

Group variances of reference scenario experiments of Access Point CREW_64:70:02:3e:9f:63

| Measurement Points | Room | X in meters | Y in meters | Experiment01 Variance | Experiment01 Mean in dBm | Experiment02 Variance | Experiment02 Mean in dBm | Experiment03 Variance | Experiment03 Mean in dBm | Experiment04 Variance | Experiment04 Mean in dBm | Group Variance |
|--------------------|-------------|-------------|-------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|-----------------------|--------------------------|----------------|
| 1 | FT236 | 2.02 | 10.98 | 0.6 | -65.07 | 0.35 | -70.75 | 0.41 | -68.7 | 9.15 | -75.45 | 17.9 |
| 2 | FT222 | 2.17 | 4.98 | 0.46 | -77.27 | 0.45 | -81.91 | 21.34 | -77.4 | 1.66 | -82.8 | 13.82 |
| 3 | hollway_2nd | 3.51 | 9.02 | 1.33 | -64 | 0.91 | -72.08 | 6.23 | -72.65 | 36.16 | -74.8 | 29.35 |
| 4 | FT235 | 5.16 | 10.94 | 0.96 | -47.2 | 1.56 | -59.67 | 14.15 | -62.5 | 2.45 | -63.55 | 46.52 |
| 5 | FT223 | 5.39 | 5.06 | 1.13 | -75.93 | 2.31 | -69.83 | 1.86 | -73.2 | 5.6 | -77 | 9.6 |
| 6 | FT223 | 8.48 | 1.93 | 0.38 | -74.87 | 4.97 | -74.83 | 1.43 | -78.15 | 0.25 | -82.83 | 12.1 |
| 7 | hollway_2nd | 9.81 | 9.02 | 1.18 | -50.87 | 2.08 | -59.58 | 0.43 | -67.85 | 1.4 | -66 | 44.97 |
| 8 | FT224 | 11.57 | 5.06 | 0.25 | -62.87 | 0.22 | -73.67 | 22.64 | -73.6 | 19.03 | -71.15 | 30.37 |
| 9 | FT224 | 11.57 | 1.89 | 1.17 | -64.6 | 1.69 | -69.75 | 6.37 | -73.95 | 30.43 | -66.35 | 25.24 |
| 10 | FT233 | 14.48 | 10.95 | 0.2 | -47.93 | 0.19 | -49.75 | 0.23 | -53.15 | 0.39 | -51.1 | 3.97 |
| 11 | hollway_2nd | 16.12 | 9.02 | 0.33 | -51.73 | 16.41 | -48.92 | 1.61 | -51.7 | 0.45 | -49.95 | 4.9 |
| 12 | FT225 | 17.56 | 5.06 | 2.22 | -62.33 | 1.52 | -61.25 | 5.11 | -67.7 | 3.61 | -64.3 | 9.35 |
| 13 | FT232 | 17.59 | 10.95 | 0.36 | -39.33 | 6.91 | -44.08 | 0.46 | -41.2 | 0.15 | -39.05 | 4.85 |
| 14 | FT231 | 20.54 | 10.94 | 8.49 | -28.33 | 0.85 | -62.75 | 0.25 | -43.55 | 33.35 | -37.95 | 136.62 |
| 15 | FT225 | 20.71 | 1.65 | 62.77 | -58.6 | 0.85 | -62.75 | 40.14 | -63.6 | 1.75 | -66.55 | 34.88 |
| 16 | hollway_2nd | 22.08 | 9.02 | 0.37 | -43.6 | 2.69 | -52.75 | 0.45 | -50.5 | 0.73 | -46.35 | 11.96 |
| 17 | FT226 | 23.9 | 1.67 | 2.38 | -66.53 | 10.24 | -77.58 | 1.4 | -71.42 | 37.51 | -68.47 | 28.15 |
| 18 | FT226 | 26.53 | 5.39 | 0.6 | -71.93 | 15.25 | -76.5 | 48.03 | -71.85 | 1.94 | -70.6 | 21.89 |
| 19 | stairs_2nd | 26.68 | 9.03 | 22.12 | -60.47 | 3.08 | -52.92 | 10.33 | -59.15 | 4.83 | -61.15 | 18.52 |
| 20 | FT227 | 30.28 | 1.67 | 0.77 | -72.4 | 0.5 | -73 | 18.85 | -70.55 | 1.53 | -76.15 | 11.17 |
| Average | | | | 5.4 | | 3.65 | | 10.09 | | 9.62 | | 25.81 |

Group variances of signal generator interference scenario experiments of Access Point CREW_64:70:02:3e:9f:63

| Measurement | Room | X in | Y in | Experiment01 | Experiment01 | Experiment02 | Experiment02 | Group |
|-------------|------|------|------|--------------|--------------|--------------|--------------|-------|
|-------------|------|------|------|--------------|--------------|--------------|--------------|-------|

