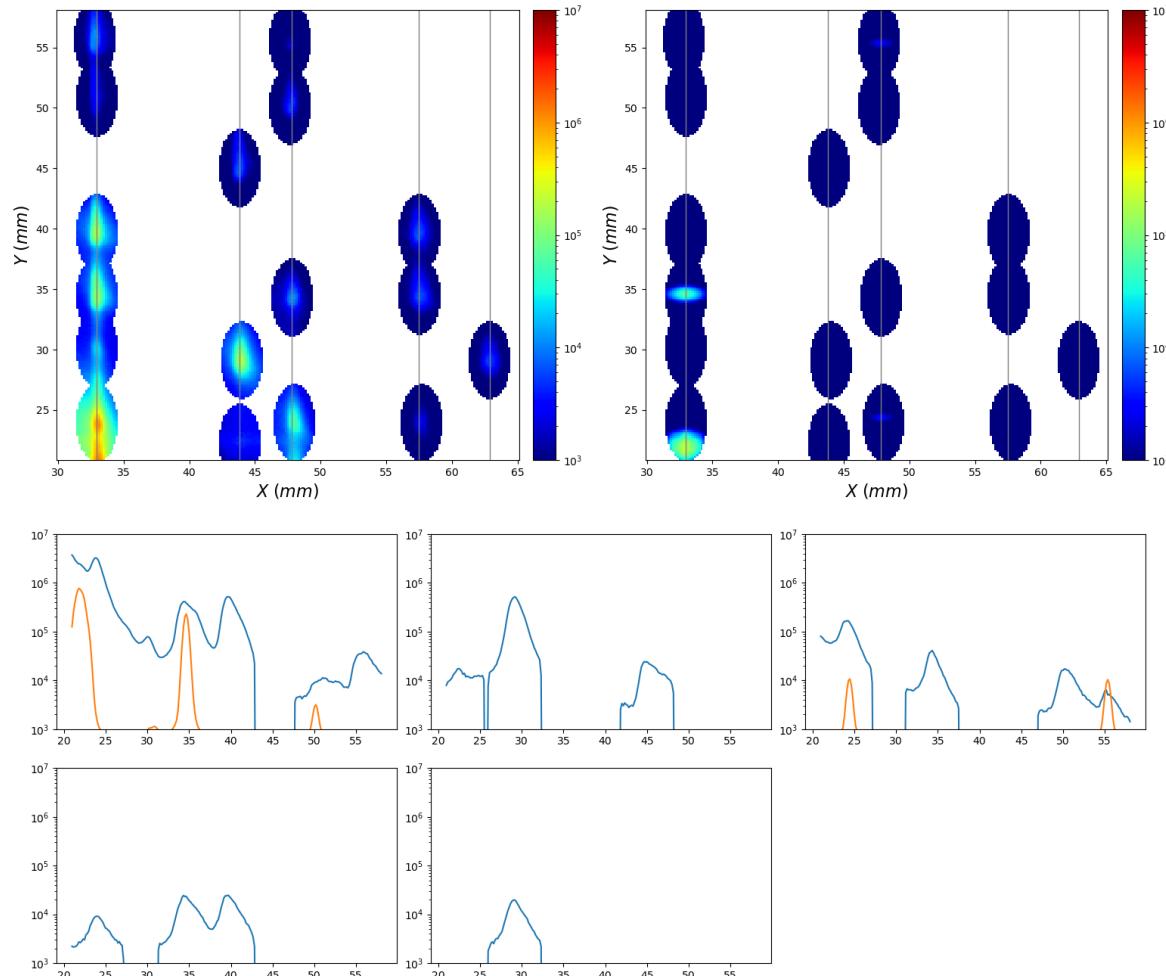


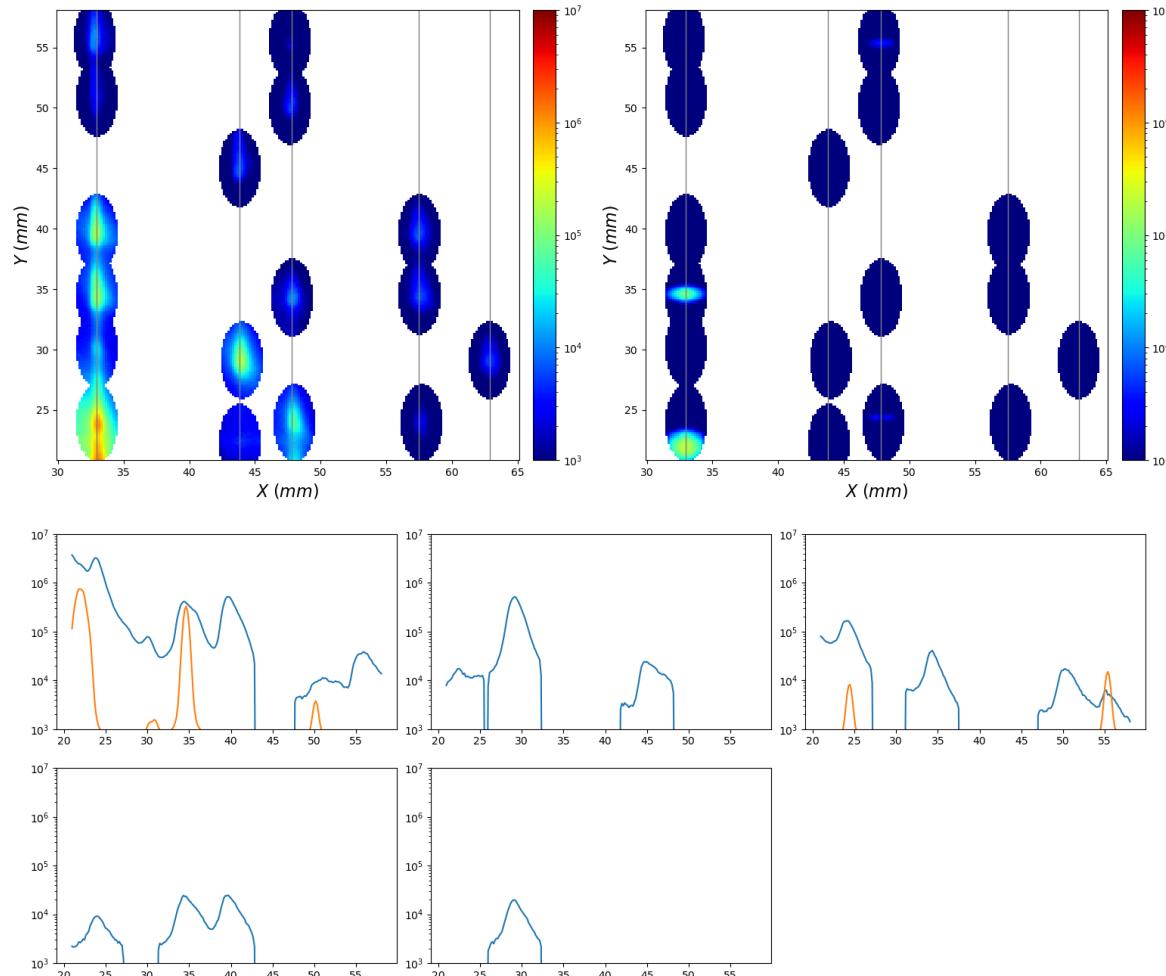
Single meso, rotation_z

```
{  
    "sample_builder_type": "SampleBuilderVer2",  
    "roughness": 6.0,  
    "surface_filling_ratio": 0.15,  
    "average_layer_thickness": 1000,  
    "meso_elevation": 50,  
    "meso_factory_type": "SingleMesoFactory",  
    "diffuse_builder_type": "None",  
    "meso_builder_type": "FixedCylinder",  
    "lattice_length_a": 12.5,  
    "lattice_length_c": 31.1,  
    "nparticles": 10,  
    "nanoparticle_radius": 5.02,  
    "sigma_nanoparticle_radius": 0.3,  
    "meso_height": 800,  
    "meso_radius": 2000,  
    "sigma_meso_height": 20.0,  
    "sigma_meso_radius": 20.0,  
    "sigma_lattice_length_a": 0.1,  
    "rotation_x": 0.0,  
    "rotation_z": -5.0  
}
```



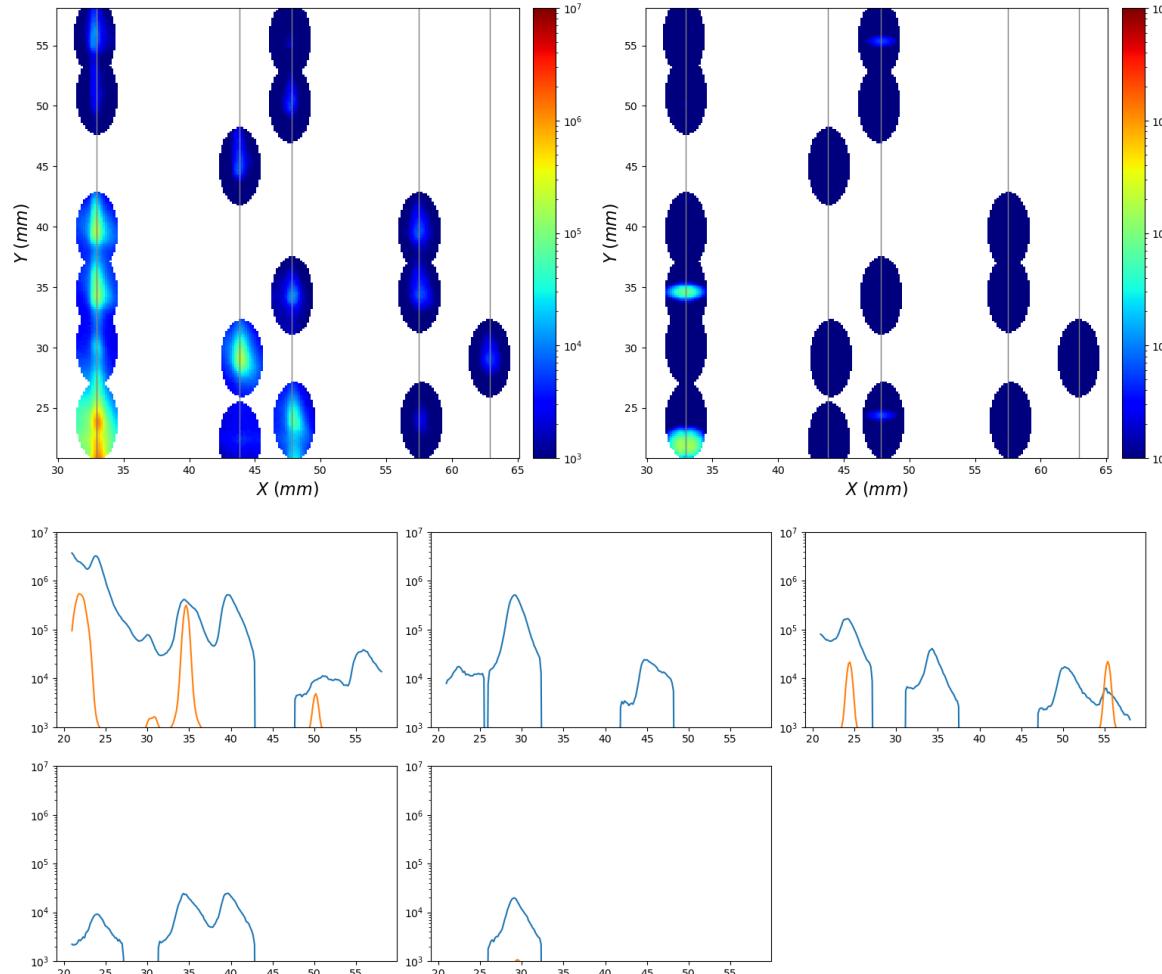
Single meso, rotation_z

```
{  
    "sample_builder_type": "SampleBuilderVer2",  
    "roughness": 6.0,  
    "surface_filling_ratio": 0.15,  
    "average_layer_thickness": 1000,  
    "meso_elevation": 50,  
    "meso_factory_type": "SingleMesoFactory",  
    "diffuse_builder_type": "None",  
    "meso_builder_type": "FixedCylinder",  
    "lattice_length_a": 12.5,  
    "lattice_length_c": 31.1,  
    "nparticles": 10,  
    "nanoparticle_radius": 5.02,  
    "sigma_nanoparticle_radius": 0.3,  
    "meso_height": 800,  
    "meso_radius": 2000,  
    "sigma_meso_height": 20.0,  
    "sigma_meso_radius": 20.0,  
    "sigma_lattice_length_a": 0.1,  
    "rotation_x": 0.0,  
    "rotation_z": -4.8  
}
```



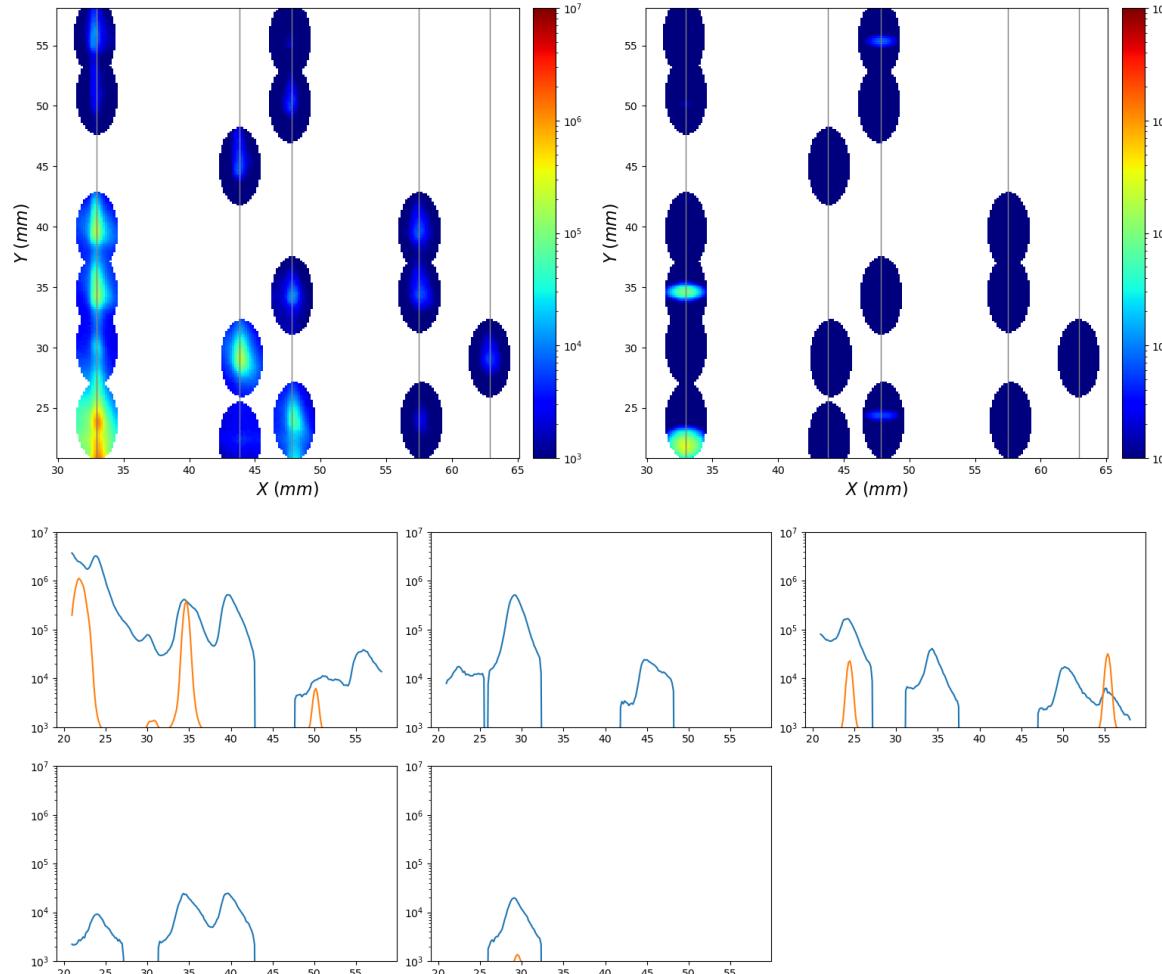
Single meso, rotation_z

```
{  
    "sample_builder_type": "SampleBuilderVer2",  
    "roughness": 6.0,  
    "surface_filling_ratio": 0.15,  
    "average_layer_thickness": 1000,  
    "meso_elevation": 50,  
    "meso_factory_type": "SingleMesoFactory",  
    "diffuse_builder_type": "None",  
    "meso_builder_type": "FixedCylinder",  
    "lattice_length_a": 12.5,  
    "lattice_length_c": 31.1,  
    "nparticles": 10,  
    "nanoparticle_radius": 5.02,  
    "sigma_nanoparticle_radius": 0.3,  
    "meso_height": 800,  
    "meso_radius": 2000,  
    "sigma_meso_height": 20.0,  
    "sigma_meso_radius": 20.0,  
    "sigma_lattice_length_a": 0.1,  
    "rotation_x": 0.0,  
    "rotation_z": -4.6  
}
```



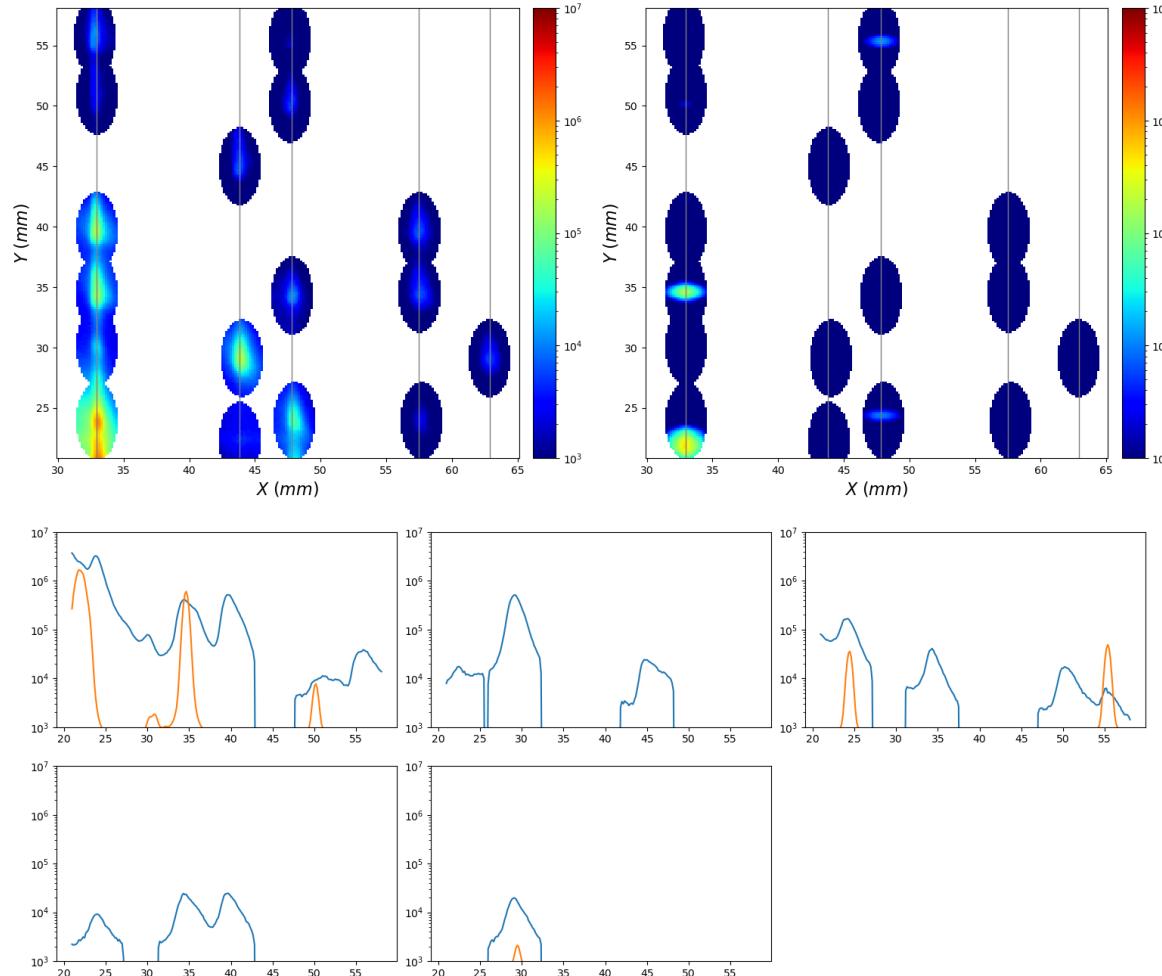
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -4.4
}
```



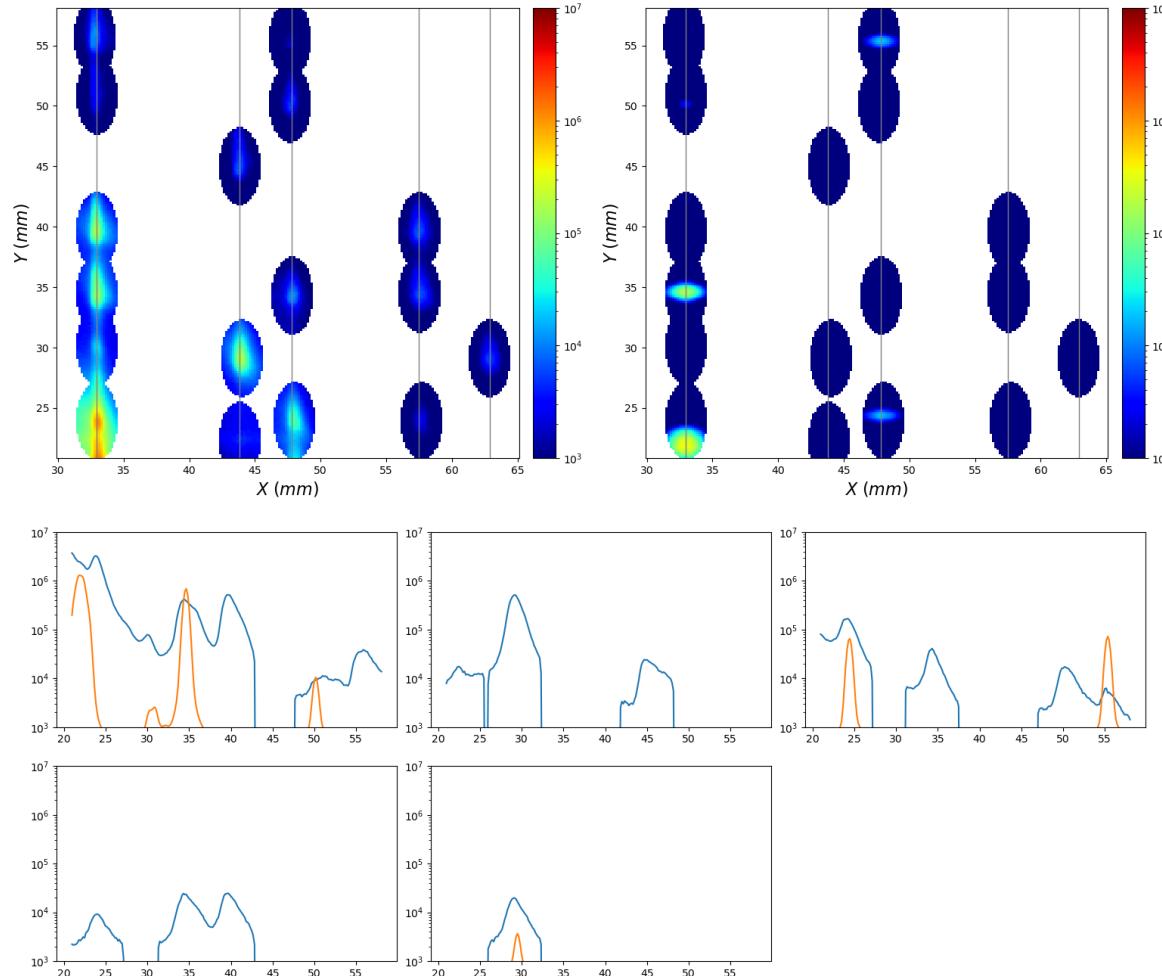
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -4.2
}
```



