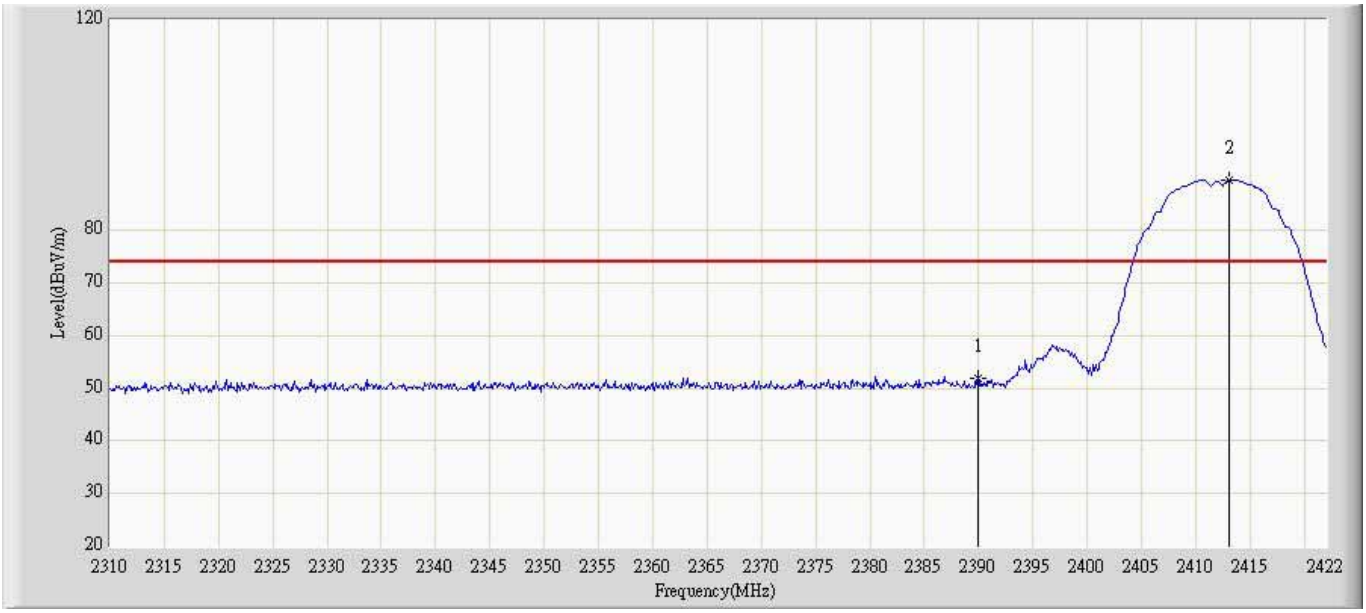
| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 51.825 | 16.184 | -22.175 | 74.000 | 35.642 | PK |
| 2 | | * | 2413.040 | 89.583 | 53.843 | N/A | N/A | 35.739 | PK |

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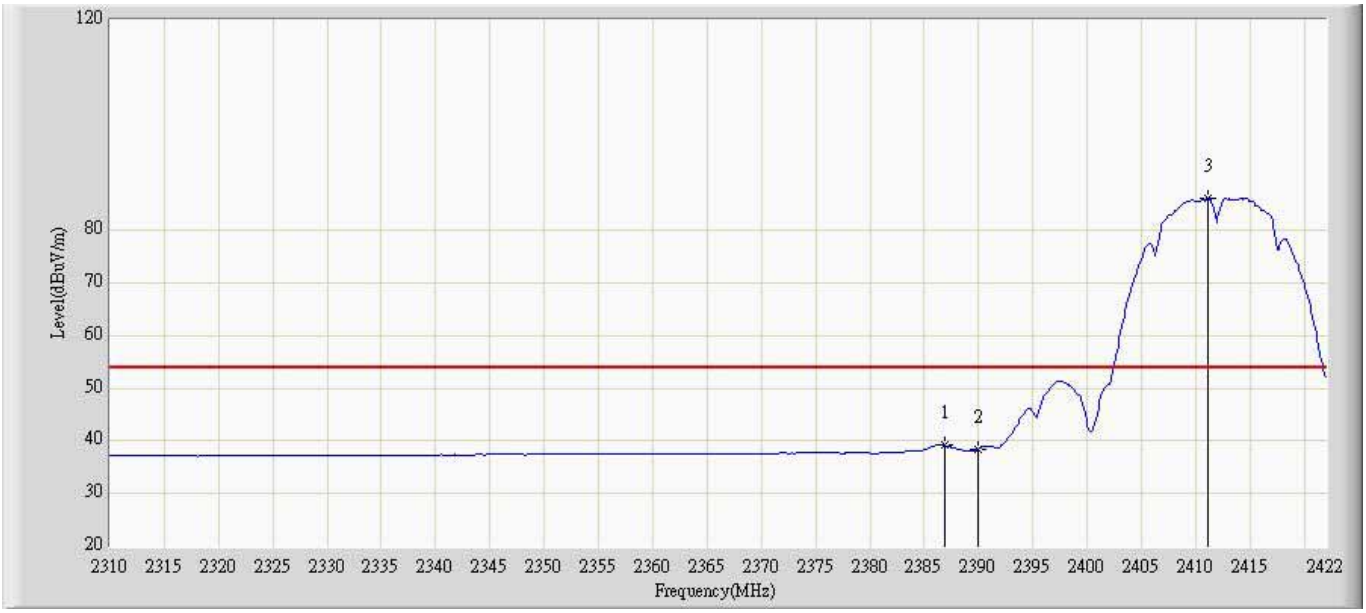
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2412MHz by 802.11b Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2386.832 | 39.115 | 3.487 | -14.885 | 54.000 | 35.628 | AV |
| 2 | | | 2390.000 | 38.474 | 2.833 | -15.526 | 54.000 | 35.642 | AV |
| 3 | | * | 2411.136 | 86.100 | 50.369 | N/A | N/A | 35.730 | AV |

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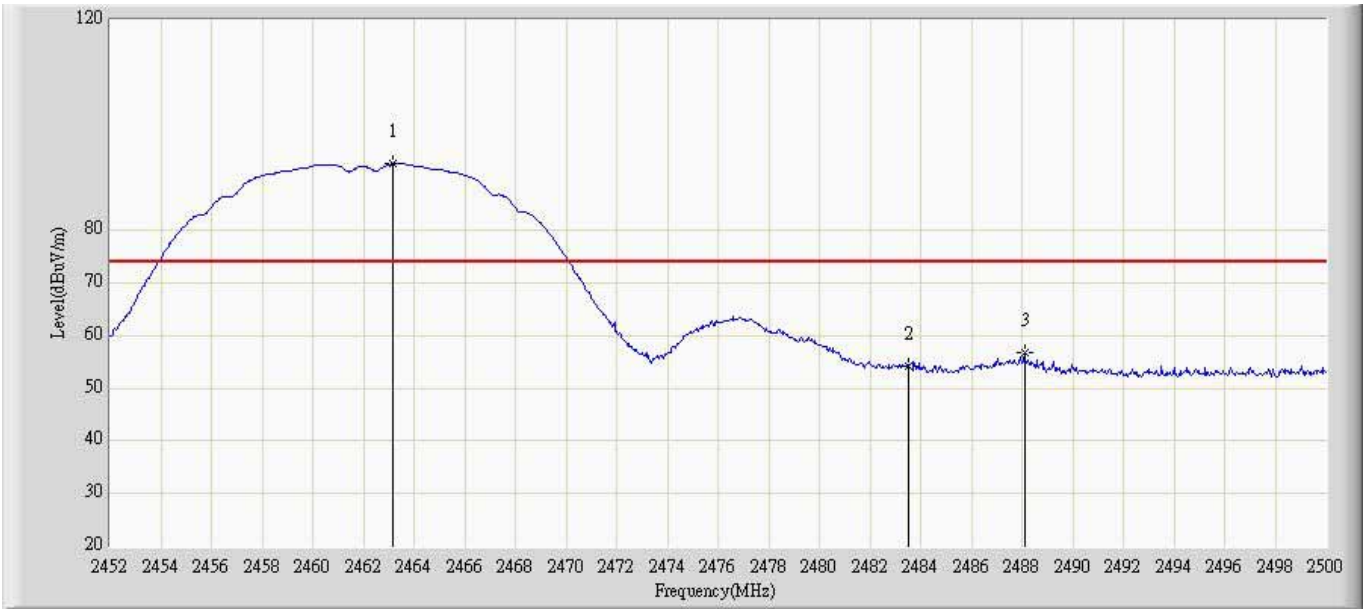
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.184 | 92.581 | 55.660 | N/A | N/A | 36.921 | PK |
| 2 | | | 2483.500 | 54.236 | 17.146 | -19.764 | 74.000 | 37.089 | PK |
| 3 | | | 2488.096 | 56.733 | 19.603 | -17.267 | 74.000 | 37.131 | PK |

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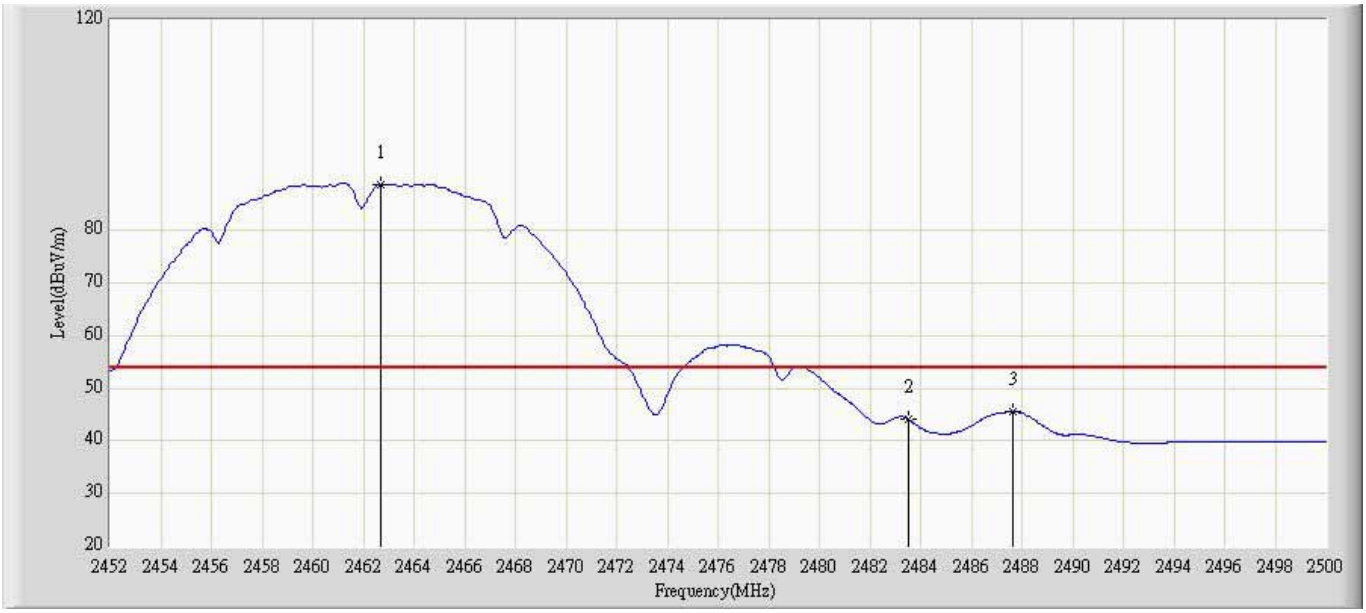
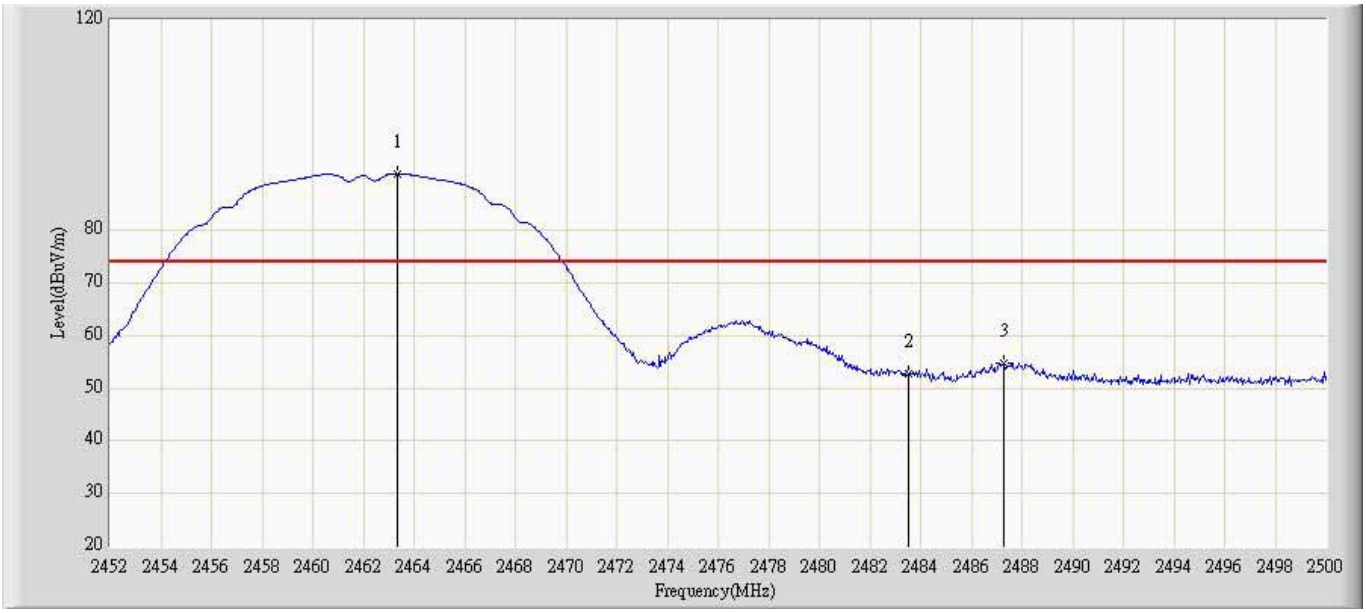
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.704 | 88.802 | 51.885 | N/A | N/A | 36.916 | AV |
| 2 | | | 2483.500 | 44.188 | 7.098 | -9.812 | 54.000 | 37.089 | AV |
| 3 | | | 2487.616 | 45.603 | 8.477 | -8.397 | 54.000 | 37.126 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.328 | 90.764 | 54.795 | N/A | N/A | 35.969 | PK |
| 2 | | | 2483.500 | 52.890 | 16.834 | -21.110 | 74.000 | 36.055 | PK |
| 3 | | | 2487.280 | 54.884 | 18.810 | -19.116 | 74.000 | 36.074 | PK |

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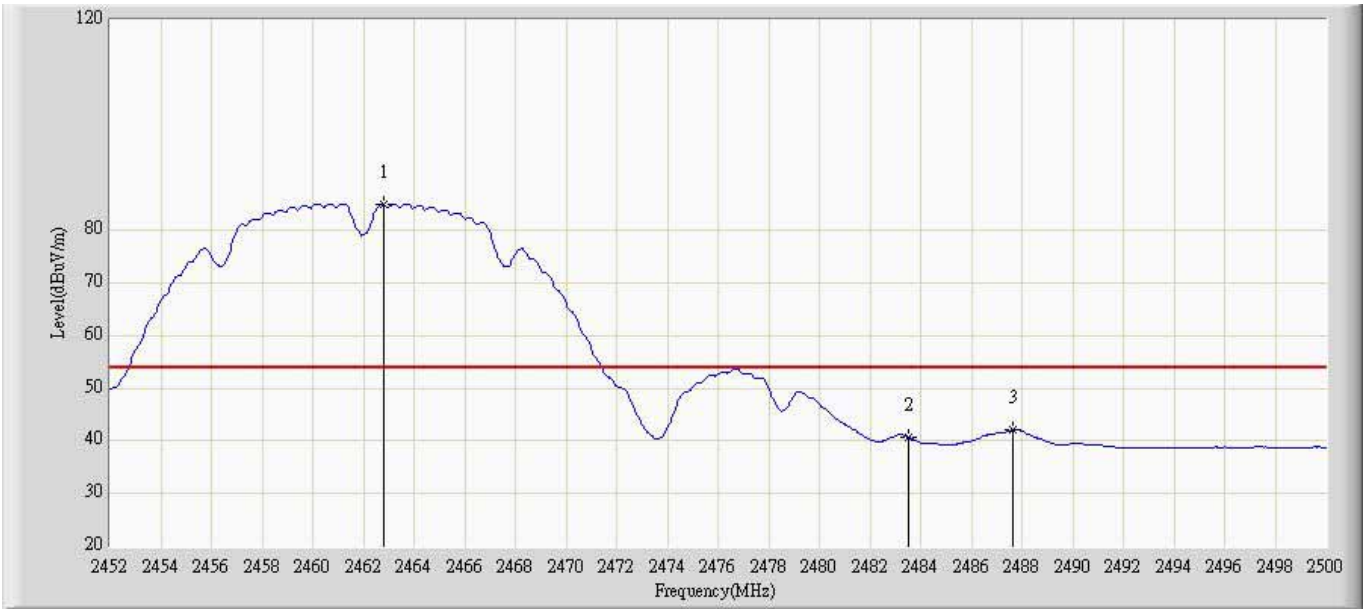
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:18 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 1:Transmit at 2462MHz by 802.11b Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2462.800 | 84.812 | 48.846 | N/A | N/A | 35.966 | AV |
| 2 | | | 2483.500 | 40.801 | 4.745 | -13.199 | 54.000 | 36.055 | AV |
| 3 | | | 2487.664 | 42.134 | 6.058 | -11.866 | 54.000 | 36.076 | AV |

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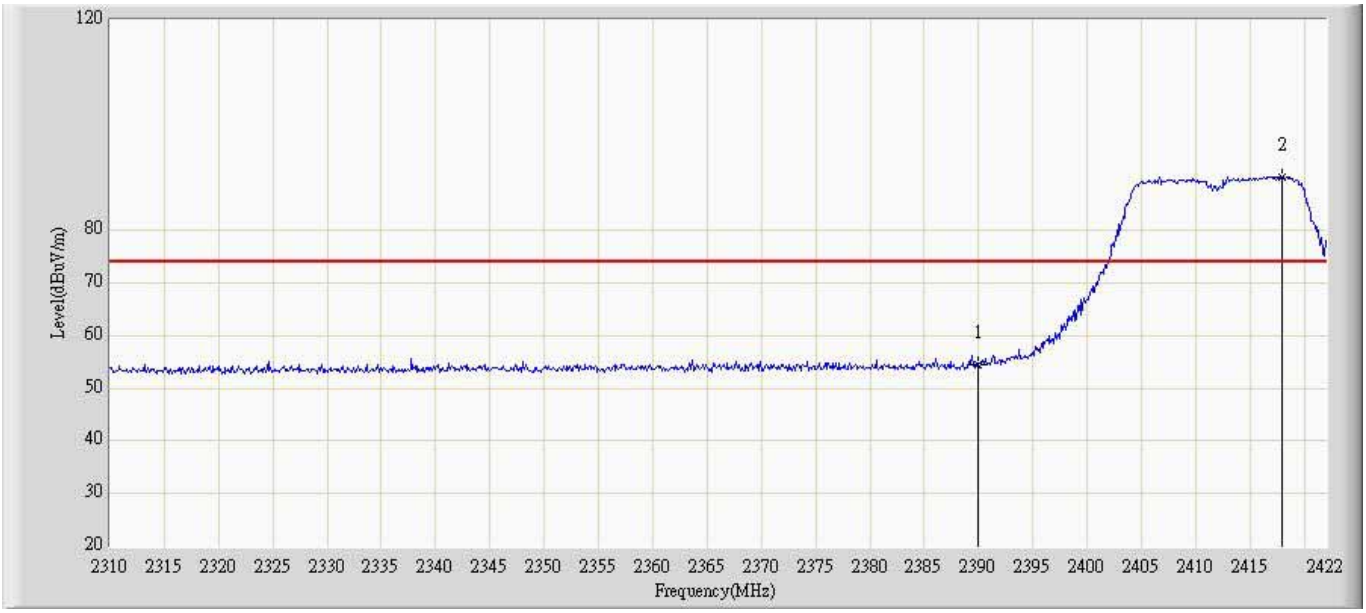
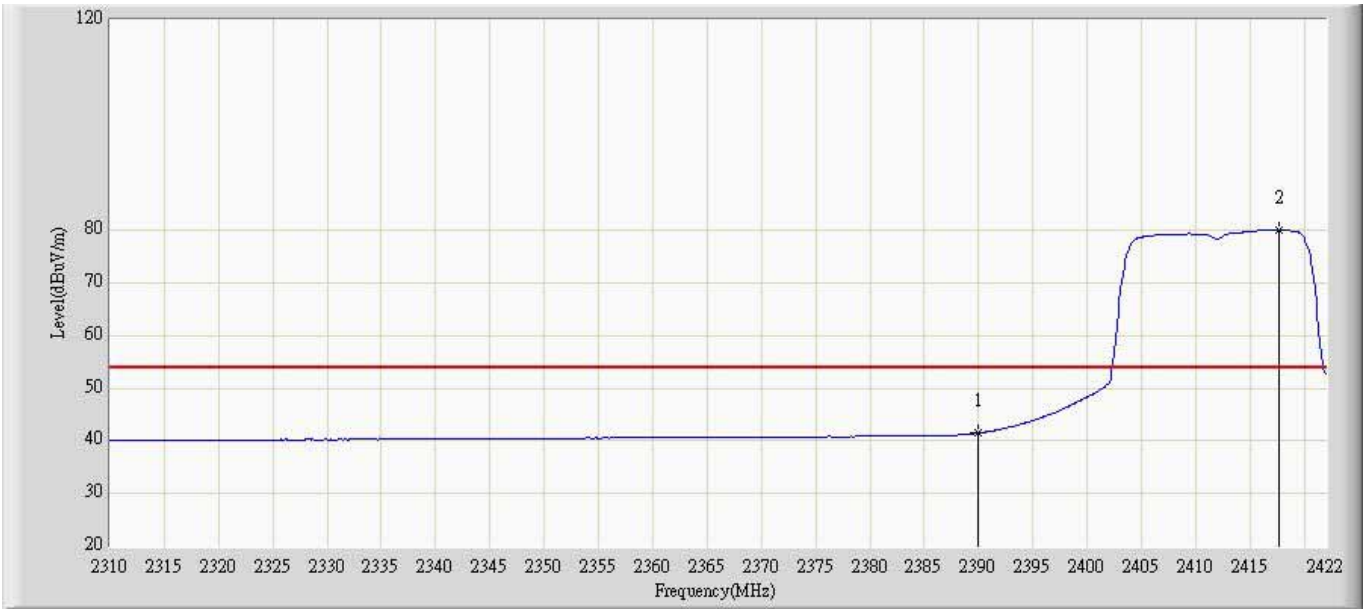
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:19 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g Chain 2 | |



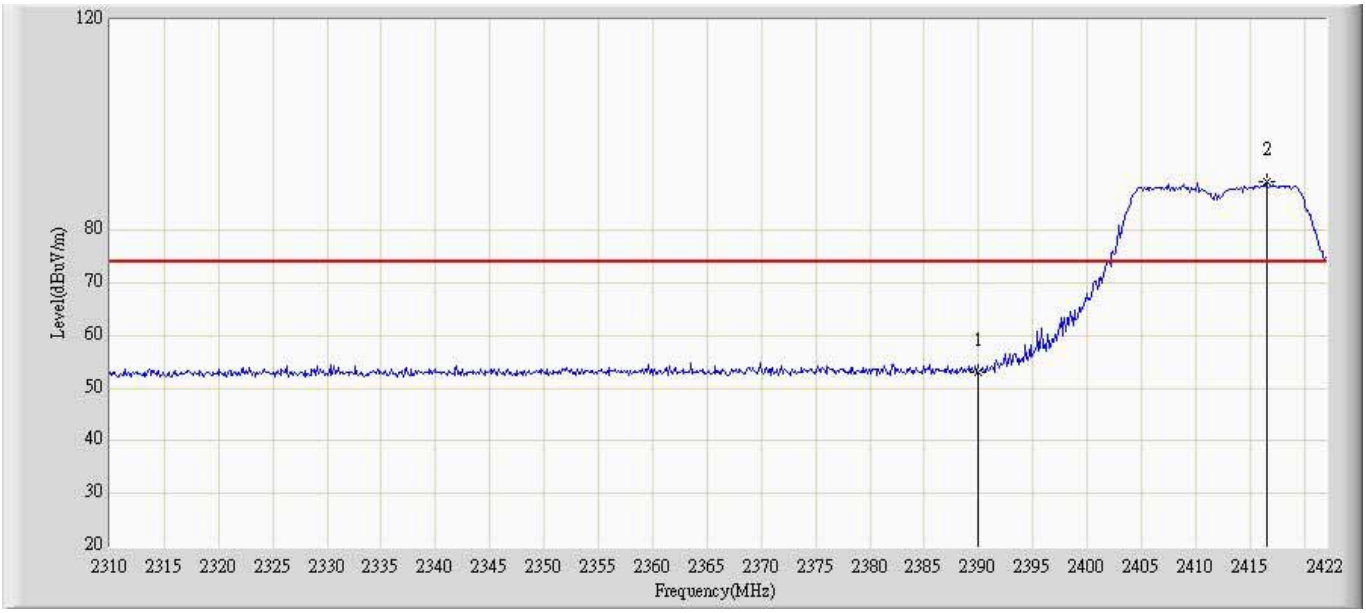

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 54.541 | 18.240 | -19.459 | 74.000 | 36.302 | PK |
| 2 | | * | 2417.968 | 90.189 | 53.654 | N/A | N/A | 36.535 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g Chain 2 | |



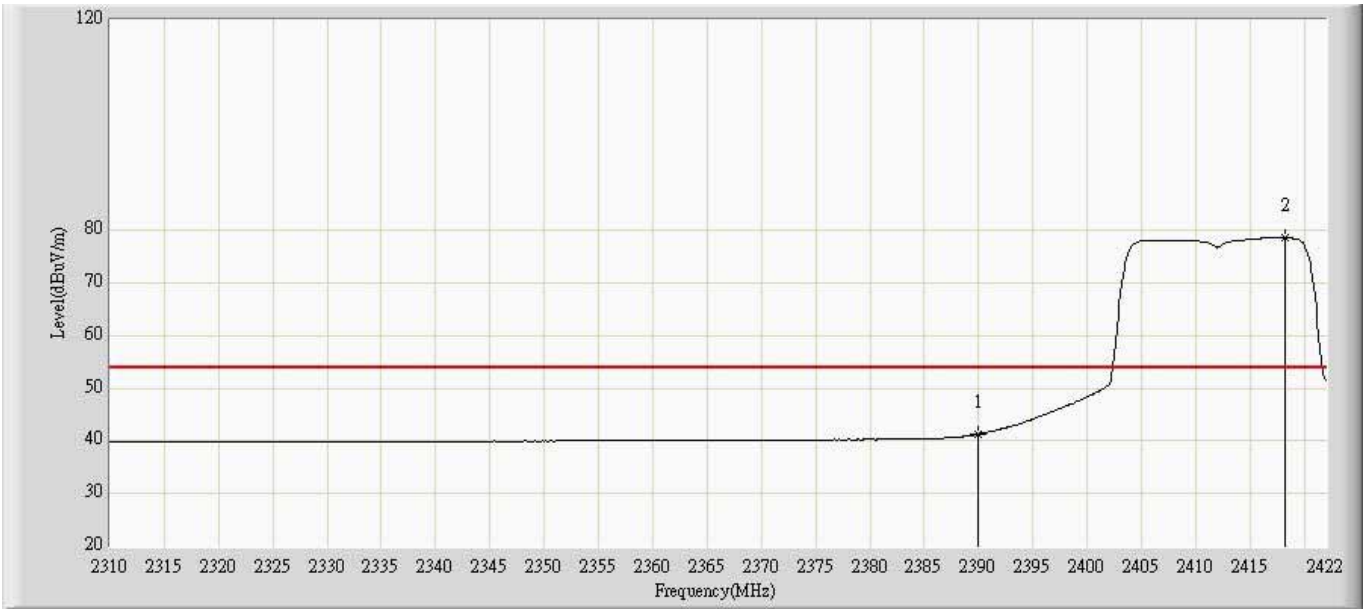

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.535 | 5.234 | -12.465 | 54.000 | 36.302 | AV |
| 2 | | * | 2417.744 | 80.047 | 43.514 | N/A | N/A | 36.533 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:24 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g Chain 2 | |



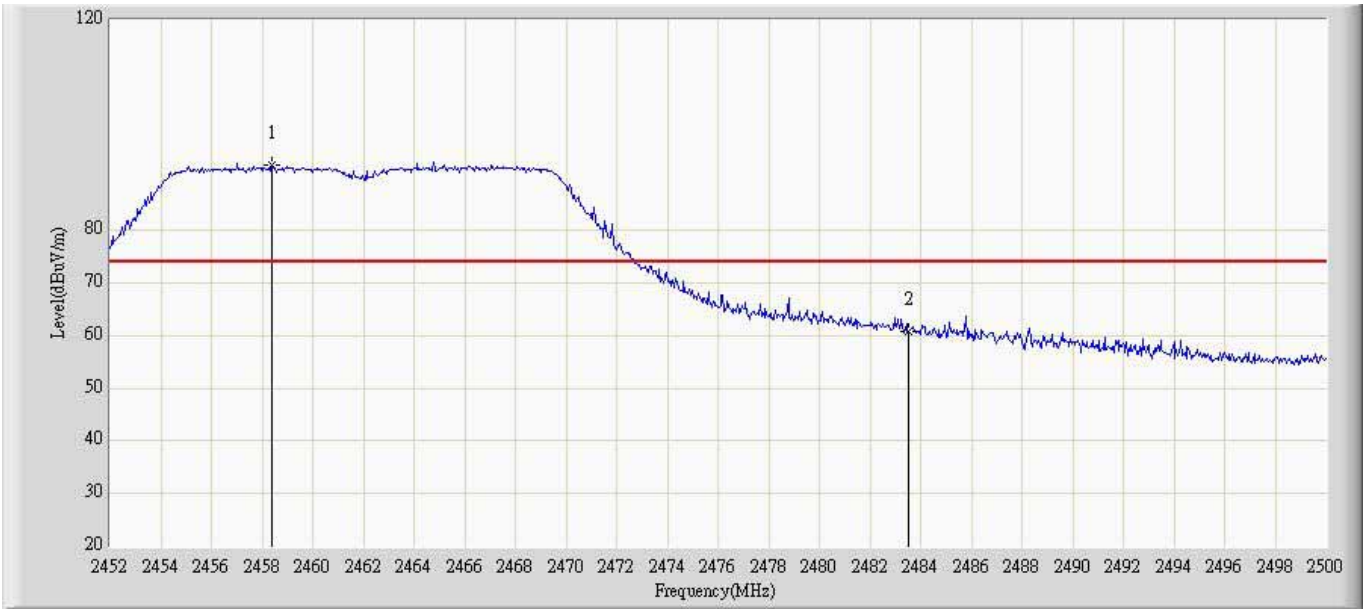

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 52.954 | 17.313 | -21.046 | 74.000 | 35.642 | PK |
| 2 | | * | 2416.512 | 89.228 | 53.472 | N/A | N/A | 35.756 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:25 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2412MHz by 802.11g Chain 2 | |



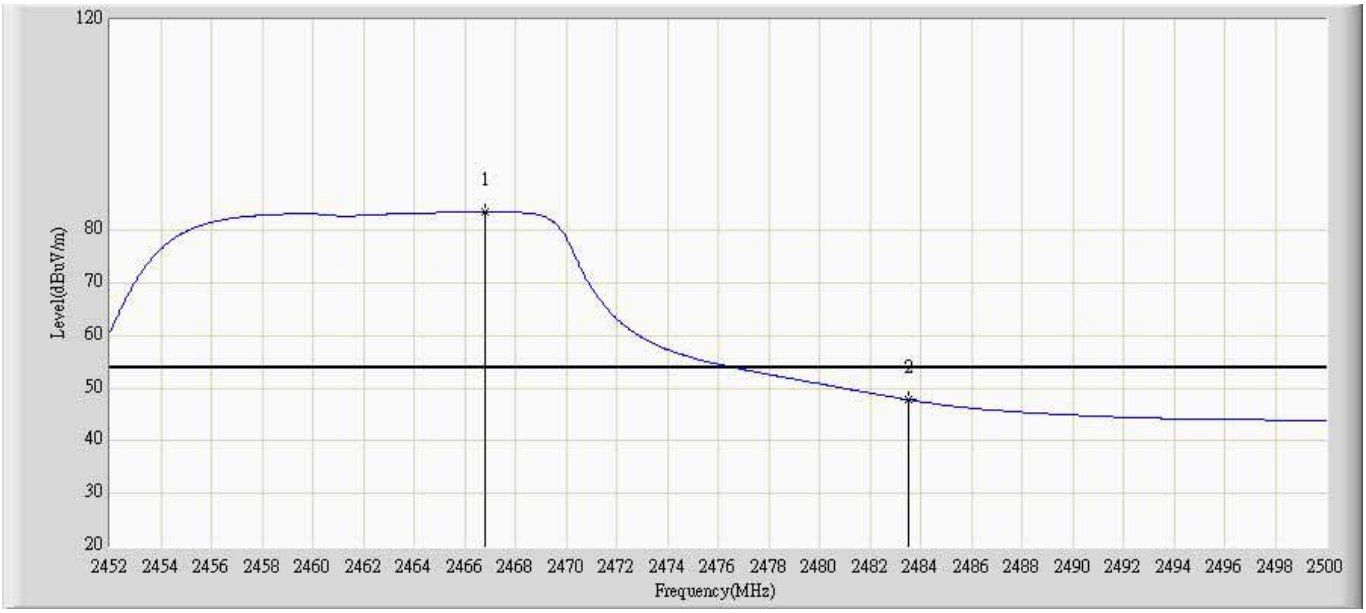

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.271 | 5.630 | -12.729 | 54.000 | 35.642 | AV |
| 2 | | * | 2418.192 | 78.607 | 42.843 | N/A | N/A | 35.764 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:26 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g Chain 2 | |



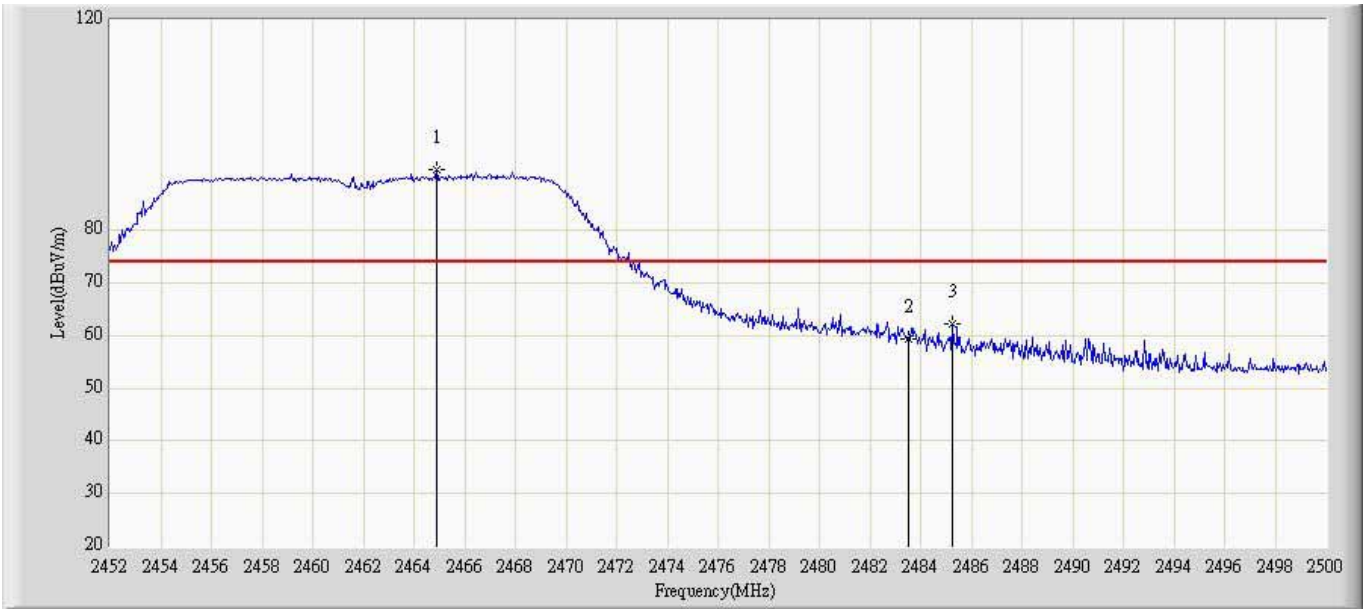

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2458.384 | 92.547 | 55.668 | N/A | N/A | 36.880 | PK |
| 2 | | | 2483.500 | 60.729 | 23.639 | -13.271 | 74.000 | 37.089 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:30 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g Chain 2 | |



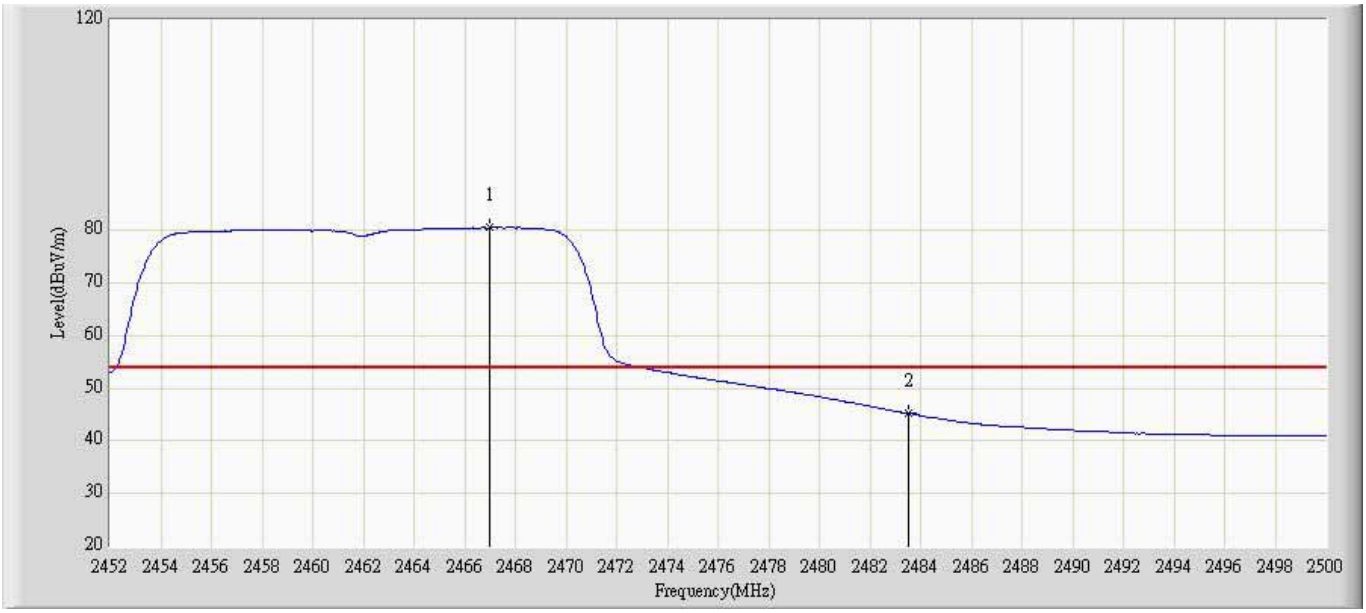

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2466.832 | 83.528 | 46.577 | N/A | N/A | 36.951 | AV |
| 2 | | | 2483.500 | 47.833 | 10.743 | -6.167 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:31 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g Chain 2 | |



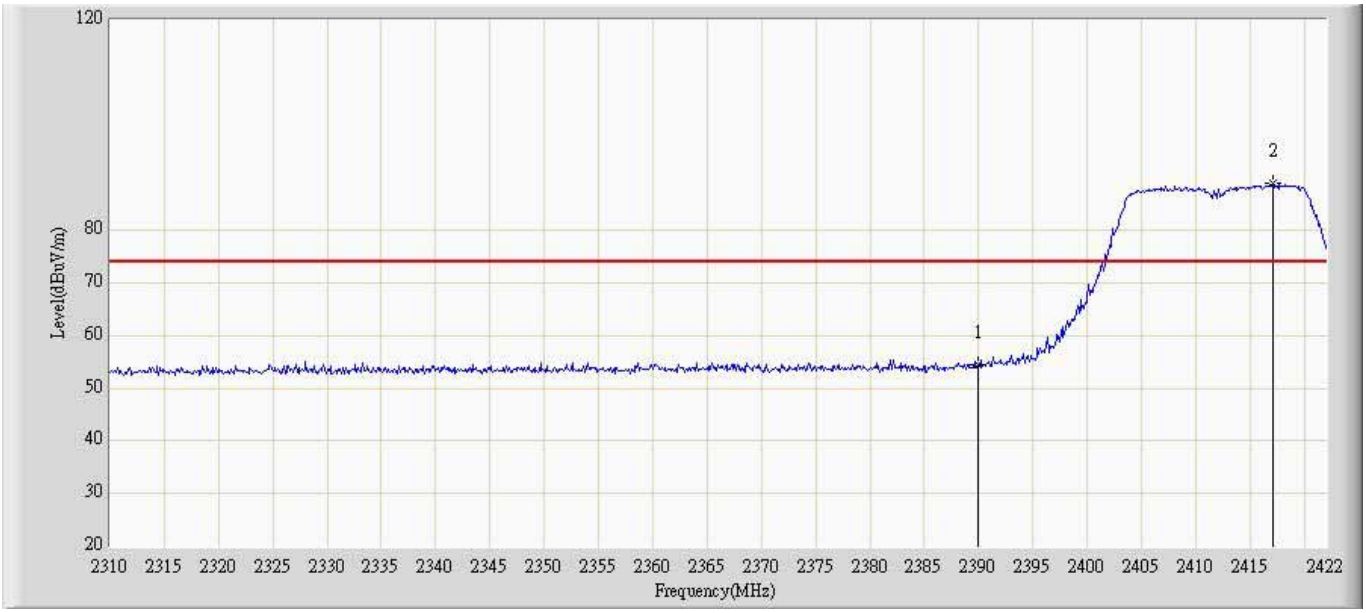

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2464.912 | 91.467 | 55.492 | N/A | N/A | 35.975 | PK |
| 2 | | | 2483.500 | 59.491 | 23.435 | -14.509 | 74.000 | 36.055 | PK |
| 3 | | | 2485.264 | 62.289 | 26.225 | -11.711 | 74.000 | 36.064 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:33 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 2:Transmit at 2462MHz by 802.11g Chain 2 | |



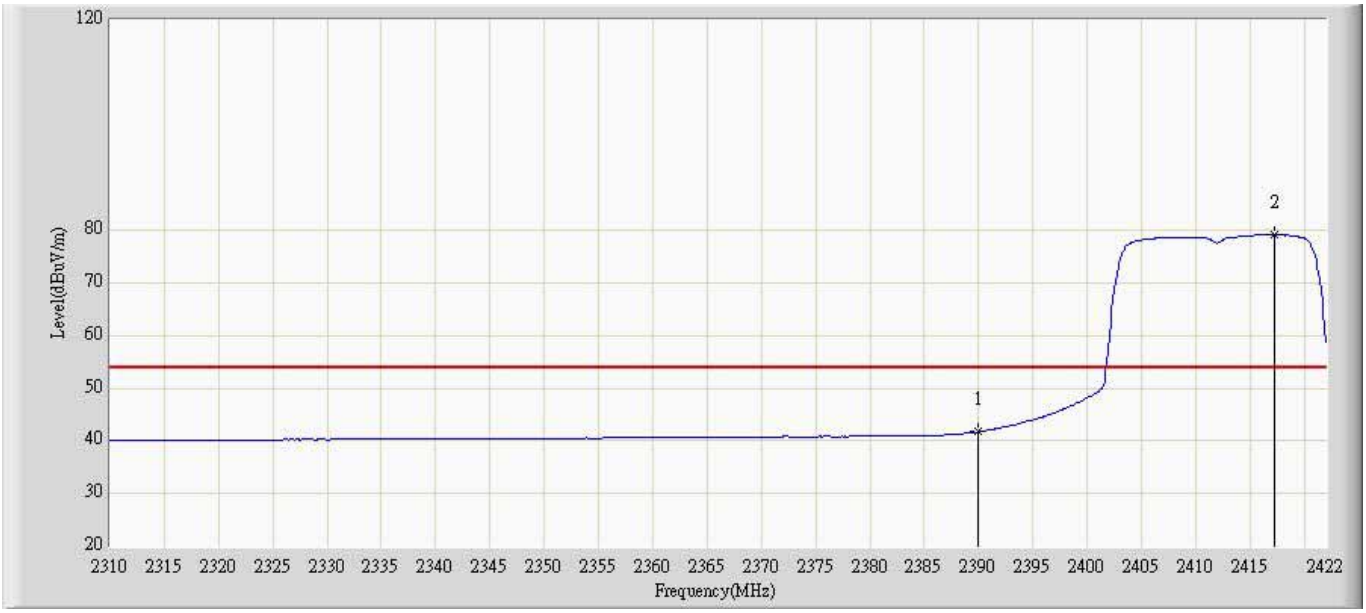

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2466.976 | 80.510 | 44.526 | N/A | N/A | 35.984 | AV |
| 2 | | | 2483.500 | 45.241 | 9.185 | -8.759 | 54.000 | 36.055 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:34 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 2 | |



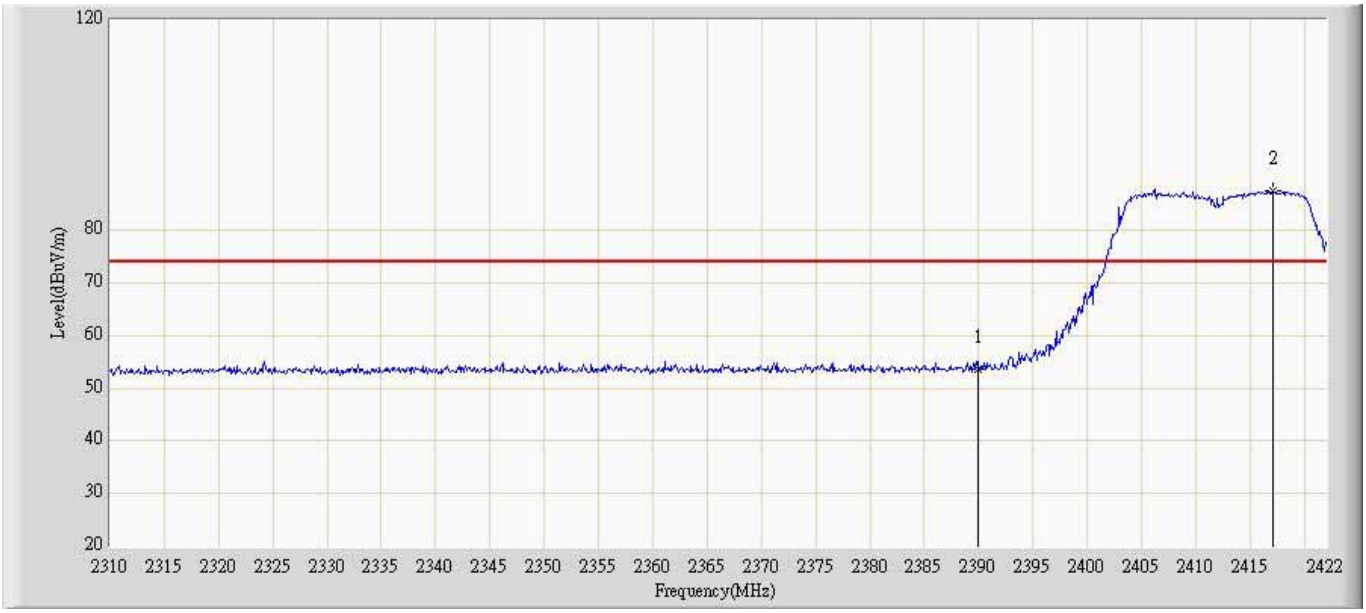

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 54.377 | 18.076 | -19.623 | 74.000 | 36.302 | PK |
| 2 | | * | 2417.184 | 88.977 | 52.449 | N/A | N/A | 36.528 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:36 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 2 | |



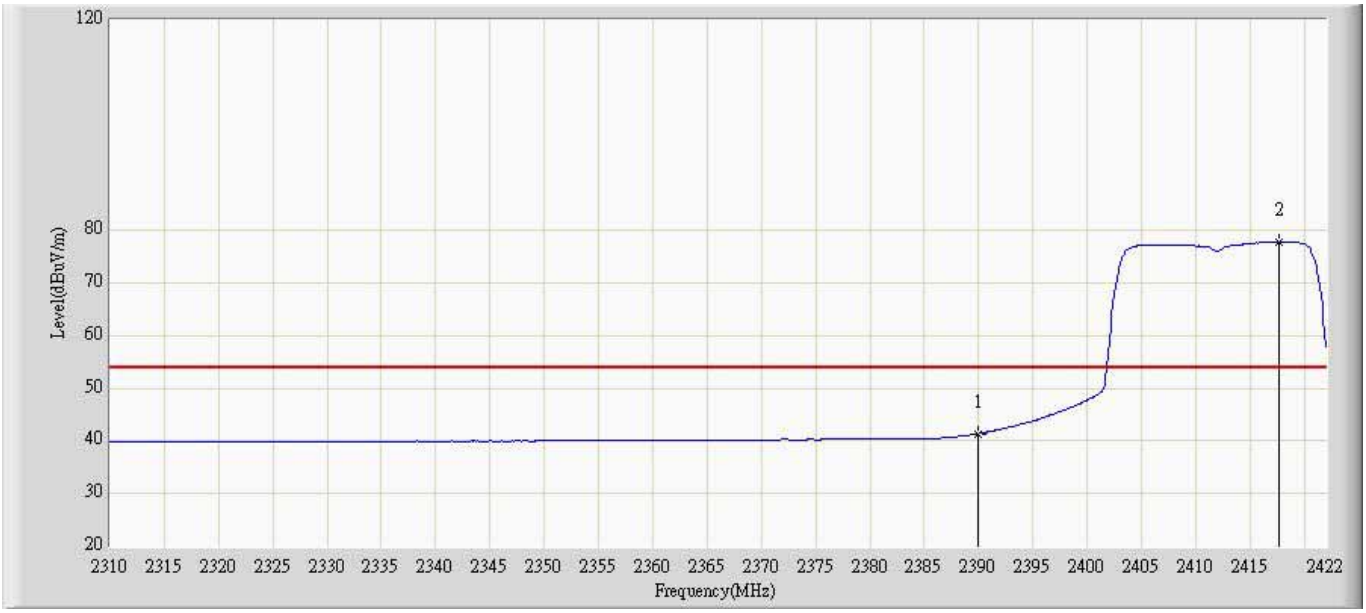

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.760 | 5.459 | -12.240 | 54.000 | 36.302 | AV |
| 2 | | * | 2417.296 | 79.170 | 42.641 | N/A | N/A | 36.529 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:37 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 2 | |



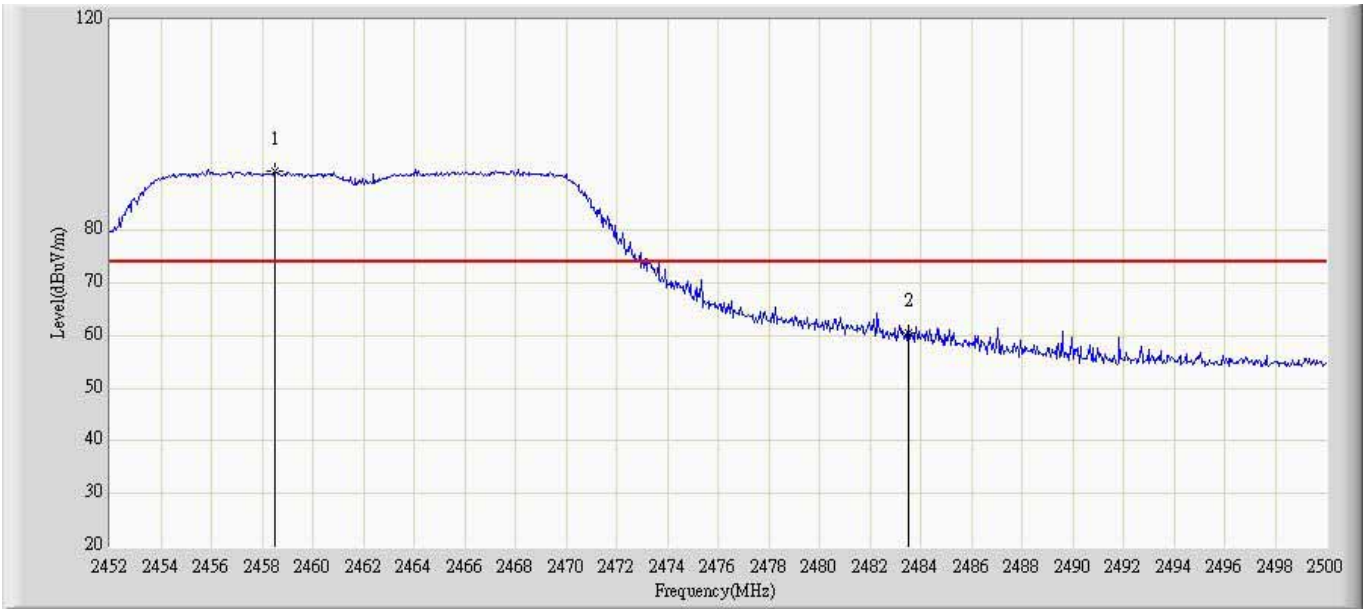

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 53.687 | 18.046 | -20.313 | 74.000 | 35.642 | PK |
| 2 | | * | 2417.072 | 87.522 | 51.763 | N/A | N/A | 35.759 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:41 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 2 | |



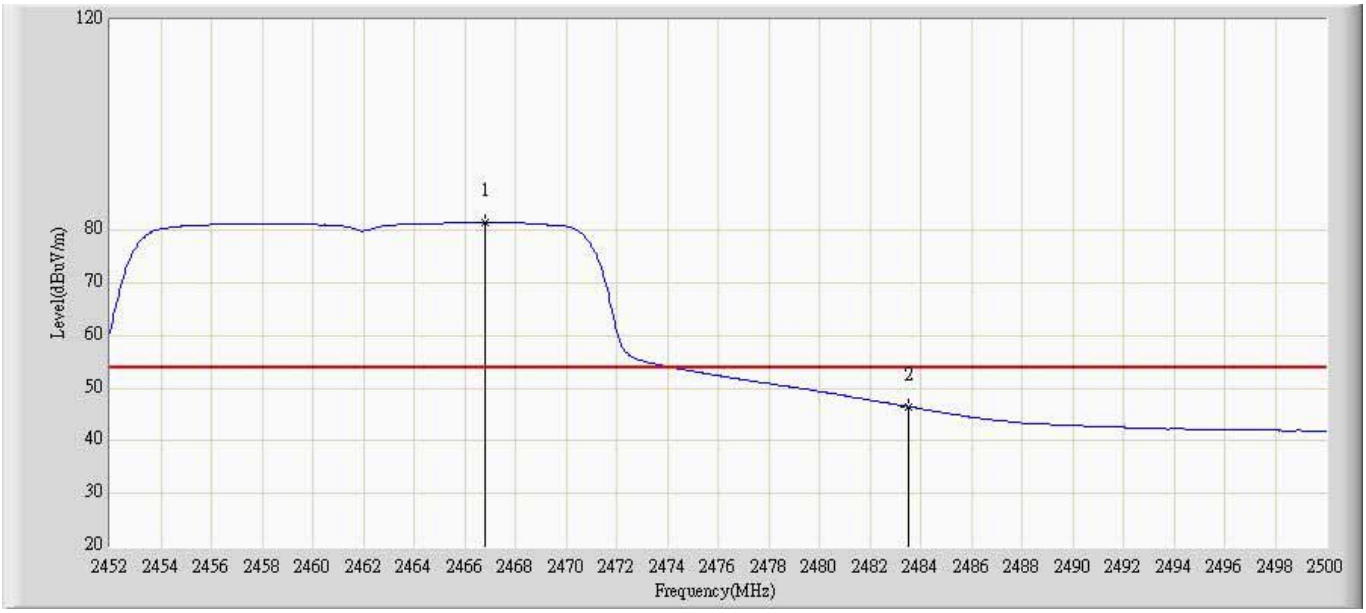

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.384 | 5.743 | -12.616 | 54.000 | 35.642 | AV |
| 2 | | * | 2417.744 | 77.812 | 42.050 | N/A | N/A | 35.762 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:48 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 2 | |



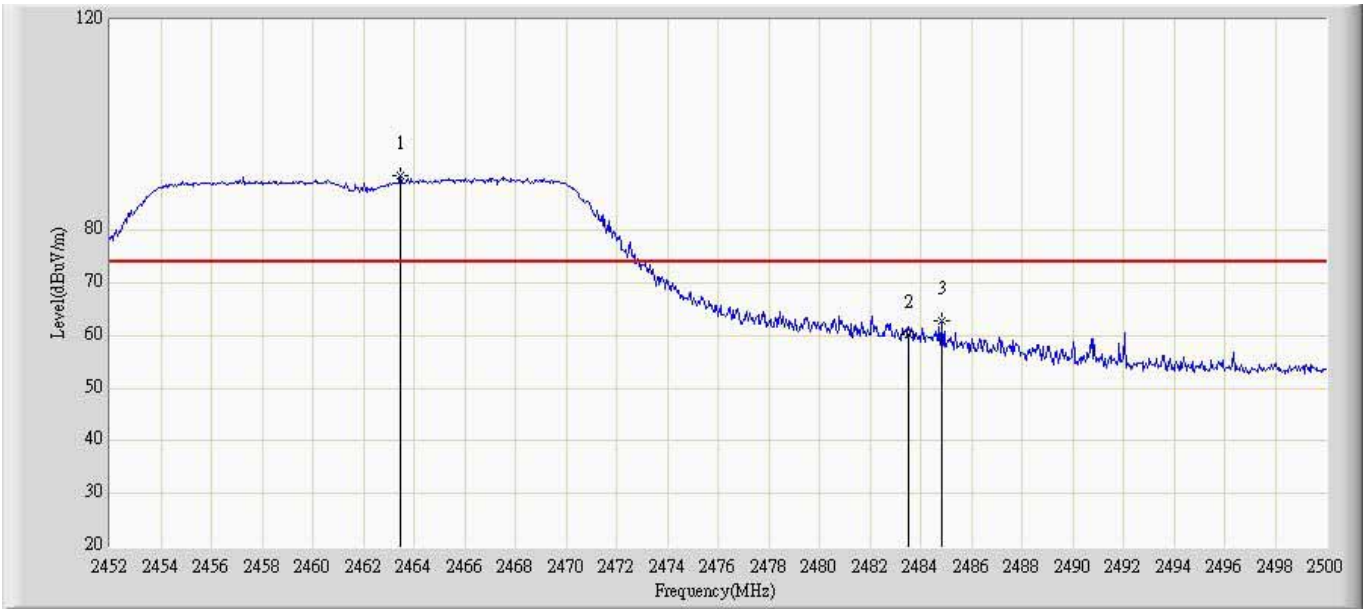

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2458.480 | 91.299 | 54.419 | N/A | N/A | 36.880 | PK |
| 2 | | | 2483.500 | 60.512 | 23.422 | -13.488 | 74.000 | 37.089 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:50 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 2 | |



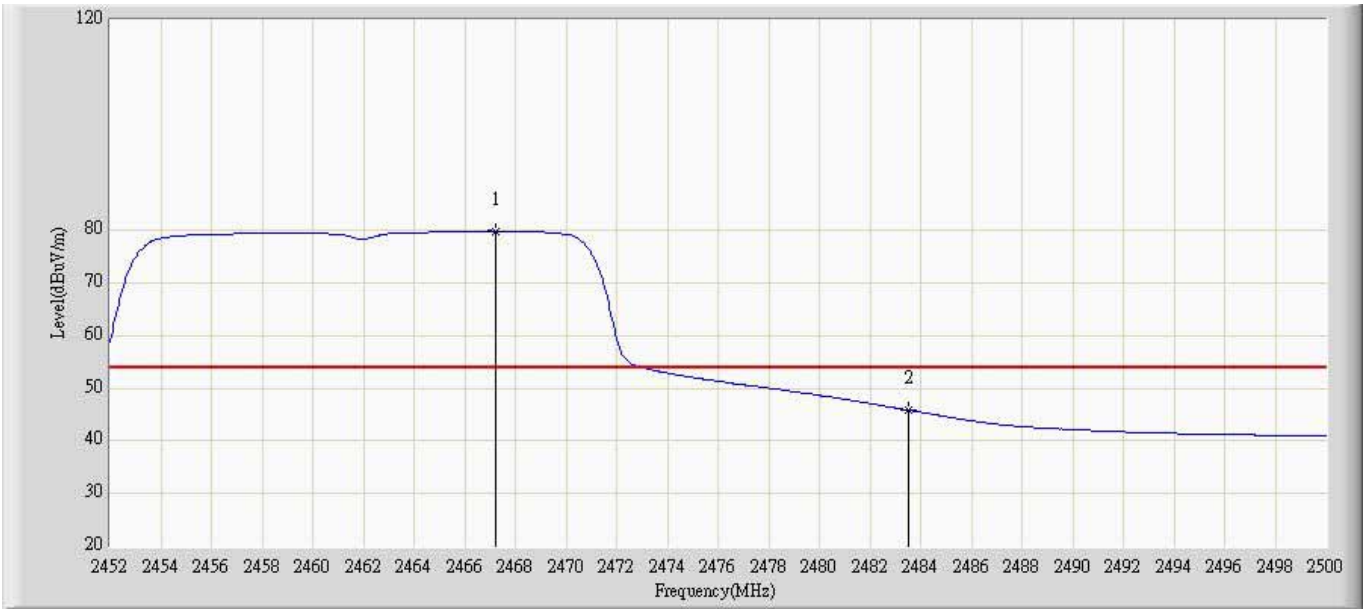

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2466.784 | 81.458 | 44.508 | N/A | N/A | 36.950 | AV |
| 2 | | | 2483.500 | 46.529 | 9.439 | -7.471 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 2 | |



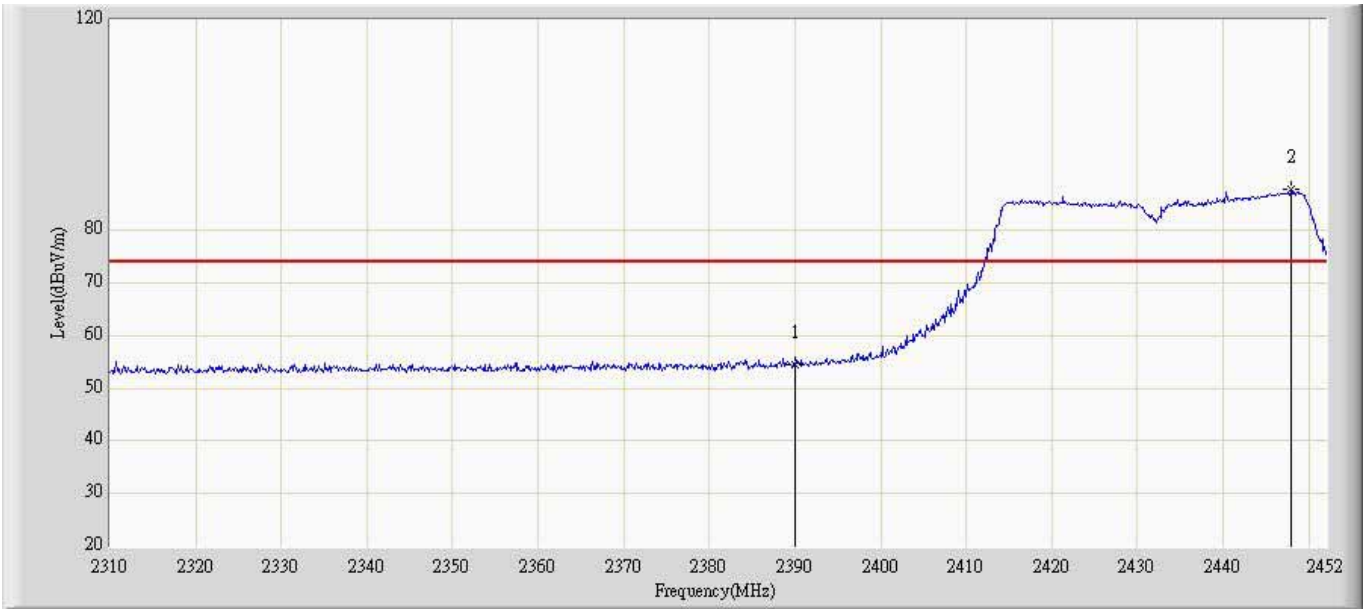

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.472 | 90.263 | 54.294 | N/A | N/A | 35.969 | PK |
| 2 | | | 2483.500 | 60.264 | 24.208 | -13.736 | 74.000 | 36.055 | PK |
| 3 | | | 2484.832 | 62.769 | 26.707 | -11.231 | 74.000 | 36.062 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:52 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 2 | |



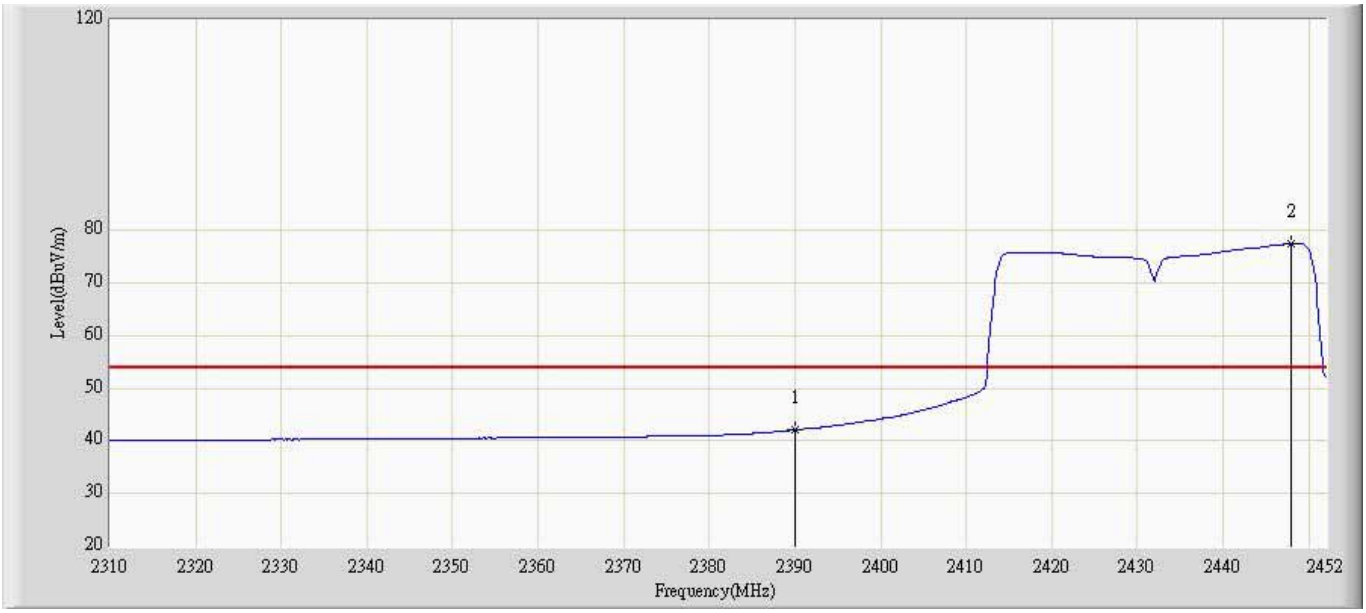

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2467.216 | 79.897 | 43.912 | N/A | N/A | 35.985 | AV |
| 2 | | | 2483.500 | 45.849 | 9.793 | -8.151 | 54.000 | 36.055 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:56 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 2 | |



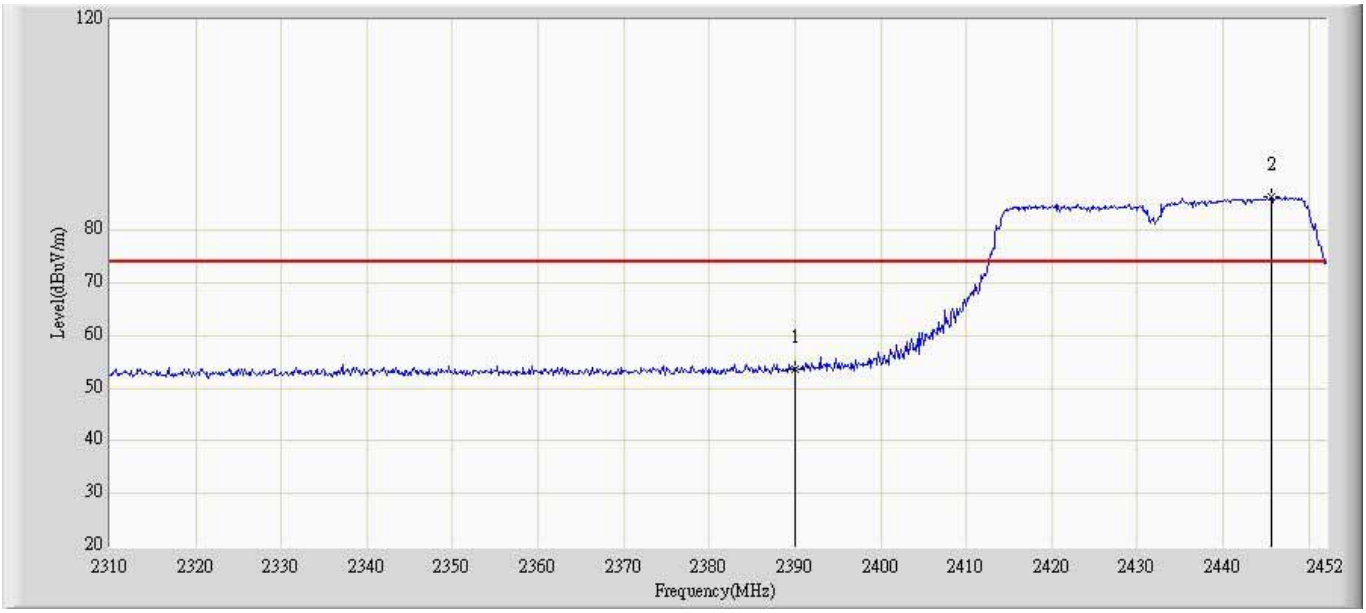

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 54.358 | 18.057 | -19.642 | 74.000 | 36.302 | PK |
| 2 | | * | 2448.024 | 87.729 | 50.940 | N/A | N/A | 36.789 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 20:59 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 2 | |



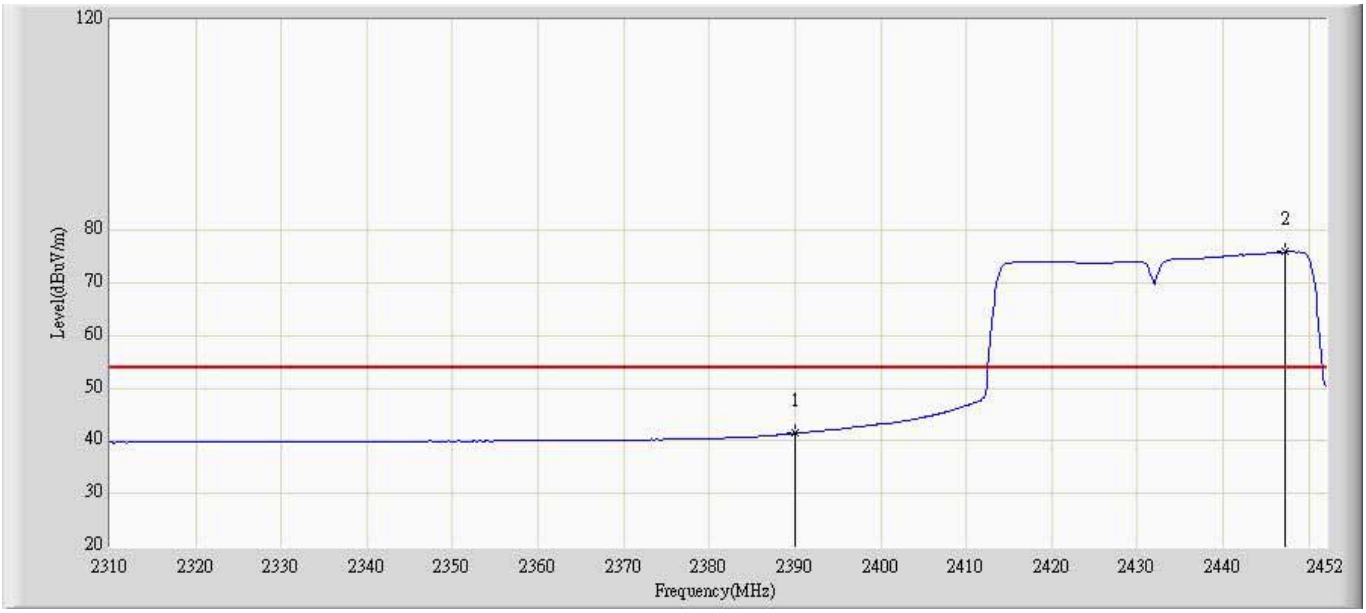

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 42.088 | 5.787 | -11.912 | 54.000 | 36.302 | AV |
| 2 | | * | 2448.024 | 77.375 | 40.586 | N/A | N/A | 36.789 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:00 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 53.749 | 18.108 | -20.251 | 74.000 | 35.642 | PK |
| 2 | | * | 2445.610 | 86.520 | 50.635 | N/A | N/A | 35.885 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:02 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.435 | 5.794 | -12.565 | 54.000 | 35.642 | AV |
| 2 | | * | 2447.314 | 75.949 | 40.056 | N/A | N/A | 35.893 | AV |

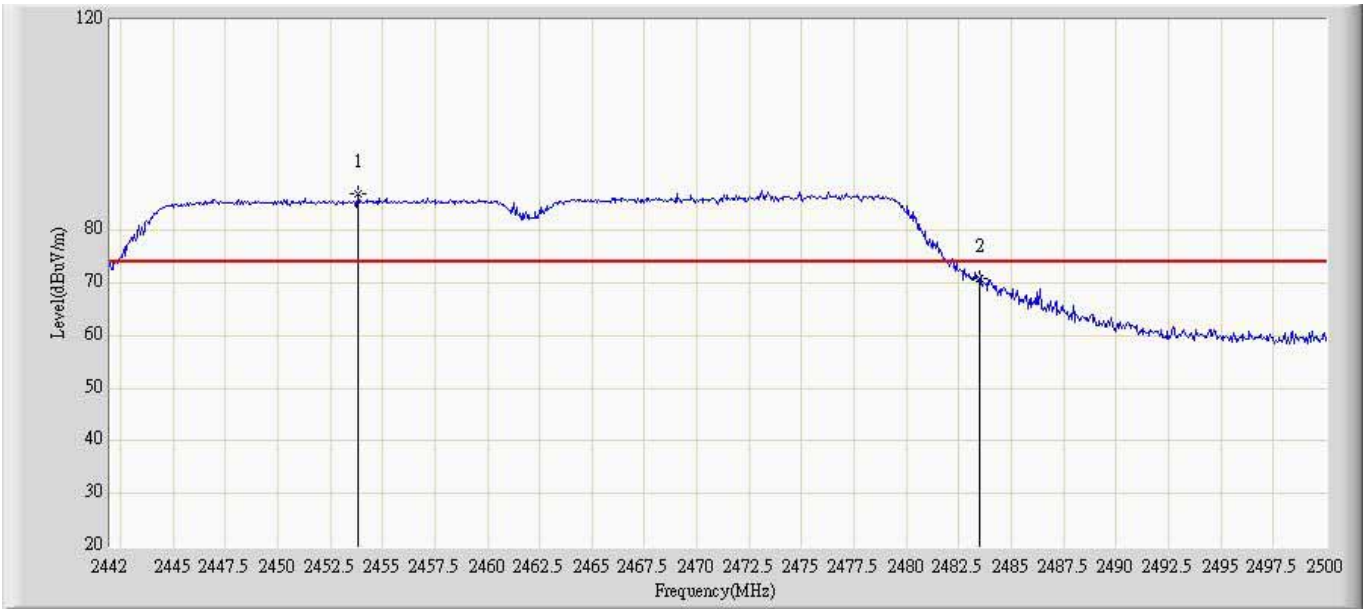
| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:03 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 2 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2454.702 | 88.411 | 51.564 | N/A | N/A | 36.847 | PK |
| 2 | | | 2483.500 | 70.881 | 33.791 | -3.119 | 74.000 | 37.089 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 2 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2454.238 | 76.995 | 40.152 | N/A | N/A | 36.843 | AV |
| 2 | | | 2483.500 | 51.923 | 14.833 | -2.077 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 2 | |

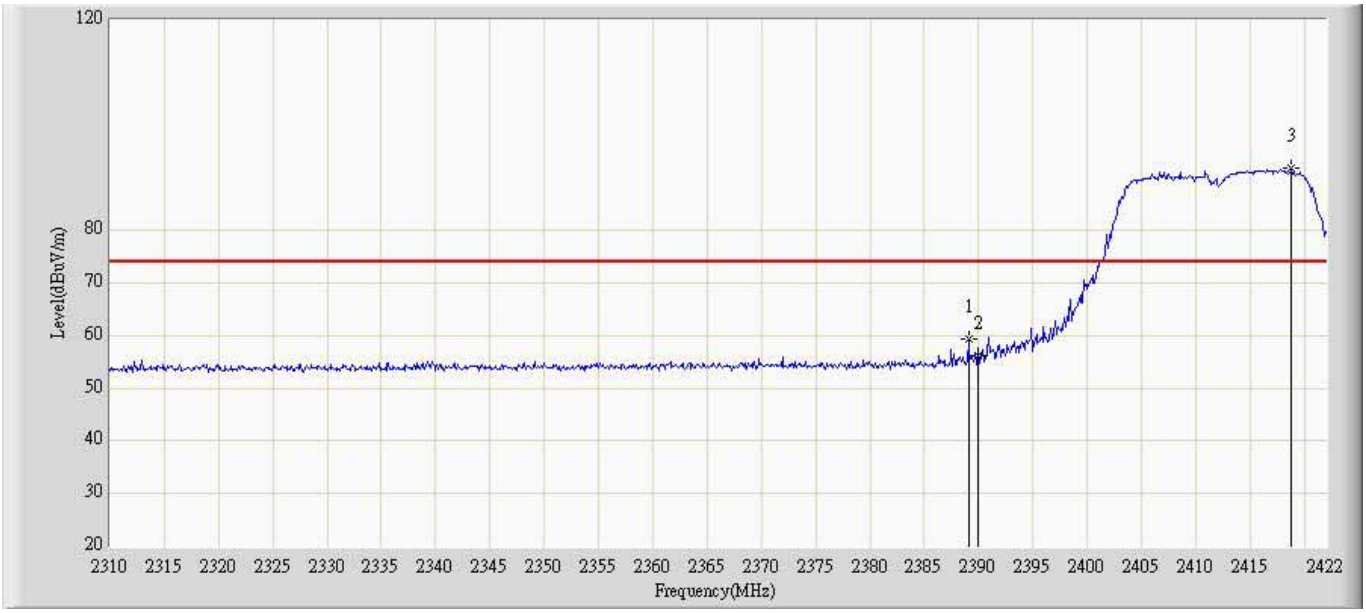



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2453.832 | 86.827 | 50.903 | N/A | N/A | 35.924 | PK |
| 2 | | | 2483.500 | 70.850 | 34.794 | -3.150 | 74.000 | 36.055 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:08 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 2 | |

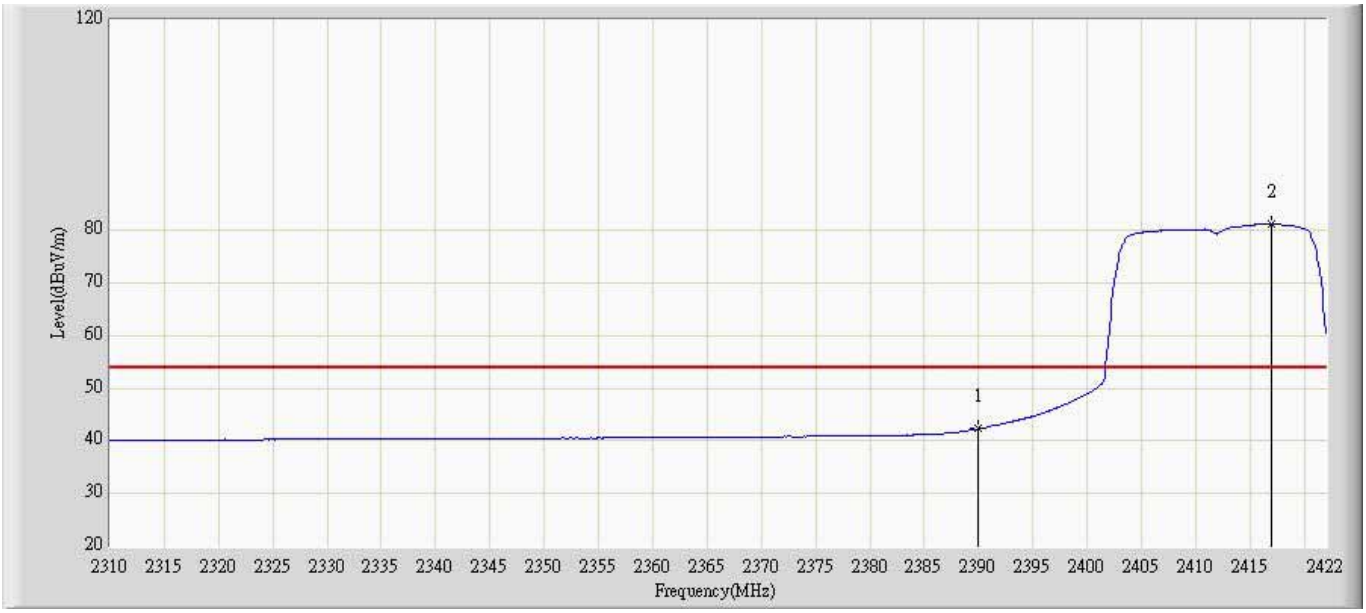

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2477.148 | 76.389 | 40.363 | N/A | N/A | 36.026 | AV |
| 2 | | | 2483.500 | 51.276 | 15.220 | -2.724 | 54.000 | 36.055 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1 | |



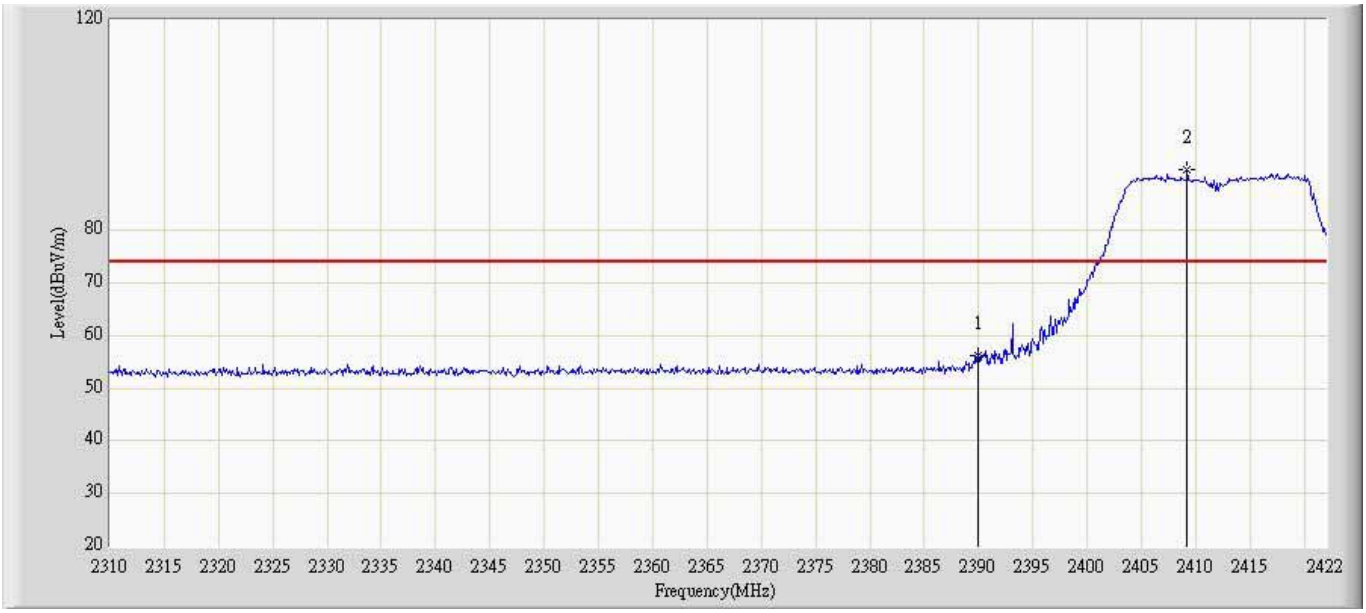

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2389.072 | 59.480 | 23.186 | -14.520 | 74.000 | 36.294 | PK |
| 2 | | | 2390.000 | 56.328 | 20.027 | -17.672 | 74.000 | 36.302 | PK |
| 3 | | * | 2418.864 | 91.773 | 55.230 | N/A | N/A | 36.543 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1 | |



