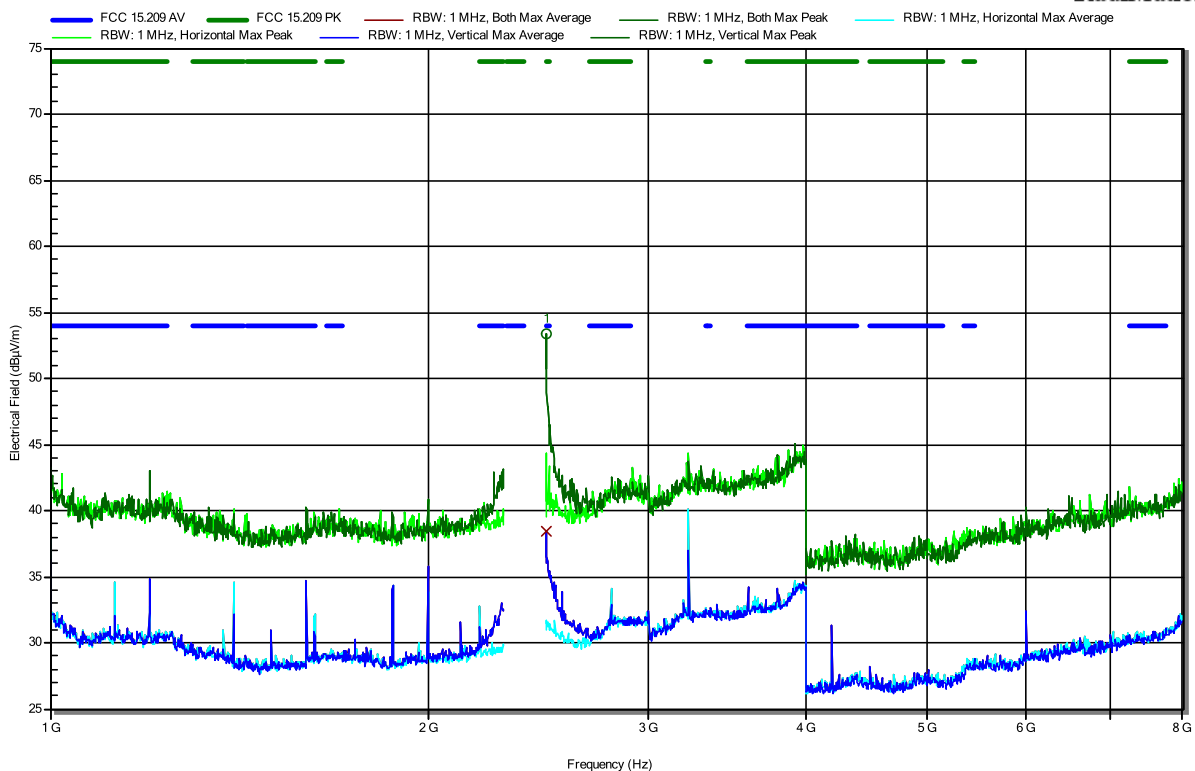


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2422 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

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RadiMation



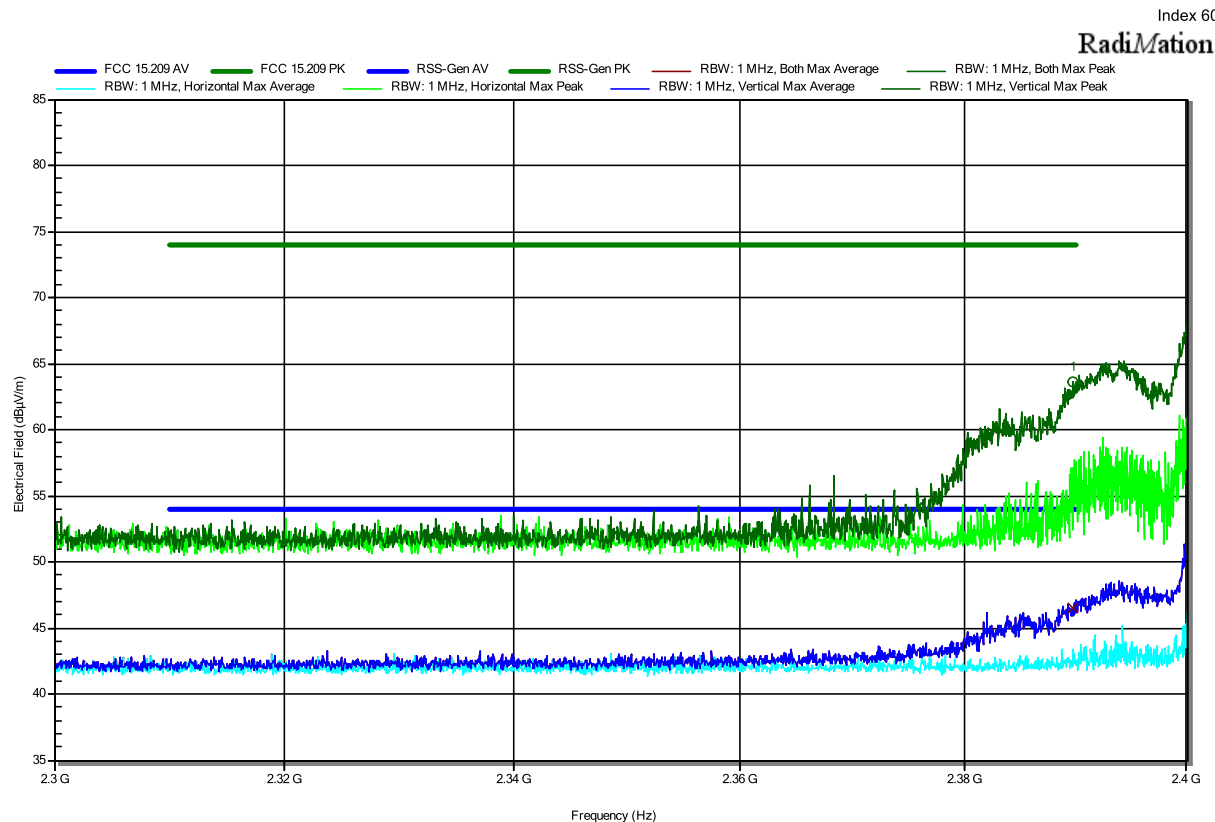
Frequency 2.4836 GHz	Peak 53.33 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.67 dB	Peak Status Pass	Polarization Vertical
Frequency 2.4836 GHz	Average 38.41 dBµV/m	Average Limit 54 dBµV/m	Average Difference -15.59 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2422 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01
 Note: lower bandedge



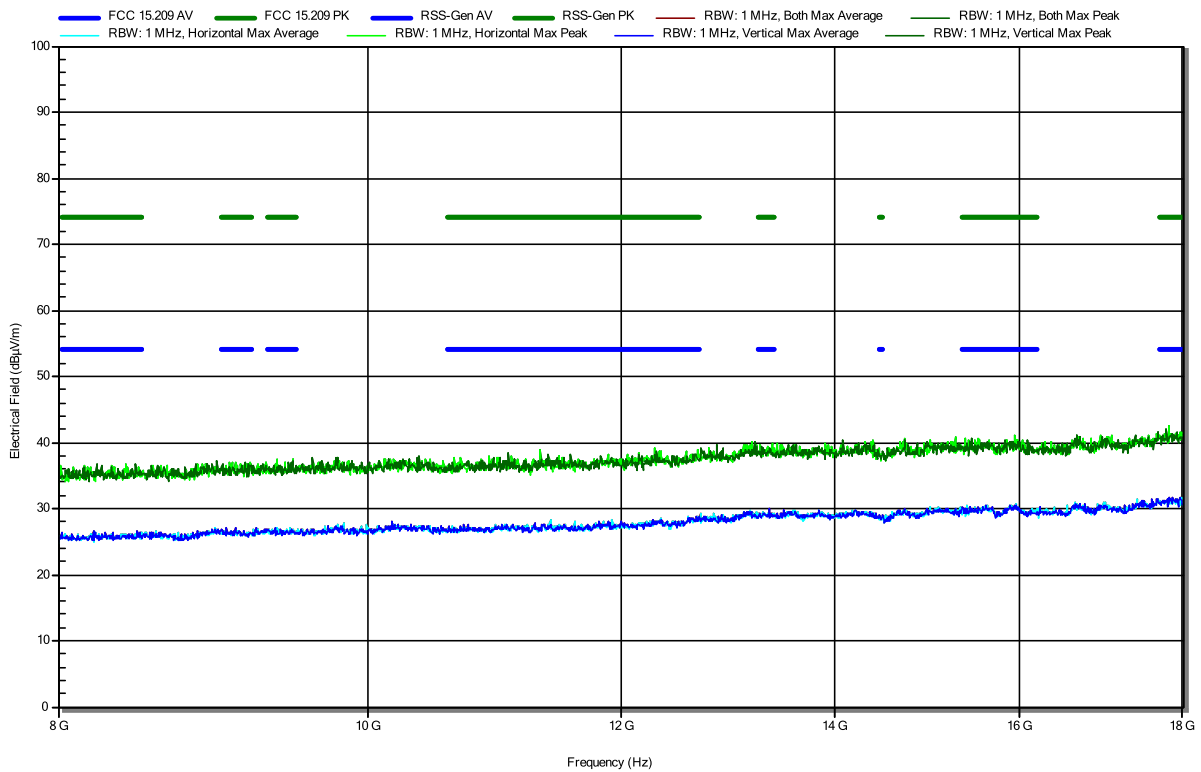
Frequency 2.3897 GHz	Peak 63.67 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -10.33 dB	Peak Status Pass	Polarization Vertical
Frequency 2.3897 GHz	Average 46.56 dBµV/m	Average Limit 54 dBµV/m	Average Difference -7.44 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2422 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

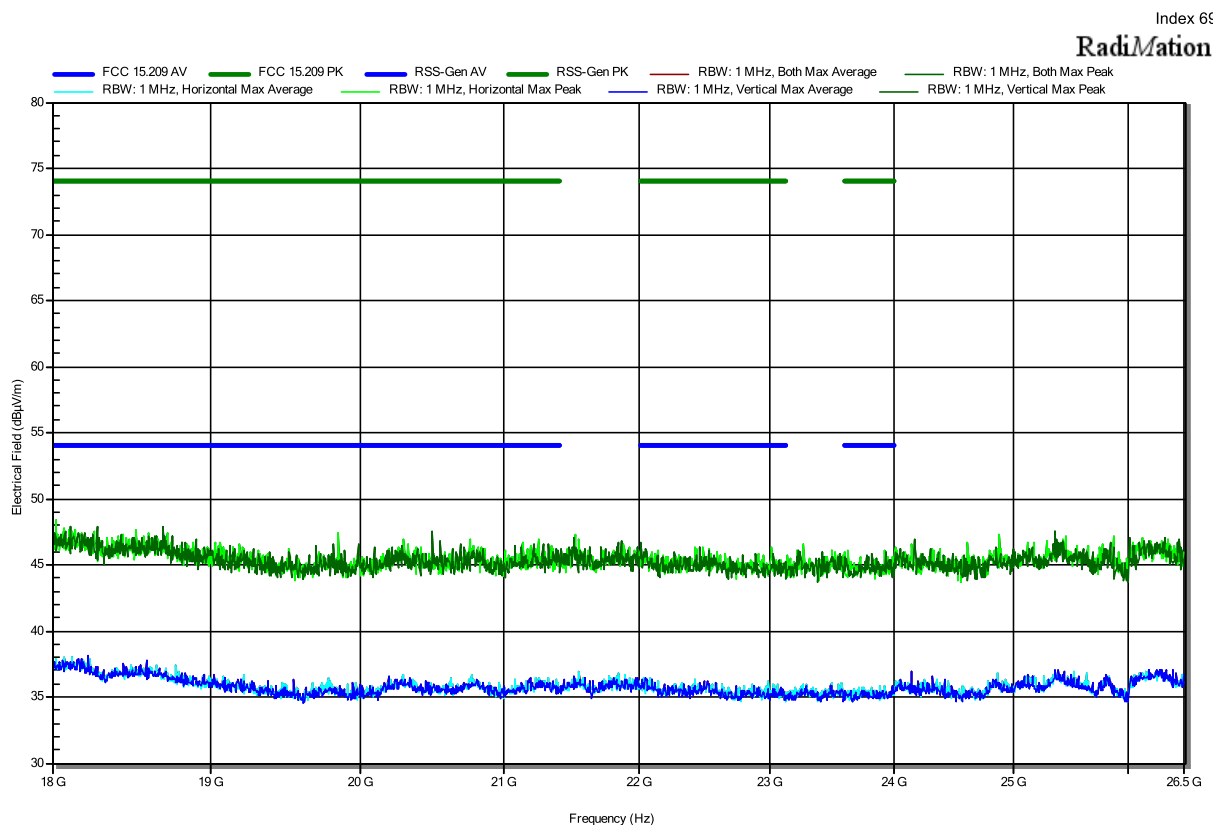
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RadiMation



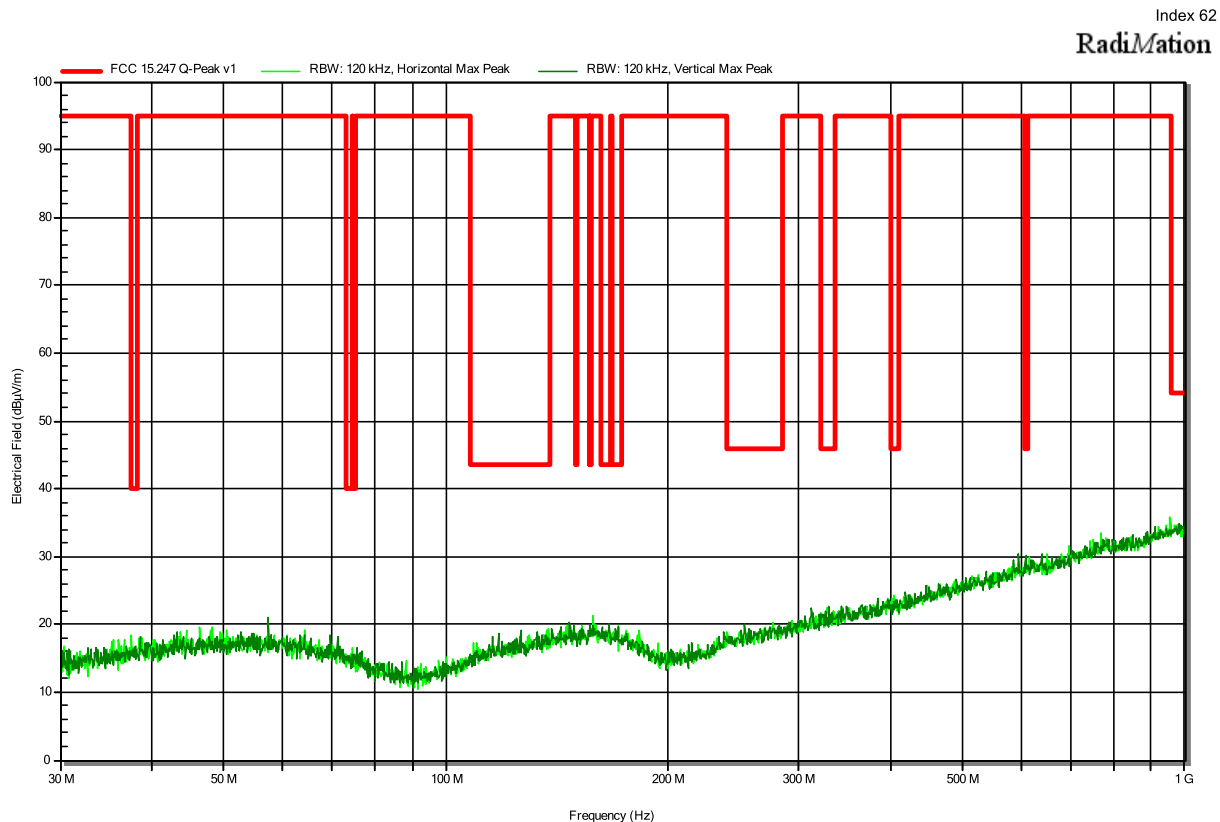
Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2422 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01
 Note:



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE40,RU-484,Index 65
 Test Date: 2024-02-29
 Note:

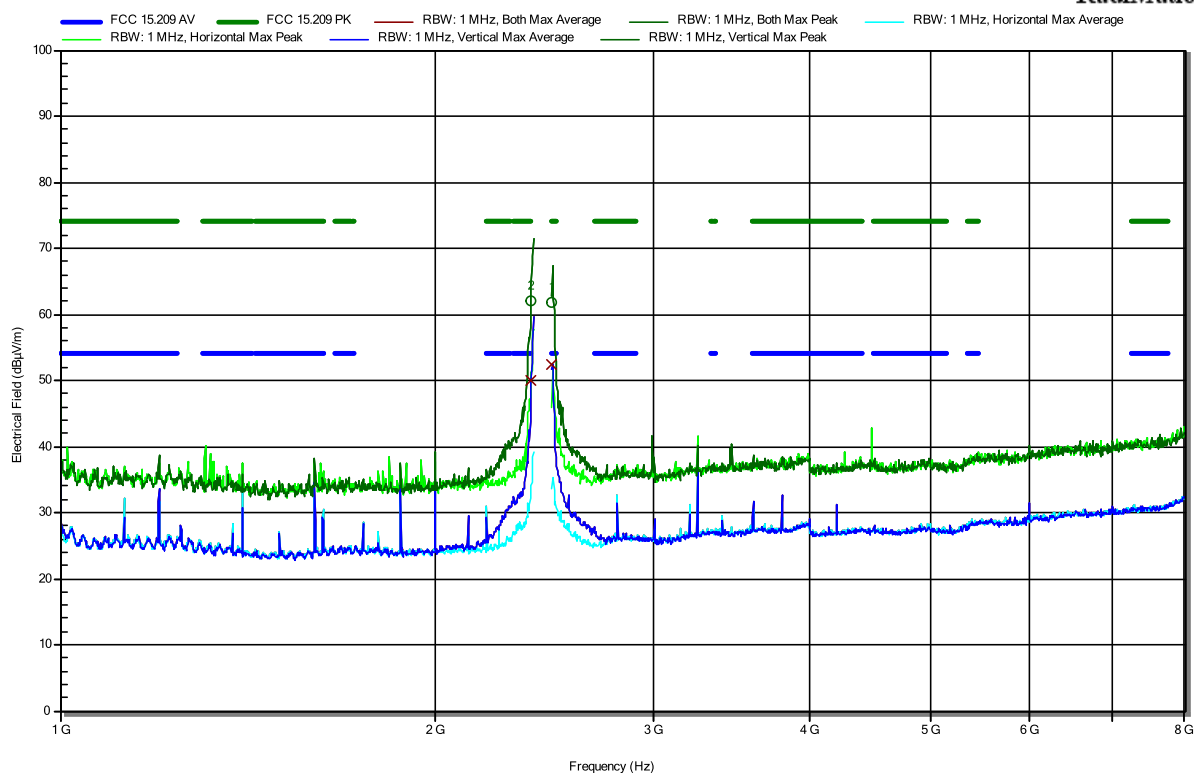


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

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RadiMation



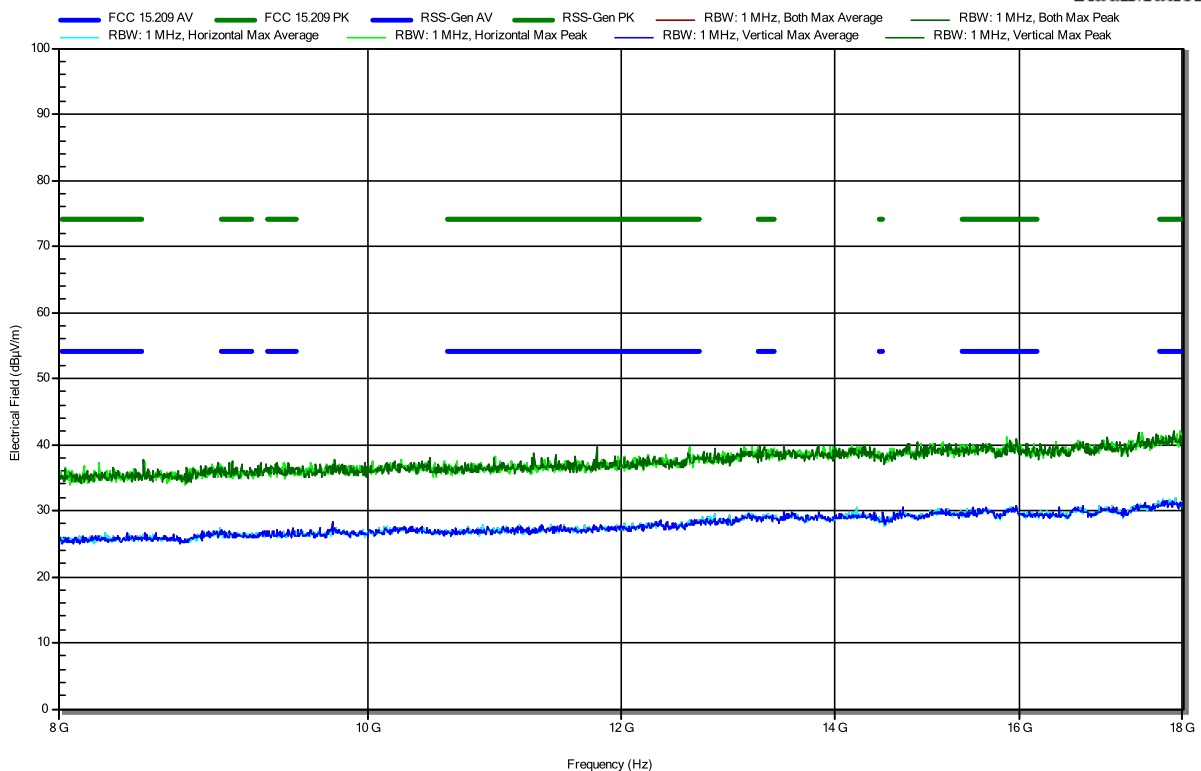
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3898 GHz	62.06 dBμV/m	74 dBμV/m	-11.94 dB	Pass	Vertical
2.4837 GHz	61.82 dBμV/m	74 dBμV/m	-12.18 dB	Pass	Vertical
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3898 GHz	49.9 dBμV/m	54 dBμV/m	-4.1 dB	Pass	Vertical
2.4837 GHz	52.3 dBμV/m	54 dBμV/m	-1.7 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

