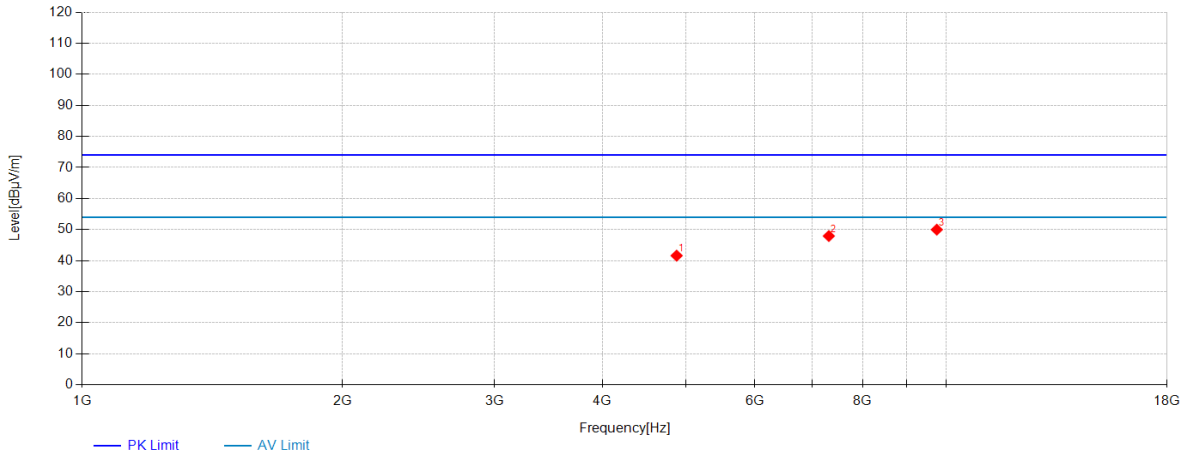
## 802.11ax40_Channel 6 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | AF[dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1 | 4874 | 53.77 | 30.74 | -42.90 | 41.61 | 74.00 | 32.39 | Vertical |
| 2 | 7311 | 50.32 | 36.42 | -38.81 | 47.93 | 74.00 | 26.07 | Vertical |
| 3 | 9748 | 47.72 | 38.30 | -36.04 | 49.98 | 74.00 | 24.02 | Vertical |

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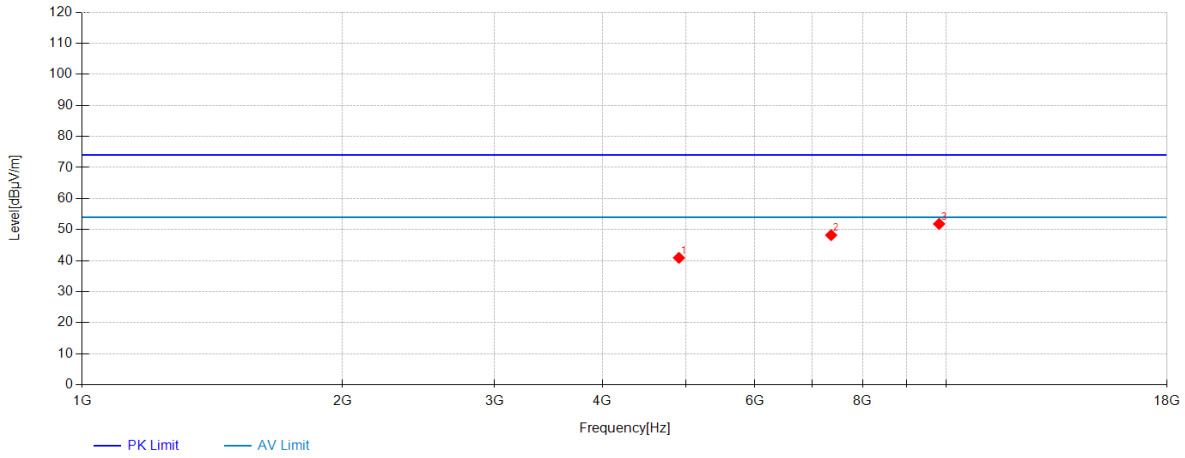
## 802.11ax40_Channel 9 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 4904 | 52.86 | 30.91 | -42.87 | 40.90 | 74.00 | 33.10 | Horizontal |
| 2 | 7356 | 50.24 | 36.52 | -38.54 | 48.22 | 74.00 | 25.78 | Horizontal |
| 3 | 9808 | 49.04 | 38.45 | -35.67 | 51.82 | 74.00 | 22.18 | Horizontal |

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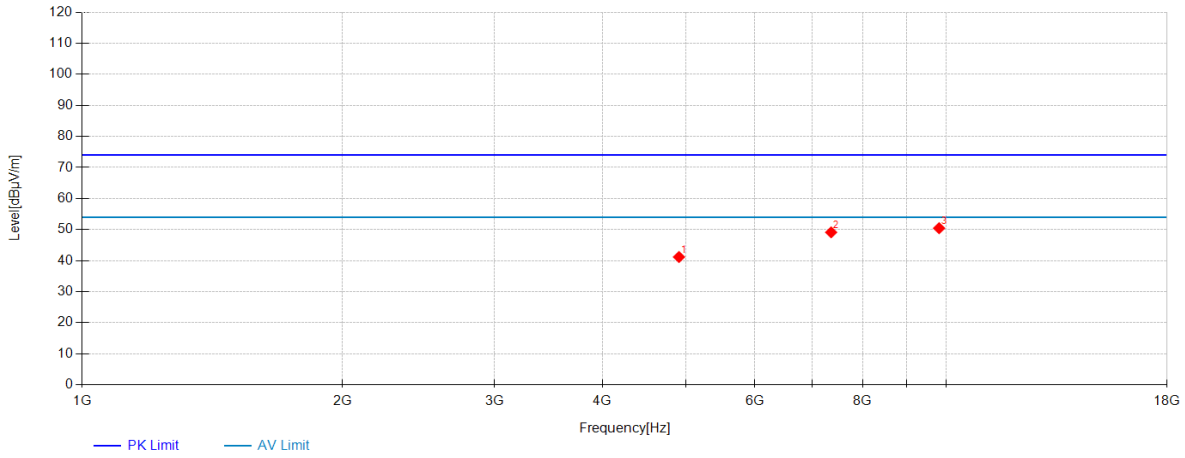
## 802.11ax40_Channel 9 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 4904 | 53.14 | 30.91 | -42.87 | 41.18 | 74.00 | 32.82 | Vertical |
| 2 | 7356 | 51.13 | 36.52 | -38.54 | 49.11 | 74.00 | 24.89 | Vertical |
| 3 | 9808 | 47.67 | 38.45 | -35.67 | 50.45 | 74.00 | 23.55 | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
   Level = Reading(dBµV) + AF(dB/m) + Factor(dB):
   AF = Antenna Factor(dB/m)
   Factor = Cable Factor(dB) - Preamplifier gain(dB)
   Margin = Limit(dBµV/m) – Level(dBµV/m)
2) All channels have been tested, but only the worst case data displayed in this report.
3) Both peak and average measured complies with the limit line, so test result is "PASS"
4) For WLAN SISO & CDD/MIMO mode for 802.11b/g/n/ax mode, the whole testing has assessed only CDD/MIMO mode by referring to their higher output power.

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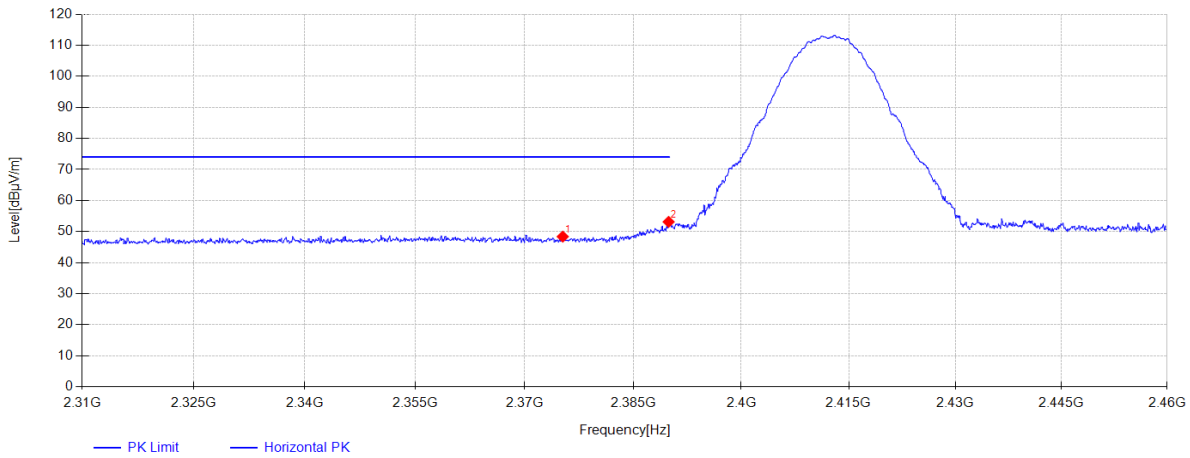
# Restricted bands around fundamental frequency

## 802.11b_Channel 1 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2375.2826 | 39.32 | 27.50 | -18.43 | 48.39 | 74.00 | 25.61 | Horizontal |
| 2 | 2389.915 | 43.86 | 27.44 | -18.15 | 53.15 | 74.00 | 20.85 | Horizontal |

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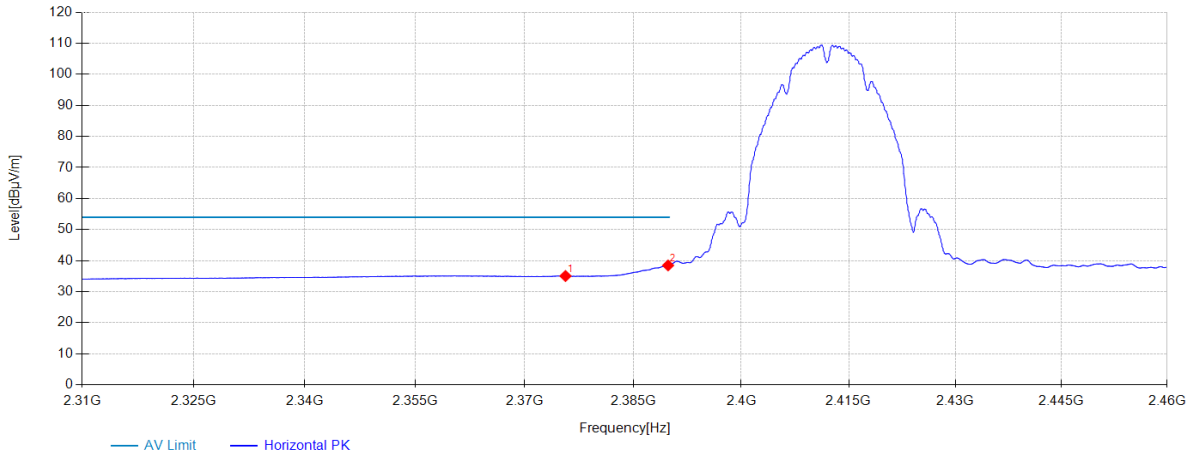
## 802.11b_Channel 1 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2375.6578 | 25.98 | 27.50 | -18.42 | 35.06 | 54.00 | 18.94 | Horizontal |
| 2 | 2389.8399 | 29.18 | 27.44 | -18.15 | 38.47 | 54.00 | 15.53 | Horizontal |

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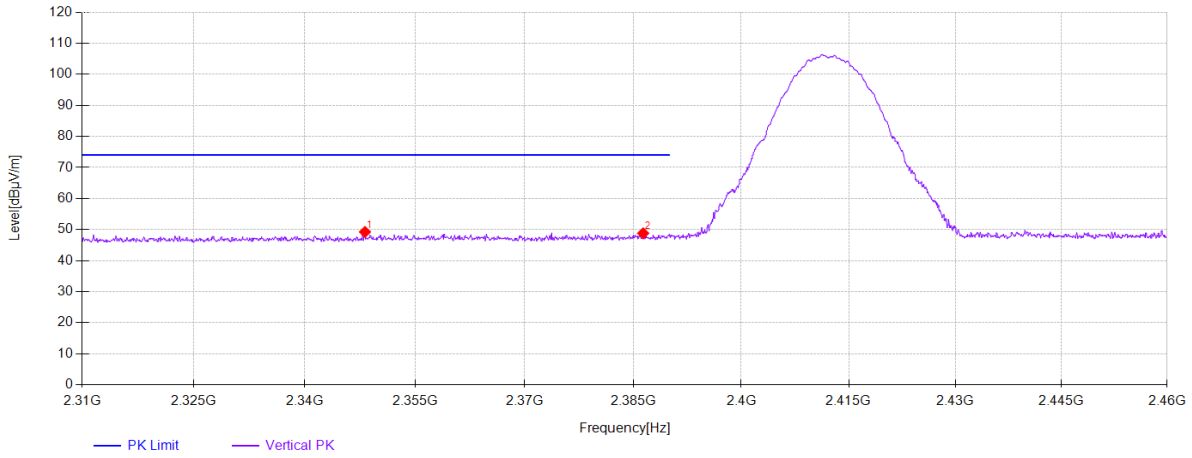
## 802.11b_Channel 1 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2348.1941 | 40.16 | 27.58 | -18.49 | 49.25 | 74.00 | 24.75 | Vertical |
| 2 | 2386.3882 | 39.59 | 27.45 | -18.23 | 48.81 | 74.00 | 25.19 | Vertical |

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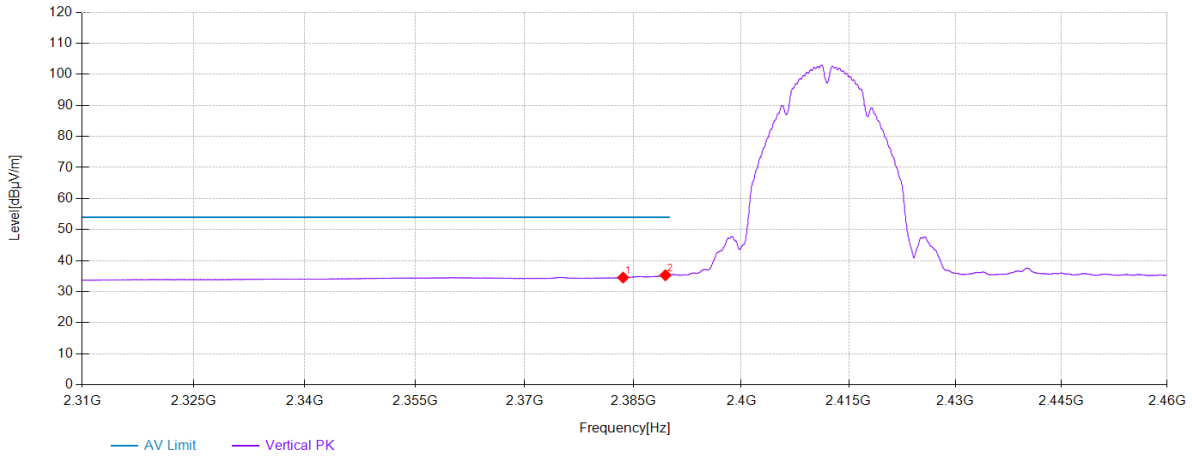


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2383.6118 | 25.38 | 27.47 | -18.29 | 34.56 | 54.00 | 19.44 | Vertical |
| 2 | 2389.4647 | 26.03 | 27.44 | -18.16 | 35.31 | 54.00 | 18.69 | Vertical |

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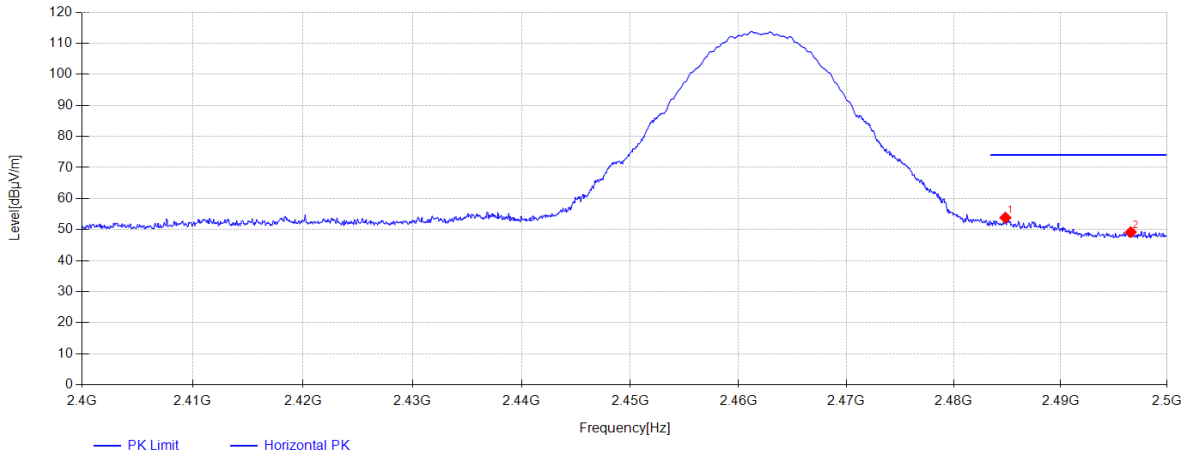
## 802.11b_Channel 11 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.8424 | 44.28 | 27.74 | -18.18 | 53.84 | 74.00 | 20.16 | Horizontal |
| 2 | 2496.5983 | 39.63 | 27.79 | -18.24 | 49.18 | 74.00 | 24.82 | Horizontal |