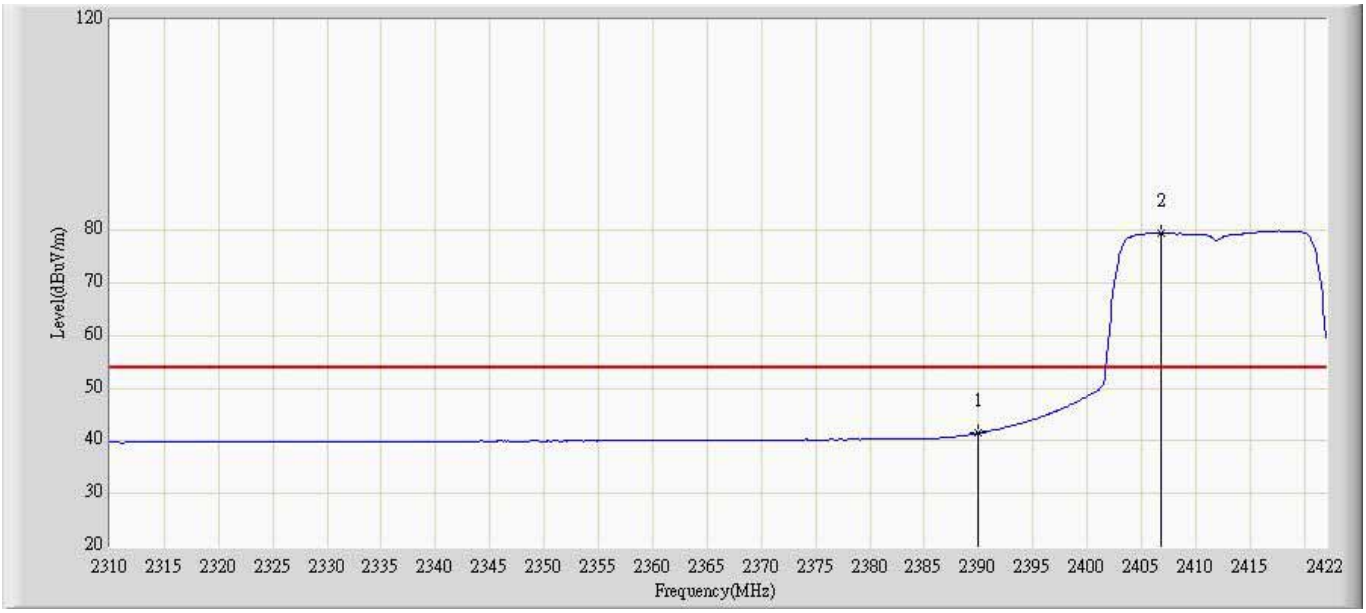

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 42.292 | 5.991 | -11.708 | 54.000 | 36.302 | AV |
| 2 | | * | 2416.960 | 81.095 | 44.569 | N/A | N/A | 36.526 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:16 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1 | |



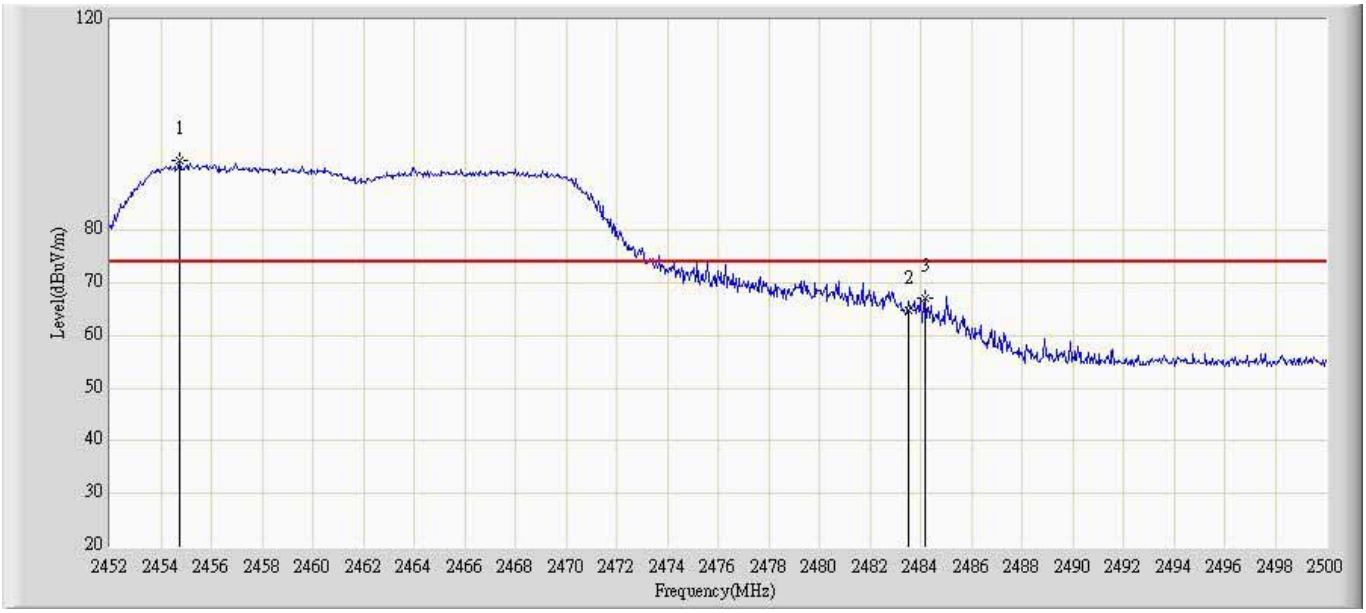

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 56.227 | 20.586 | -17.773 | 74.000 | 35.642 | PK |
| 2 | | * | 2409.232 | 91.507 | 55.784 | N/A | N/A | 35.723 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:18 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1 | |



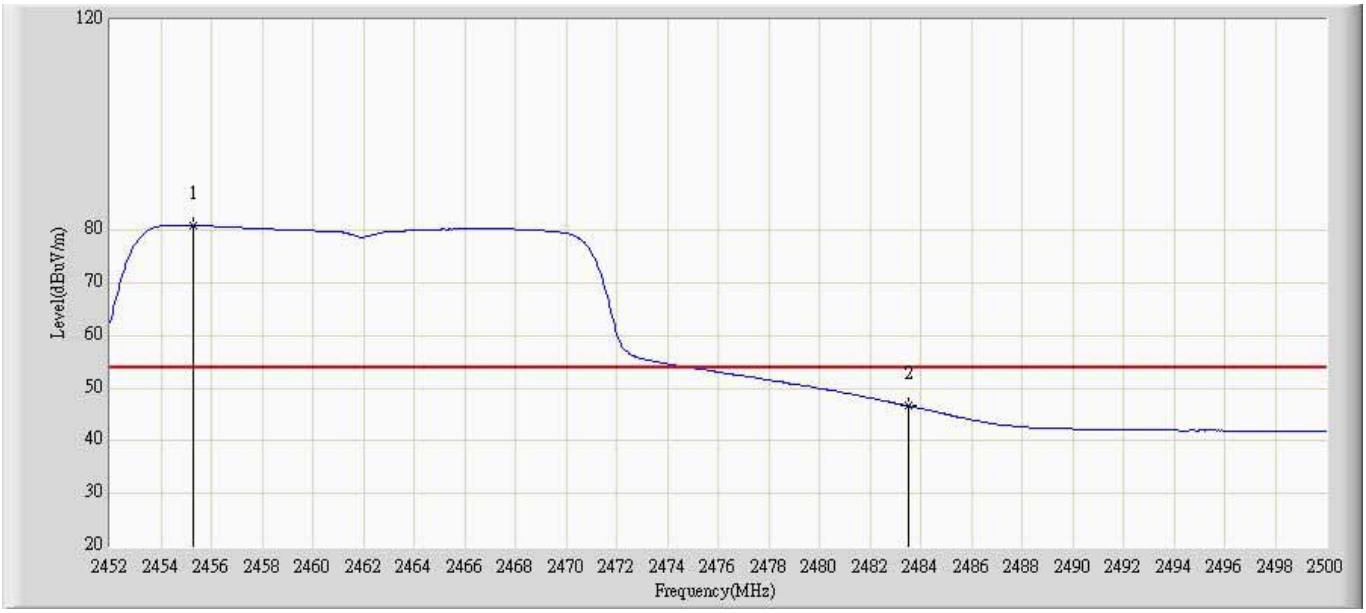

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.504 | 5.863 | -12.496 | 54.000 | 35.642 | AV |
| 2 | | * | 2406.880 | 79.476 | 43.763 | N/A | N/A | 35.713 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:20 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1 | |



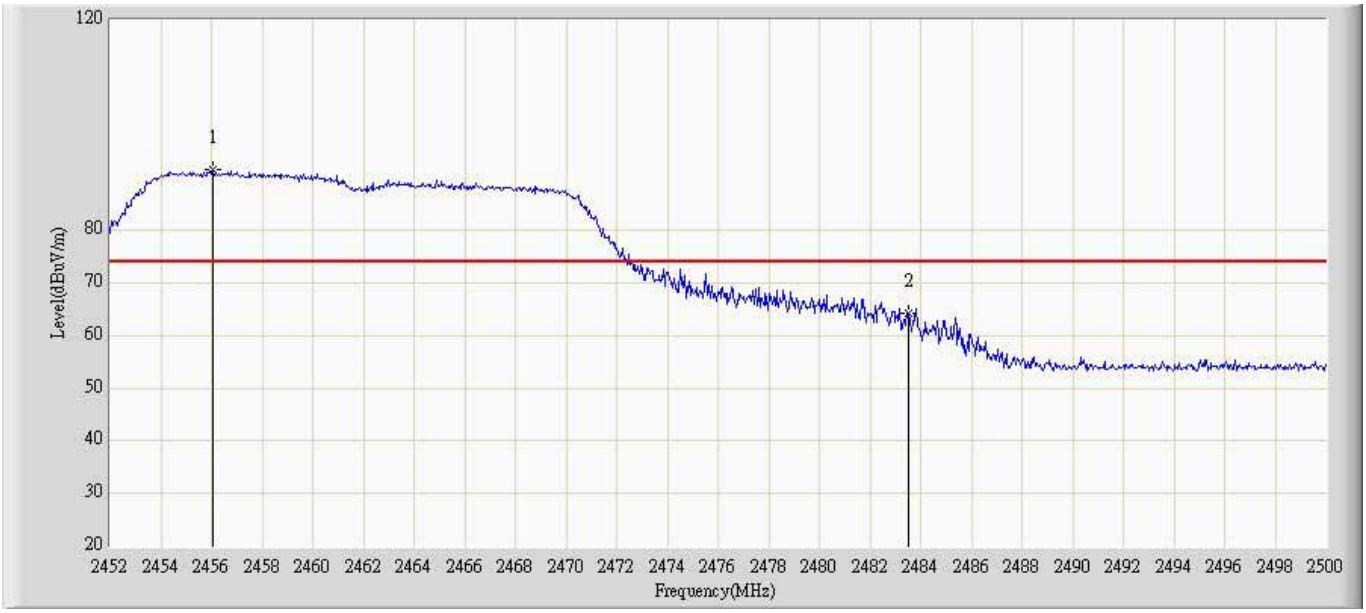

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2454.736 | 93.388 | 56.541 | N/A | N/A | 36.847 | PK |
| 2 | | | 2483.500 | 64.924 | 27.834 | -9.076 | 74.000 | 37.089 | PK |
| 3 | | | 2484.208 | 67.172 | 30.076 | -6.828 | 74.000 | 37.096 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:22 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1 | |



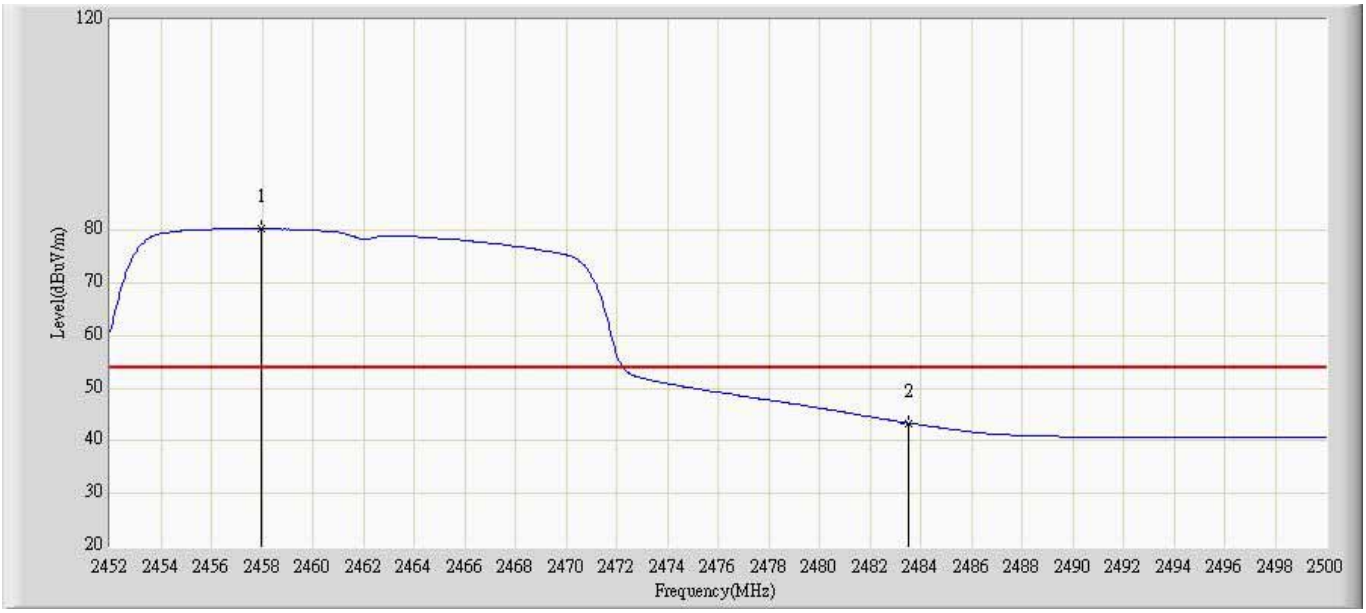

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2455.264 | 80.913 | 44.061 | N/A | N/A | 36.852 | AV |
| 2 | | | 2483.500 | 46.680 | 9.590 | -7.320 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1 | |



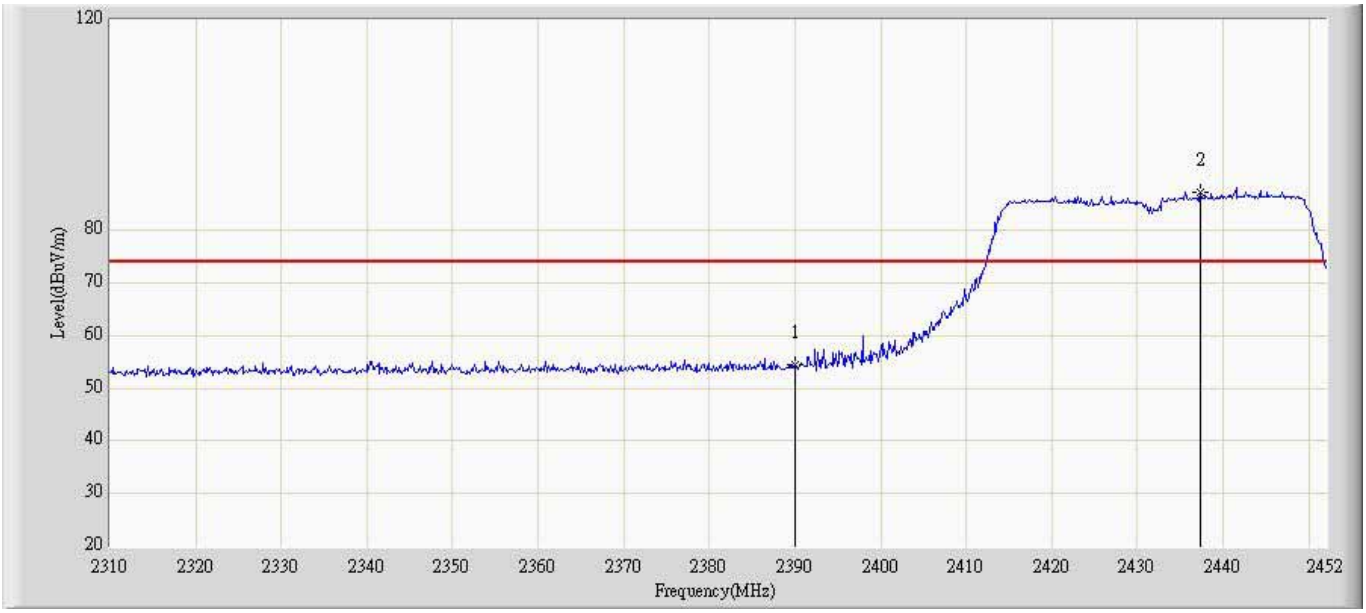

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2456.032 | 91.599 | 55.664 | N/A | N/A | 35.935 | PK |
| 2 | | | 2483.500 | 64.348 | 28.292 | -9.652 | 74.000 | 36.055 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:26 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1 | |



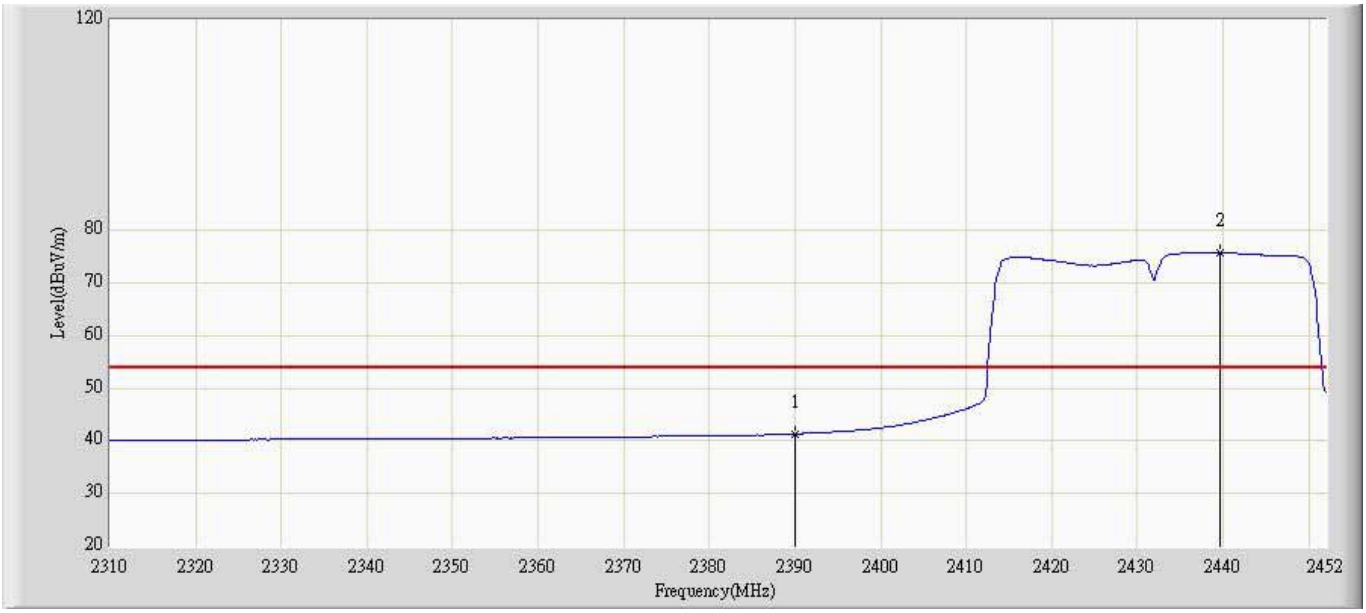

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2457.952 | 80.272 | 44.328 | N/A | N/A | 35.943 | AV |
| 2 | | | 2483.500 | 43.411 | 7.355 | -10.589 | 54.000 | 36.055 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:27 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1 | |



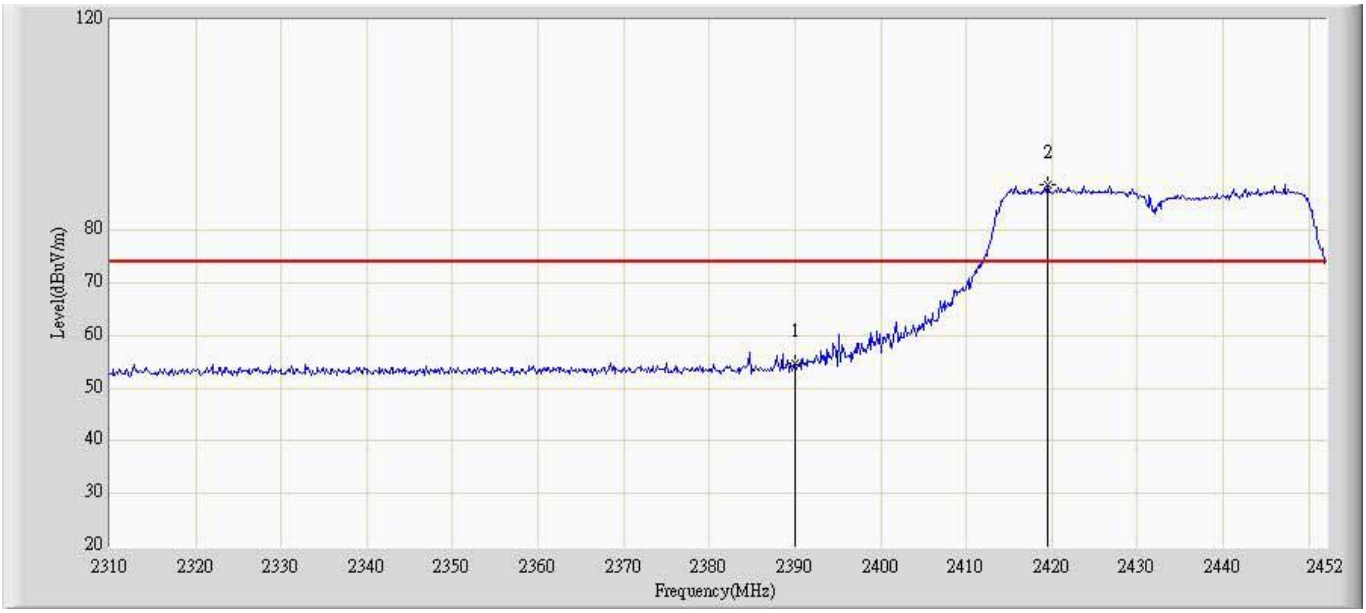

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 54.357 | 18.056 | -19.643 | 74.000 | 36.302 | PK |
| 2 | | * | 2437.374 | 87.242 | 50.542 | N/A | N/A | 36.700 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:29 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1 | |



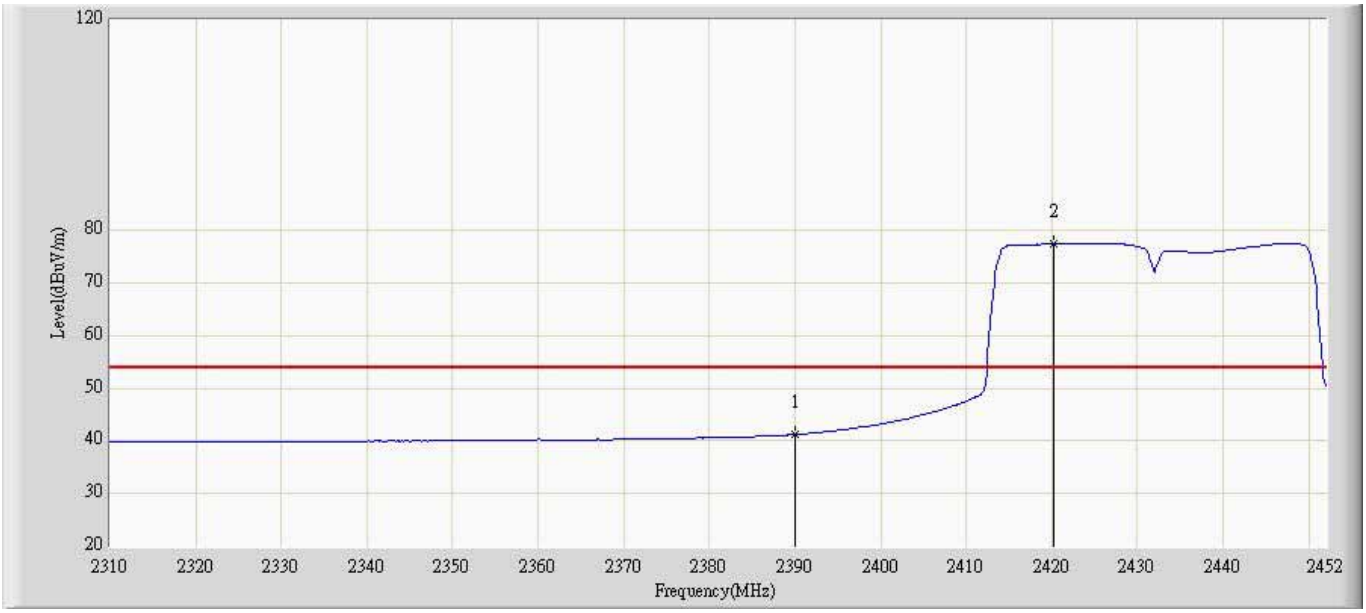

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.349 | 5.048 | -12.651 | 54.000 | 36.302 | AV |
| 2 | | * | 2439.646 | 75.747 | 39.029 | N/A | N/A | 36.718 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:31 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 54.660 | 19.019 | -19.340 | 74.000 | 35.642 | PK |
| 2 | | * | 2419.482 | 88.638 | 52.868 | N/A | N/A | 35.770 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:33 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.238 | 5.597 | -12.762 | 54.000 | 35.642 | AV |
| 2 | | * | 2420.192 | 77.442 | 41.668 | N/A | N/A | 35.774 | AV |

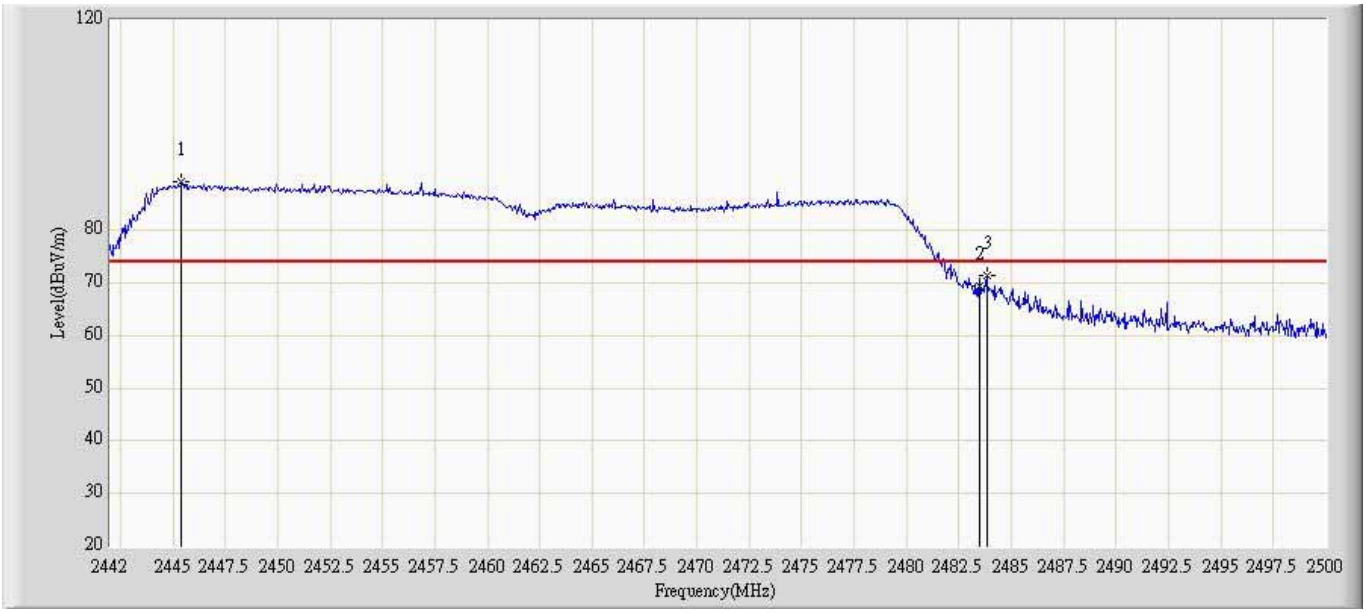
| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:35 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2447.858 | 91.033 | 54.246 | N/A | N/A | 36.787 | PK |
| 2 | | | 2483.500 | 71.728 | 34.638 | -2.272 | 74.000 | 37.089 | PK |
| 3 | | | 2484.804 | 72.875 | 35.774 | -1.125 | 74.000 | 37.101 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2446.234 | 79.541 | 42.768 | N/A | N/A | 36.772 | AV |
| 2 | | | 2483.500 | 53.954 | 16.864 | -0.046 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:46 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1 | |

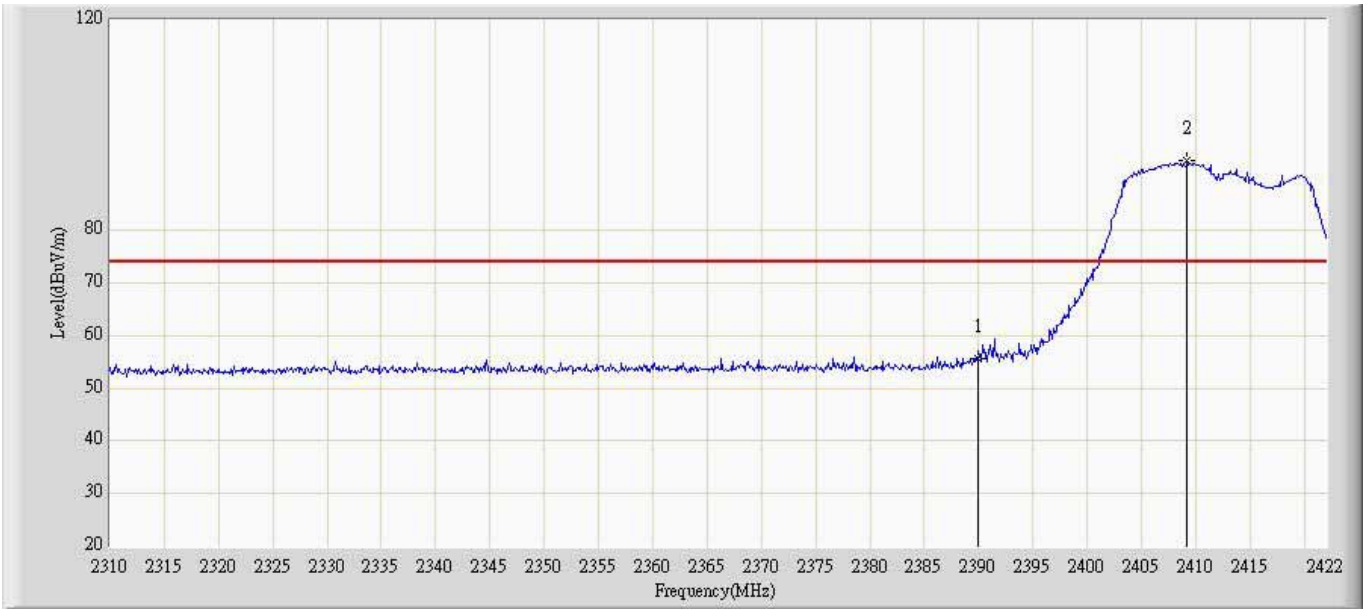



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2445.422 | 89.343 | 53.459 | N/A | N/A | 35.884 | PK |
| 2 | | | 2483.500 | 69.343 | 33.287 | -4.657 | 74.000 | 36.055 | PK |
| 3 | | | 2483.818 | 71.342 | 35.285 | -2.658 | 74.000 | 36.058 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:49 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1 | |

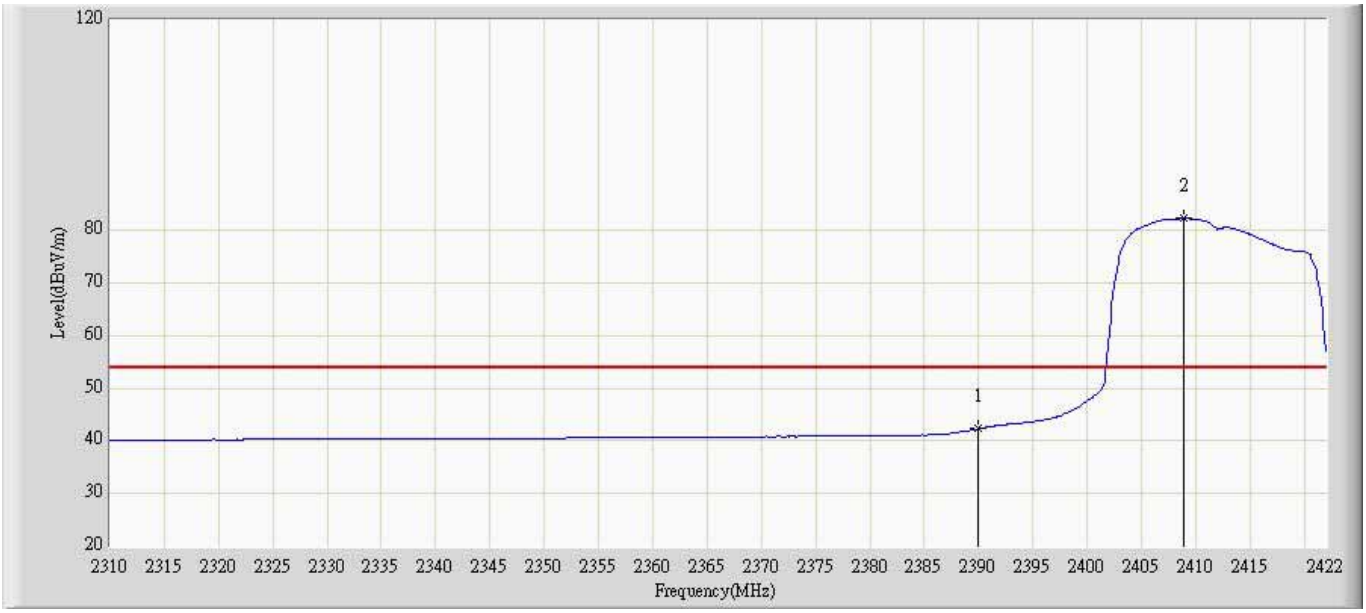

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2446.408 | 77.981 | 42.092 | N/A | N/A | 35.889 | AV |
| 2 | | | 2483.500 | 52.270 | 16.214 | -1.730 | 54.000 | 36.055 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 21:58 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1+2 | |



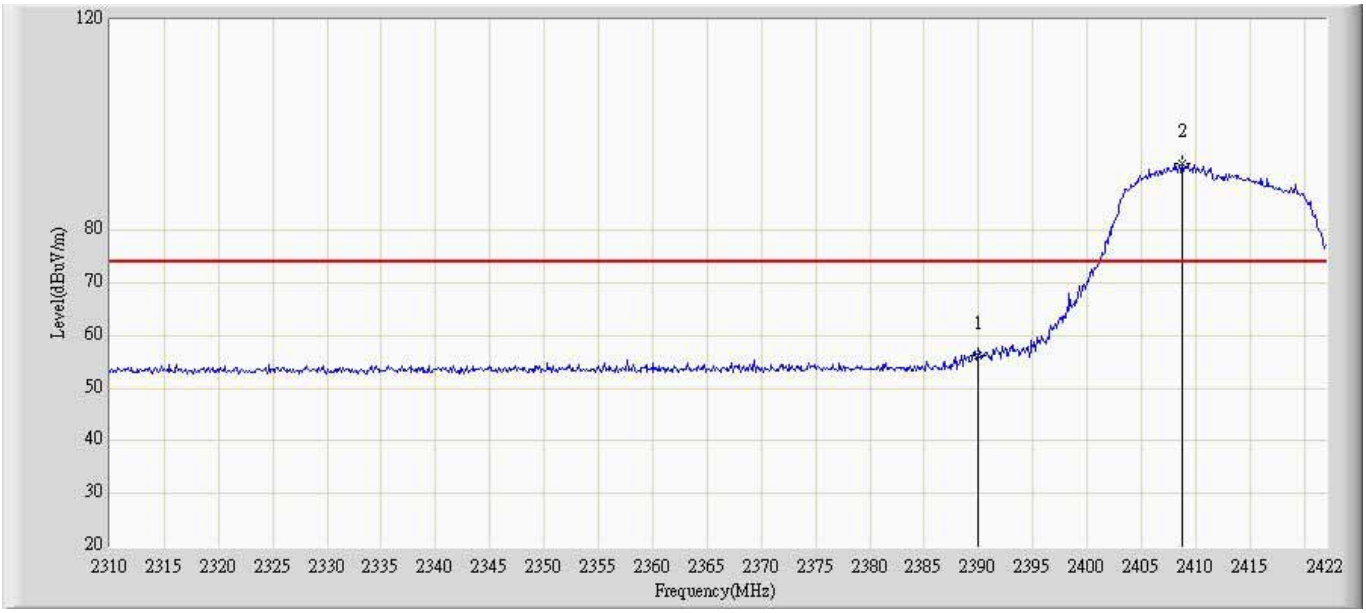

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 55.758 | 19.457 | -18.242 | 74.000 | 36.302 | PK |
| 2 | | * | 2409.232 | 93.170 | 56.711 | N/A | N/A | 36.459 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:00 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1+2 | |



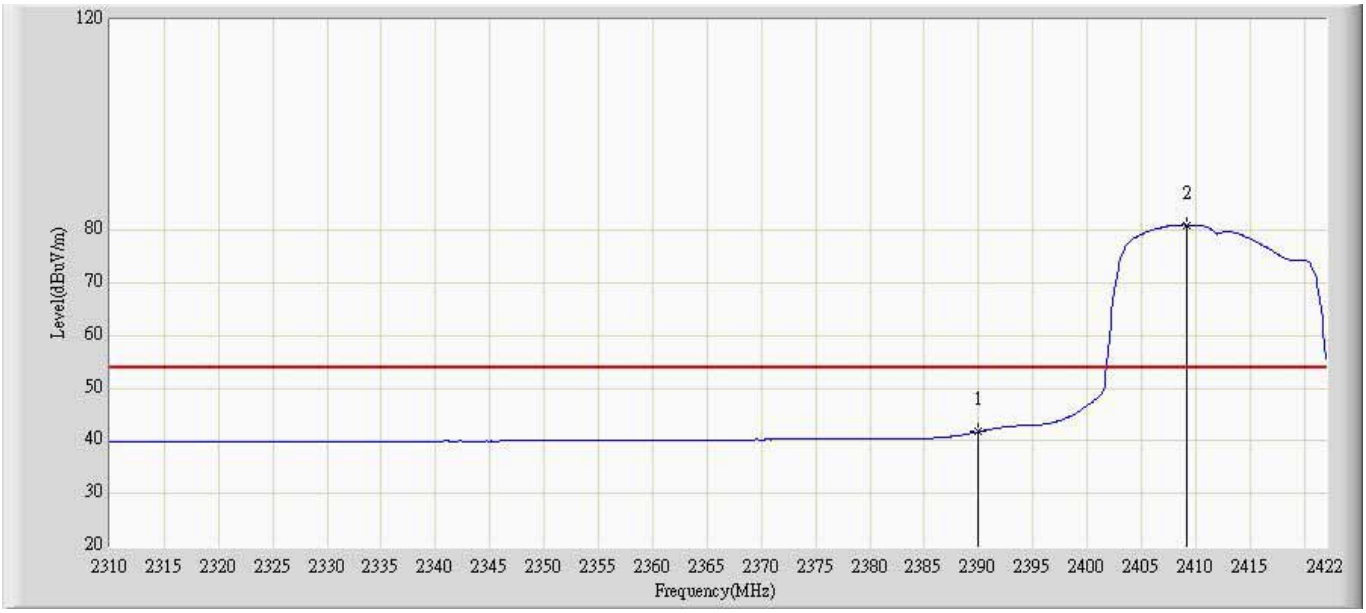

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 42.323 | 6.022 | -11.677 | 54.000 | 36.302 | AV |
| 2 | | * | 2408.896 | 82.269 | 45.812 | N/A | N/A | 36.457 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:01 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1+2 | |



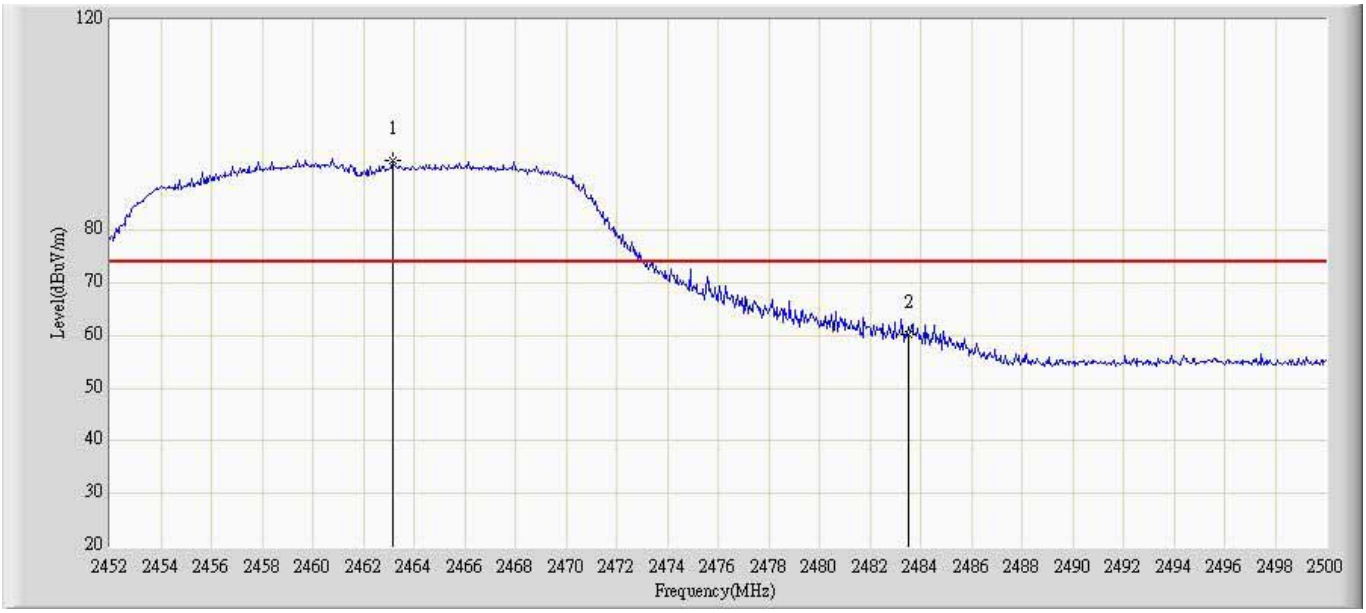

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 56.291 | 20.650 | -17.709 | 74.000 | 35.642 | PK |
| 2 | | * | 2408.784 | 92.566 | 56.845 | N/A | N/A | 35.721 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:07 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2412MHz by 802.11n20 Chain 0+1+2 | |



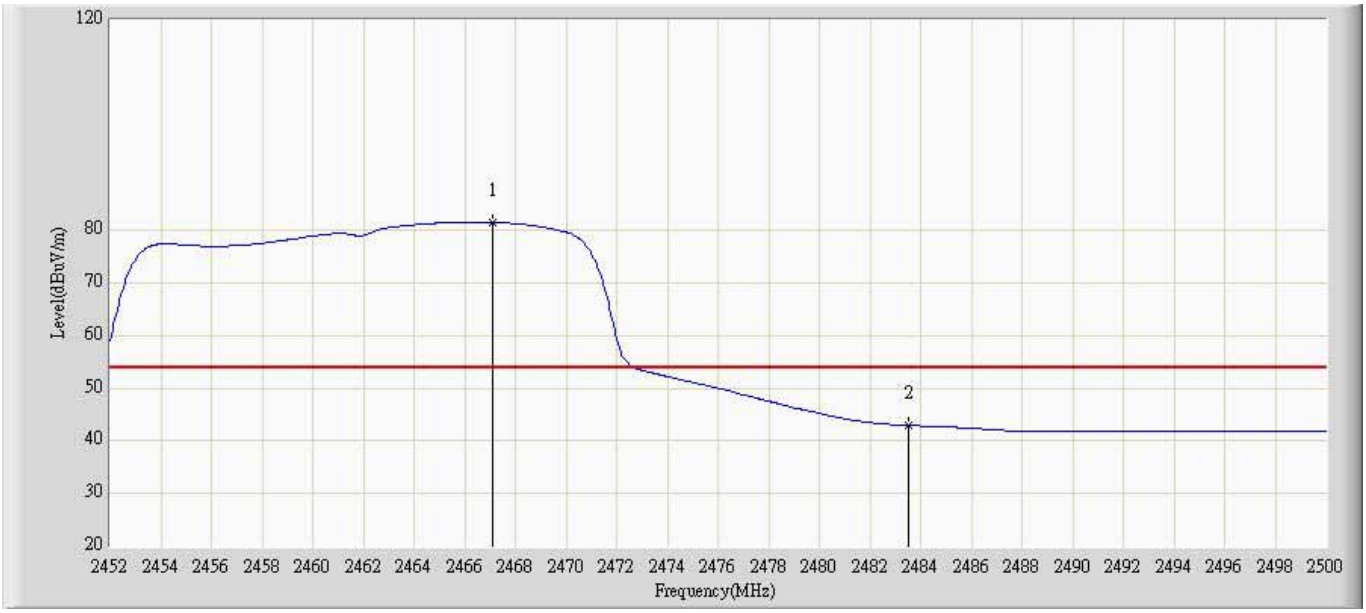

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 41.777 | 6.136 | -12.223 | 54.000 | 35.642 | AV |
| 2 | | * | 2409.232 | 81.057 | 45.334 | N/A | N/A | 35.723 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:08 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1+2 | |



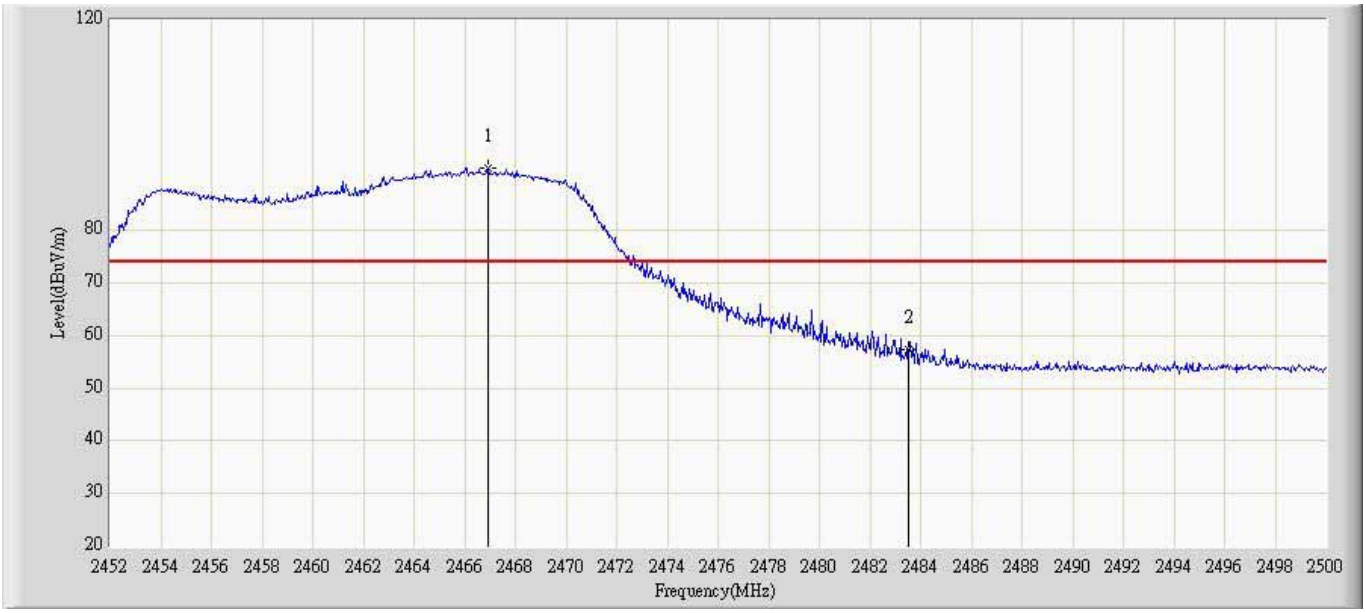

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2463.136 | 93.316 | 56.396 | N/A | N/A | 36.921 | PK |
| 2 | | | 2483.500 | 60.296 | 23.206 | -13.704 | 74.000 | 37.089 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1+2 | |



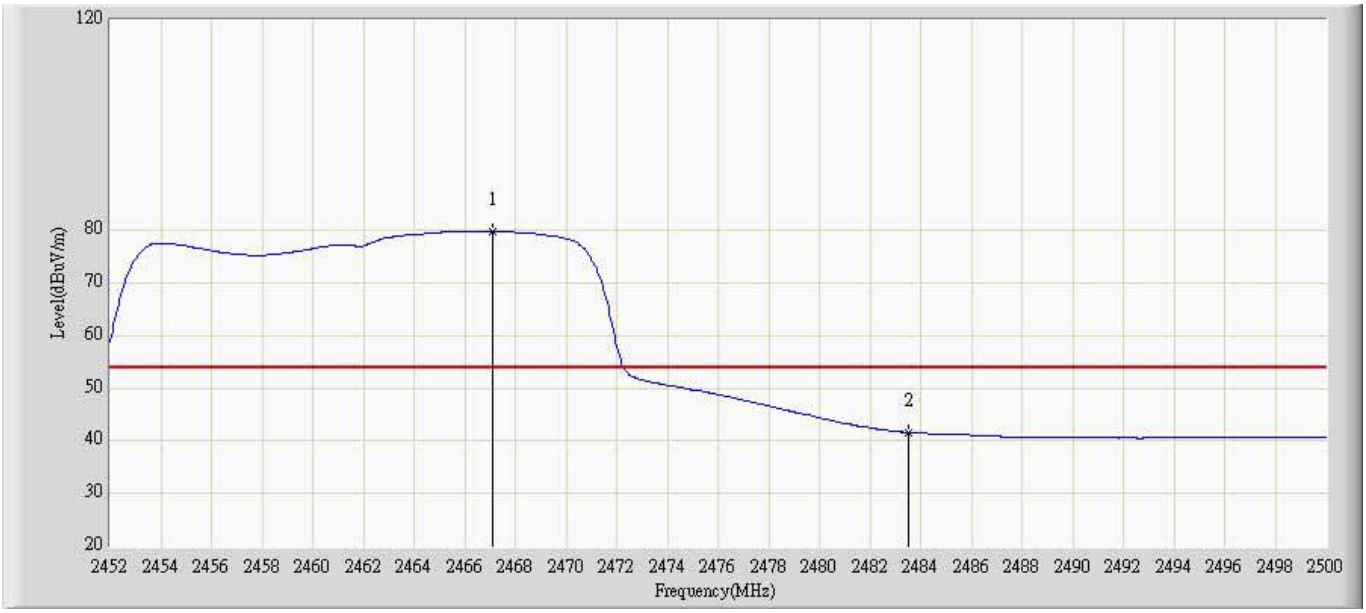

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2467.120 | 81.527 | 44.574 | N/A | N/A | 36.953 | AV |
| 2 | | | 2483.500 | 42.948 | 5.858 | -11.052 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1+2 | |



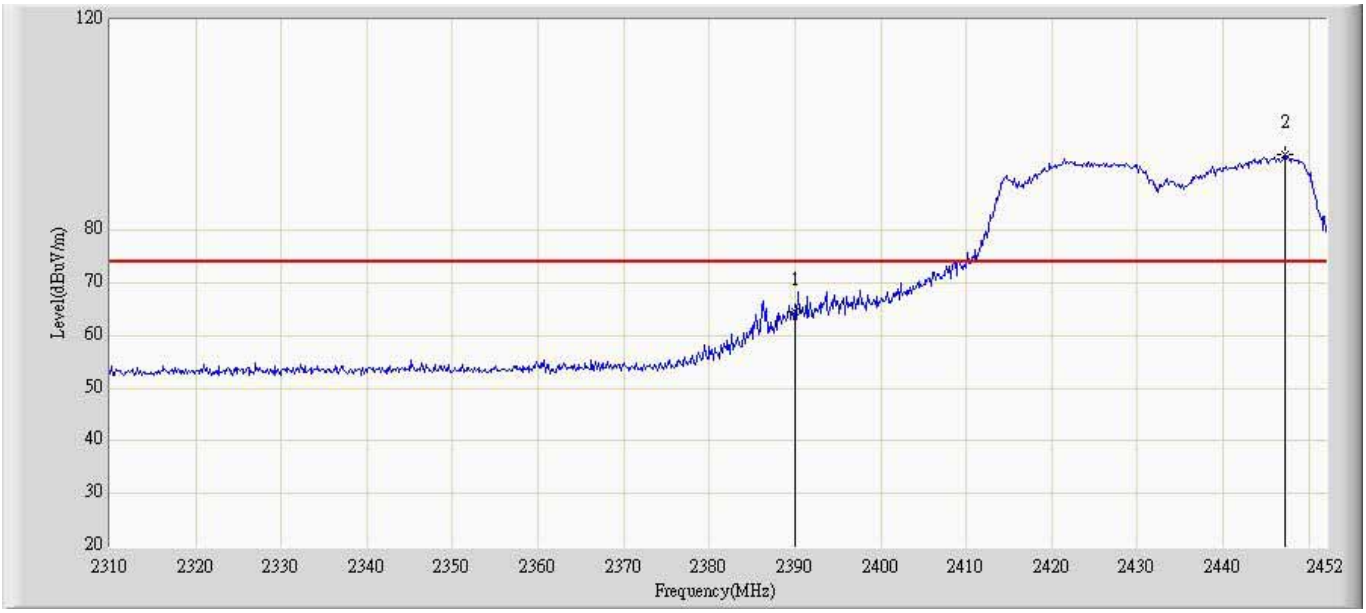

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2466.928 | 91.857 | 55.873 | N/A | N/A | 35.984 | PK |
| 2 | | | 2483.500 | 57.331 | 21.275 | -16.669 | 74.000 | 36.055 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 3:Transmit at 2462MHz by 802.11n20 Chain 0+1+2 | |



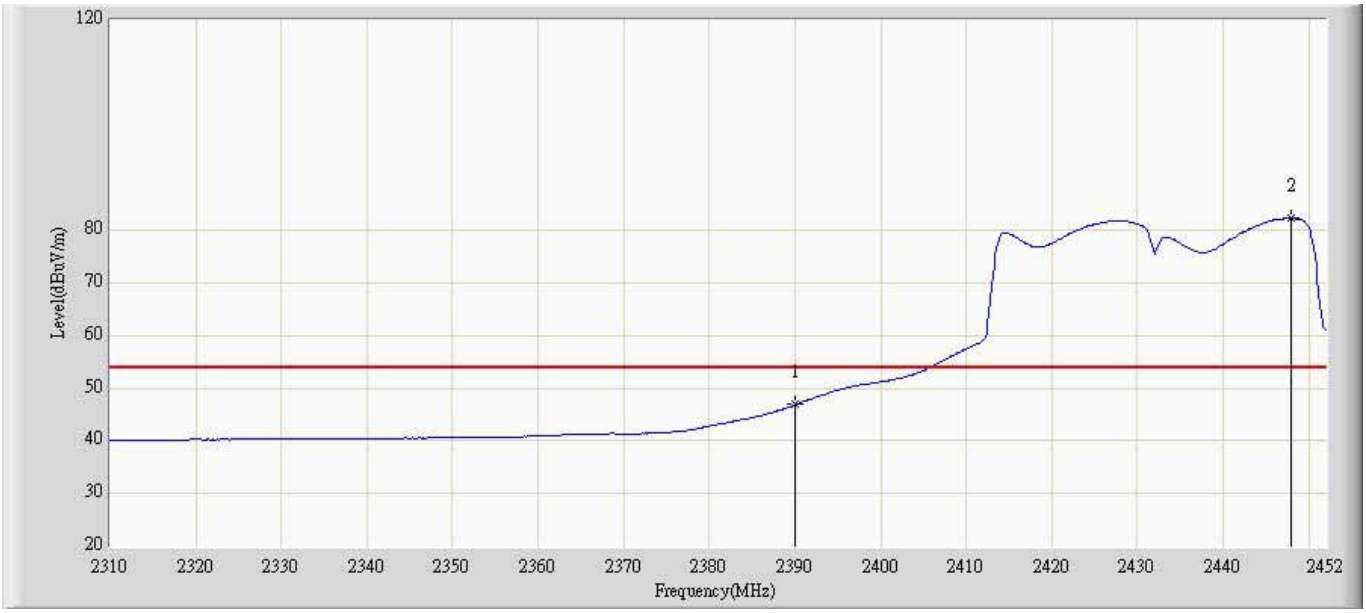

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2467.120 | 79.795 | 43.811 | N/A | N/A | 35.984 | AV |
| 2 | | | 2483.500 | 41.618 | 5.562 | -12.382 | 54.000 | 36.055 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:16 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1+2 | |



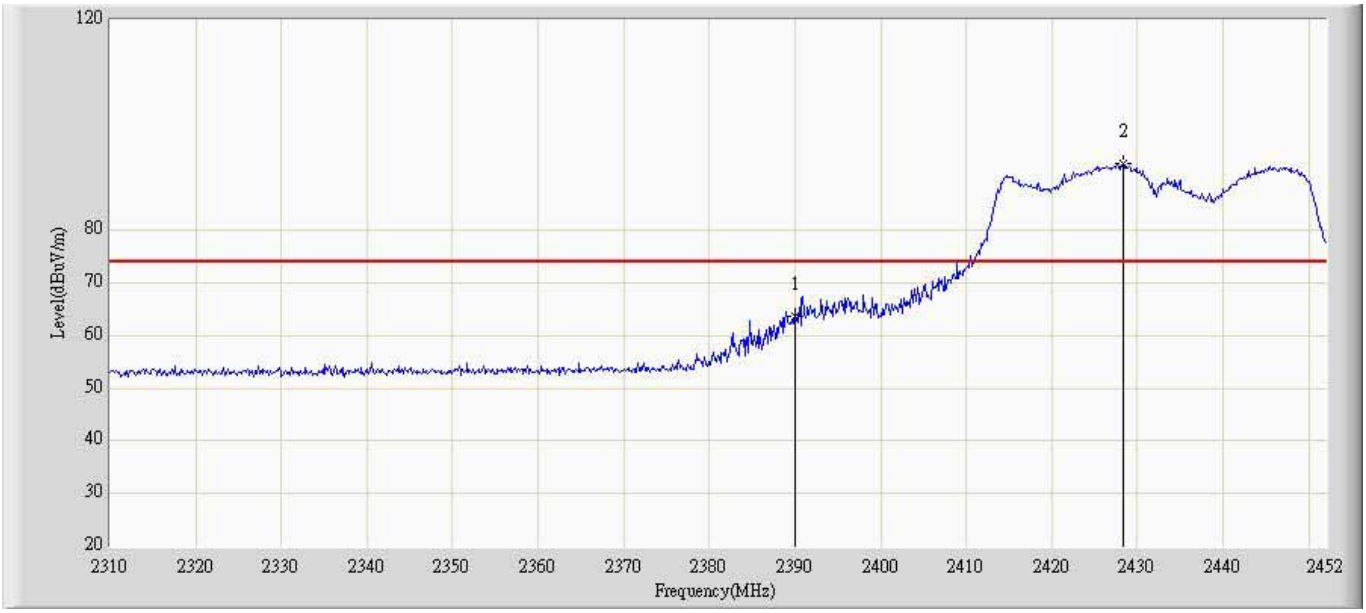

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 64.572 | 28.271 | -9.428 | 74.000 | 36.302 | PK |
| 2 | | * | 2447.172 | 94.467 | 57.686 | N/A | N/A | 36.781 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:19 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1+2 | |



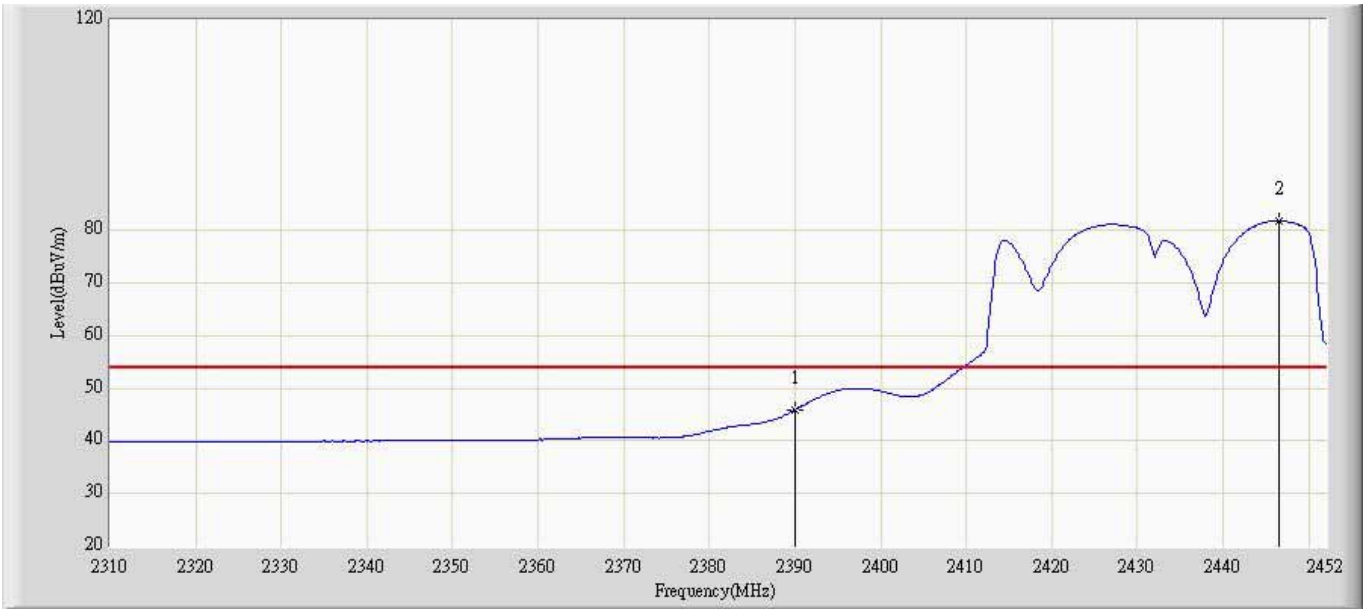

| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 46.879 | 10.578 | -7.121 | 54.000 | 36.302 | AV |
| 2 | | * | 2448.024 | 82.295 | 45.506 | N/A | N/A | 36.789 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:20 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1+2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 63.757 | 28.116 | -10.243 | 74.000 | 35.642 | PK |
| 2 | | * | 2428.286 | 92.804 | 56.992 | N/A | N/A | 35.812 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:22 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2422MHz by 802.11n40 Chain 0+1+2 | |

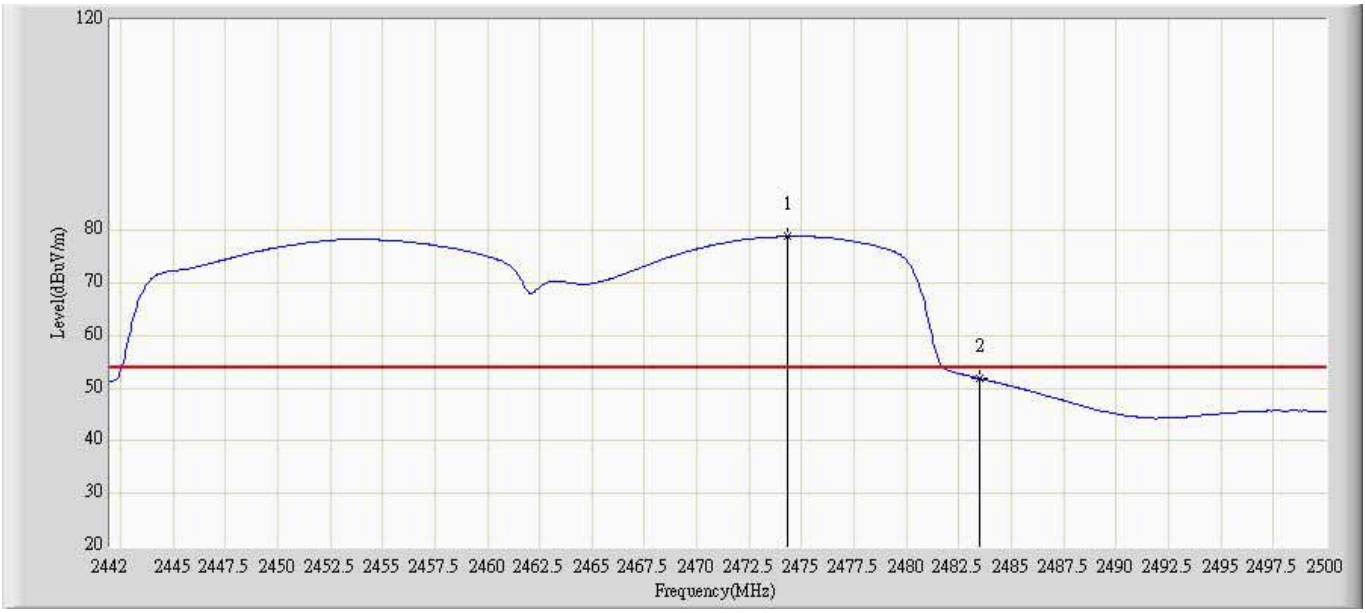



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | | 2390.000 | 45.926 | 10.285 | -8.074 | 54.000 | 35.642 | AV |
| 2 | | * | 2446.604 | 81.773 | 45.883 | N/A | N/A | 35.890 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1+2 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2454.412 | 91.715 | 54.871 | N/A | N/A | 36.844 | PK |
| 2 | | | 2483.500 | 72.837 | 35.747 | -1.163 | 74.000 | 37.089 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:26 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1+2 | |




| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2474.306 | 78.853 | 41.841 | N/A | N/A | 37.011 | AV |
| 2 | | | 2483.500 | 51.849 | 14.759 | -2.151 | 54.000 | 37.089 | AV |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:27 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1+2 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2457.544 | 90.270 | 54.328 | N/A | N/A | 35.942 | PK |
| 2 | | | 2483.500 | 71.011 | 34.955 | -2.989 | 74.000 | 36.055 | PK |

| | |
|---|---|
| Engineer: Brgant | |
| Site: AC5 | Time: 2013/04/19 - 22:29 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER | Power: AC 120V/60Hz |
| Note: Mode 4:Transmit at 2452MHz by 802.11n40 Chain 0+1+2 | |


| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|---|---|---|---|---|---|---|---|---|---|
| 1 | | * | 2457.138 | 78.120 | 42.180 | N/A | N/A | 35.940 | AV |
| 2 | | | 2483.500 | 50.696 | 14.640 | -3.304 | 54.000 | 36.055 | AV |

# 7. Operation Frequency Range of 20dB Bandwidth

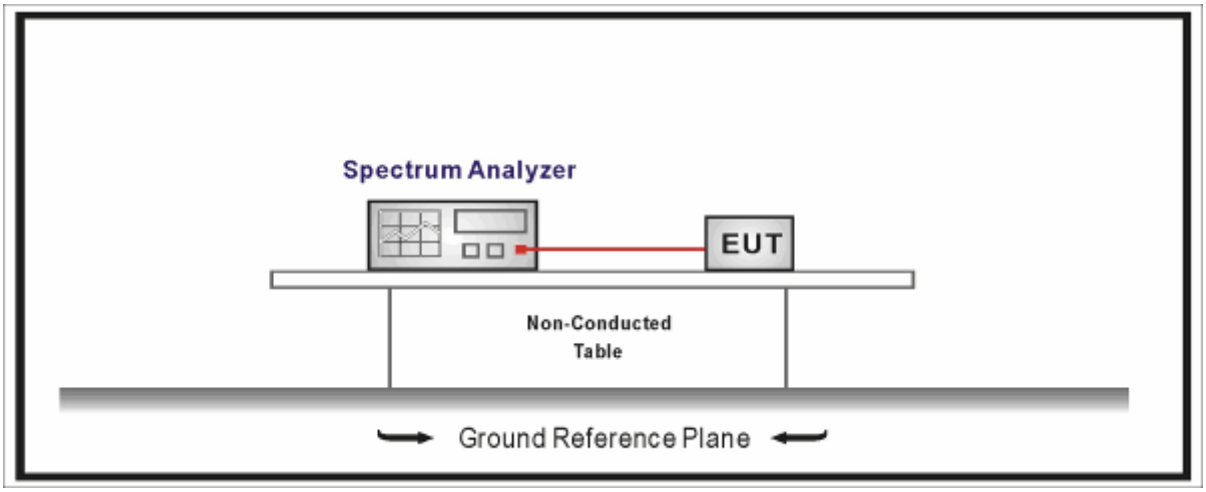
## 7.1. Test Equipment

Operation Frequency Range of 20dB Bandwidth / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2014.01.21 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR8-TH | 2014.05.07 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 7.2. Test Setup




## 7.3. Limit

20 dB bandwidth of the emission is contained within the operation frequency band.

