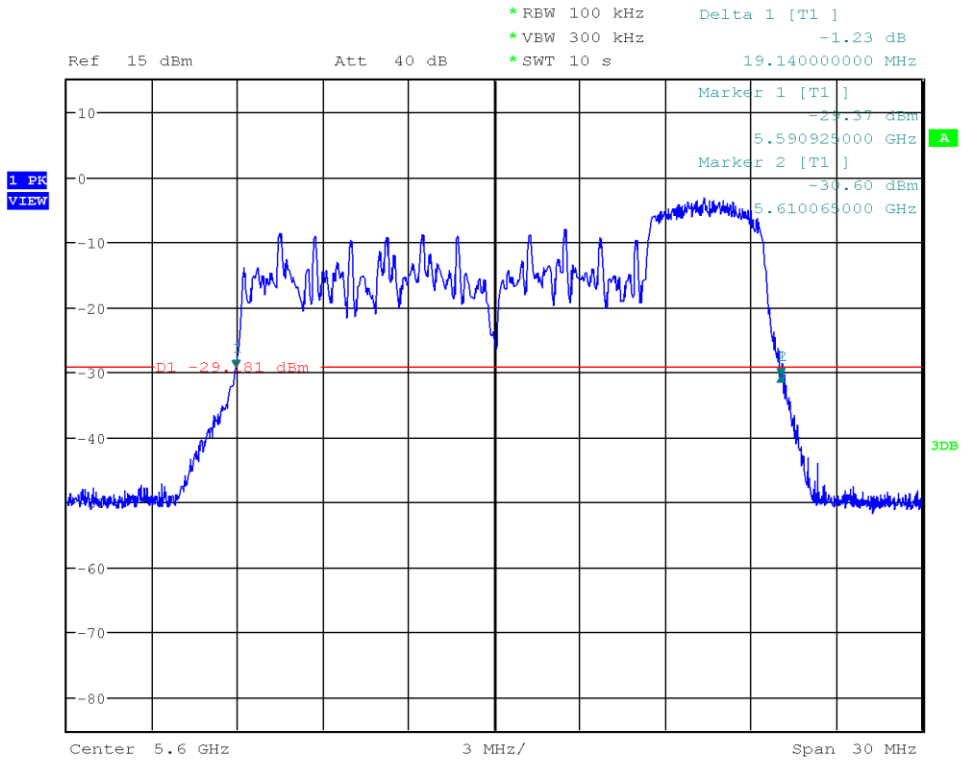
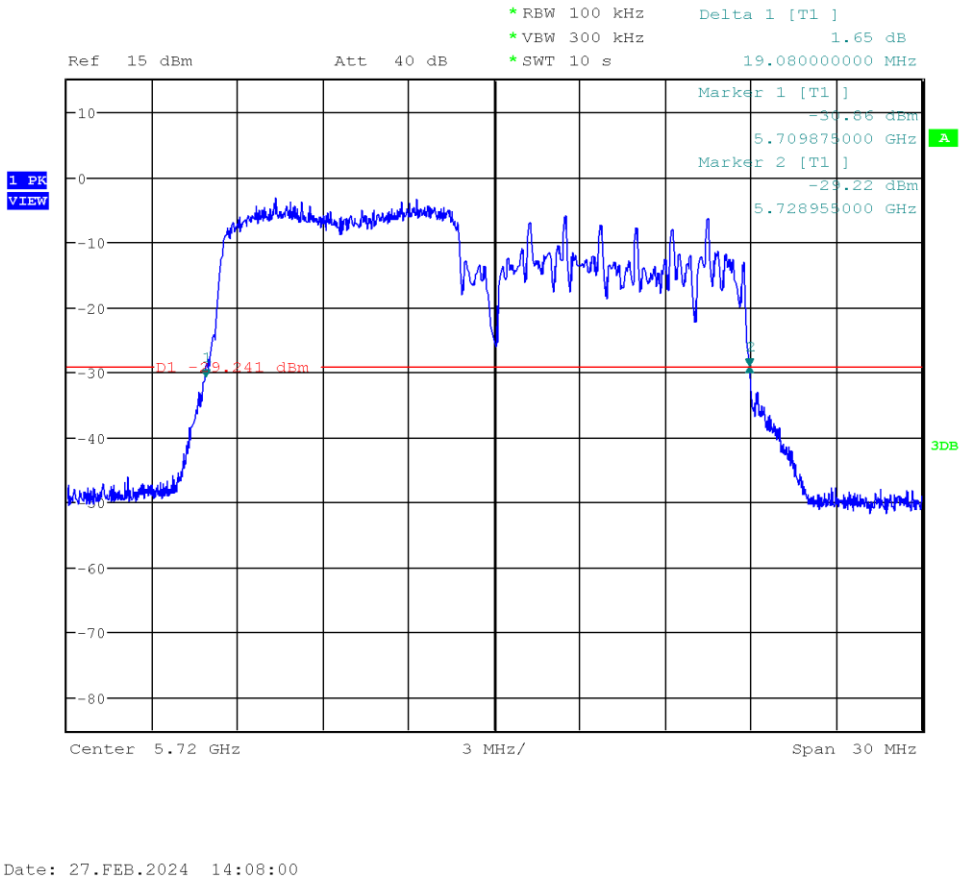
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	52 tones
Lower Frequency [MHz]:	5590.925
Upper Frequency [MHz]:	5610.065
26 dB Bandwidth [MHz]:	19.140



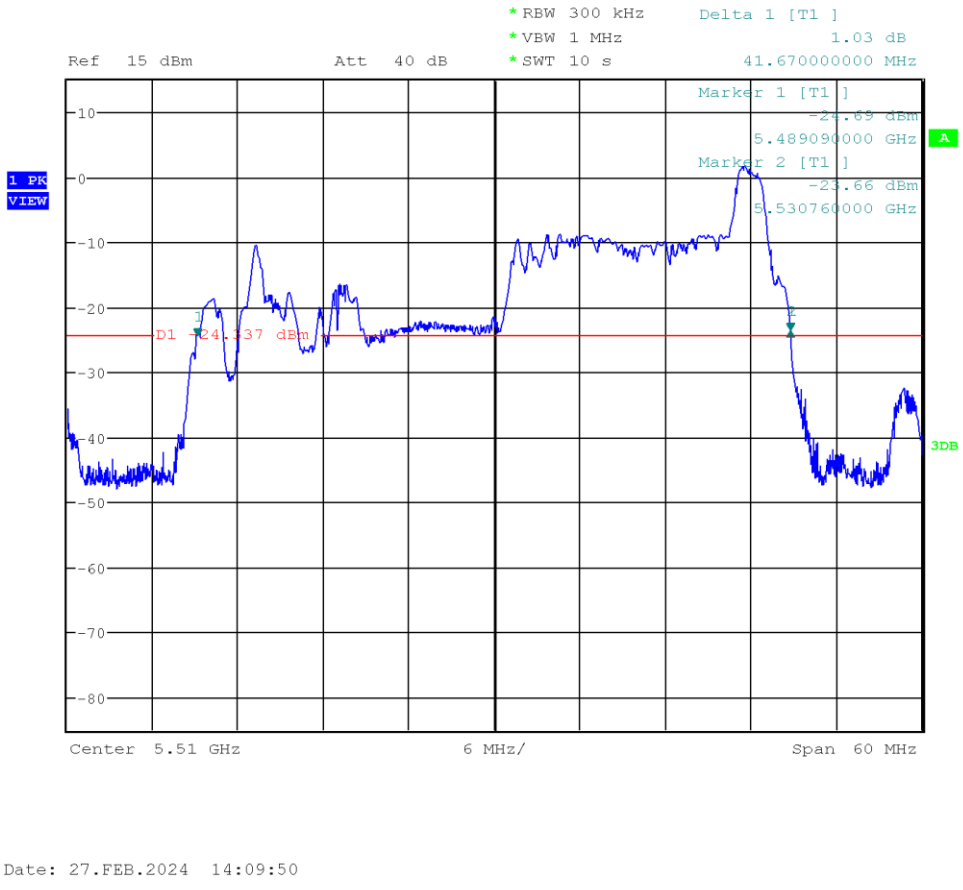
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 144, 5720 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5709.875
Upper Frequency [MHz]:	5728.955
26 dB Bandwidth [MHz]:	19.080



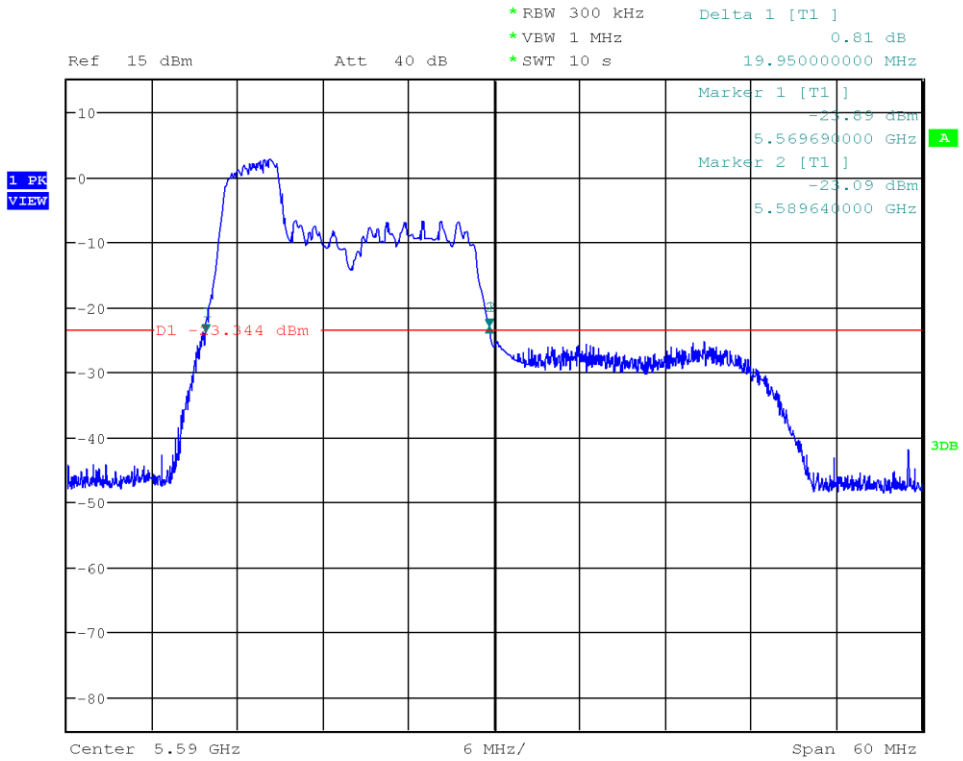
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 102, 5510 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	26 tones
Lower Frequency [MHz]:	5489.090
Upper Frequency [MHz]:	5530.760
26 dB Bandwidth [MHz]:	41.670



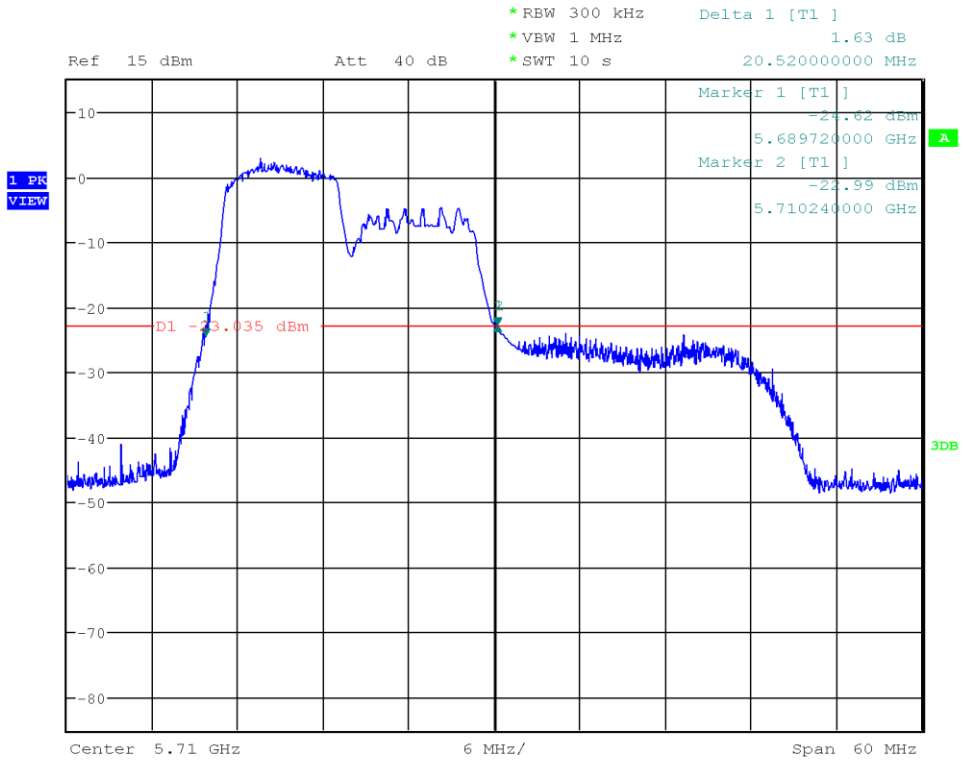
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 118, 5590 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	52 tones
Lower Frequency [MHz]:	5569.690
Upper Frequency [MHz]:	5589.640
26 dB Bandwidth [MHz]:	19.950



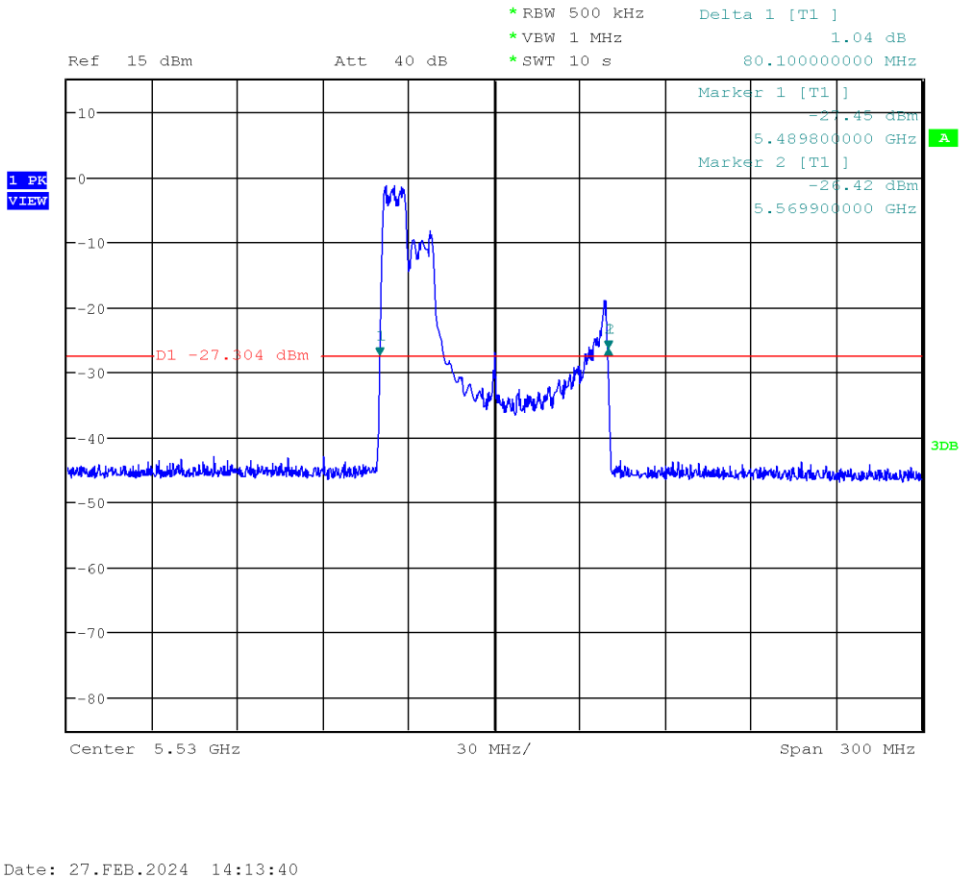
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 142, 5710 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5689.720
Upper Frequency [MHz]:	5710.240
26 dB Bandwidth [MHz]:	20.520