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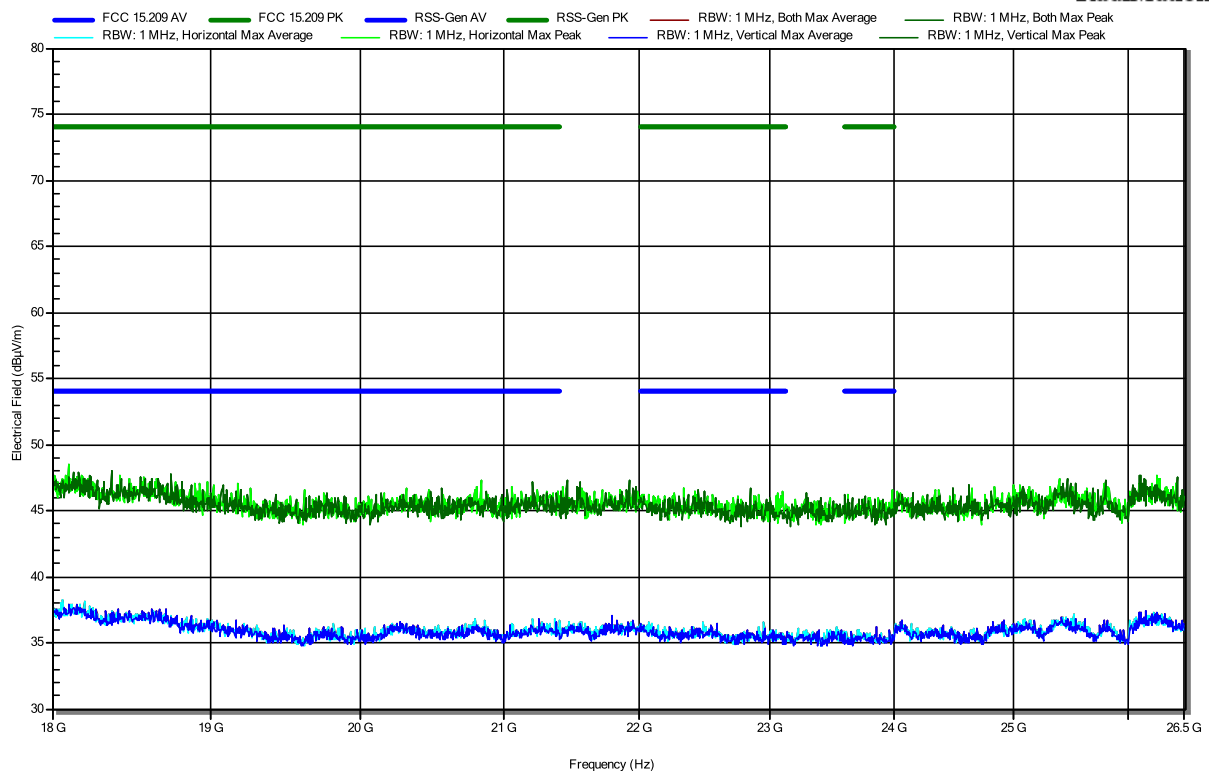


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

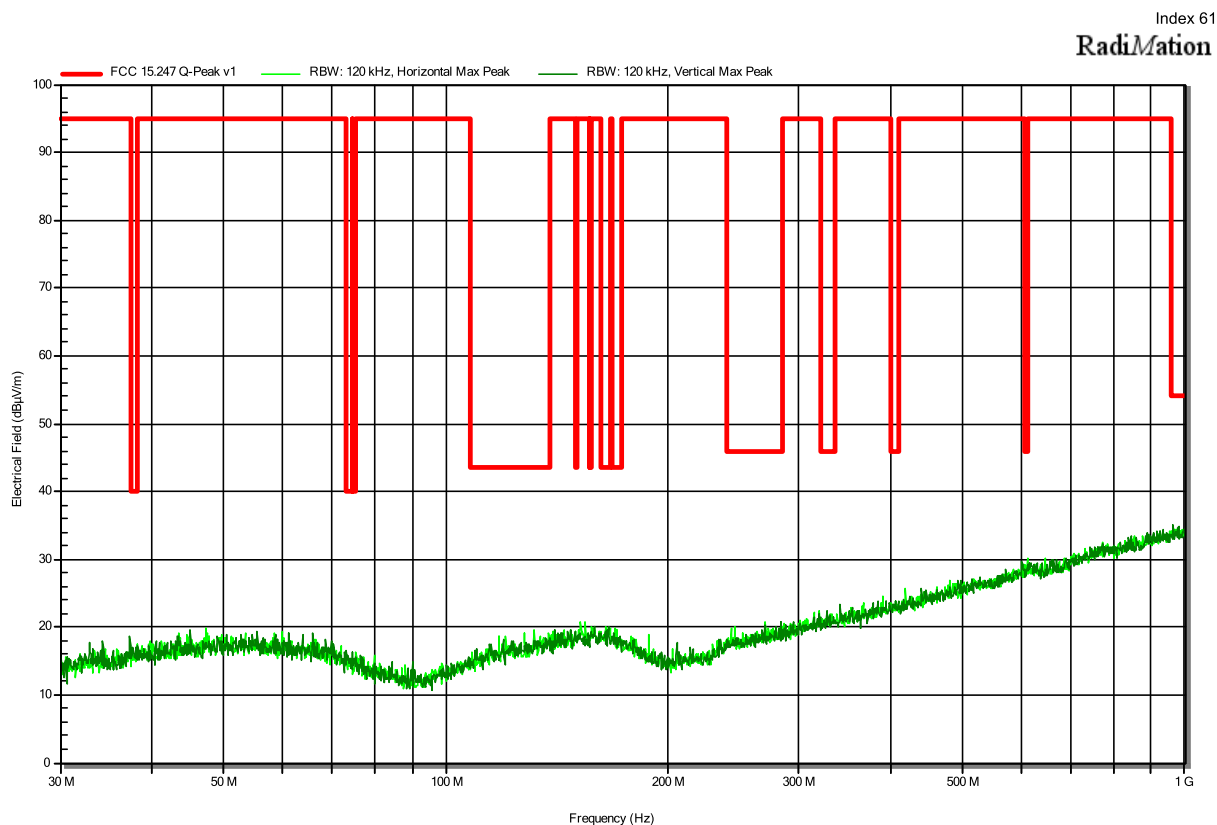
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Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2452 MHz, HE40, RU-484, Index 65
 Test Date: 2024-02-29

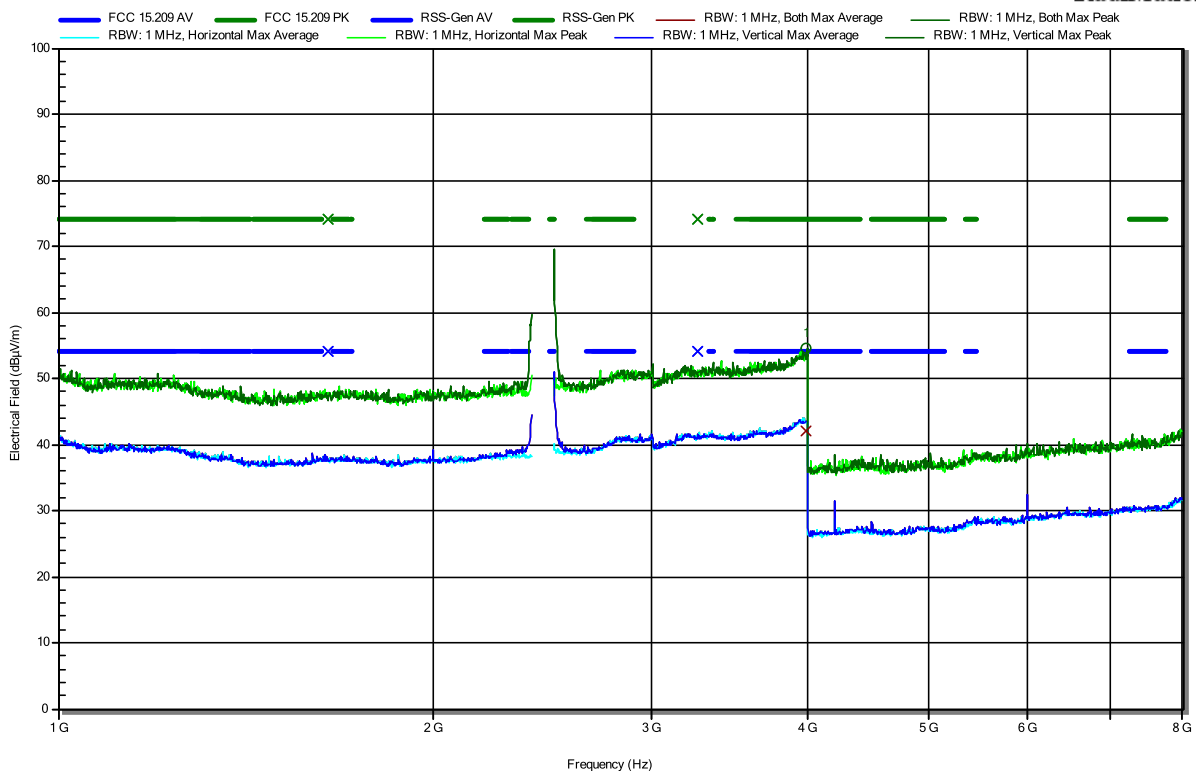


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2452 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

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Frequency 3.99 GHz	Peak 54.59 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -19.41 dB	Peak Status Pass	Polarization Vertical
Frequency 3.99 GHz	Average 42.04 dBµV/m	Average Limit 54 dBµV/m	Average Difference -11.96 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

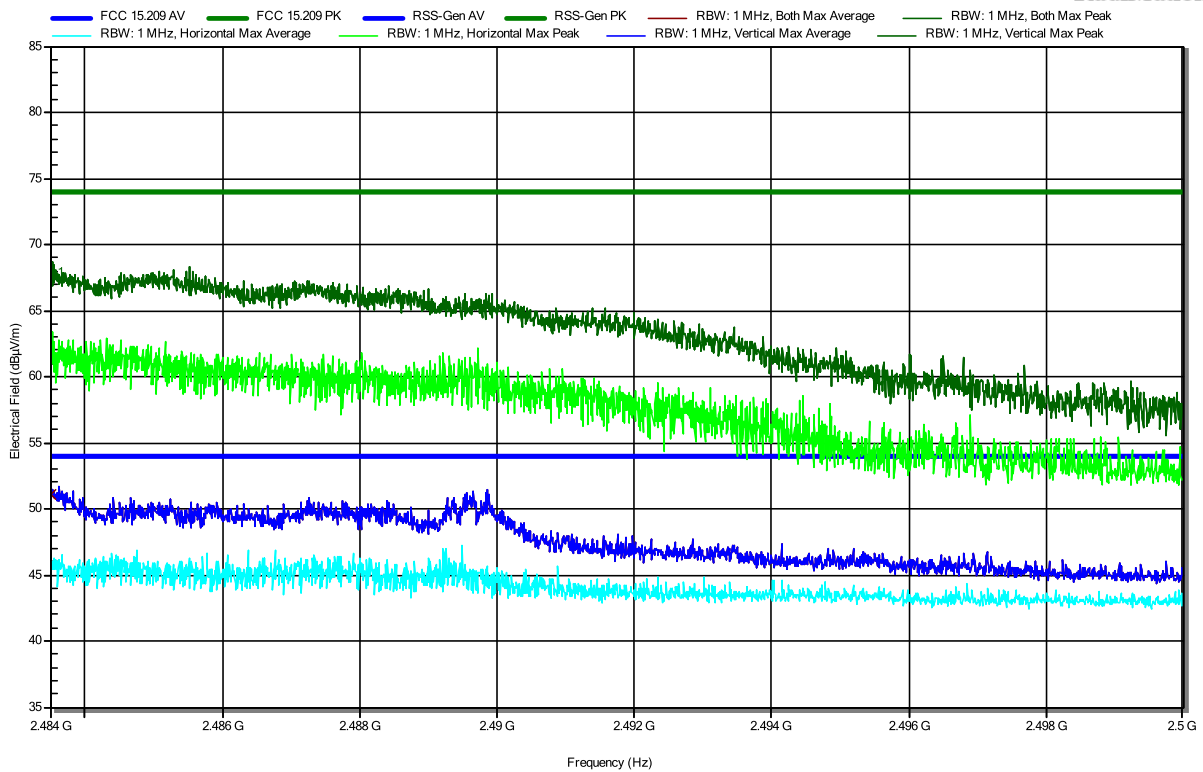
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2452 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01
 Note: upper bandedge

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Frequency 2.4835 GHz	Peak 67.81 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -6.19 dB	Peak Status Pass	Polarization Vertical
Frequency 2.4835 GHz	Average 51.06 dBµV/m	Average Limit 54 dBµV/m	Average Difference -2.94 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

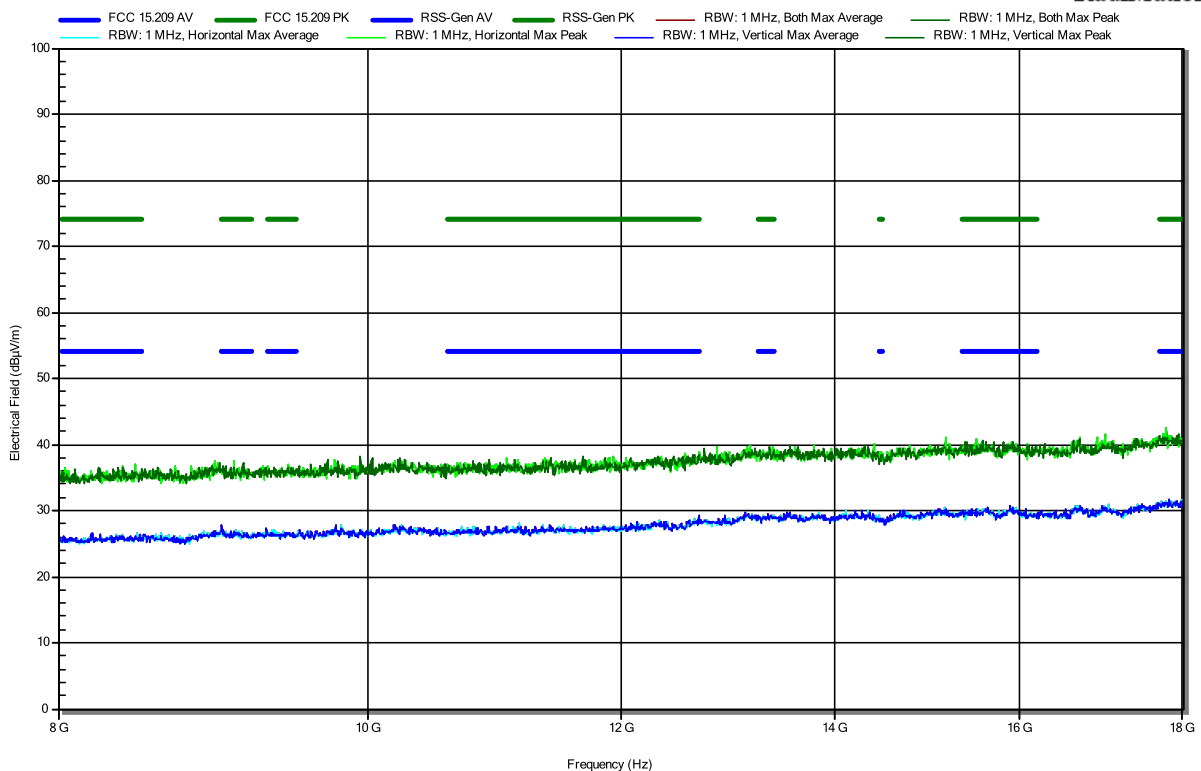
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2452 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

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RadiMation

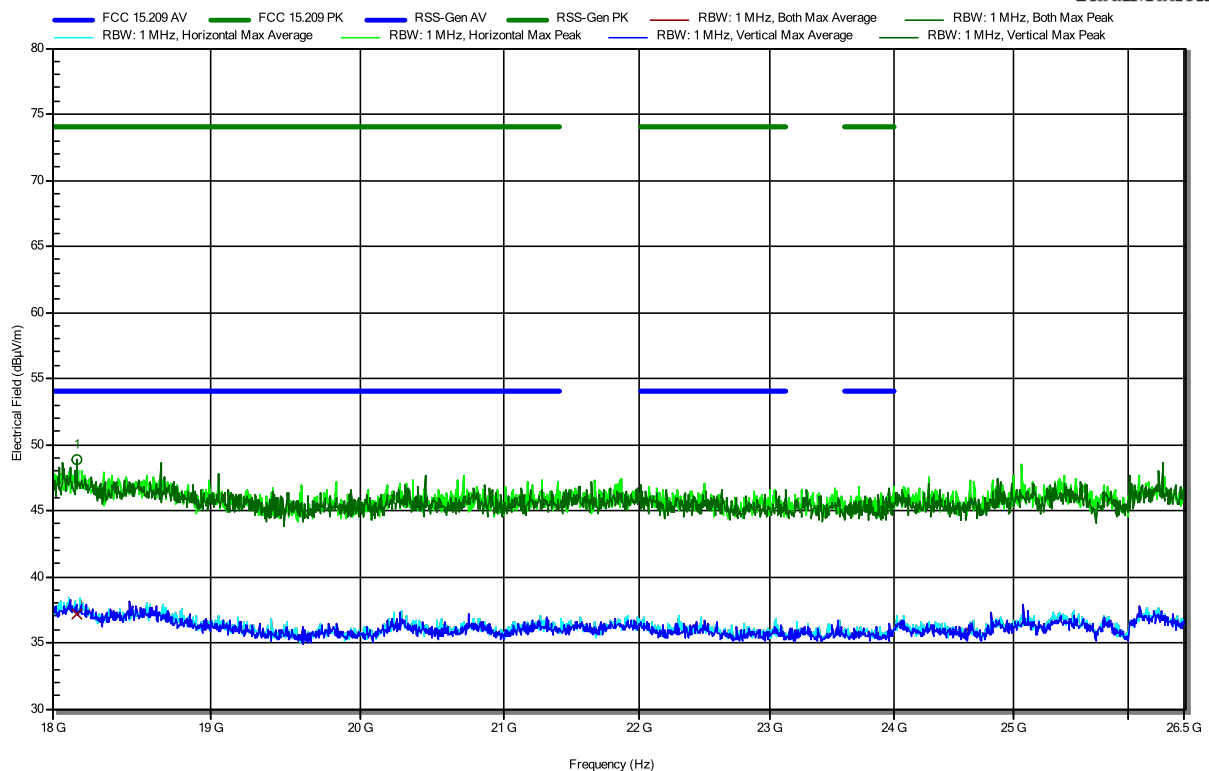


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2452 MHz, HE40,RU-484,Index 65
 Test Date: 2024-03-01

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Frequency 18.15 GHz	Peak 48.85 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -25.15 dB	Peak Status Pass	Polarization Vertical
Frequency 18.15 GHz	Average 37.2 dBμV/m	Average Limit 54 dBμV/m	Average Difference -16.8 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

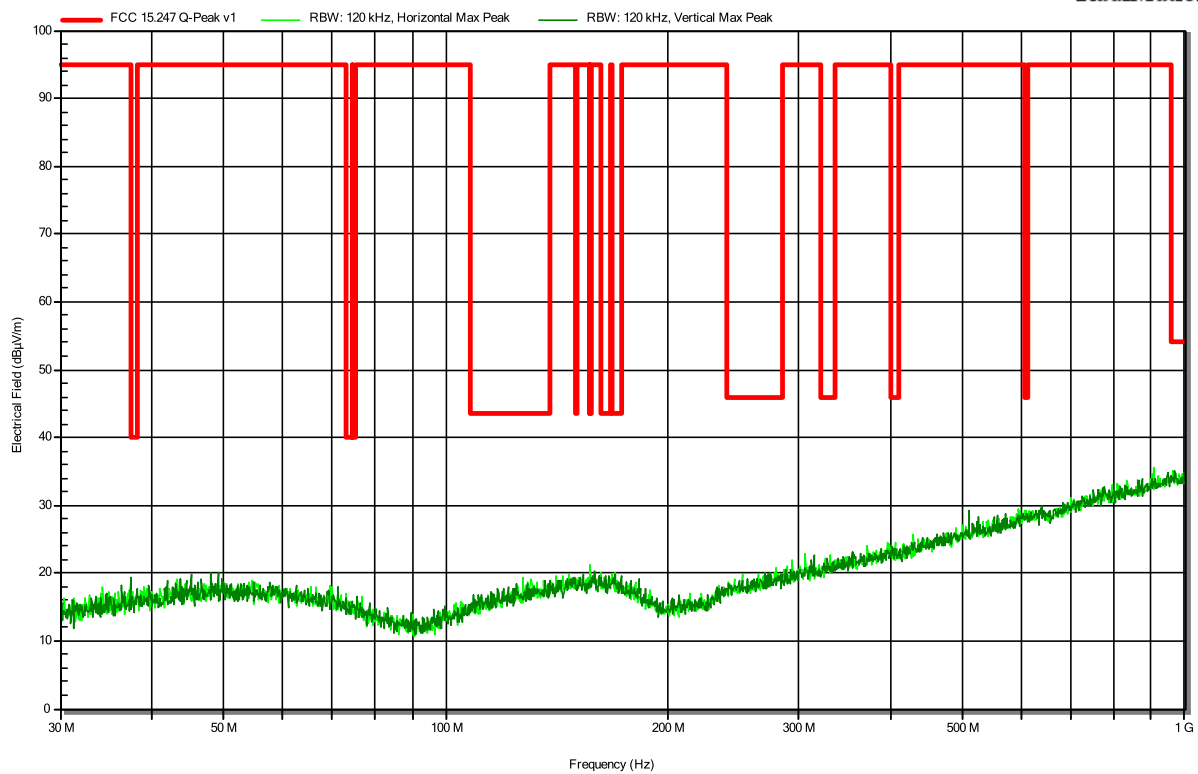
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26,Index 0
 Test Date: 2024-02-29

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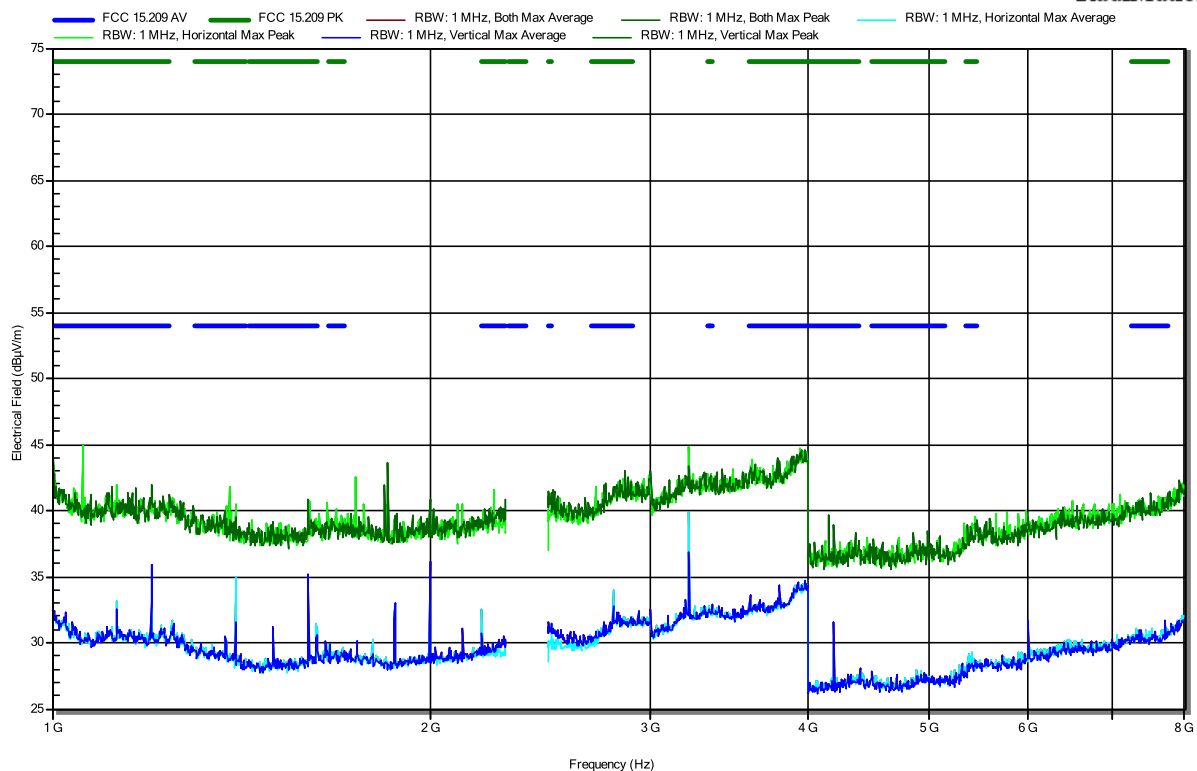