## 7.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Span greater than RBW.

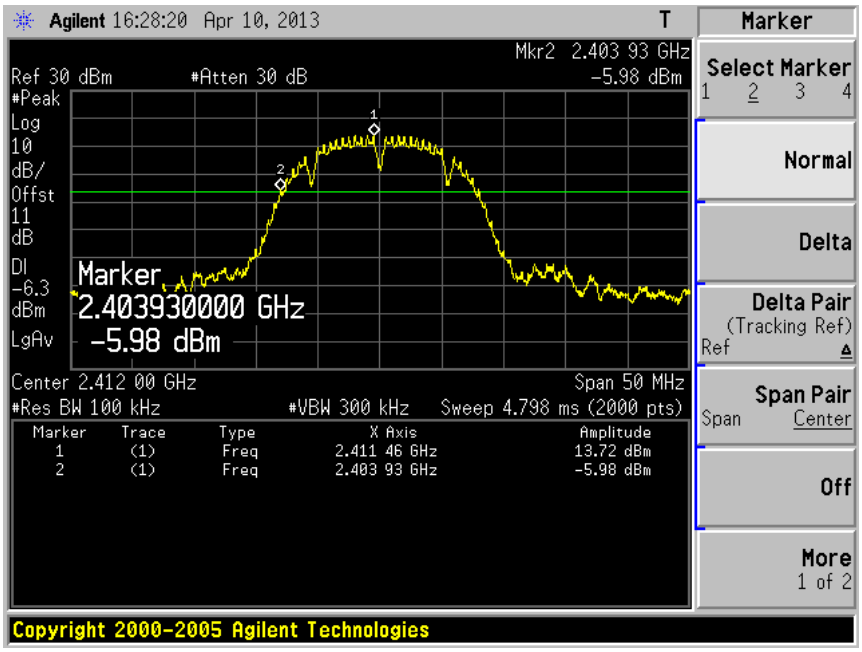
## 7.5. Uncertainty

The measurement uncertainty is defined as ± 1 kHz

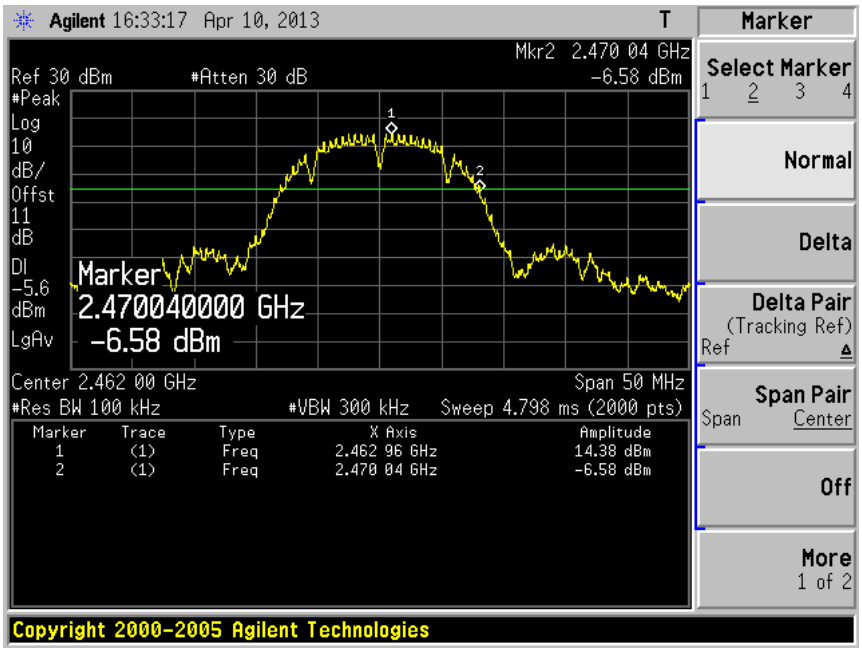
## 7.6. Test Result

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 0) |

**Channel 01 (2412MHz)**

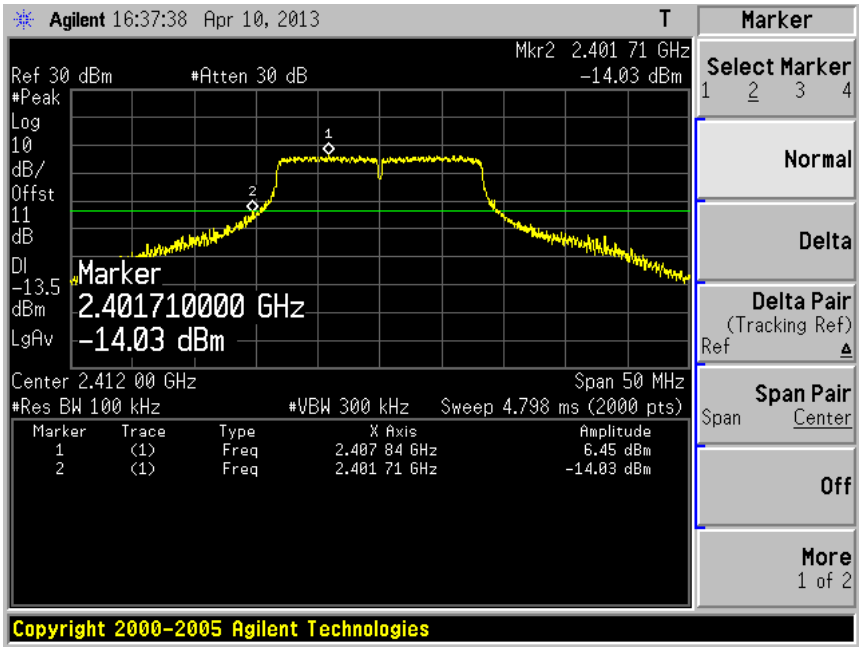



**Channel 11 (2462MHz)**

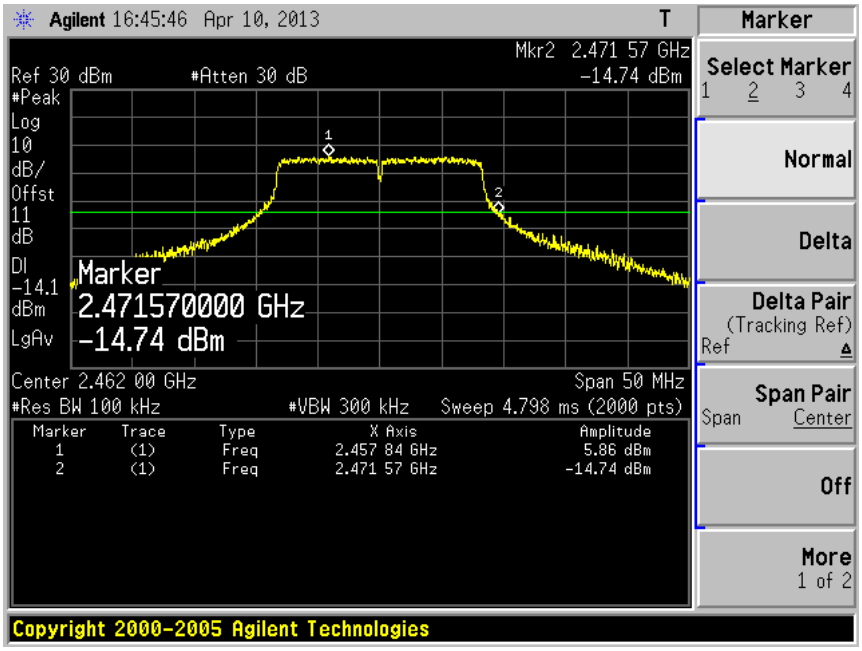


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 0) |

**Channel 01 (2412MHz)**

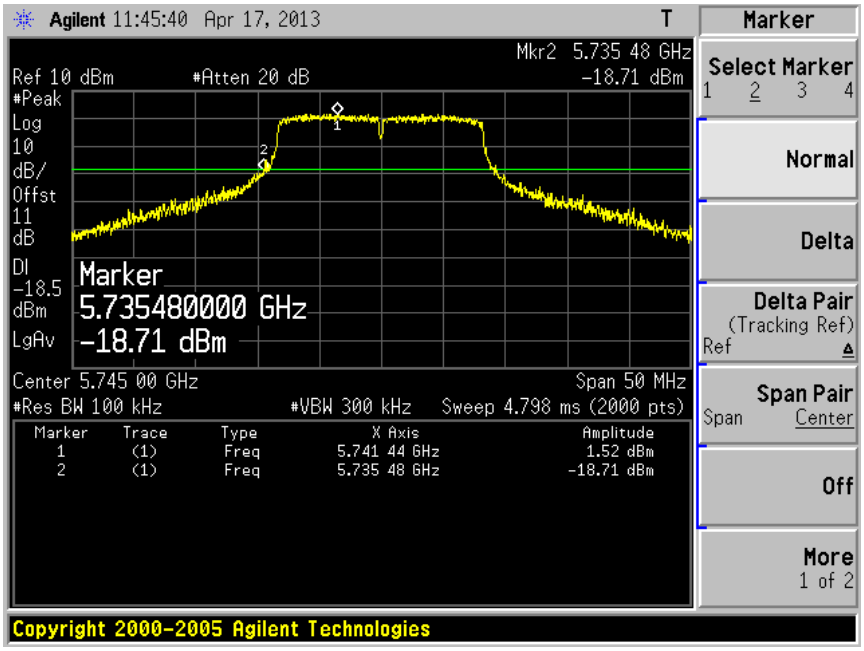



**Channel 11 (2462MHz)**

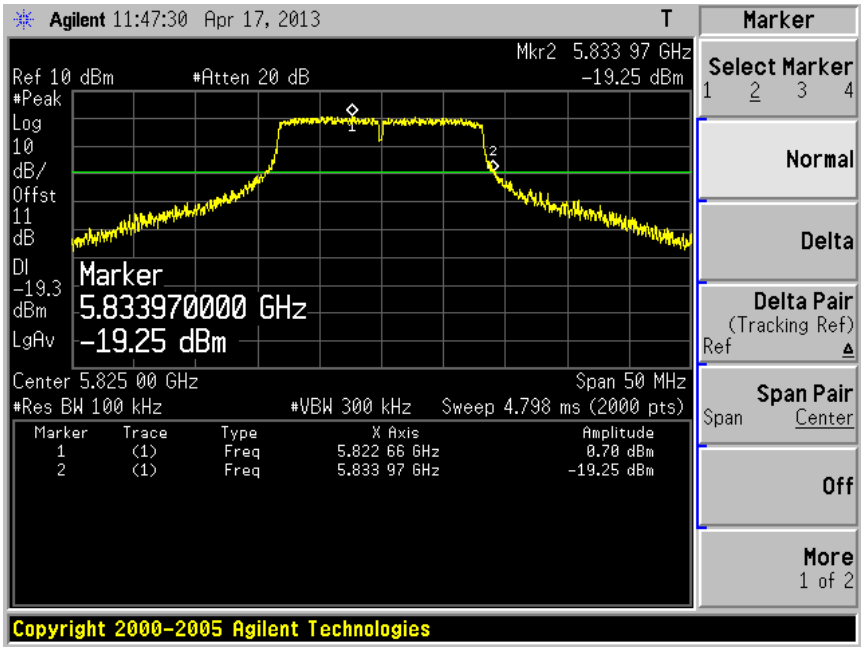


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 0) |

**Channel 149 (5745MHz)**

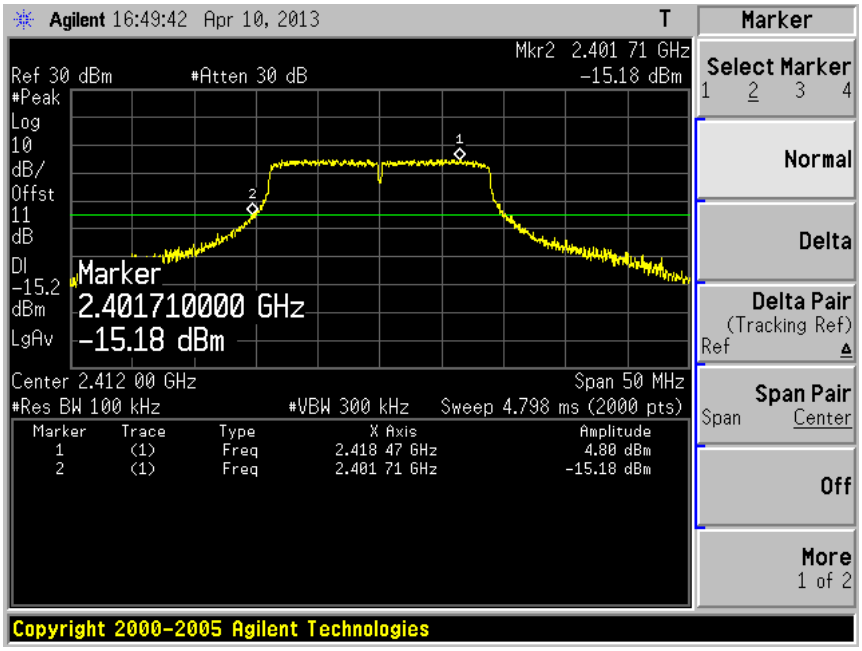



**Channel 165 (5825MHz)**

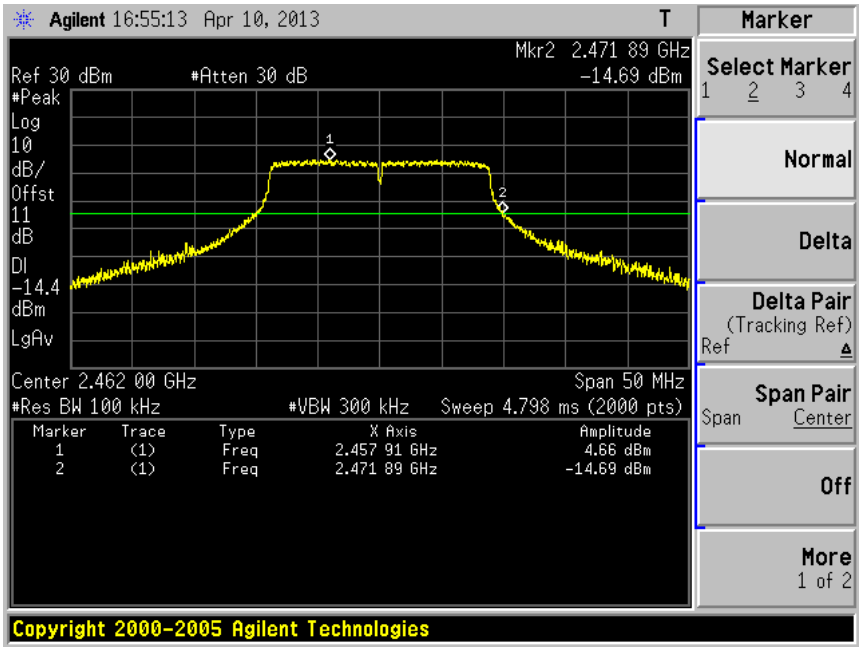


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 0) |

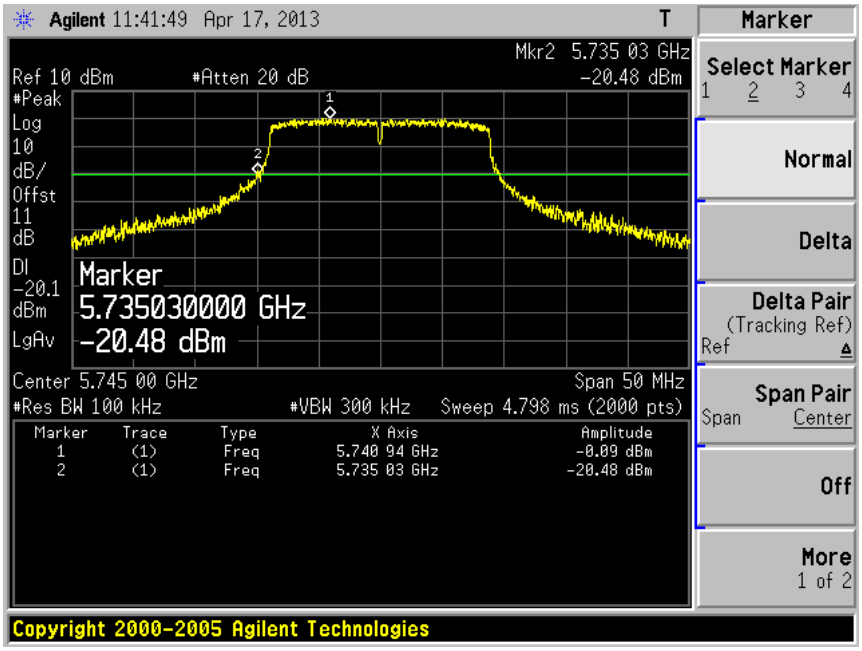
**Channel 01 (2412MHz)**



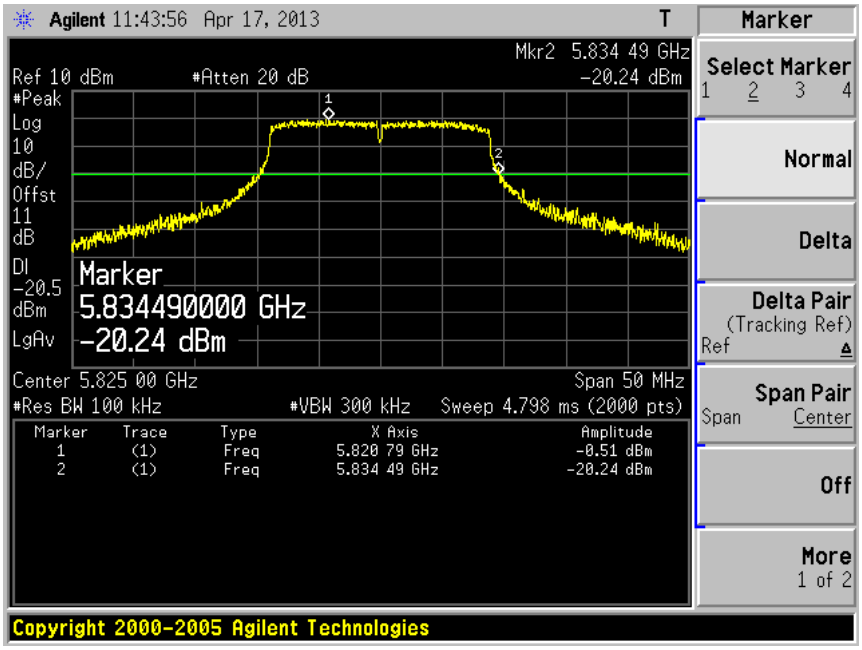

**Channel 11 (2462MHz)**



**Channel 149 (5745MHz)**

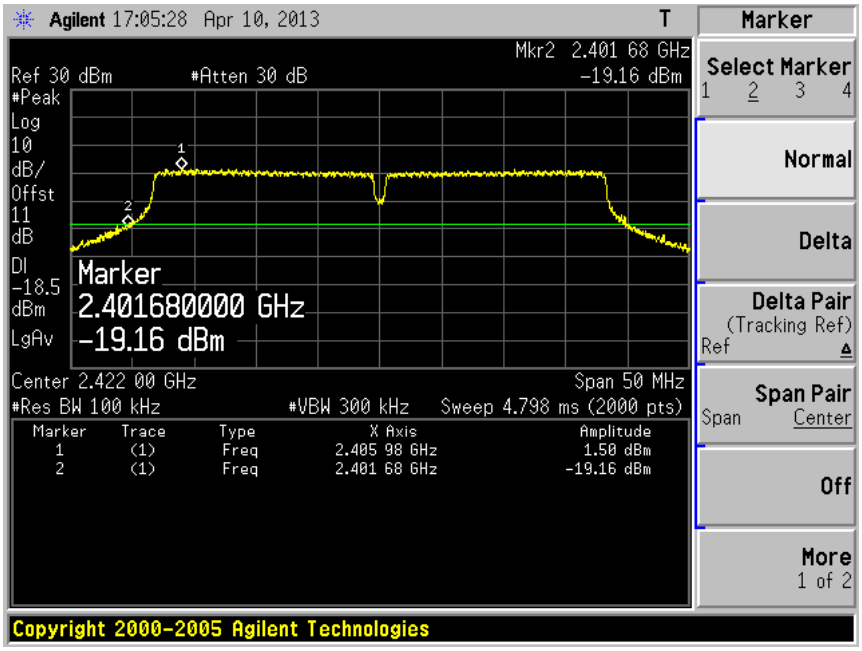



**Channel 165 (5825MHz)**

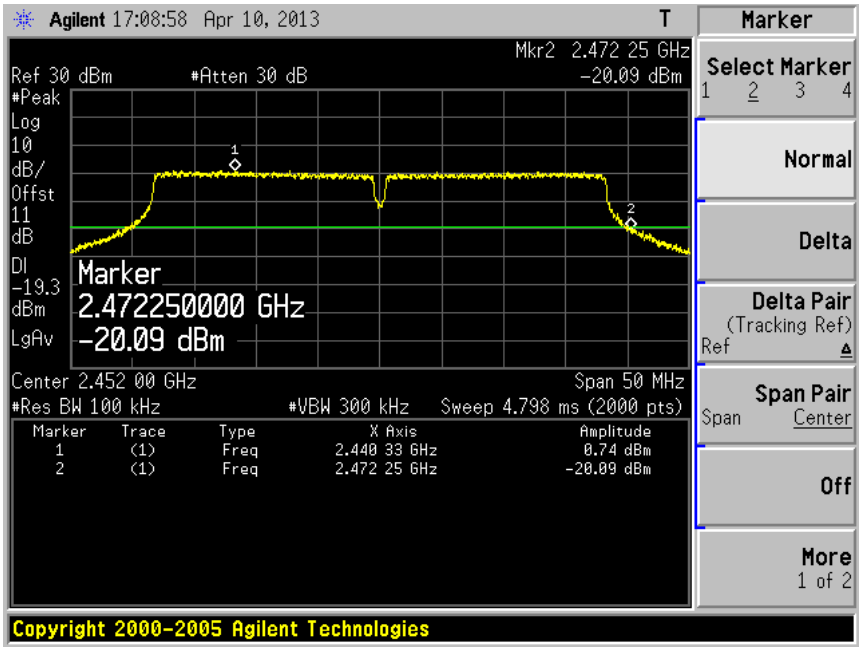


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 0) |

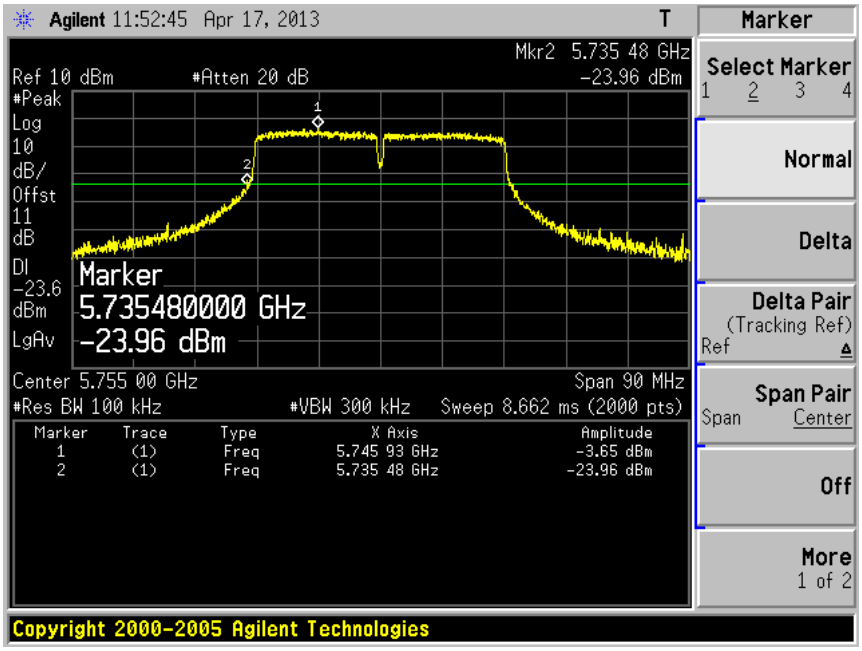
**Channel 03 (2422MHz)**



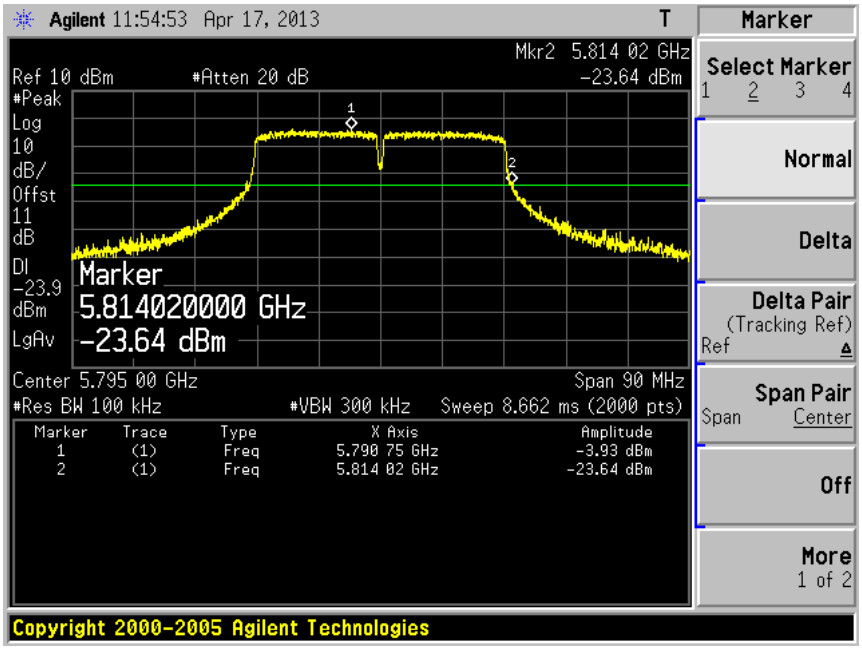

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**

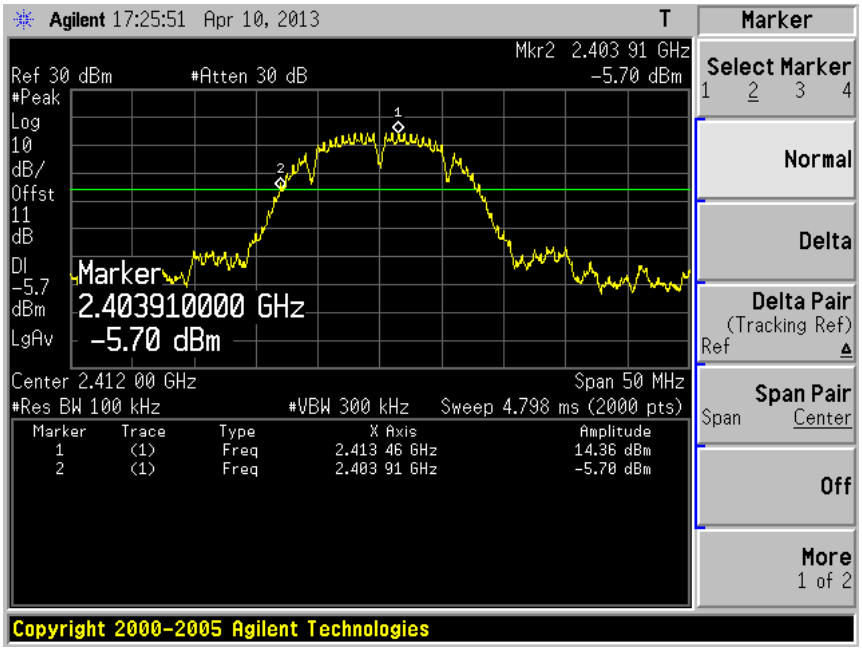



**Channel 159 (5795MHz)**

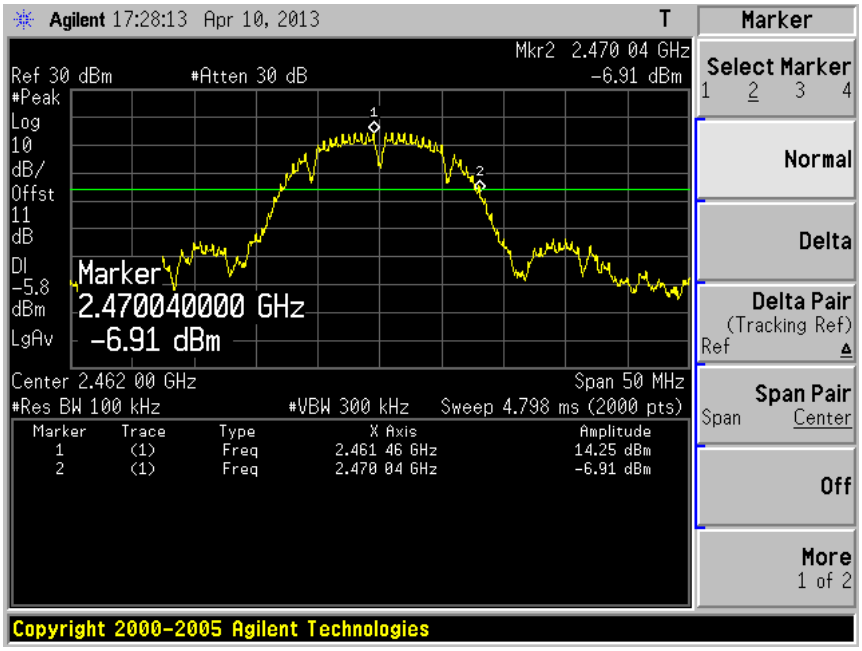


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 1) |

**Channel 01 (2412MHz)**

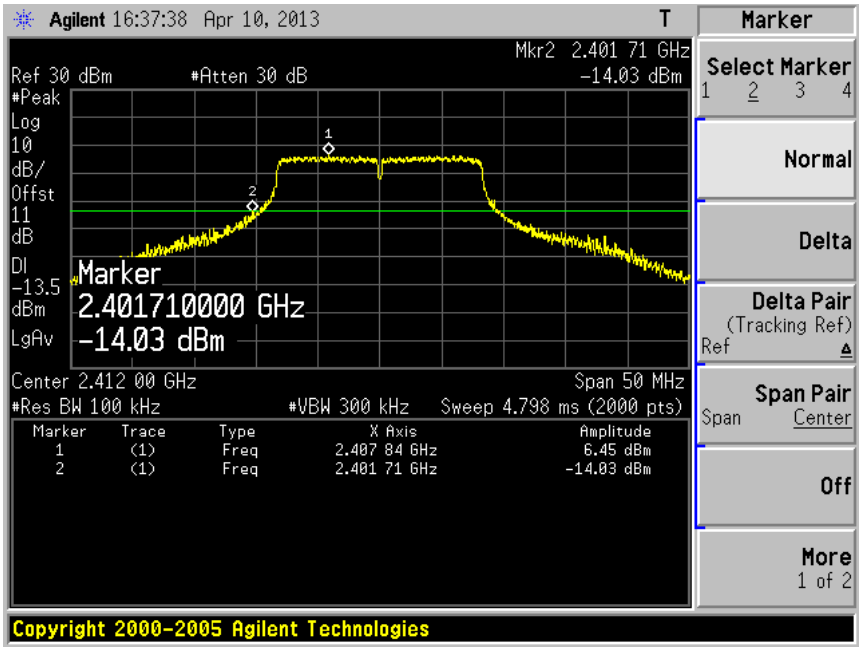



**Channel 11 (2462MHz)**

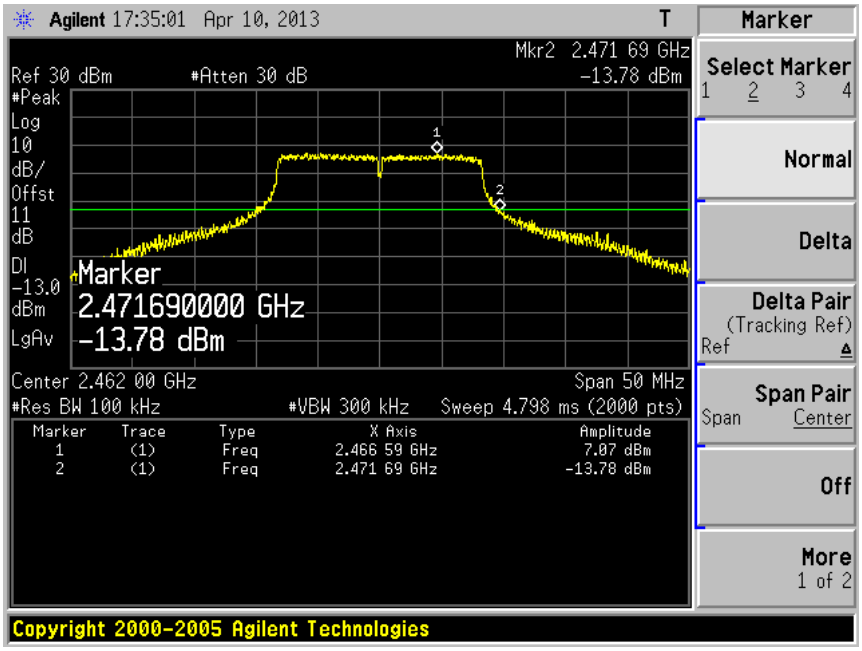


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 1) |

**Channel 01 (2412MHz)**

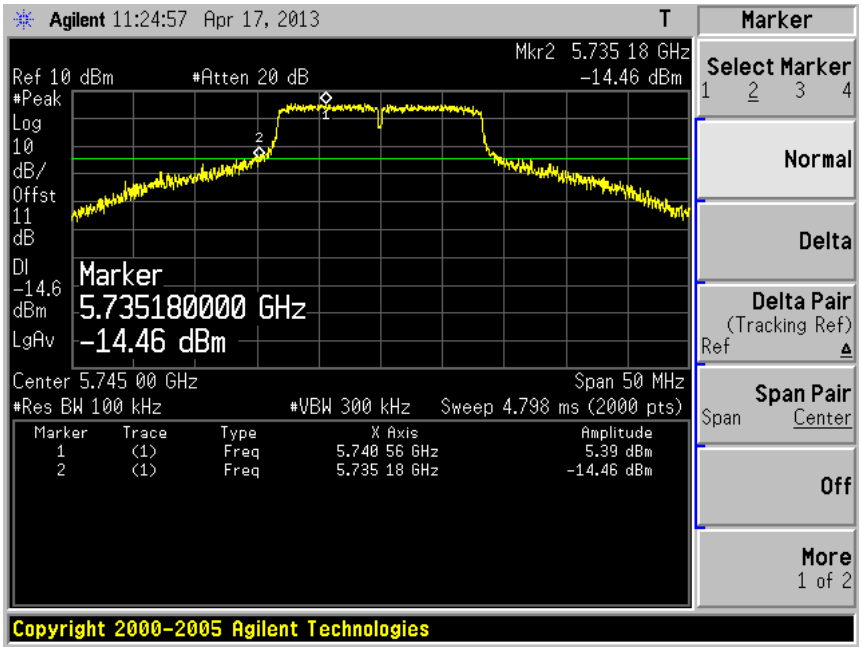



**Channel 11 (2462MHz)**

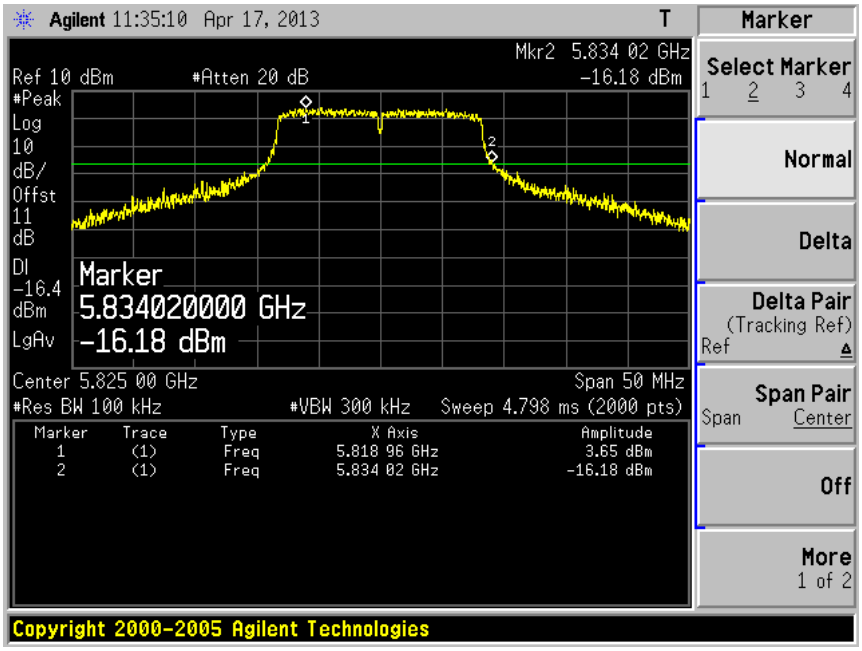


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 1) |

**Channel 149 (5745MHz)**

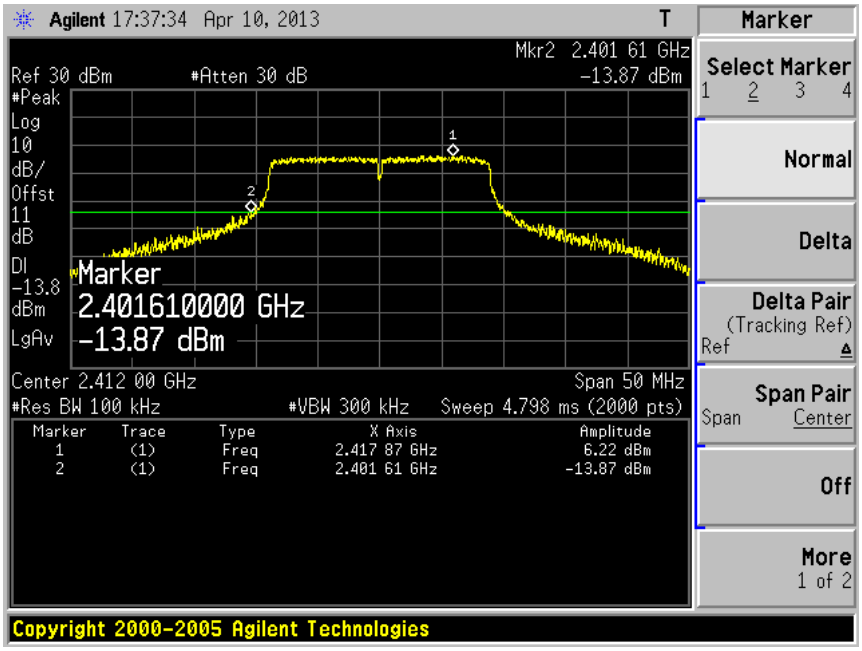



**Channel 165 (5825MHz)**

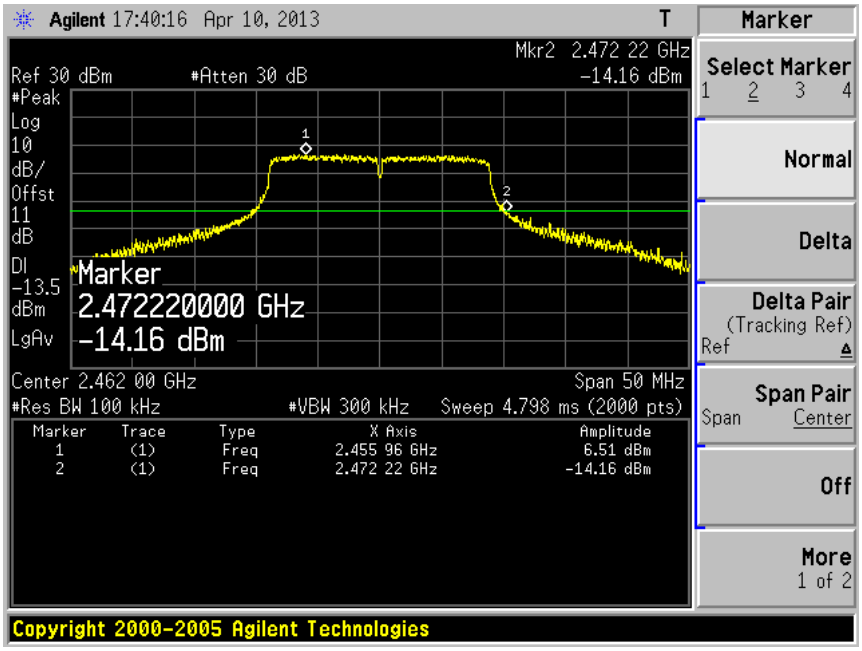


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 1) |

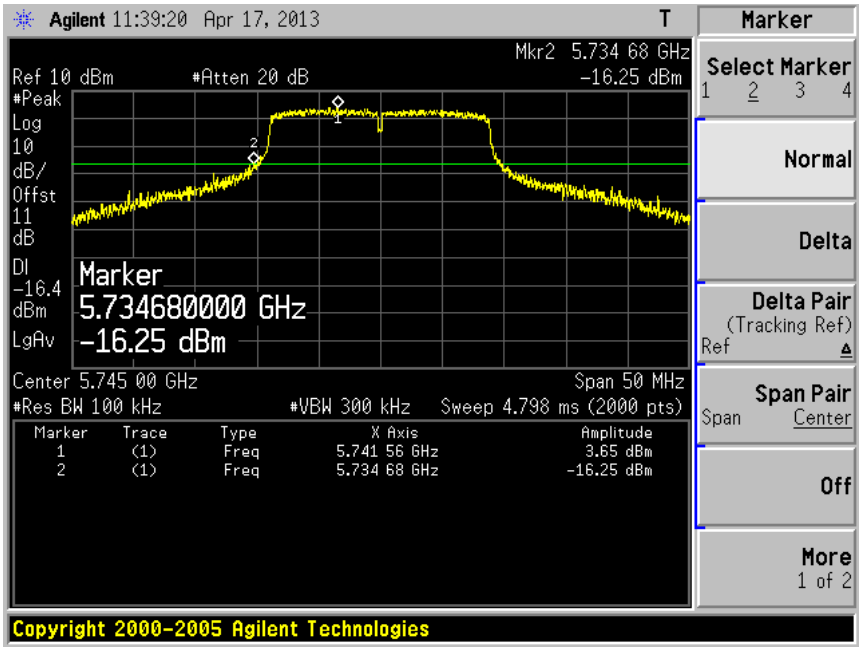
**Channel 01 (2412MHz)**



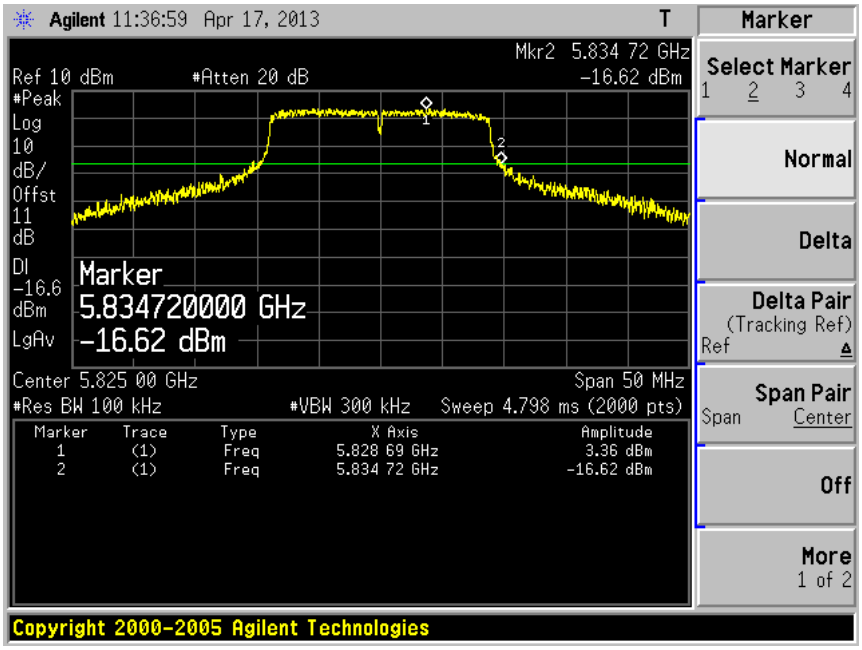

**Channel 11 (2462MHz)**



**Channel 149 (5745MHz)**

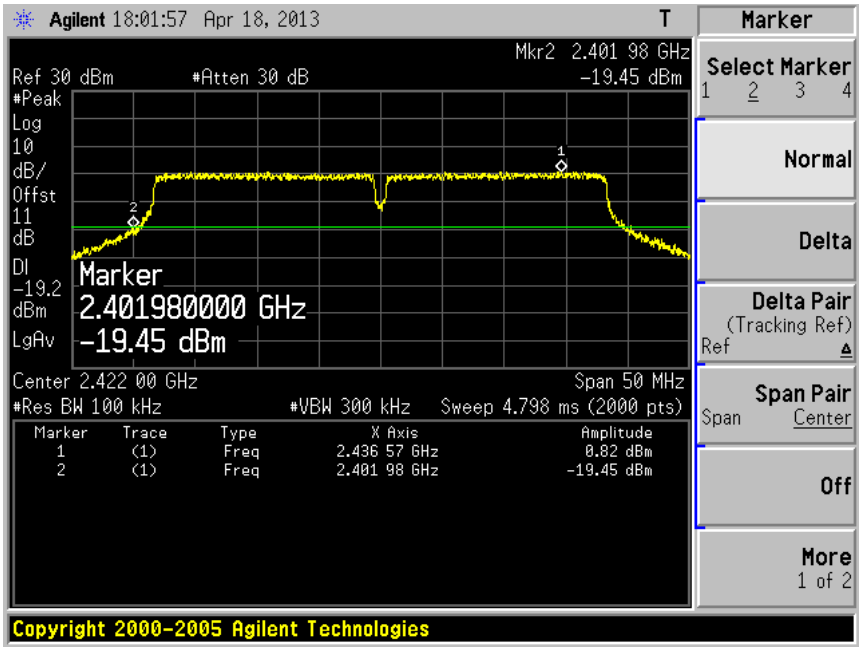



**Channel 165 (5825MHz)**

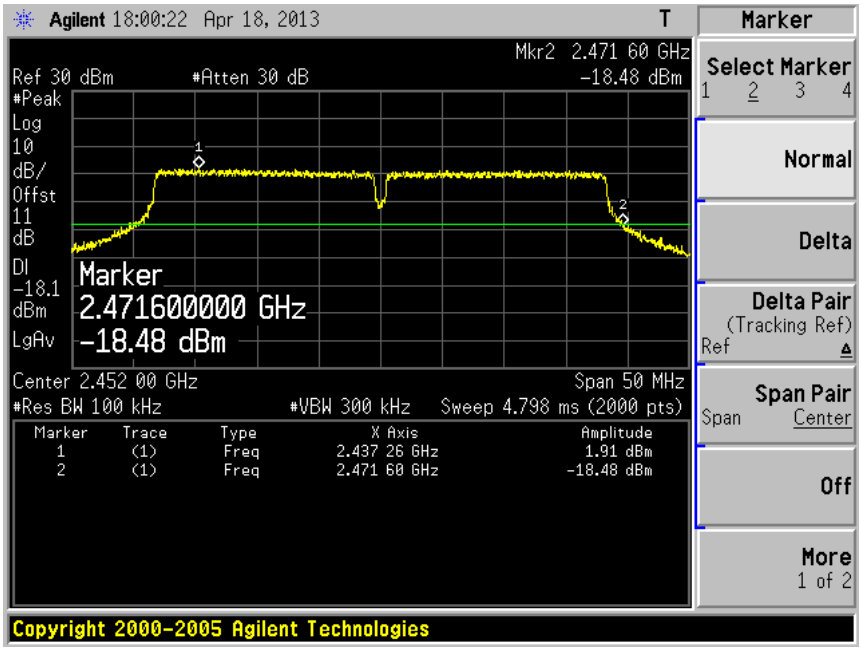


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 1) |

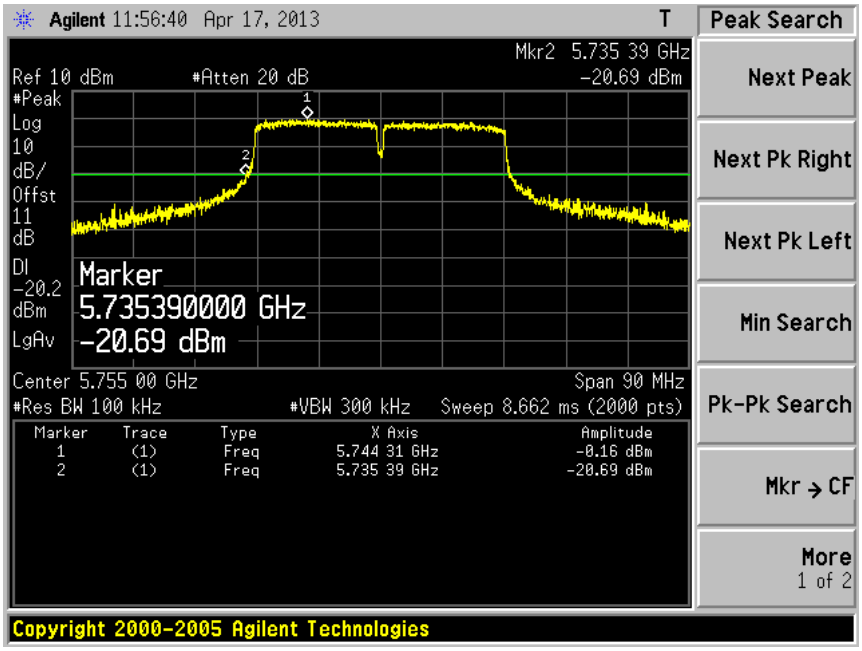
**Channel 03 (2422MHz)**



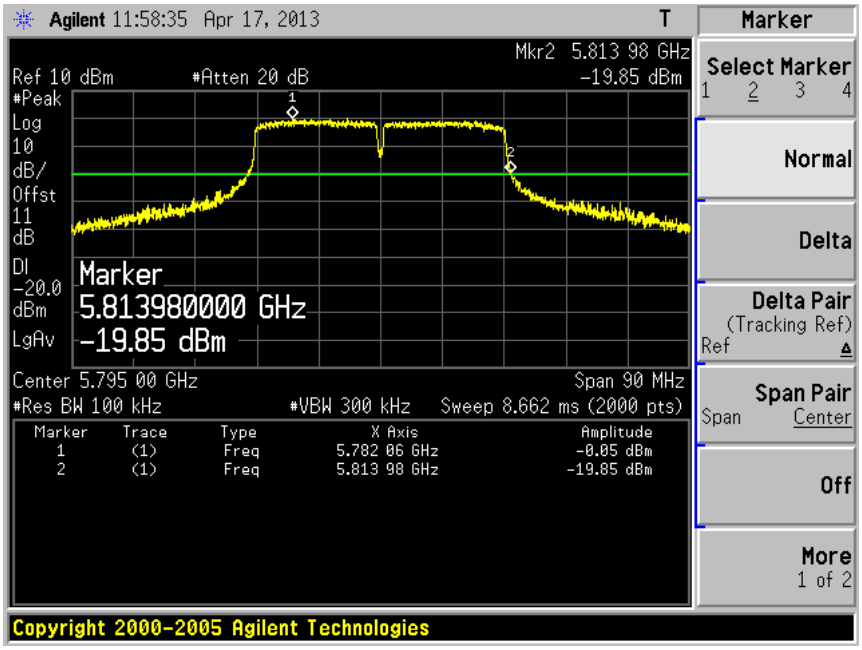

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**

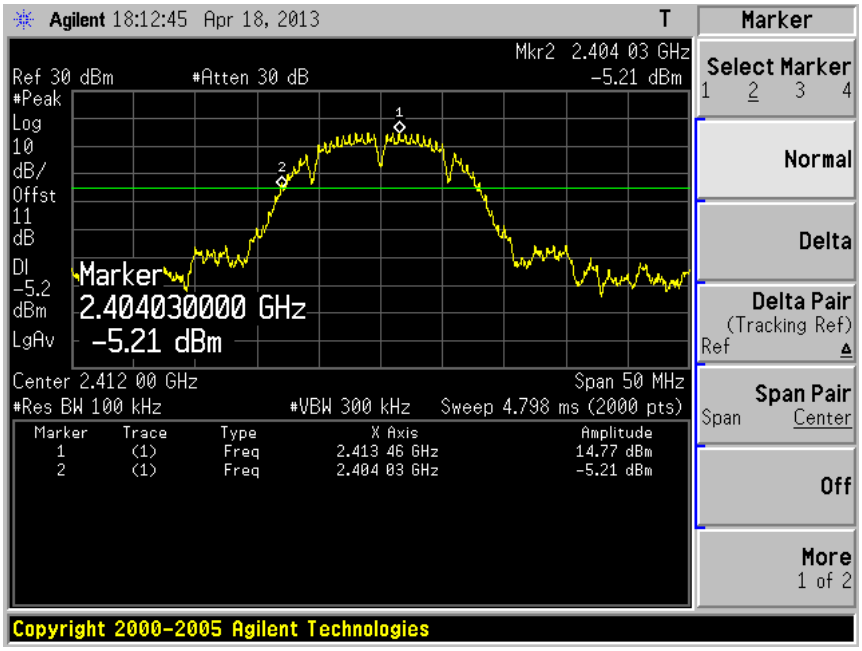



**Channel 159 (5795MHz)**

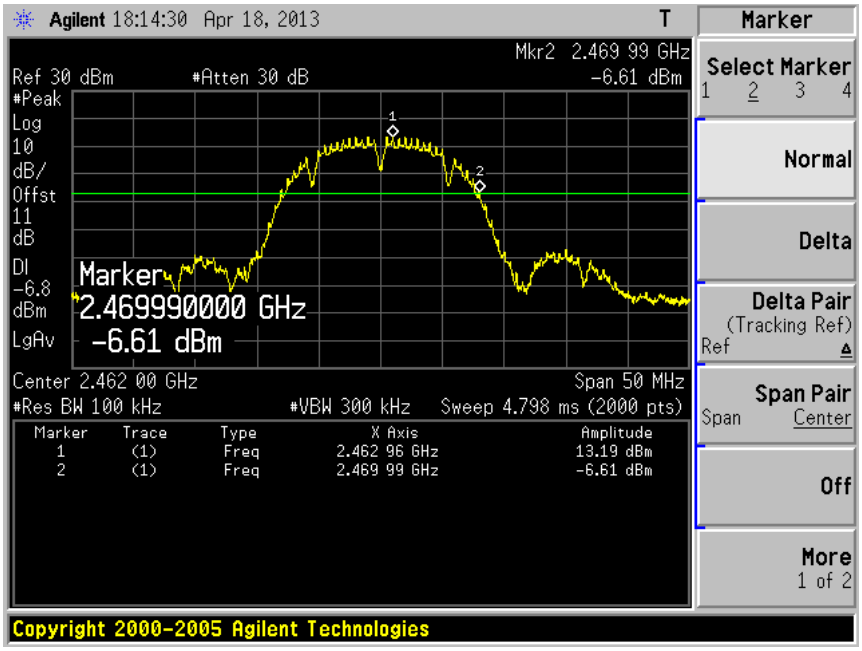


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 2) |

**Channel 01 (2412MHz)**

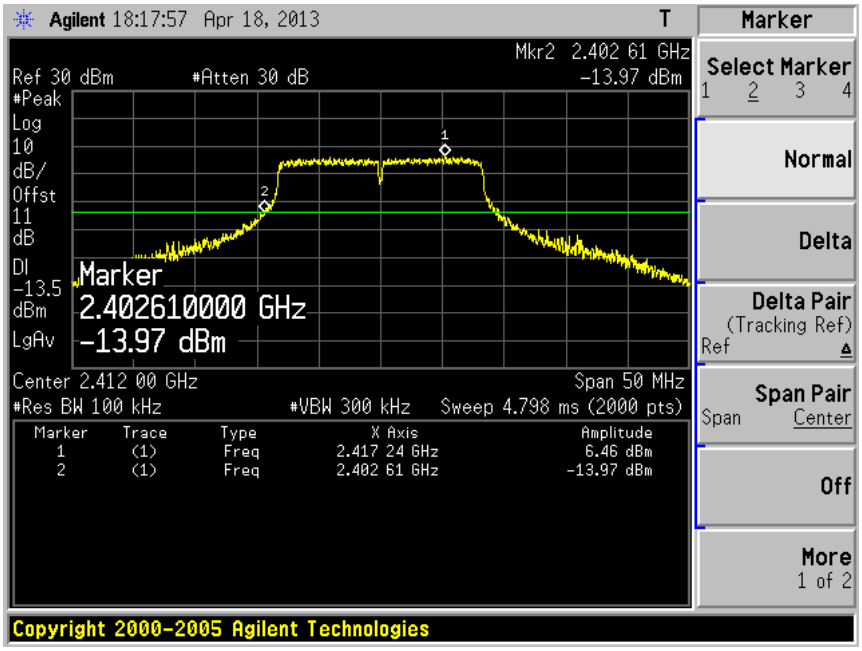



**Channel 11 (2462MHz)**

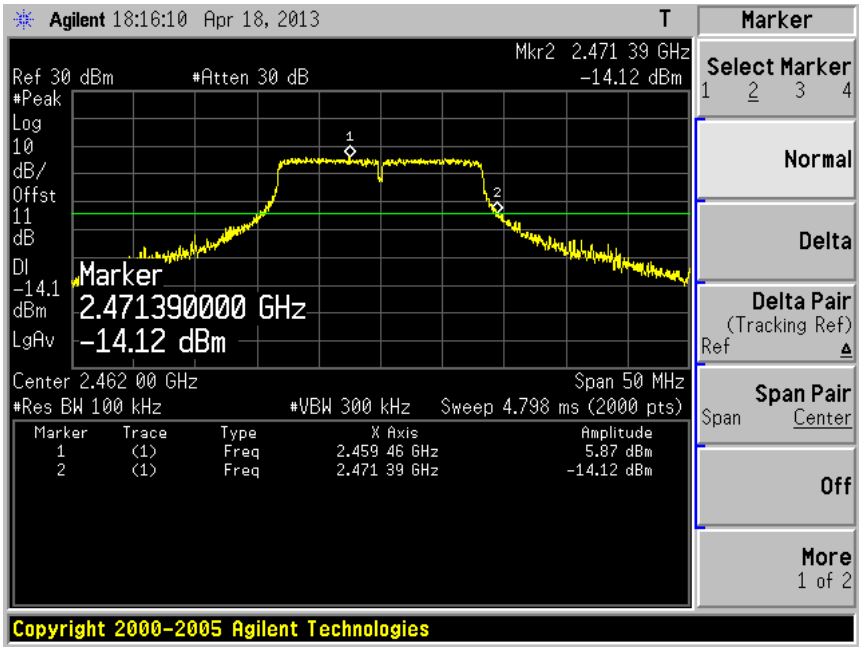


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 2) |

**Channel 01 (2412MHz)**

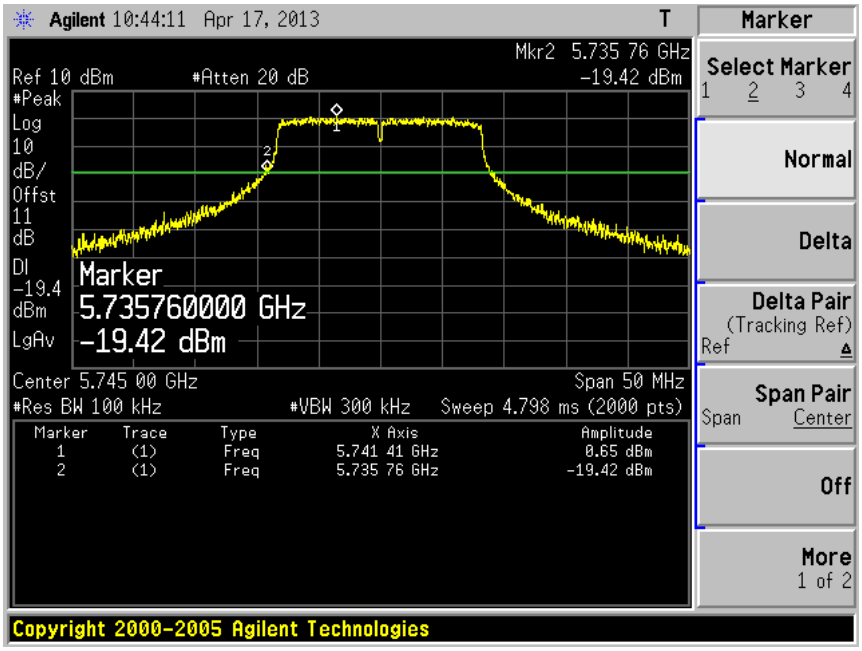



**Channel 11 (2462MHz)**

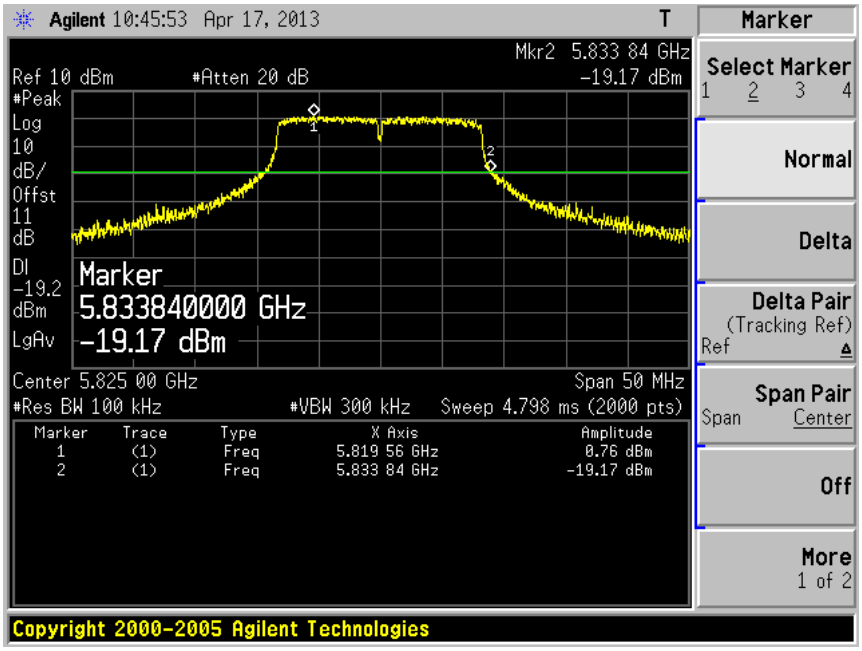


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 2) |

**Channel 149 (5745MHz)**

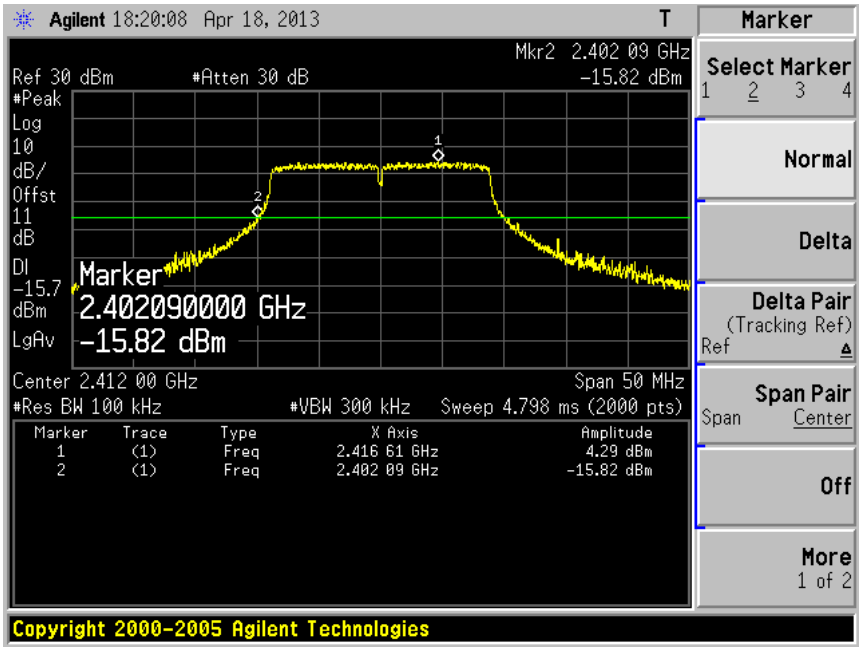



**Channel 165 (5825MHz)**

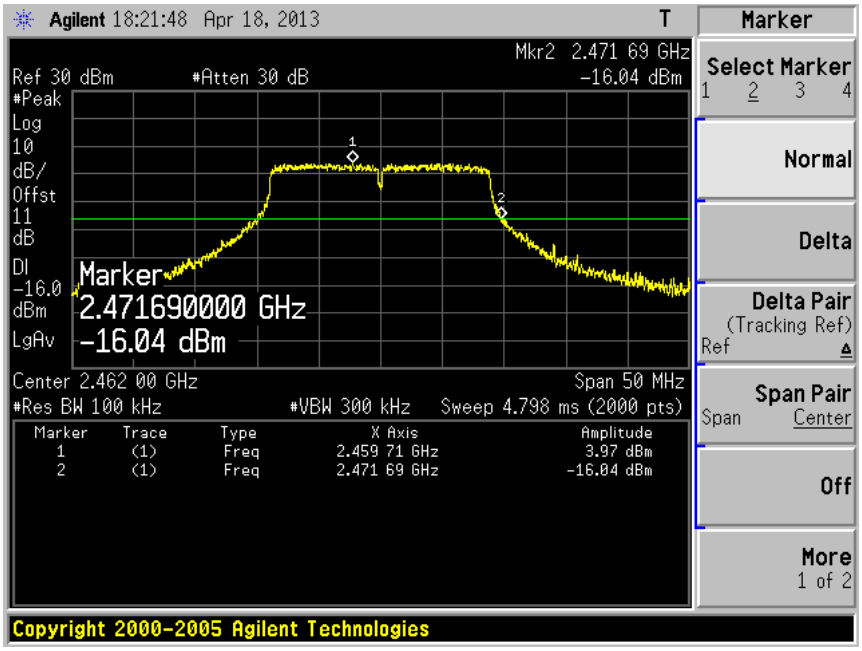


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 2) |

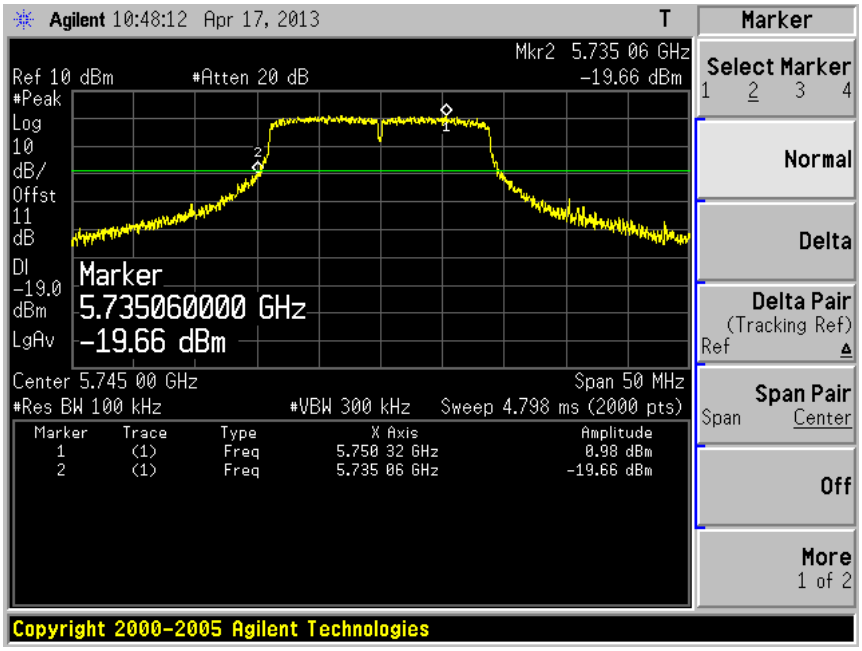
**Channel 01 (2412MHz)**



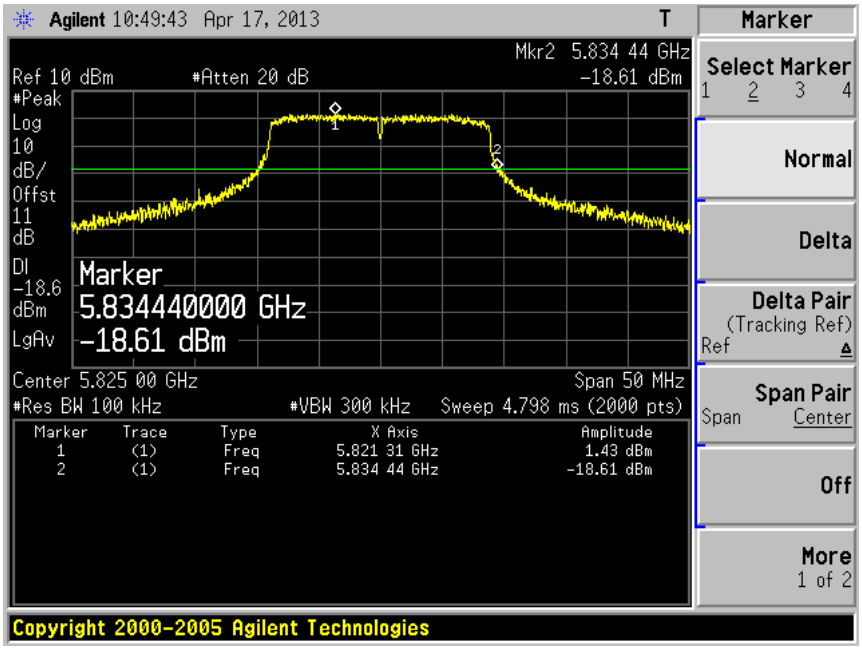

**Channel 11 (2462MHz)**



**Channel 149 (5745MHz)**

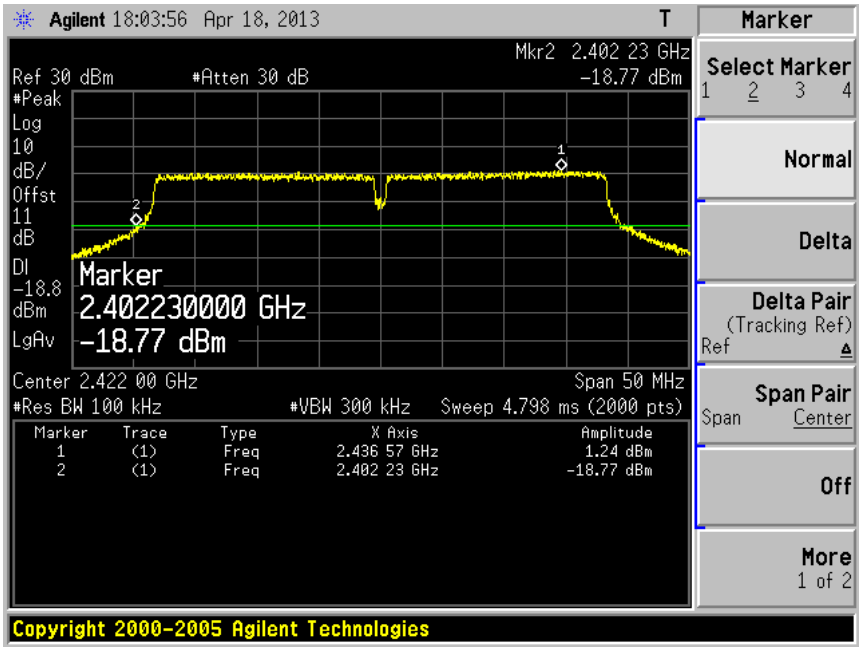



**Channel 165 (5825MHz)**

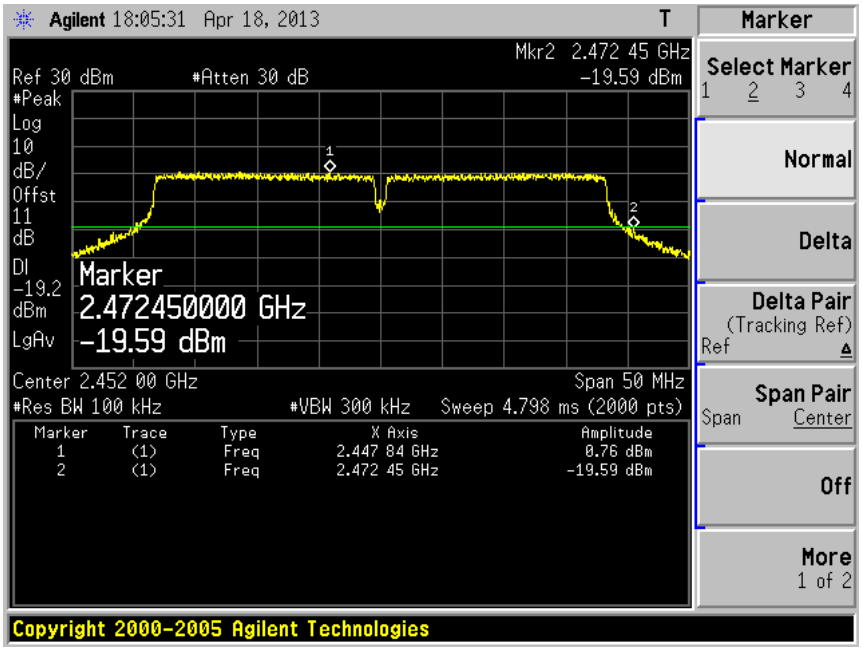


| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 2) |

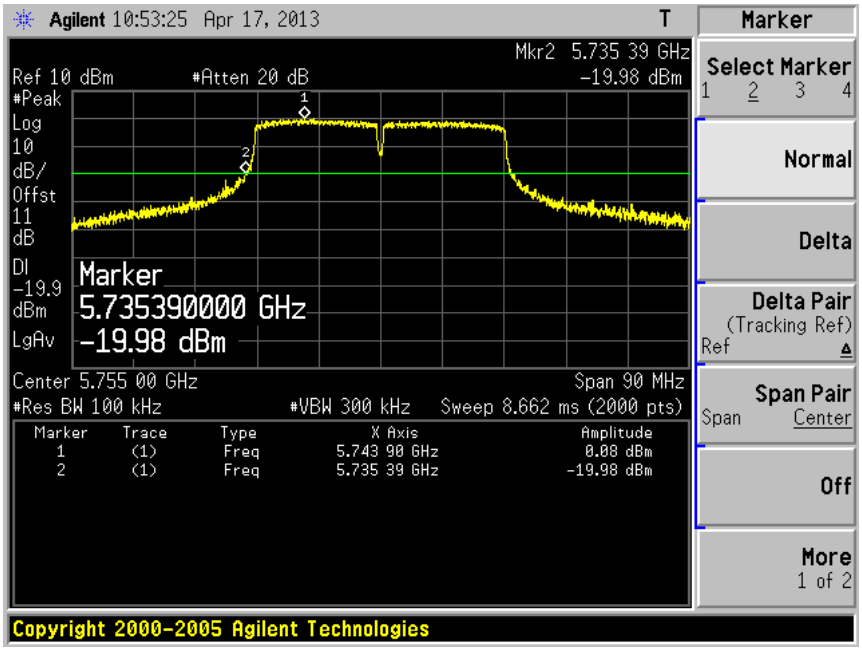
**Channel 03 (2422MHz)**



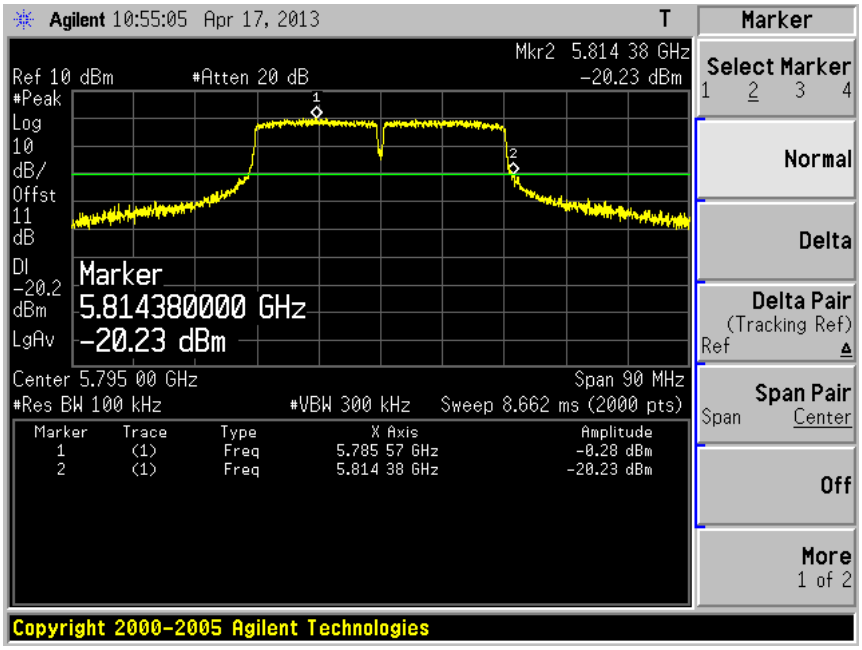

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**




**Channel 159 (5795MHz)**



# 8. Occupied Bandwidth

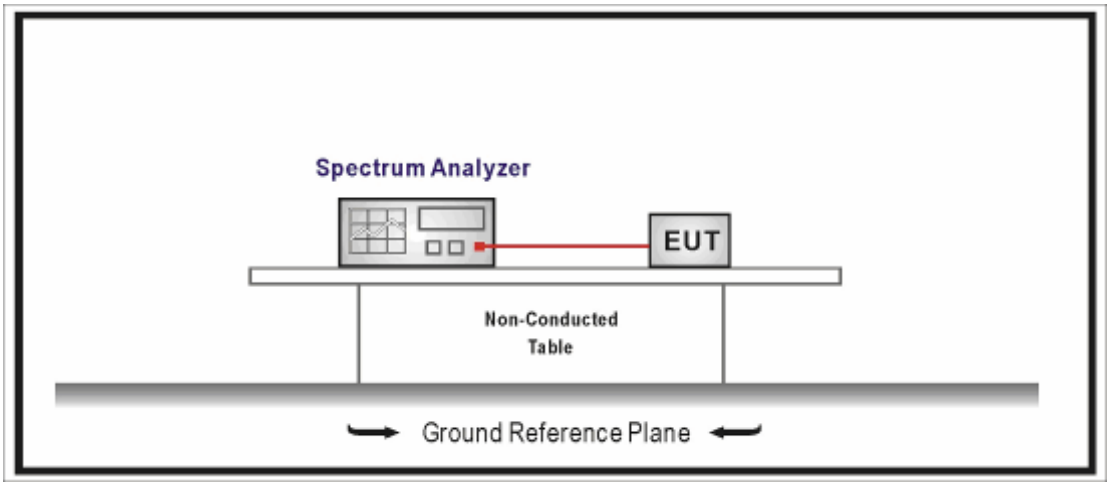
## 8.1. Test Equipment

Occupied Bandwidth / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2013.04.18 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR8-TH | 2013.05.07 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 8.2. Test Setup




## 8.3. Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

## 8.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Span greater than RBW.

## 8.5. Uncertainty

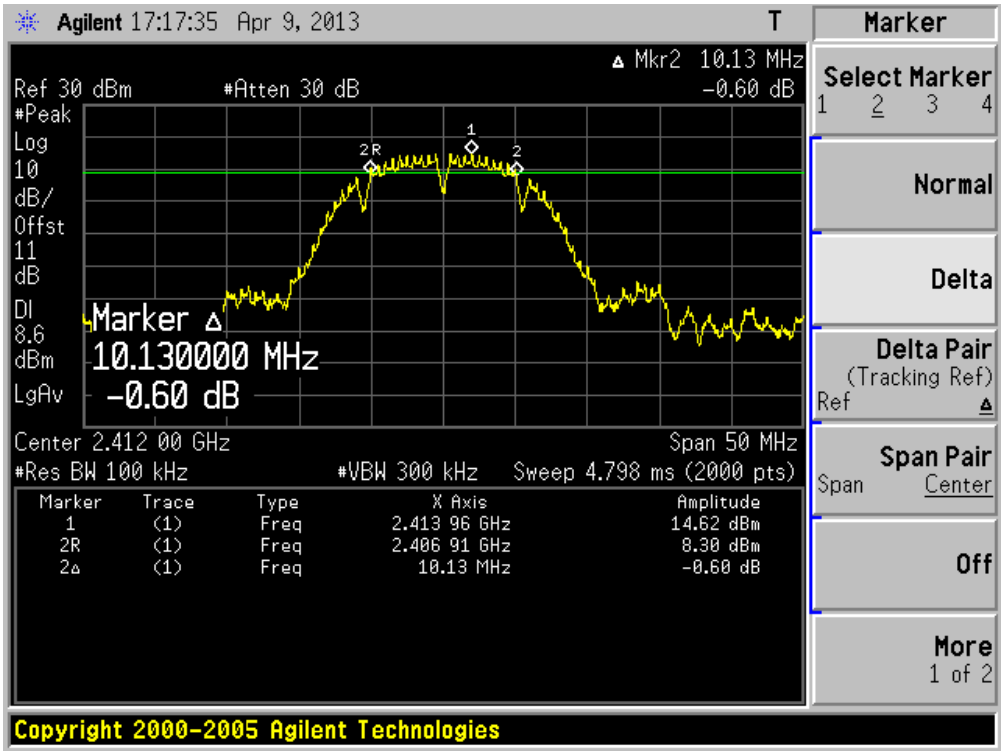
The measurement uncertainty is defined as ± 1 kHz

## 8.6. Test Result

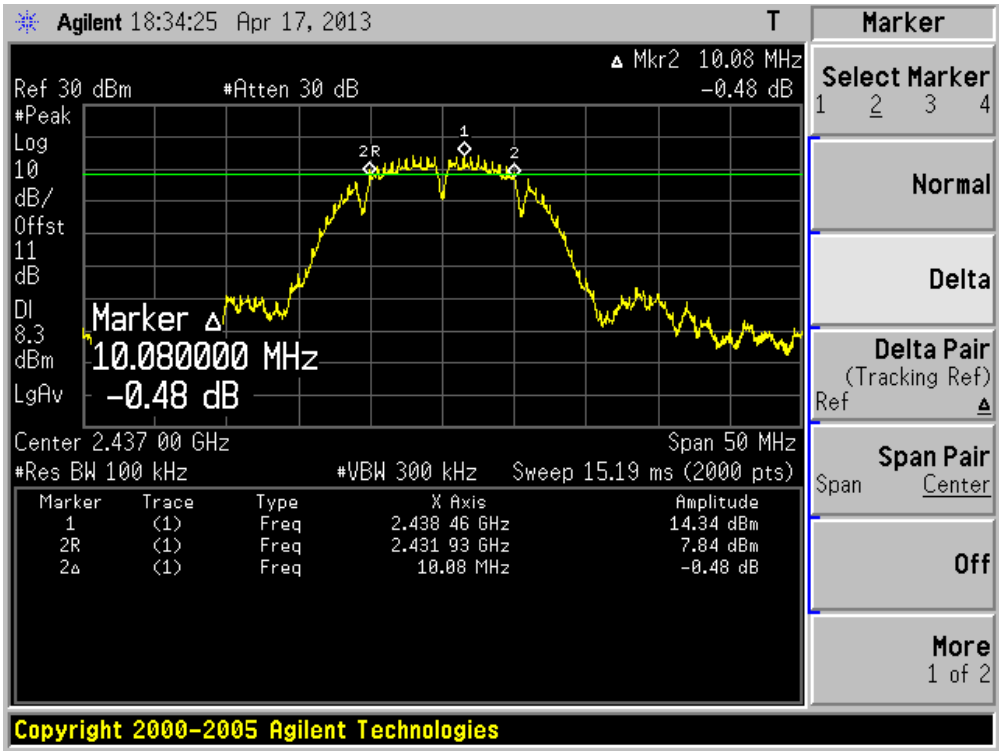
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 0) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 10130.0 | 500 | Pass |
| 06 | 2437 | 10080.0 | 500 | Pass |
| 11 | 2462 | 10130.0 | 500 | Pass |

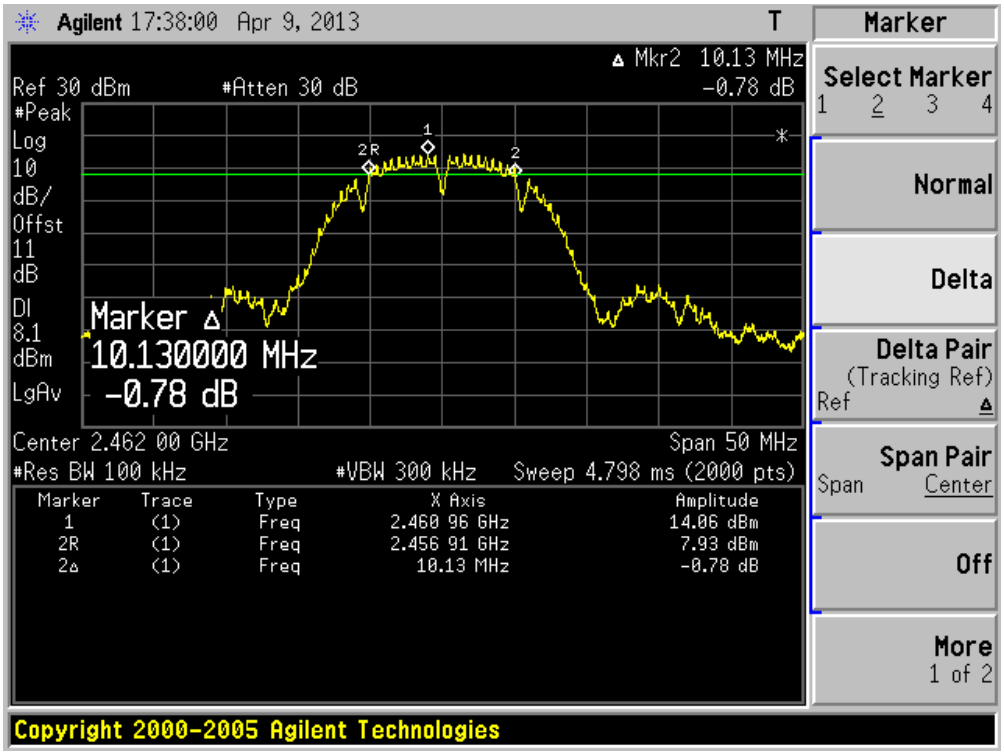
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



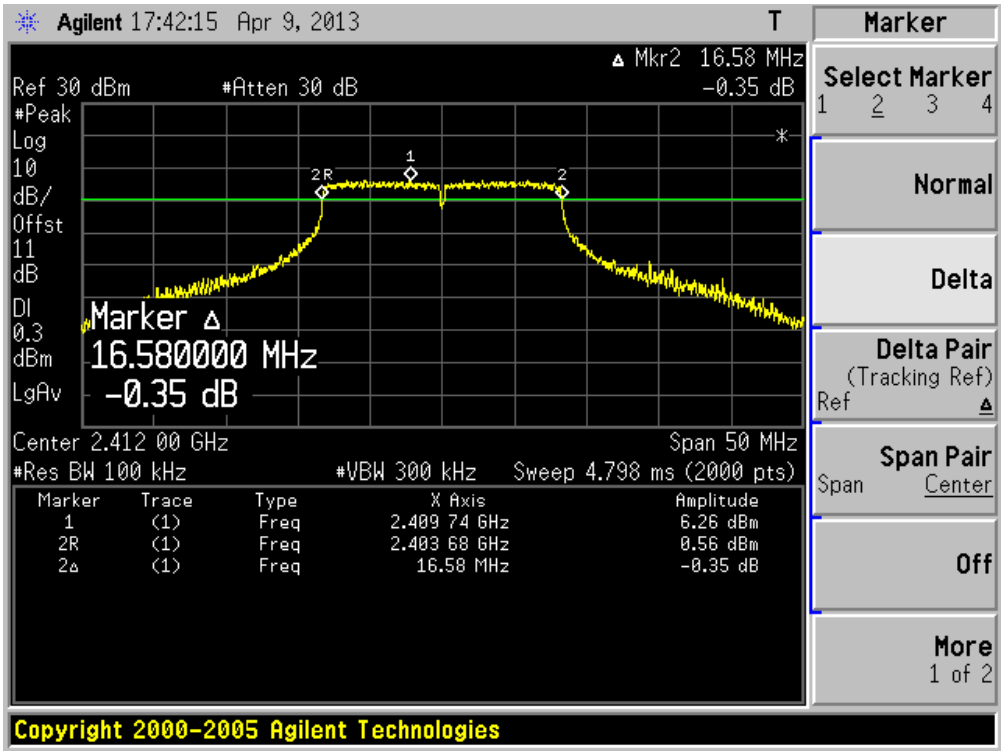

**Channel 11 (2462MHz)**



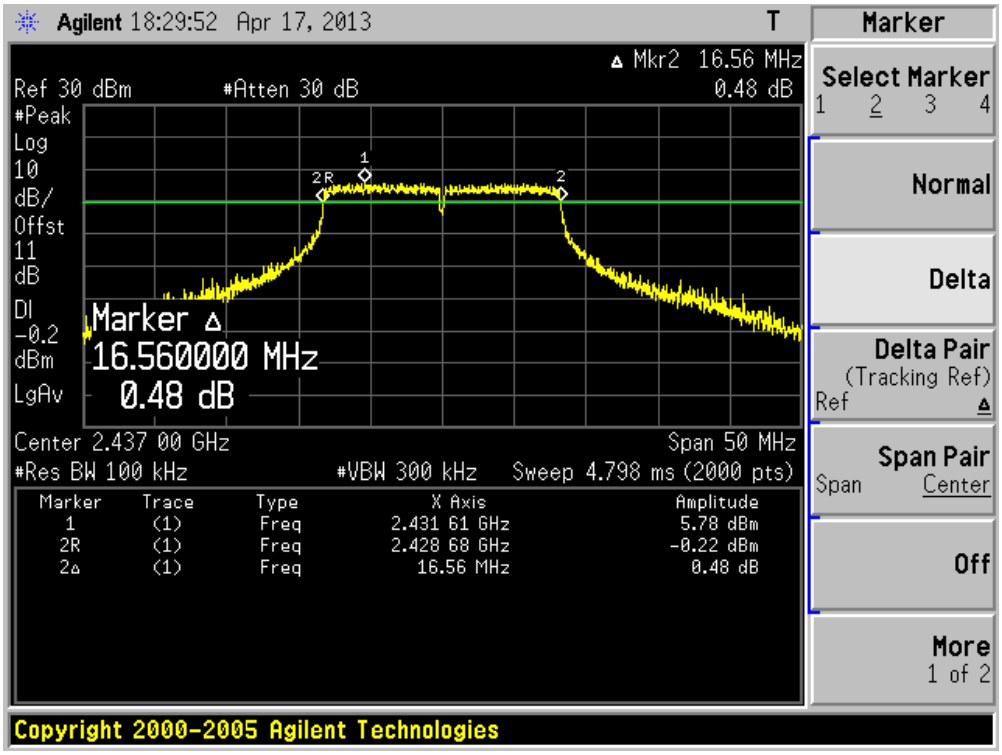
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 0) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 16580.0 | 500 | Pass |
| 06 | 2437 | 16560.0 | 500 | Pass |
| 11 | 2462 | 16610.0 | 500 | Pass |

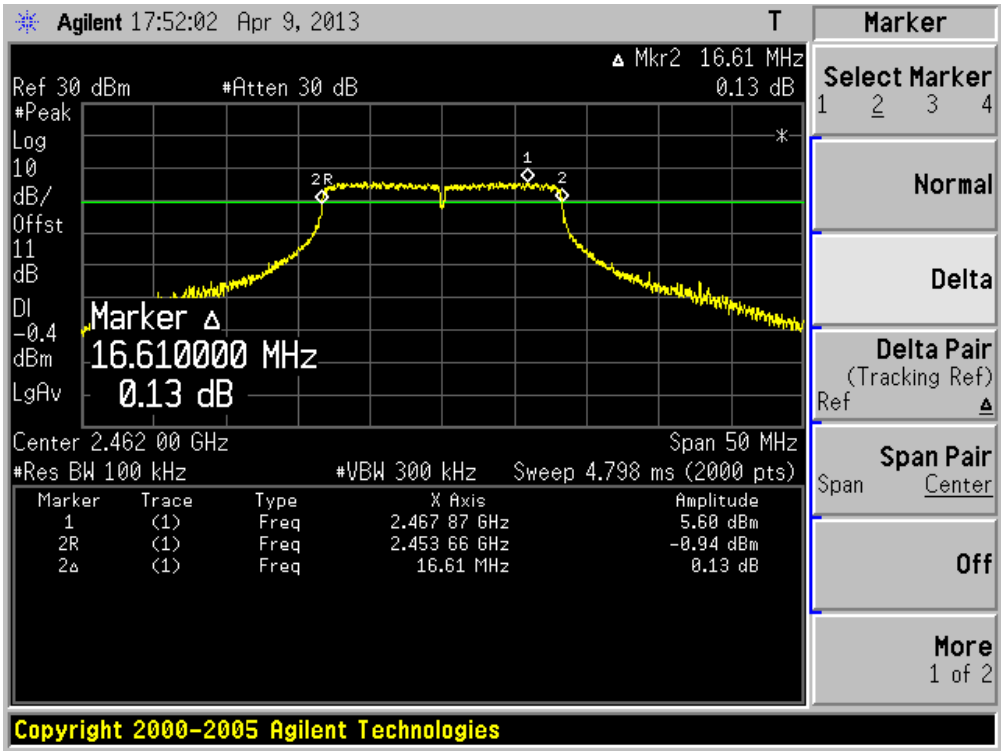
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



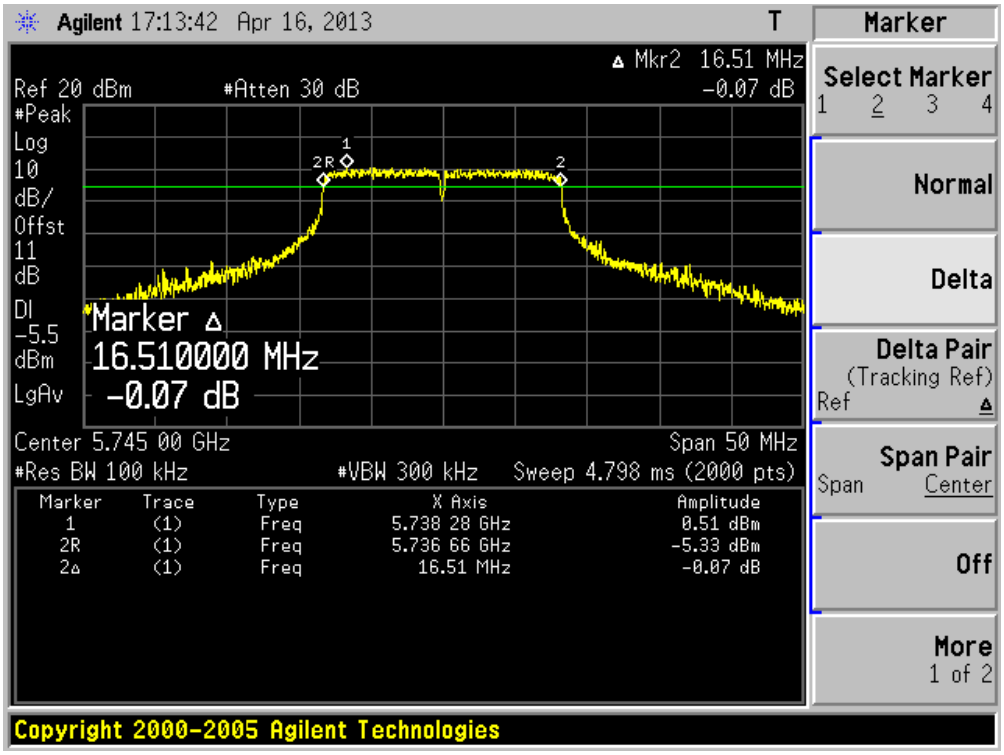

**Channel 11 (2462MHz)**



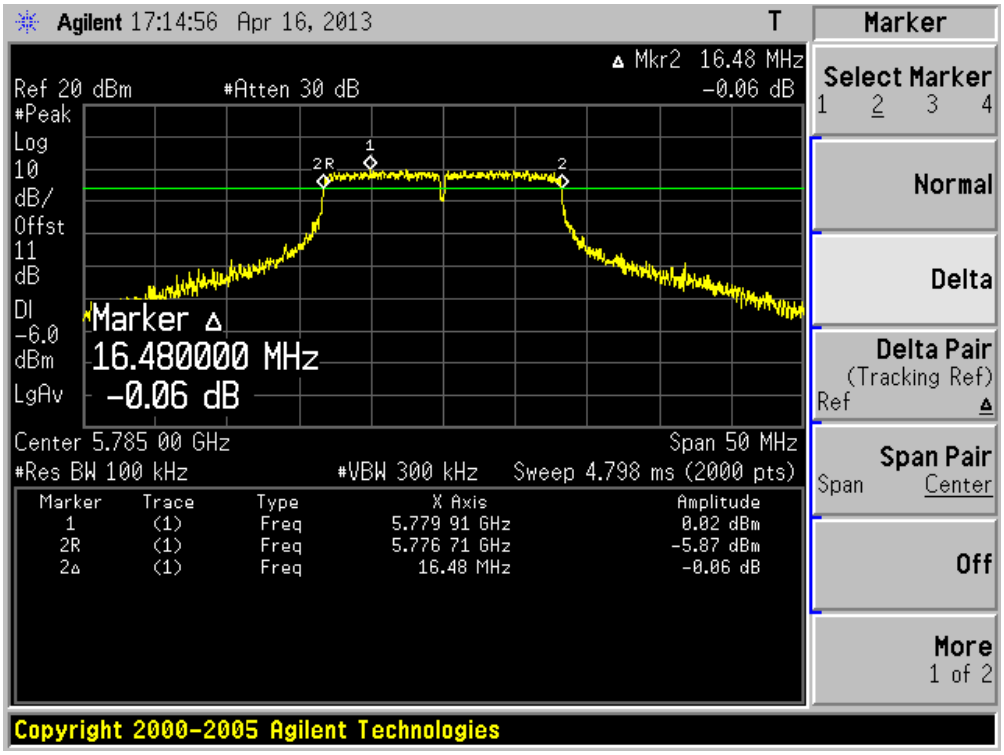
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 0) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 149 | 5745 | 16510.0 | 500 | Pass |
| 157 | 5785 | 16480.0 | 500 | Pass |
| 165 | 5825 | 16510.0 | 500 | Pass |

