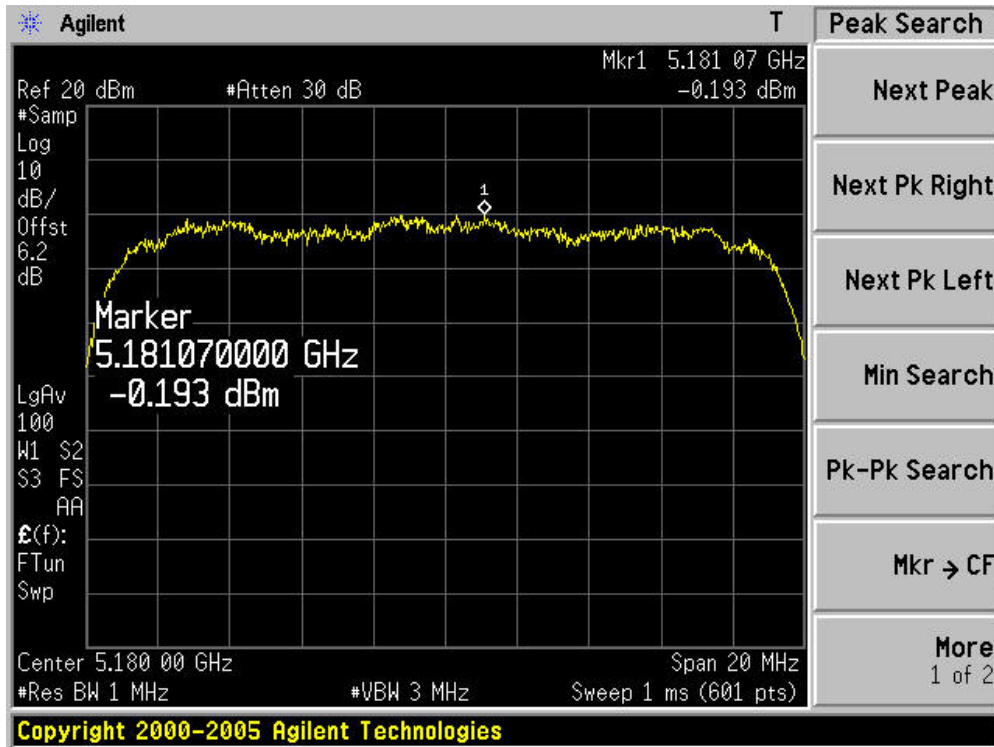
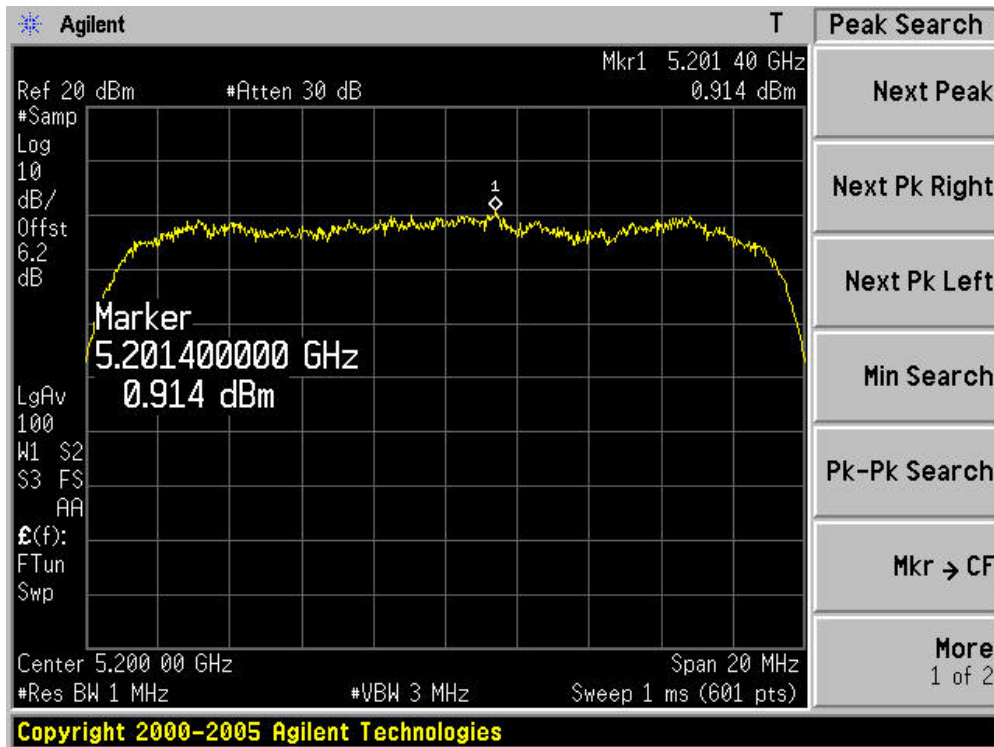


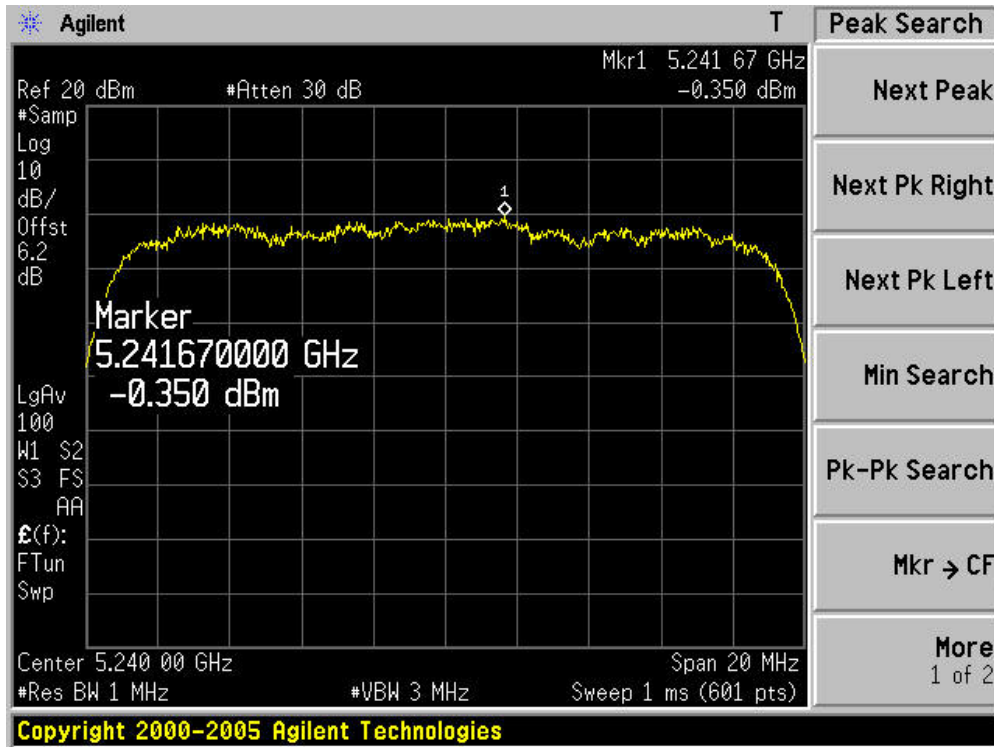
Channel 36 (5180MHz) - Ant 2



Channel 40 (5200MHz) - Ant 2



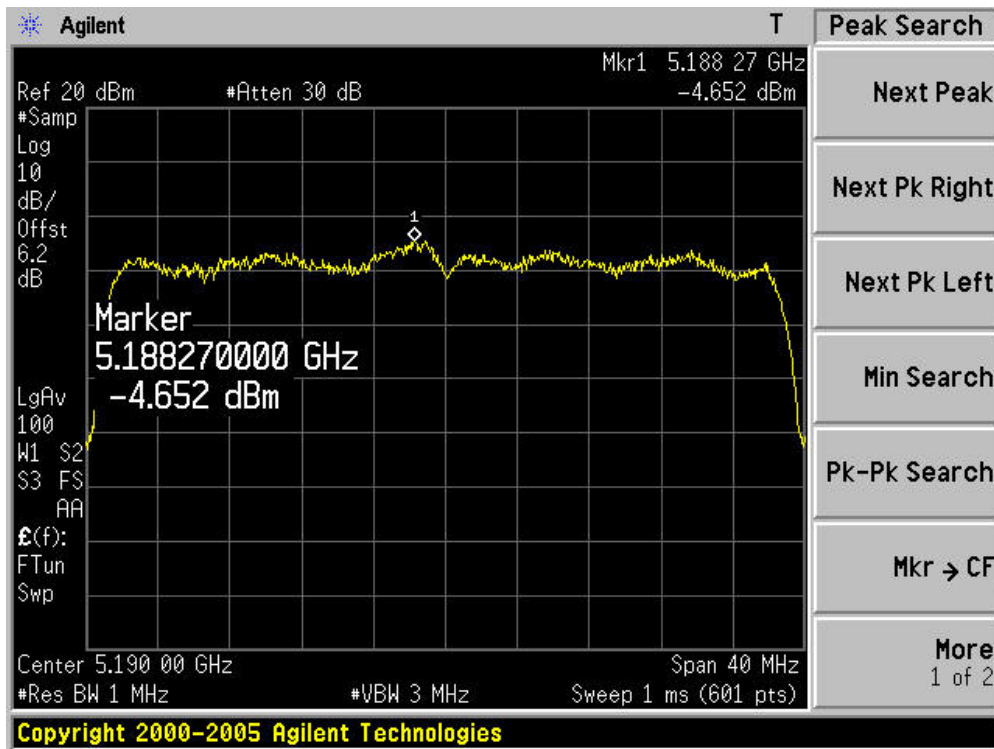
Channel 48 (5240MHz) - Ant 2



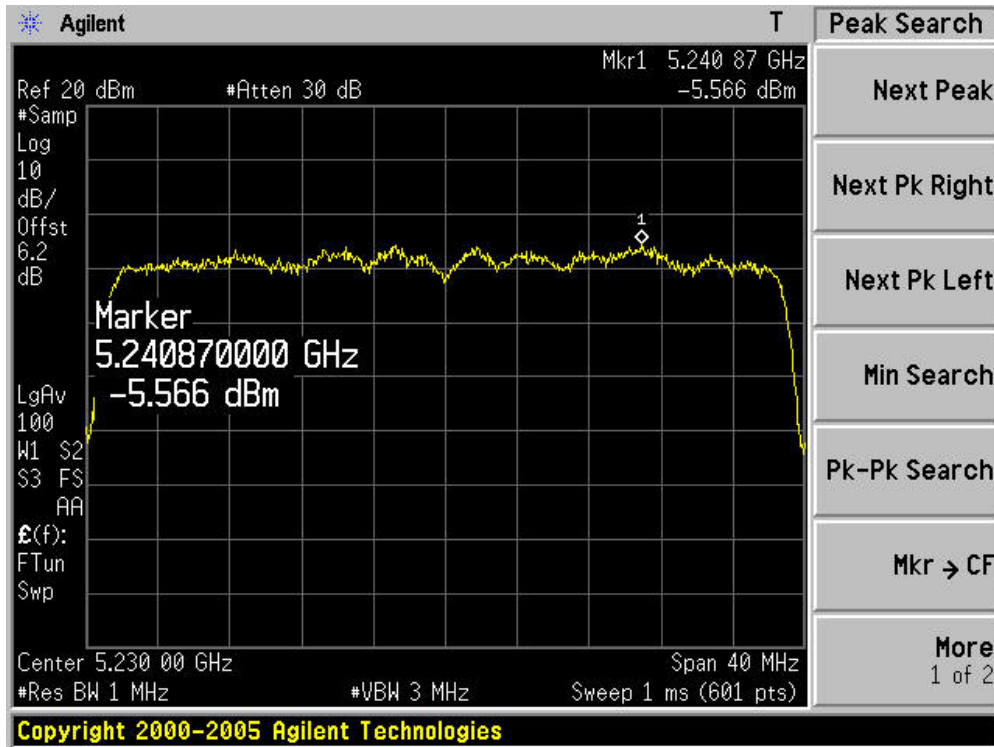
| | | |
|-----------|---|--|
| Product | : | IP-STB |
| Test Item | : | Peak Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n(40MHz) (Ant 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/MHz) | | Total PPSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------|-------|----------------------|-----------------|--------|
| | | Ant 0 | Ant 1 | | | |
| 38 | 5190 | -4.652 | N/A | -4.652 | 4.0 | Pass |
| 46 | 5230 | -5.566 | N/A | -5.566 | 4.0 | Pass |

Channel 38 (5190MHz)



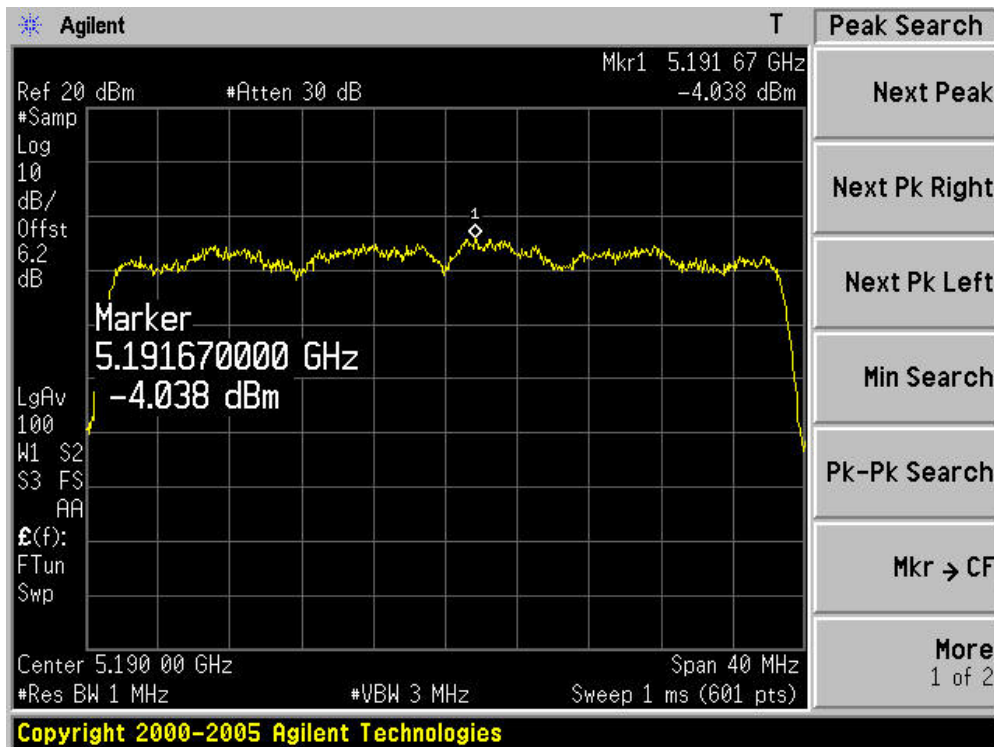
Channel 46 (5230MHz)



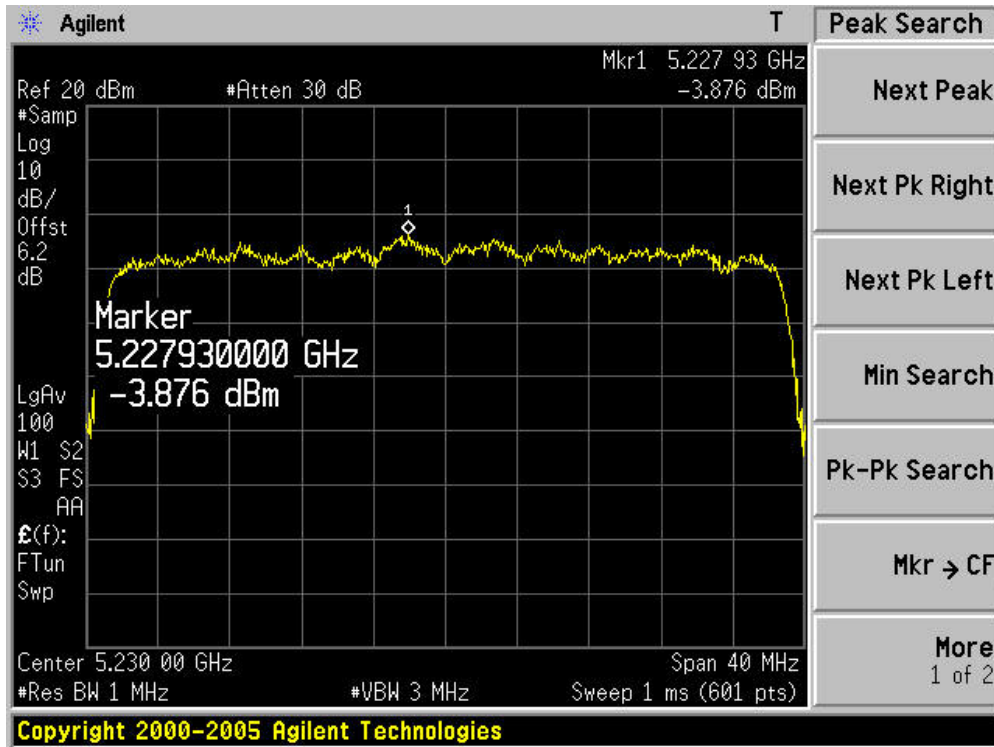
| | | |
|-----------|---|--|
| Product | : | IP-STB |
| Test Item | : | Peak Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n(40MHz) (ant 1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/MHz) | | Total PPSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------|--------|----------------------|-----------------|--------|
| | | Ant 0 | Ant 1 | | | |
| 38 | 5190 | N/A | -4.083 | -4.083 | 4.0 | Pass |
| 46 | 5230 | N/A | -3.876 | -3.876 | 4.0 | Pass |

Channel 38 (5190MHz)



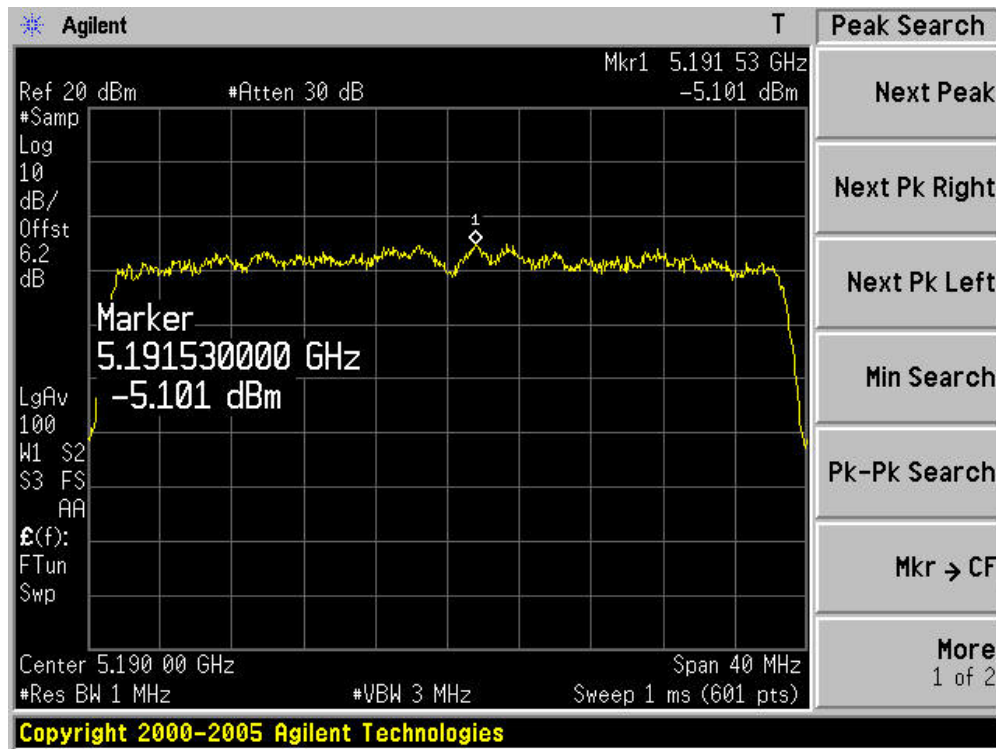
Channel 46 (5230MHz)



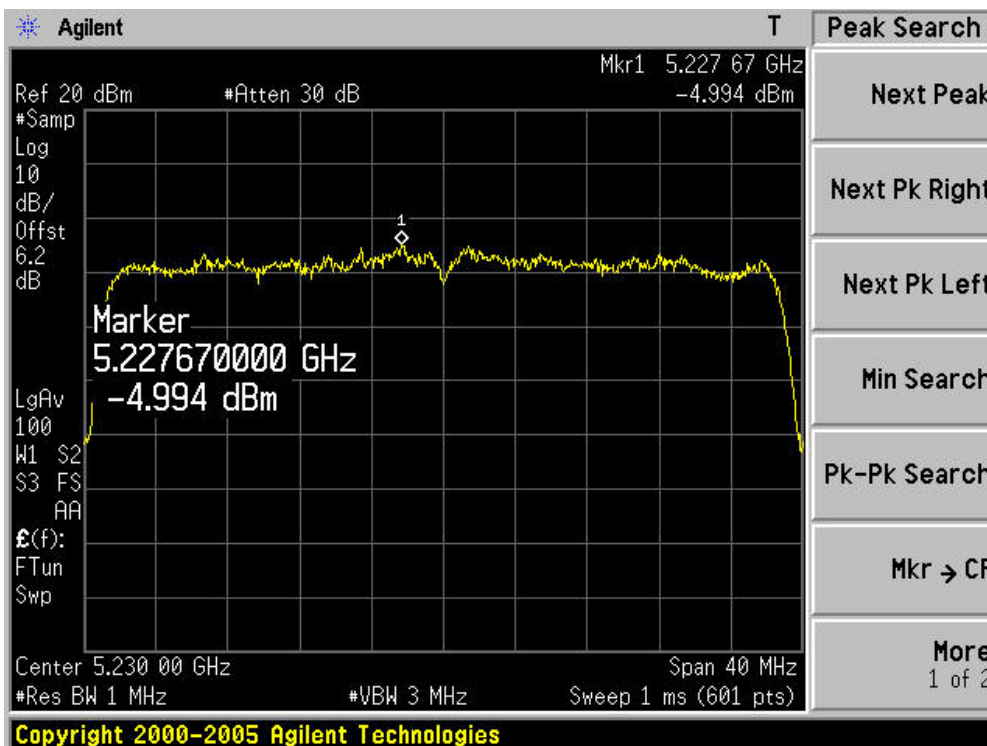
| | | |
|-----------|---|---|
| Product | : | IP-STB |
| Test Item | : | Peak Power Spectral Density |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n(40MHz) (ant0+1) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/MHz) | | Total PPSD (dBm/MHz) | Limit (dBm/MHz) | Result |
|-------------|-----------------|----------------------------|--------|----------------------|-----------------|--------|
| | | Ant 0 | Ant 1 | | | |
| 38 | 5190 | -5.101 | -3.379 | -1.140 | 4.0 | Pass |
| 46 | 5230 | -4.994 | -3.911 | -1.410 | 4.0 | Pass |

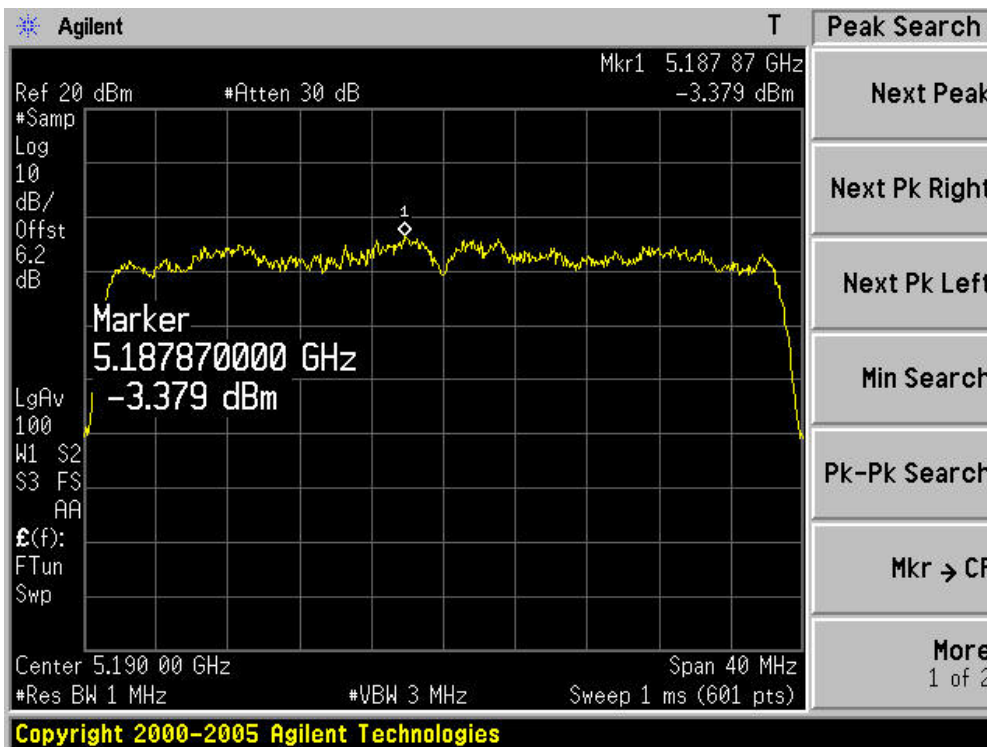
Channel 38 (5190MHz) – Ant 1



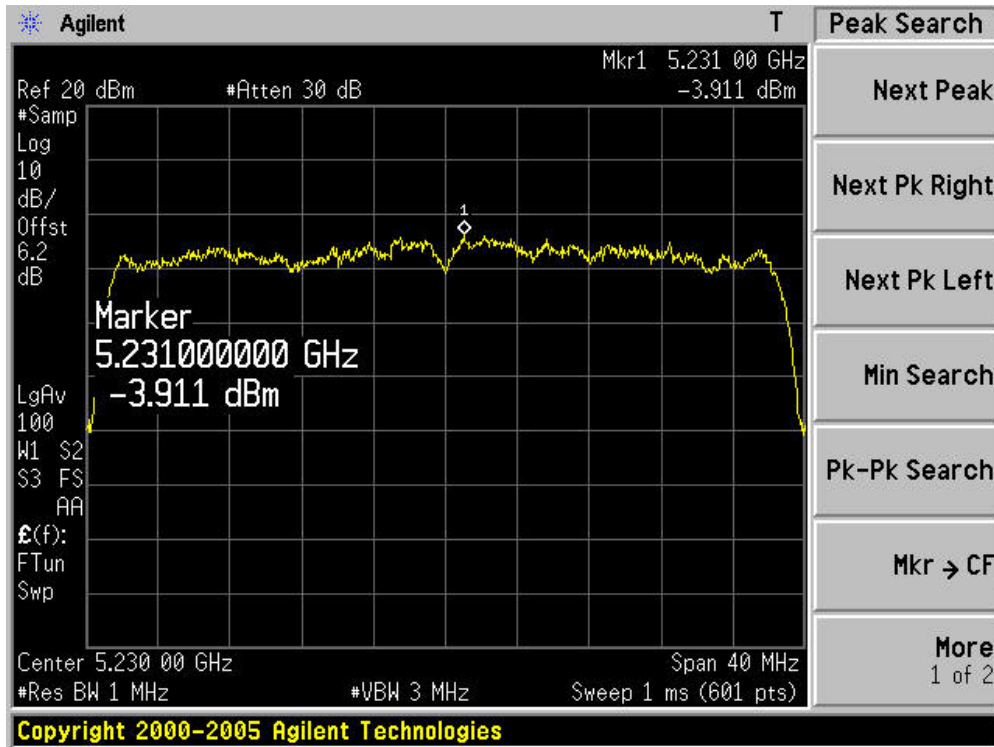
Channel 46 (5230MHz) - Ant 1



Channel 38 (5190MHz) - Ant 2



Channel 46 (5230MHz) - Ant 2



9. Peak Excursion

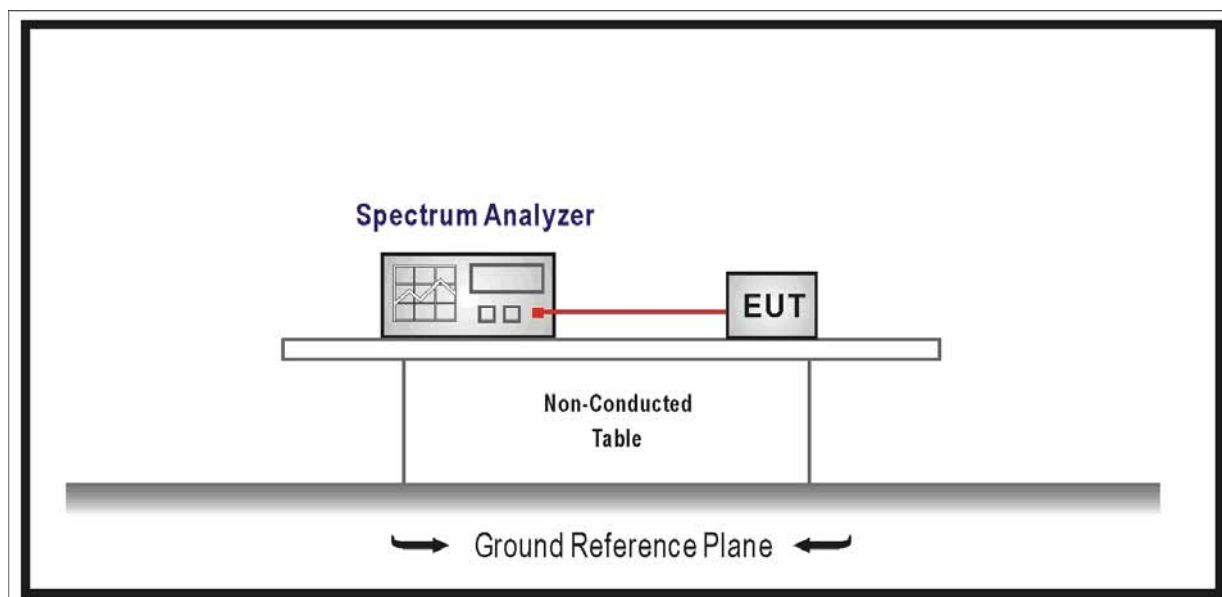
9.1. Test Equipment

Peak Excursion / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|----------------------------|--------------|----------|------------|------------|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2015.01.07 |
| 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 ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power (measured as specified above) shall not exceed 13 dB across any 1 MHz bandwidth or the emission bandwidth whichever is less.

9.4. Test Procedure

The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

Set the spectrum analyzer span to view the entire emission bandwidth. The largest difference between the following two traces must be ≤ 13 dB for all frequencies across the emission bandwidth.

- 1st Trace: Set RBW = 1 MHz, VBW ≥ 3 MHz with peak detector and max-hold settings.
- 2nd Trace: The result is the peak value of the PPSD.