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26,Index 0
 Test Date: 2024-03-01

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RadiMation

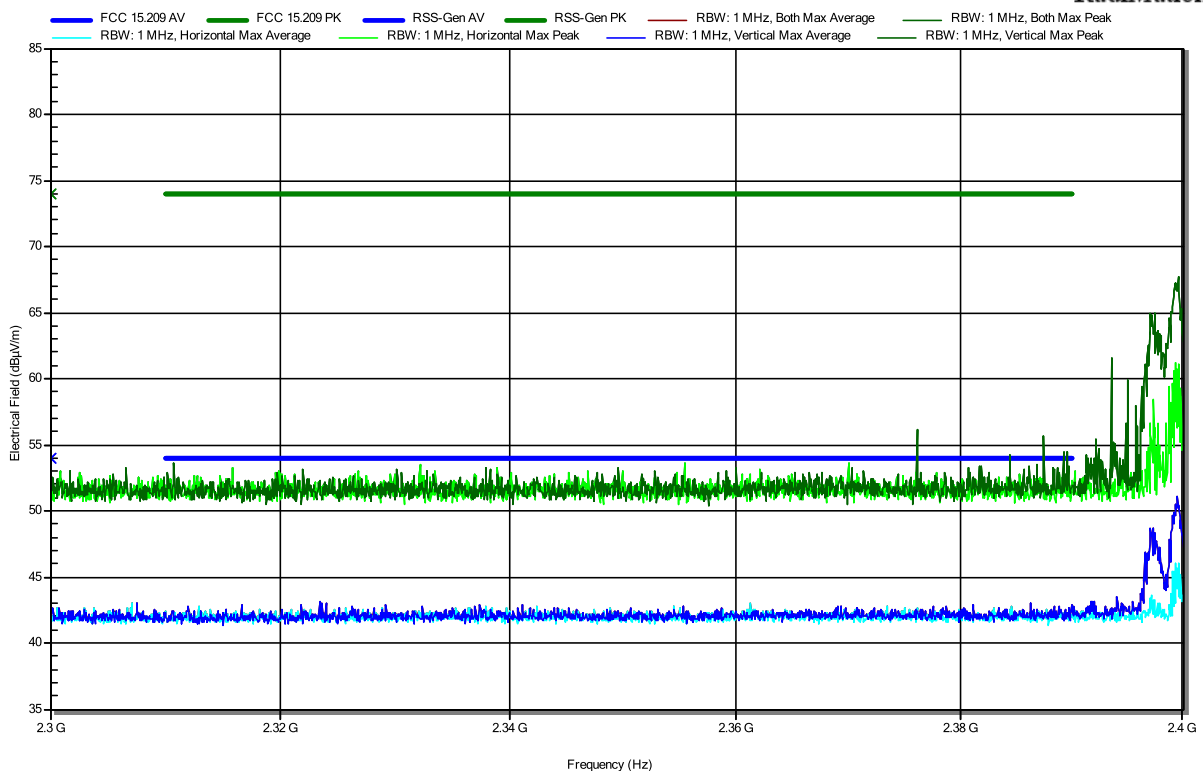


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26,Index 0
 Test Date: 2024-03-01
 Note: lower bandedge

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RadiMation

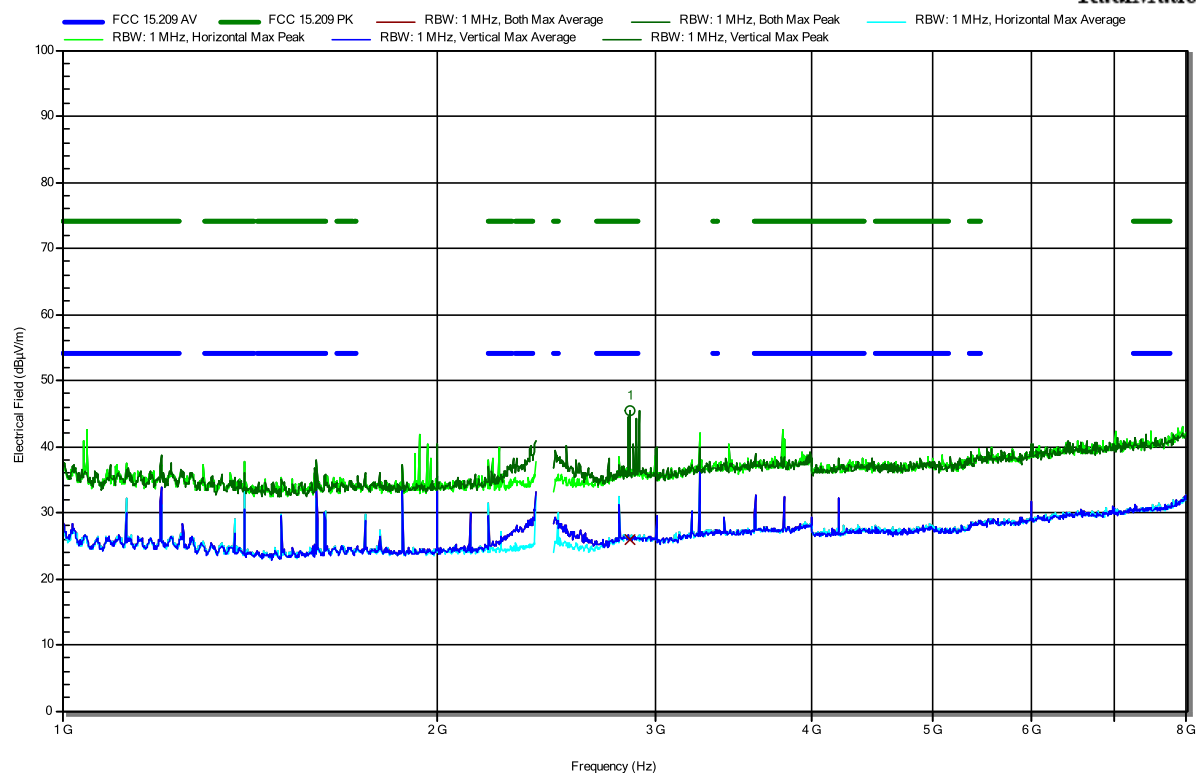


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE20,RU-26,Index 3
 Test Date: 2024-03-01

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RadiMation



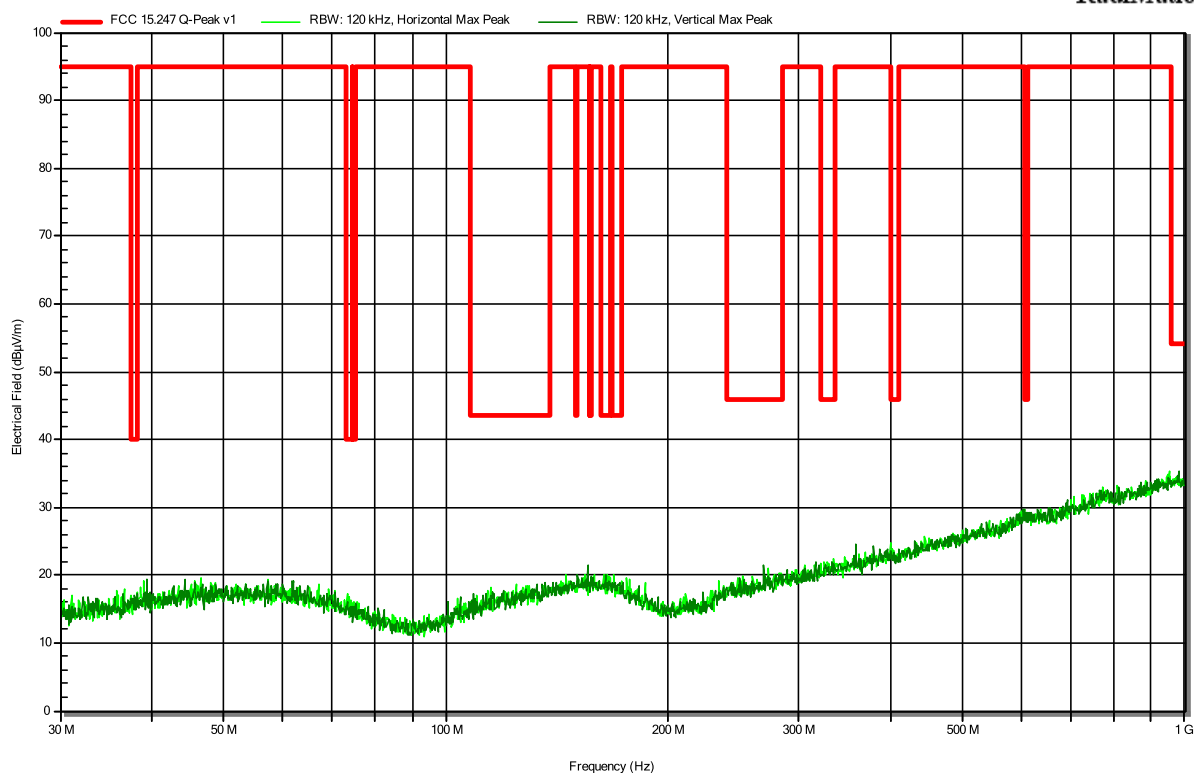
Frequency 2.8577 GHz	Peak 45.31 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -28.69 dB	Peak Status Pass	Polarization Vertical
Frequency 2.8577 GHz	Average 25.92 dBµV/m	Average Limit 54 dBµV/m	Average Difference -28.08 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26,Index 8
 Test Date: 2024-02-29

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RadiMation

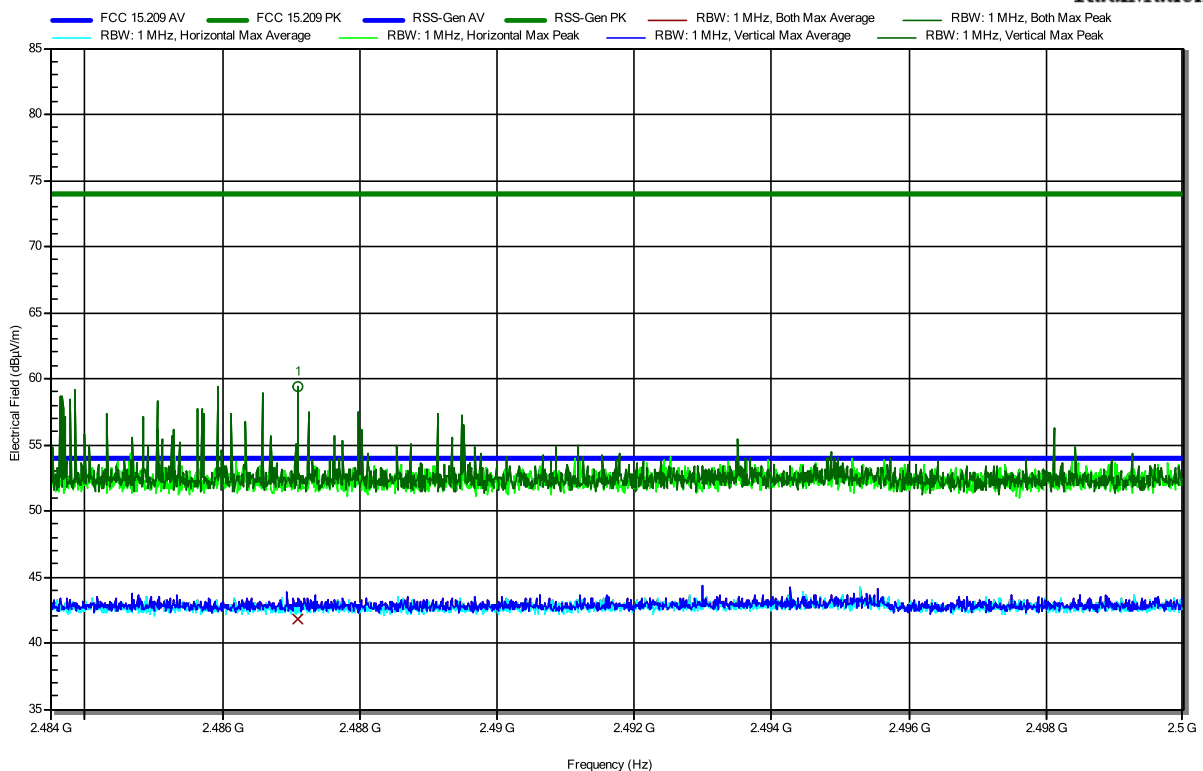


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26,Index 8
 Test Date: 2024-03-01
 Note: upper bandedge

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Frequency 2.4871 GHz	Peak 59.43 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -14.57 dB	Peak Status Pass	Polarization Vertical
Frequency 2.4871 GHz	Average 41.86 dBµV/m	Average Limit 54 dBµV/m	Average Difference -12.14 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

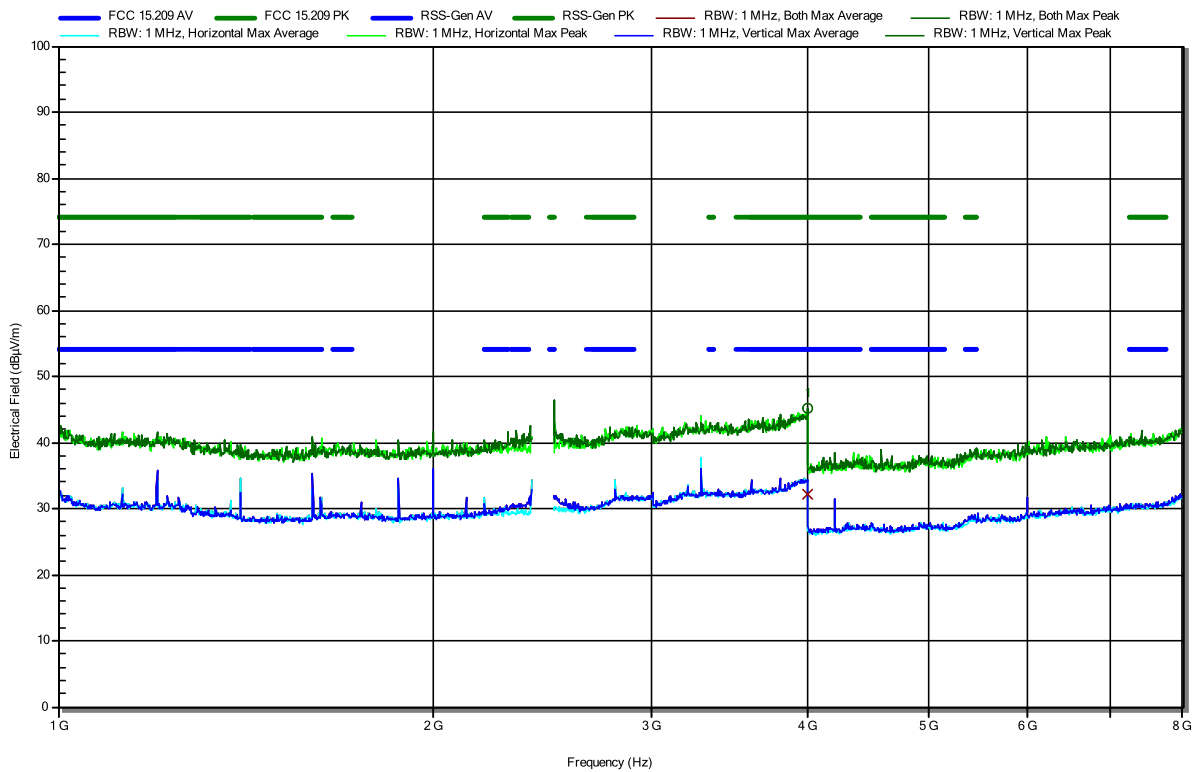
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
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 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26,Index 8
 Test Date: 2024-03-01

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RadiMation



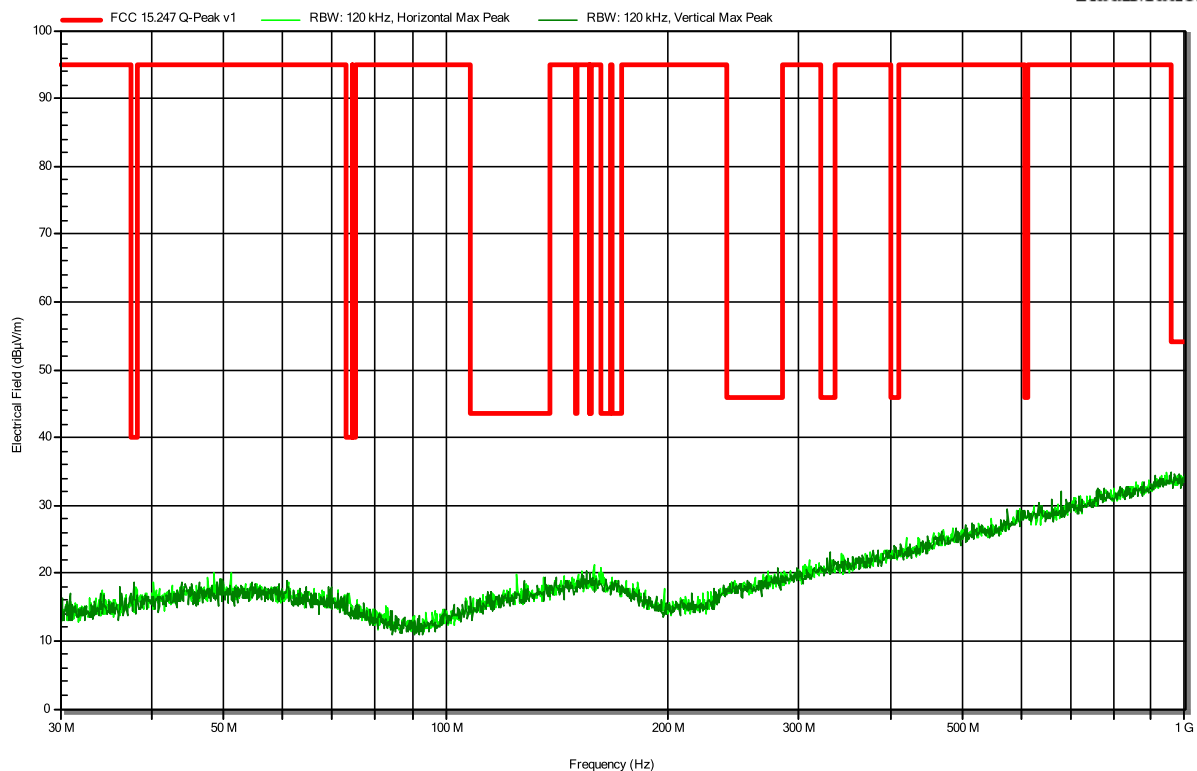
Frequency 3.997 GHz	Peak 45.09 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -28.91 dB	Peak Status Pass	Polarization Vertical
Frequency 3.997 GHz	Average 32.08 dBµV/m	Average Limit 54 dBµV/m	Average Difference -21.92 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-29

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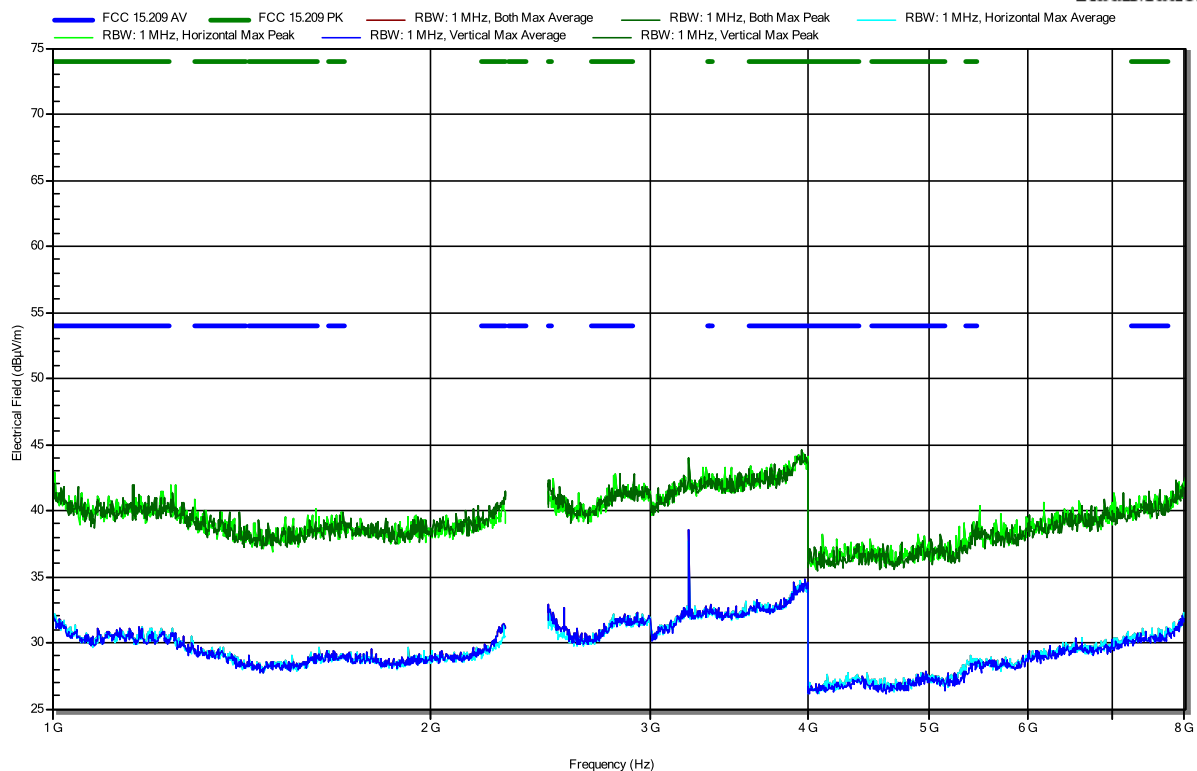