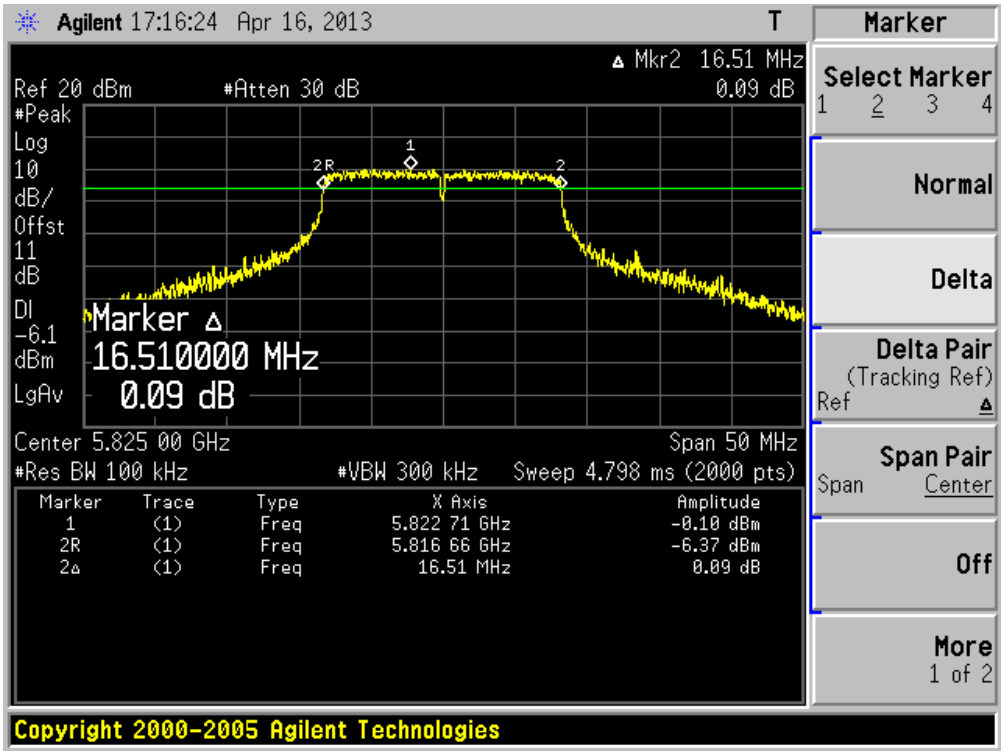
**Channel 149 (5745MHz)**



**Channel 157 (5785MHz)**



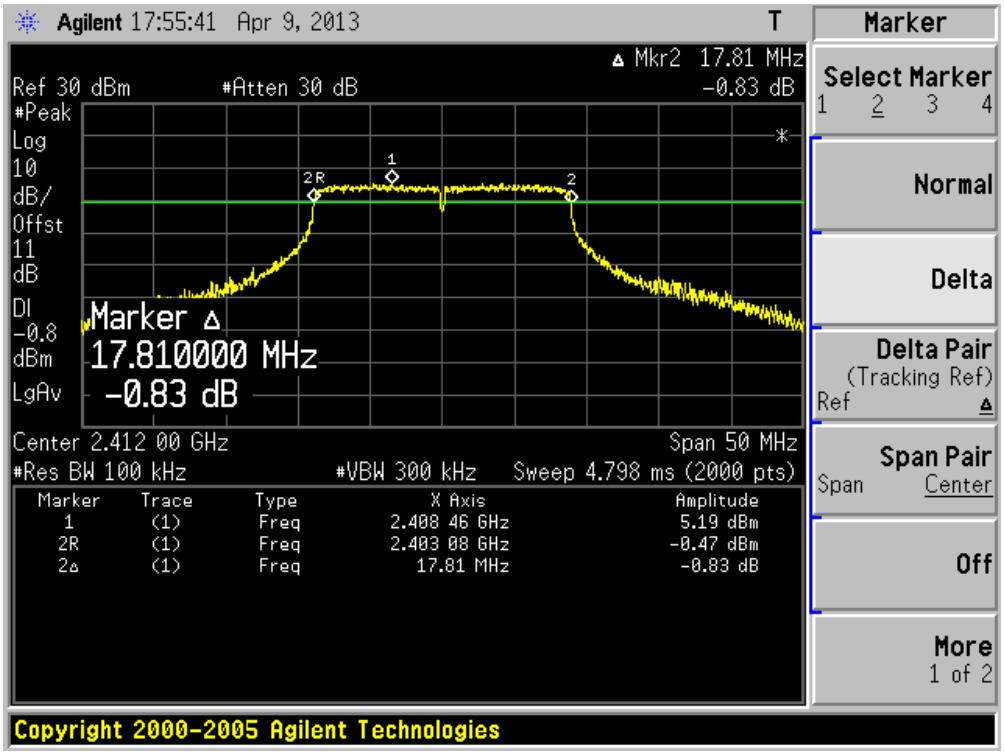

**Channel 165 (5825MHz)**



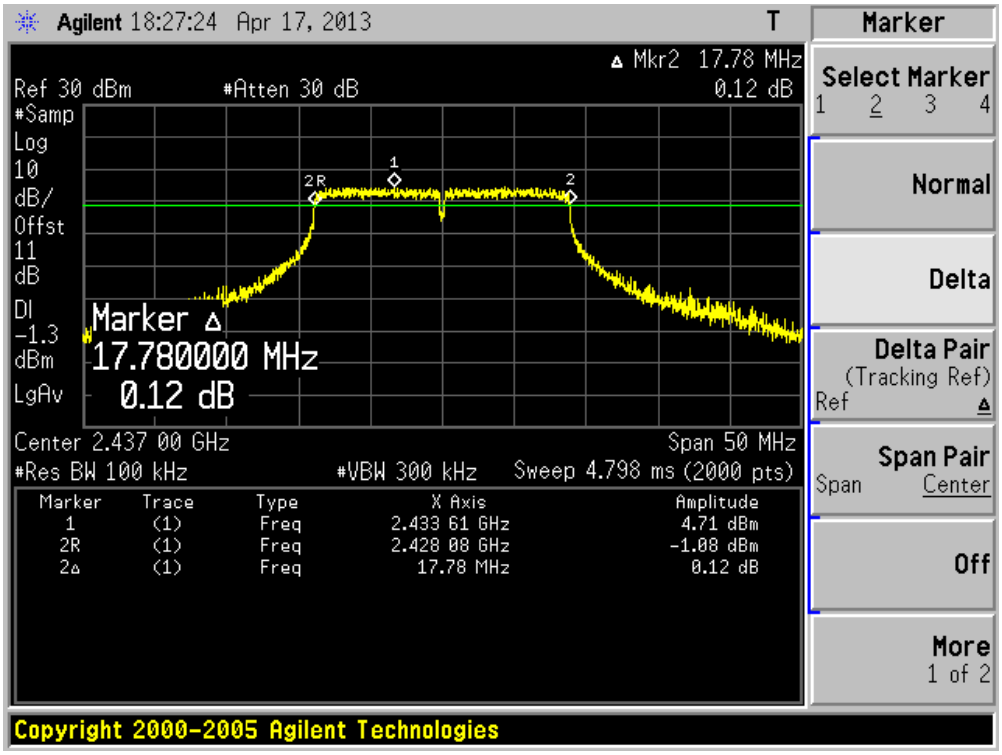
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 0) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 17810.0 | 500 | Pass |
| 06 | 2437 | 17780.0 | 500 | Pass |
| 11 | 2462 | 17810.0 | 500 | Pass |
| 149 | 5745 | 17680.0 | 500 | Pass |
| 157 | 5785 | 17680.0 | 500 | Pass |
| 165 | 5825 | 17730.0 | 500 | Pass |

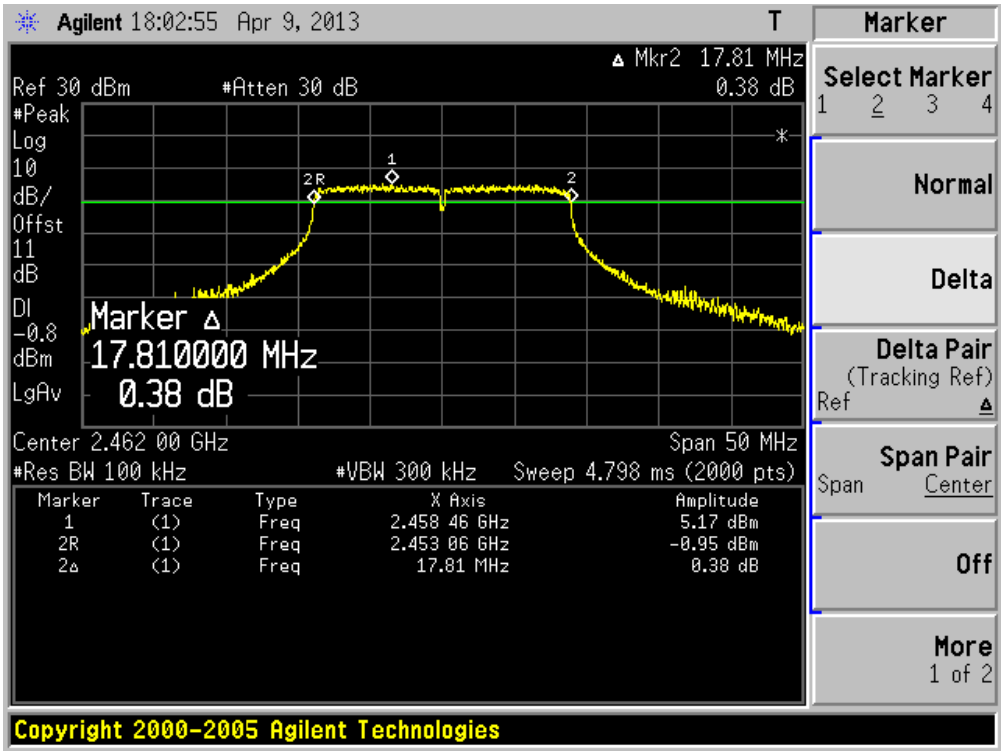
**Channel 01 (2412MHz)**



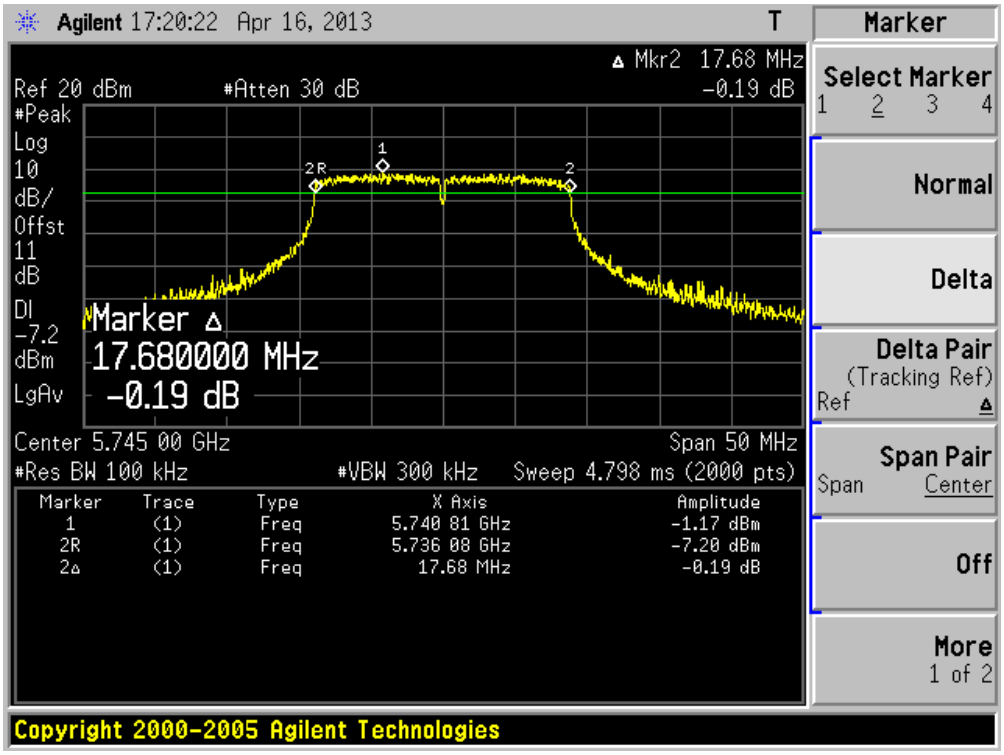
**Channel 06 (2437MHz)**



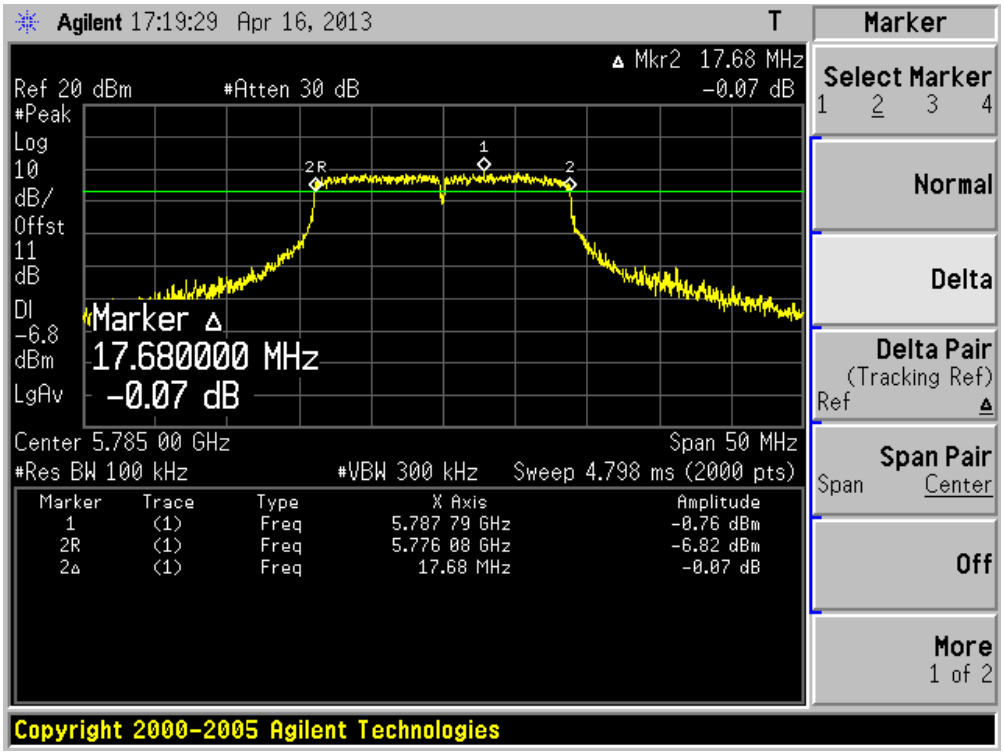

**Channel 11 (2462MHz)**



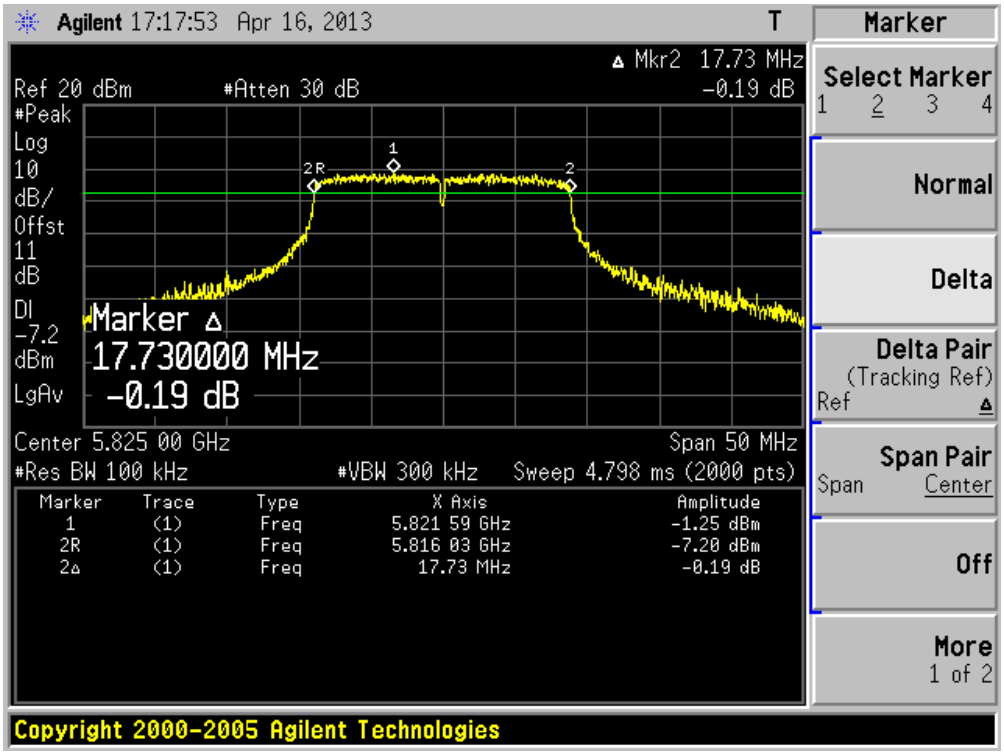
**Channel 149 (5745MHz)**




**Channel 157 (5785MHz)**



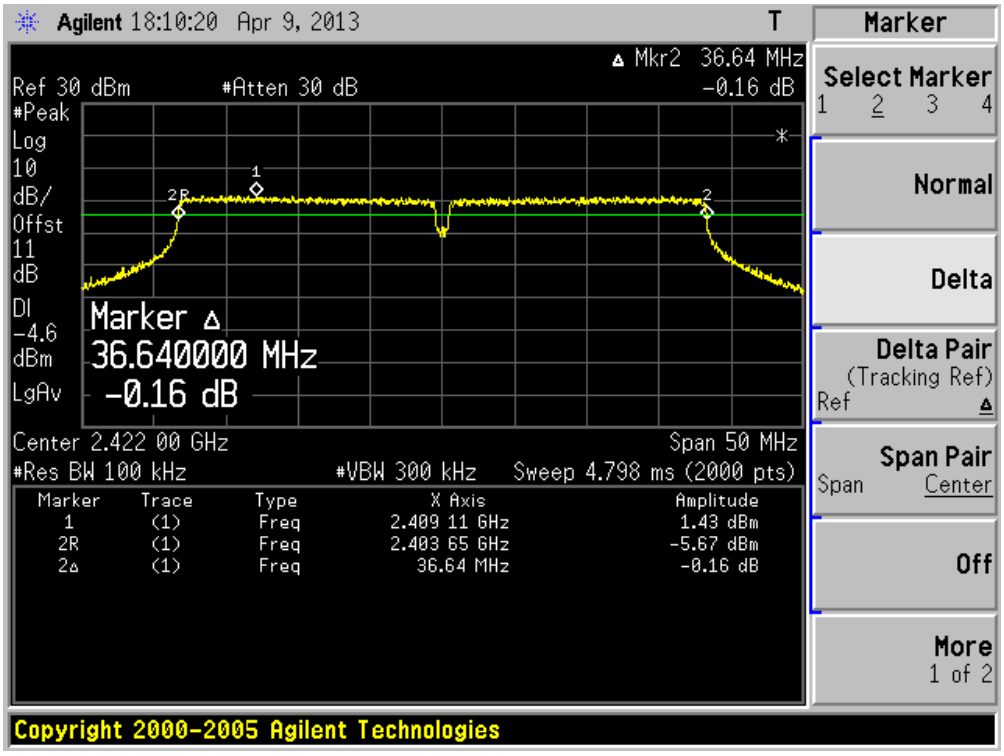
**Channel 165 (5825MHz)**



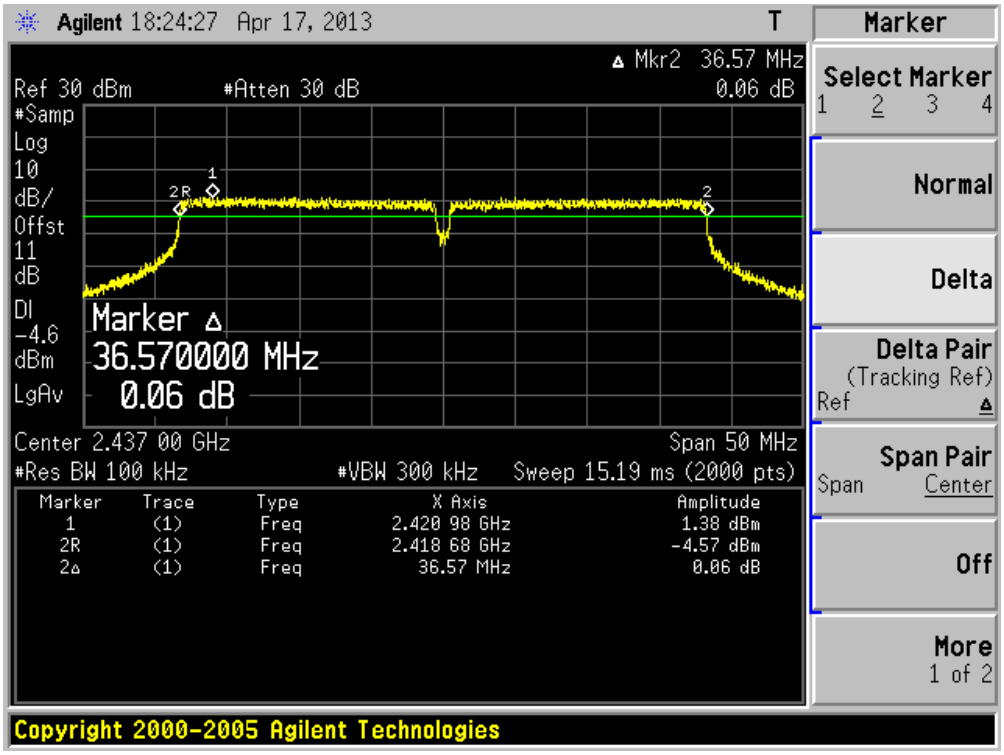
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 0) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 03 | 2422 | 36640.0 | 500 | Pass |
| 06 | 2437 | 36570.0 | 500 | Pass |
| 09 | 2452 | 36620.0 | 500 | Pass |
| 151 | 5755 | 36470.0 | 500 | Pass |
| 159 | 5795 | 36510.0 | 500 | Pass |

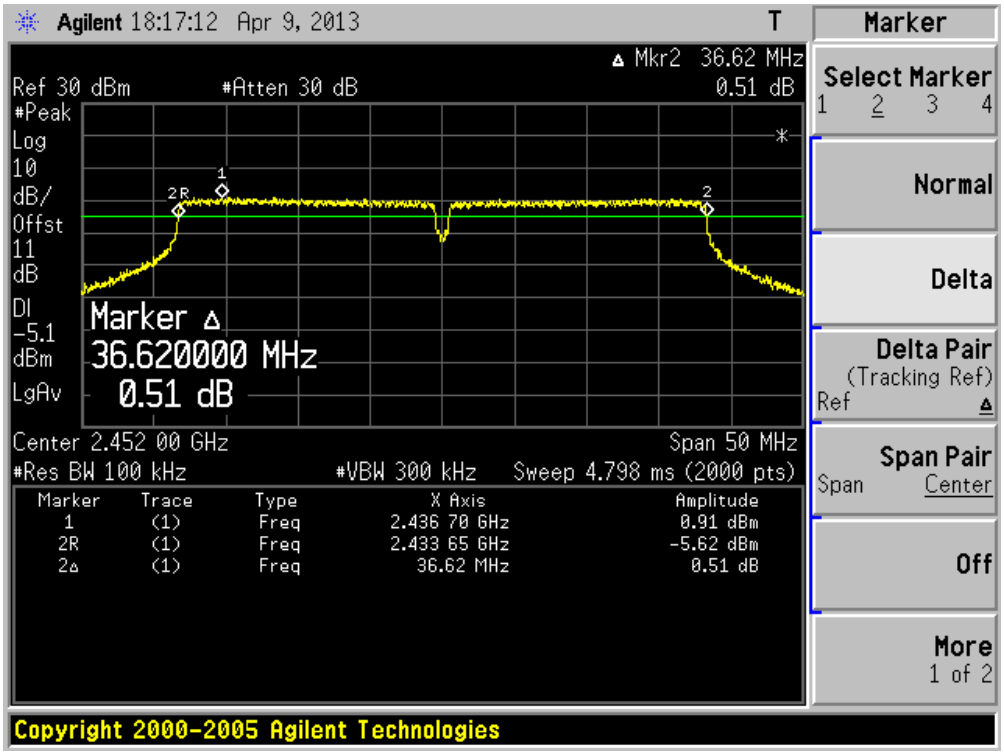
**Channel 03 (2422MHz)**



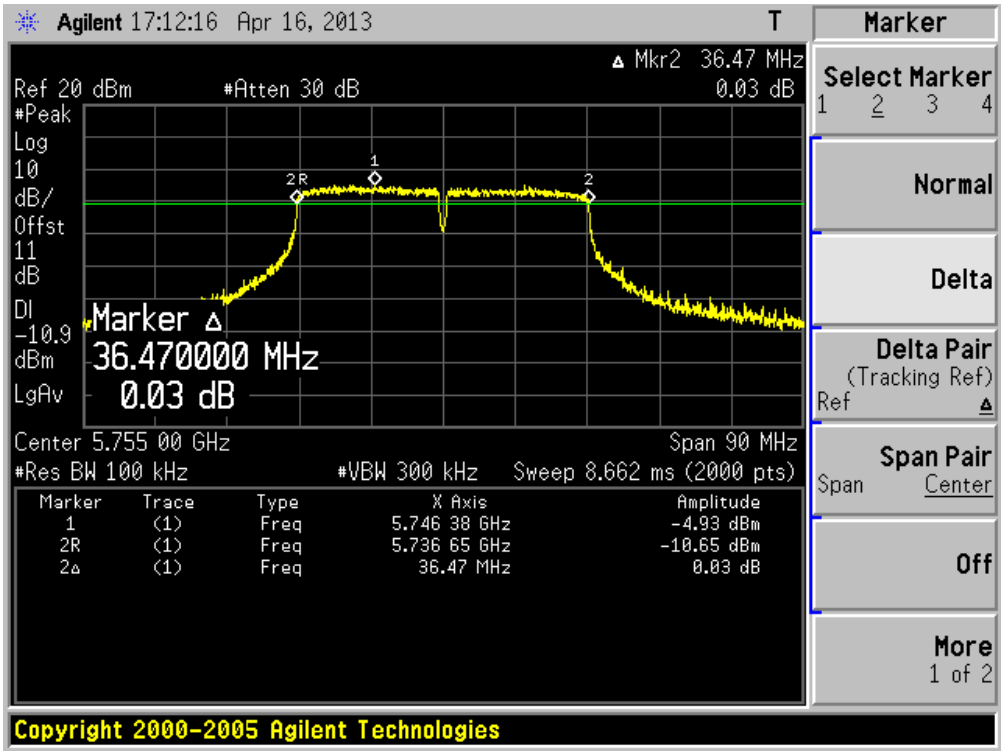
**Channel 06 (2437MHz)**



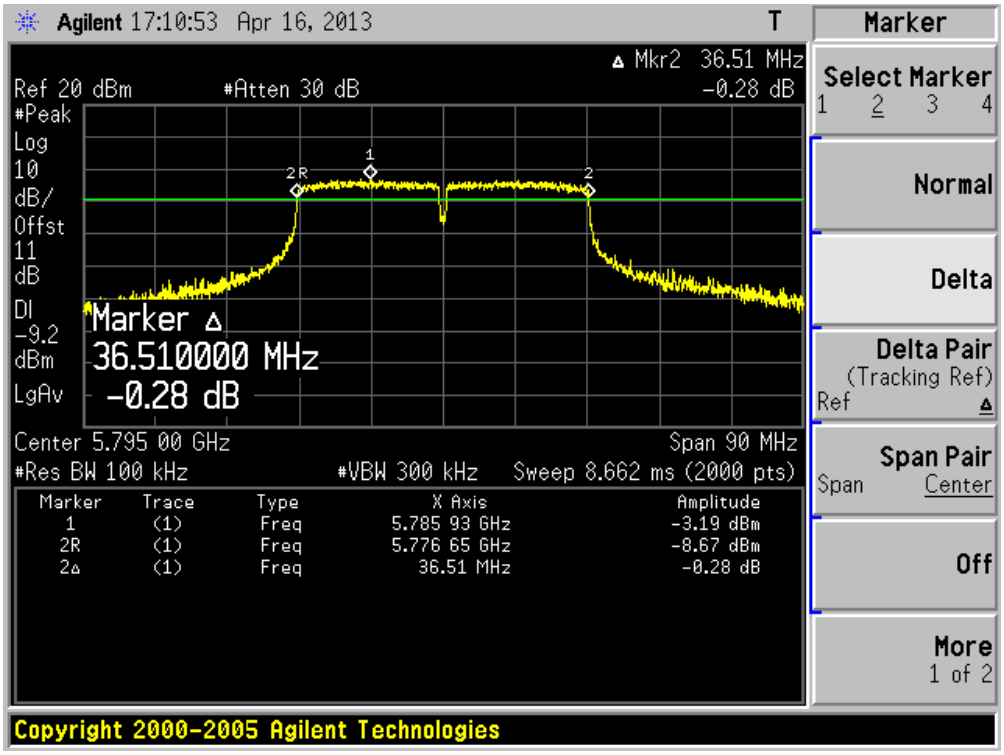

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**



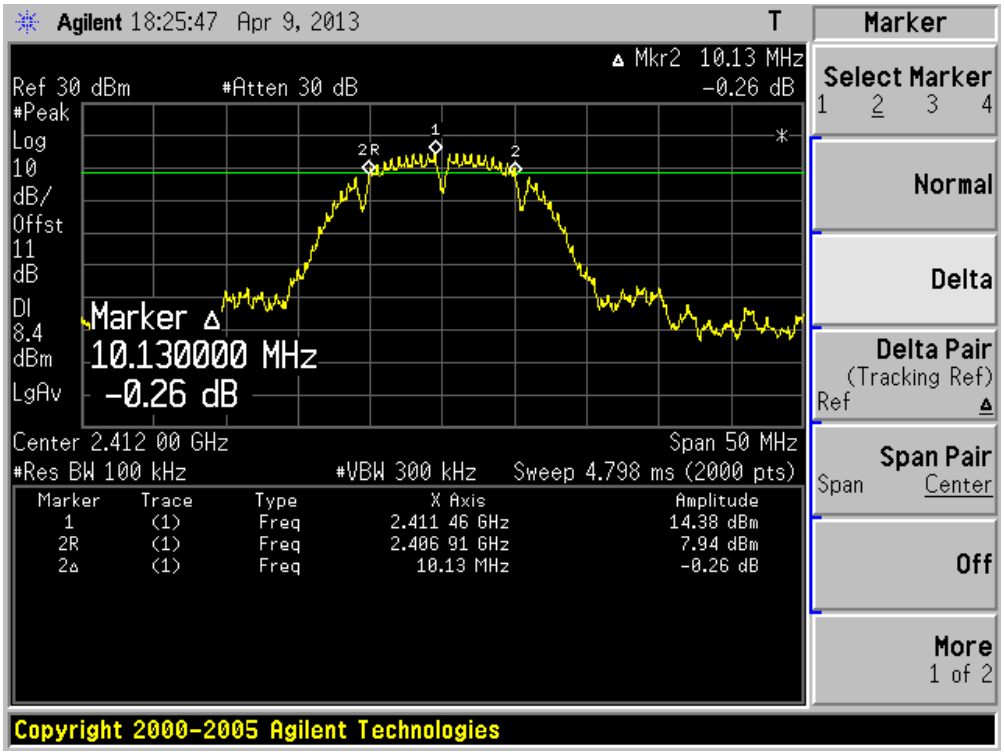

**Channel 159 (5795MHz)**



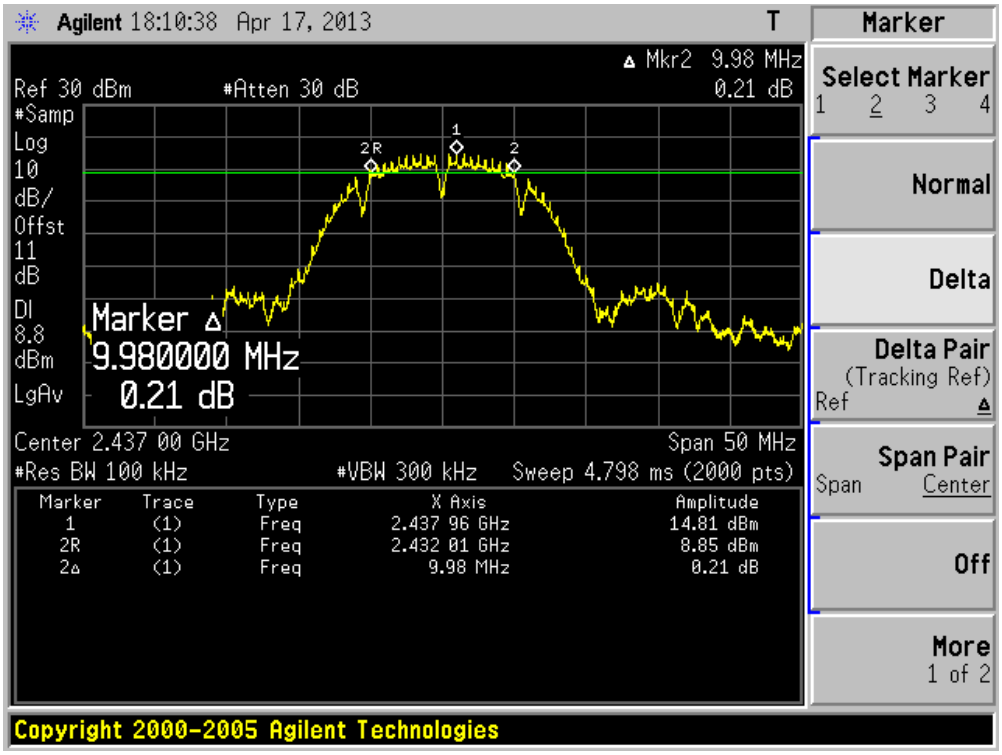
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 1) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 10130.0 | 500 | Pass |
| 06 | 2437 | 9980.0 | 500 | Pass |
| 11 | 2462 | 10130.0 | 500 | Pass |

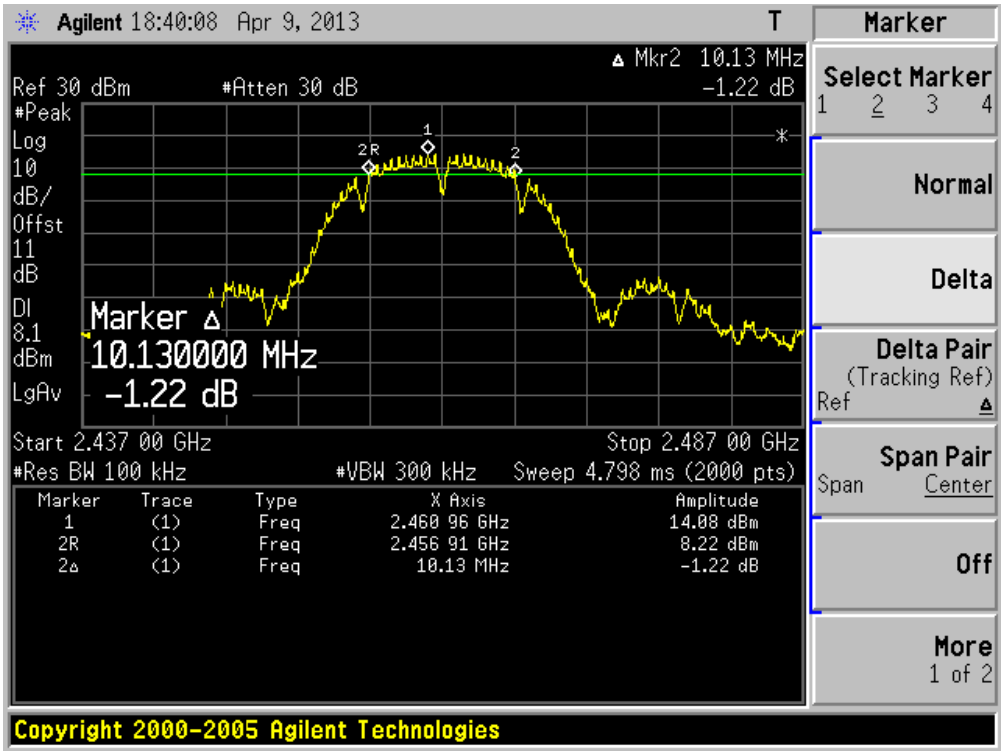
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



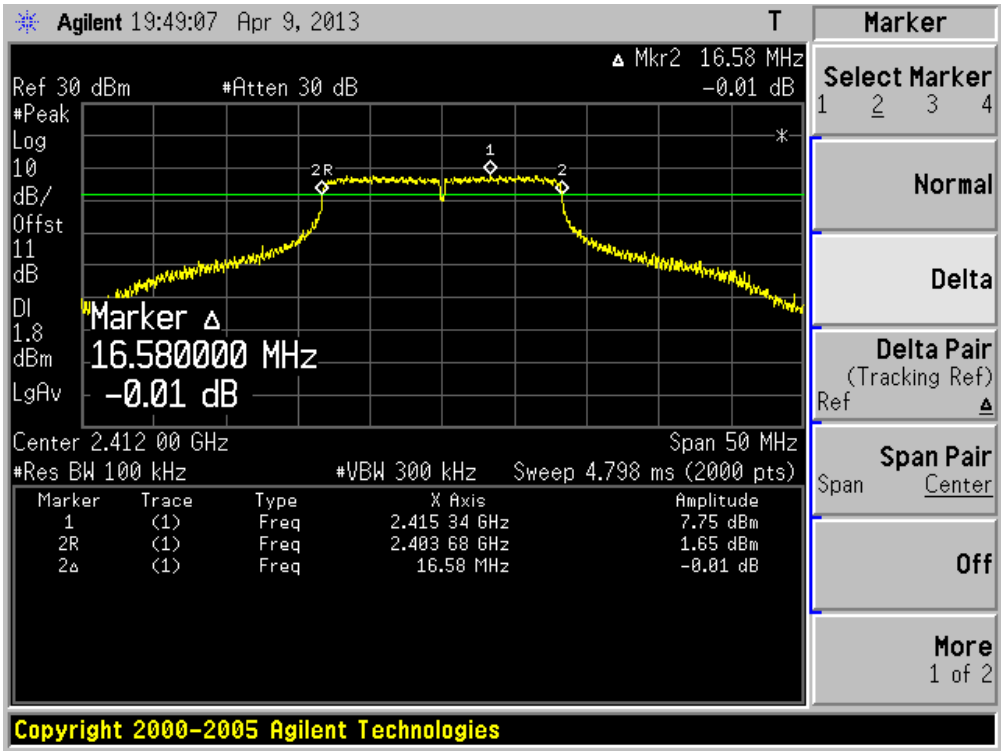

**Channel 11 (2462MHz)**



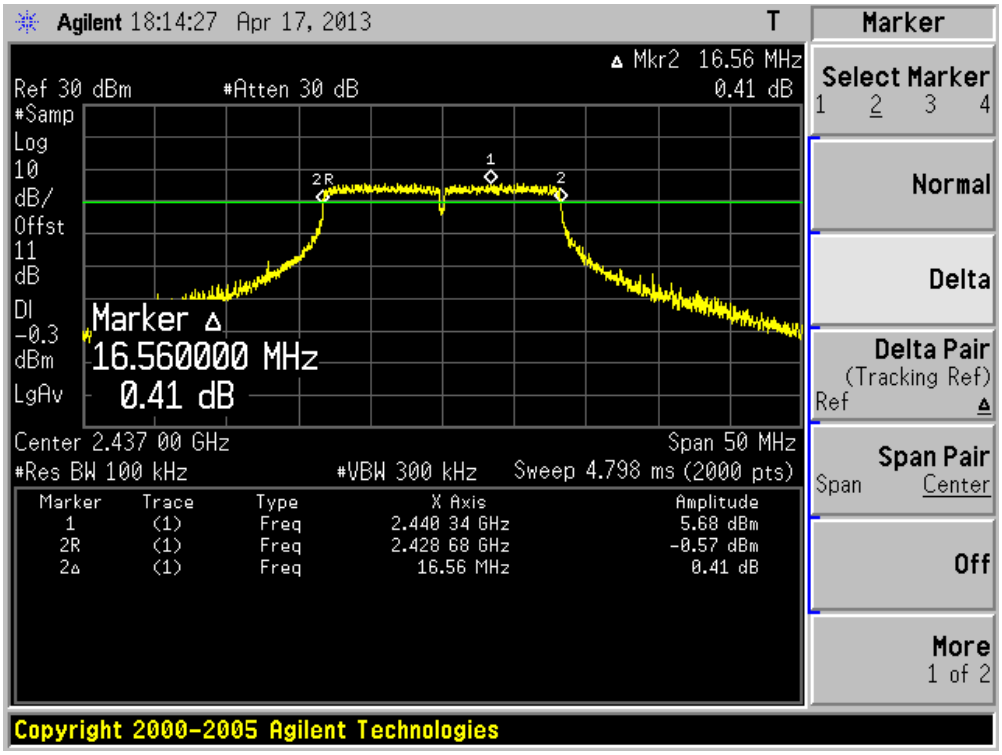
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 1) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 16580.0 | 500 | Pass |
| 06 | 2437 | 16560.0 | 500 | Pass |
| 11 | 2462 | 16560.0 | 500 | Pass |

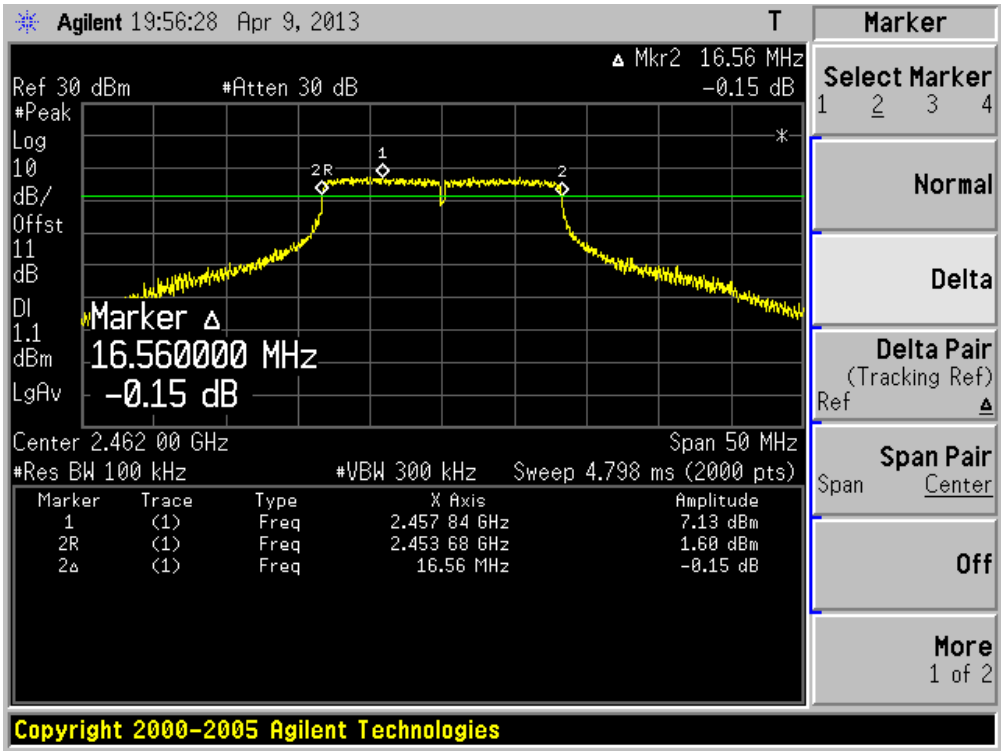
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



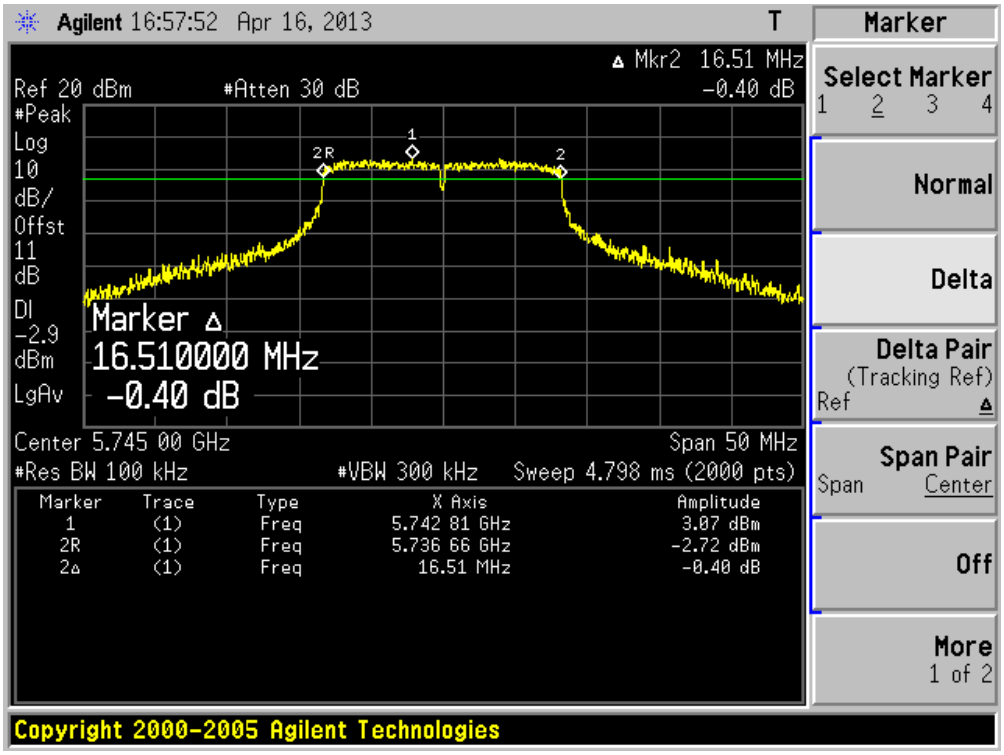

**Channel 11 (2462MHz)**



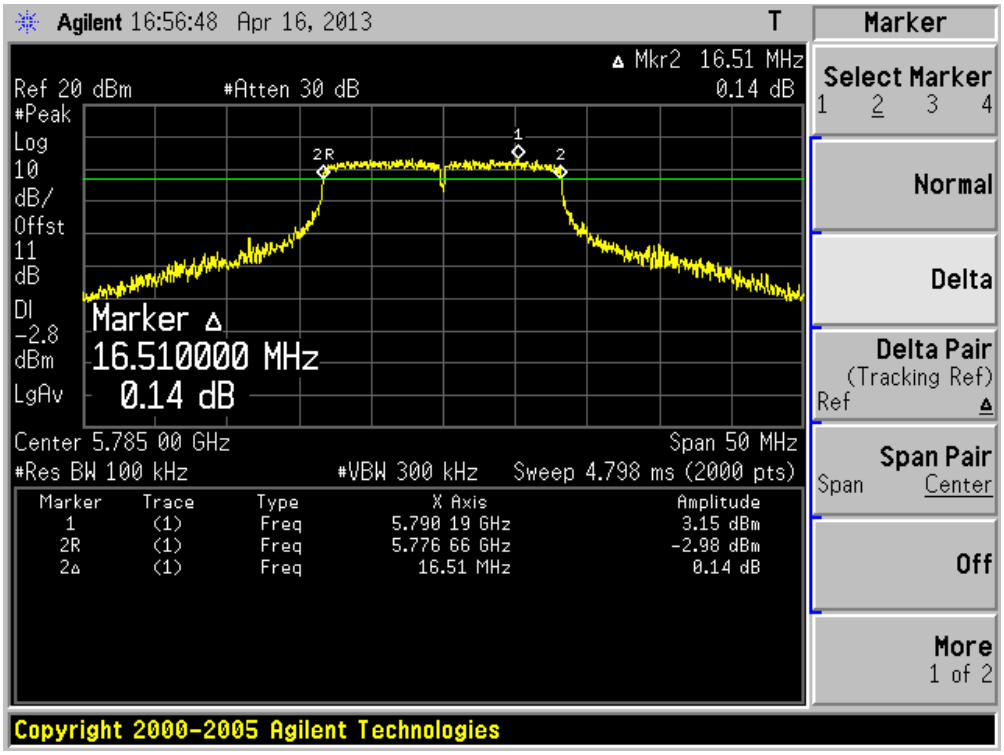
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 1) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 149 | 5745 | 16510.0 | 500 | Pass |
| 157 | 5785 | 16510.0 | 500 | Pass |
| 165 | 5825 | 16530.0 | 500 | Pass |

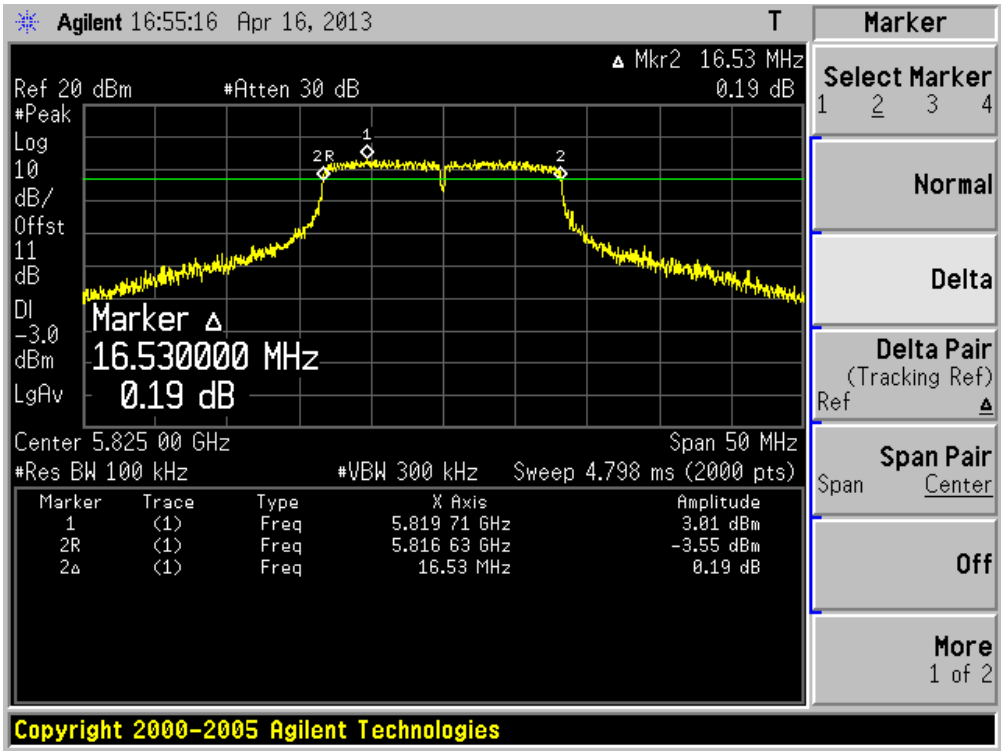
**Channel 149 (5745MHz)**



**Channel 157 (5785MHz)**



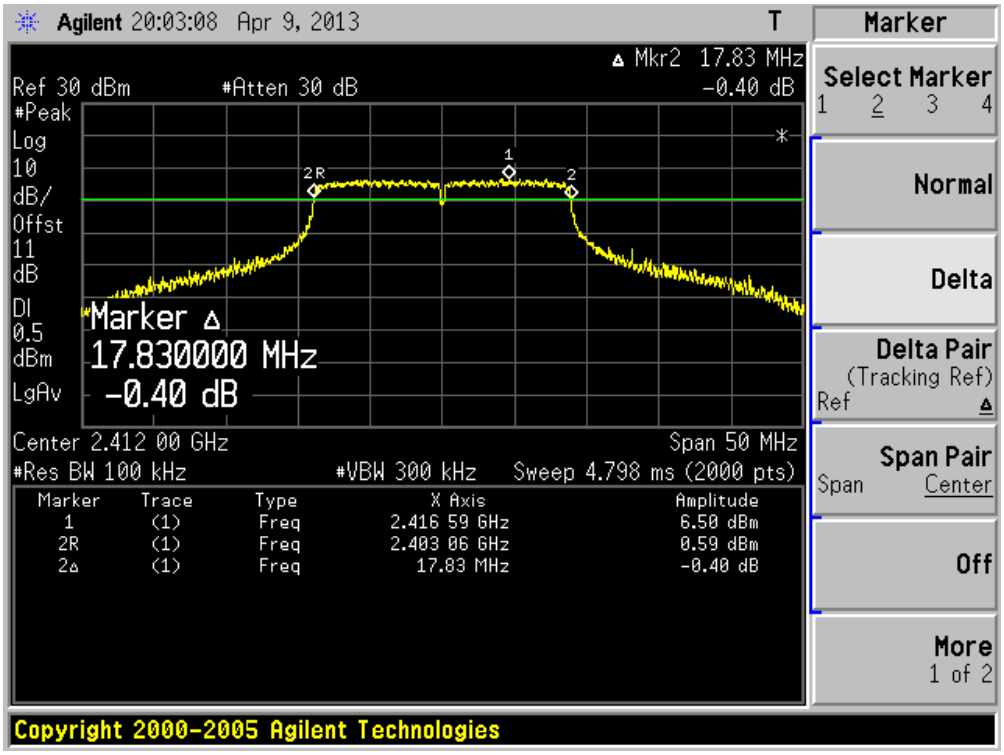

**Channel 165 (5825MHz)**



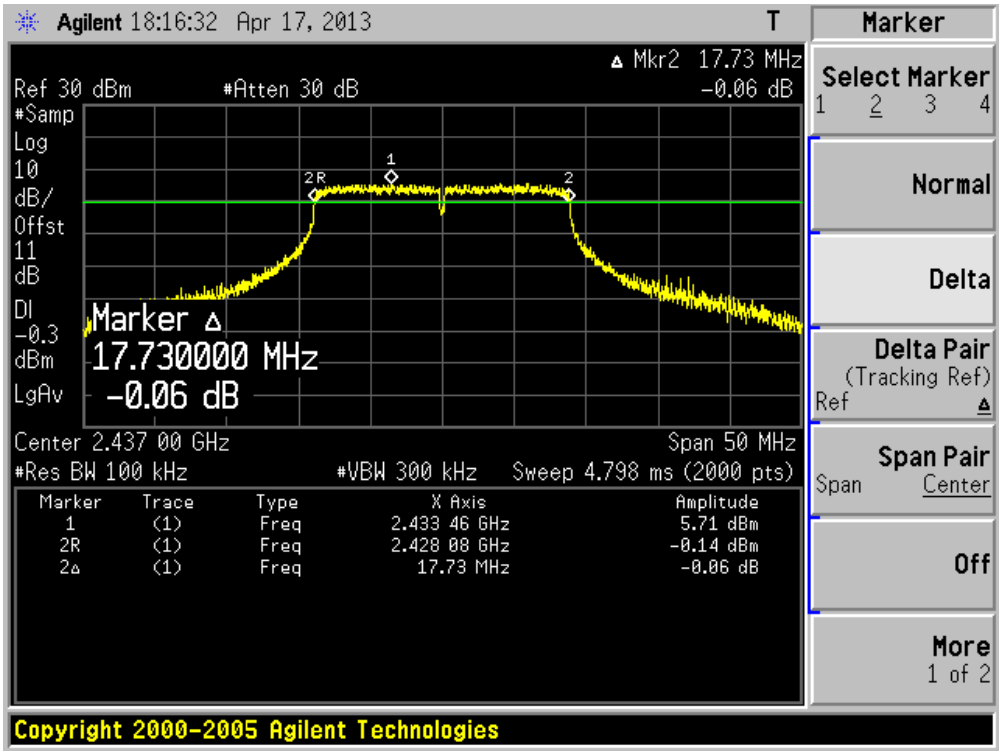
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 1) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 17830.0 | 500 | Pass |
| 06 | 2437 | 17730.0 | 500 | Pass |
| 11 | 2462 | 17830.0 | 500 | Pass |
| 149 | 5745 | 17710.0 | 500 | Pass |
| 157 | 5785 | 17730.0 | 500 | Pass |
| 165 | 5825 | 17680.0 | 500 | Pass |

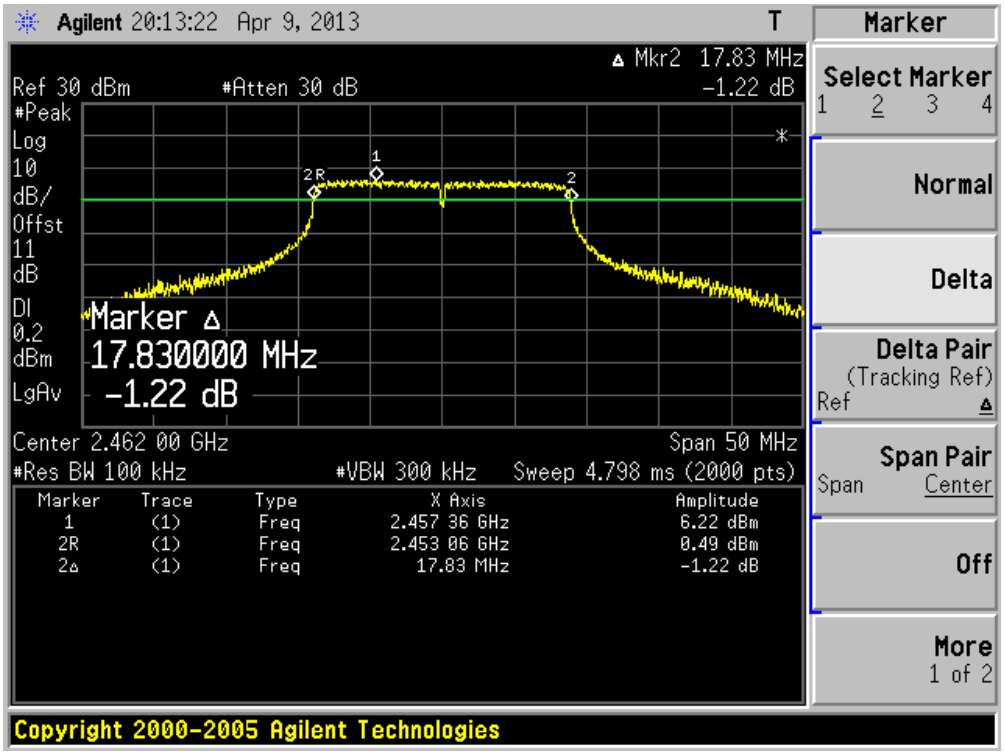
**Channel 01 (2412MHz)**



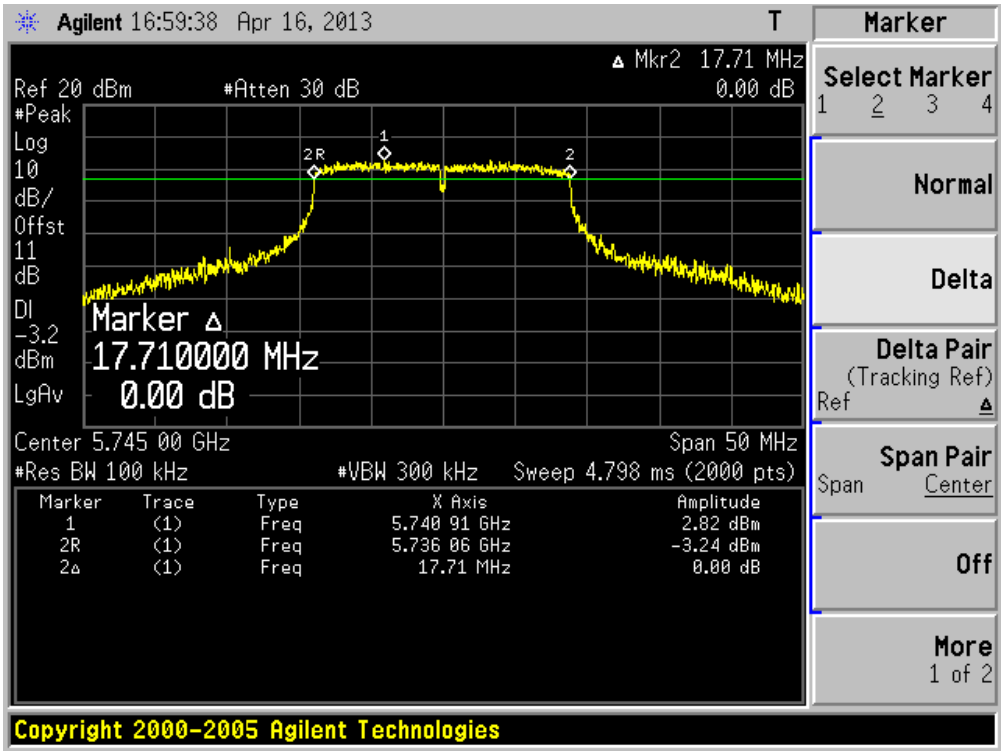
**Channel 06 (2437MHz)**



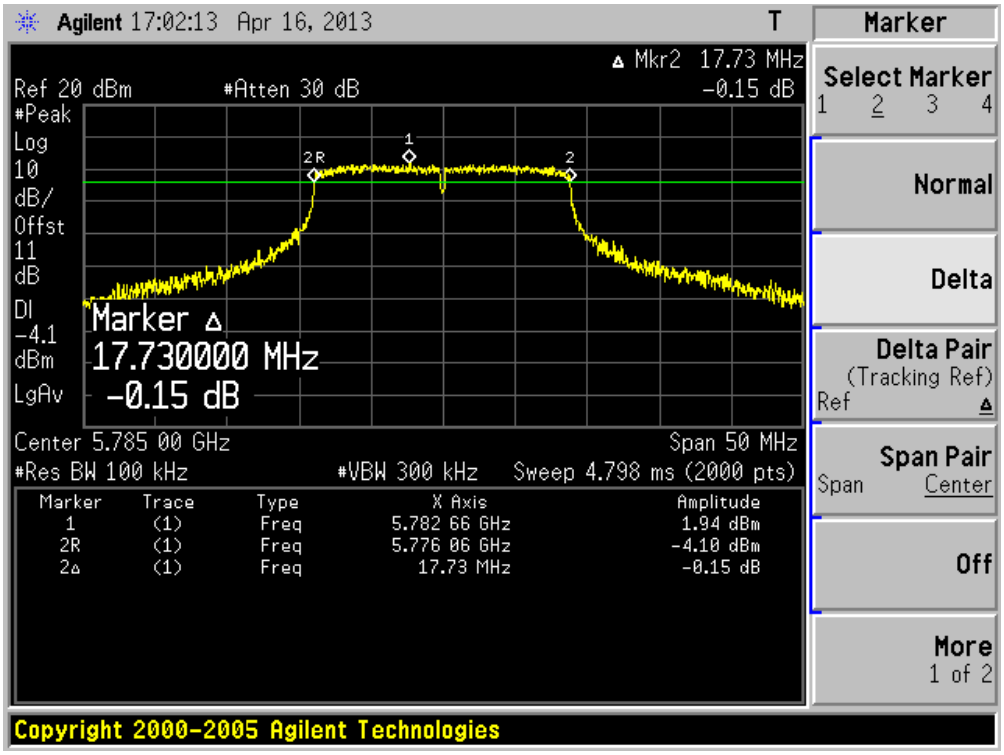

**Channel 11 (2462MHz)**



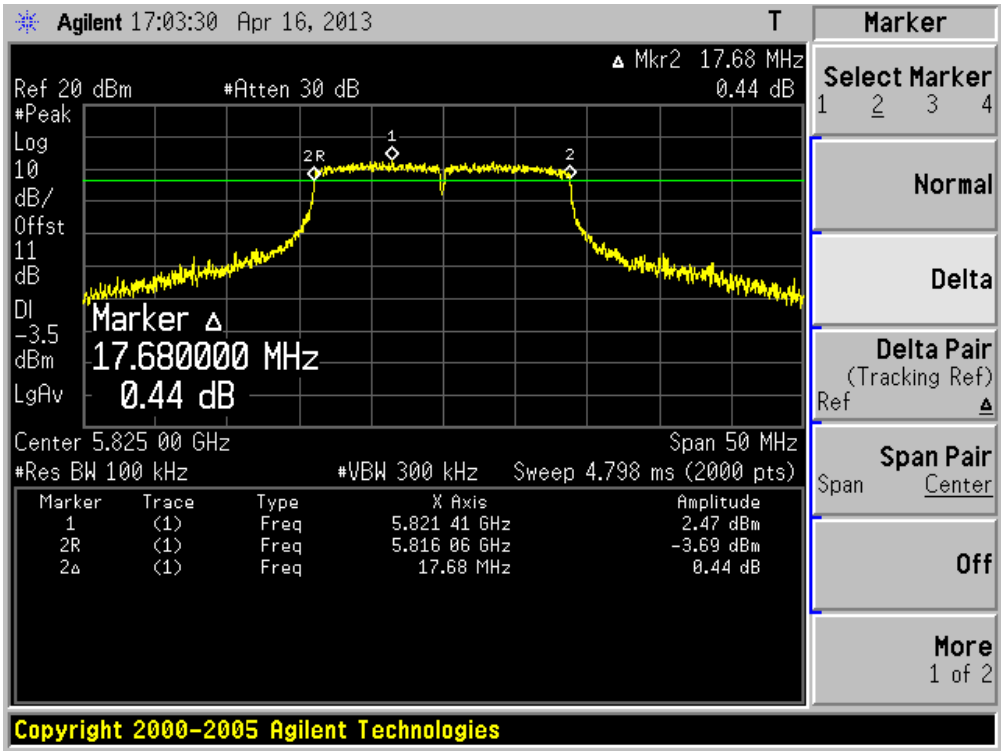
**Channel 149 (5745MHz)**




**Channel 157 (5785MHz)**



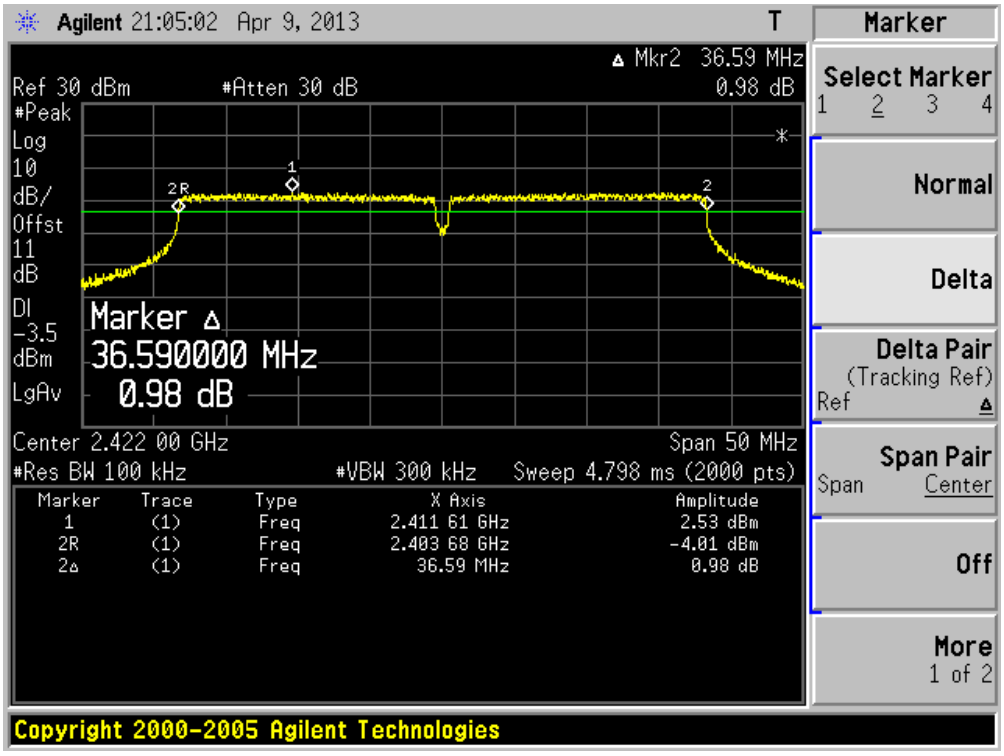
**Channel 165 (5825MHz)**



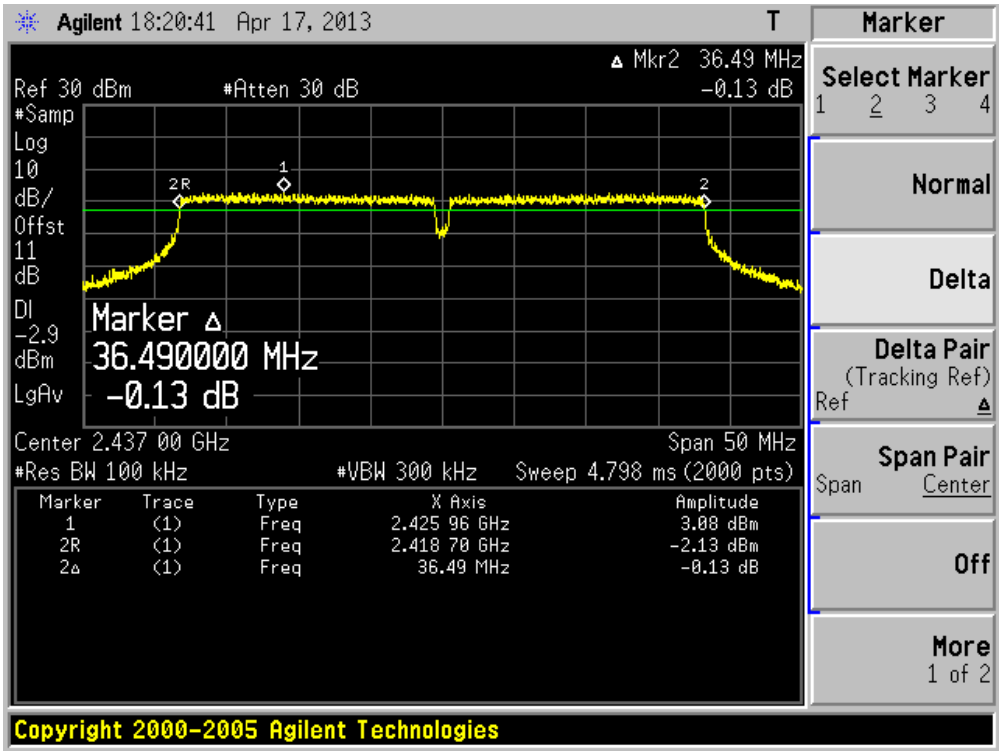
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 1) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 03 | 2422 | 36590.0 | 500 | Pass |
| 06 | 2437 | 36490.0 | 500 | Pass |
| 09 | 2452 | 36590.0 | 500 | Pass |
| 151 | 5755 | 36330.0 | 500 | Pass |
| 159 | 5795 | 36240.0 | 500 | Pass |

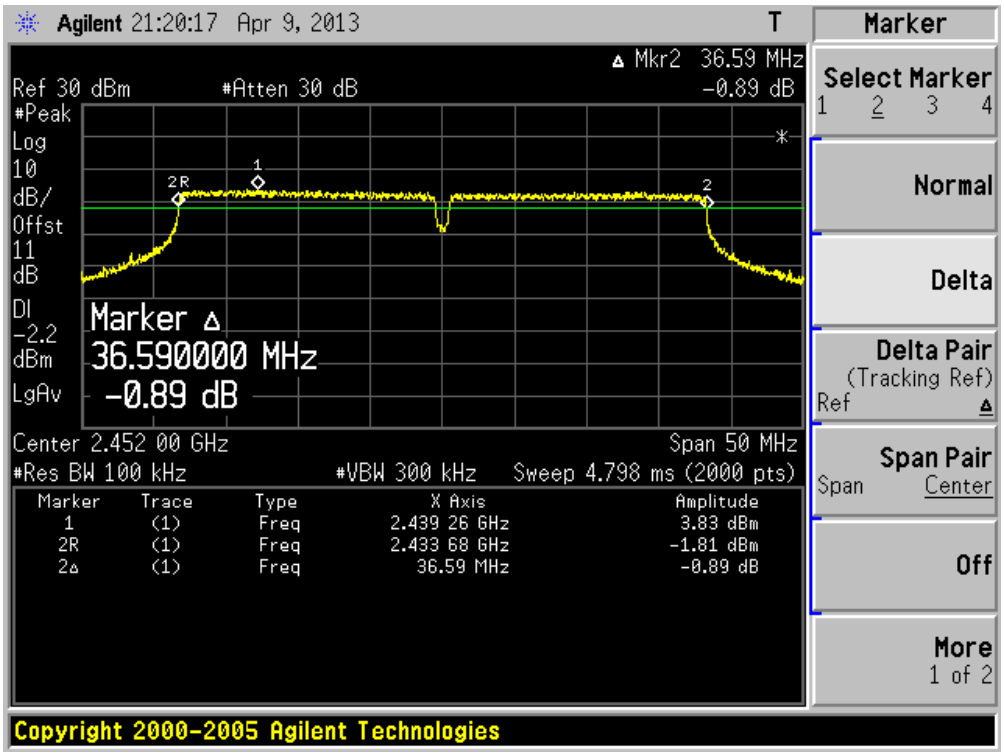
**Channel 03 (2422MHz)**



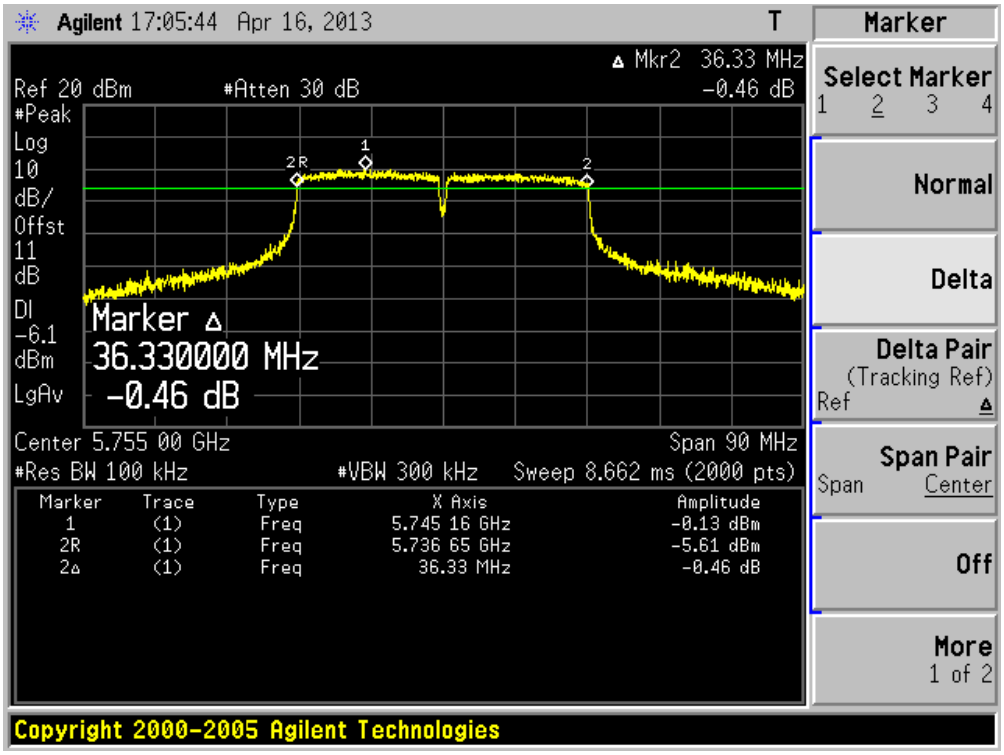
**Channel 06 (2437MHz)**



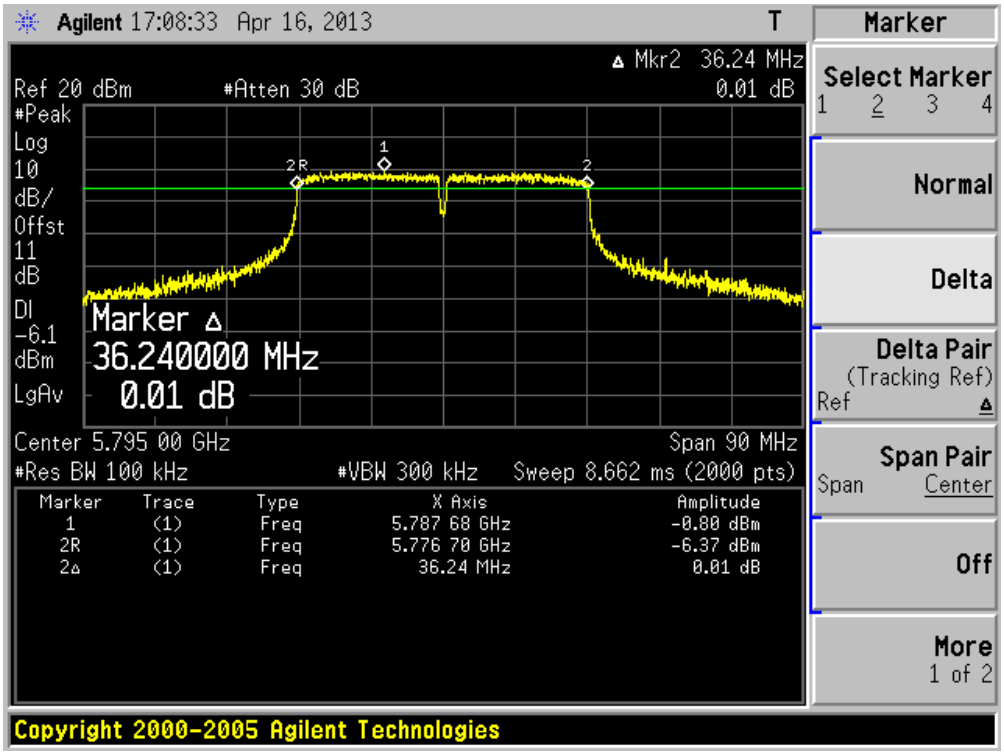

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**



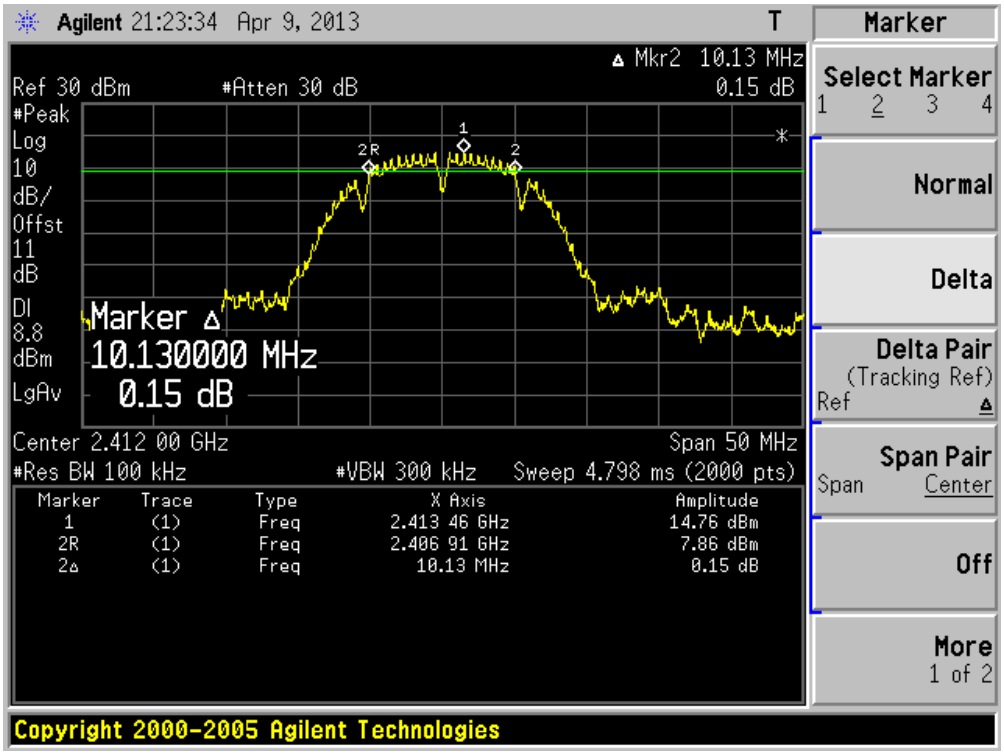

**Channel 159 (5795MHz)**



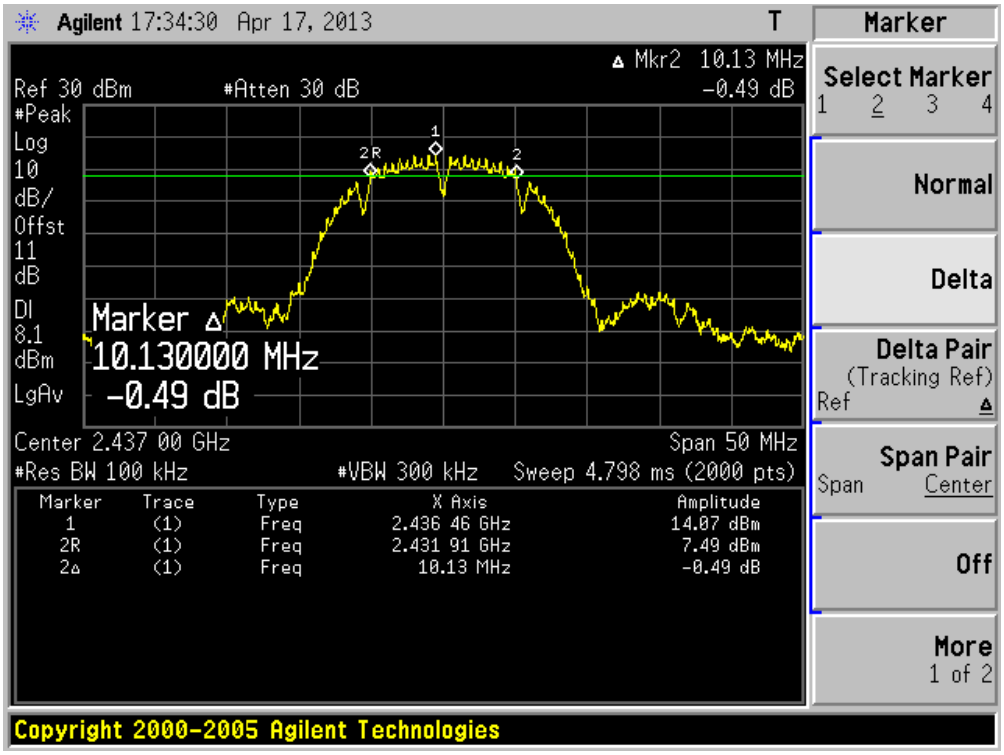
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 2) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 10130.0 | 500 | Pass |
| 06 | 2437 | 10130.0 | 500 | Pass |
| 11 | 2462 | 10130.0 | 500 | Pass |

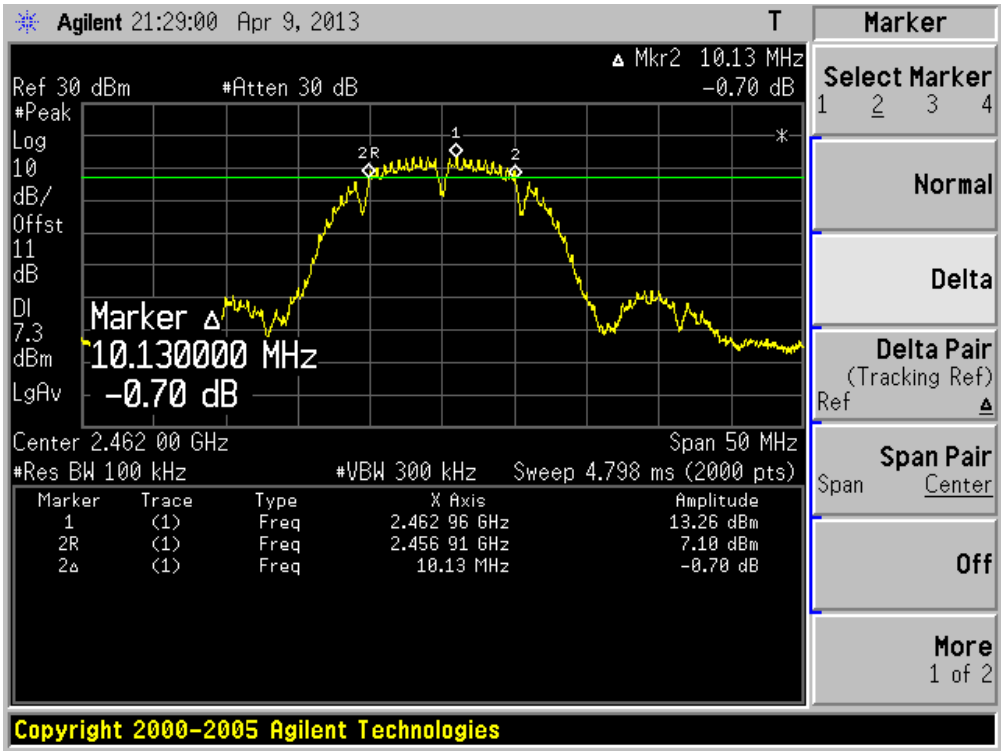
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