9.5. Uncertainty

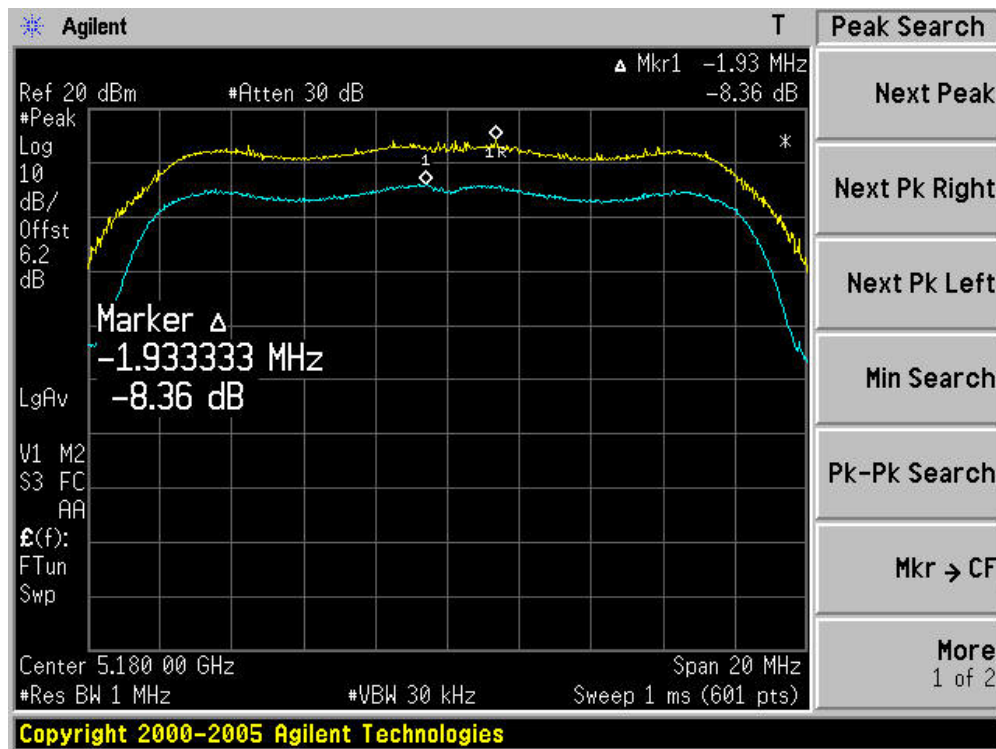
The measurement uncertainty is defined as ± 1.27 dB

9.6. Test Result

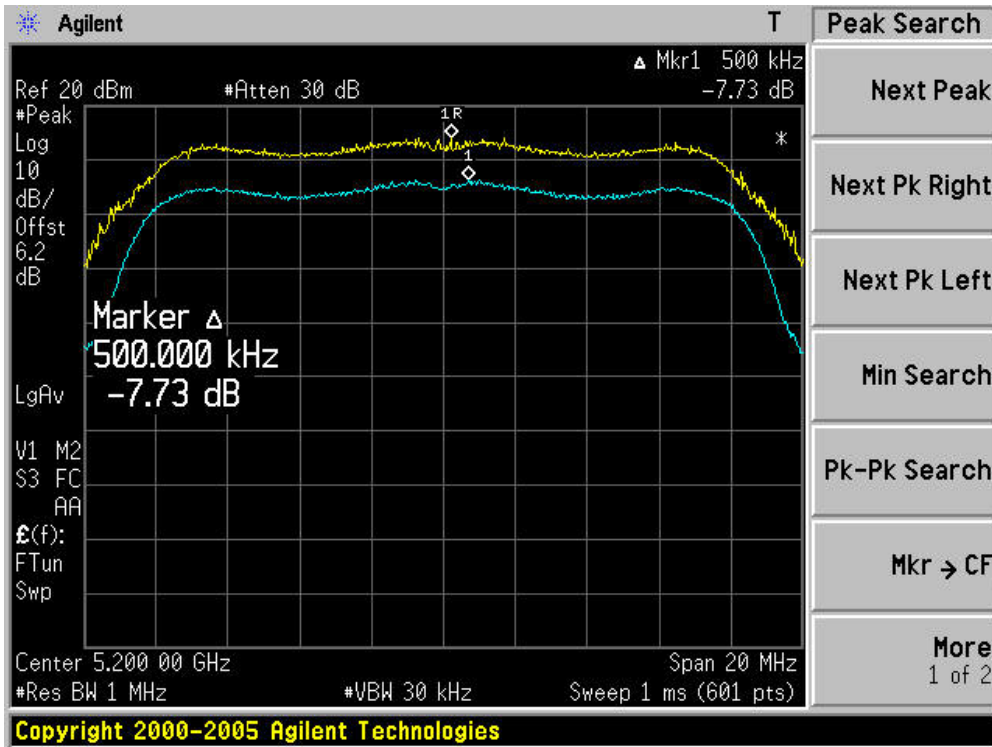
| | | |
|-----------|---|-------------------------------------|
| Product | : | IP-STB |
| Test Item | : | Peak Excursion |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11a (ant 0) |

| Channel No. | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Result |
|-------------|-----------------|---------------------|------------|--------|
| 36 | 5180 | 8.36 | 13 | Pass |
| 40 | 5200 | 7.73 | 13 | Pass |
| 48 | 5240 | 7.23 | 13 | Pass |

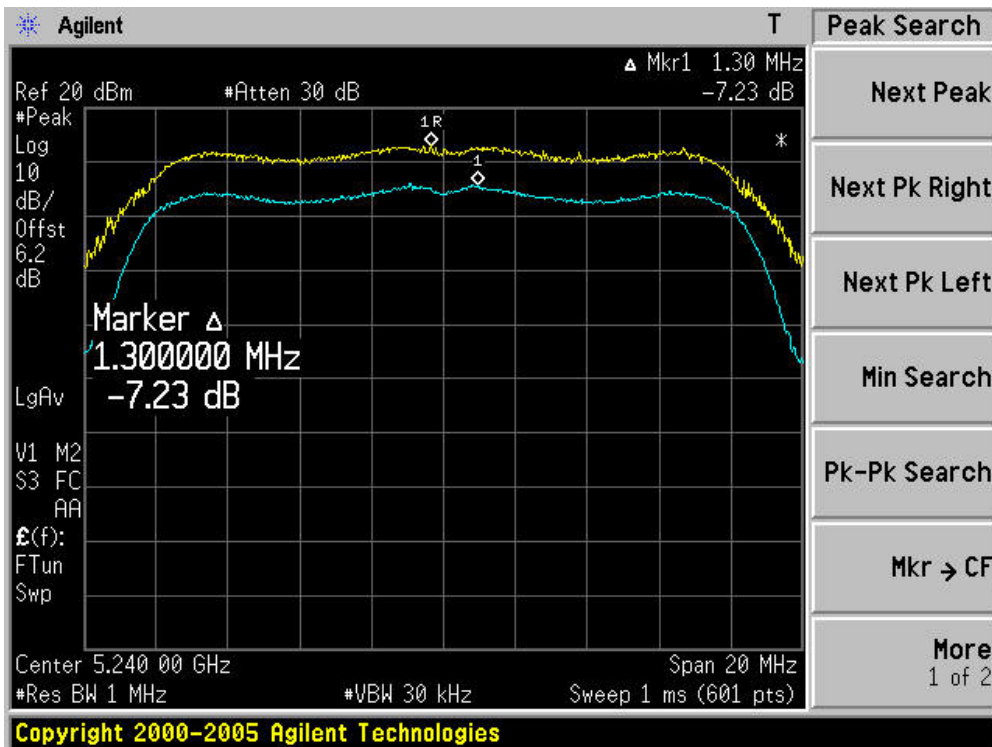
Channel 36 (5180MHz)



Channel 40 (5200MHz)



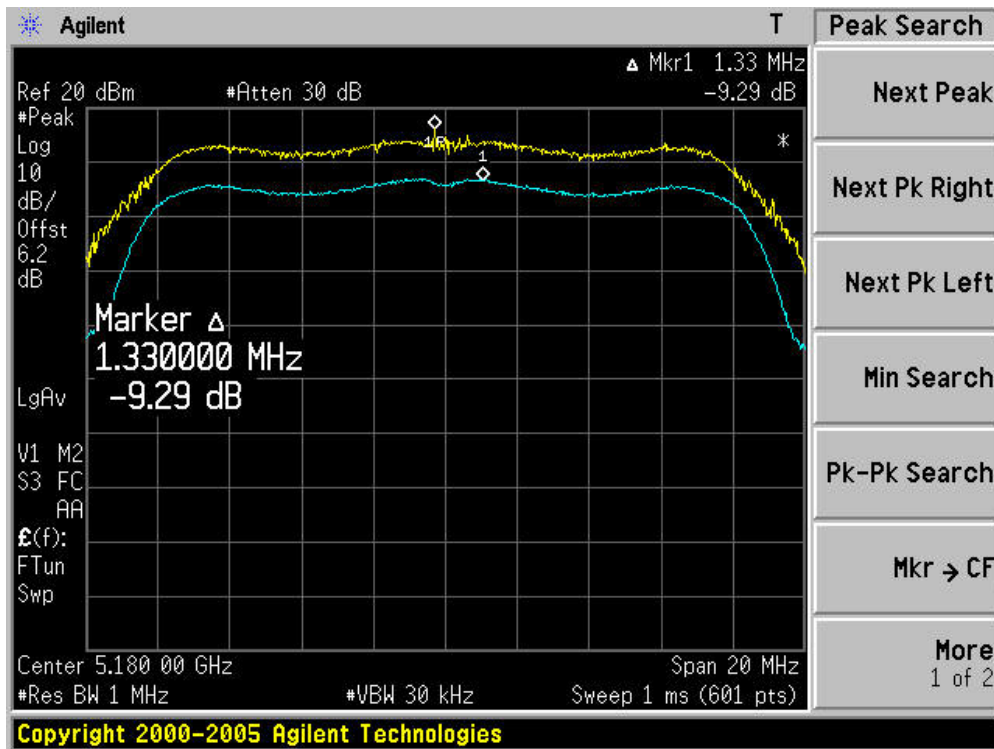
Channel 48 (5240MHz)



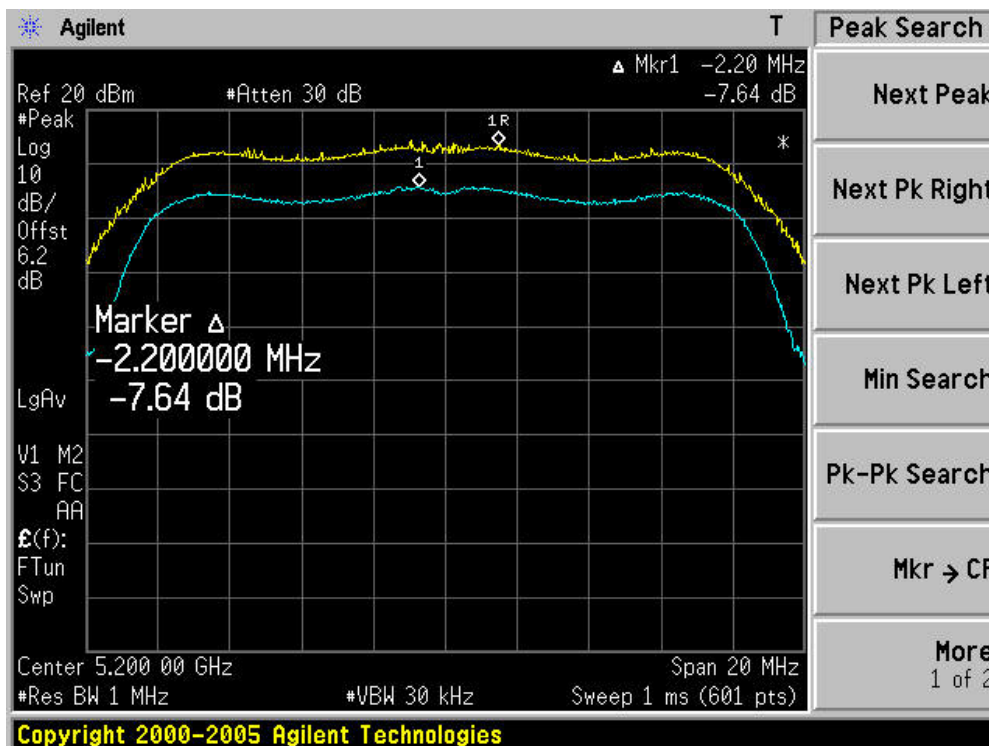
| | | |
|-----------|---|-------------------------------------|
| Product | : | IP-STB |
| Test Item | : | Peak Excursion |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 1: Transmit by 802.11a (ant 1) |

| Channel No. | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Result |
|-------------|-----------------|---------------------|------------|--------|
| 36 | 5180 | 9.29 | 13 | Pass |
| 40 | 5200 | 7.64 | 13 | Pass |
| 48 | 5240 | 7.88 | 13 | Pass |

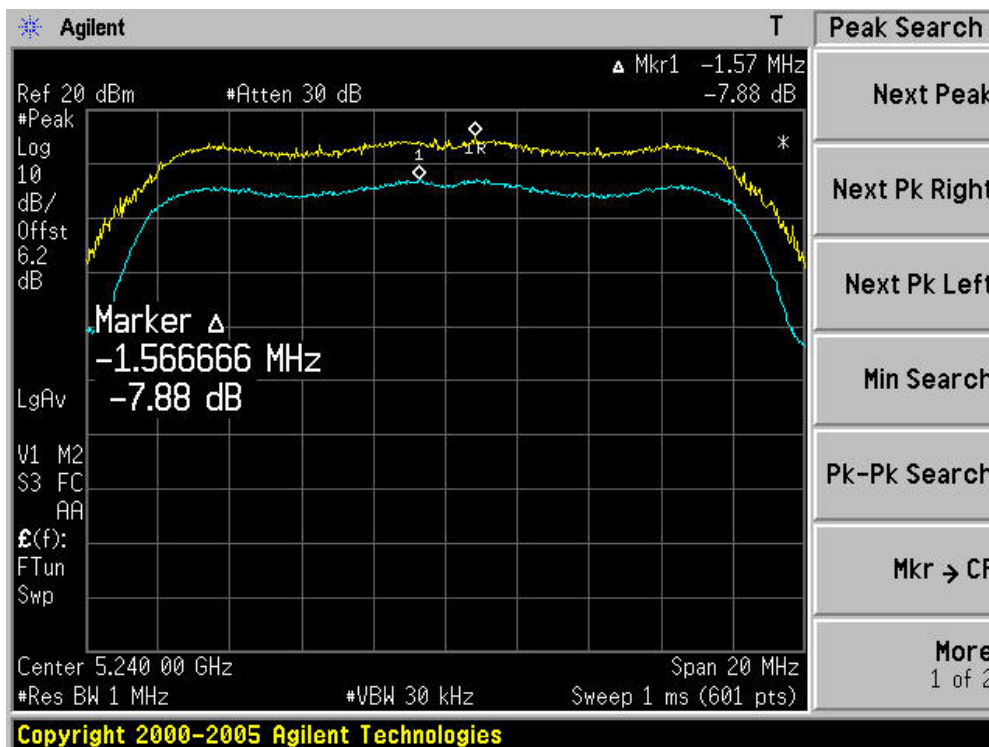
Channel 36 (5180MHz)



Channel 40 (5200MHz)



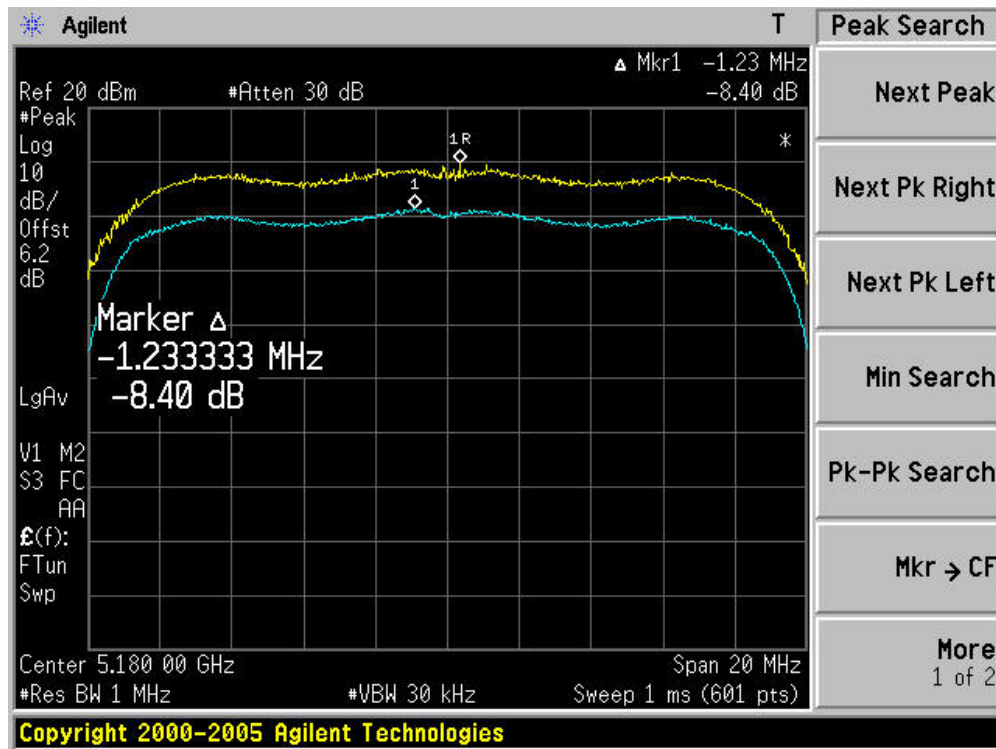
Channel 48 (5240MHz)



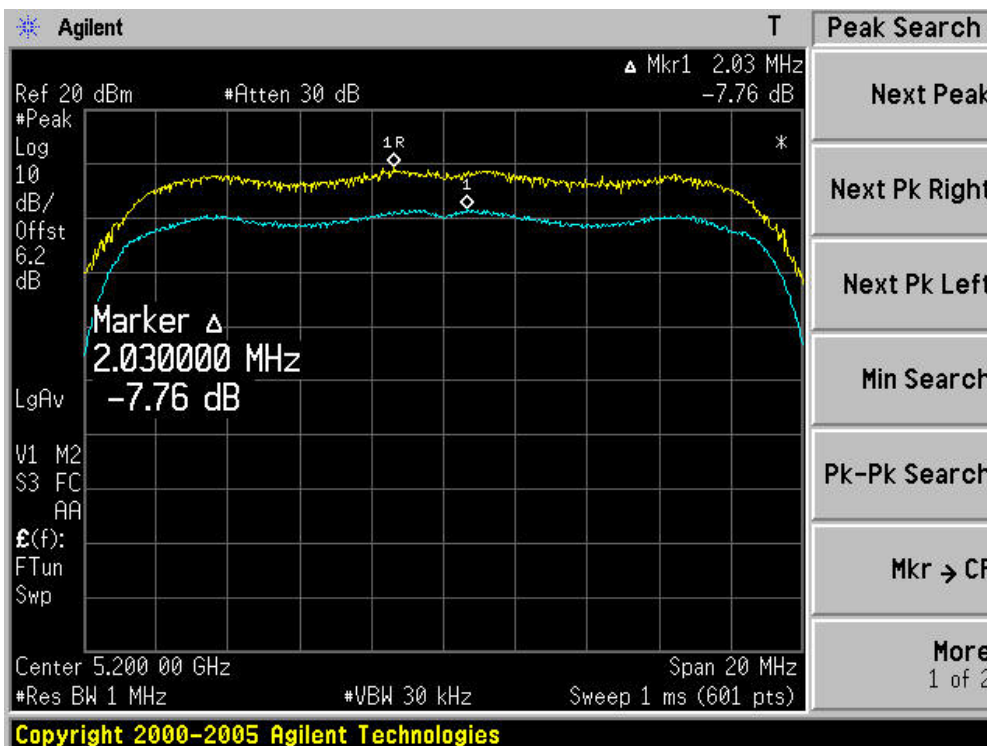
| | | |
|-----------|---|---|
| Product | : | IP-STB |
| Test Item | : | Peak Excursion |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11n (20MHz) (ant 0) |

| Channel No. | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Result |
|-------------|-----------------|---------------------|------------|--------|
| 36 | 5180 | 8.40 | 13 | Pass |
| 40 | 5200 | 7.76 | 13 | Pass |
| 48 | 5240 | 7.49 | 13 | Pass |

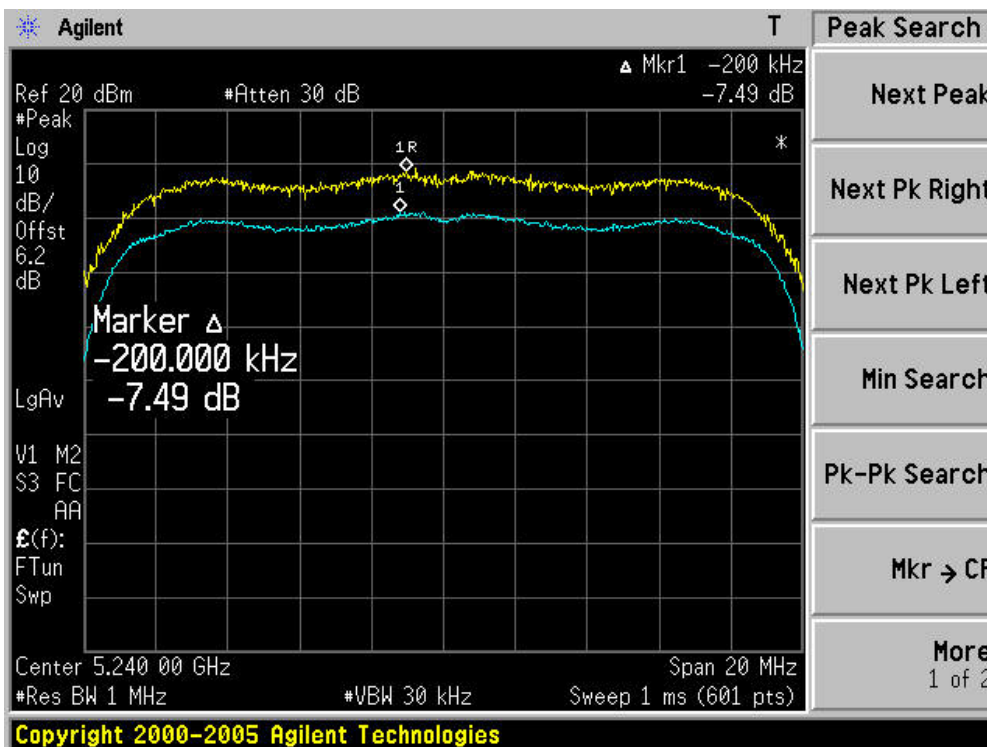
Channel 36 (5180MHz)



Channel 40 (5200MHz)



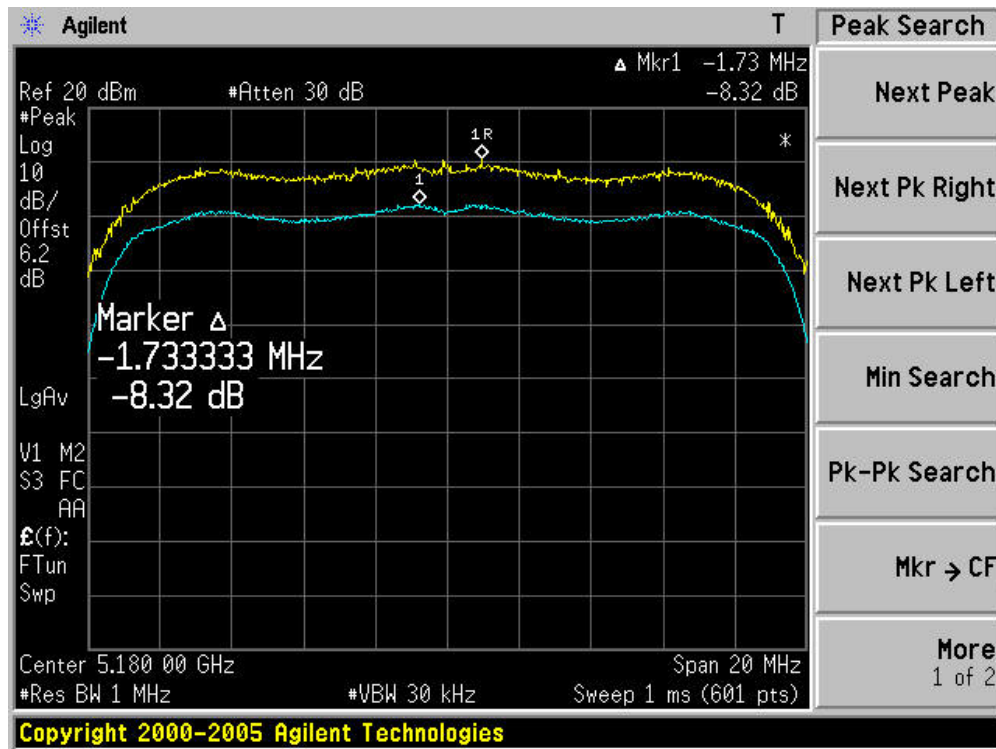
Channel 48 (5240MHz)



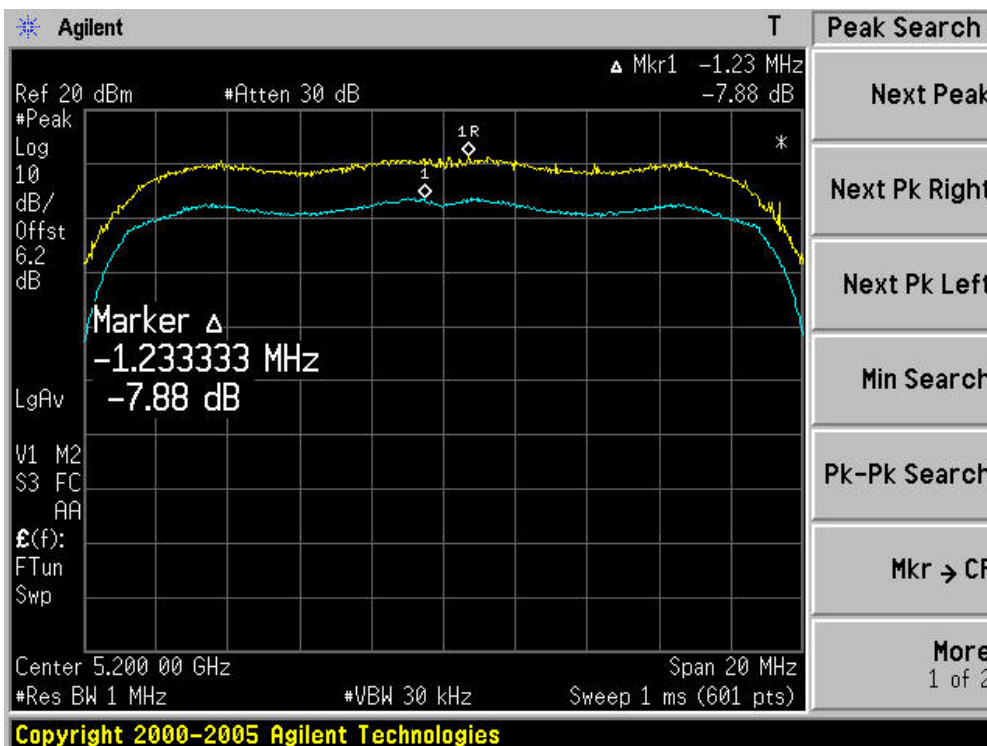
| | | |
|-----------|---|---|
| Product | : | IP-STB |
| Test Item | : | Peak Excursion |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 2: Transmit by 802.11n (20MHz) (ant 1) |

| Channel No. | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Result |
|-------------|-----------------|---------------------|------------|--------|
| 36 | 5180 | 8.32 | 13 | Pass |
| 40 | 5200 | 7.88 | 13 | Pass |
| 48 | 5240 | 7.62 | 13 | Pass |

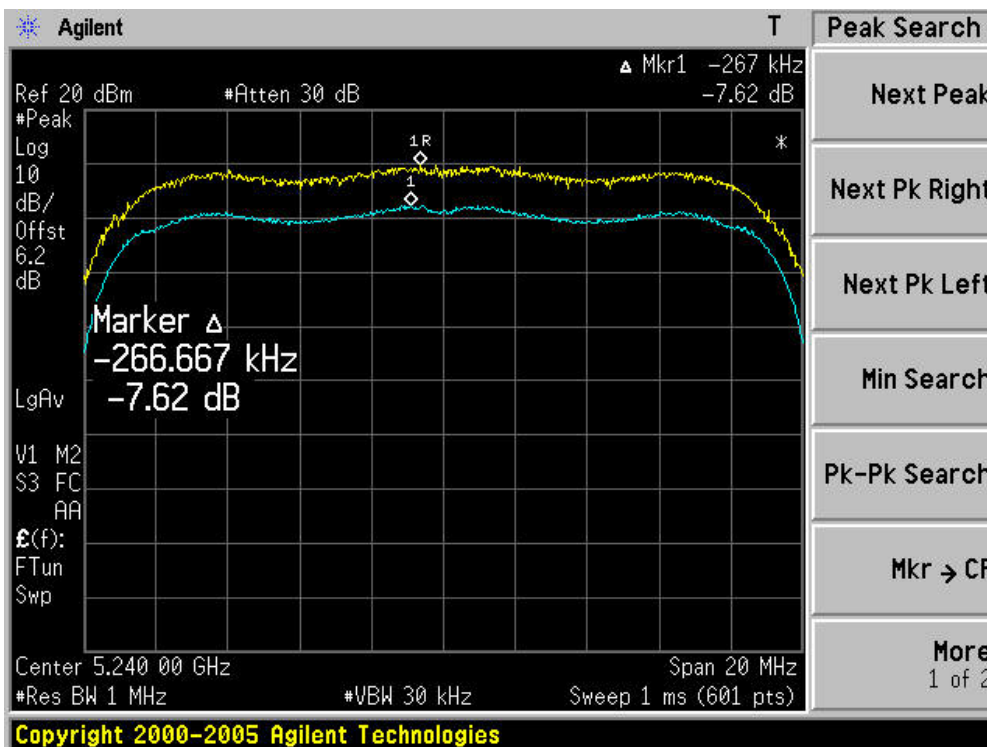
Channel 36 (5180MHz)



Channel 40 (5200MHz)



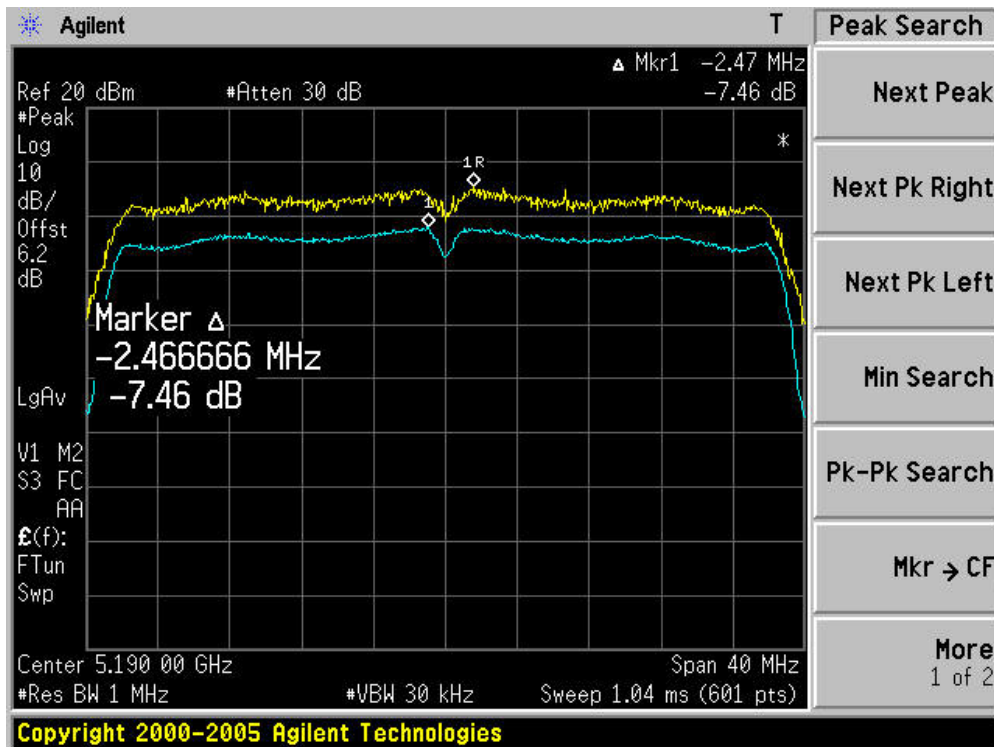
Channel 48 (5240MHz)



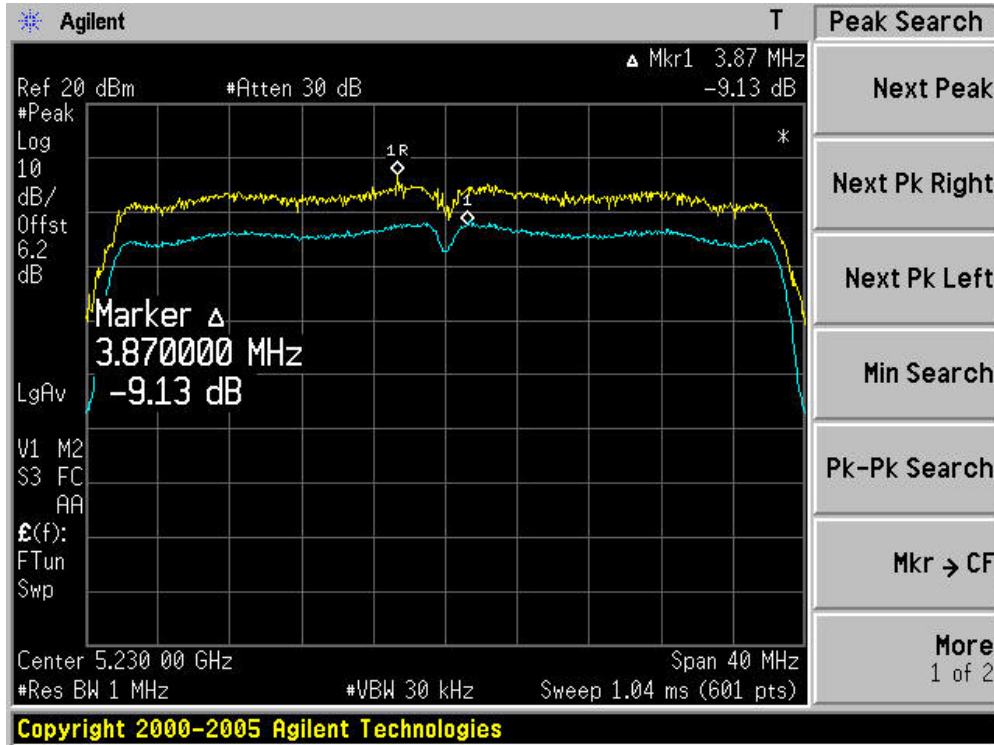
| | | |
|-----------|---|---|
| Product | : | IP-STB |
| Test Item | : | Peak Excursion |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n (40MHz) (ant 0) |

| Channel No. | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Result |
|-------------|-----------------|---------------------|------------|--------|
| 38 | 5190 | 7.46 | 13 | Pass |
| 46 | 5230 | 9.13 | 13 | Pass |

Channel 38 (5190MHz)



