



Appendix A

20dB bandwidth measurement

According to FCC Part 15.247 (a) (1)

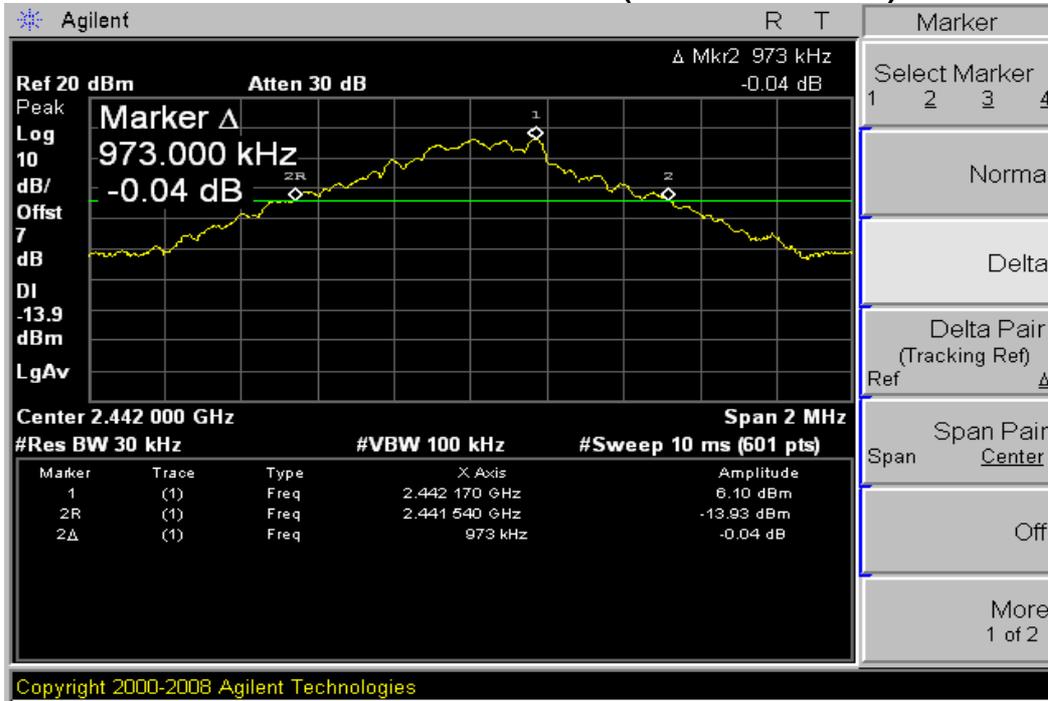


Channel 0 (2402MHz)



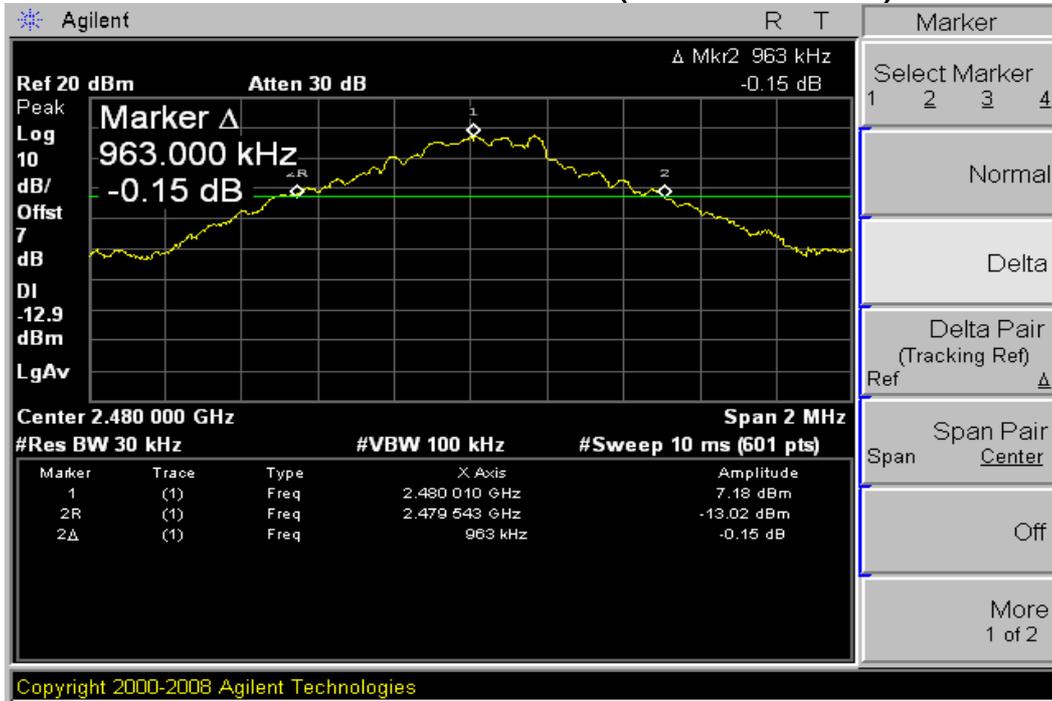


Channel 40 (2442MHz)





Channel 78 (2480MHz)





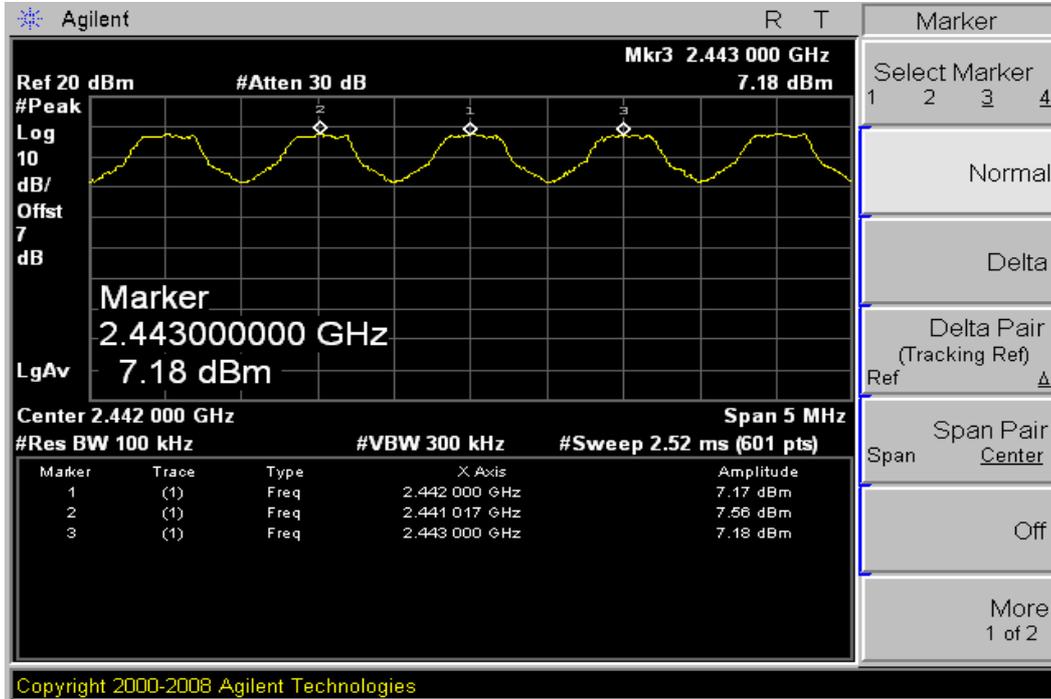
Appendix B

Carrier frequency separation measurement

According to FCC Part 15.247 (a) (1)