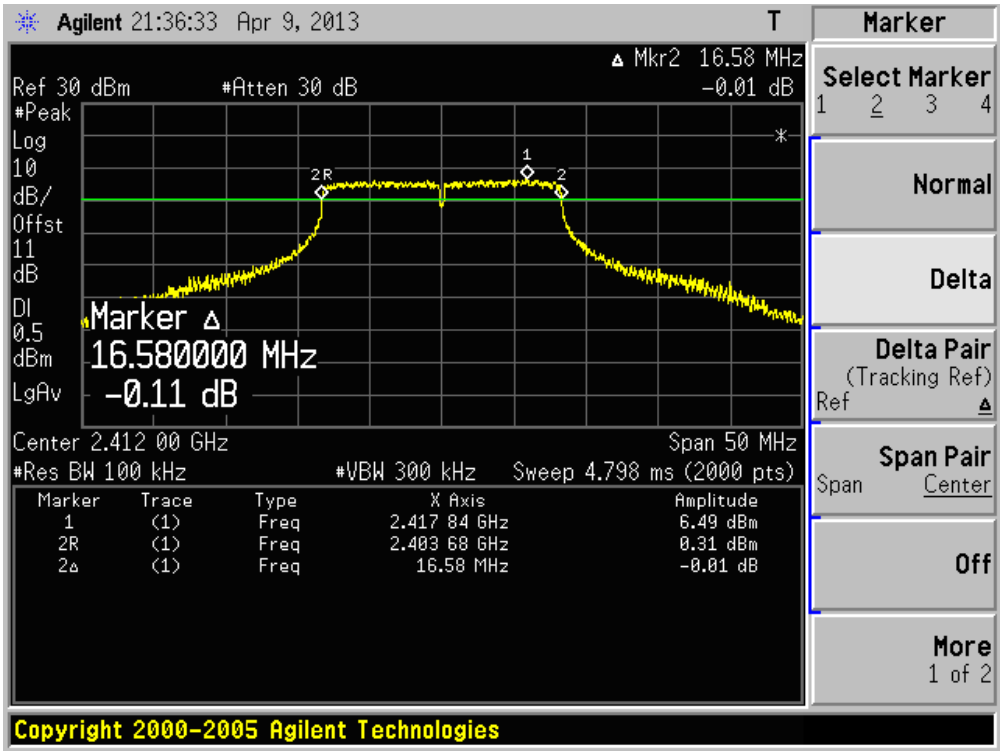

**Channel 11 (2462MHz)**



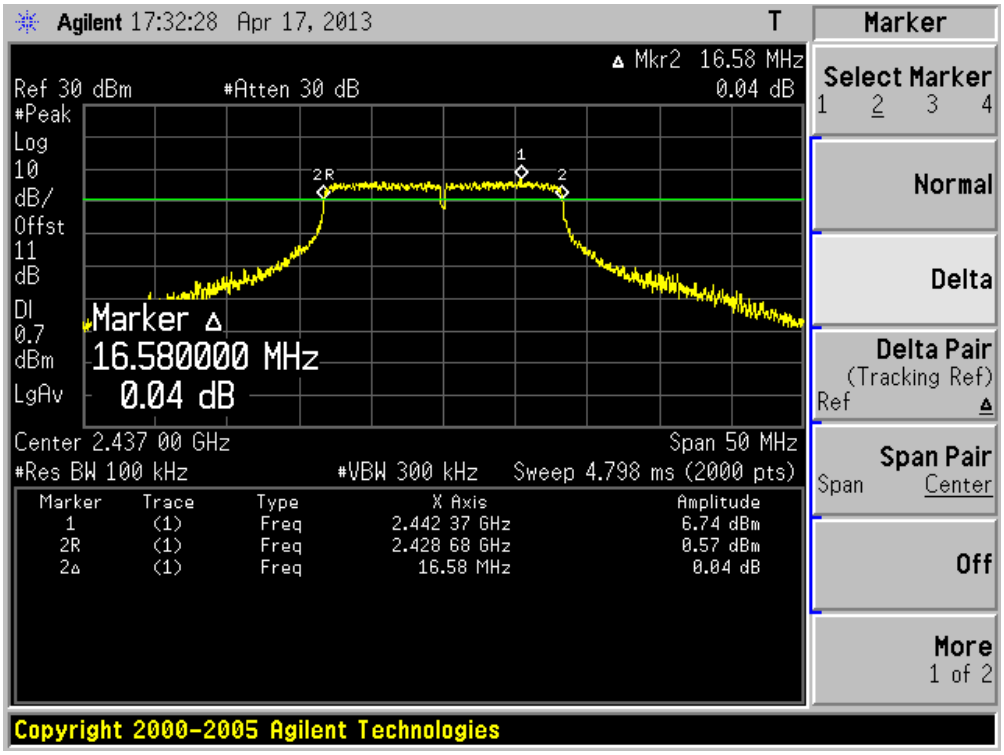
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 2) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 16580.0 | 500 | Pass |
| 06 | 2437 | 16580.0 | 500 | Pass |
| 11 | 2462 | 16580.0 | 500 | Pass |

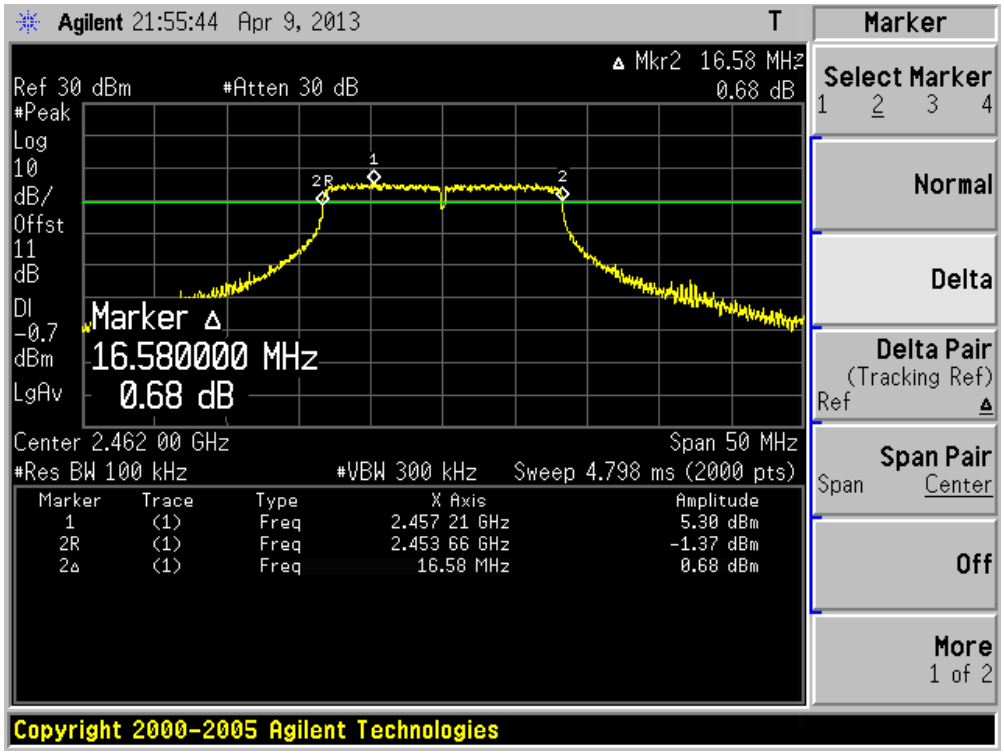
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



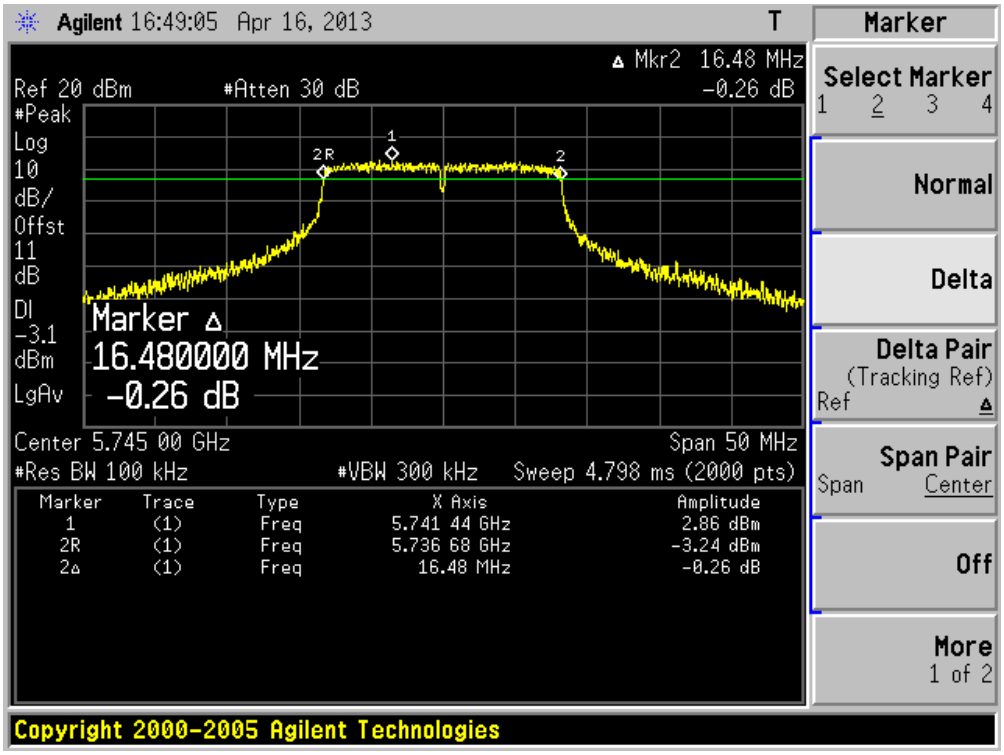

**Channel 11 (2462MHz)**



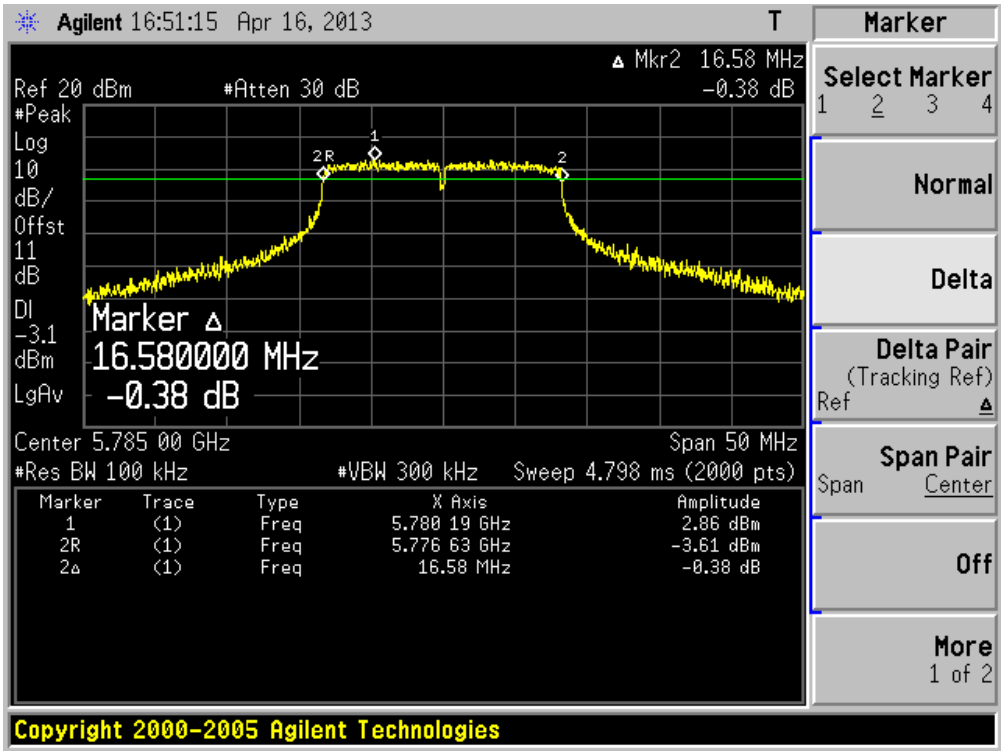
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 2) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 149 | 5745 | 16480.0 | 500 | Pass |
| 157 | 5785 | 16580.0 | 500 | Pass |
| 165 | 5825 | 16530.0 | 500 | Pass |

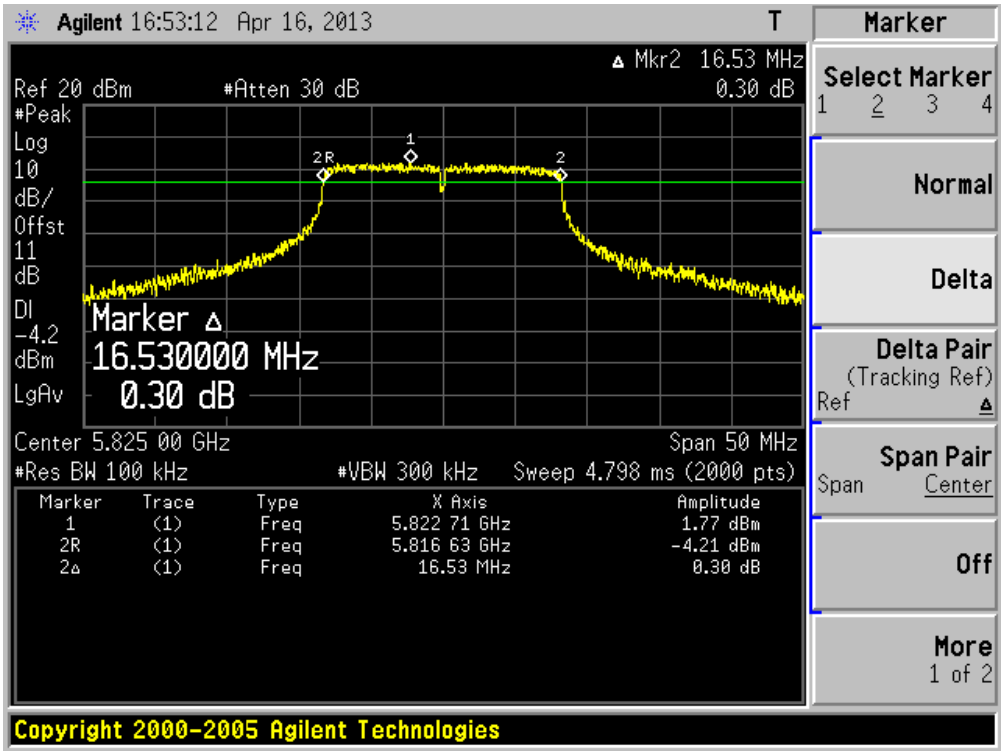
**Channel 149 (5745MHz)**



**Channel 157 (5785MHz)**



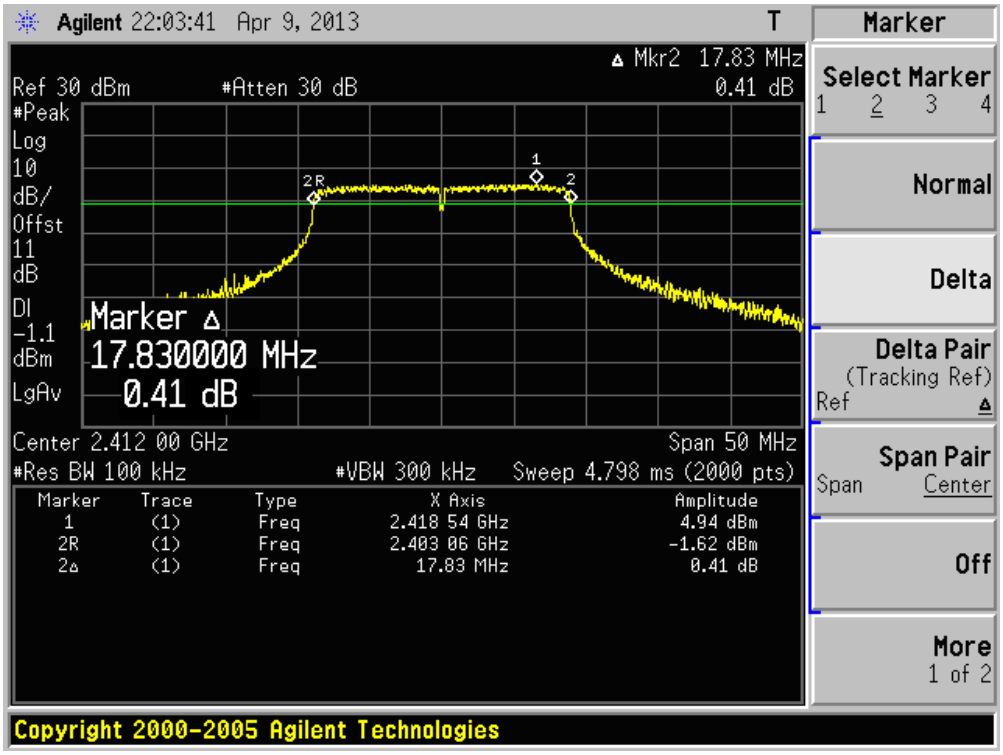

**Channel 165 (5825MHz)**



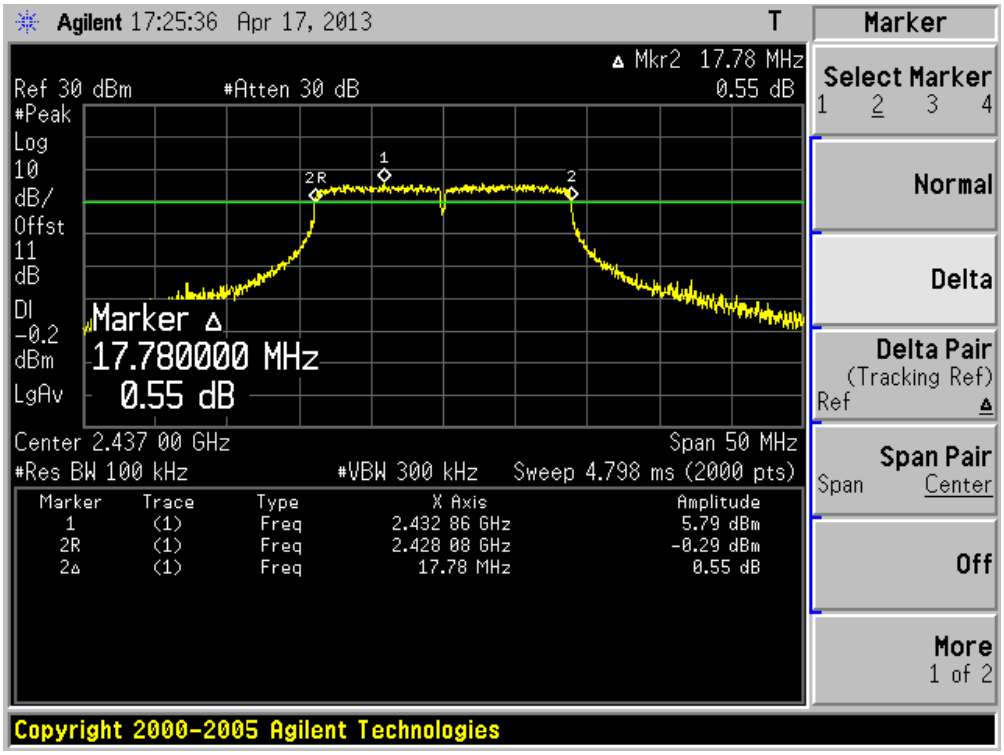
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 2) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 01 | 2412 | 17830.0 | 500 | Pass |
| 06 | 2437 | 17780.0 | 500 | Pass |
| 11 | 2462 | 17830.0 | 500 | Pass |
| 149 | 5745 | 17680.0 | 500 | Pass |
| 157 | 5785 | 17780.0 | 500 | Pass |
| 165 | 5825 | 17710.0 | 500 | Pass |

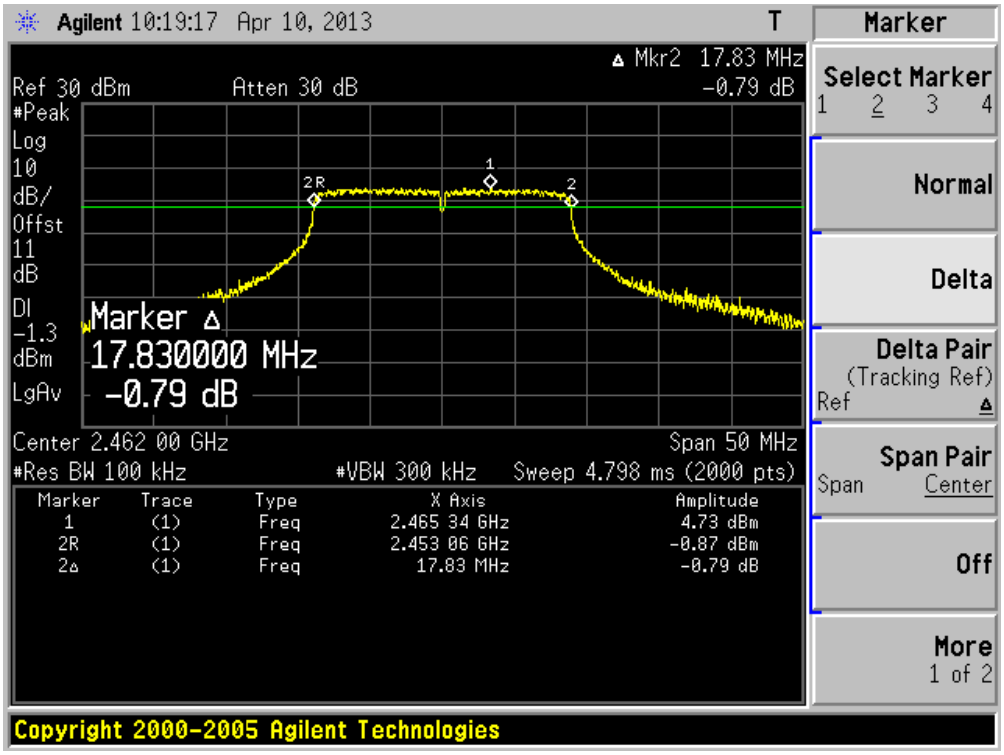
**Channel 01 (2412MHz)**



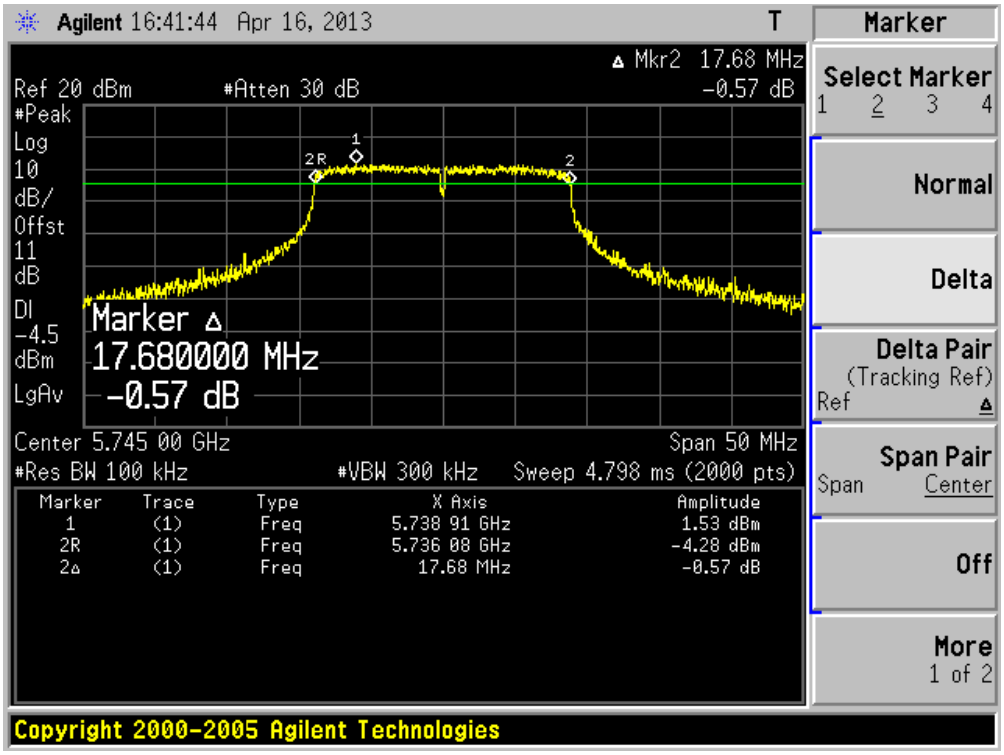
**Channel 06 (2437MHz)**



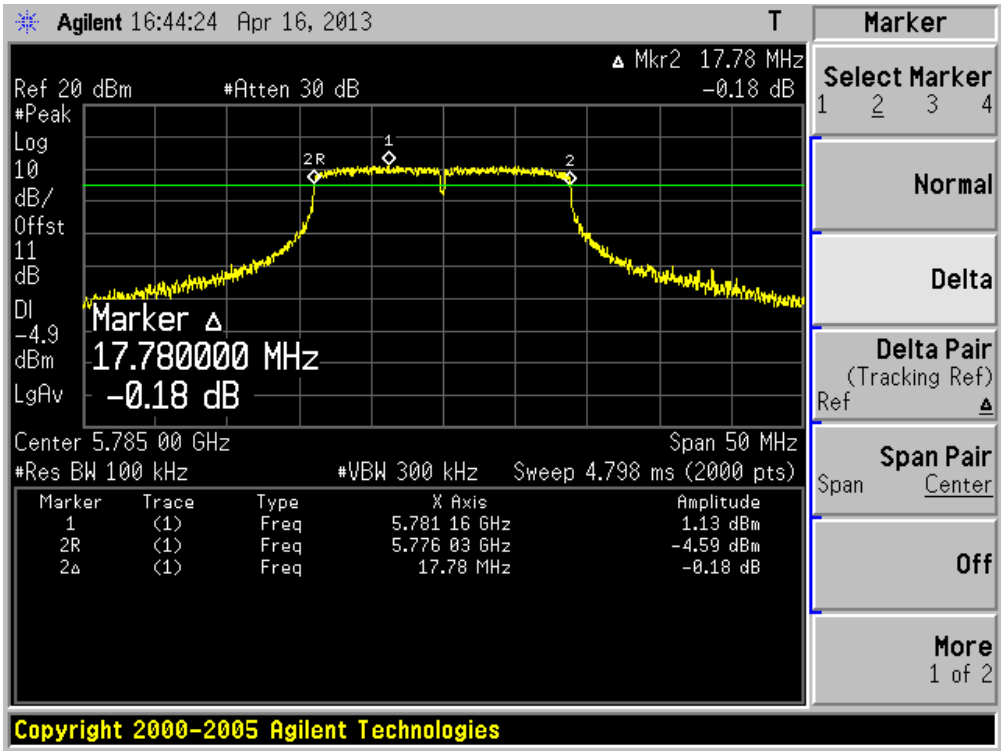

**Channel 11 (2462MHz)**



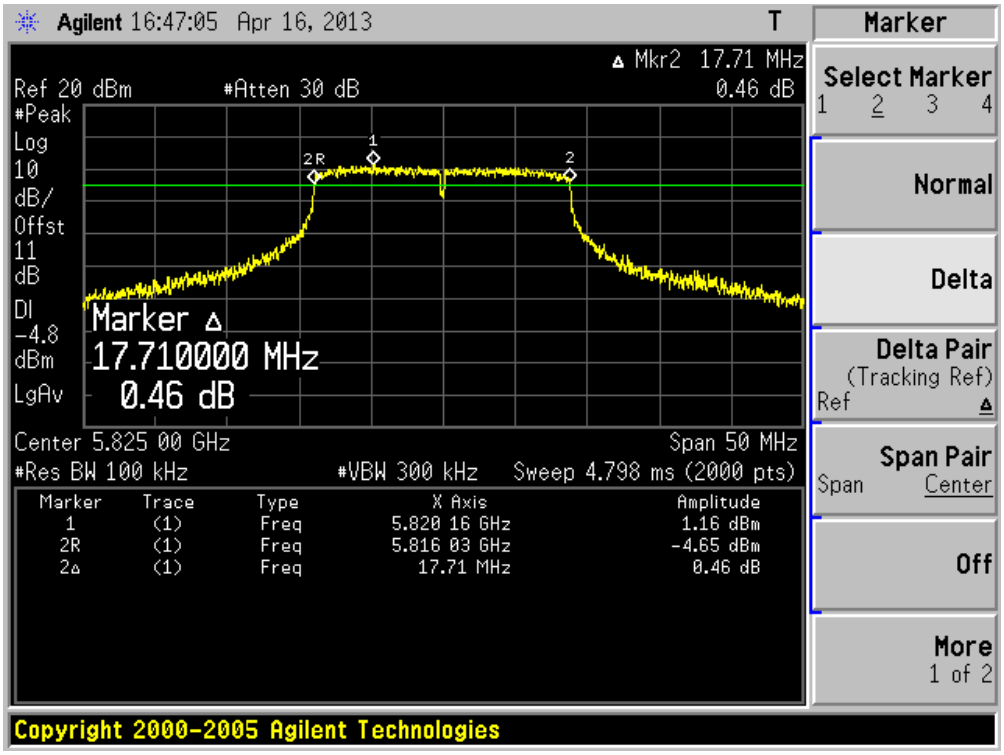
**Channel 149 (5745MHz)**




**Channel 157 (5785MHz)**



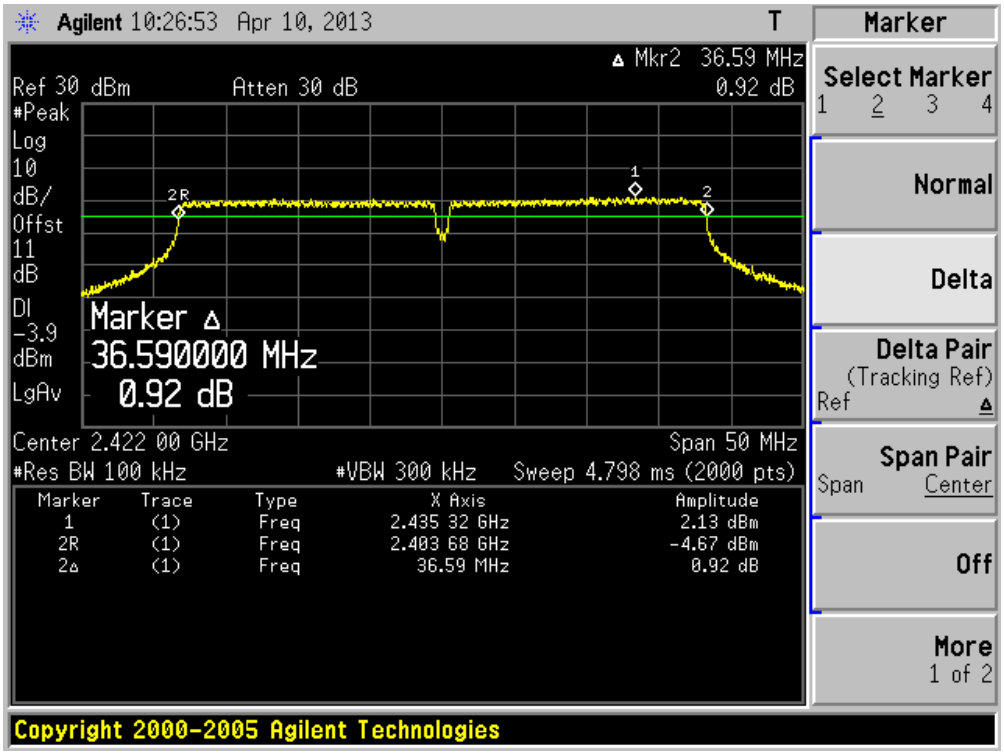
**Channel 165 (5825MHz)**



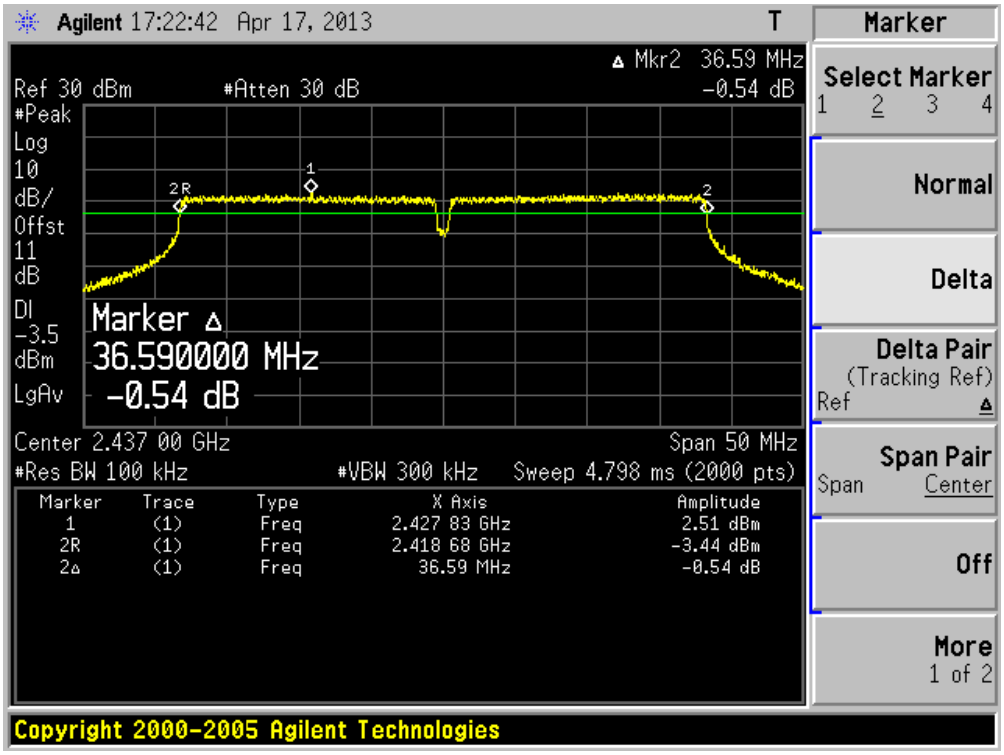
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | 6dB Occupied Bandwidth |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 2) |

| Channel No. | Frequency (MHz) | Occupied Bandwidth (kHz) | Limit (kHz) | Result |
|---|---|---|---|---|
| 03 | 2422 | 36590.0 | 500 | Pass |
| 06 | 2437 | 36590.0 | 500 | Pass |
| 09 | 2452 | 36620.0 | 500 | Pass |
| 151 | 5755 | 36470.0 | 500 | Pass |
| 159 | 5795 | 36470.0 | 500 | Pass |

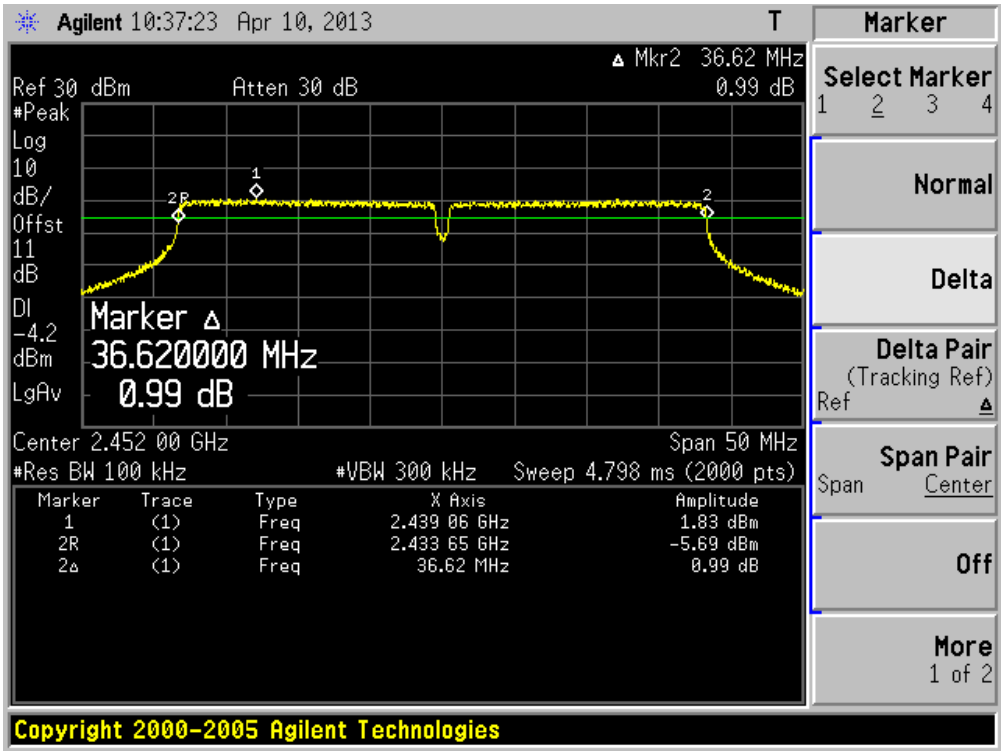
**Channel 03 (2422MHz)**



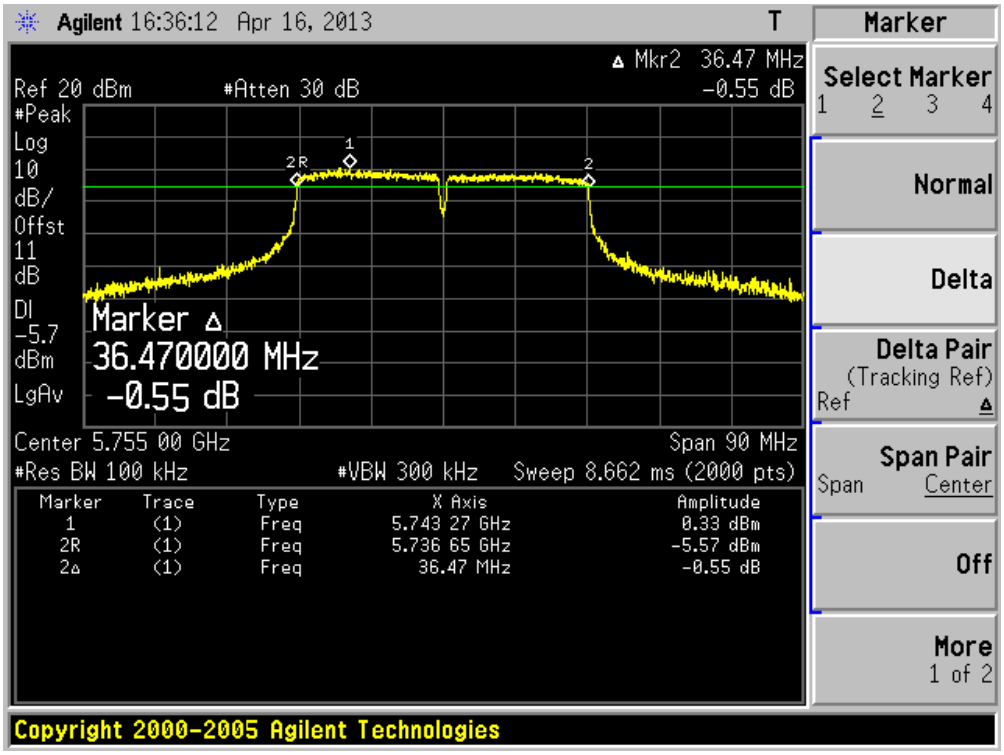
**Channel 06 (2437MHz)**



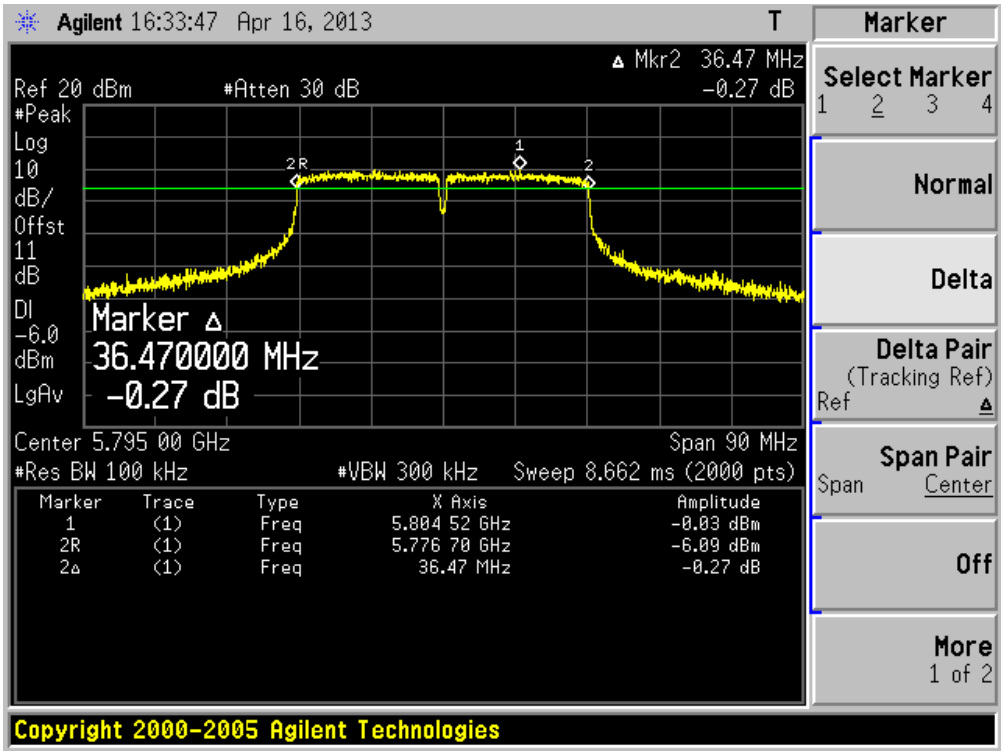

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**




**Channel 159 (5795MHz)**



# 9. Power Output

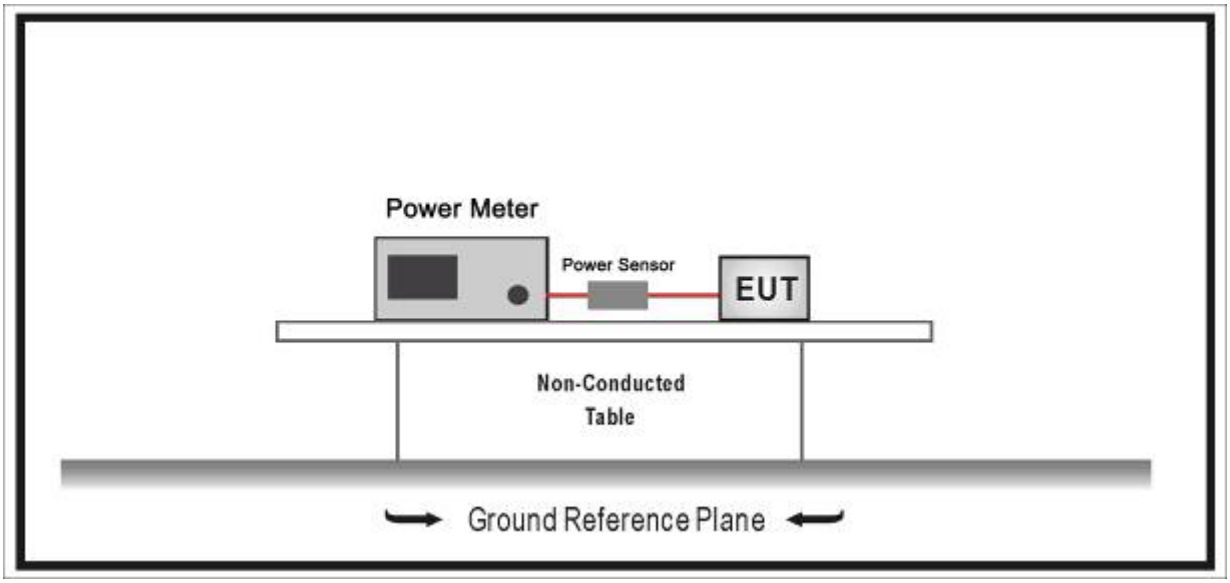
## 9.1. Test Equipment

Power Output / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| Wideband Peak Power Meter | Anritsu | ML2495A | 0905006 | 2013.11.10 |
| Power Sensor | Anritsu | MA2411B | 0846014 | 2013.11.10 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR8-TH | 2014.05.07 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 9.2. Test Setup




## 9.3. Limit

The maximum peak power shall be less 1 Watt (30dBm).

Note: the conducted output power limit specified above is based on the use the antennas with directional gains that do not exceed 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values above, as appropriate, by the amount in dB that the directional gain of antenna exceeds 6 dBi.

## 9.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

Use the broadband peak RF power meter to test peak power and record the result.

## 9.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

## 9.6. Test Result

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (blue marker) for final test of each channel.

| MCS Index for 802.11n | Spatial Streams | Data Rate (Mbps) | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | 802.11b | 802.11g | 802.11a | 20MHz Bandwidth | | 40MHz Bandwidth | |
| | | | | | 800ns GI | 400ns GI | 800ns GI | 400ns GI |
| 0 | 1 | 1 | 6 | 6 | 6.5 | 7.2 | 13.5 | 15.0 |
| 1 | 1 | 2 | 9 | 9 | 13.0 | 14.4 | 27.0 | 30.0 |
| 2 | 1 | 5.5 | 12 | 12 | 19.5 | 21.7 | 40.5 | 45.0 |
| 3 | 1 | 11 | 18 | 18 | 26.0 | 28.9 | 54.0 | 60.0 |
| 4 | 1 | --- | 24 | 24 | 39.0 | 43.3 | 81.0 | 90.0 |
| 5 | 1 | --- | 36 | 36 | 52.0 | 57.8 | 108.0 | 120.0 |
| 6 | 1 | --- | 48 | 48 | 58.5 | 65.0 | 121.5 | 135.0 |
| 7 | 1 | --- | 54 | 54 | 65.0 | 72.2 | 135.0 | 150.0 |
| 8 | 2 | --- | --- | --- | 13.0 | 14.4 | 27.0 | 30.0 |
| 9 | 2 | --- | --- | --- | 26.0 | 28.9 | 54.0 | 60.0 |
| 10 | 2 | --- | --- | --- | 39.0 | 43.3 | 81.0 | 90.0 |
| 11 | 2 | --- | --- | --- | 52.0 | 57.8 | 108.0 | 120.0 |
| 12 | 2 | --- | --- | --- | 78.0 | 86.7 | 162.0 | 180.0 |
| 13 | 2 | --- | --- | --- | 104.0 | 115.6 | 216.0 | 240.0 |
| 14 | 2 | --- | --- | --- | 117.0 | 130.0 | 243.0 | 270.0 |
| 15 | 2 | --- | --- | --- | 130.0 | 144.0 | 270.0 | 300.0 |
| 16 | 3 | --- | --- | --- | 19.5 | 21.7 | 40.5 | 45.0 |
| 17 | 3 | --- | --- | --- | 39.0 | 43.3 | 81.0 | 90.0 |
| 18 | 3 | --- | --- | --- | 58.5 | 65.0 | 121.5 | 135.0 |
| 19 | 3 | --- | --- | --- | 78.0 | 86.7 | 162.0 | 180.0 |
| 20 | 3 | --- | --- | --- | 117.0 | 130.0 | 243.0 | 270.0 |
| 21 | 3 | --- | --- | --- | 156.0 | 173.3 | 324.0 | 360.0 |
| 22 | 3 | --- | --- | --- | 175.5 | 195.0 | 364.5 | 405.0 |
| 23 | 3 | --- | --- | --- | 195.0 | 216.7 | 405.0 | 450.0 |

Power output at various data rates:

| Test Mode | Bandwidth | Frequency (MHz) | Channel | Data Rate | Peak Power (dBm) |
|---|---|---|---|---|---|
| 802.11b(Chain 0) | 20 | 2437 | 6 | 1 | 21.39 |
| | | | | 5.5 | 21.21 |
| | | | | 11 | 20.78 |
| 802.11g(Chain 0) | 20 | 2437 | 6 | 6 | 23.56 |
| | | | | 24 | 23.43 |
| | | | | 54 | 23.37 |
| 802.11a(Chain 0) | 20 | 5785 | 157 | 6 | 23.46 |
| | | | | 24 | 23.14 |
| | | | | 54 | 22.94 |
| 802.11n(Chain 0) | 20 | 2437 | 6 | MCS0 | 22.24 |
| | | | | MCS4 | 22.18 |
| | | | | MCS7 | 22.11 |
| | | 5785 | 157 | MCS0 | 23.26 |
| | | | | MCS4 | 23.25 |
| | | | | MCS7 | 23.24 |
| 802.11n(Chain 0) | 40 | 2437 | 6 | MCS0 | 23.34 |
| | | | | MCS4 | 23.15 |
| | | | | MCS7 | 23.12 |
| | | 5755 | 151 | MCS0 | 23.96 |
| | | | | MCS4 | 22.92 |
| | | | | MCS7 | 22.89 |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | 20.62 | N/A | N/A | 20.62 | 30.00 | Pass |
| 6 | 2437 | 21.39 | N/A | N/A | 21.39 | 30.00 | Pass |
| 11 | 2462 | 20.44 | N/A | N/A | 20.44 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | N/A | 17.53 | N/A | 17.53 | 30.00 | Pass |
| 6 | 2437 | N/A | 18.26 | N/A | 18.26 | 30.00 | Pass |
| 11 | 2462 | N/A | 17.79 | N/A | 17.79 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | N/A | N/A | 20.73 | 20.73 | 30.00 | Pass |
| 6 | 2437 | N/A | N/A | 22.33 | 22.33 | 30.00 | Pass |
| 11 | 2462 | N/A | N/A | 19.94 | 19.94 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | 21.86 | N/A | N/A | 21.86 | 30.00 | Pass |
| 6 | 2437 | 23.56 | N/A | N/A | 23.56 | 30.00 | Pass |
| 11 | 2462 | 22.48 | N/A | N/A | 22.48 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | N/A | 22.36 | N/A | 22.36 | 30.00 | Pass |
| 6 | 2437 | N/A | 23.02 | N/A | 23.02 | 30.00 | Pass |
| 11 | 2462 | N/A | 23.08 | N/A | 23.08 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | N/A | N/A | 22.88 | 22.88 | 30.00 | Pass |
| 6 | 2437 | N/A | N/A | 23.03 | 23.03 | 30.00 | Pass |
| 11 | 2462 | N/A | N/A | 22.86 | 22.86 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 149 | 5745 | 24.37 | N/A | N/A | 24.37 | 30.00 | Pass |
| 157 | 5785 | 23.46 | N/A | N/A | 23.46 | 30.00 | Pass |
| 165 | 5825 | 23.11 | N/A | N/A | 23.11 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 149 | 5745 | N/A | 23.75 | N/A | 23.75 | 30.00 | Pass |
| 157 | 5785 | N/A | 23.58 | N/A | 23.58 | 30.00 | Pass |
| 165 | 5825 | N/A | 23.46 | N/A | 23.46 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 149 | 5745 | N/A | N/A | 23.51 | 23.51 | 30.00 | Pass |
| 157 | 5785 | N/A | N/A | 23.42 | 23.42 | 30.00 | Pass |
| 165 | 5825 | N/A | N/A | 22.68 | 22.68 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 4: Transmit by 802.11n(20MHz) (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | 21.97 | N/A | N/A | 21.97 | 30.00 | Pass |
| 6 | 2437 | 22.24 | N/A | N/A | 22.24 | 30.00 | Pass |
| 11 | 2462 | 22.29 | N/A | N/A | 22.29 | 30.00 | Pass |
| 149 | 5745 | 23.59 | N/A | N/A | 23.59 | 30.00 | Pass |
| 157 | 5785 | 23.26 | N/A | N/A | 23.26 | 30.00 | Pass |
| 165 | 5825 | 22.86 | N/A | N/A | 22.86 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 4: Transmit by 802.11n(20MHz) (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | N/A | 22.52 | N/A | 22.52 | 30.00 | Pass |
| 6 | 2437 | N/A | 22.83 | N/A | 22.83 | 30.00 | Pass |
| 11 | 2462 | N/A | 23.14 | N/A | 23.14 | 30.00 | Pass |
| 149 | 5745 | N/A | 23.61 | N/A | 23.61 | 30.00 | Pass |
| 157 | 5785 | N/A | 23.39 | N/A | 23.39 | 30.00 | Pass |
| 165 | 5825 | N/A | 23.19 | N/A | 23.19 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 4: Transmit by 802.11n(20MHz) (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | N/A | N/A | 22.43 | 22.43 | 30.00 | Pass |
| 6 | 2437 | N/A | N/A | 23.51 | 23.51 | 30.00 | Pass |
| 11 | 2462 | N/A | N/A | 22.61 | 22.61 | 30.00 | Pass |
| 149 | 5745 | N/A | N/A | 23.24 | 23.24 | 30.00 | Pass |
| 157 | 5785 | N/A | N/A | 23.16 | 23.16 | 30.00 | Pass |
| 165 | 5825 | N/A | N/A | 22.97 | 22.97 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 4: Transmit by 802.11n(20MHz) (Chain 0+1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | 21.56 | 21.72 | N/A | 24.65 | 30.00 | Pass |
| 6 | 2437 | 23.17 | 23.24 | N/A | 26.22 | 30.00 | Pass |
| 11 | 2462 | 22.18 | 22.25 | N/A | 25.23 | 30.00 | Pass |
| 149 | 5745 | 23.37 | 22.82 | N/A | 26.11 | 30.00 | Pass |
| 157 | 5785 | 23.48 | 23.01 | N/A | 26.26 | 30.00 | Pass |
| 165 | 5825 | 22.51 | 23.34 | N/A | 25.96 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 4: Transmit by 802.11n(20MHz) (Chain 0+1+2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 1 | 2412 | 21.07 | 20.61 | 20.89 | 25.63 | 30.00 | Pass |
| 6 | 2437 | 23.28 | 22.13 | 22.63 | 27.48 | 30.00 | Pass |
| 11 | 2462 | 21.15 | 20.72 | 20.43 | 25.55 | 30.00 | Pass |
| 149 | 5745 | 22.41 | 23.05 | 22.87 | 27.56 | 30.00 | Pass |
| 157 | 5785 | 23.13 | 22.71 | 22.61 | 27.59 | 30.00 | Pass |
| 165 | 5825 | 22.63 | 22.98 | 22.21 | 27.39 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 5: Transmit by 802.11n(40MHz) (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 3 | 2422 | 21.51 | N/A | N/A | 21.51 | 30.00 | Pass |
| 6 | 2437 | 23.34 | N/A | N/A | 23.34 | 30.00 | Pass |
| 9 | 2452 | 21.36 | N/A | N/A | 21.36 | 30.00 | Pass |
| 151 | 5755 | 23.96 | N/A | N/A | 23.96 | 30.00 | Pass |
| 159 | 5795 | 23.95 | N/A | N/A | 23.95 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 5: Transmit by 802.11n(40MHz) (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 3 | 2422 | N/A | 21.89 | N/A | 21.89 | 30.00 | Pass |
| 6 | 2437 | N/A | 23.64 | N/A | 23.64 | 30.00 | Pass |
| 9 | 2452 | N/A | 22.62 | N/A | 22.62 | 30.00 | Pass |
| 151 | 5755 | N/A | 23.64 | N/A | 23.64 | 30.00 | Pass |
| 159 | 5795 | N/A | 23.42 | N/A | 23.42 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 5: Transmit by 802.11n(40MHz) (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 3 | 2422 | N/A | N/A | 21.45 | 21.45 | 30.00 | Pass |
| 6 | 2437 | N/A | N/A | 23.68 | 23.68 | 30.00 | Pass |
| 9 | 2452 | N/A | N/A | 21.82 | 21.82 | 30.00 | Pass |
| 151 | 5755 | N/A | N/A | 23.62 | 23.62 | 30.00 | Pass |
| 159 | 5795 | N/A | N/A | 23.36 | 23.36 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 5: Transmit by 802.11n(40MHz) (Chain 0+1) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 3 | 2422 | 21.87 | 21.82 | N/A | 24.86 | 30.00 | Pass |
| 6 | 2437 | 23.49 | 23.41 | N/A | 26.46 | 30.00 | Pass |
| 9 | 2452 | 21.93 | 21.78 | N/A | 24.87 | 30.00 | Pass |
| 151 | 5755 | 23.37 | 22.56 | N/A | 25.99 | 30.00 | Pass |
| 159 | 5795 | 22.09 | 22.39 | N/A | 25.25 | 30.00 | Pass |

| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Output |
| Test Site | : | TR8 |
| Test Mode | : | Mode 5: Transmit by 802.11n(40MHz) (Chain 0+1+2) |

| Channel No. | Frequency (MHz) | Measurement Power Output (dBm) | | | Total Power (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 3 | 2422 | 21.48 | 21.03 | 21.63 | 26.16 | 30.00 | Pass |
| 6 | 2437 | 23.21 | 23.07 | 22.71 | 27.77 | 30.00 | Pass |
| 9 | 2452 | 21.23 | 21.25 | 21.79 | 26.20 | 30.00 | Pass |
| 151 | 5755 | 23.14 | 21.94 | 22.32 | 27.27 | 30.00 | Pass |
| 159 | 5795 | 22.47 | 21.63 | 21.46 | 26.65 | 30.00 | Pass |

# 10. Power Spectral Density

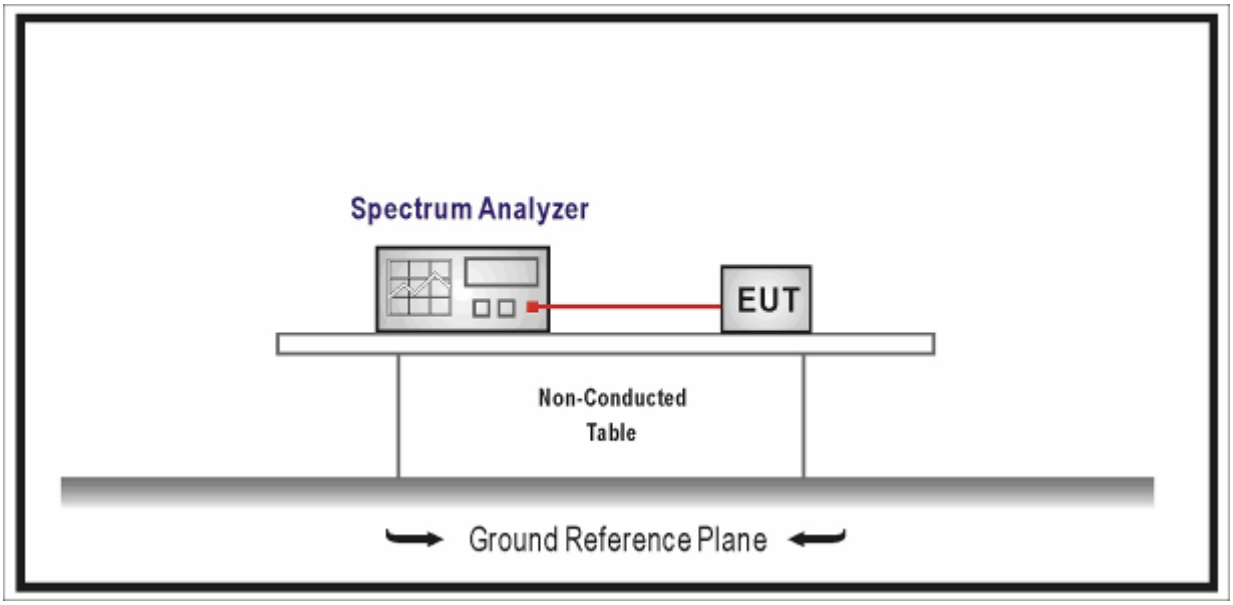
## 10.1. Test Equipment

Power Spectral Density / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|---|---|---|---|---|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2014.01.21 |
| Temperature/Humidity Meter | zhicheng | ZC1-2 | TR8-TH | 2014.05.07 |

Note: All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

## 10.2. Test Setup




## 10.3. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiated to the Antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

## 10.4. Test Procedure

The EUT was tested according to KDB 558074 for compliance to FCC 47CFR 15.247 requirements.
Set analyzer center frequency to DTS channel center frequency, the span to 1.5 times the DTS channel bandwidth, RBW ≧ 3 kHz, Set VBW ≧ 3 * RBW, Sweep time = auto couple, Detector = peak, Trace mode = max hold, Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level. If measured value exceed limit reduce RBW (no less than 3kHz) and repeat.

## 10.5. Uncertainty

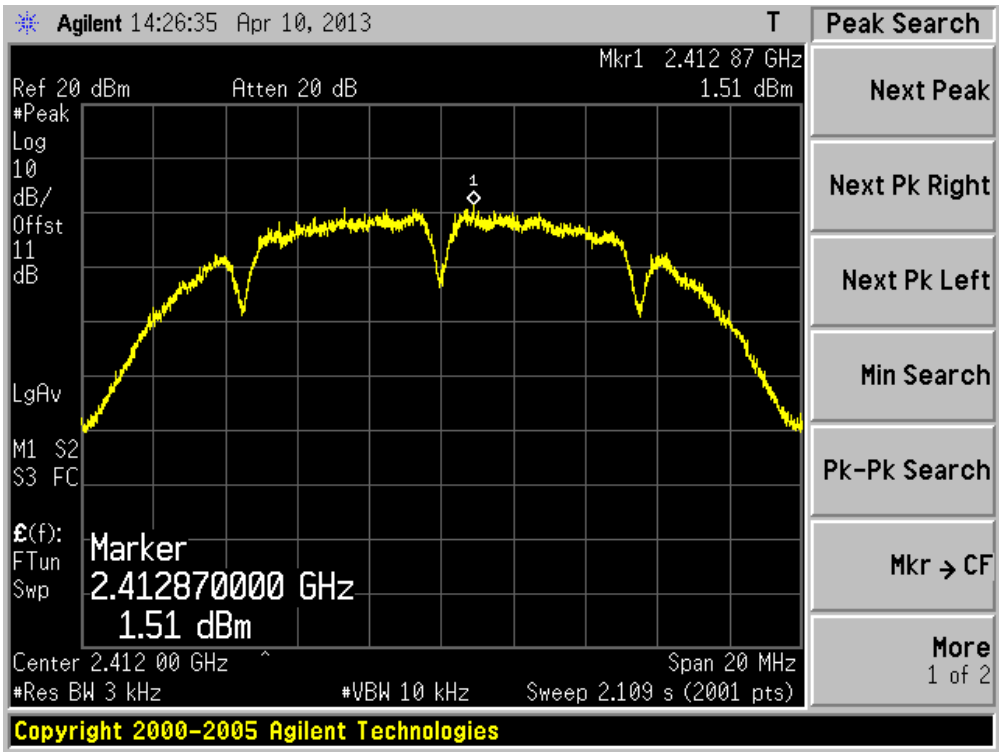
The measurement uncertainty is defined as ± 1.27 dB

## 10.6. Test Result

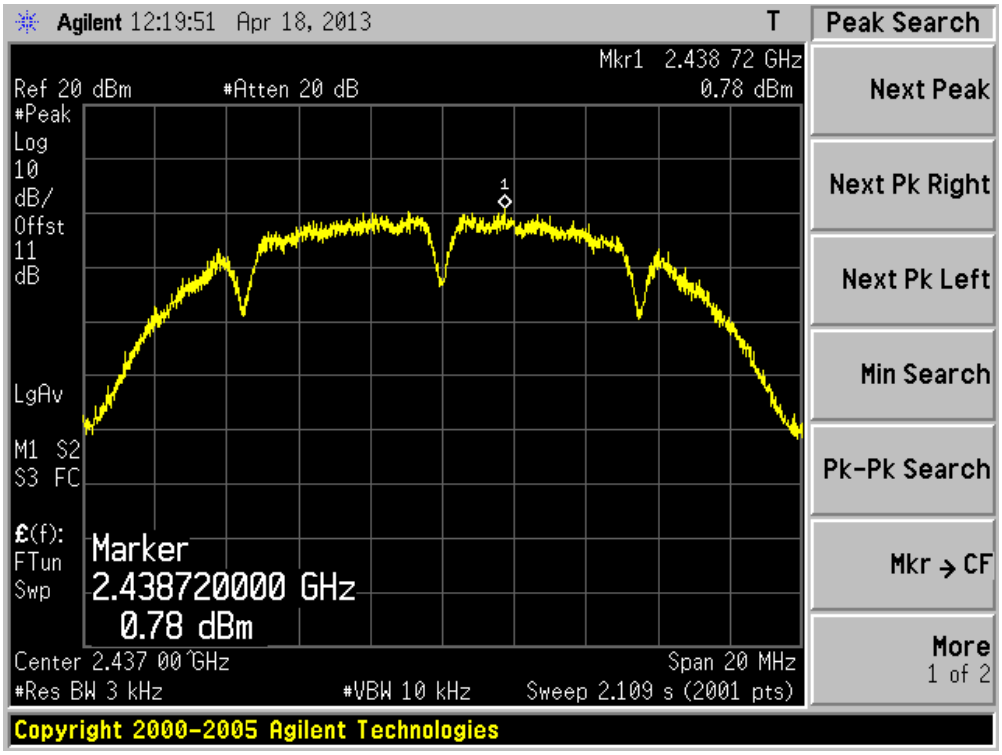
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | 1.51 | N/A | N/A | 1.51 | 8 | Pass |
| 06 | 2437 | 0.78 | N/A | N/A | 0.78 | 8 | Pass |
| 11 | 2462 | 2.89 | N/A | N/A | 2.89 | 8 | Pass |

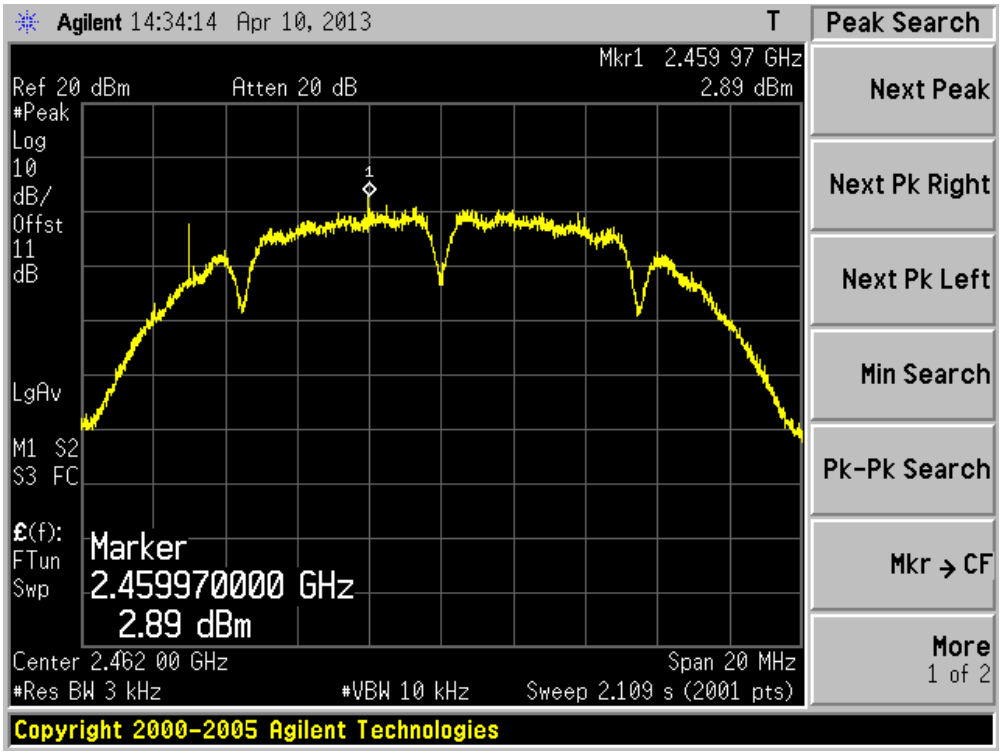
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



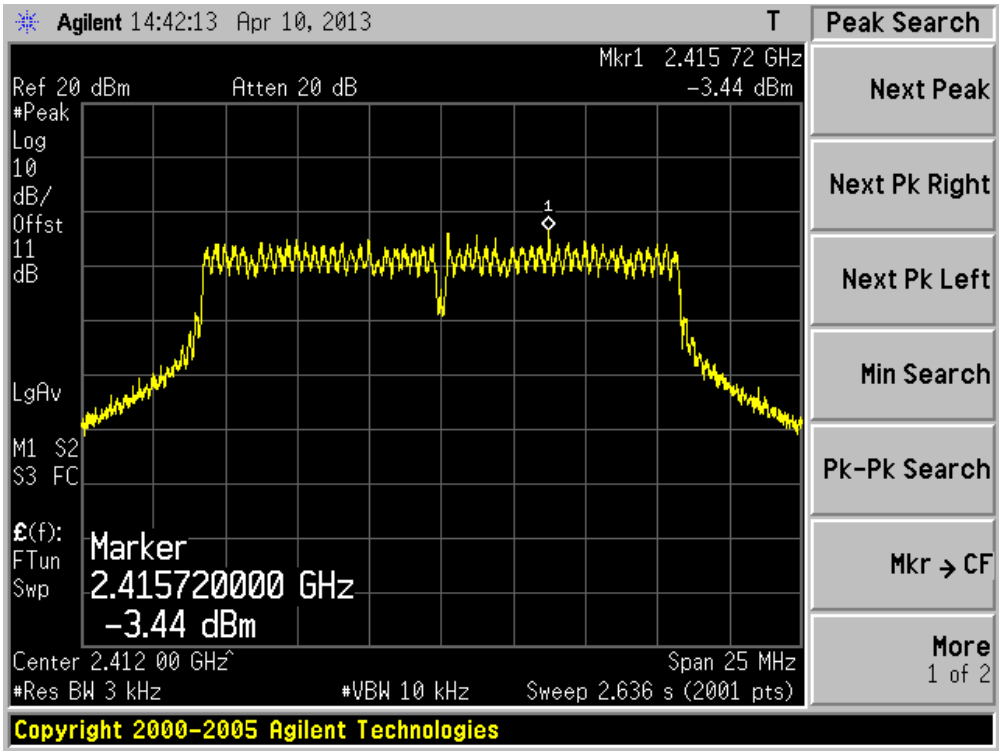

**Channel 11 (2462MHz)**



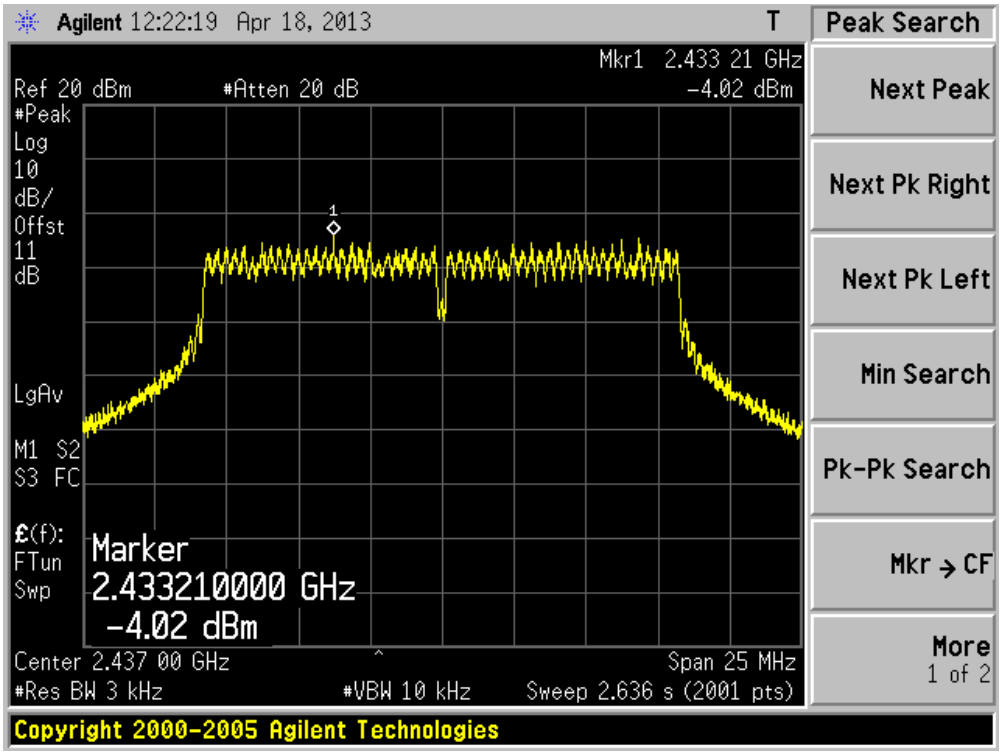
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | -3.44 | N/A | N/A | -3.44 | 8 | Pass |
| 06 | 2437 | -4.02 | N/A | N/A | -4.02 | 8 | Pass |
| 11 | 2462 | -5.59 | N/A | N/A | -5.59 | 8 | Pass |

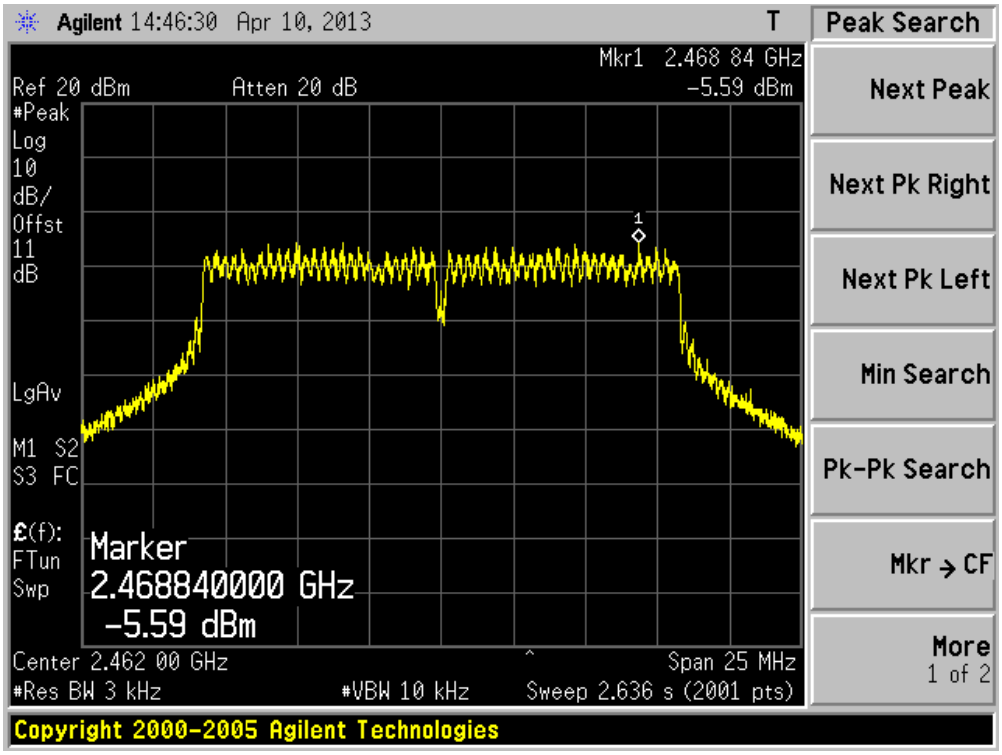
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



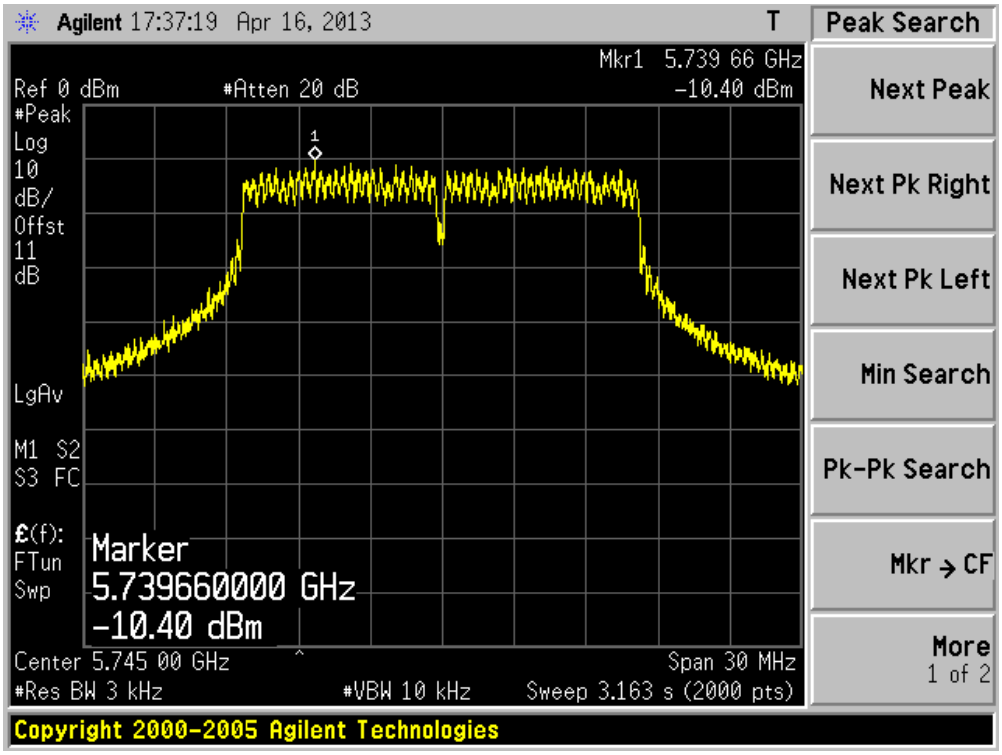

**Channel 11 (2462MHz)**



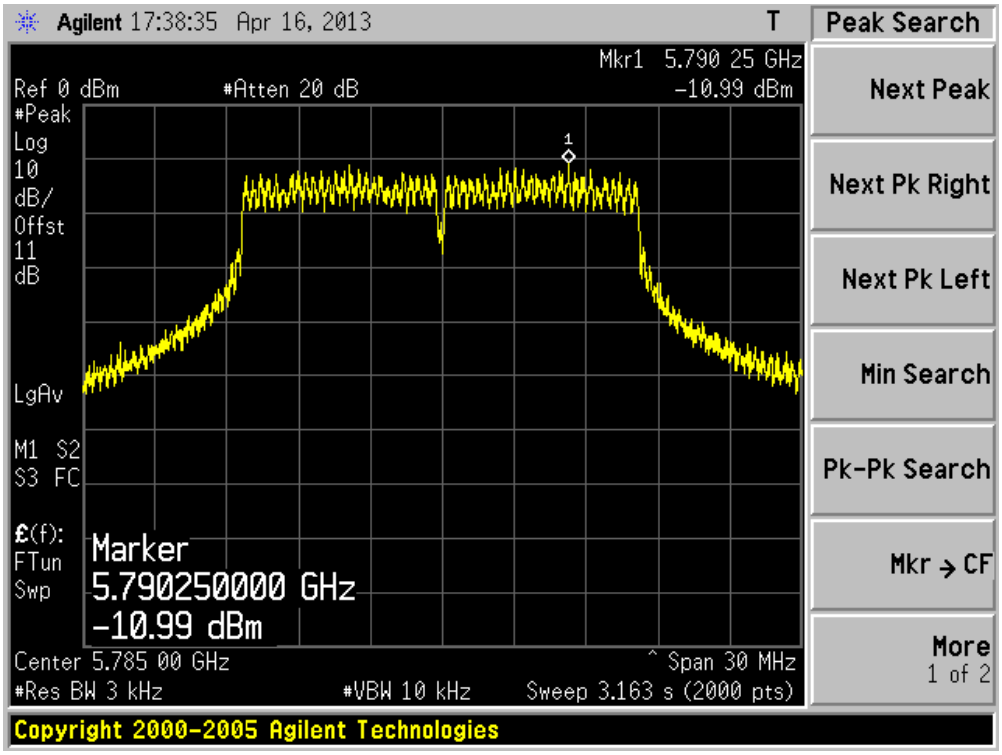
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 149 | 5745 | -10.40 | N/A | N/A | -10.40 | 8 | Pass |
| 157 | 5785 | -10.99 | N/A | N/A | -10.99 | 8 | Pass |
| 165 | 5825 | -11.01 | N/A | N/A | -11.01 | 8 | Pass |

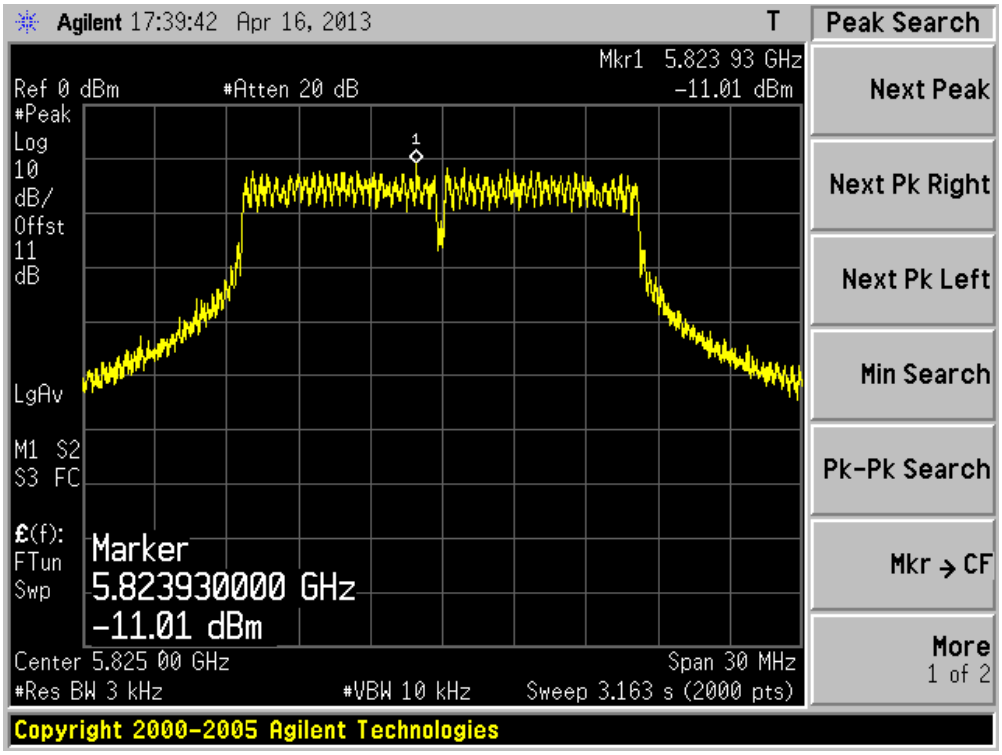
**Channel 149 (5745MHz)**



**Channel 157 (5785MHz)**



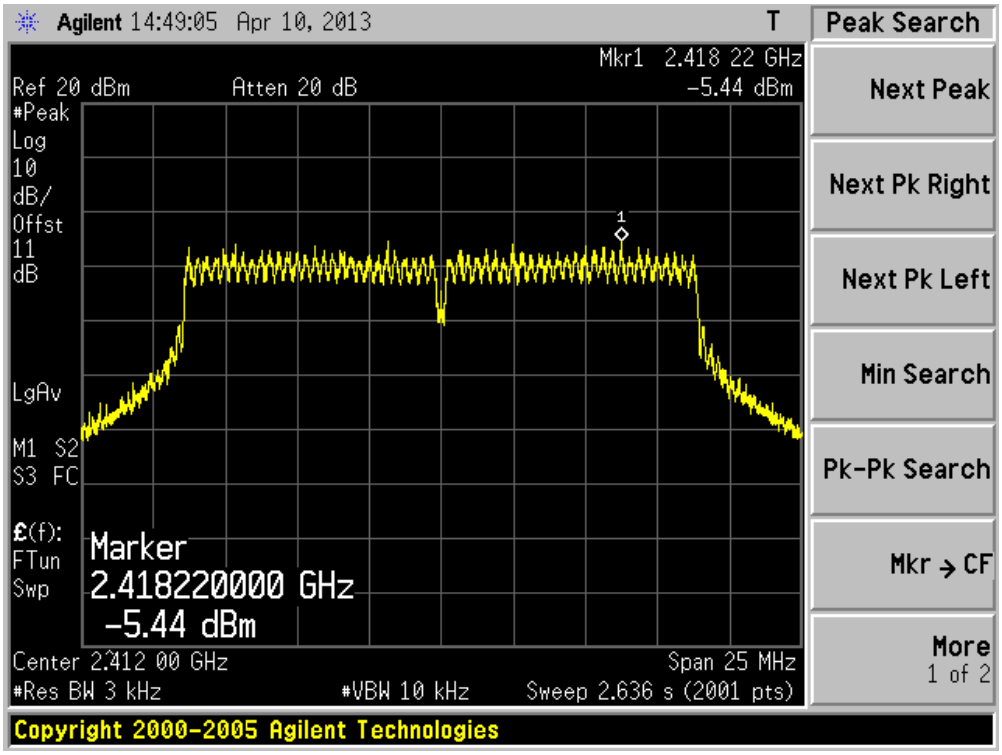

**Channel 165 (5825MHz)**



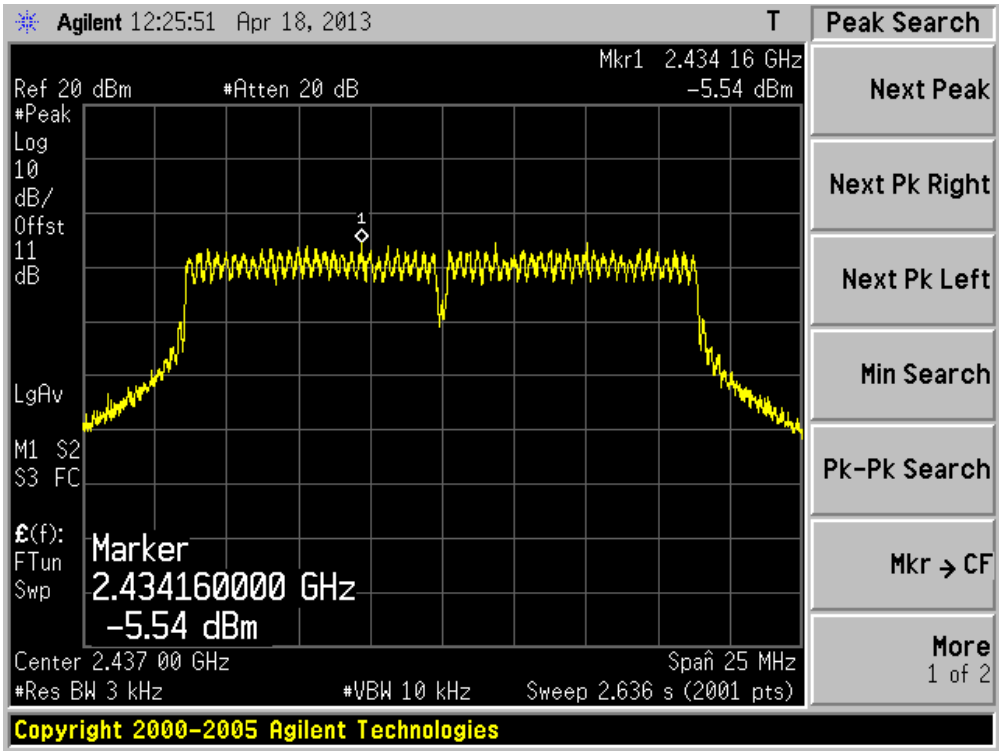
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | -5.44 | N/A | N/A | -5.44 | 8 | Pass |
| 06 | 2437 | -5.54 | N/A | N/A | -5.54 | 8 | Pass |
| 11 | 2462 | -6.53 | N/A | N/A | -6.53 | 8 | Pass |
| 149 | 5745 | -11.69 | N/A | N/A | -11.69 | 8 | Pass |
| 157 | 5785 | -11.67 | N/A | N/A | -11.67 | 8 | Pass |
| 165 | 5825 | -12.11 | N/A | N/A | -12.11 | 8 | Pass |