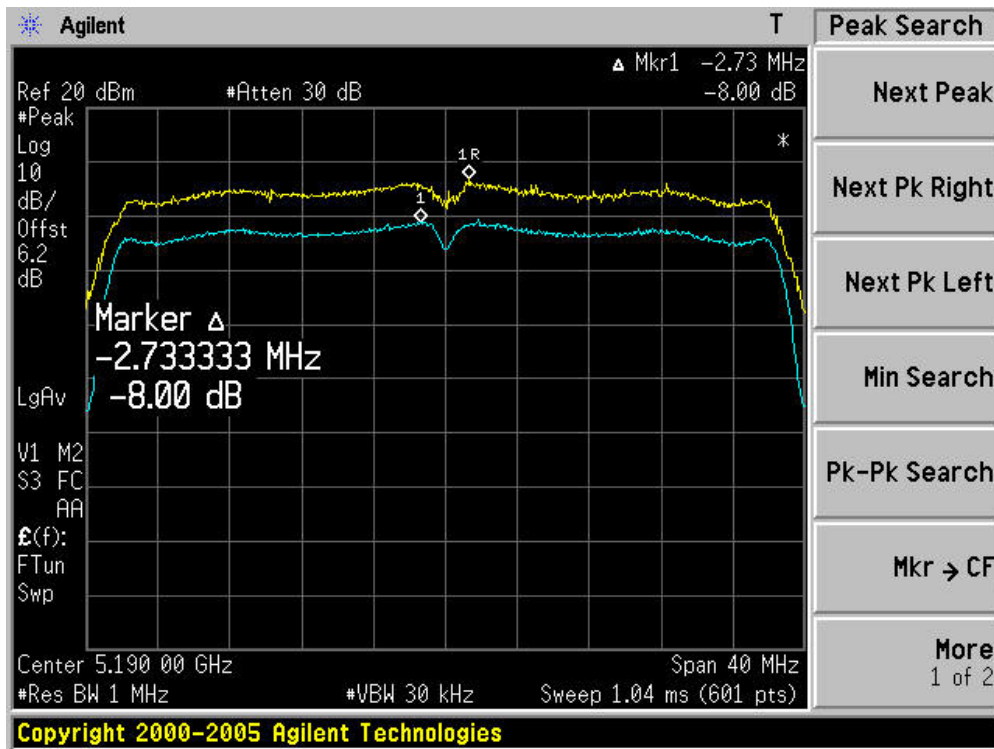
Channel 46 (5230MHz)



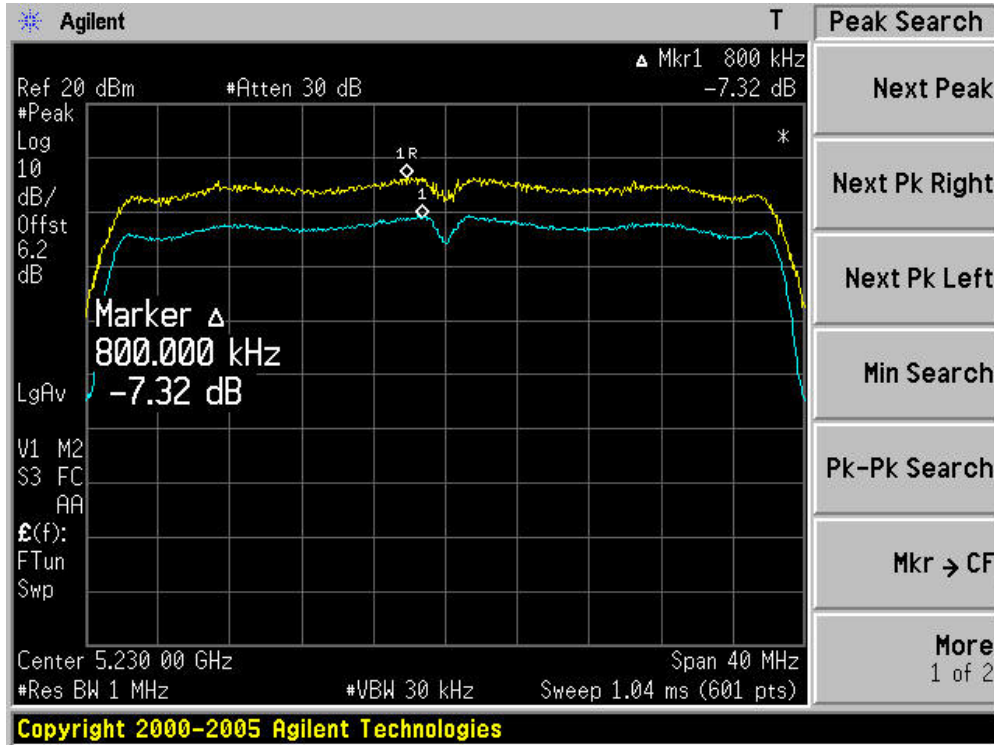
| | | |
|-----------|---|---|
| Product | : | IP-STB |
| Test Item | : | Peak Excursion |
| Test Site | : | TR-8 |
| Test Mode | : | Mode 3: Transmit by 802.11n (40MHz) (ant 1) |

| Channel No. | Frequency (MHz) | Peak Excursion (dB) | Limit (dB) | Result |
|-------------|-----------------|---------------------|------------|--------|
| 38 | 5190 | 8.00 | 13 | Pass |
| 46 | 5230 | 7.32 | 13 | Pass |

Channel 38 (5190MHz)



Channel 46 (5230MHz)



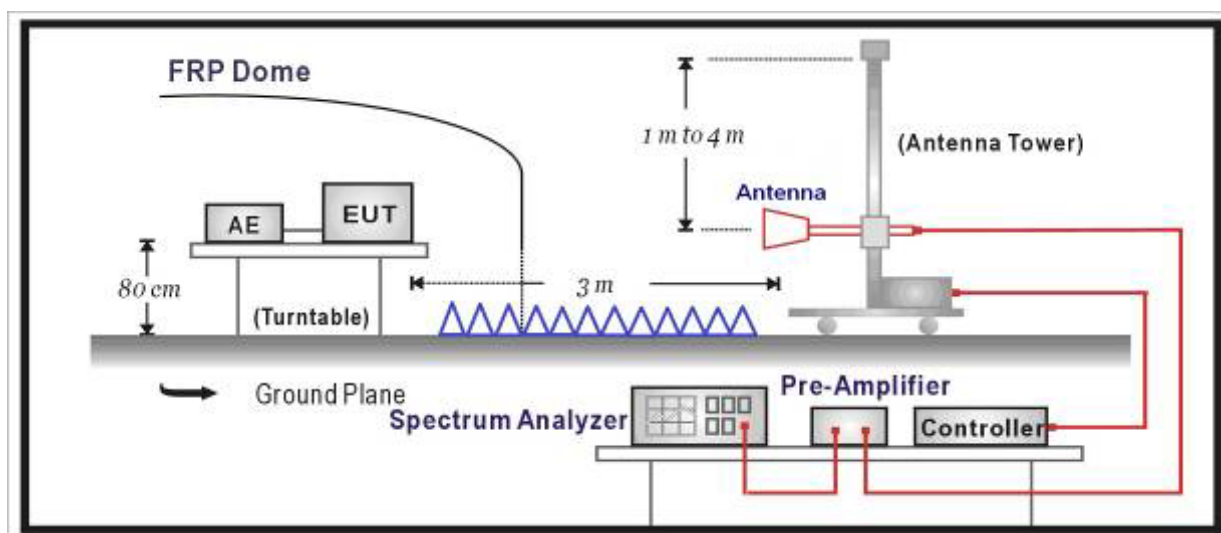
10. Radiated Emission Band Edge

10.1. Test Equipment

☒ Radiated Emission Band Edge / AC-5

| Instrument | Manufacturer | Type No. | Serial No. | Cali. Due Date |
|----------------------------|--------------|--------------|-------------|----------------|
| Spectrum Analyzer | Agilent | N9020A | MY49100159 | 2014.03.30 |
| Preamplifier | Miteq | NSP1800-25 | 1364185 | 2014.05.04 |
| Preamplifier | QuieTek | AP-040G | CHM-0906001 | 2014.05.04 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27612 | 2014.10.15 |
| DRG Horn | ETS-Lindgren | 3117 | 00123988 | 2015.01.21 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C1 | 2014.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C2 | 2014.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | AC5-C3 | 2014.03.01 |
| EMI Receiver | Agilent | N9038A | MY51210196 | 2014.06.09 |
| Temperature/Humidity Meter | Zhichen | ZC1-2 | AC5-TH | 2015.01.08 |

10.2. Test Setup



10.3. Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2690 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |

For 15.407(b) requirement:

- For transmitters operating in the 5.15-5.25 GHz band: all emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP of -27 dBm/MHz.

| Operating Frequency Band (MHz) | EIRP Limit (dBm/MHz) | Equivalent Field Strength at 3m (dBuV/m) |
|--------------------------------|----------------------|--|
| 5150 - 5250 | -27 | 68.3 |
| 5250 - 5350 | -27 | 68.3 |
| 5470 - 5725 | -27 | 68.3 |
| 5725 - 5825 | -27 [Note(1)] | 68.3 |
| | -17 [Note(2)] | 78.3 |

Note(1): Outside the frequency range 5715 - 5835MHz.

Note(2): Within the frequency range from the band edge to 10MHz below or above the band edge, 5715 – 5725MHz and 5825 - 5835MHz.

10.4. Test Procedure

The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

Note: When doing emission measurement above 1GHz, the horn Chainenna will be bended down a little (as horn Chainenna has the narrow beamwidth) in order to keeping the Chainenna in the "cone of radiation" of EUT. The 3dB beamwidth is 10~60 degrees for H-plane and 10~90 degrees for E-plane.

10.5. Uncertainty

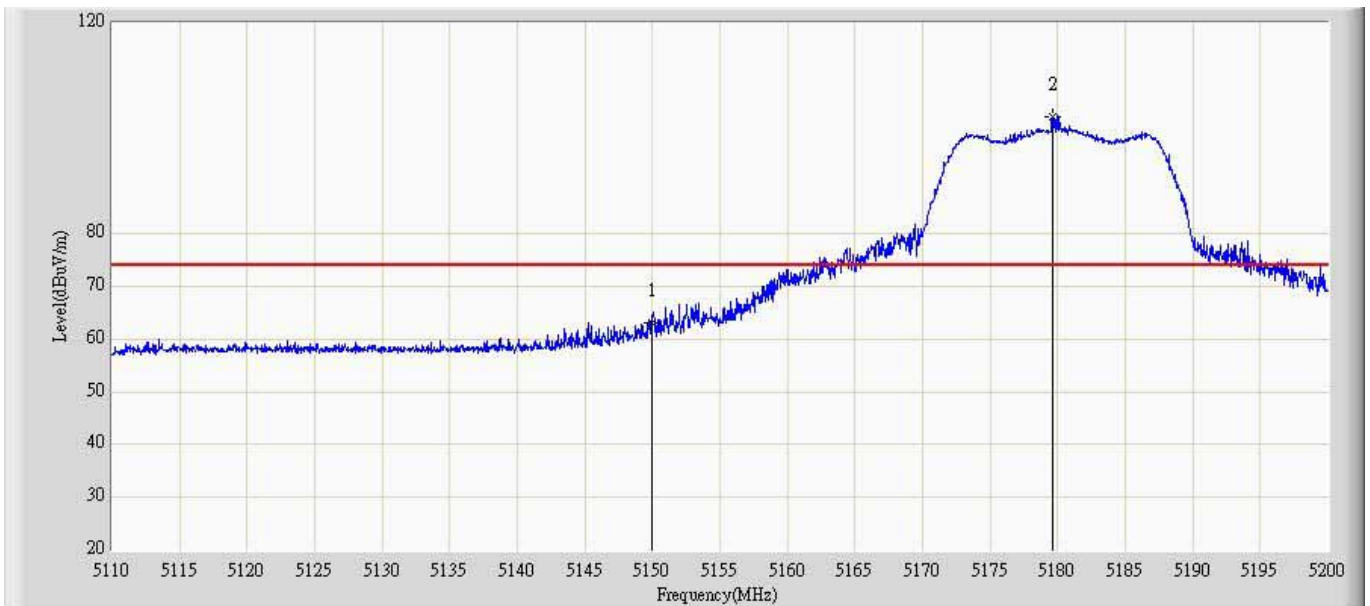
The measurement uncertainty above 1GHz is defined as ± 3.9 dB

10.6. Test Result

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

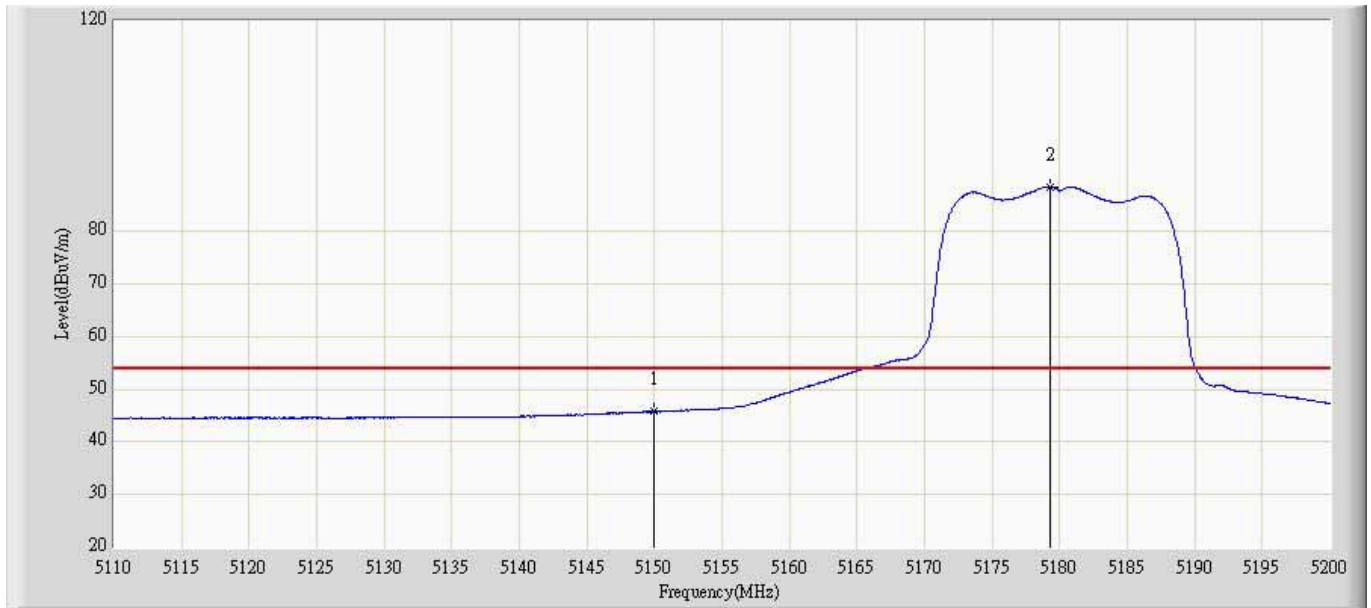
Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant0 | |



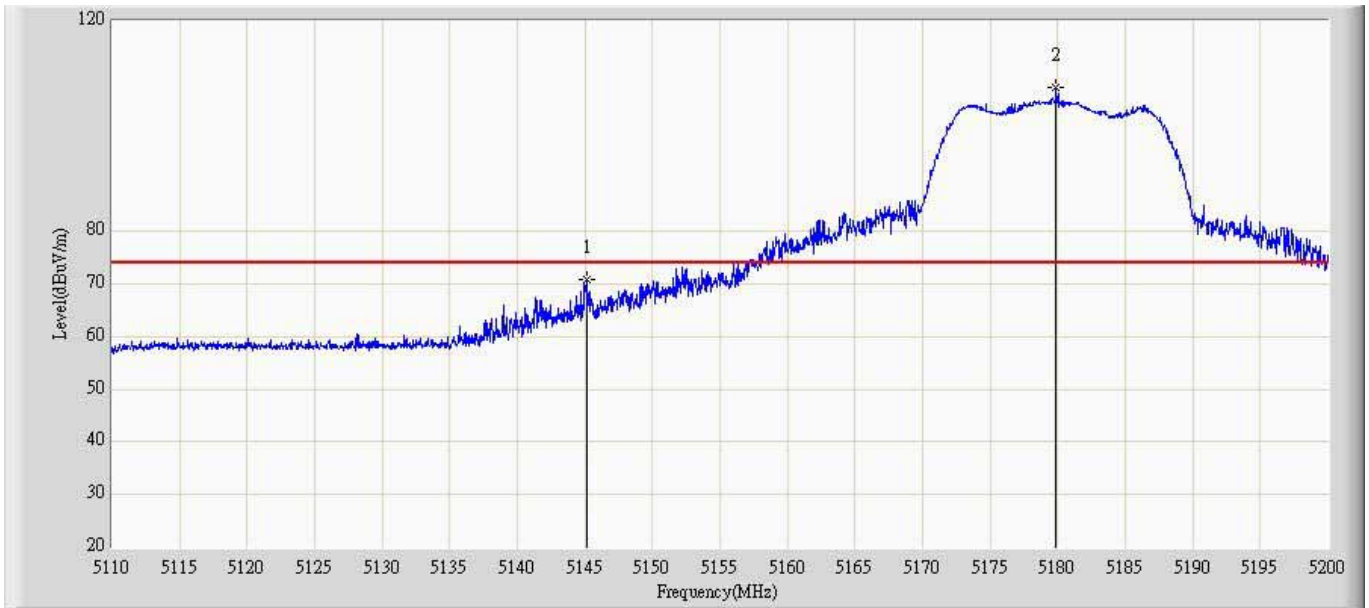
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 63.235 | 21.194 | -10.765 | 74.000 | 42.041 | PK |
| 2 | | * | 5179.660 | 102.173 | 60.056 | N/A | N/A | 42.117 | PK |

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:21 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant0 | |



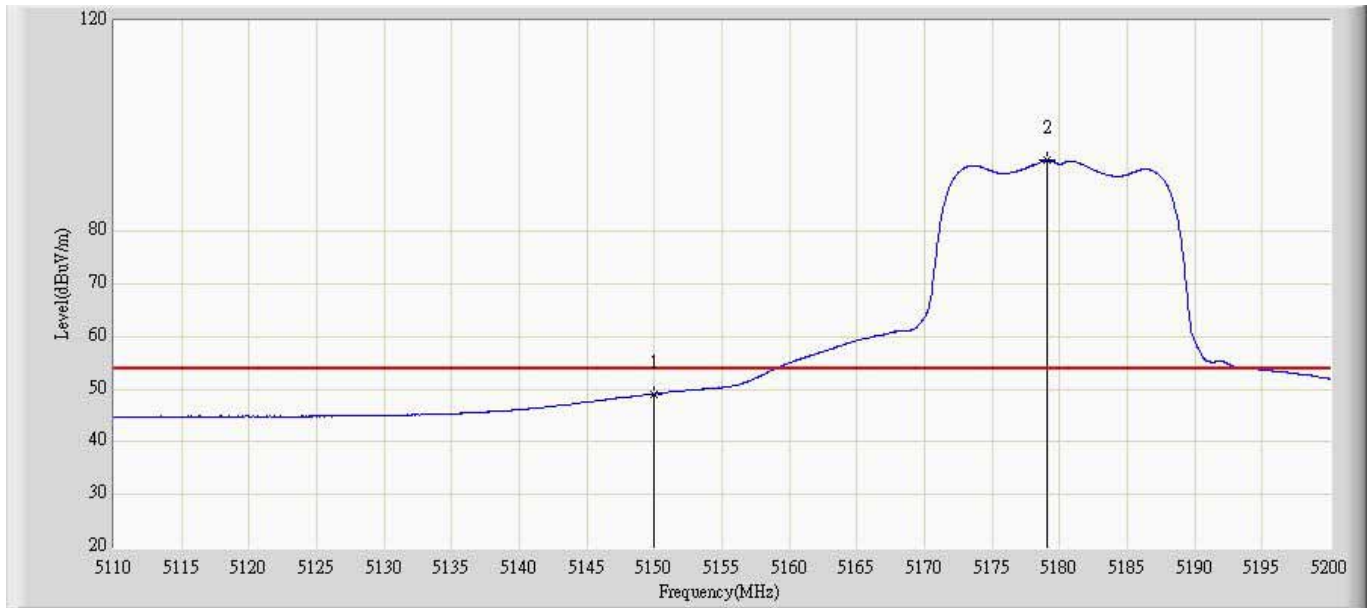
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 45.737 | 3.696 | -8.263 | 54.000 | 42.041 | AV |
| 2 | | * | 5179.255 | 88.480 | 46.364 | N/A | N/A | 42.117 | AV |

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant0 | |



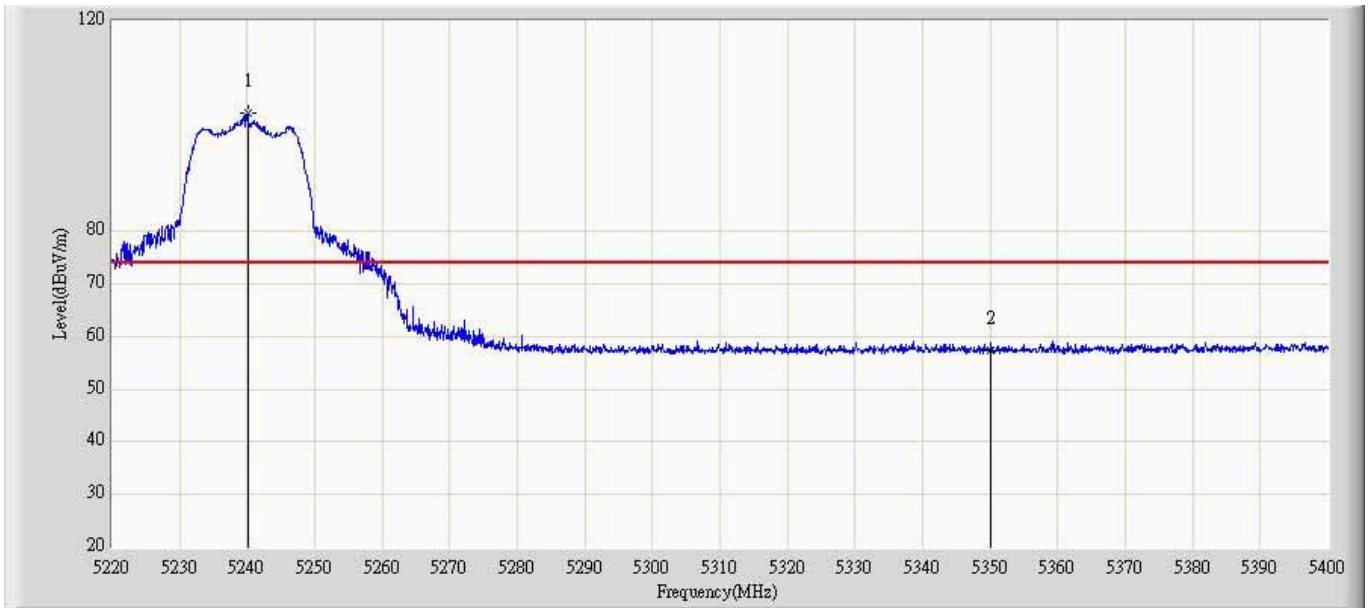
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5145.100 | 70.906 | 28.908 | -3.094 | 74.000 | 41.998 | PK |
| 2 | | * | 5179.885 | 107.432 | 65.402 | N/A | N/A | 42.030 | PK |

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:28 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant0 | |



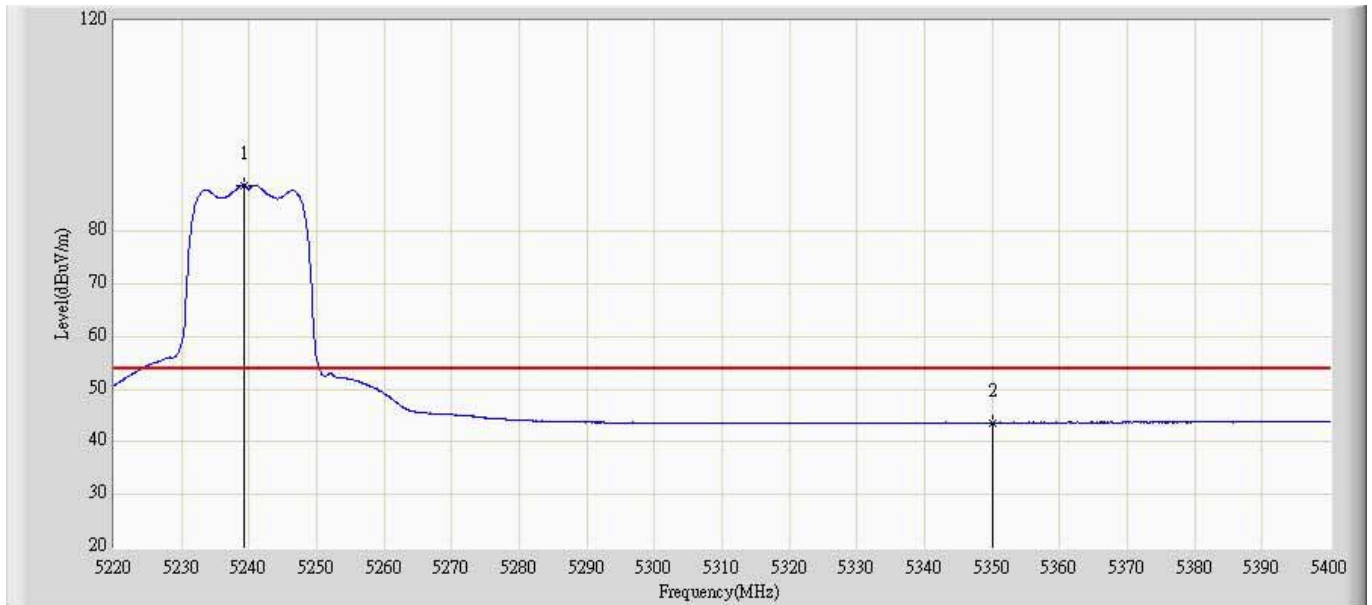
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 49.135 | 7.134 | -4.865 | 54.000 | 42.001 | AV |
| 2 | | * | 5179.075 | 93.487 | 51.457 | N/A | N/A | 42.030 | AV |

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:31 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant0 | |



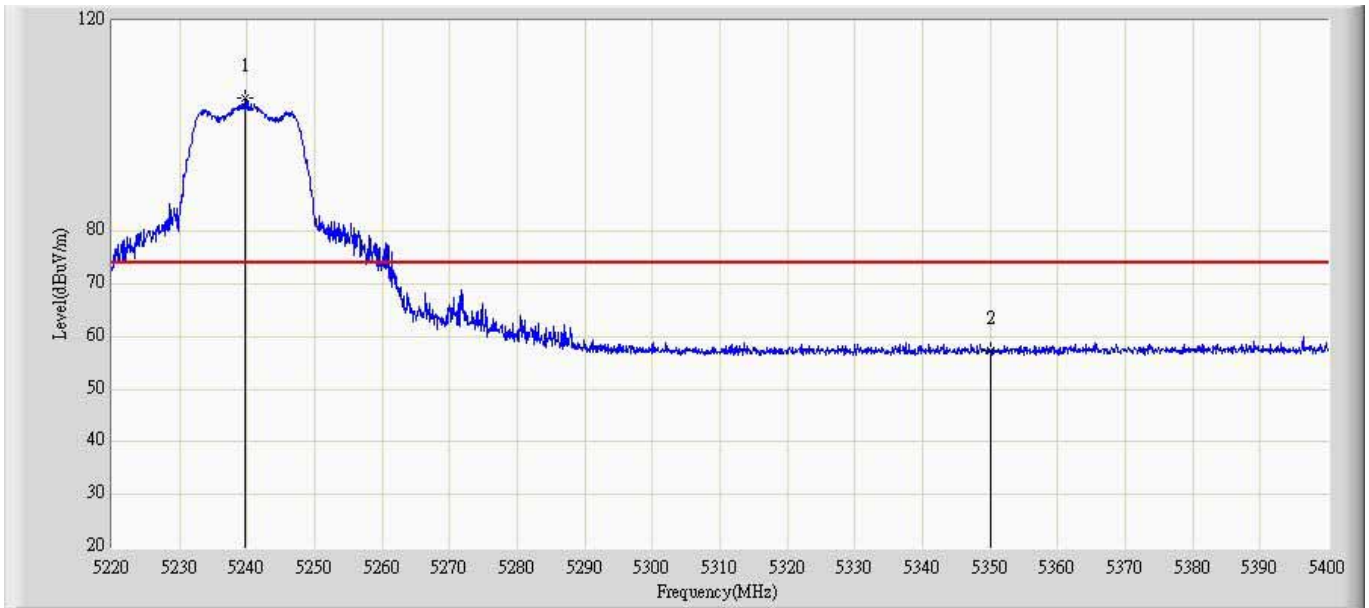
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5240.070 | 102.483 | 60.222 | N/A | N/A | 42.261 | PK |
| 2 | | | 5350.000 | 57.452 | 15.058 | -16.548 | 74.000 | 42.393 | PK |

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:36 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant0 | |



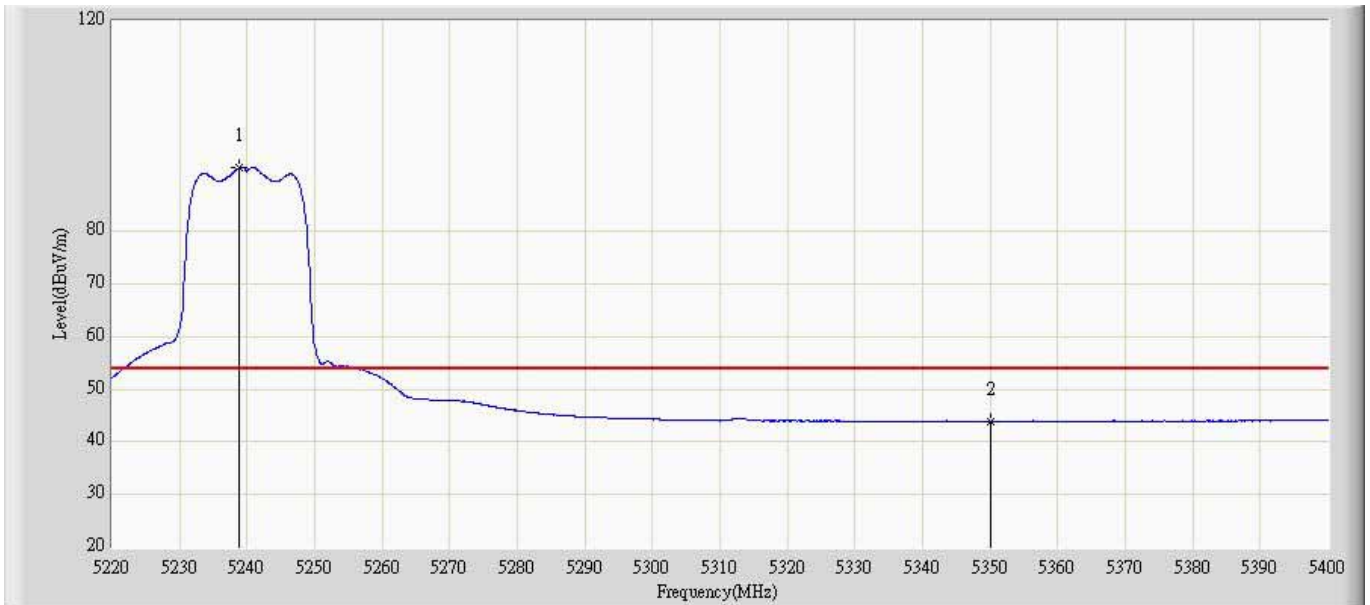
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.260 | 88.808 | 46.549 | N/A | N/A | 42.259 | AV |
| 2 | | | 5350.000 | 43.598 | 1.204 | -10.402 | 54.000 | 42.393 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant0 | |



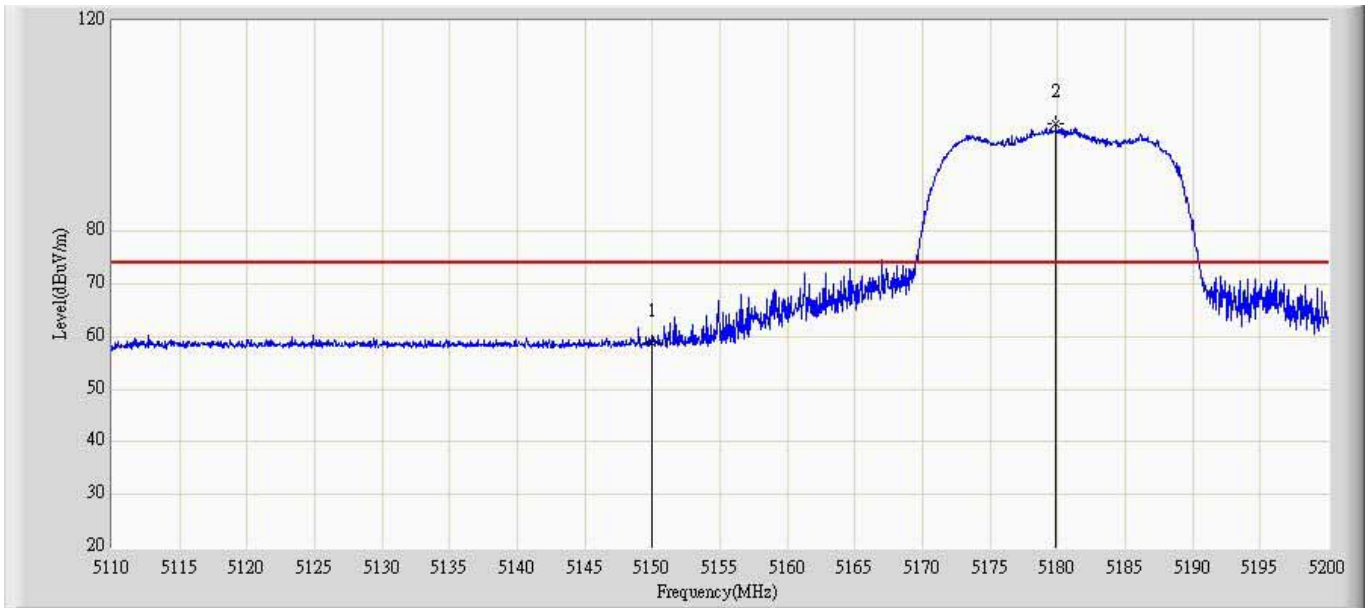
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.800 | 105.219 | 63.142 | N/A | N/A | 42.077 | PK |
| 2 | | | 5350.000 | 57.240 | 15.006 | -16.760 | 74.000 | 42.233 | PK |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:41 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant0 | |