Centred at Channel 40





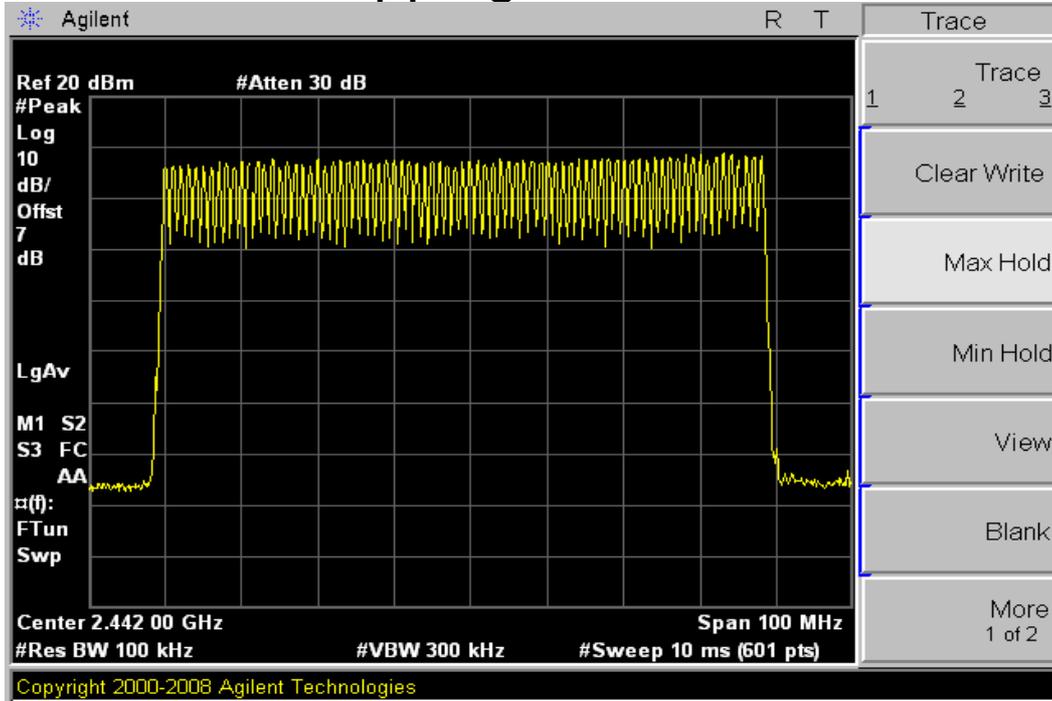
Appendix C

Number of hopping channel

According to FCC Part 15.247 (a) (1) iii



Total hopping channels = 79





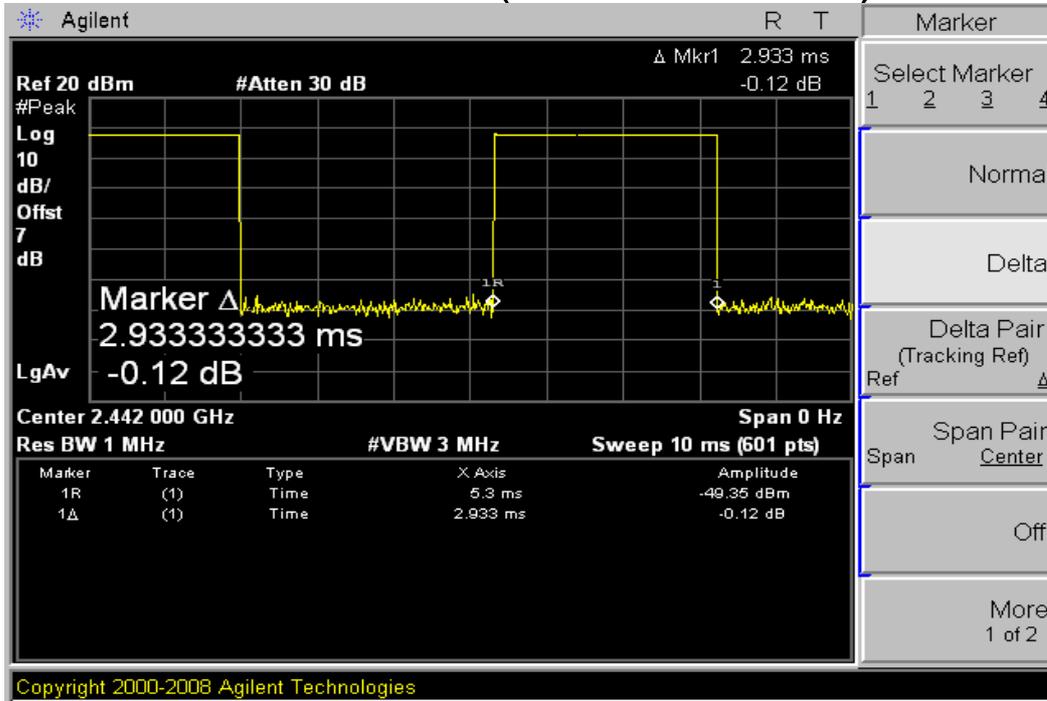
Appendix D

Time of occupancy

According to FCC Part 15.247 (a) (1) iii

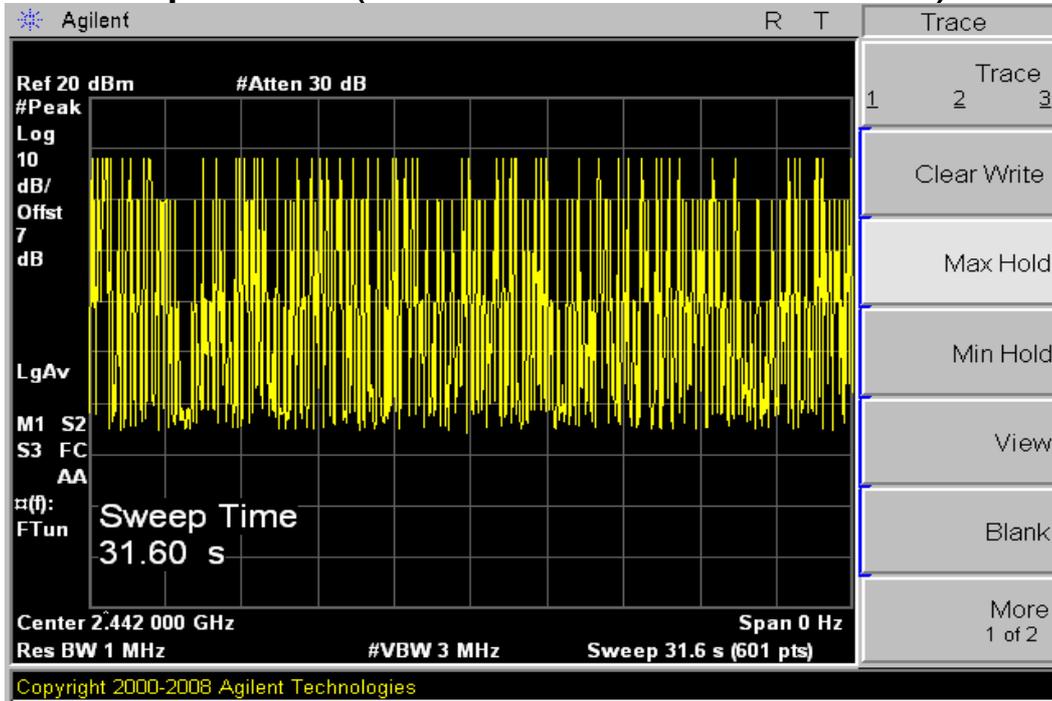


A burst (One time slot)





A period (Less than 106.7 burst)





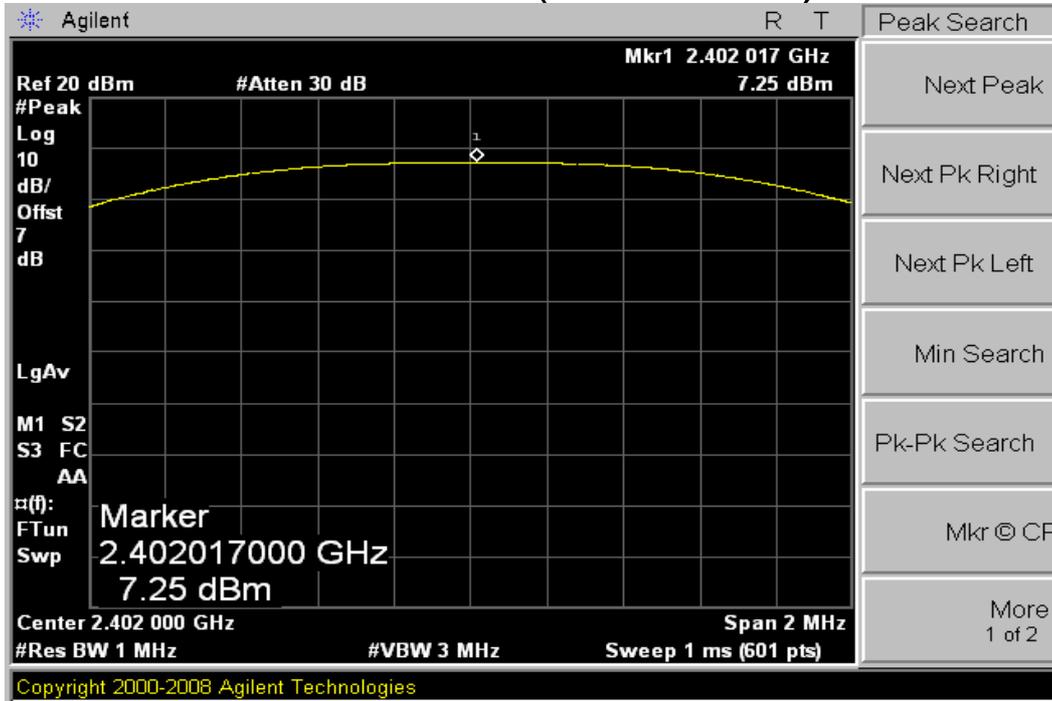
Appendix E

Peak output power

According to FCC Part 15.247 (b) (1)

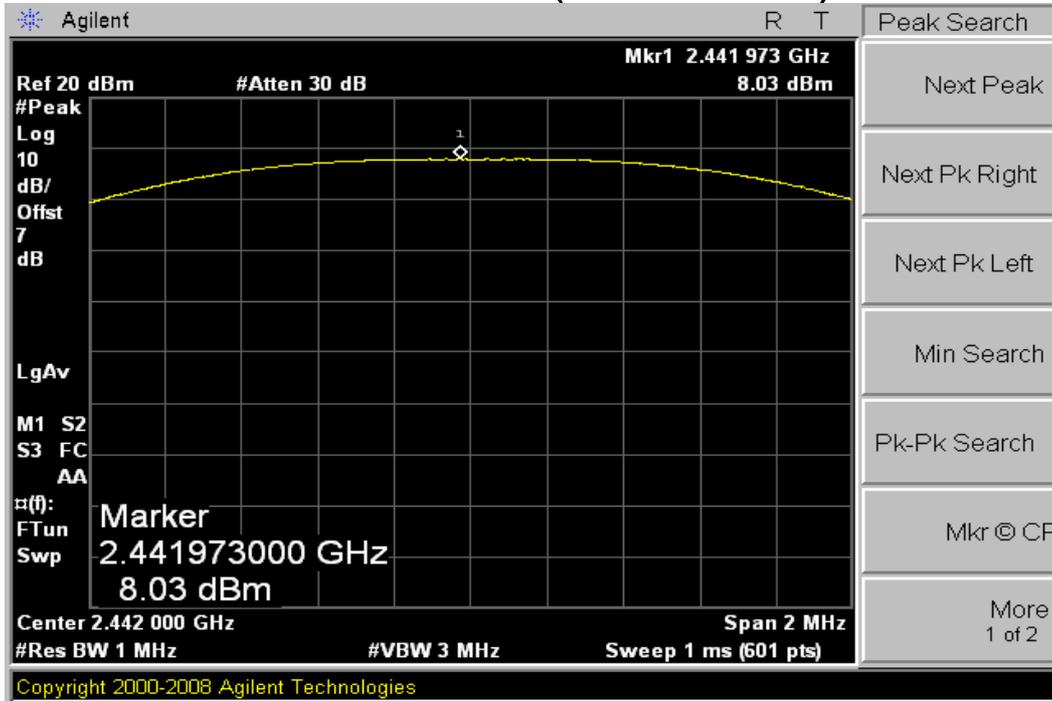


Channel 0 (2402MHz)



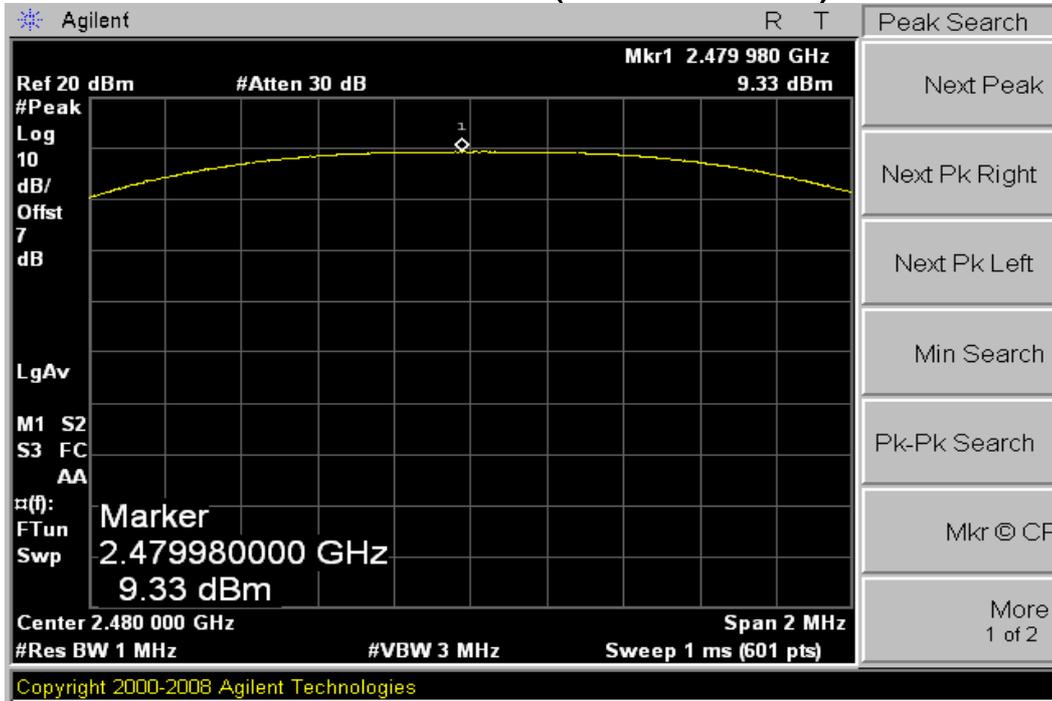


Channel 40 (2442MHz)





