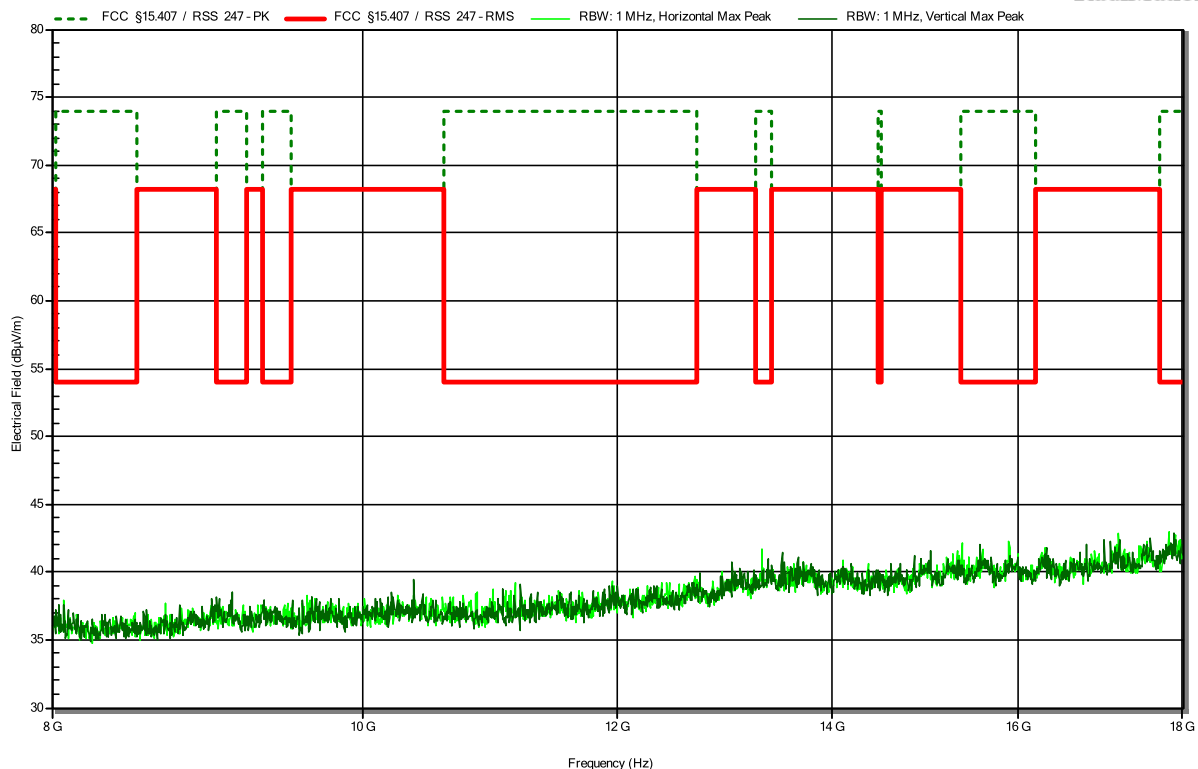


Radiated Spurious Emissions according to 47 CFR Part 15.407

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: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5180 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

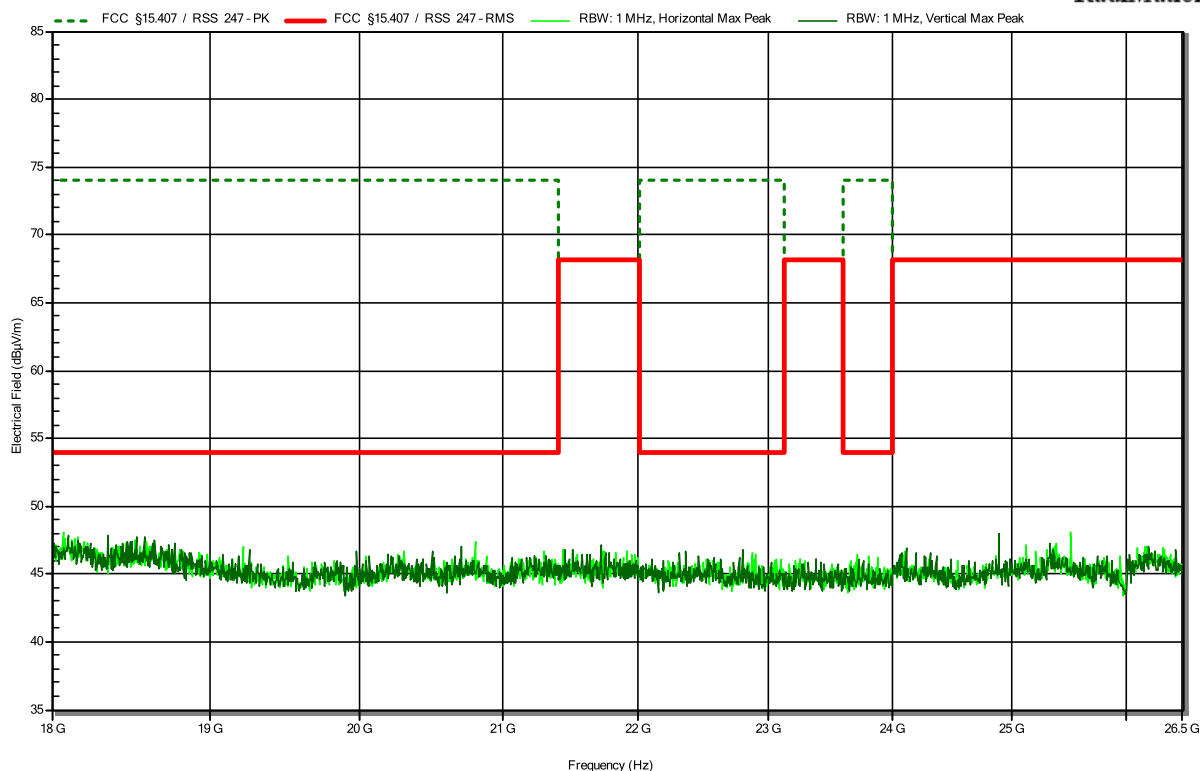


Radiated Spurious Emissions according to 47 CFR Part 15.407

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: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5180 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