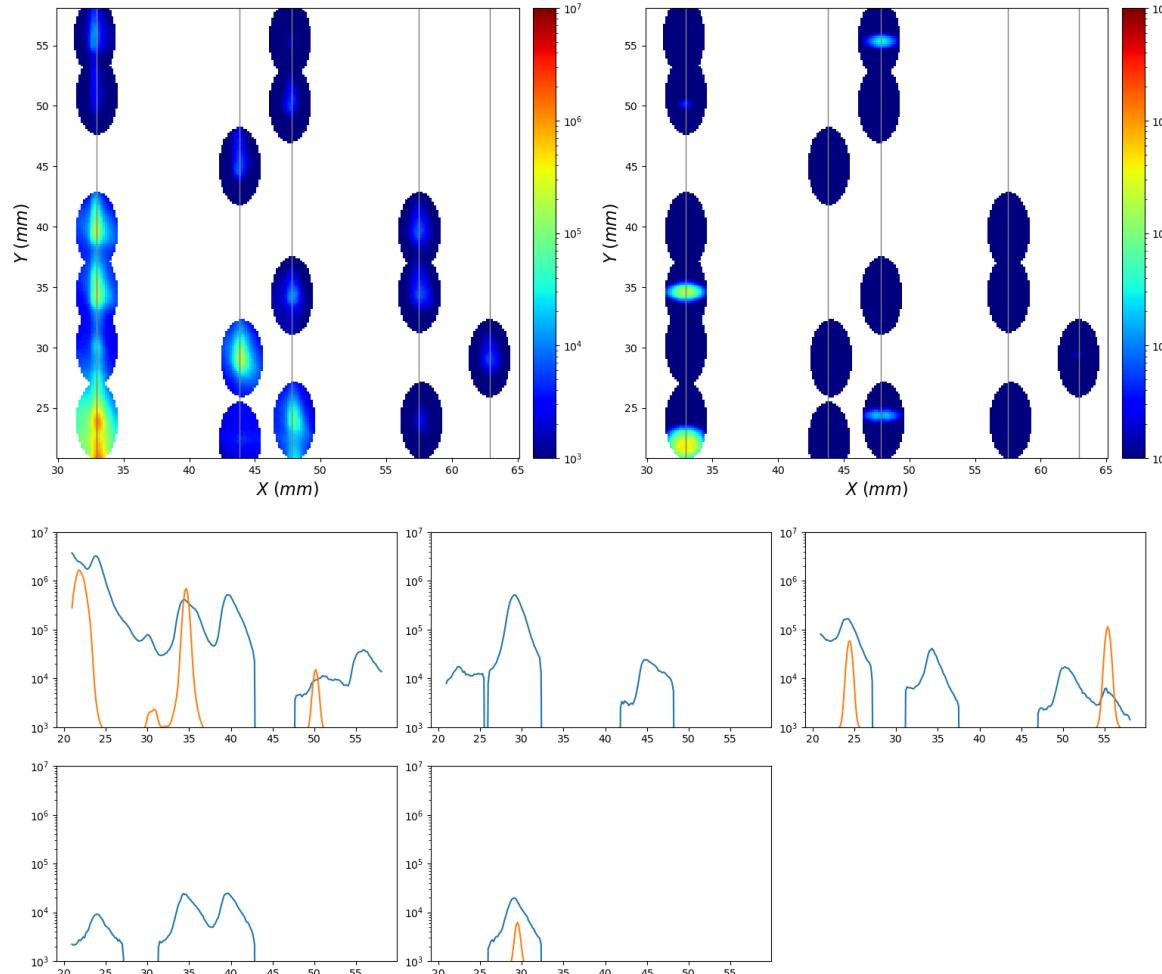
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -4.0
}
```



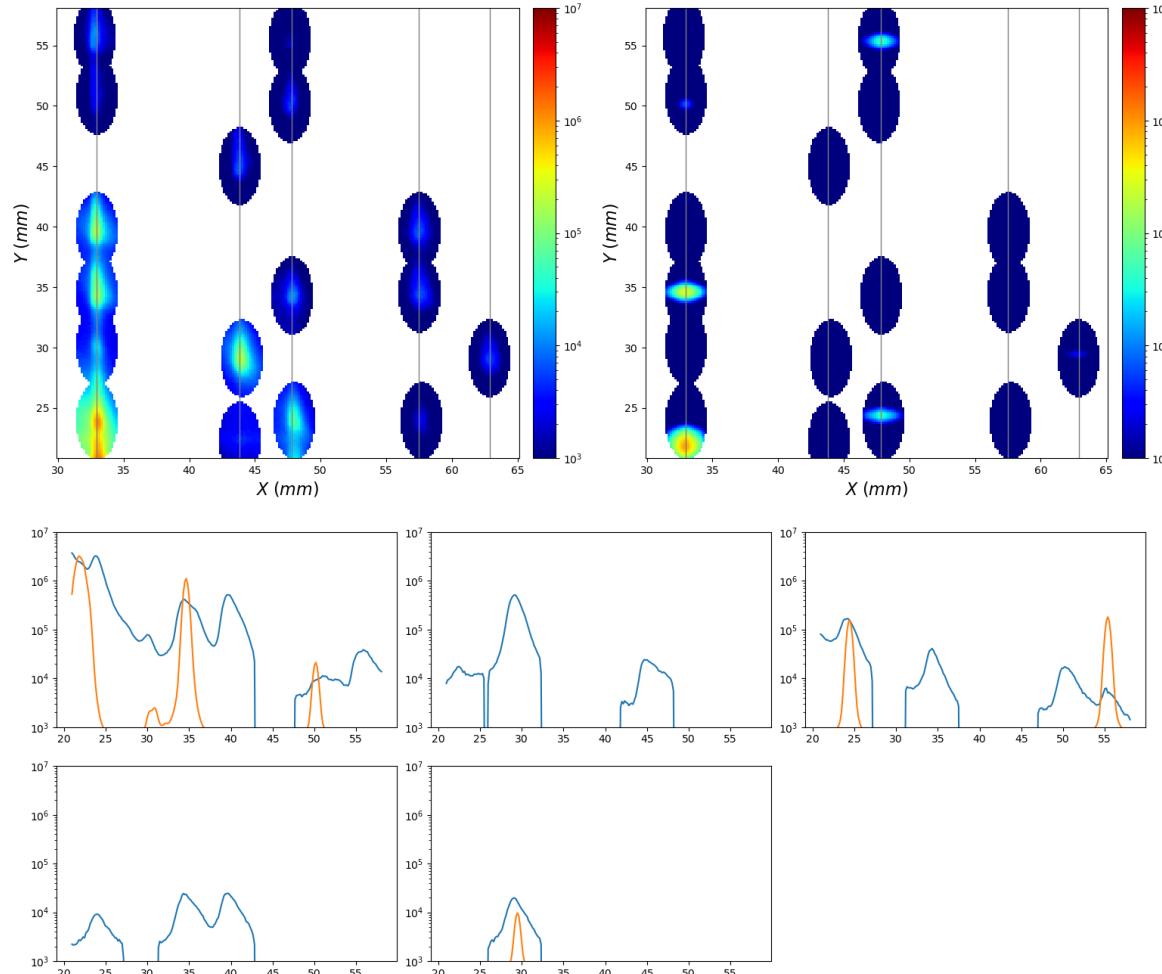
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -3.8
}
```



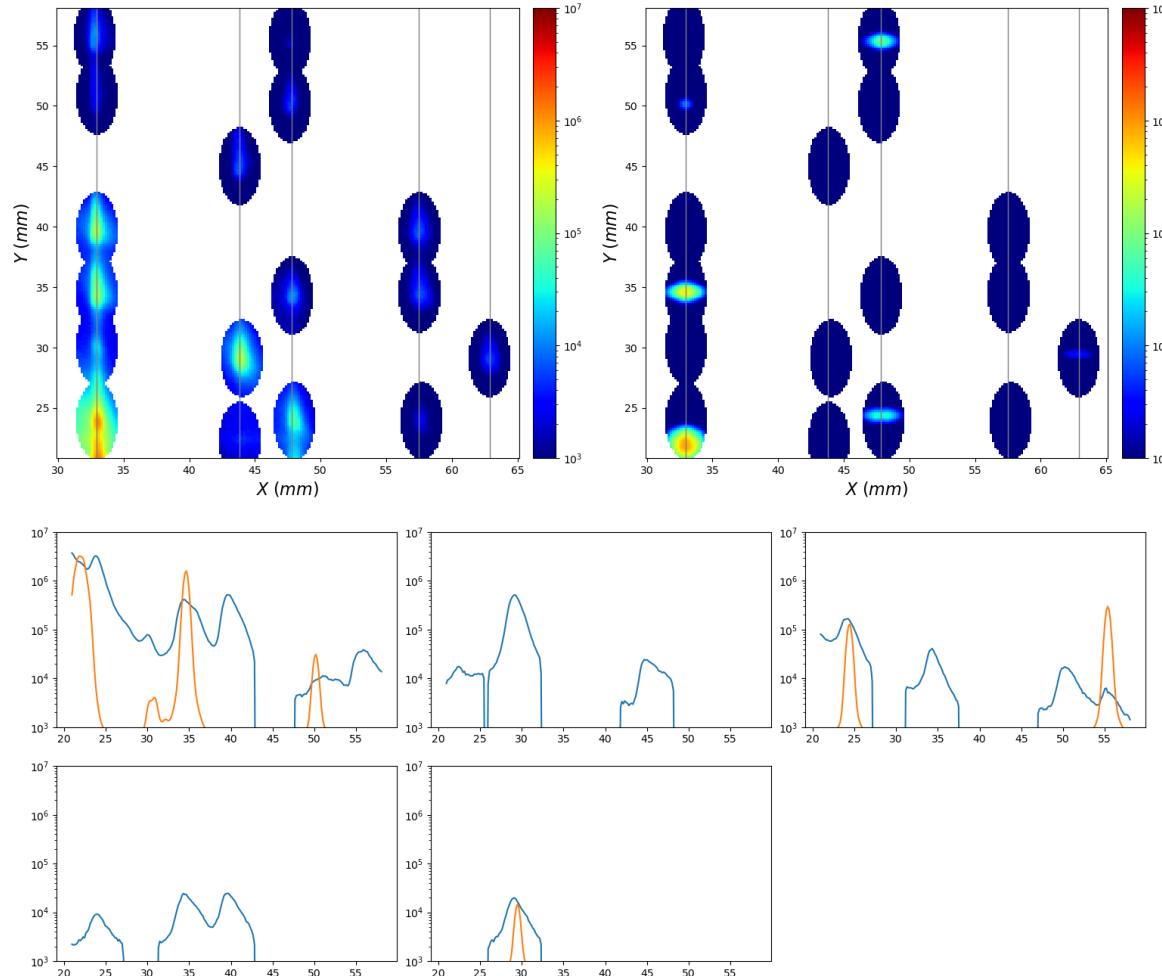
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -3.5999999999999996
}
```



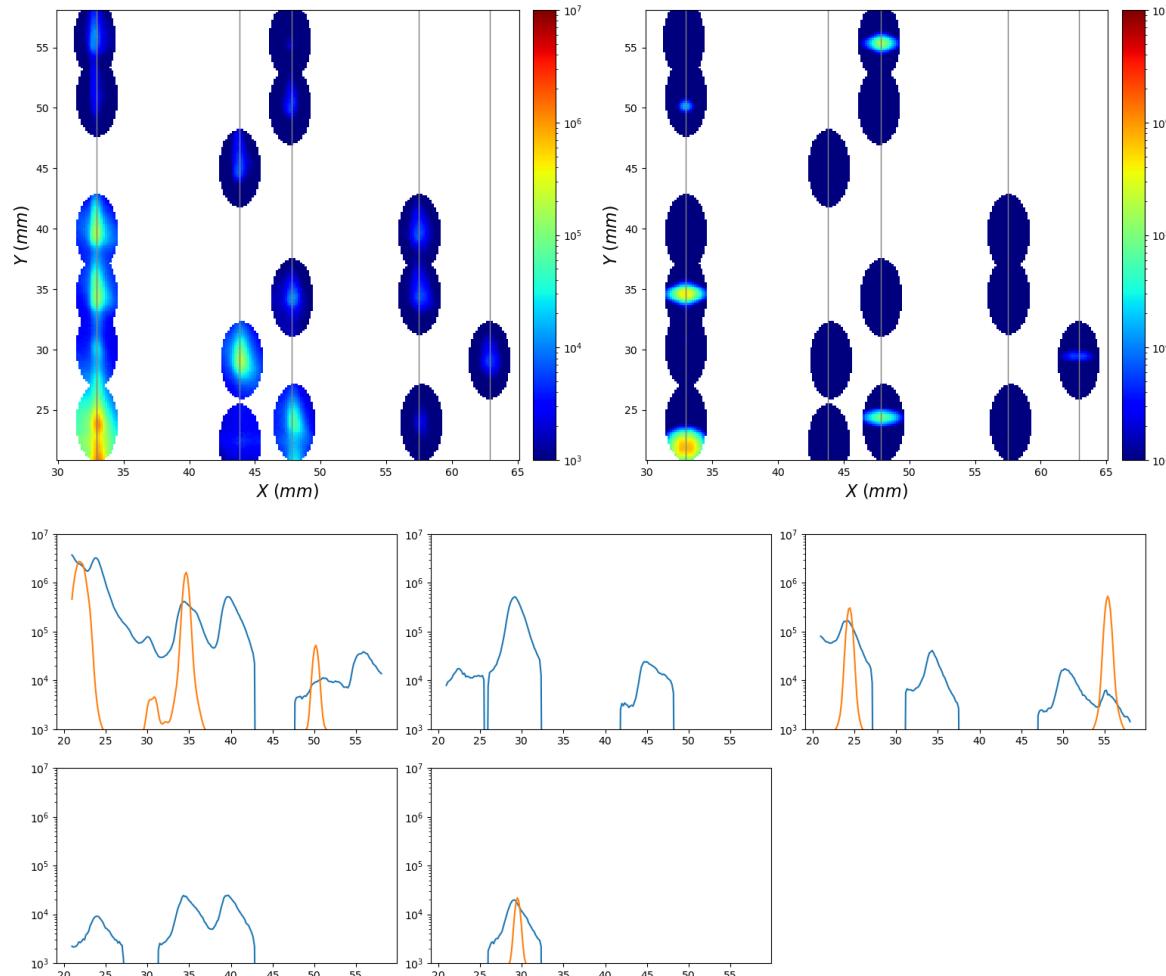
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -3.4
}
```



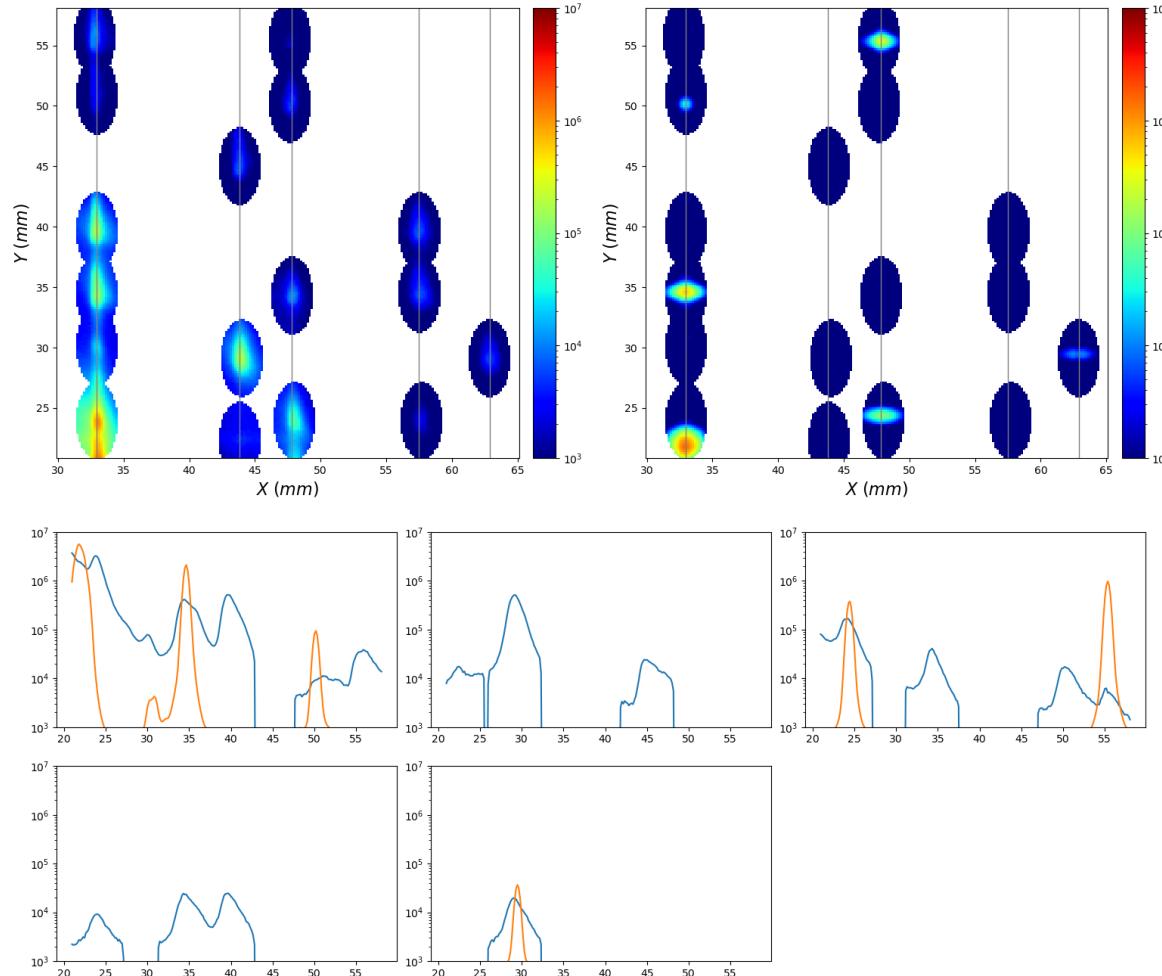
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -3.2
}
```



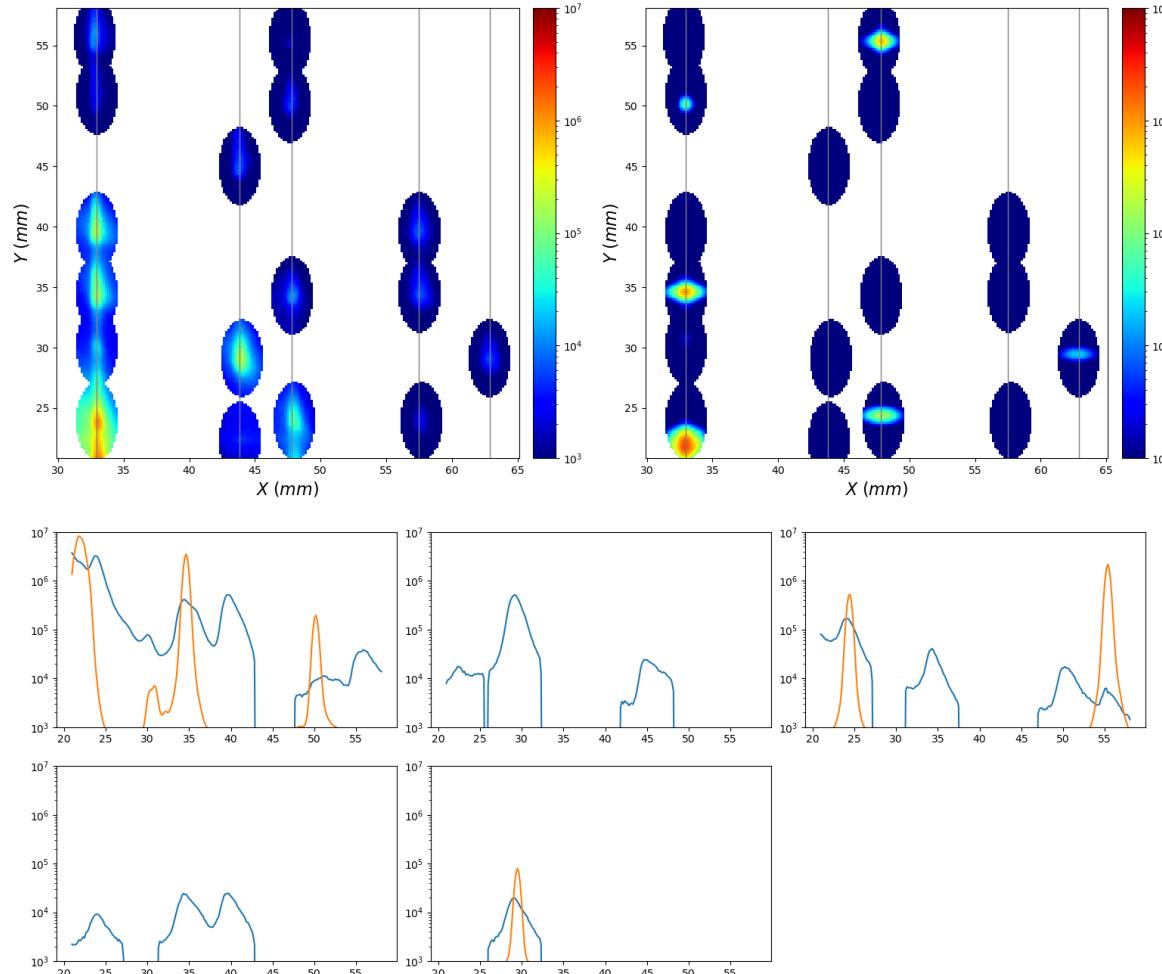
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -3.0
}
```