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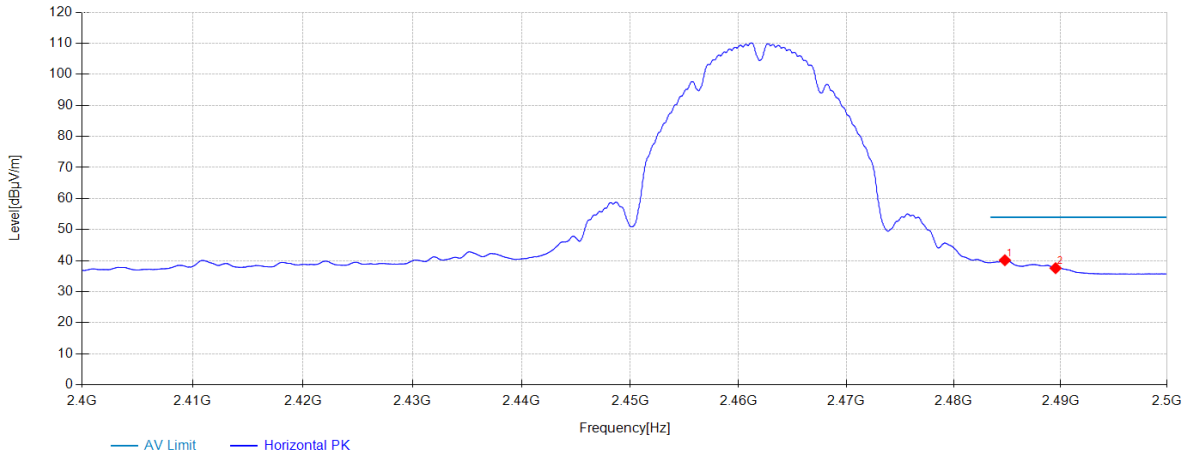
## 802.11b_Channel 11 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.7924 | 30.58 | 27.74 | -18.18 | 40.14 | 54.00 | 13.86 | Horizontal |
| 2 | 2489.5448 | 27.98 | 27.76 | -18.16 | 37.58 | 54.00 | 16.42 | Horizontal |

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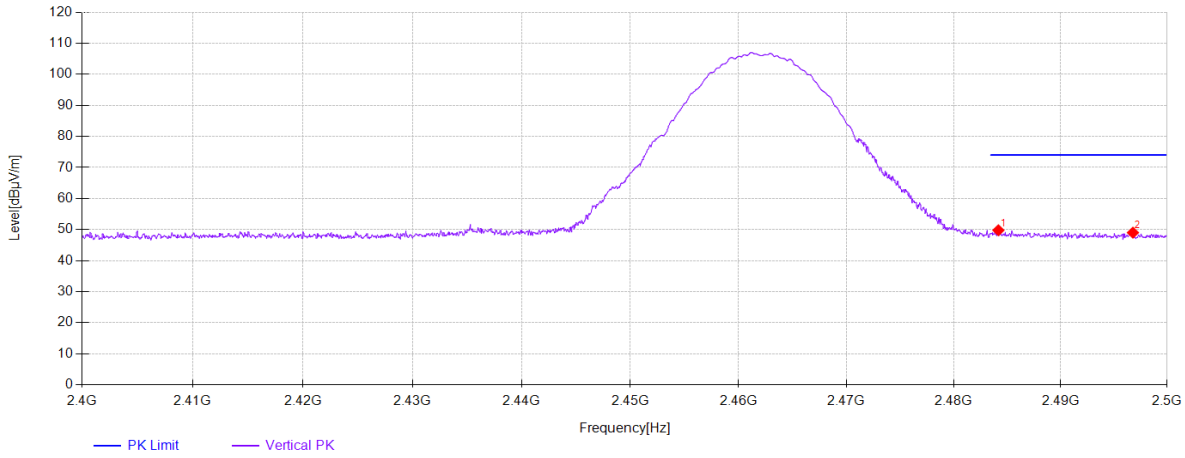
## 802.11b_Channel 11 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.1921 | 40.23 | 27.74 | -18.18 | 49.79 | 74.00 | 24.21 | Vertical |
| 2 | 2496.7984 | 39.47 | 27.79 | -18.24 | 49.02 | 74.00 | 24.98 | Vertical |

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t (86-29) 6282 7885 www.sgsgroup.com.cn
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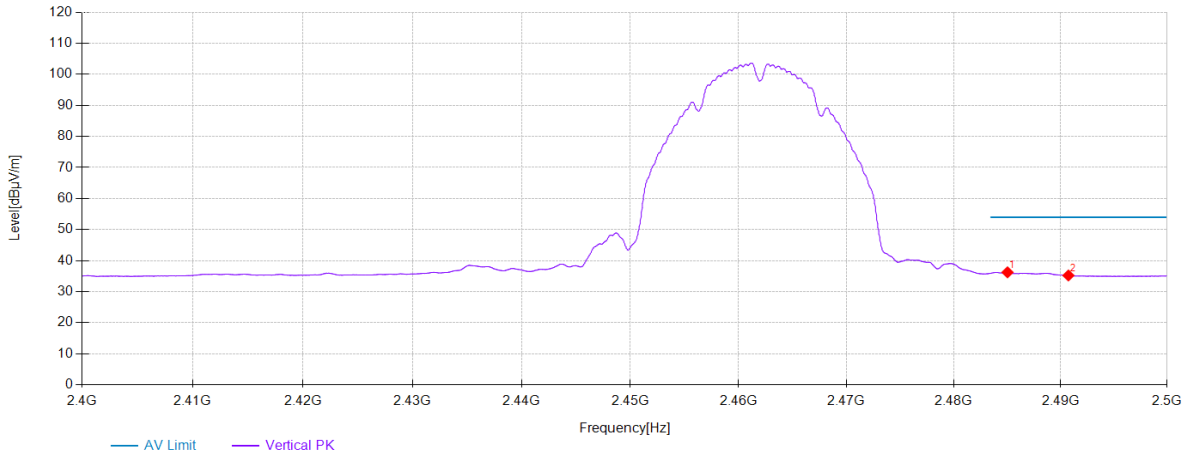
## 802.11b_Channel 11 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2485.0425 | 26.68 | 27.74 | -18.18 | 36.24 | 54.00 | 17.76 | Vertical |
| 2 | 2490.7454 | 25.65 | 27.76 | -18.17 | 35.24 | 54.00 | 18.76 | Vertical |

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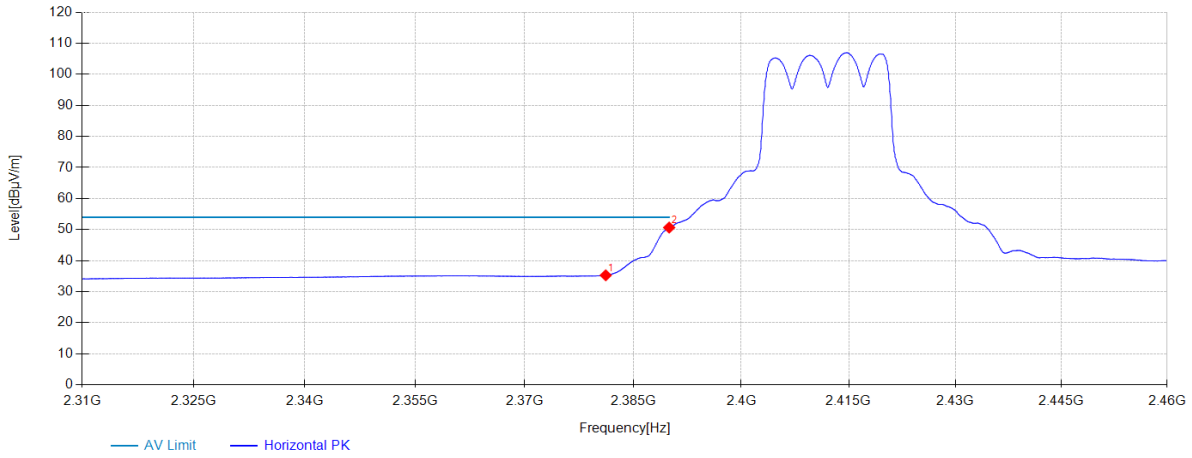
## 802.11g_Channel 1 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2381.2106 | 26.15 | 27.48 | -18.34 | 35.29 | 54.00 | 18.71 | Horizontal |
| 2 | 2389.99 | 41.36 | 27.44 | -18.15 | 50.65 | 54.00 | 3.35 | Horizontal |

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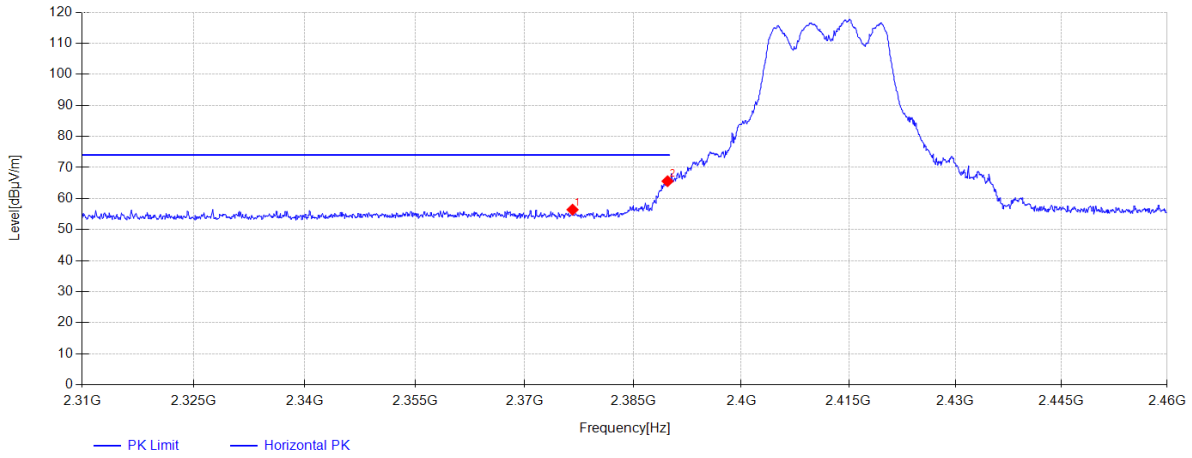
## 802.11g_Channel 1 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2376.6333 | 47.34 | 27.49 | -18.41 | 56.42 | 74.00 | 17.58 | Horizontal |
| 2 | 2389.7649 | 56.31 | 27.44 | -18.16 | 65.59 | 74.00 | 8.41 | Horizontal |

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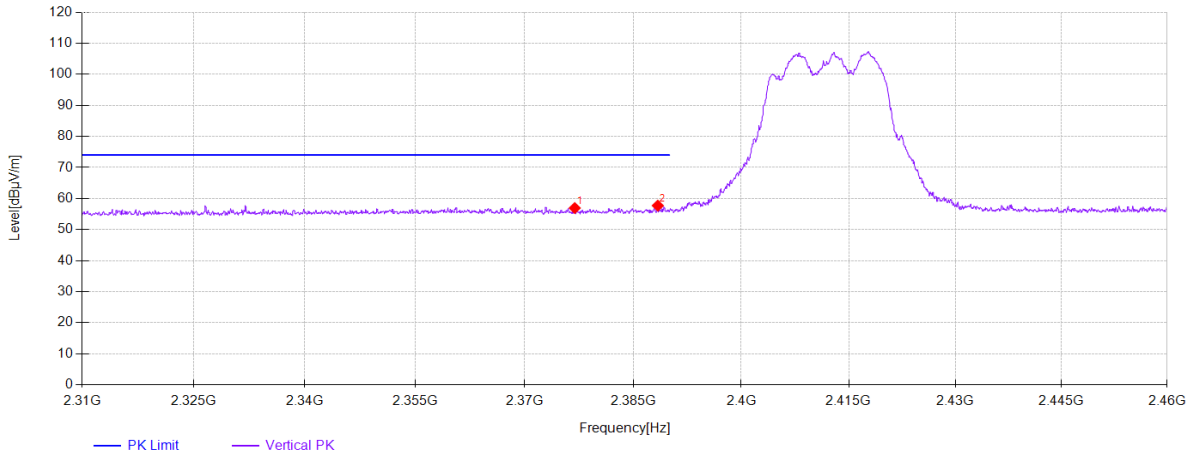


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2376.9335 | 47.86 | 27.49 | -18.41 | 56.94 | 74.00 | 17.06 | Vertical |
| 2 | 2388.4142 | 48.45 | 27.45 | -18.18 | 57.72 | 74.00 | 16.28 | Vertical |

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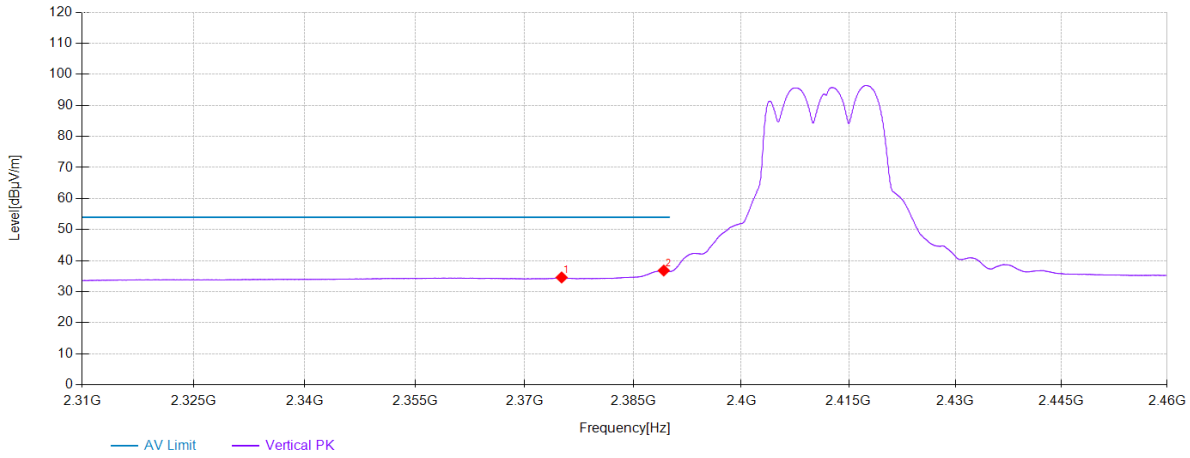
## 802.11g_Channel 1 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2375.1326 | 25.52 | 27.50 | -18.43 | 34.59 | 54.00 | 19.41 | Vertical |
| 2 | 2389.2396 | 27.55 | 27.44 | -18.17 | 36.82 | 54.00 | 17.18 | Vertical |

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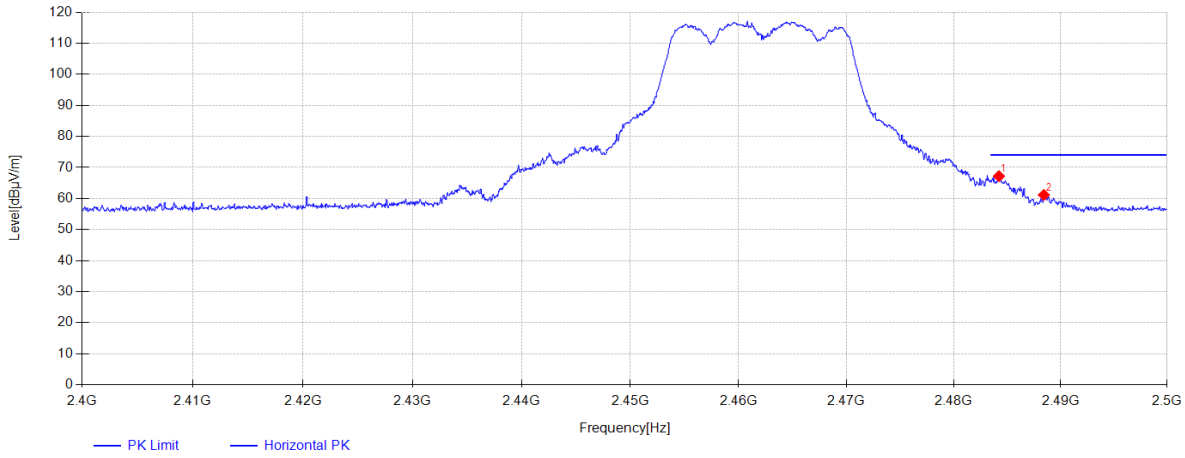
## 802.11g_Channel 11 CDD




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.2421 | 57.65 | 27.74 | -18.18 | 67.21 | 74.00 | 6.79 | Horizontal |
| 2 | 2488.4442 | 51.57 | 27.75 | -18.17 | 61.15 | 74.00 | 12.85 | Horizontal |