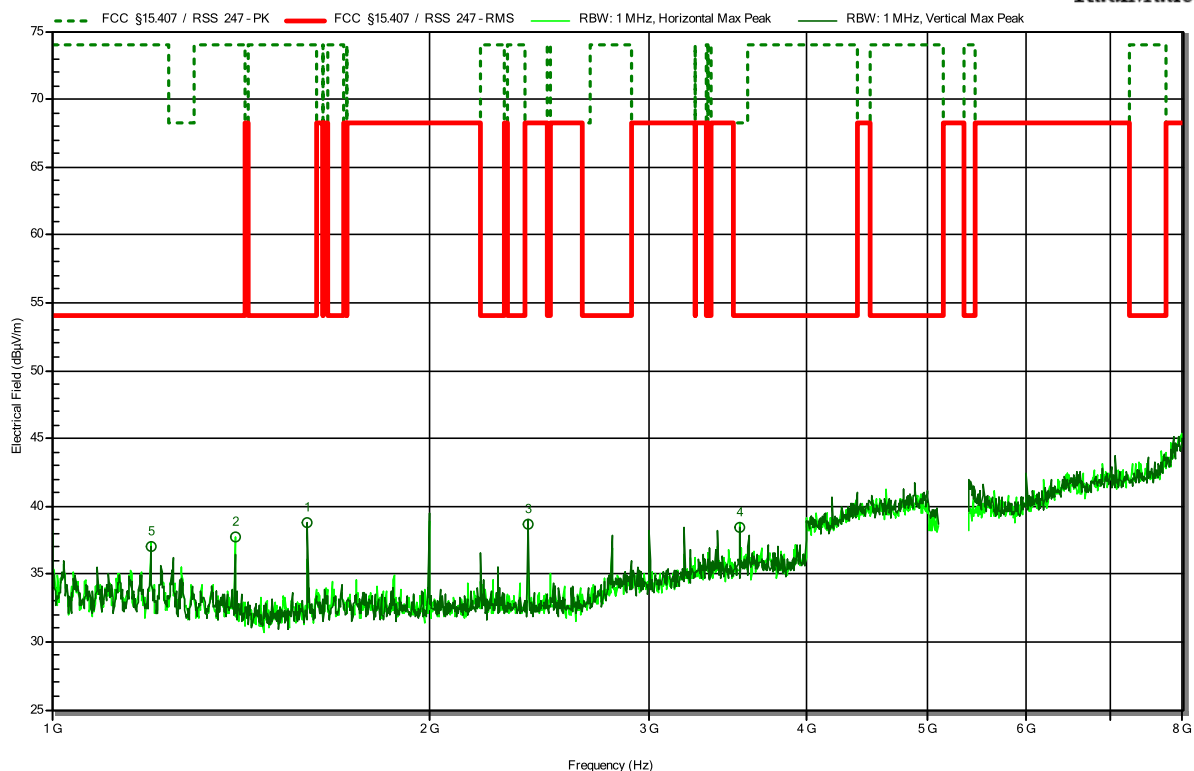


Radiated Spurious Emissions according to 47 CFR Part 15.407

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: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5310 MHz, RU-56 (106tones)
 Test Date: 2024-02-24
 Note:

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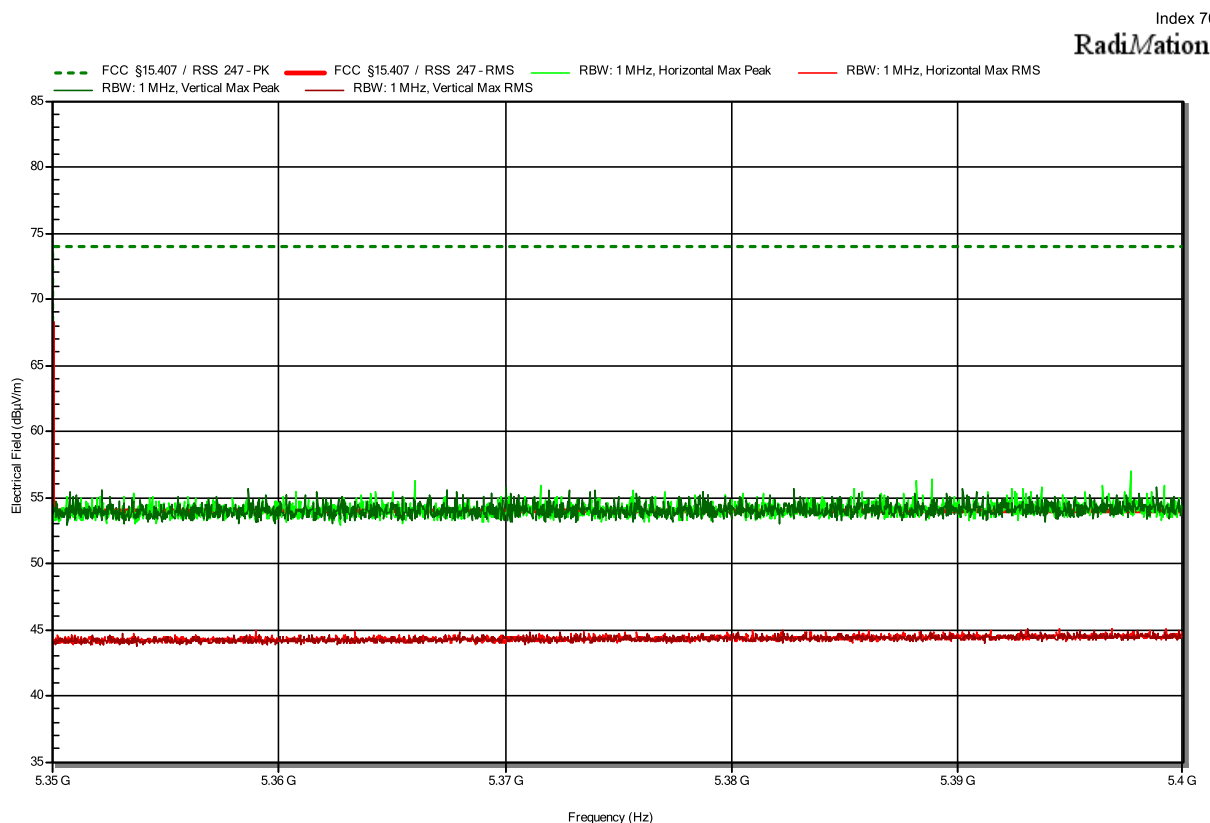
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.2 GHz	37.02 dBµV/m	74 dBµV/m	-36.98 dB	Pass	Vertical
1.4 GHz	37.72 dBµV/m	74 dBµV/m	-36.28 dB	Pass	Horizontal
1.6 GHz	38.74 dBµV/m	74 dBµV/m	-35.26 dB	Pass	Vertical
2.4 GHz	38.62 dBµV/m	68.2 dBµV/m	-29.58 dB	Pass	Vertical
3.54 GHz	38.48 dBµV/m	68.2 dBµV/m	-29.72 dB	Pass	Vertical