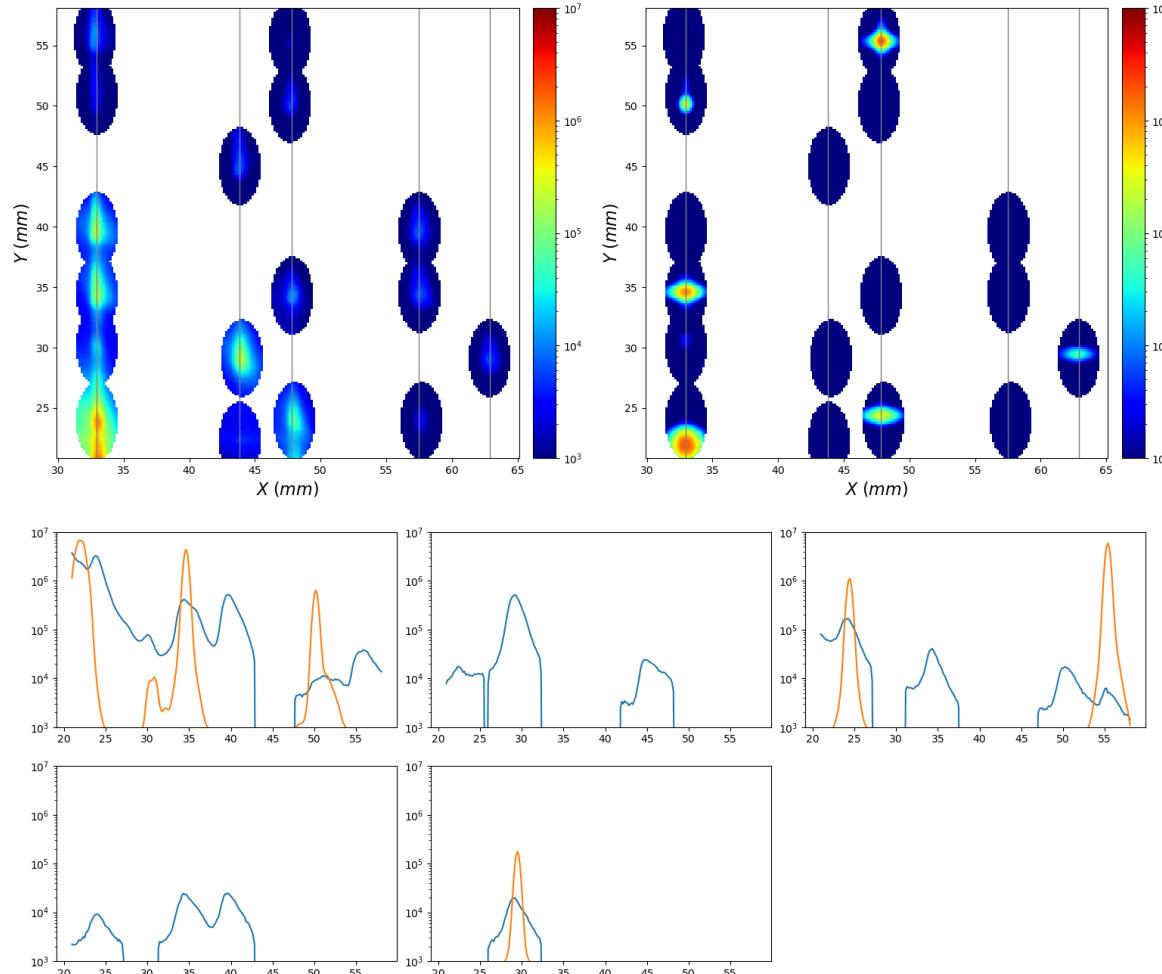
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -2.8
}
```



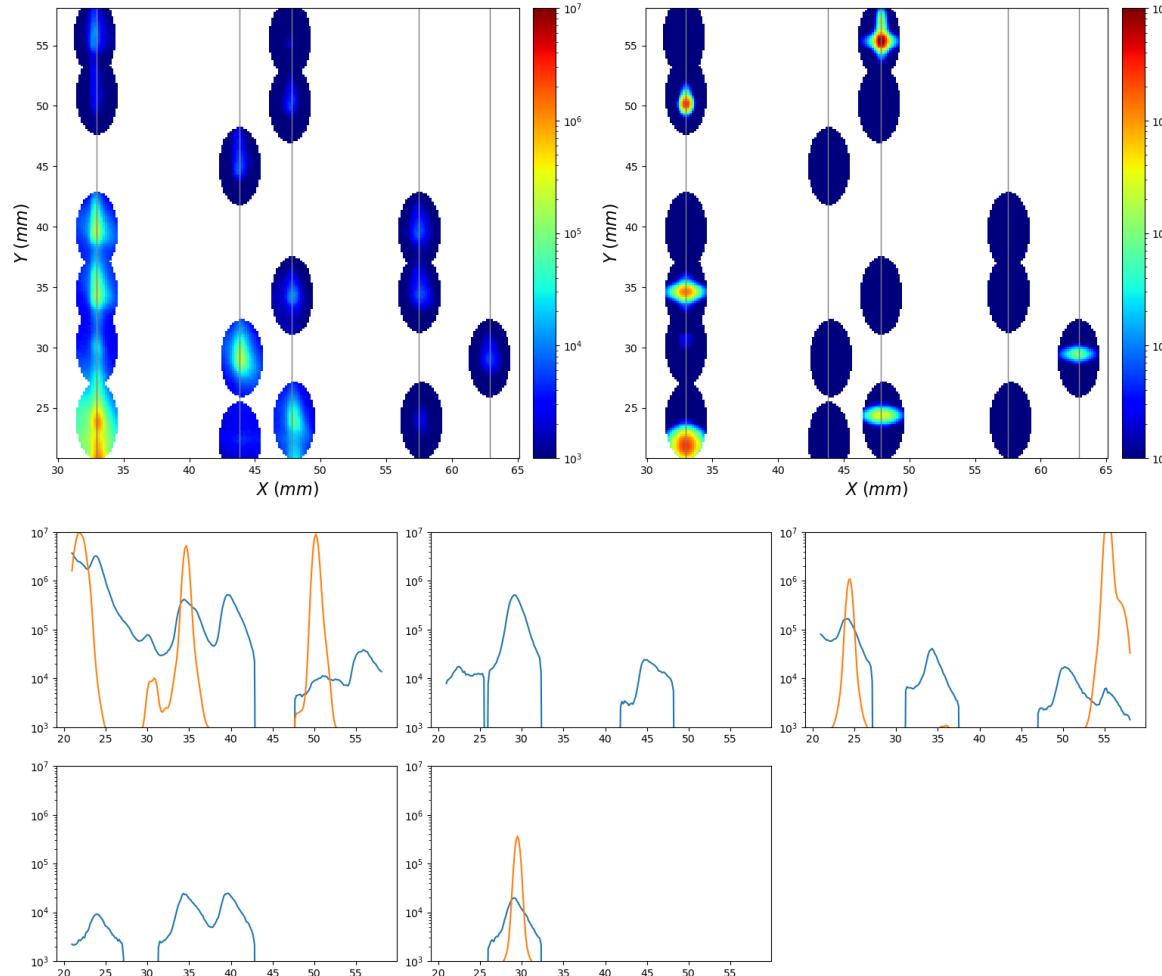
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -2.5999999999999996
}
```



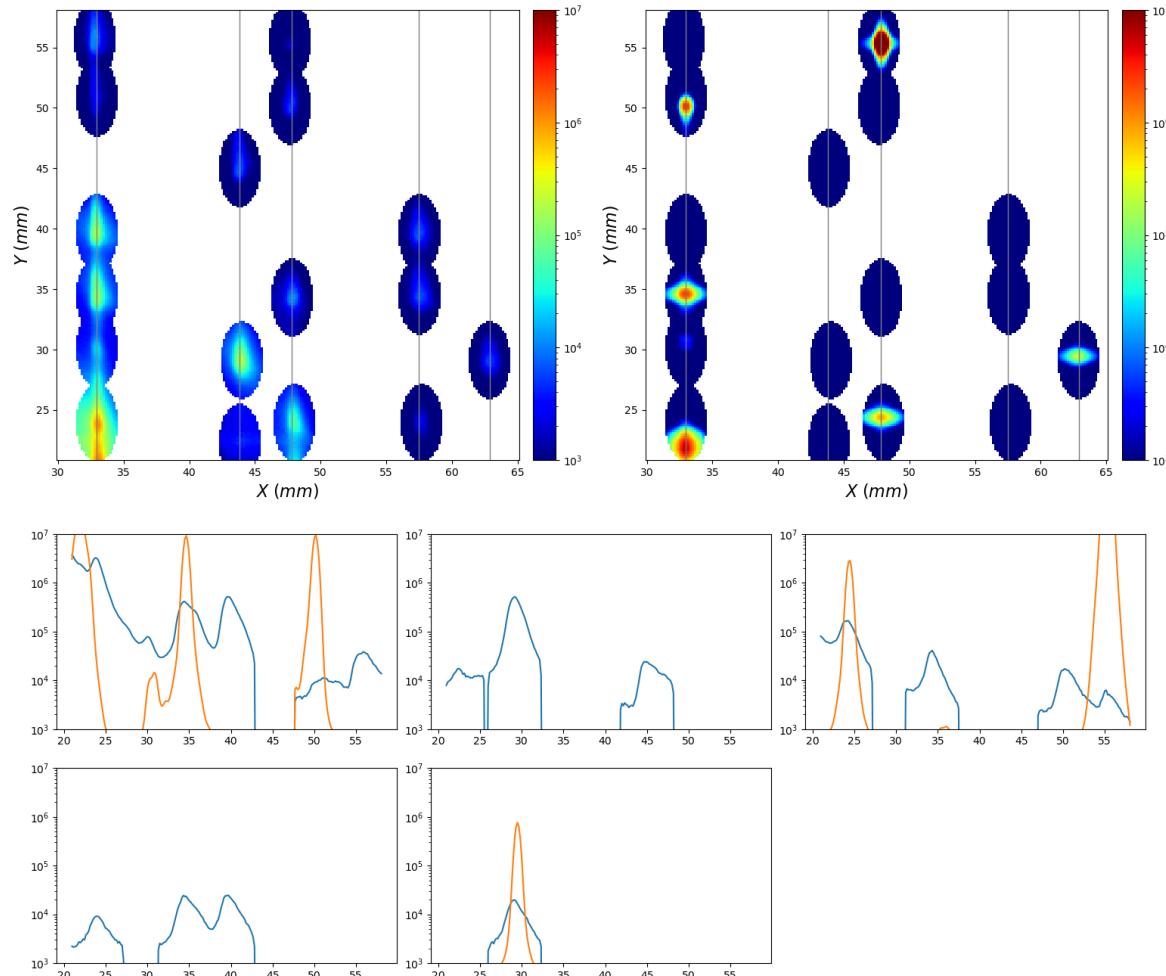
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -2.4
}
```



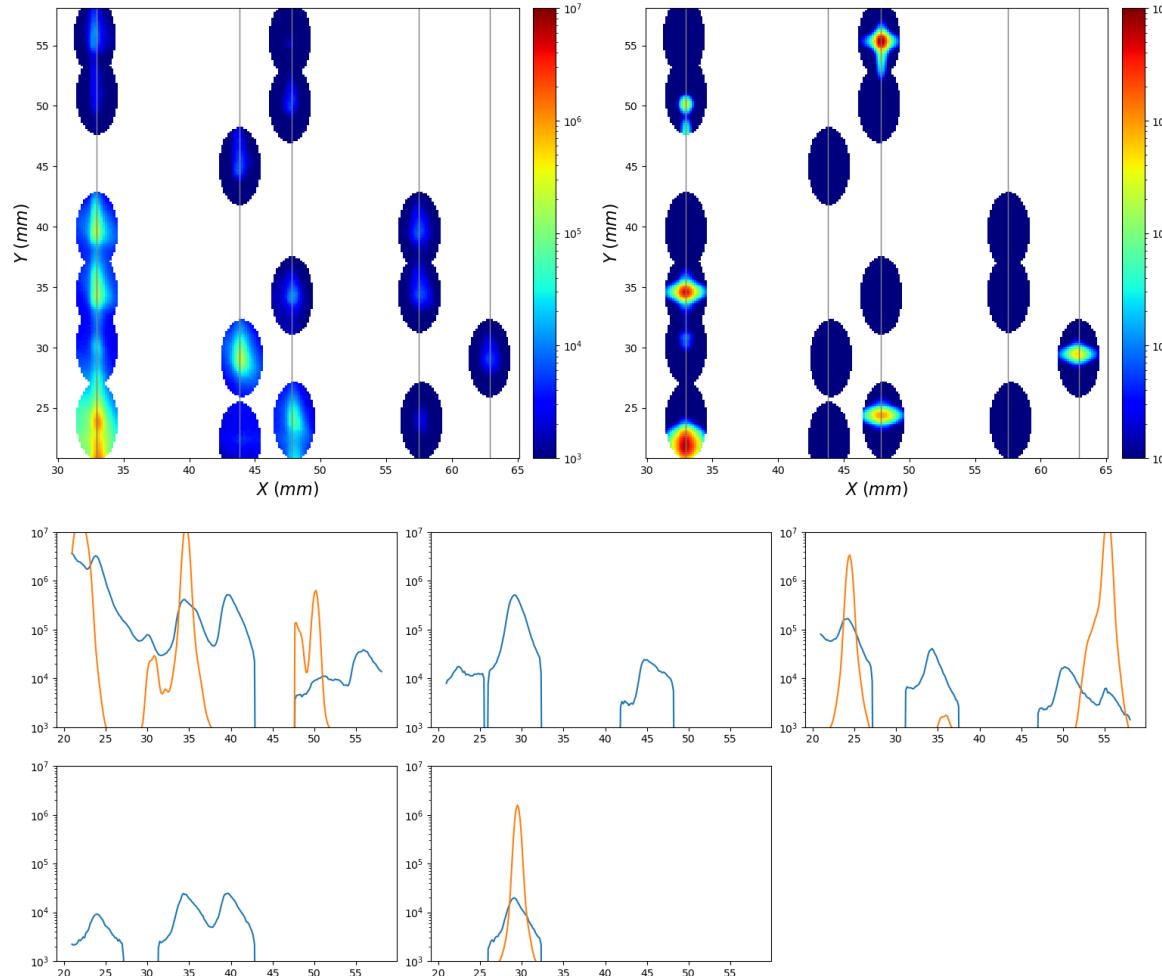
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -2.199999999999997
}
```



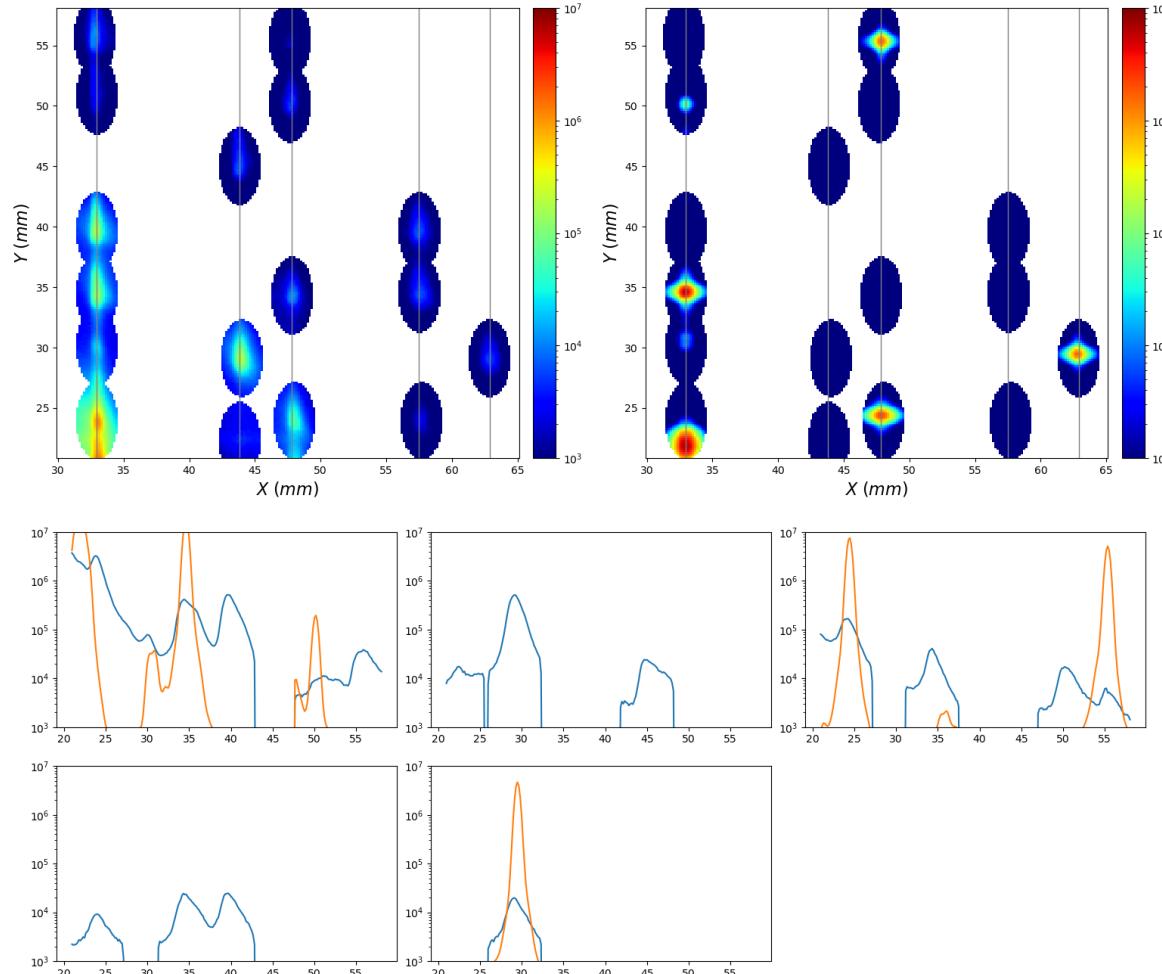
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -2.0
}
```



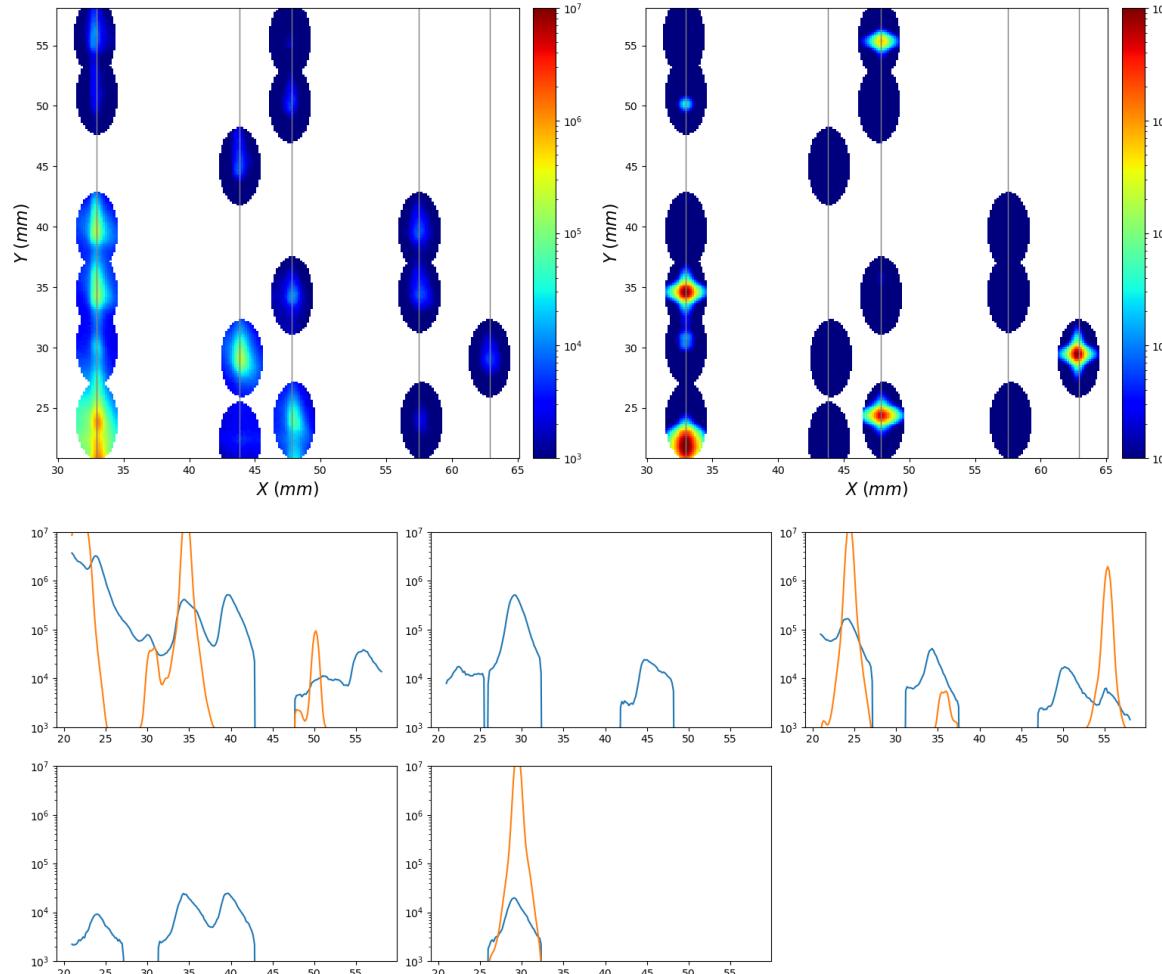
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.799999999999998
}
```