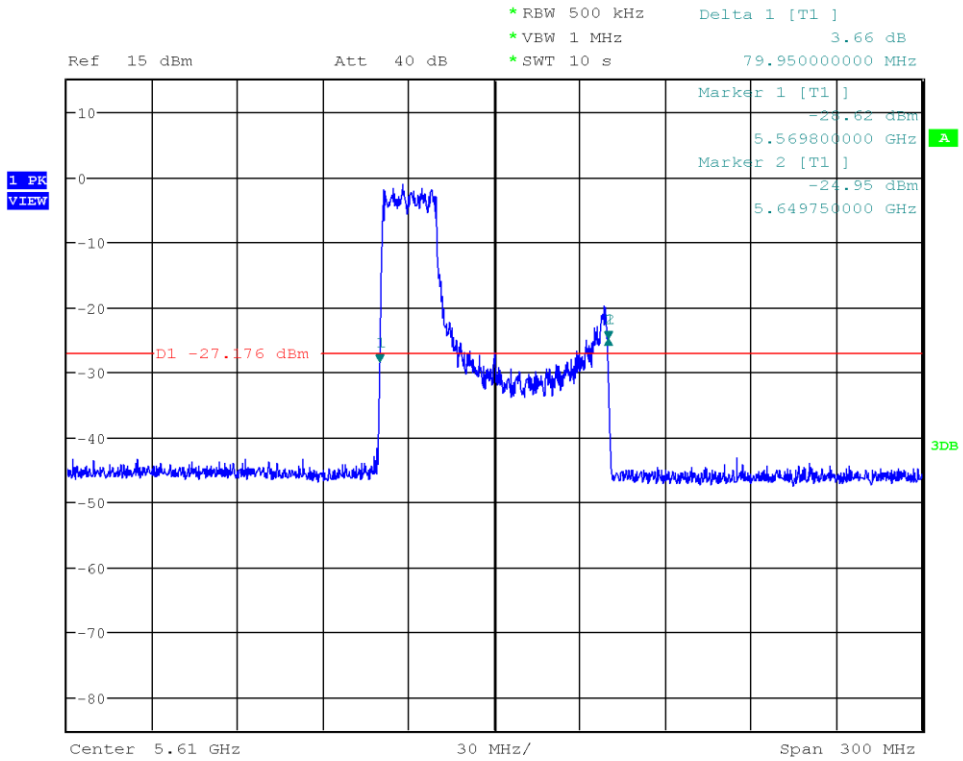
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 106, 5530 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5489.800
Upper Frequency [MHz]:	5569.900
26 dB Bandwidth [MHz]:	80.100



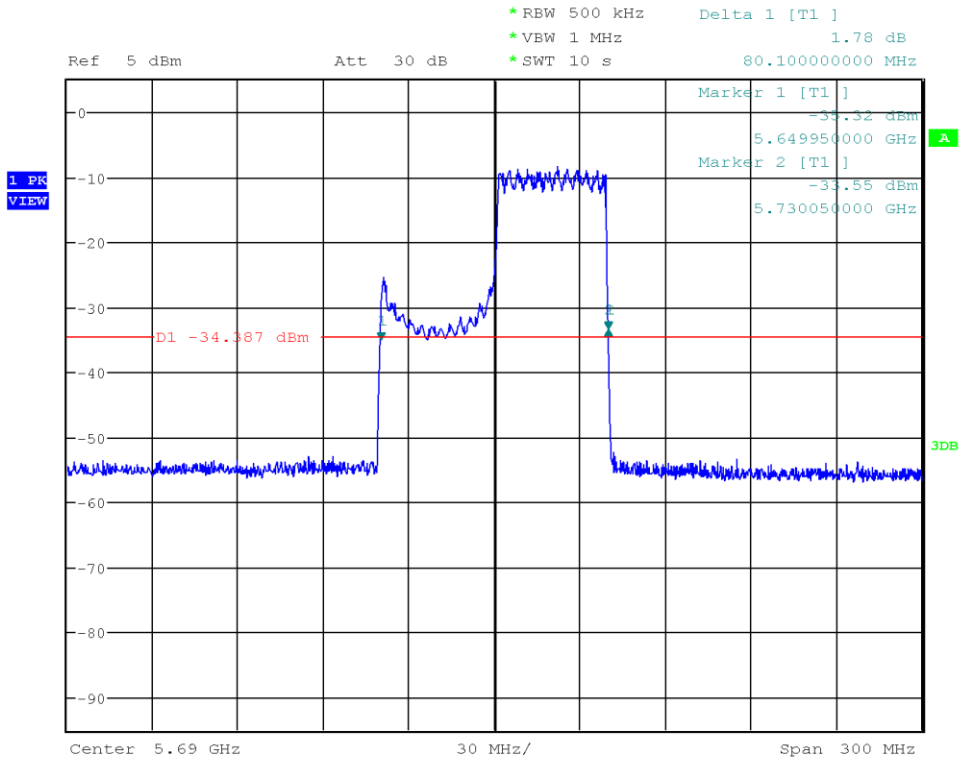
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 122, 5610 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	224 tones
Lower Frequency [MHz]:	5569.800
Upper Frequency [MHz]:	5649.750
26 dB Bandwidth [MHz]:	79.950



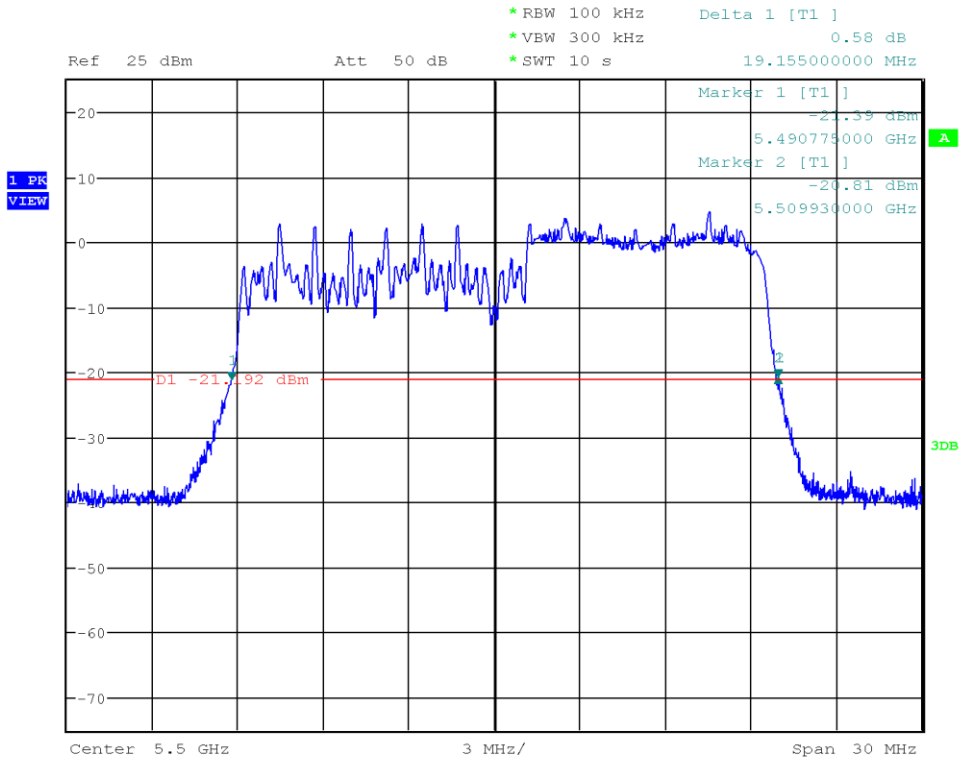
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 138, 5690 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	481 tones
Lower Frequency [MHz]:	5649.950
Upper Frequency [MHz]:	5730.050
26 dB Bandwidth [MHz]:	80.100



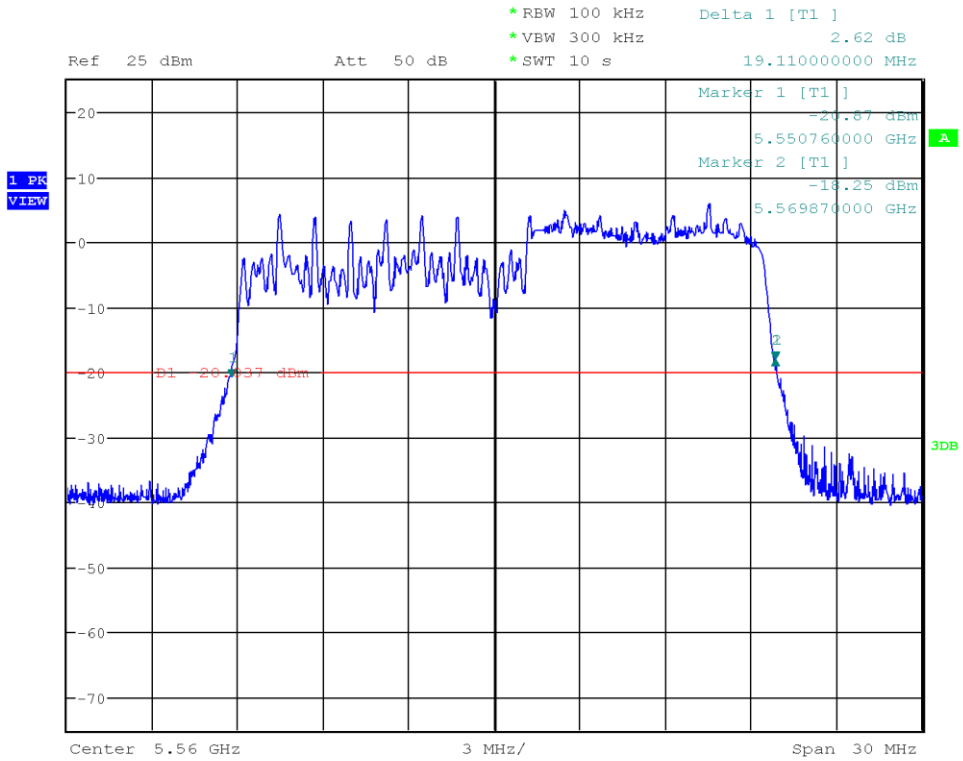
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5490.775
Upper Frequency [MHz]:	5509.930
26 dB Bandwidth [MHz]:	19.155



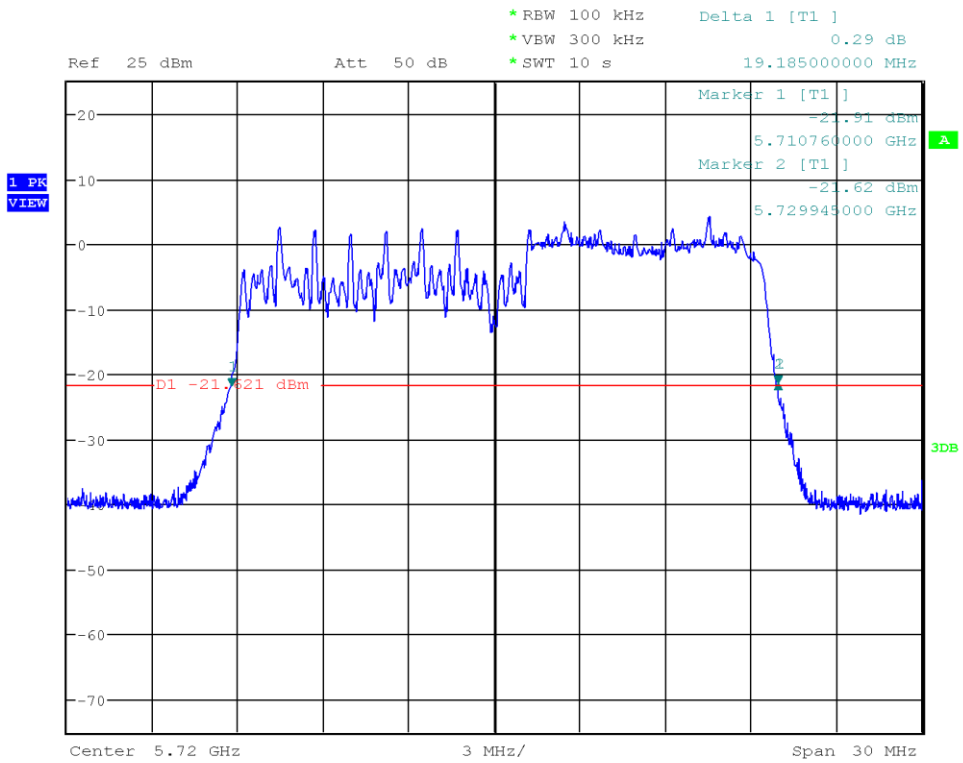
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 112, 5560 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5550.760
Upper Frequency [MHz]:	5569.870
26 dB Bandwidth [MHz]:	19.110



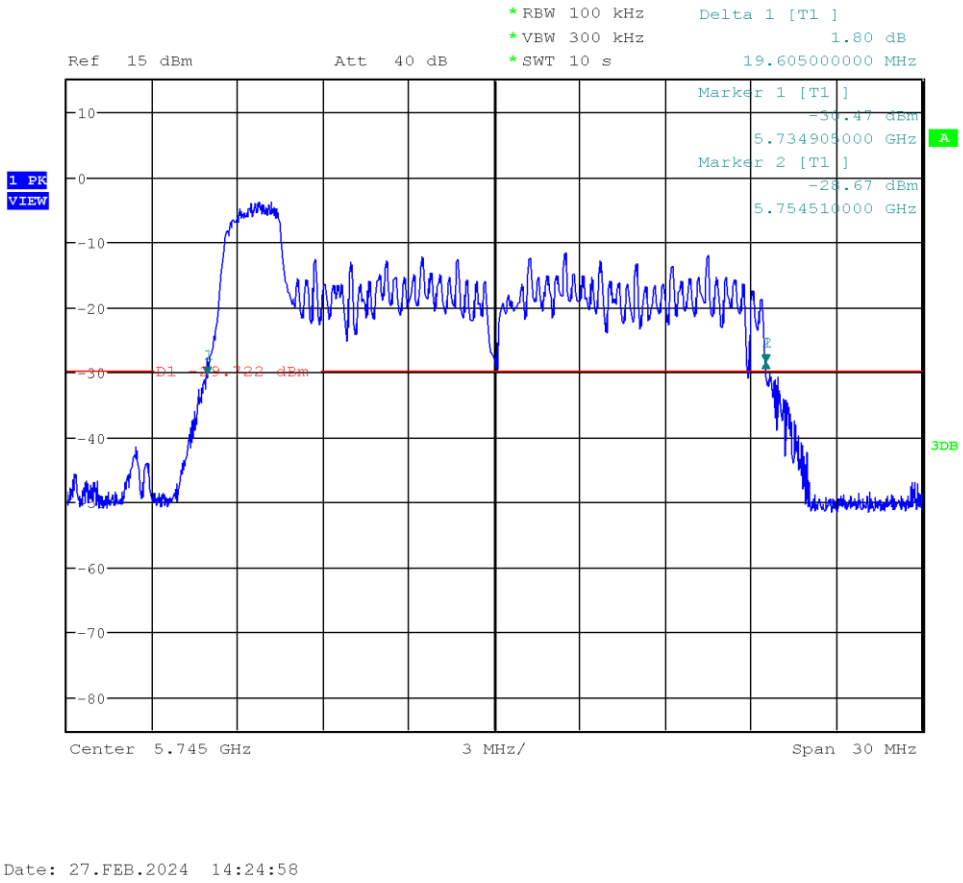
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 144, 5720 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5710.760
Upper Frequency [MHz]:	5729.945
26 dB Bandwidth [MHz]:	19.185