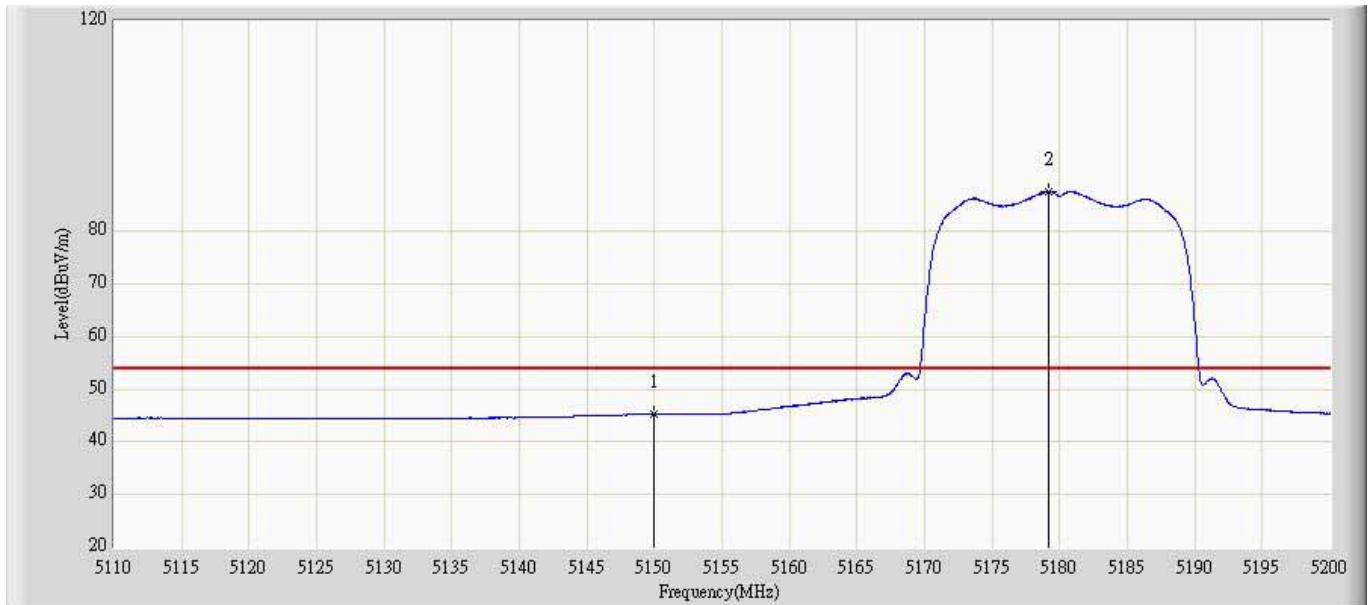
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5238.900 | 92.144 | 50.068 | N/A | N/A | 42.076 | AV |
| 2 | | | 5350.000 | 43.940 | 1.706 | -10.060 | 54.000 | 42.233 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 14:45 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0 | |



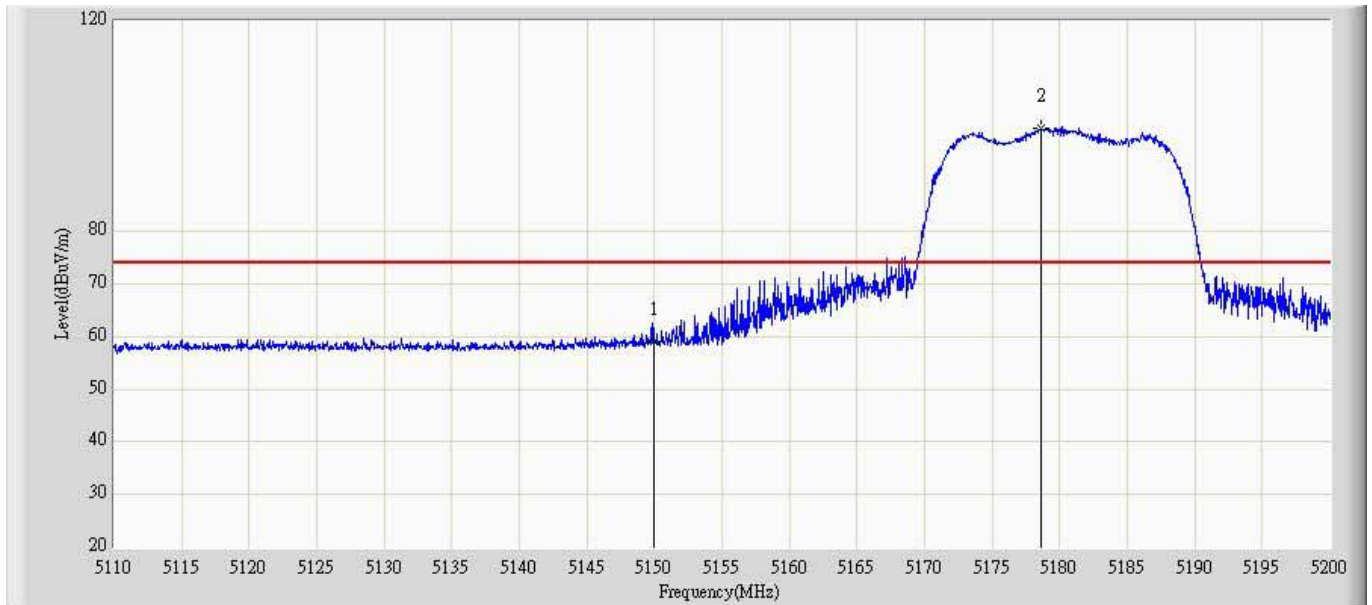
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 58.721 | 16.680 | -15.279 | 74.000 | 42.041 | PK |
| 2 | | * | 5179.840 | 100.369 | 58.251 | N/A | N/A | 42.118 | PK |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:00 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0 | |



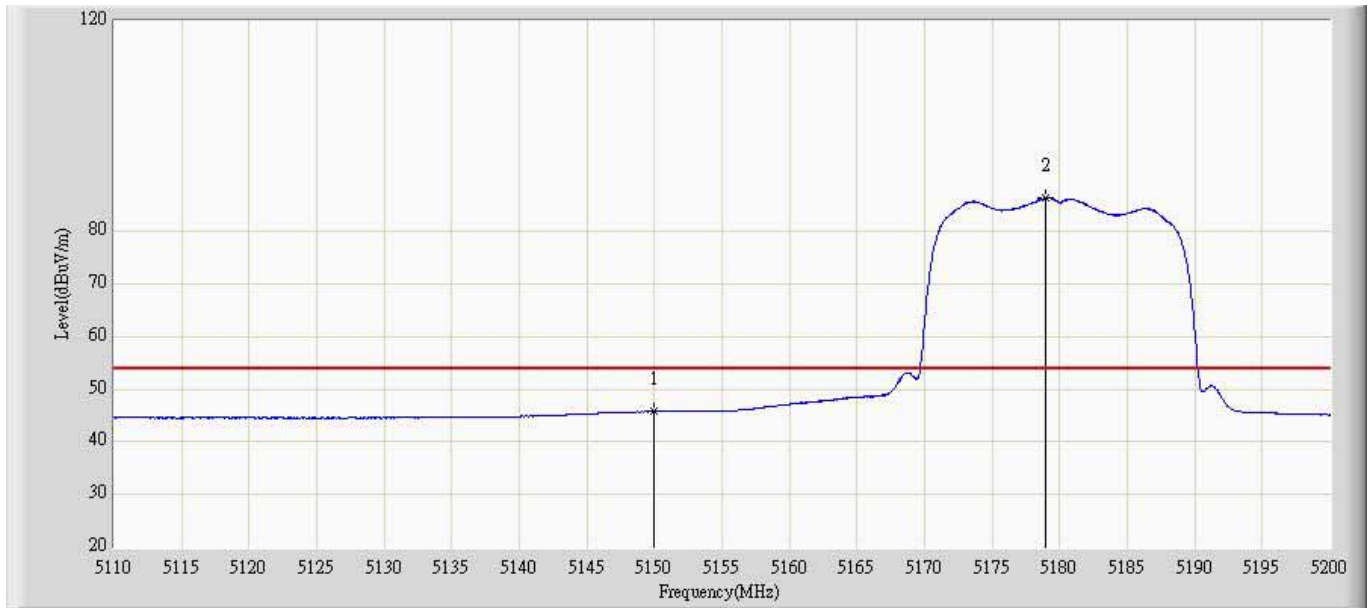
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 45.233 | 3.192 | -8.767 | 54.000 | 42.041 | AV |
| 2 | | * | 5179.165 | 87.557 | 45.441 | N/A | N/A | 42.116 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:02 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0 | |



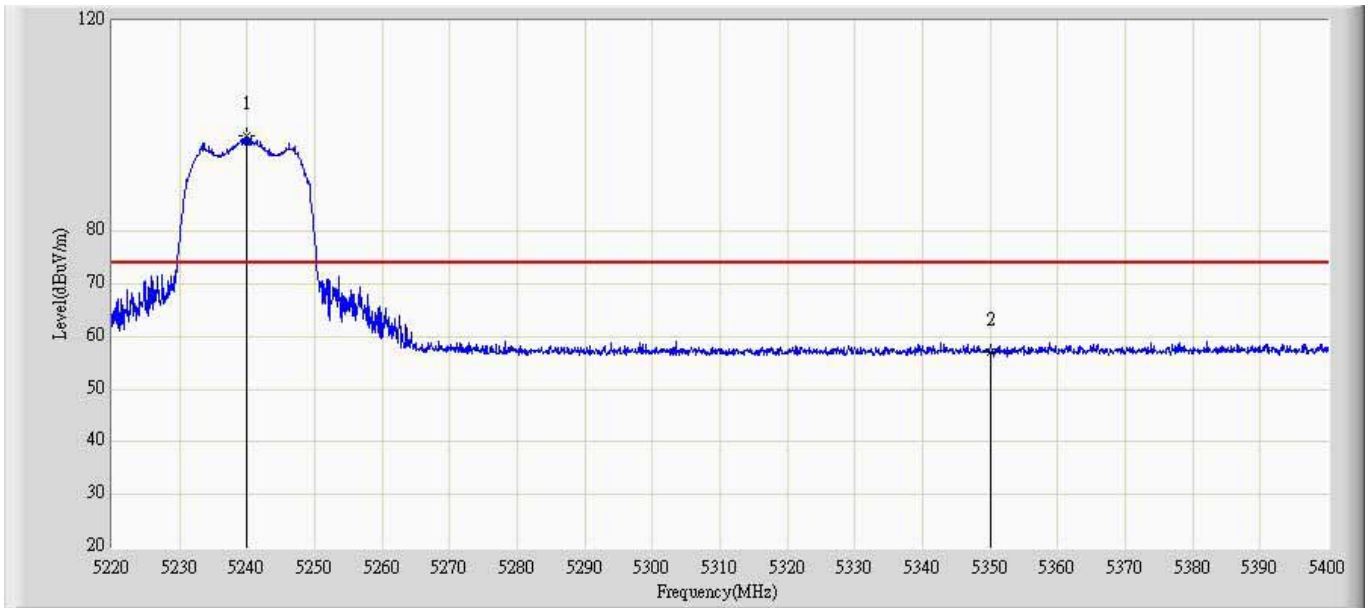
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 58.979 | 16.978 | -15.021 | 74.000 | 42.001 | PK |
| 2 | | * | 5178.580 | 99.460 | 57.431 | N/A | N/A | 42.029 | PK |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0 | |



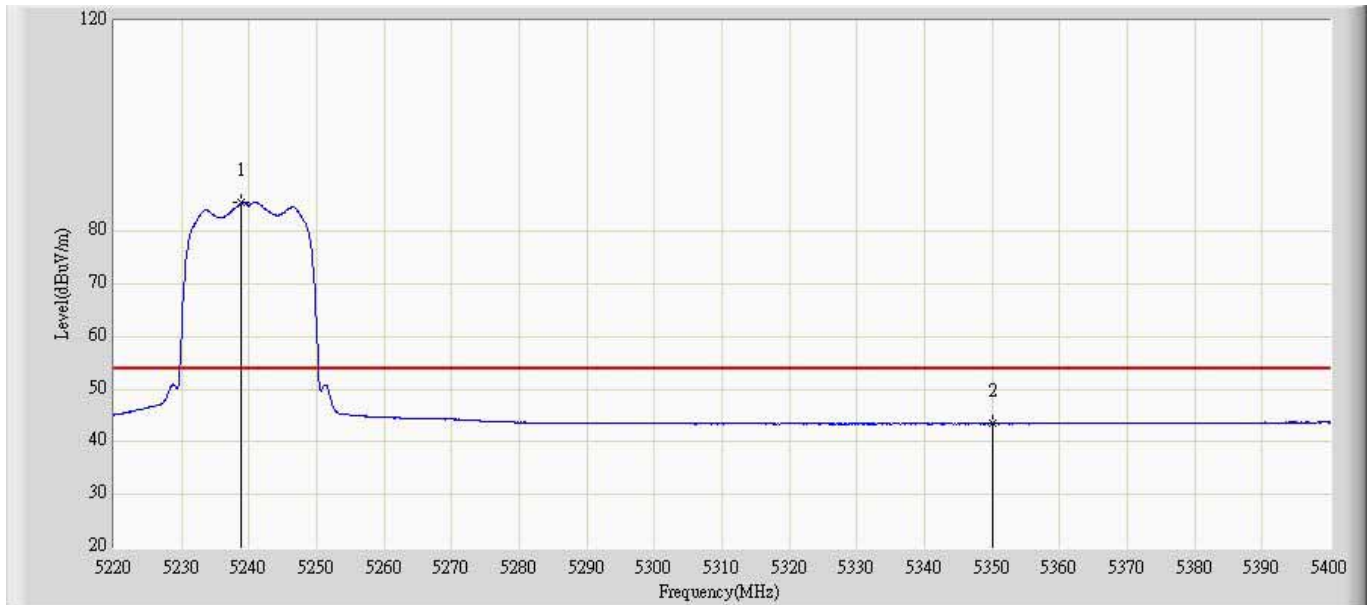
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 45.818 | 3.817 | -8.182 | 54.000 | 42.001 | AV |
| 2 | | * | 5178.940 | 86.363 | 44.334 | N/A | N/A | 42.029 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:09 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0 | |



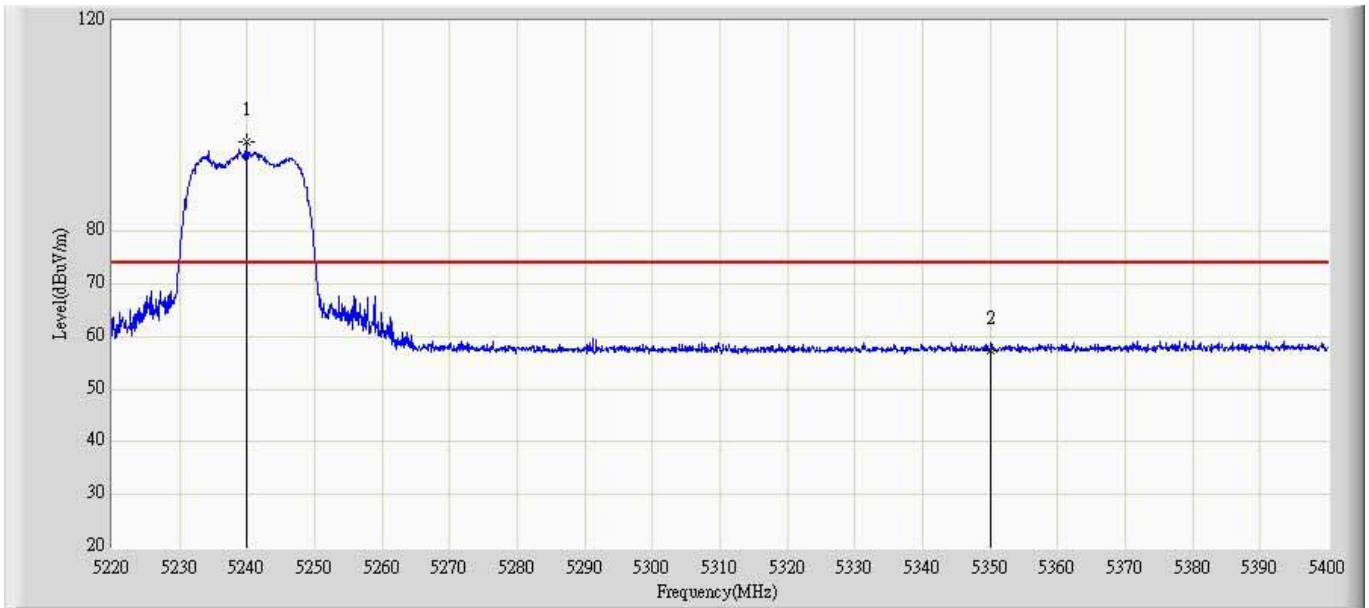
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.890 | 98.300 | 56.039 | N/A | N/A | 42.261 | PK |
| 2 | | | 5350.000 | 57.206 | 14.812 | -16.794 | 74.000 | 42.393 | PK |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:13 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0 | |



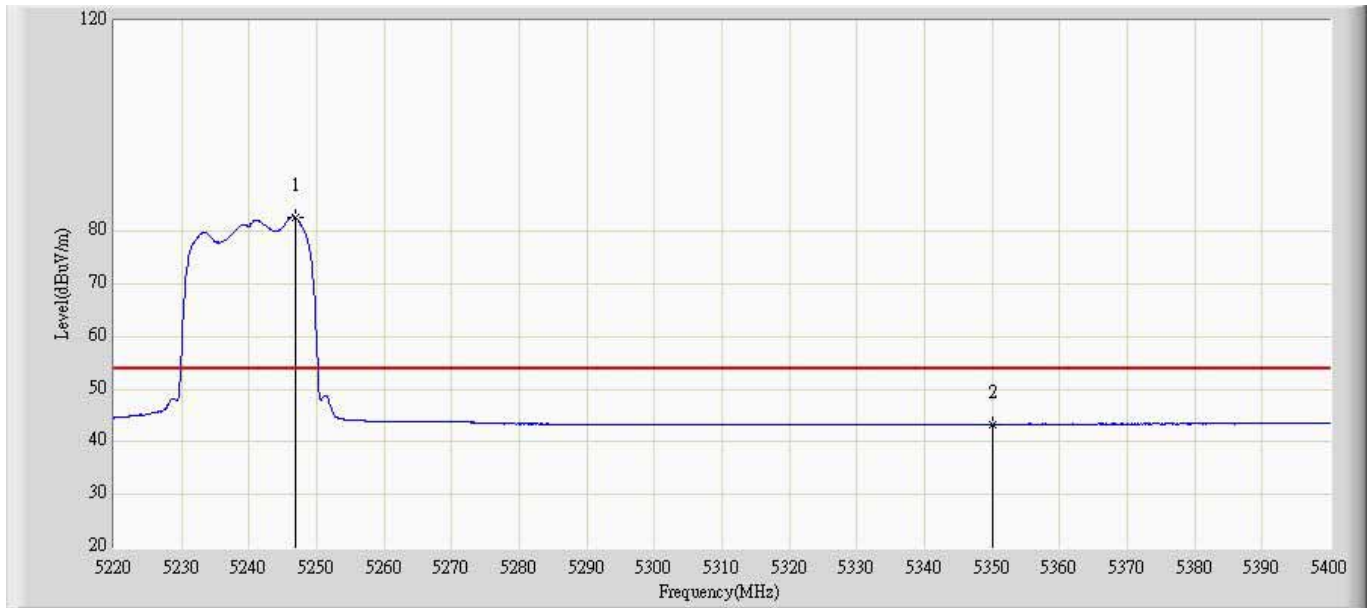
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5238.900 | 85.427 | 43.169 | N/A | N/A | 42.258 | AV |
| 2 | | | 5350.000 | 43.466 | 1.072 | -10.534 | 54.000 | 42.393 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:17 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0 | |



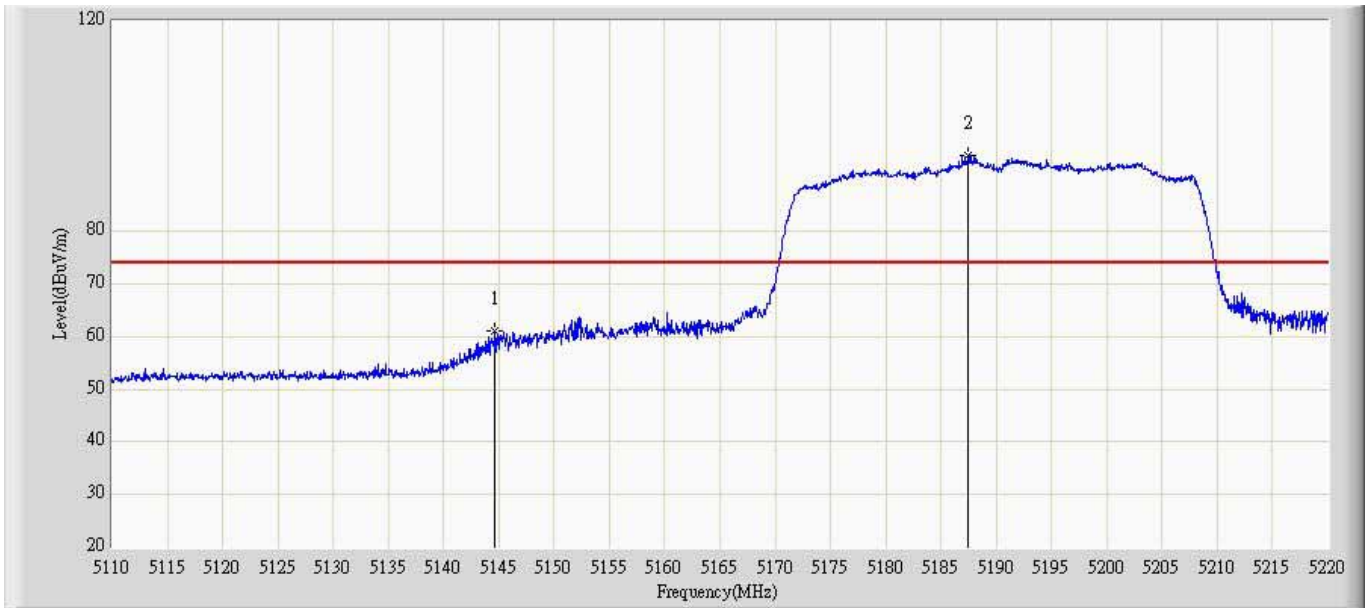
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.890 | 97.019 | 54.942 | N/A | N/A | 42.077 | PK |
| 2 | | | 5350.000 | 57.302 | 15.068 | -16.698 | 74.000 | 42.233 | PK |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:30 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5246.820 | 82.763 | 40.679 | N/A | N/A | 42.084 | AV |
| 2 | | | 5350.000 | 43.365 | 1.131 | -10.635 | 54.000 | 42.233 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0 | |



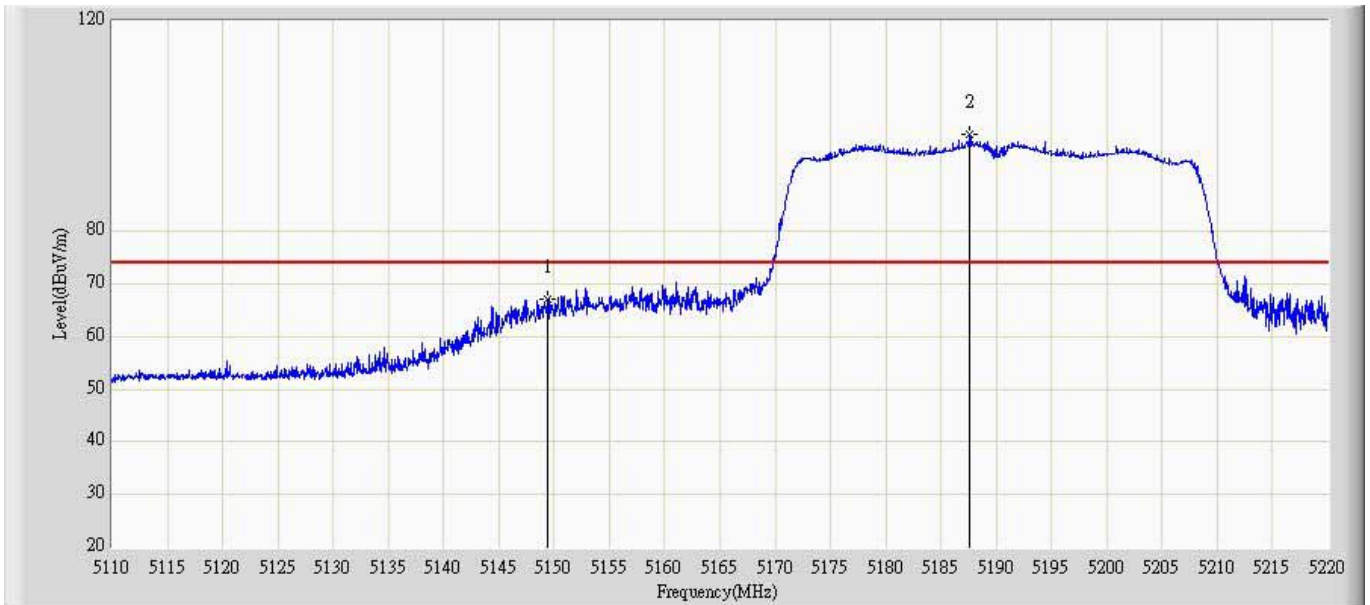
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5144.650 | 61.159 | 19.130 | -12.841 | 74.000 | 42.029 | PK |
| 2 | | * | 5187.495 | 94.419 | 52.284 | N/A | N/A | 42.135 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0 | |



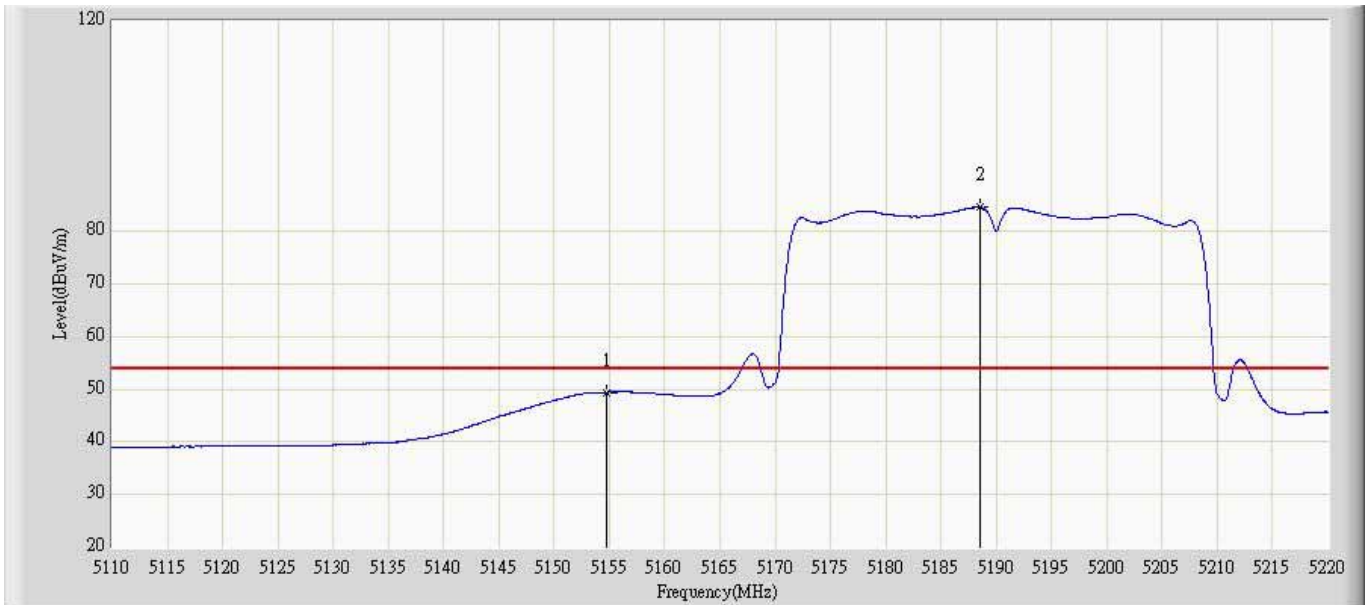
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 42.599 | 0.558 | -11.401 | 54.000 | 42.041 | AV |
| 2 | | * | 5191.565 | 80.851 | 38.707 | N/A | N/A | 42.144 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 15:55 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0 | |



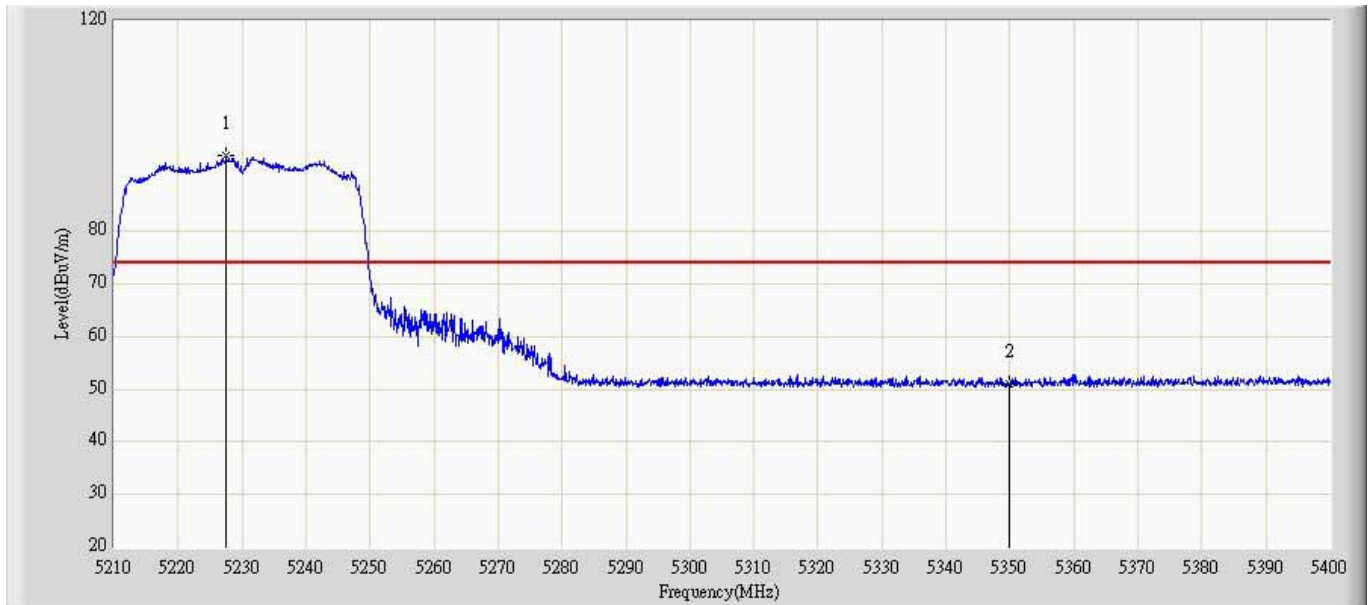
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5149.435 | 67.221 | 25.220 | -6.779 | 74.000 | 42.001 | PK |
| 2 | | * | 5187.605 | 98.411 | 56.376 | N/A | N/A | 42.035 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:03 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0 | |



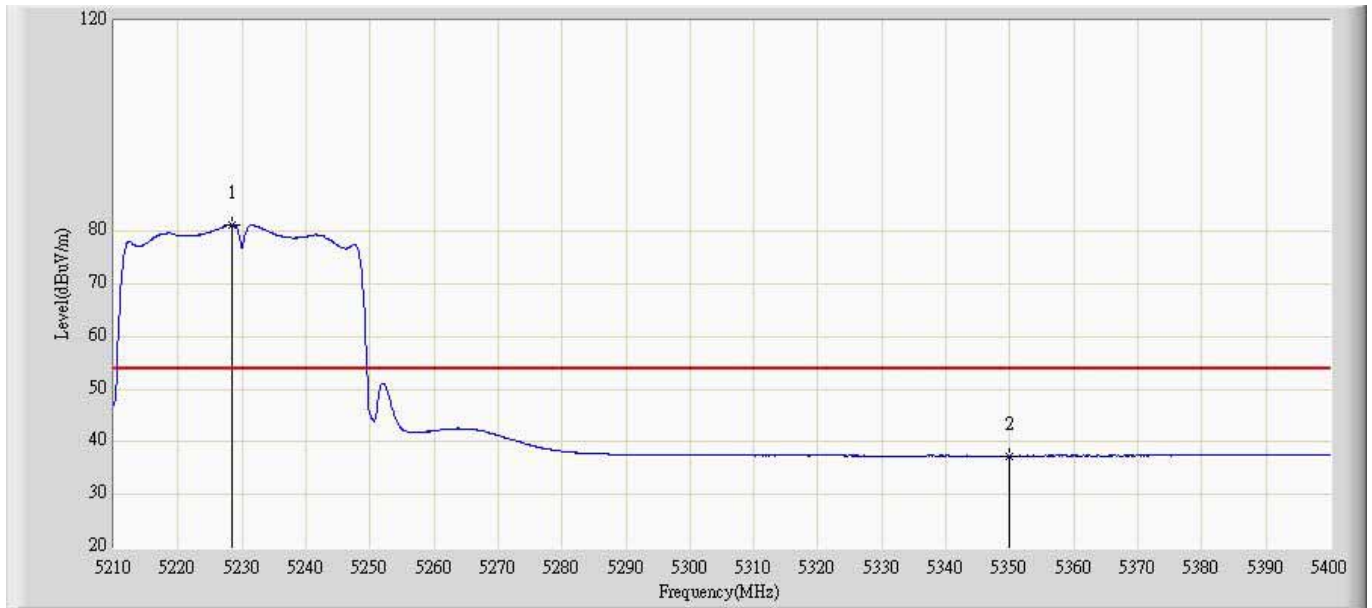
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5154.770 | 49.434 | 7.427 | -4.566 | 54.000 | 42.007 | AV |
| 2 | | * | 5188.485 | 84.553 | 42.517 | N/A | N/A | 42.036 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0 | |