Channel 78 (2480MHz)





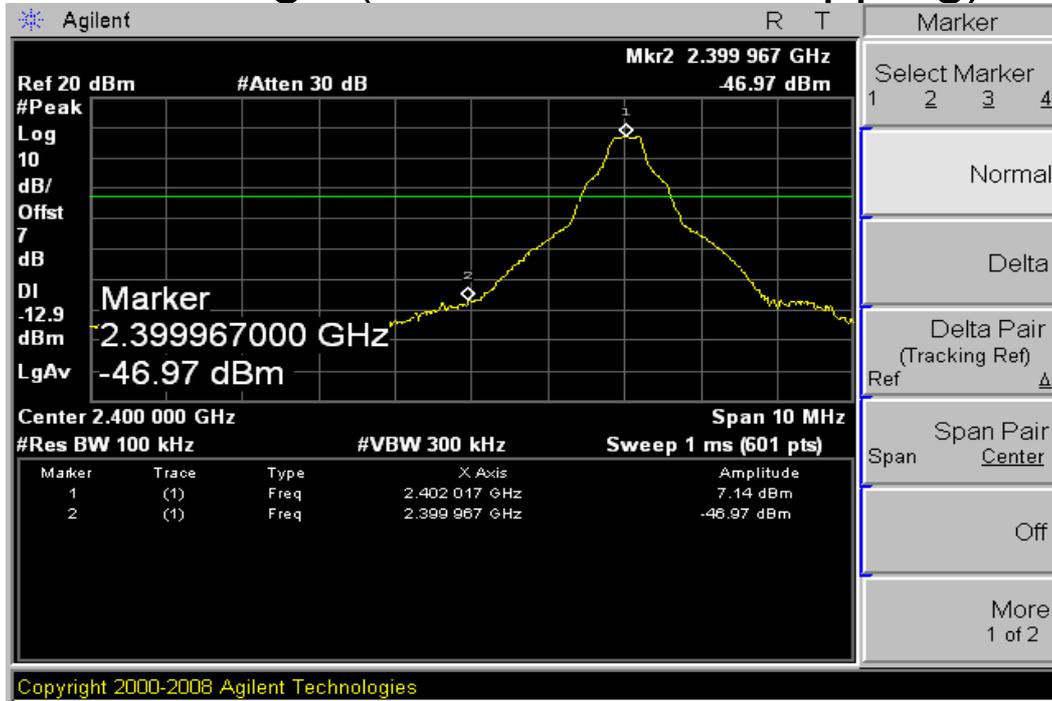
Appendix F

Band edge spurious emission

According to FCC Part 15.247 (d)

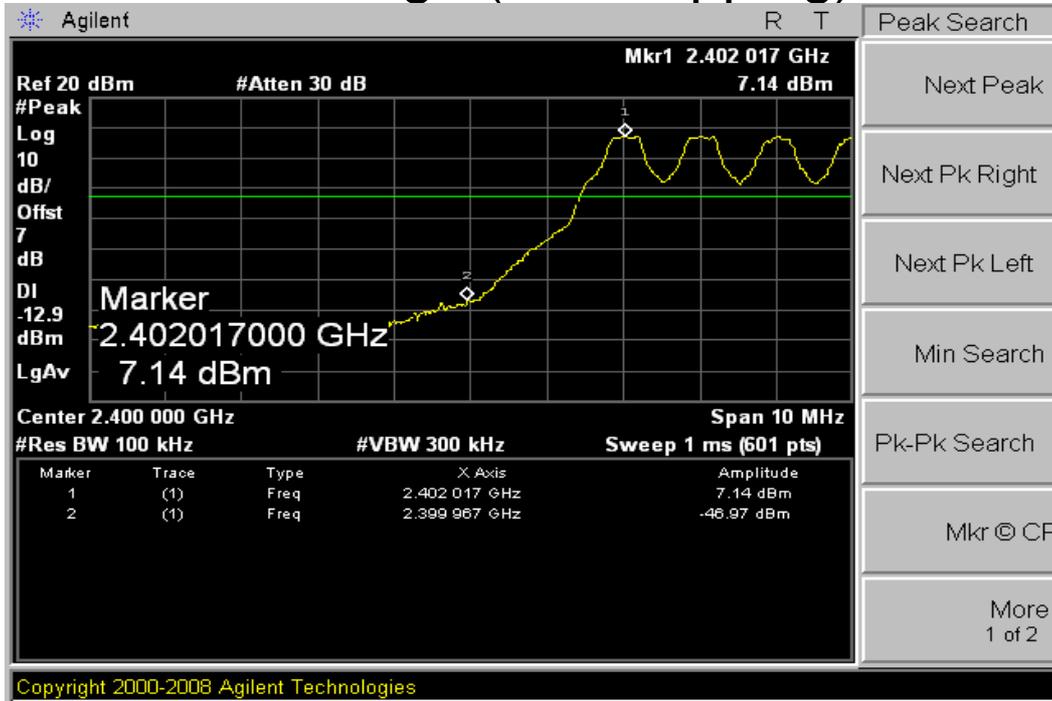


Low edge (Channel 0, no hopping)



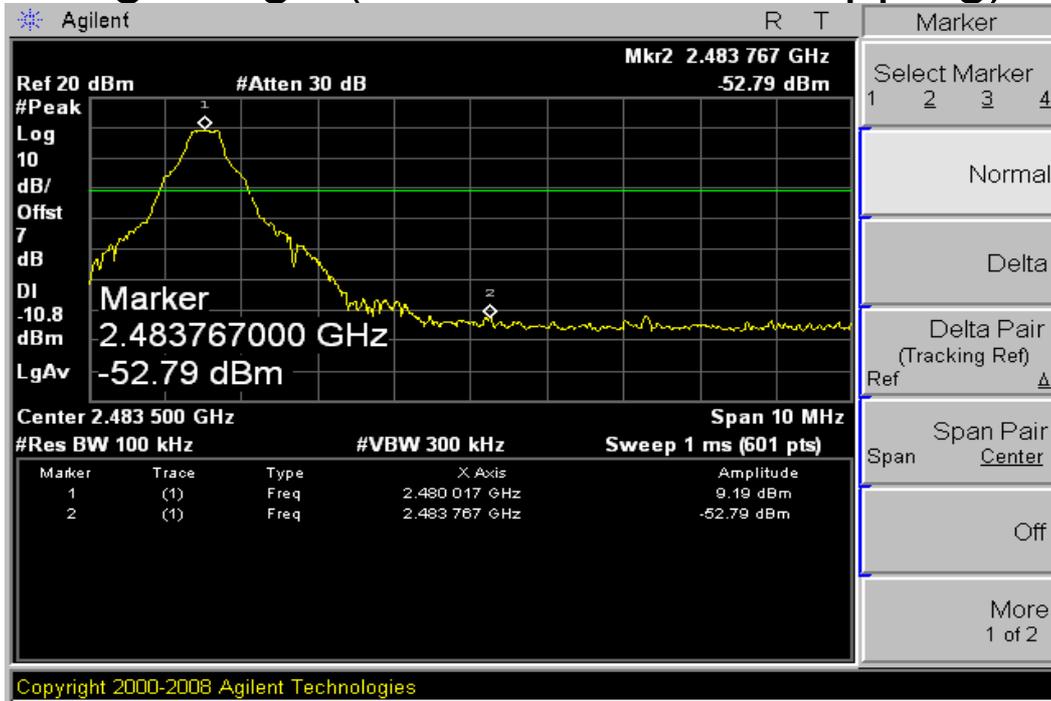


Low edge (with hopping)



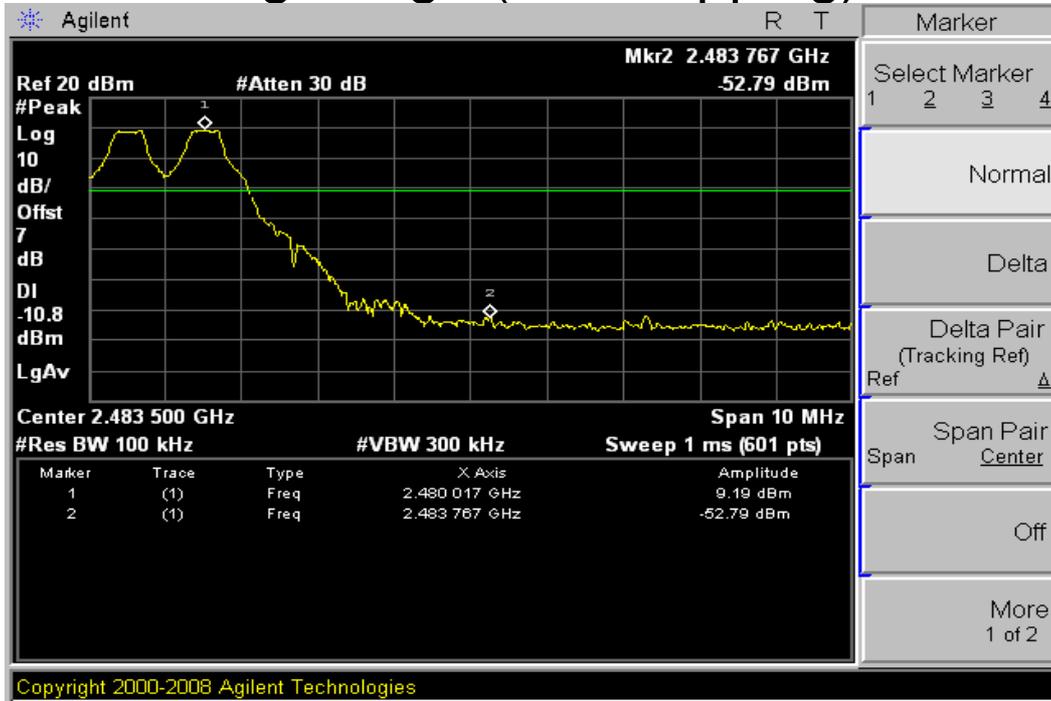


High edge (Channel 78, no hopping)





High edge (with hopping)