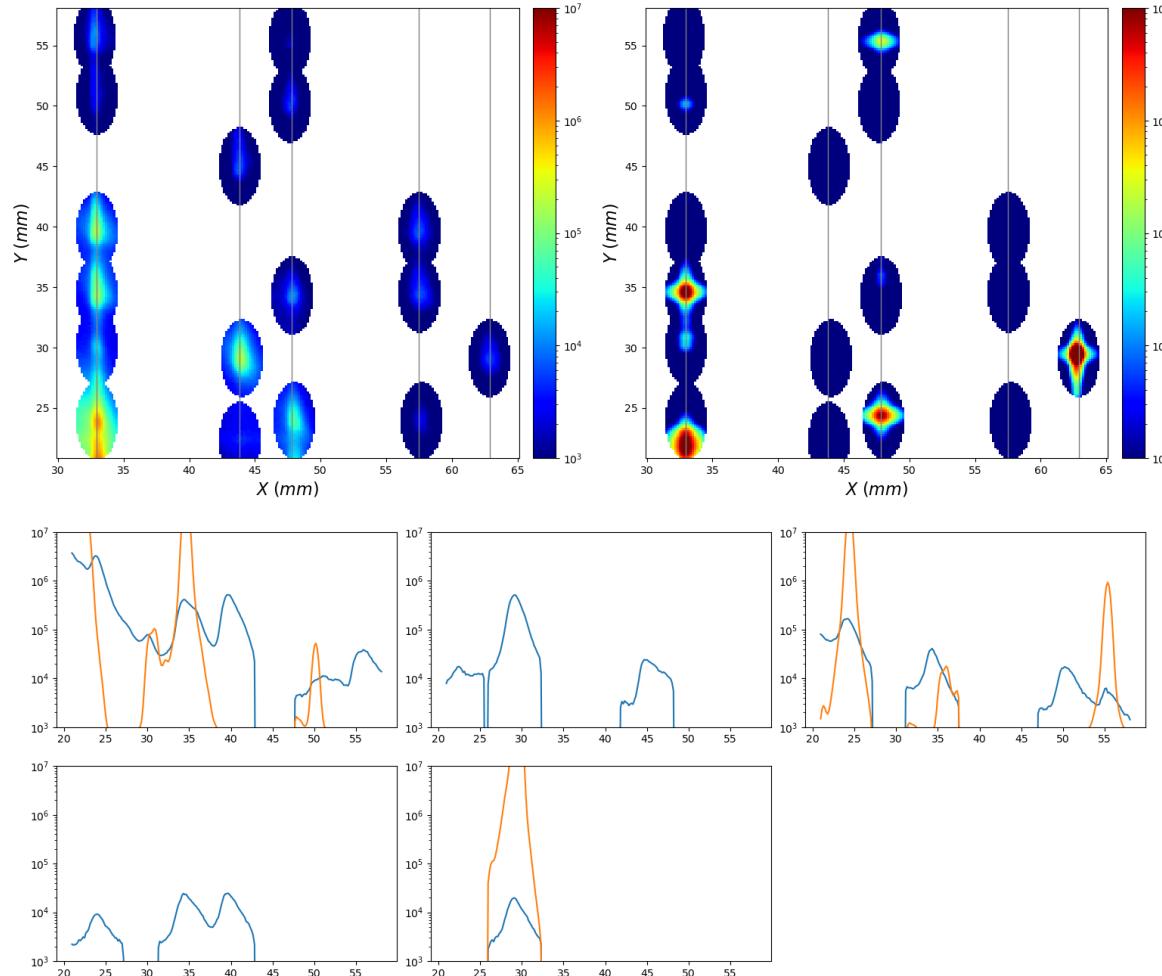
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.5999999999999996
}
```



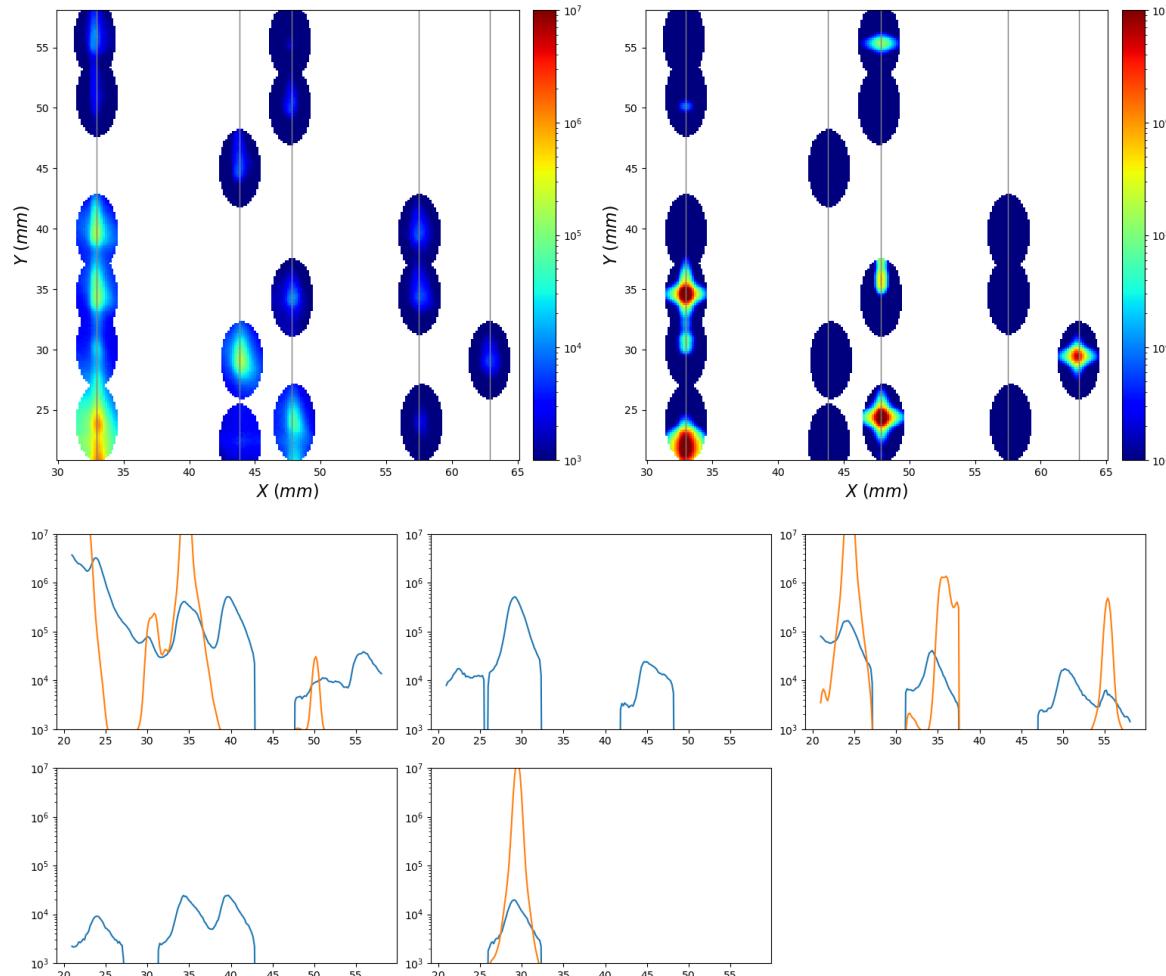
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.4
}
```



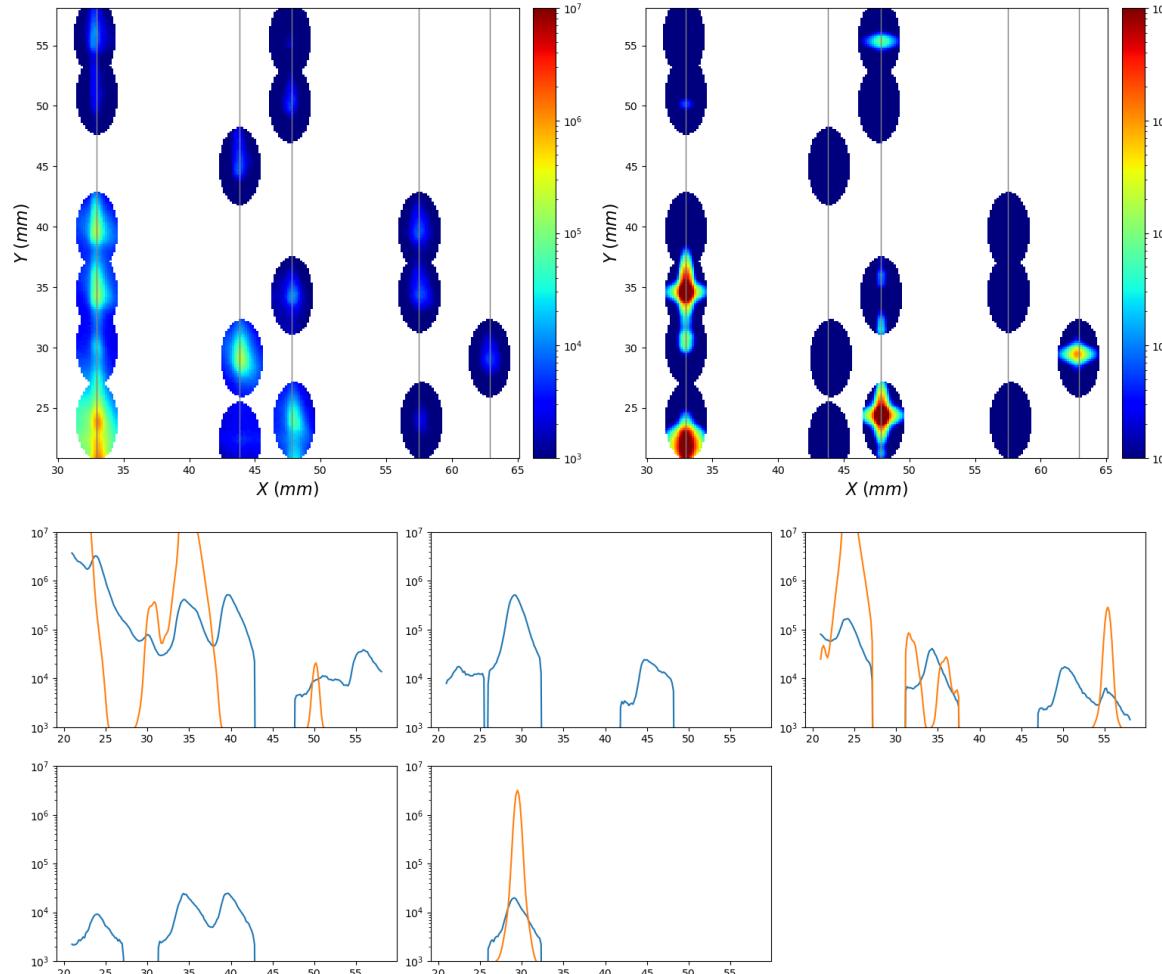
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.199999999999997
}
```



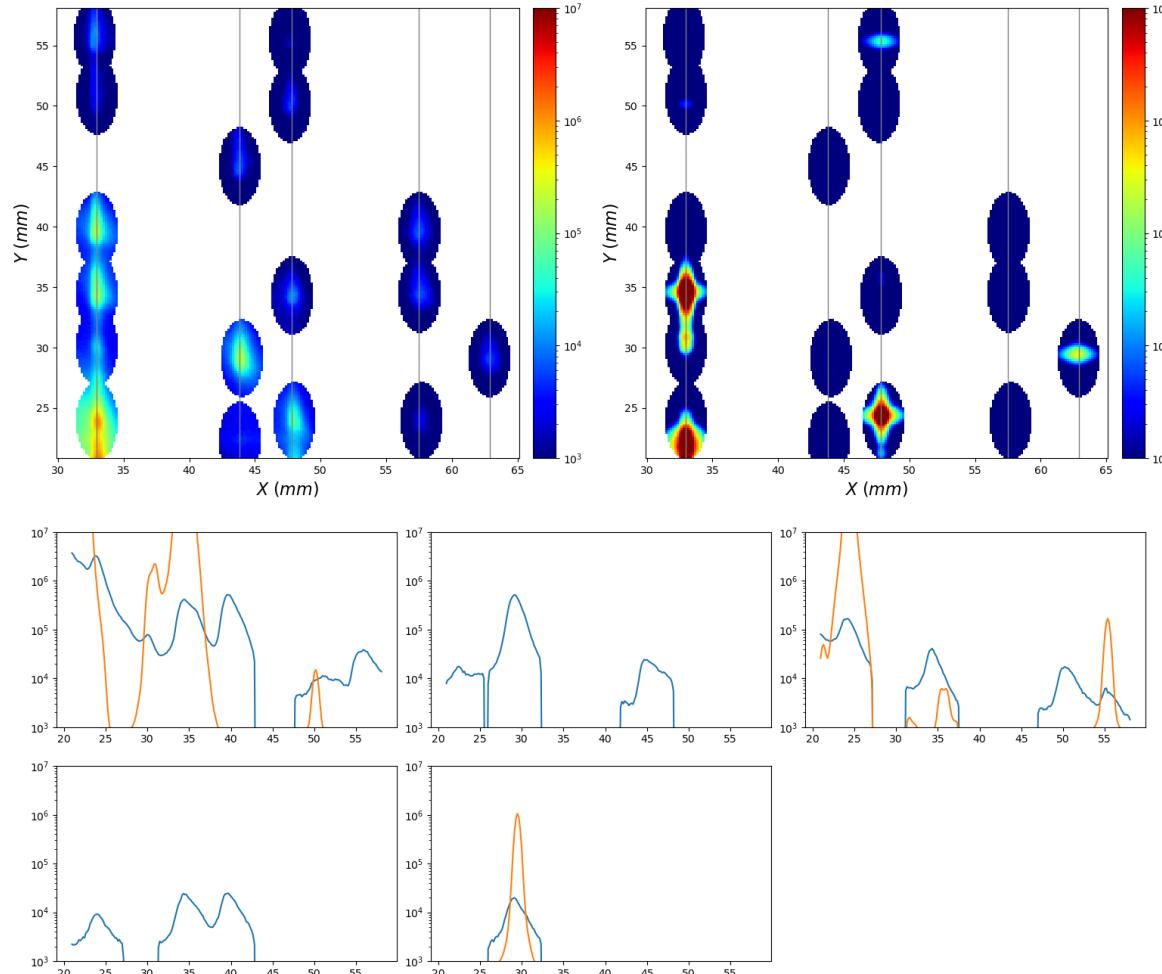
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -1.0
}
```



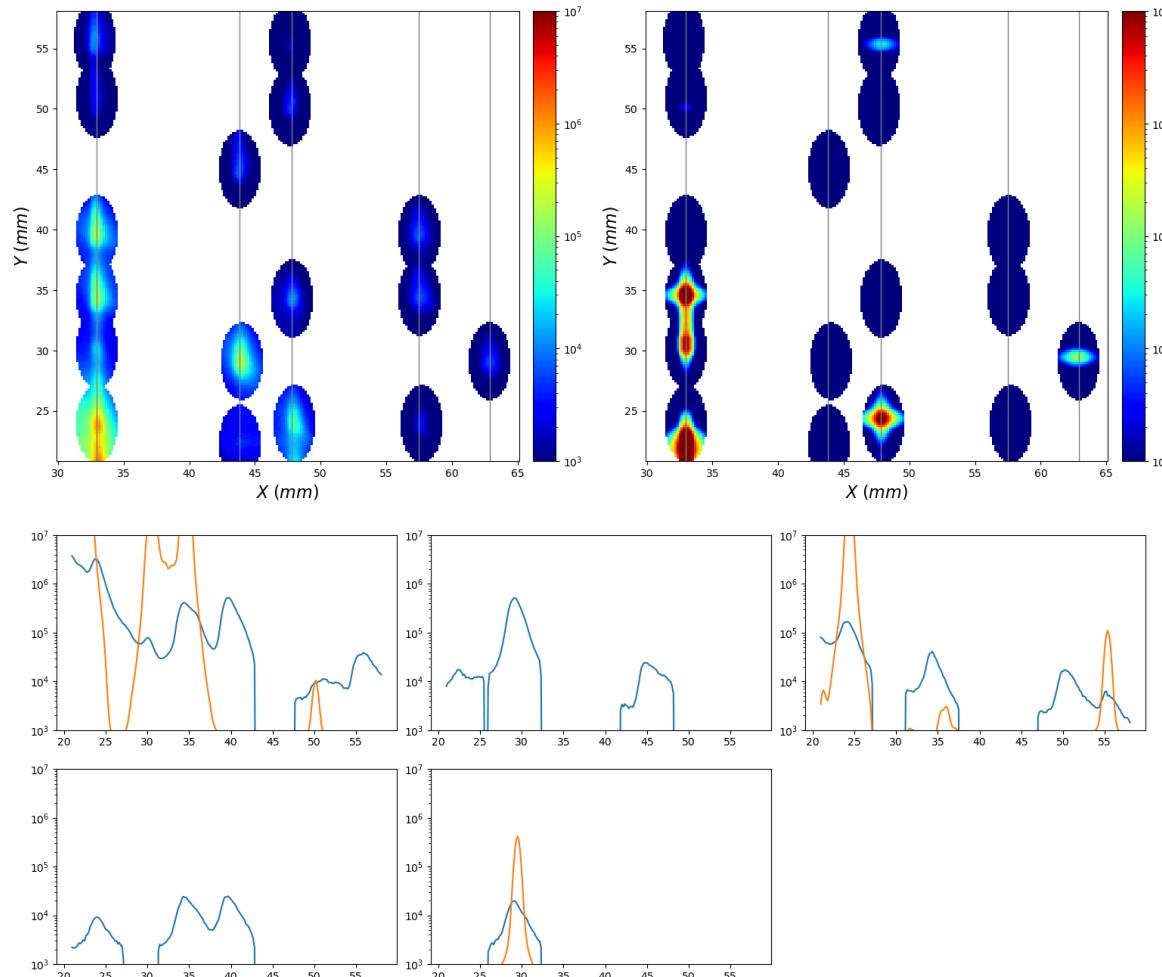
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.7999999999999998
}
```



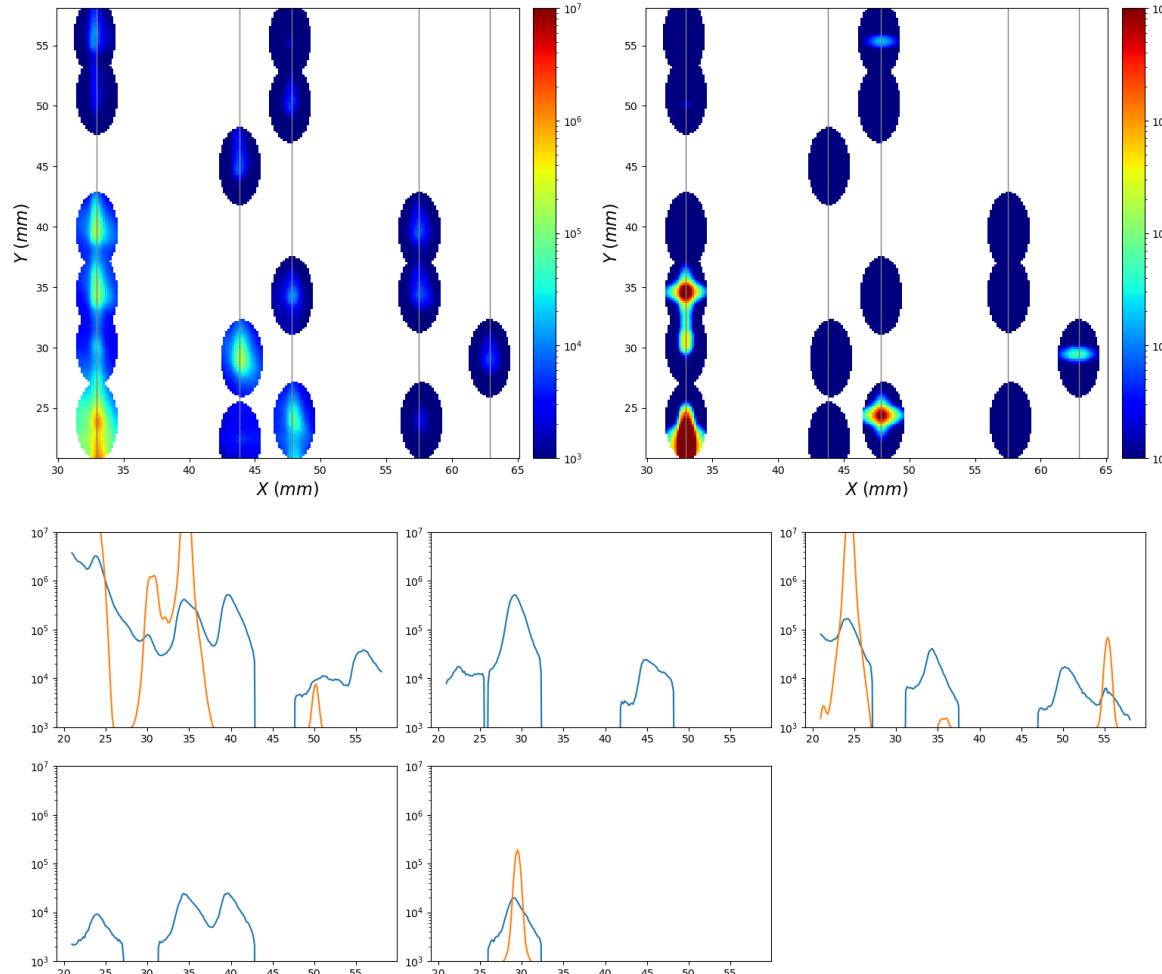
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.5999999999999996
}
```



