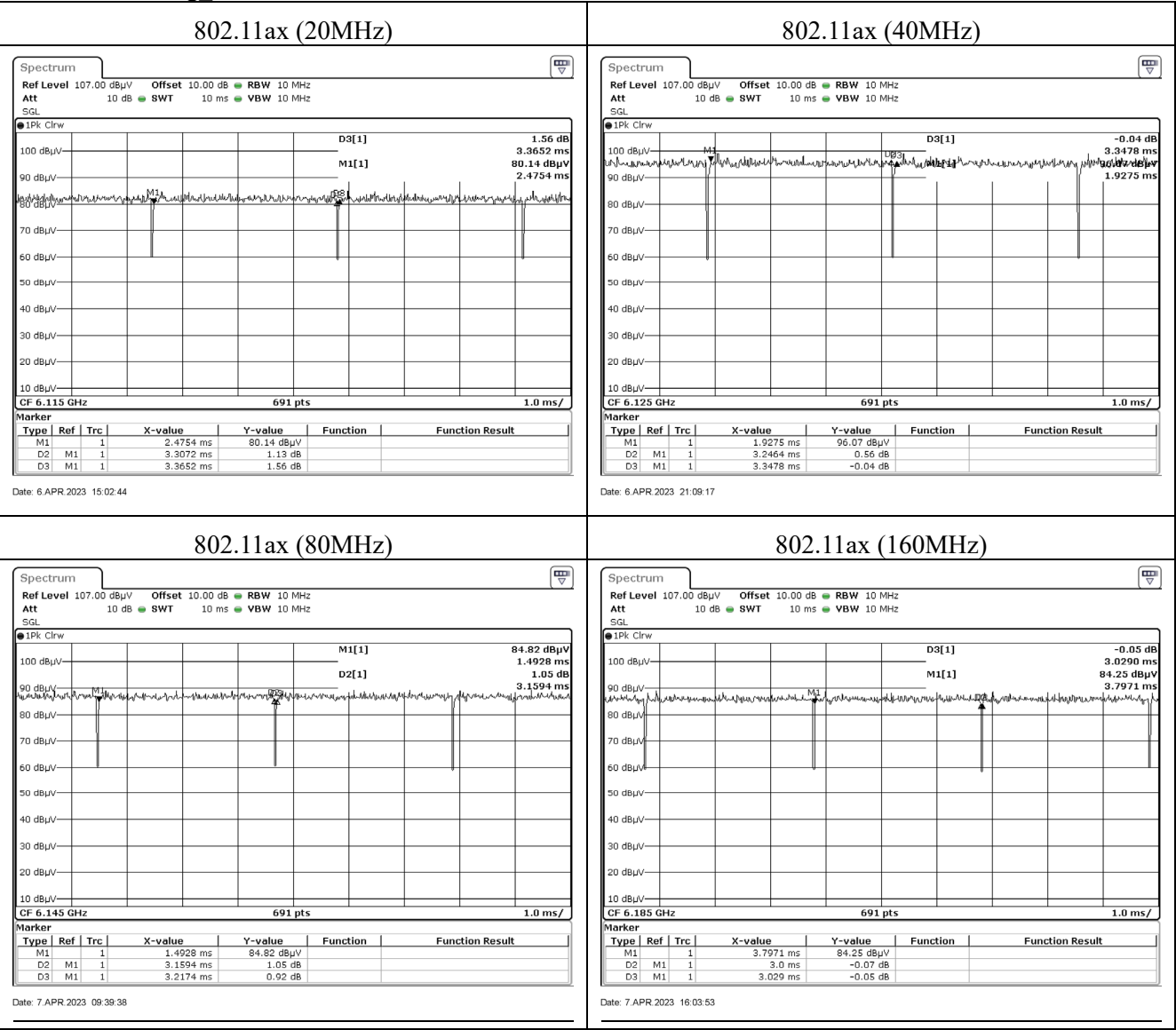


Non-Beamforming NSS-1



Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Duty Cycle

Test Date : 2023/04/08

Non-Beamforming_NSS-4

Mode	Time On (ms)	Time On + Time Off (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 ax20	3.3188	3.3623	98.71	0.06
802.11 ax40	3.0000	3.0580	98.10	0.08
802.11 ax80	2.9855	3.0435	98.09	0.08
802.11 ax160	2.9681	3.0406	97.62	0.10