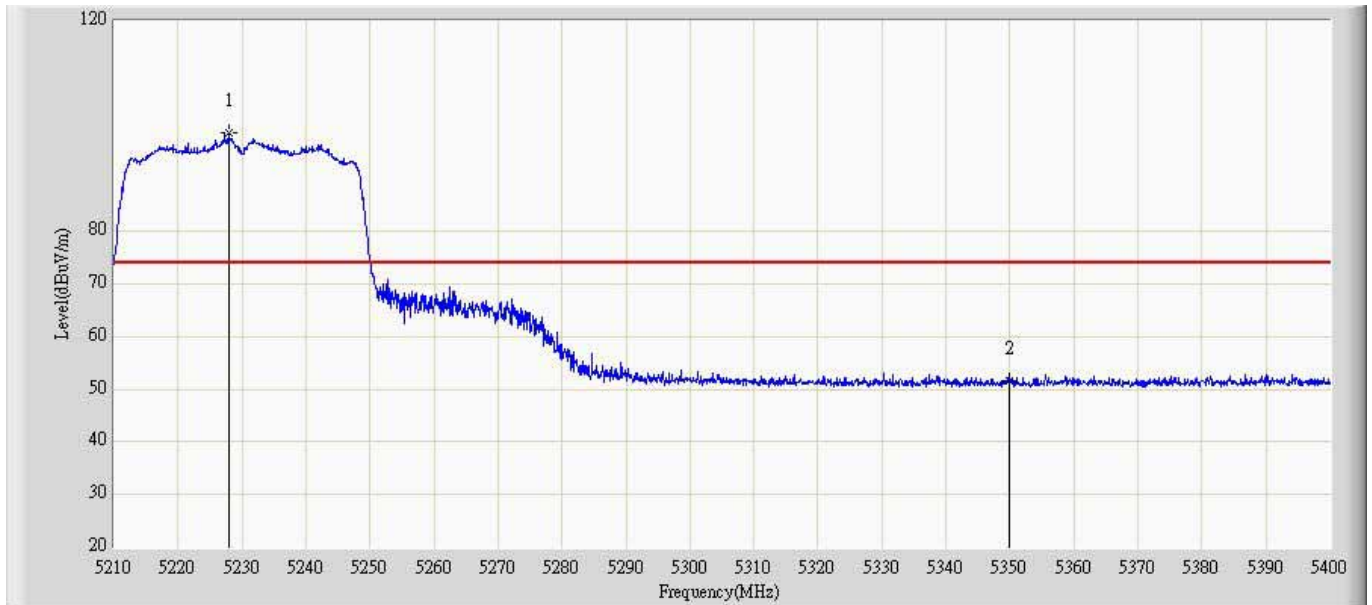
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5227.575 | 94.483 | 52.254 | N/A | N/A | 42.229 | PK |
| 2 | | | 5350.000 | 51.150 | 8.756 | -22.850 | 74.000 | 42.393 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:11 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0 | |



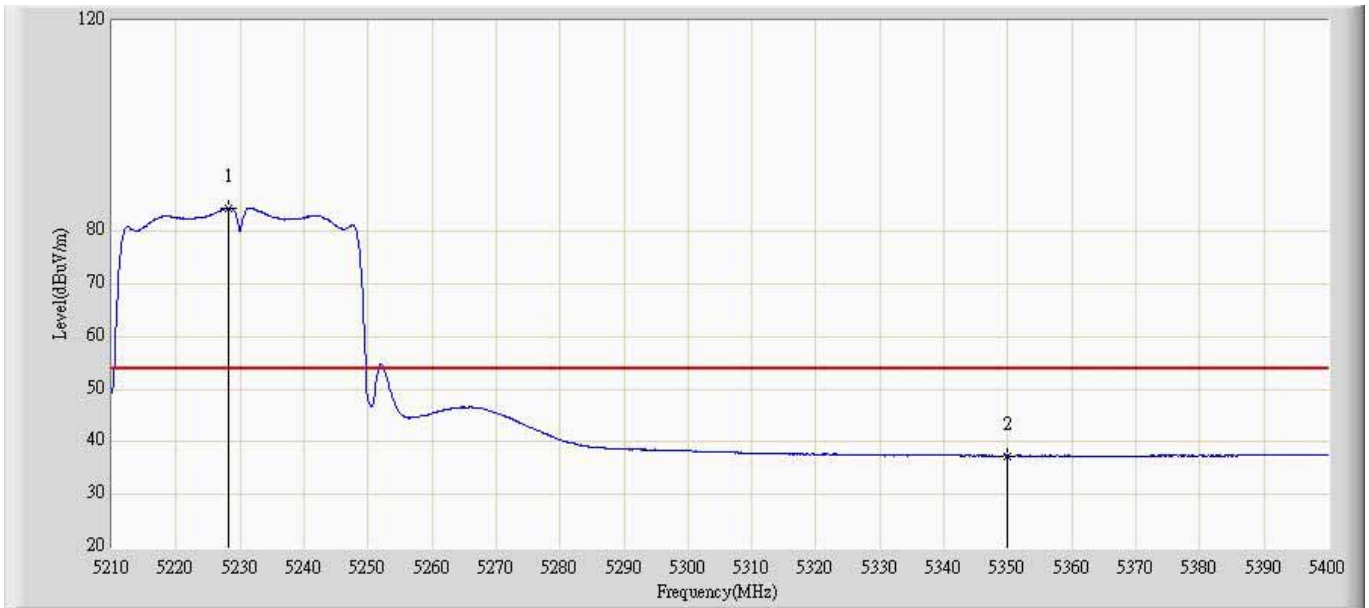
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5228.525 | 81.319 | 39.087 | N/A | N/A | 42.232 | AV |
| 2 | | | 5350.000 | 37.312 | -5.082 | -16.688 | 54.000 | 42.393 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:14 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0 | |



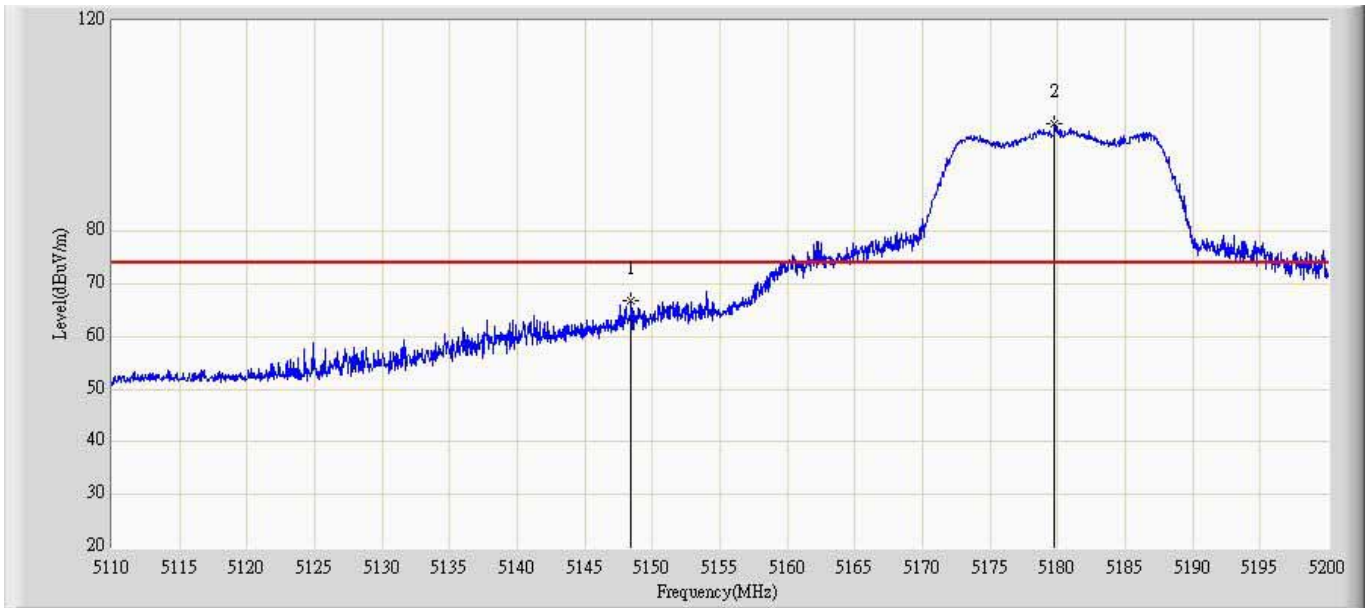
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5227.860 | 98.711 | 56.646 | N/A | N/A | 42.065 | PK |
| 2 | | | 5350.000 | 51.675 | 9.441 | -22.325 | 74.000 | 42.233 | PK |

| | |
|--|--------------------------|
| Site: AC5 | Time: 2014/01/26 - 16:17 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0 | |



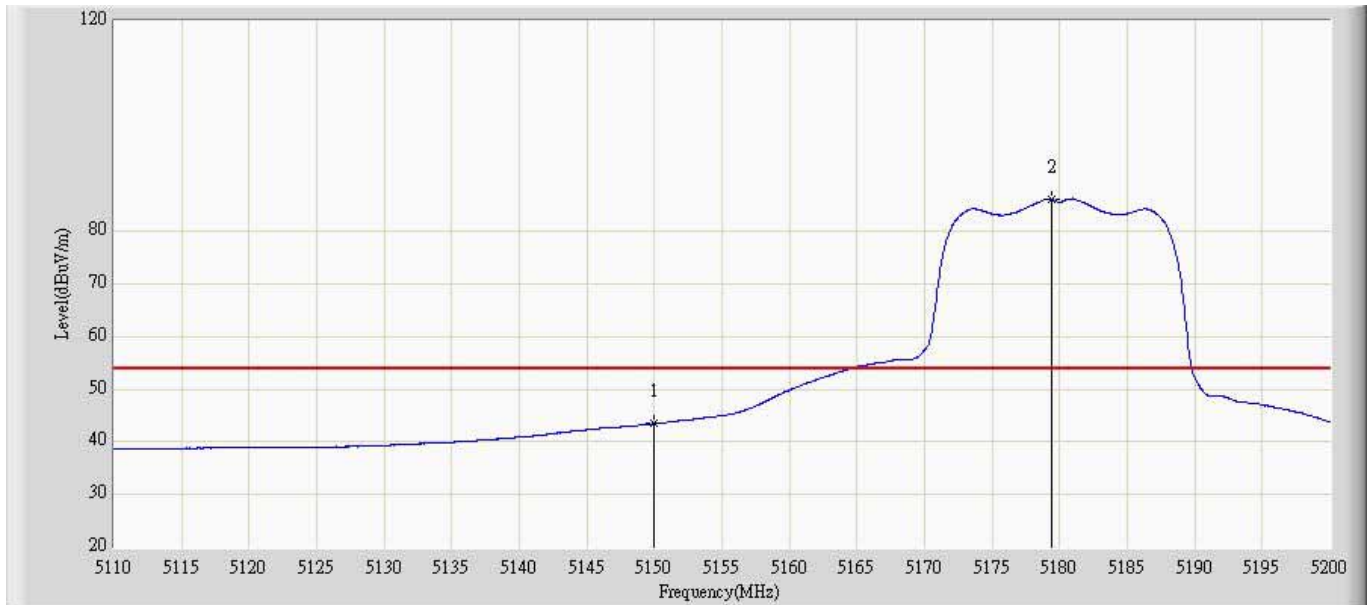
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5228.240 | 84.468 | 42.402 | N/A | N/A | 42.066 | AV |
| 2 | | | 5350.000 | 37.343 | -4.891 | -16.657 | 54.000 | 42.233 | AV |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:21 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant1 | |



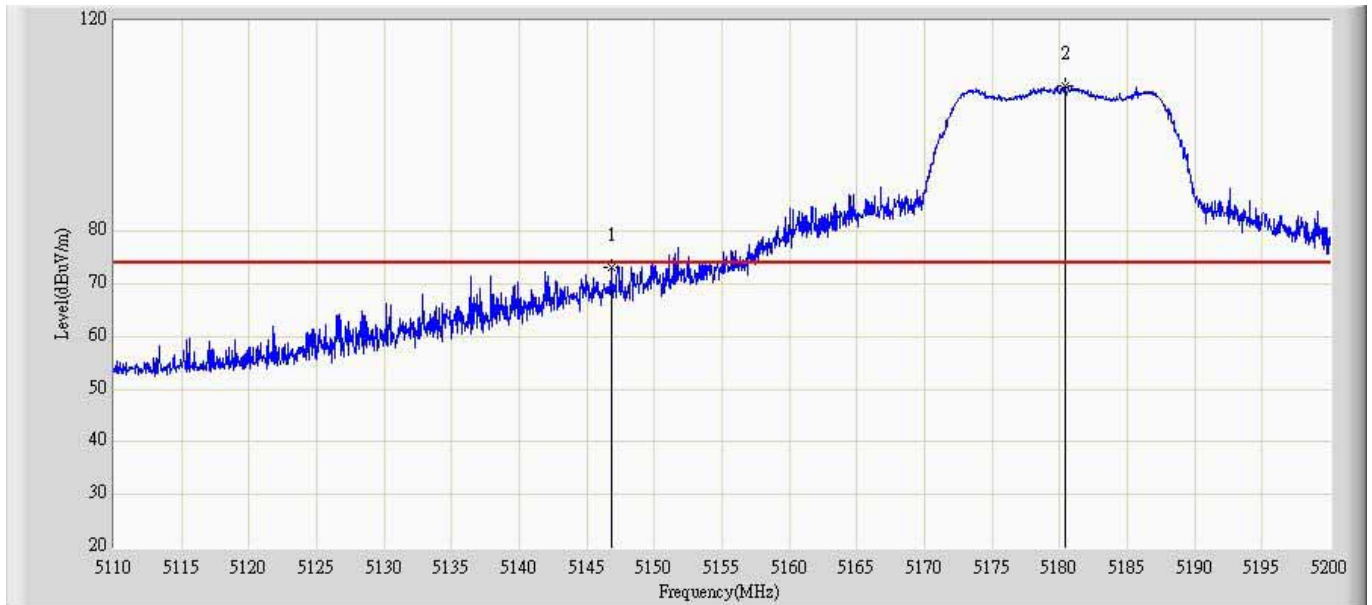
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5148.430 | 66.842 | 24.805 | -7.158 | 74.000 | 42.037 | PK |
| 2 | | * | 5179.750 | 100.338 | 58.220 | N/A | N/A | 42.117 | PK |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:25 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant1 | |



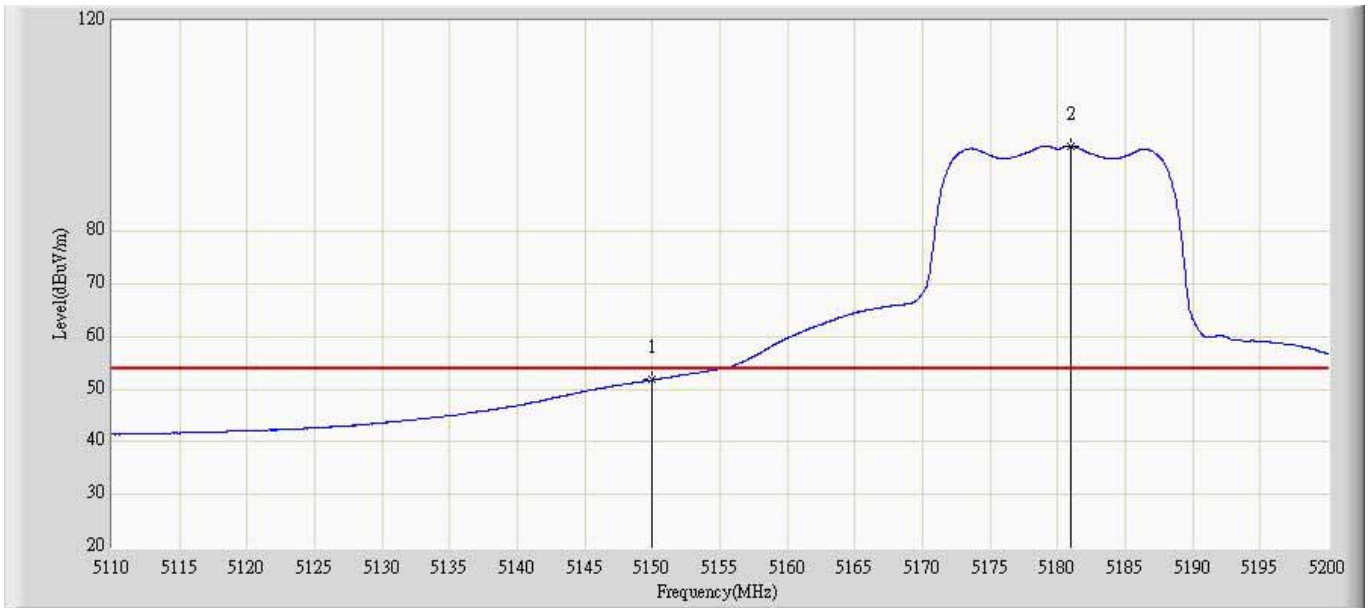
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 43.446 | 1.405 | -10.554 | 54.000 | 42.041 | AV |
| 2 | | * | 5179.390 | 86.097 | 43.980 | N/A | N/A | 42.117 | AV |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:27 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant1 | |



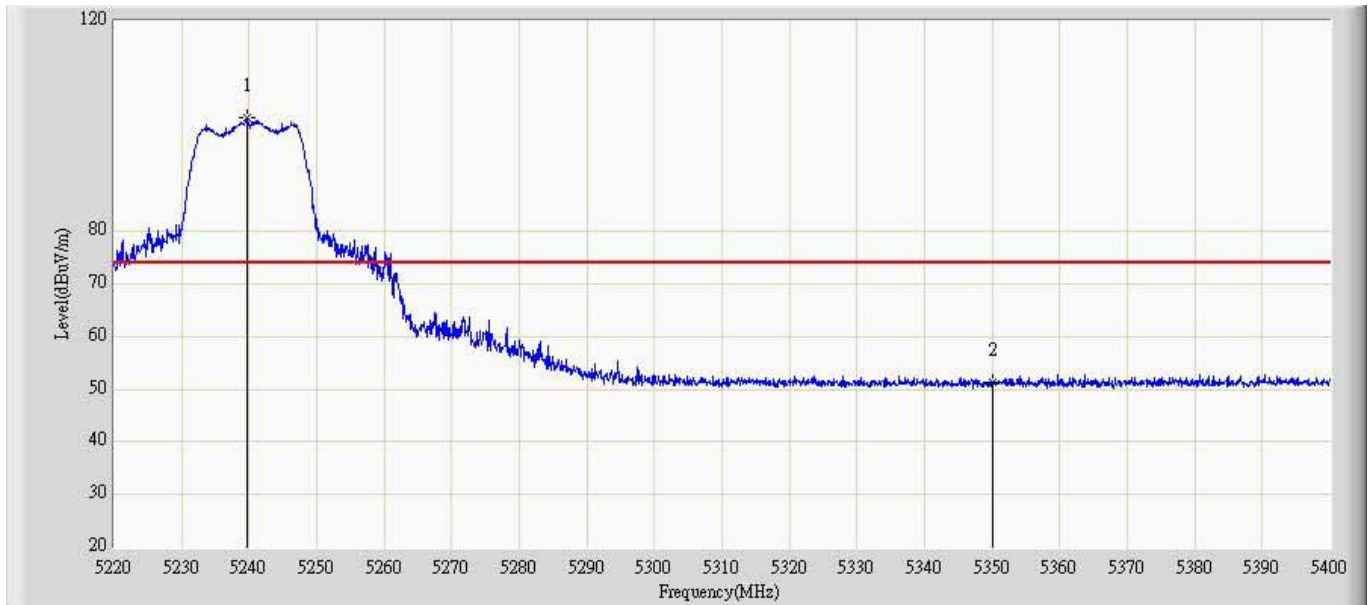
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5146.810 | 73.302 | 31.304 | -0.698 | 74.000 | 41.998 | PK |
| 2 | | * | 5180.380 | 107.547 | 65.516 | N/A | N/A | 42.031 | PK |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:31 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5180 by 802.11a ant1 | |



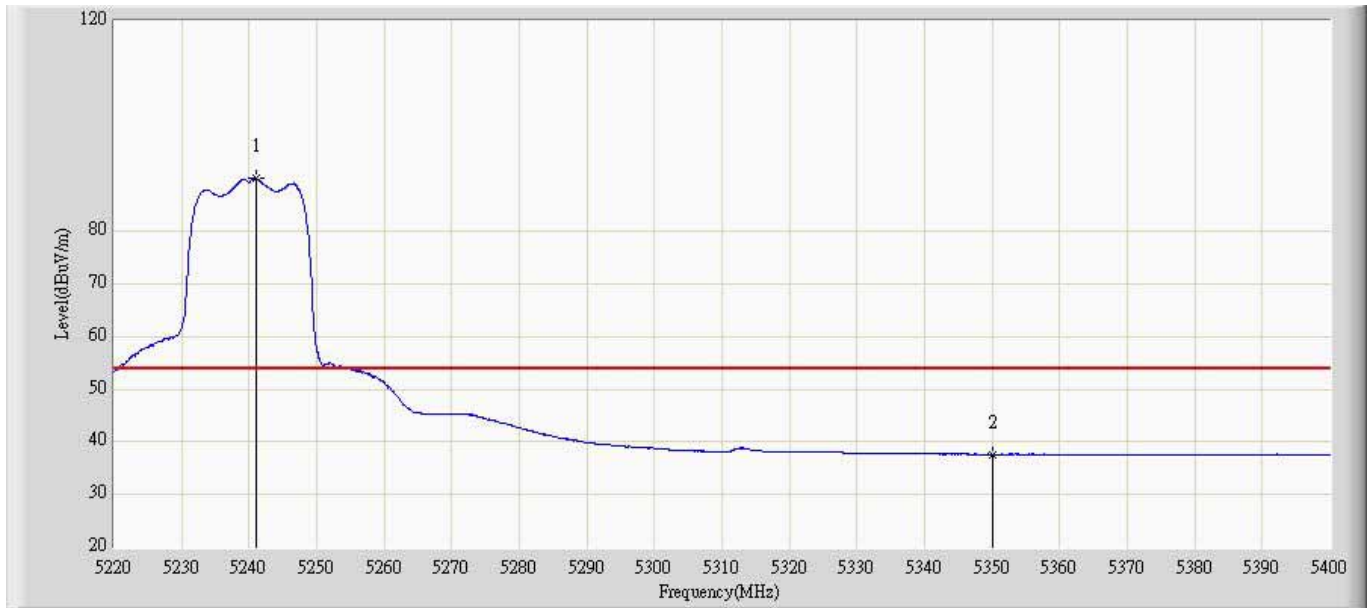
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 51.755 | 9.754 | -2.245 | 54.000 | 42.001 | AV |
| 2 | | * | 5180.920 | 96.248 | 54.217 | N/A | N/A | 42.031 | AV |

| | |
|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:33 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant1 | |



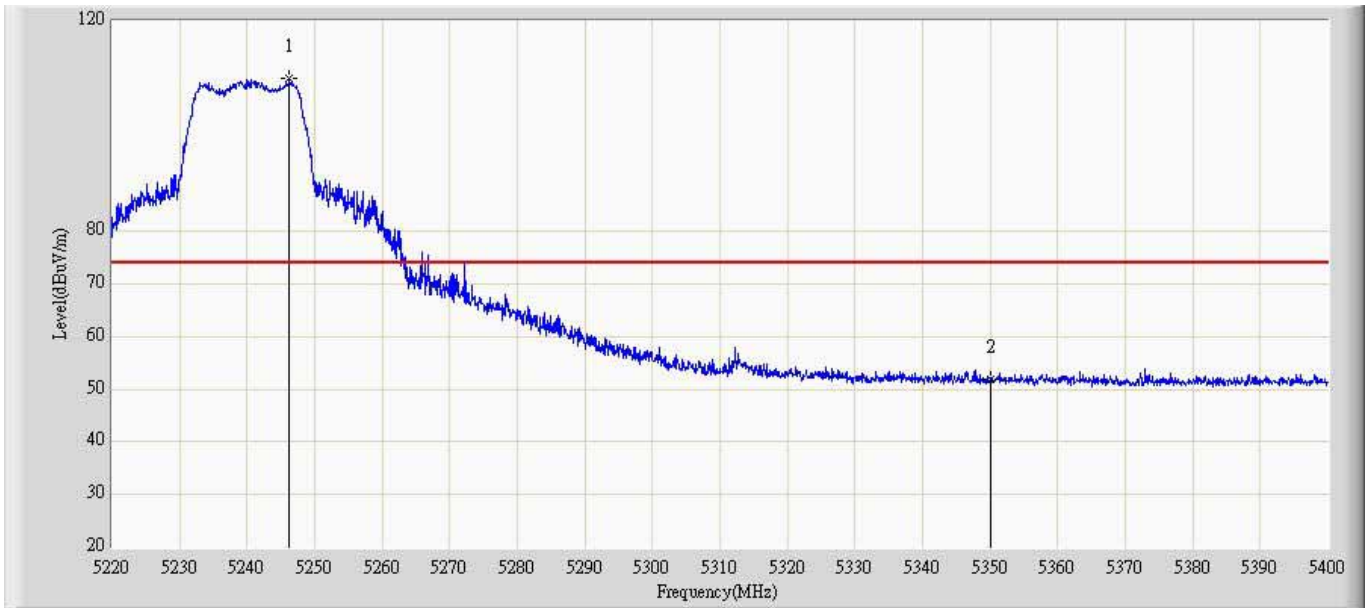
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.710 | 101.485 | 59.225 | N/A | N/A | 42.261 | PK |
| 2 | | | 5350.000 | 51.421 | 9.027 | -22.579 | 74.000 | 42.393 | PK |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:37 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant1 | |



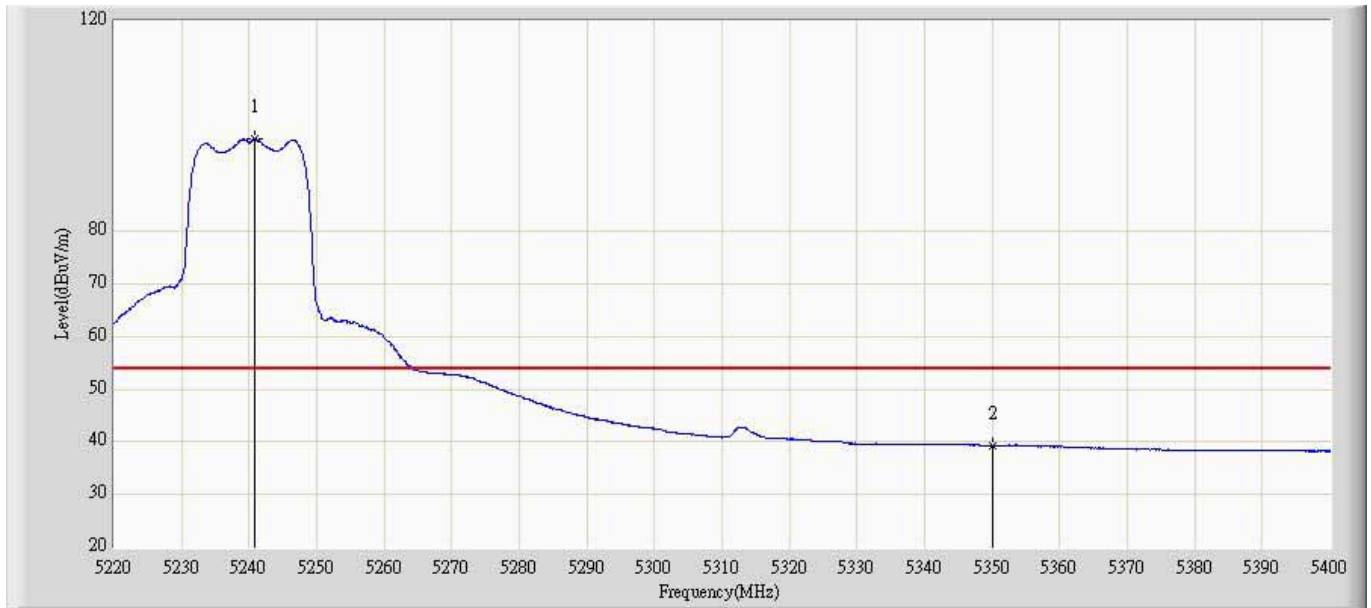
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5241.150 | 90.040 | 47.776 | N/A | N/A | 42.264 | AV |
| 2 | | | 5350.000 | 37.586 | -4.808 | -16.414 | 54.000 | 42.393 | AV |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant1 | |



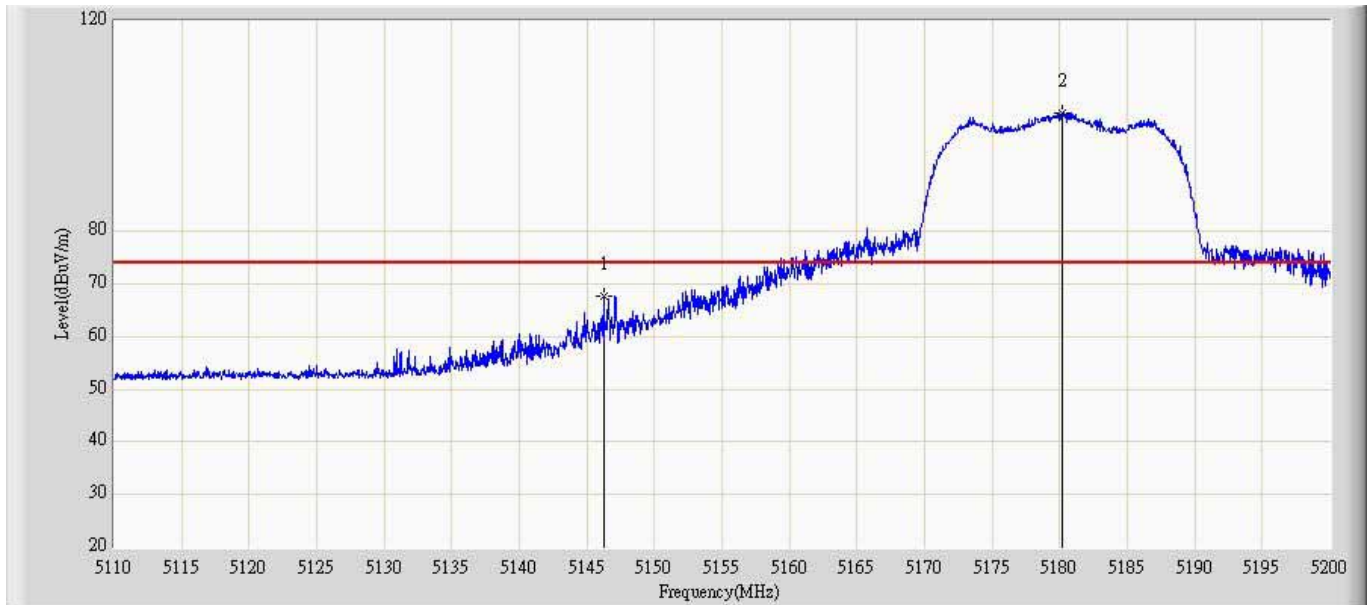
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5246.280 | 109.205 | 67.122 | N/A | N/A | 42.083 | PK |
| 2 | | | 5350.000 | 51.831 | 9.597 | -22.169 | 74.000 | 42.233 | PK |

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|---|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:42 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode1: Transmit at CH5240 by 802.11a ant1 | |