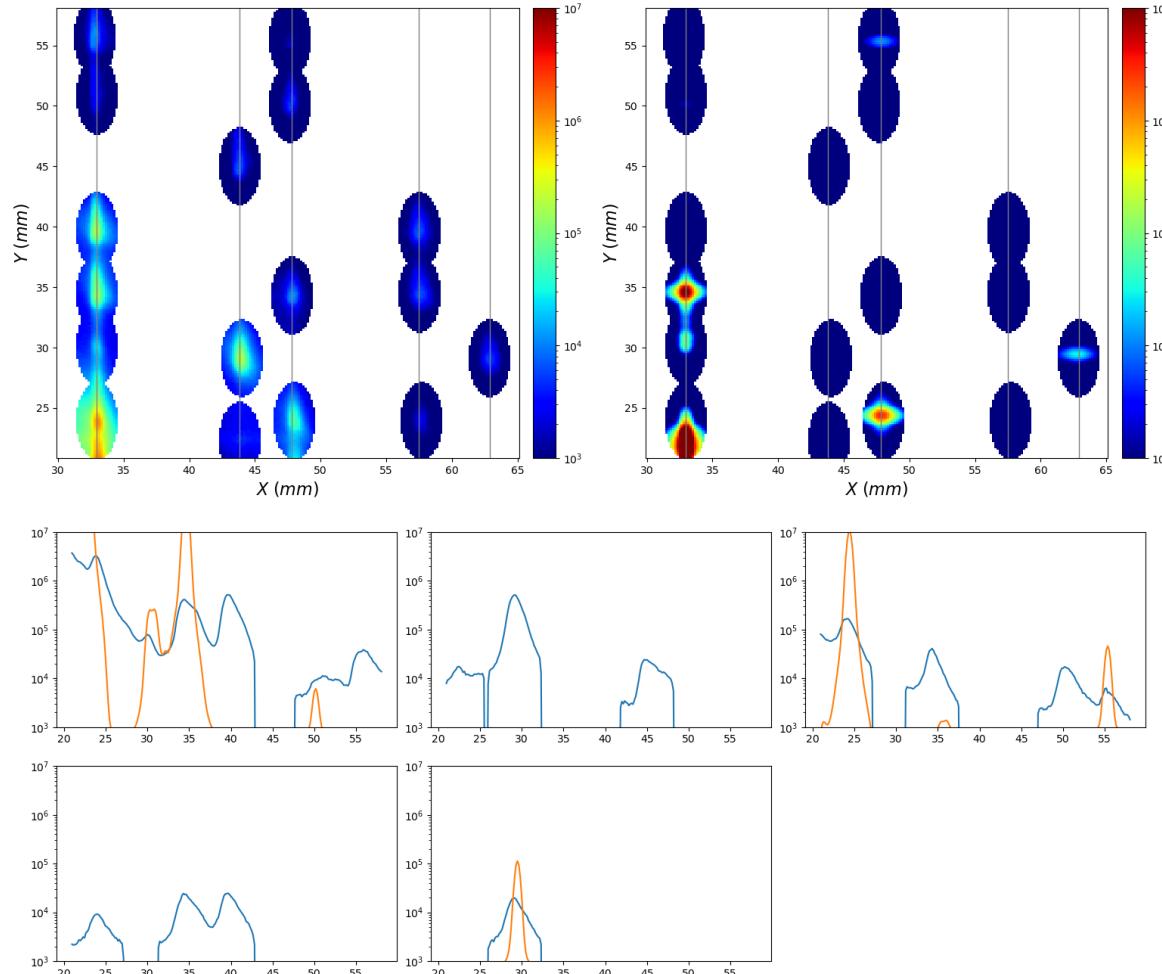
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.3999999999999947
}
```



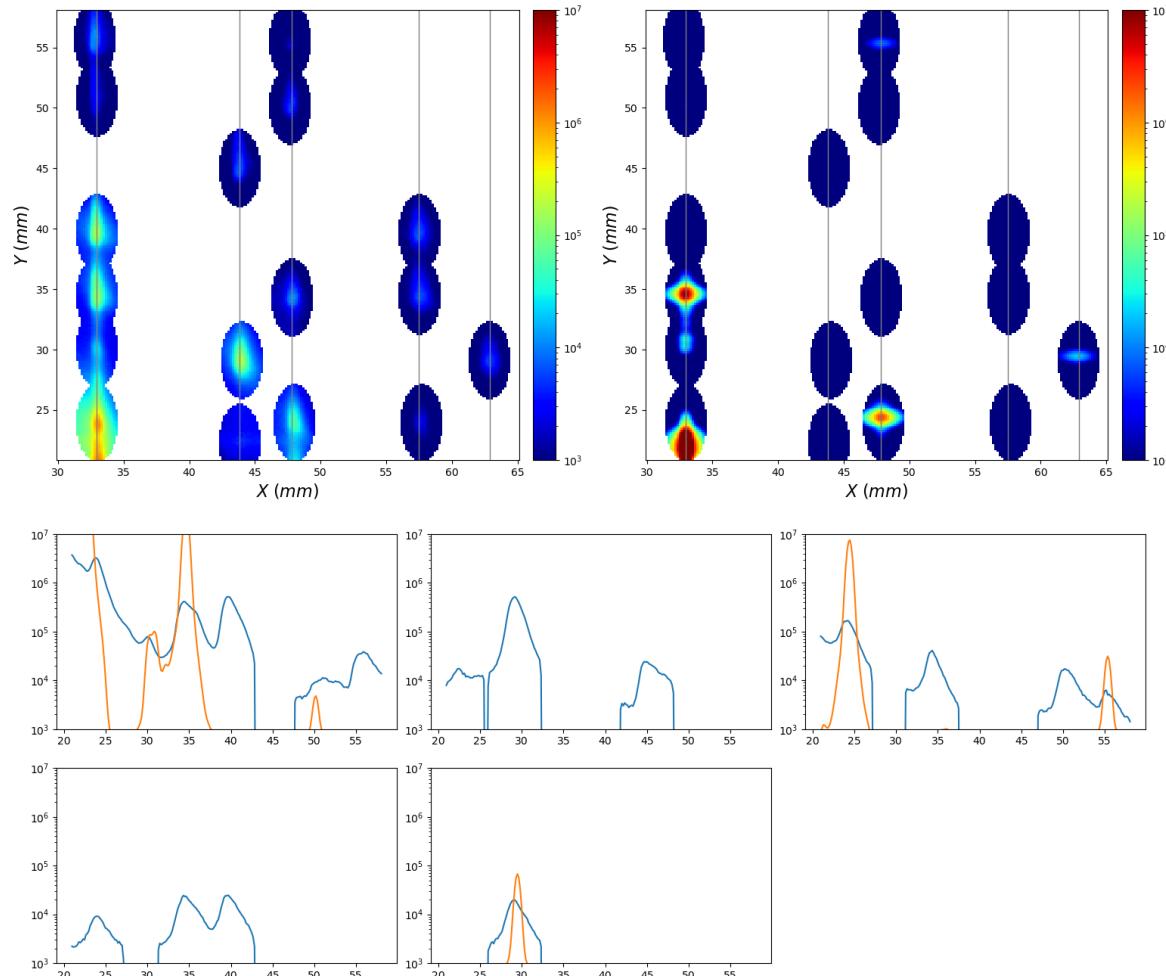
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": -0.1999999999999993
}
```



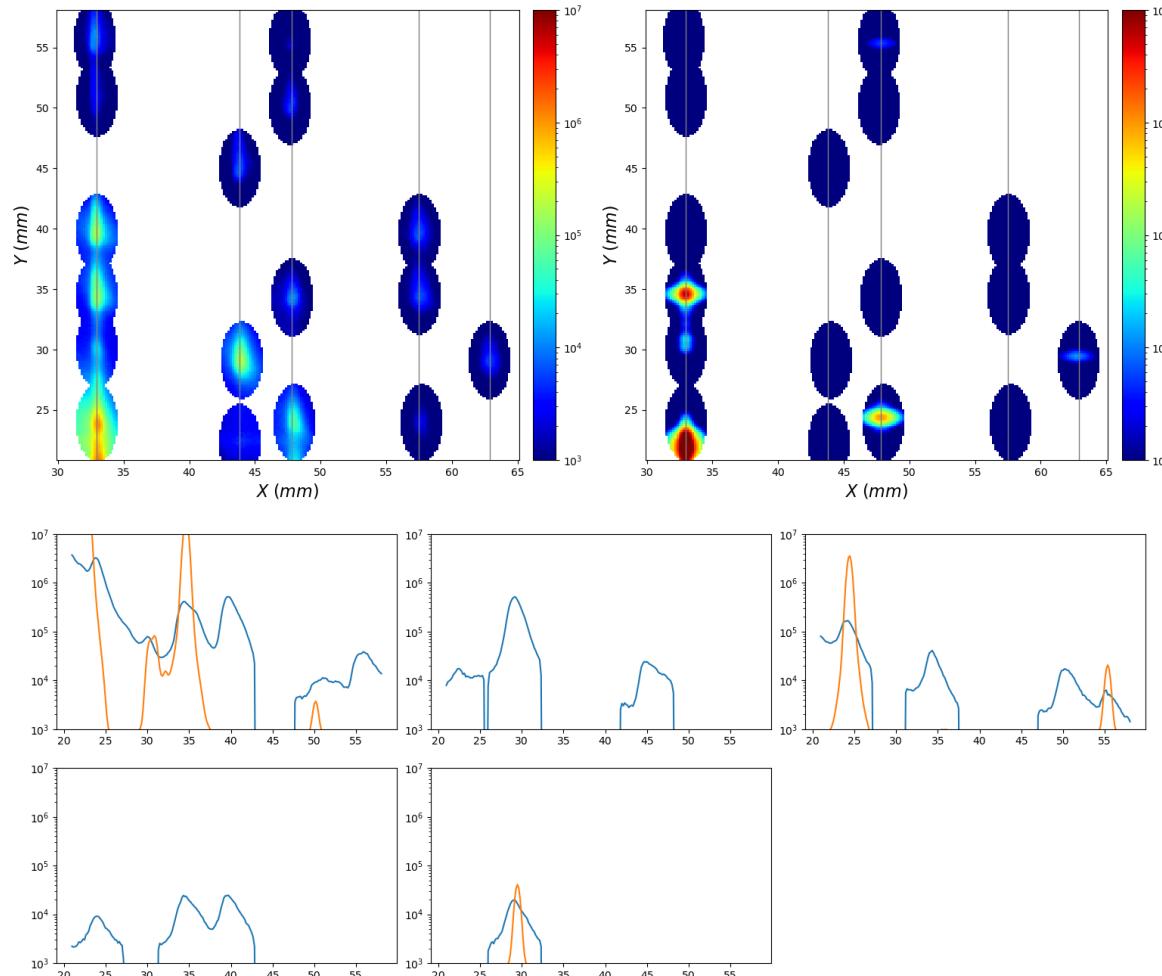
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



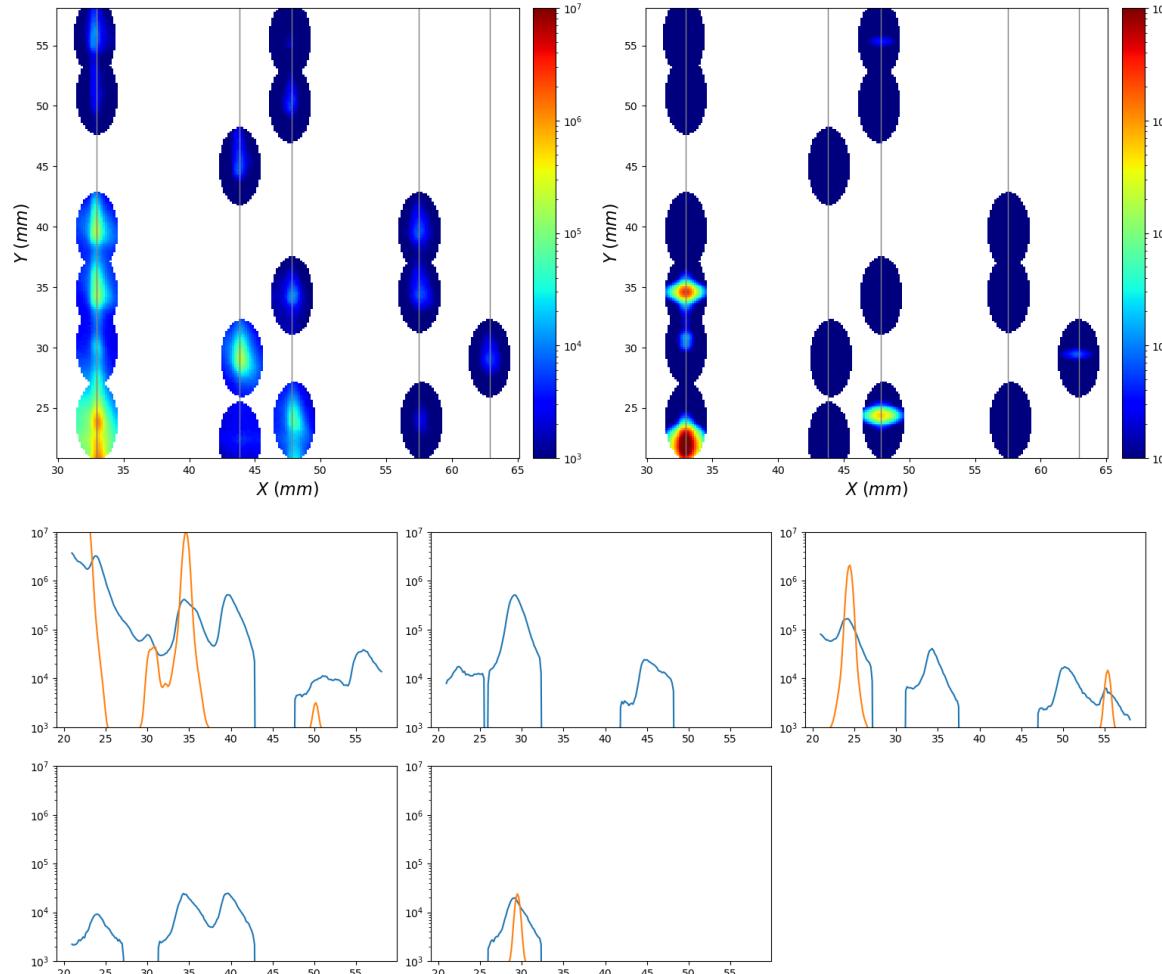
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.20000000000000018
}
```



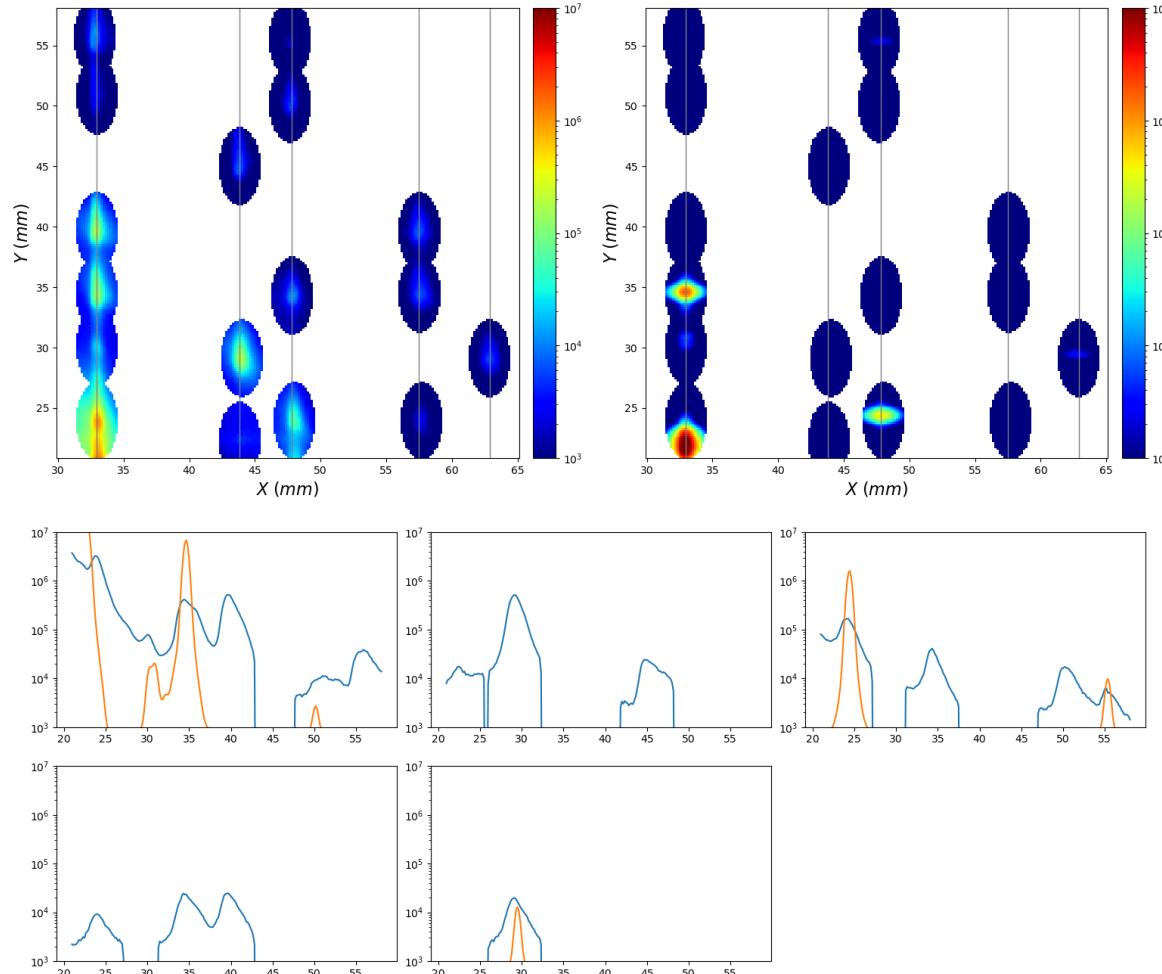
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.4000000000000036
}
```



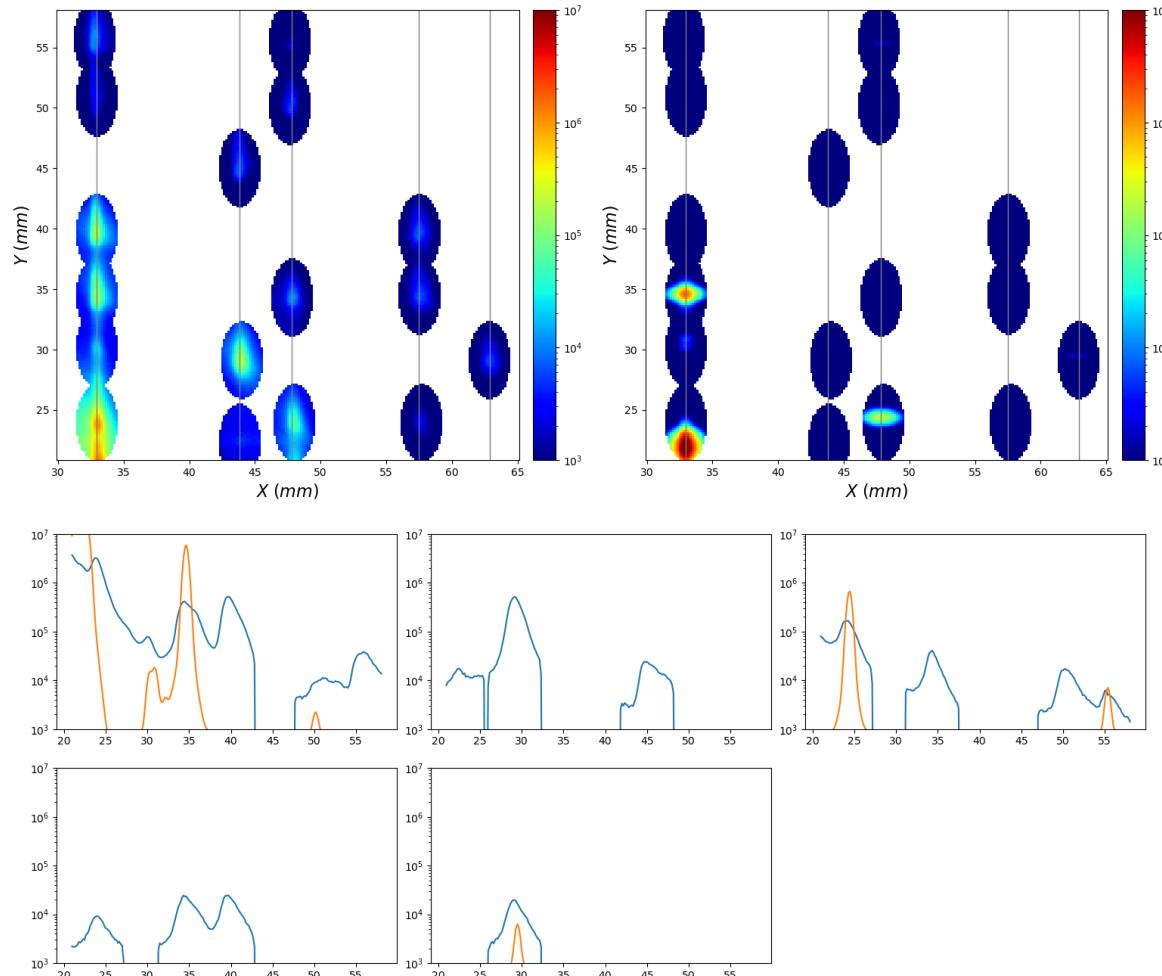
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.6000000000000005
}
```



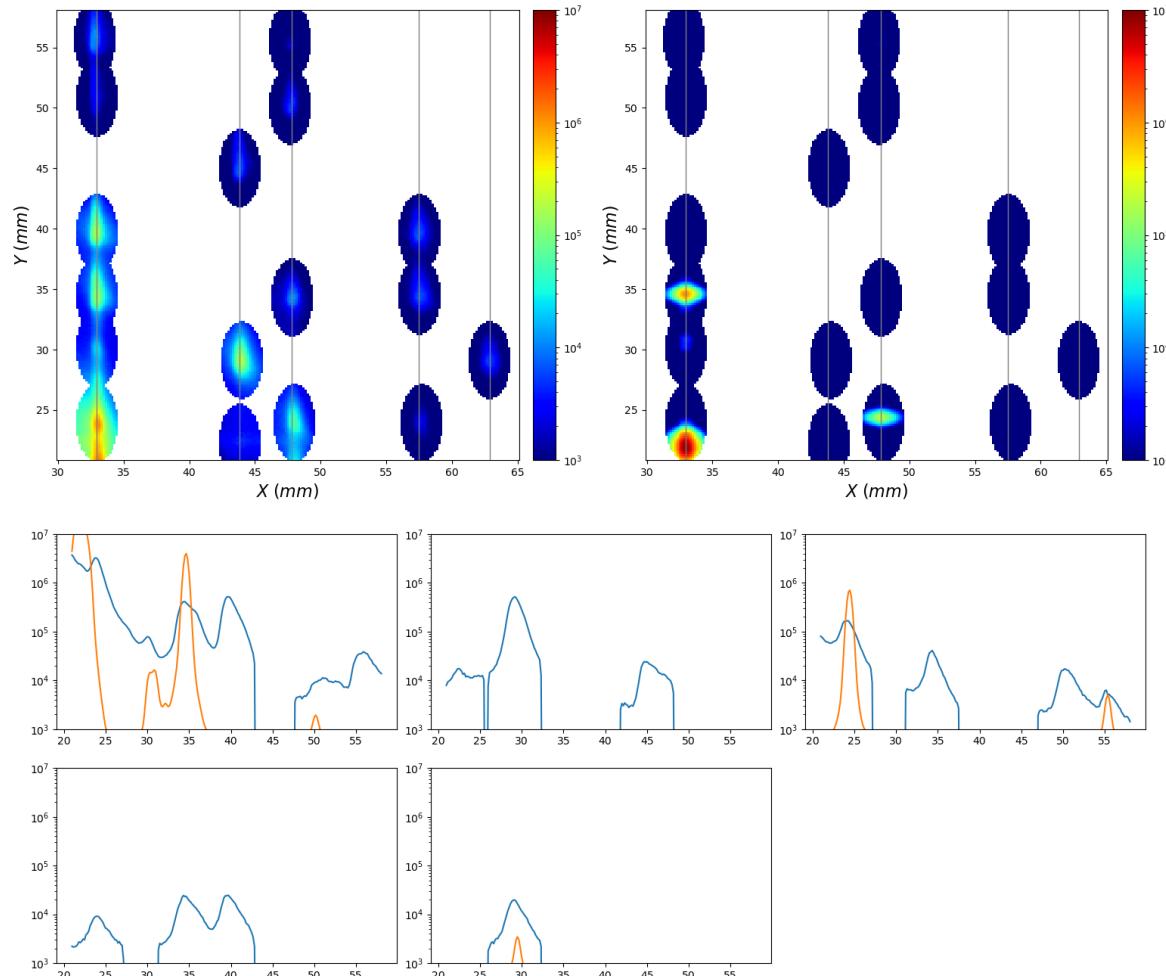
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 0.8000000000000007
}
```