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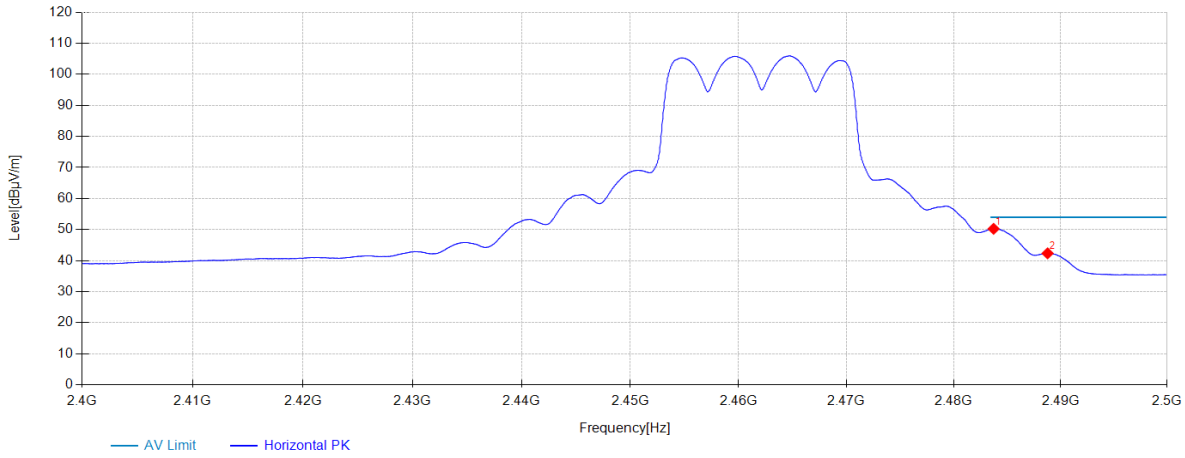


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.7419 | 40.72 | 27.73 | -18.19 | 50.26 | 54.00 | 3.74 | Horizontal |
| 2 | 2488.7944 | 32.76 | 27.76 | -18.16 | 42.36 | 54.00 | 11.64 | Horizontal |

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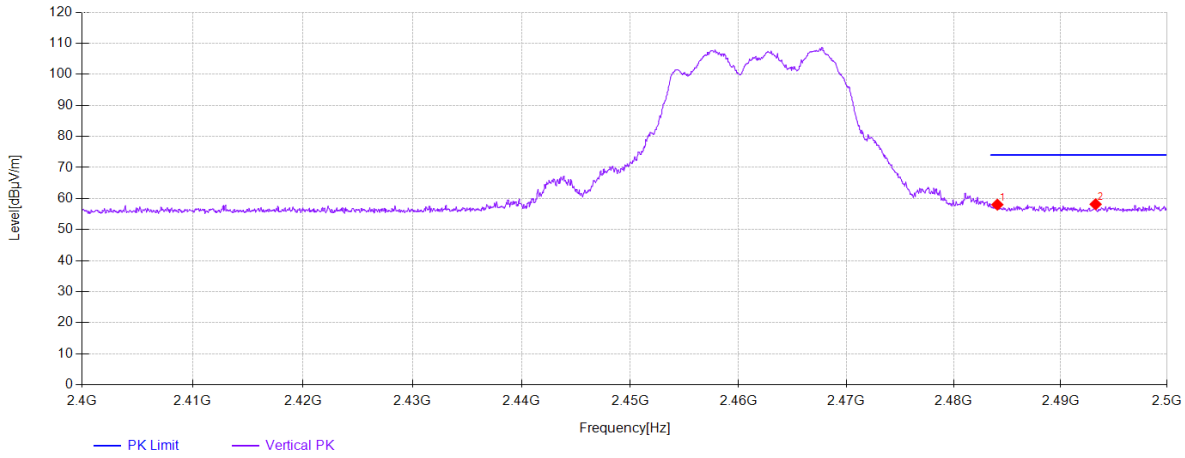


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.092 | 48.46 | 27.74 | -18.18 | 58.02 | 74.00 | 15.98 | Vertical |
| 2 | 2493.2966 | 48.59 | 27.77 | -18.20 | 58.16 | 74.00 | 15.84 | Vertical |

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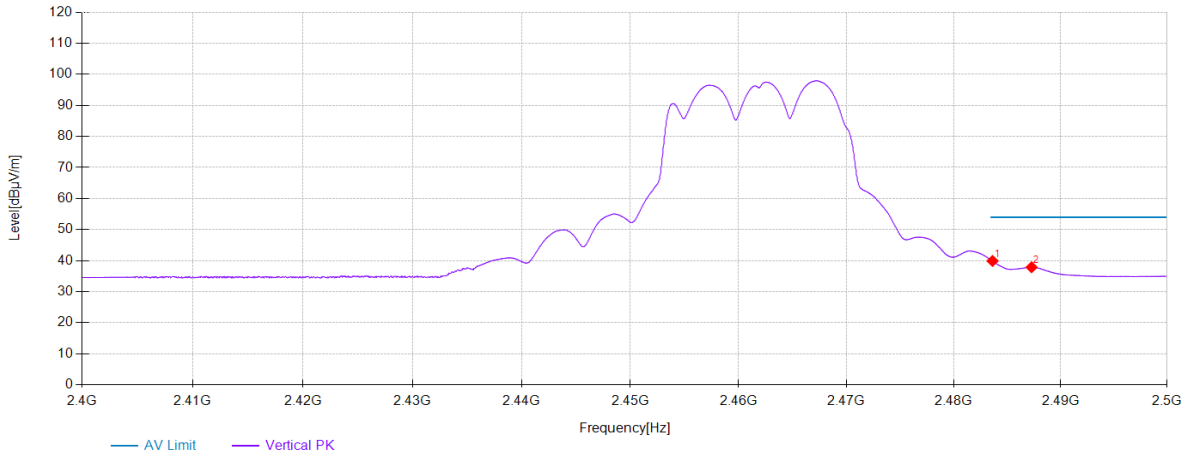


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.6418 | 30.37 | 27.73 | -18.19 | 39.91 | 54.00 | 14.09 | Vertical |
| 2 | 2487.2936 | 28.30 | 27.75 | -18.17 | 37.88 | 54.00 | 16.12 | Vertical |

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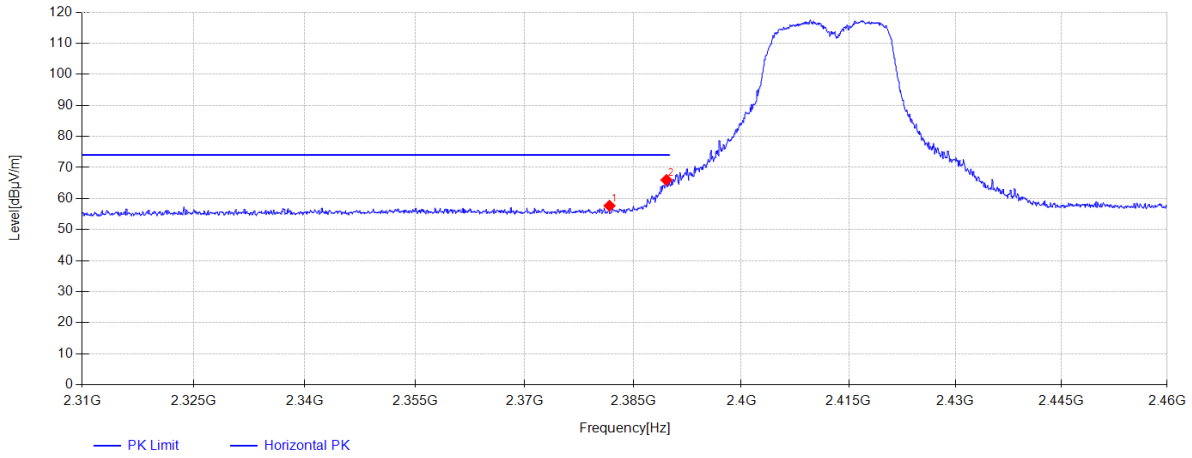
## 802.11n20_Channel 1 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2381.7359 | 48.54 | 27.47 | -18.33 | 57.68 | 74.00 | 16.32 | Horizontal |
| 2 | 2389.6148 | 56.70 | 27.44 | -18.16 | 65.98 | 74.00 | 8.02 | Horizontal |

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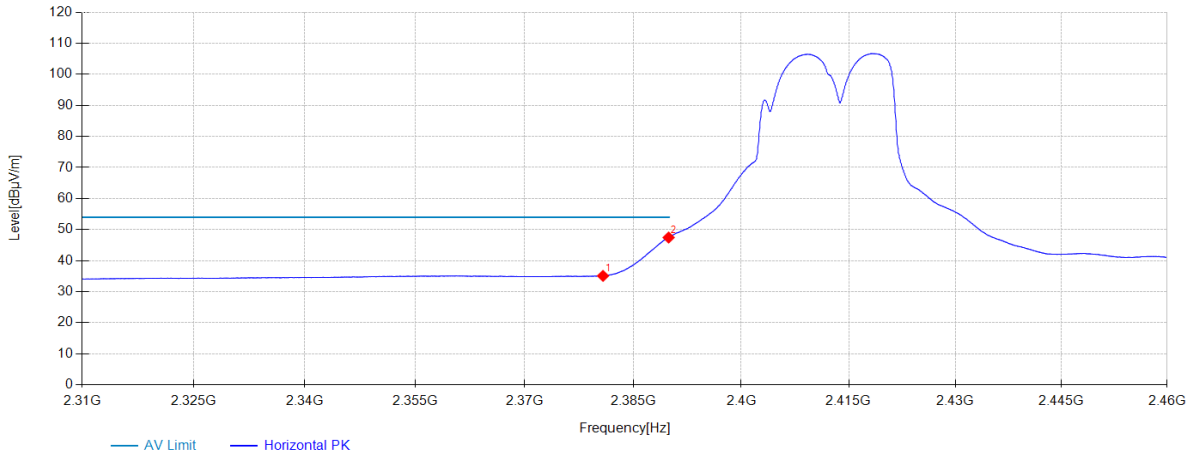
## 802.11n20_Channel 1 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2380.8354 | 25.97 | 27.48 | -18.35 | 35.10 | 54.00 | 18.90 | Horizontal |
| 2 | 2389.915 | 38.16 | 27.44 | -18.15 | 47.45 | 54.00 | 6.55 | Horizontal |

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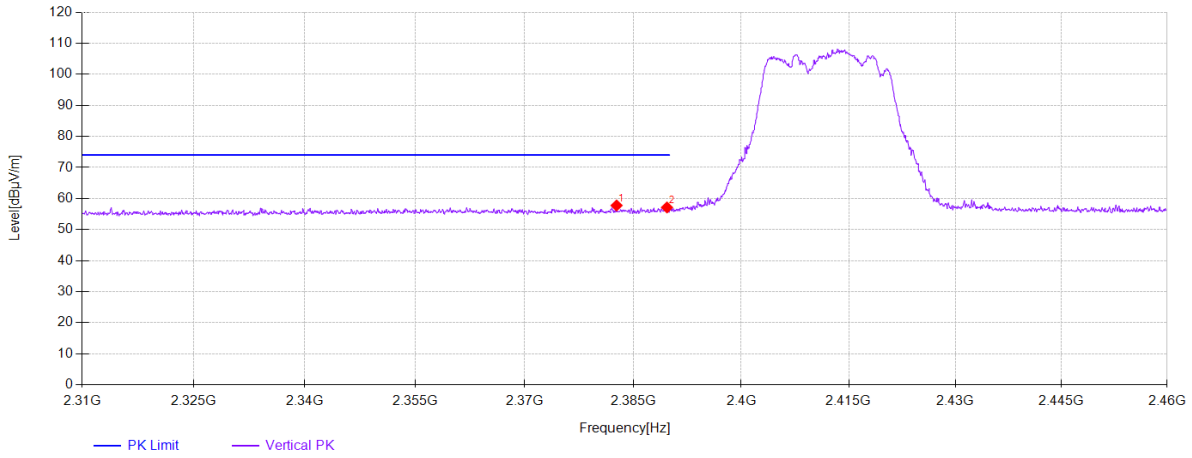


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2382.7114 | 48.61 | 27.47 | -18.31 | 57.77 | 74.00 | 16.23 | Vertical |
| 2 | 2389.6898 | 47.85 | 27.44 | -18.16 | 57.13 | 74.00 | 16.87 | Vertical |

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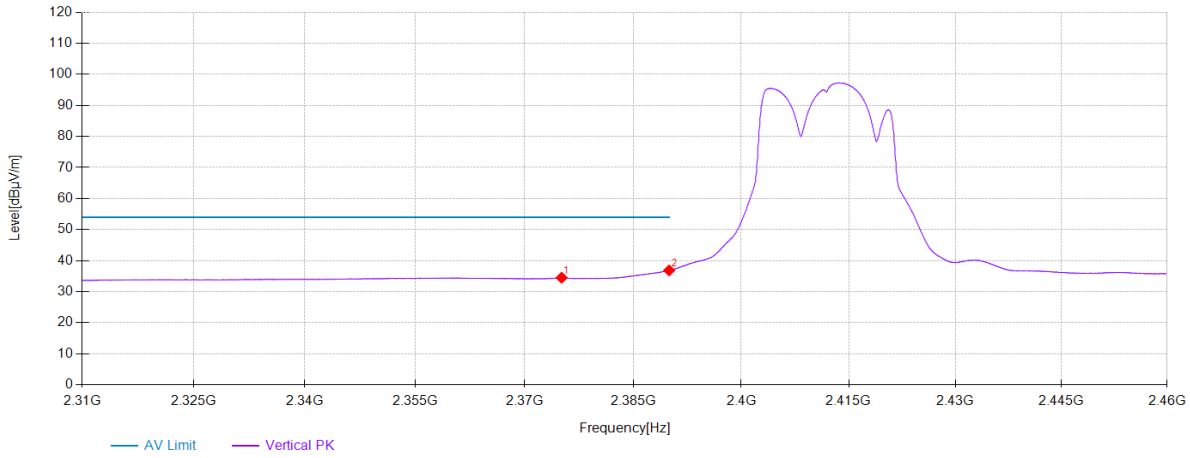


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2375.1326 | 25.45 | 27.50 | -18.43 | 34.52 | 54.00 | 19.48 | Vertical |
| 2 | 2389.99 | 27.57 | 27.44 | -18.15 | 36.86 | 54.00 | 17.14 | Vertical |

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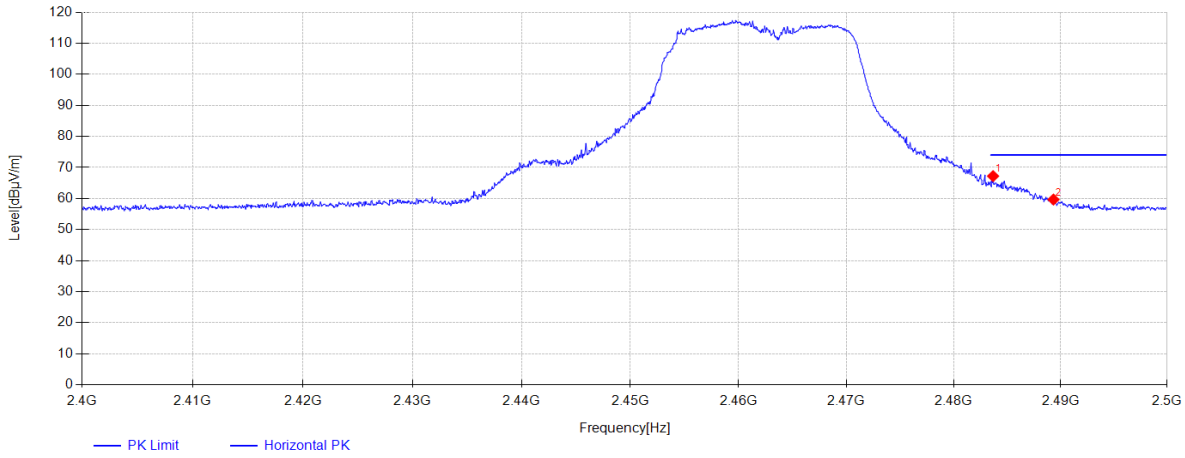
## 802.11n20_Channel 11 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.6918 | 57.68 | 27.73 | -18.19 | 67.22 | 74.00 | 6.78 | Horizontal |
| 2 | 2489.3447 | 50.08 | 27.76 | -18.16 | 59.68 | 74.00 | 14.32 | Horizontal |

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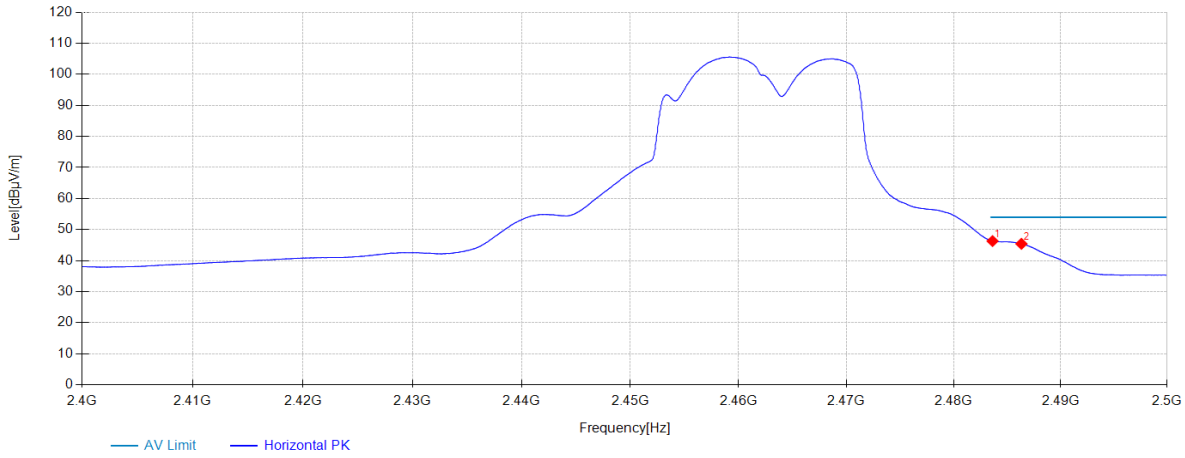


