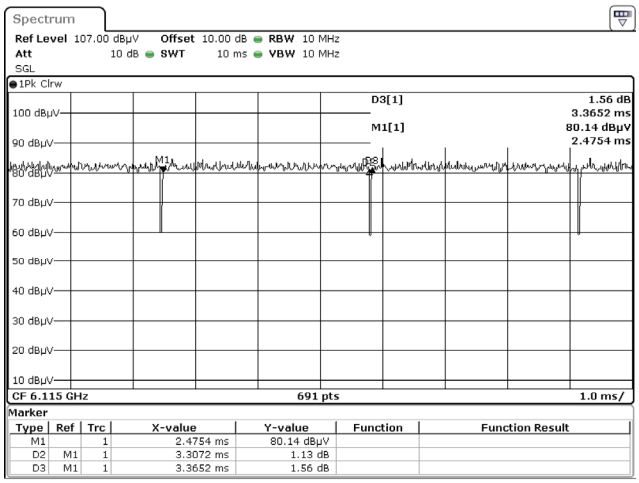
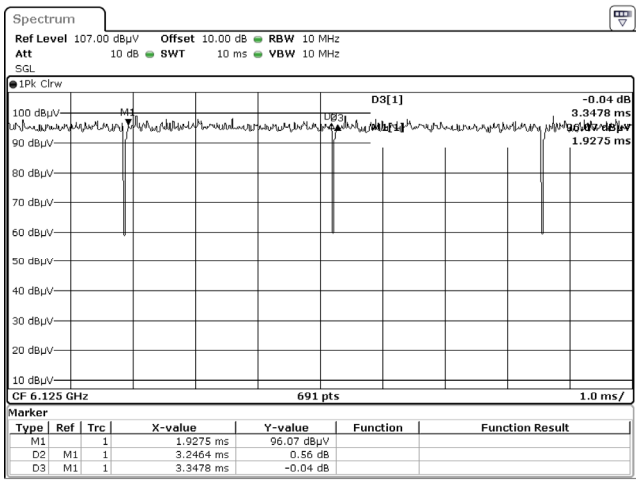
Non-Beamforming_NSS-1

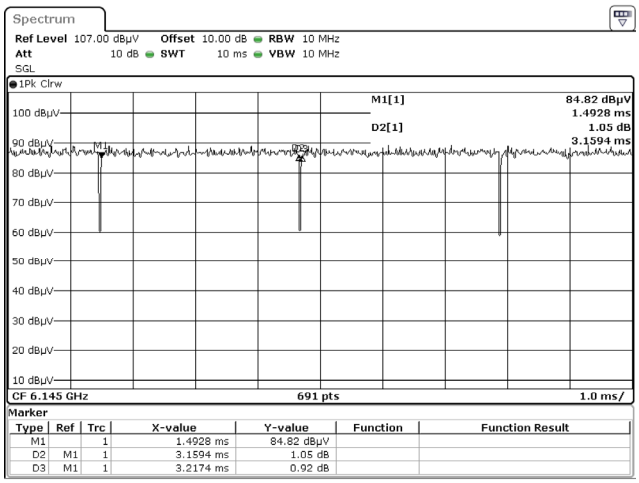
802.11ax (20MHz)



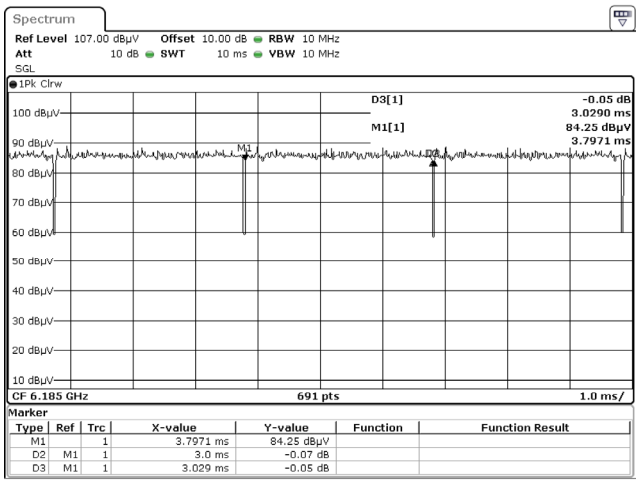
802.11ax (40MHz)