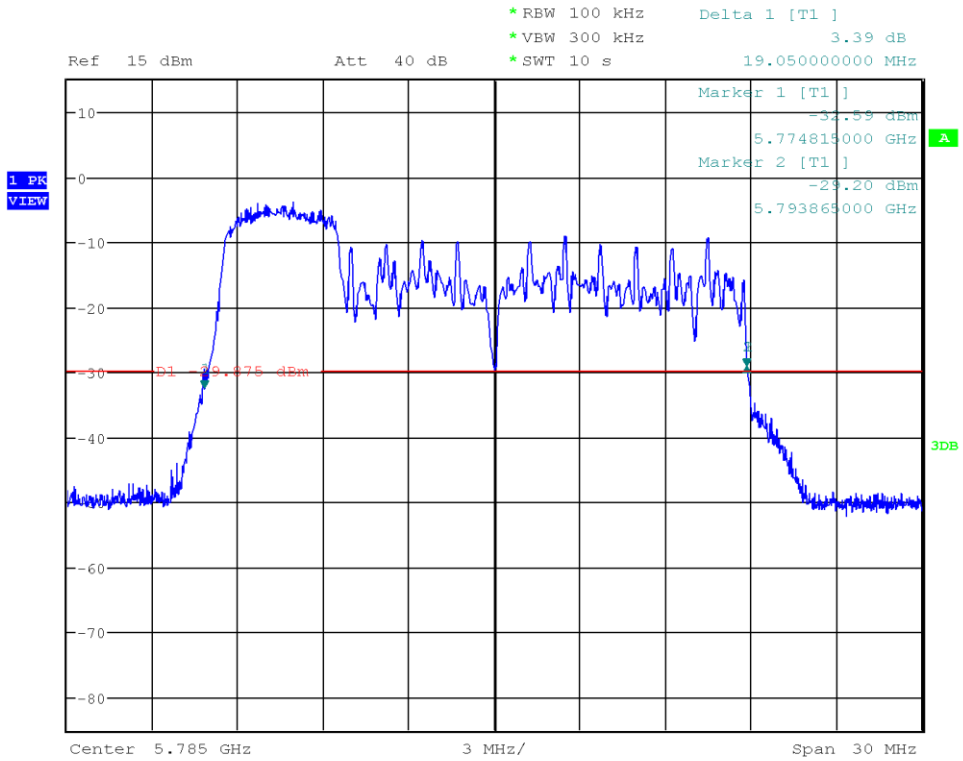
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 149, 5745 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	26 tones
Lower Frequency [MHz]:	5734.905
Upper Frequency [MHz]:	5754.510
26 dB Bandwidth [MHz]:	19.605



26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	52 tones
Lower Frequency [MHz]:	5774.815
Upper Frequency [MHz]:	5793.865
26 dB Bandwidth [MHz]:	19.050



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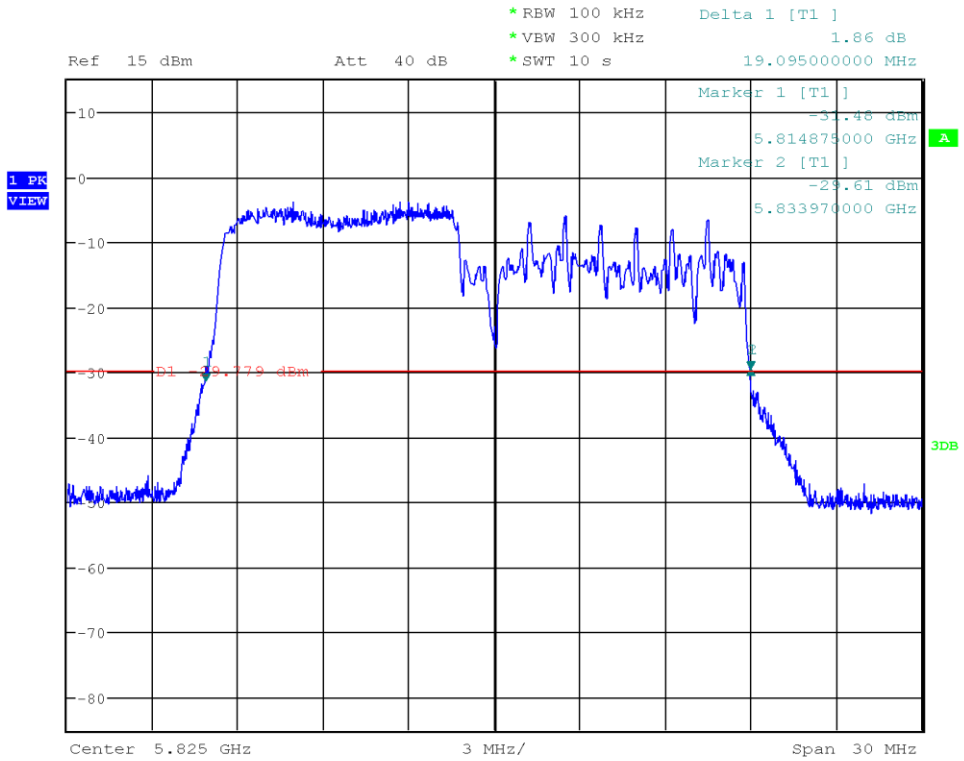
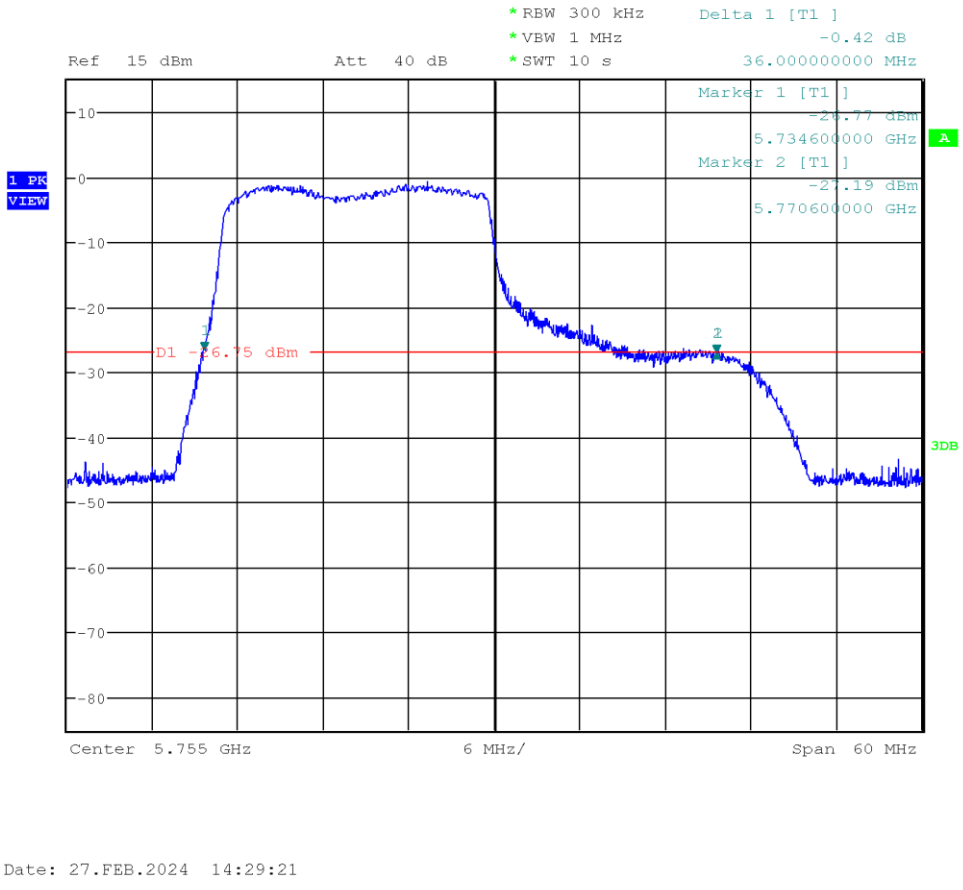
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5814.875
Upper Frequency [MHz]:	5833.970
26 dB Bandwidth [MHz]:	19.095



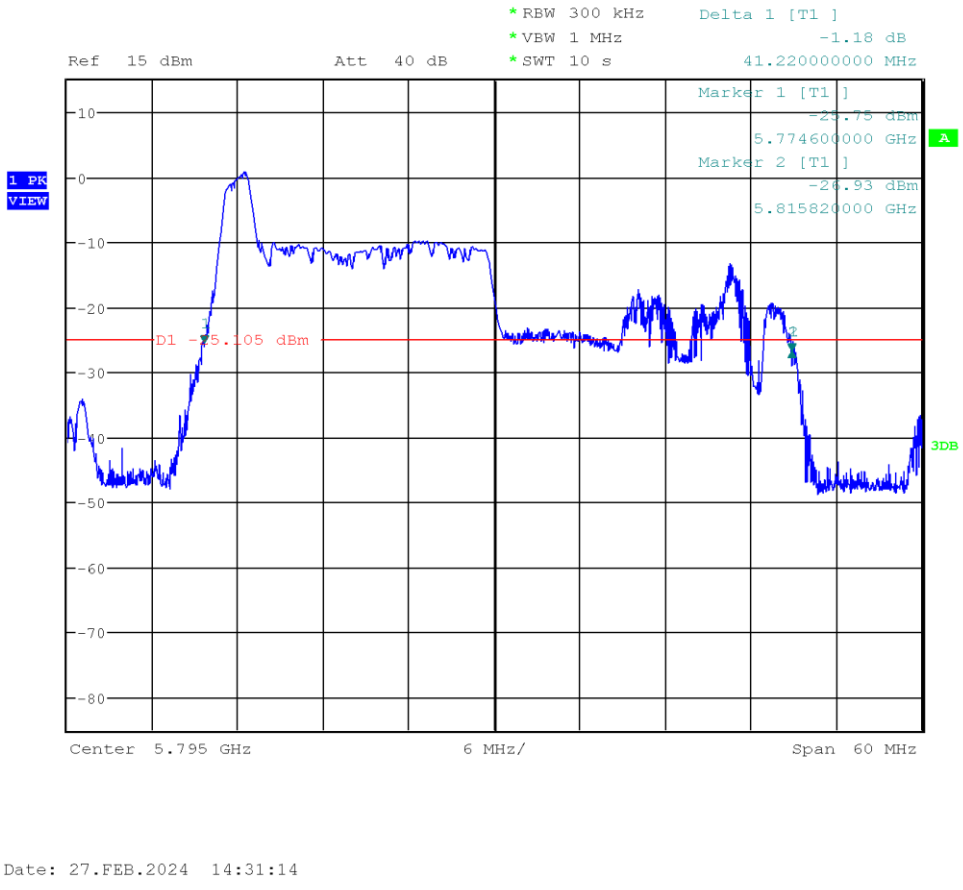
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 151, 5755 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	224 tones
Lower Frequency [MHz]:	5734.600
Upper Frequency [MHz]:	5770.600
26 dB Bandwidth [MHz]:	36.000



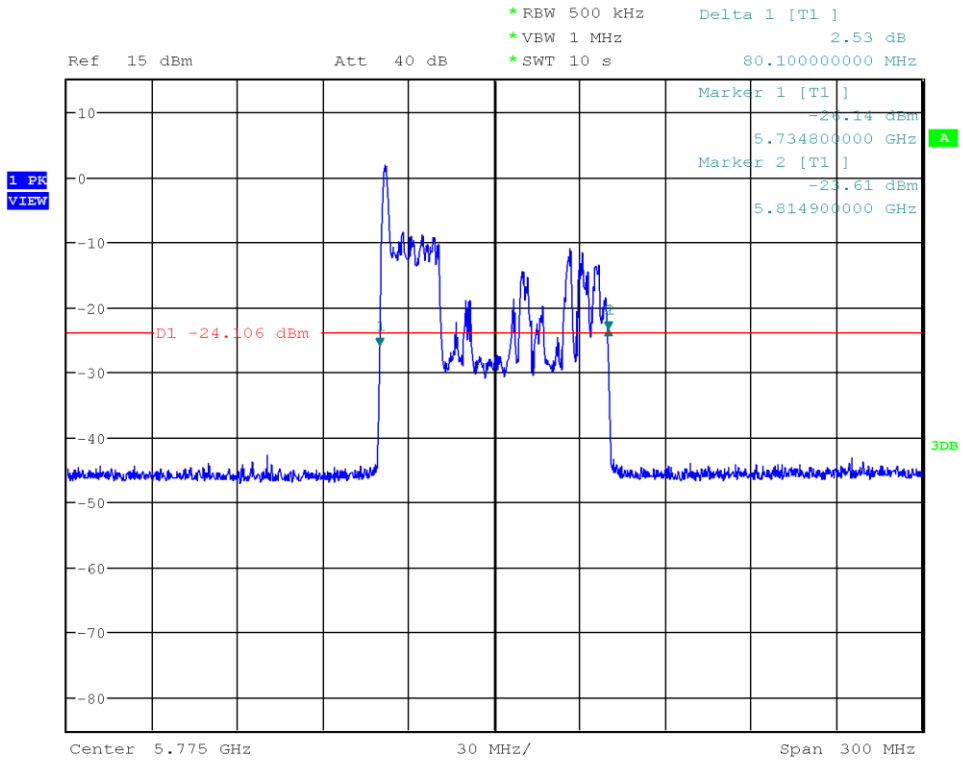
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 159, 5795 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	26 tones
Lower Frequency [MHz]:	5774.600
Upper Frequency [MHz]:	5815.820
26 dB Bandwidth [MHz]:	41.220



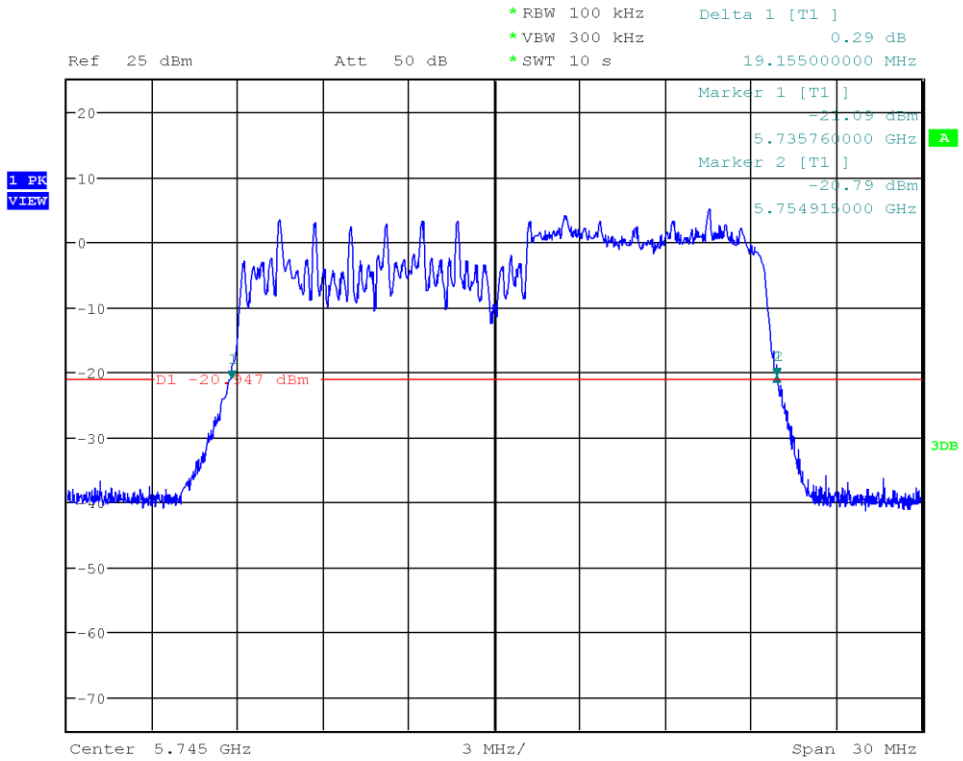
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 155, 5775 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	26 tones
Lower Frequency [MHz]:	5734.800
Upper Frequency [MHz]:	5814.900
26 dB Bandwidth [MHz]:	80.100