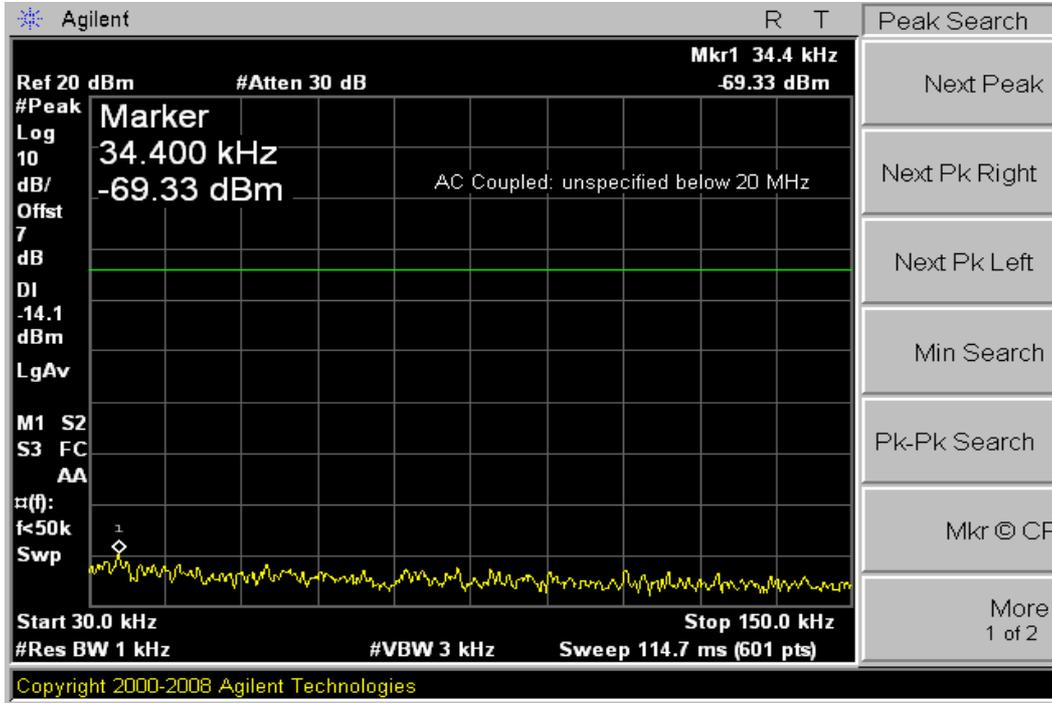
Appendix G

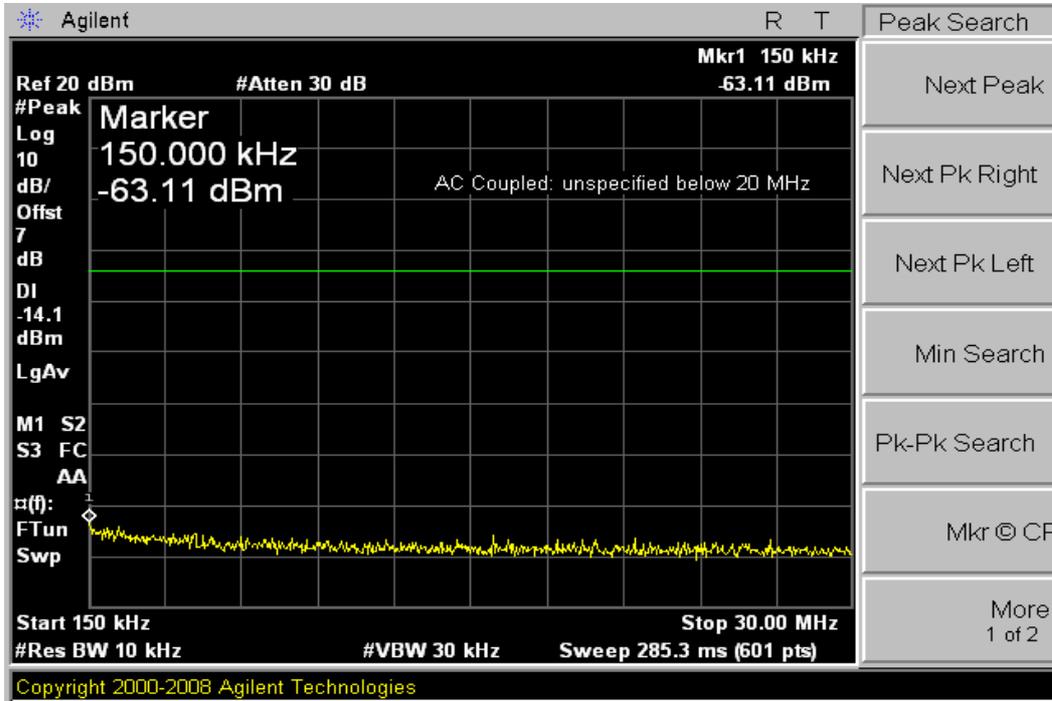
Conducted RF spurious

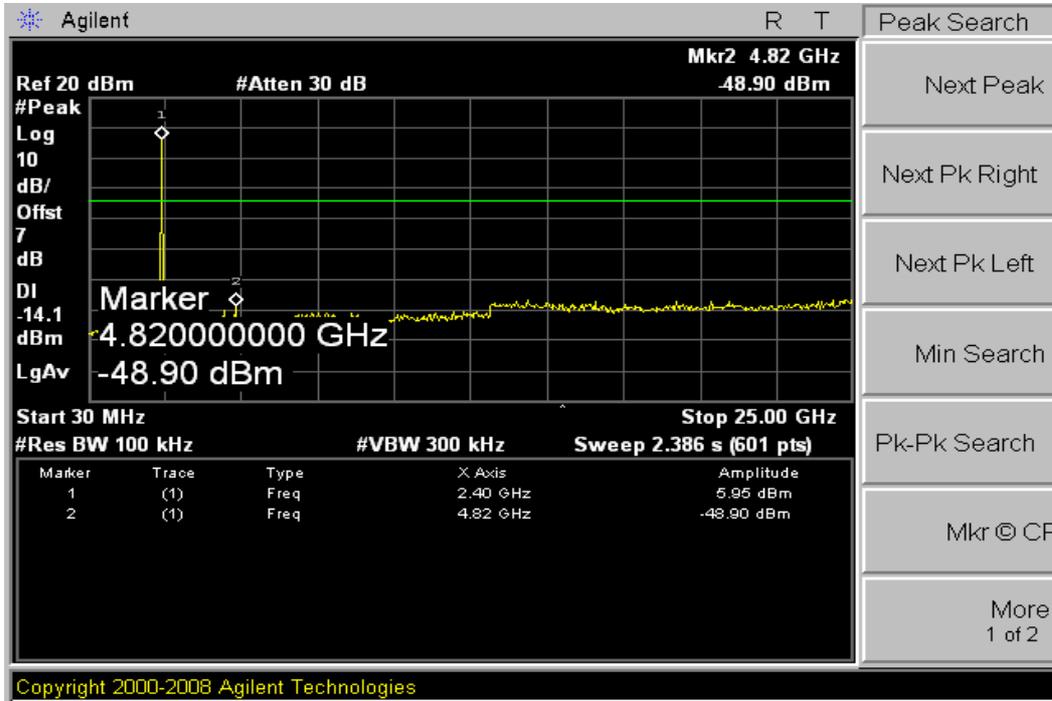
According to FCC Part 15.247 (d)