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-28

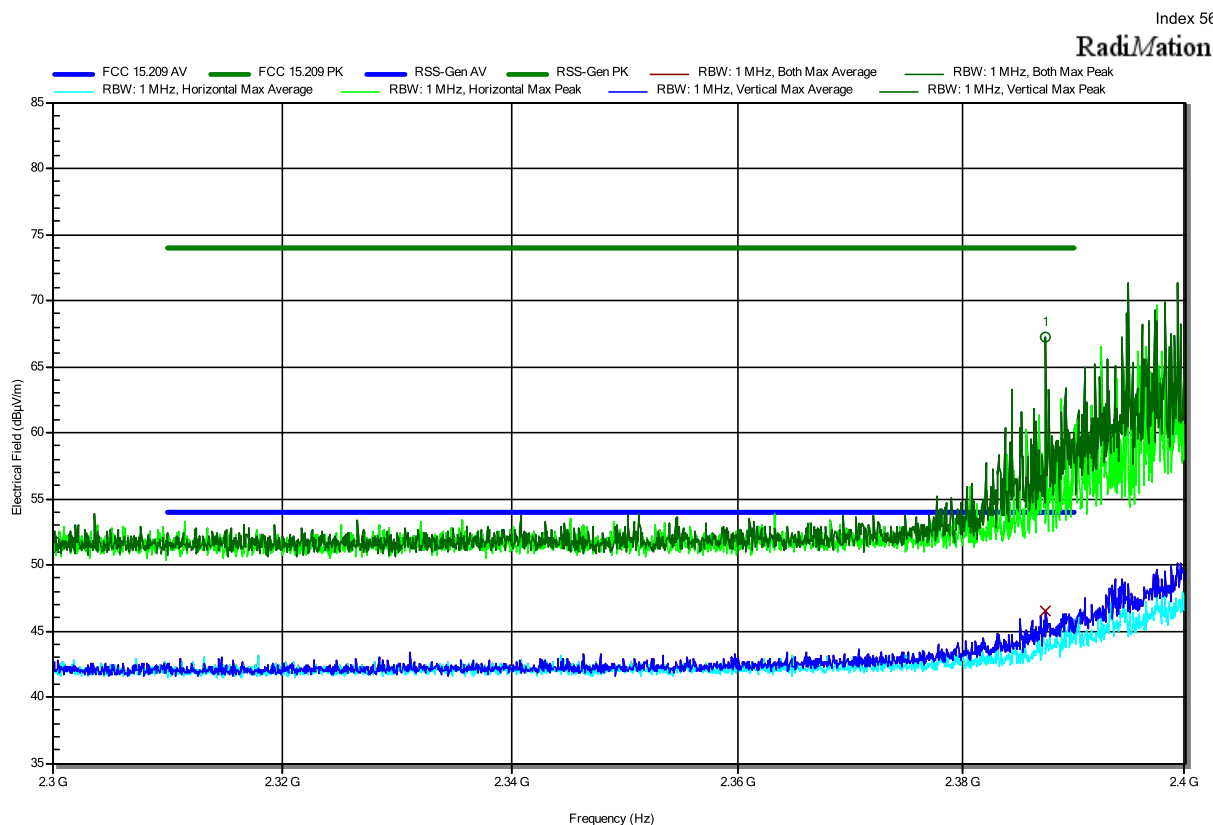
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Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-28
 Note: lower bandedge



Frequency 2.3875 GHz	Peak 67.2 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -6.8 dB	Peak Status Pass	Polarization Vertical
Frequency 2.3875 GHz	Average 46.5 dBµV/m	Average Limit 54 dBµV/m	Average Difference -7.5 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

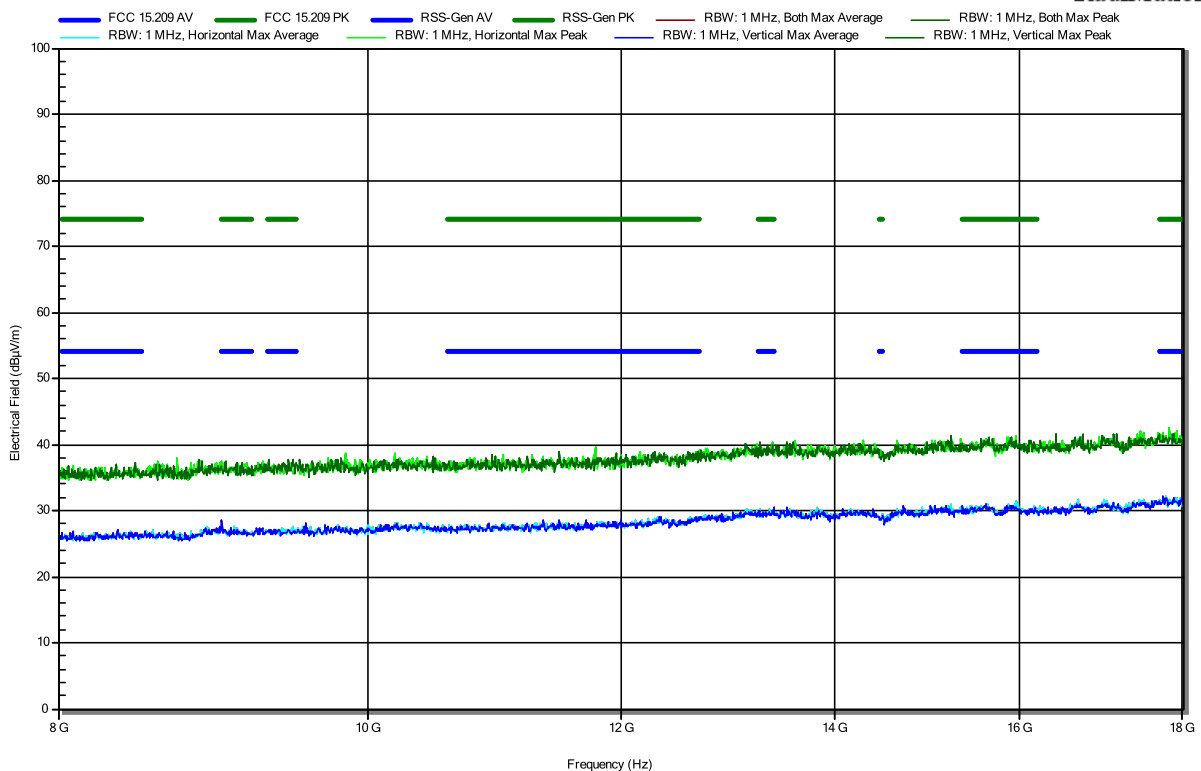
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-29

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RadiMation

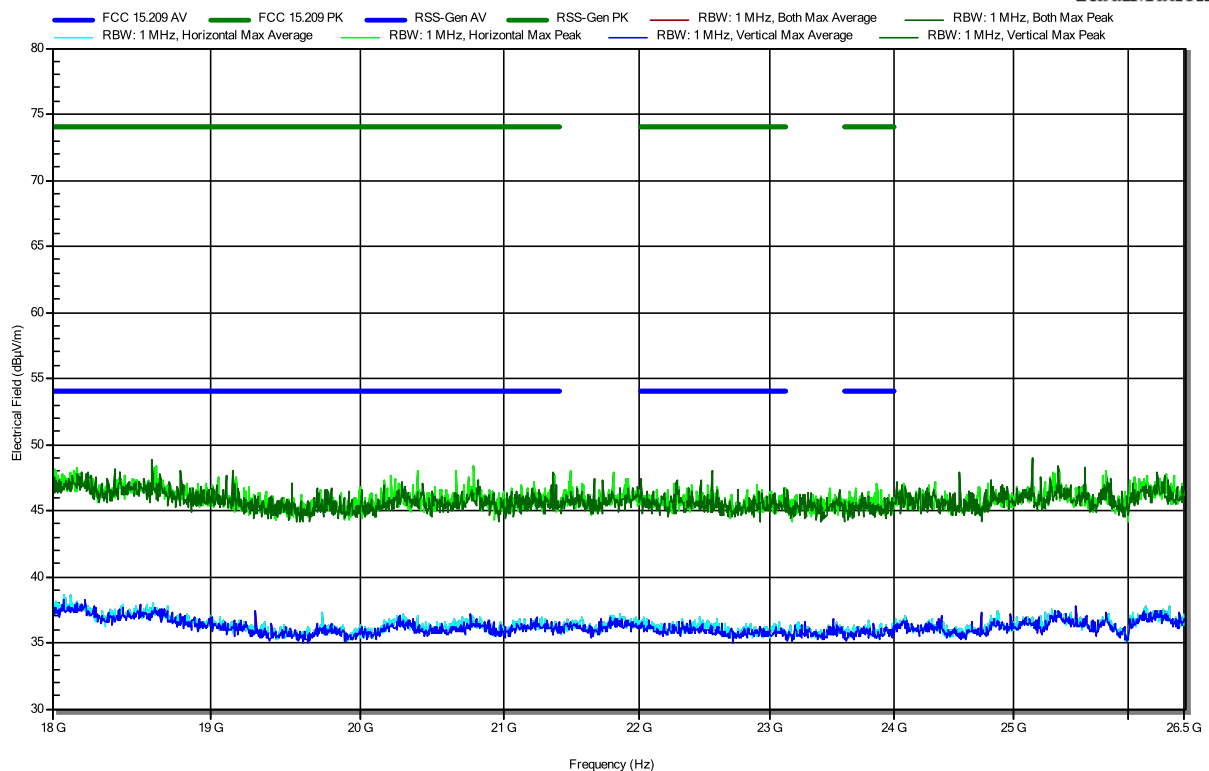


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-29

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RadiMation

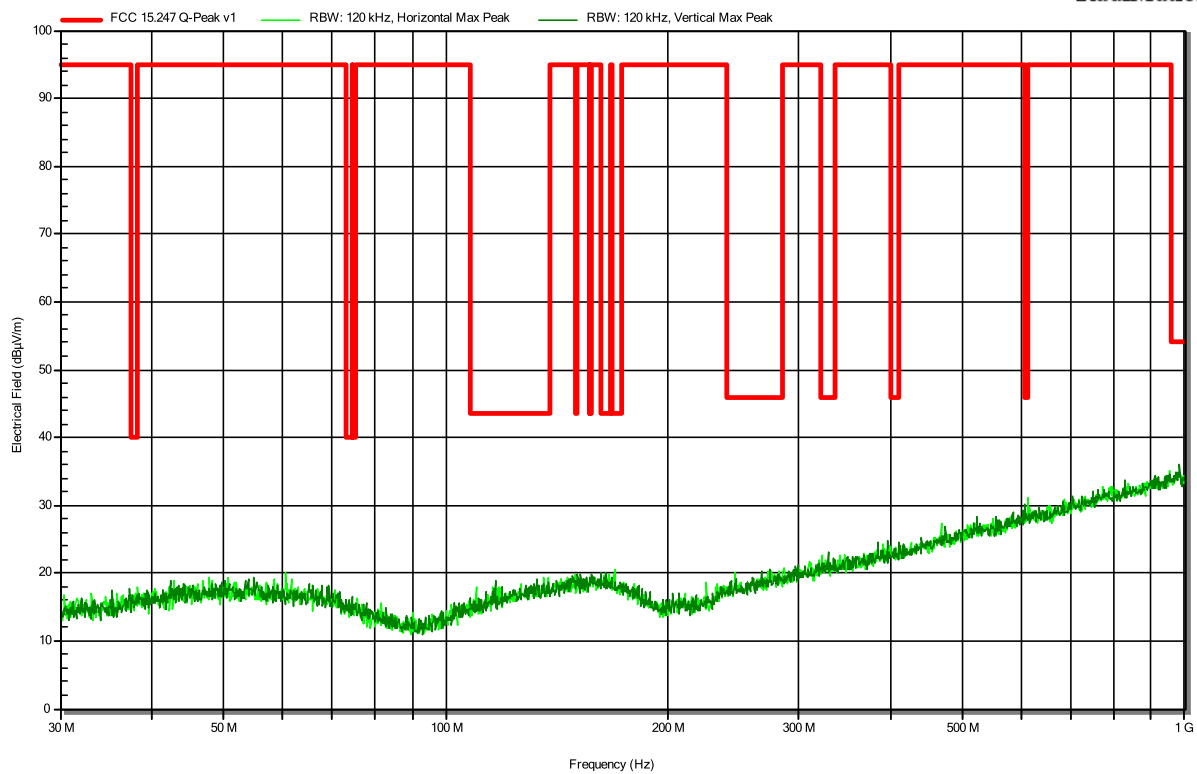


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-29

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RadiMation

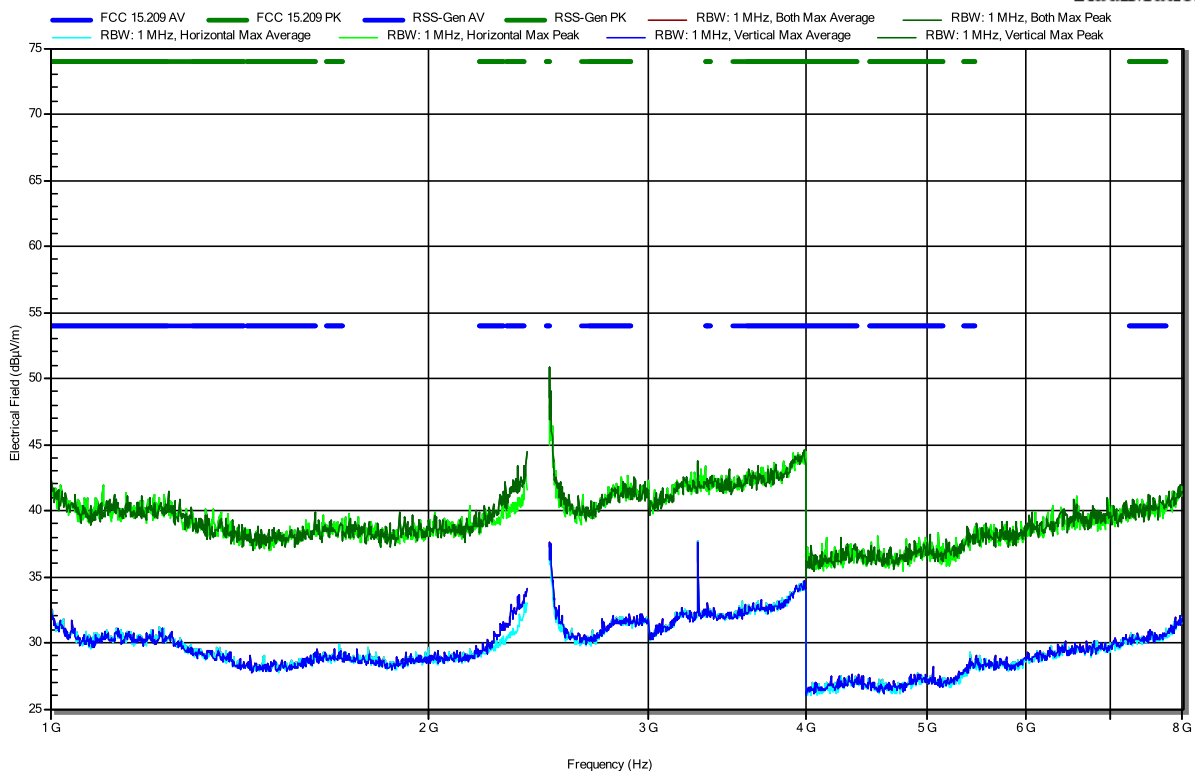


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-28

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RadiMation

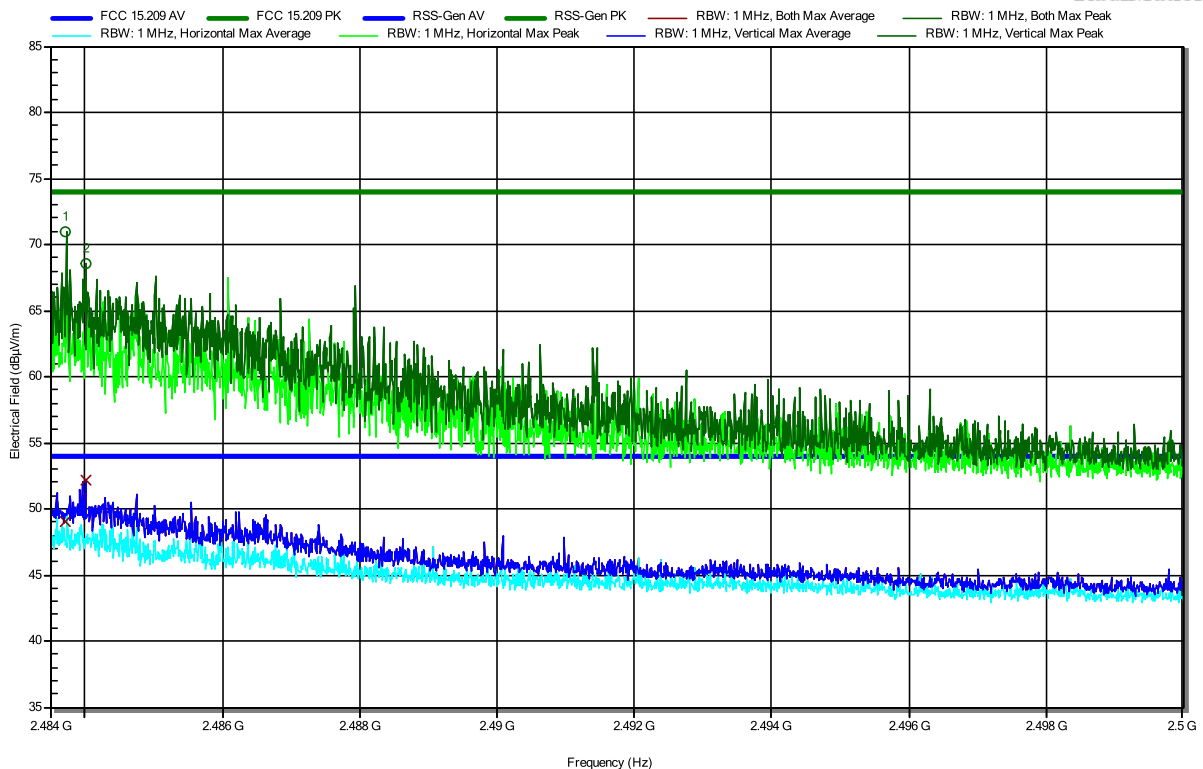


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20, RU-242, Extend Range
 Test Date: 2024-02-28
 Note: upper bandedge

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.4837 GHz	71.01 dBµV/m	74 dBµV/m	-2.99 dB	Pass	Vertical
2.484 GHz	68.61 dBµV/m	74 dBµV/m	-5.39 dB	Pass	Vertical

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.4837 GHz	49.02 dBµV/m	54 dBµV/m	-4.98 dB	Pass	Vertical
2.484 GHz	52.16 dBµV/m	54 dBµV/m	-1.84 dB	Pass	Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

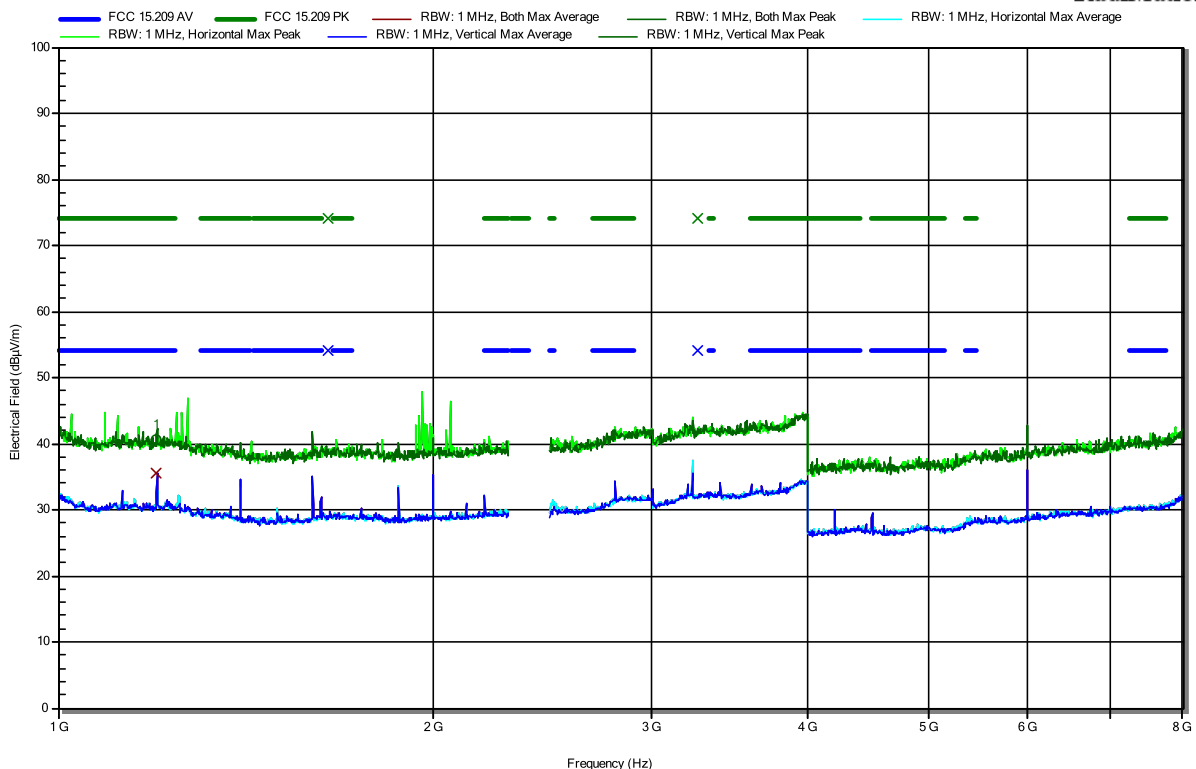
ANNEX B Transmitter spurious emissions in the spurious domain with Antenna 2 (External, ANT-2J Antennas-2JF1002P)

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26_0
 Test Date: 2024-03-01

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.1999 GHz	40.69 dBµV/m	74 dBµV/m	-33.31 dB	Pass	Vertical

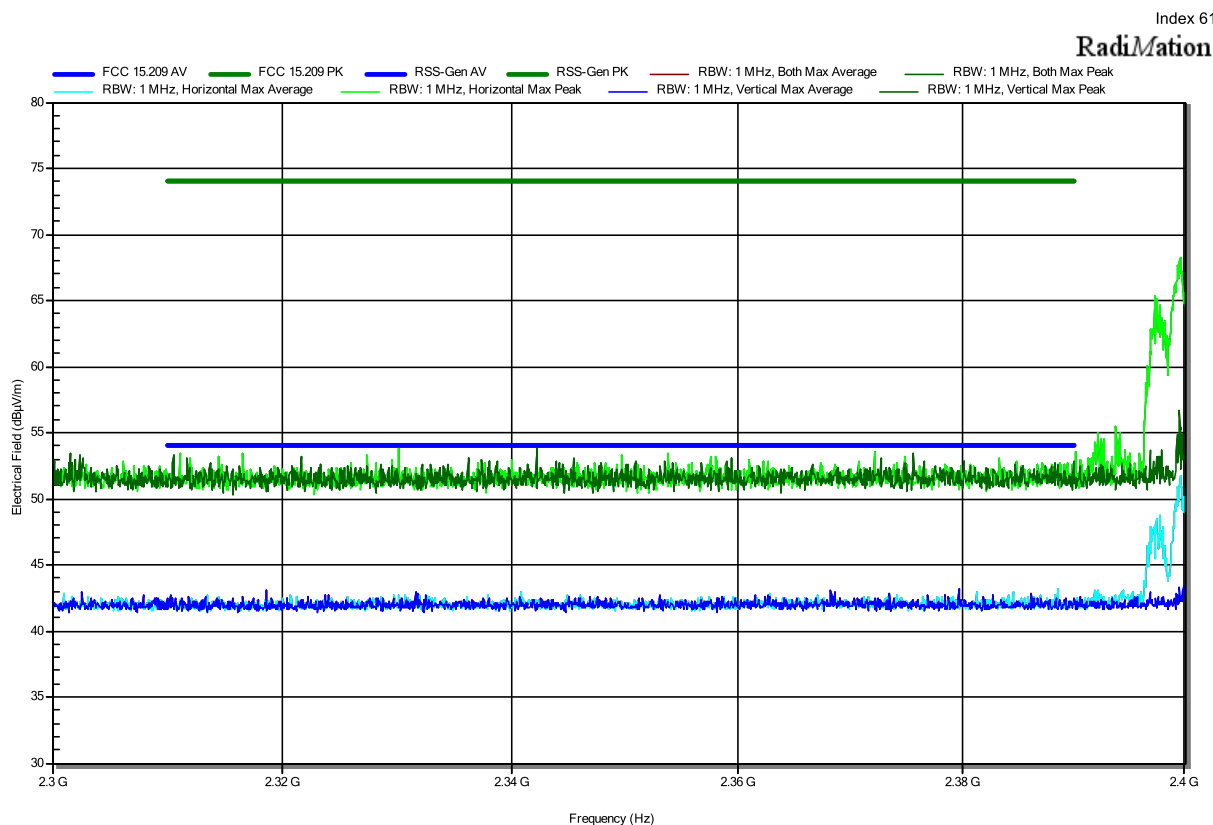
Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
1.1999 GHz	35.49 dBµV/m	54 dBµV/m	-18.51 dB	Pass	Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26_0
 Test Date: 2024-03-01
 Note: lower bandedge