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.6418 | 36.77 | 27.73 | -18.19 | 46.31 | 54.00 | 7.69 | Horizontal |
| 2 | 2486.3432 | 35.85 | 27.75 | -18.17 | 45.43 | 54.00 | 8.57 | Horizontal |

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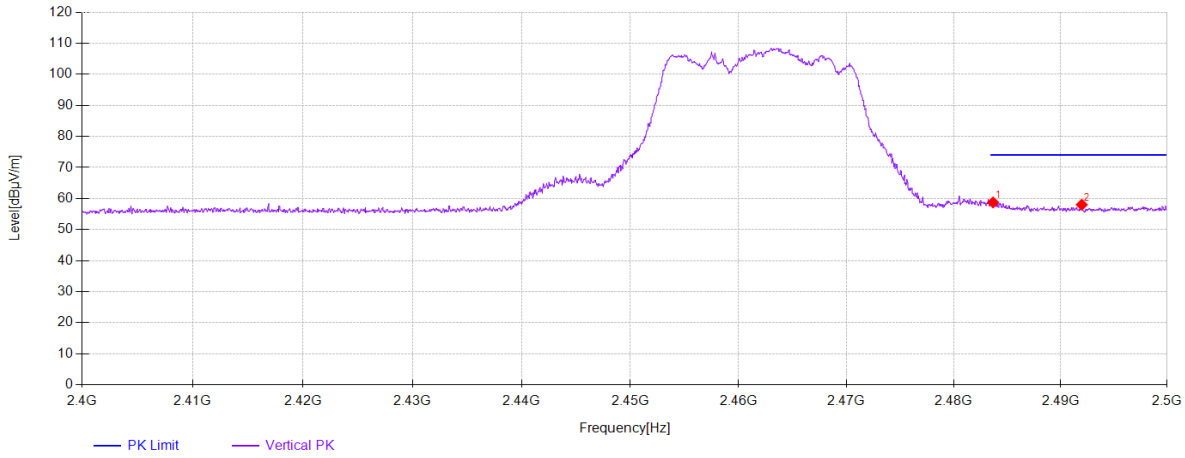


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.6918 | 49.21 | 27.73 | -18.19 | 58.75 | 74.00 | 15.25 | Vertical |
| 2 | 2491.996 | 48.42 | 27.77 | -18.18 | 58.01 | 74.00 | 15.99 | Vertical |

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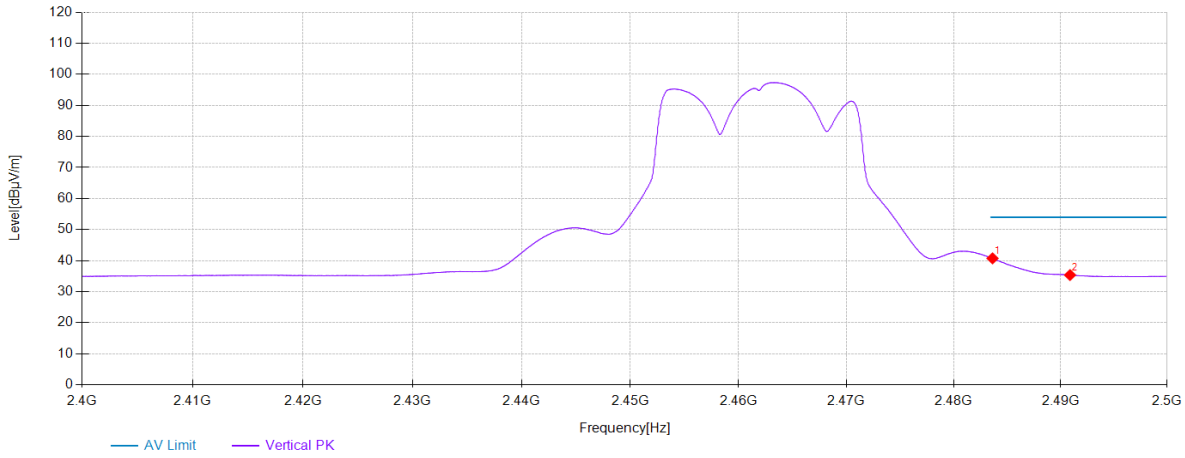


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.6418 | 31.20 | 27.73 | -18.19 | 40.74 | 54.00 | 13.26 | Vertical |
| 2 | 2490.8954 | 25.78 | 27.76 | -18.17 | 35.37 | 54.00 | 18.63 | Vertical |

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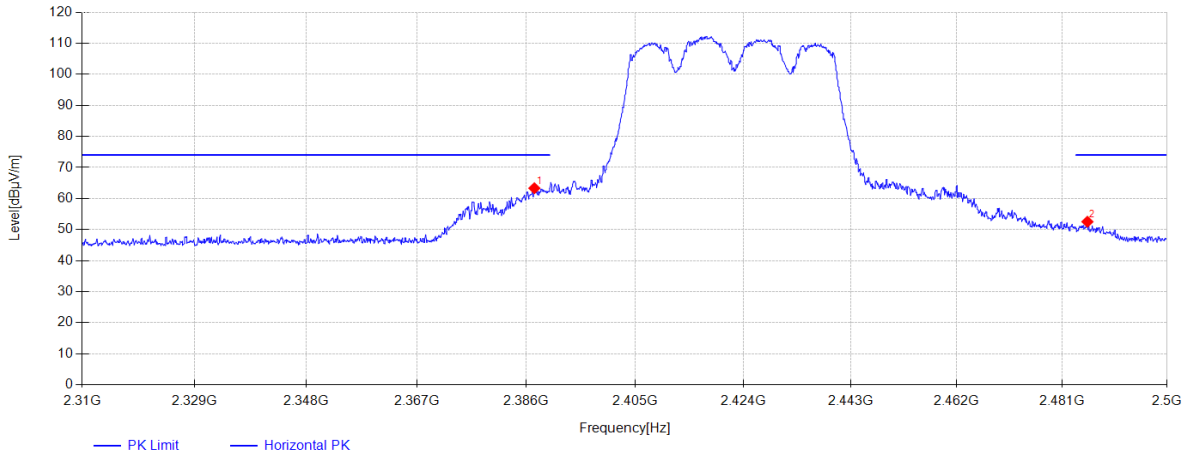
## 802.11n40_Channel 3 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2387.3687 | 54.08 | 27.45 | -18.21 | 63.32 | 74.00 | 10.68 | Horizontal |
| 2 | 2485.5528 | 42.97 | 27.74 | -18.18 | 52.53 | 74.00 | 21.47 | Horizontal |

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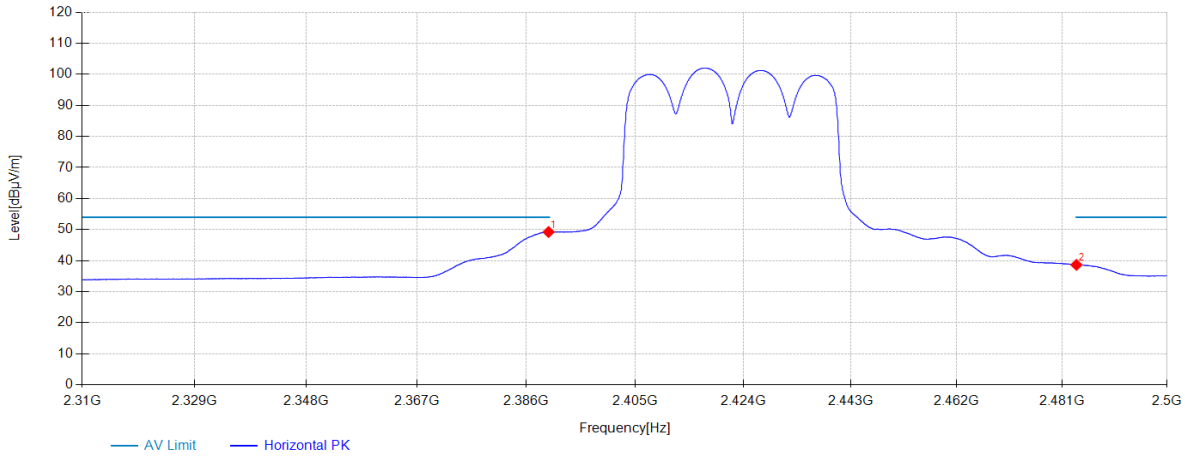


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.8399 | 39.93 | 27.44 | -18.15 | 49.22 | 54.00 | 4.78 | Horizontal |
| 2 | 2483.5568 | 29.11 | 27.73 | -18.19 | 38.65 | 54.00 | 15.35 | Horizontal |

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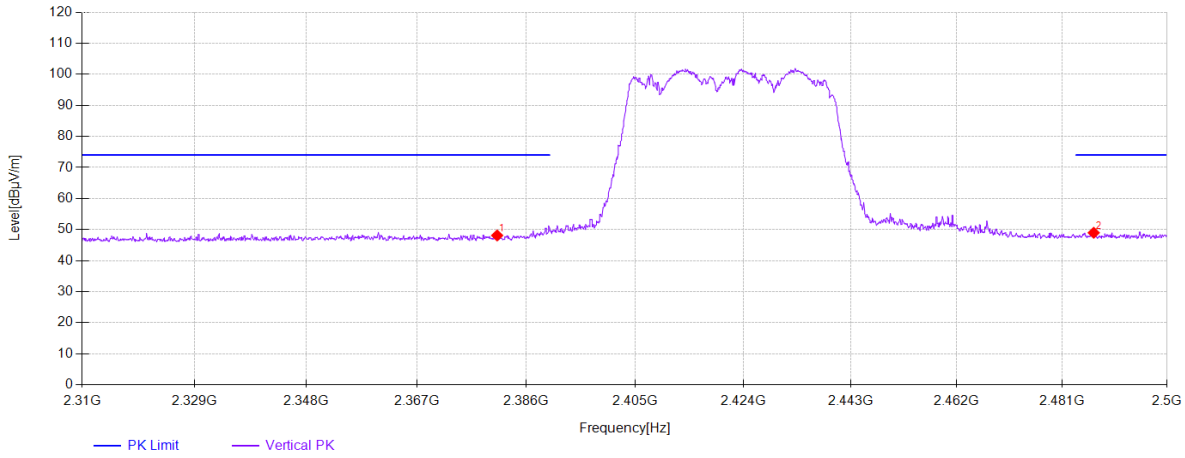


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2380.9055 | 38.98 | 27.48 | -18.35 | 48.11 | 74.00 | 25.89 | Vertical |
| 2 | 2486.6933 | 39.41 | 27.75 | -18.17 | 48.99 | 74.00 | 25.01 | Vertical |

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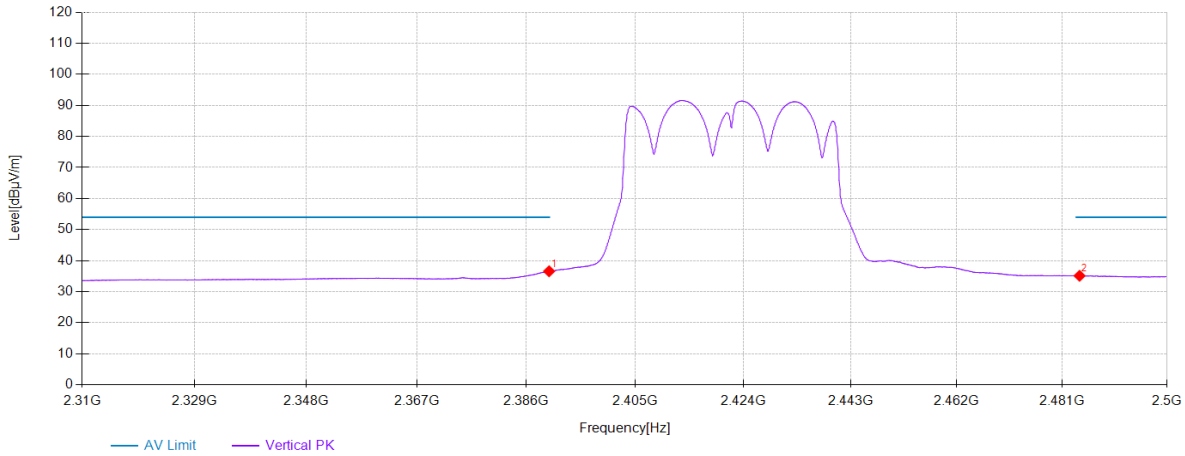


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 27.30 | 27.44 | -18.15 | 36.59 | 54.00 | 17.41 | Vertical |
| 2 | 2484.1271 | 25.57 | 27.74 | -18.18 | 35.13 | 54.00 | 18.87 | Vertical |

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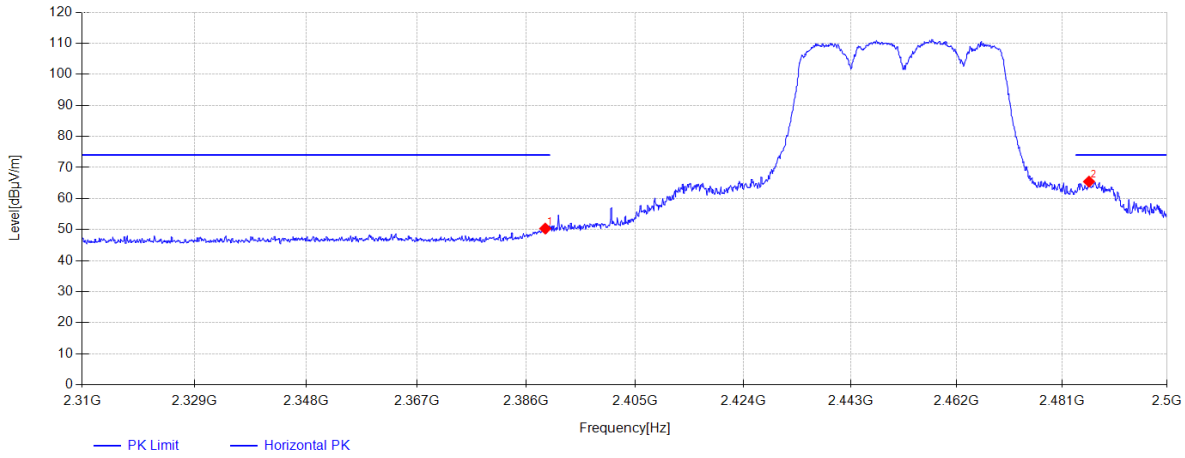
## 802.11n40_Channel 9 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.2696 | 41.06 | 27.44 | -18.17 | 50.33 | 74.00 | 23.67 | Horizontal |
| 2 | 2485.8379 | 55.89 | 27.74 | -18.18 | 65.45 | 74.00 | 8.55 | Horizontal |

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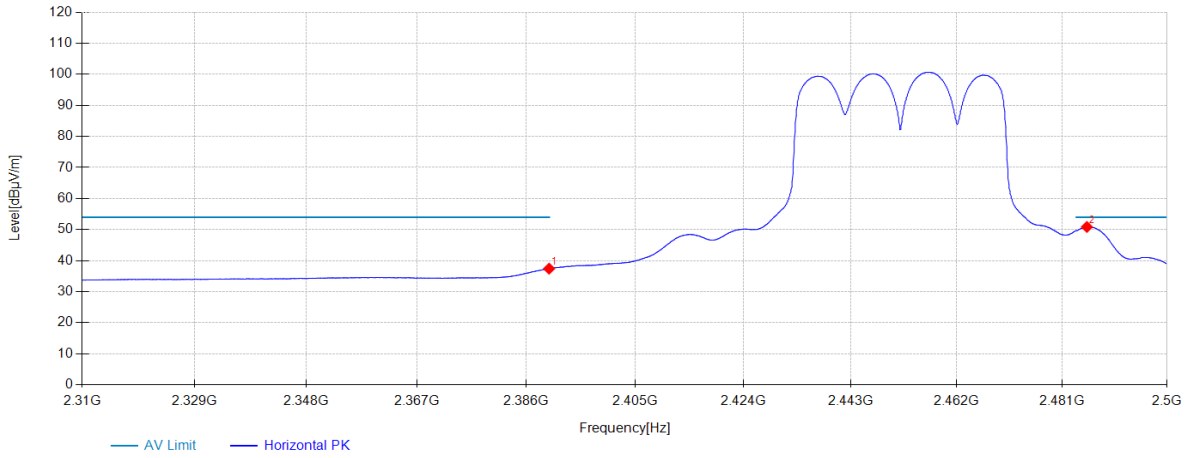


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 28.14 | 27.44 | -18.15 | 37.43 | 54.00 | 16.57 | Horizontal |
| 2 | 2485.4577 | 41.30 | 27.74 | -18.18 | 50.86 | 54.00 | 3.14 | Horizontal |