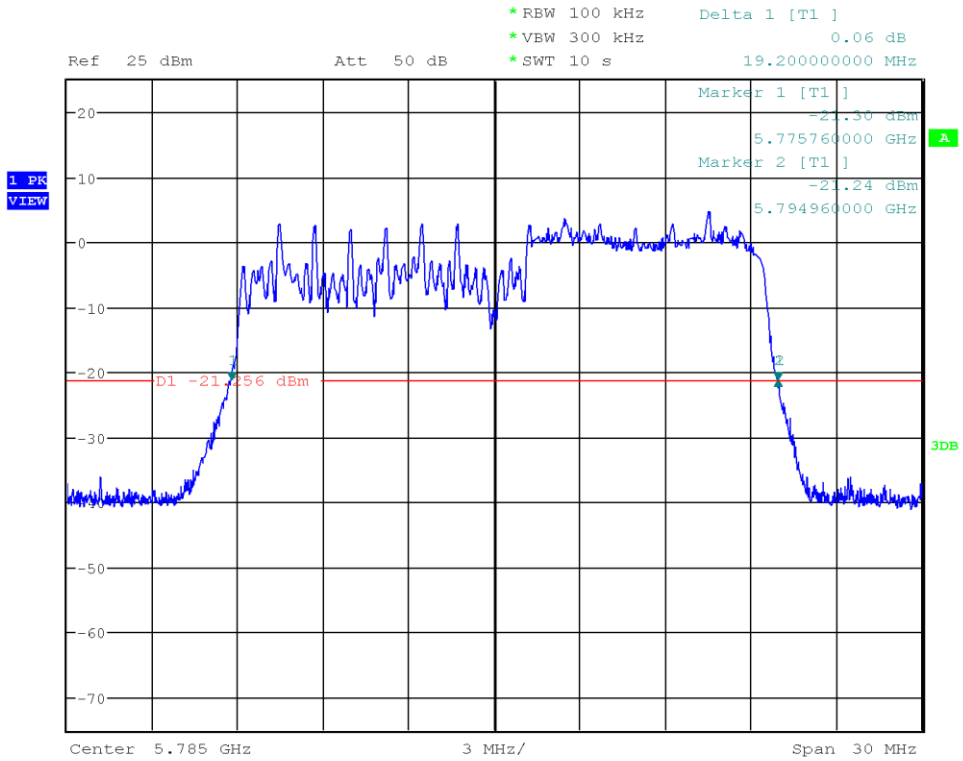
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 149, 5745 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5735.760
Upper Frequency [MHz]:	5754.915
26 dB Bandwidth [MHz]:	19.155



26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 157, 5785 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5775.760
Upper Frequency [MHz]:	5794.960
26 dB Bandwidth [MHz]:	19.200



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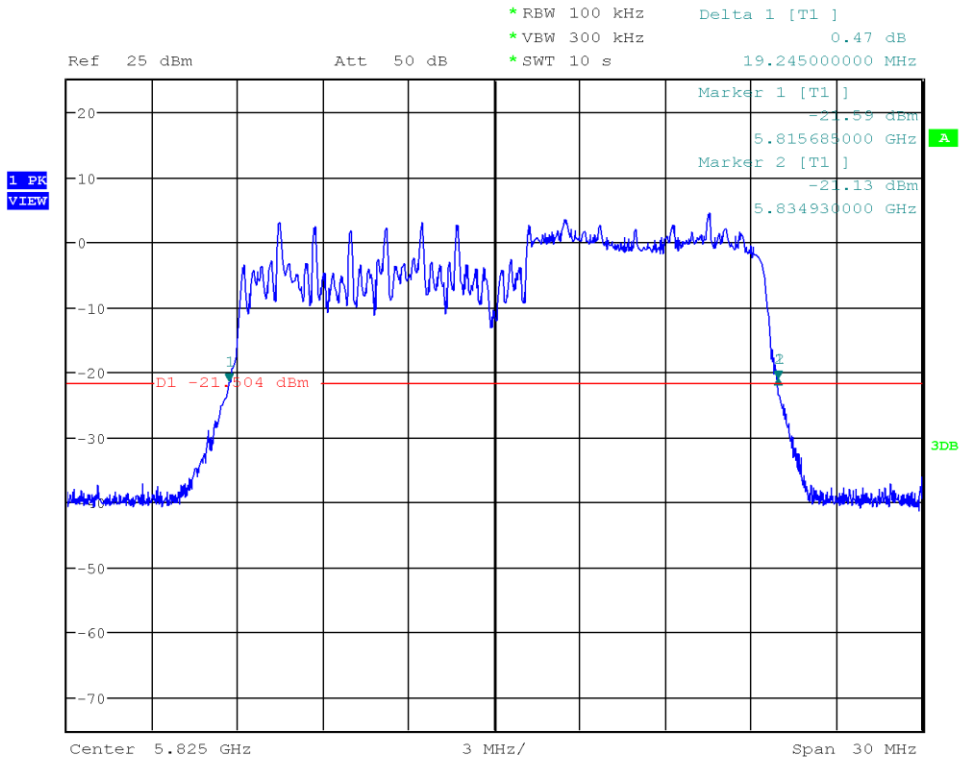
26 dB Bandwidth

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 11.8.1 Option 1
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 165, 5825 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-27
Note:	106 tones
Lower Frequency [MHz]:	5815.685
Upper Frequency [MHz]:	5834.930
26 dB Bandwidth [MHz]:	19.245



3.4 Test Conditions and Results - Maximum output power

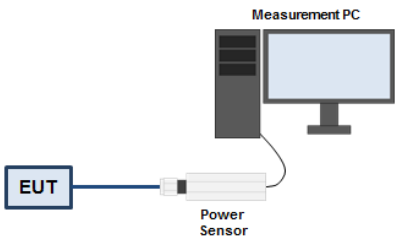
3.4.1 Information

Test Information	
Reference	FCC 15.407(a) ISED RSS-247 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.2
Measurement Method	KDB 789033 E ANSI C63.10 12.3
Operator	Azamat Ibraimov
Date	2024-02-23
Measurement uncertainty	±1.59 %

3.4.2 Limits

Limits			
Frequency band	Condition	Power limit	Maximum antenna gain[1]
5150 - 5250 MHz	Access point, indoor	1 W/30 dBm	6 dBi
5150 - 5250 MHz	Access point, outdoor	1 W/30 dBm Antenna pattern requirements may apply if EIRP > 200 mW / 23 dBm	6 dBi
5150 - 5250 MHz	Access point, fixed point to point	1 W/30 dBm	23 dBi
5150 - 5250 MHz	Client	250 mW/24 dBm	6 dBi
5250 - 5350 MHz	-	Minimum of 250 mW/24 dBm or 11 dBm + 10*Log_{10}(BW^3)	6 dBi
5470 - 5725 MHz	-	Minimum of 250 mW/24 dBm or 11 dBm + 10*Log_{10}(BW^3)	6 dBi
5725 - 5850 MHz	-	1 W/30 dBm[2]	6 dBi
Note 1: The maximum output power must be reduced by the amount in dB that the gain exceeds the maximum allowed gain Note 2: Fixed point to point applications are excluded from power reduction according to Note 1 Note 3: BW is the 26 dB bandwidth in MHz			

3.4.3 Setup

Test Setup


3.4.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Power sensor	ETS-Lindgren	7002-006	EF00934	2023-08	2024-08

3.4.5 Procedure

Test Procedure
1. One wide band power sensor is connected to each antenna port of the EUT
1. EUT transmitter is activated in test mode under normal conditions
2. The output power is measured simultaneously at all antenna ports
3. The maximum power level is determined

3.4.6 Results

Test Results - 5150 - 5250 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	Power [dBm]	Limit [dBm]	Verdict
HE20-TB 106T	36	5180	20	6.6	23.4	PASS
HE20-TB 106T	40	5200	20	6.8	23.4	PASS
HE20-TB 106T	48	5240	20	6.9	23.4	PASS
HE40-TB 106T	36+40	5190	40	7.1	23.4	PASS
HE40-TB 106T	44+48	5230	40	7.3	23.4	PASS
HE80-TB 52T	36+40+44+48	5210	80	-0.2	23.4	PASS
HE20-SU ER	36	5180	20	12.3	23.4	PASS
HE20-SU ER	40	5200	20	13.5	23.4	PASS
HE20-SU ER	48	5240	20	13.5	23.4	PASS
Note: The limit is for client devices and reduced by the gain exceeding the maximum allowed gain.						

Test Results - 5250 - 5350 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	Power [dBm]	Limit [dBm]	Verdict
HE20-TB 106T	52	5260	20	7.0	22.7	PASS
HE20-TB 106T	56	5280	20	7.2	22.7	PASS
HE20-TB 106T	64	5320	20	7.2	22.7	PASS
HE40-TB 106T	52+56	5270	40	7.4	22.7	PASS
HE40-TB 106T	60+64	5310	40	7.6	22.7	PASS
HE80-TB 52T	52+56+60+64	5290	80	0.3	22.7	PASS
HE20-SU ER	52	5260	20	13.5	22.7	PASS
HE20-SU ER	56	5280	20	13.7	22.7	PASS
HE20-SU ER	64	5320	20	12.6	22.7	PASS

Test Results - 5470 - 5725 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	Power [dBm]	Limit [dBm]	Verdict
HE20-TB 106T	100	5500	20	5.6	22	PASS
HE20-TB 106T	120	5600	20	7.6	22	PASS
HE20-TB 106T	144	5720	20	6.3	22	PASS
HE40-TB 106T	100+104	5510	40	5.9	22	PASS
HE40-TB 106T	116+120	5590	40	8.1	22	PASS
HE40-TB 106T	140+144	5710	40	6.9	22	PASS
HE80-TB 52T	100+104+108+112	5530	80	0.9	22	PASS
HE80-TB 52T	116+120+124+128	5610	80	3.9	22	PASS
HE80-TB 52T	132+136+140+144	5690	80	-0.3	22	PASS
HE20-SU ER	100	5500	20	12.3	22	PASS
HE20-SU ER	112	5560	20	14.3	22	PASS
HE20-SU ER	144	5720	20	12.7	22	PASS

Test Results - 5725 - 5850 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	Power [dBm]	Limit [dBm]	Verdict
HE20-TB 106T	149	5745	20	7.1	29.4	PASS
HE20-TB 106T	157	5785	20	6.4	29.4	PASS
HE20-TB 106T	165	5825	20	6.6	29.4	PASS
HE40-TB 106T	149+153	5755	40	7.2	29.4	PASS
HE40-TB 106T	157+161	5795	40	6.8	29.4	PASS
HE80-TB 52T	149+153+157+161	5775	80	-0.5	29.4	PASS
HE20-SU ER	149	5745	20	13.7	29.4	PASS
HE20-SU ER	157	5785	20	13	29.4	PASS
HE20-SU ER	165	5825	20	13	29.4	PASS

3.5 Test Conditions and Results - Power spectral density

3.5.1 Information

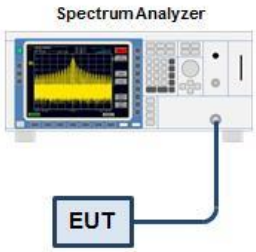
Test Information	
Reference	FCC 15.407(a) ISED RSS-247 6.2.1.1, 6.2.2.1, 6.2.3.1, 6.2.4.2
Measurement Method	KDB 789033 F ANSI C63.10 12.5
Operator	Azamat Ibraimov
Date	2024-02-28
Measurement uncertainty	±2.86 %

3.5.2 Limits

Limits			
Frequency band	Condition	PSD limit	Maximum antenna gain[1]
5150 - 5250 MHz	Access point, indoor	17 dBm/MHz	6 dBi
5150 - 5250 MHz	Access point, outdoor	17 dBm/MHz	6 dBi
5150 - 5250 MHz	Access point, fixed point to point	17 dBm/MHz	23 dBi
5150 - 5250 MHz	Client	11 dBm/MHz	6 dBi
5250 - 5350 MHz	All devices	11 dBm/MHz	6 dBi
5470 - 5725 MHz	All devices	11 dBm/MHz	6 dBi
5725 - 5850 MHz	All devices	30 dBm/500 kHz	6 dBi
Note 1: The power density limit must be reduced by the amount in dB that the gain exceeds the maximum allowed gain			

3.5.3 Setup

Test Setup



3.5.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSU43	EF01631	2023-08	2024-08
Cable(CAABC)	Gigalane	GIGALANE 1730	EF00779	2023-03	2024-03

3.5.5 Procedure

Test Procedure
1. EUT transmitter is activated in test mode under normal conditions
2. The spectrum analyzer is set to rms detection with a span over the emission bandwidth
3. The resolution bandwidth is set to 1 MHz / 500 kHz and video bandwidth to ≥ 3 MHz
4. The number of sweep points is set ≥ 2 x span / RBW and the sweep time is set to auto
5. Trace averaging is set to 100
6. The maximum of the emission envelope is determined
7. The duty cycle (10 x Log_{10}(1/duty cycle)) correction is added to the measurement result

3.5.6 Results

Test Results - 5150 - 5250 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HE20-TB 106T	36	5180	20	-1.724	10.4	PASS
HE20-TB 106T	40	5200	20	-1.449	10.4	PASS
HE20-TB 106T	48	5240	20	-1.845	10.4	PASS
HE40-TB 106T	36+40	5190	40	-1.440	10.4	PASS
HE40-TB 106T	44+48	5230	40	-1.480	10.4	PASS
HE80-TB 26T	36+40+44+48	5210	80	-5.150	10.4	PASS
HE20-SU ER	36	5180	20	4.127	10.4	PASS
HE20-SU ER	40	5200	20	5.333	10.4	PASS
HE20-SU ER	48	5240	20	5.111	10.4	PASS

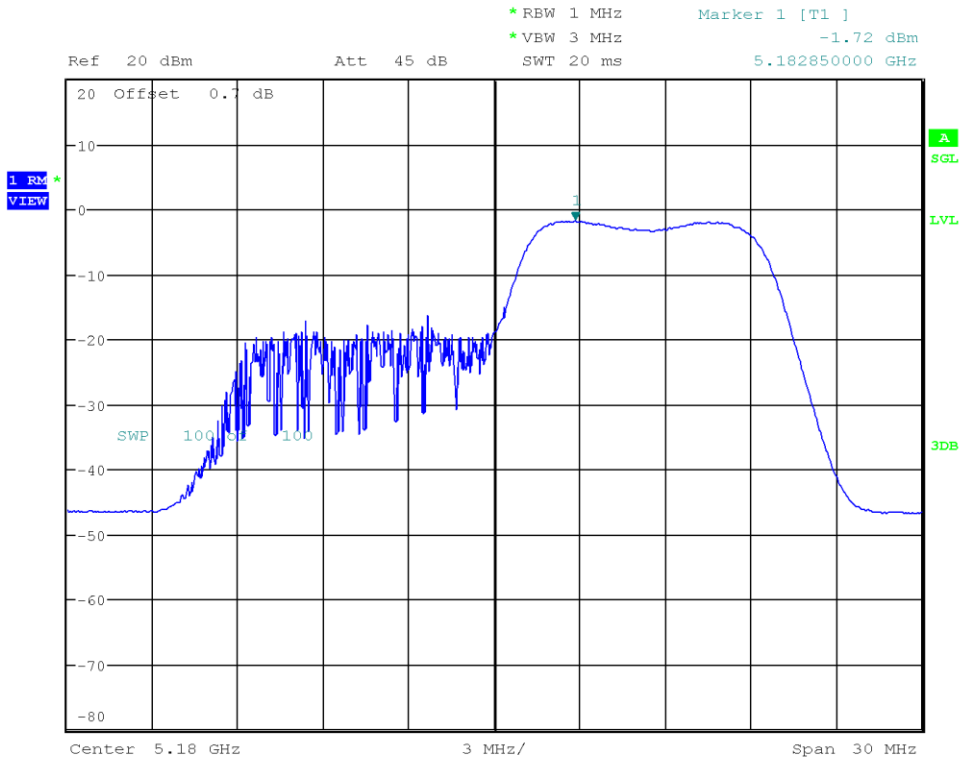
Test Results - 5250 - 5350 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HE20-TB 106T	52	5260	20	-1.564	9.7	PASS
HE20-TB 106T	56	5280	20	-1.320	9.7	PASS
HE20-TB 106T	64	5320	20	-1.240	9.7	PASS
HE40-TB 106T	52+56	5270	40	-1.354	9.7	PASS
HE40-TB 106T	60+64	5310	40	-0.935	9.7	PASS
HE80-TB 52T	52+56+60+64	5290	80	-4.614	9.7	PASS
HE20-SU ER	52	5260	20	4.993	9.7	PASS
HE20-SU ER	56	5280	20	5.267	9.7	PASS
HE20-SU ER	64	5320	20	4.228	9.7	PASS