Channel 0



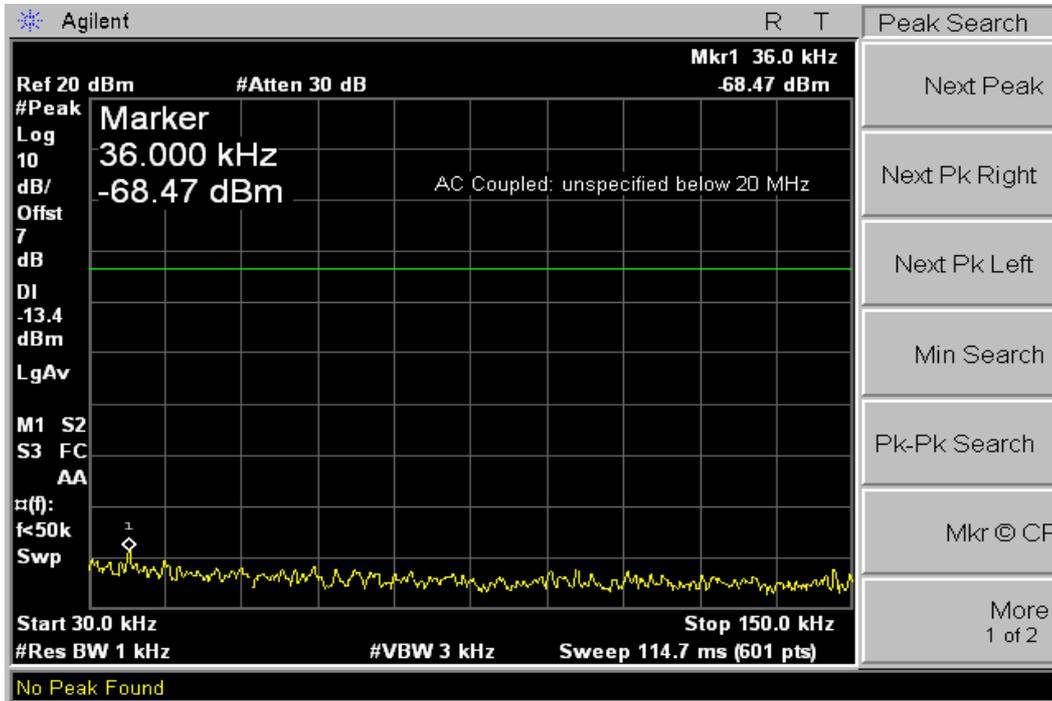


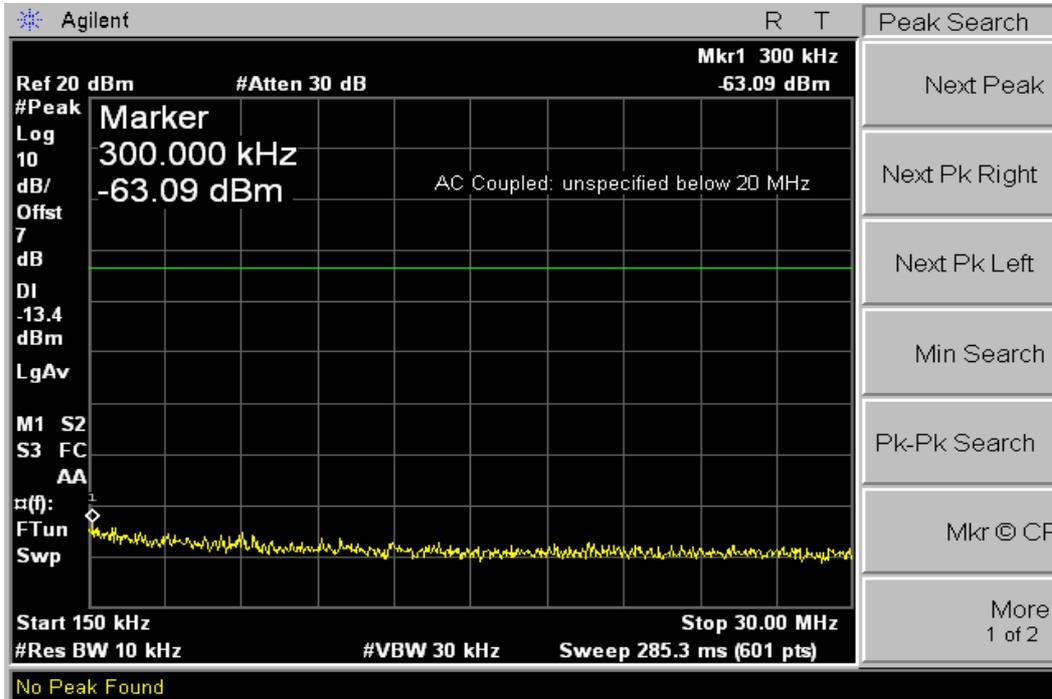


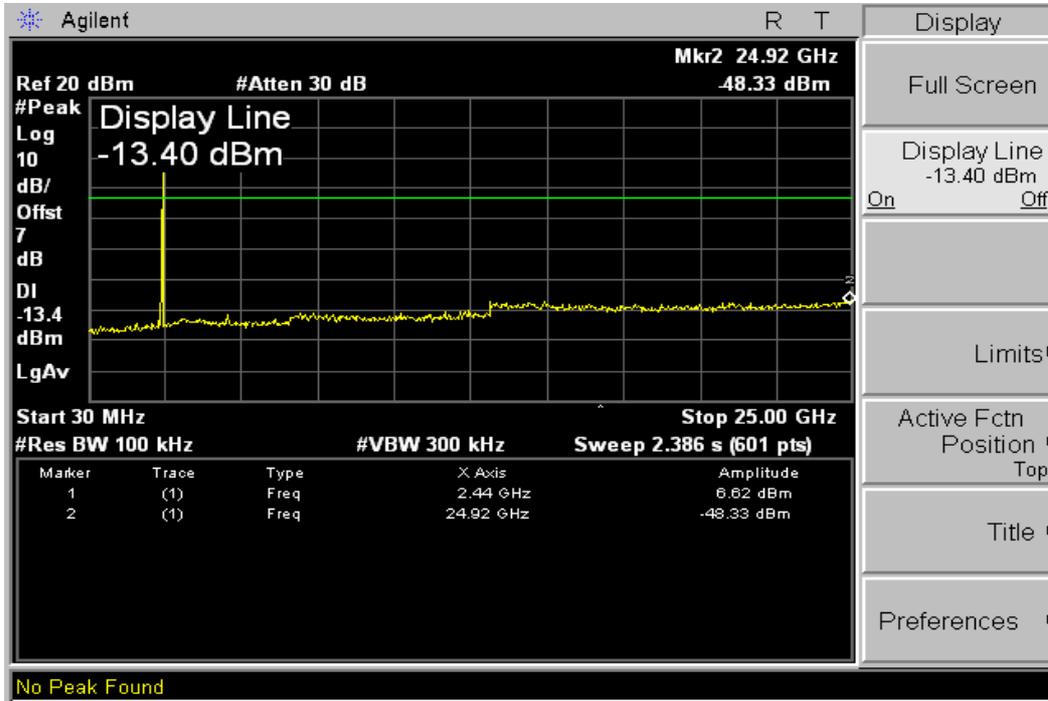
Copyright 2000-2008 Agilent Technologies