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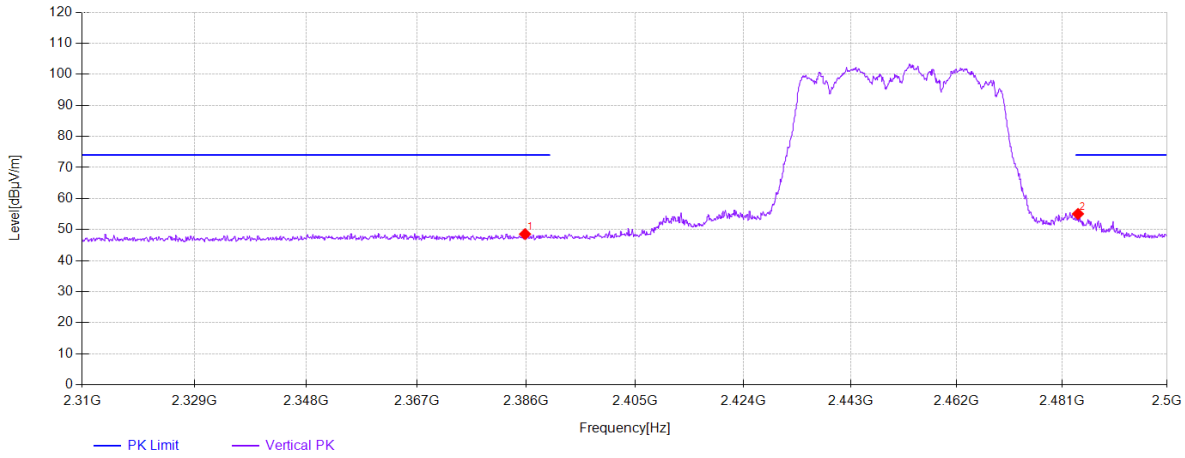


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2385.7529 | 39.34 | 27.46 | -18.24 | 48.56 | 74.00 | 25.44 | Vertical |
| 2 | 2483.8419 | 45.50 | 27.74 | -18.18 | 55.06 | 74.00 | 18.94 | Vertical |

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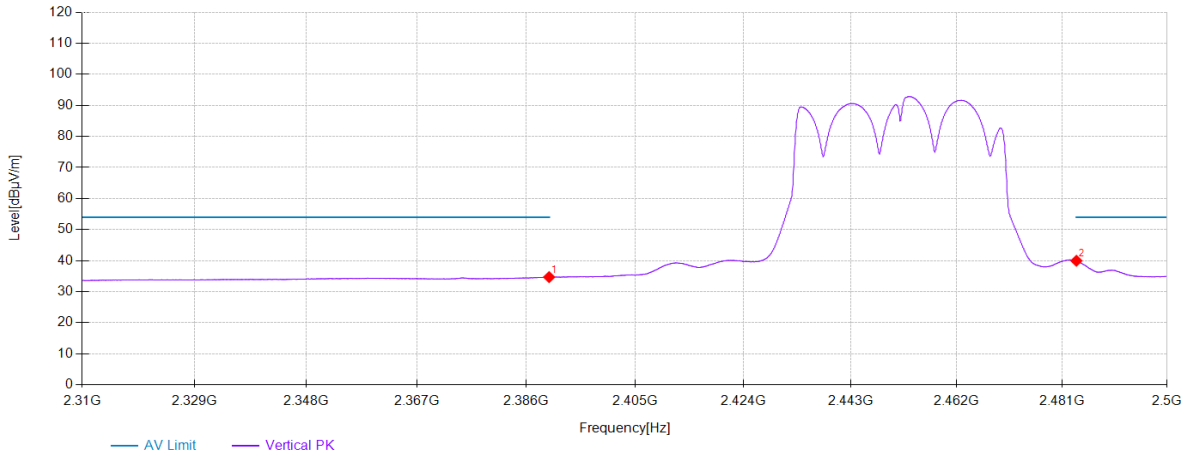


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 25.42 | 27.44 | -18.15 | 34.71 | 54.00 | 19.29 | Vertical |
| 2 | 2483.5568 | 30.43 | 27.73 | -18.19 | 39.97 | 54.00 | 14.03 | Vertical |

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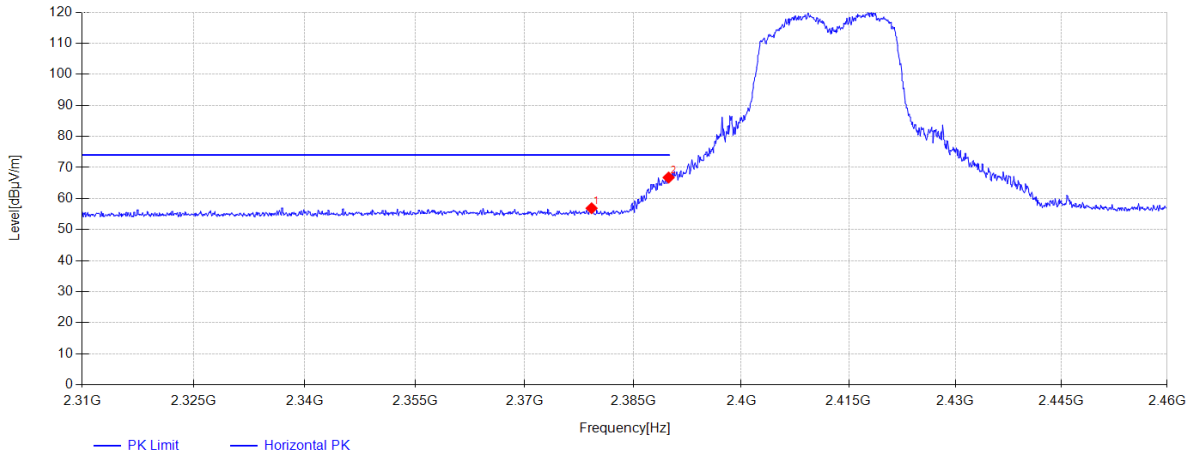
## 802.11ax20_Channel 1 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2379.2596 | 47.77 | 27.48 | -18.38 | 56.87 | 74.00 | 17.13 | Horizontal |
| 2 | 2389.915 | 57.48 | 27.44 | -18.15 | 66.77 | 74.00 | 7.23 | Horizontal |

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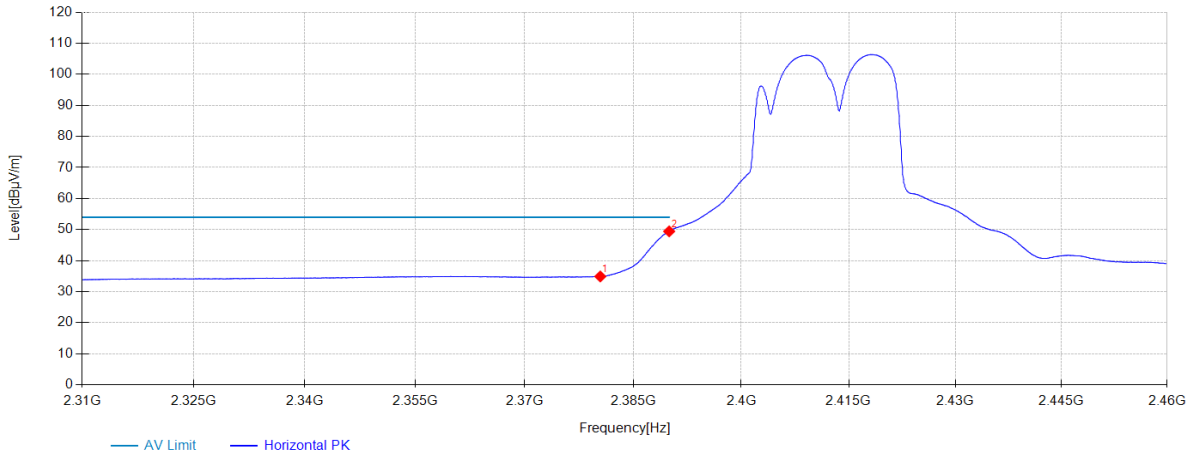


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2380.4602 | 25.79 | 27.48 | -18.36 | 34.91 | 54.00 | 19.09 | Horizontal |
| 2 | 2389.99 | 40.15 | 27.44 | -18.15 | 49.44 | 54.00 | 4.56 | Horizontal |

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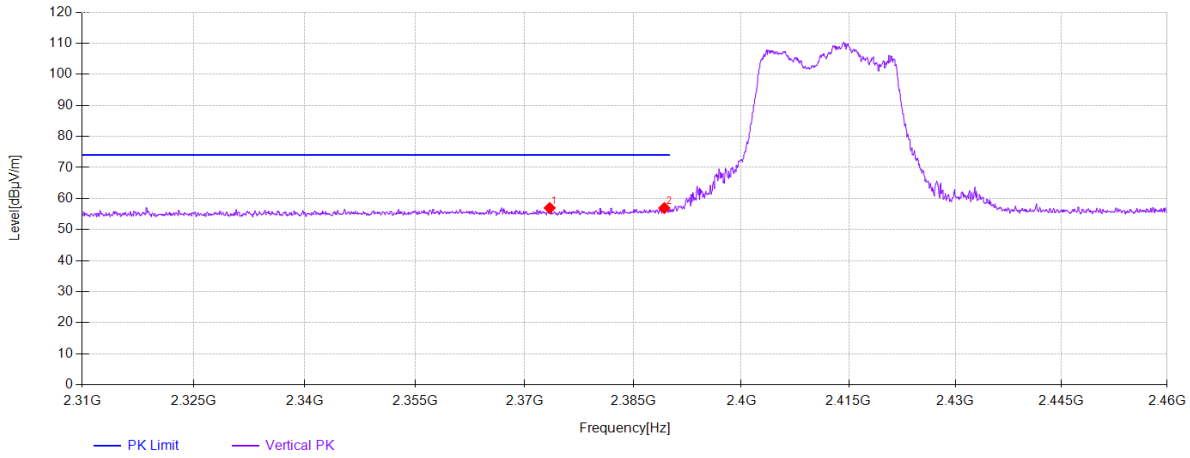


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | AF[dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1 | 2373.4817 | 47.91 | 27.51 | -18.45 | 56.97 | 74.00 | 17.03 | Vertical |
| 2 | 2389.3147 | 47.67 | 27.44 | -18.17 | 56.94 | 74.00 | 17.06 | Vertical |

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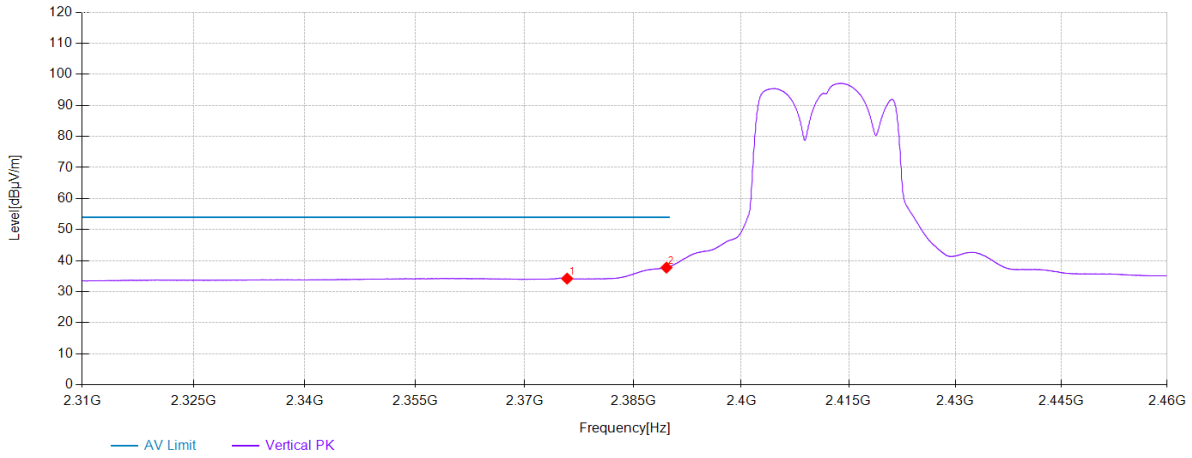


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2375.8829 | 25.14 | 27.50 | -18.42 | 34.22 | 54.00 | 19.78 | Vertical |
| 2 | 2389.6148 | 28.48 | 27.44 | -18.16 | 37.76 | 54.00 | 16.24 | Vertical |

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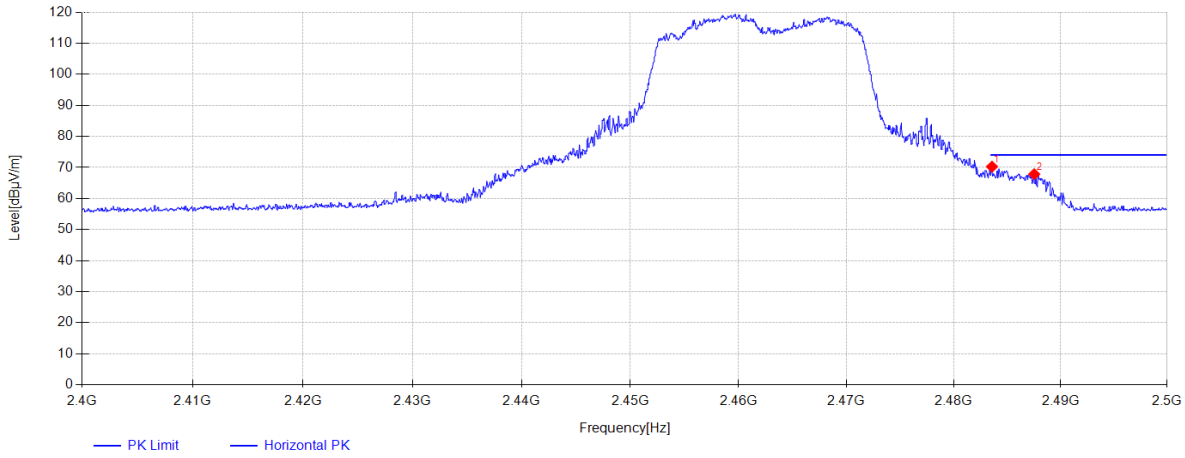


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.5918 | 60.73 | 27.73 | -18.19 | 70.27 | 74.00 | 3.73 | Horizontal |
| 2 | 2487.5438 | 58.27 | 27.75 | -18.17 | 67.85 | 74.00 | 6.15 | Horizontal |

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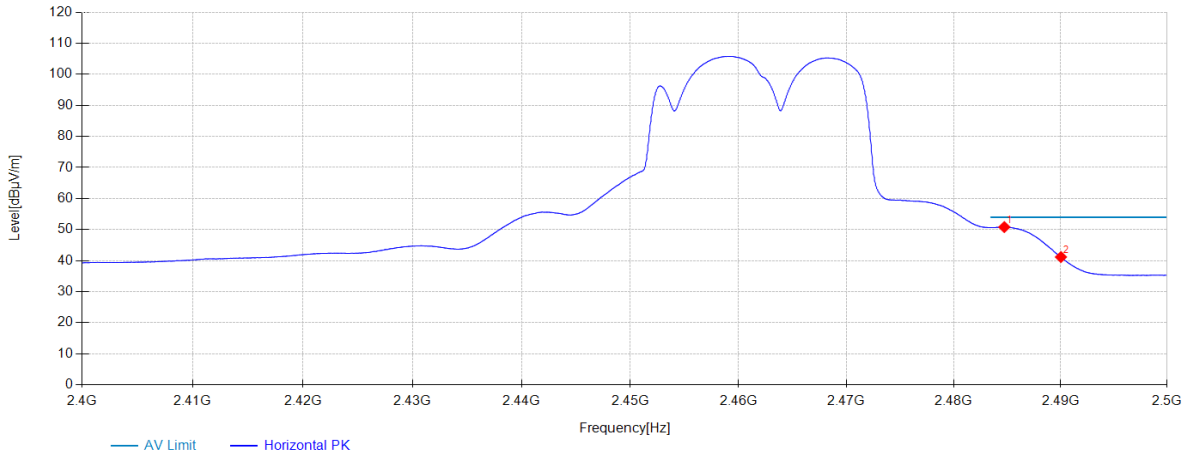


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.7424 | 41.26 | 27.74 | -18.18 | 50.82 | 54.00 | 3.18 | Horizontal |
| 2 | 2490.045 | 31.57 | 27.76 | -18.16 | 41.17 | 54.00 | 12.83 | Horizontal |

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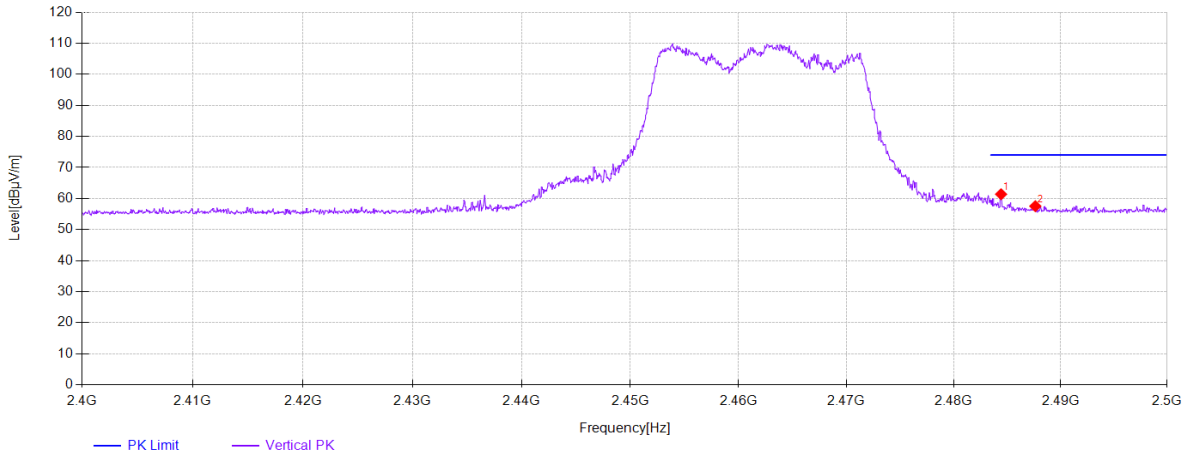
## 802.11ax20_Channel 11 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.4422 | 51.83 | 27.74 | -18.18 | 61.39 | 74.00 | 12.61 | Vertical |
| 2 | 2487.6438 | 47.97 | 27.75 | -18.17 | 57.55 | 74.00 | 16.45 | Vertical |