Note:

Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

802.11ax (20MHz)

Spectrum

Ref Level 107.00 dBμV Offset 10.00 dB RBW 10 MHz
Att 10 dB SWT 10 ms VBW 10 MHz
SGL

1Pk Clrw

100 dBμV M1 -0.74 dB 3.3623 ms
90 dBμV D3[1] 94.47 dBμV 1.2029 ms

CF 6.115 GHz 691 pts 1.0 ms/

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	1.2029 ms	94.47 dBμV		
D2	M1	1	3.3188 ms	-0.67 dB		
D3	M1	1	3.3623 ms	-0.74 dB		

Date: 7 APR 2023 18:51:34

802.11ax (40MHz)

Spectrum

Ref Level 107.00 dBμV Offset 10.00 dB RBW 10 MHz
Att 10 dB SWT 10 ms VBW 10 MHz
SGL

1Pk Clrw

100 dBμV M1 1.54 dB 3.0580 ms
90 dBμV D3[1] 76.36 dBμV 2.5072 ms

CF 6.125 GHz 691 pts 1.0 ms/

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	2.5072 ms	76.36 dBμV		
D2	M1	1	3.0 ms	2.22 dB		
D3	M1	1	3.058 ms	1.54 dB		

Date: 8 APR 2023 06:28:33

802.11ax (80MHz)

Spectrum

Ref Level 107.00 dBμV Offset 10.00 dB RBW 10 MHz
Att 10 dB SWT 10 ms VBW 10 MHz
SGL

1Pk Clrw

100 dBμV M1 -0.02 dB 3.0435 ms
90 dBμV D3[1] 88.42 dBμV 3.1739 ms

CF 6.145 GHz 691 pts 1.0 ms/

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	3.1739 ms	88.42 dBμV		
D2	M1	1	2.9855 ms	-2.33 dB		
D3	M1	1	3.0435 ms	-0.02 dB		

Date: 8 APR 2023 11:50:07

802.11ax (160MHz)

Spectrum

Ref Level 107.00 dBμV Offset 10.00 dB RBW 10 MHz
Att 10 dB SWT 10 ms VBW 10 MHz
SGL

1Pk Clrw

100 dBμV M1 -0.07 dB 3.0406 ms
90 dBμV D3[1] 97.45 dBμV 1.4087 ms

CF 6.185 GHz 691 pts 1.0 ms/

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1	1	1	1.4087 ms	97.45 dBμV		
D2	M1	1	2.9681 ms	-1.04 dB		
D3	M1	1	3.0406 ms	-0.07 dB		

Date: 8 APR 2023 16:33:09

Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Duty Cycle

Test Date : 2023/04/01

Beamforming_NSS-1

Mode	Time On (ms)	Time On + Time Off (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 ax20	9.0000	9.2899	96.88	0.14
802.11 ax40	8.7681	9.2029	95.28	0.21
802.11 ax80	9.0580	9.5652	94.70	0.24
802.11 ax160	10.4348	11.0145	94.74	0.23

Note:

Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

Beamforming NSS-1



Product : Wireless-AXE11000 Tri-band Gigabit Router,
 ROG Rapture Tri-band Gaming Router,
 ROG Rapture GT-AXE11000 tri-band Gaming Router,
 WiFi 6E ROG Rapture GT-AXE11000 Tri-band Gaming Router

Test Item : Duty Cycle

Test Date : 2023/04/01

Beamforming_NSS-2

Mode	Time On (ms)	Time On + Time Off (ms)	Duty Cycle (%)	Duty Factor (dB)
802.11 ax20	10.7910	11.1594	96.70	0.15
802.11 ax40	9.5652	10.0000	95.65	0.19
802.11 ax80	10.6522	10.9420	97.35	0.12
802.11 ax160	10.9420	11.2319	97.42	0.11

Note:

Offset = $20 \log(1/\text{duty cycle})$

Accotding to KDB 789033

If power averaging (rms) mode was used in step (iv) above, the correction factor is $10 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB must be added to the measured emission levels.

If linear voltage averaging mode was used in step (iv) above, the correction factor is $20 \log (1/x)$, where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

Beamforming NSS 2

