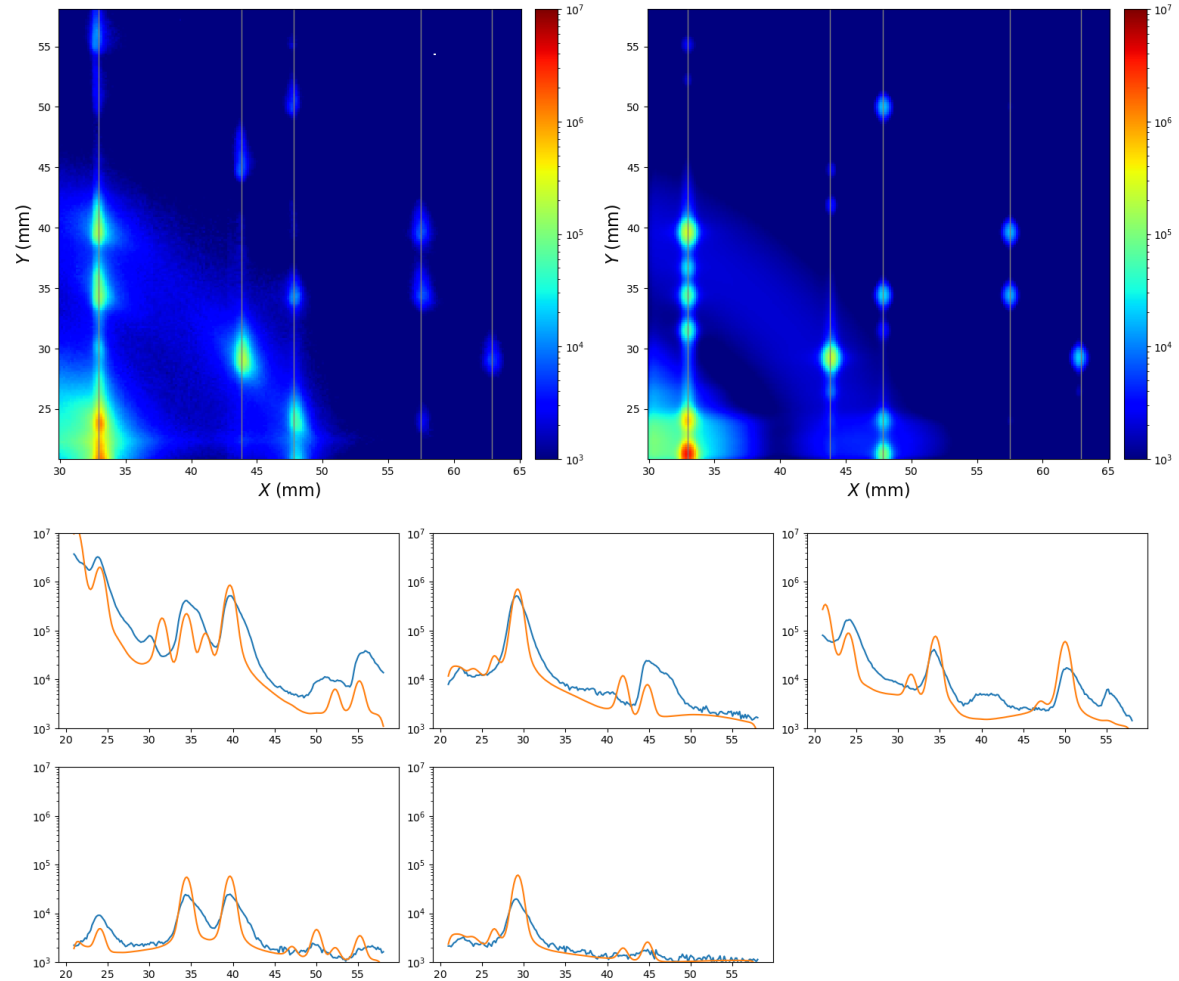


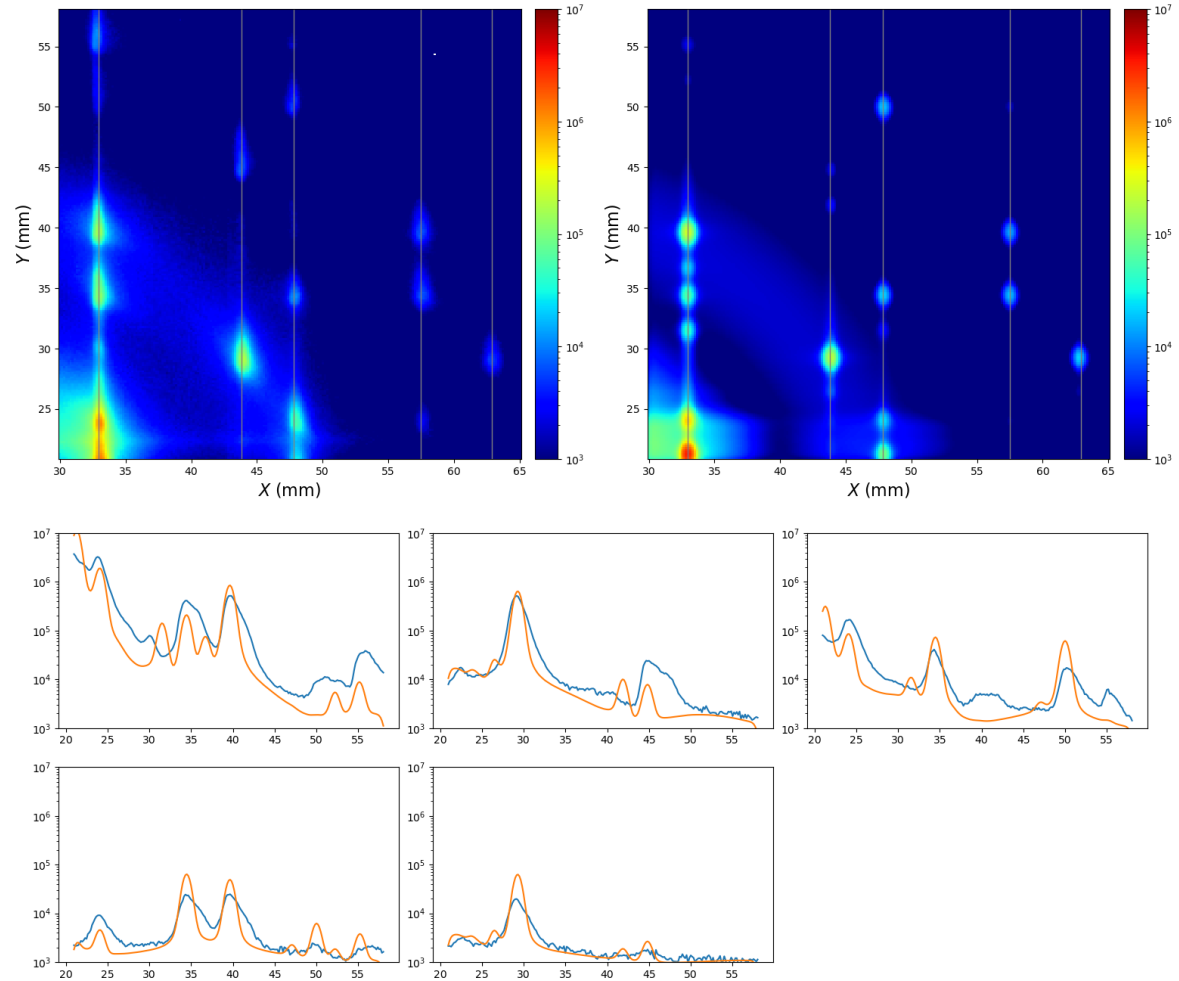
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