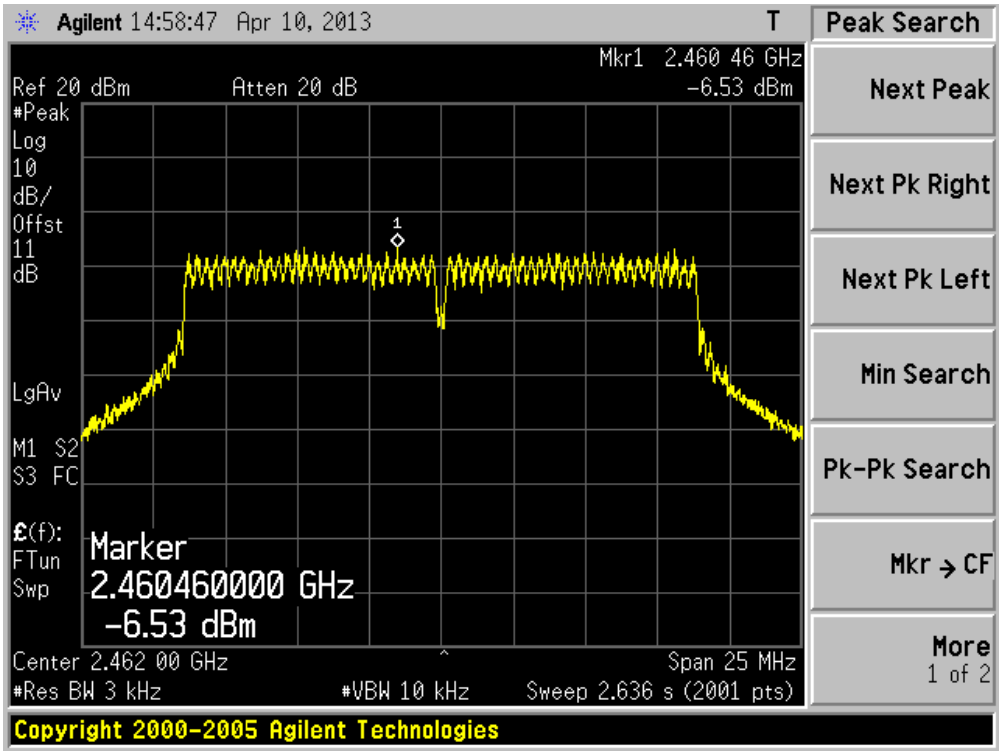
**Channel 01 (2412MHz)**



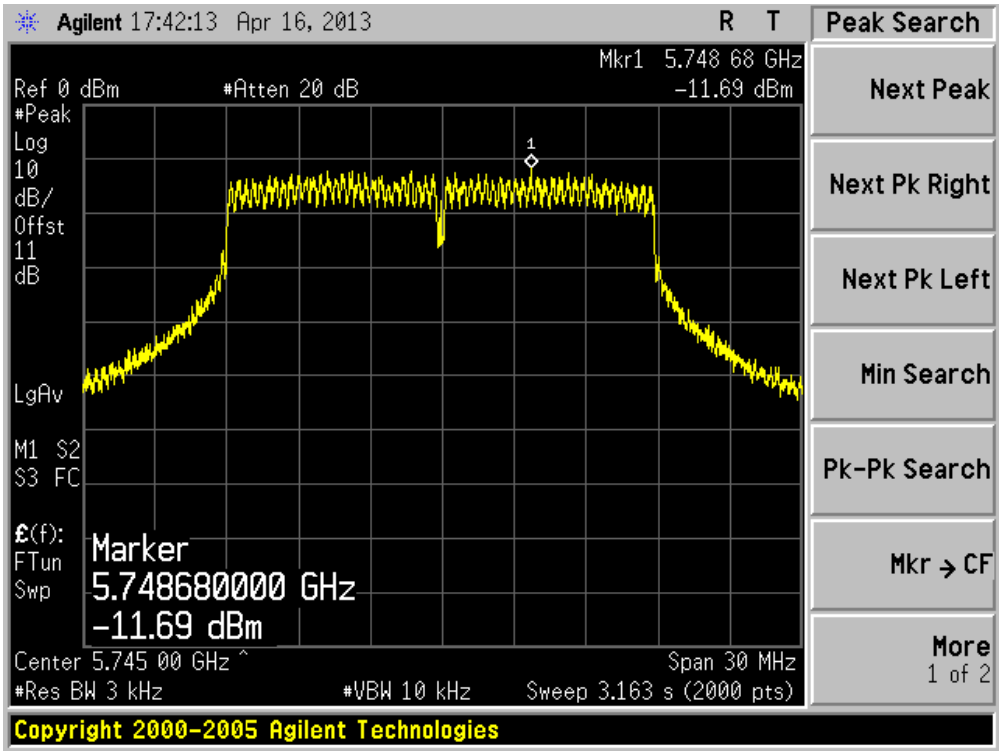
**Channel 06 (2437MHz)**



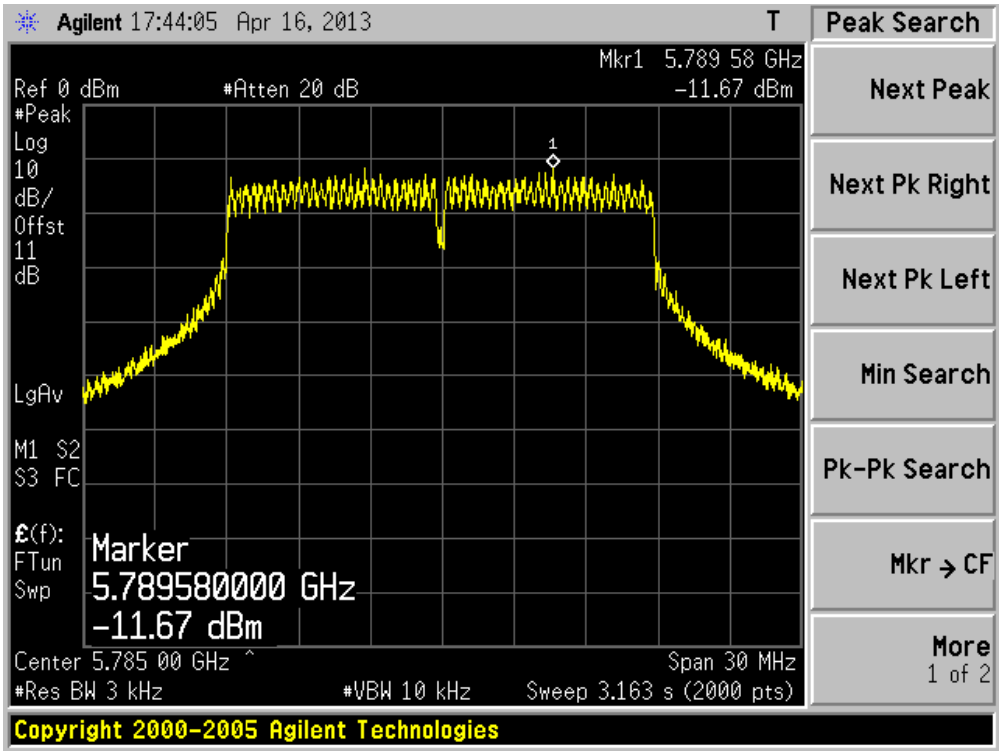

**Channel 11 (2462MHz)**



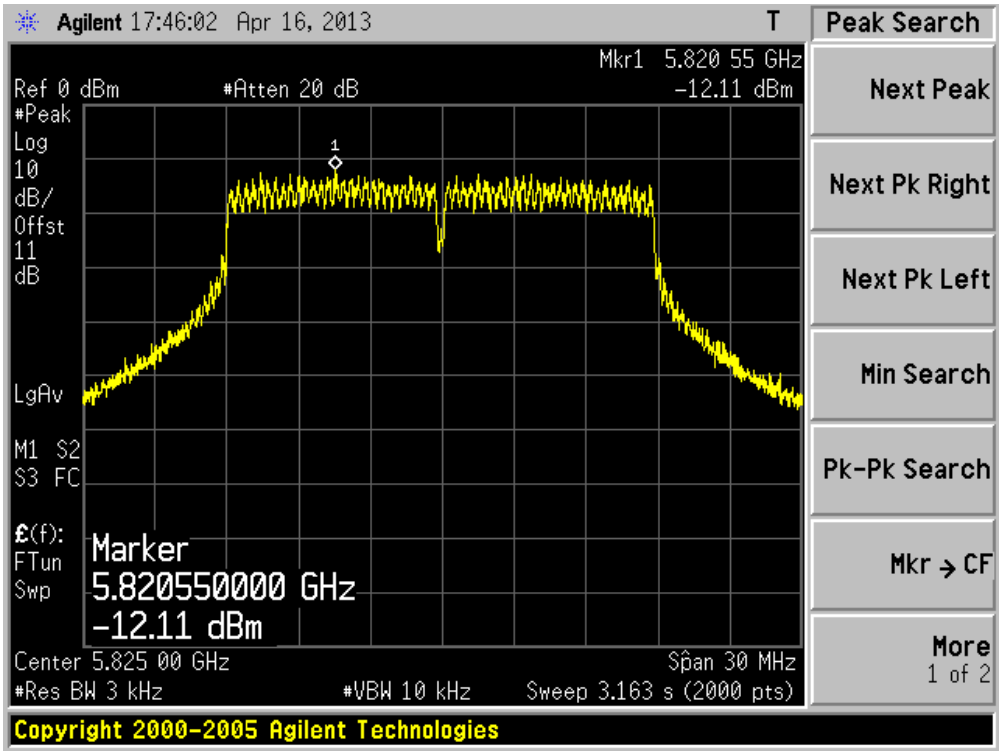
**Channel 149 (5745MHz)**




**Channel 157 (5785MHz)**



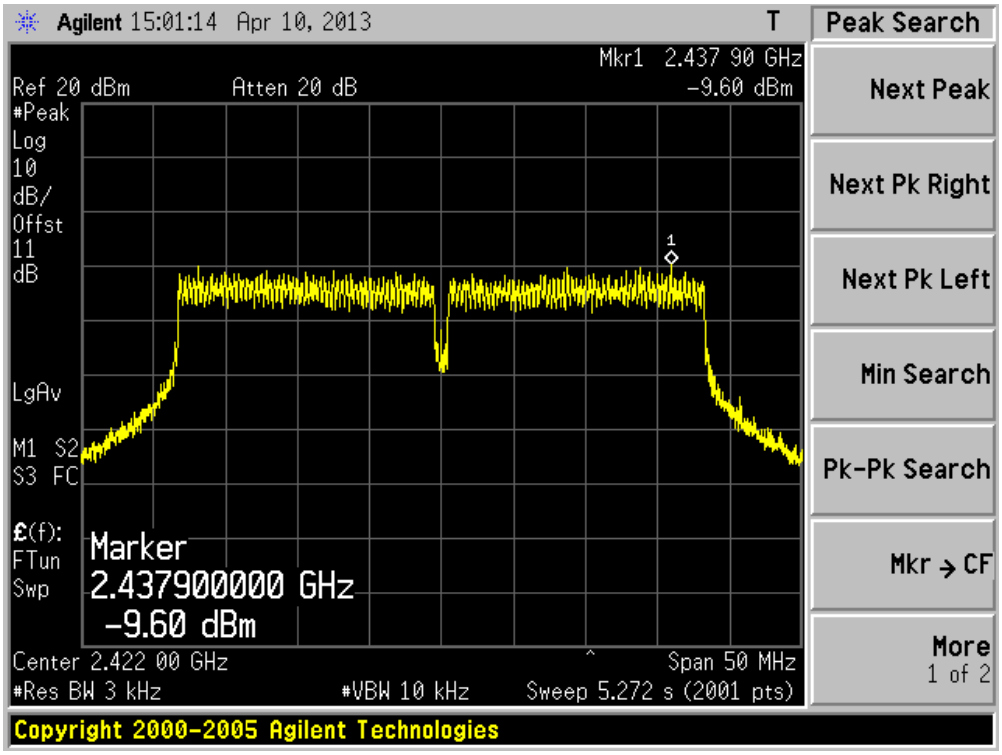
**Channel 165 (5825MHz)**



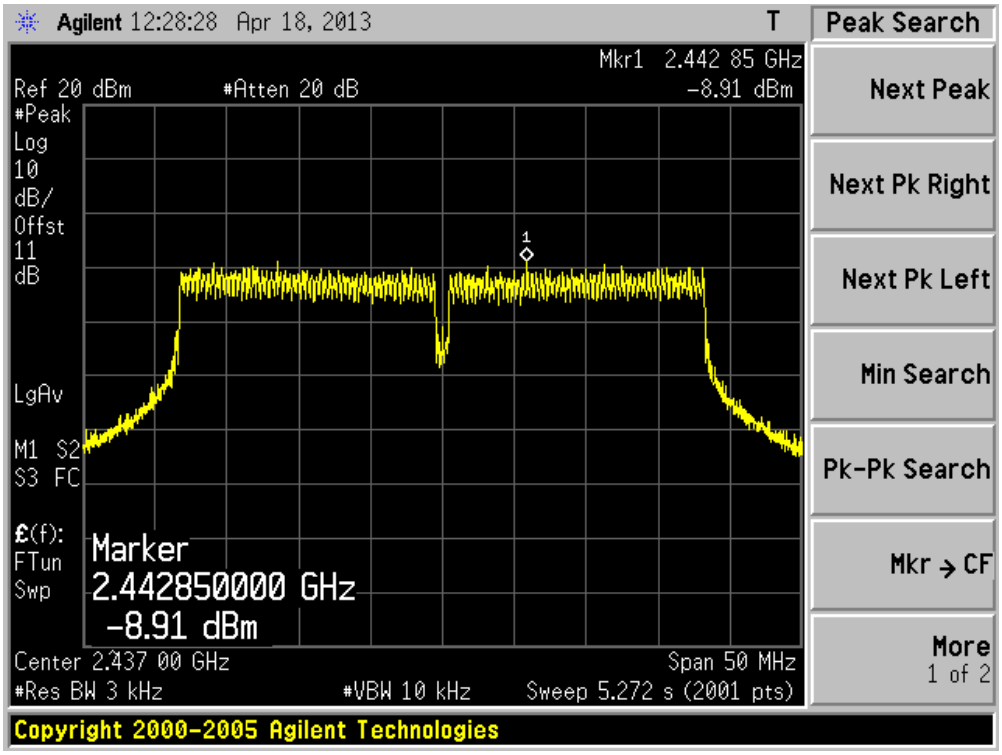
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 0) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 03 | 2422 | -9.60 | N/A | N/A | -9.60 | 8 | Pass |
| 06 | 2437 | -8.91 | N/A | N/A | -8.91 | 8 | Pass |
| 09 | 2452 | -10.10 | N/A | N/A | -10.10 | 8 | Pass |
| 151 | 5755 | -16.77 | N/A | N/A | -16.77 | 8 | Pass |
| 159 | 5795 | -13.62 | N/A | N/A | -13.62 | 8 | Pass |

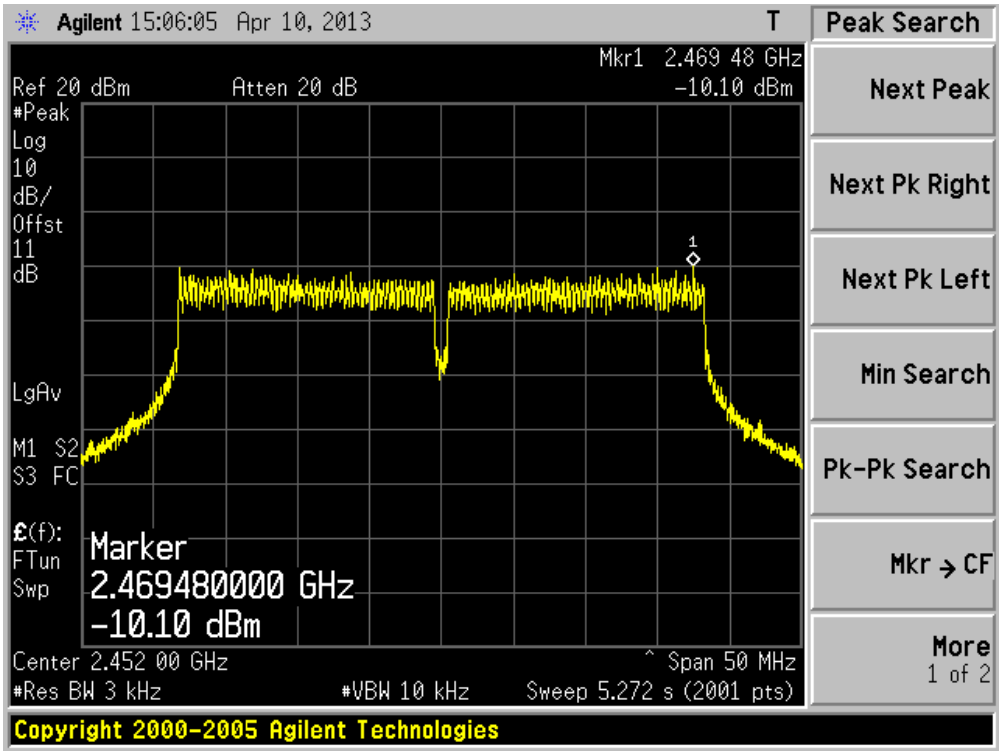
**Channel 03 (2422MHz)**



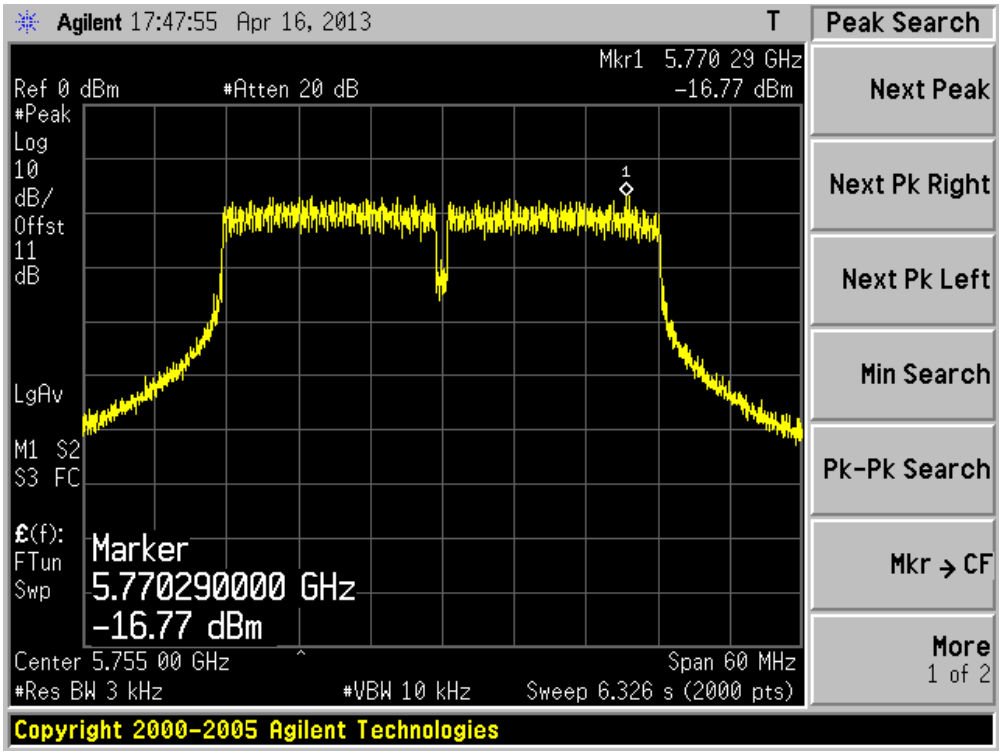
**Channel 06 (2437MHz)**



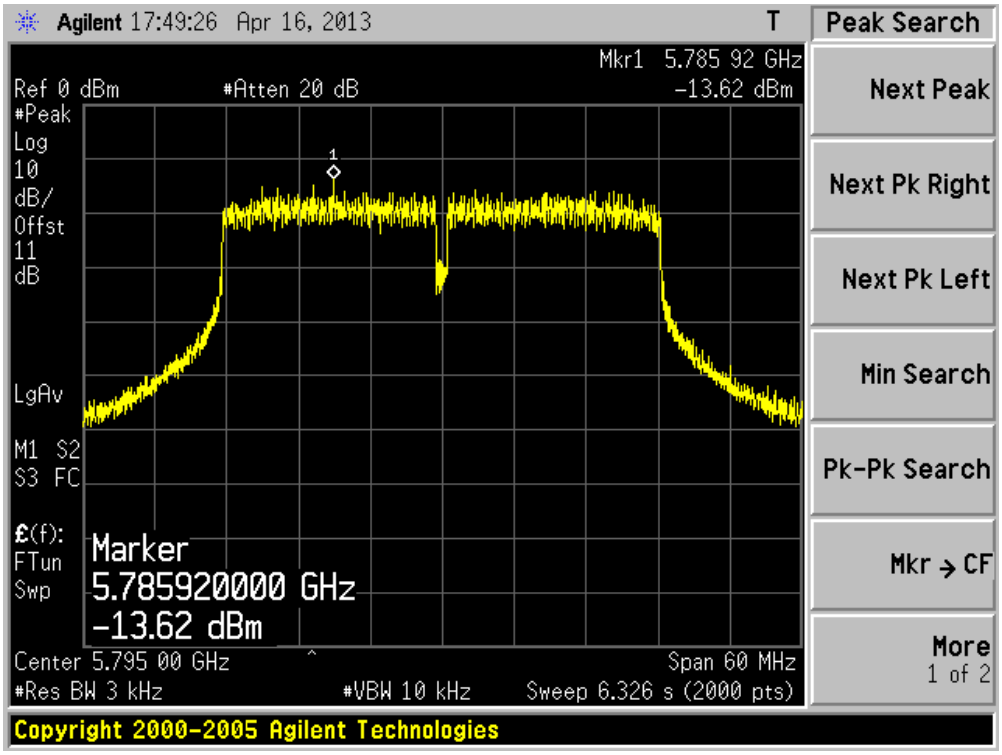

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**



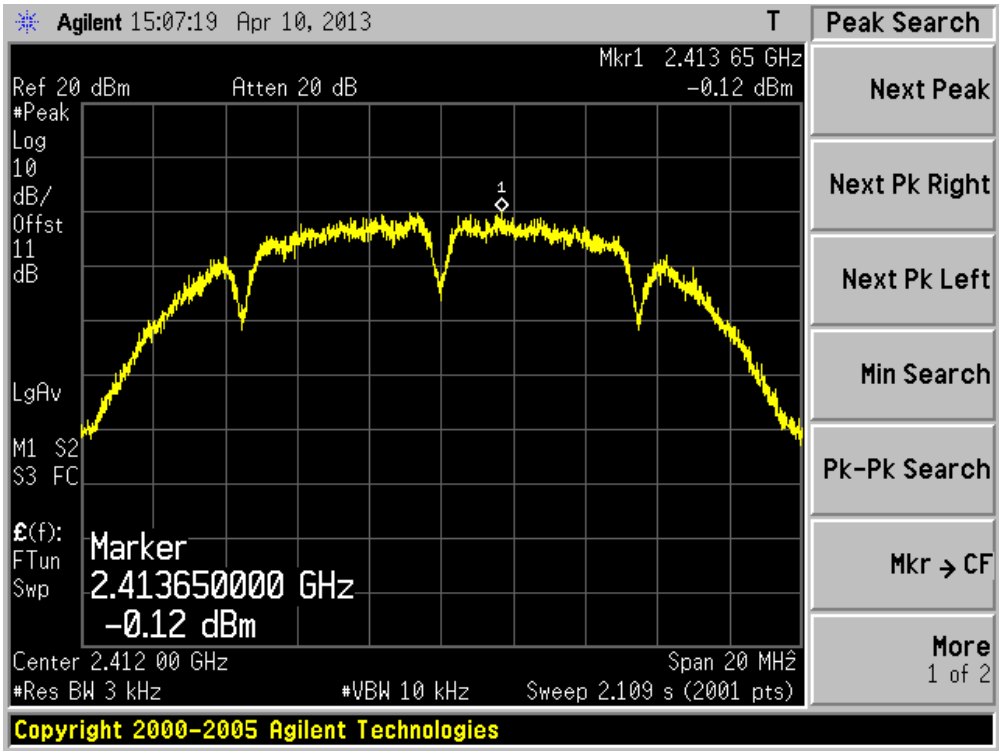

**Channel 159 (5795MHz)**



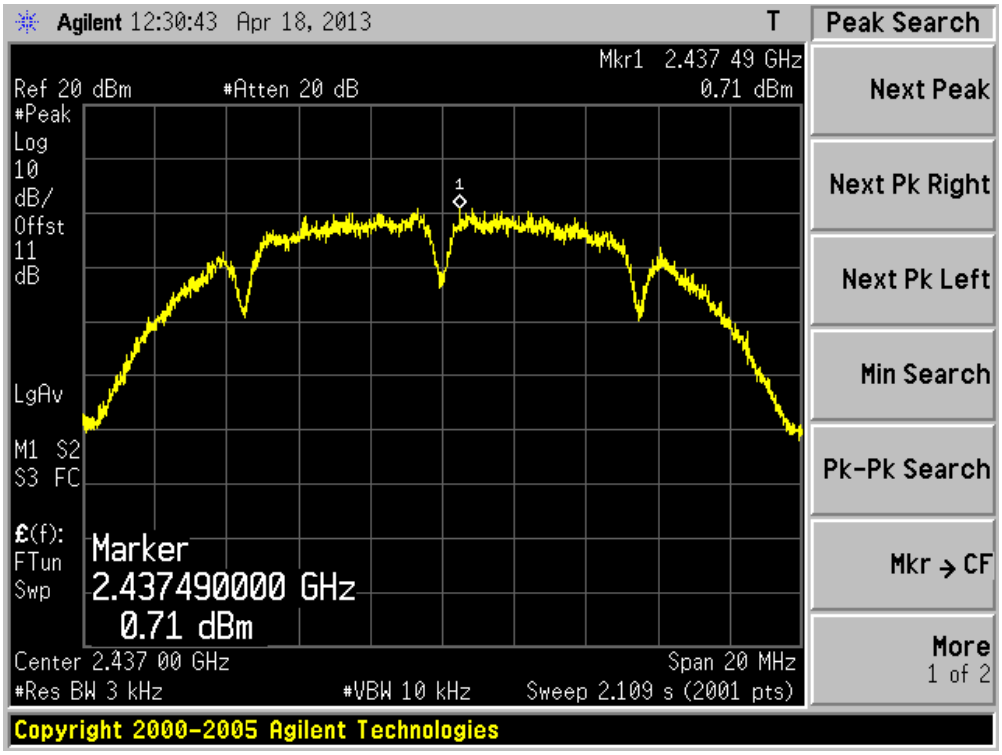
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | N/A | -0.12 | N/A | -0.12 | 8 | Pass |
| 06 | 2437 | N/A | 0.71 | N/A | 0.71 | 8 | Pass |
| 11 | 2462 | N/A | 1.93 | N/A | 1.93 | 8 | Pass |

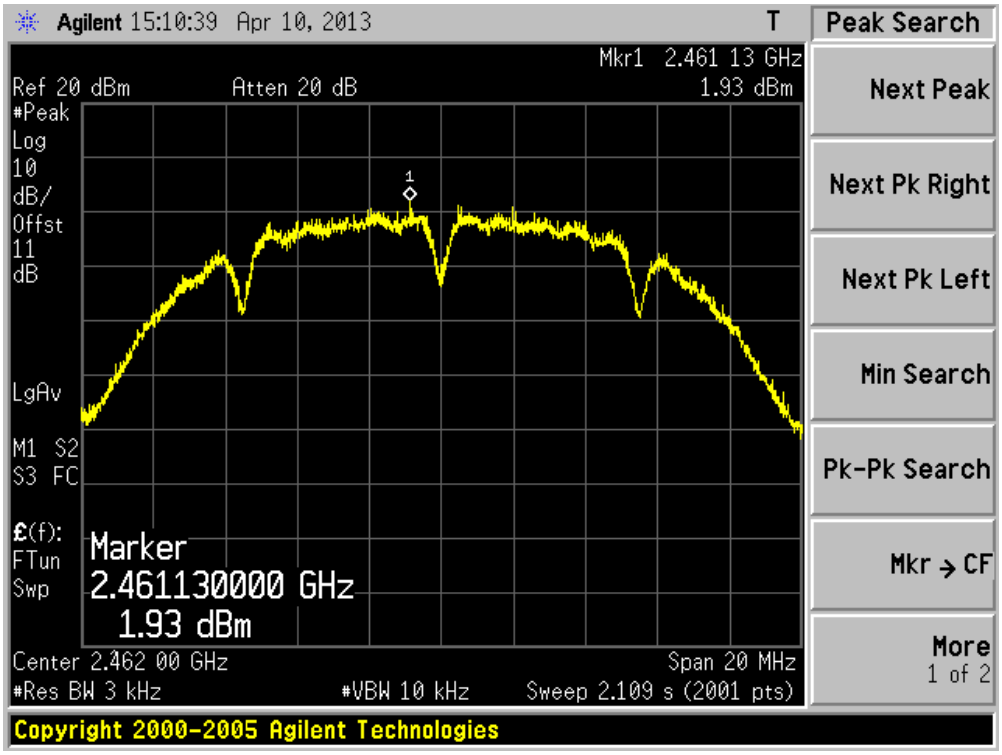
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



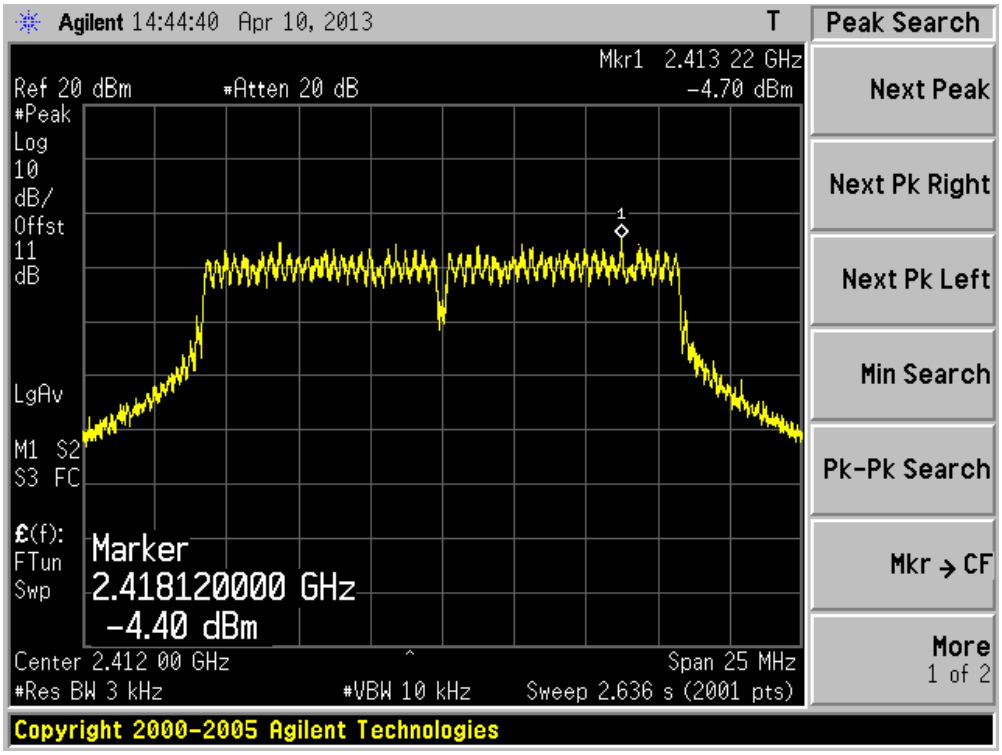

**Channel 11 (2462MHz)**



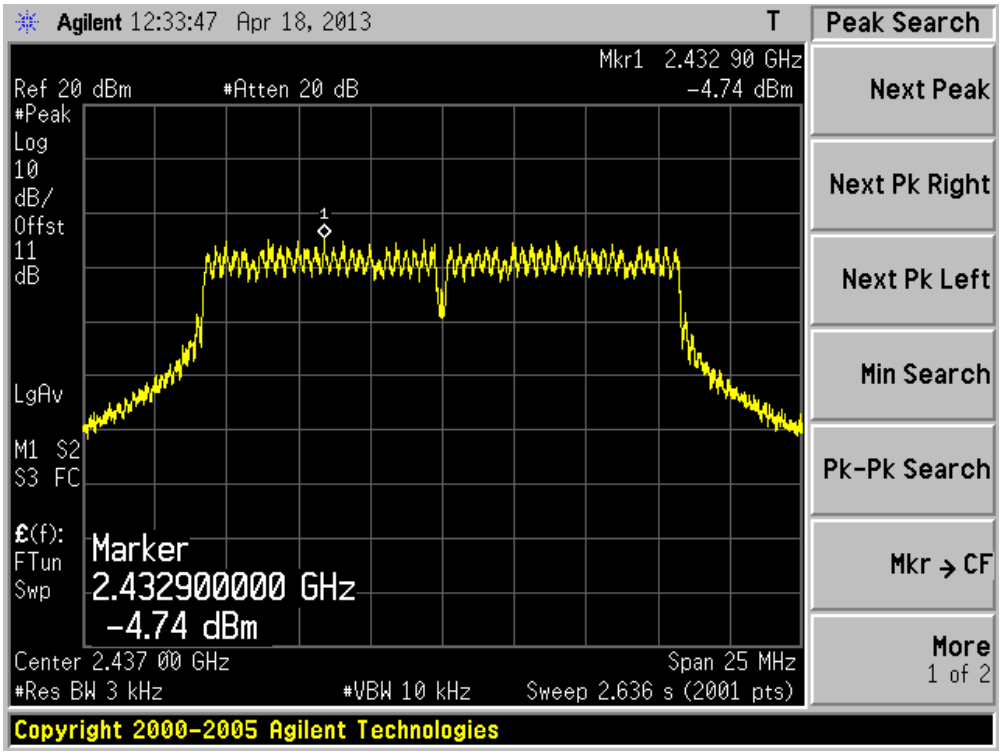
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | N/A | -4.40 | N/A | -4.40 | 8 | Pass |
| 06 | 2437 | N/A | -4.74 | N/A | -4.74 | 8 | Pass |
| 11 | 2462 | N/A | -4.56 | N/A | -4.56 | 8 | Pass |

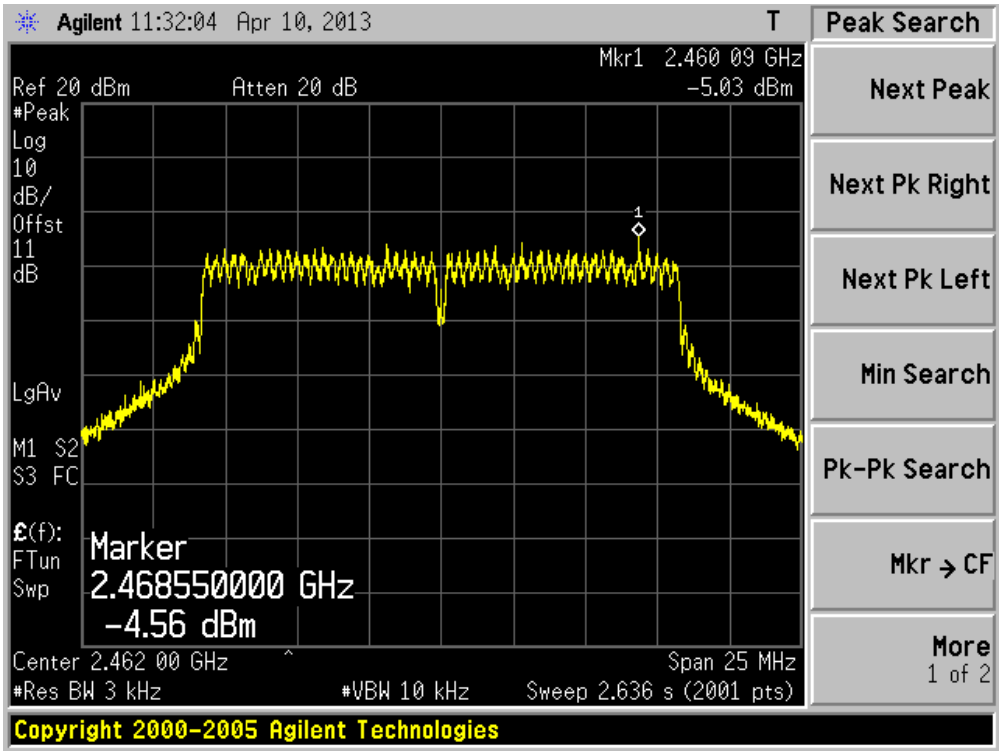
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



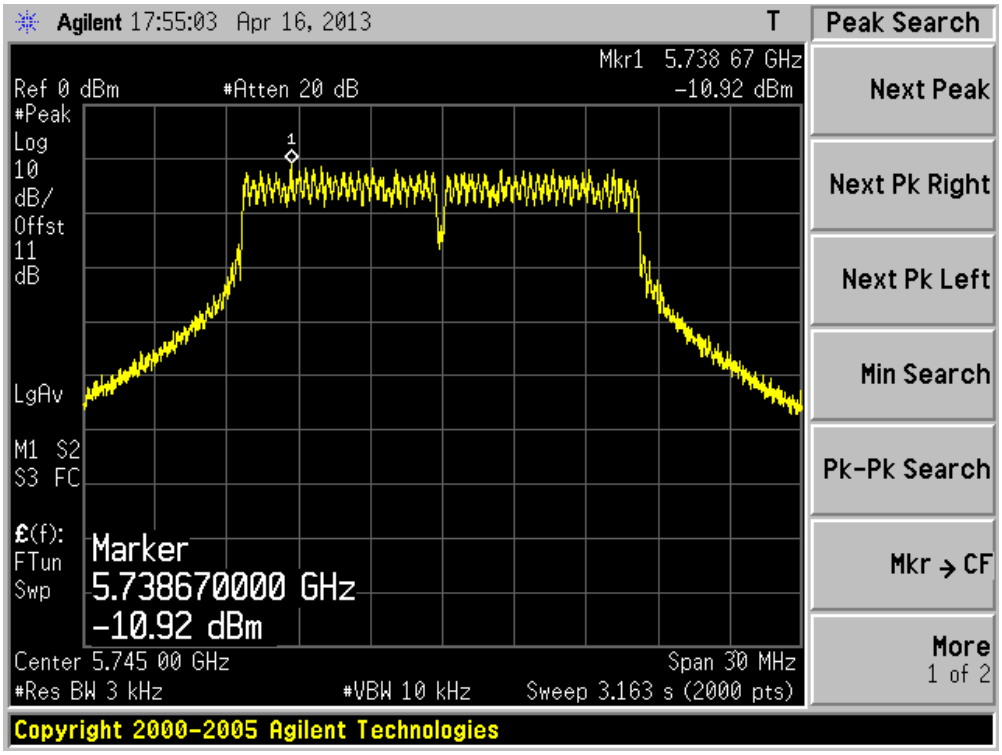

**Channel 11 (2462MHz)**



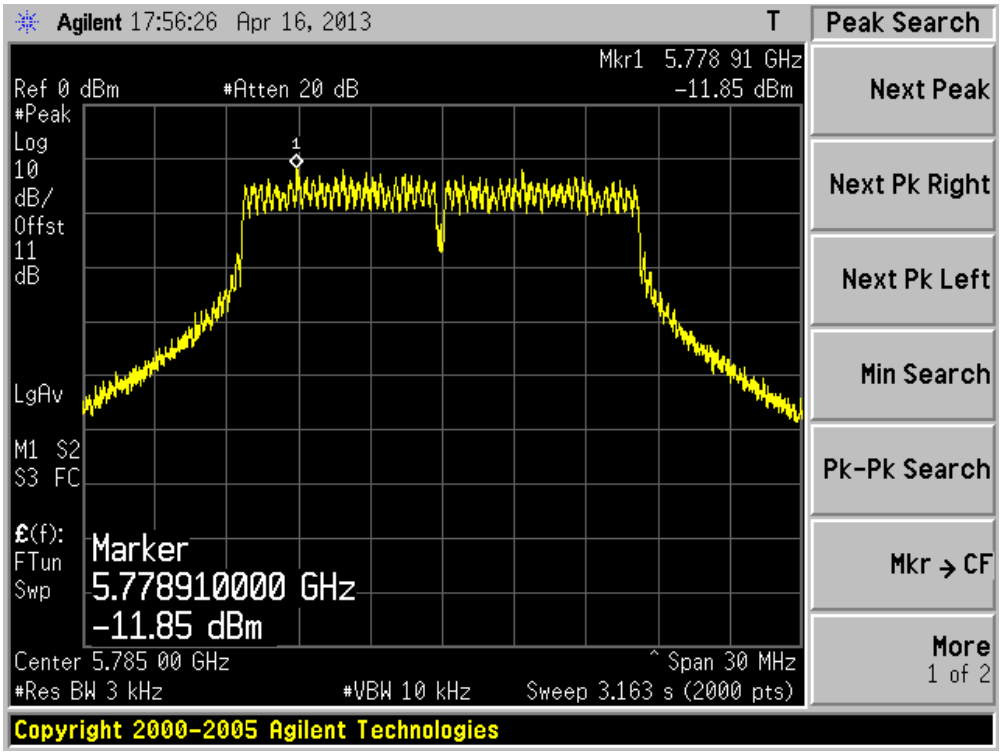
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 149 | 5745 | N/A | -10.92 | N/A | -10.92 | 8 | Pass |
| 157 | 5785 | N/A | -11.85 | N/A | -11.85 | 8 | Pass |
| 165 | 5825 | N/A | -12.72 | N/A | -12.72 | 8 | Pass |

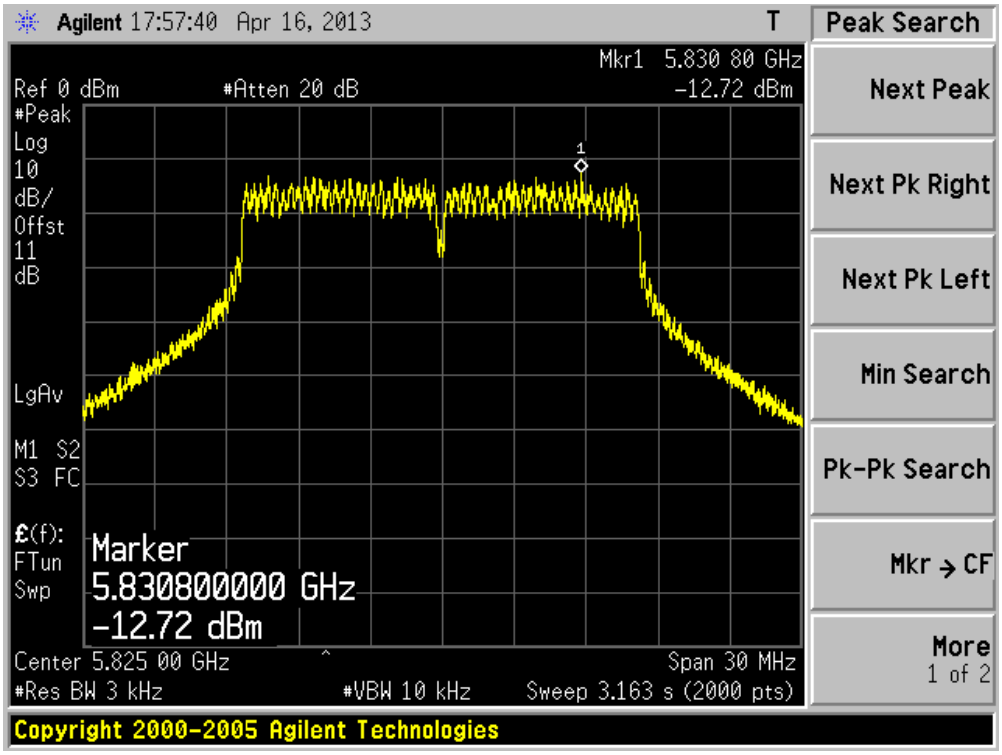
**Channel 149 (5745MHz)**



**Channel 157 (5785MHz)**



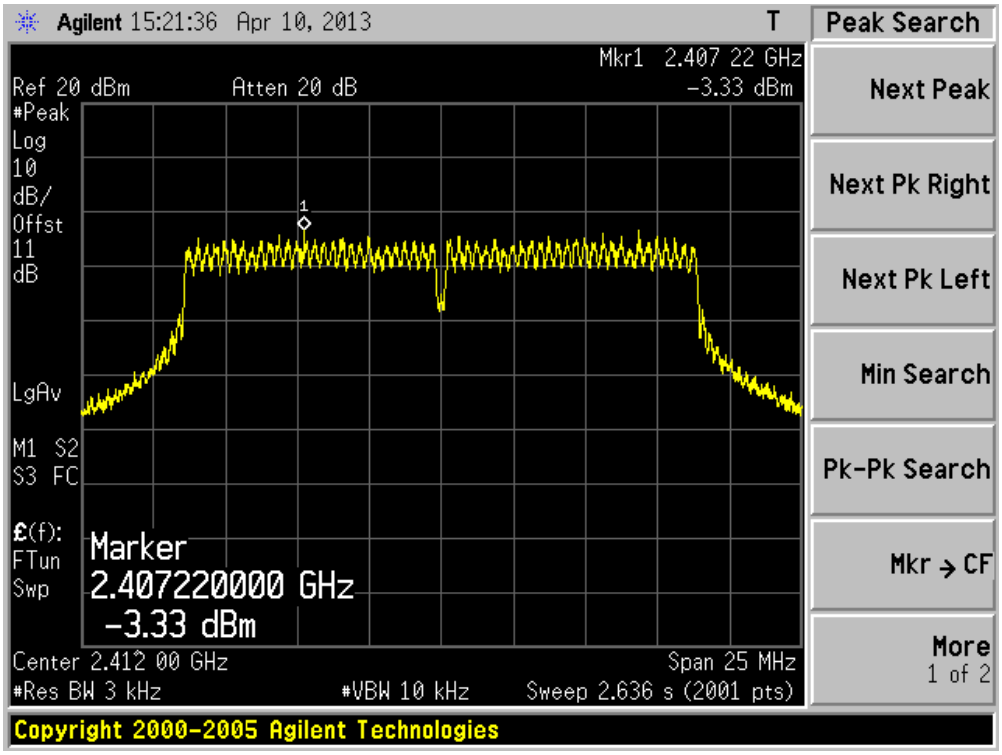

**Channel 165 (5825MHz)**



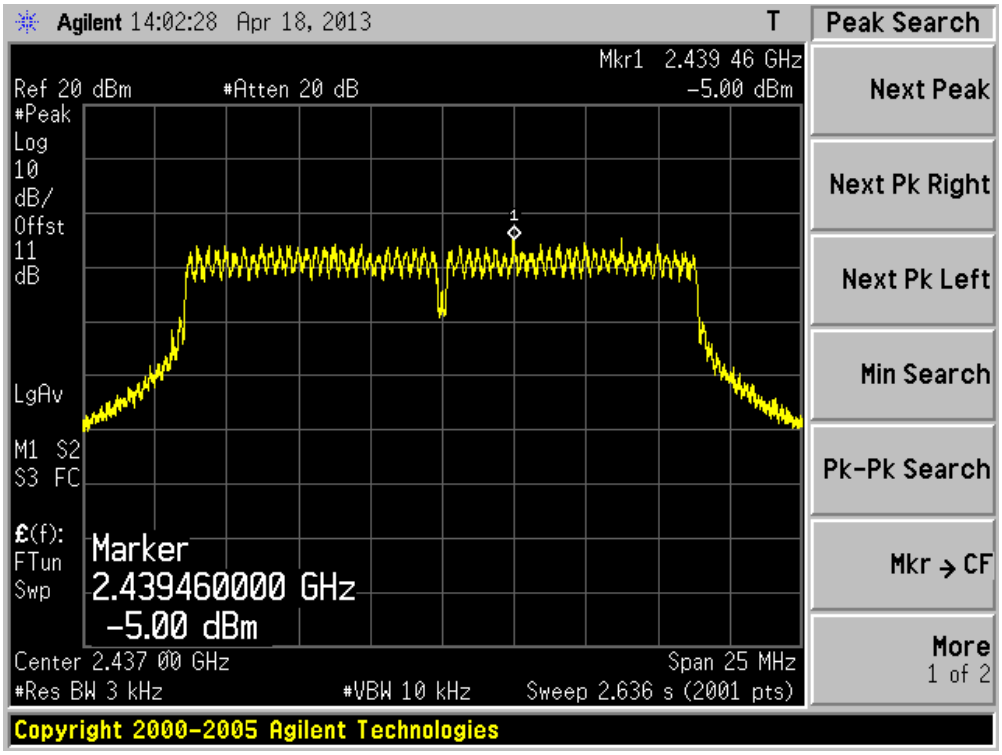
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | N/A | -3.33 | N/A | -3.33 | 8 | Pass |
| 06 | 2437 | N/A | -5.00 | N/A | -5.00 | 8 | Pass |
| 11 | 2462 | N/A | -4.59 | N/A | -4.59 | 8 | Pass |
| 149 | 5745 | N/A | -12.83 | N/A | -12.83 | 8 | Pass |
| 157 | 5785 | N/A | -13.65 | N/A | -13.65 | 8 | Pass |
| 165 | 5825 | N/A | -13.65 | N/A | -13.65 | 8 | Pass |

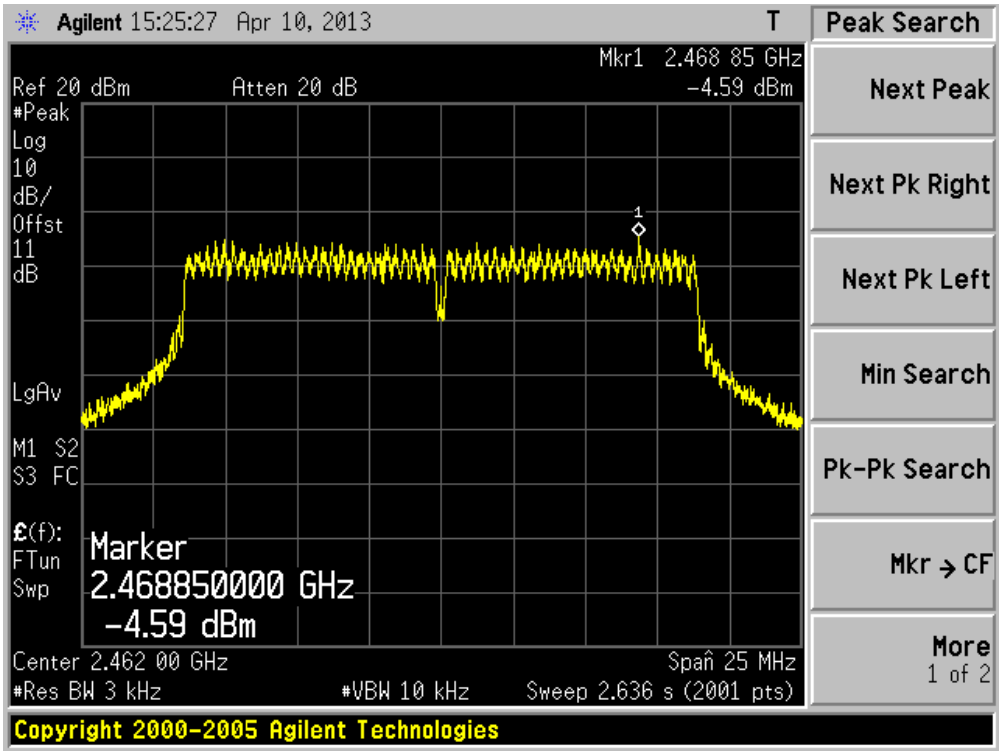
**Channel 01 (2412MHz)**



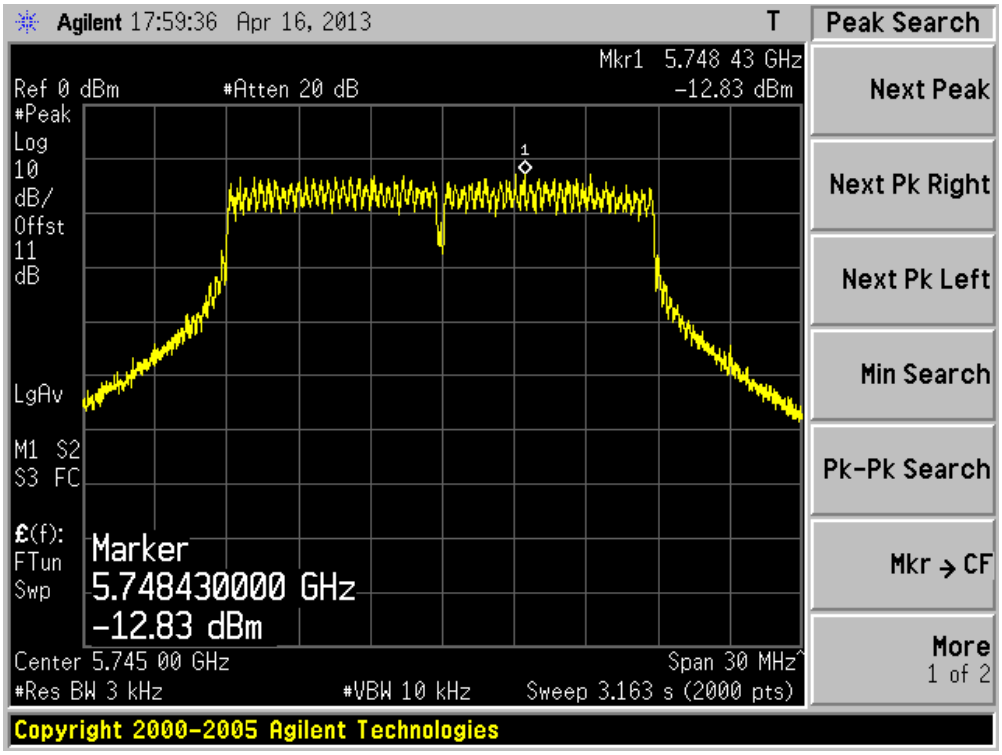
**Channel 06 (2437MHz)**



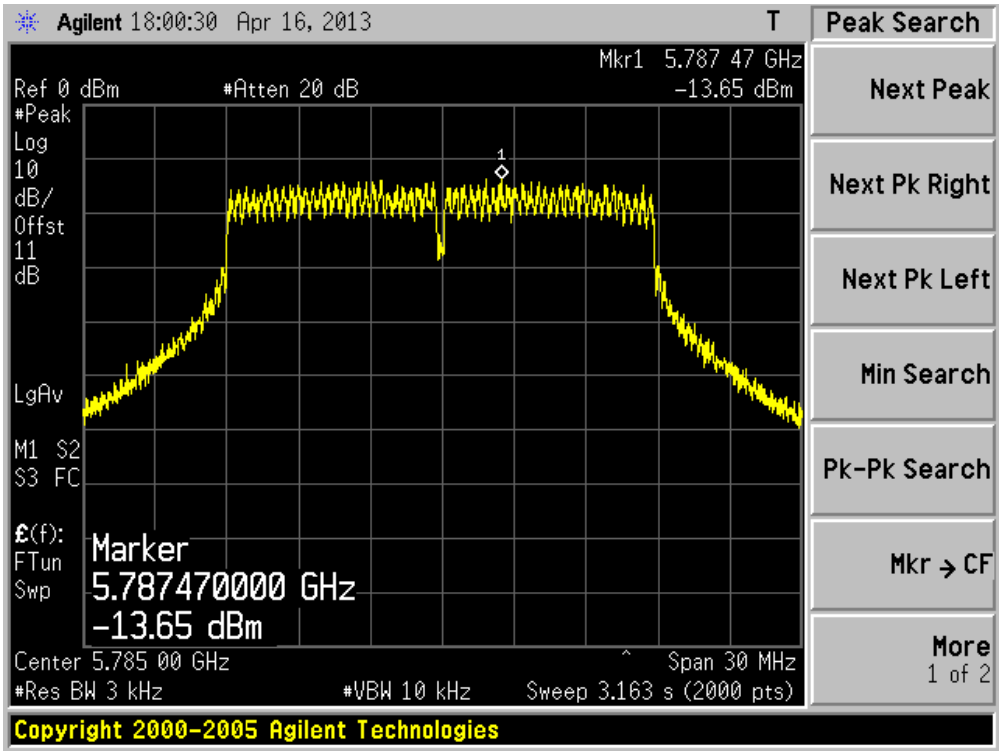

**Channel 11 (2462MHz)**



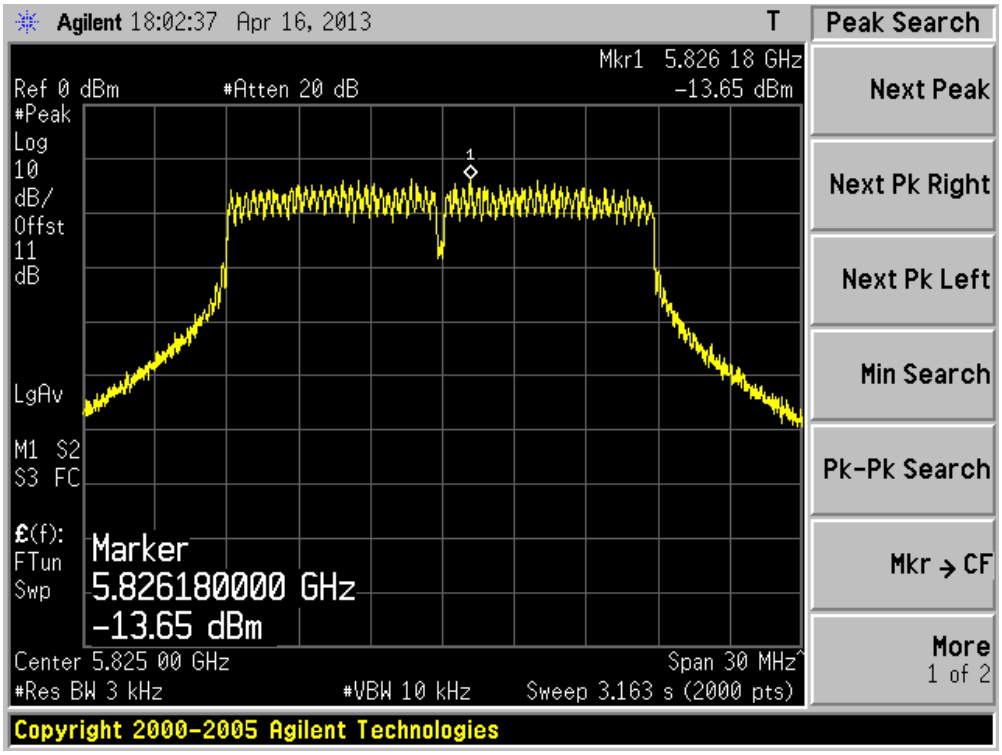
**Channel 149 (5745MHz)**




**Channel 157 (5785MHz)**



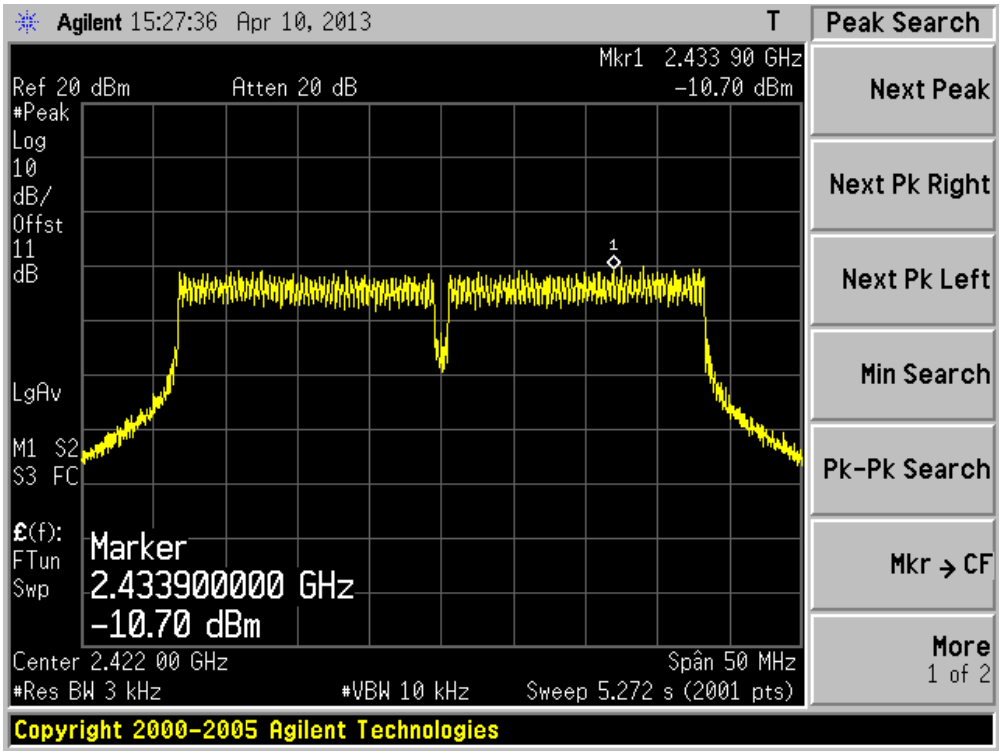
**Channel 165 (5825MHz)**



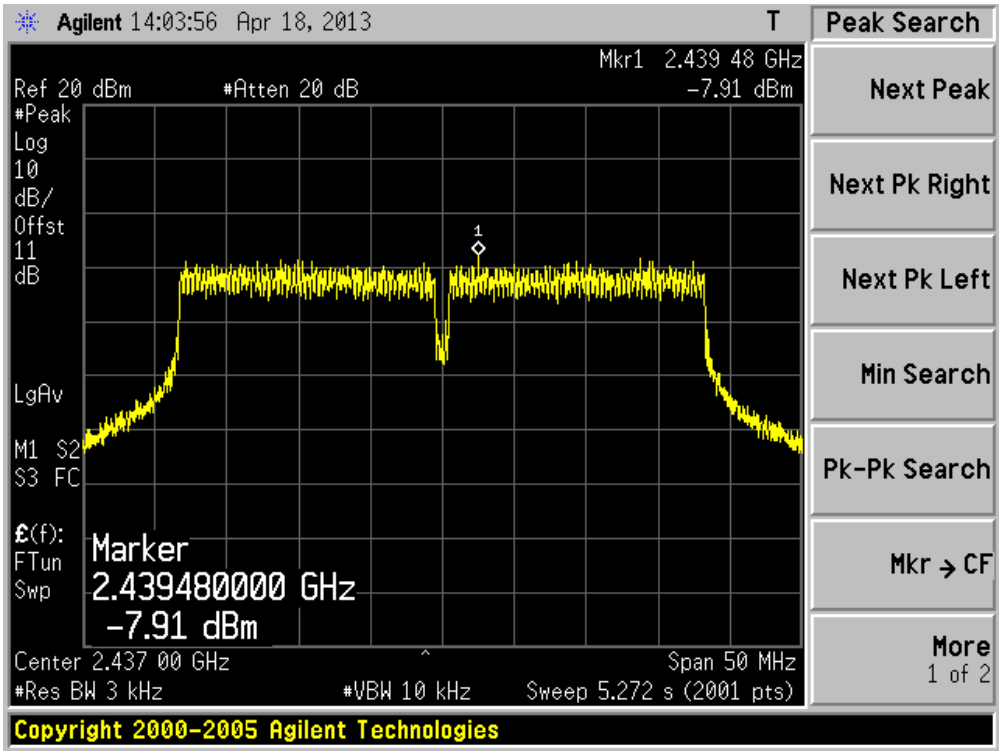
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 03 | 2422 | N/A | -10.70 | N/A | -10.70 | 8 | Pass |
| 06 | 2437 | N/A | -7.91 | N/A | -7.91 | 8 | Pass |
| 09 | 2452 | N/A | -7.78 | N/A | -7.78 | 8 | Pass |
| 151 | 5755 | N/A | -11.81 | N/A | -11.81 | 8 | Pass |
| 159 | 5795 | N/A | -11.06 | N/A | -11.06 | 8 | Pass |

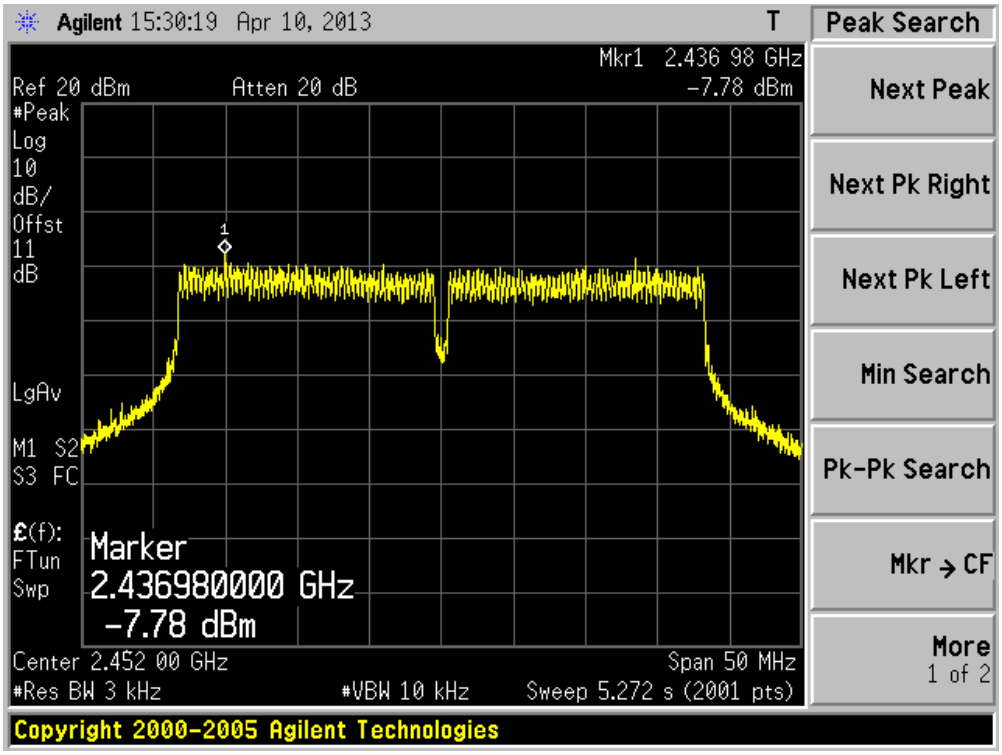
**Channel 03 (2422MHz)**



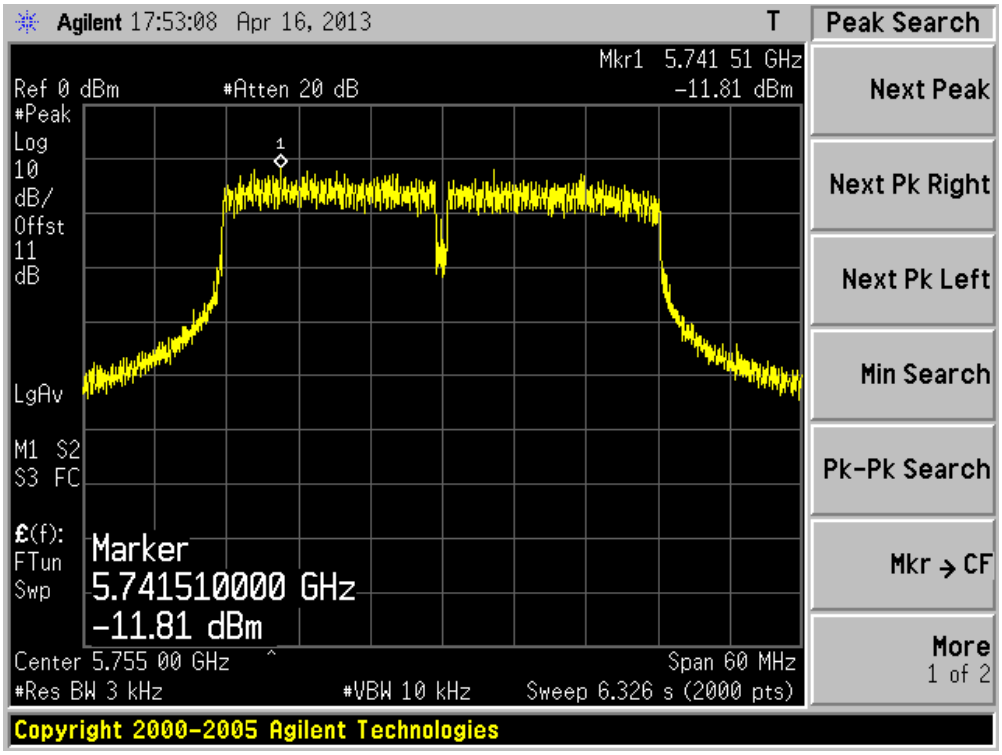
**Channel 06 (2437MHz)**



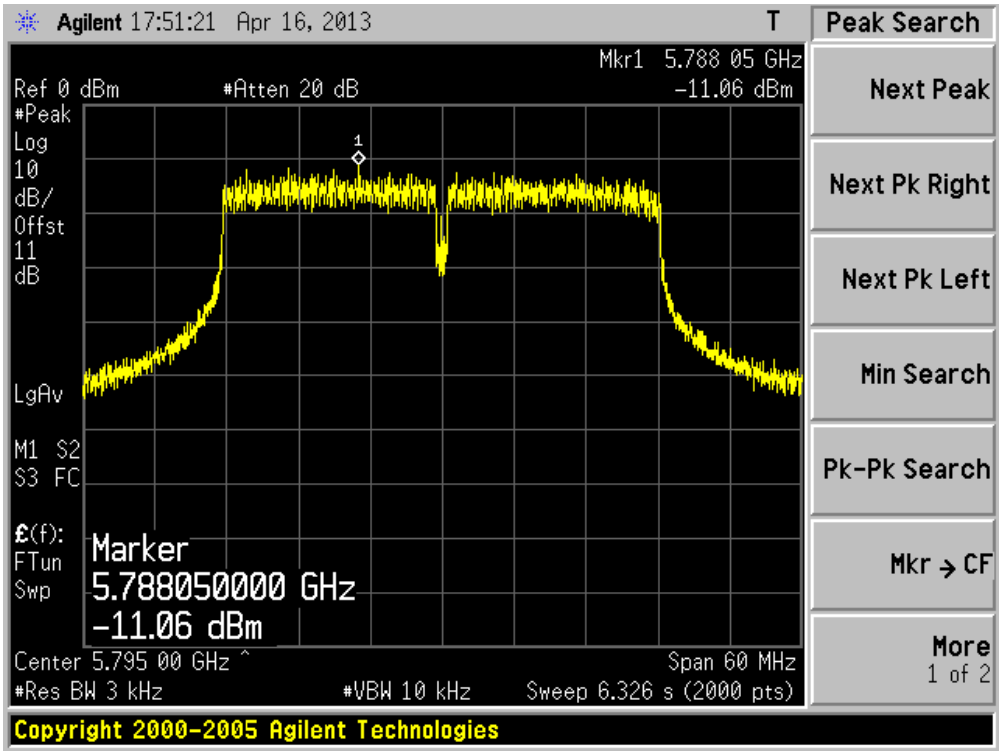

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**



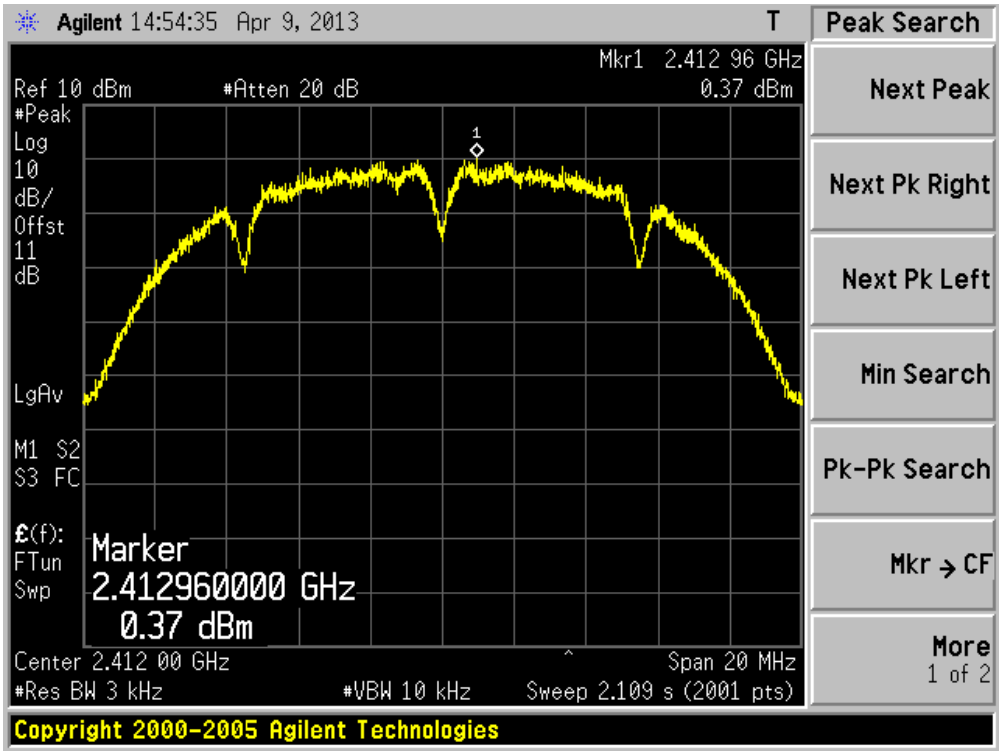

**Channel 159 (5795MHz)**



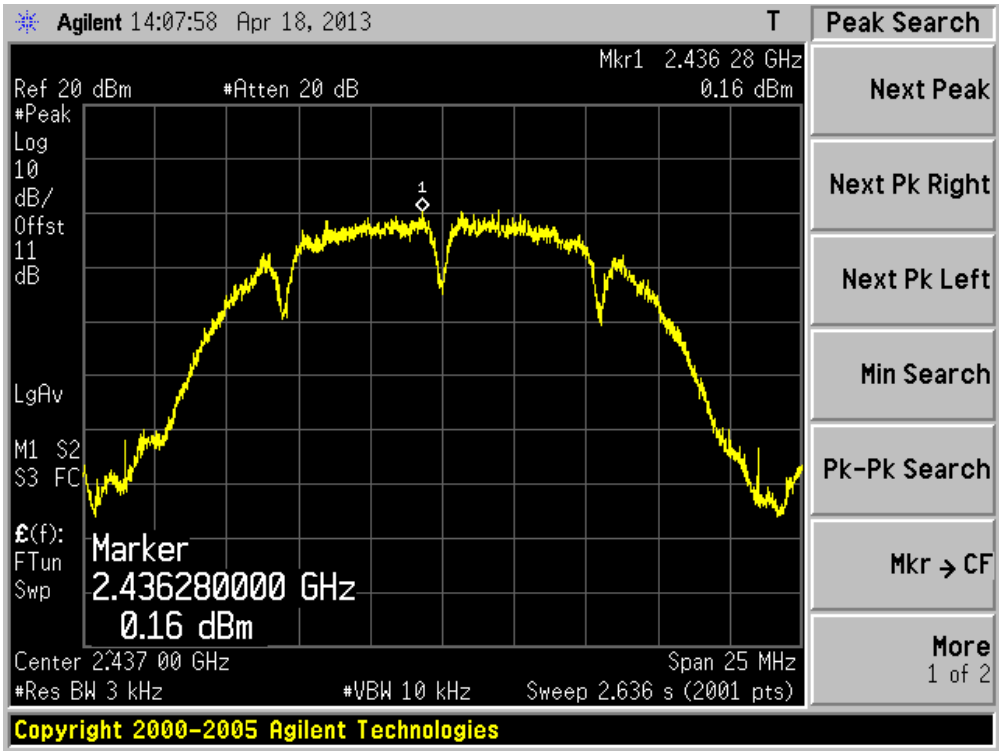
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11b (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | N/A | N/A | 0.37 | 0.37 | 8 | Pass |
| 06 | 2437 | N/A | N/A | 0.16 | 0.16 | 8 | Pass |
| 11 | 2462 | N/A | N/A | 0.38 | 0.38 | 8 | Pass |

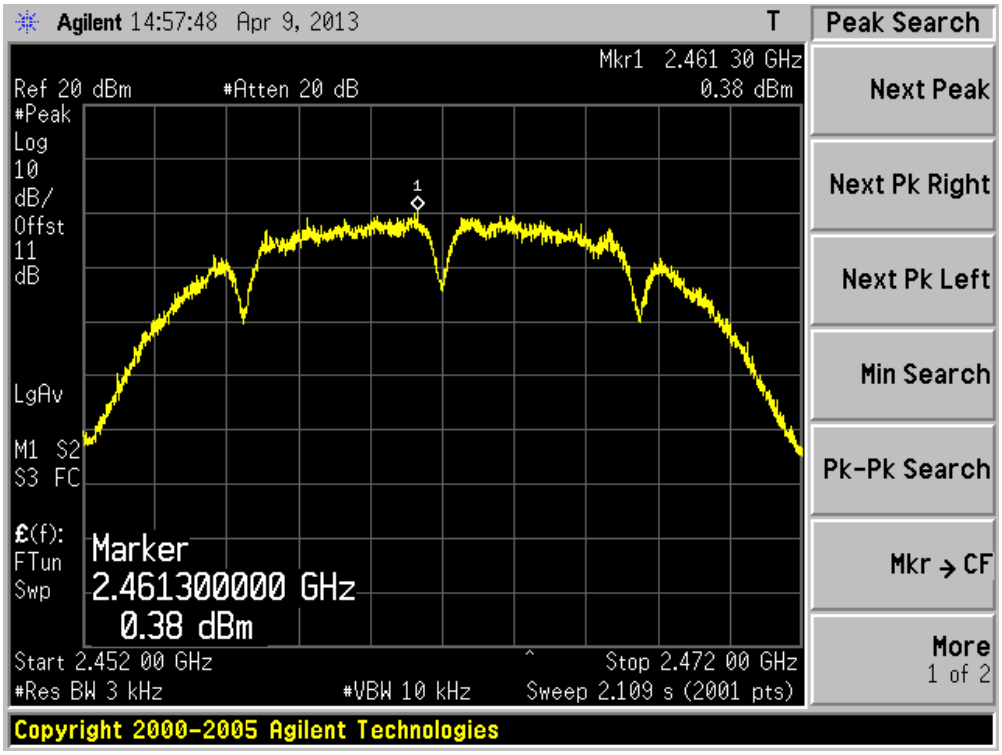
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



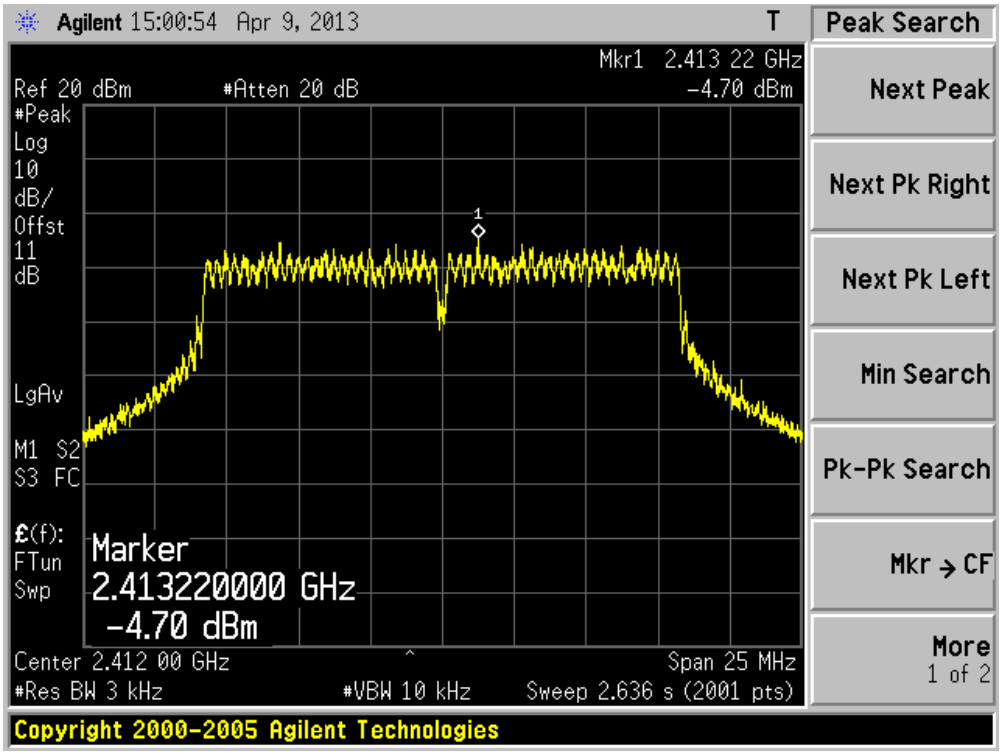

**Channel 11 (2462MHz)**



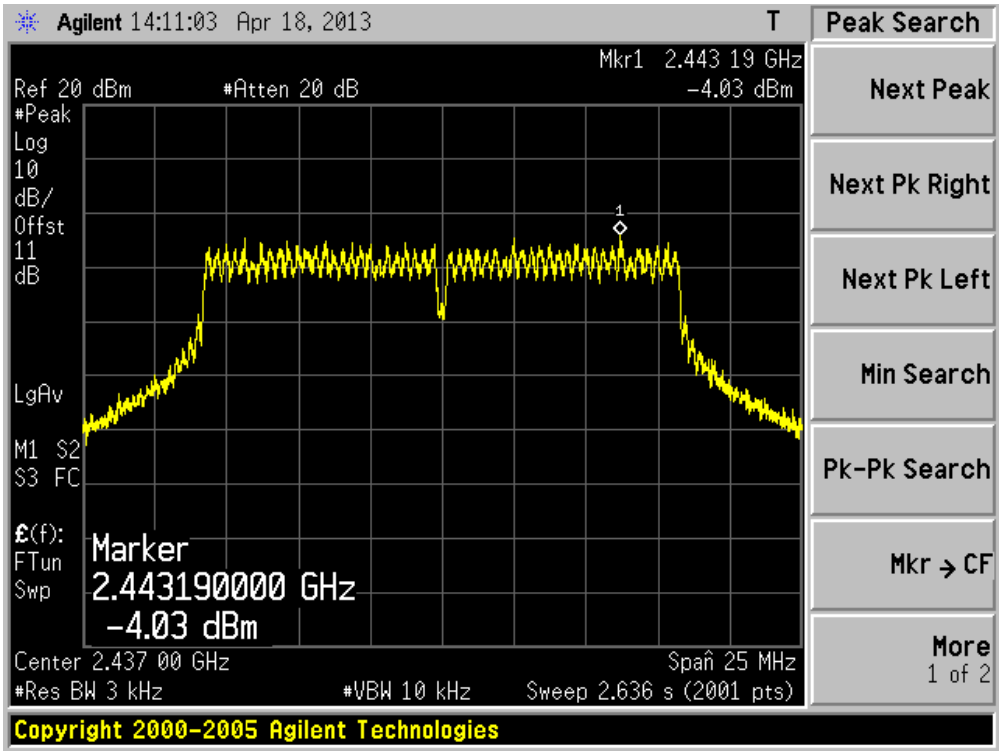
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11g (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2422 | N/A | N/A | -4.70 | -4.70 | 8 | Pass |
| 06 | 2437 | N/A | N/A | -4.03 | -4.03 | 8 | Pass |
| 11 | 2452 | N/A | N/A | -5.03 | -5.03 | 8 | Pass |