| Points | | meters | meters | Variance | Mean in dBm | Variance | Mean in dBm | Variance |
|---------|-------------|--------|--------|----------|-------------|----------|-------------|----------|
| 1 | FT236 | 2.02 | 10.98 | 3.24 | -73.4 | 14.89 | -75.9 | 10.63 |
| 2 | FT222 | 2.17 | 4.98 | 0.69 | -80.92 | No Data | No Data | 0.69 |
| 3 | hollway_2nd | 3.51 | 9.02 | 2.13 | -74.15 | 0.09 | -67.89 | 10.91 |
| 4 | FT235 | 5.16 | 10.94 | 3.39 | -65.25 | 1.06 | -65.32 | 2.25 |
| 5 | FT223 | 5.39 | 5.06 | No Data | No Data | No Data | No Data | No Data |
| 6 | FT223 | 8.48 | 1.93 | No Data | No Data | No Data | No Data | No Data |
| 7 | hollway_2nd | 9.81 | 9.02 | 2.13 | -64.35 | 0.95 | -64.95 | 1.63 |
| 8 | FT224 | 11.57 | 1.89 | No Data | No Data | 0 | -62 | 0 |
| 9 | FT224 | 11.57 | 5.06 | No Data | No Data | No Data | No Data | No Data |
| 10 | FT233 | 14.48 | 10.95 | 49.21 | -51.3 | 0.44 | -53.4 | 25.93 |
| 11 | hollway_2nd | 16.12 | 9.02 | 2.23 | -47.65 | 0 | -53 | 8.31 |
| 12 | FT225 | 17.56 | 5.06 | No Data | No Data | No Data | No Data | No Data |
| 13 | FT232 | 17.59 | 10.95 | 1.23 | -46.65 | 0.13 | -47.15 | 0.74 |
| 14 | FT231 | 20.54 | 10.94 | 0.94 | -39.6 | 7.99 | -32.75 | 16.19 |
| 15 | FT225 | 20.71 | 1.65 | No Data | No Data | No Data | No Data | No Data |
| 16 | hollway_2nd | 22.08 | 9.02 | 4.56 | -48.58 | 2.61 | -50.3 | 4.3 |
| 17 | FT226 | 23.9 | 1.67 | No Data | No Data | No Data | No Data | No Data |
| 18 | FT226 | 26.53 | 5.39 | No Data | No Data | No Data | No Data | No Data |
| 19 | stairs_2nd | 26.68 | 9.03 | 1.03 | -58.71 | 0.15 | -61 | 1.94 |
| 20 | FT226 | 30.28 | 1.67 | No Data | No Data | No Data | No Data | No Data |
| Average | | | | 6.43 | | 2.57 | | 6.96 |

Group variances of wifi interference scenario experiments of Access Point CREW_64:70:02:3e:9f:63

| Measurement Points | Room | X in meters | Y in meters | Experiment01 Variance | Experiment01 Mean in dBm | Experiment02 Variance | Experiment02 Mean in dBm | Group Variance |
|--------------------|-------------|-------------|-------------|-----------------------|--------------------------|-----------------------|--------------------------|----------------|
| 1 | FT236 | 2.02 | 10.98 | 17.39 | -72.25 | 8.15 | -72.5 | 12.78 |
| 2 | FT222 | 2.17 | 4.98 | 23.73 | -78.35 | 0.85 | -79.55 | 12.65 |
| 3 | hollway_2nd | 3.51 | 9.02 | 35.59 | -70.9 | 5 | -71 | 20.3 |
| 4 | FT235 | 5.16 | 10.94 | 9.39 | -61.9 | 1.93 | -67.85 | 14.51 |
| 5 | FT223 | 5.39 | 5.06 | 0.76 | -77.37 | 1.85 | -75.79 | 1.93 |

| | | | | | | | | |
|---------|-------------|-------|-------|-------|--------|-------|--------|-------|
| 6 | FT223 | 8.48 | 1.93 | 0.18 | -83.23 | 7.95 | -79.55 | 8.12 |
| 7 | hollway_2nd | 9.81 | 9.02 | 1.84 | -62.6 | 12.49 | -61.9 | 7.29 |
| 8 | FT224 | 11.57 | 5.06 | 32.24 | -73.6 | 0.32 | -75.32 | 17.43 |
| 9 | FT224 | 11.57 | 1.89 | 1.85 | -72.5 | 9.53 | -69.85 | 7.44 |
| 10 | FT233 | 14.48 | 10.95 | 0.55 | -54.55 | 0.33 | -50.85 | 3.86 |
| 11 | hollway_2nd | 16.12 | 9.02 | 35.25 | -53.95 | 1.75 | -53.45 | 18.56 |
| 12 | FT225 | 17.56 | 5.06 | 1.74 | -60.6 | 9.81 | -57.3 | 8.5 |
| 13 | FT232 | 17.59 | 10.95 | 58.53 | -45.85 | 36.63 | -49.85 | 51.58 |
| 14 | FT231 | 20.54 | 10.94 | 0.31 | -39.3 | 0.24 | -38.6 | 0.4 |
| 15 | FT225 | 20.71 | 1.65 | 6.43 | -63.85 | 4.15 | -62.45 | 5.78 |
| 16 | hollway_2nd | 22.08 | 9.02 | 0.45 | -52.55 | 0.1 | -46 | 11 |
| 17 | FT226 | 23.9 | 1.67 | 2.65 | -69.5 | 1.11 | -73.3 | 5.49 |
| 18 | FT226 | 26.53 | 5.39 | 3.13 | -74.85 | 32.85 | -74.05 | 18.15 |
| 19 | stairs_2nd | 26.68 | 9.03 | 0.49 | -58.9 | 0.35 | -57.95 | 0.64 |
| 20 | FT227 | 30.28 | 1.67 | 3.64 | -70.21 | 1.05 | -69.05 | 2.65 |
| Average | | | | 11.81 | | 6.82 | | 11.45 |