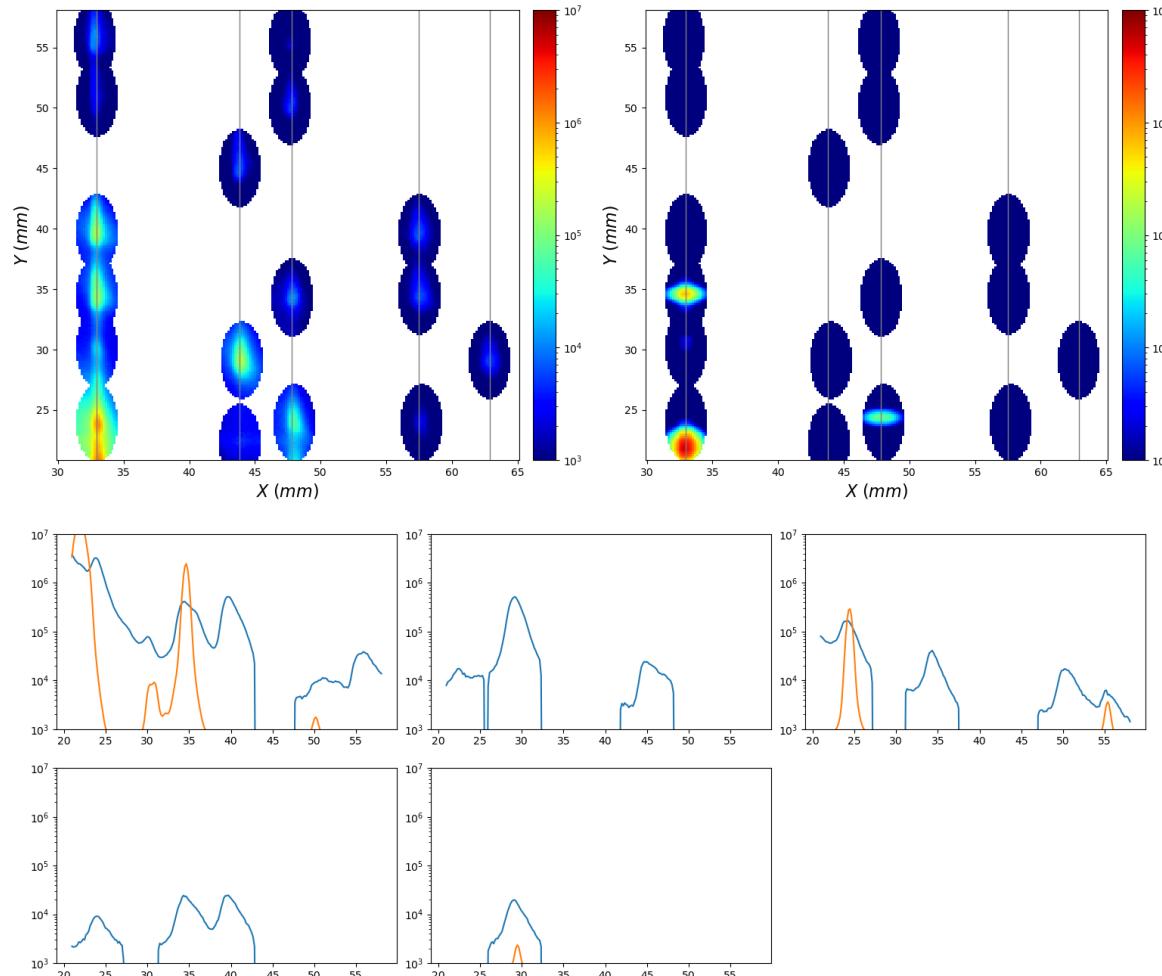
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.0
}
```



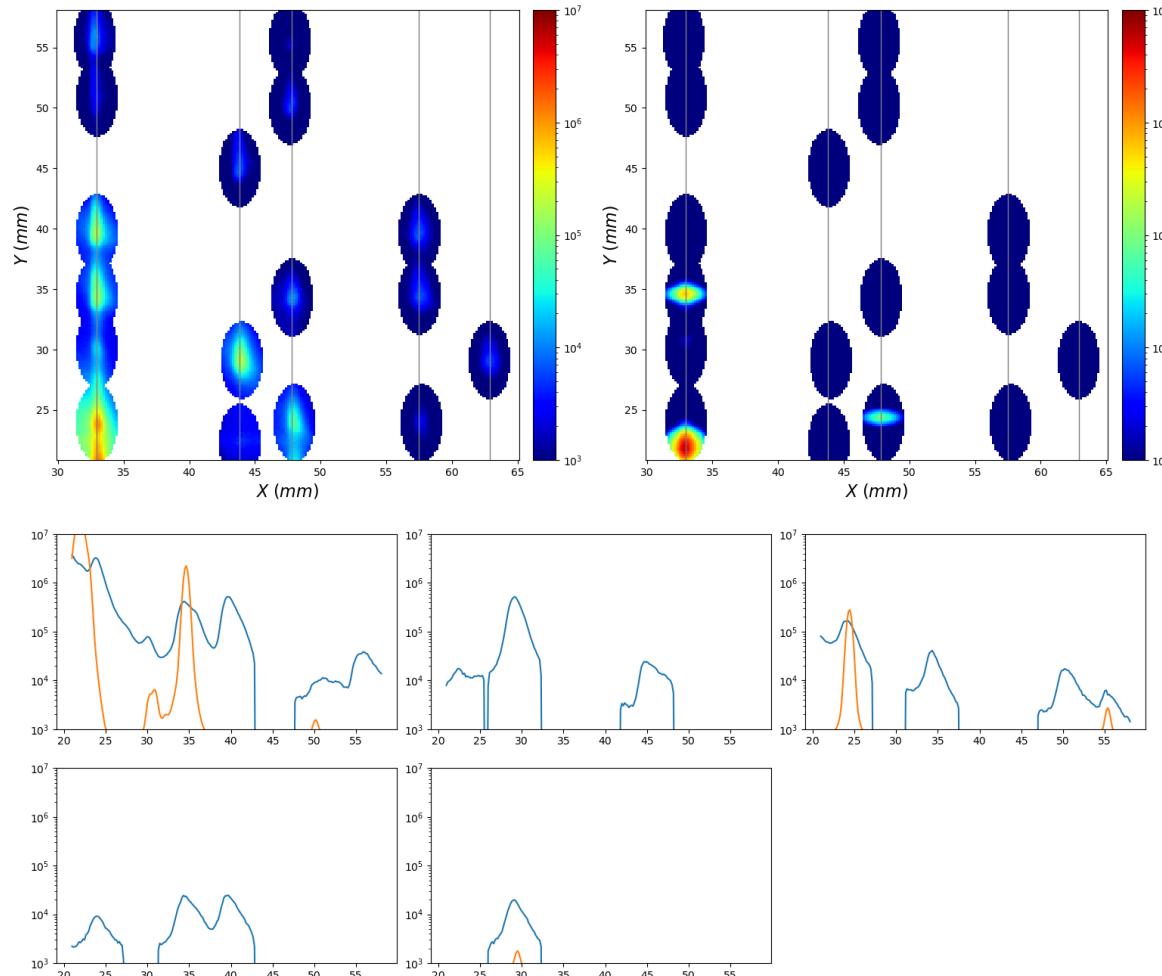
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.2000000000000002
}
```



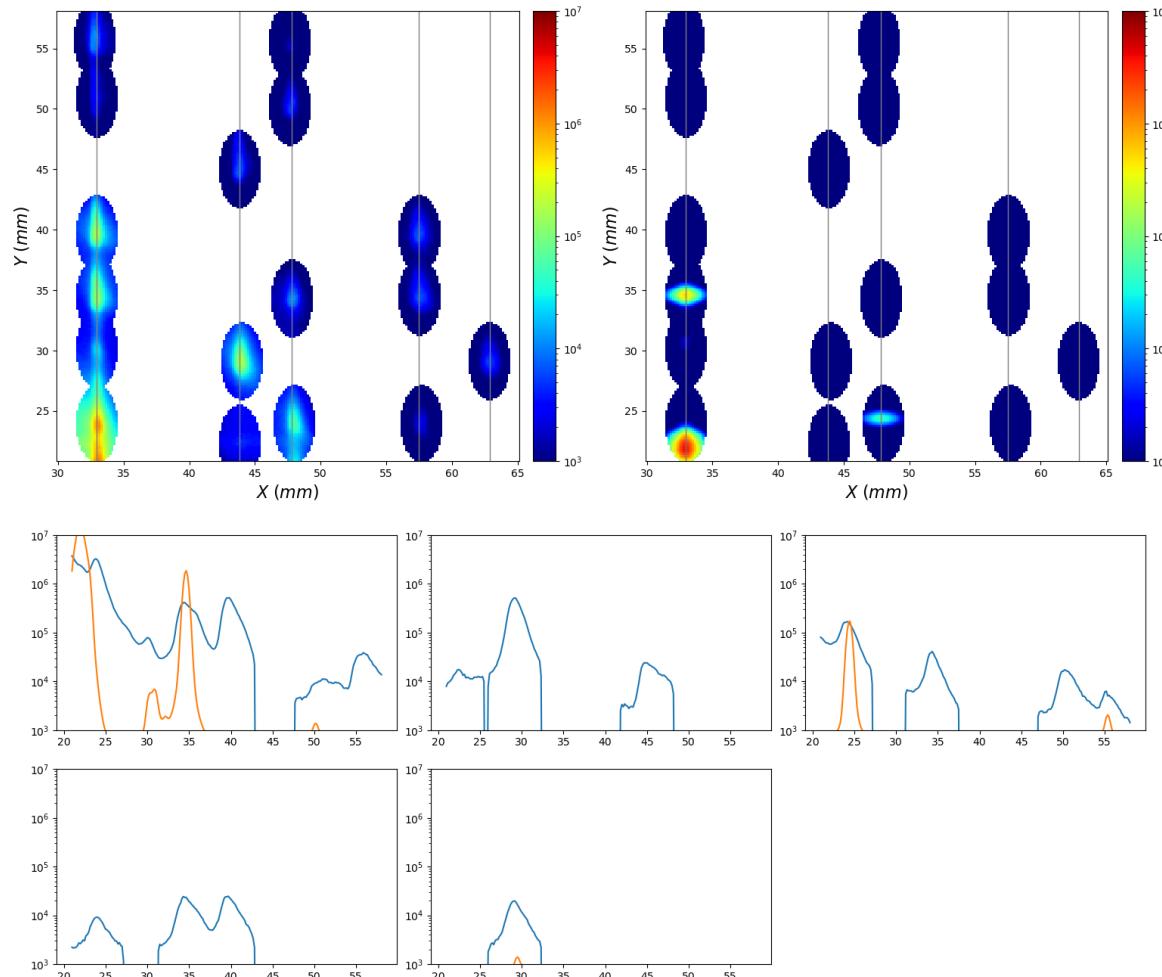
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.4000000000000004
}
```



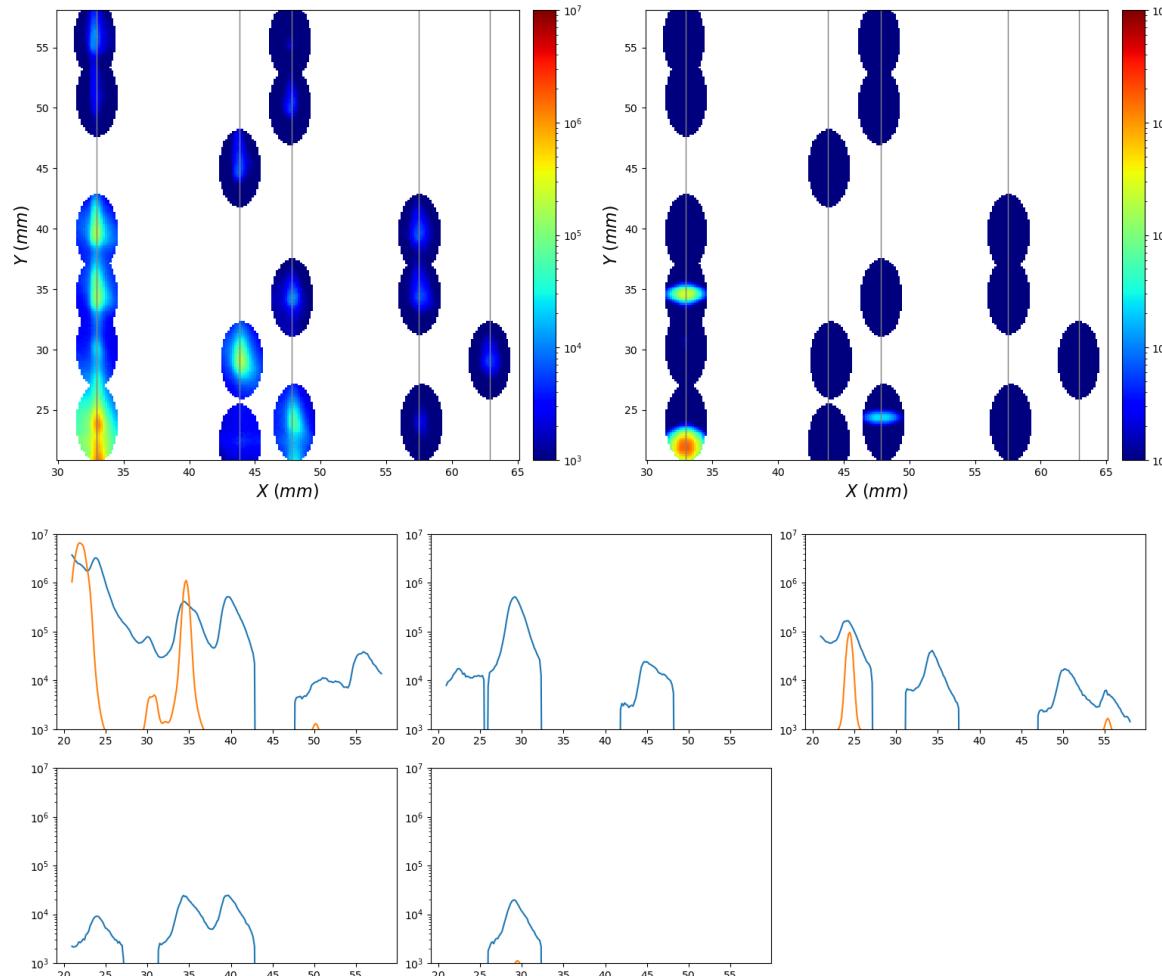
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.6000000000000005
}
```



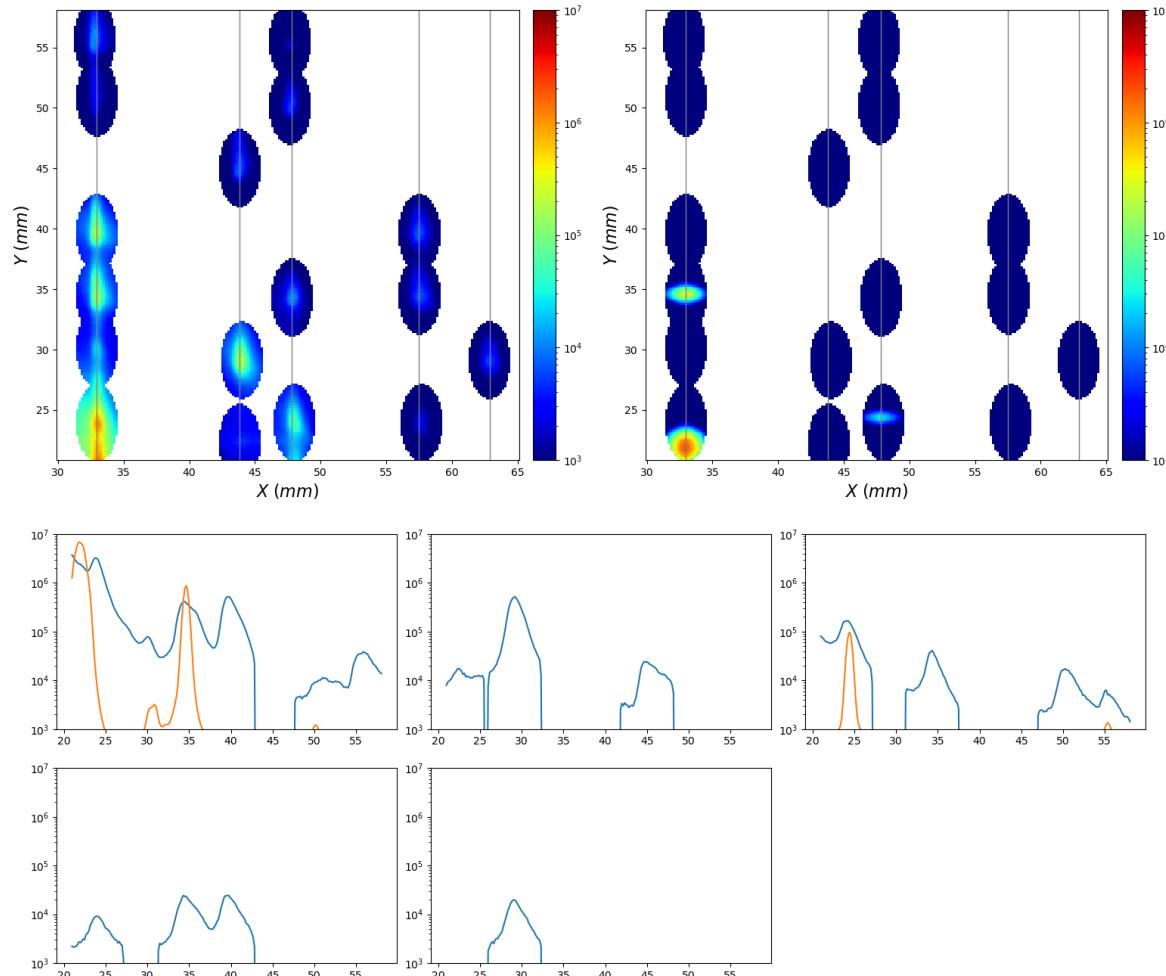
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 1.8000000000000007
}
```



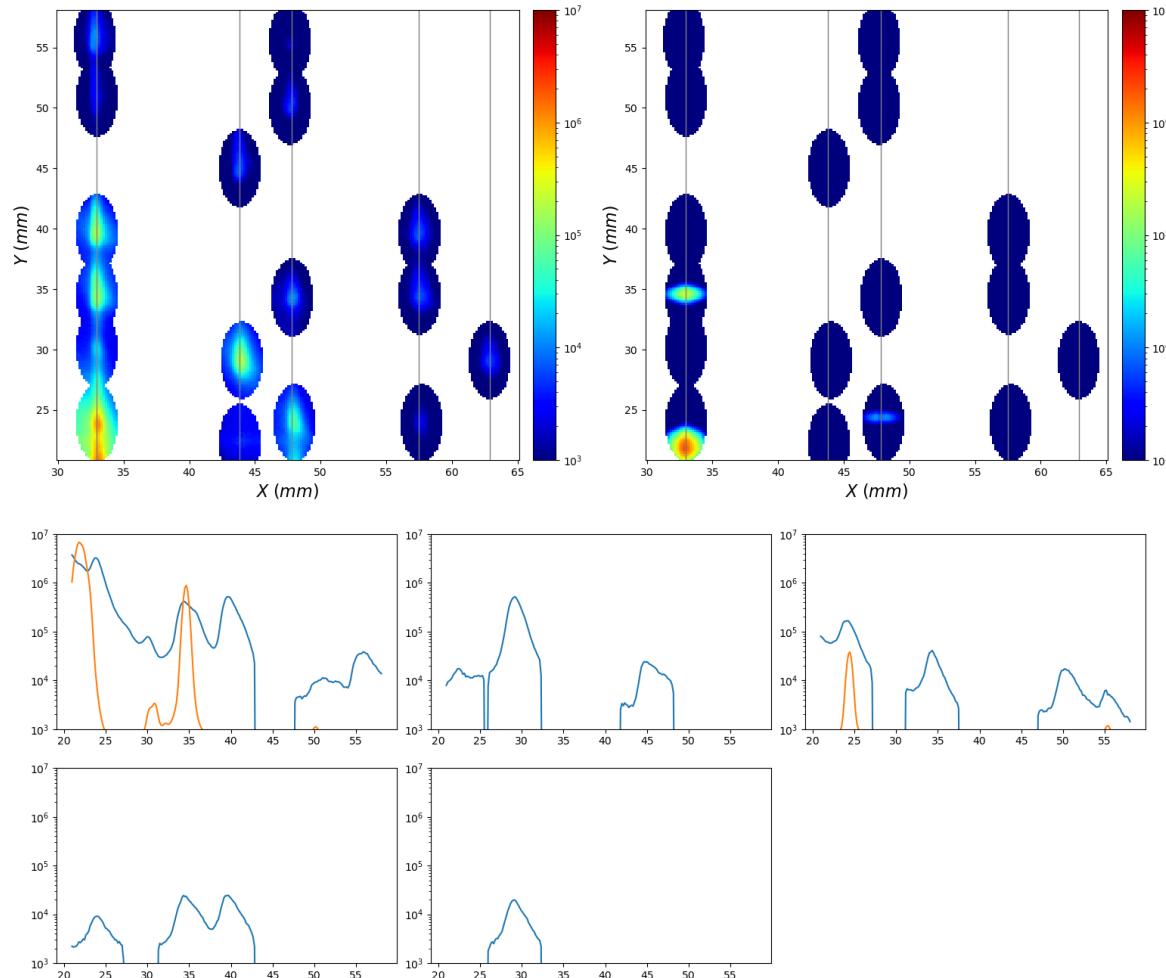
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 2.0
}
```