Channel 40

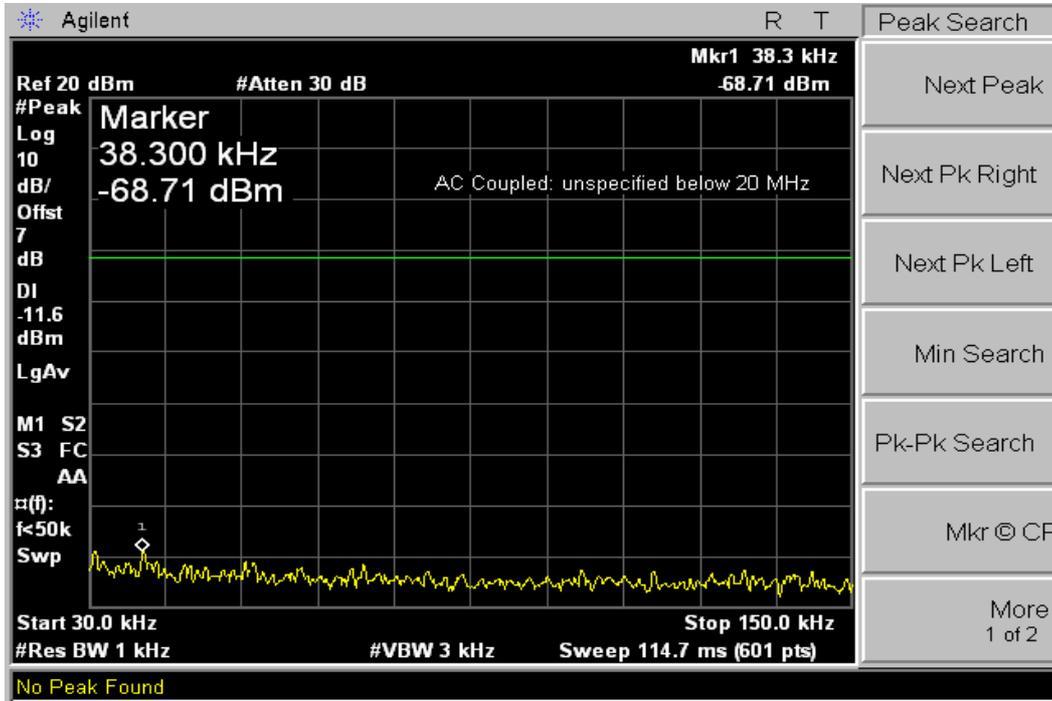


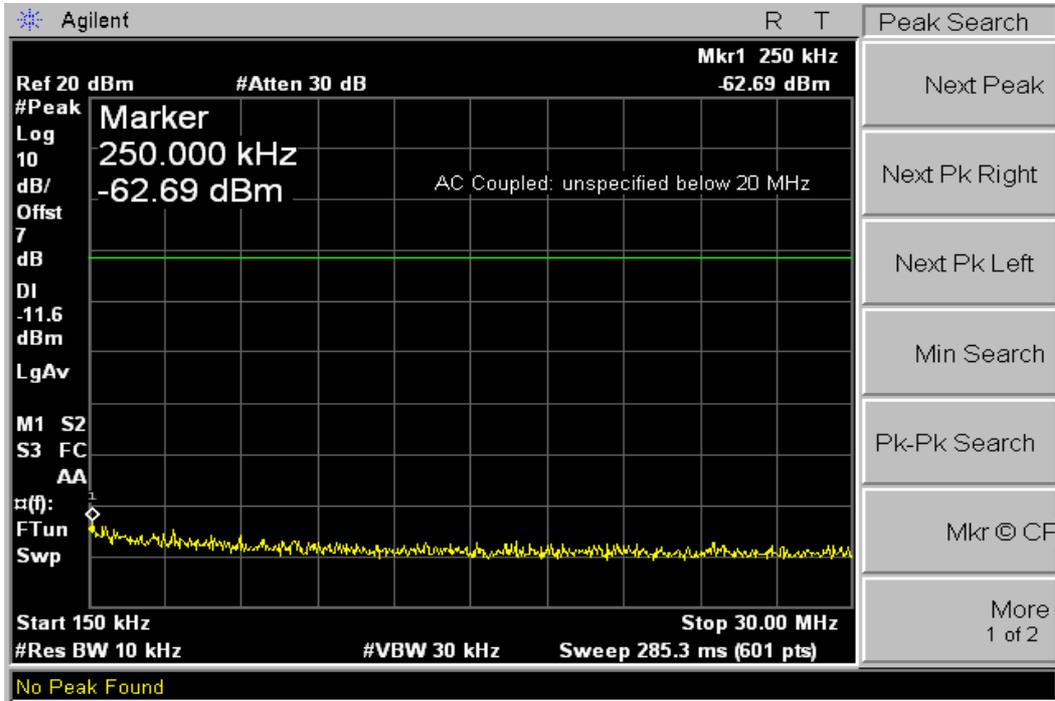


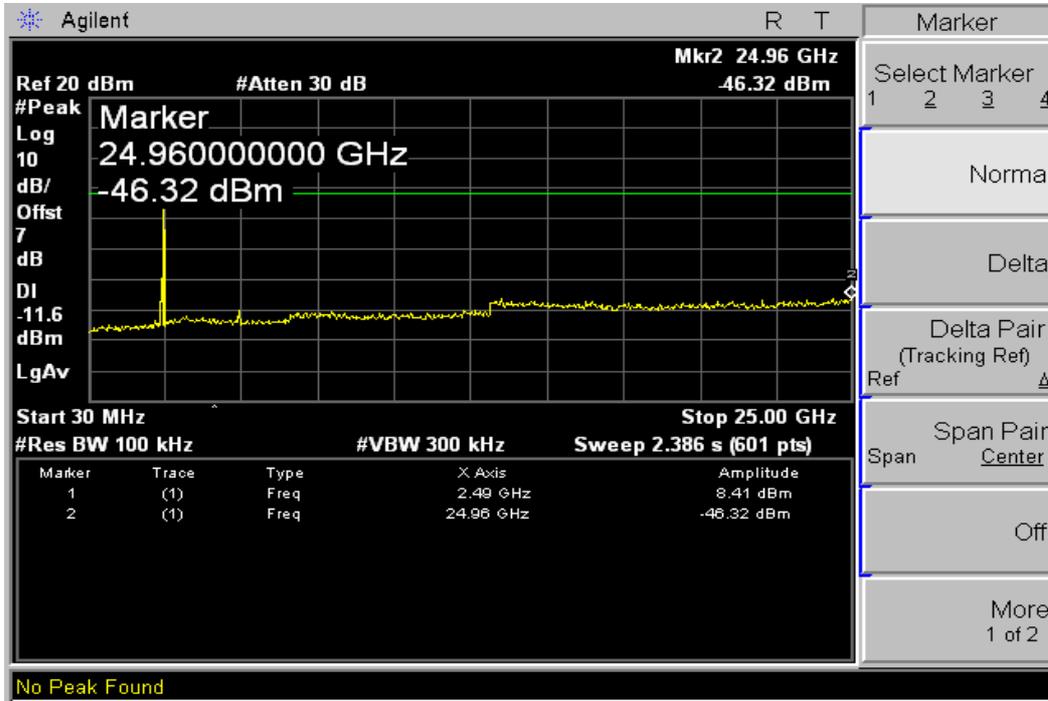




Channel 78









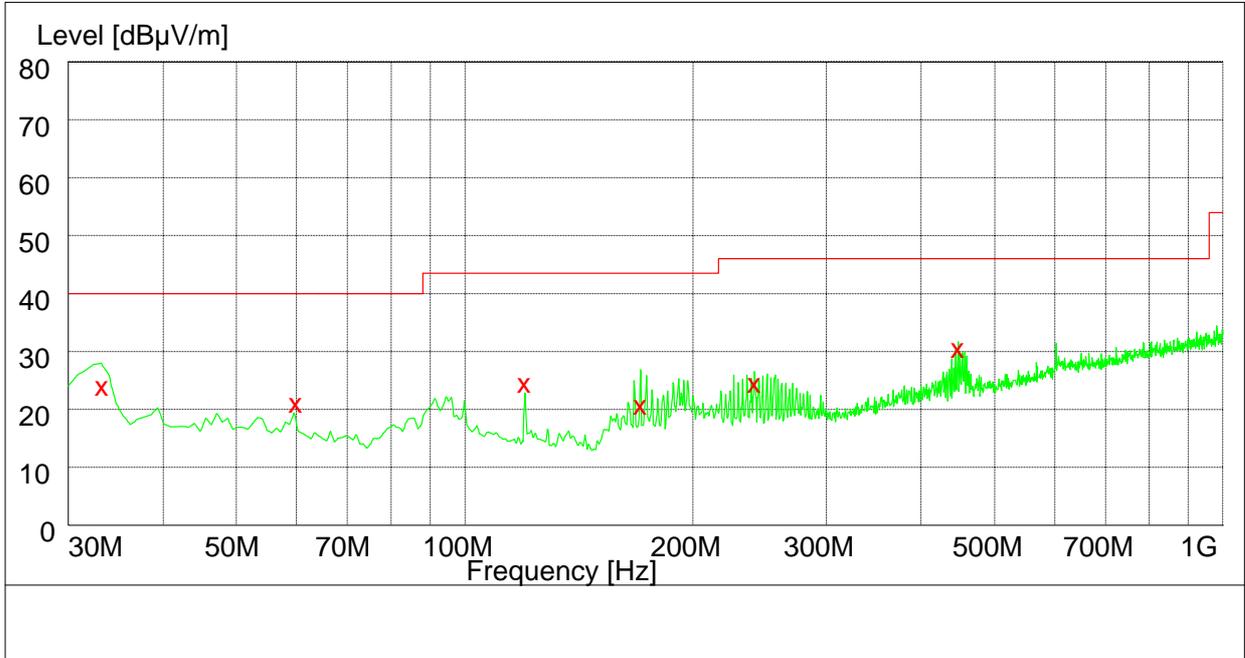
Appendix H

Radiated spurious emission

According to FCC Part 15.247 (d) & 15.205 & 15.209



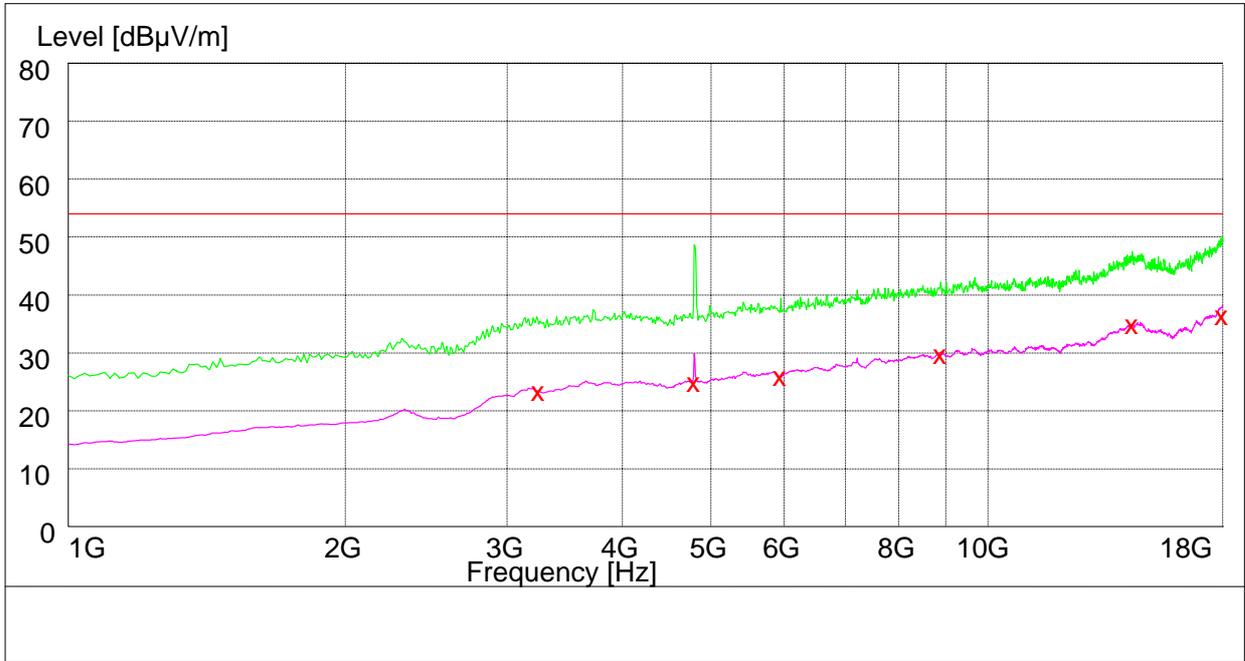
Channel 0 30MHz to 1GHz



| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Plarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|-------------|
| 33.300000 | 23.90 | 11.7 | 40.0 | 16.1 | 102.0 | 137.00 | HORIZONTAL |
| 60.000000 | 20.80 | 12.3 | 40.0 | 19.2 | 125.0 | 283.00 | HORIZONTAL |
| 120.000000 | 25.30 | 10.6 | 43.5 | 18.2 | 104.0 | 236.00 | HORIZONTAL |
| 170.760000 | 20.60 | 10.1 | 43.5 | 22.9 | 100.0 | 102.00 | HORIZONTAL |
| 241.380000 | 24.30 | 14.0 | 46.0 | 21.7 | 126.0 | 253.00 | VERTICAL |
| 447.540000 | 30.40 | 18.9 | 46.0 | 15.6 | 100.0 | 232.00 | VERTICAL |



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 3248.000000 | 23.20 | -8.2 | 54.0 | 30.8 | 185.0 | 158.00 | VERTICAL |
| 4795.500000 | 24.60 | -4.1 | 54.0 | 29.4 | 180.0 | 357.00 | VERTICAL |
| 5944.500000 | 25.70 | -1.7 | 54.0 | 28.3 | 103.0 | 357.00 | VERTICAL |
| 8889.000000 | 29.60 | 3.9 | 54.0 | 24.4 | 155.0 | 264.00 | VERTICAL |
| 14352.000000 | 34.60 | 11.9 | 54.0 | 19.4 | 200.0 | 315.00 | VERTICAL |
| 17972.000000 | 37.60 | 17.1 | 54.0 | 16.4 | 191.0 | 194.00 | VERTICAL |