Test Results - 5470 - 5725 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HE20-TB 106T	100	5500	20	-2.911	9	PASS
HE20-TB 106T	120	5600	20	-0.579	9	PASS
HE20-TB 106T	144	5720	20	-1.969	9	PASS
HE40-TB 106T	100+104	5510	40	-2.758	9	PASS
HE40-TB 106T	116+120	5590	40	-0.511	9	PASS
HE40-TB 106T	140+144	5710	40	-1.767	9	PASS
HE80-TB 52T	100+104+108+112	5530	80	-4.240	9	PASS
HE80-TB 52T	116+120+124+128	5610	80	-0.940	9	PASS
HE80-TB 52T	132+136+140+144	5690	80	-5.312	9	PASS
HE20-SU ER	100	5500	20	4.542	9	PASS
HE20-SU ER	112	5560	20	5.776	9	PASS
HE20-SU ER	144	5720	20	4.117	9	PASS

Test Results - 5725 - 5850 MHz						
Mode	Channel	Frequency [MHz]	Nominal BW [MHz]	PSD [dBm/MHz]	Limit [dBm/MHz]	Verdict
HE20-TB 106T	149	5745	20	-4.398	29.4	PASS
HE20-TB 106T	157	5785	20	-4.772	29.4	PASS
HE20-TB 106T	165	5825	20	-4.881	29.4	PASS
HE40-TB 106T	149+153	5755	40	-4.592	29.4	PASS
HE40-TB 106T	157+161	5795	40	-4.563	29.4	PASS
HE80-TB 52T	149+153+157+161	5775	80	-7.731	29.4	PASS
HE20-SU ER	149	5745	20	2.192	29.4	PASS
HE20-SU ER	157	5785	20	1.742	29.4	PASS
HE20-SU ER	165	5825	20	1.537	29.4	PASS

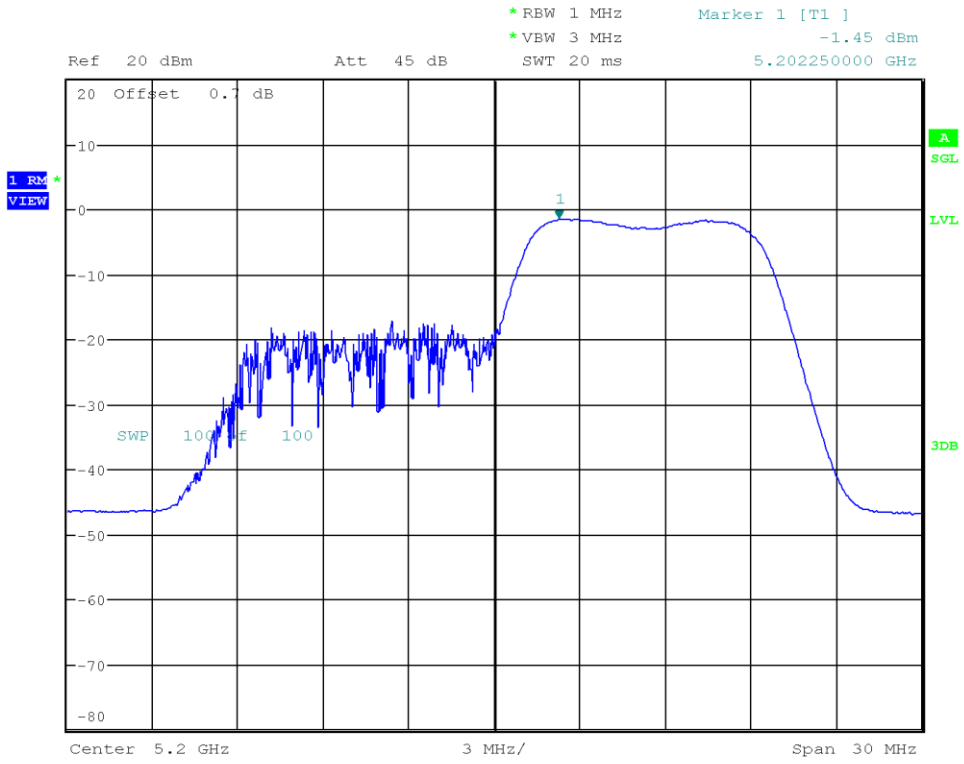
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax HE20-TB, Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5182.850
Spectral Density [dBm/RBW]:	-1.724
Resolution Bandwidth [MHz]:	1



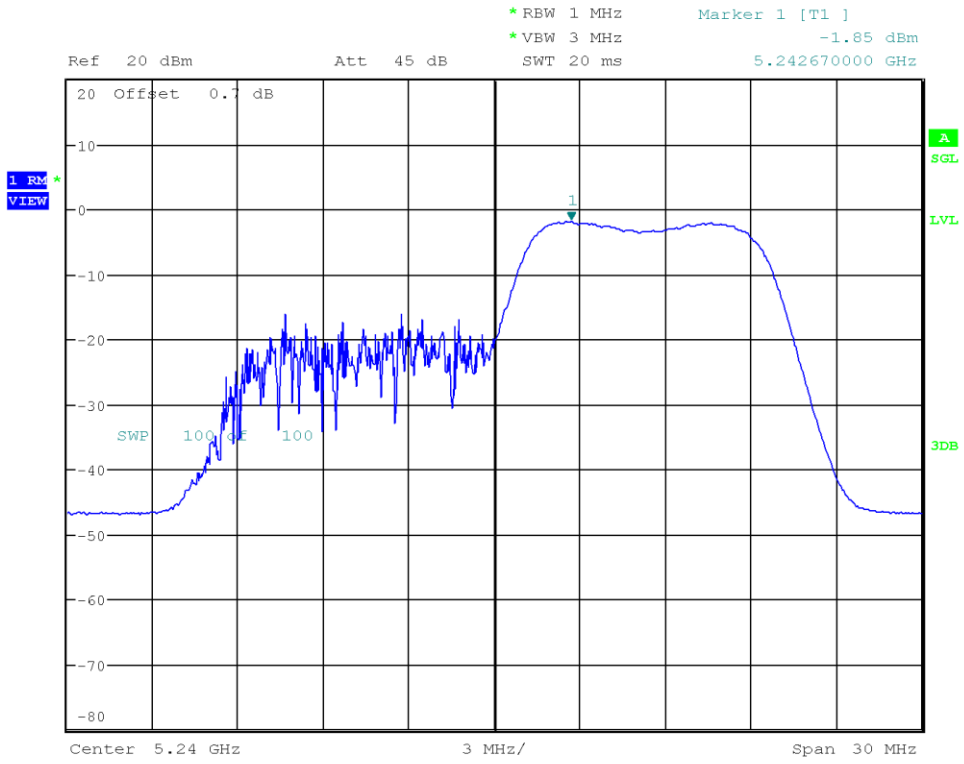
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax HE20-TB, Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5202.250
Spectral Density [dBm/RBW]:	-1.449
Resolution Bandwidth [MHz]:	1



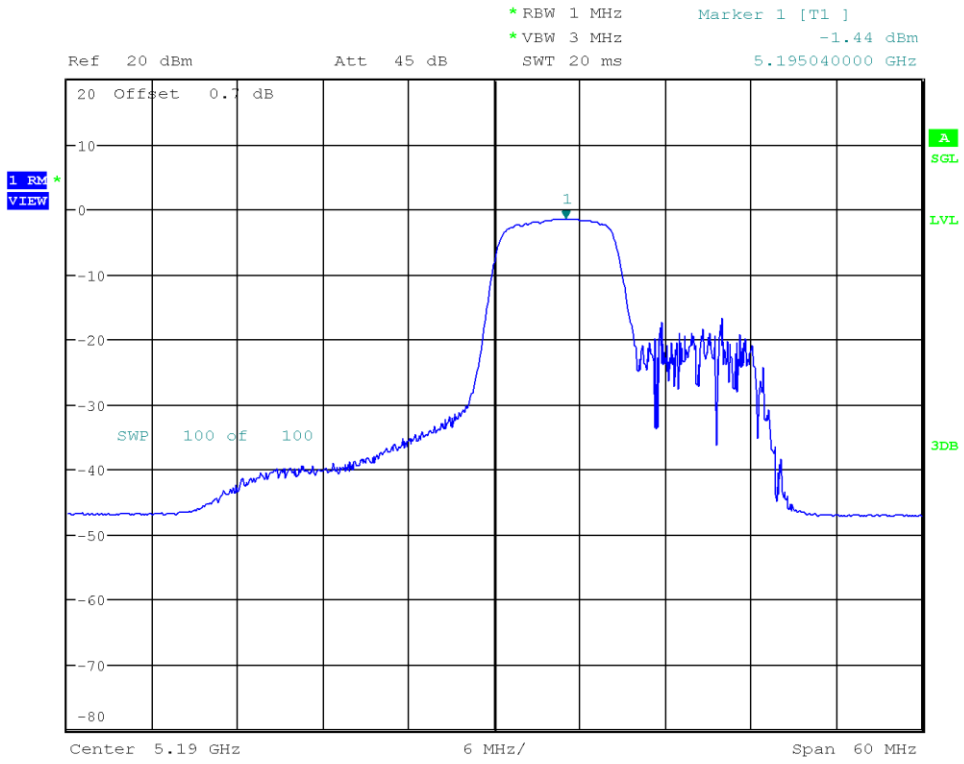
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax HE20-TB, Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5242.670
Spectral Density [dBm/RBW]:	-1.845
Resolution Bandwidth [MHz]:	1



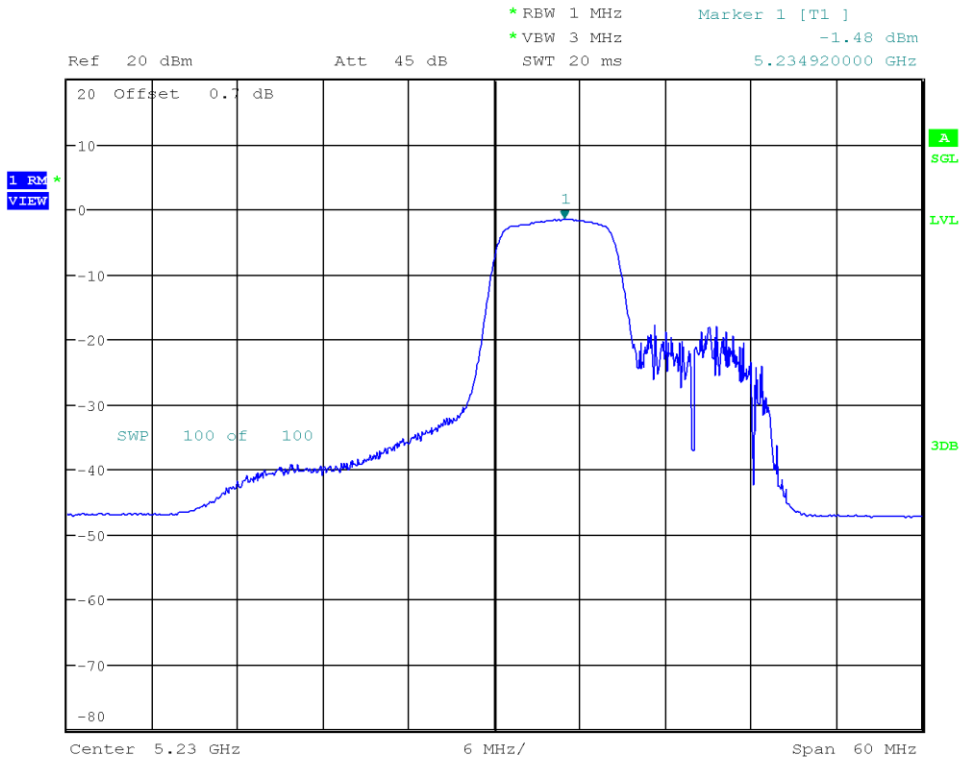
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 38, 5190 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5195.040
Spectral Density [dBm/RBW]:	-1.440
Resolution Bandwidth [MHz]:	1



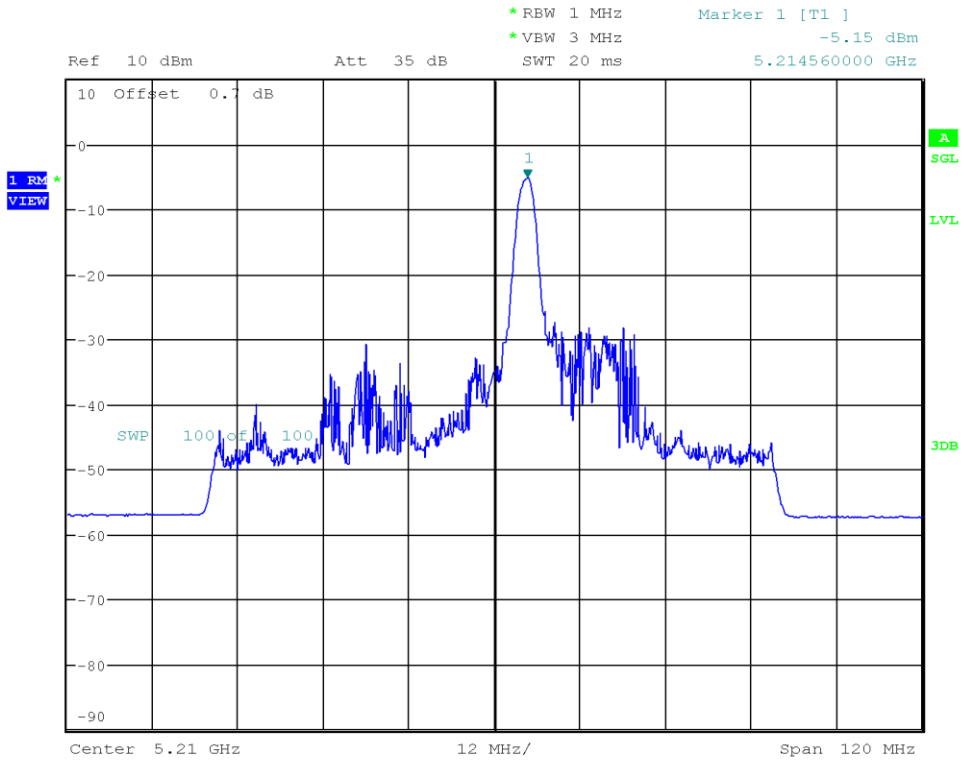
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 46, 5230 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5234.920
Spectral Density [dBm/RBW]:	-1.480
Resolution Bandwidth [MHz]:	1



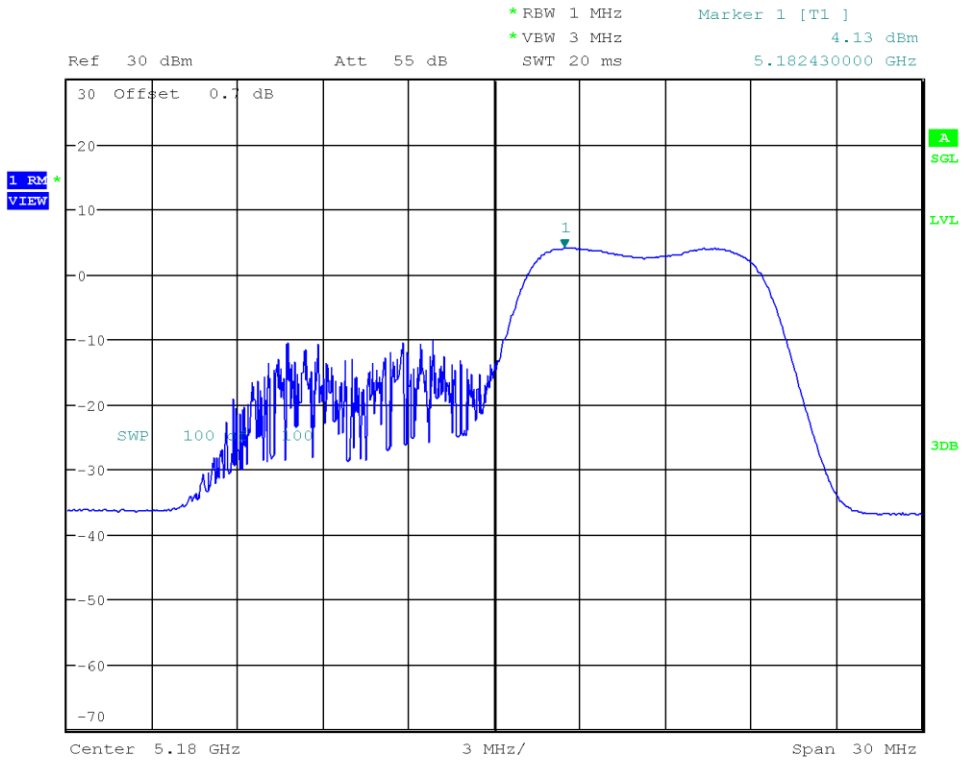
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 42, 5210 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	26 tones
Maximum Frequency [MHz]:	5214.560
Spectral Density [dBm/RBW]:	-5.150
Resolution Bandwidth [MHz]:	1