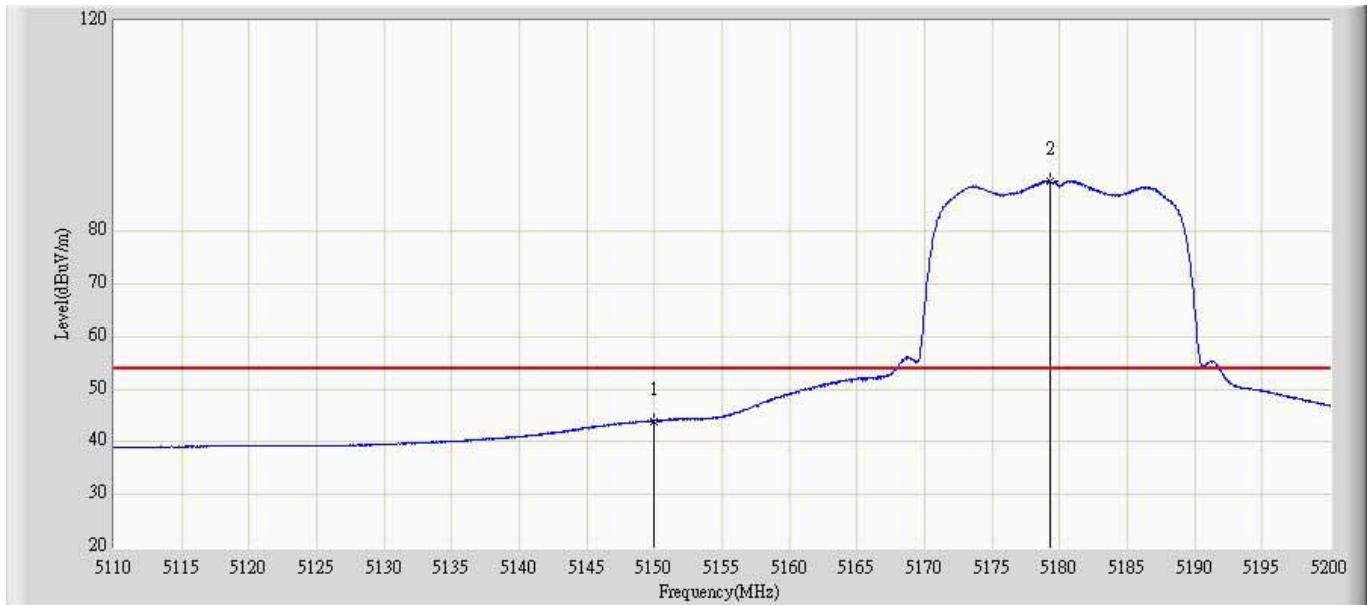
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5240.790 | 97.524 | 55.446 | N/A | N/A | 42.078 | AV |
| 2 | | | 5350.000 | 39.274 | -2.960 | -14.726 | 54.000 | 42.233 | AV |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:44 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant1 | |



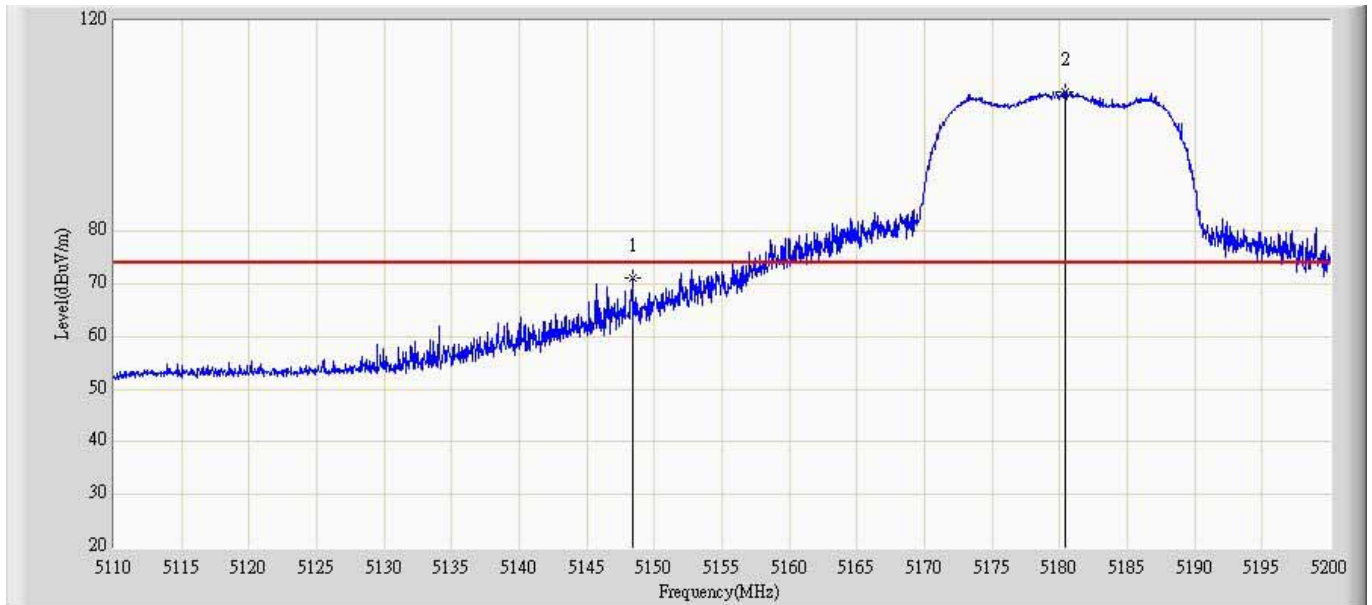
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5146.270 | 67.751 | 25.719 | -6.249 | 74.000 | 42.032 | PK |
| 2 | | * | 5180.155 | 102.526 | 60.407 | N/A | N/A | 42.118 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant1 | |



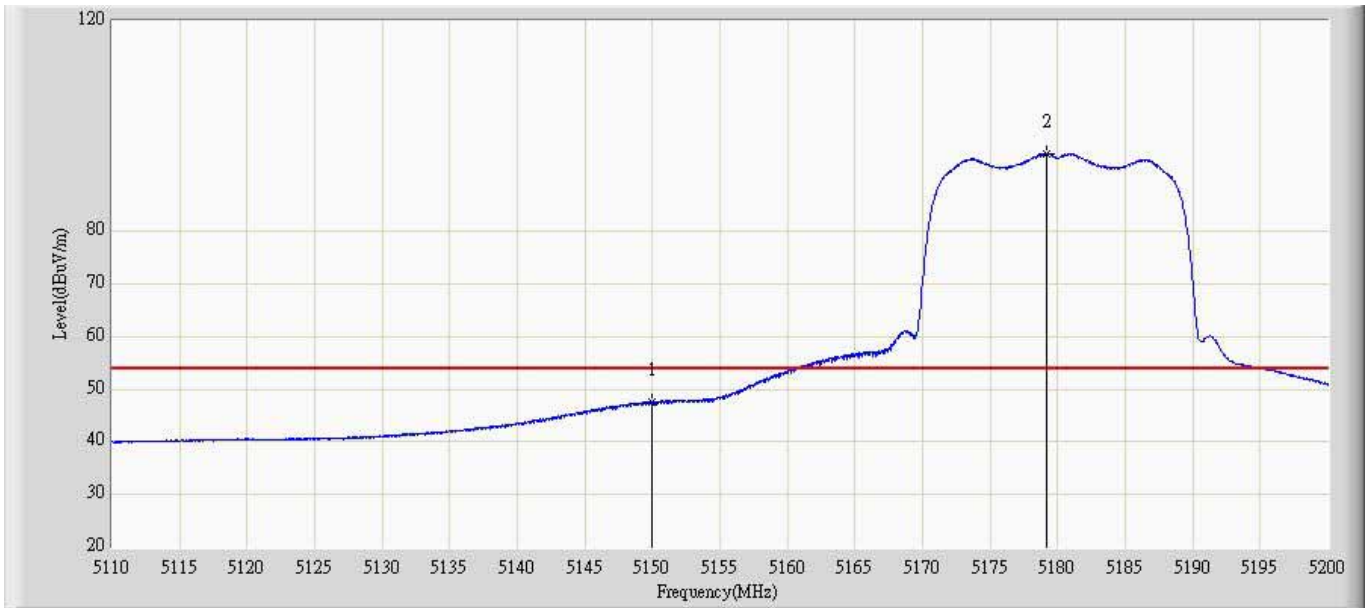
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 43.967 | 1.926 | -10.033 | 54.000 | 42.041 | AV |
| 2 | | * | 5179.255 | 89.494 | 47.378 | N/A | N/A | 42.117 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:53 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant1 | |



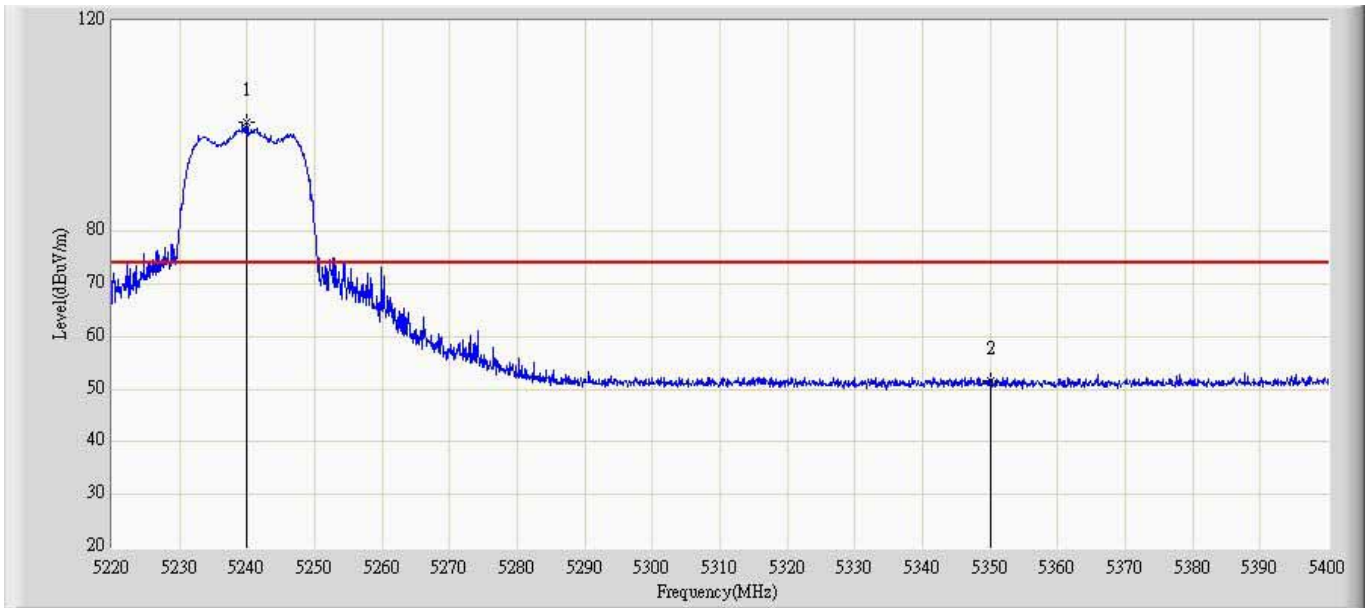
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5148.340 | 71.185 | 29.186 | -2.815 | 74.000 | 41.999 | PK |
| 2 | | * | 5180.380 | 106.517 | 64.486 | N/A | N/A | 42.031 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 16:57 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant1 | |



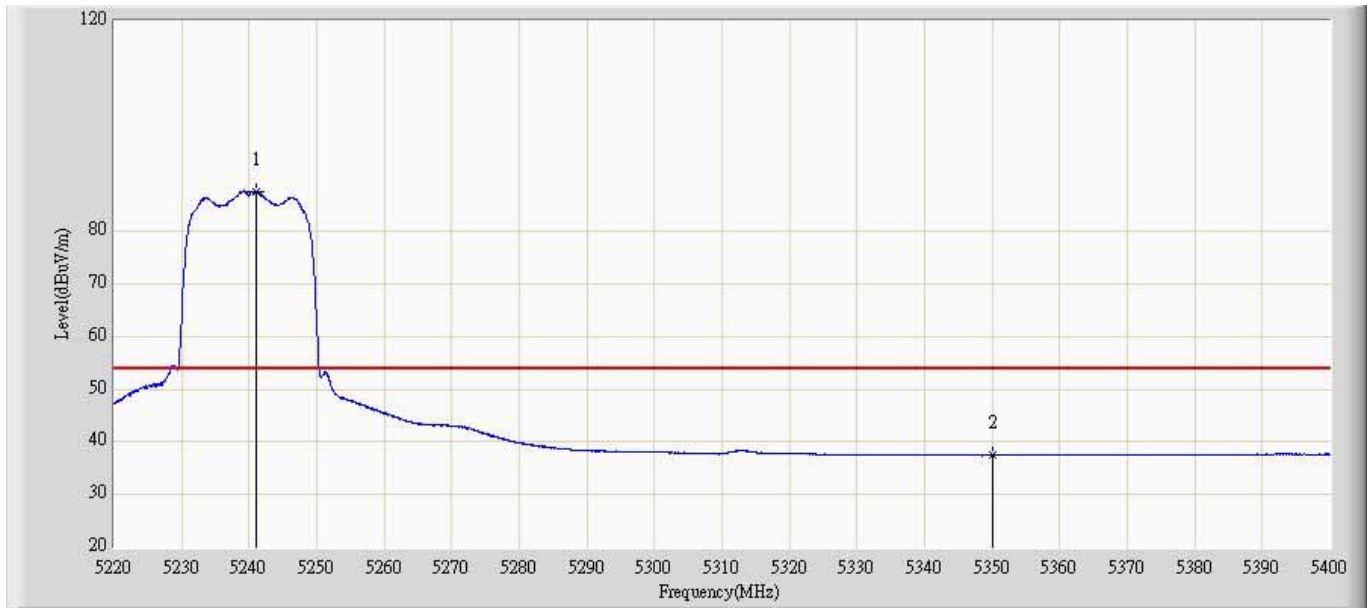
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 47.573 | 5.572 | -6.427 | 54.000 | 42.001 | AV |
| 2 | | * | 5179.165 | 94.757 | 52.727 | N/A | N/A | 42.030 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:00 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant1 | |



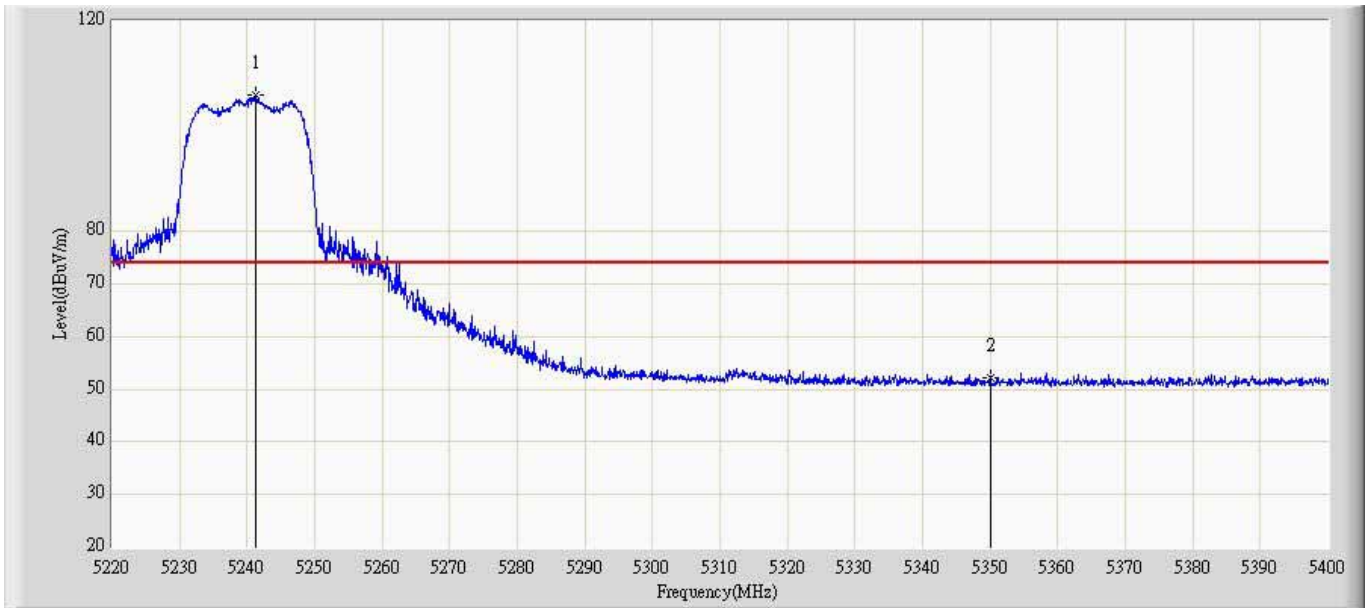
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.980 | 100.841 | 58.580 | N/A | N/A | 42.261 | PK |
| 2 | | | 5350.000 | 51.535 | 9.141 | -22.465 | 74.000 | 42.393 | PK |

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| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:05 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant1 | |



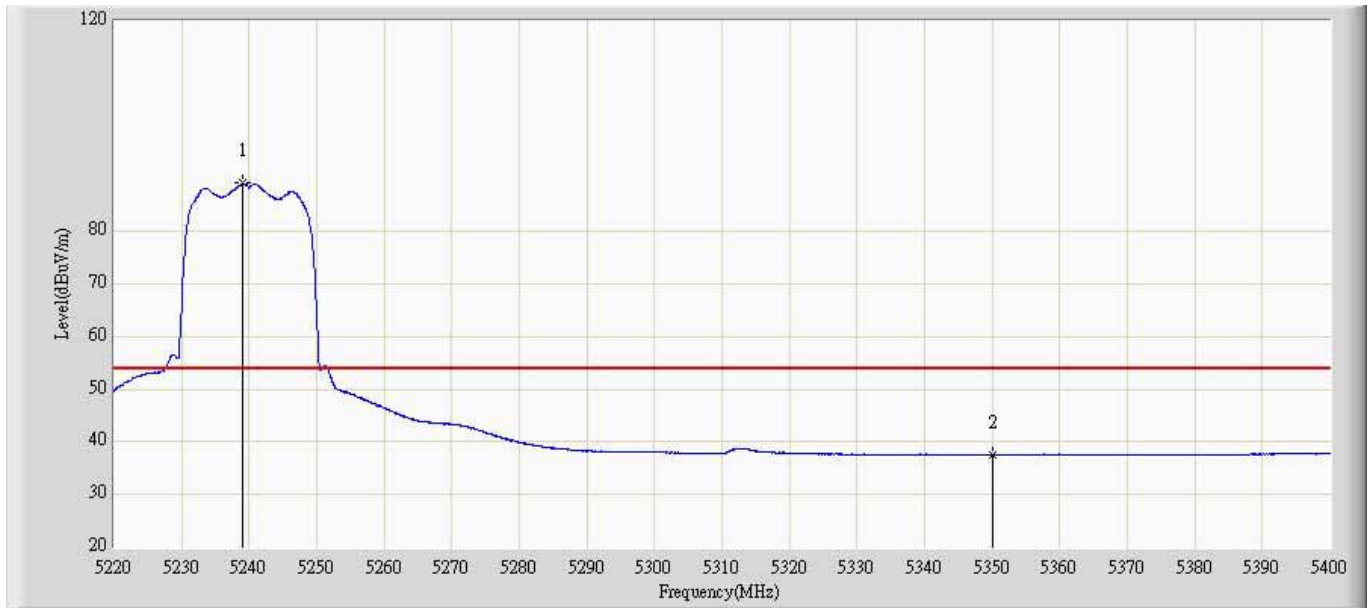
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5241.150 | 87.605 | 45.341 | N/A | N/A | 42.264 | AV |
| 2 | | | 5350.000 | 37.465 | -4.929 | -16.535 | 54.000 | 42.393 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:06 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant1 | |



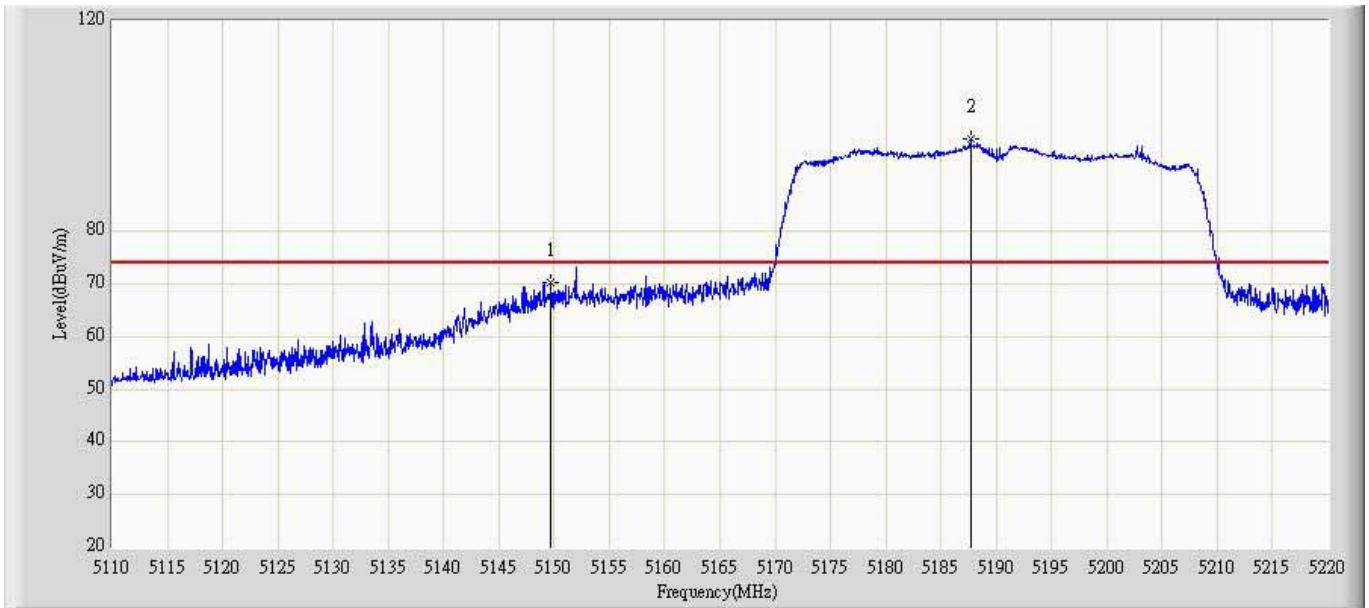
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5241.240 | 105.827 | 63.749 | N/A | N/A | 42.078 | PK |
| 2 | | | 5350.000 | 52.067 | 9.833 | -21.933 | 74.000 | 42.233 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:10 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant1 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.080 | 89.142 | 47.066 | N/A | N/A | 42.076 | AV |
| 2 | | | 5350.000 | 37.482 | -4.752 | -16.518 | 54.000 | 42.233 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:12 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant1 | |



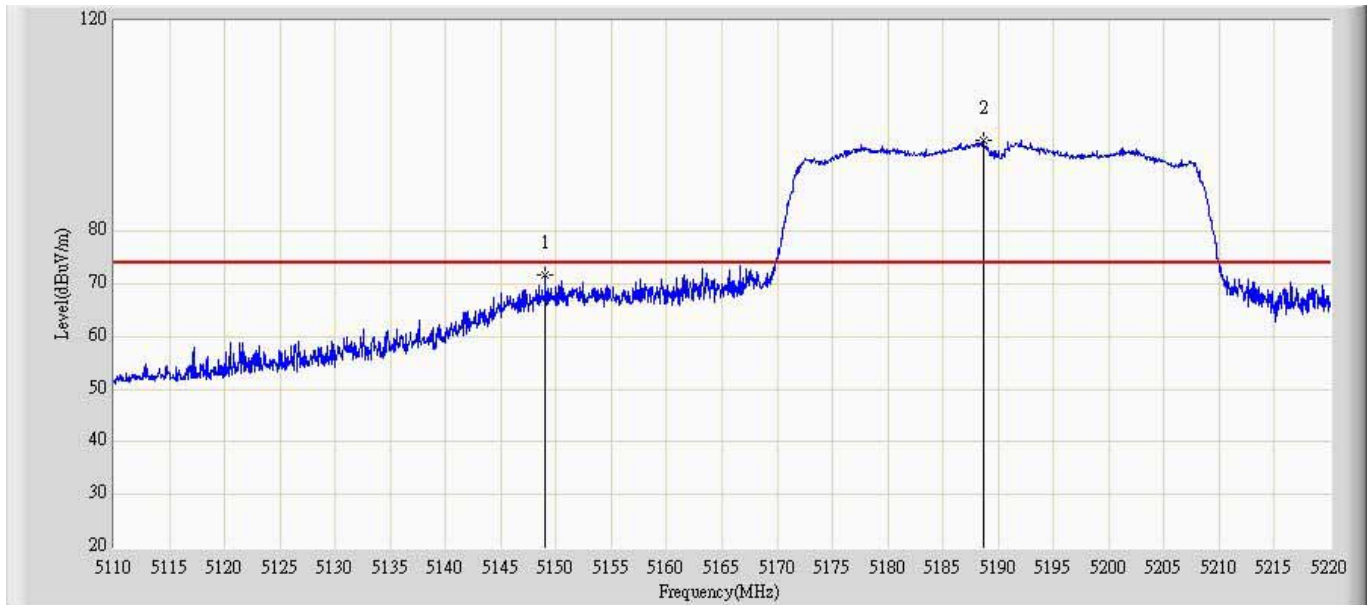
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5149.710 | 70.188 | 28.147 | -3.812 | 74.000 | 42.041 | PK |
| 2 | | * | 5187.660 | 97.727 | 55.592 | N/A | N/A | 42.135 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:16 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant1 | |



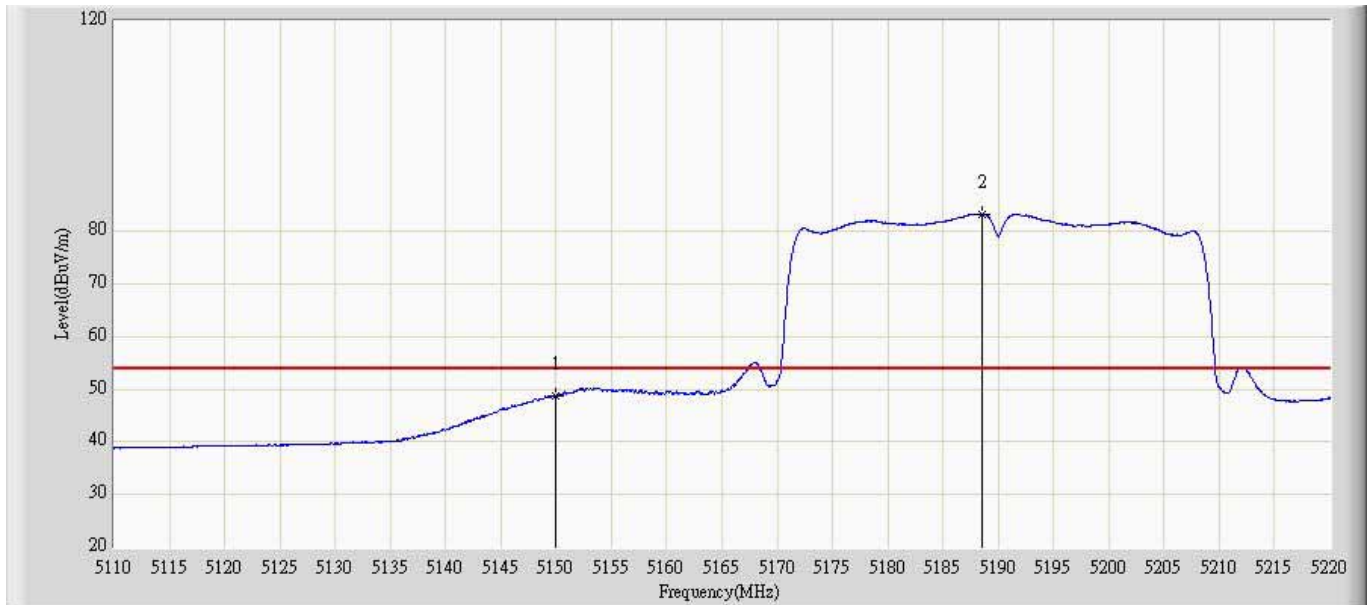
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 48.663 | 6.622 | -5.337 | 54.000 | 42.041 | AV |
| 2 | | * | 5188.815 | 82.918 | 40.780 | N/A | N/A | 42.138 | AV |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:17 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant1 | |



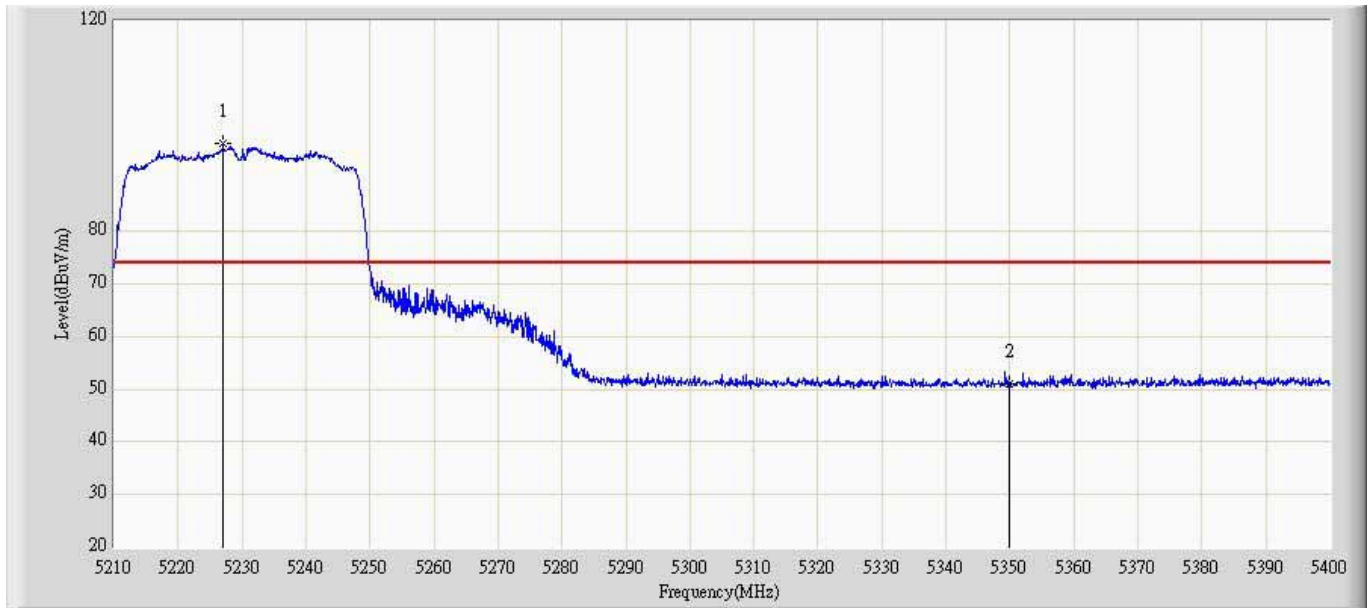
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5149.050 | 71.665 | 29.665 | -2.335 | 74.000 | 42.000 | PK |
| 2 | | * | 5188.650 | 97.256 | 55.220 | N/A | N/A | 42.036 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:21 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant1 | |



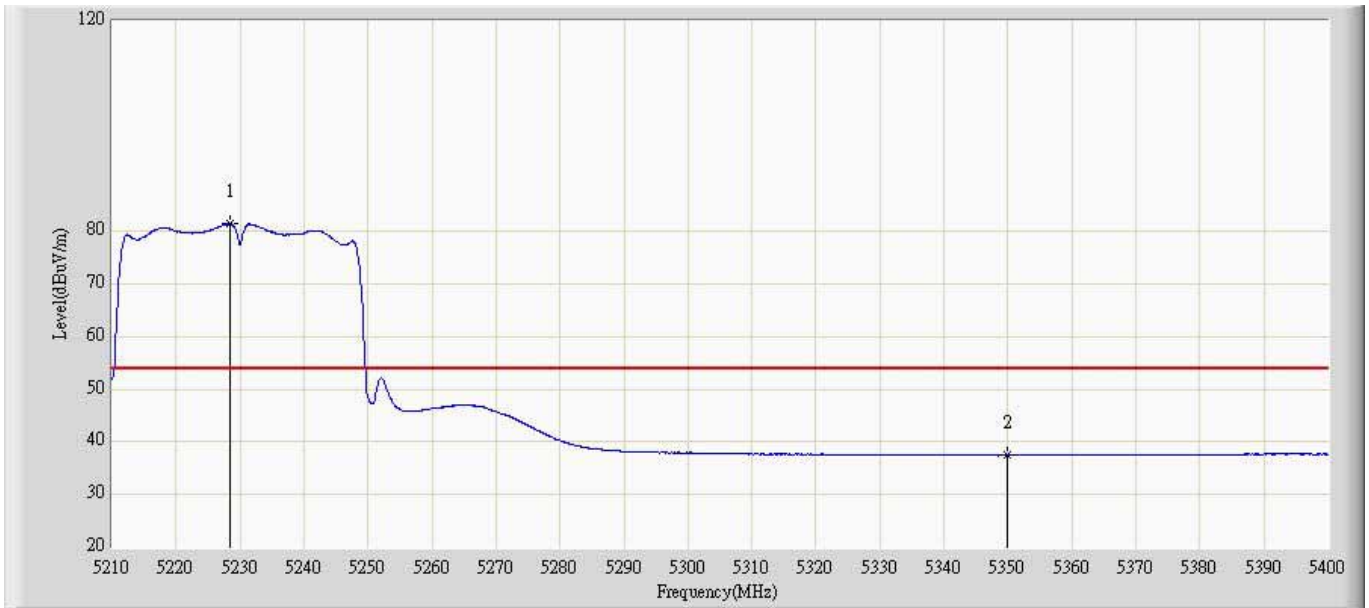
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 48.717 | 6.716 | -5.283 | 54.000 | 42.001 | AV |
| 2 | | * | 5188.485 | 83.229 | 41.193 | N/A | N/A | 42.036 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:23 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant1 | |