802.11ax (80MHz)



802.11ax (160MHz)



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/duty cycle)

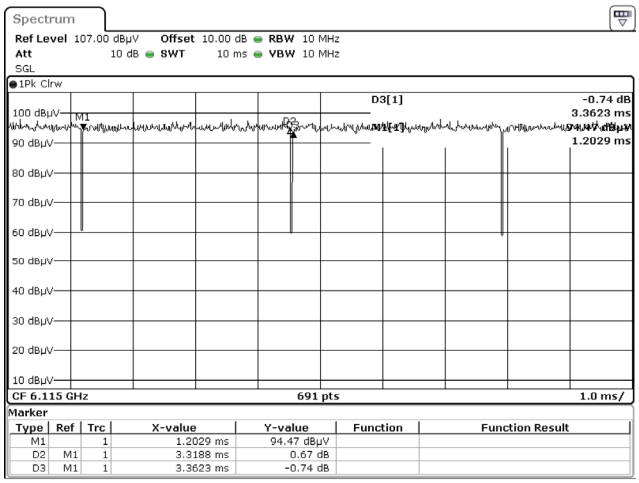
Accotding to KDB 789033

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.

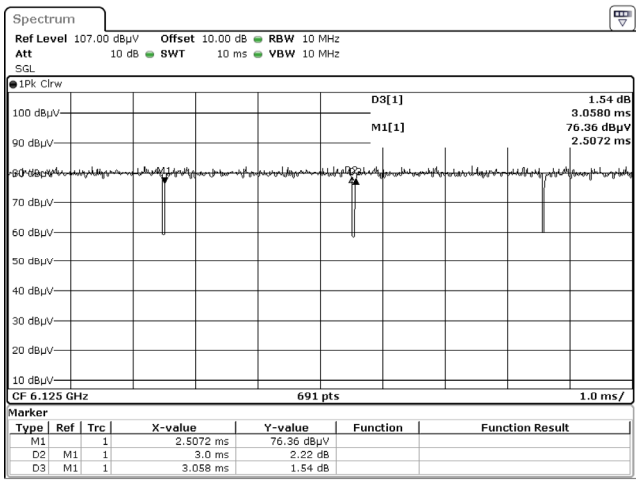
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

Non-Beamforming_NSS 4

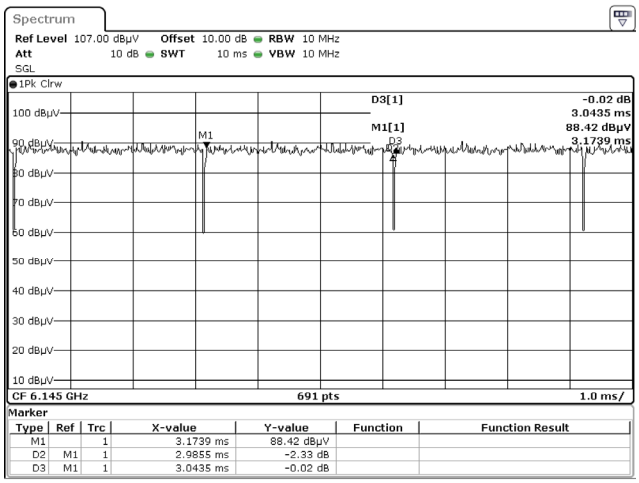
802.11ax (20MHz)



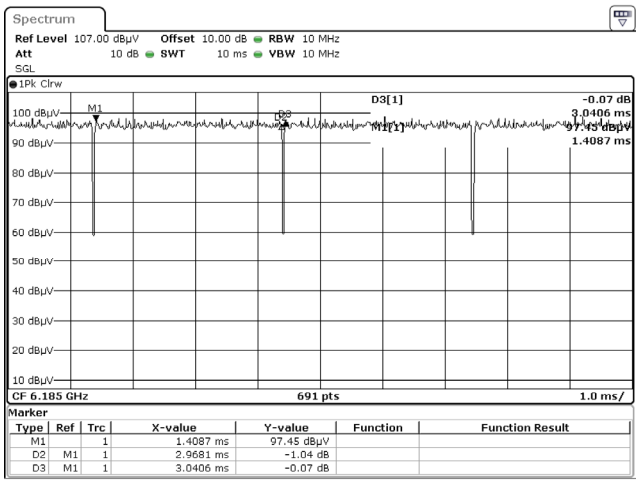
802.11ax (40MHz)



