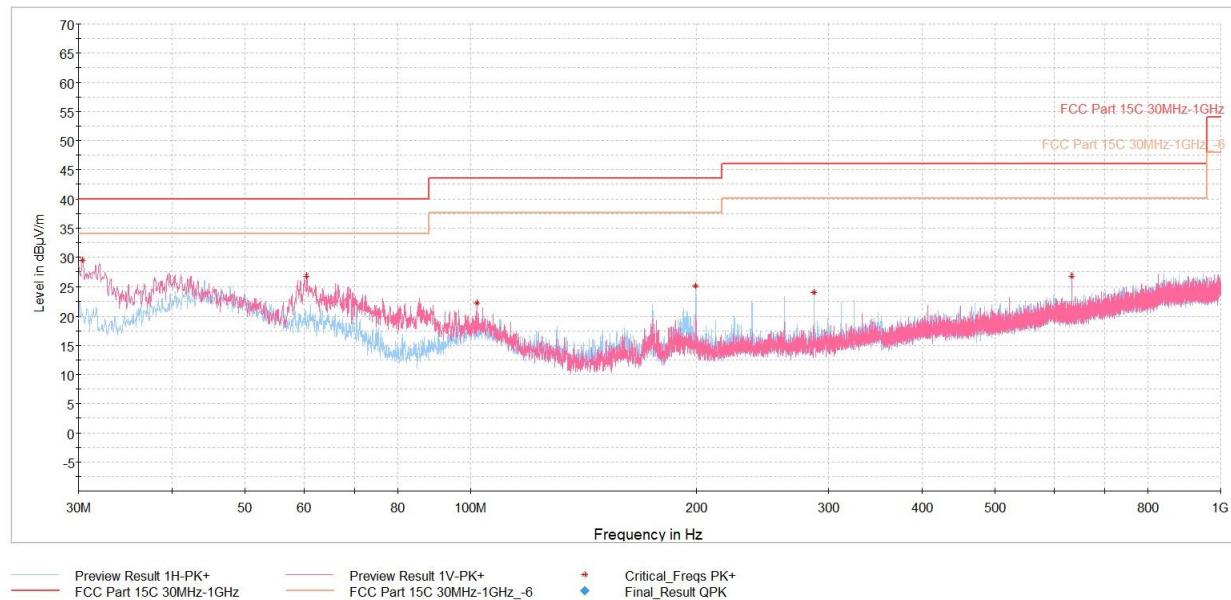
Determining Spurious Emissions Levels

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

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Radiated Spurious Emissions Measurements (Below 1GHz)

§15.209; RSS-Gen [8.9]



Plot 7-86. Radiated Spurious Emissions below 1GHz 11b Ch.6, with AC/DC Adapter via USB-C cable with magnetic 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]
30.34	MaxPeak	V	100	323	-58.30	-19.28	29.42	40.00	-10.58
60.51	MaxPeak	V	100	302	-62.95	-17.29	26.76	40.00	-13.24
102.12	MaxPeak	V	100	0	-66.74	-17.93	22.33	43.52	-21.19
199.36	MaxPeak	H	100	269	-63.83	-17.95	25.22	43.52	-18.30
286.71	MaxPeak	H	100	163	-67.13	-15.83	24.04	46.02	-21.98
633.53	MaxPeak	V	100	358	-71.53	-8.68	26.79	46.02	-19.23

Table 7-11. Radiated Spurious Emissions below 1GHz 11b Ch.6, with AC/DC Adapter via USB-C cable with magnetic charger

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7.9 AC Line-Conducted Emissions Measurement

§15.207; RSS-Gen [8.8]

Test Overview and Limit

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

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

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

Table 7-12. Conducted Limits

*Decreases with the logarithm of the frequency.