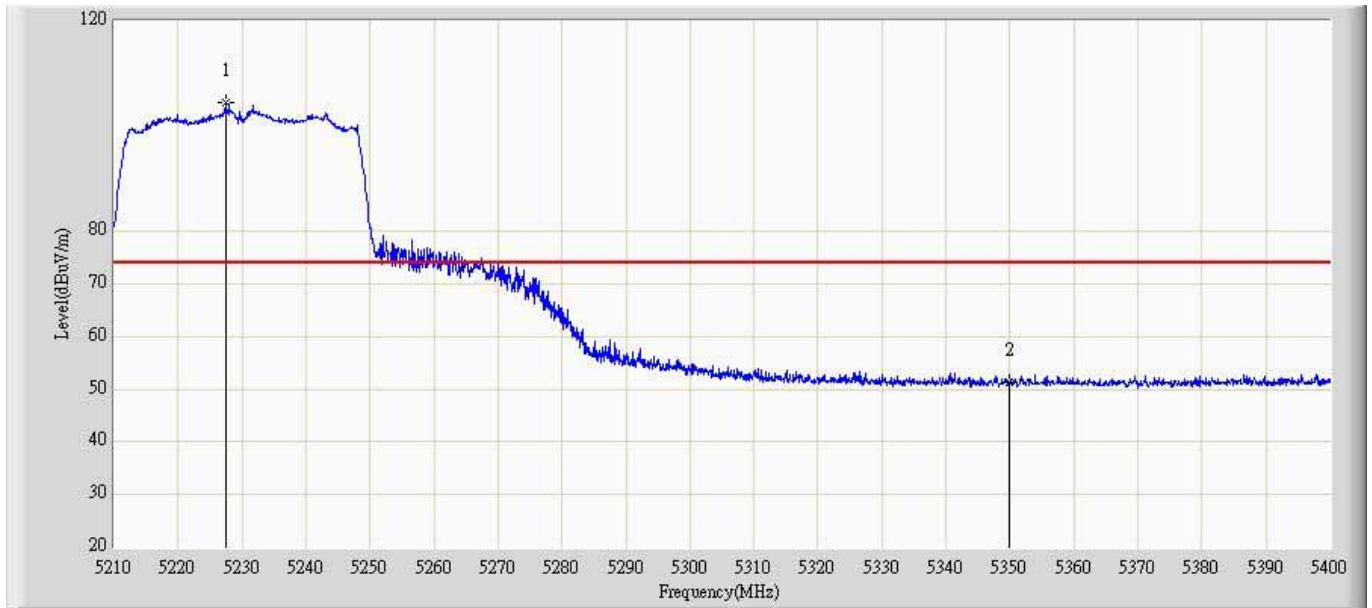
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5227.005 | 96.858 | 54.630 | N/A | N/A | 42.227 | PK |
| 2 | | | 5350.000 | 50.898 | 8.504 | -23.102 | 74.000 | 42.393 | PK |

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|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:26 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant1 | |



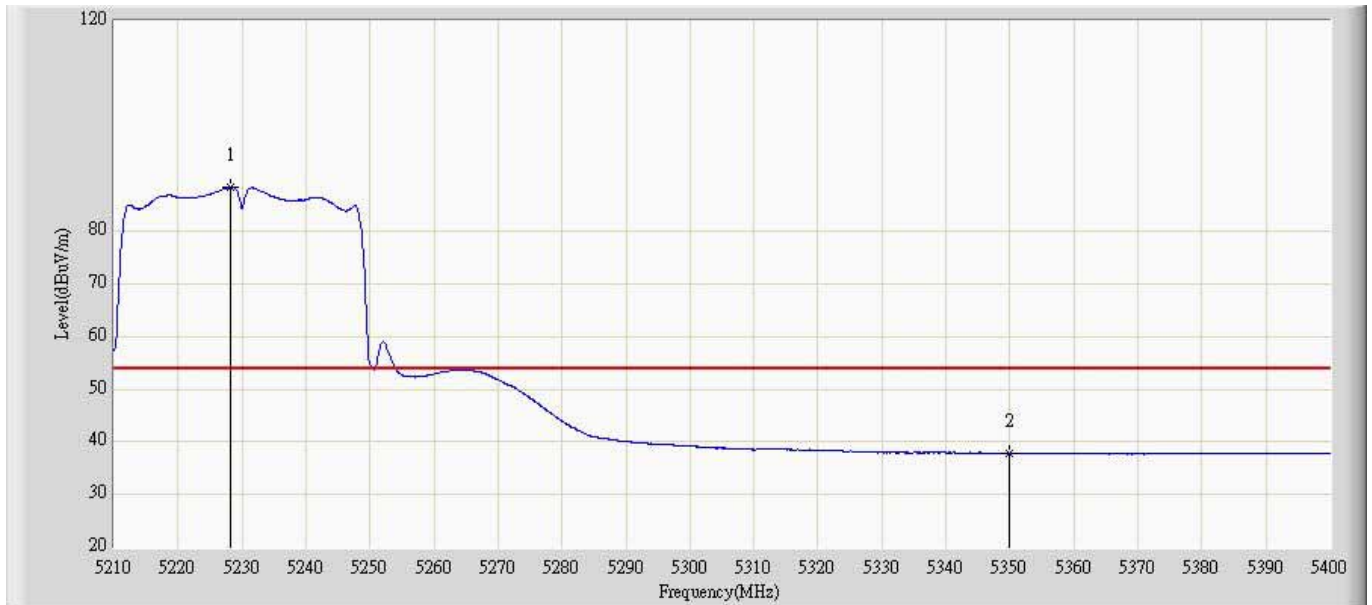
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5228.525 | 81.415 | 39.183 | N/A | N/A | 42.232 | AV |
| 2 | | | 5350.000 | 37.421 | -4.973 | -16.579 | 54.000 | 42.393 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:28 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant1 | |



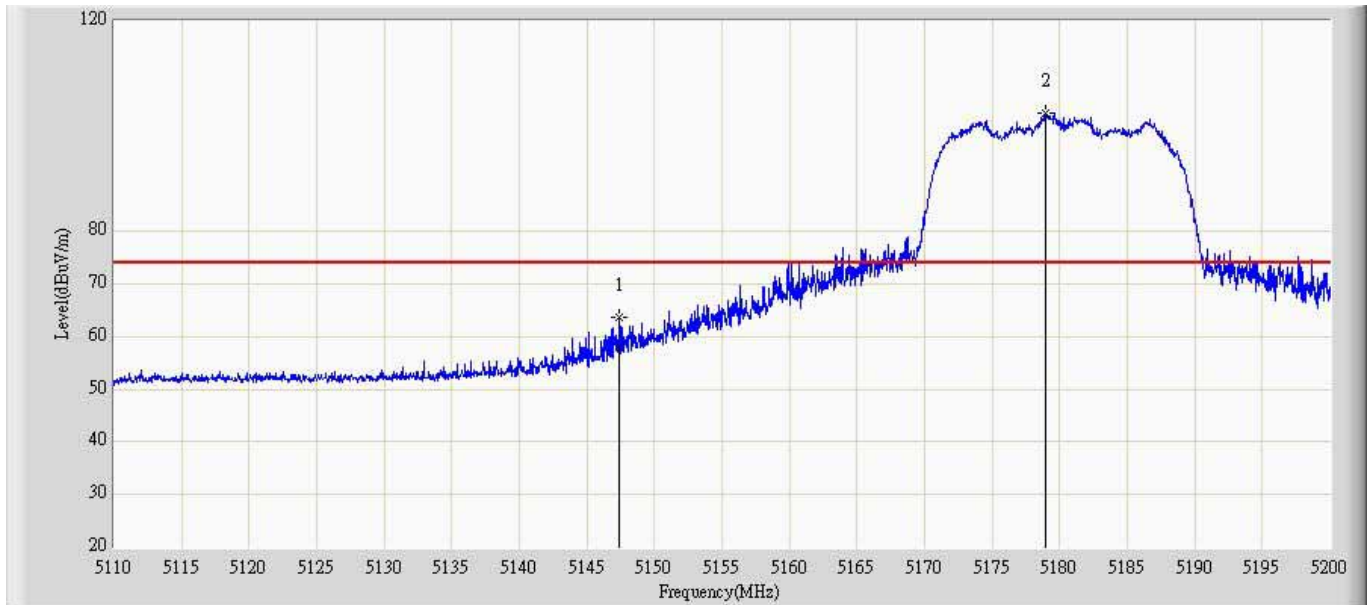
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5227.385 | 104.543 | 62.478 | N/A | N/A | 42.065 | PK |
| 2 | | | 5350.000 | 51.405 | 9.171 | -22.595 | 74.000 | 42.233 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:31 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant1 | |



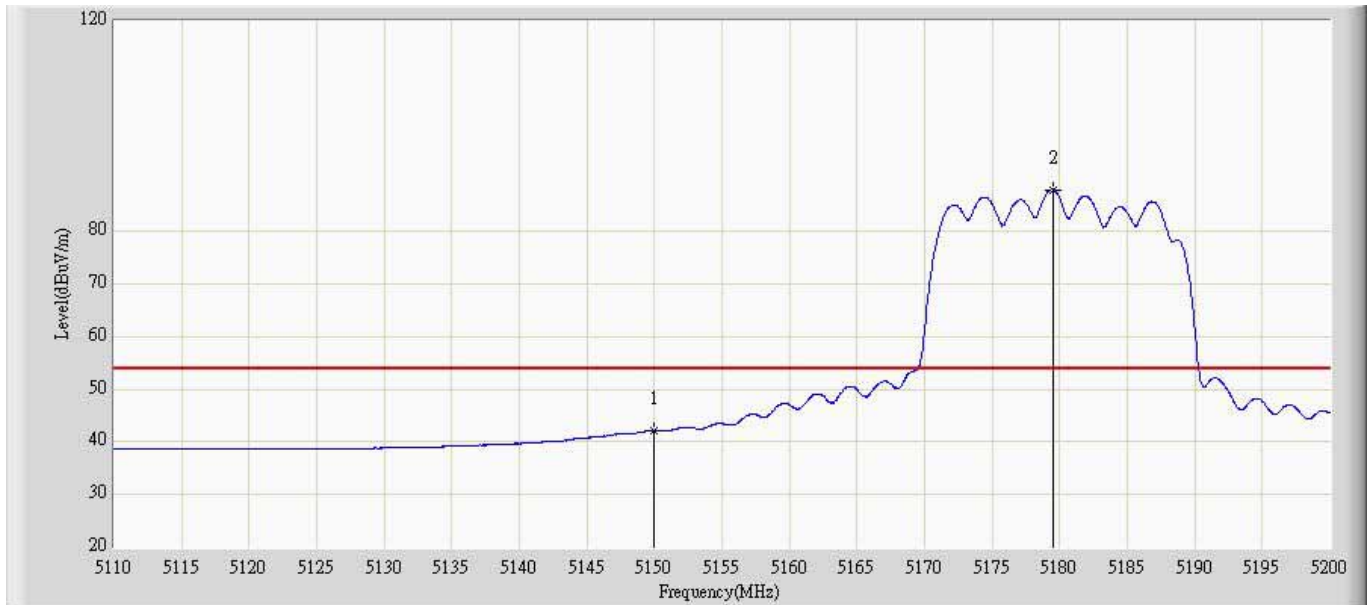
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|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5228.240 | 88.433 | 46.367 | N/A | N/A | 42.066 | AV |
| 2 | | | 5350.000 | 37.783 | -4.451 | -16.217 | 54.000 | 42.233 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:34 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0+1 | |



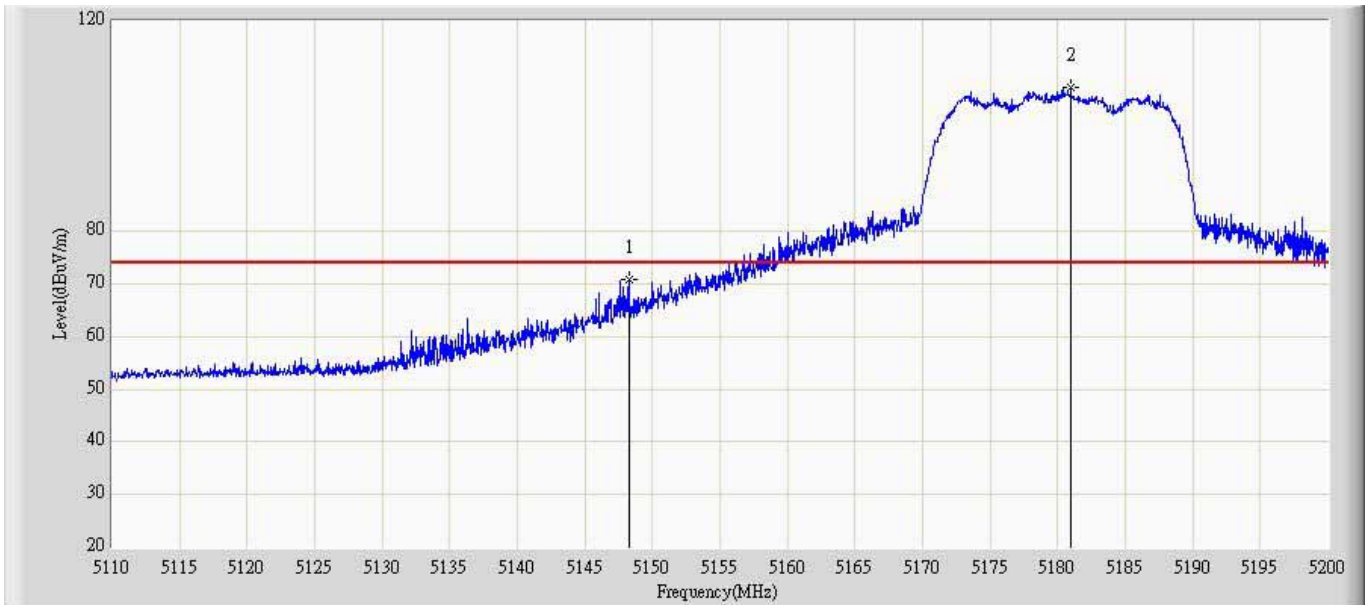
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5147.440 | 63.603 | 21.568 | -10.397 | 74.000 | 42.035 | PK |
| 2 | | * | 5178.940 | 102.602 | 60.486 | N/A | N/A | 42.115 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:37 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0+1 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 42.197 | 0.156 | -11.803 | 54.000 | 42.041 | AV |
| 2 | | * | 5179.525 | 87.955 | 45.838 | N/A | N/A | 42.117 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:38 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0+1 | |



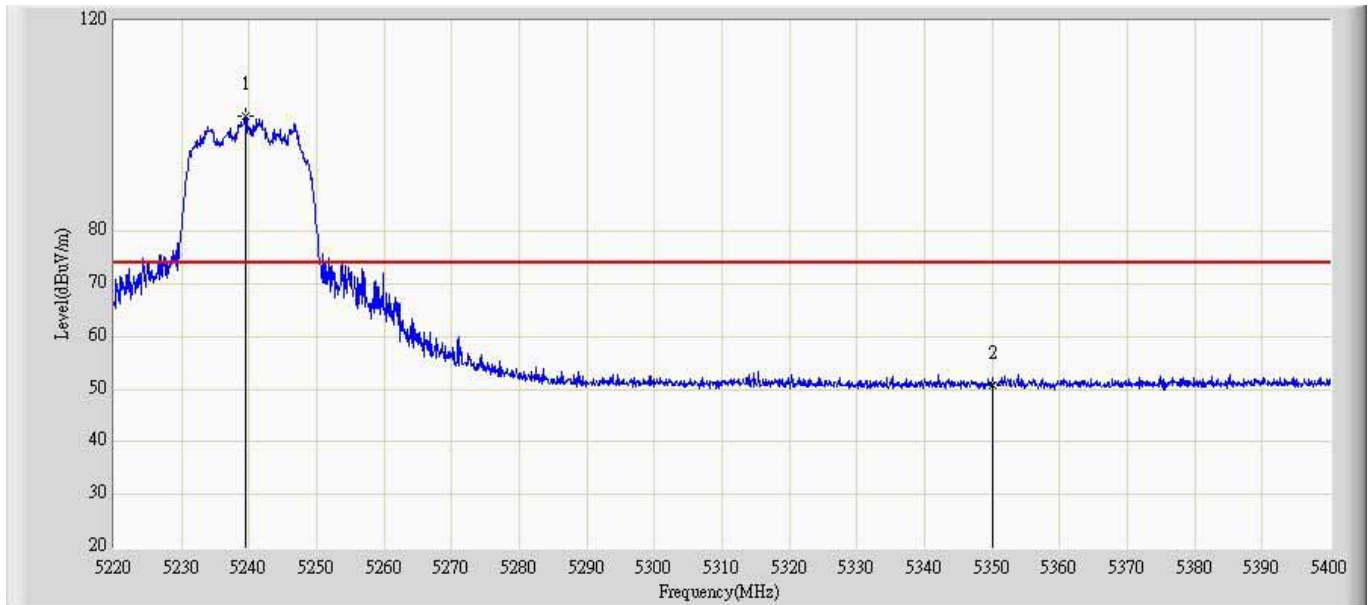
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5148.250 | 70.976 | 28.977 | -3.024 | 74.000 | 41.999 | PK |
| 2 | | * | 5180.965 | 107.493 | 65.462 | N/A | N/A | 42.031 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:42 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5180 by 802.11n(20MHz) ant0+1 | |



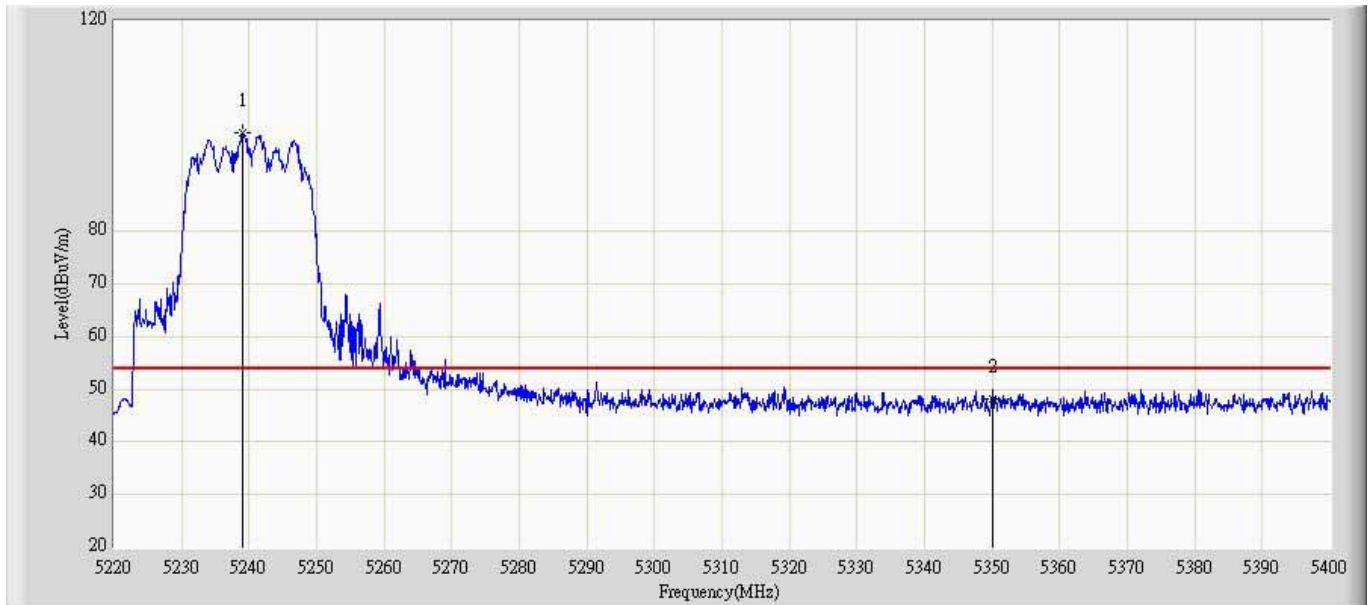
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 46.630 | 4.629 | -7.370 | 54.000 | 42.001 | AV |
| 2 | | * | 5180.335 | 93.986 | 51.955 | N/A | N/A | 42.031 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:43 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0+1 | |



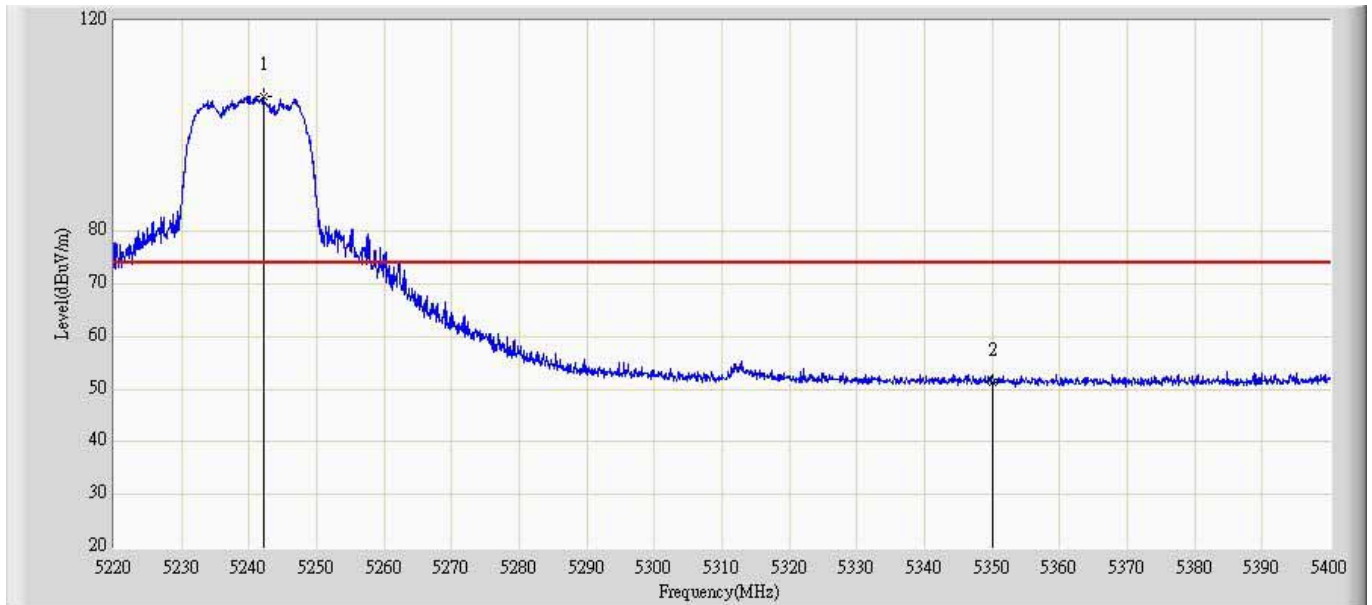
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.530 | 101.832 | 59.572 | N/A | N/A | 42.260 | PK |
| 2 | | | 5350.000 | 50.611 | 8.217 | -23.389 | 74.000 | 42.393 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:46 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0+1 | |



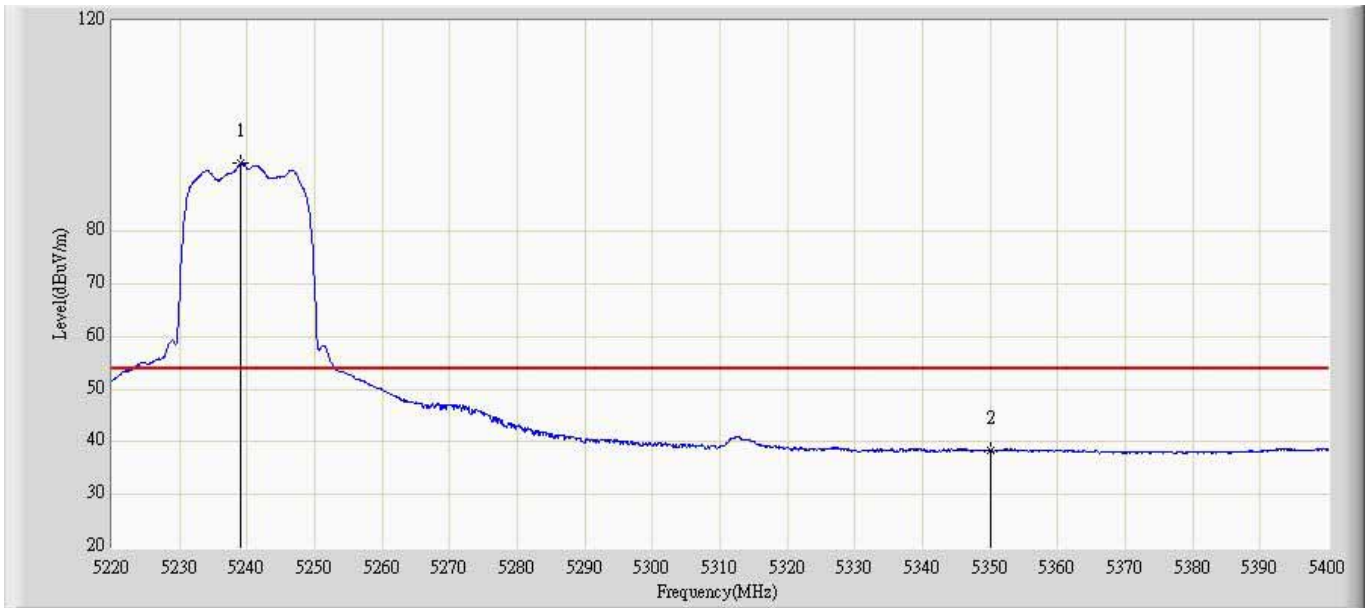
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.080 | 98.746 | 56.487 | N/A | N/A | 42.259 | AV |
| 2 | | | 5350.000 | 48.086 | 5.692 | -5.914 | 54.000 | 42.393 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:46 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0+1 | |



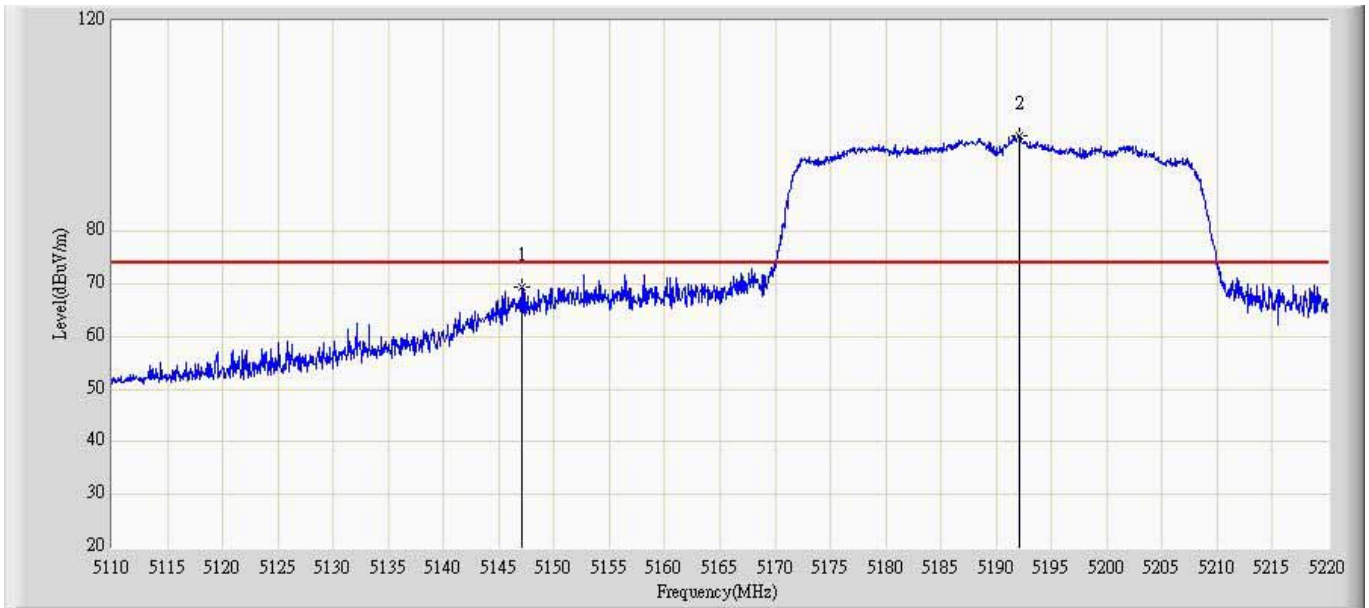
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5242.140 | 105.653 | 63.574 | N/A | N/A | 42.079 | PK |
| 2 | | | 5350.000 | 51.222 | 8.988 | -22.778 | 74.000 | 42.233 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:50 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode2: Transmit at CH5240 by 802.11n(20MHz) ant0+1 | |



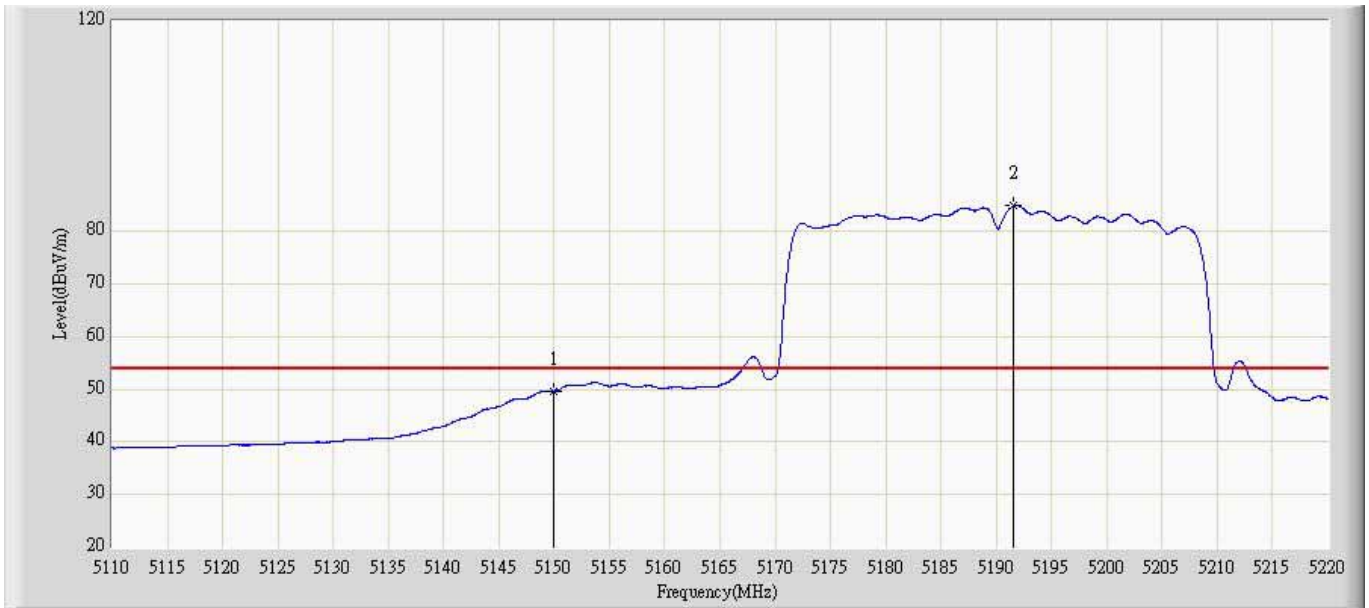
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5239.080 | 92.852 | 50.776 | N/A | N/A | 42.076 | AV |
| 2 | | | 5350.000 | 38.371 | -3.863 | -15.629 | 54.000 | 42.233 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:51 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0+1 | |



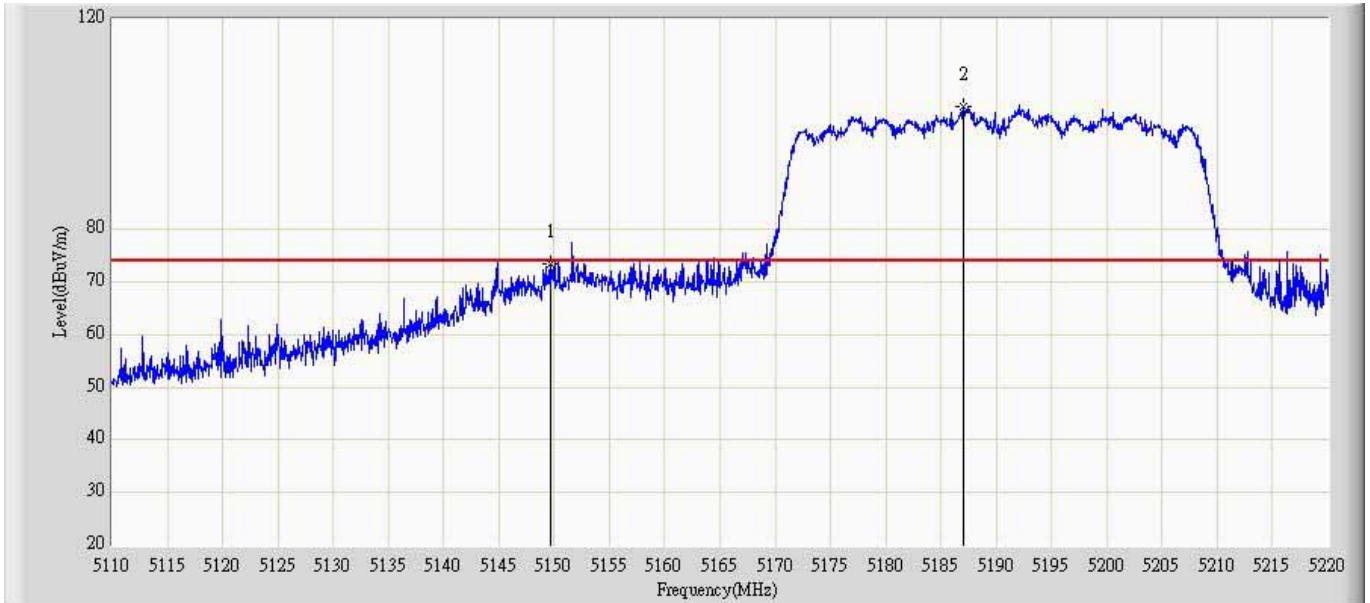
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5147.015 | 69.282 | 27.248 | -4.718 | 74.000 | 42.034 | PK |
| 2 | | * | 5192.060 | 98.263 | 56.118 | N/A | N/A | 42.145 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:54 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0+1 | |