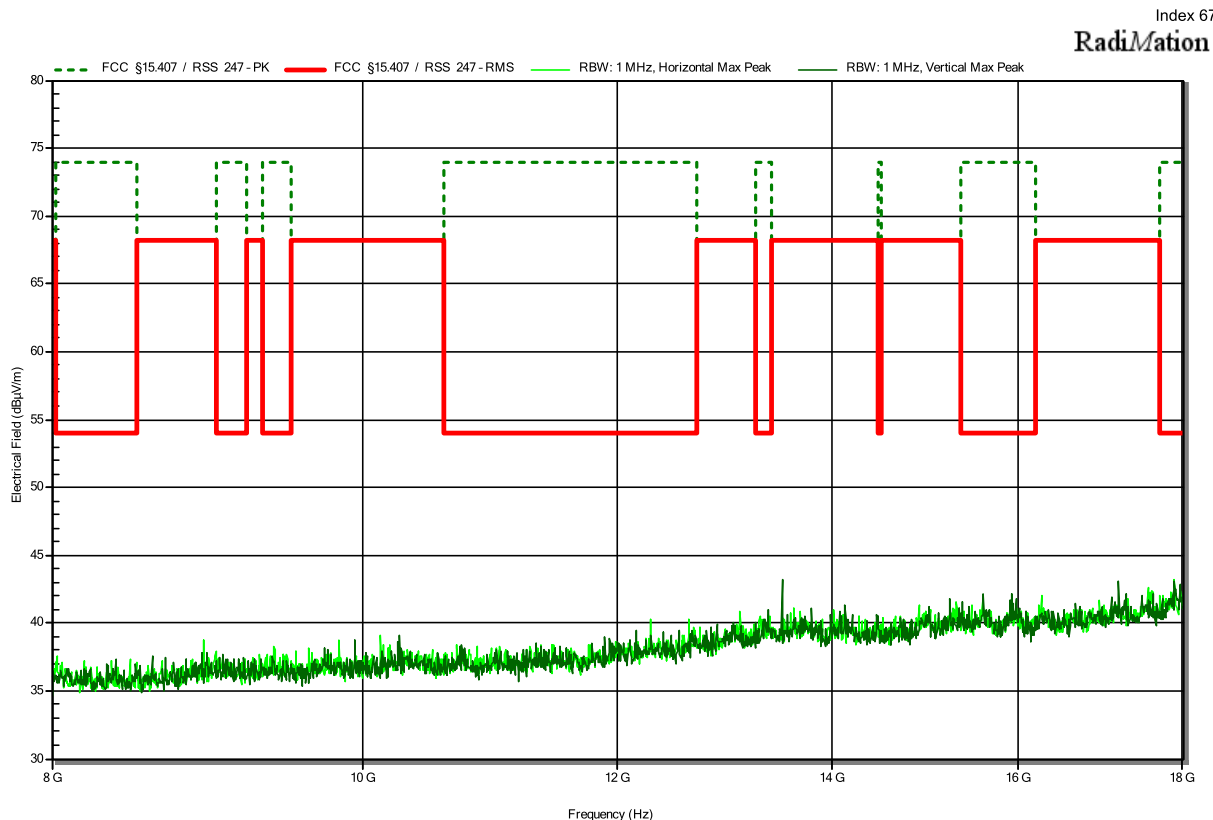
Radiated Spurious Emissions according to 47 CFR Part 15.407

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: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5310 MHz, RU-56 (106tones)
 Test Date: 2024-02-26
 Note: lower band area



Radiated Spurious Emissions according to 47 CFR Part 15.407

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: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5310 MHz, RU-56 (106tones)
 Test Date: 2024-02-24
 Note:

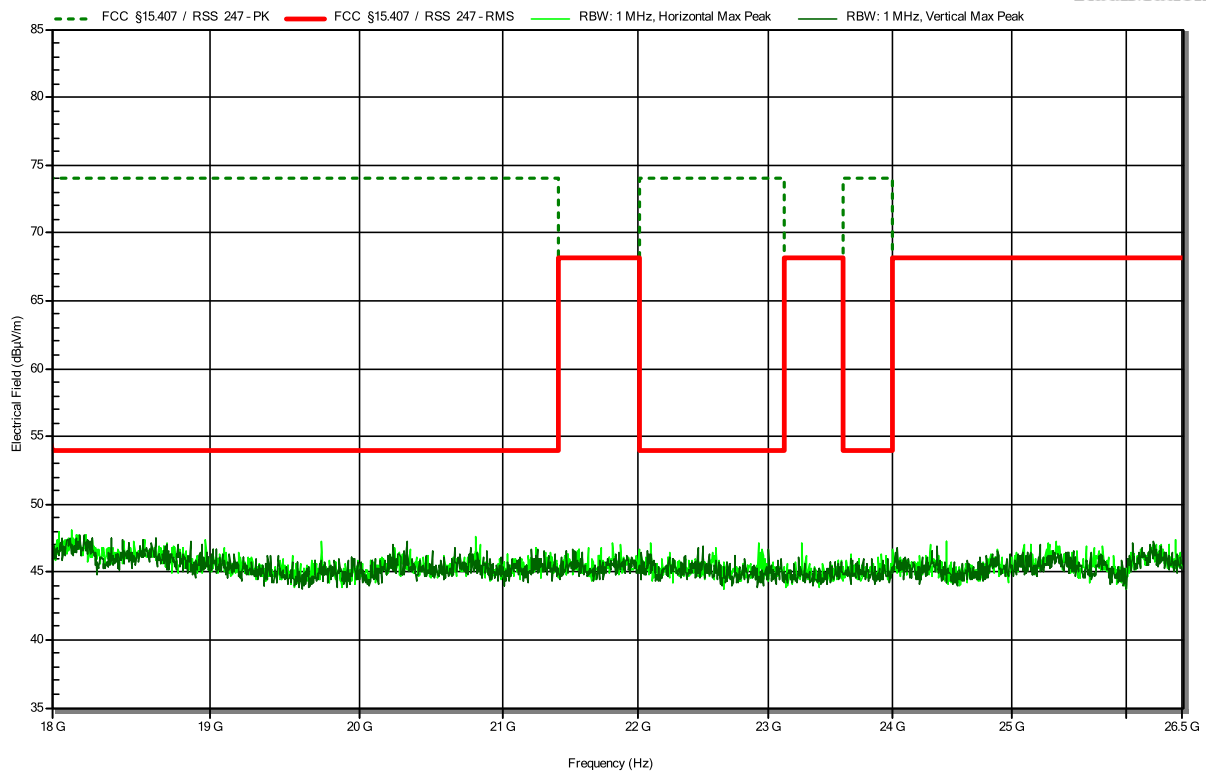


Radiated Spurious Emissions according to 47 CFR Part 15.407

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: 47713
 Test Site: Eurofins Product Service GmbH
 Operator: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE40-TB, 5310 MHz, RU-56 (106tones)
 Test Date: 2024-02-24
 Note:

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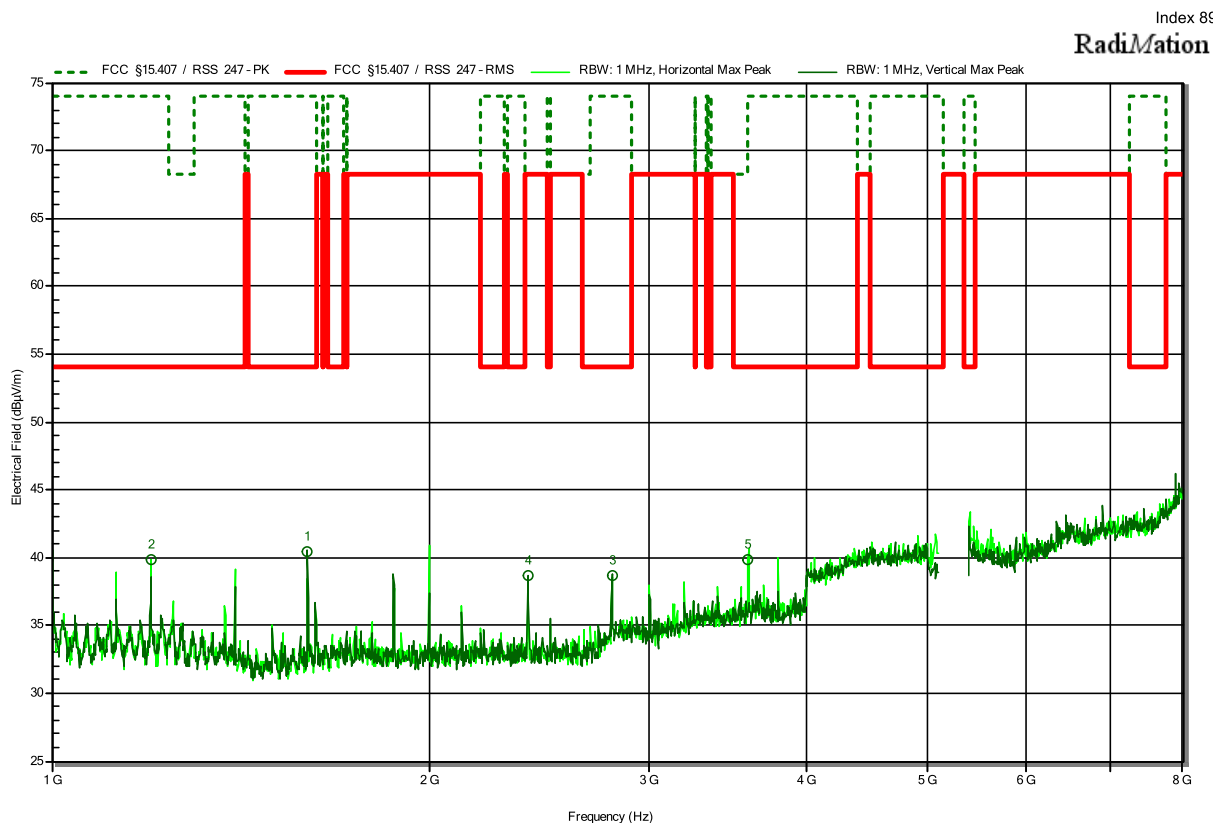
RadiMation



ANNEX C Transmitter spurious emissions with TDK antenna

Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE-20 SU-ER, 5320 MHz
 Test Date: 2024-02-26
 Note:



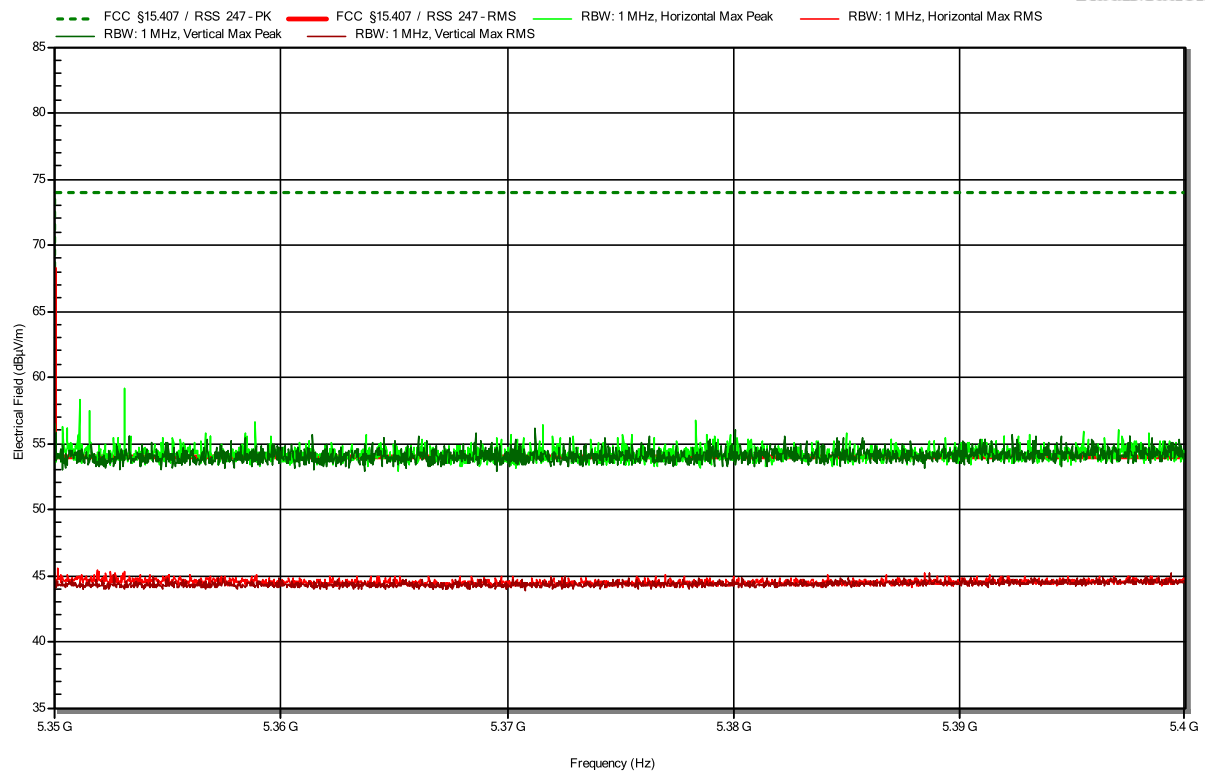
Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.2 GHz	39.85 dBµV/m	74 dBµV/m	-34.15 dB	Pass	Horizontal
1.6 GHz	40.4 dBµV/m	74 dBµV/m	-33.6 dB	Pass	Vertical
2.4 GHz	38.65 dBµV/m	68.2 dBµV/m	-29.55 dB	Pass	Vertical
2.8 GHz	38.72 dBµV/m	74 dBµV/m	-35.28 dB	Pass	Vertical
3.6 GHz	39.9 dBµV/m	68.2 dBµV/m	-28.3 dB	Pass	Horizontal

Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE-20 SU-ER, 5320 MHz
 Test Date: 2024-02-26
 Note: lower band area

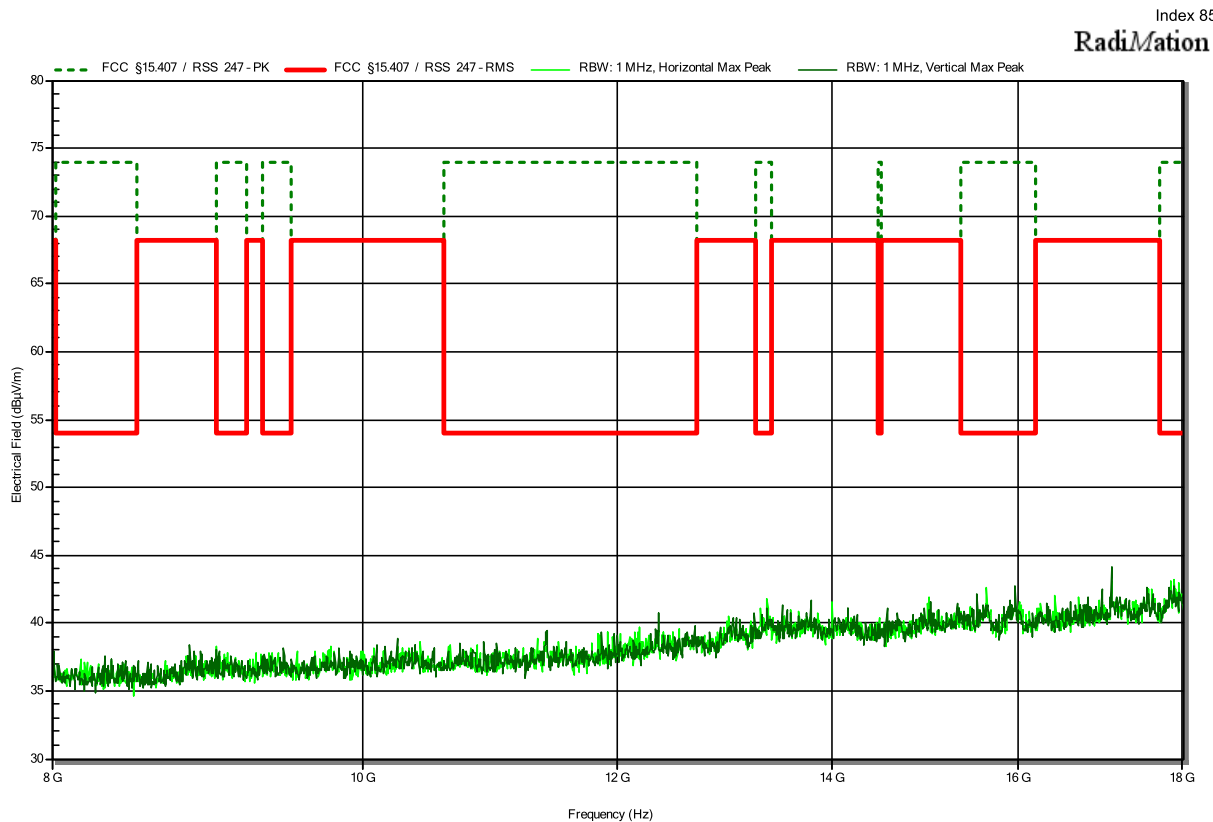
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RadiMation



Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE20-SU ER, 5320 MHz
 Test Date: 2024-02-24
 Note:

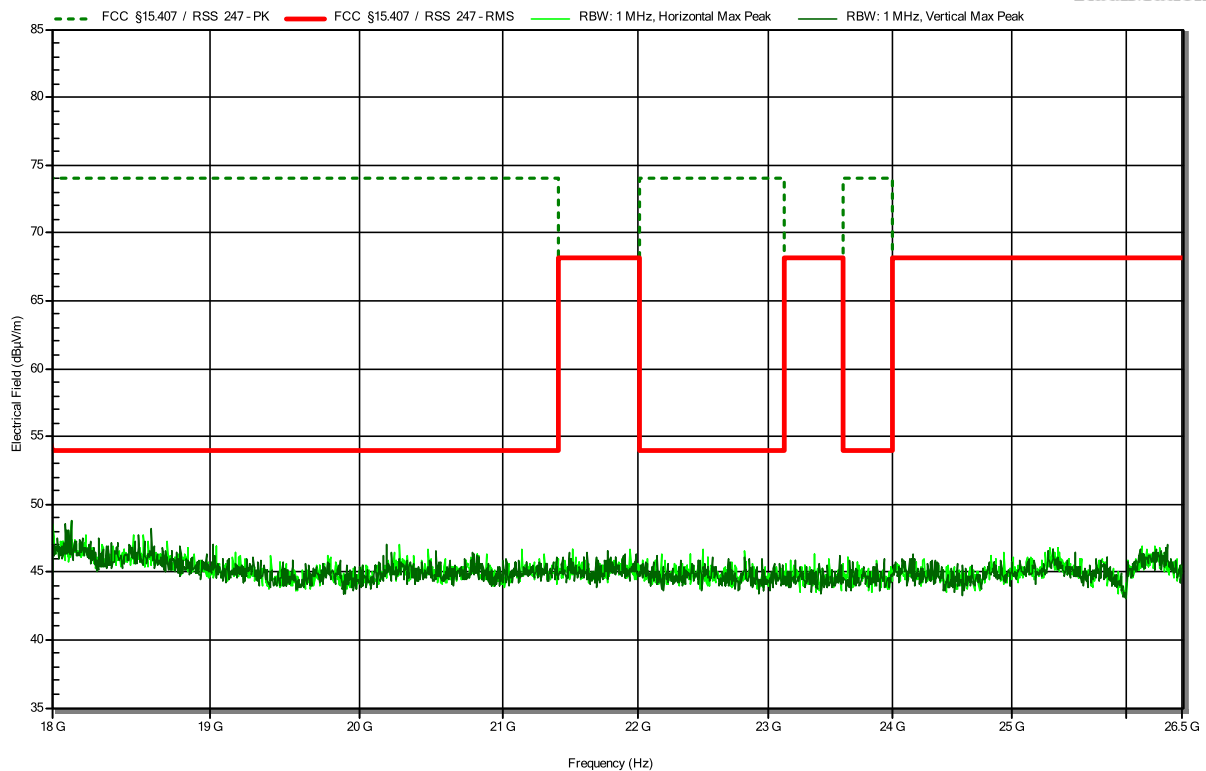


Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HES0-SU ER, 5320 MHz
 Test Date: 2024-02-24
 Note:

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RadiMation

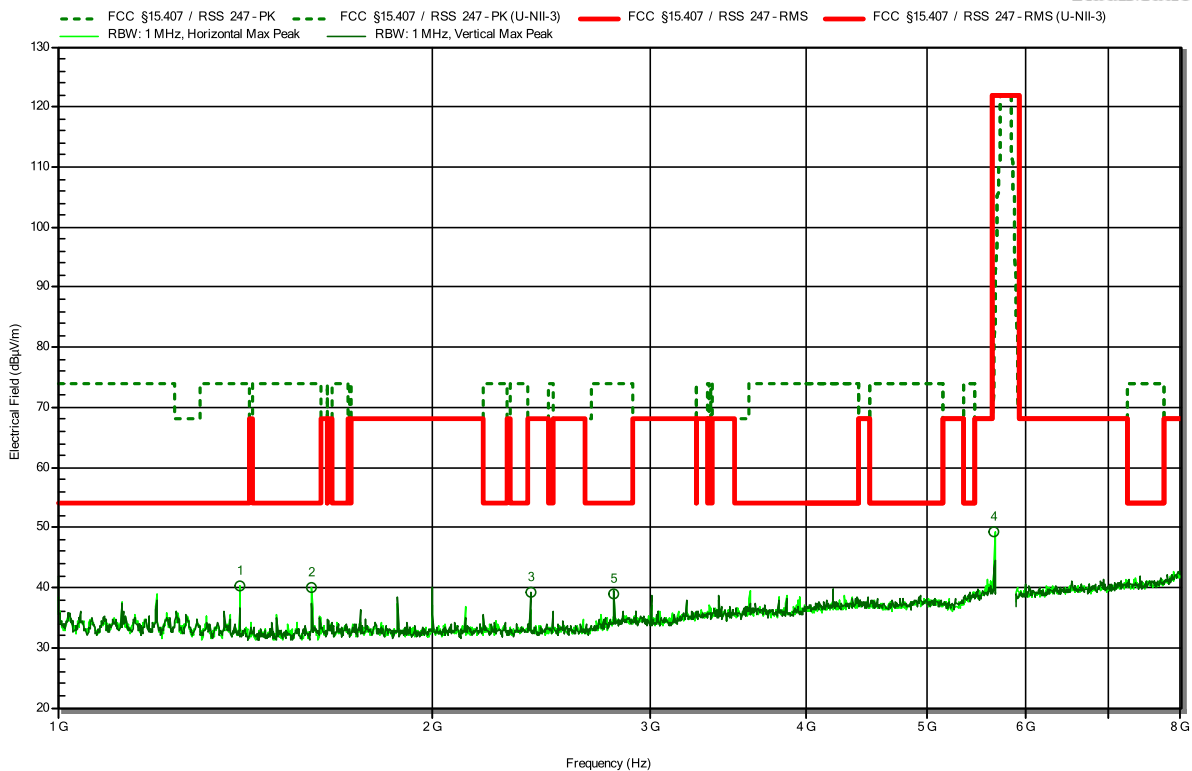


Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5775 MHz, RU-37 (52tones)
 Test Date: 2024-02-24
 Note:

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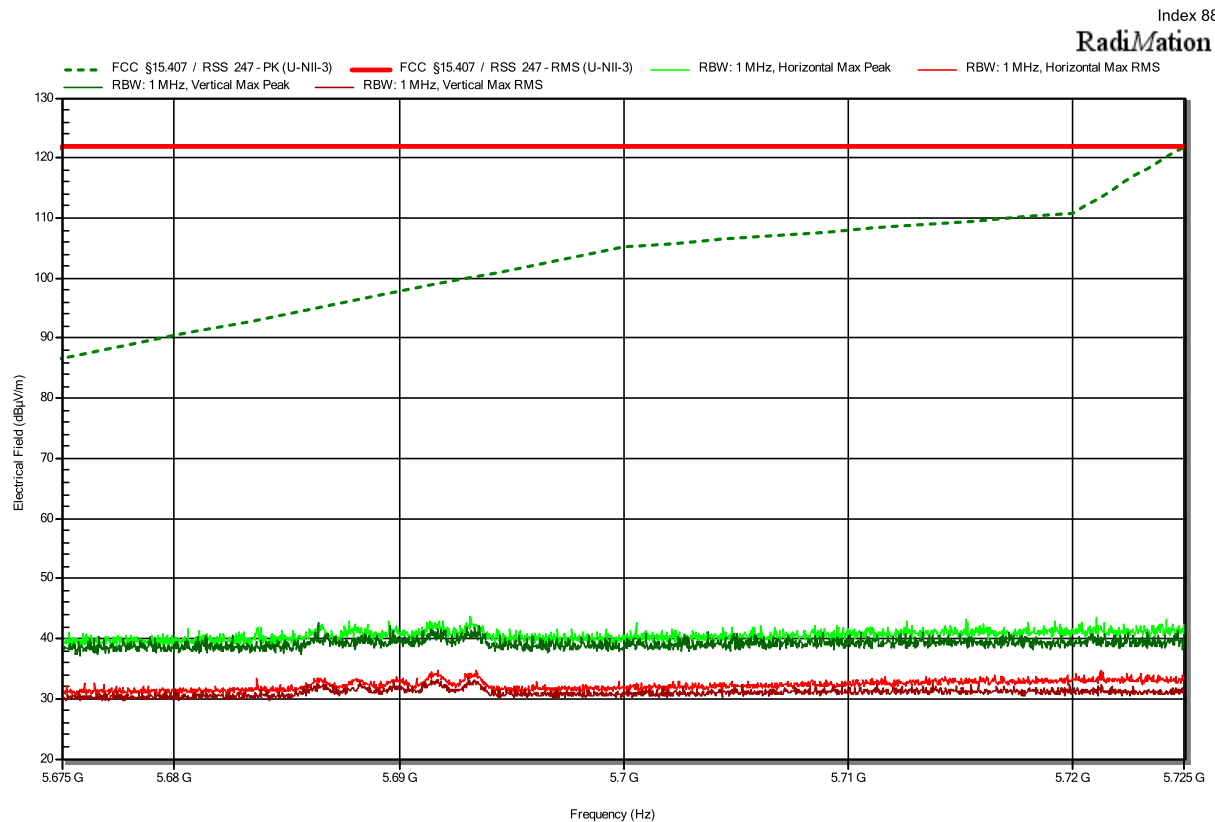
RadiMation



Frequency	Peak	Peak Limit	Peak Difference	Peak Status	Polarization
1.4 GHz	40.21 dBµV/m	74 dBµV/m	-33.79 dB	Pass	Horizontal
1.6 GHz	39.96 dBµV/m	74 dBµV/m	-34.04 dB	Pass	Horizontal
2.4 GHz	39.2 dBµV/m	68.2 dBµV/m	-29 dB	Pass	Vertical
2.8 GHz	38.97 dBµV/m	74 dBµV/m	-35.03 dB	Pass	Vertical
5.662 GHz	49.23 dBµV/m	77.45 dBµV/m	-28.21 dB	Pass	Horizontal