Test Procedures Used

ANSI C63.10-2020, Subclause 6.2

Test Settings

Quasi-Peak Measurements

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

Average Measurements

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

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Test Setup

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

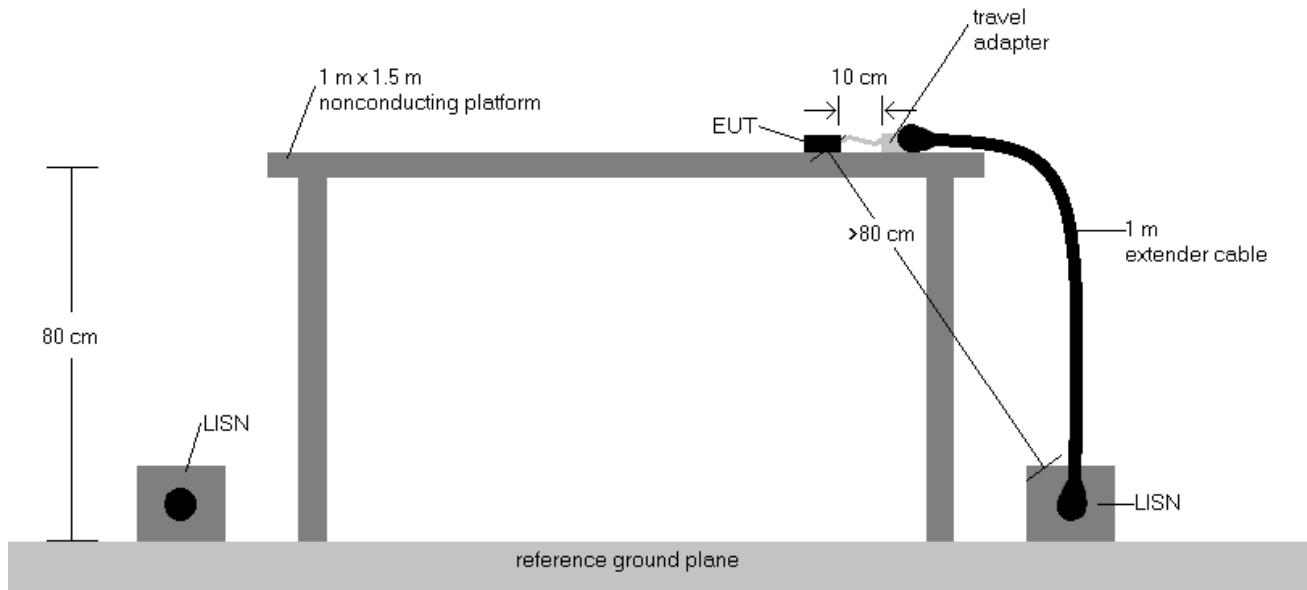
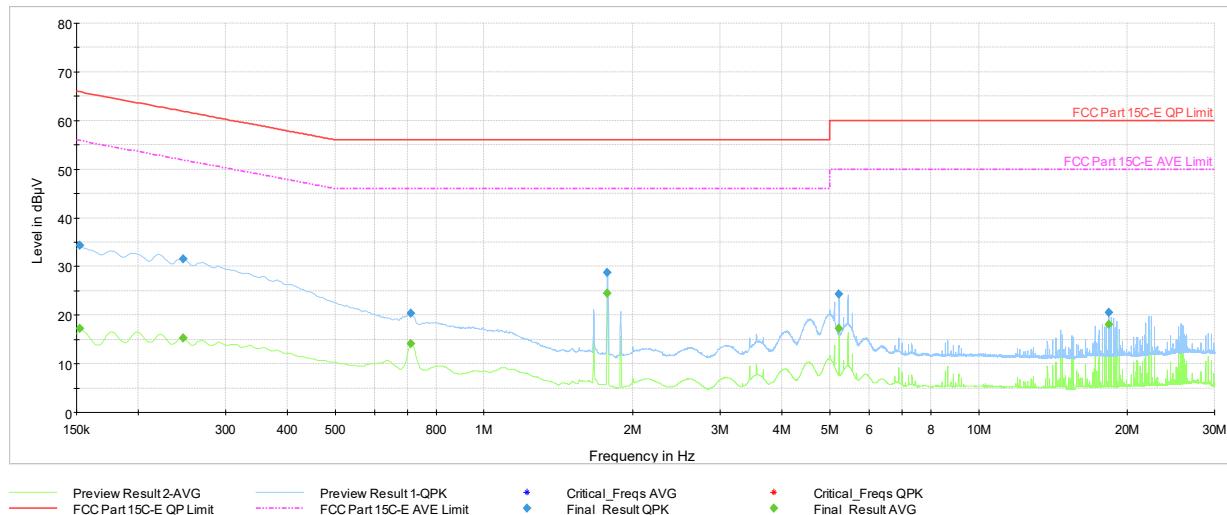