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t (86-29) 6282 7885 sgs.china@sgs.com

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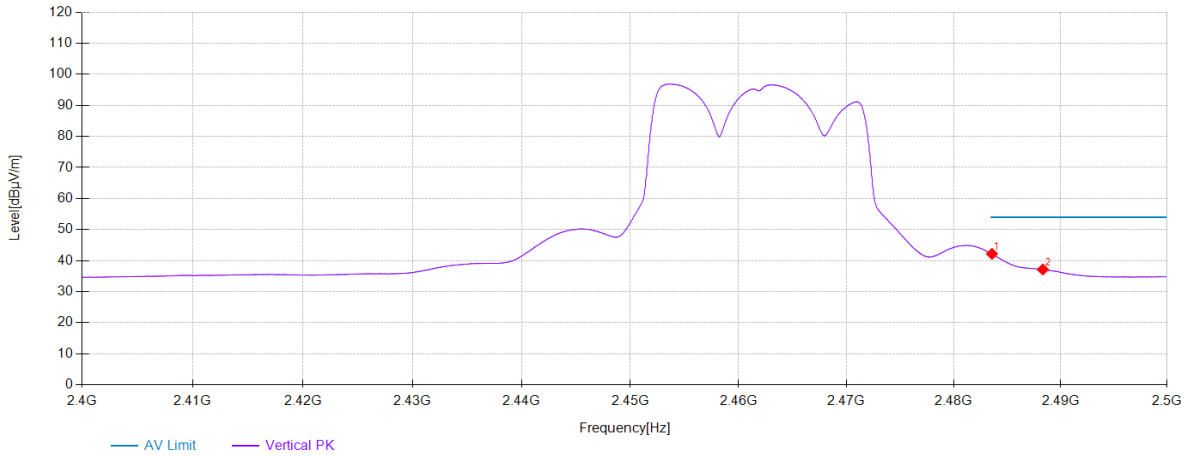


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.5918 | 32.66 | 27.73 | -18.19 | 42.20 | 54.00 | 11.80 | Vertical |
| 2 | 2488.3442 | 27.58 | 27.75 | -18.17 | 37.16 | 54.00 | 16.84 | Vertical |

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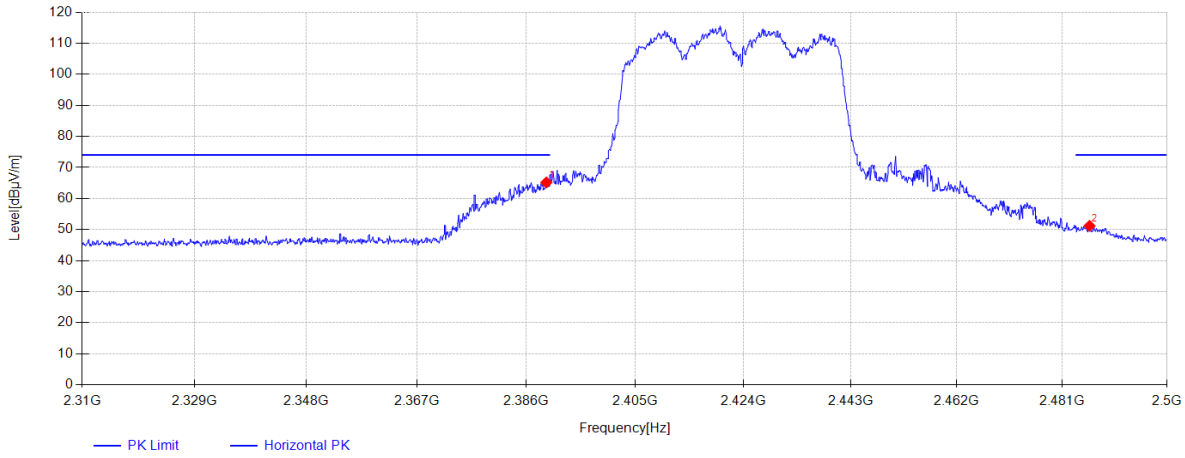
## 802.11ax40_Channel 3 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.4597 | 55.90 | 27.44 | -18.16 | 65.18 | 74.00 | 8.82 | Horizontal |
| 2 | 2485.933 | 41.65 | 27.74 | -18.18 | 51.21 | 74.00 | 22.79 | Horizontal |

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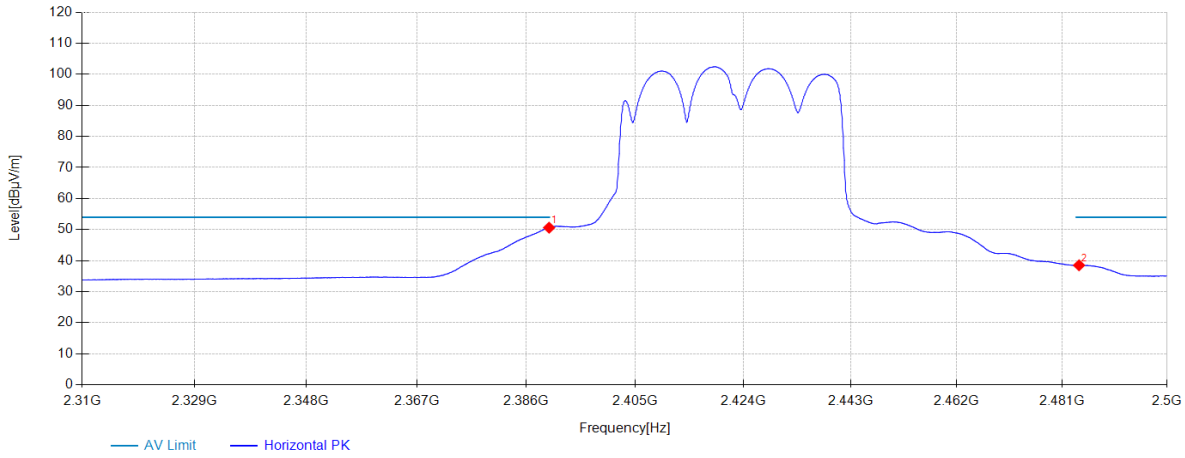


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 41.32 | 27.44 | -18.15 | 50.61 | 54.00 | 3.39 | Horizontal |
| 2 | 2484.032 | 28.95 | 27.74 | -18.18 | 38.51 | 54.00 | 15.49 | Horizontal |

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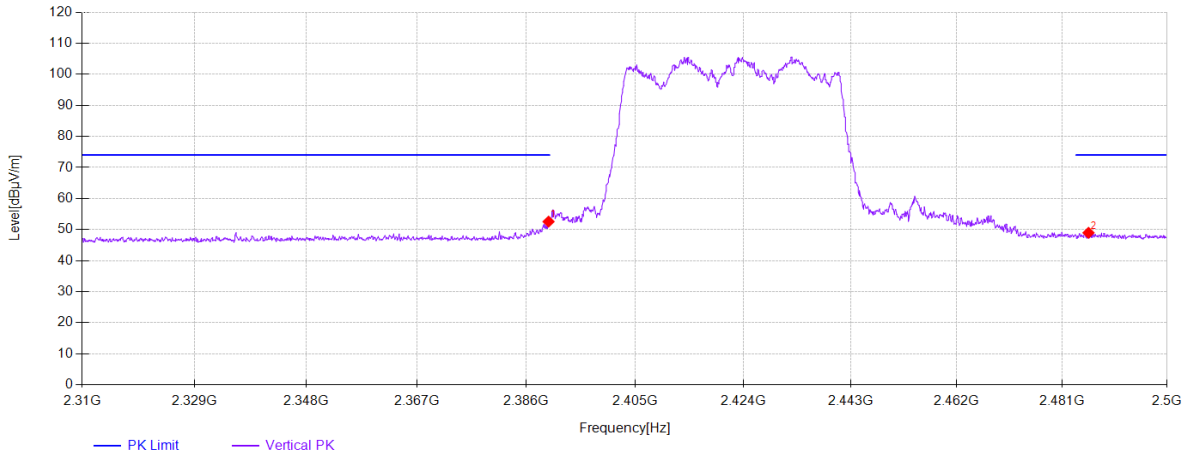


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.8399 | 43.28 | 27.44 | -18.15 | 52.57 | 74.00 | 21.43 | Vertical |
| 2 | 2485.7429 | 39.41 | 27.74 | -18.18 | 48.97 | 74.00 | 25.03 | Vertical |

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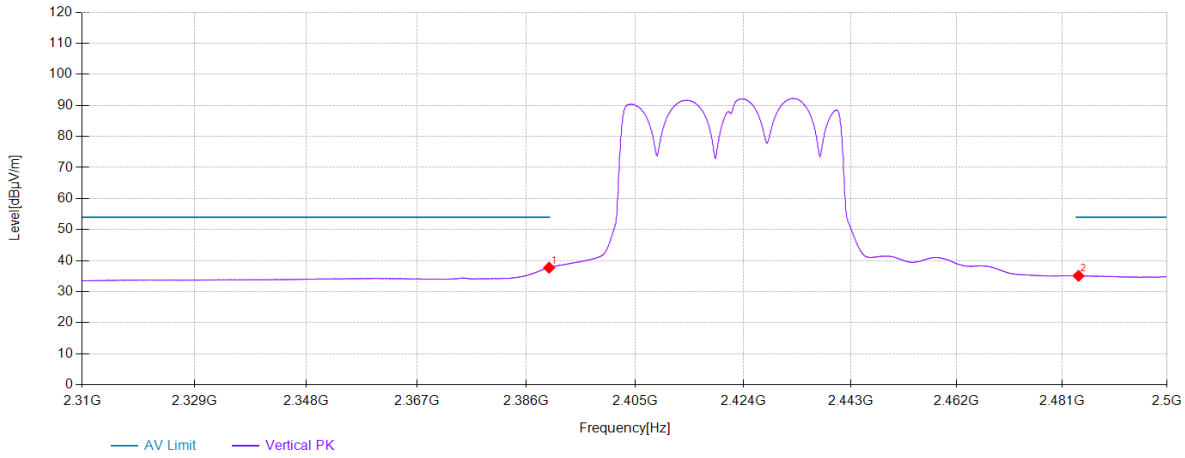


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | AF[dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 28.44 | 27.44 | -18.15 | 37.73 | 54.00 | 16.27 | Vertical |
| 2 | 2483.937 | 25.56 | 27.74 | -18.18 | 35.12 | 54.00 | 18.88 | Vertical |

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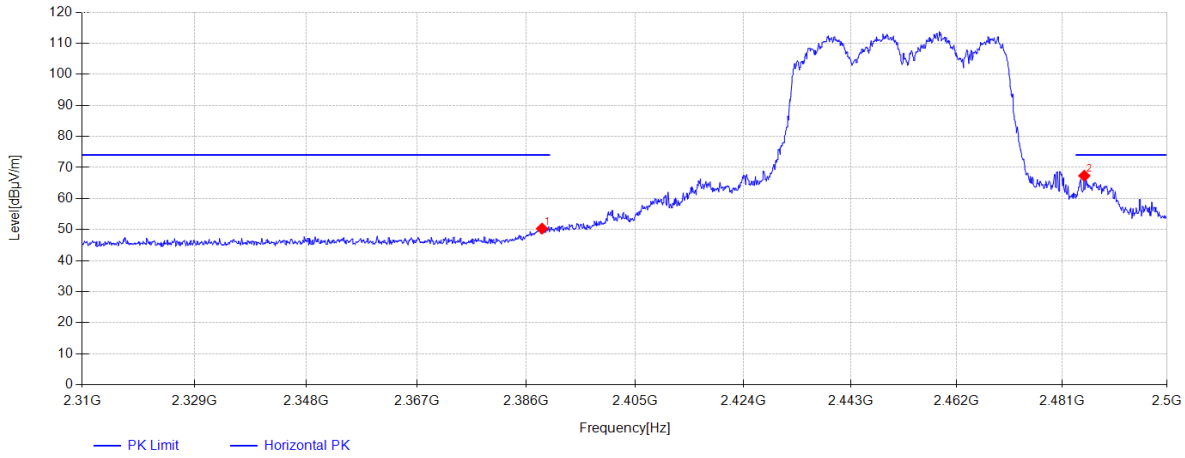
## 802.11ax40_Channel 9 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2388.6994 | 41.05 | 27.45 | -18.18 | 50.32 | 74.00 | 23.68 | Horizontal |
| 2 | 2484.9825 | 57.78 | 27.74 | -18.18 | 67.34 | 74.00 | 6.66 | Horizontal |

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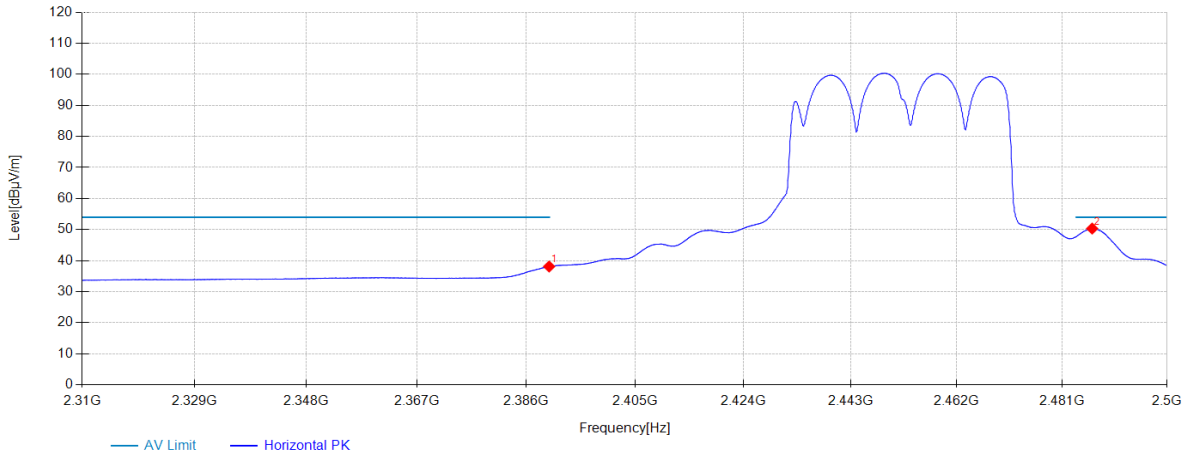


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 28.83 | 27.44 | -18.15 | 38.12 | 54.00 | 15.88 | Horizontal |
| 2 | 2486.4082 | 40.75 | 27.75 | -18.17 | 50.33 | 54.00 | 3.67 | Horizontal |

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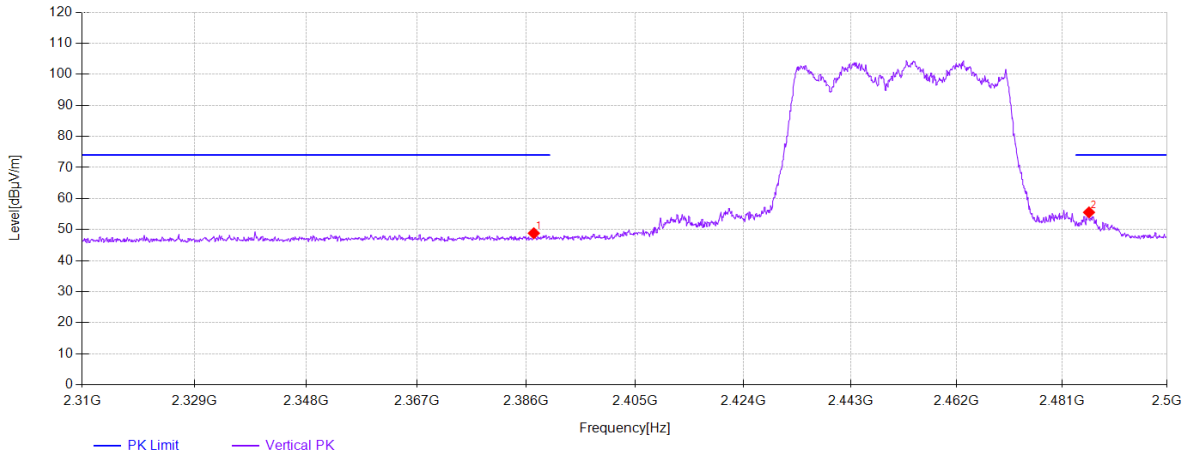


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | AF[dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1 | 2387.2736 | 39.60 | 27.45 | -18.21 | 48.84 | 74.00 | 25.16 | Vertical |
| 2 | 2485.8379 | 46.00 | 27.74 | -18.18 | 55.56 | 74.00 | 18.44 | Vertical |