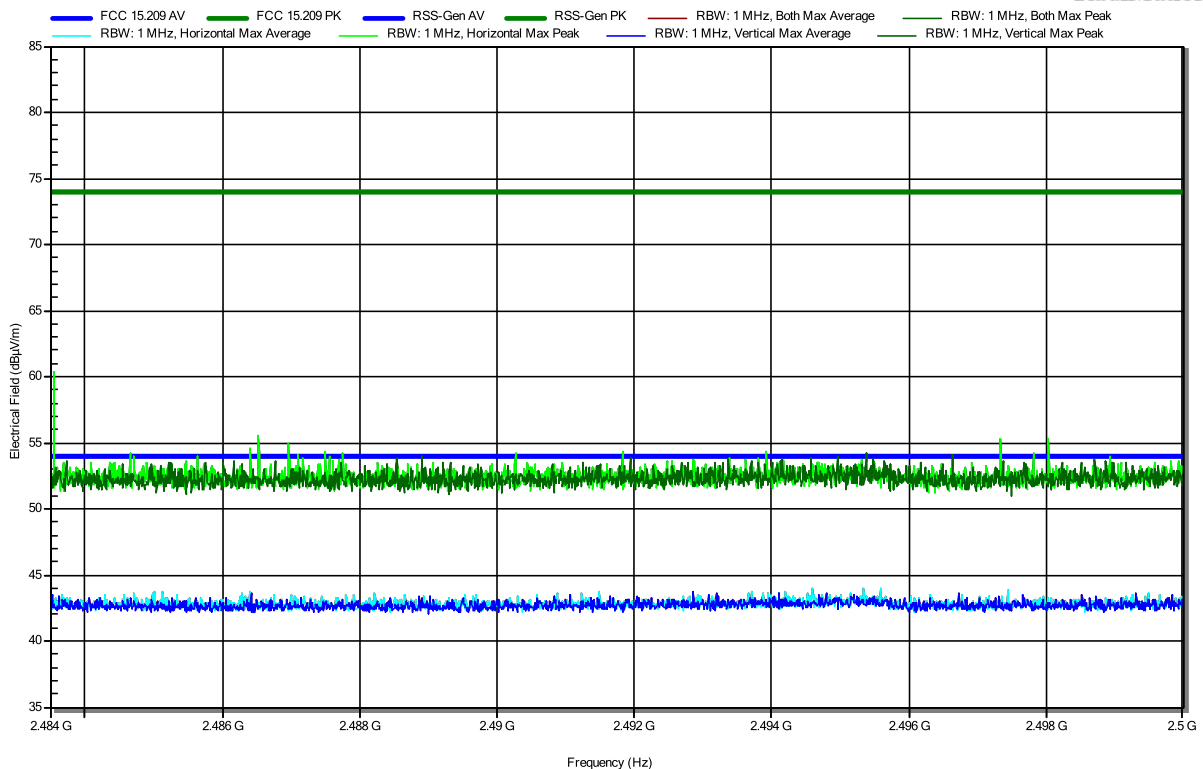


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26_8
 Test Date: 2024-03-01
 Note: upper bandedge

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RadiMation

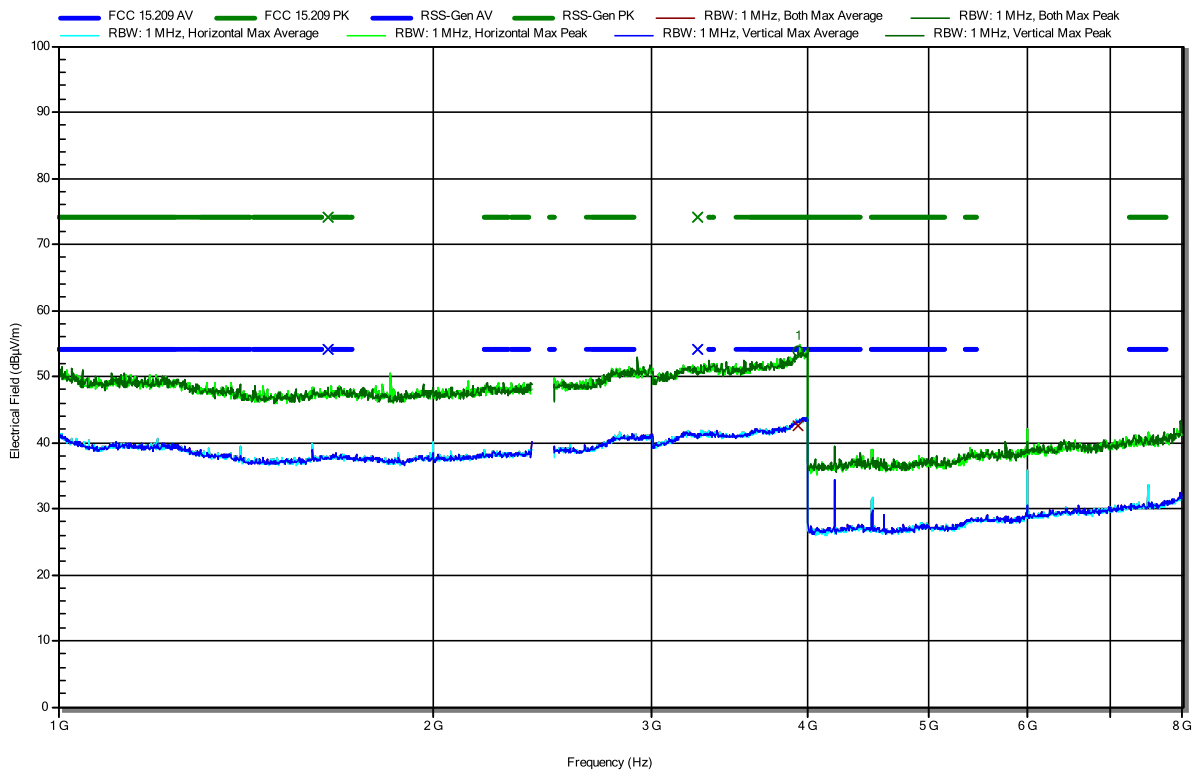


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26_8
 Test Date: 2024-03-01

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RadiMation



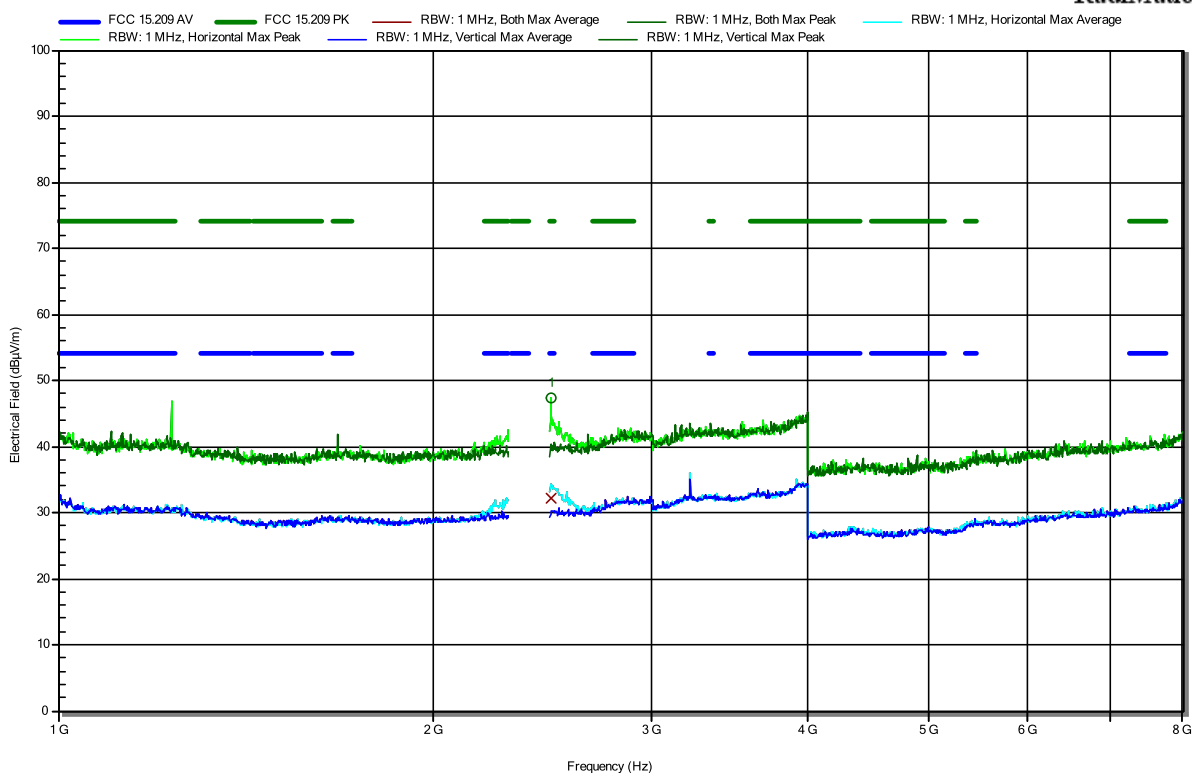
Frequency 3.927 GHz	Peak 53.91 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.09 dB	Peak Status Pass	Polarization Vertical
Frequency 3.927 GHz	Average 42.54 dBµV/m	Average Limit 54 dBµV/m	Average Difference -11.46 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29

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RadiMation



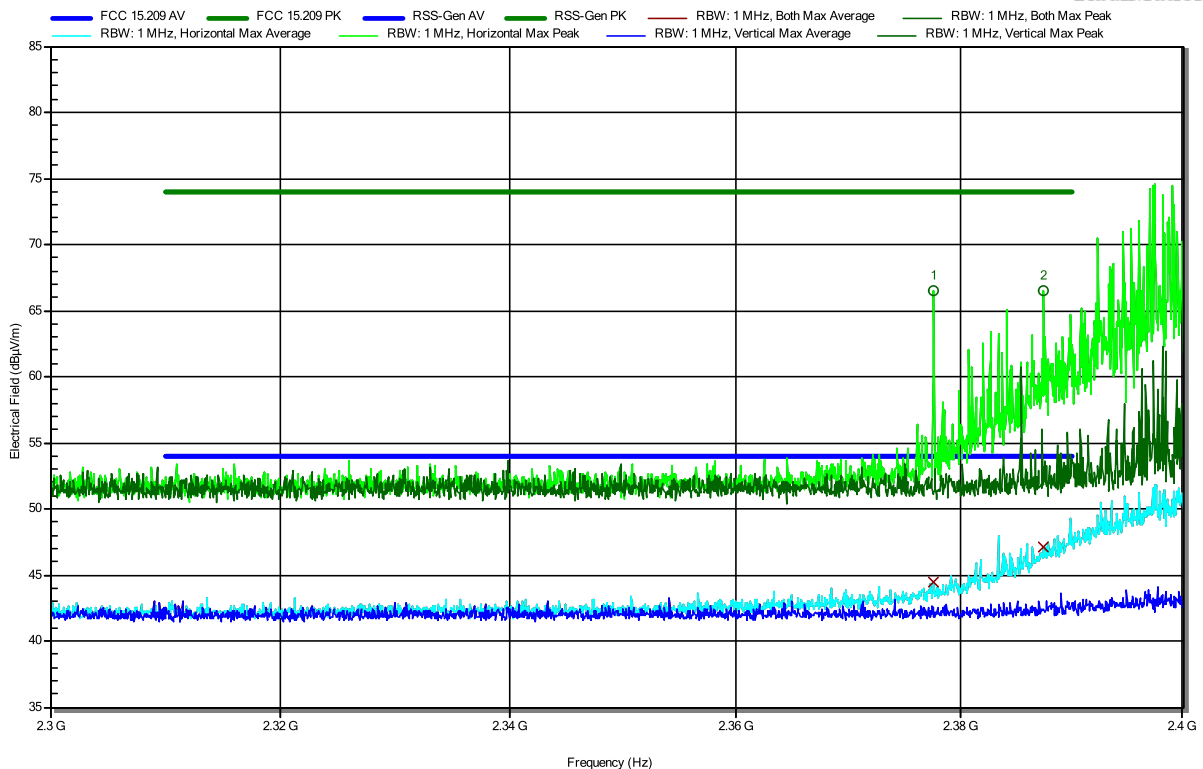
Frequency 2.4863 GHz	Peak 47.42 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -26.58 dB	Peak Status Pass	Polarization Horizontal
Frequency 2.4863 GHz	Average 32.06 dBµV/m	Average Limit 54 dBµV/m	Average Difference -21.94 dB	Average Status Pass	Polarization Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29
 Note: lower bandedge

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RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
2.3776 GHz	66.46 dBµV/m	74 dBµV/m	-7.54 dB	Pass	Horizontal
2.3875 GHz	66.56 dBµV/m	74 dBµV/m	-7.44 dB	Pass	Horizontal

Frequency	Average	Average Limit	Average Difference	Average Status	Polarization
2.3776 GHz	44.52 dBµV/m	54 dBµV/m	-9.48 dB	Pass	Horizontal
2.3875 GHz	47.13 dBµV/m	54 dBµV/m	-6.87 dB	Pass	Horizontal

Test Report No.: G0M-2309-2215-TFC247WF-V01

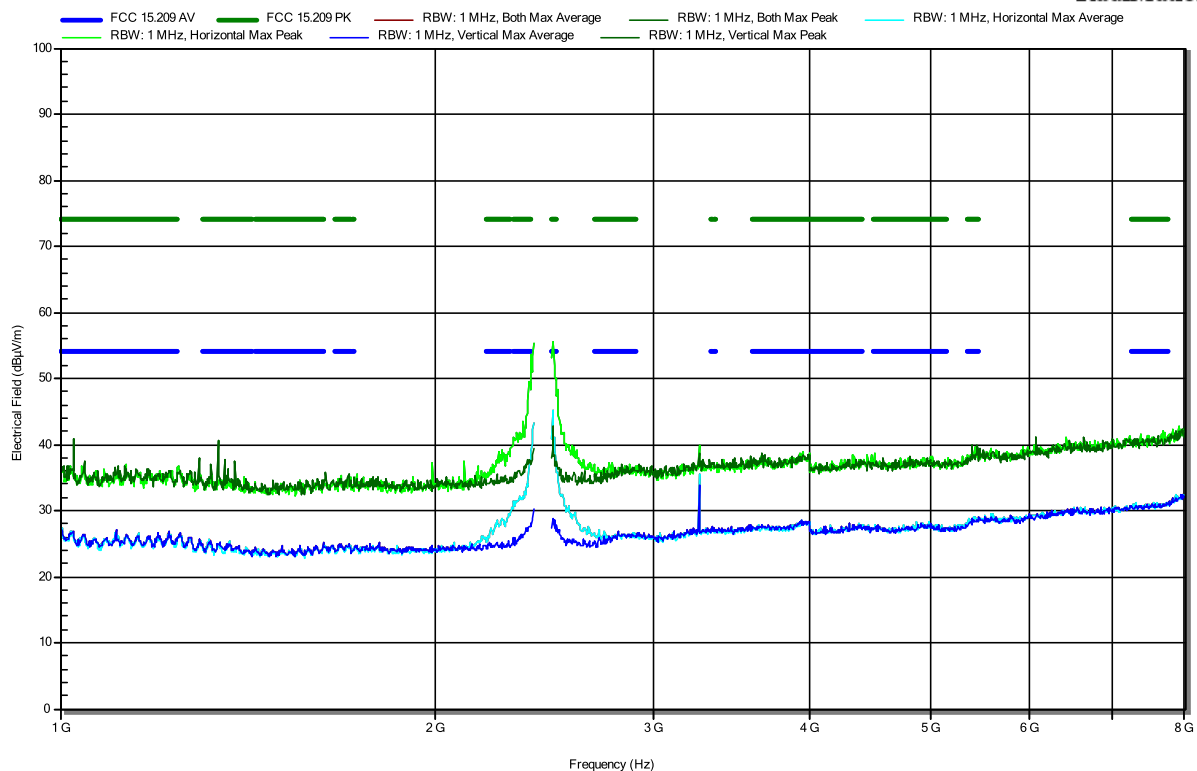
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE20, RU-242_61, Extended mode
 Test Date: 2024-02-29

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RadiMation

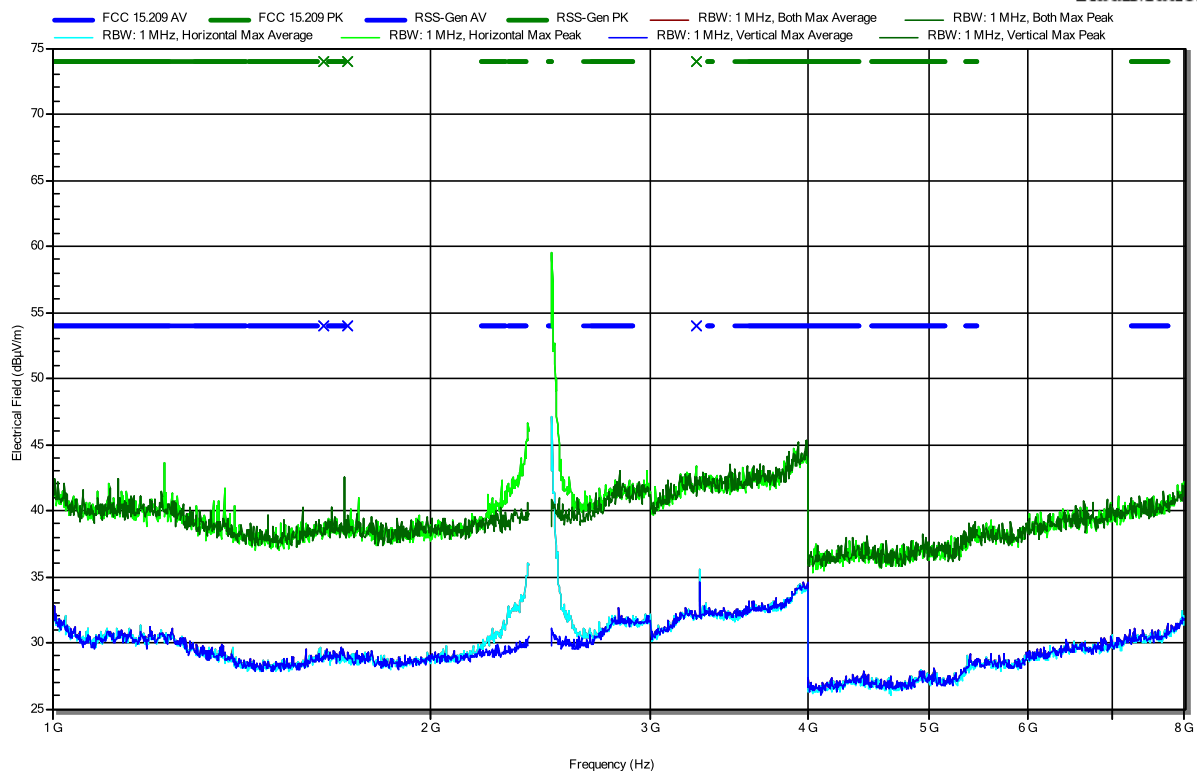


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29

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RadiMation

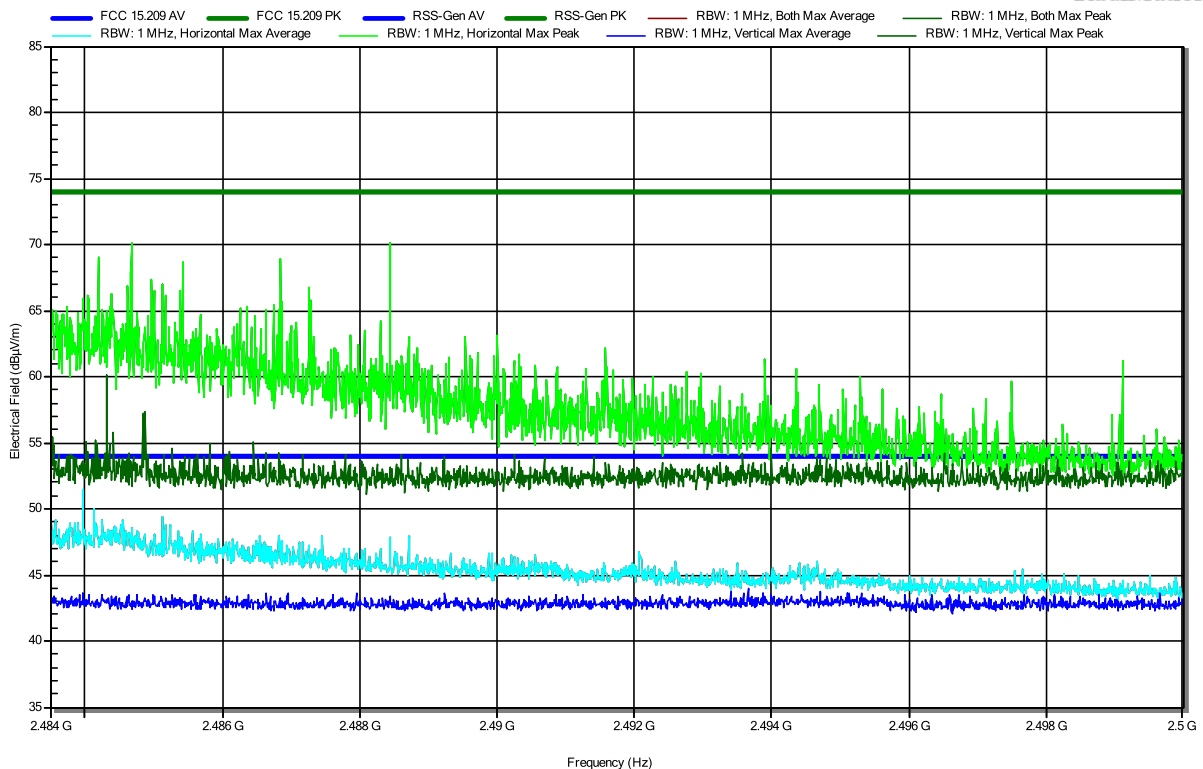


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29
 Note: upper bandedge

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RadiMation



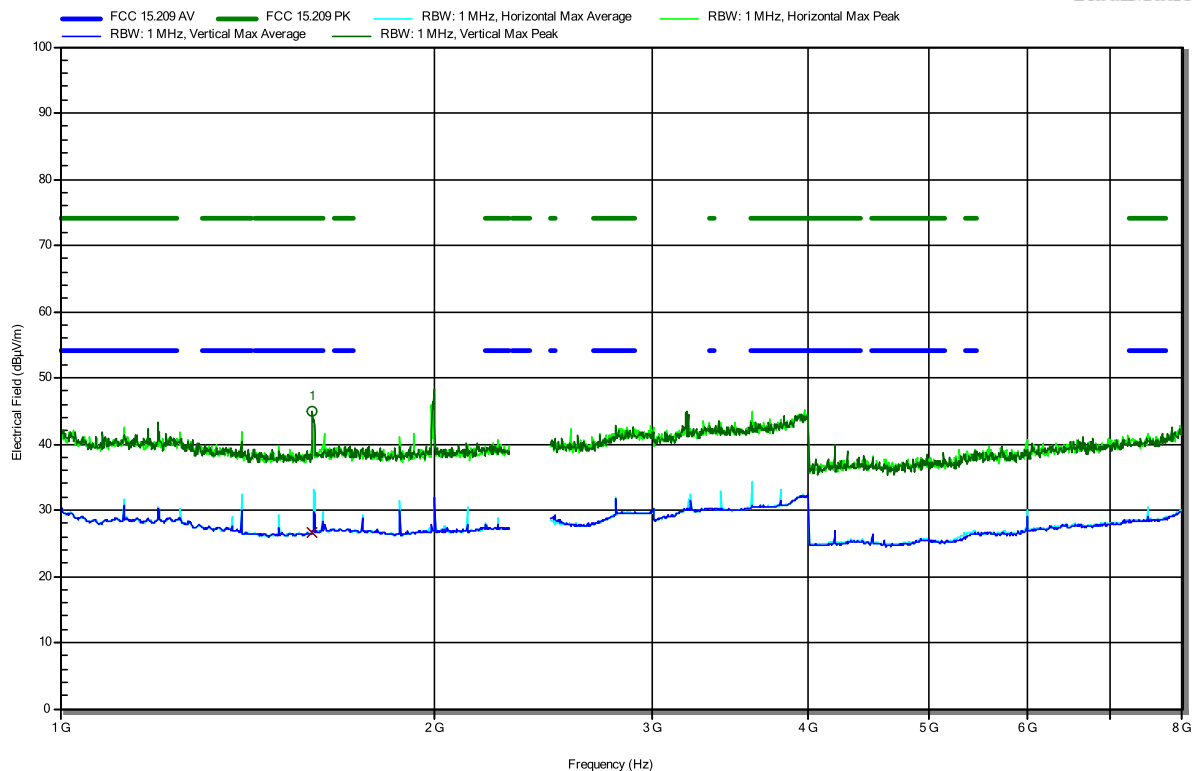
ANNEX C Transmitter spurious emissions in the spurious domain with Antenna 3 (External, ANT-TDK-ANT162442DT-2001A2)