802.11ax (80MHz)



802.11ax (160MHz)



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/duty cycle)

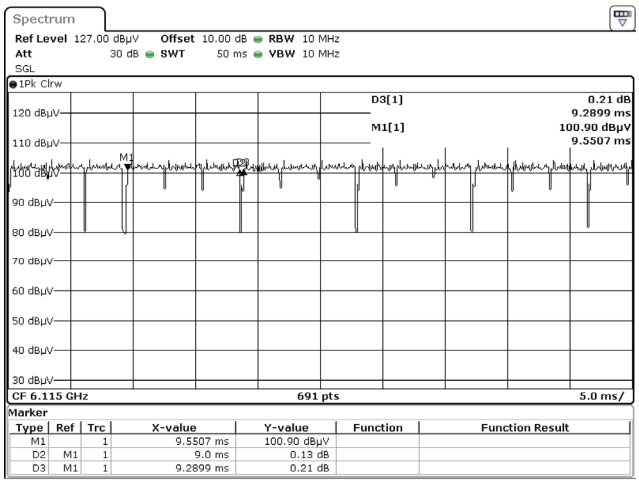
Accotding to KDB 789033

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.

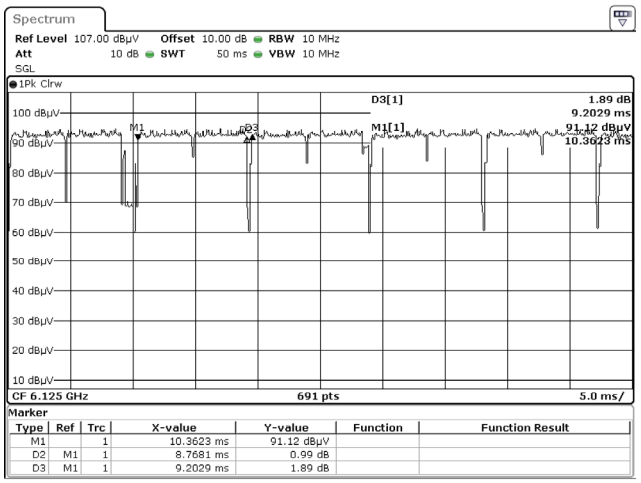
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

Beamforming_NSS-1

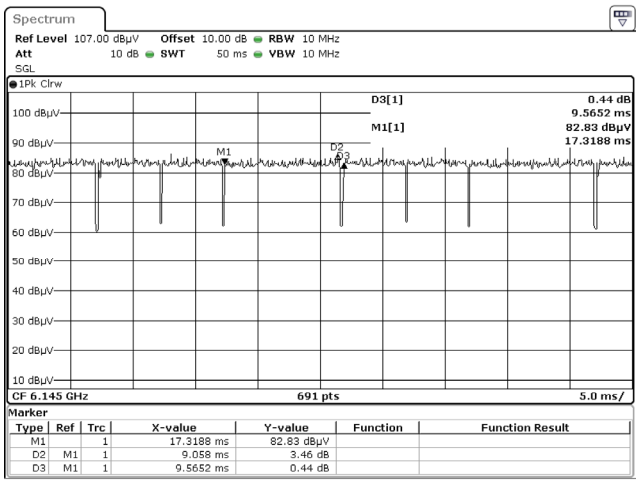
802.11ax (20MHz)