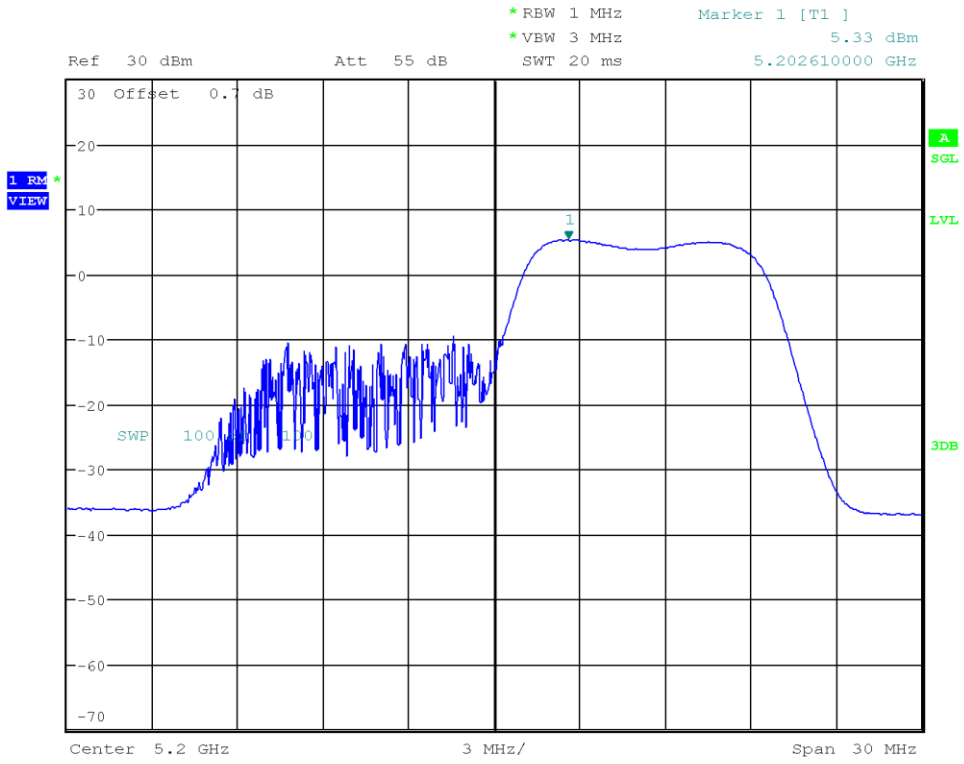
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 36, 5180 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5182.430
Spectral Density [dBm/RBW]:	4.127
Resolution Bandwidth [MHz]:	1



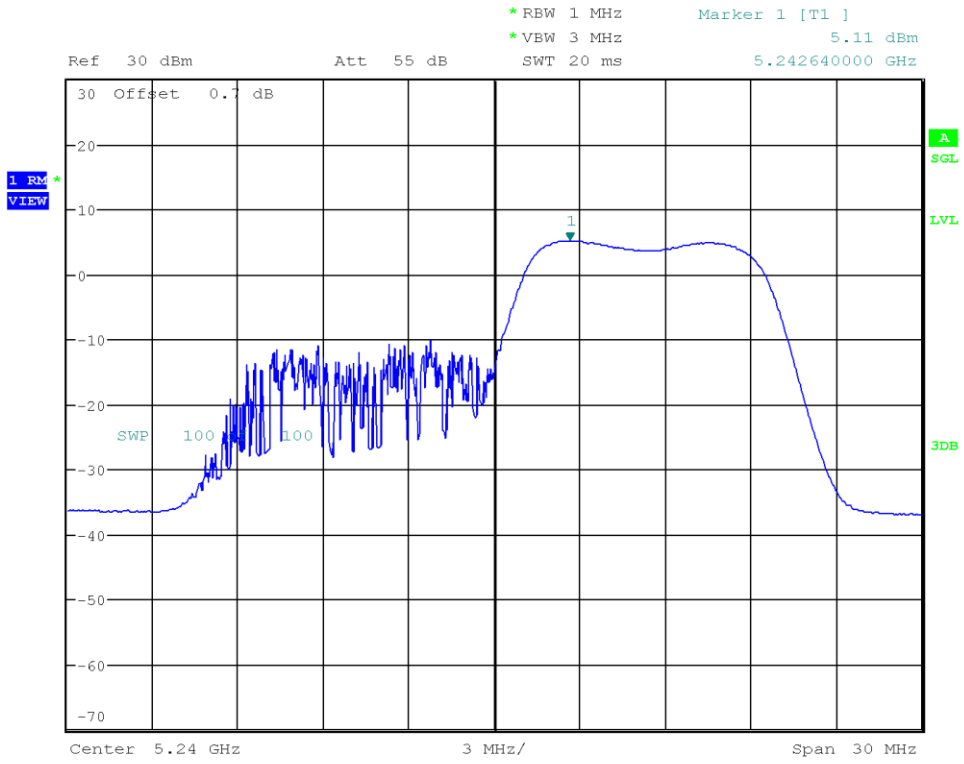
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 40, 5200 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5202.610
Spectral Density [dBm/RBW]:	5.333
Resolution Bandwidth [MHz]:	1



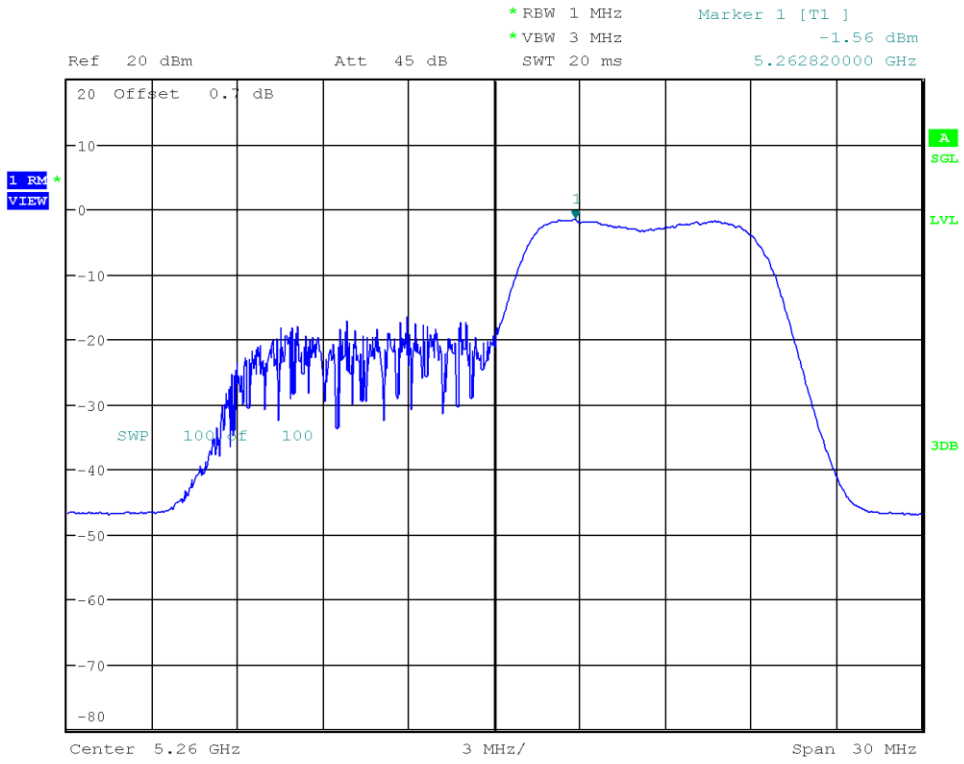
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 48, 5240 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5242.640
Spectral Density [dBm/RBW]:	5.111
Resolution Bandwidth [MHz]:	1



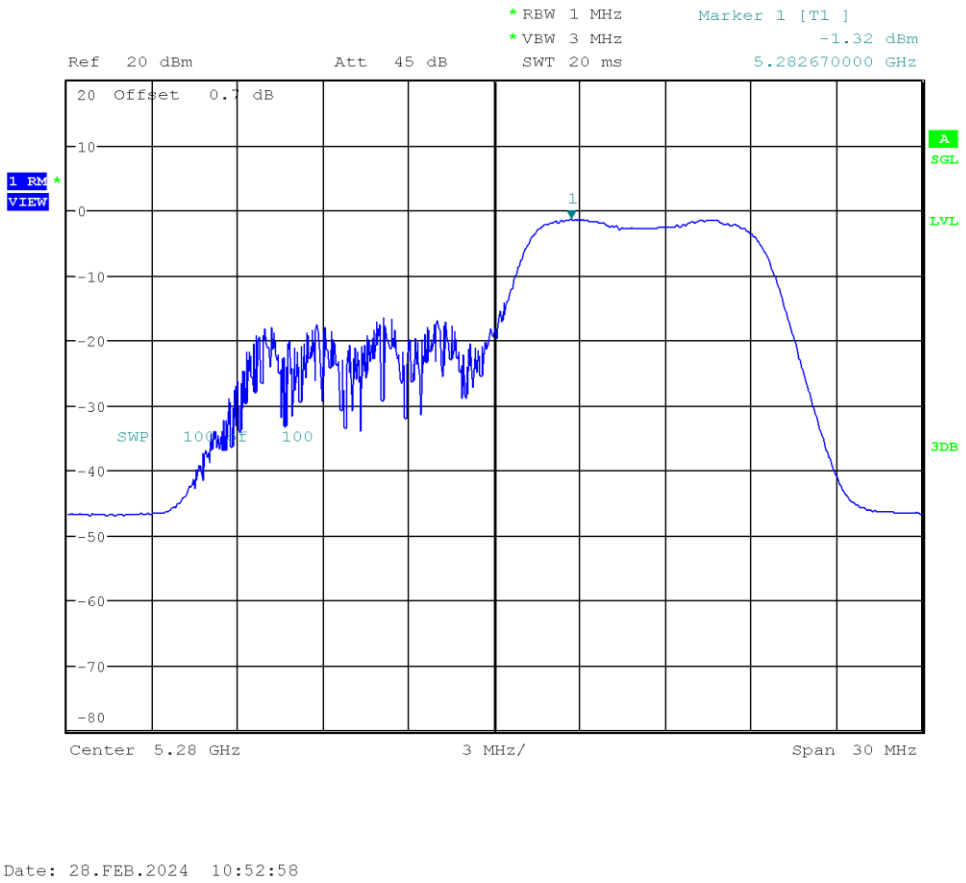
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5262.820
Spectral Density [dBm/RBW]:	-1.564
Resolution Bandwidth [MHz]:	1



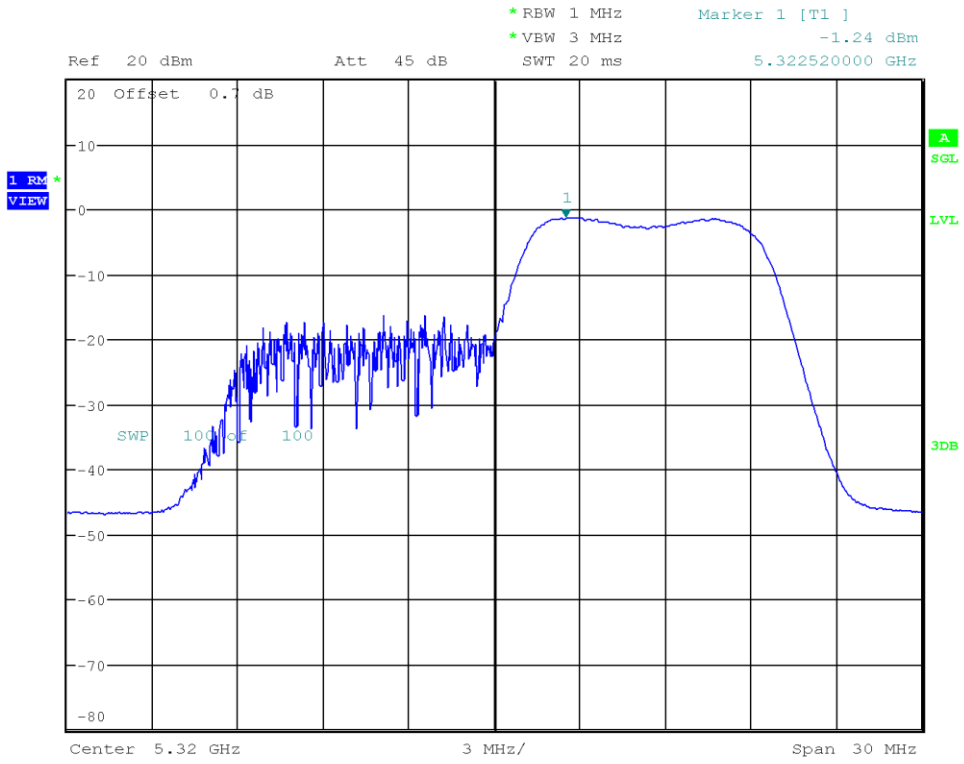
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5282.670
Spectral Density [dBm/RBW]:	-1.320
Resolution Bandwidth [MHz]:	1



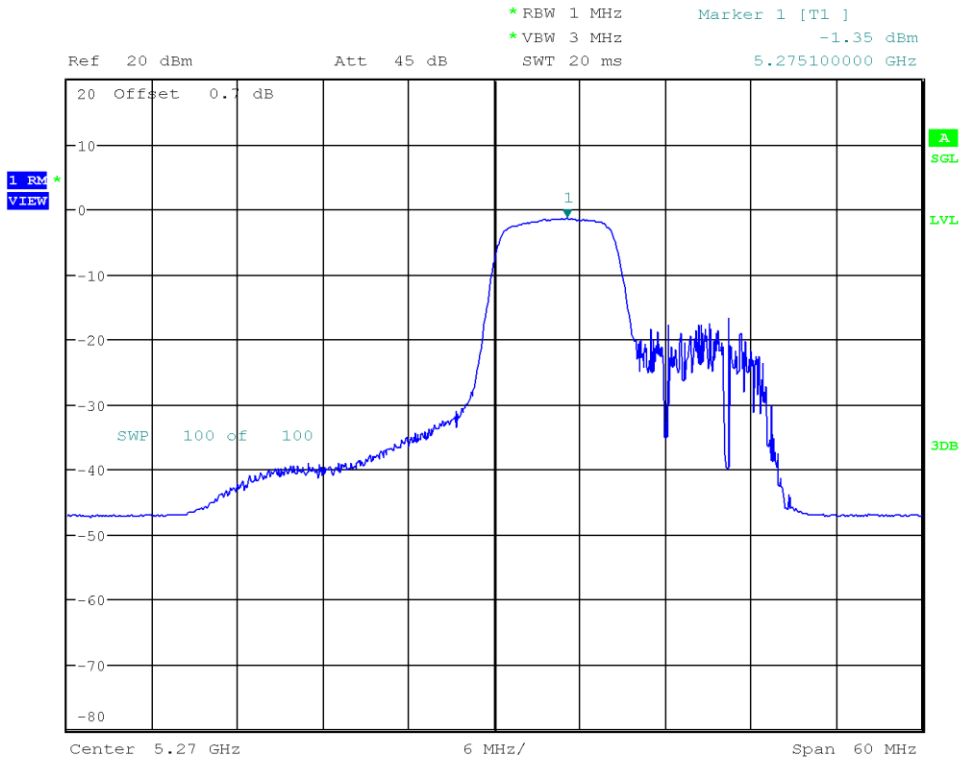
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5322.520
Spectral Density [dBm/RBW]:	-1.240
Resolution Bandwidth [MHz]:	1