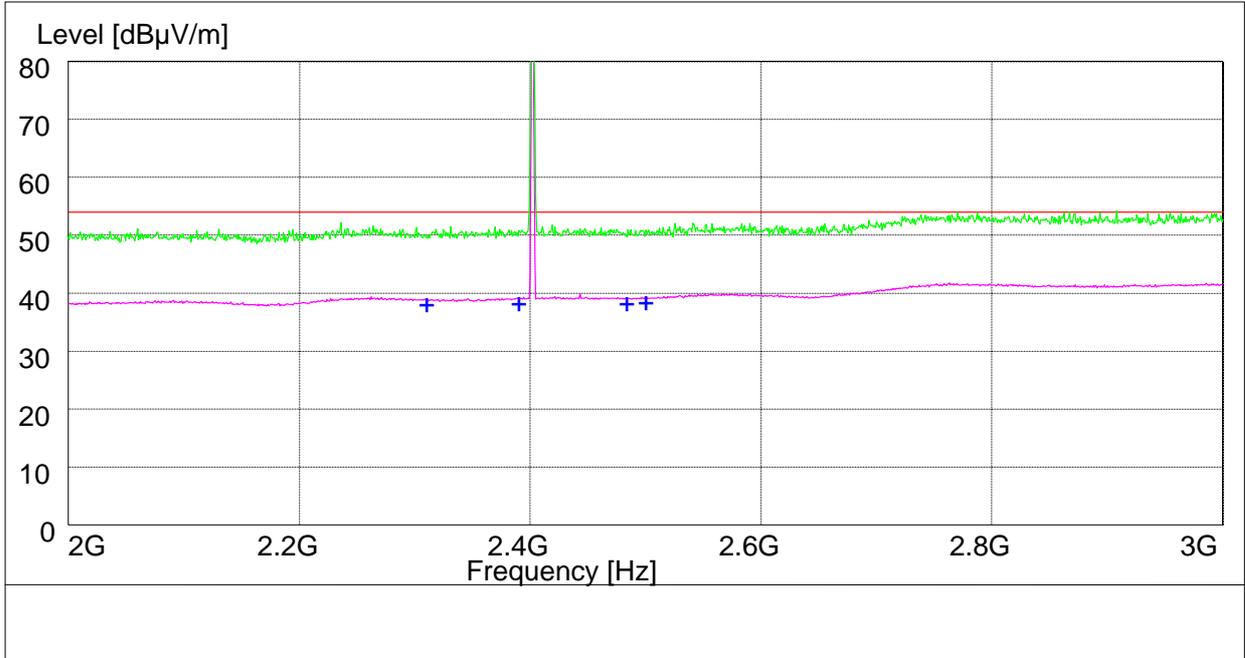


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz

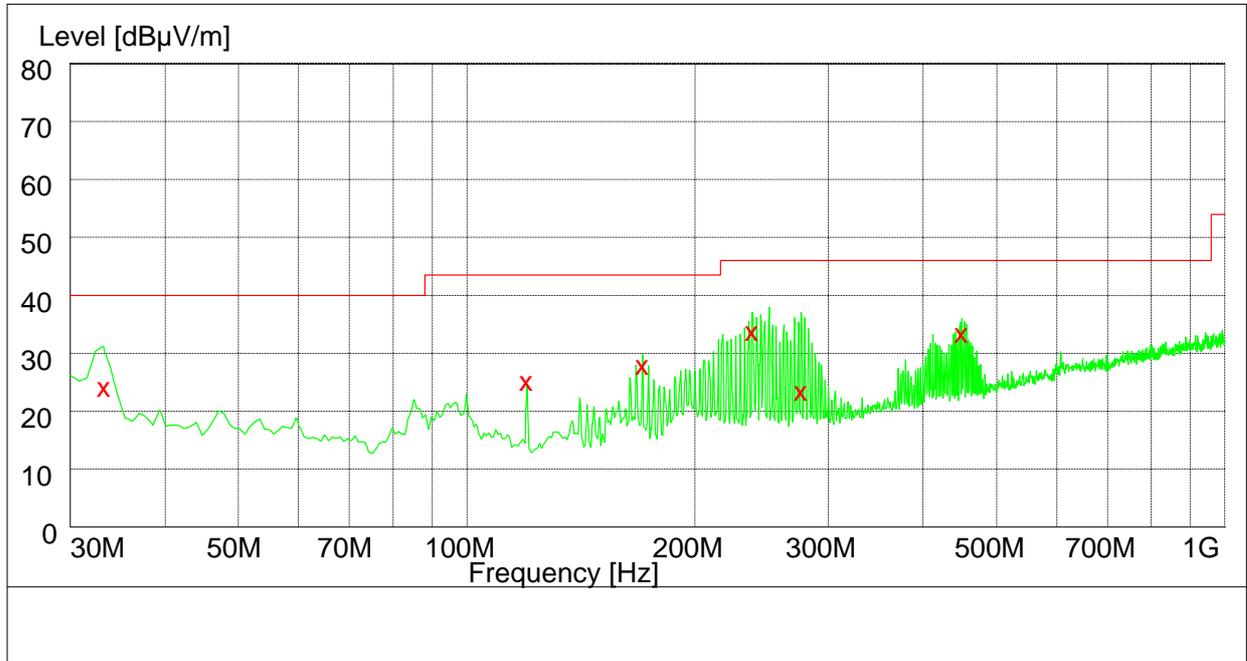


Note: The highest peak exceeds the limit line is carrier frequency.

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 2310.000000 | 38.30 | 33.3 | 54.0 | 15.7 | 100.0 | 67.00 | VERTICAL |
| 2390.000000 | 38.50 | 33.5 | 54.0 | 15.5 | 121.0 | 340.00 | VERTICAL |
| 2483.500000 | 38.40 | 33.7 | 54.0 | 15.6 | 145.0 | 133.00 | HORIZONTAL |
| 2500.000000 | 38.70 | 33.8 | 54.0 | 15.3 | 100.0 | 44.00 | VERTICAL |



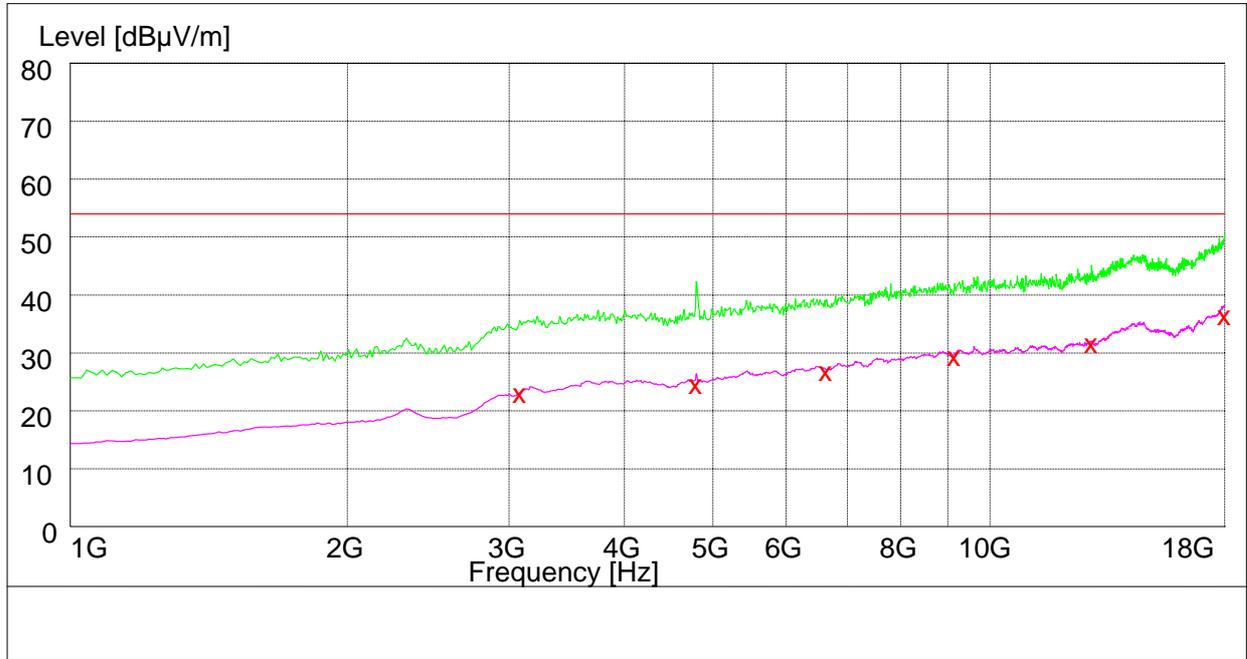
Channel 40 30MHz to 1GHz



| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 33.300000 | 24.30 | 11.7 | 40.0 | 15.7 | 100.0 | 144.00 | HORIZONTAL |
| 120.000000 | 25.30 | 10.6 | 43.5 | 18.2 | 100.0 | 243.00 | HORIZONTAL |
| 170.760000 | 28.00 | 10.1 | 43.5 | 15.5 | 100.0 | 115.00 | HORIZONTAL |
| 238.440000 | 34.00 | 14.0 | 46.0 | 12.0 | 113.0 | 244.00 | VERTICAL |
| 276.480000 | 23.70 | 14.9 | 46.0 | 22.3 | 140.0 | 248.00 | VERTICAL |
| 450.300000 | 33.60 | 18.9 | 46.0 | 12.4 | 100.0 | 211.00 | VERTICAL |



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 3085.500000 | 23.20 | -8.8 | 54.0 | 30.8 | 198.0 | 41.00 | VERTICAL |
| 4790.000000 | 24.70 | -4.1 | 54.0 | 29.3 | 165.0 | 0.00 | HORIZONTAL |
| 6636.000000 | 26.80 | -0.8 | 54.0 | 27.2 | 105.0 | 349.00 | HORIZONTAL |
| 9147.500000 | 29.50 | 4.4 | 54.0 | 24.5 | 161.0 | 1.00 | VERTICAL |
| 12900.500000 | 31.70 | 8.7 | 54.0 | 22.3 | 125.0 | 213.00 | VERTICAL |
| 17999.000000 | 37.60 | 17.3 | 54.0 | 16.4 | 149.0 | 114.00 | VERTICAL |

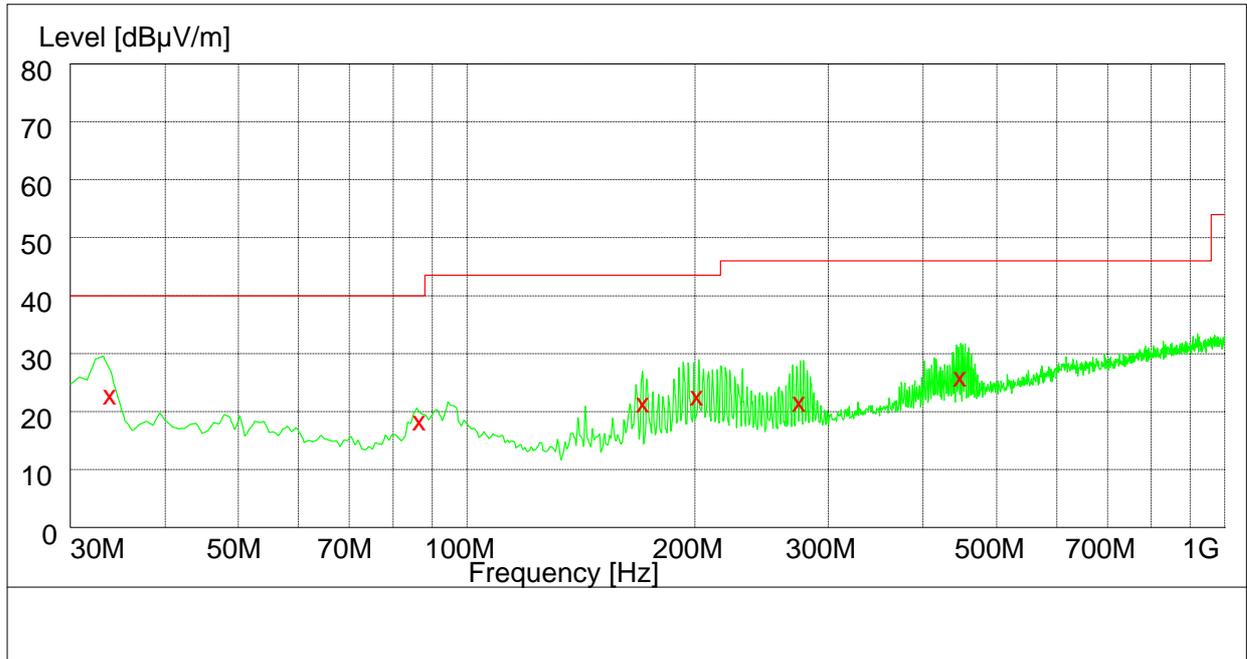


18GHz to 26GHz

Note: No peak found in pre- test.