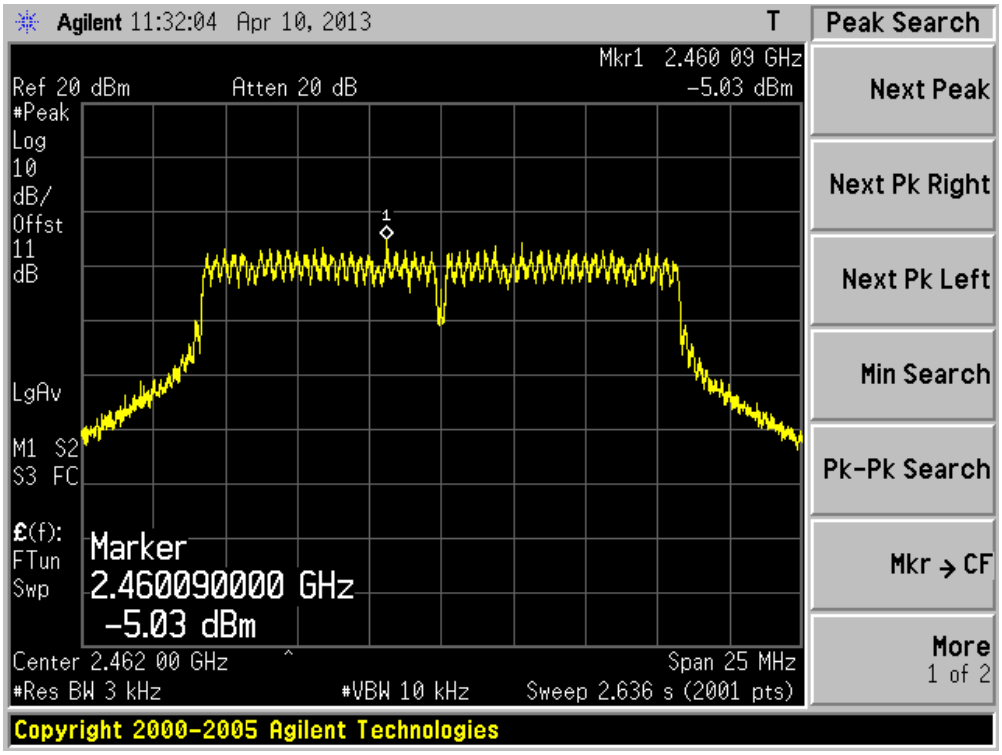
**Channel 01 (2412MHz)**



**Channel 06 (2437MHz)**



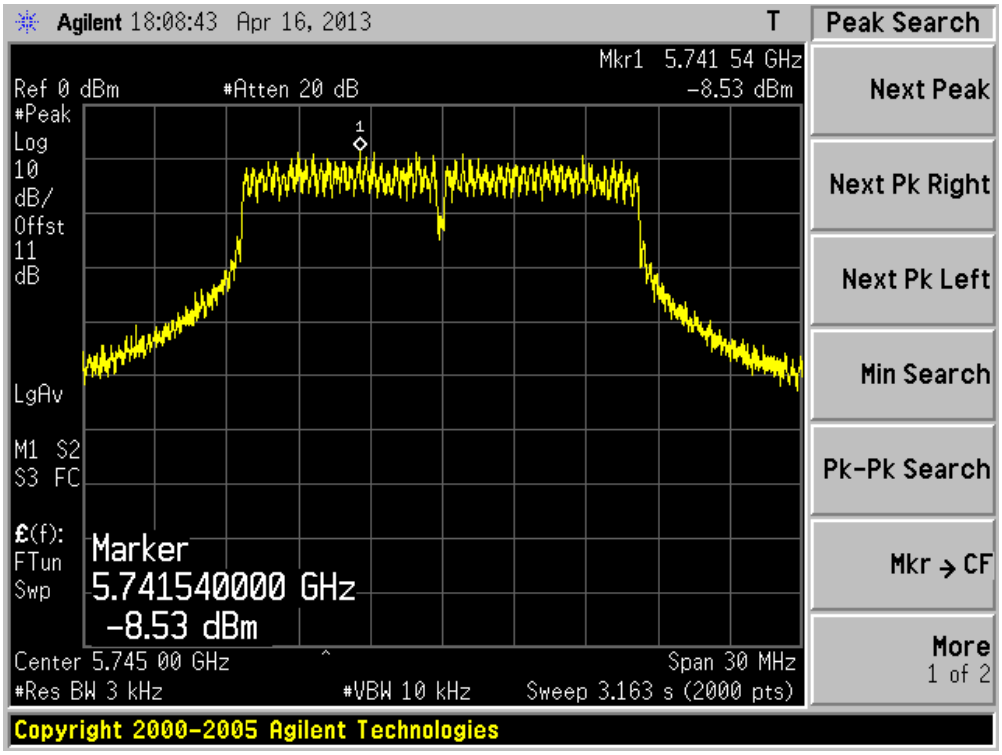

**Channel 11 (2462MHz)**



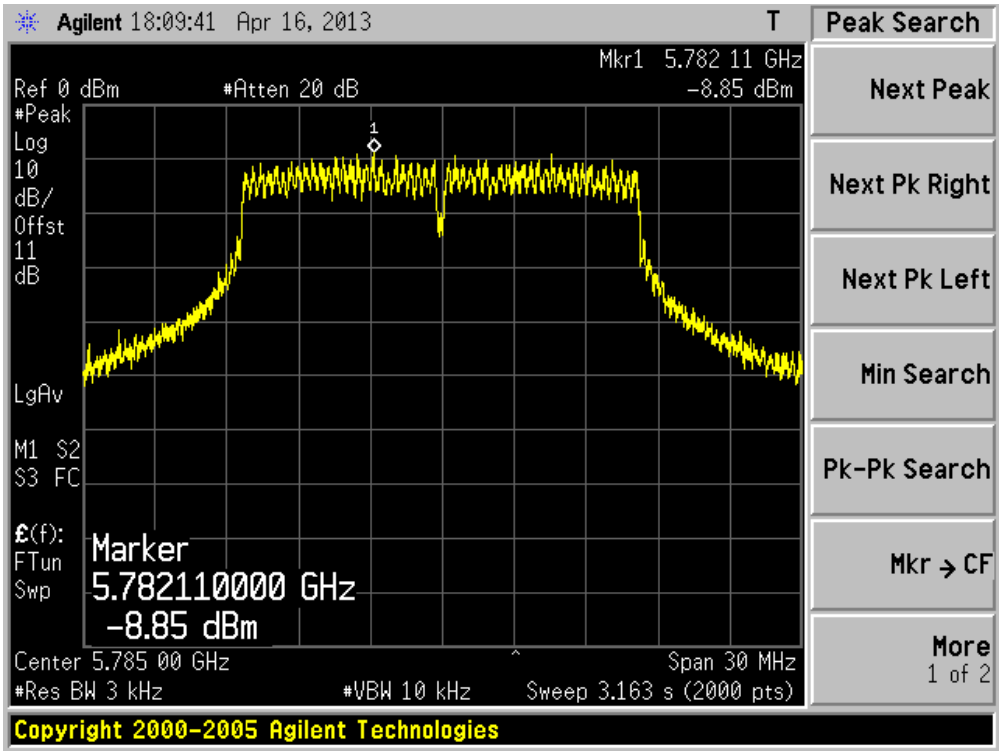
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11a (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 149 | 5745 | N/A | N/A | -8.53 | -8.53 | 8 | Pass |
| 157 | 5785 | N/A | N/A | -8.85 | -8.85 | 8 | Pass |
| 165 | 5825 | N/A | N/A | -10.12 | -10.12 | 8 | Pass |

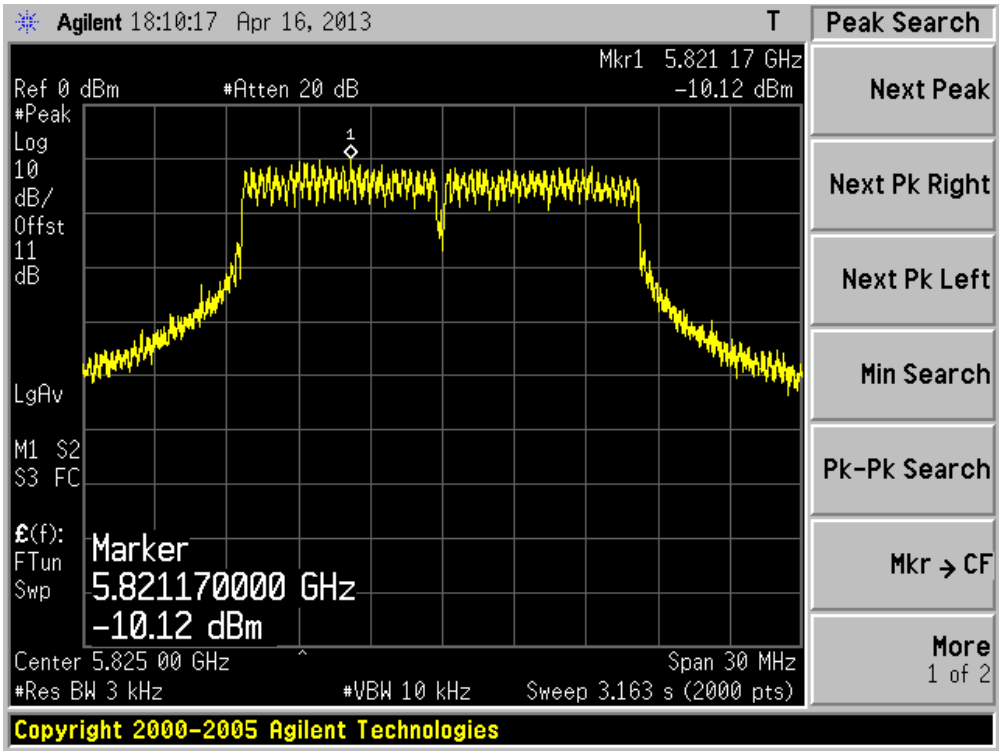
**Channel 149 (5745MHz)**



**Channel 157 (5785MHz)**



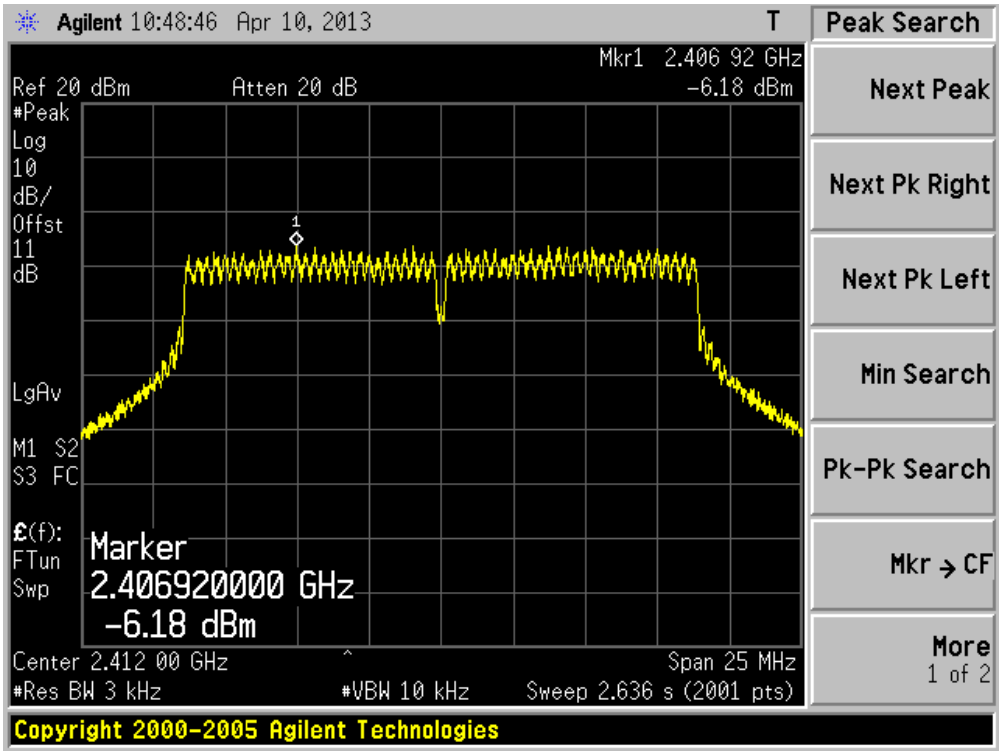

**Channel 165 (5825MHz)**



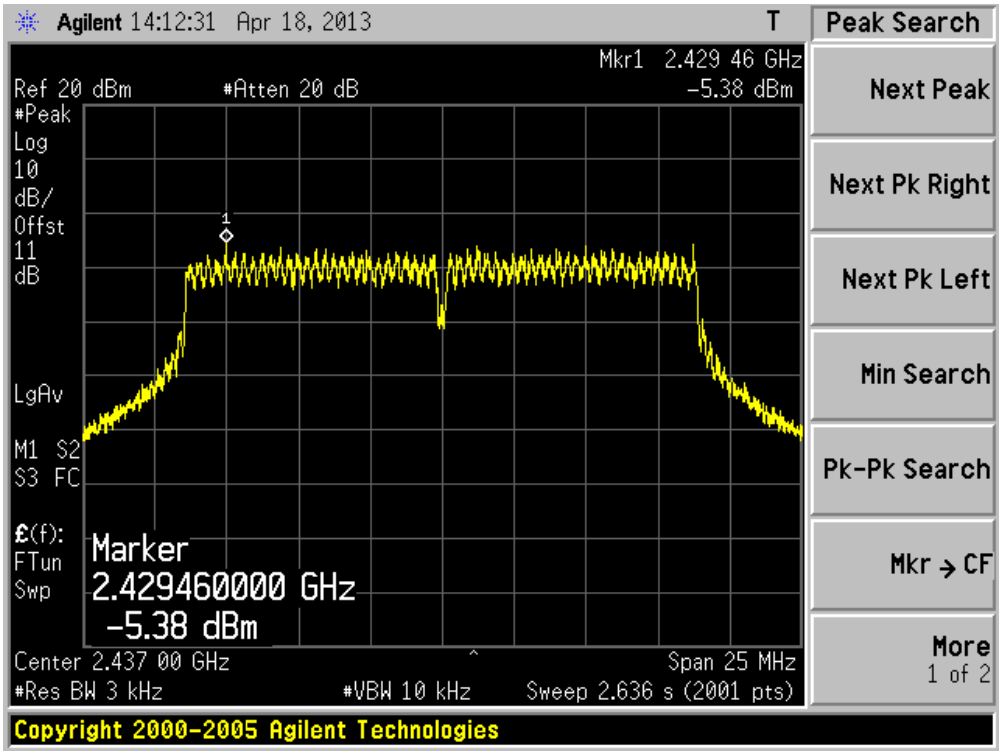
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | N/A | N/A | -6.18 | -6.18 | 8 | Pass |
| 06 | 2437 | N/A | N/A | -5.38 | -5.38 | 8 | Pass |
| 11 | 2462 | N/A | N/A | -6.97 | -6.97 | 8 | Pass |
| 149 | 5745 | N/A | N/A | -9.98 | -9.98 | 8 | Pass |
| 157 | 5785 | N/A | N/A | -10.36 | -10.36 | 8 | Pass |
| 165 | 5825 | N/A | N/A | -9.43 | -9.43 | 8 | Pass |

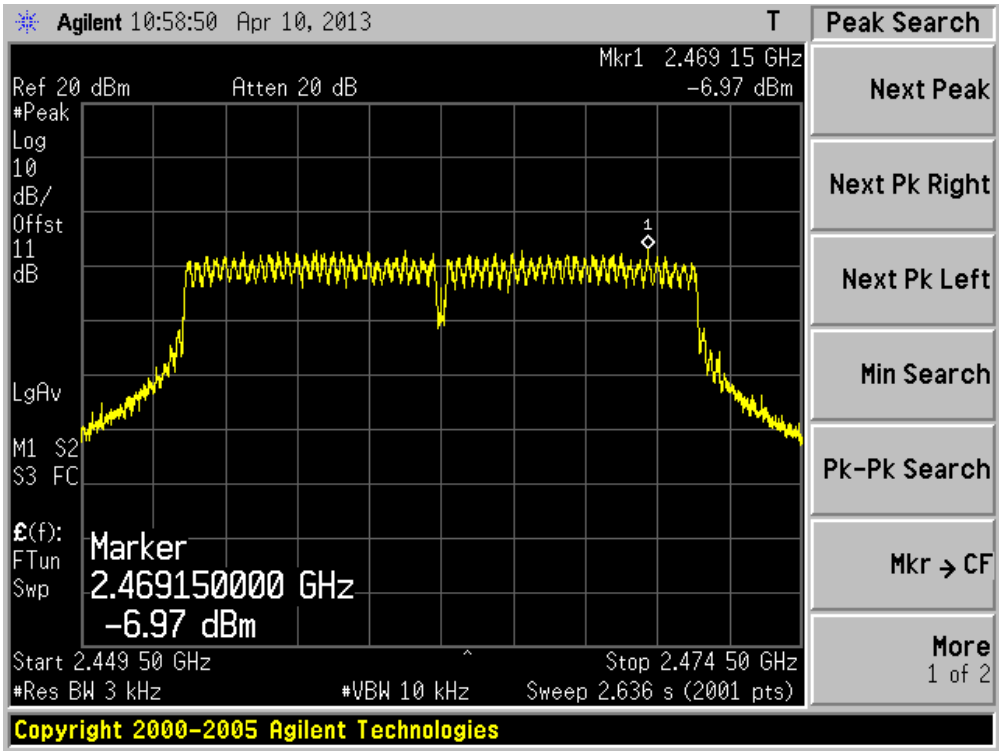
**Channel 01 (2412MHz)**



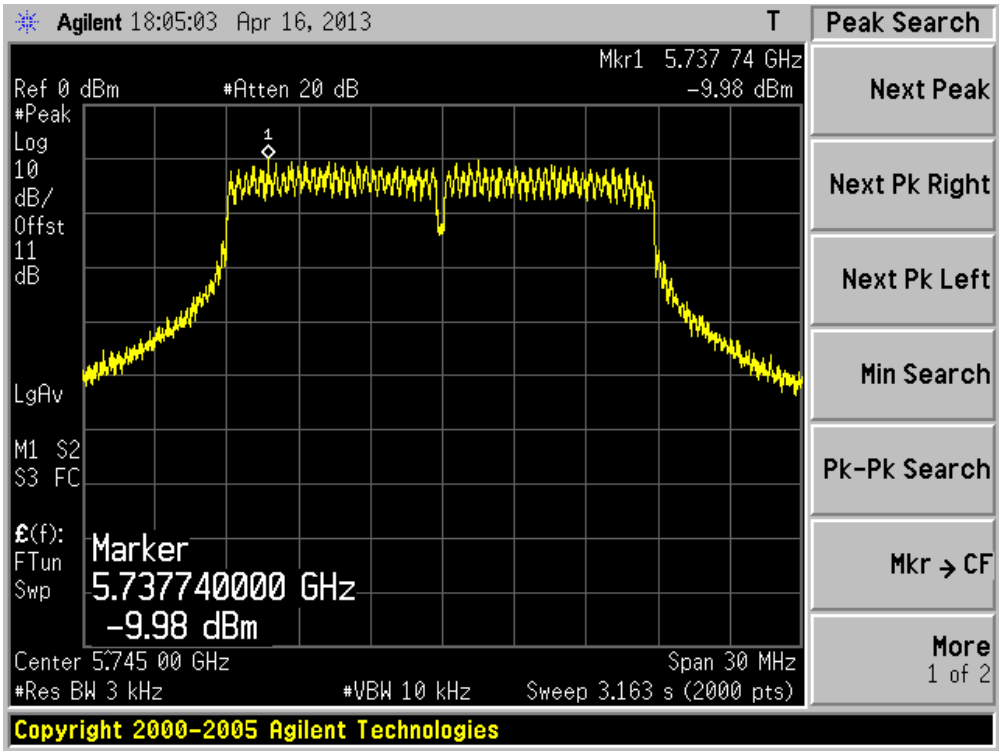
**Channel 06 (2437MHz)**



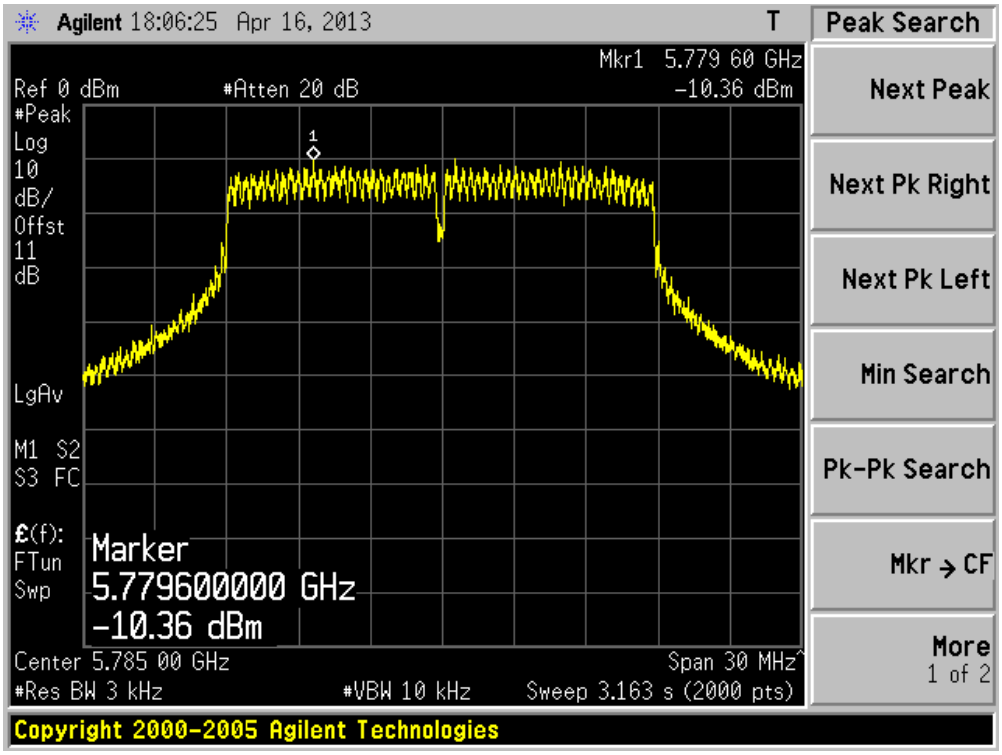

**Channel 11 (2462MHz)**



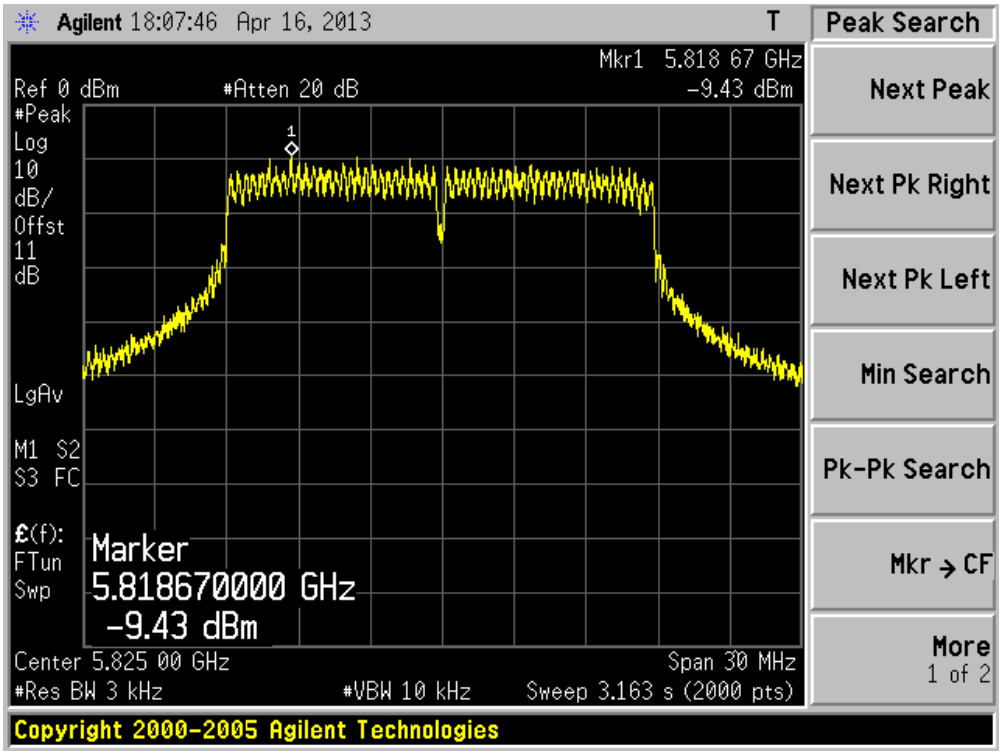
**Channel 149 (5745MHz)**




**Channel 157 (5785MHz)**



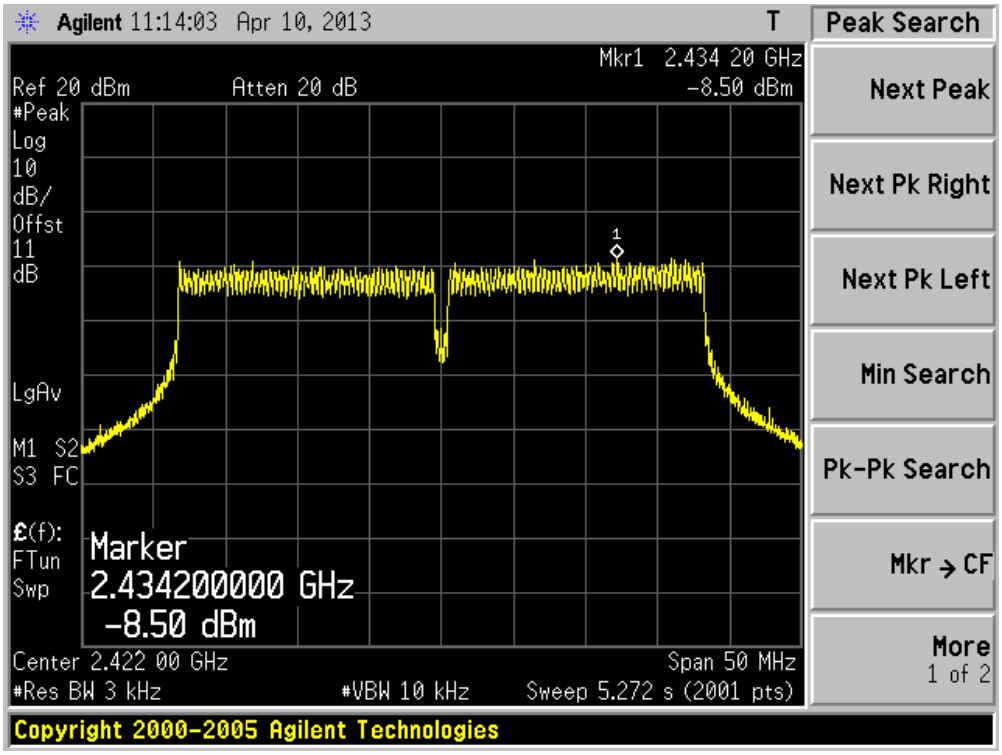
**Channel 165 (5825MHz)**



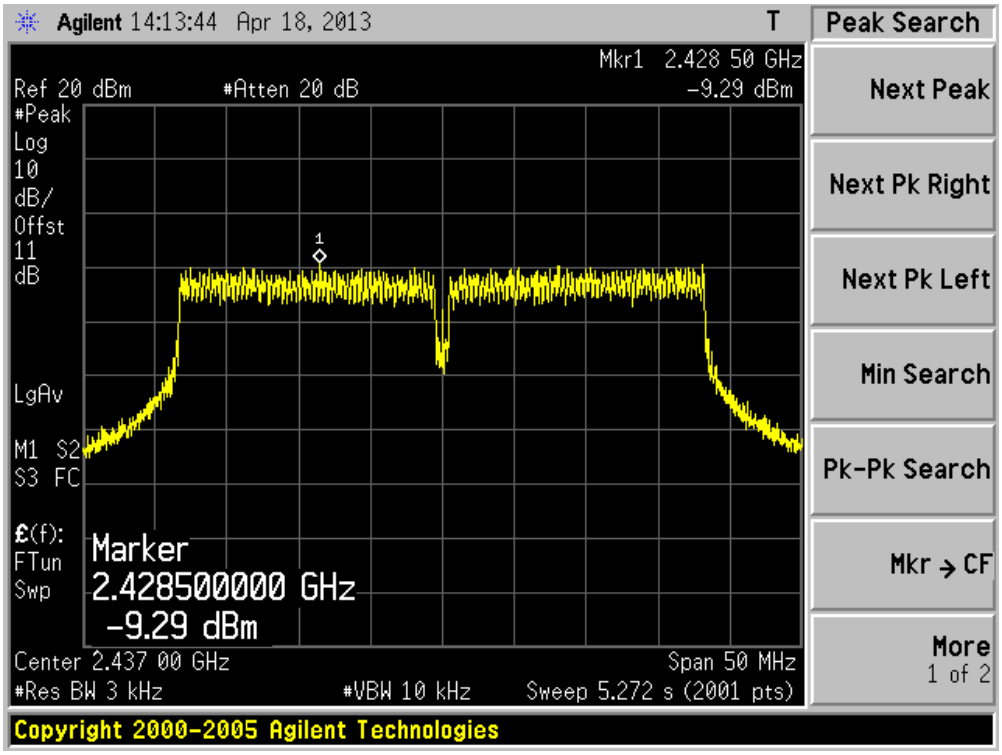
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 03 | 2412 | N/A | N/A | -8.50 | -8.50 | 8 | Pass |
| 06 | 2437 | N/A | N/A | -9.29 | -9.29 | 8 | Pass |
| 09 | 2462 | N/A | N/A | -9.99 | -9.99 | 8 | Pass |
| 151 | 5755 | N/A | N/A | -11.85 | -11.85 | 8 | Pass |
| 159 | 5795 | N/A | N/A | -11.37 | -11.37 | 8 | Pass |

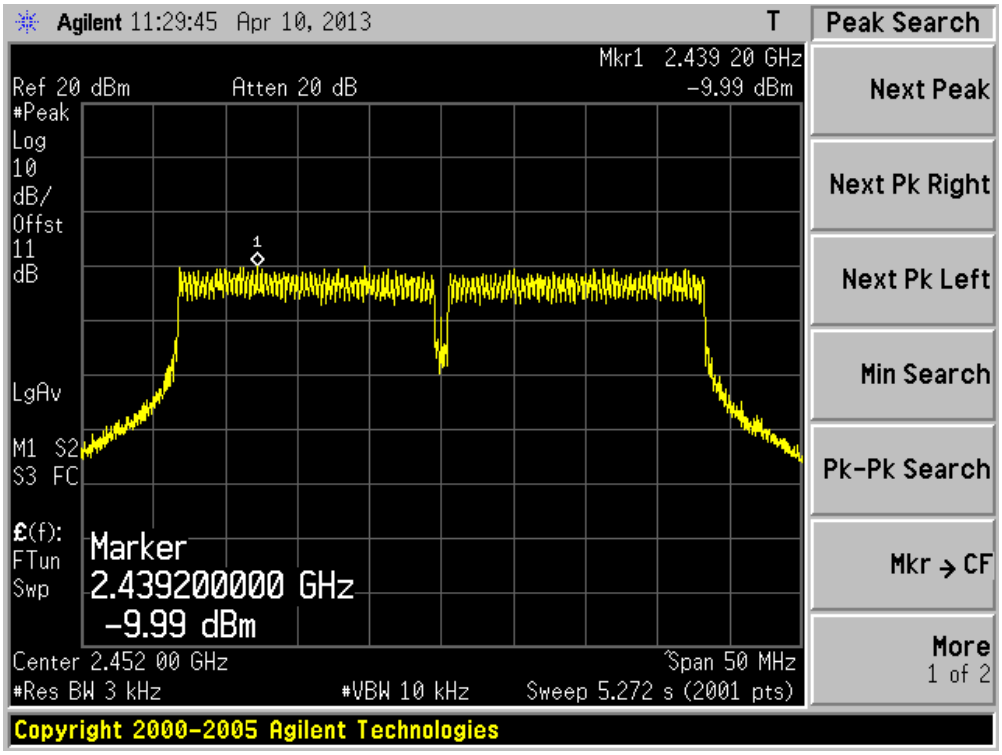
**Channel 03 (2422MHz)**



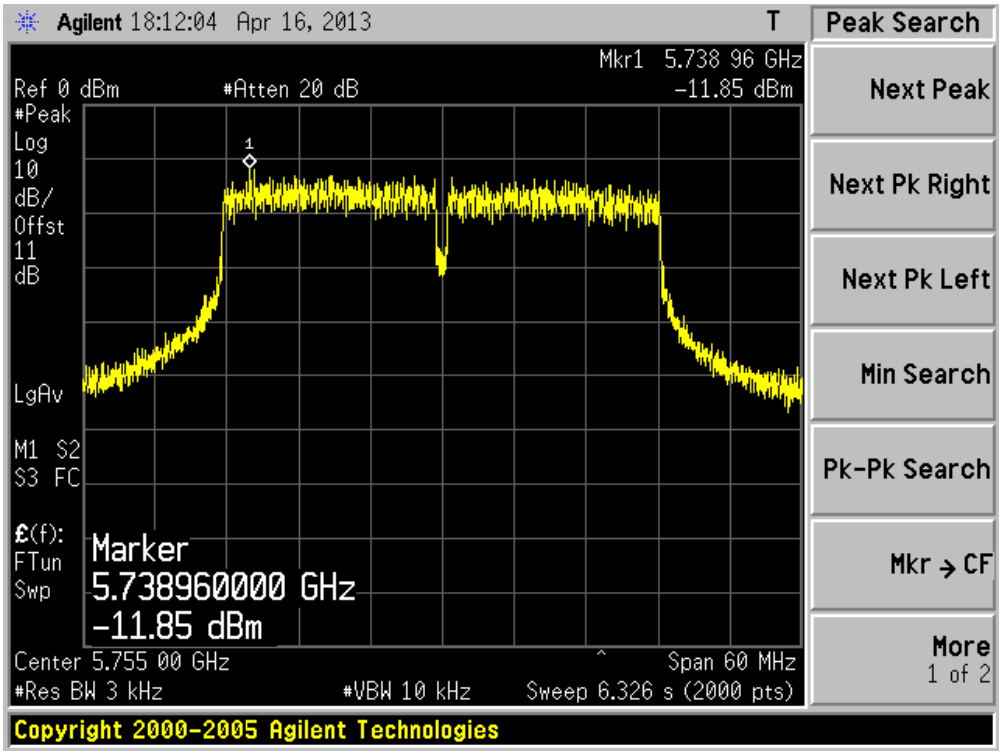
**Channel 06 (2437MHz)**



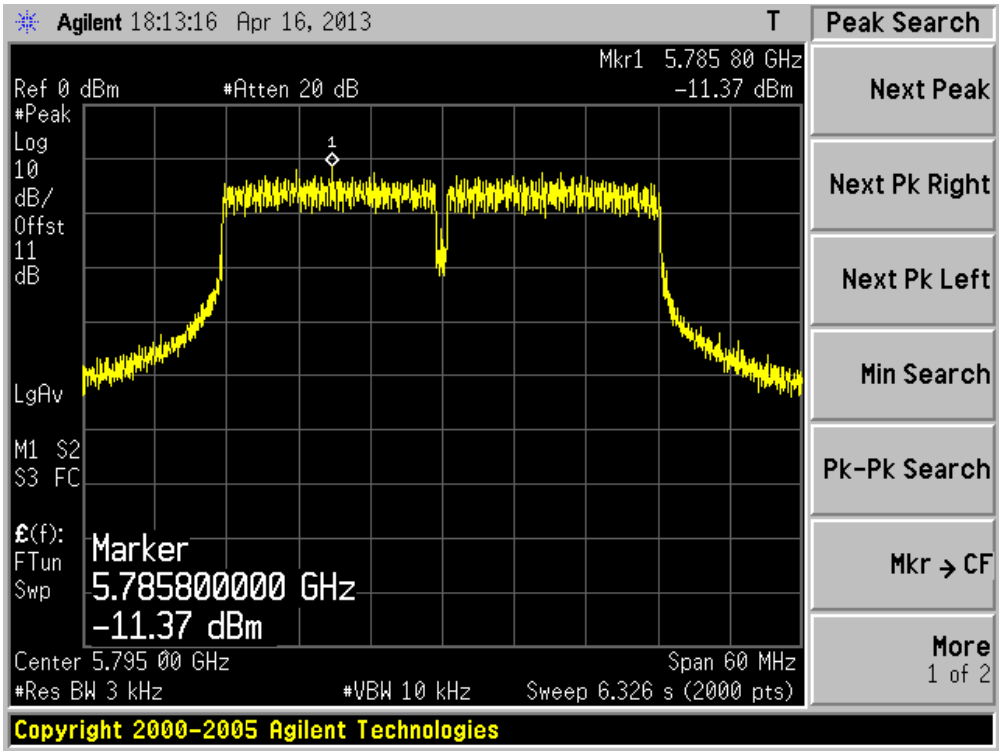

**Channel 09 (2452MHz)**



**Channel 151 (5755MHz)**



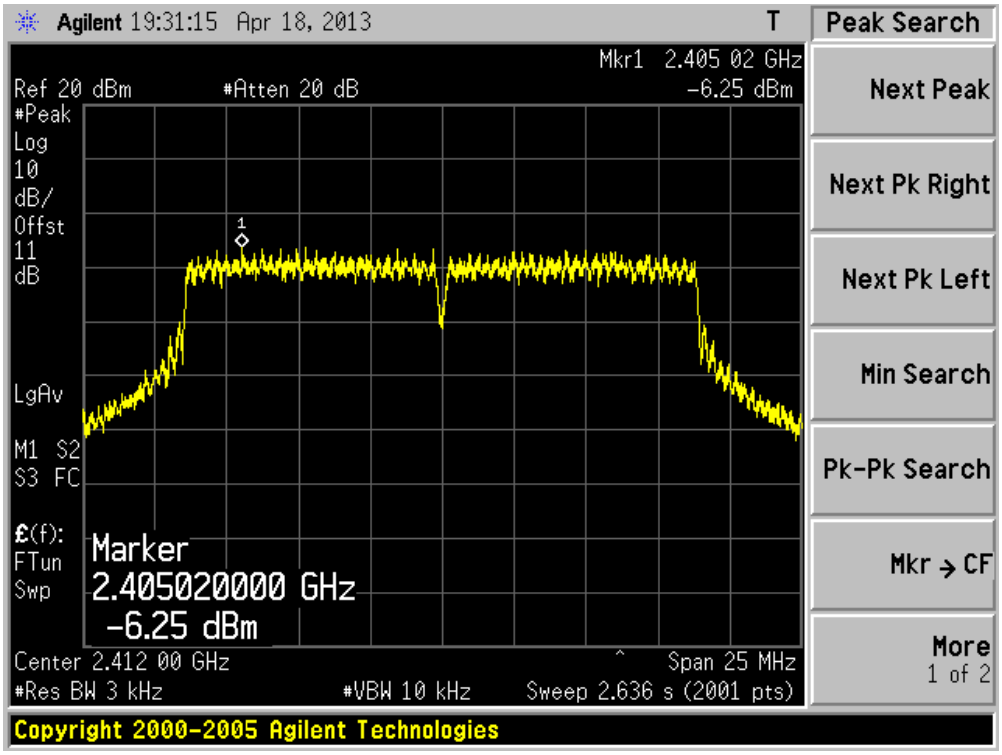

**Channel 159 (5795MHz)**



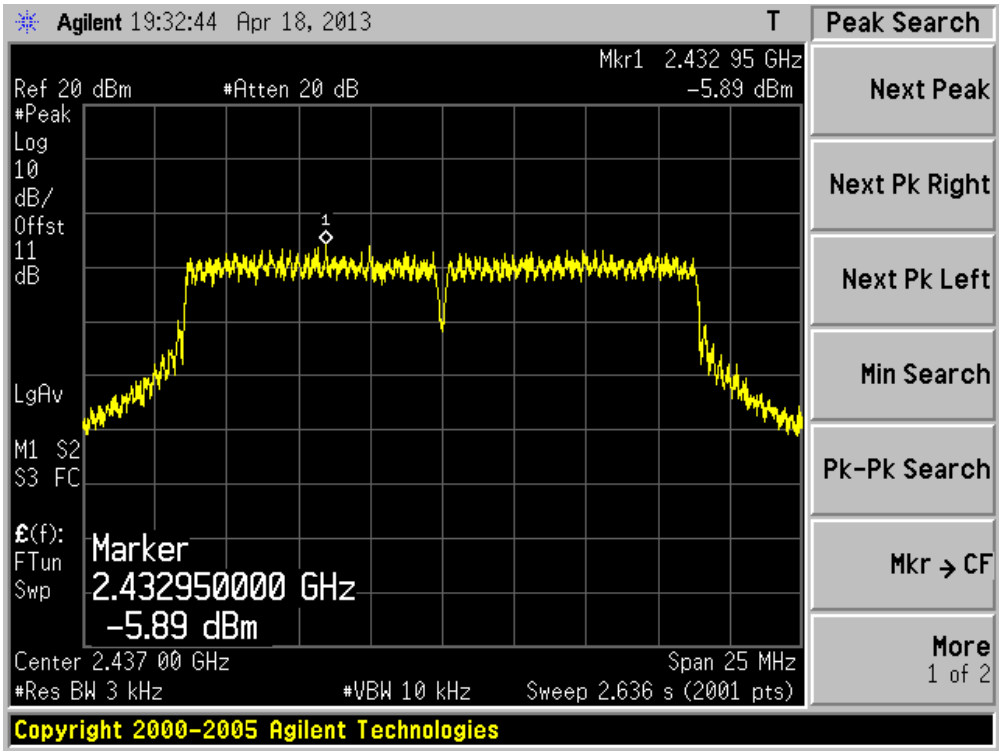
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 0+1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | -6.25 | -7.14 | N/A | -3.66 | 8 | Pass |
| 06 | 2437 | -5.89 | -6.65 | N/A | -3.24 | 8 | Pass |
| 11 | 2462 | -4.91 | -6.16 | N/A | -2.48 | 8 | Pass |
| 149 | 5745 | -9.26 | -10.47 | N/A | -6.81 | 8 | Pass |
| 157 | 5785 | -10.49 | -11.59 | N/A | -7.99 | 8 | Pass |
| 165 | 5825 | -8.25 | -9.34 | N/A | -5.75 | 8 | Pass |

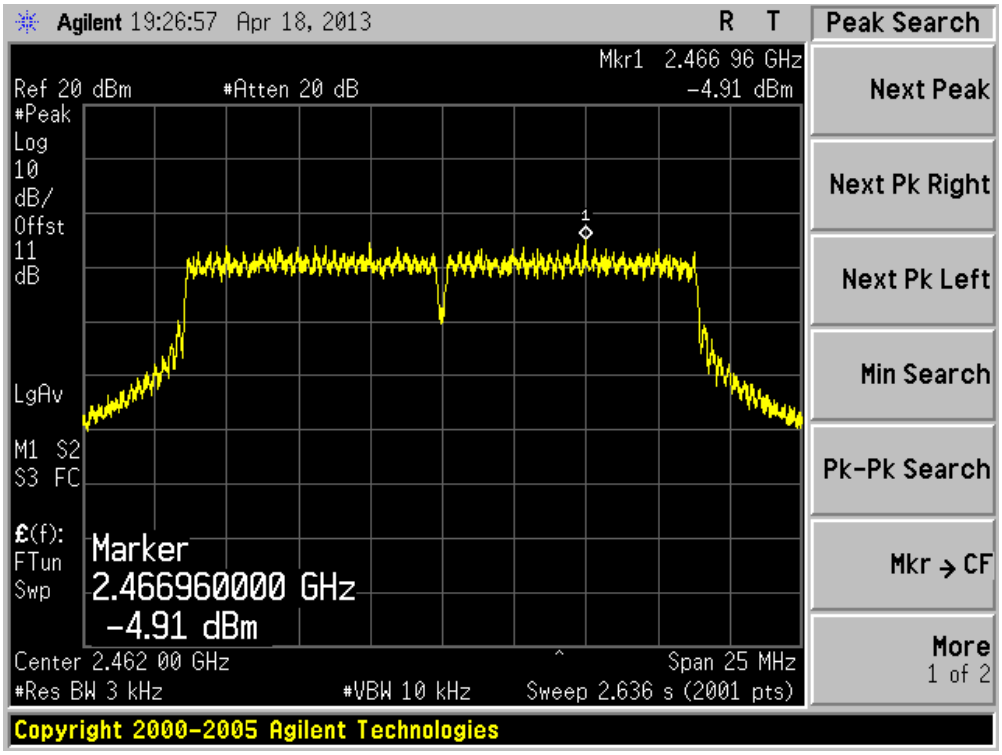
**Channel 01 (2412MHz) – Chain 0**



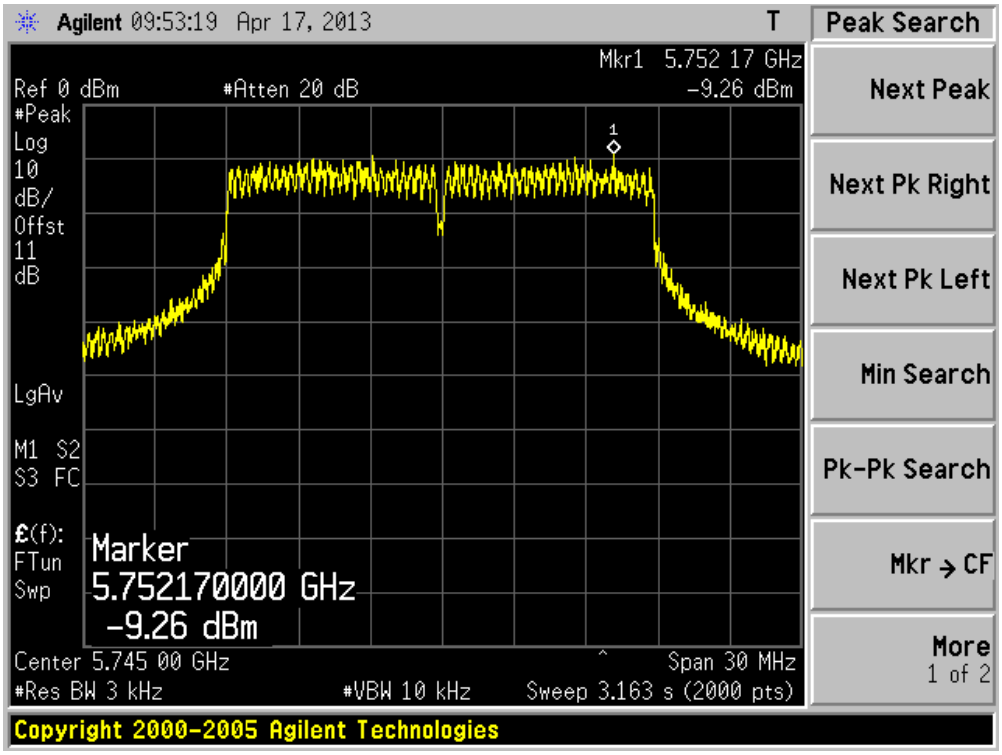
**Channel 06 (2437MHz) – Chain 0**



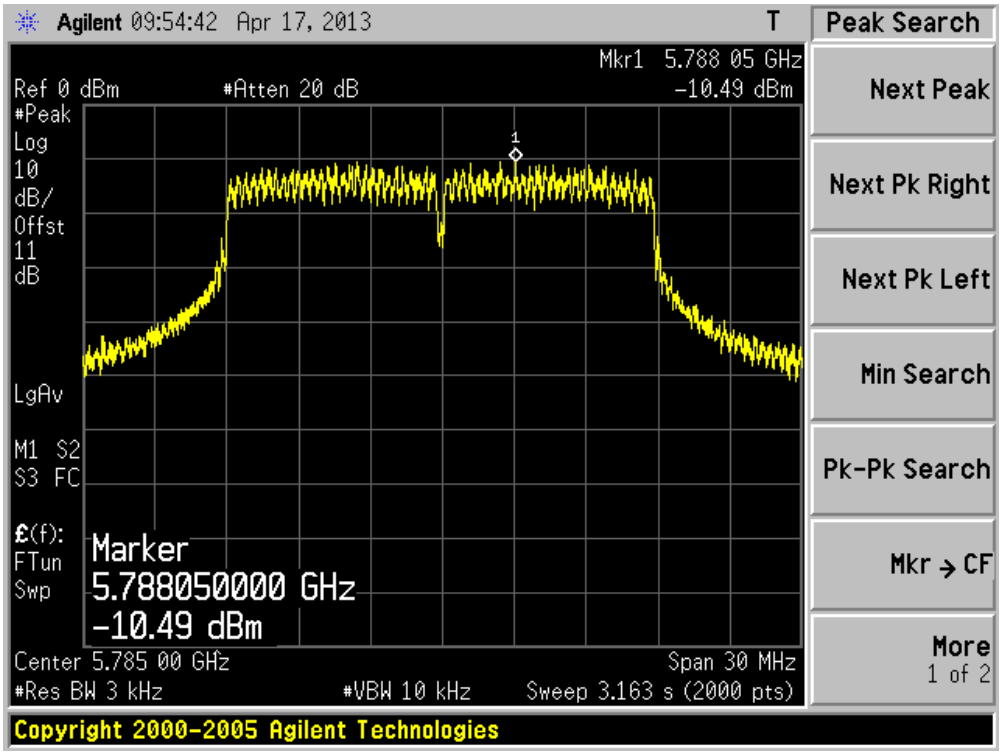

**Channel 11 (2462MHz) – Chain 0**



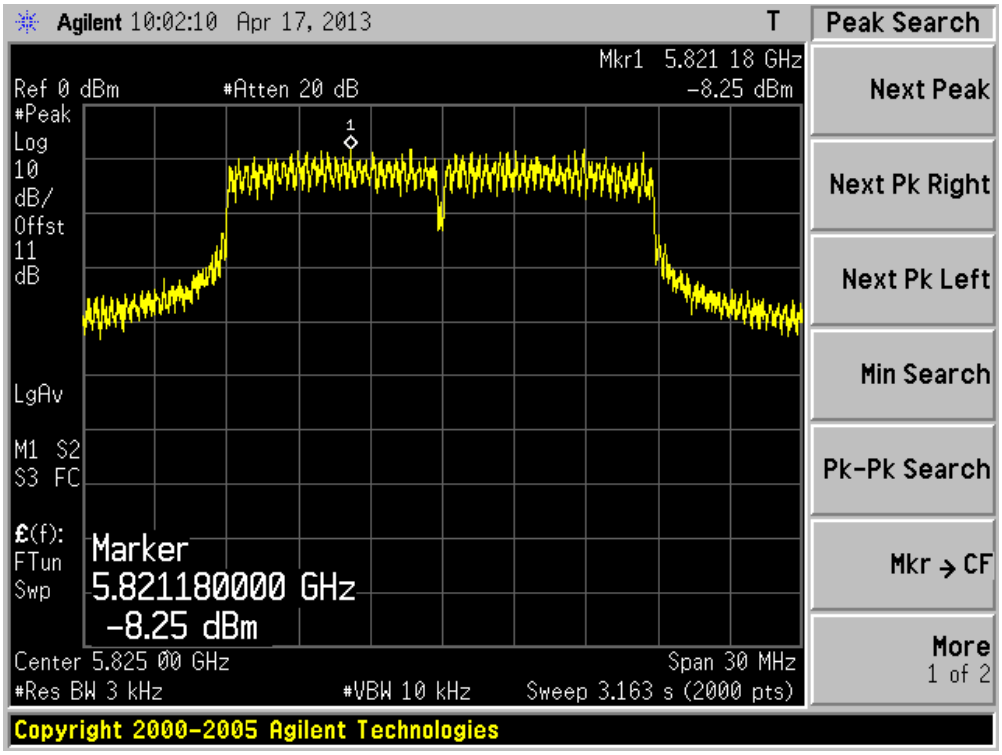
**Channel 149 (5745MHz) – Chain 0**



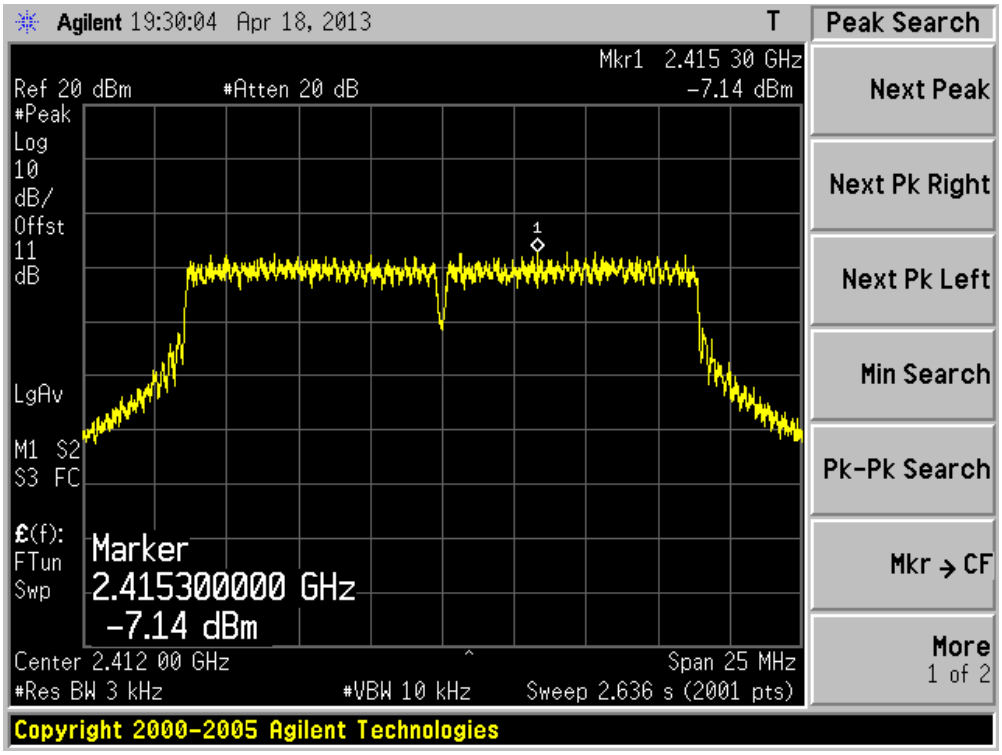

**Channel 157 (5785MHz) – Chain 0**



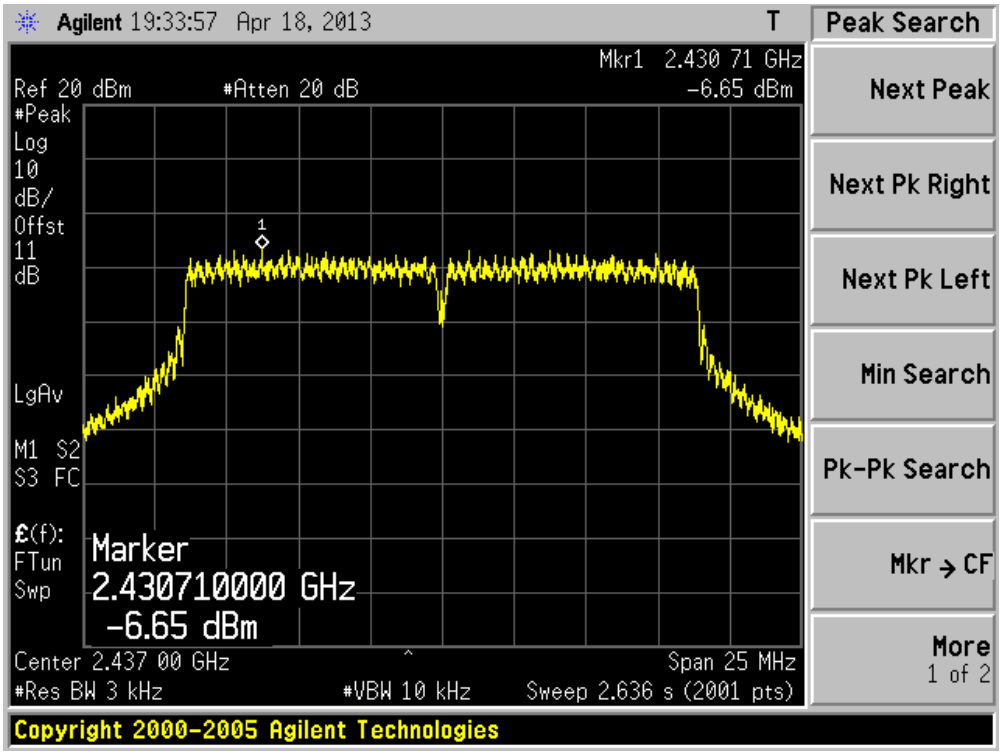
**Channel 165 (5825MHz) – Chain 0**



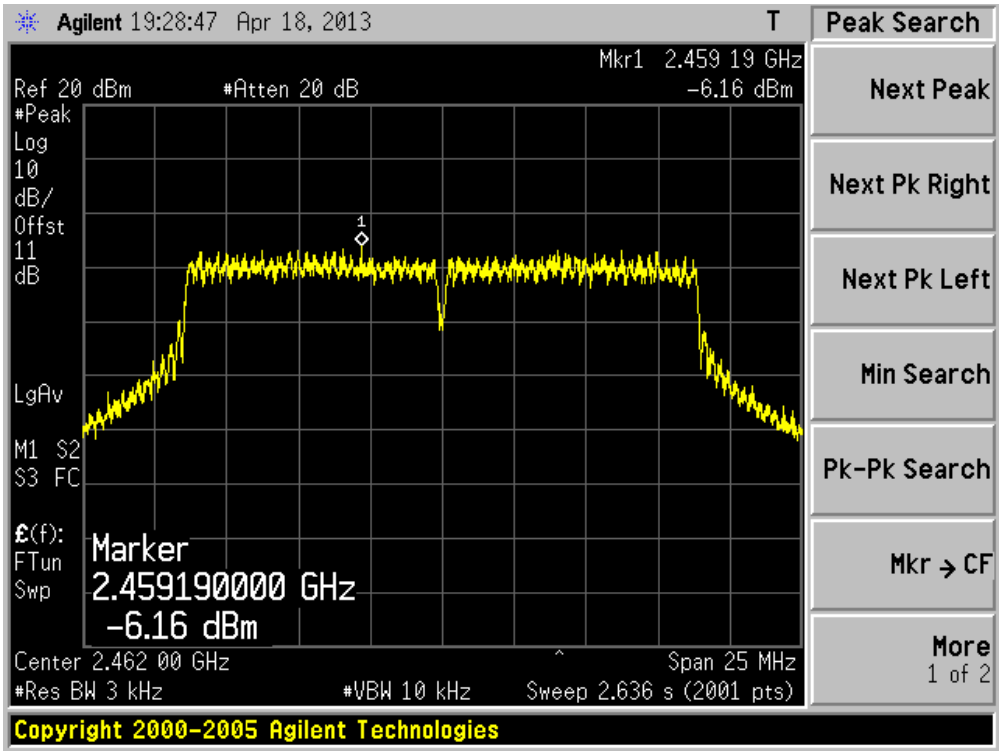

**Channel 01 (2412MHz) – Chain 1**



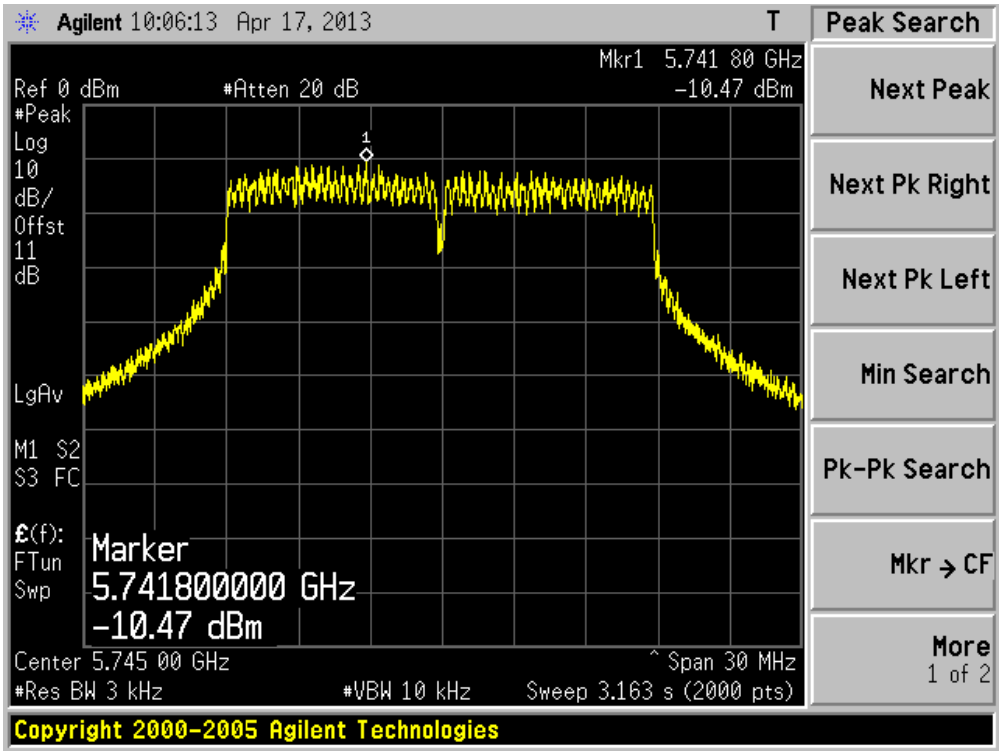
**Channel 06 (2437MHz) – Chain 1**



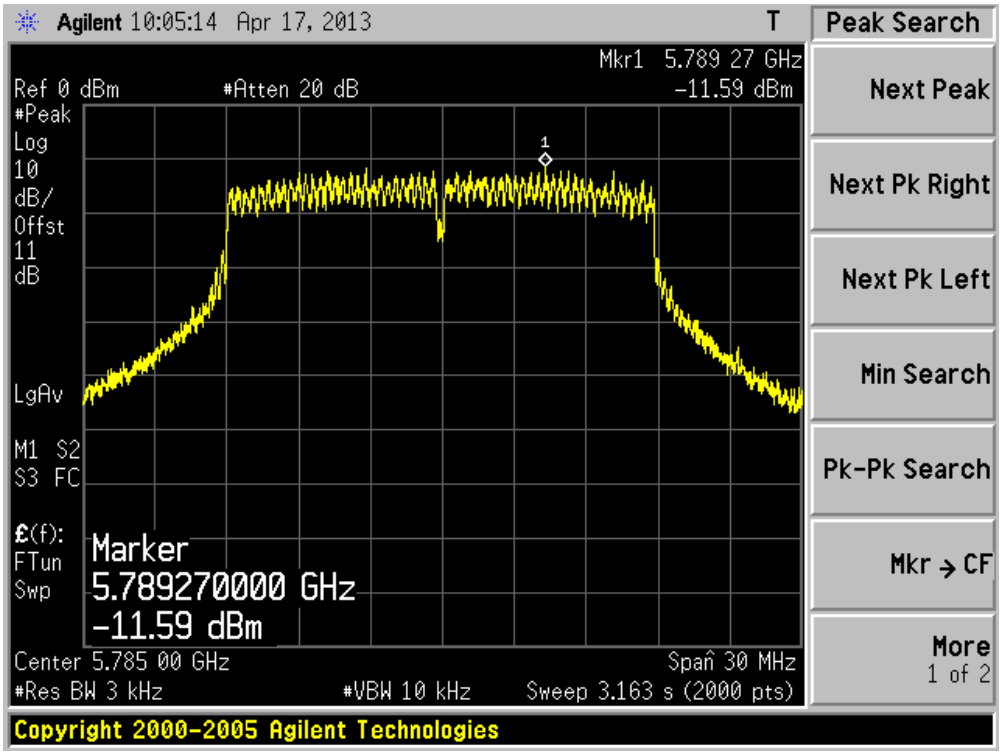

**Channel 11 (2462MHz) – Chain 1**



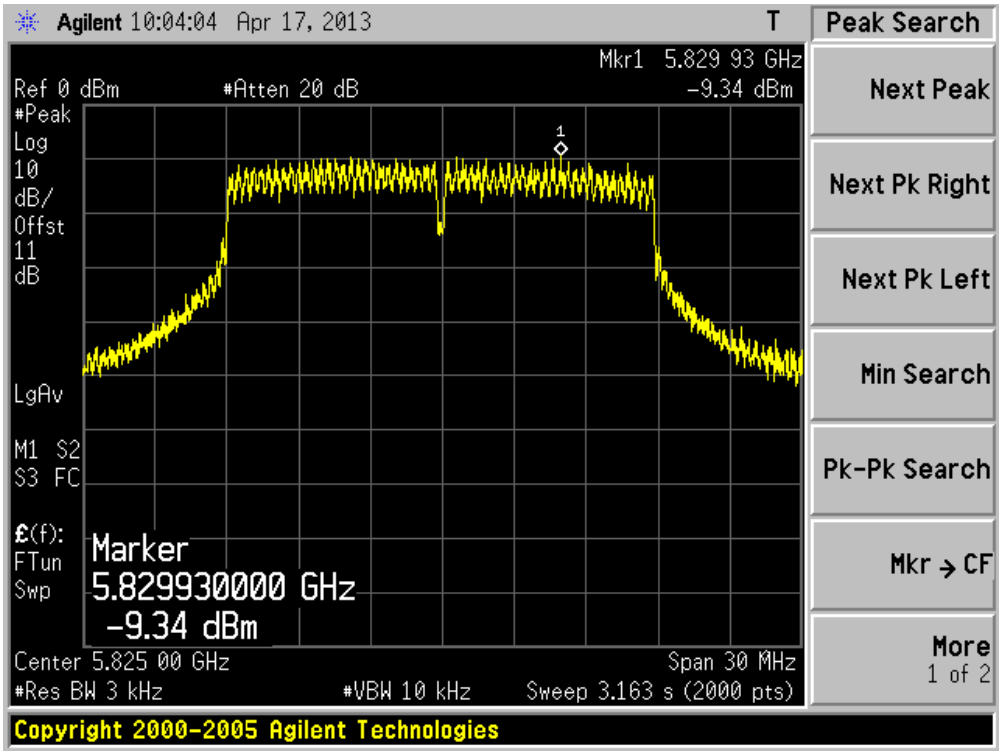
**Channel 149 (5745MHz) – Chain 1**




**Channel 157 (5785MHz) – Chain 1**



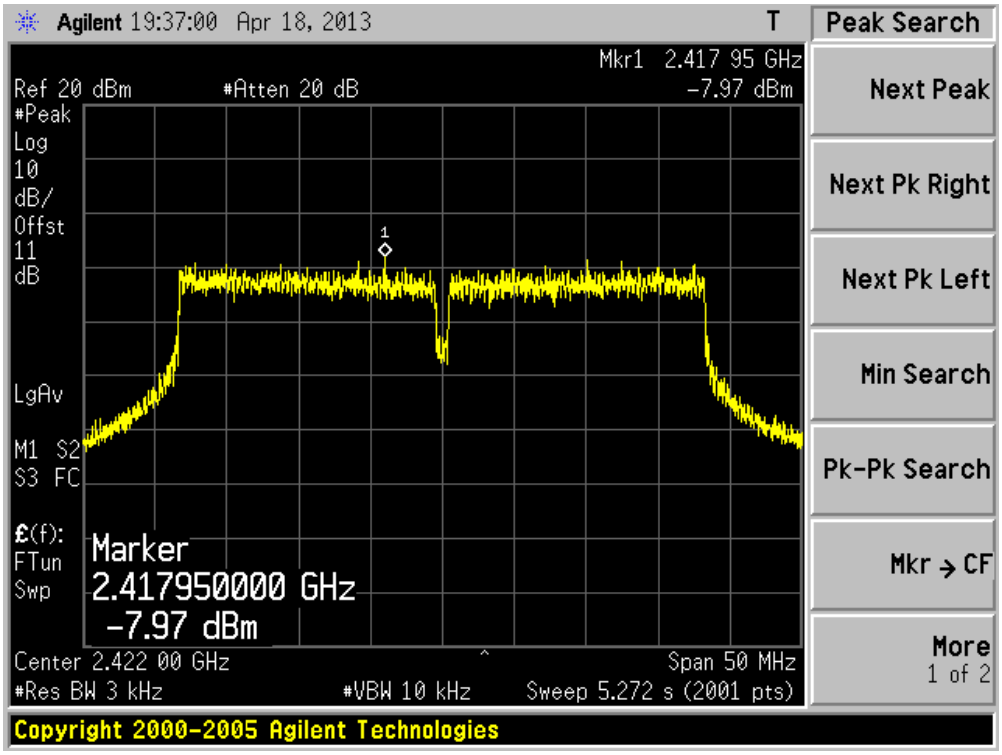
**Channel 165 (5825MHz) – Chain 1**



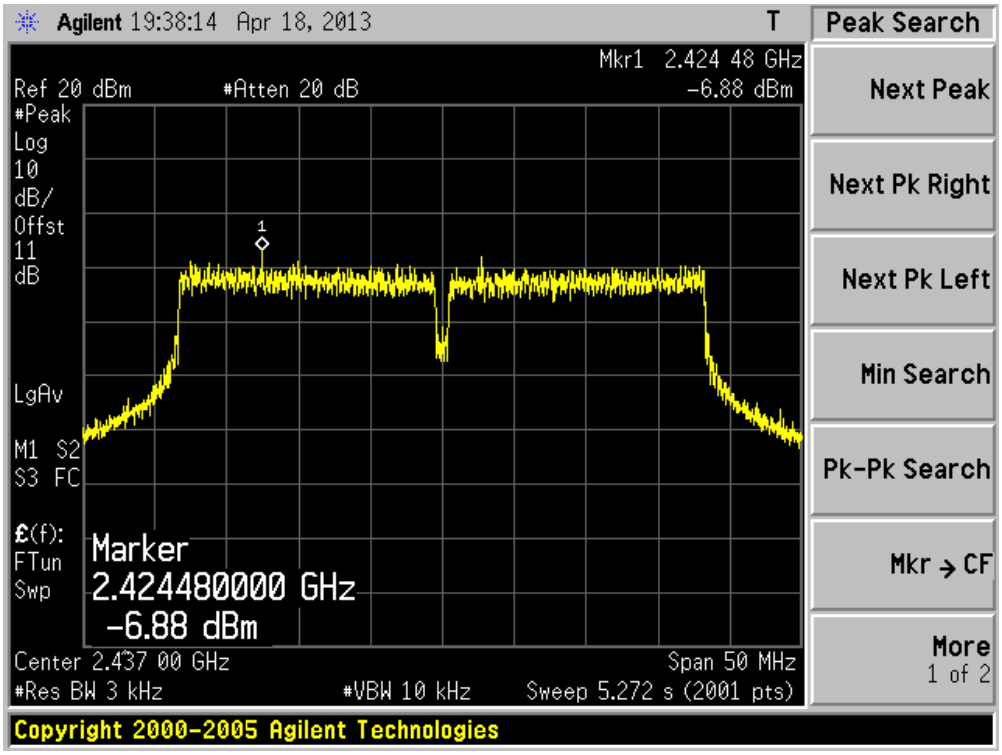
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 0+1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 03 | 2422 | -7.97 | -8.65 | N/A | -5.29 | 8 | Pass |
| 06 | 2437 | -6.88 | -8.13 | N/A | -4.45 | 8 | Pass |
| 09 | 2452 | -8.16 | -6.93 | N/A | -4.49 | 8 | Pass |
| 151 | 5755 | -16.39 | -16.37 | N/A | -13.37 | 8 | Pass |
| 159 | 5795 | -14.60 | -18.65 | N/A | -13.16 | 8 | Pass |

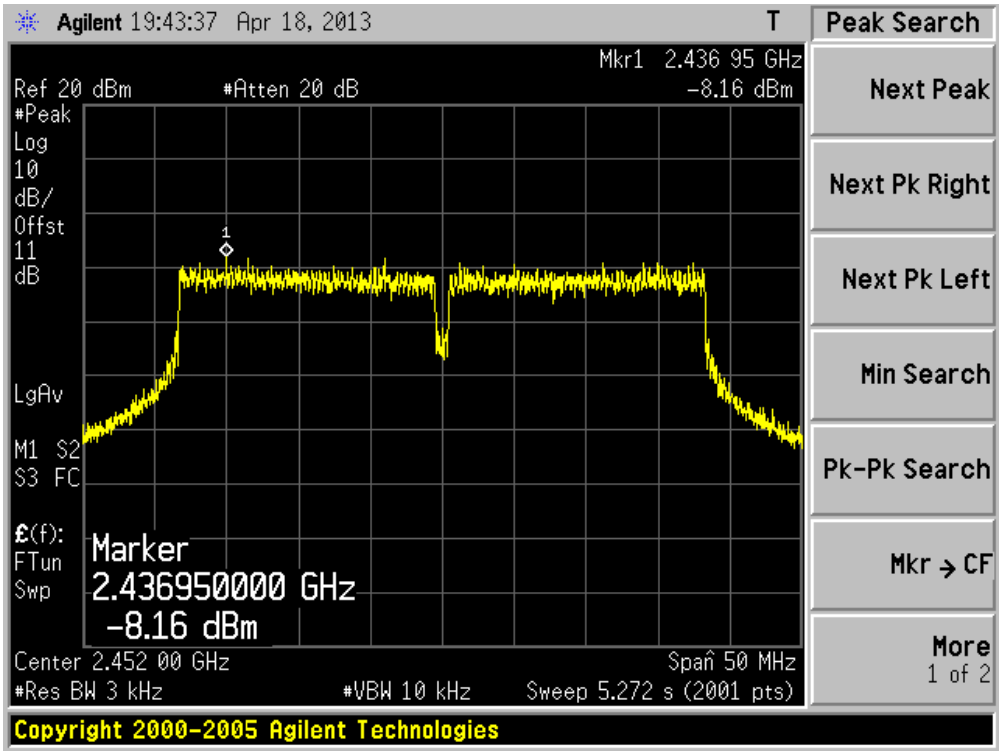
**Channel 03 (2422MHz) – Chain 0**



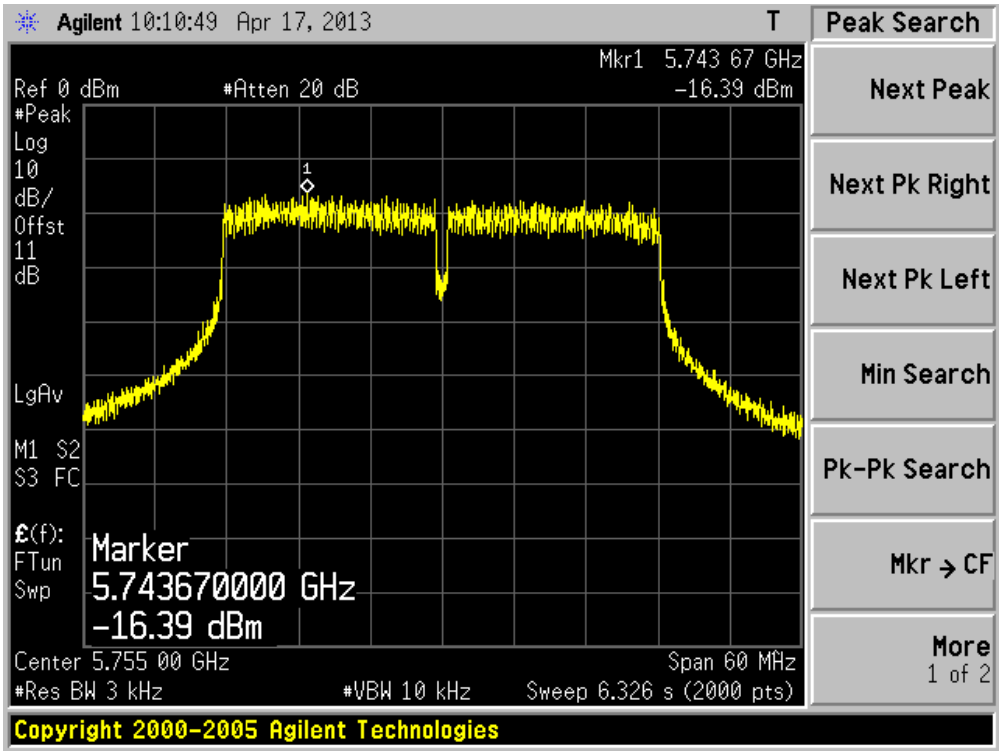
**Channel 06 (2437MHz) – Chain 0**



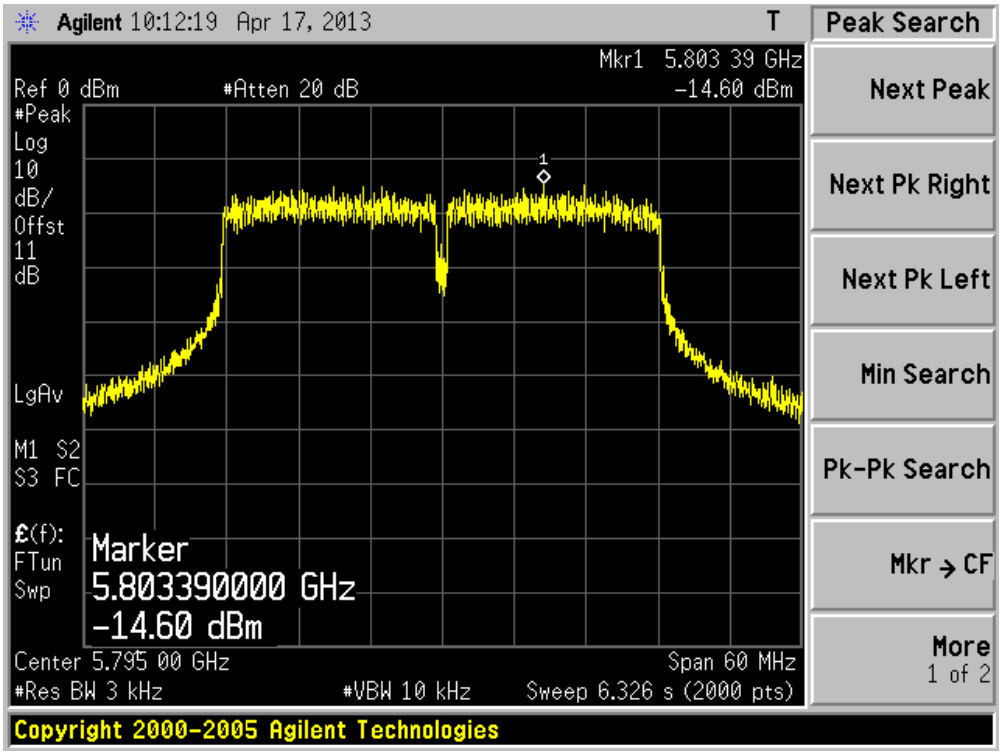

**Channel 09 (2452MHz) – Chain 0**



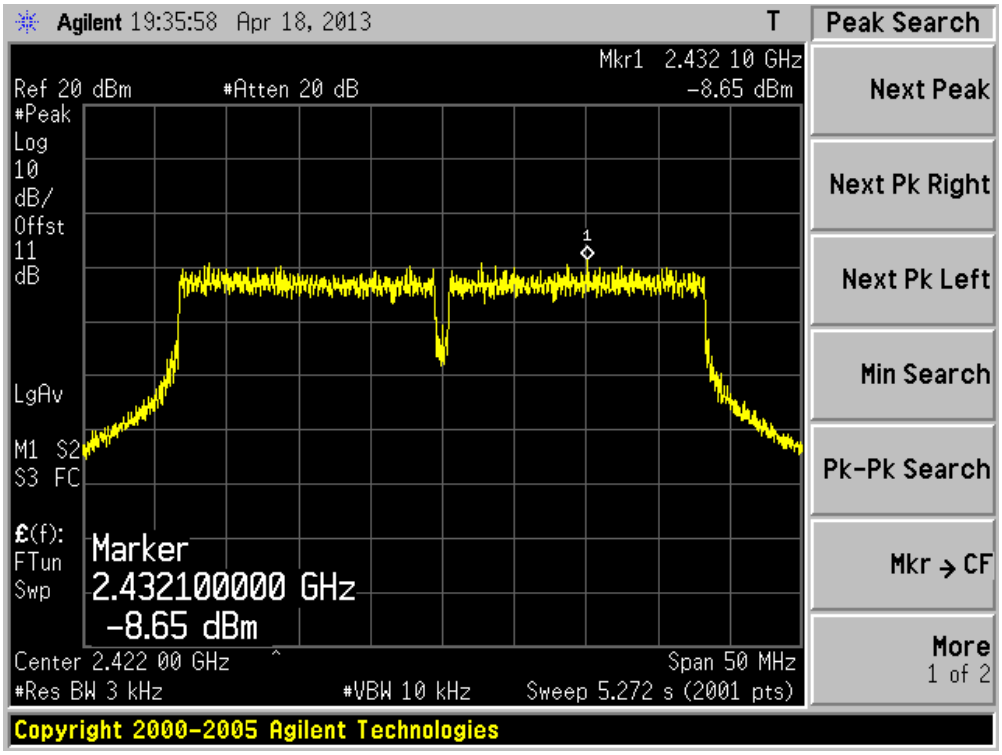
**Channel 151 (5755MHz) – Chain 0**



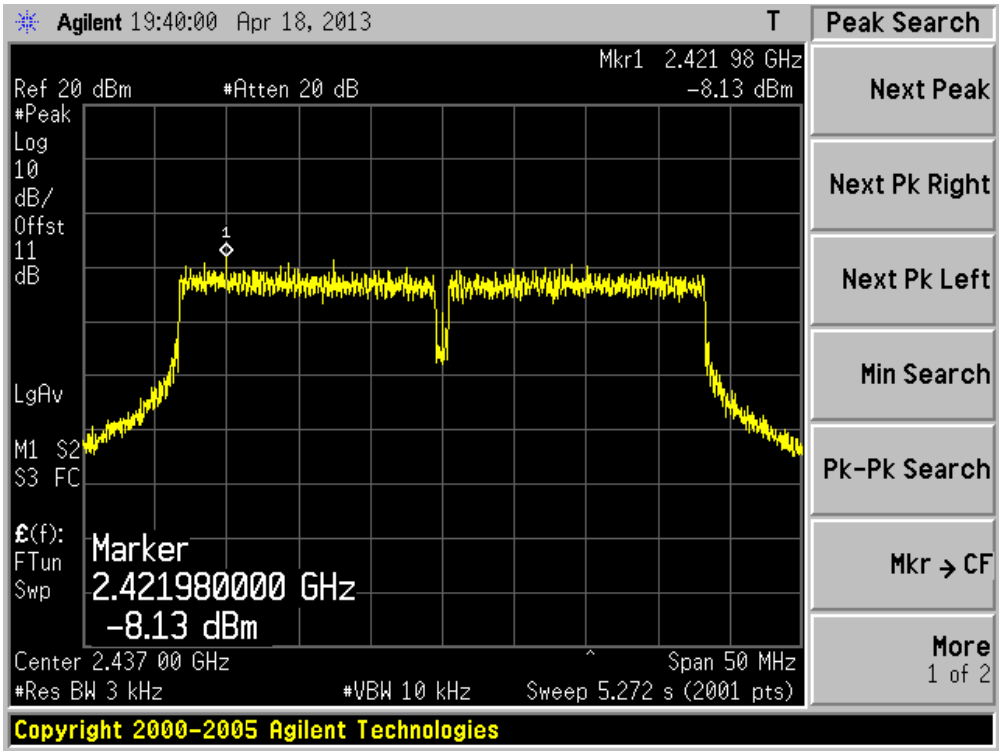

**Channel 159 (5795MHz) – Chain 0**



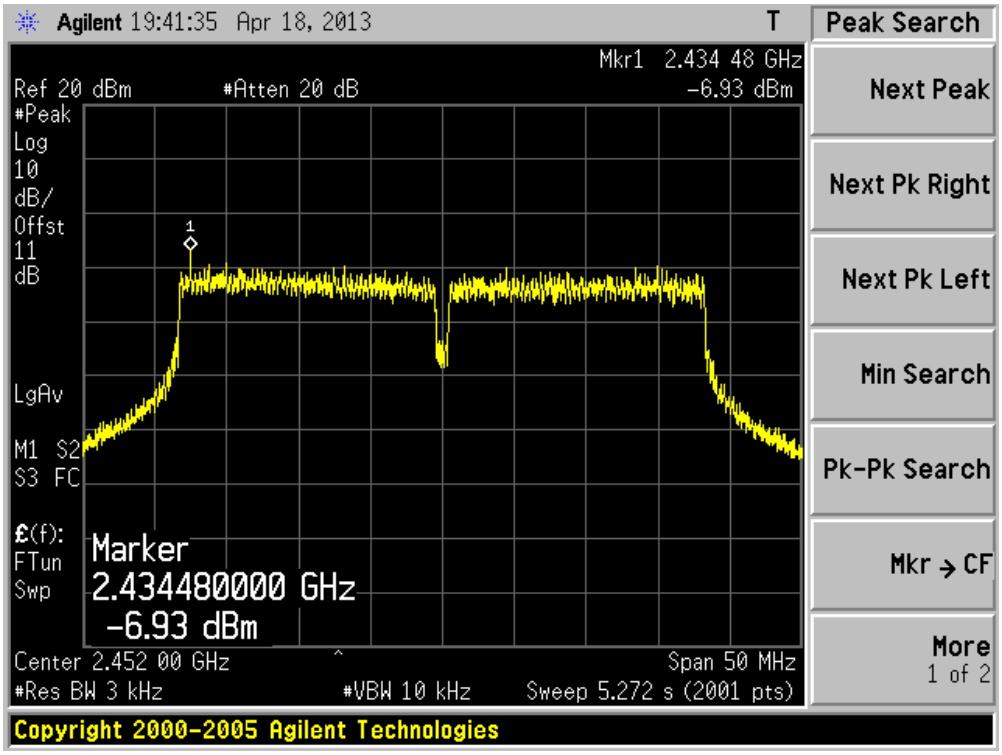
**Channel 03 (2422MHz) – Chain 1**



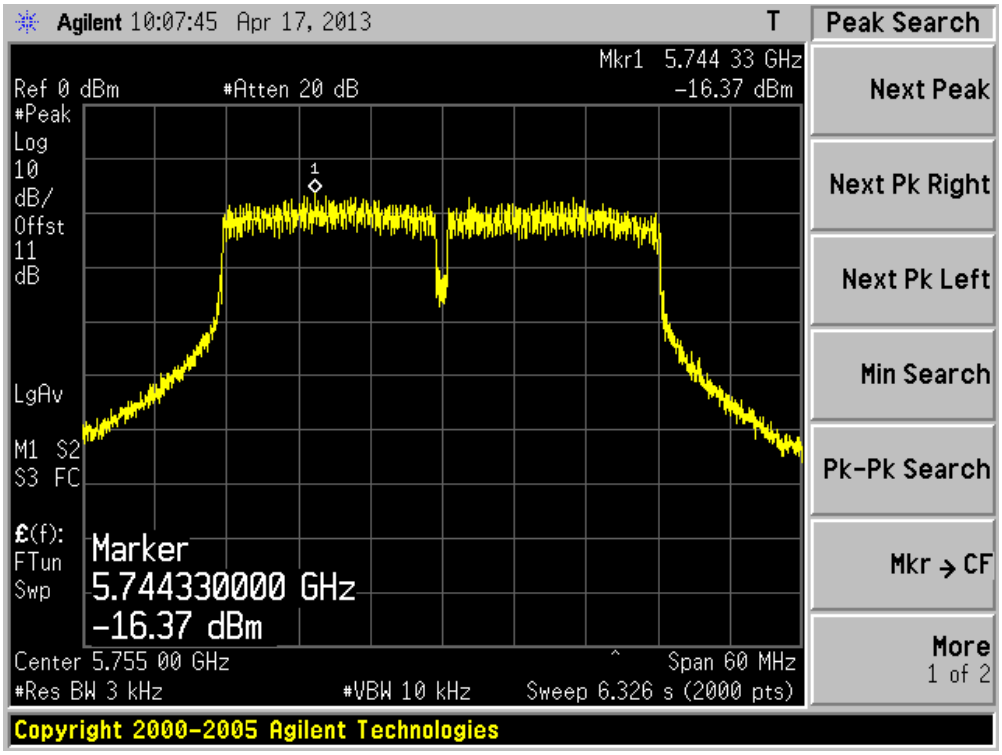

**Channel 06 (2437MHz) – Chain 1**



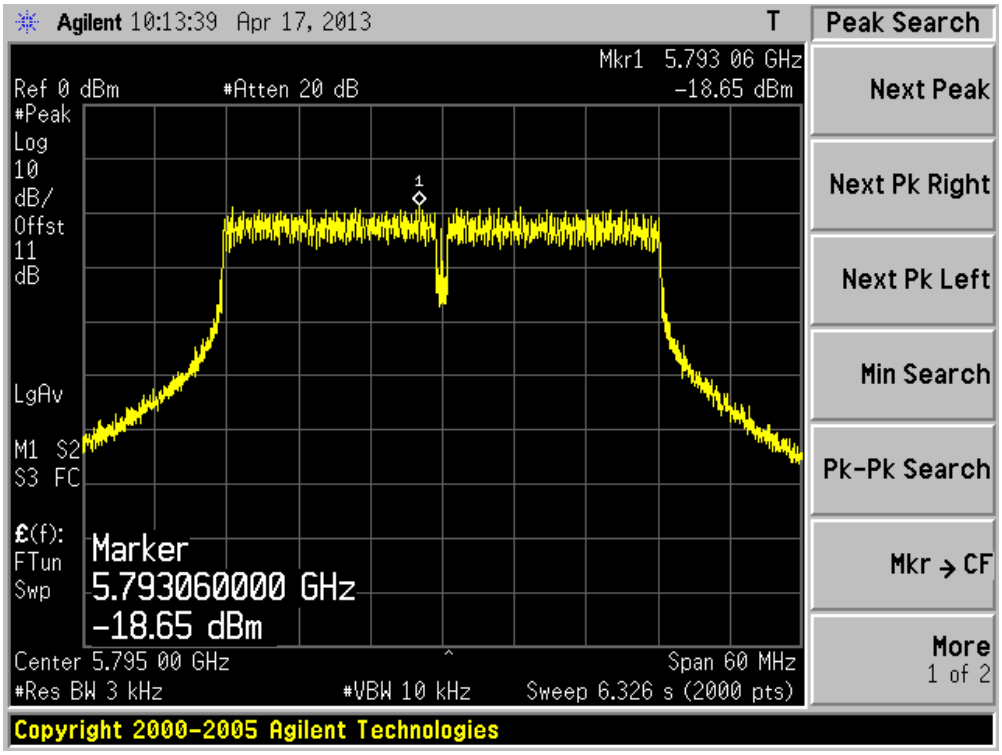
**Channel 09 (2452MHz) – Chain 1**




**Channel 151 (5755MHz) – Chain 1**



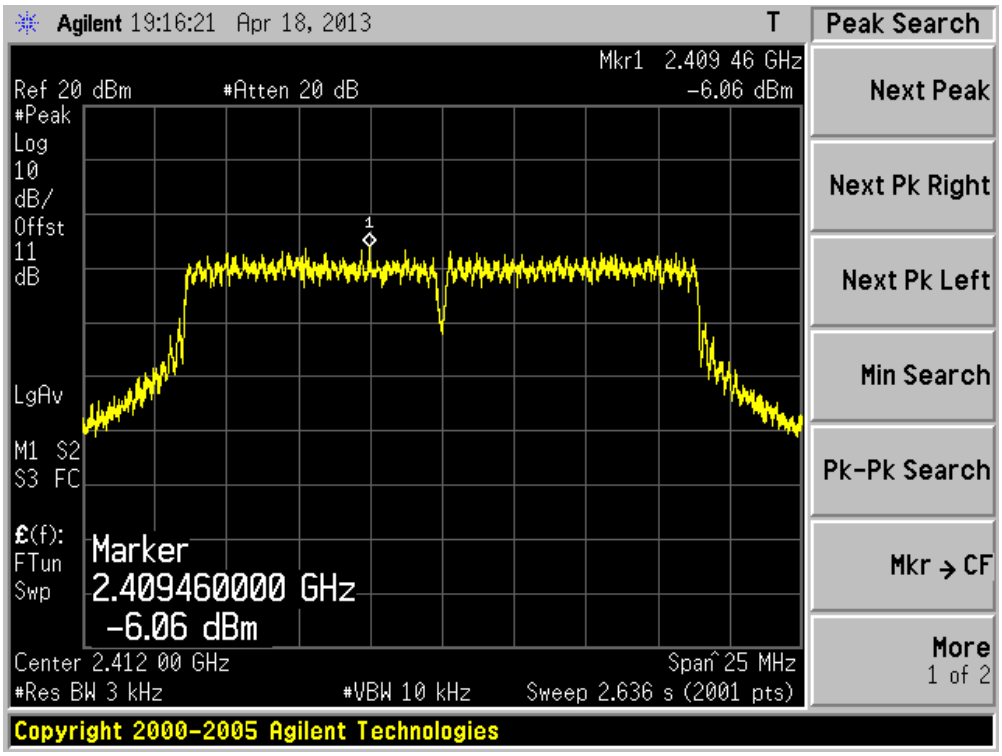
**Channel 159 (5795MHz) – Chain 1**



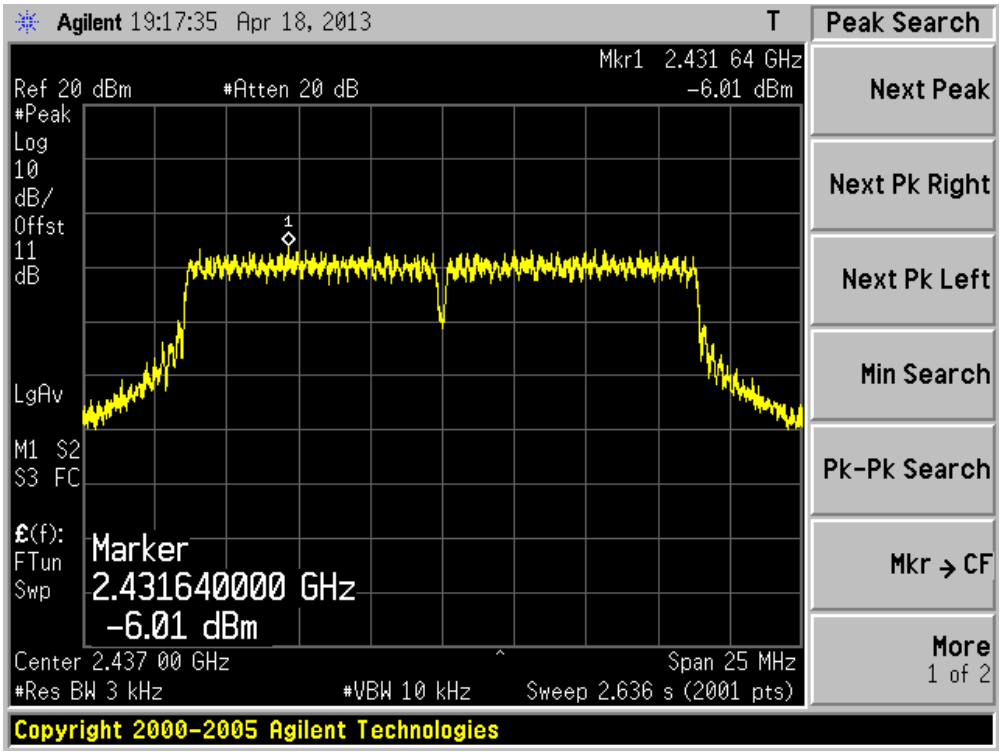
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 4: Transmit by 802.11n (20MHz) (Chain 0+1+2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 01 | 2412 | -6.06 | -6.72 | -6.31 | -1.58 | 8 | Pass |
| 06 | 2437 | -6.01 | -6.24 | -6.97 | -1.62 | 8 | Pass |
| 11 | 2462 | -6.60 | -5.99 | -7.03 | -1.75 | 8 | Pass |
| 149 | 5745 | -15.94 | -16.85 | -15.39 | -11.25 | 8 | Pass |
| 157 | 5785 | -15.66 | -17.64 | -14.53 | -10.99 | 8 | Pass |
| 165 | 5825 | -15.10 | -16.92 | -14.06 | -10.43 | 8 | Pass |