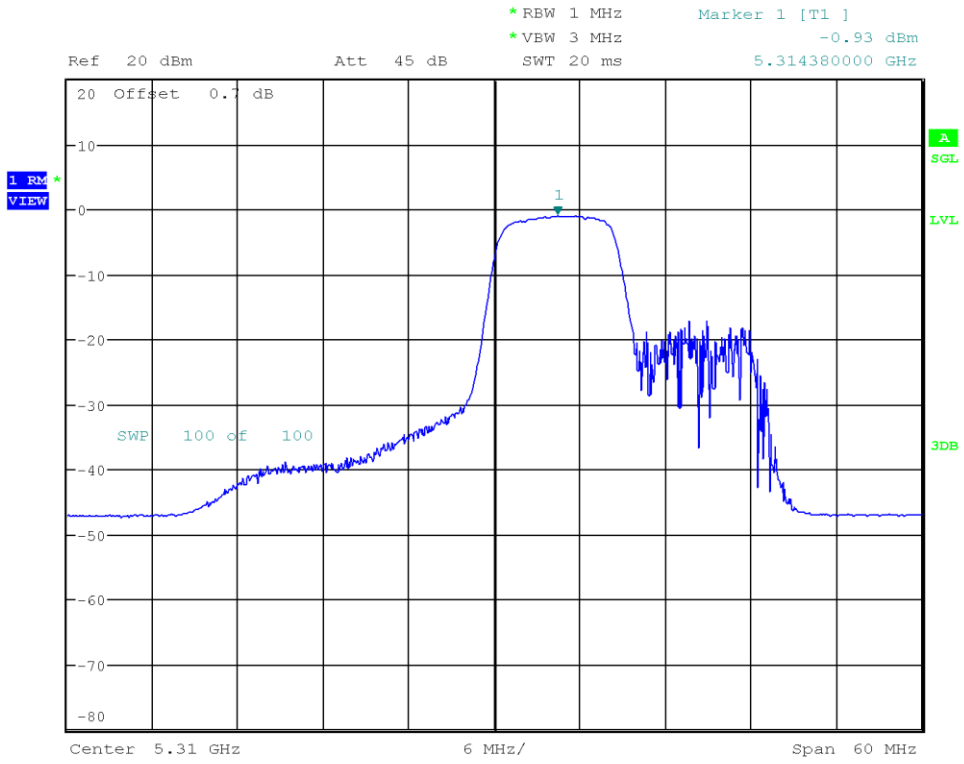
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 54, 5270 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5275.100
Spectral Density [dBm/RBW]:	-1.354
Resolution Bandwidth [MHz]:	1



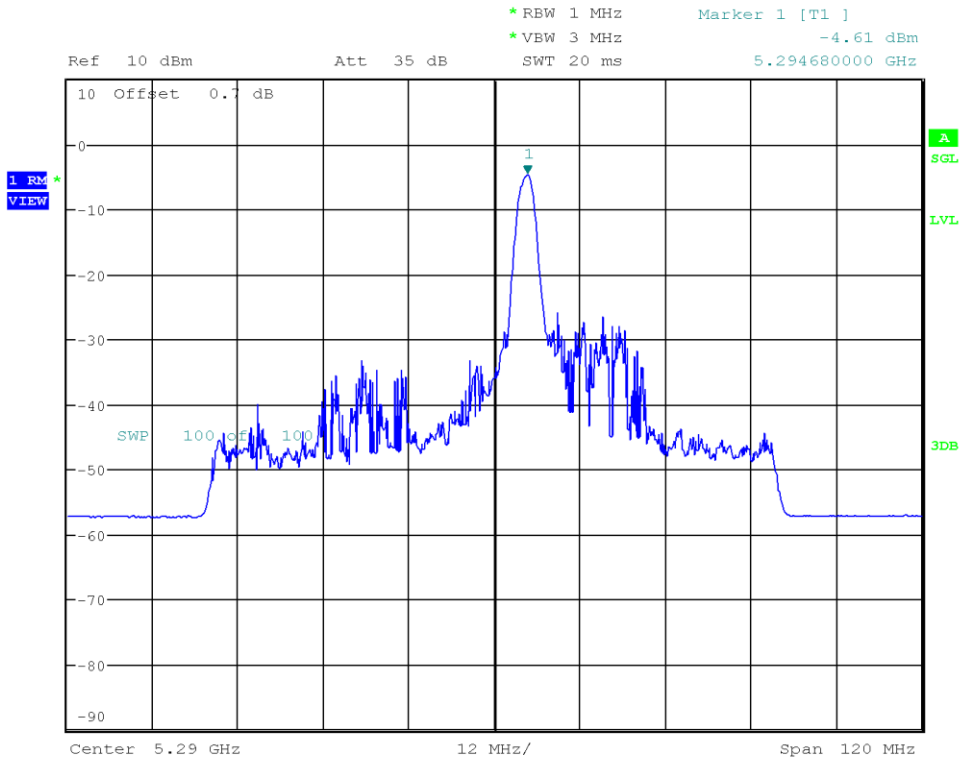
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 62, 5310 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5314.380
Spectral Density [dBm/RBW]:	-0.935
Resolution Bandwidth [MHz]:	1



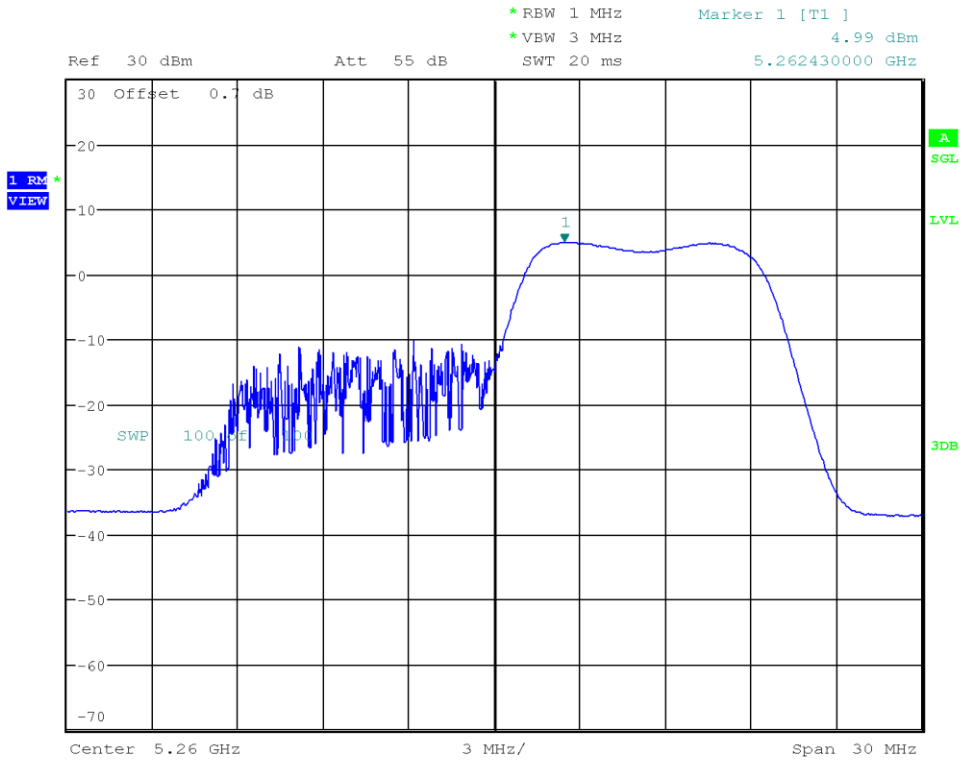
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 58, 5290 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	26 tones
Maximum Frequency [MHz]:	5294.680
Spectral Density [dBm/RBW]:	-4.614
Resolution Bandwidth [MHz]:	1



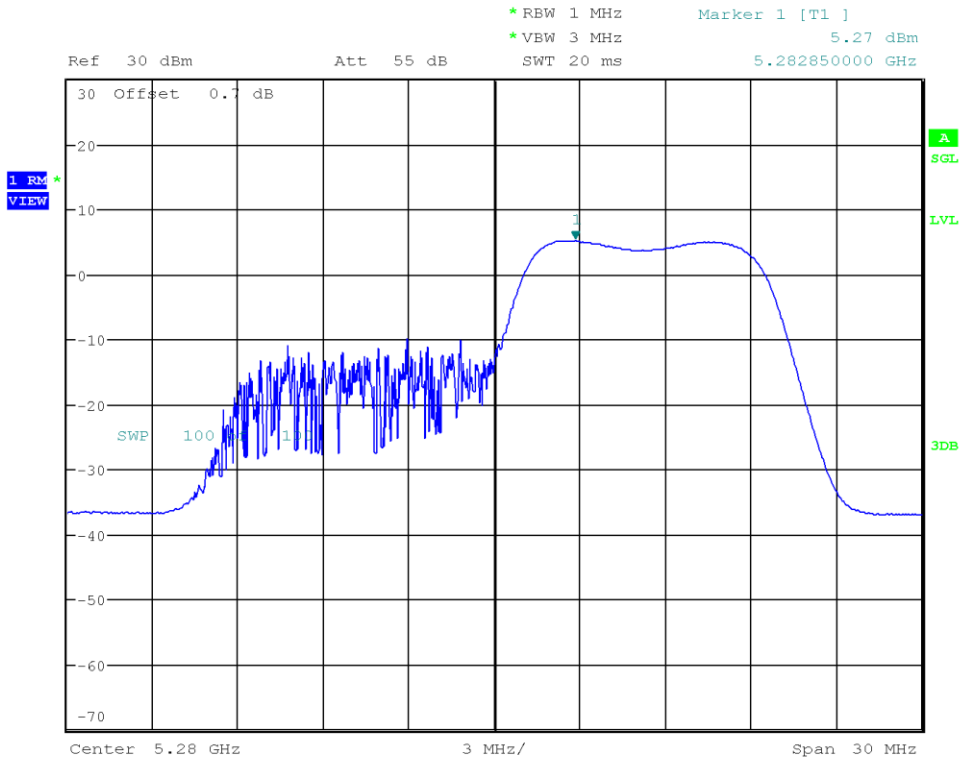
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 52, 5260 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5262.430
Spectral Density [dBm/RBW]:	4.993
Resolution Bandwidth [MHz]:	1



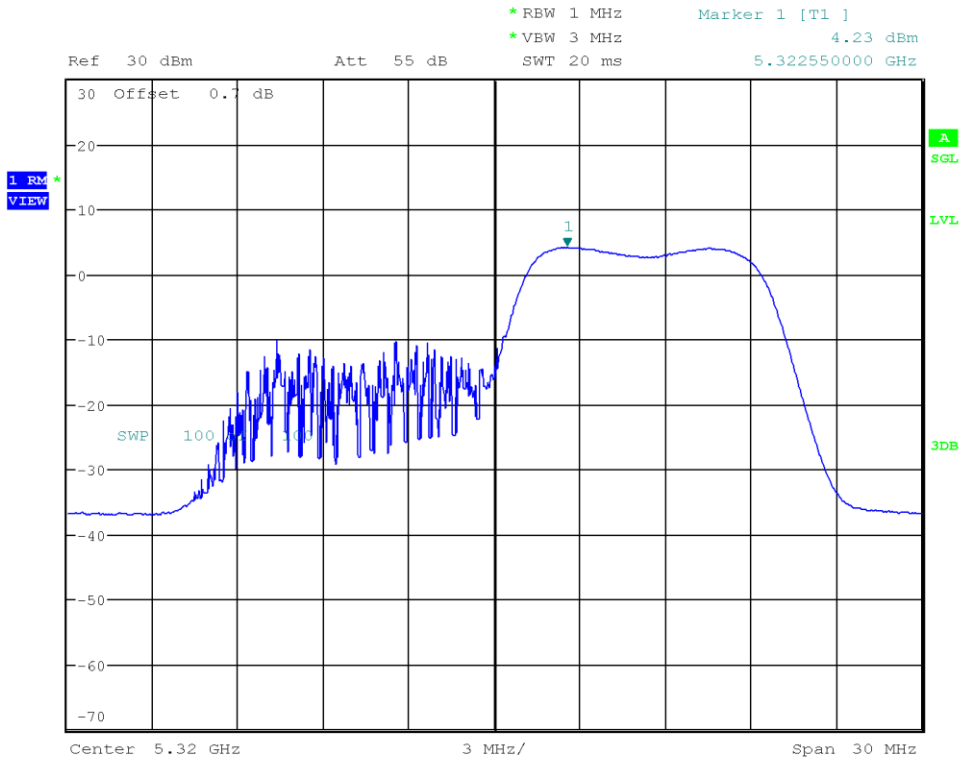
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 56, 5280 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5282.850
Spectral Density [dBm/RBW]:	5.267
Resolution Bandwidth [MHz]:	1



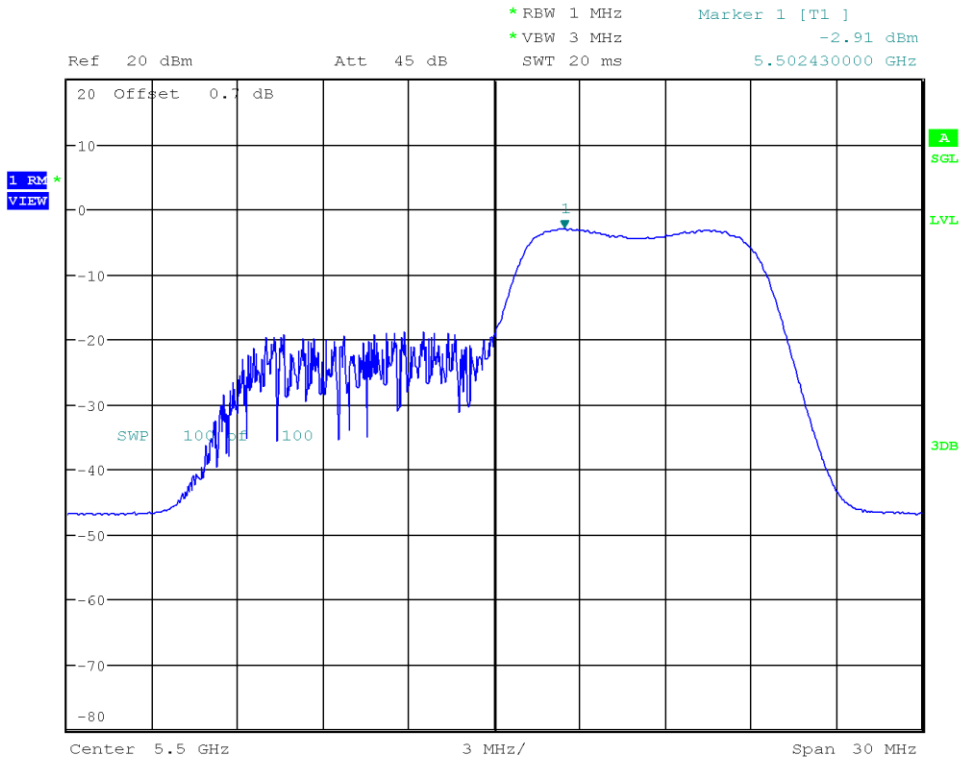
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-SU ER), Channel: 64, 5320 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5322.550
Spectral Density [dBm/RBW]:	4.228
Resolution Bandwidth [MHz]:	1