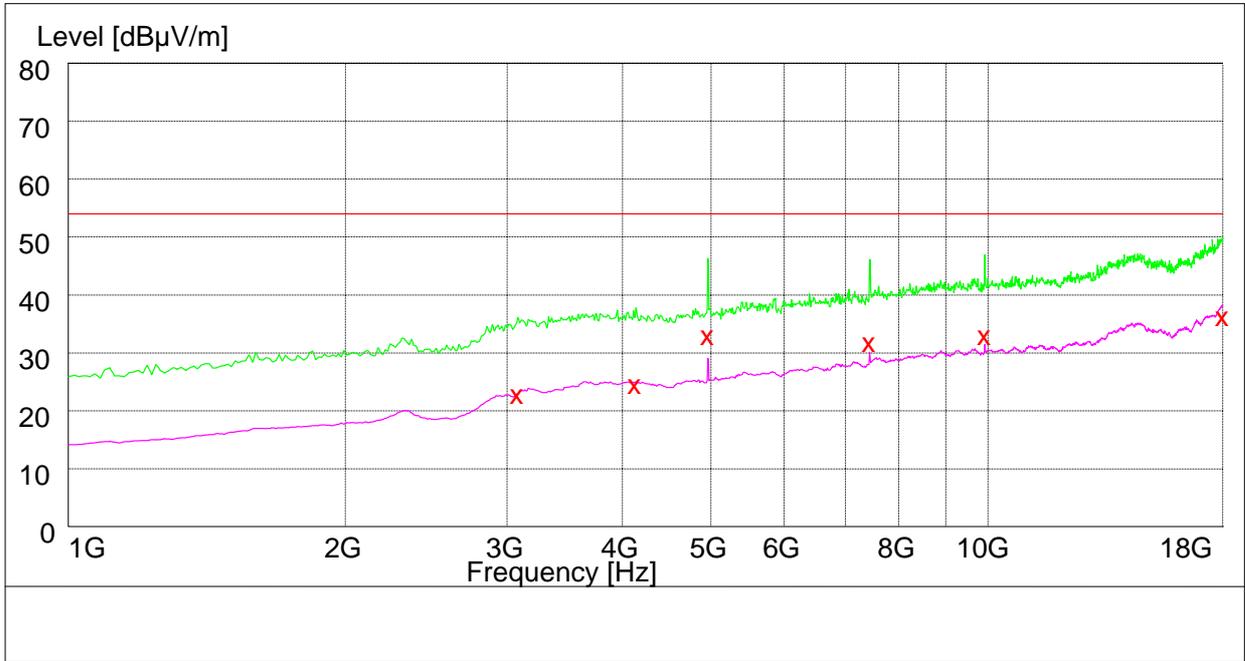
Channel 78 30MHz to 1GHz



| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 33.900000 | 23.10 | 11.7 | 40.0 | 16.9 | 100.0 | 217.00 | HORIZONTAL |
| 86.760000 | 18.60 | 10.7 | 40.0 | 21.4 | 122.0 | 360.00 | HORIZONTAL |
| 171.120000 | 21.50 | 10.1 | 43.5 | 22.0 | 100.0 | 80.00 | HORIZONTAL |
| 201.420000 | 22.70 | 12.1 | 43.5 | 20.8 | 164.0 | 271.00 | VERTICAL |
| 274.860000 | 21.70 | 14.8 | 46.0 | 24.3 | 100.0 | 226.00 | VERTICAL |
| 448.200000 | 26.10 | 18.9 | 46.0 | 19.9 | 107.0 | 360.00 | VERTICAL |



1GHz to 18GHz



Note: Signal suppressed with a 2.4 GHz band rejection filter

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 3079.500000 | 23.00 | -8.9 | 54.0 | 31.0 | 100.0 | 312.00 | HORIZONTAL |
| 4136.500000 | 24.60 | -5.7 | 54.0 | 29.4 | 199.0 | 343.00 | HORIZONTAL |
| 4960.500000 | 33.20 | -3.8 | 54.0 | 20.8 | 115.0 | 77.00 | HORIZONTAL |
| 7439.500000 | 31.90 | 1.2 | 54.0 | 22.1 | 100.0 | 338.00 | HORIZONTAL |
| 9920.000000 | 33.20 | 5.1 | 54.0 | 20.8 | 100.0 | 325.00 | HORIZONTAL |
| 17996.500000 | 37.40 | 17.3 | 54.0 | 16.6 | 177.0 | 164.00 | VERTICAL |

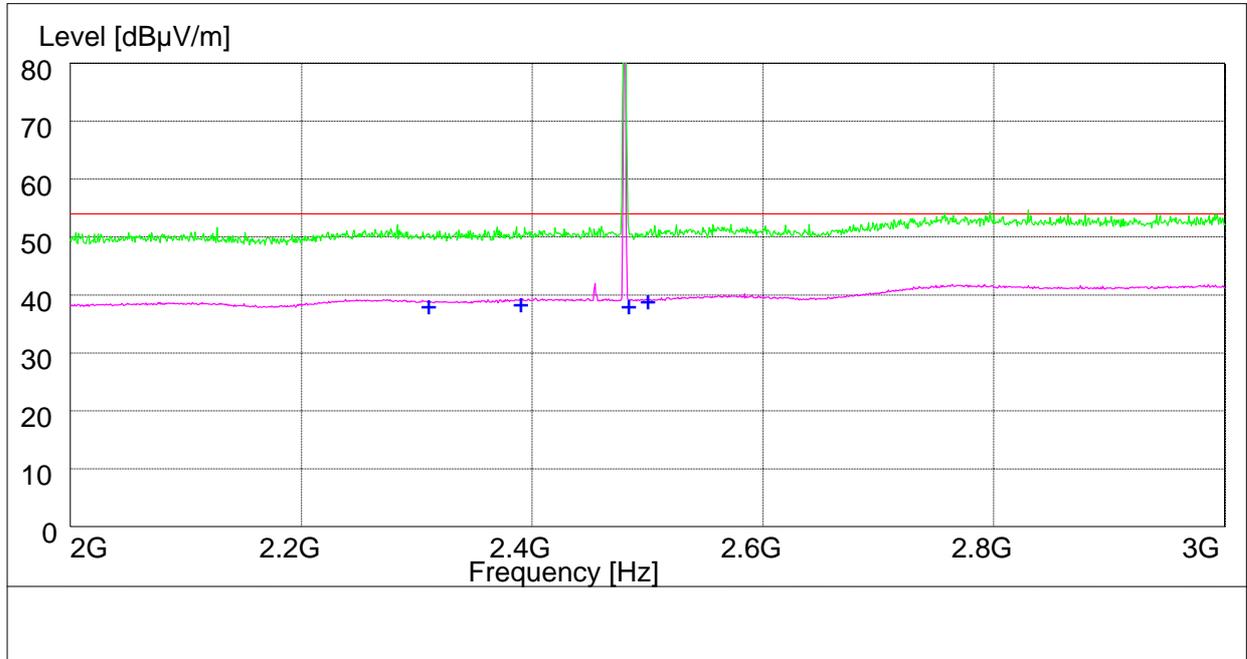


18GHz to 26GHz

Note: No peak found in pre- test.



2GHz to 3GHz



Note: The peak exceeds the limit line is carrier frequency.

| Frequency MHz | Level dBµV/m | Transd dB | Limit dBµV/m | Margin dB | Height cm | Azimuth deg | Polarization |
|---------------|--------------|-----------|--------------|-----------|-----------|-------------|--------------|
| 2310.000000 | 38.30 | 33.2 | 54.0 | 15.7 | 120.0 | 186.00 | VERTICAL |
| 2390.000000 | 38.60 | 33.5 | 54.0 | 15.4 | 167.0 | 87.00 | HORIZONTAL |
| 2483.500000 | 38.30 | 33.7 | 54.0 | 15.7 | 121.0 | 320.00 | VERTICAL |
| 2500.000000 | 39.10 | 33.7 | 54.0 | 14.9 | 105.0 | 113.00 | VERTICAL |



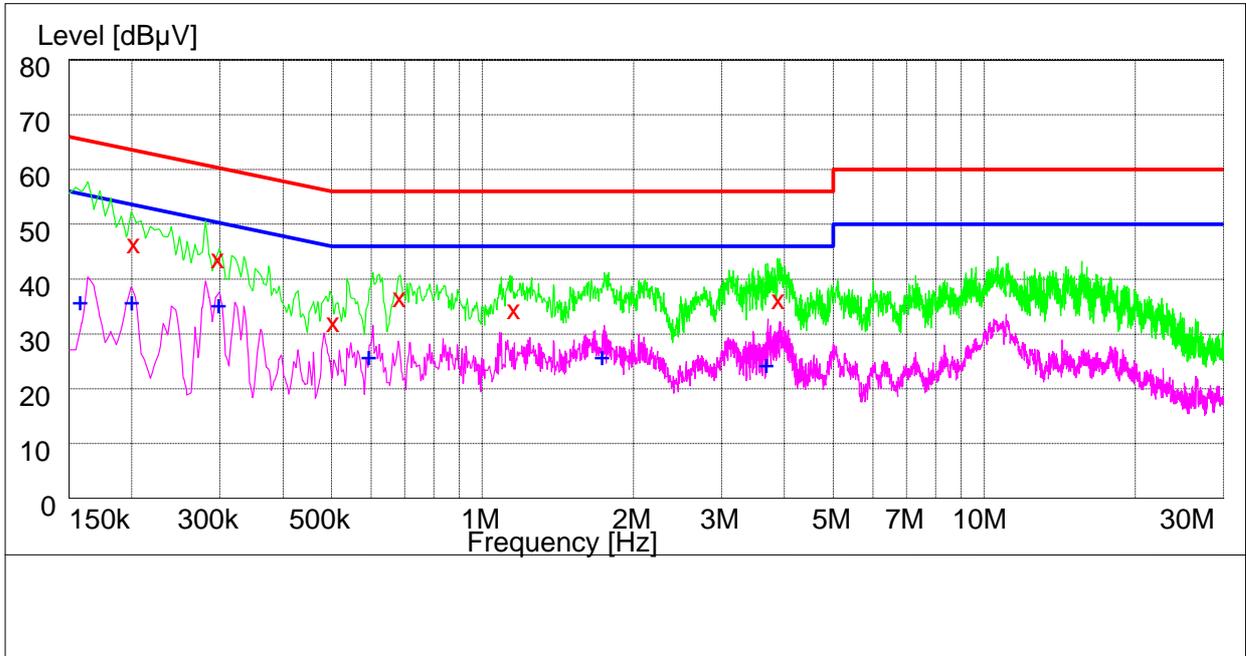
Appendix I

Conducted Emission at Power Port

According to FCC Part 15.207



Channel 40



MEASUREMENT RESULT: QP Detector

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.202000 | 46.60 | 10.1 | 64 | 17.4 | L1 | FLO |
| 0.298000 | 44.00 | 10.0 | 60 | 16.0 | N | FLO |
| 0.506000 | 32.40 | 10.1 | 56 | 23.6 | N | FLO |
| 0.686000 | 36.90 | 10.1 | 56 | 19.1 | N | FLO |
| 1.158000 | 34.70 | 10.1 | 56 | 21.3 | N | FLO |
| 3.904000 | 36.50 | 10.2 | 56 | 19.5 | L1 | FLO |

MEASUREMENT RESULT: AV Detector

| Frequency MHz | Level dBµV | Transd dB | Limit dBµV | Margin dB | Line | PE |
|---------------|------------|-----------|------------|-----------|------|-----|
| 0.158000 | 37.20 | 10.1 | 56 | 18.8 | N | FLO |
| 0.200000 | 37.30 | 10.1 | 56 | 18.7 | N | FLO |
| 0.298000 | 36.60 | 10.0 | 50 | 13.4 | N | FLO |
| 0.594000 | 27.20 | 10.1 | 46 | 18.8 | N | FLO |
| 1.732000 | 27.20 | 10.1 | 46 | 18.8 | L1 | FLO |
| 3.684000 | 25.80 | 10.2 | 46 | 20.2 | L1 | FLO |



Appendix J

Photos of Test Setup



1 Radiated Spurious Emissions



Radiated Spurious Emission (below 1GHz)



Radiated Spurious Emission (1GHz to18GHz)



Radiated Spurious Emission (above 18GHz)

2 Conducted Emissions



Conducted Emissions for AC Ports