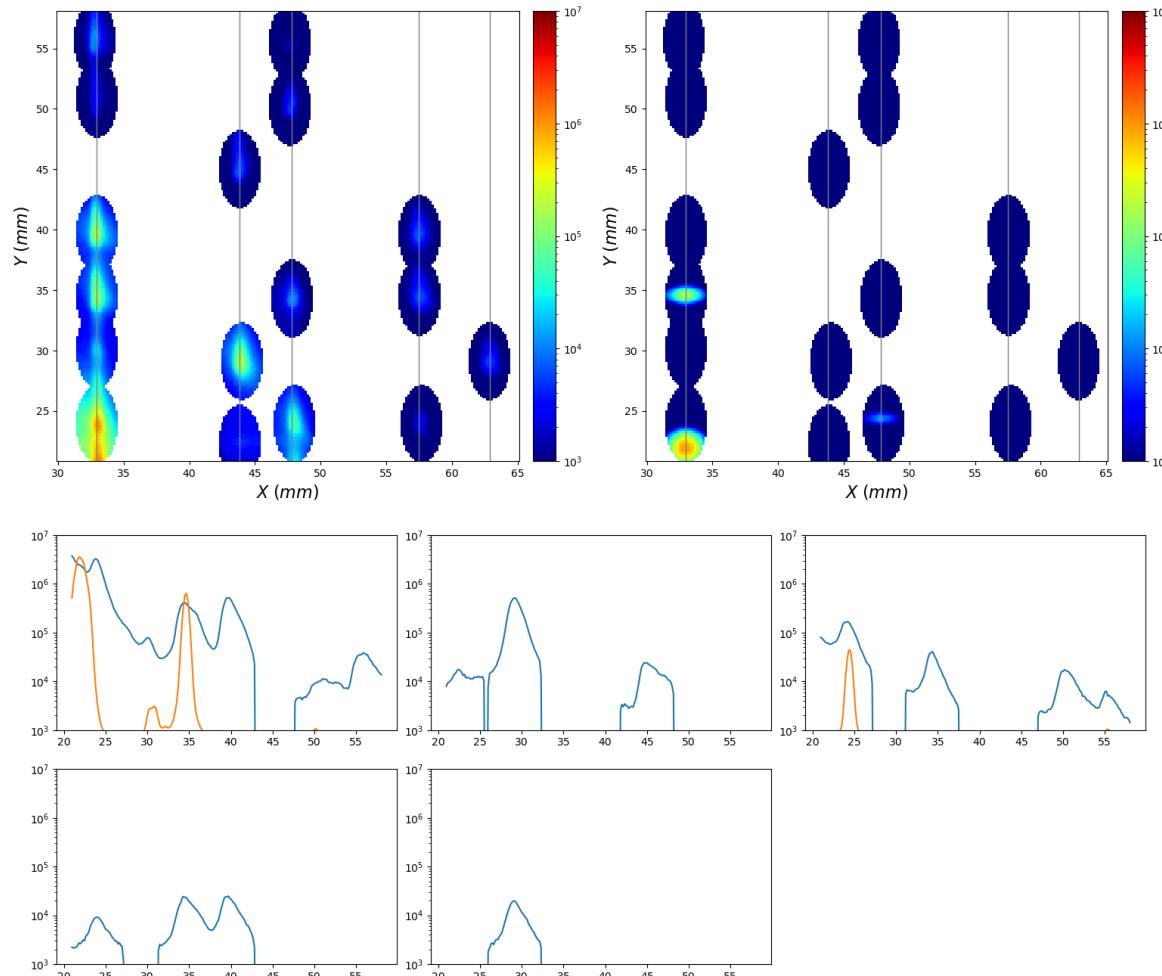
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 2.2
}
```



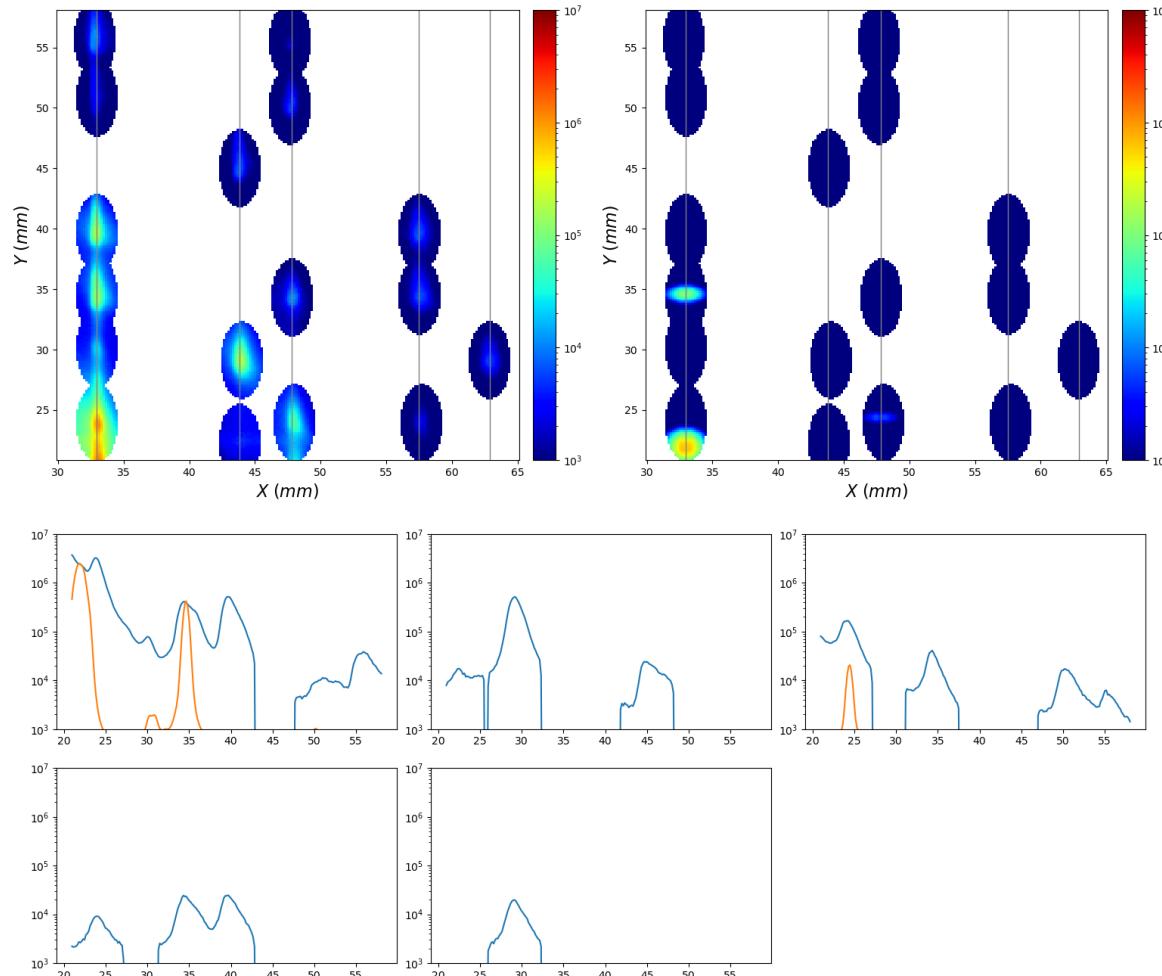
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 2.4000000000000004
}
```



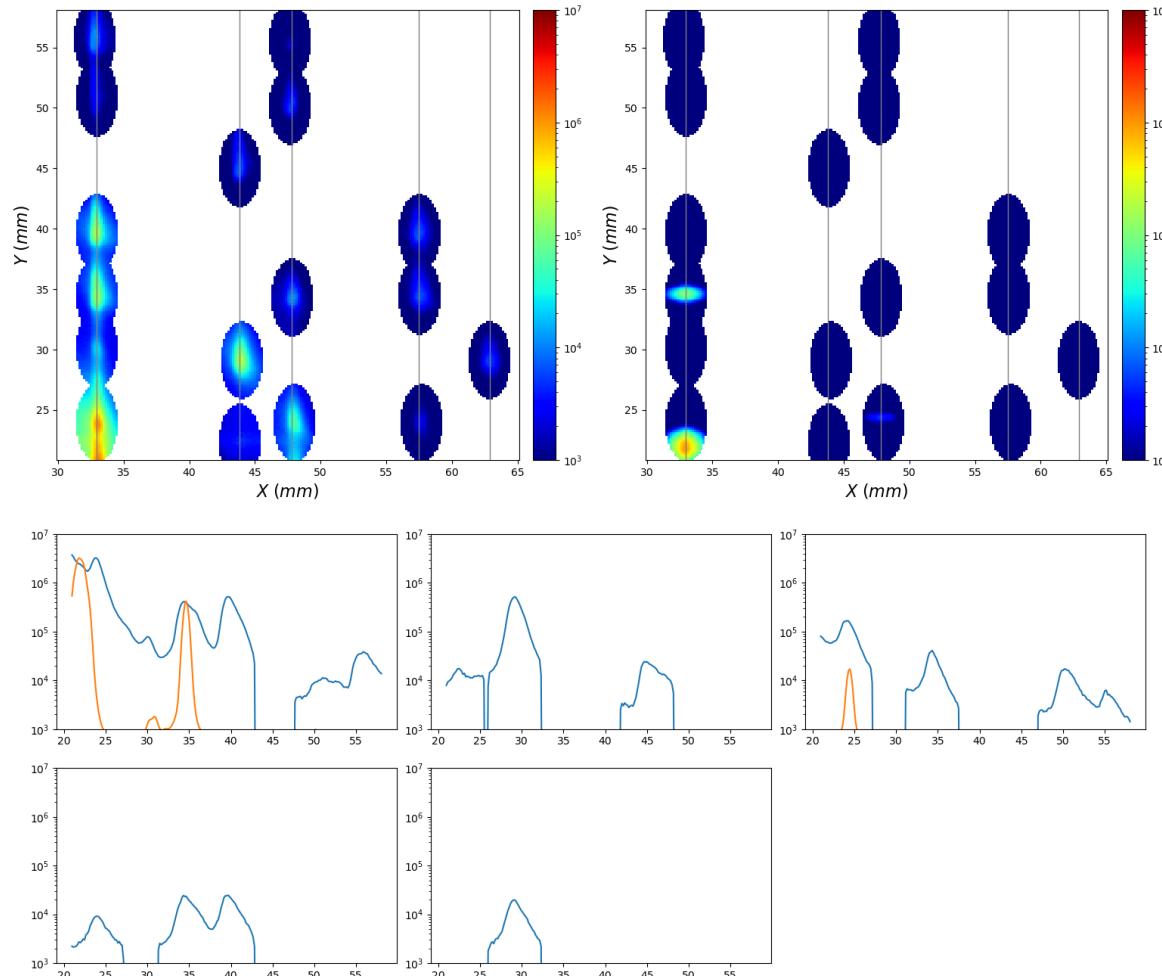
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 2.6000000000000005
}
```



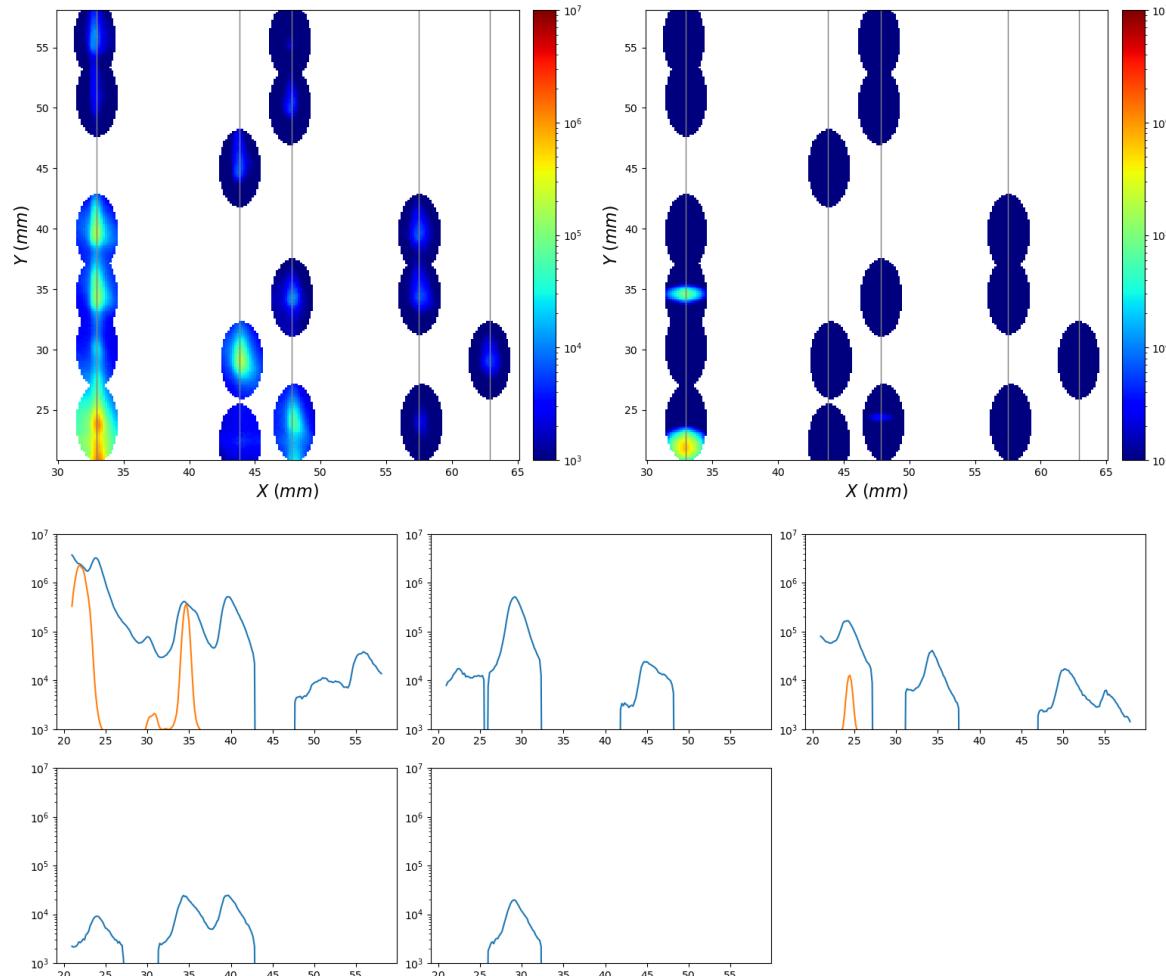
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 2.8000000000000007
}
```



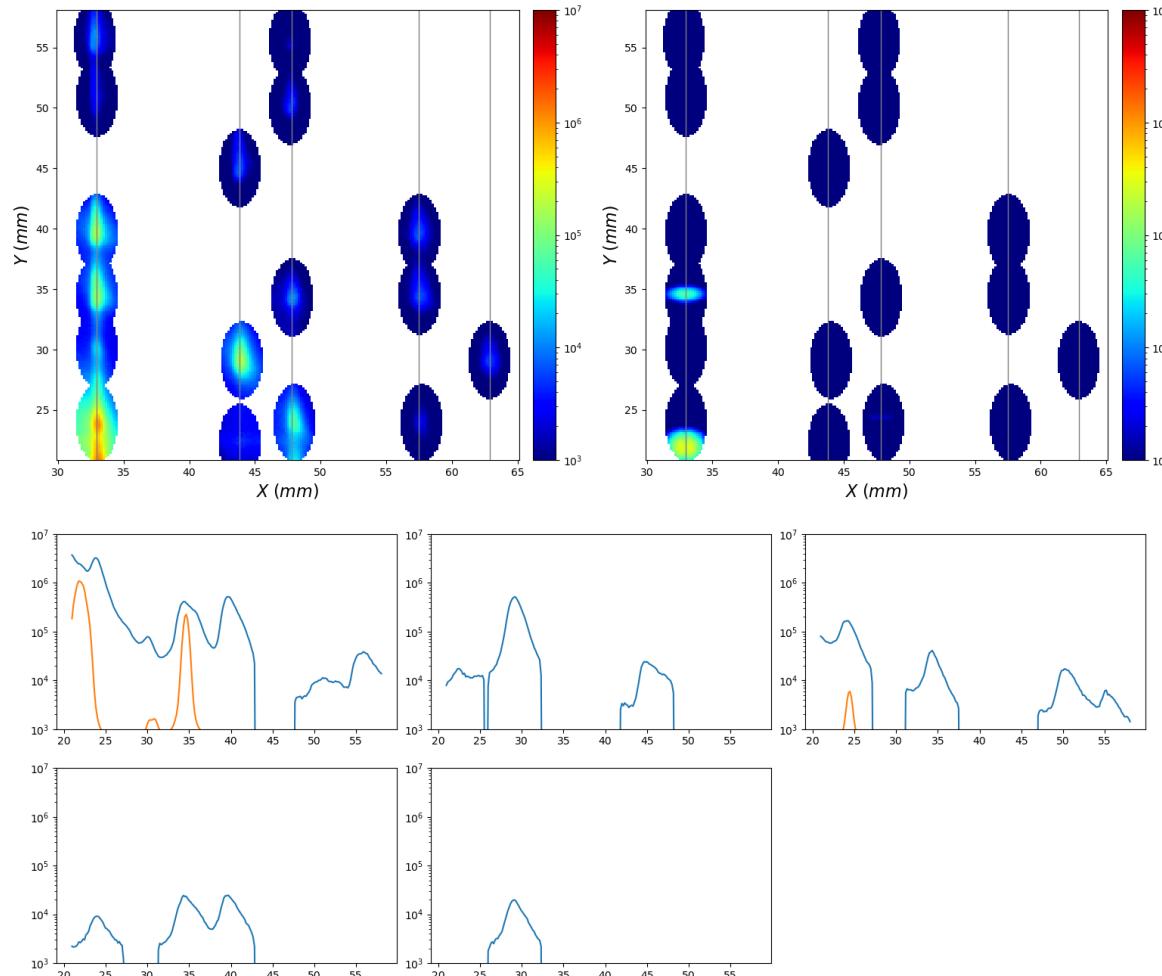
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 3.0
}
```



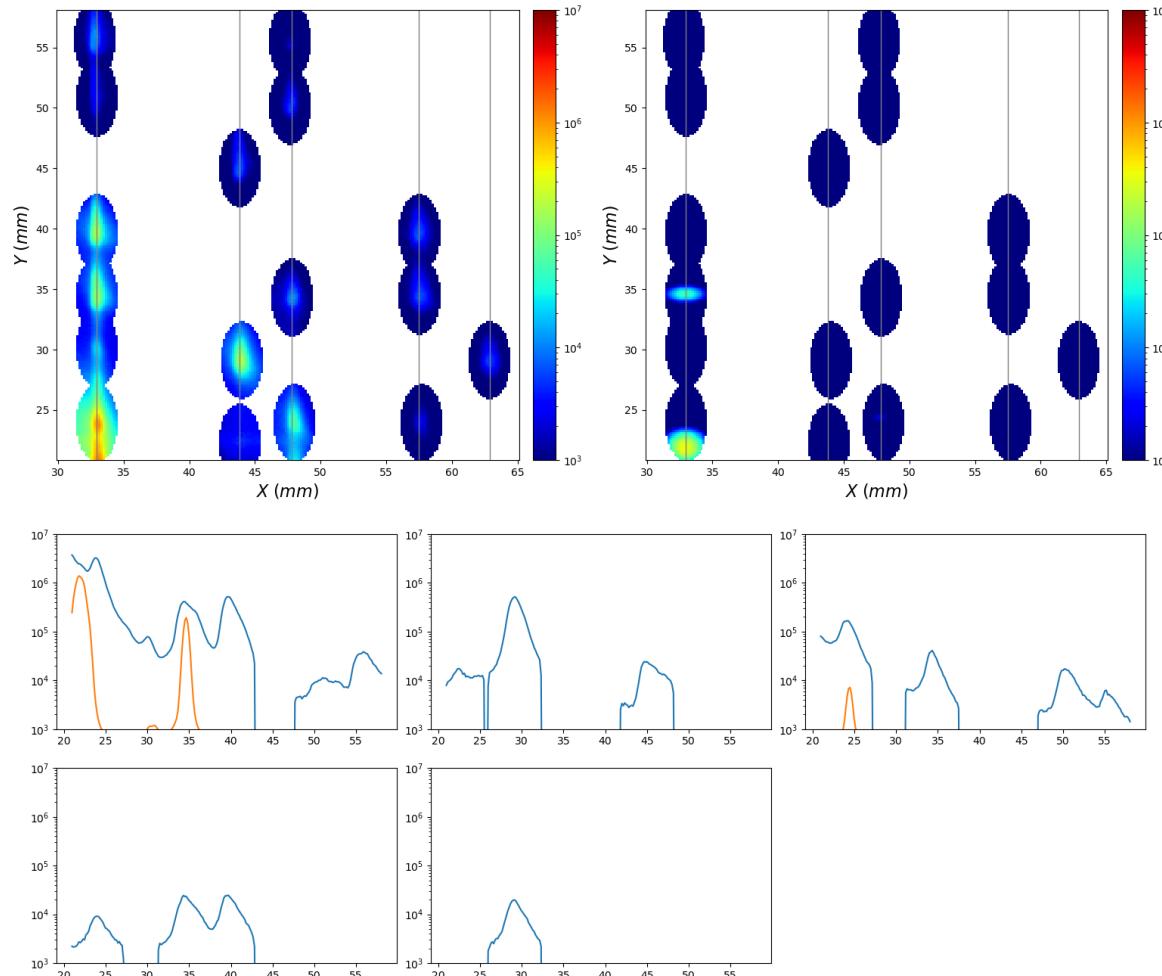
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 3.2000000000000001
}
```