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26_0
 Test Date: 2024-03-07

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RadiMation



Frequency 1.5967 GHz	Peak 45.02 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -28.98 dB	Peak Status Pass	Polarization Vertical
Frequency 1.5967 GHz	Average 26.57 dBµV/m	Average Limit 54 dBµV/m	Average Difference -27.43 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

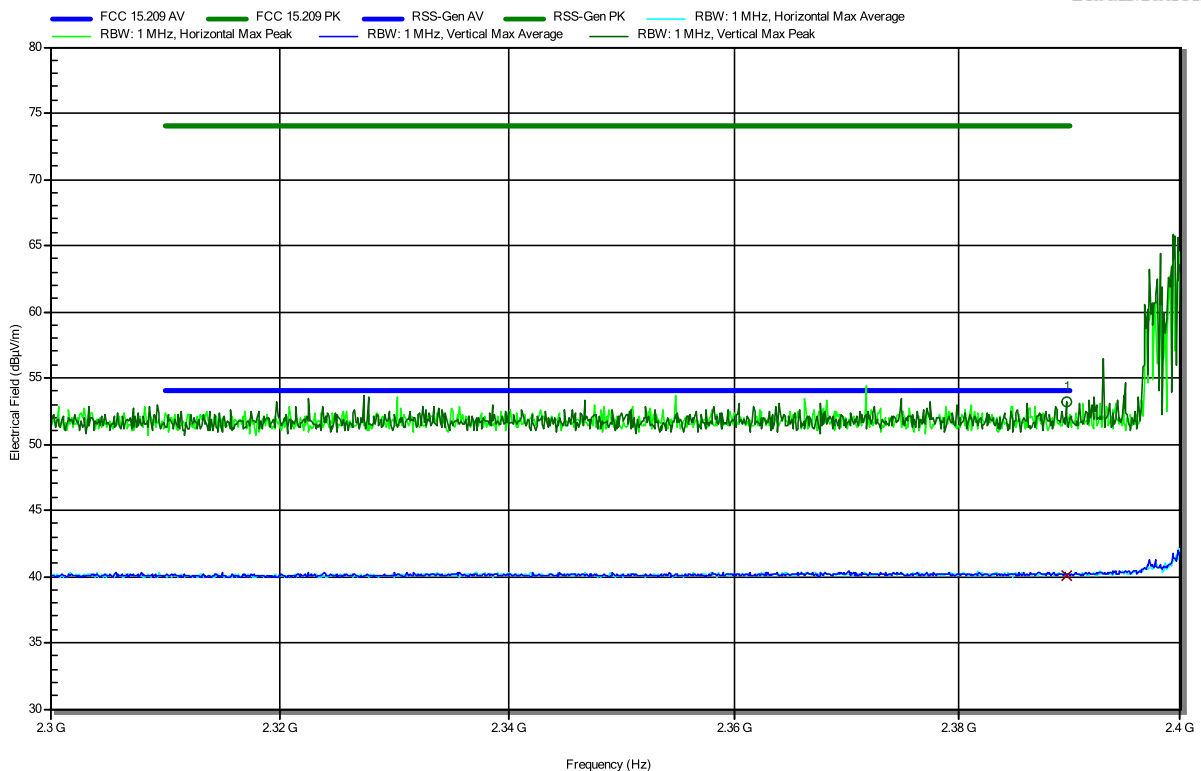
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-26_0
 Test Date: 2024-03-07
 Note: lower bandedge

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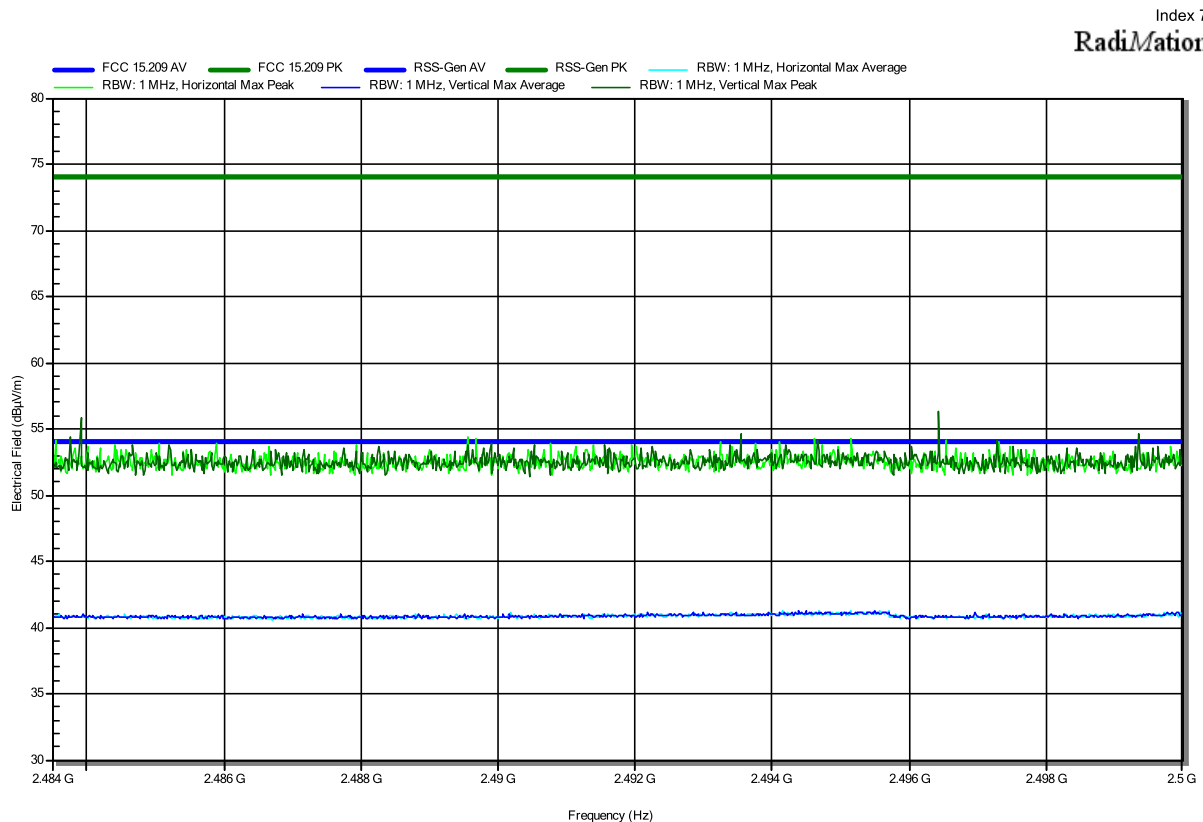
RadiMation



Frequency 2.3897 GHz	Peak 53.21 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.79 dB	Peak Status Pass	Polarization Vertical
Frequency 2.3897 GHz	Average 40.1 dBµV/m	Average Limit 54 dBµV/m	Average Difference -13.9 dB	Average Status Pass	Polarization Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26_8
 Test Date: 2024-03-07
 Note: upper bandedge

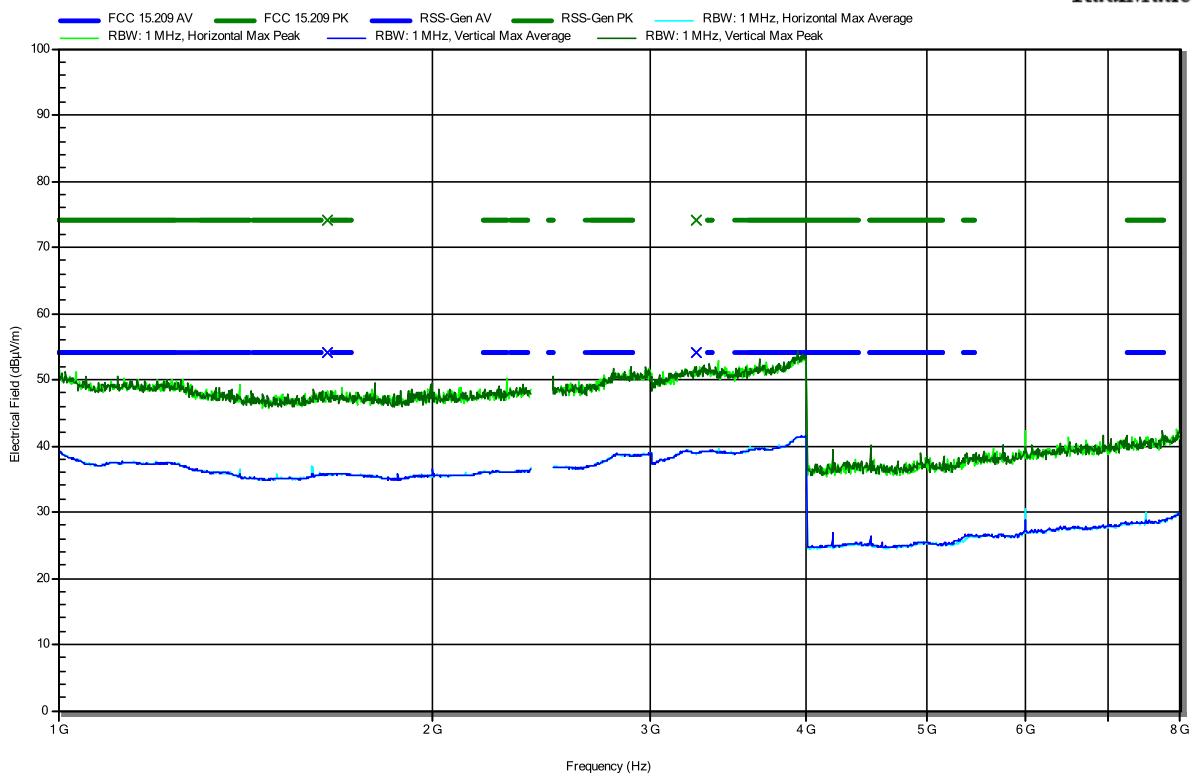


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-26_8
 Test Date: 2024-03-07

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RadiMation

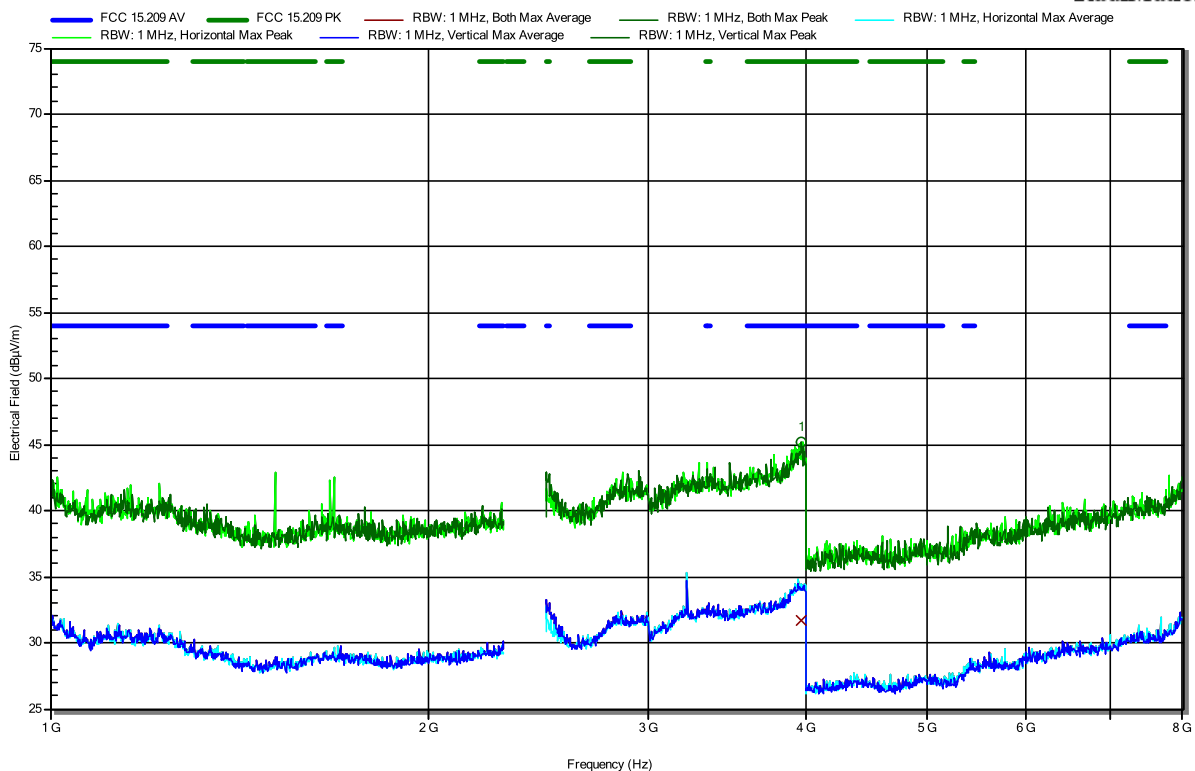


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29

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RadiMation



Frequency 3.9713 GHz	Peak 45.21 dBμV/m	Peak Limit 74 dBμV/m	Peak Difference -28.79 dB	Peak Status Pass	Polarization Vertical
Frequency 3.9713 GHz	Average 31.69 dBμV/m	Average Limit 54 dBμV/m	Average Difference -22.31 dB	Average Status Pass	Polarization Vertical

Test Report No.: G0M-2309-2215-TFC247WF-V01

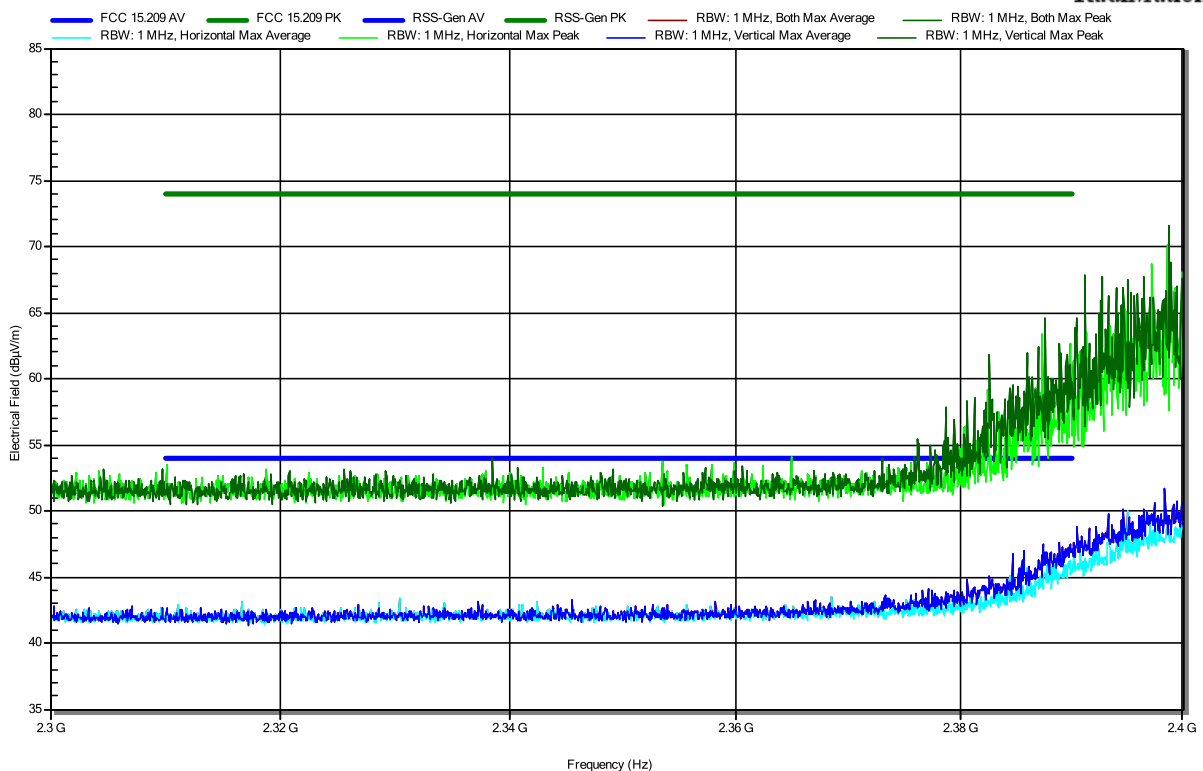
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2412 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29
 Note: lower bandedge

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RadiMation

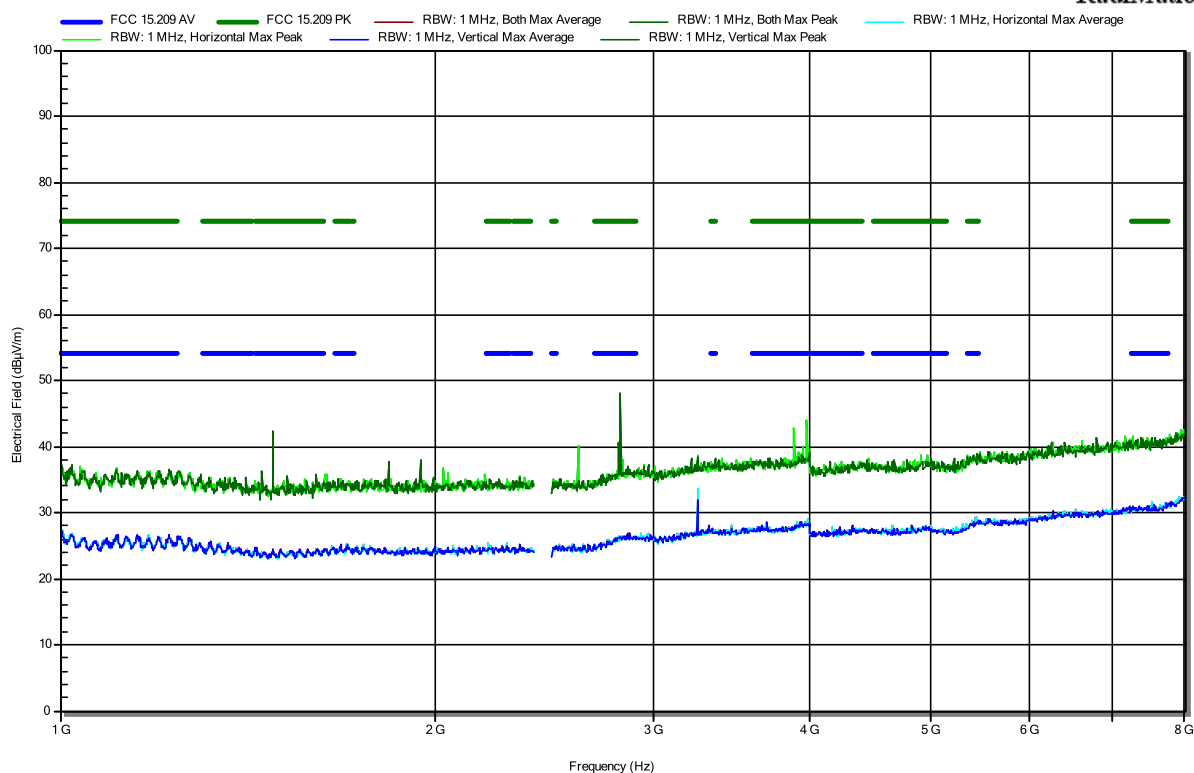


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2437 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29