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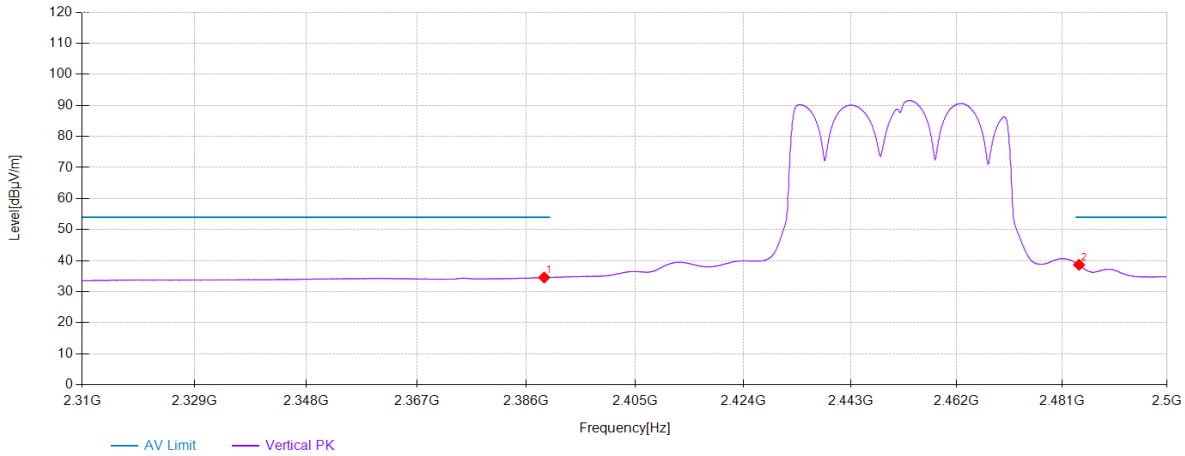


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
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| 1 | 2389.0795 | 25.30 | 27.44 | -18.17 | 34.57 | 54.00 | 19.43 | Vertical |
| 2 | 2484.032 | 29.10 | 27.74 | -18.18 | 38.66 | 54.00 | 15.34 | Vertical |

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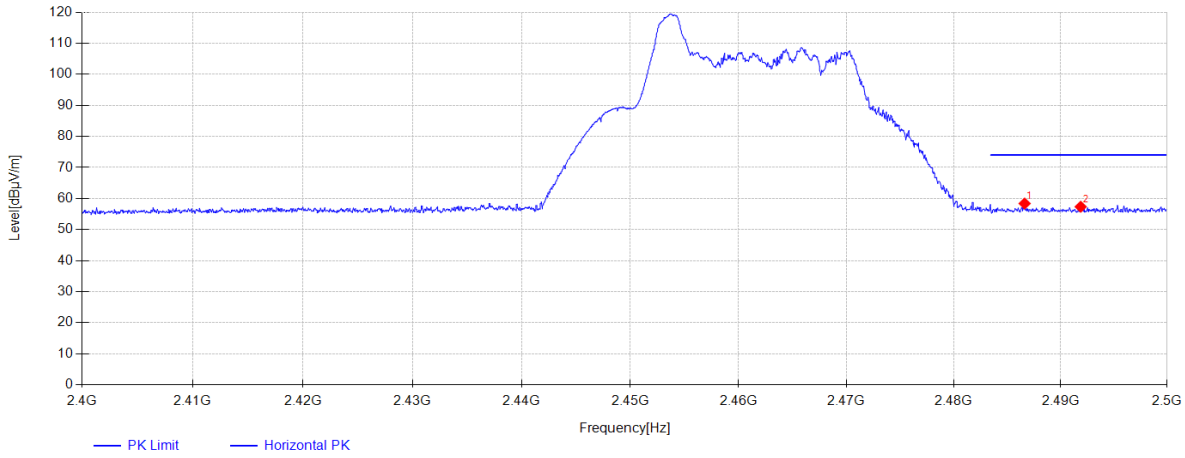
## 802.11ax20_Channel 11 26Tone RU0 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2486.6433 | 48.81 | 27.75 | -18.17 | 58.39 | 74.00 | 15.61 | Horizontal |
| 2 | 2491.8959 | 47.76 | 27.77 | -18.18 | 57.35 | 74.00 | 16.65 | Horizontal |

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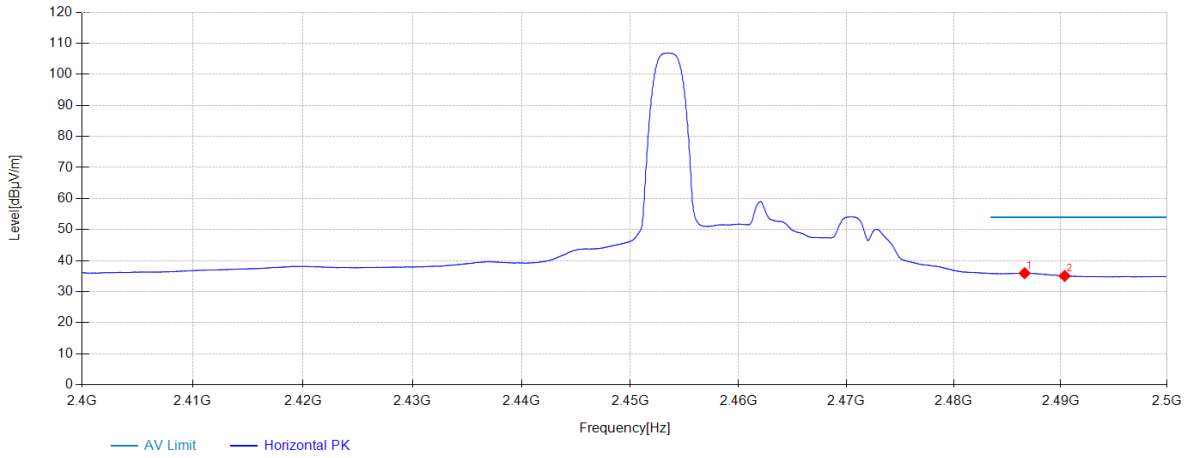
## 802.11ax20_Channel 11 26Tone RU0 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2486.6433 | 26.39 | 27.75 | -18.17 | 35.97 | 54.00 | 18.03 | Horizontal |
| 2 | 2490.3952 | 25.50 | 27.76 | -18.16 | 35.10 | 54.00 | 18.90 | Horizontal |

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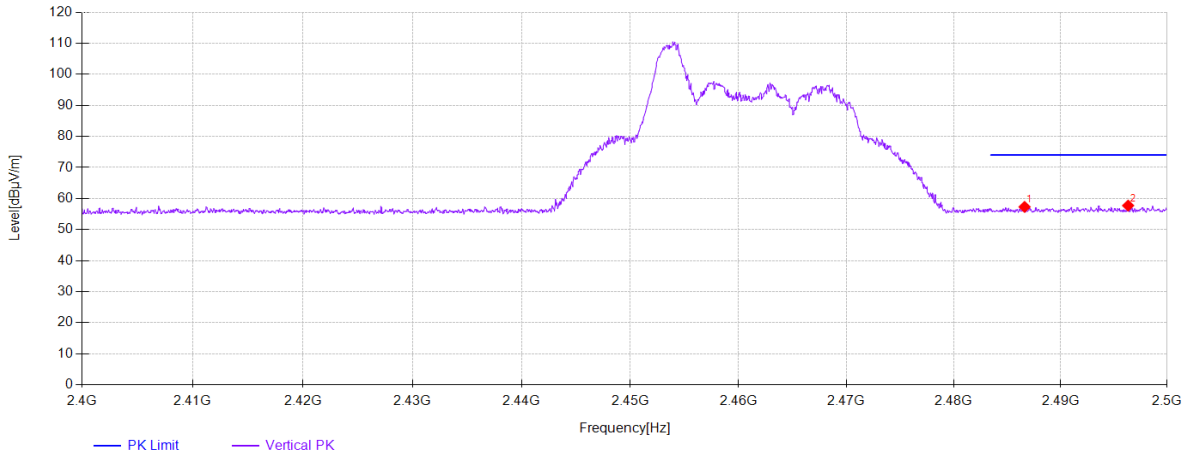


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2486.6433 | 47.73 | 27.75 | -18.17 | 57.31 | 74.00 | 16.69 | Vertical |
| 2 | 2496.3482 | 48.19 | 27.79 | -18.24 | 57.74 | 74.00 | 16.26 | Vertical |

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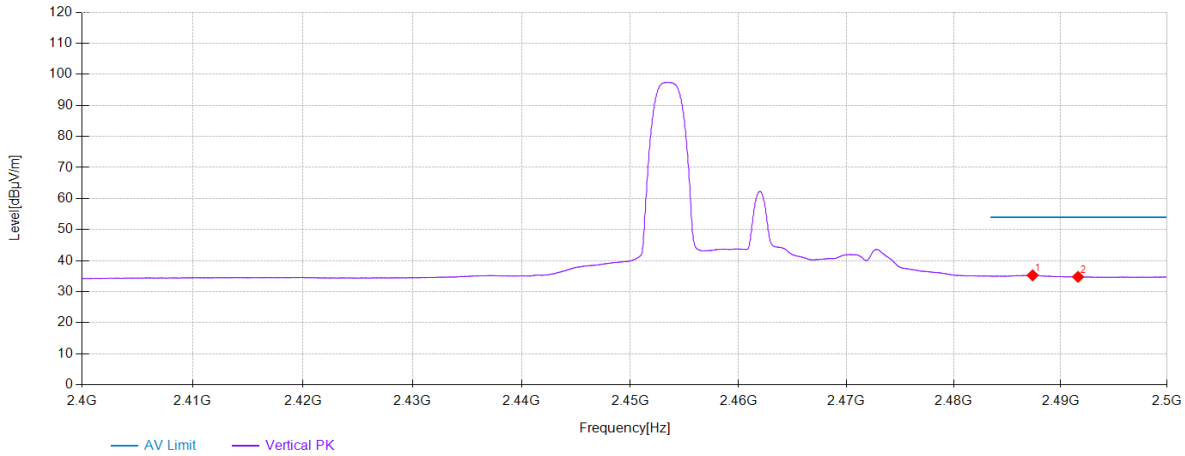


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2487.3937 | 25.69 | 27.75 | -18.17 | 35.27 | 54.00 | 18.73 | Vertical |
| 2 | 2491.6458 | 25.19 | 27.77 | -18.18 | 34.78 | 54.00 | 19.22 | Vertical |

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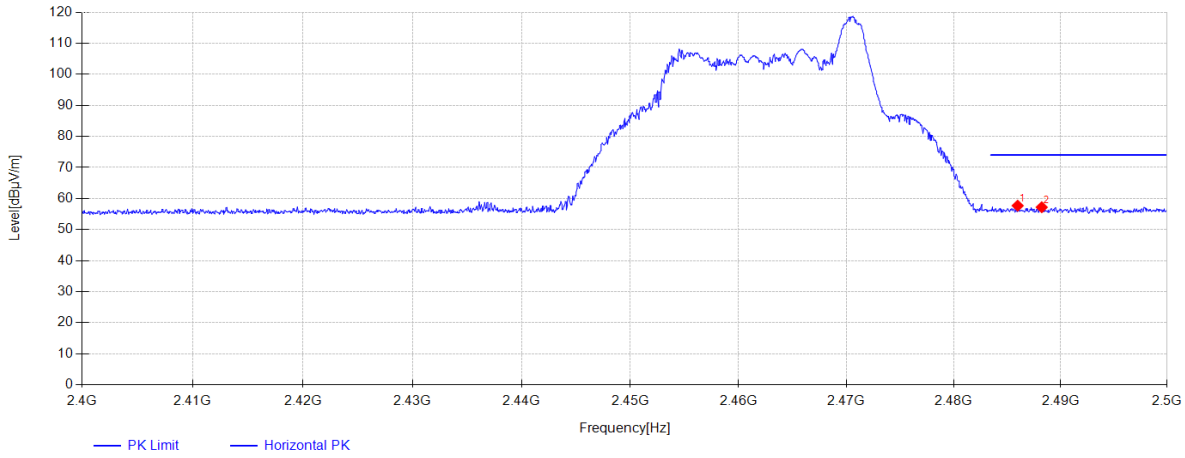
## 802.11ax20_Channel 11 26Tone RU8 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2485.993 | 48.14 | 27.74 | -18.18 | 57.70 | 74.00 | 16.30 | Horizontal |
| 2 | 2488.2441 | 47.62 | 27.75 | -18.17 | 57.20 | 74.00 | 16.80 | Horizontal |

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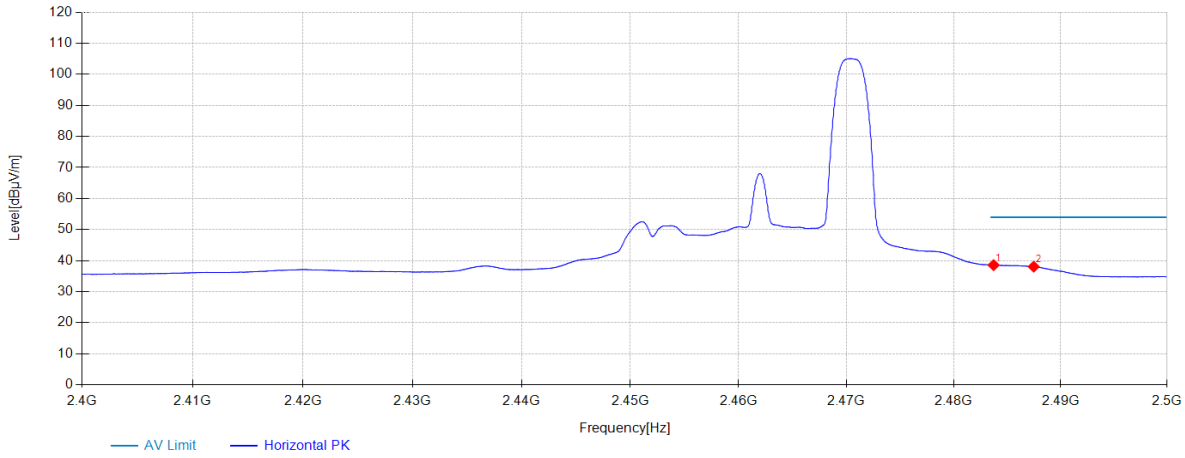


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.7419 | 29.03 | 27.73 | -18.19 | 38.57 | 54.00 | 15.43 | Horizontal |
| 2 | 2487.4937 | 28.49 | 27.75 | -18.17 | 38.07 | 54.00 | 15.93 | Horizontal |

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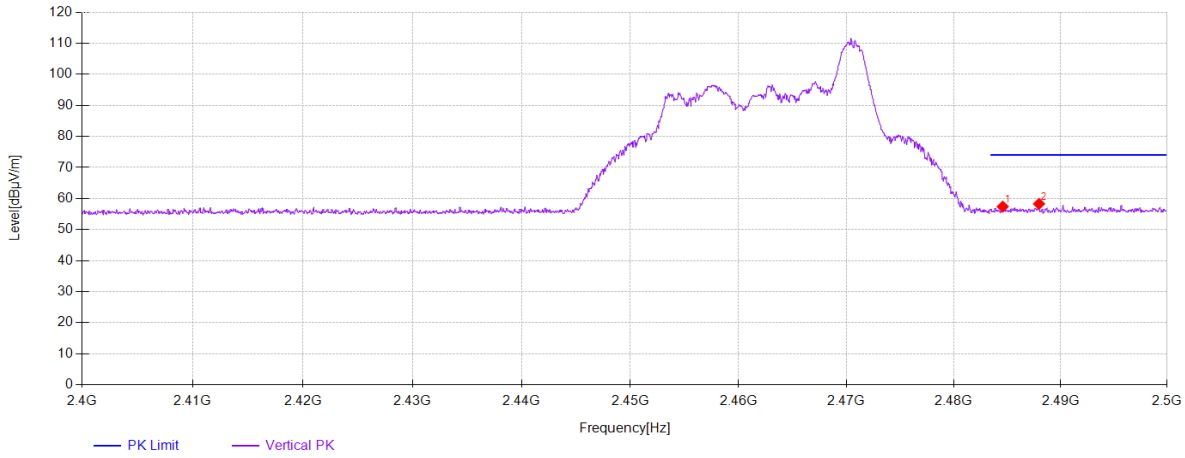


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2484.5923 | 47.83 | 27.74 | -18.18 | 57.39 | 74.00 | 16.61 | Vertical |
| 2 | 2487.994 | 48.70 | 27.75 | -18.17 | 58.28 | 74.00 | 15.72 | Vertical |

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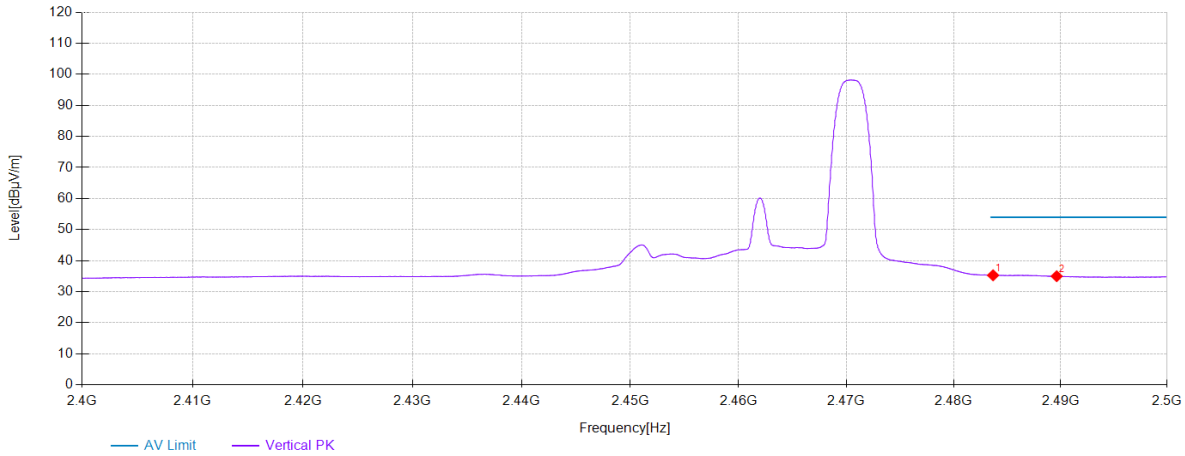