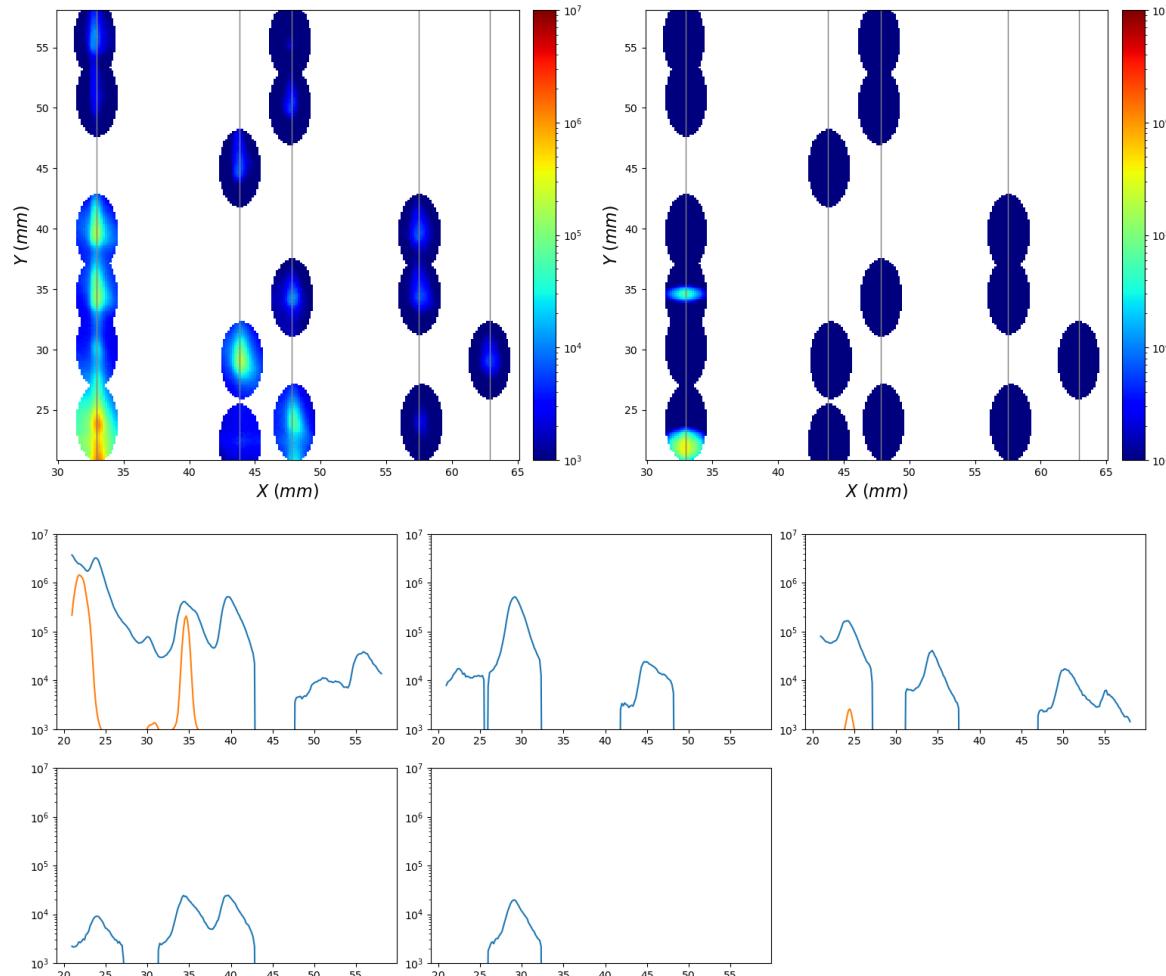
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 3.4000000000000004
}
```



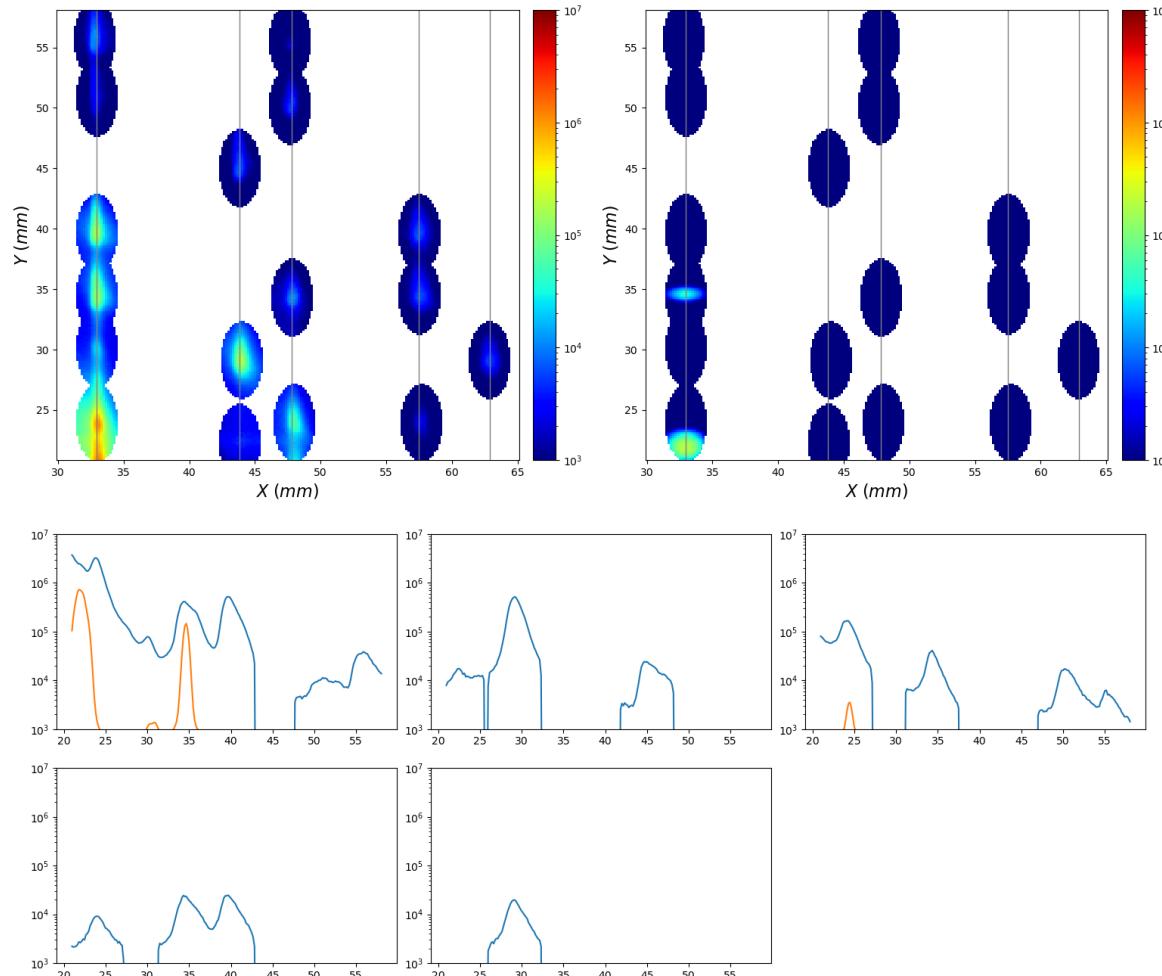
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 3.599999999999996
}
```



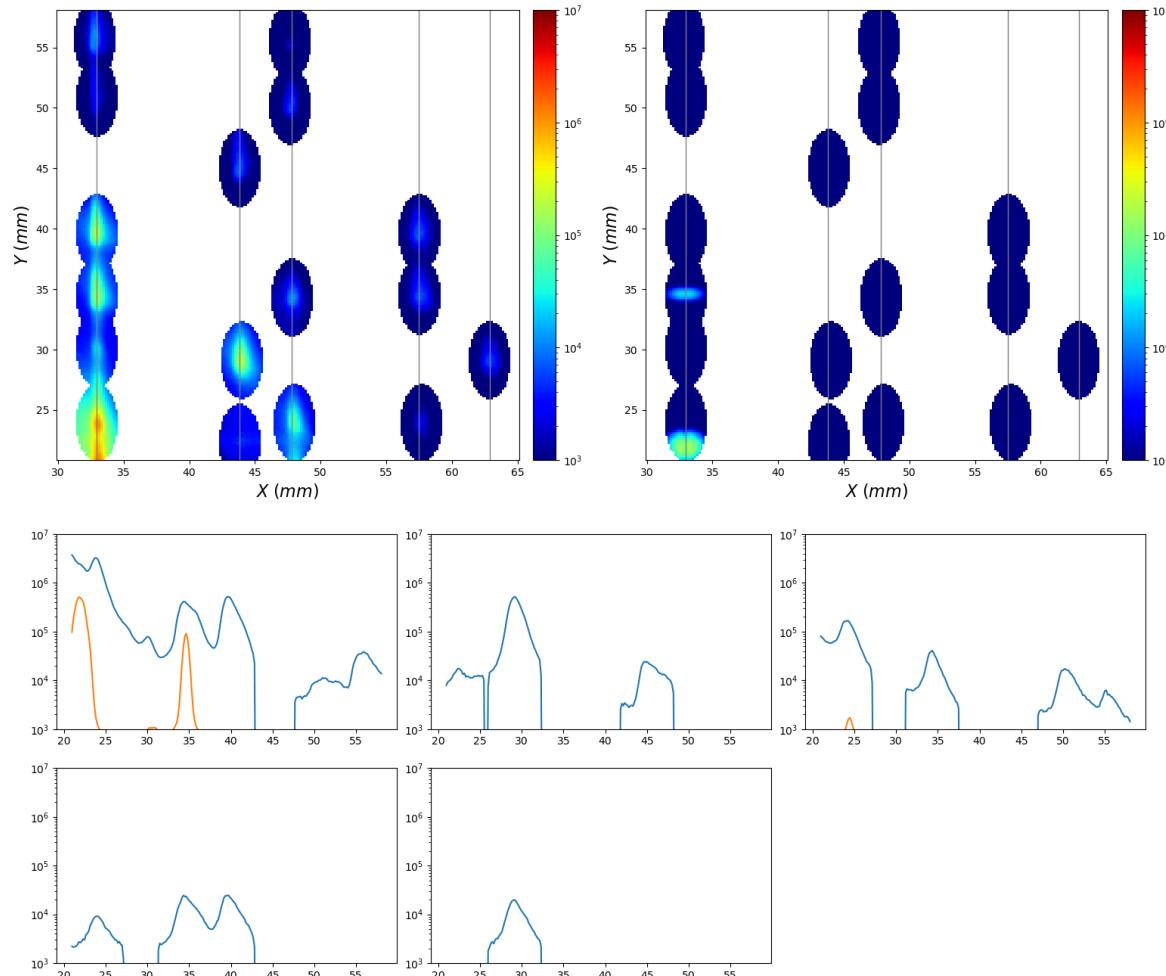
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 3.8000000000000007
}
```



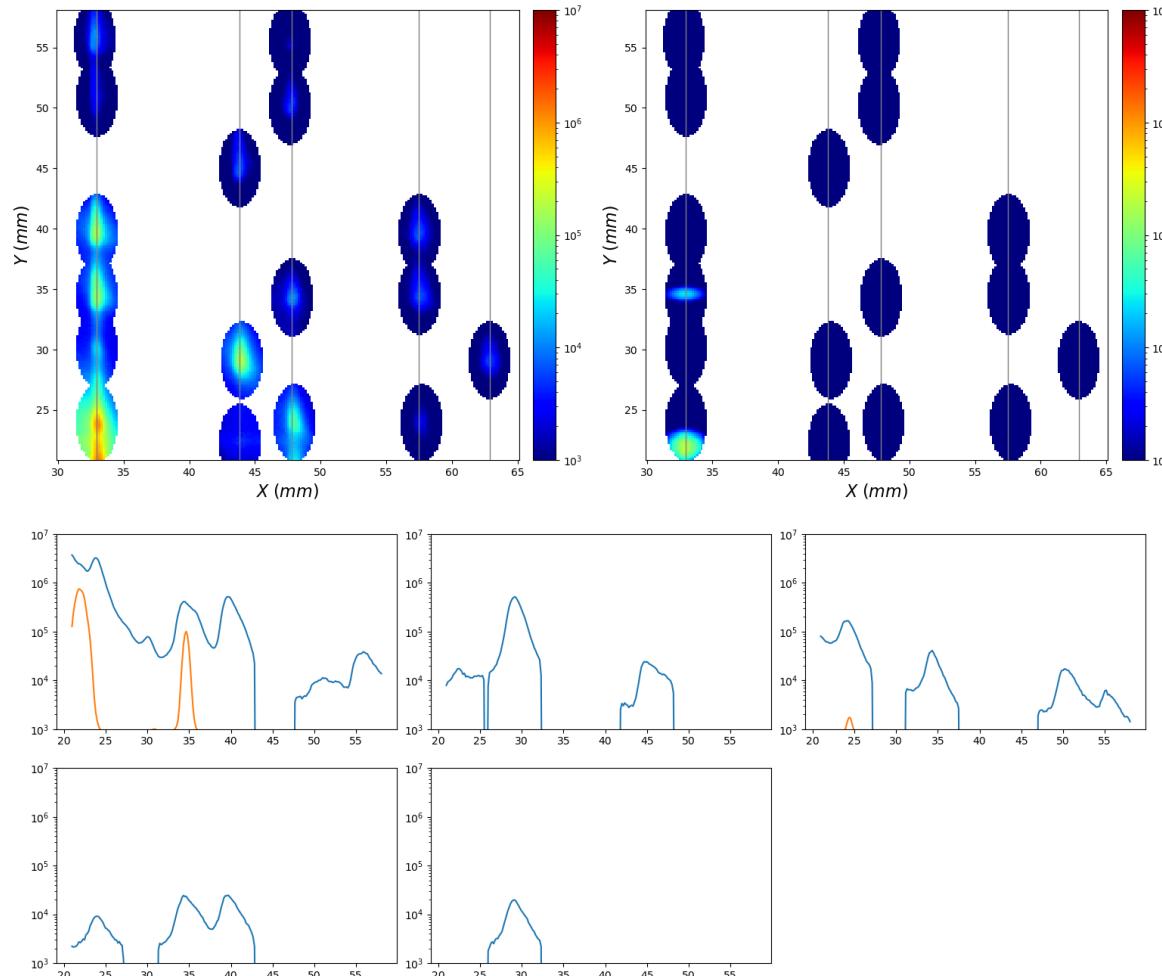
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 4.0
}
```



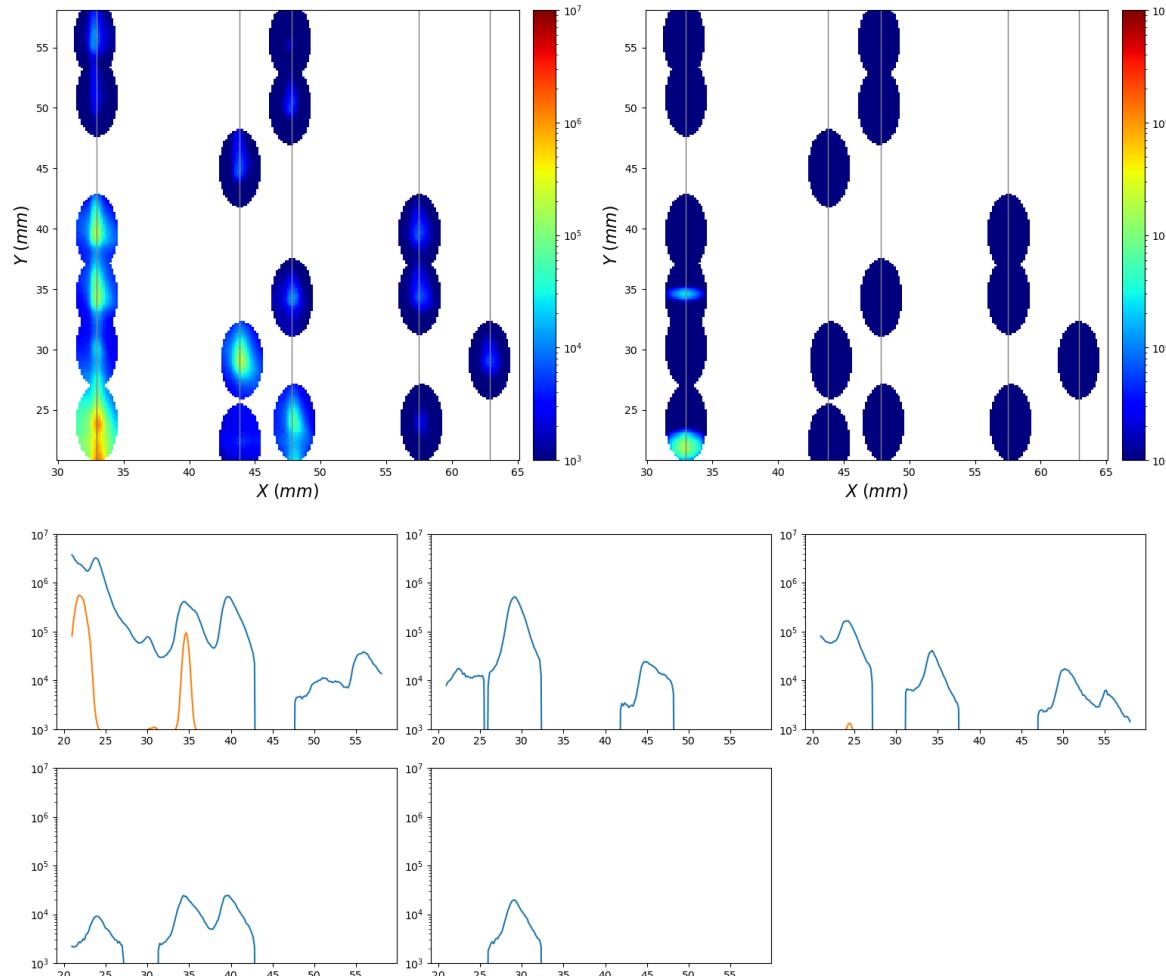
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 4.200000000000001
}
```



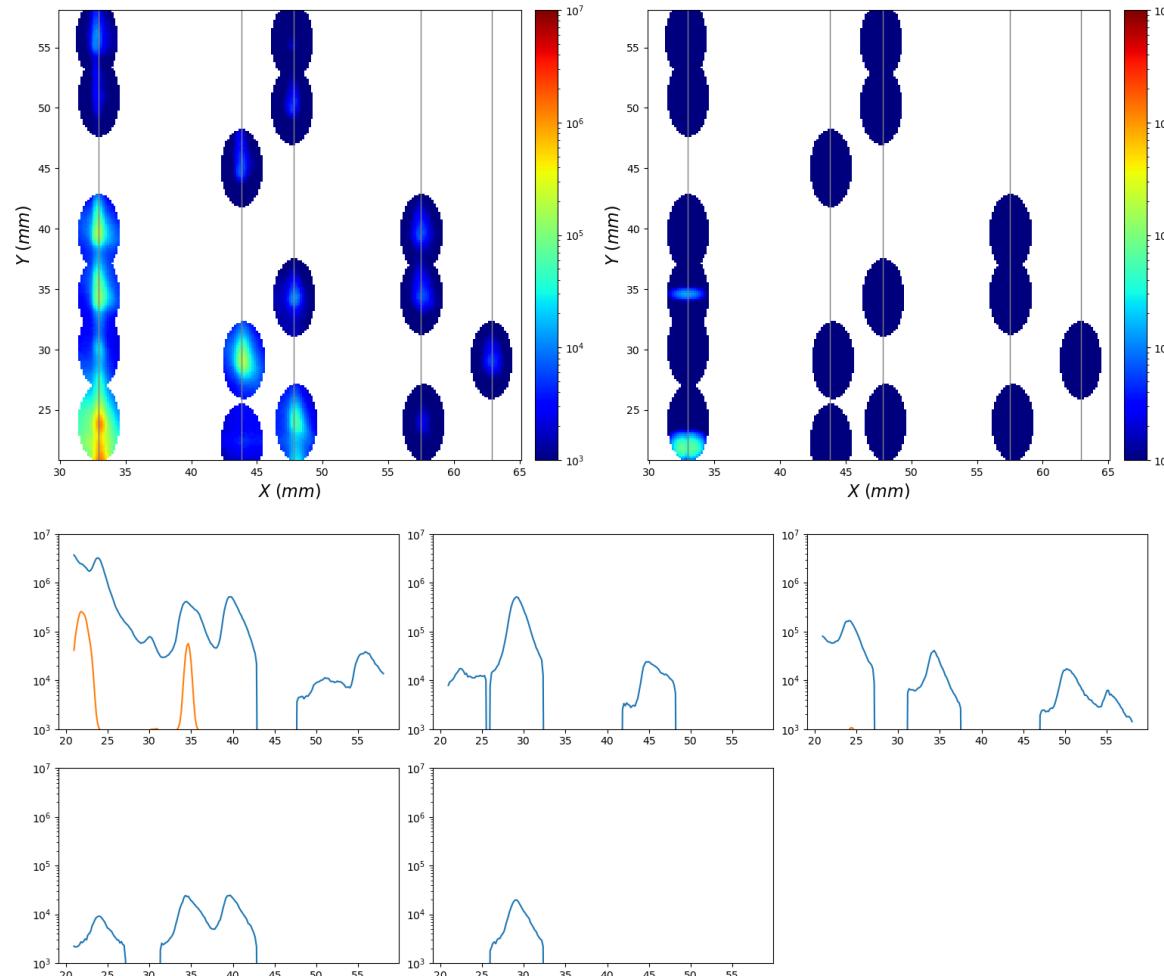
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 4.4
}
```



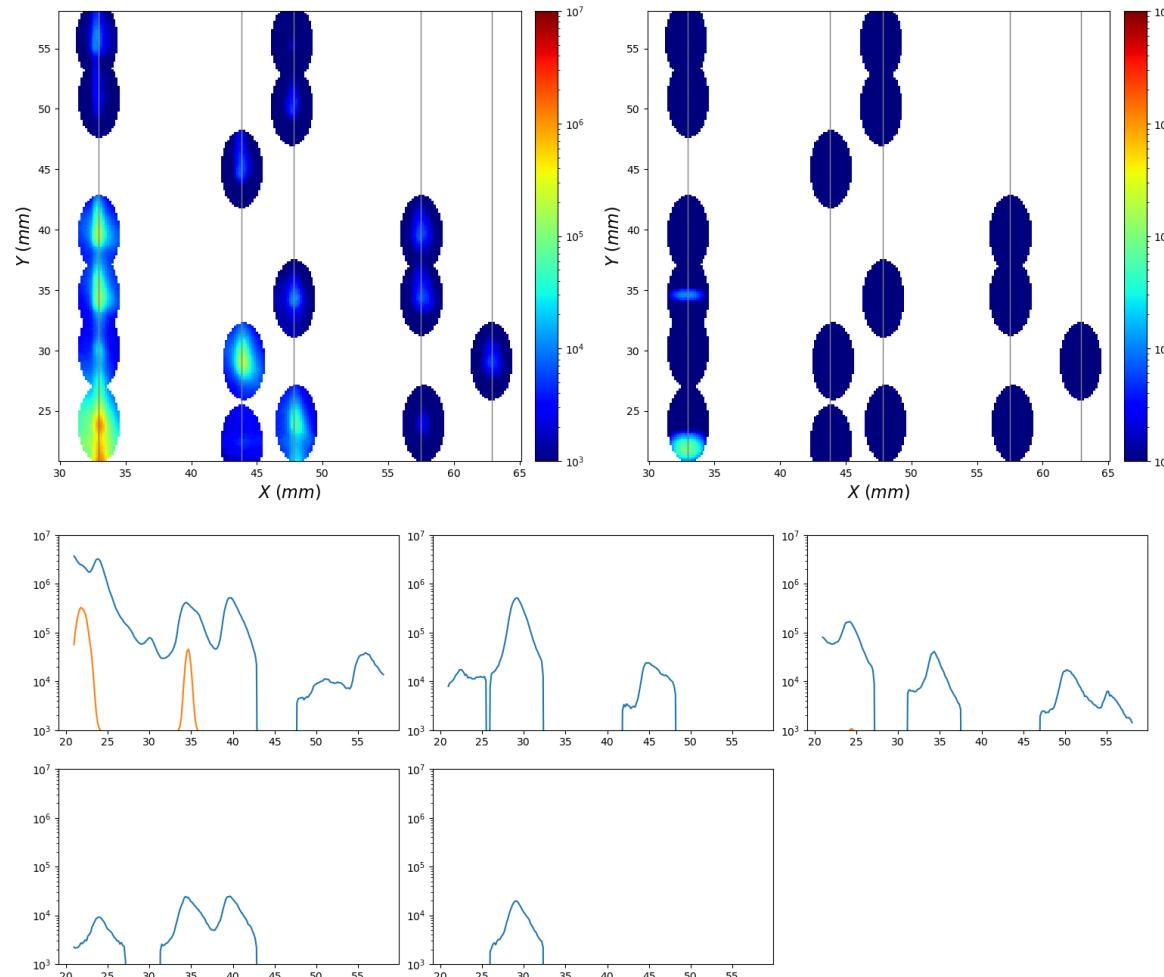
Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 4.600000000000001
}
```



Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 4.800000000000001
}
```



Single meso, rotation_z

```
{
  "sample_builder_type": "SampleBuilderVer2",
  "roughness": 6.0,
  "surface_filling_ratio": 0.15,
  "average_layer_thickness": 1000,
  "meso_elevation": 50,
  "meso_factory_type": "SingleMesoFactory",
  "diffuse_builder_type": "None",
  "meso_builder_type": "FixedCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 800,
  "meso_radius": 2000,
  "sigma_meso_height": 20.0,
  "sigma_meso_radius": 20.0,
  "sigma_lattice_length_a": 0.1,
  "rotation_x": 0.0,
  "rotation_z": 5.0
}
```