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RadiMation

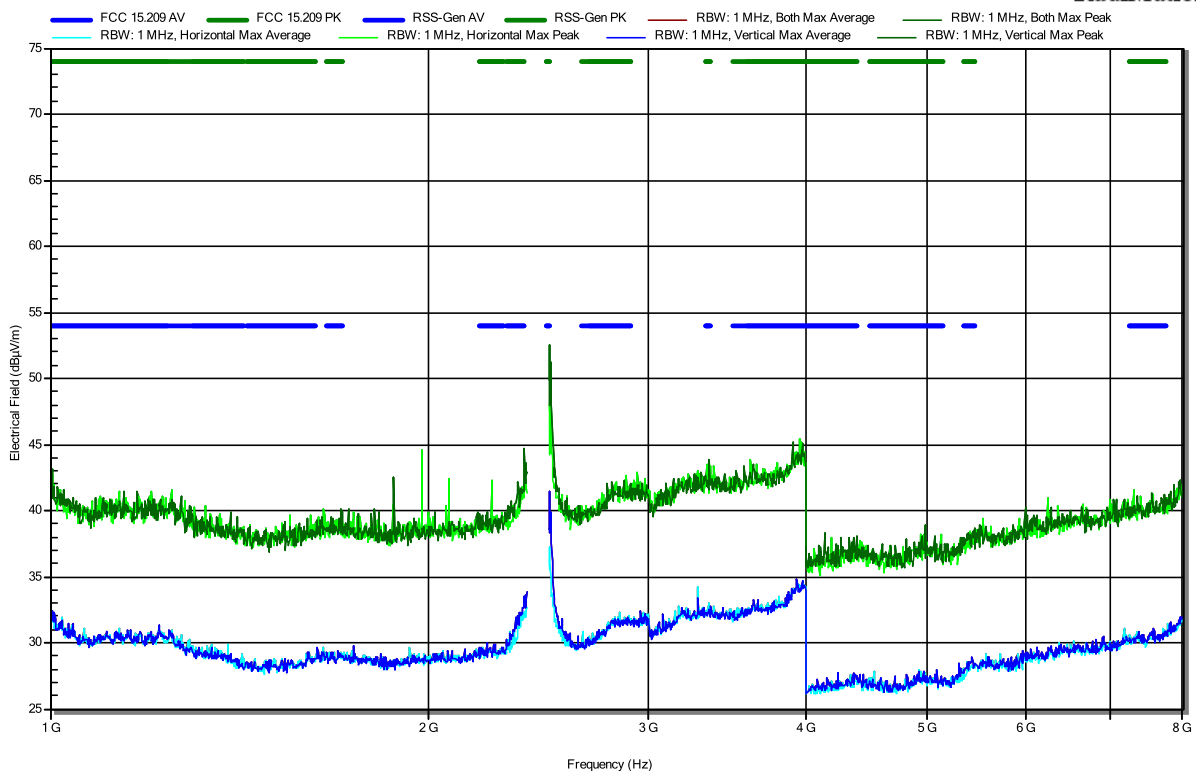


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29

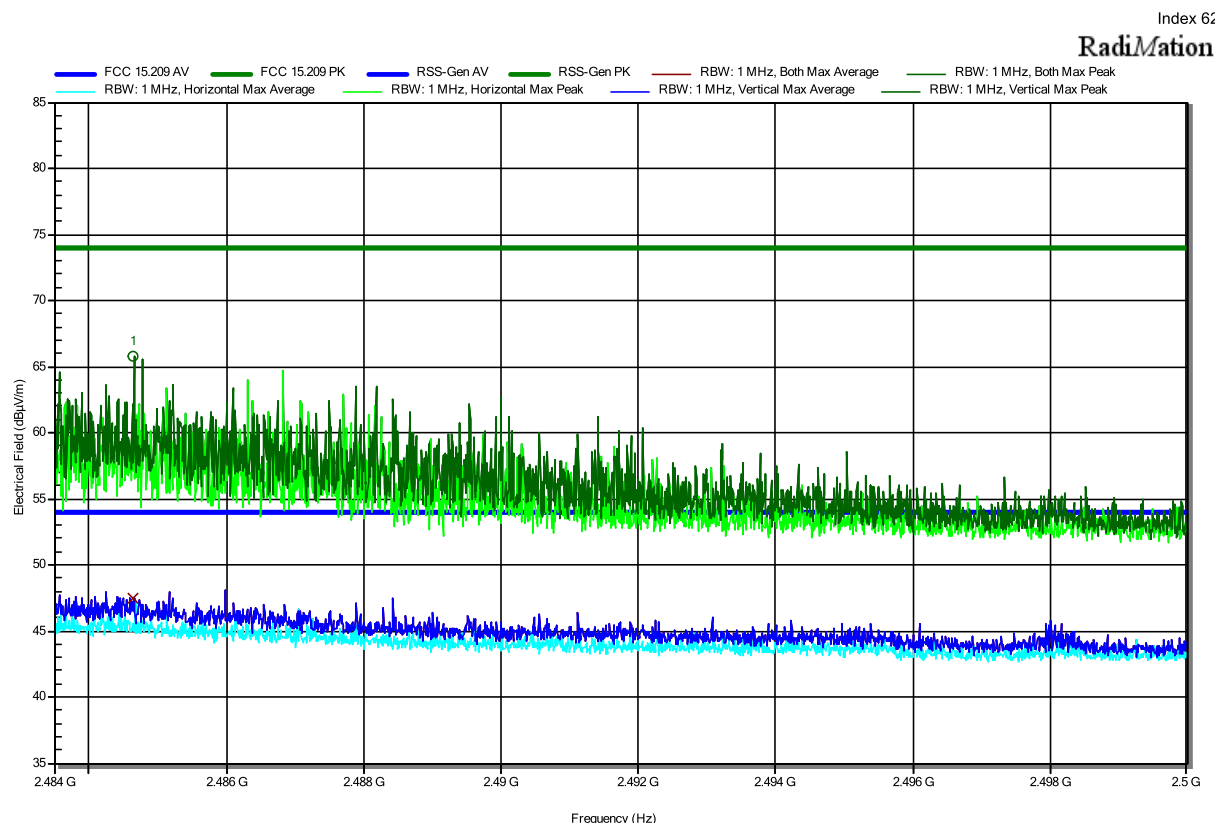
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RadiMation



Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, 2462 MHz, HE20,RU-242_61, Extended mode
 Test Date: 2024-02-29
 Note: upper bandedge



Frequency 2.4847 GHz	Peak 65.77 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -8.23 dB	Peak Status Pass	Polarization Vertical
Frequency 2.4847 GHz	Average 47.44 dBµV/m	Average Limit 54 dBµV/m	Average Difference -6.56 dB	Average Status Pass	Polarization Vertical

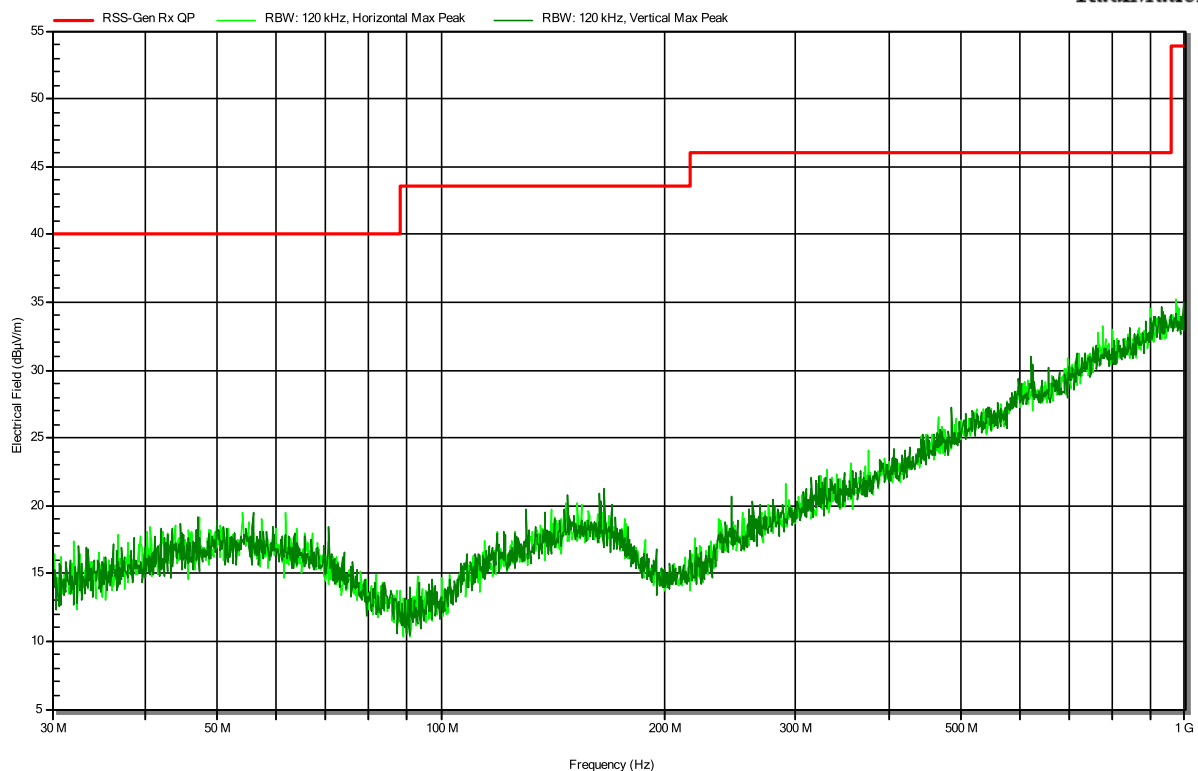
ANNEX D Receiver spurious emissions with Antenna 1 (External, ANT-Taoglas-GW.51.5153)

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
Applicant: Panasonic Industrial Devices Europe GmbH
Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
Model: ENWF9511C1KF
Test Sample ID: 46850
Test Site: Eurofins Product Service GmbH
Operator: Mr. Siddique
Measurement software: RadiMation, version 2020.1.8
Test Conditions: Tnom: 21 °Celsius, Vnom:
Antenna: Schwarzbeck VULB 9168
Measurement distance: 3 m
Mode: Rx; IEEE 802.11ax, 2412 MHz
Test Date: 2024-02-29
Note: EUT horizontal

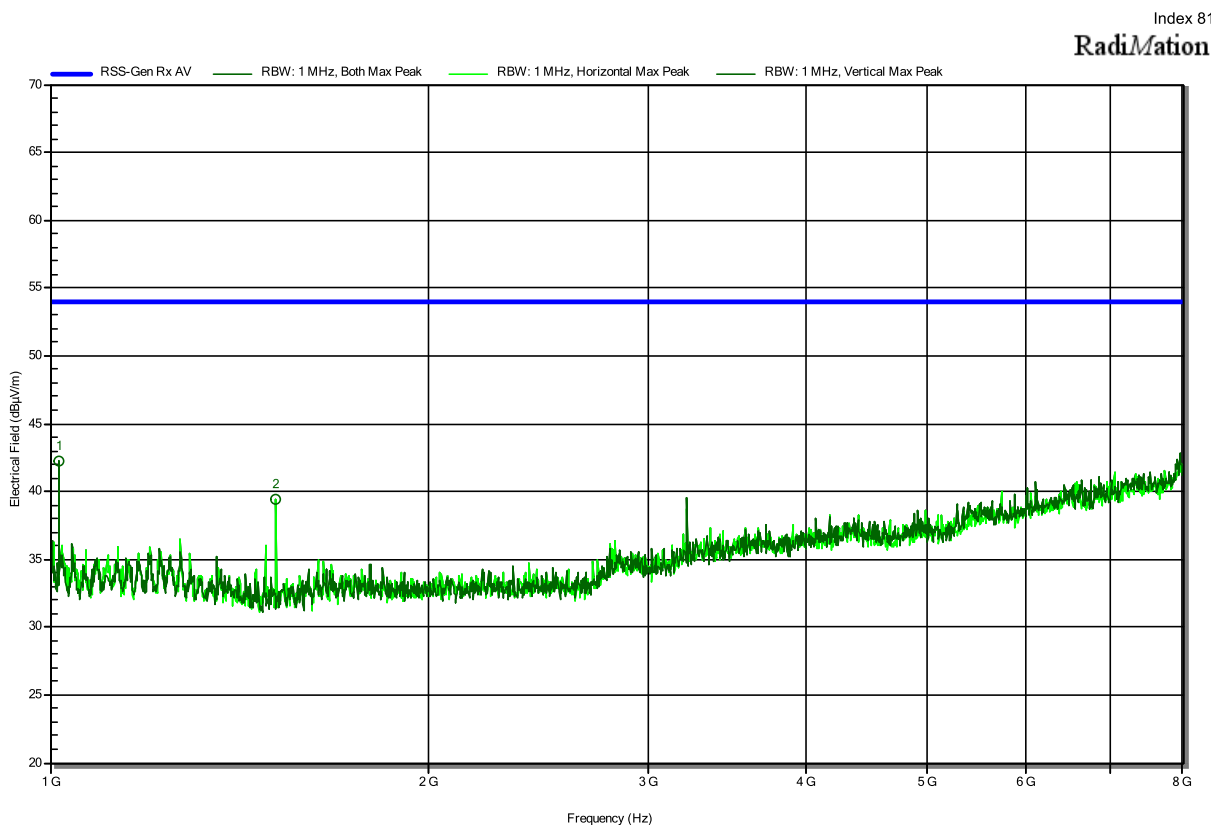
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Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2412 MHz
 Test Date: 2024-02-29



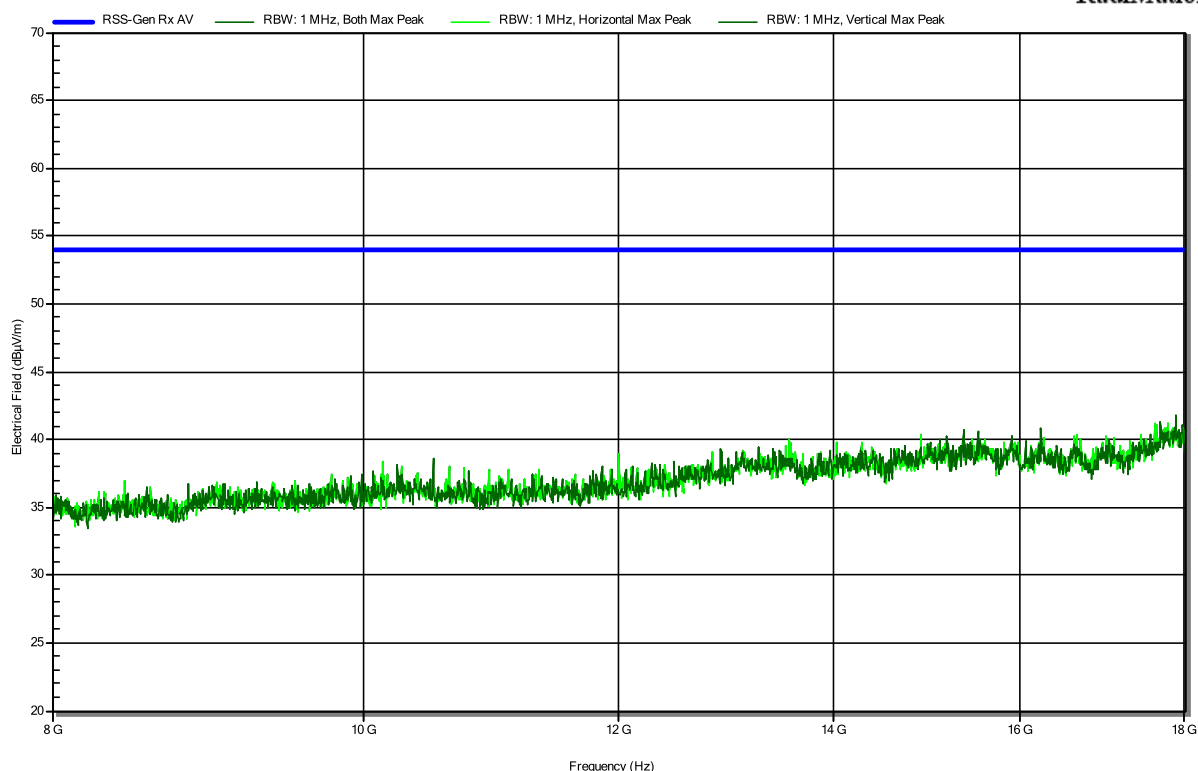
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.016 GHz	42.27 dBµV/m	53.98 dBµV/m	-11.71 dB	Pass	Vertical
1.514 GHz	39.44 dBµV/m	53.98 dBµV/m	-14.54 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2412 MHz
 Test Date: 2024-02-29

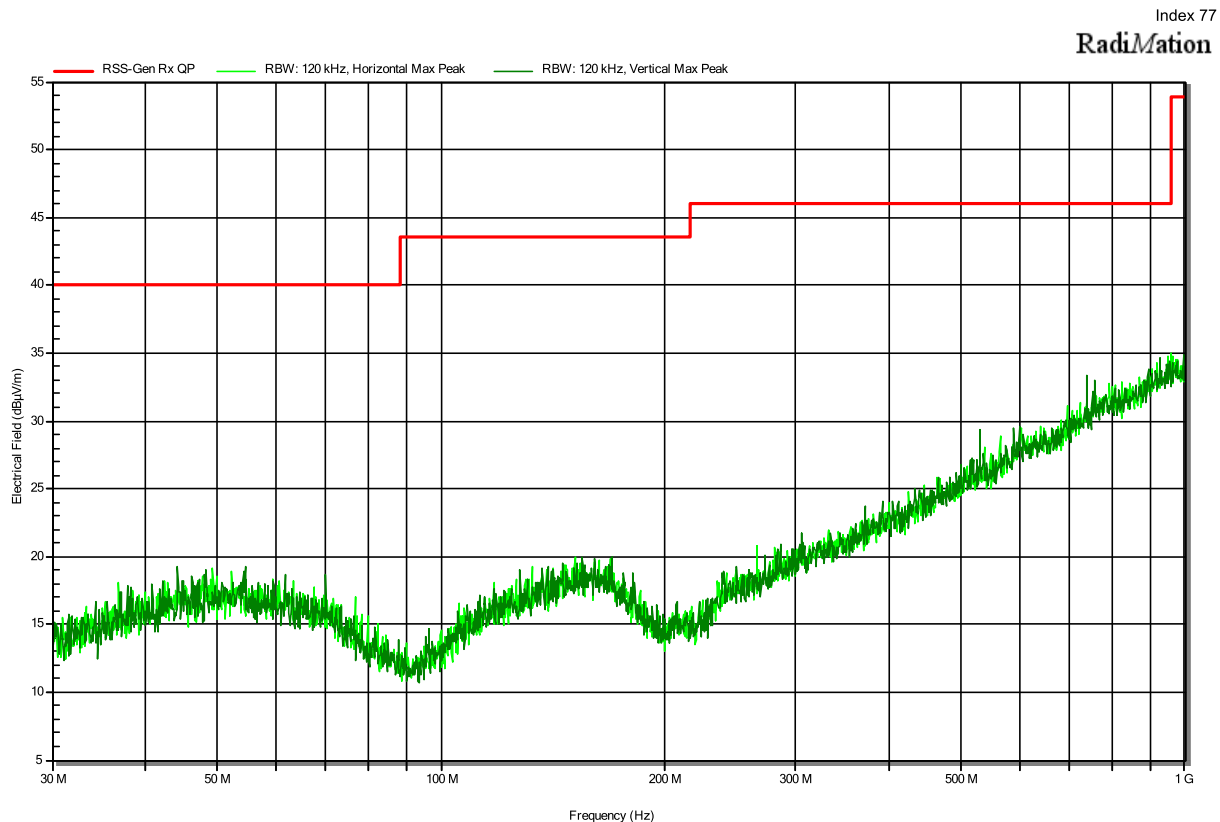
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Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2437 MHz
 Test Date: 2024-02-29
 Note: EUT horizontal

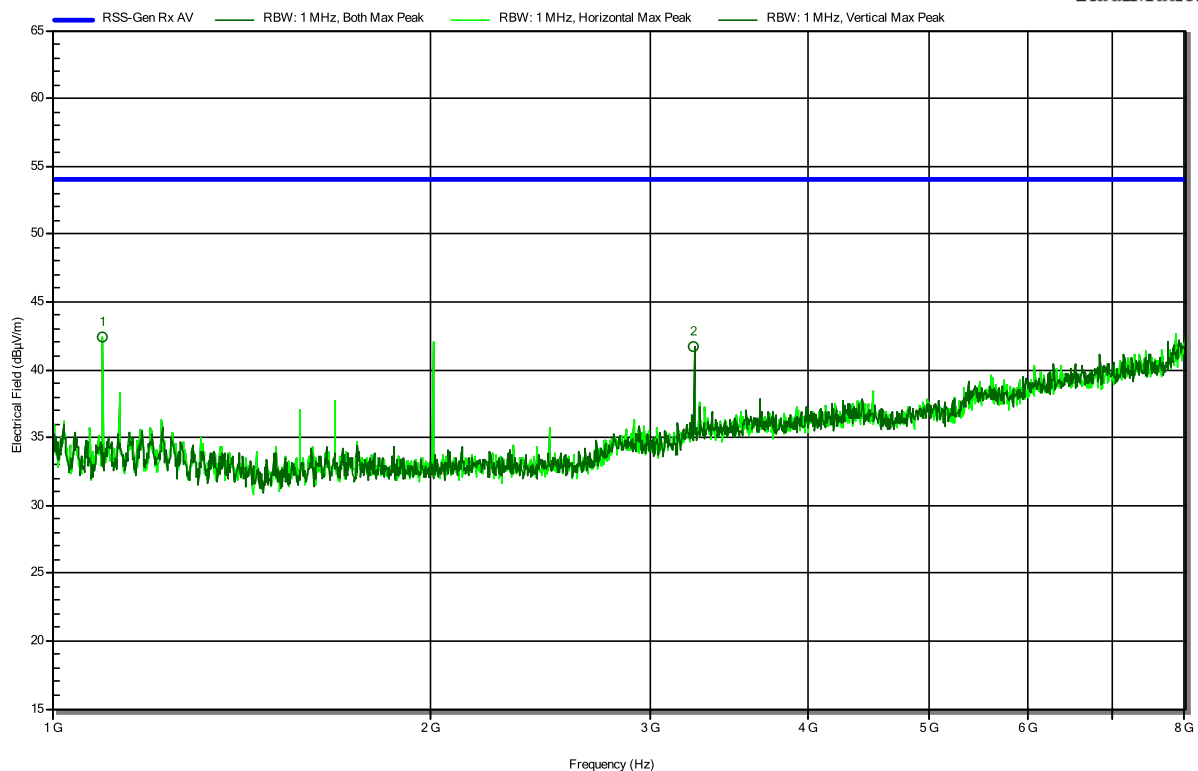


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Godson Offorji
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2437 MHz
 Test Date: 2024-02-29

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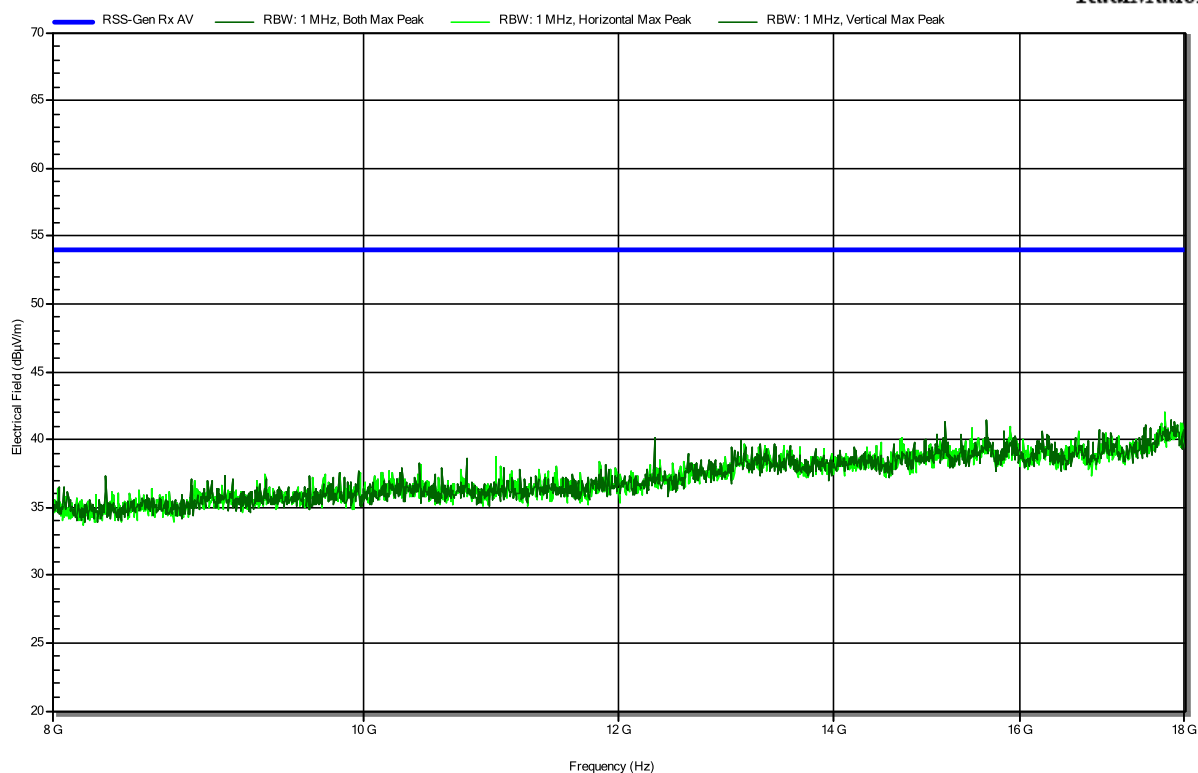
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.097 GHz	42.41 dBµV/m	53.98 dBµV/m	-11.57 dB	Pass	Horizontal
3.249 GHz	41.72 dBµV/m	53.98 dBµV/m	-12.26 dB	Pass	Vertical

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2437 MHz
 Test Date: 2024-02-29