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

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

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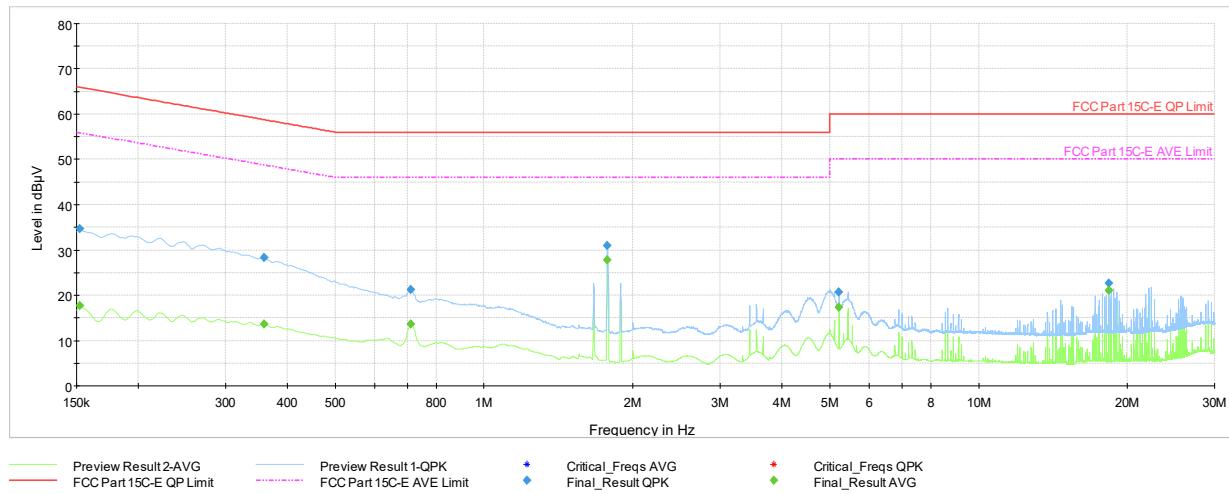


Plot 7-87. AC Line Conducted Plot 802.11b - Ch.6 (L1, with AC/DC adaptor via USB-C cable with magnetic charger)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	17.27	55.88	-38.61	L1	GND
0.152	FINAL	34.3	—	65.88	-31.54	L1	GND
0.247	FINAL	—	15.31	51.87	-36.56	L1	GND
0.247	FINAL	31.6	—	61.87	-30.29	L1	GND
0.710	FINAL	—	14.09	46.00	-31.91	L1	GND
0.710	FINAL	20.3	—	56.00	-35.71	L1	GND
1.777	FINAL	28.8	—	56.00	-27.24	L1	GND
1.777	FINAL	—	24.43	46.00	-21.57	L1	GND
5.222	FINAL	24.3	—	60.00	-35.72	L1	GND
5.222	FINAL	—	17.30	50.00	-32.70	L1	GND
18.332	FINAL	—	18.11	50.00	-31.89	L1	GND
18.332	FINAL	20.5	—	60.00	-39.49	L1	GND

Table 7-13. AC Line Conducted Data 802.11b - Ch.6 (L1, with AC/DC adaptor via USB-C cable with magnetic charger)

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Plot 7-88. AC Line Conducted Plot 802.11b - Ch.6 (N, with AC/DC adaptor via USB-C cable with magnetic charger)

Frequency [MHz]	Process State	QuasiPeak [dB μ V]	Average [dB μ V]	Limit [dB μ V]	Margin [dB]	Line	PE
0.152	FINAL	—	17.77	55.88	-38.10	N	GND
0.152	FINAL	34.6	—	65.88	-31.26	N	GND
0.359	FINAL	—	13.61	48.75	-35.14	N	GND
0.359	FINAL	28.3	—	58.75	-30.48	N	GND
0.710	FINAL	—	13.59	46.00	-32.41	N	GND
0.710	FINAL	21.2	—	56.00	-34.81	N	GND
1.777	FINAL	31.0	—	56.00	-25.03	N	GND
1.777	FINAL	—	27.83	46.00	-18.17	N	GND
5.222	FINAL	20.8	—	60.00	-39.22	N	GND
5.222	FINAL	—	17.31	50.00	-32.69	N	GND
18.332	FINAL	—	21.12	50.00	-28.88	N	GND
18.332	FINAL	22.7	—	60.00	-37.26	N	GND

Table 7-14. AC Line Conducted Data 802.11b - Ch.6 (N, with AC/DC adaptor via USB-C cable with magnetic charger)

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8.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Apple Watch FCC ID: BCG-A3337, IC: 579C-A3337** is in compliance with Part 15 Subpart C (15.247) of the FCC Rules and RSS-247 of the Innovation, Science and Economic Development Canada Rules.

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