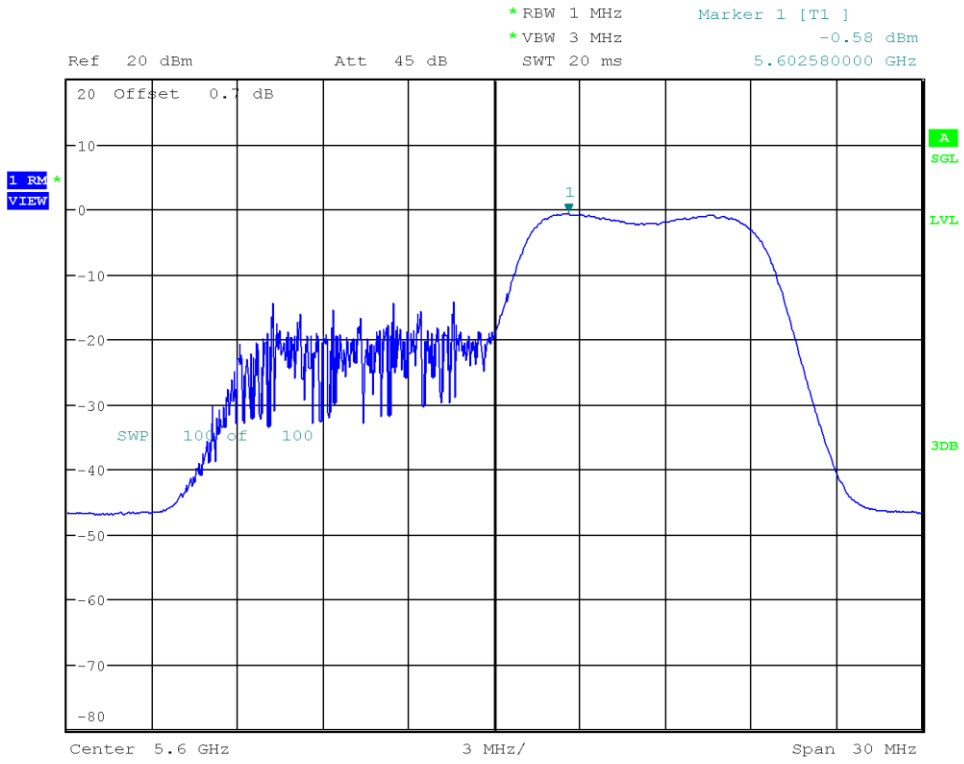
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 100, 5500 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5502.430
Spectral Density [dBm/RBW]:	-2.911
Resolution Bandwidth [MHz]:	1



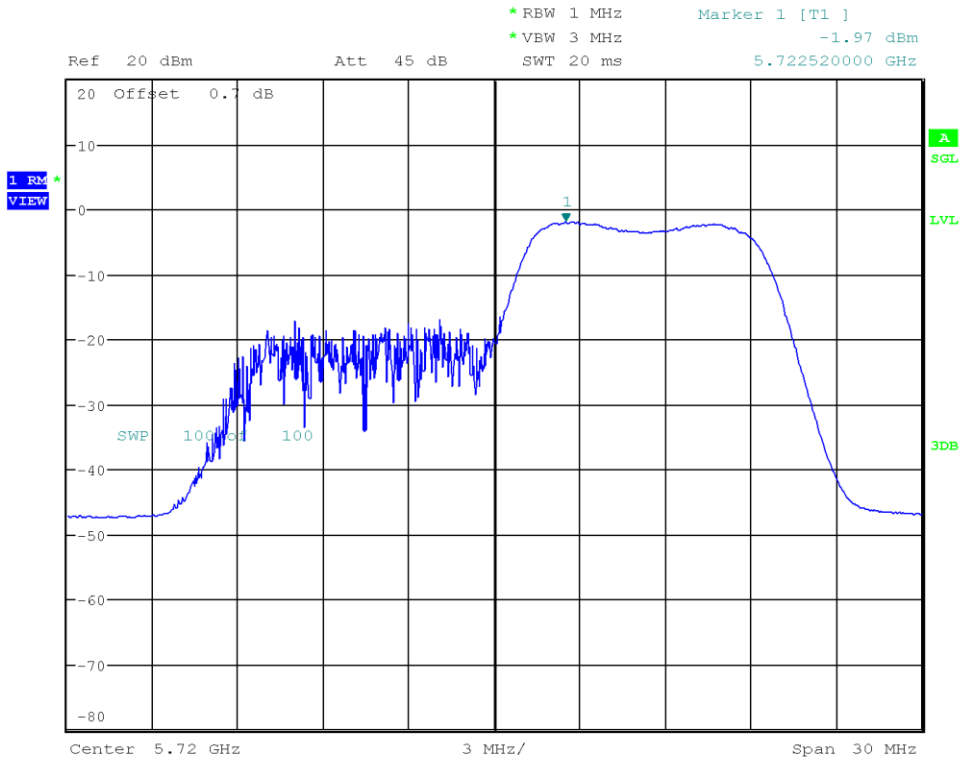
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 120, 5600 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5602.580
Spectral Density [dBm/RBW]:	-0.579
Resolution Bandwidth [MHz]:	1



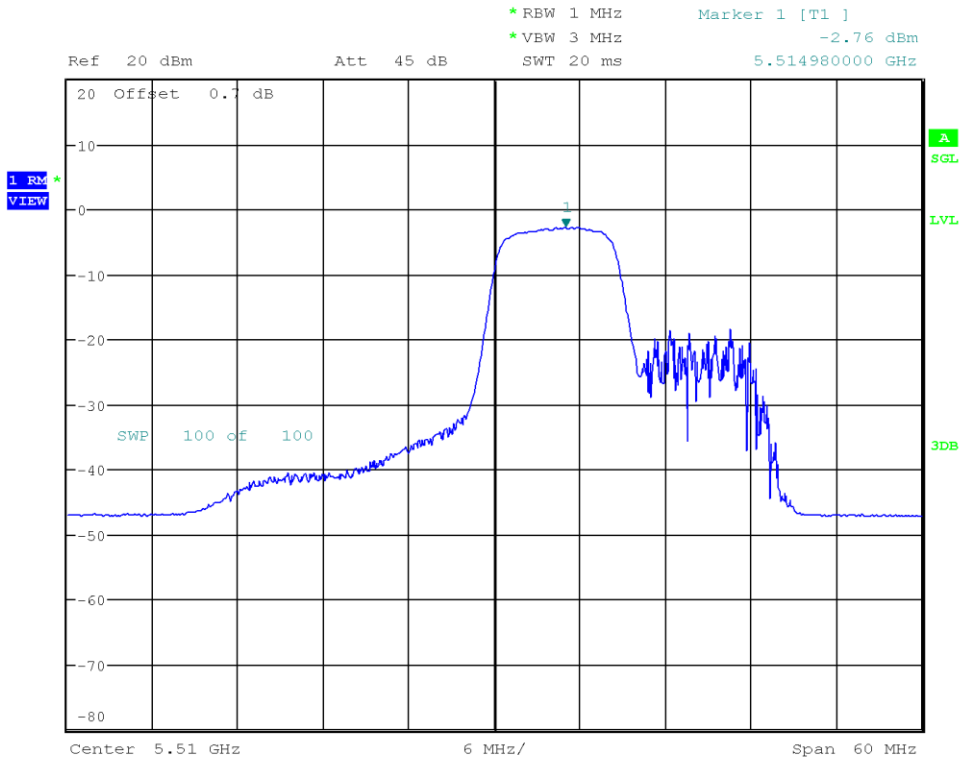
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE20-TB), Channel: 144, 5720 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5722.520
Spectral Density [dBm/RBW]:	-1.969
Resolution Bandwidth [MHz]:	1



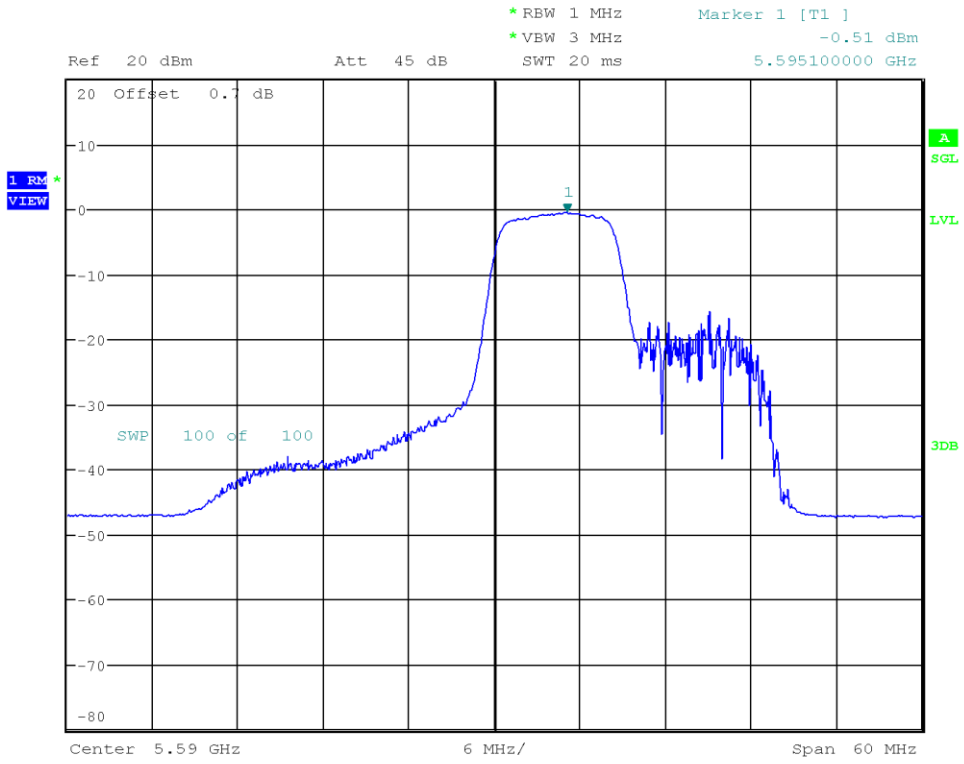
Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 102, 5510 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5514.980
Spectral Density [dBm/RBW]:	-2.758
Resolution Bandwidth [MHz]:	1



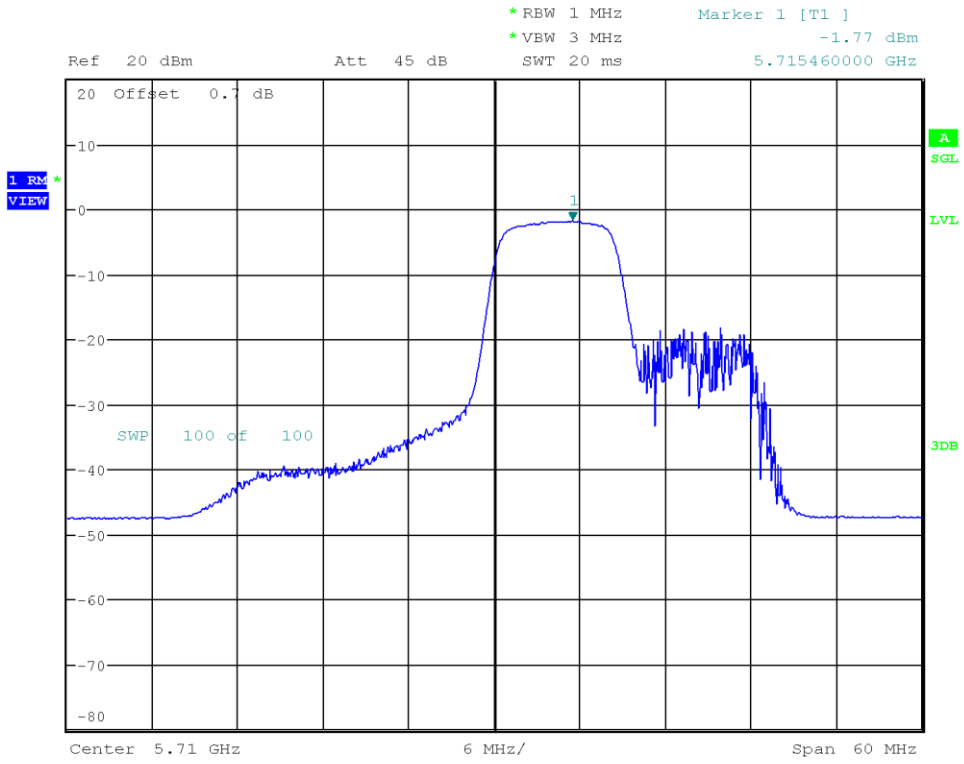
Maximum Power Spectral Density

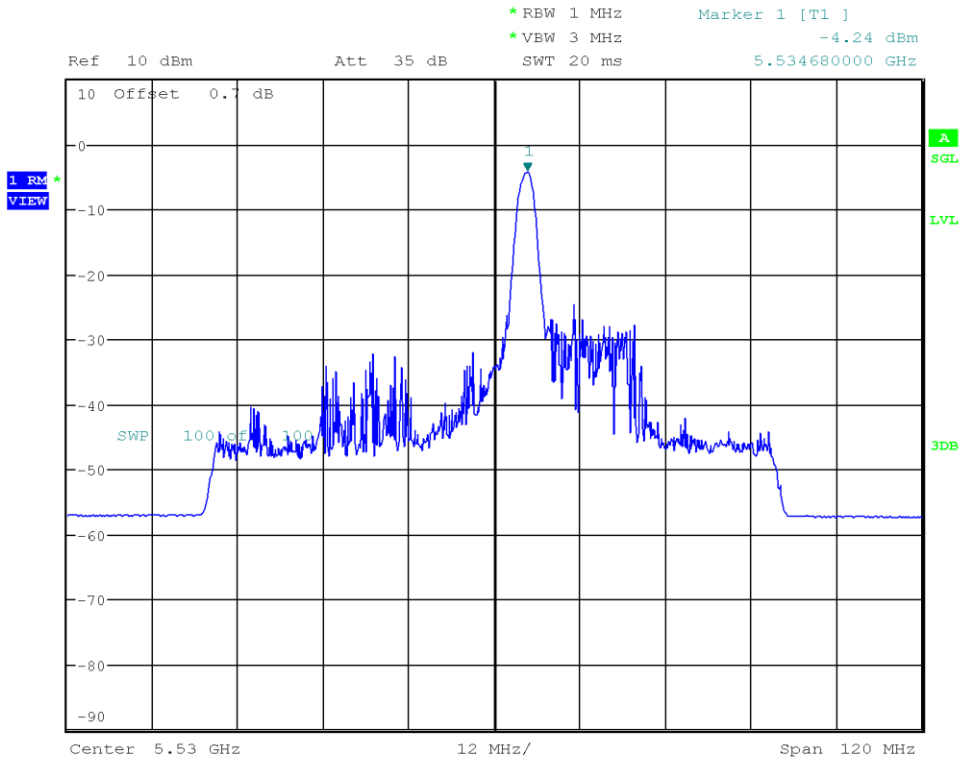
Project Number:	G0M-2309-2215
Applicant:	Panasonic Industrial Devices Europe GmbH
Model Description:	Wi-Fi 6 Dual Band 2.4 GHz/5 GHz, Bluetooth® and 802.15.4 Module
Model:	ENWF9511C1KF
Test Sample ID:	47713
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 118, 5590 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5595.100
Spectral Density [dBm/RBW]:	-0.511
Resolution Bandwidth [MHz]:	1



Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE40-TB), Channel: 142, 5710 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	106 tones
Maximum Frequency [MHz]:	5715.460
Spectral Density [dBm/RBW]:	-1.767
Resolution Bandwidth [MHz]:	1



Maximum Power Spectral Density

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
Reference Standards:	FCC 15.407, RSS-247
Reference Method:	ANSI C63.10:2013, Section 12.5; KDB 789033 v02r02, Section F
Operational Mode:	IEEE 802.11ax (HE80-TB), Channel: 106, 5530 MHz
Operating Conditions:	Tnom/Vnom
Operator:	Azamat Ibraimov
Test Site:	Eurofins Product Service GmbH
Test Date:	2024-02-28
Number of Antenna Ports:	1
Note:	26 tones
Maximum Frequency [MHz]:	5534.680
Spectral Density [dBm/RBW]:	-4.240
Resolution Bandwidth [MHz]:	1