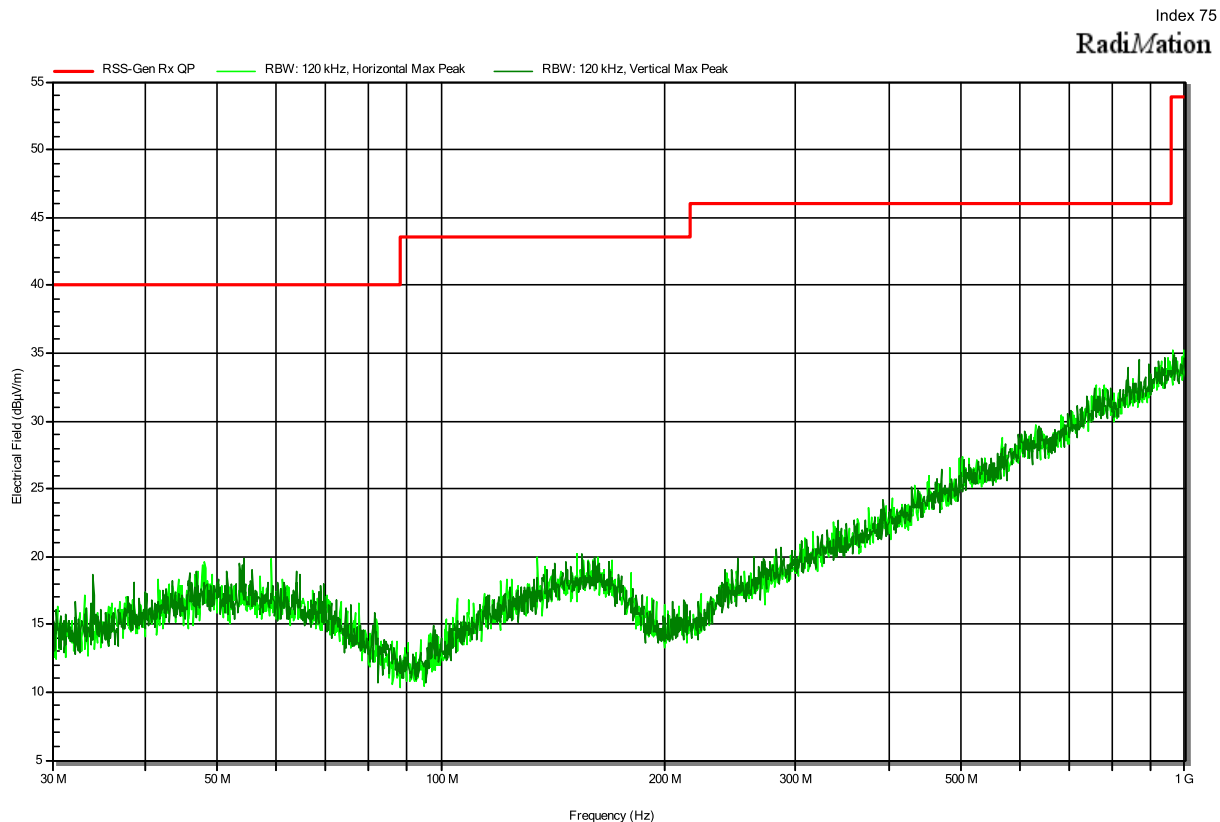
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Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck VULB 9168
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2462 MHz
 Test Date: 2024-02-29
 Note: EUT horizontal

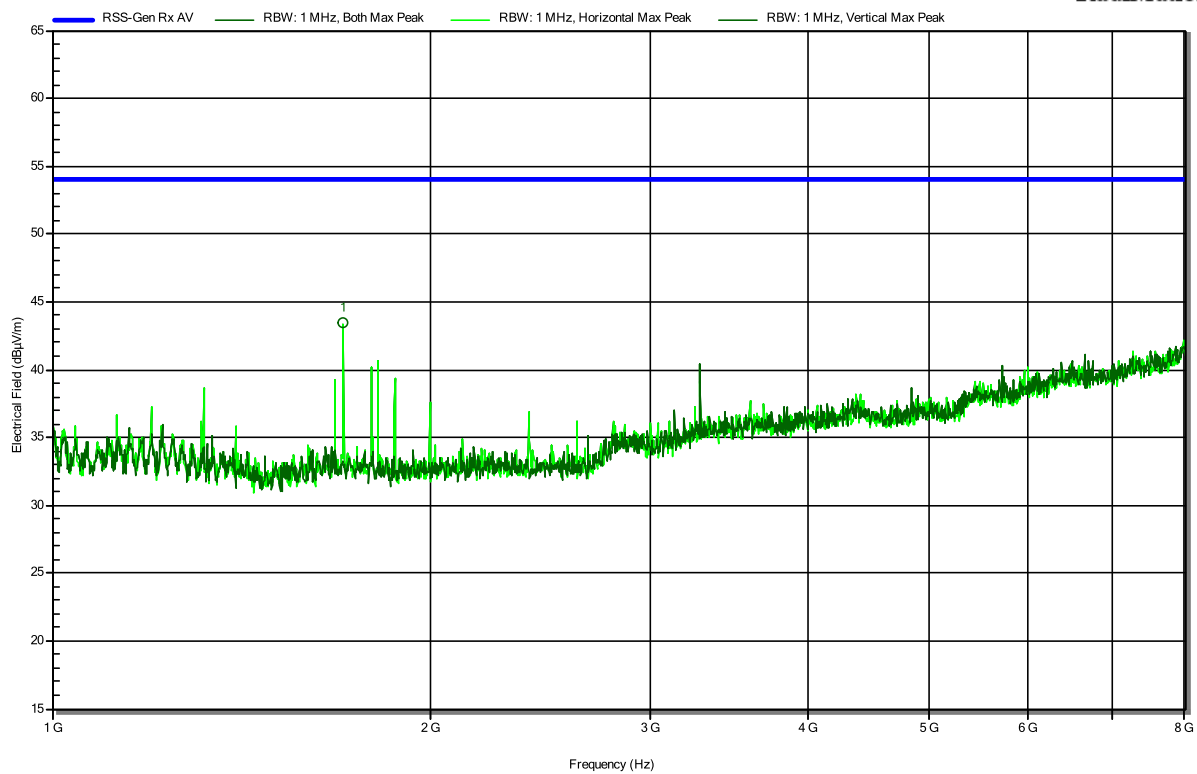


Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2462 MHz
 Test Date: 2024-02-29

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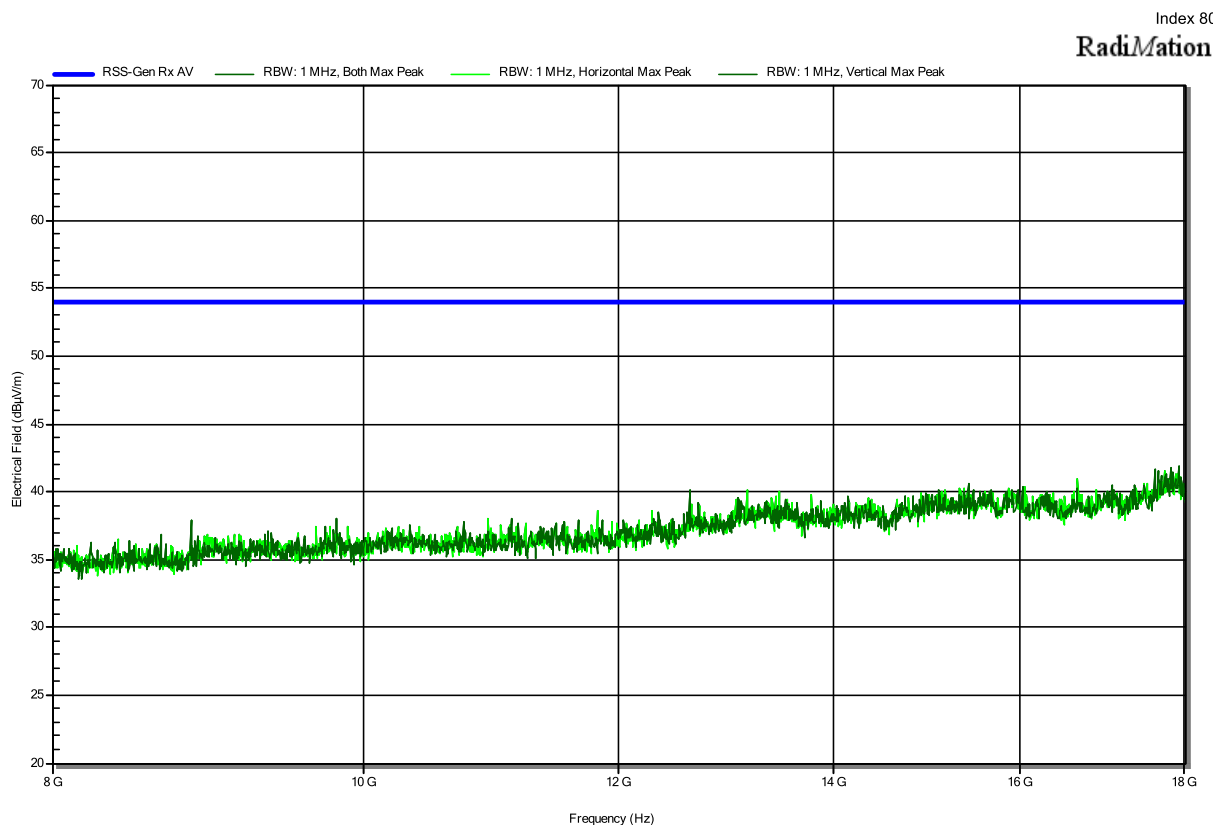
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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.706 GHz	43.4 dBµV/m	53.98 dBµV/m	-10.58 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46850
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck HWRD 650, Vertical
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2462 MHz
 Test Date: 2024-02-29
 Note:



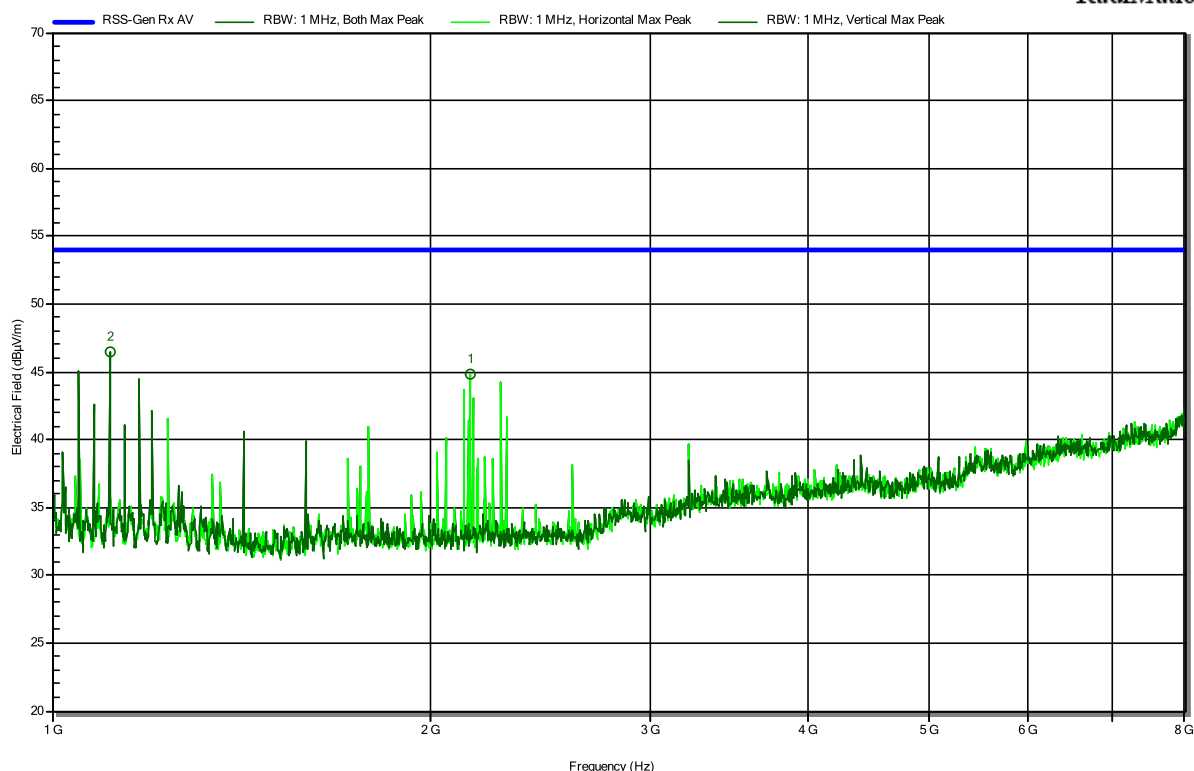
ANNEX E Receiver spurious emissions with Antenna 2 (External, ANT-2J Antennas-2JF1002P)

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
Applicant: Panasonic Industrial Devices Europe GmbH
Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
Model: ENWF9511C1KF
Test Sample ID: 46856
Test Site: Eurofins Product Service GmbH
Operator: Mr. Siddique
Measurement software: RadiMation, version 2020.1.8
Test Conditions: Tnom: 21 °Celsius, Vnom:
Antenna: Schwarzbeck BBHA 9120B
Measurement distance: 3 m
Mode: Rx; IEEE 802.11ax, 2412
Test Date: 2024-02-29

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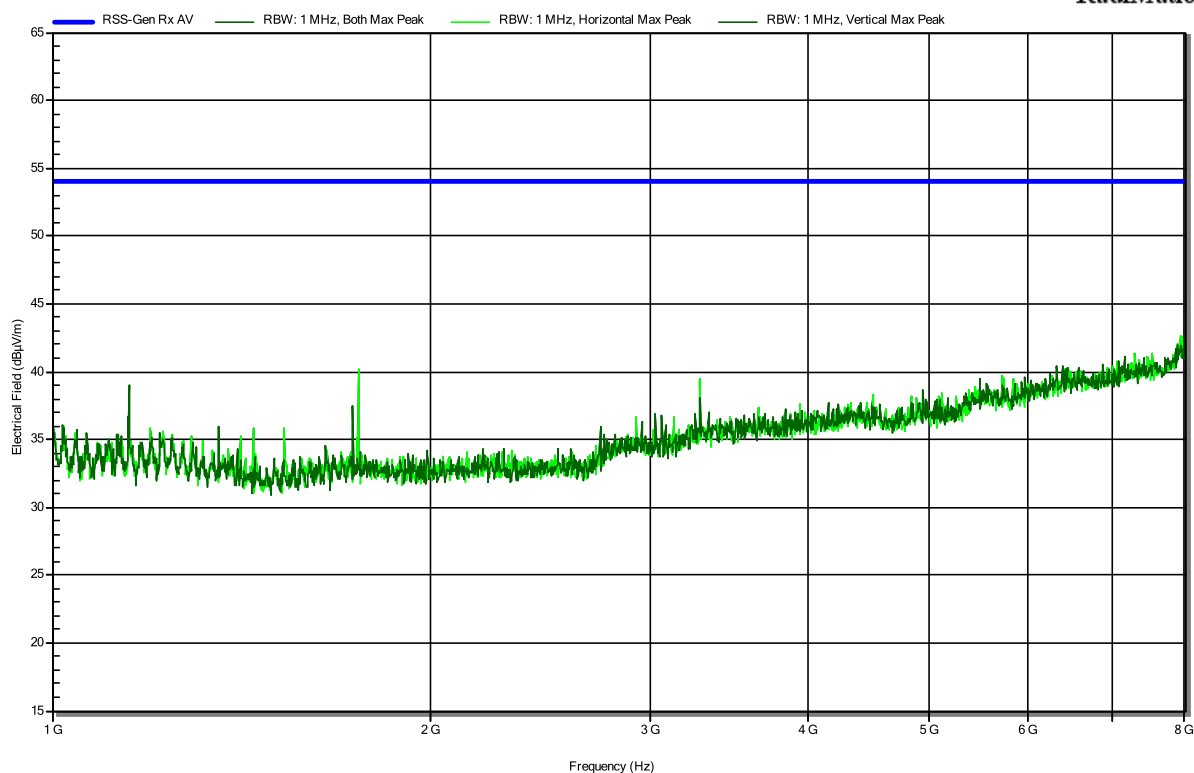
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.112 GHz	46.48 dBµV/m	53.98 dBµV/m	-7.5 dB	Pass	Vertical
2.152 GHz	44.83 dBµV/m	53.98 dBµV/m	-9.15 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46856
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2462
 Test Date: 2024-02-29

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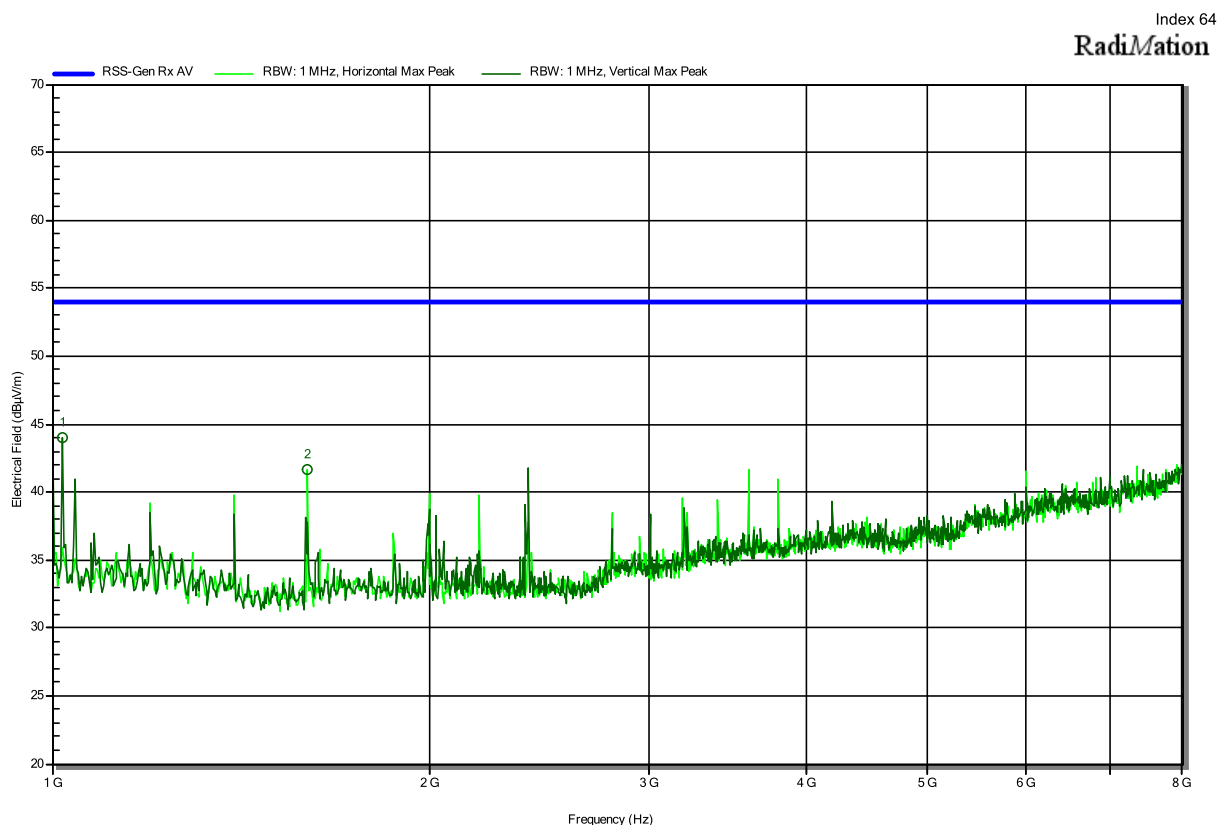
RadiMation



ANNEX F Receiver spurious emissions with Antenna 3 (External, ANT-TDK-ANT162442DT-2001A2)

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2412 MHz
 Test Date: 2024-03-07



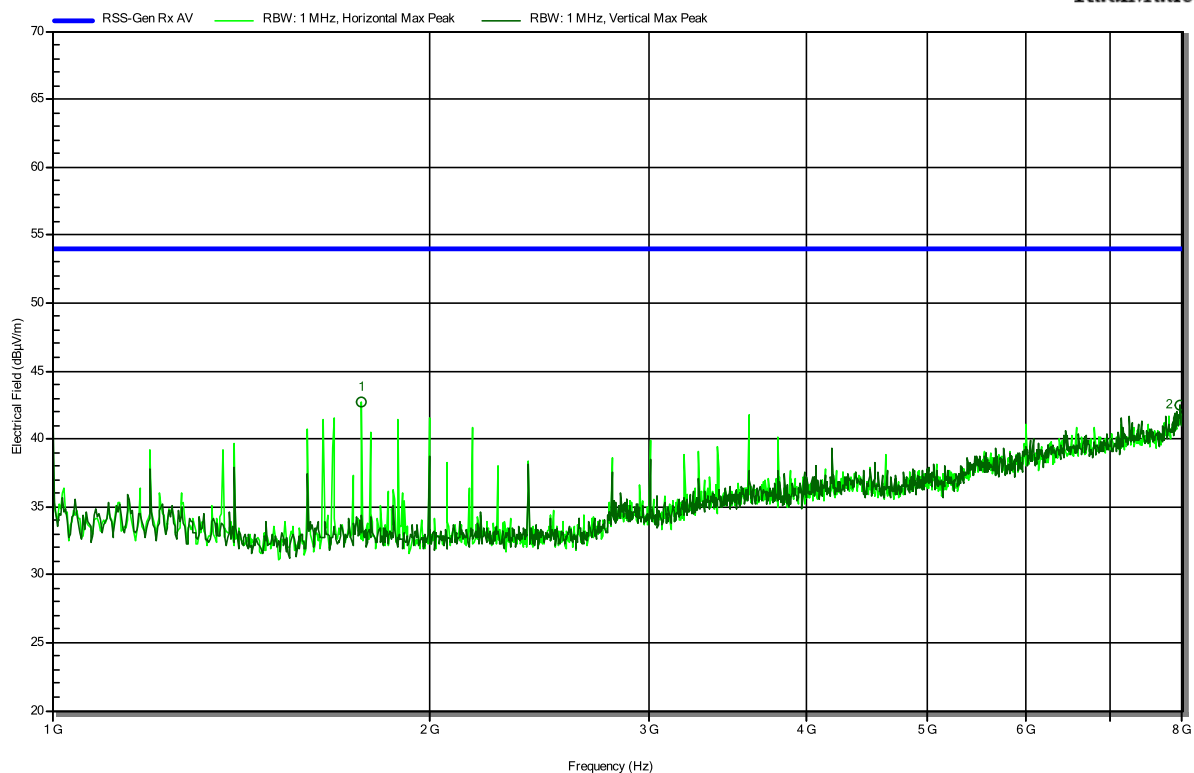
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.018 GHz	44.01 dBµV/m	53.98 dBµV/m	-9.97 dB	Pass	Vertical
1.6 GHz	41.6 dBµV/m	53.98 dBµV/m	-12.38 dB	Pass	Horizontal

Radiated Spurious Emissions according to 47 CFR Part 15.247

Project Number: G0M-2309-2215
 Applicant: Panasonic Industrial Devices Europe GmbH
 Model Description: Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
 Model: ENWF9511C1KF
 Test Sample ID: 46897
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Siddique
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 21 °Celsius, Vnom:
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Rx; IEEE 802.11ax, 2462 MHz
 Test Date: 2024-03-07

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.768 GHz	42.74 dBµV/m	53.98 dBµV/m	-11.24 dB	Pass	Horizontal
7.964 GHz	42.43 dBµV/m	53.98 dBµV/m	-11.55 dB	Pass	Vertical

== END OF TEST REPORT ==