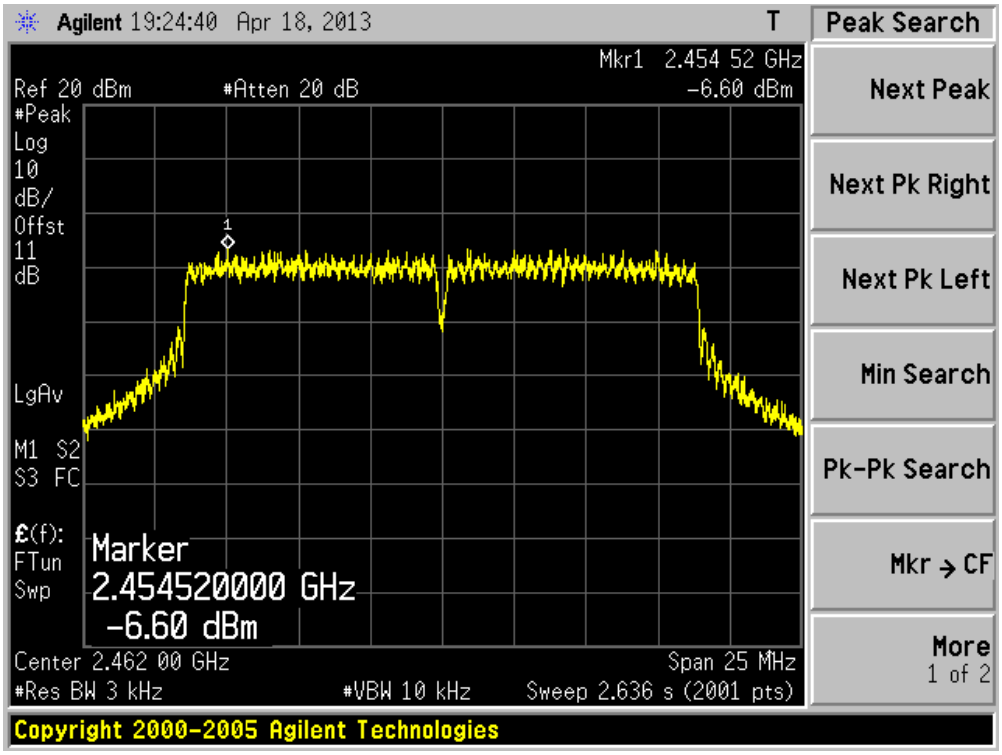
**Channel 01 (2412MHz) – Chain 0**



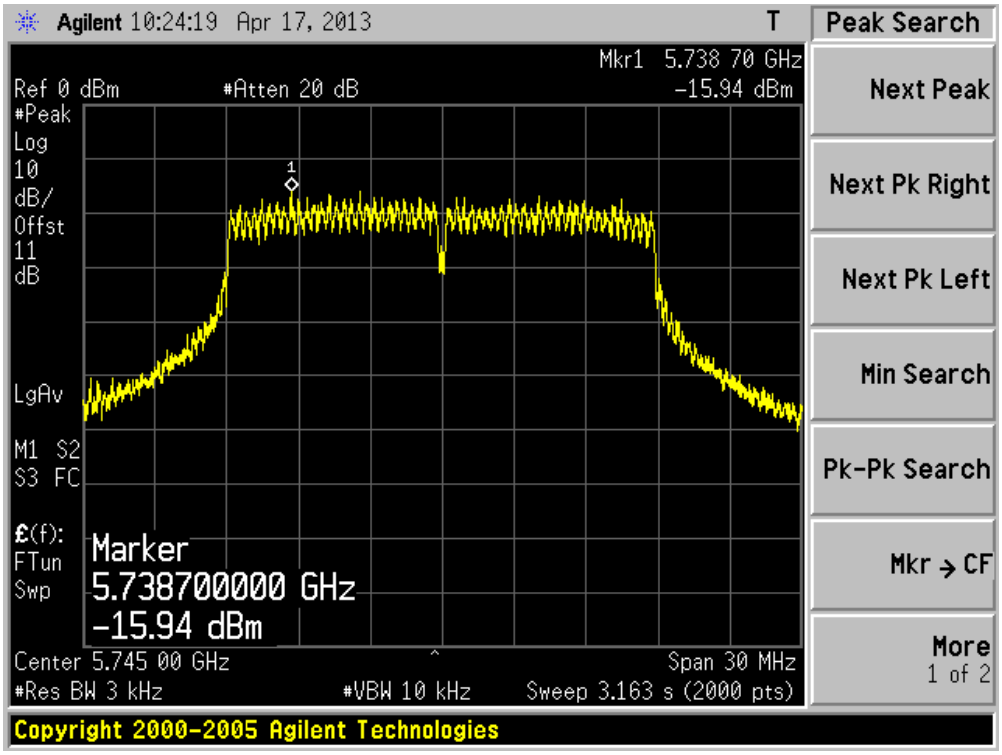
**Channel 06 (2437MHz) – Chain 0**



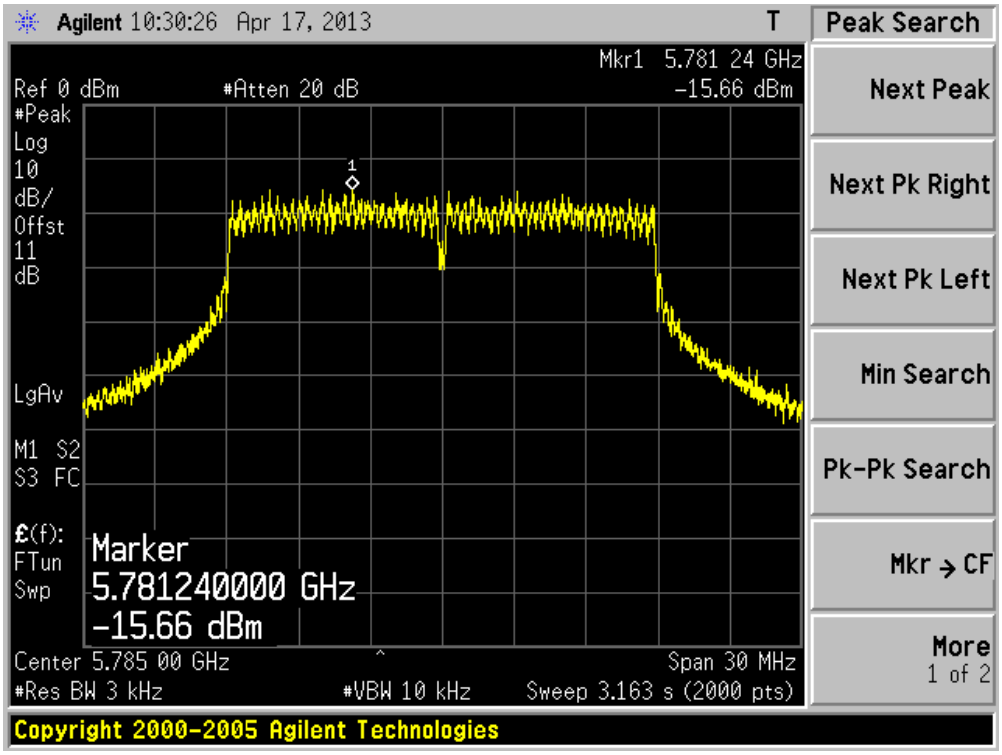

**Channel 11 (2462MHz) – Chain 0**



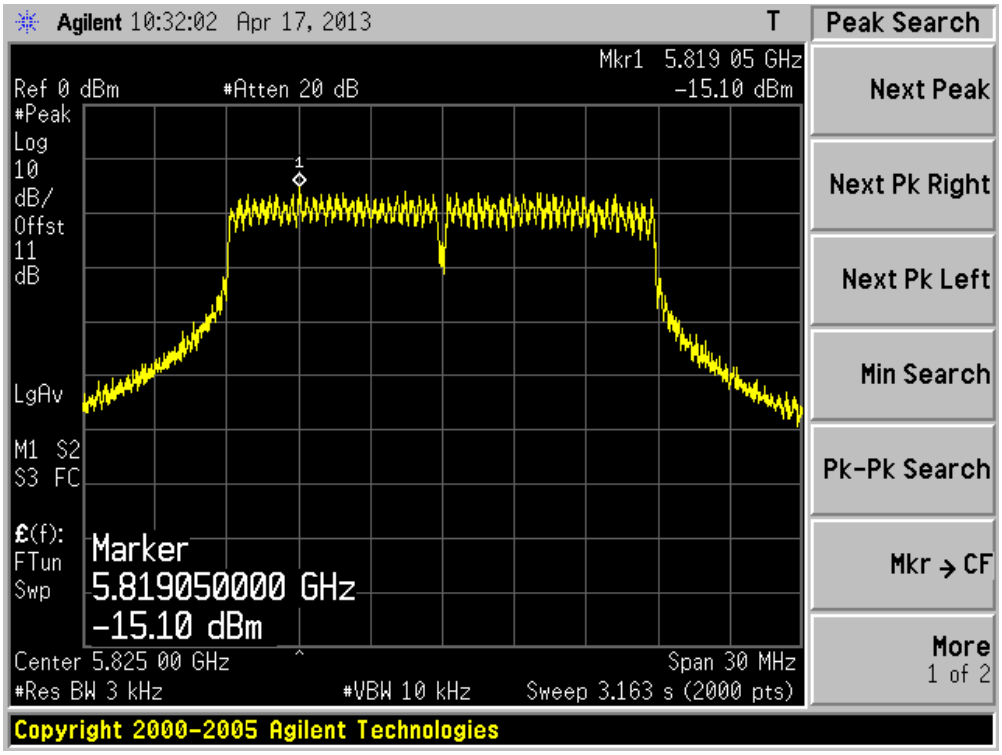
**Channel 149 (5745MHz) – Chain 0**



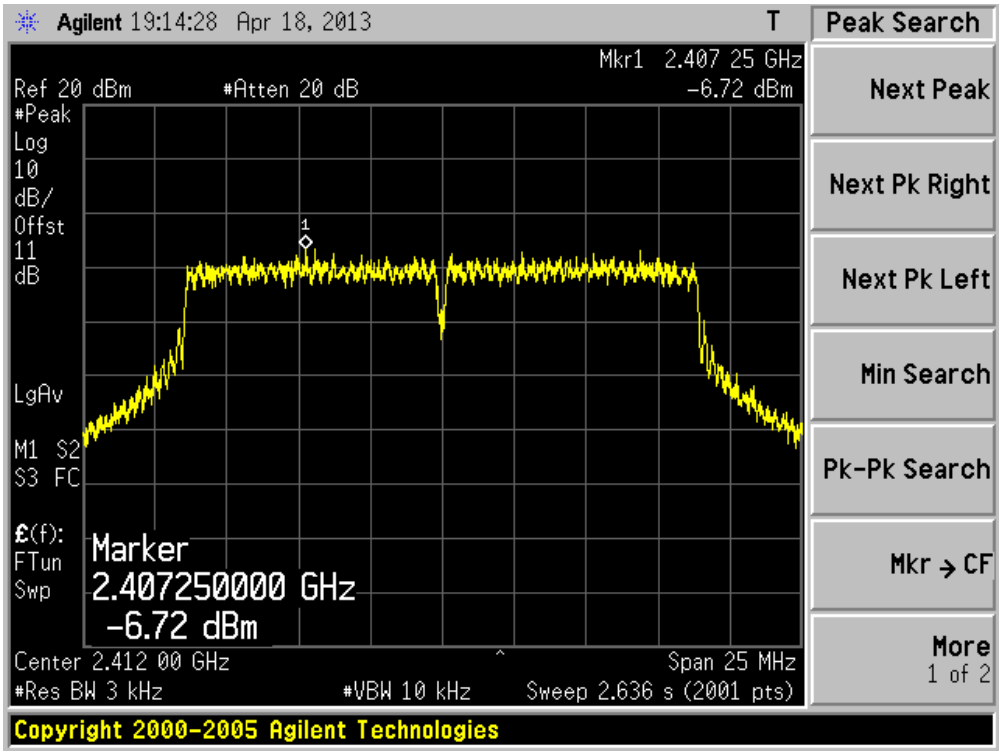

**Channel 157 (5785MHz) – Chain 0**



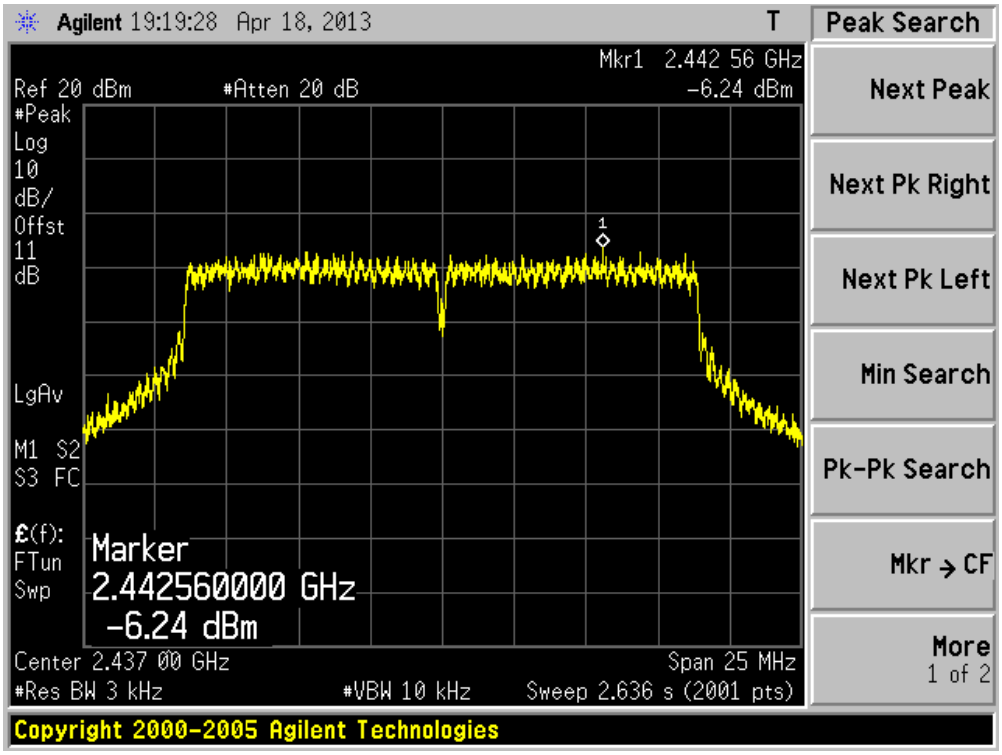
**Channel 165 (5825MHz) – Chain 0**



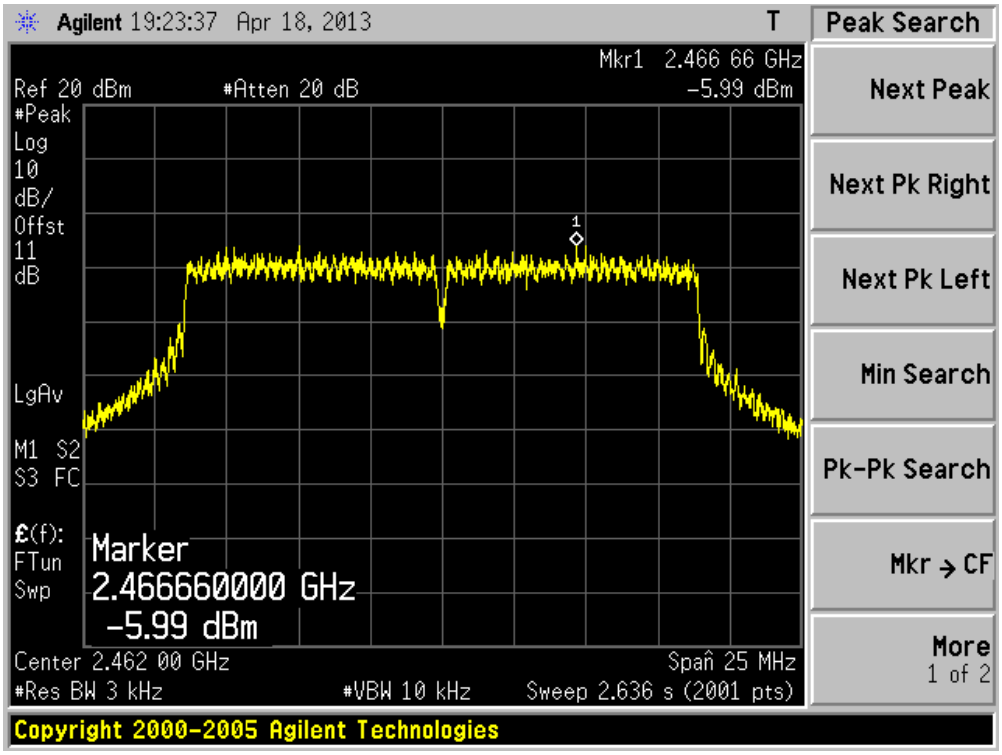

**Channel 01 (2412MHz) – Chain 1**



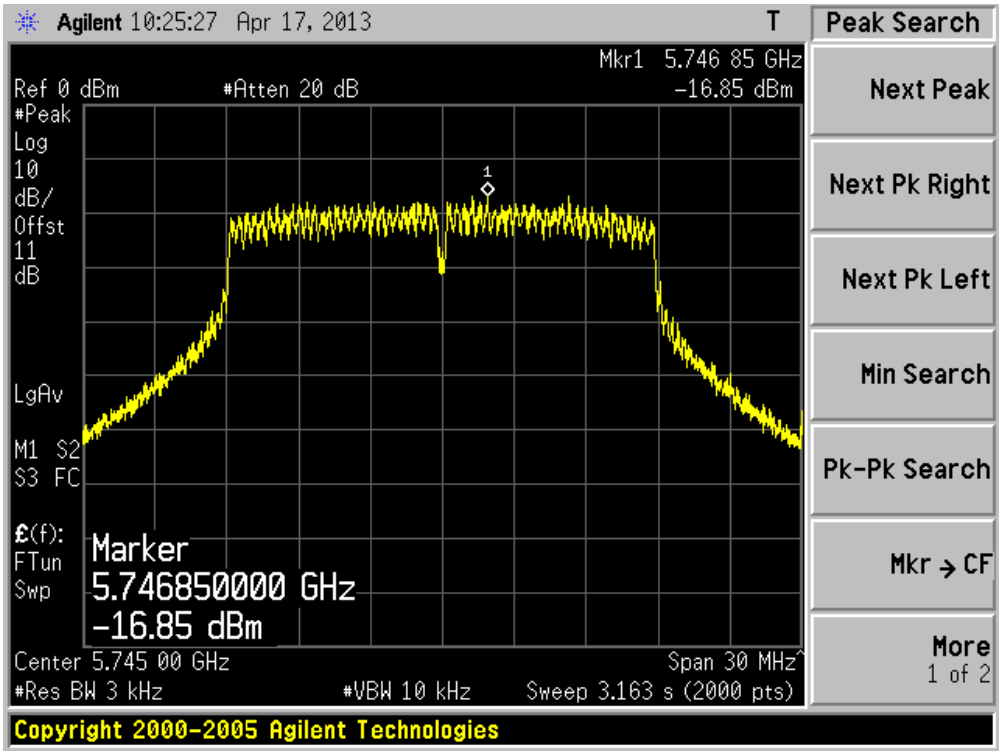
**Channel 06 (2437MHz) – Chain 1**



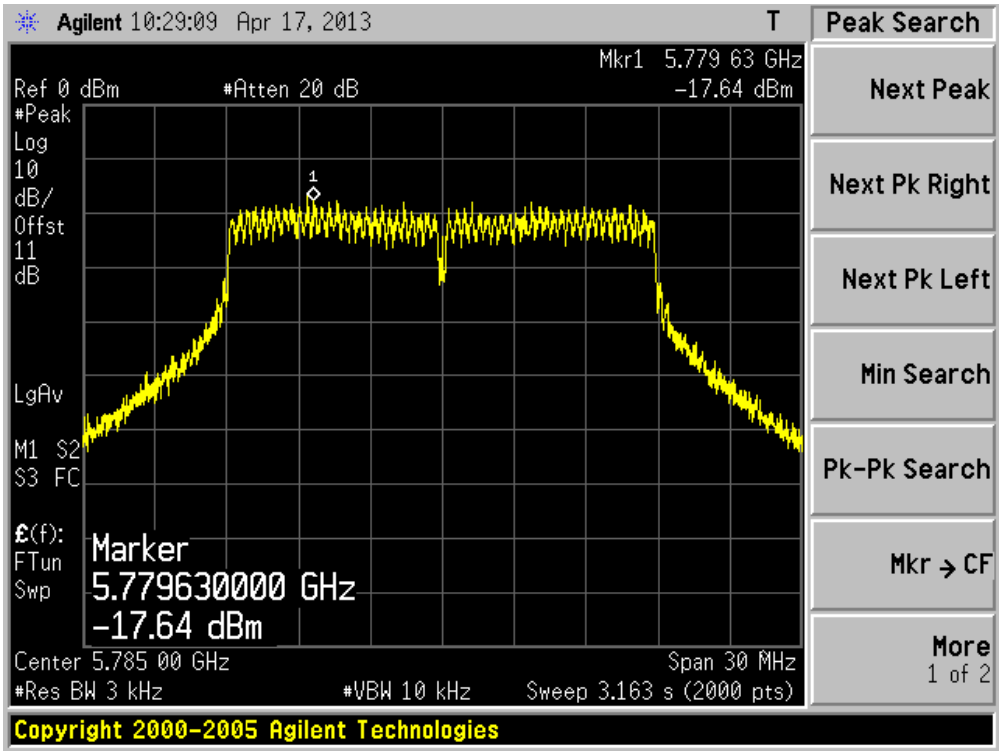

**Channel 11 (2462MHz) – Chain 1**



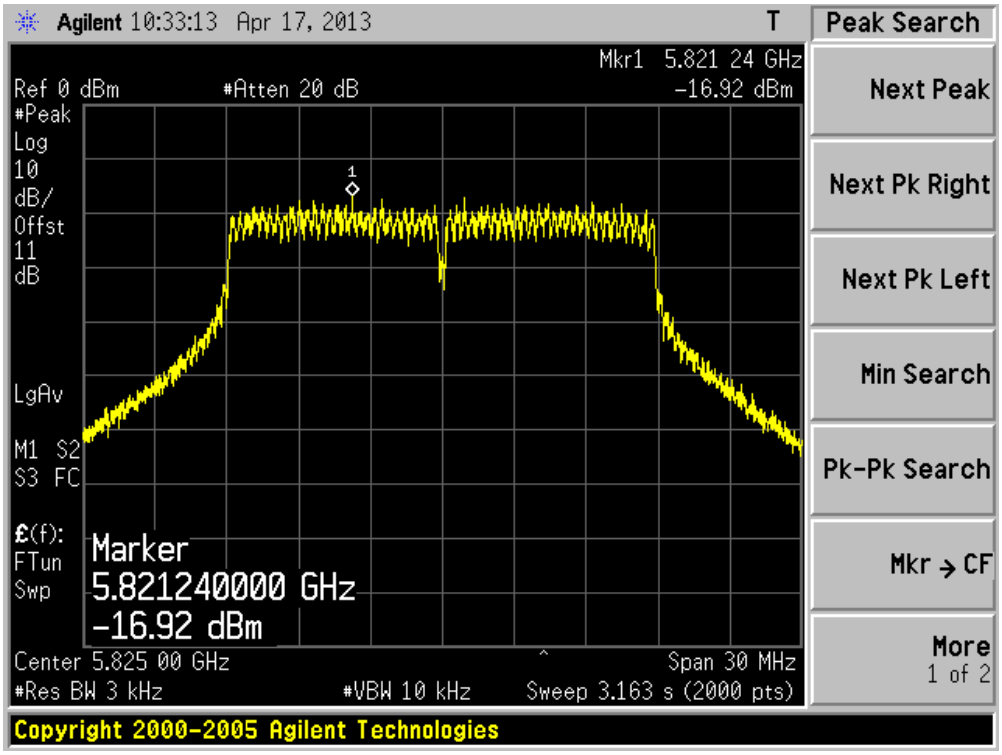
**Channel 149 (5745MHz) – Chain 1**



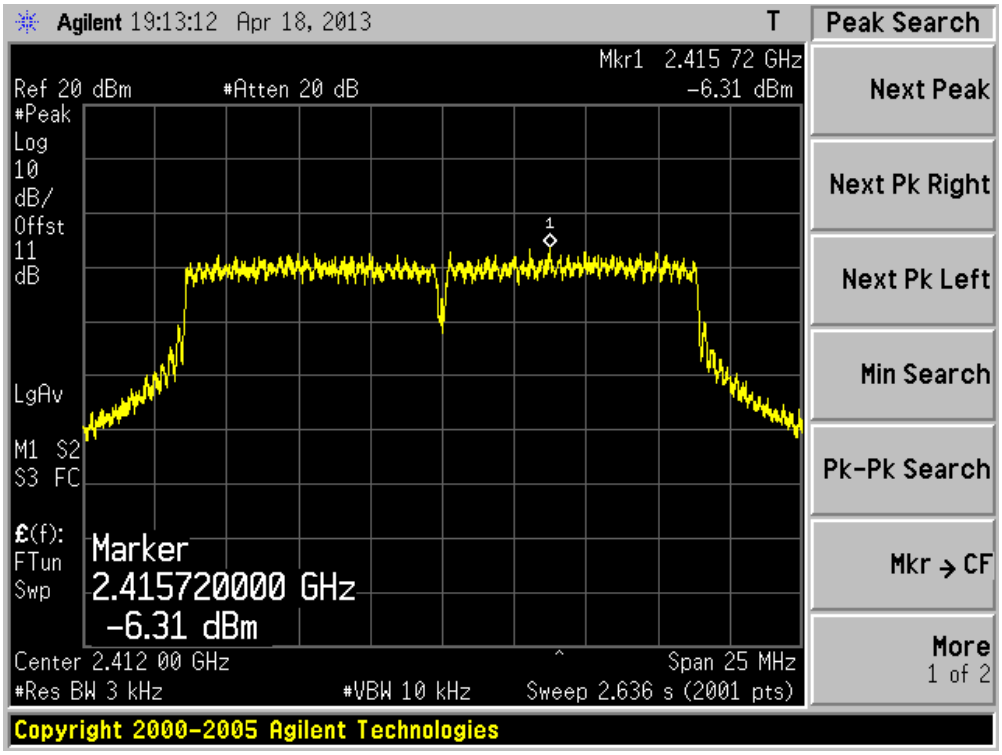

**Channel 157 (5785MHz) – Chain 1**



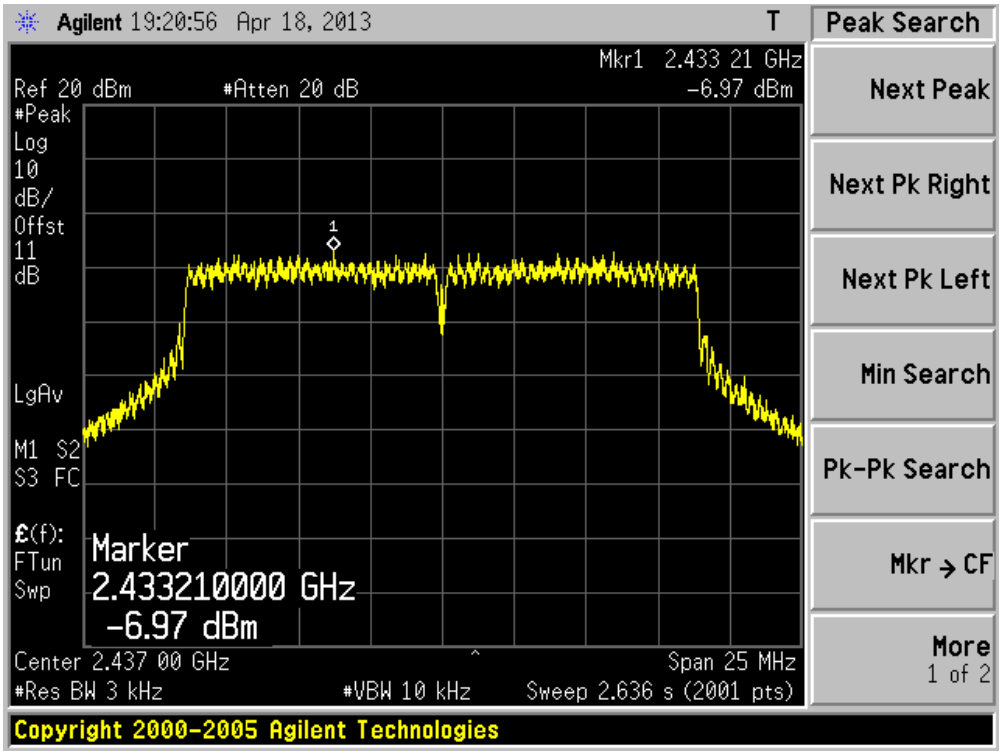
**Channel 165 (5825MHz) – Chain 1**



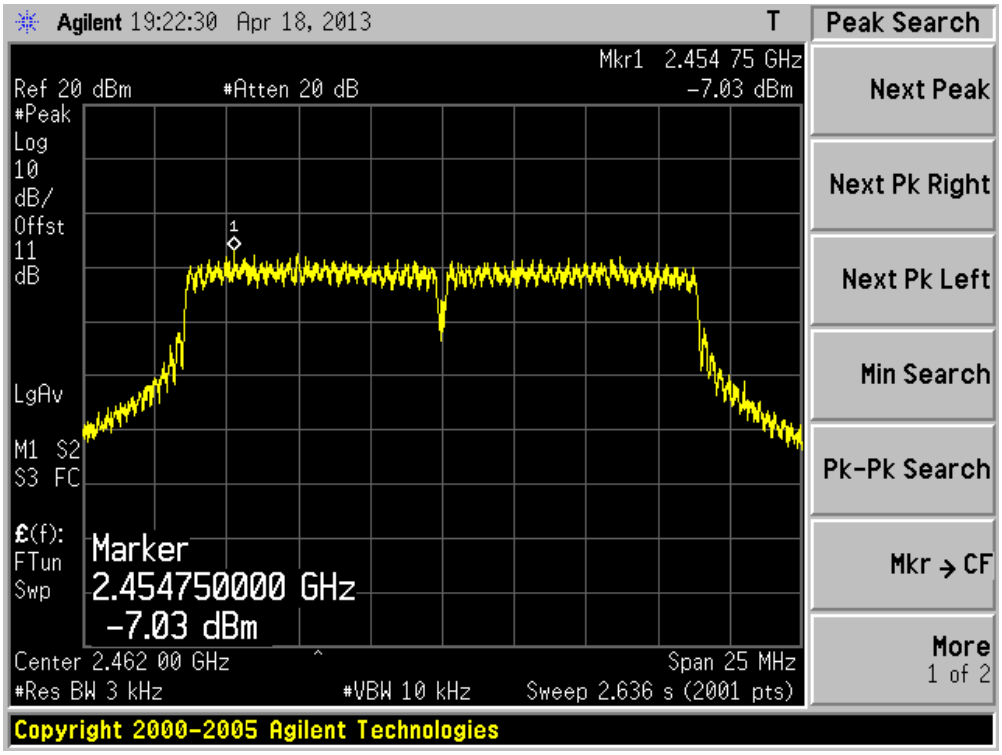

**Channel 01 (2412MHz) – Chain 2**



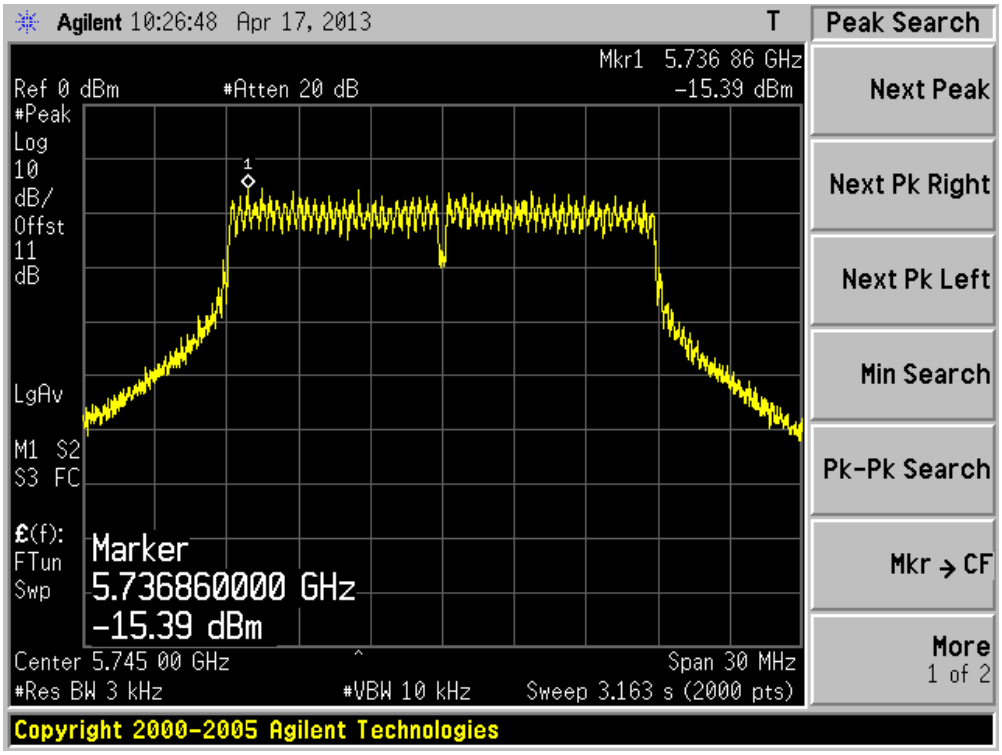
**Channel 06 (2437MHz) – Chain 2**



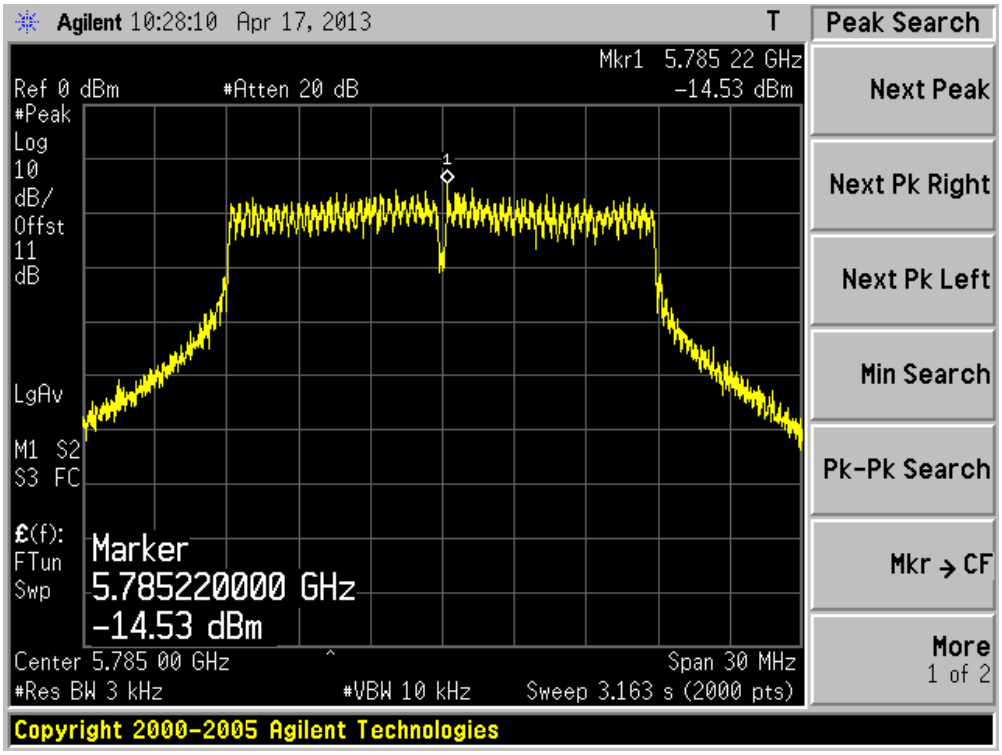

**Channel 11 (2462MHz) – Chain 2**



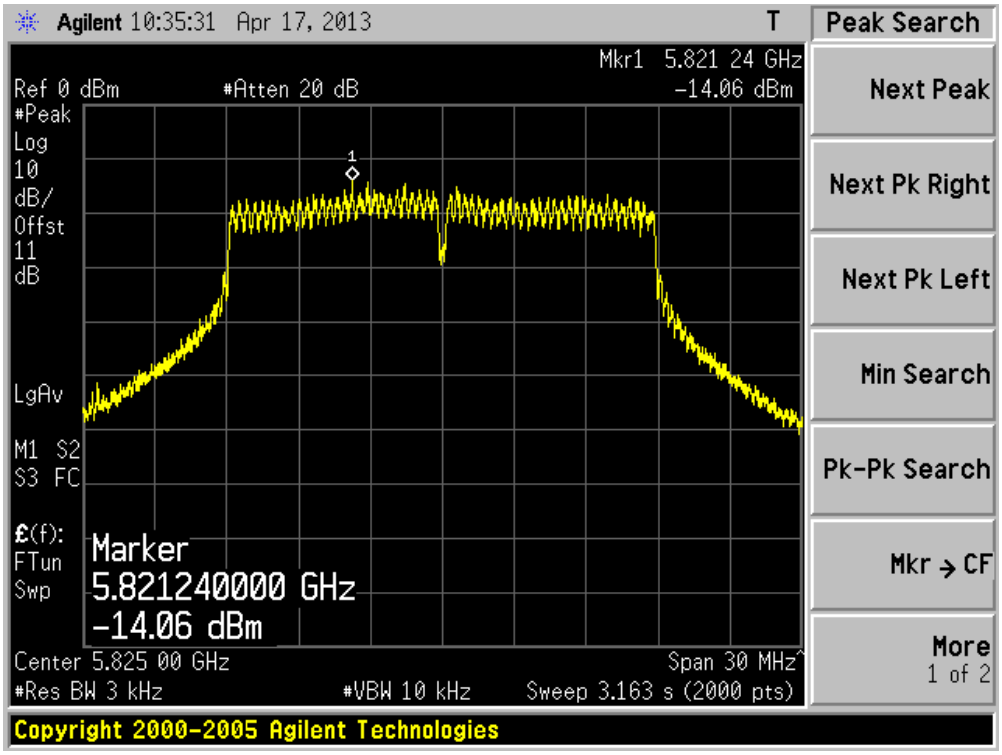
**Channel 149 (5745MHz) – Chain 2**




**Channel 157 (5785MHz) – Chain 2**



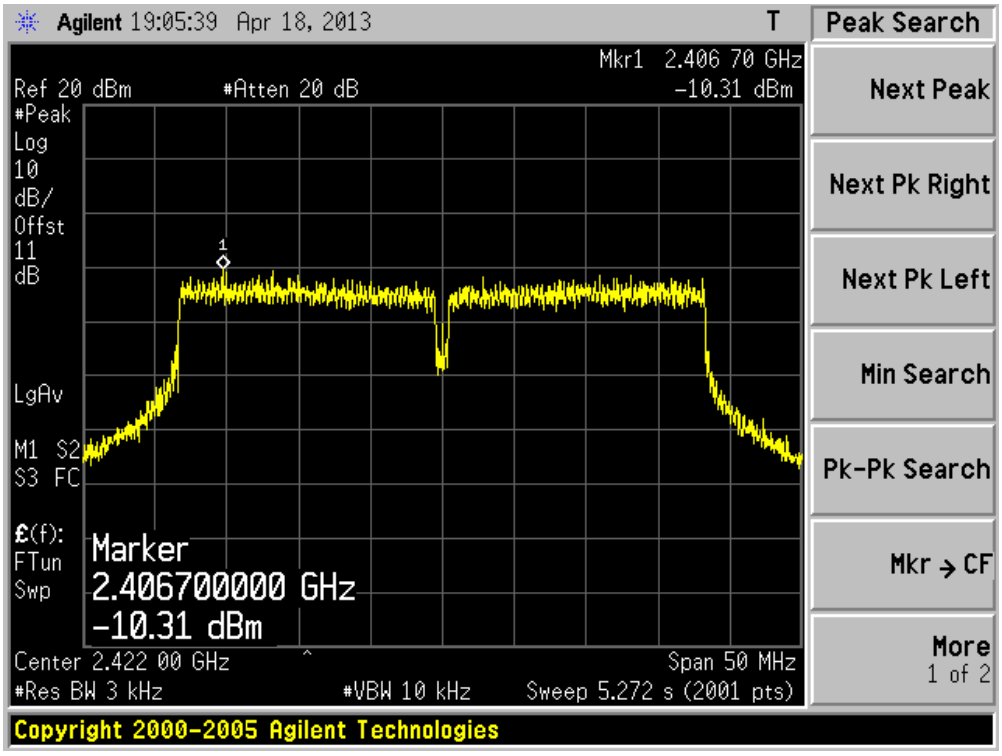
**Channel 165 (5825MHz) – Chain 2**



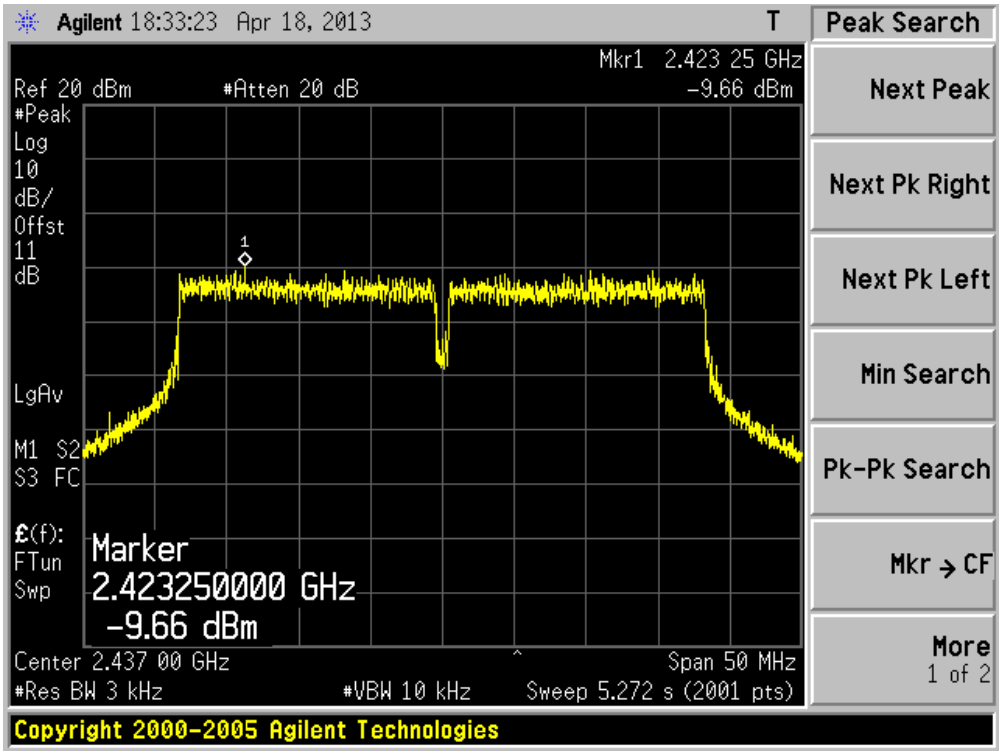
| | | |
|---|---|---|
| Product | : | WIRELESS-ABGN 3X3 NETWORK MINI PCIE ADAPTER |
| Test Item | : | Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 5: Transmit by 802.11n (40MHz) (Chain 0+1+2) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm) | | | Total PPSD (dBm) | Limit (dBm) | Result |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | Chain 2 | | | |
| 03 | 2422 | -10.31 | -10.46 | -10.07 | -5.51 | 8 | Pass |
| 06 | 2437 | -9.66 | -11.56 | -12.25 | -6.24 | 8 | Pass |
| 09 | 2452 | -10.93 | -10.38 | -11.04 | -6.00 | 8 | Pass |
| 151 | 5755 | -20.39 | -18.49 | -16.18 | -13.24 | 8 | Pass |
| 159 | 5795 | -17.46 | -18.20 | -15.04 | -11.91 | 8 | Pass |

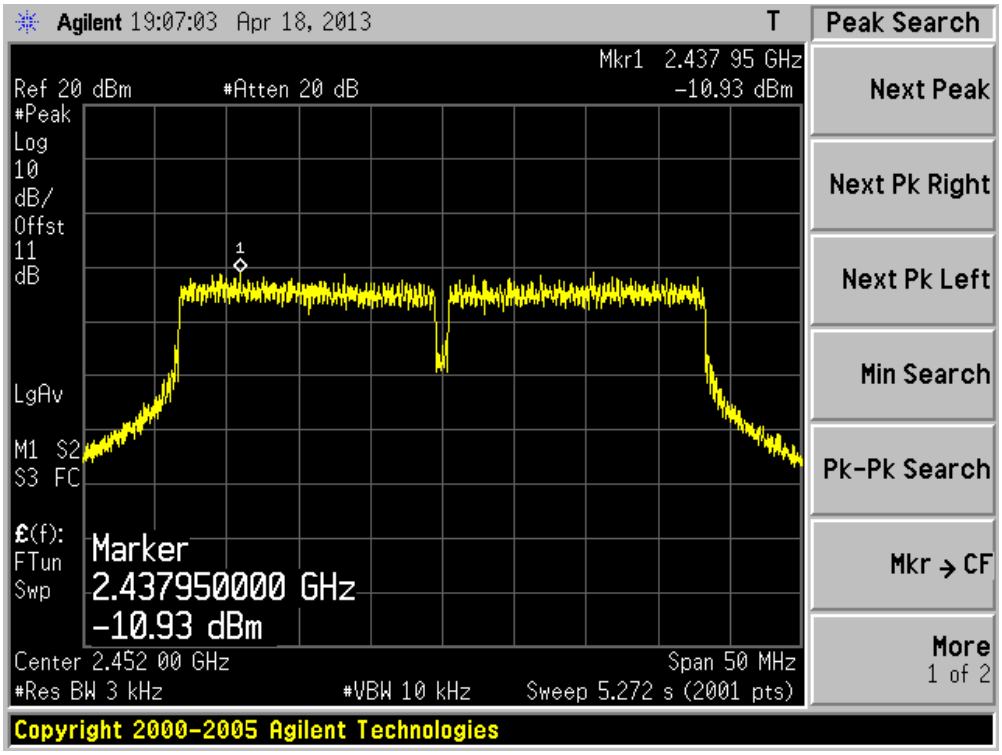
**Channel 03 (2422MHz) – Chain 0**



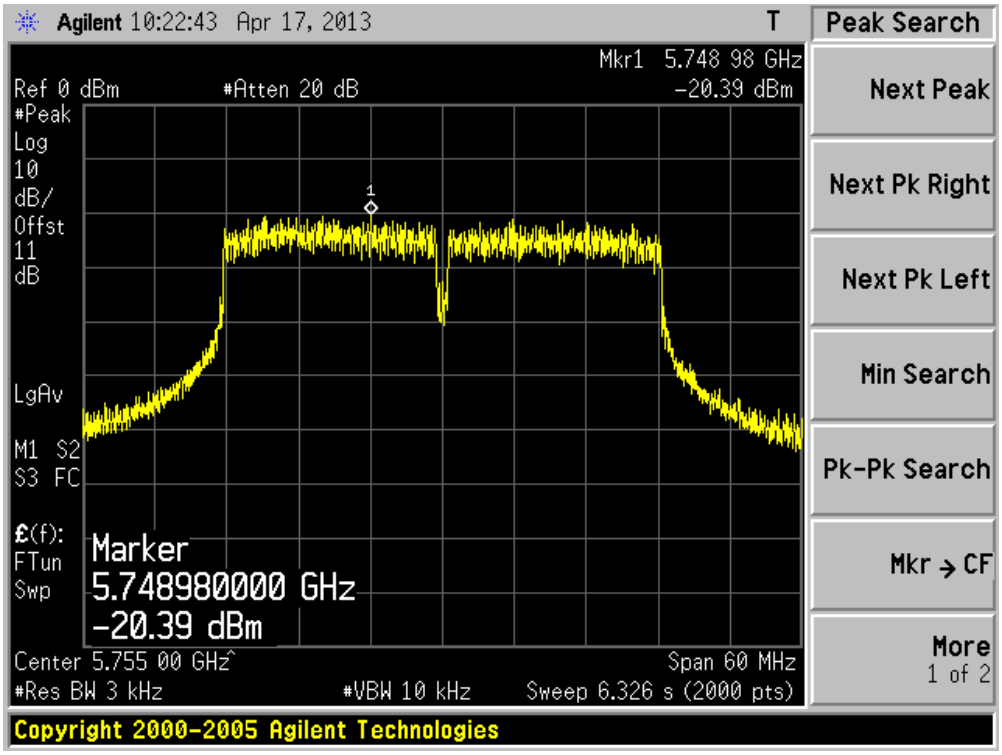
**Channel 06 (2437MHz) – Chain 0**



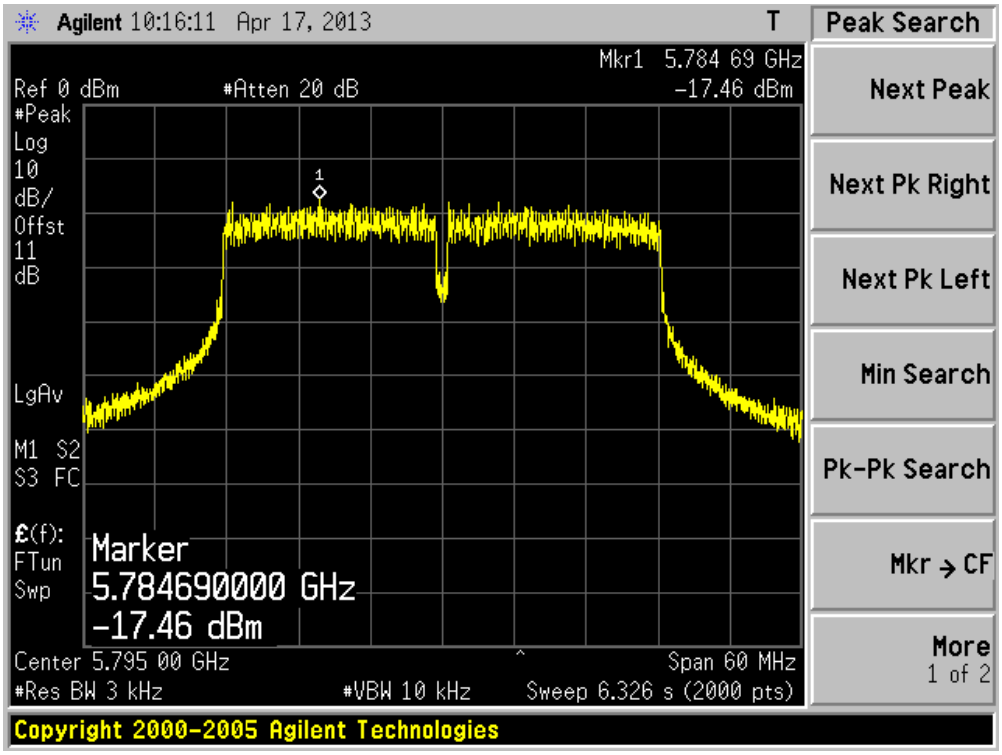

**Channel 09 (2452MHz) – Chain 0**



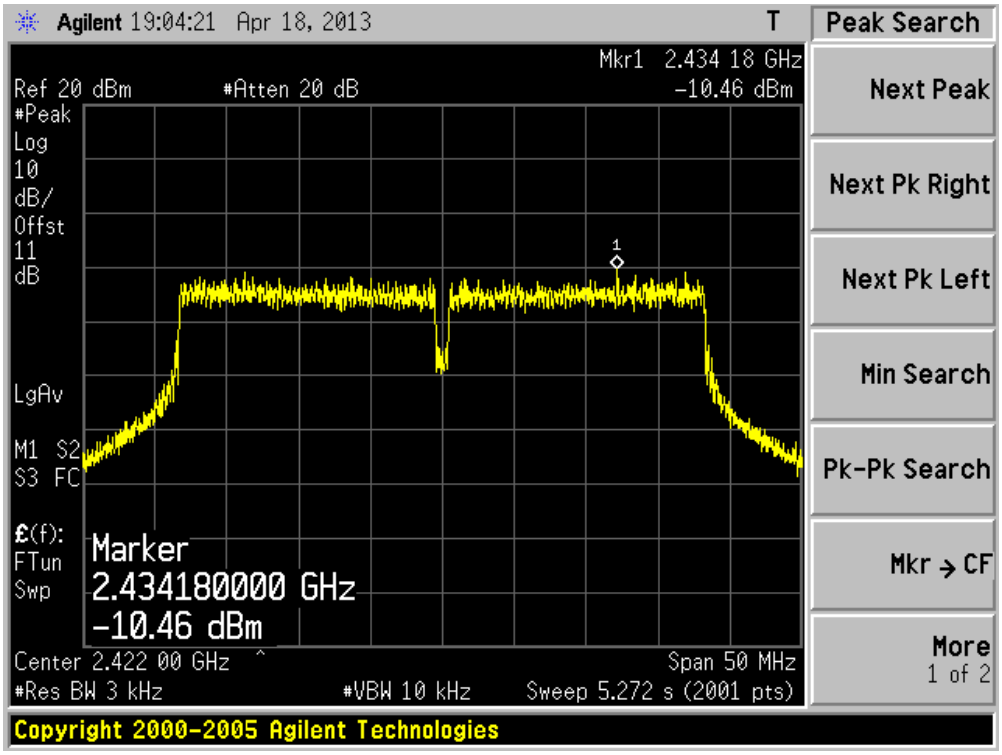
**Channel 151 (5755MHz) – Chain 0**



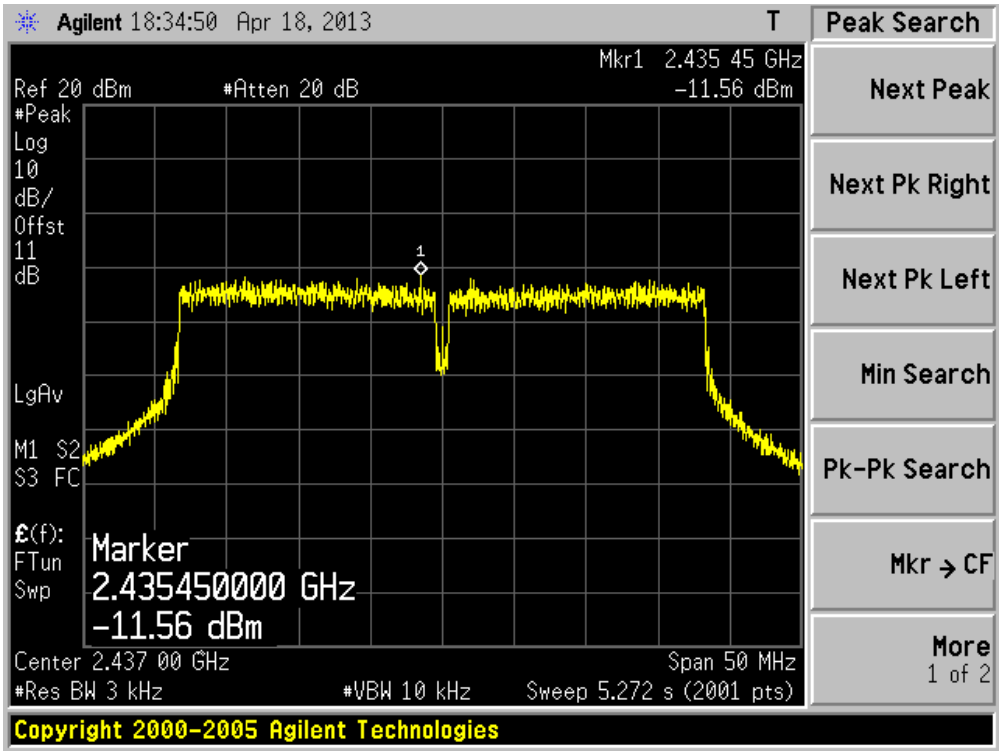

**Channel 159 (5795MHz) – Chain 0**



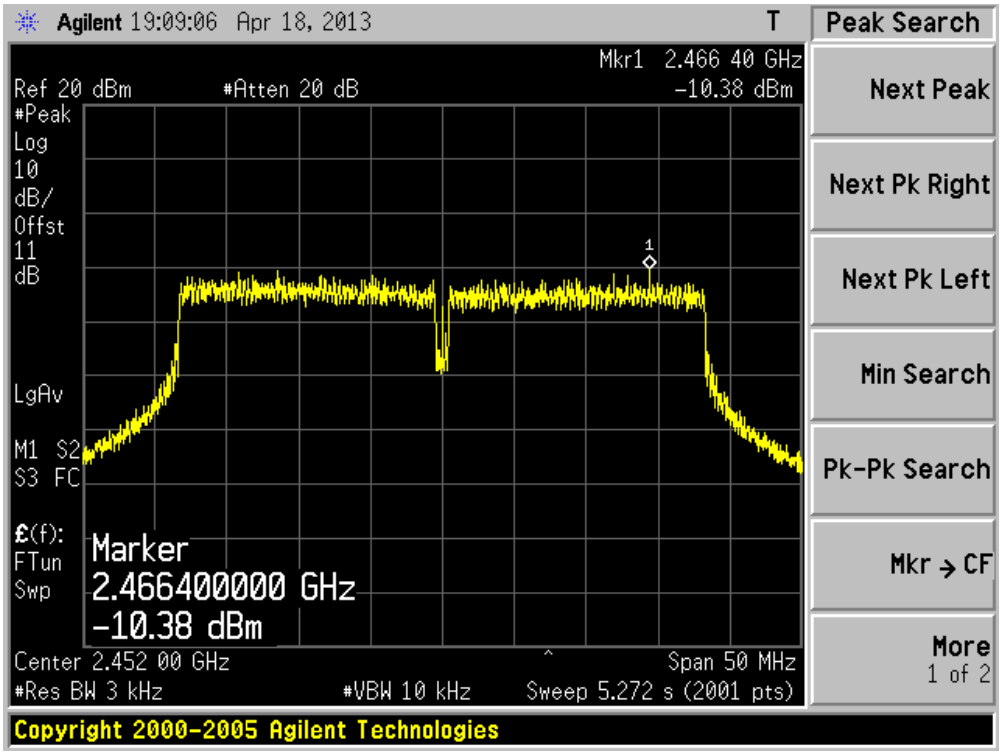
**Channel 03 (2422MHz) – Chain 1**



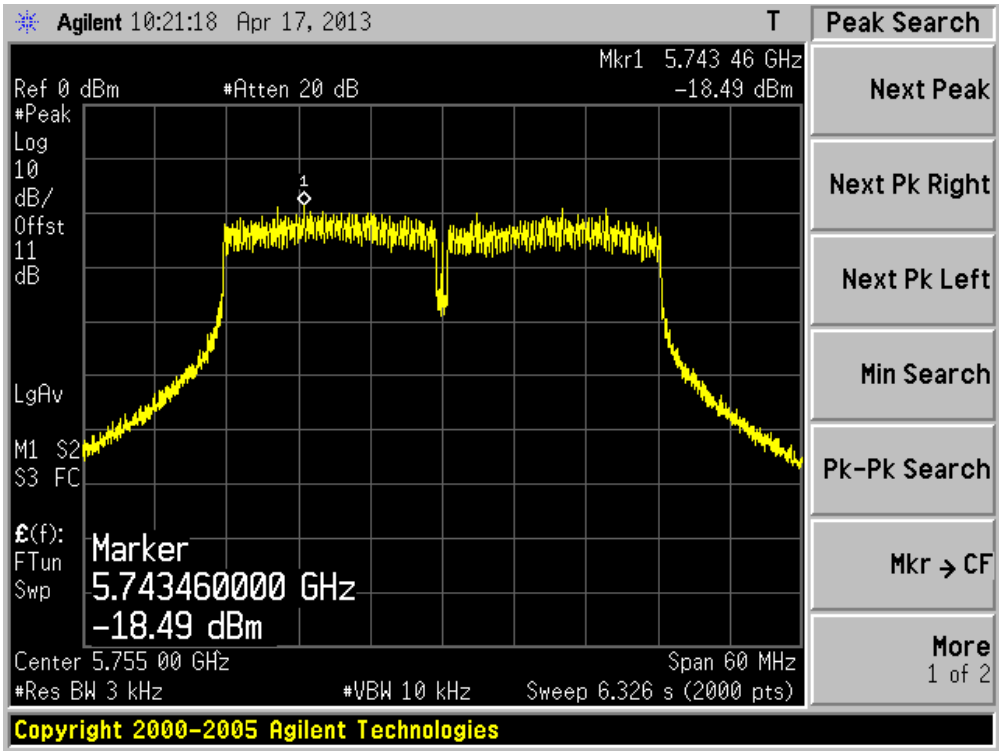
**Channel 06 (2437MHz) – Chain 1**



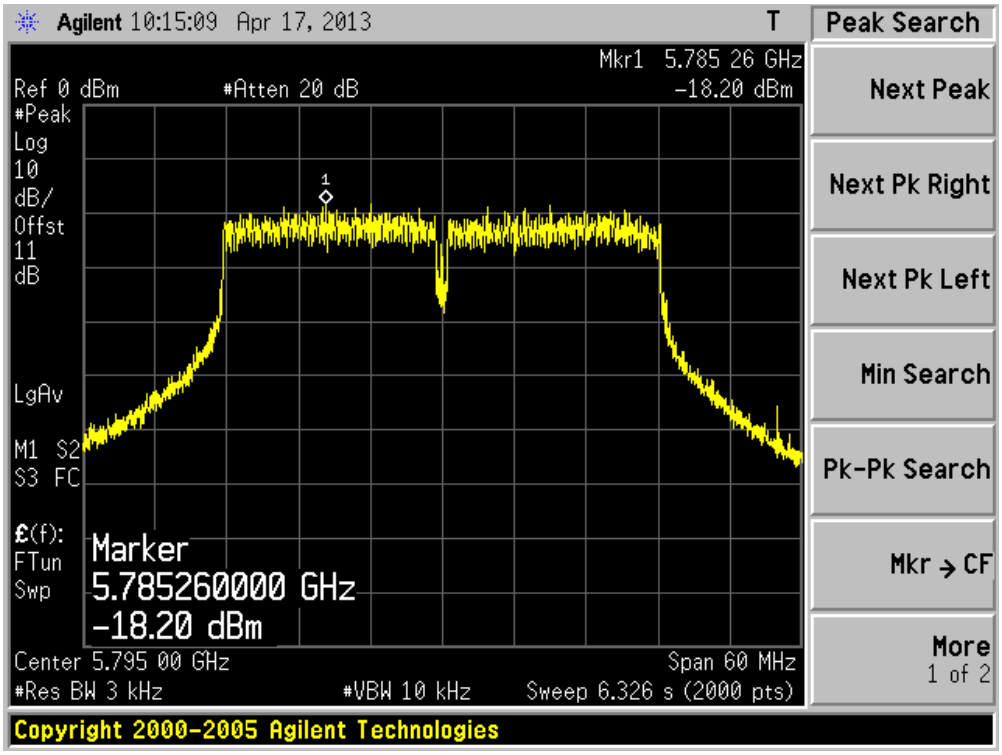

**Channel 09 (2452MHz) – Chain 1**



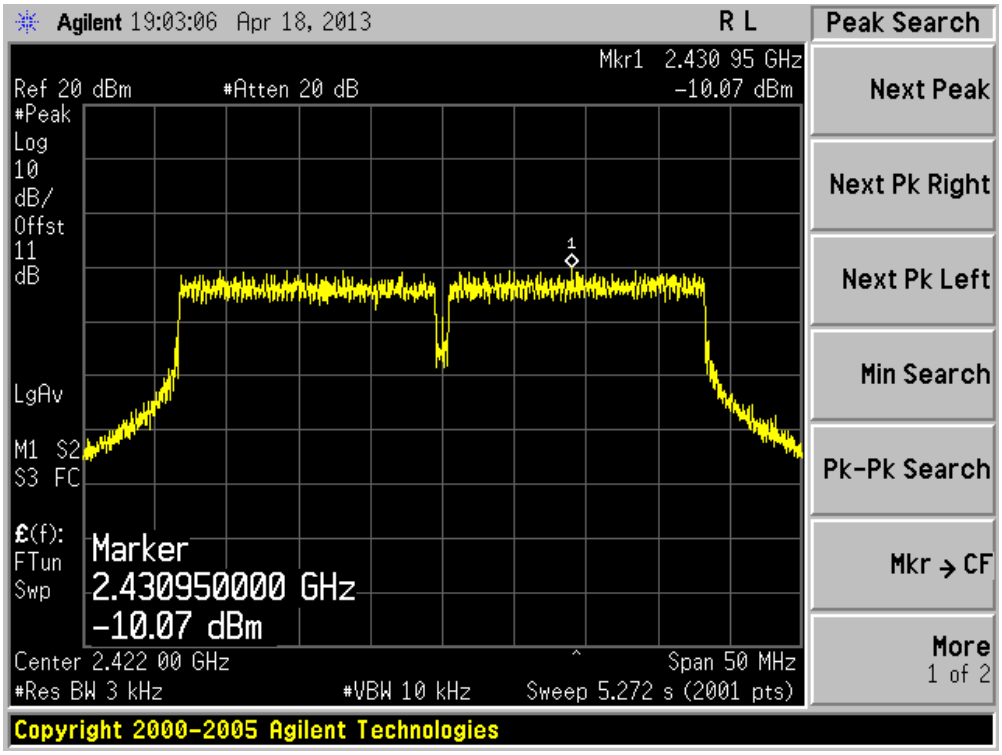
**Channel 151 (5755MHz) – Chain 1**



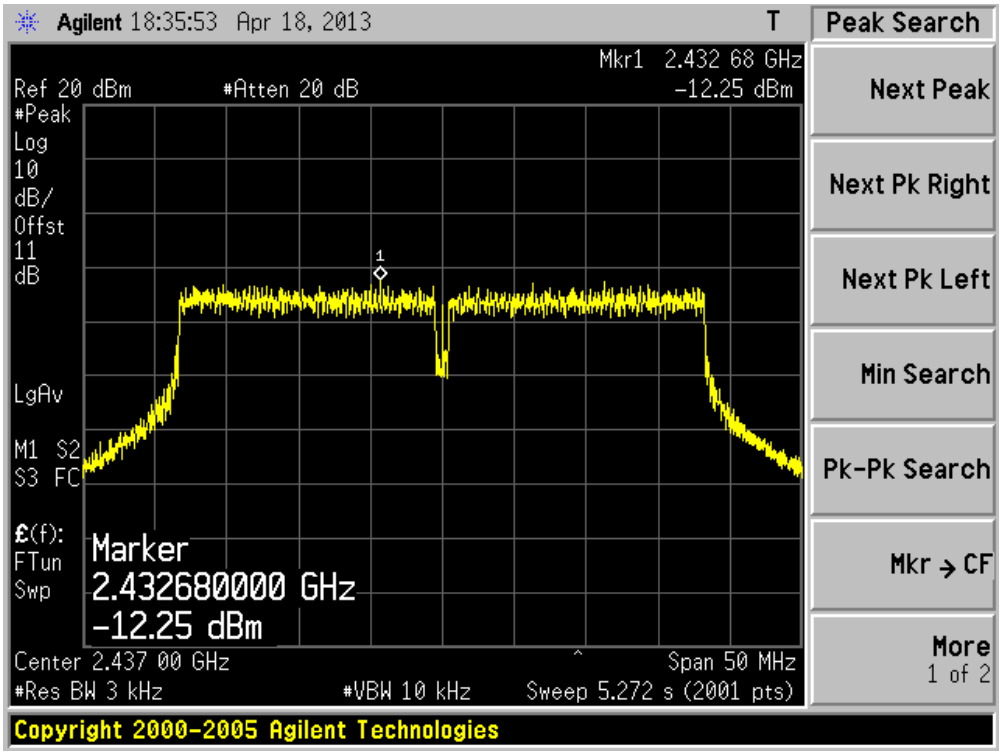

**Channel 159 (5795MHz) – Chain 1**



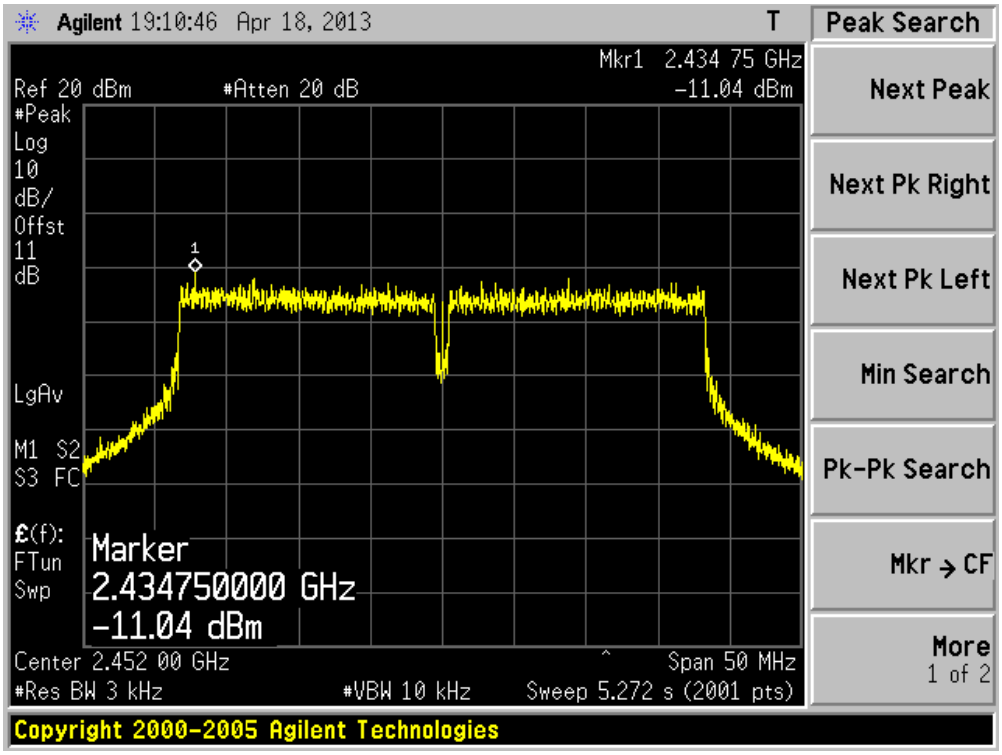
**Channel 03 (2422MHz) – Chain 2**



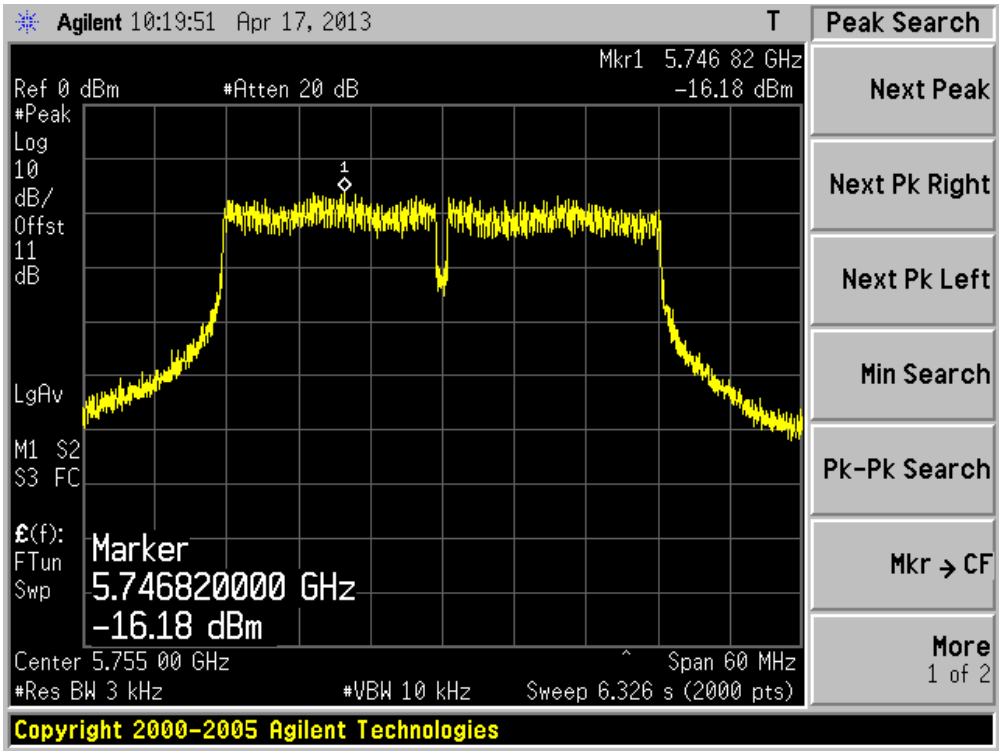

**Channel 06 (2437MHz) – Chain 2**



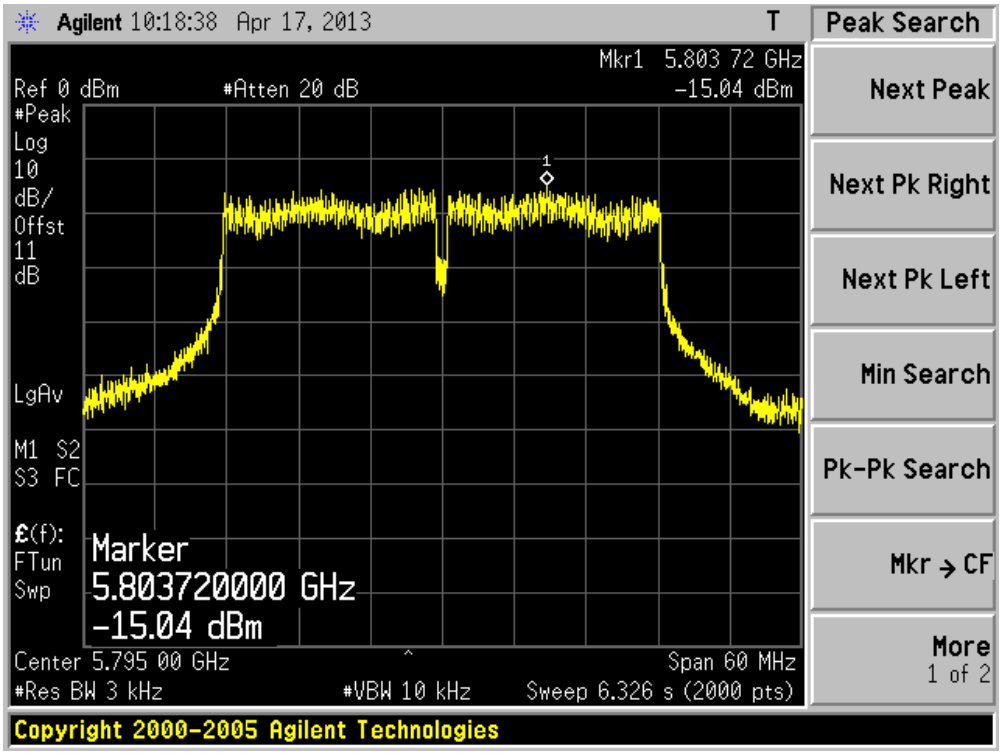
**Channel 09 (2452MHz) – Chain 2**




**Channel 151 (5755MHz) – Chain 2**



**Channel 159 (5795MHz) – Chain 2**




The End