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2483.6918 | 25.76 | 27.73 | -18.19 | 35.30 | 54.00 | 18.70 | Vertical |
| 2 | 2489.6448 | 25.40 | 27.76 | -18.16 | 35.00 | 54.00 | 19.00 | Vertical |

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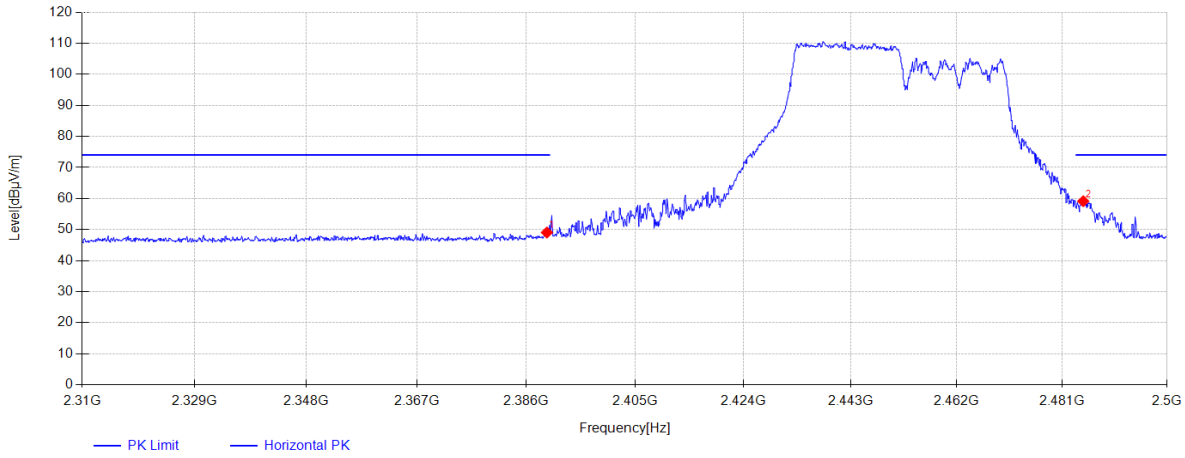
## 802.11ax40_Channel 9 242Tone RU61 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.5548 | 39.79 | 27.44 | -18.16 | 49.07 | 74.00 | 24.93 | Horizontal |
| 2 | 2484.7924 | 49.58 | 27.74 | -18.18 | 59.14 | 74.00 | 14.86 | Horizontal |

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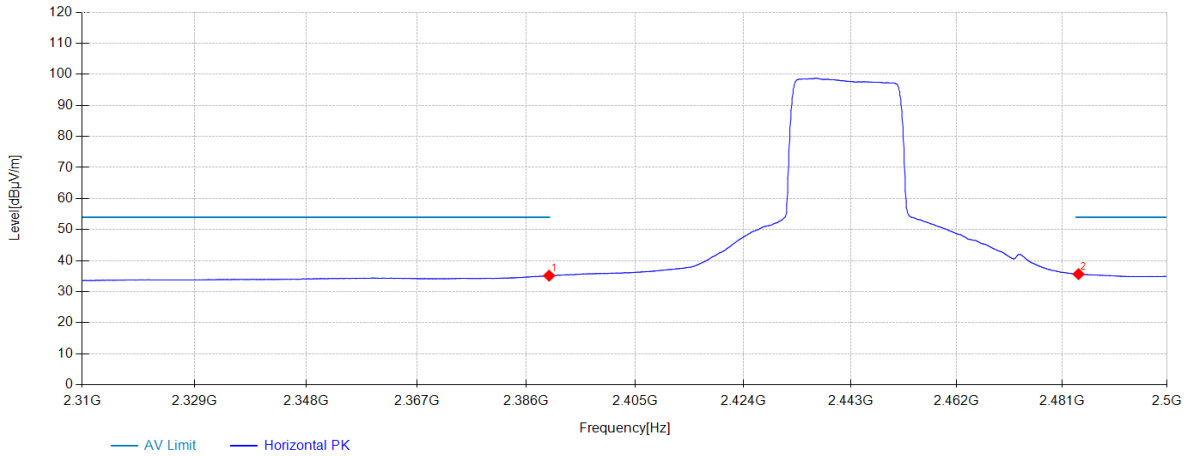


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBμV] | AF[dB/m] | Factor [dB] | Level [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 25.88 | 27.44 | -18.15 | 35.17 | 54.00 | 18.83 | Horizontal |
| 2 | 2483.937 | 26.11 | 27.74 | -18.18 | 35.67 | 54.00 | 18.33 | Horizontal |

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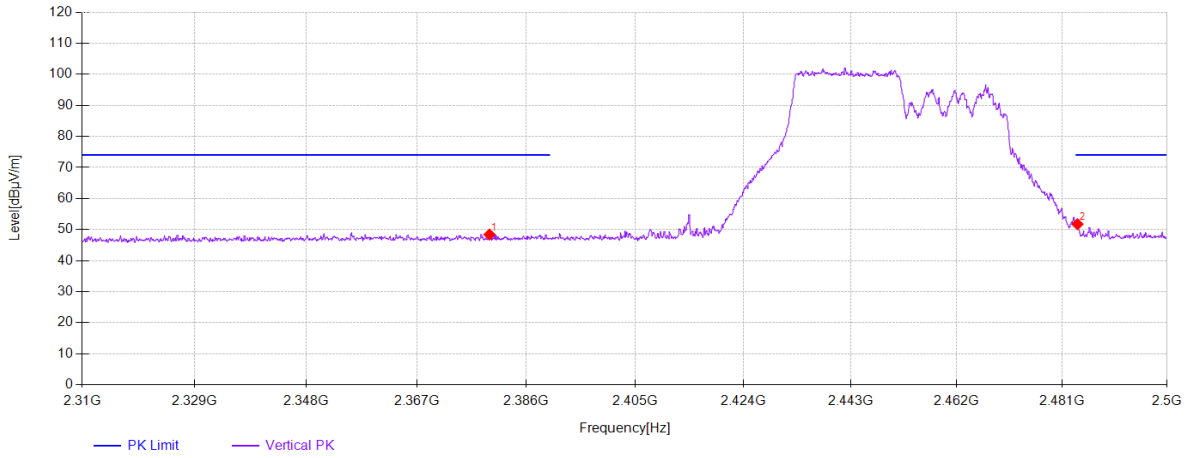
## 802.11ax40_Channel 9 242Tone RU61 MIMO




| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2379.5748 | 39.32 | 27.48 | -18.38 | 48.42 | 74.00 | 25.58 | Vertical |
| 2 | 2483.7469 | 42.21 | 27.73 | -18.19 | 51.75 | 74.00 | 22.25 | Vertical |

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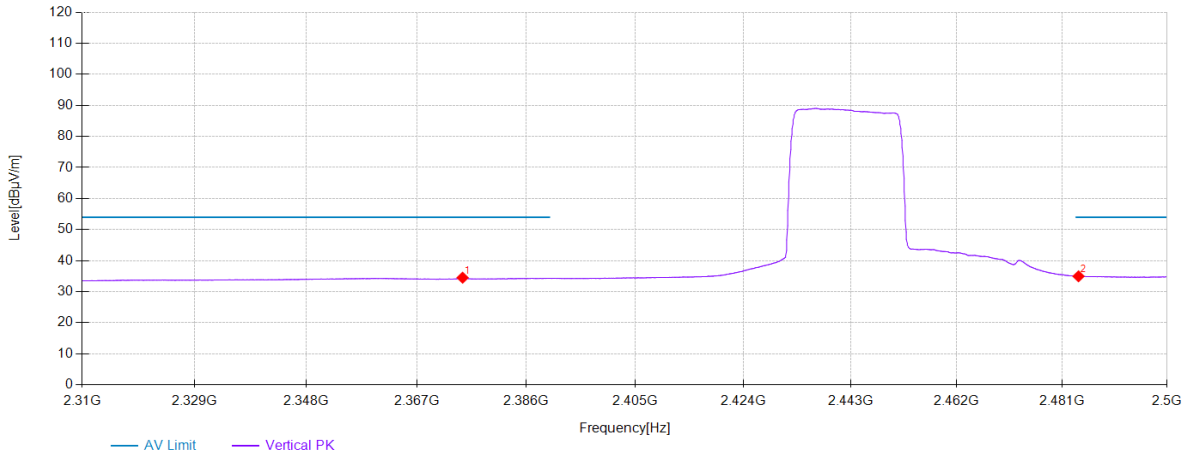


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2374.9175 | 25.45 | 27.50 | -18.43 | 34.52 | 54.00 | 19.48 | Vertical |
| 2 | 2483.937 | 25.41 | 27.74 | -18.18 | 34.97 | 54.00 | 19.03 | Vertical |

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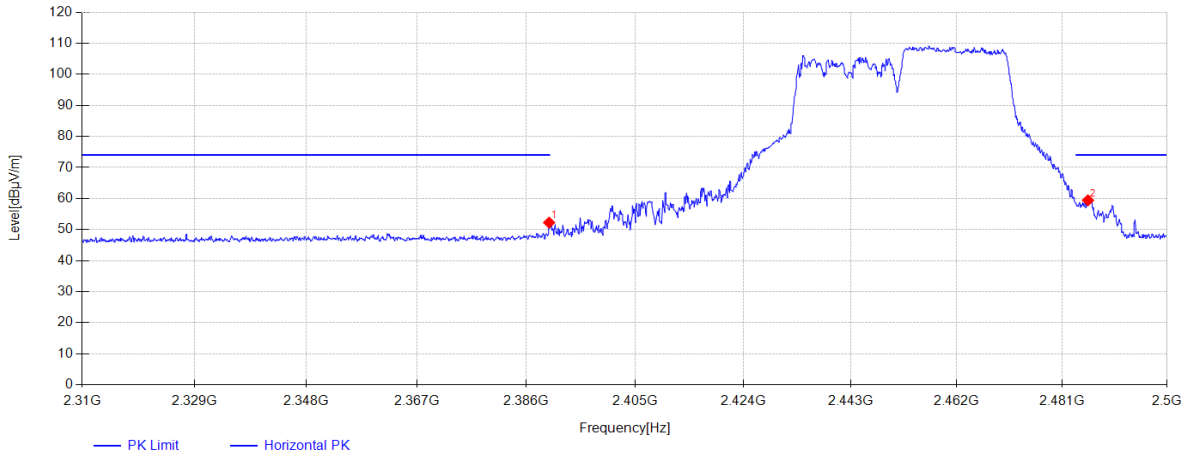


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.935 | 42.97 | 27.44 | -18.15 | 52.26 | 74.00 | 21.74 | Horizontal |
| 2 | 2485.6478 | 49.87 | 27.74 | -18.18 | 59.43 | 74.00 | 14.57 | Horizontal |

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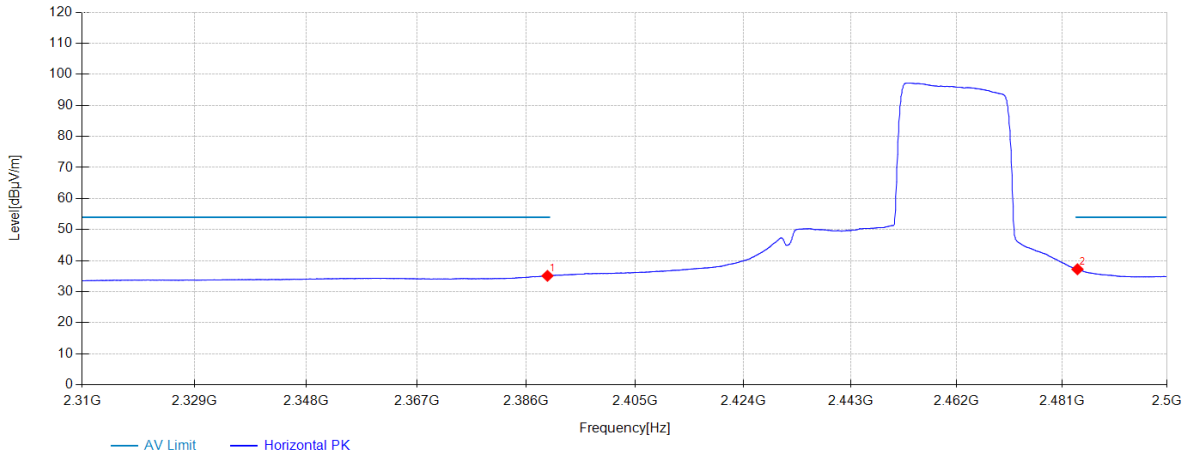


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2389.6498 | 25.83 | 27.44 | -18.16 | 35.11 | 54.00 | 18.89 | Horizontal |
| 2 | 2483.7469 | 27.70 | 27.73 | -18.19 | 37.24 | 54.00 | 16.76 | Horizontal |

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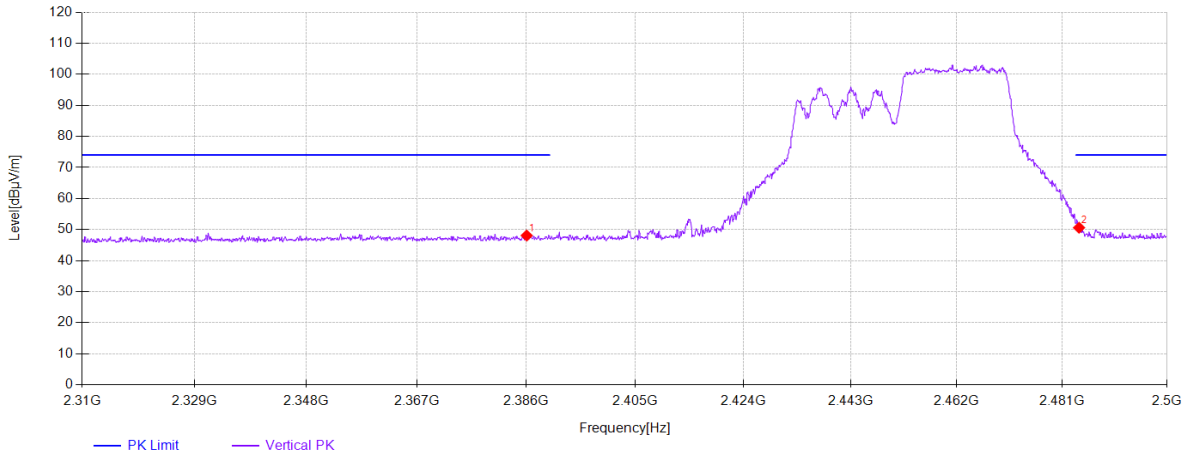


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2386.038 | 38.87 | 27.46 | -18.24 | 48.09 | 74.00 | 25.91 | Vertical |
| 2 | 2484.032 | 41.05 | 27.74 | -18.18 | 50.61 | 74.00 | 23.39 | Vertical |

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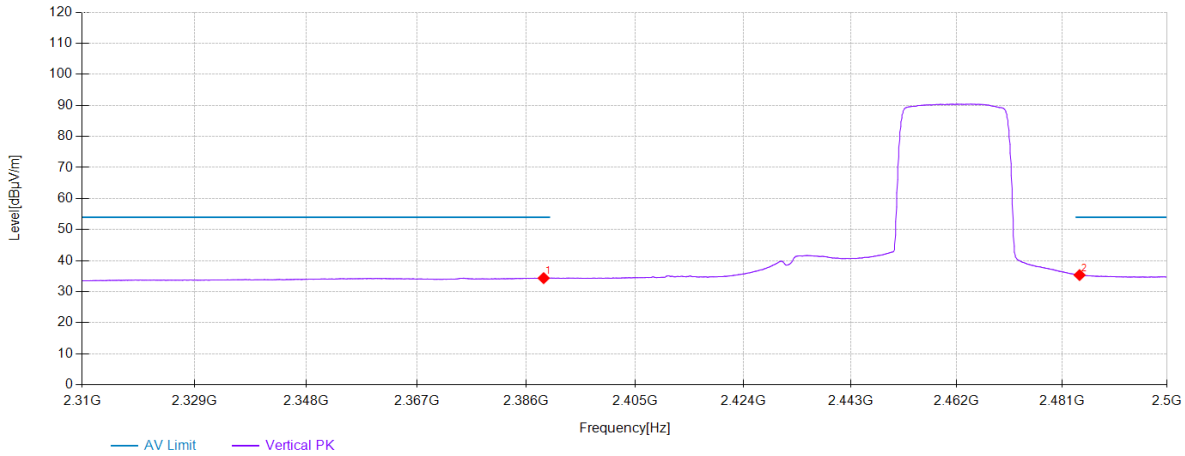


| Data List | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | Frequency [MHz] | Reading [dBµV] | AF[dB/m] | Factor [dB] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Polarity |
| 1 | 2388.9845 | 25.11 | 27.44 | -18.17 | 34.38 | 54.00 | 19.62 | Vertical |
| 2 | 2484.1271 | 25.80 | 27.74 | -18.18 | 35.36 | 54.00 | 18.64 | Vertical |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:
   Level = Reading(dBµV) + AF(dB/m) + Factor(dB):
   AF = Antenna Factor(dB/m)
   Factor = Cable Factor(dB) - Preamplifier gain(dB)
   Margin = Limit(dBµV/m) – Level(dBµV/m)
2) Both peak and average measured complies with the limit line, so test result is "PASS"
3) For WLAN SISO & CDD/MIMO mode for 802.11b/g/n/ax mode, the whole testing has assessed only CDD/MIMO mode by referring to their higher output power.

---End of Report---

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