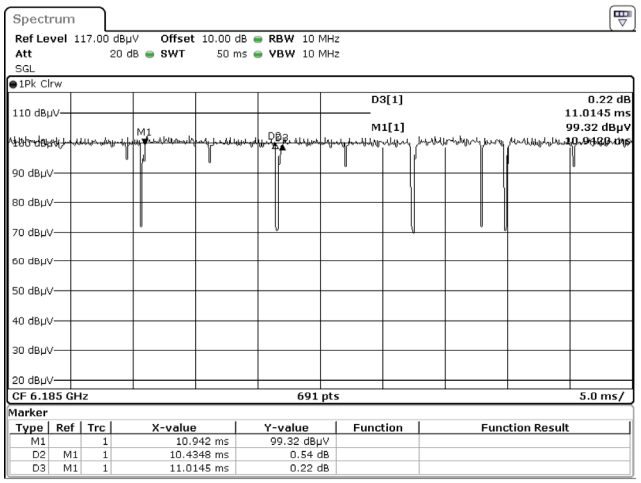
802.11ax (40MHz)



802.11ax (80MHz)



802.11ax (160MHz)



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/duty cycle)

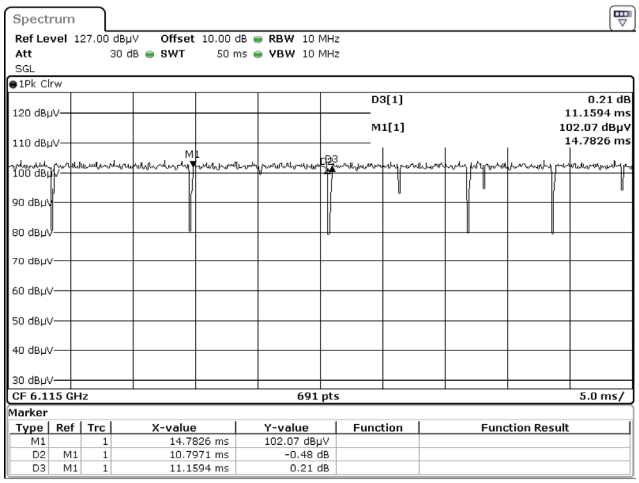
Accotding to KDB 789033

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.

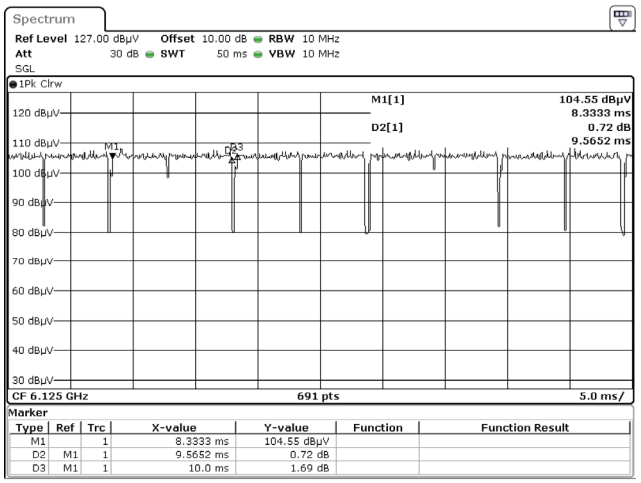
If linear voltage averaging mode was used in step (iv) above, the correction factor is 20 log (1/x), where x is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB must be added to the measured emission levels.

Beamforming_NSS 2

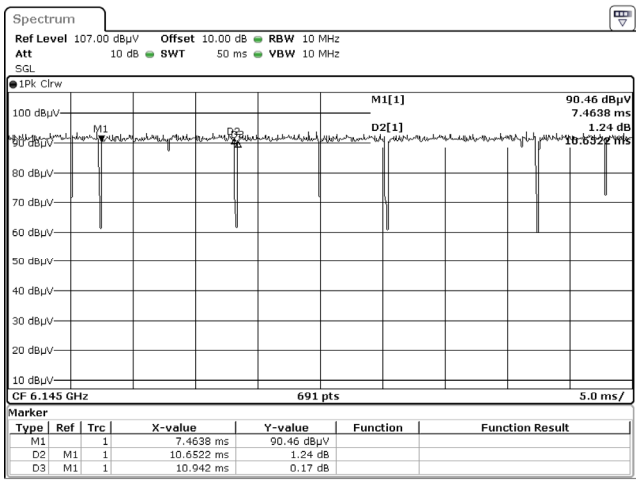
802.11ax (20MHz)



802.11ax (40MHz)



802.11ax (80MHz)



802.11ax (160MHz)