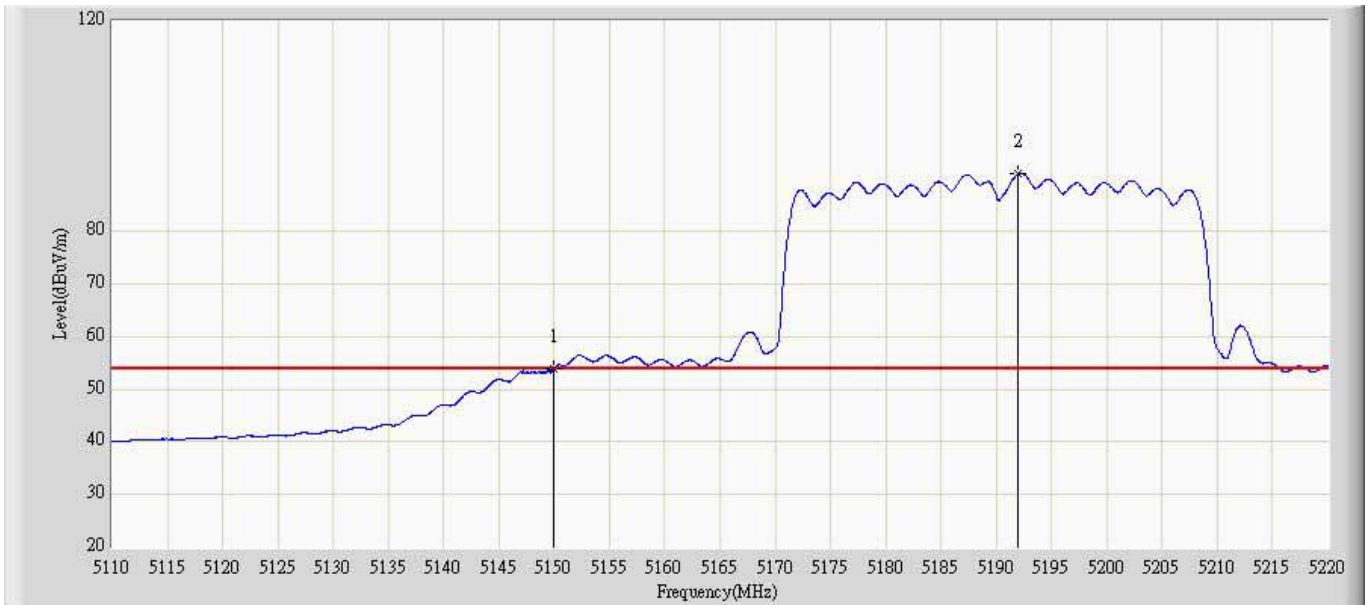
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 49.565 | 7.524 | -4.435 | 54.000 | 42.041 | AV |
| 2 | | * | 5191.565 | 84.806 | 42.662 | N/A | N/A | 42.144 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:55 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0+1 | |



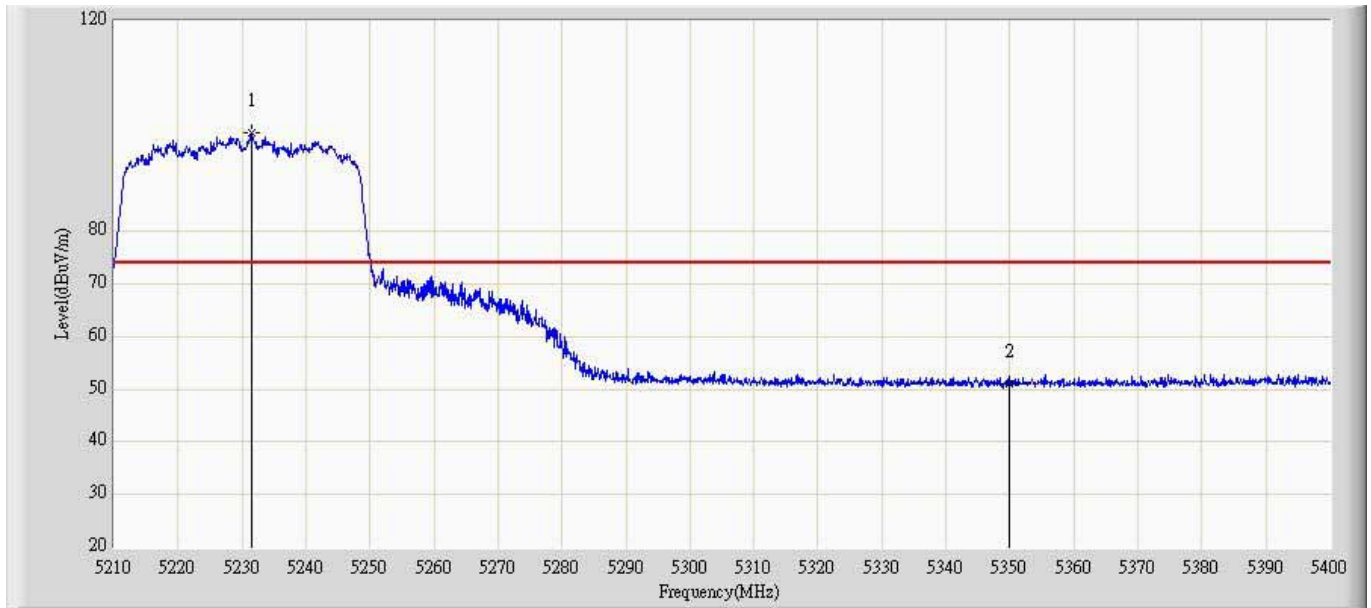
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5149.655 | 73.582 | 31.581 | -0.418 | 74.000 | 42.001 | PK |
| 2 | | * | 5187.000 | 103.459 | 61.424 | N/A | N/A | 42.035 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 17:56 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5190 by 802.11n(40MHz) ant0+1 | |



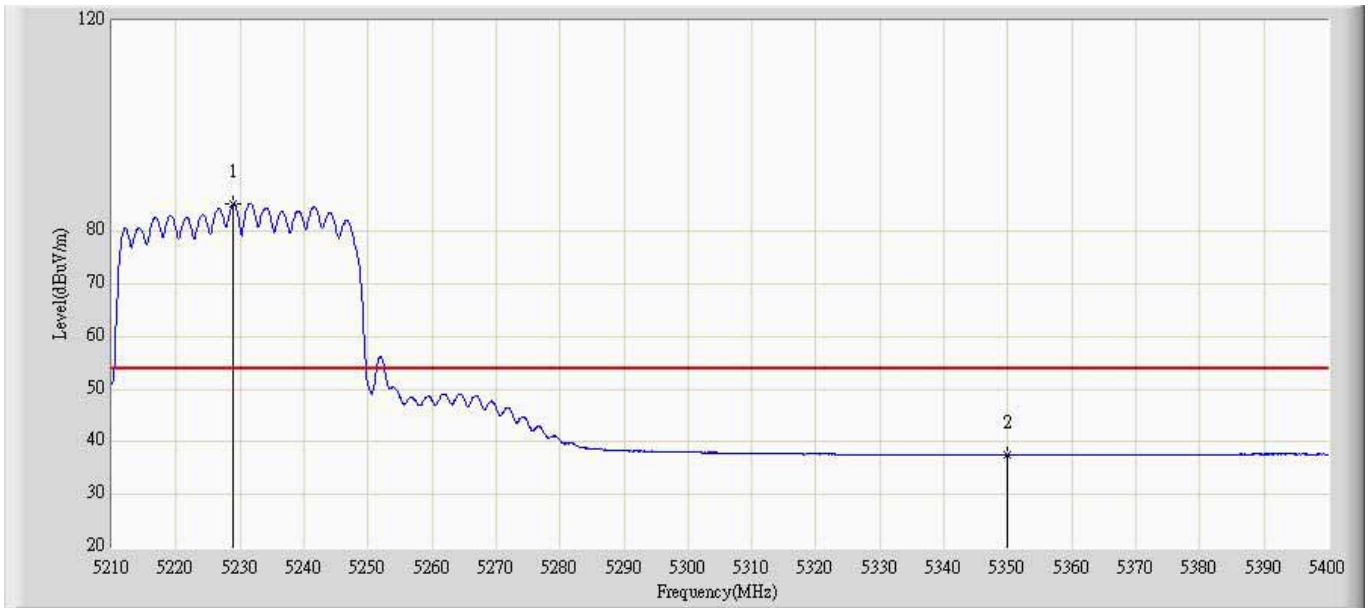
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | | 5150.000 | 53.876 | 11.875 | -0.124 | 54.000 | 42.001 | AV |
| 2 | | * | 5192.005 | 90.963 | 48.925 | N/A | N/A | 42.038 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 18:01 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0+1 | |



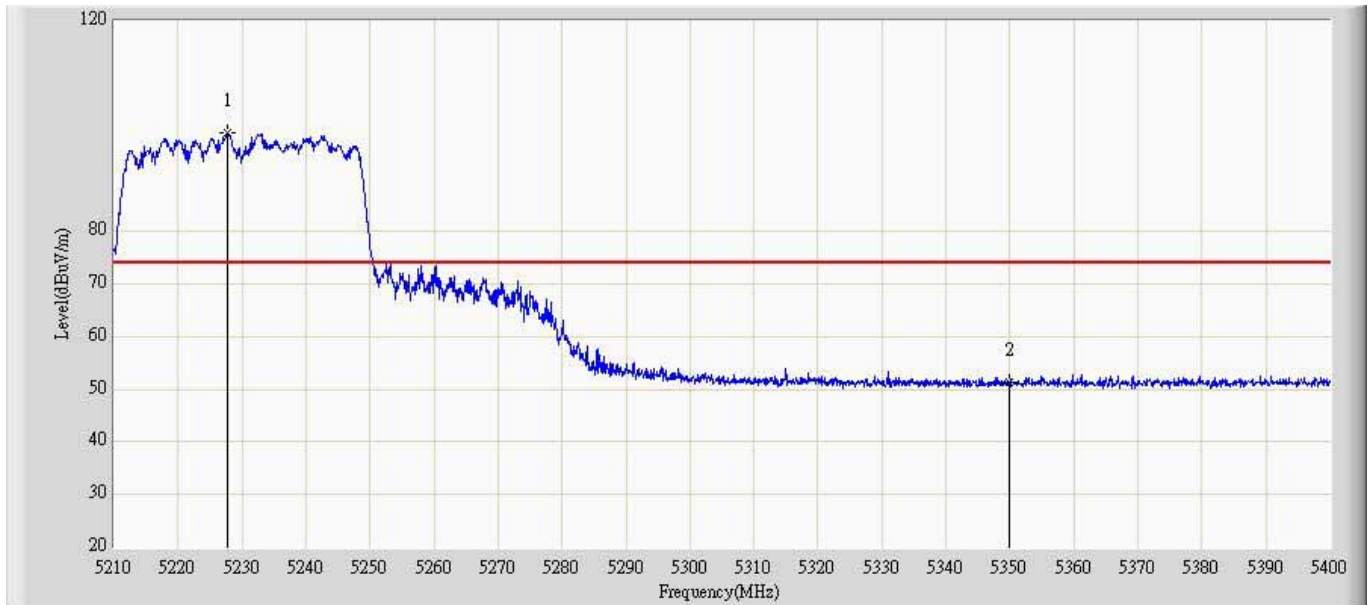
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5231.470 | 98.607 | 56.368 | N/A | N/A | 42.240 | PK |
| 2 | | | 5350.000 | 51.093 | 8.699 | -22.907 | 74.000 | 42.393 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 18:03 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Horizontal |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0+1 | |



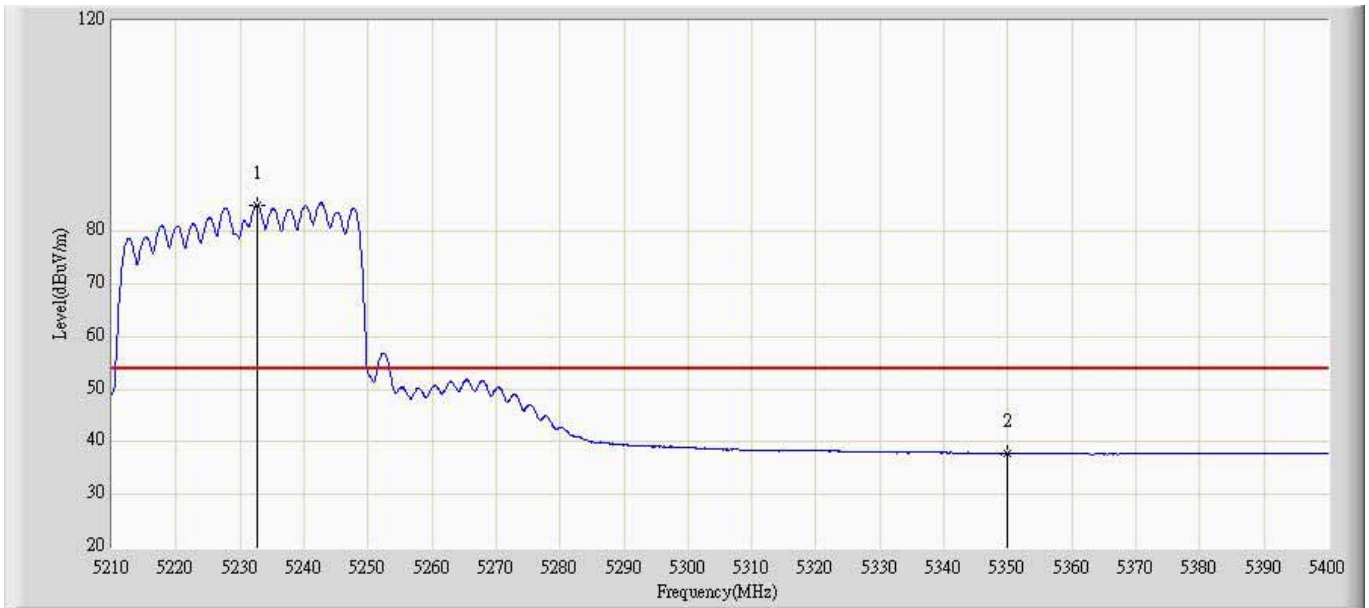
| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5229.000 | 85.170 | 42.937 | N/A | N/A | 42.233 | AV |
| 2 | | | 5350.000 | 37.416 | -4.978 | -16.584 | 54.000 | 42.393 | AV |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 18:05 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0+1 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5227.670 | 98.745 | 56.680 | N/A | N/A | 42.065 | PK |
| 2 | | | 5350.000 | 51.457 | 9.223 | -22.543 | 74.000 | 42.233 | PK |

| | |
|--|--------------------------|
| Engineer: Cloud | |
| Site: AC5 | Time: 2014/01/26 - 18:15 |
| Limit: FCC_Part15.209_RE(3m) | Margin: 0 |
| Probe: Horn_3117_988(1-18GHz) | Polarity: Vertical |
| EUT: IP-STB | Power: 120V/60Hz |
| Note: Mode3: Transmit at CH5230 by 802.11n(40MHz) ant0+1 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Factor | Type |
|----|------|------|-----------------|------------------------|----------------------|-----------------|----------------|--------|------|
| 1 | | * | 5232.610 | 85.085 | 43.015 | N/A | N/A | 42.070 | AV |
| 2 | | | 5350.000 | 37.728 | -4.506 | -16.272 | 54.000 | 42.233 | AV |

11. Frequency Stability

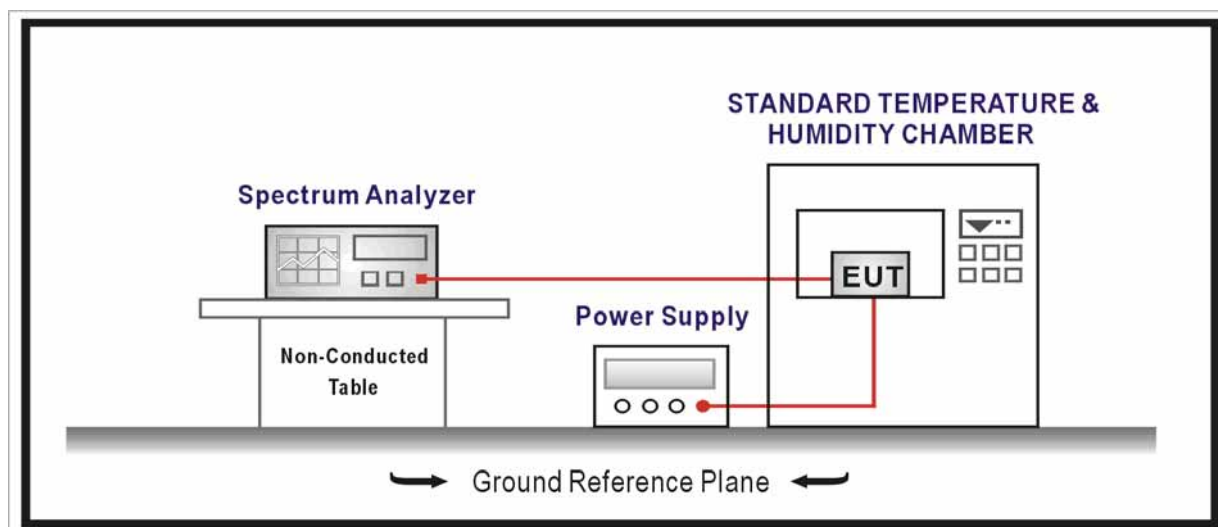
11.1. Test Equipment

Frequency Stability / TR-8

| Instrument | Manufacturer | Type No. | Serial No. | Cali. Due Date |
|---|--------------|--------------|--------------|----------------|
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2015.01.07 |
| AC Power Supply | IDRC | CF-500TP | 979422 | 2014.09.16 |
| DC Power Supply | IDRC | CD-035-020PR | 977272 | 2014.09.16 |
| Programmable Temperature & Humidity Chamber | Gaoyu | TH-1P-B | WIT-05121302 | 2015.01.07 |
| 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.

11.2. Test Setup



11.3. Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

11.4. Test Procedure

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

11.5. Uncertainty

The measurement uncertainty is defined as ± 100 Hz

11.6. Test Result

| | | |
|-----------|---|---------------------|
| Product | : | IP-STB |
| Test Item | : | Frequency Stability |
| Test Site | : | TR-8 |
| Test Mode | : | Carrier Transmit |

| Operating Frequency | Temp (°C) | Voltage (AC) | Frequency Tolerance (ppm) | | | |
|---------------------|-----------|--------------|---------------------------|-----------|-----------|------------|
| | | | 0 minutes | 2 minutes | 5 minutes | 10 minutes |
| 36 | 0 | 102 | 2.42 | 2.44 | 2.48 | 2.42 |
| | | 120 | 2.07 | 2.07 | 2.01 | 2.07 |
| | | 138 | 2.24 | 2.27 | 2.33 | 2.19 |
| | 25 | 102 | 2.56 | 2.53 | 2.51 | 2.55 |
| | | 120 | 2.51 | 2.53 | 2.51 | 2.52 |
| | | 138 | 2.17 | 2.20 | 2.17 | 2.15 |
| | 45 | 102 | 2.64 | 2.61 | 2.67 | 2.64 |
| | | 120 | 2.31 | 2.35 | 2.37 | 2.38 |
| | | 138 | 2.14 | 2.14 | 2.24 | 2.22 |
| 44 | 0 | 102 | 2.54 | 2.52 | 2.57 | 2.48 |
| | | 120 | 2.07 | 2.02 | 2.05 | 2.01 |
| | | 138 | 2.19 | 2.21 | 2.25 | 2.14 |
| | 25 | 102 | 2.54 | 2.53 | 2.57 | 2.51 |
| | | 120 | 2.61 | 2.54 | 2.62 | 2.54 |
| | | 138 | 2.62 | 2.60 | 2.52 | 2.61 |
| | 45 | 102 | 2.54 | 2.53 | 2.58 | 2.61 |
| | | 120 | 2.04 | 2.01 | 2.07 | 2.04 |
| | | 138 | 2.17 | 2.24 | 2.31 | 2.24 |
| 48 | 0 | 102 | 2.39 | 2.44 | 2.44 | 2.48 |
| | | 120 | 2.48 | 2.51 | 2.54 | 2.47 |
| | | 138 | 2.17 | 2.21 | 2.36 | 2.24 |
| | 25 | 102 | 2.32 | 2.34 | 2.35 | 2.32 |
| | | 120 | 2.24 | 2.27 | 2.23 | 2.27 |
| | | 138 | 2.01 | 2.03 | 2.07 | 2.04 |
| | 45 | 102 | 2.44 | 2.38 | 2.39 | 2.4 |
| | | 120 | 2.17 | 2.11 | 2.05 | 2.09 |
| | | 138 | 2.27 | 2.37 | 2.28 | 2.33 |

12. Receiver Spurious Emission for Industry Canada RSS-Gen Requirement

12.1. Test Equipment

Radiated Emission / AC-2

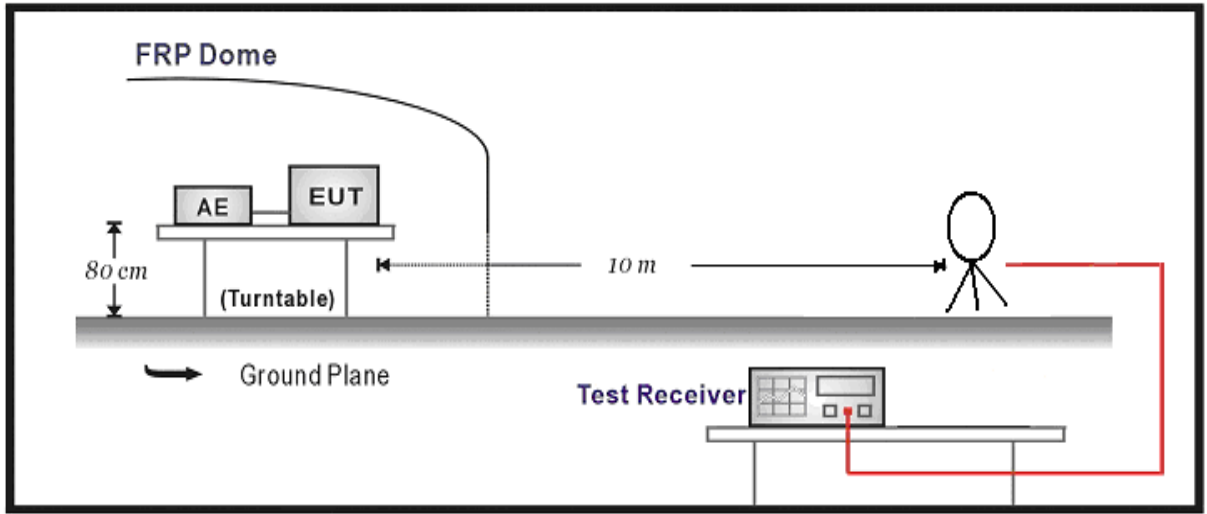
| Instrument | Manufacturer | Type No. | Serial No. | Cali. Due Date |
|----------------------------|--------------|--------------|------------|----------------|
| EMI Test Receiver | R&S | ESCI | 100573 | 2014.03.30 |
| Loop Antenna | R&S | HFH2-Z2 | 833799/003 | 2014.11.22 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27611 | 2014.10.15 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC2-C | 2014.03.01 |
| Temperature/Humidity Meter | Zhicheng | ZC1-2 | AC2-TH | 2015.01.08 |

Radiated Emission / AC-5

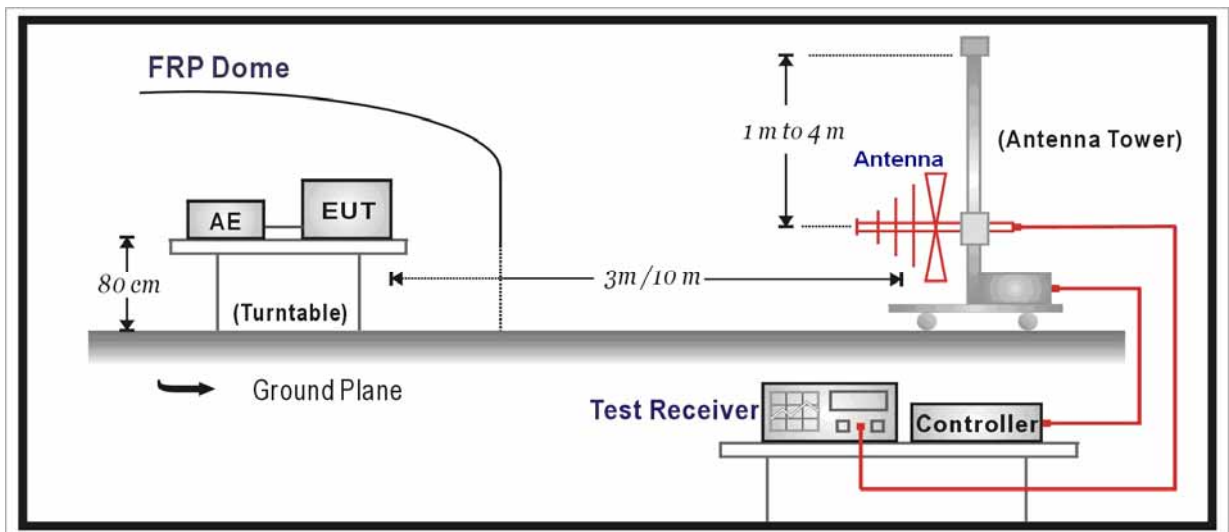
| Instrument | Manufacturer | Type No. | Serial No. | Cal. Date |
|----------------------------|--------------|--------------|-------------|------------|
| Spectrum Analyzer | Agilent | N9020A | MY49100159 | 2014.03.30 |
| Spectrum Analyzer | Agilent | E4446A | MY45300103 | 2014.01.21 |
| Preamplifier | Miteq | NSP1800-25 | 1364185 | 2014.05.04 |
| Preamplifier | QuieTek | AP-040G | CHM-0906001 | 2014.05.04 |
| DRG Horn | ETS-Lindgren | 3117 | 00123988 | 2014.01.21 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 294 | 2014.11.24 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C1 | 2014.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C2 | 2014.03.01 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | AC5-C3 | 2014.03.01 |
| EMI Receiver | Agilent | N9038A | MY51210196 | 2014.06.09 |
| Temperature/Humidity Meter | Zhichen | ZC1-2 | AC5-TH | 2015.01.08 |

12.2. Test Setup

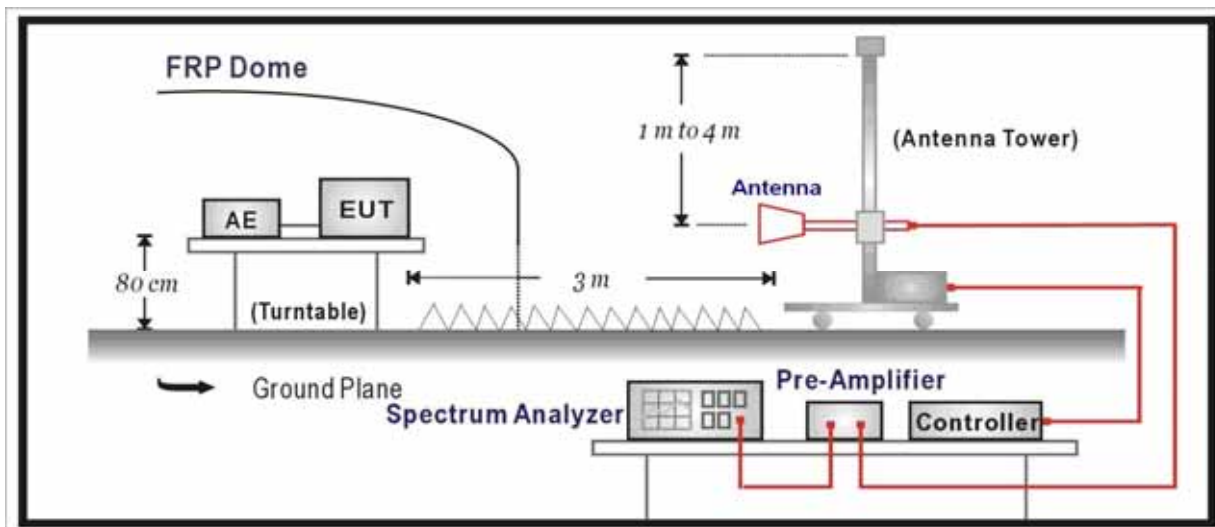
Below 30MHz Test Setup:



Below 1GHz Test Setup:



Above 1GHz Test Setup:



12.3. Limit

| FCC Part 15 Subpart B Paragraph 15.109 | | |
|--|--------------|----------------|
| Frequency (MHz) | Distance (m) | Level (dBuV/m) |
| 30 - 88 | 3 | 40 |
| 88 - 216 | 3 | 43.5 |
| 216 - 960 | 3 | 46 |
| Above 960 | 3 | 54 |

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

Note 3: E field strength (dBuV/m) = 20 log E field strength (uV/m)

12.4. Test Procedure

According to ANSI C63.10: 2009.

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the

maximum emission, all of the interface cables were manipulated according to ANSI C63.4: 2009 on radiated measurement.

The resolution bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

The frequency range from 9kHz to10th harmonic is checked.

Note: When doing emission measurement above 1GHz, the horn antenna will be bended down a little (as horn antenna has the narrow beamwidth) in order to keeping the antenna in the “cone of radiation” of EUT. The 3dB beamwidth is 60~10 degrees for H-plane and 90~10 degrees for E-plane.

12.5. Uncertainty

The measurement uncertainty above 1G is defined as ± 3.9 dB
below 1G is defined as ± 3.8 dB

12.6. Test Result

All of the test result shown indicates the worst case, and spectrum analyzer parameters setting as shown below:

Peak detector: RBW = 1MHz, VBW = 3MHz, sweep time = 200ms;

Average detector: RBW = 1MHz, VBW = 10Hz, sweep time = auto.

Measure Level = Reading Level + Cable Loss + Antenna Factor - Preampifier Gain

Mode 1: Receive by 802.11n (20MHz)

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|---------|----|---------|-----------------|------------------------|-------------|------------------------|----------------|-------------|----------|
| Ant 0+1 | 36 | H | 368.9 | 4.8 | 25.6 | 30.4 | 46 | -15.6 | QP |
| | | V | 412.3 | 3.9 | 25.6 | 29.4 | 46 | -16.6 | QP |
| | | H | 2241.0 | 37.0 | -0.6 | 36.4 | 54(Note1) | -17.6 | PK |
| | | V | 2317.5 | 38.2 | -0.3 | 37.9 | 54(Note1) | -16.1 | PK |
| | 40 | H | 605.7 | 5.8 | 29.1 | 34.8 | 46 | -11.2 | QP |
| | | V | 650.3 | 4.3 | 28.8 | 33.0 | 46 | -13.0 | QP |
| | | H | 2130.5 | 41.3 | -1.3 | 40.0 | 54(Note1) | -14.0 | PK |
| | | V | 2283.5 | 39.3 | -0.3 | 39.0 | 54(Note1) | -15.0 | PK |
| | 48 | H | 804.2 | 6.0 | 32.3 | 38.3 | 46 | -7.7 | QP |
| | | V | 846.5 | 5.5 | 33.0 | 38.6 | 46 | -7.4 | QP |
| | | H | 1603.5 | 40.0 | -4.5 | 35.5 | 54(Note1) | -18.5 | PK |
| | | V | 1722.5 | 40.1 | -3.2 | 36.9 | 54(Note1) | -17.1 | PK |

Note1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

Mode 2: Receive by 802.11n (40MHz)

| Chain | CH | Antenna | Frequency (MHz) | Reading Level (dBuV/m) | Factor (dB) | Measure Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|------------|----|---------|-----------------|------------------------|-------------|------------------------|----------------|-------------|----------|
| Ant 0+1 | 38 | H | 351.3 | 6.9 | 23.8 | 30.7 | 46 | -15.4 | QP |
| | | V | 399.9 | 8.5 | 26.2 | 34.7 | 46 | -11.3 | QP |
| | | H | 2394.0 | 38.4 | 0.0 | 38.4 | 54(Note1) | -15.6 | PK |
| | | V | 2589.5 | 38.3 | 0.9 | 39.2 | 54(Note1) | -14.8 | PK |
| | 46 | H | 754.1 | 6.1 | 32.7 | 38.8 | 46 | -7.2 | QP |
| | | V | 867.7 | 6.3 | 33.3 | 39.5 | 46 | -6.5 | QP |
| | | H | 2054.0 | 40.0 | -0.8 | 39.2 | 54(Note1) | -14.8 | PK |
| | | V | 2181.5 | 39.3 | -0.7 | 38.6 | 54(Note1) | -15.4 | PK |

Note1: This limit applies for using average detector, if the test result on peak is lower than average limit, then average measurement needn't be performed.

_____ The End _____