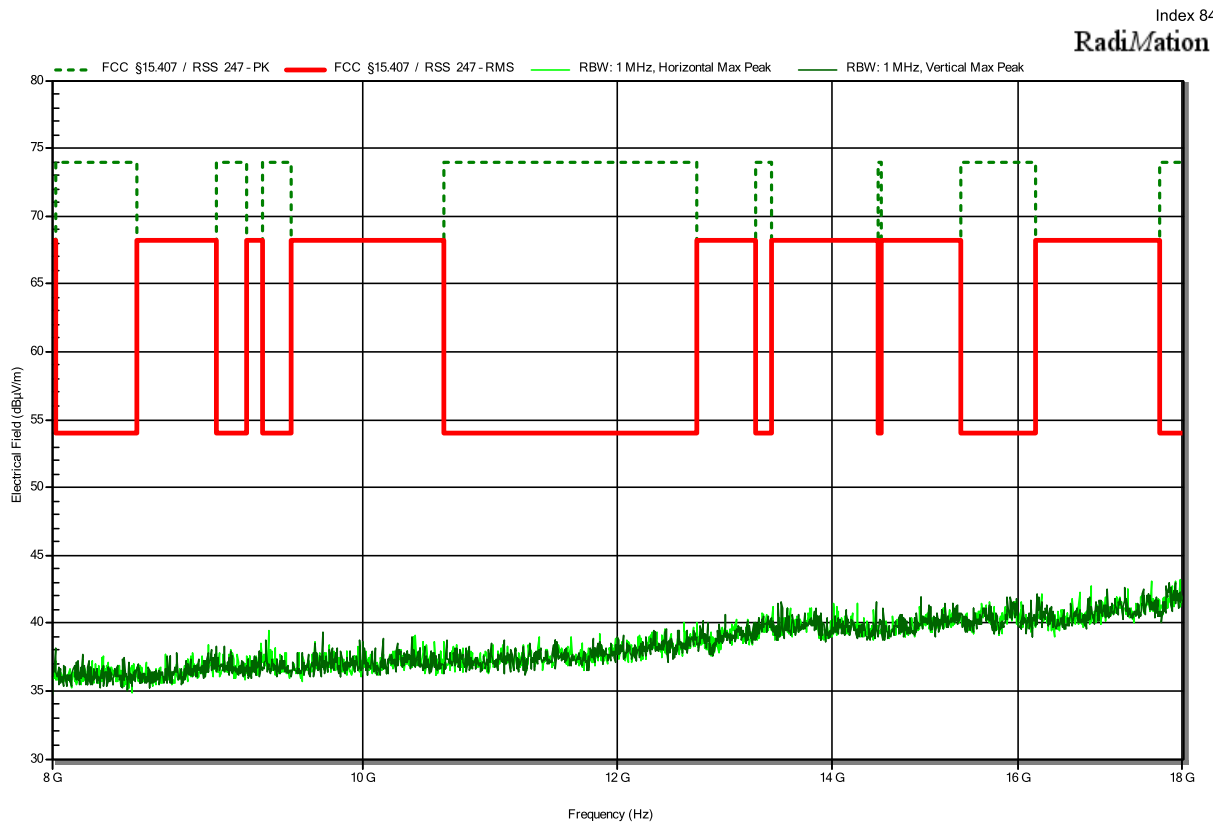
Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck BBHA 9120B
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE-80 MU, 5775 MHz
 Test Date: 2024-02-26
 Note: lower band area



Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Schwarzbeck HWRD 650
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5775 MHz, RU-37 (52tones)
 Test Date: 2024-02-24
 Note:

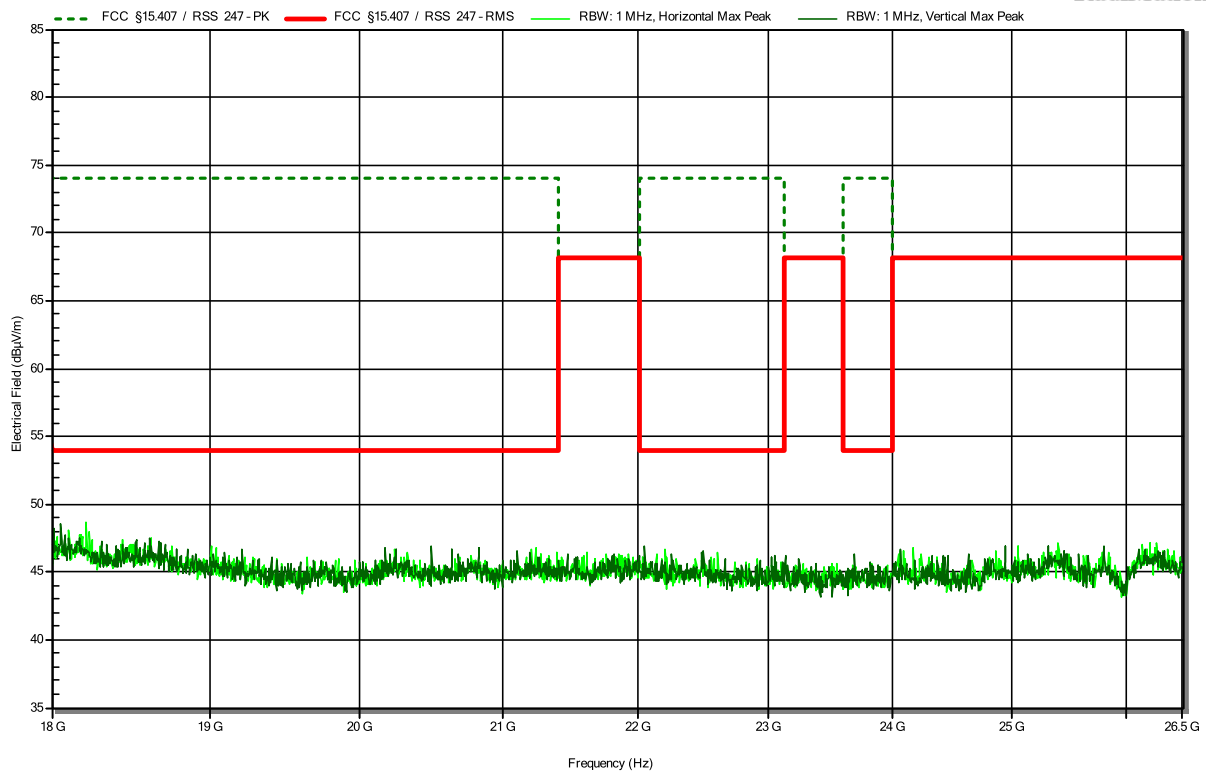


Radiated Spurious Emissions according to FCC 47 e-CFR § 15.407

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: Ibraimov Azamat
 Measurement software: RadiMation, version 2020.1.8
 Test Conditions: Tnom: 24 °Celsius, Vnom: 1.8/3.3
 Antenna: Amplifier Research AT4560
 Measurement distance: 3 m
 Mode: Tx; IEEE 802.11ax, HE80-TB, 5785 MHz, RU-37 (52tones)
 Test Date: 2024-02-24
 Note:

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RadiMation



== = END OF TEST REPORT = = =