 0.5,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



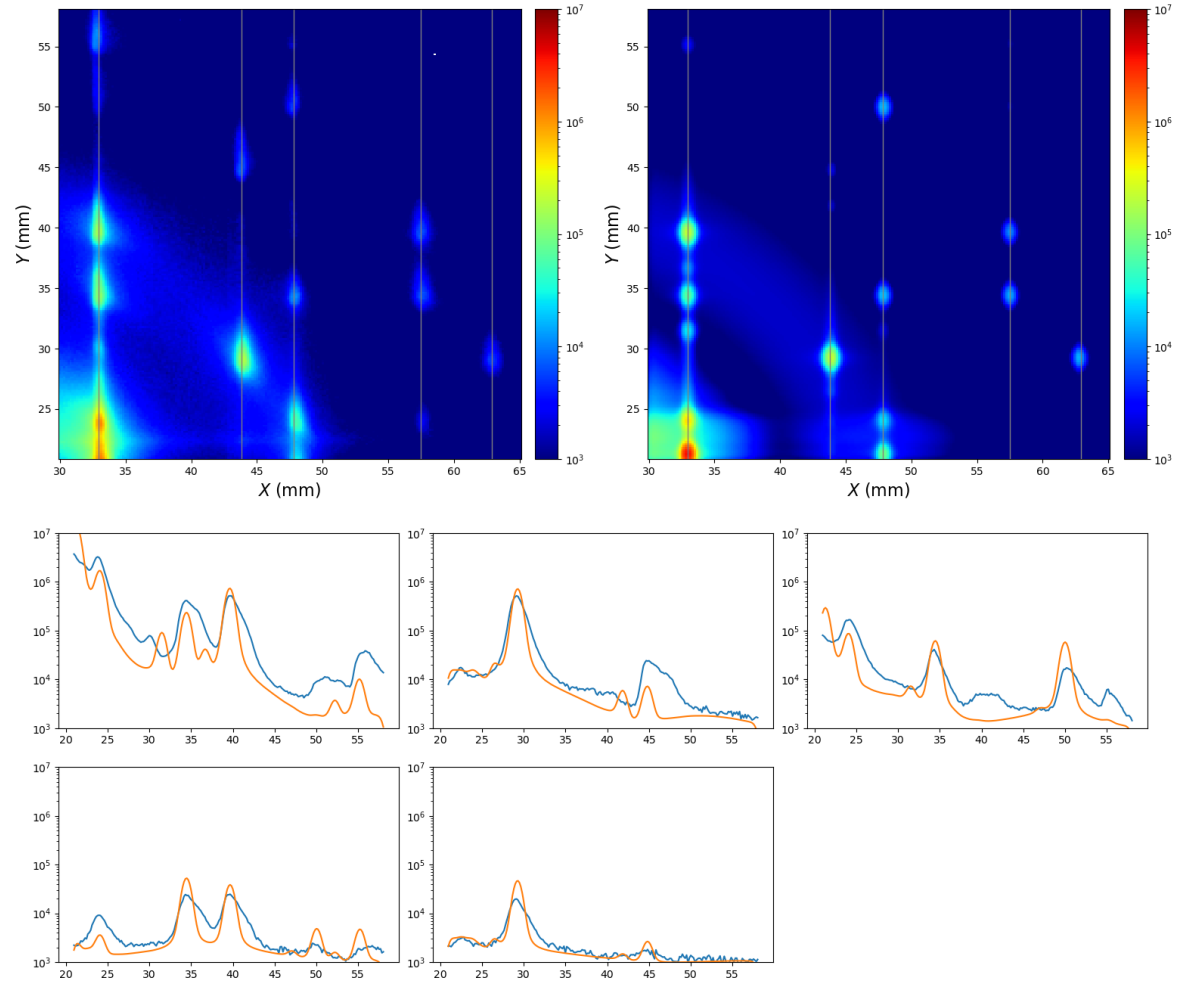
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 1.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



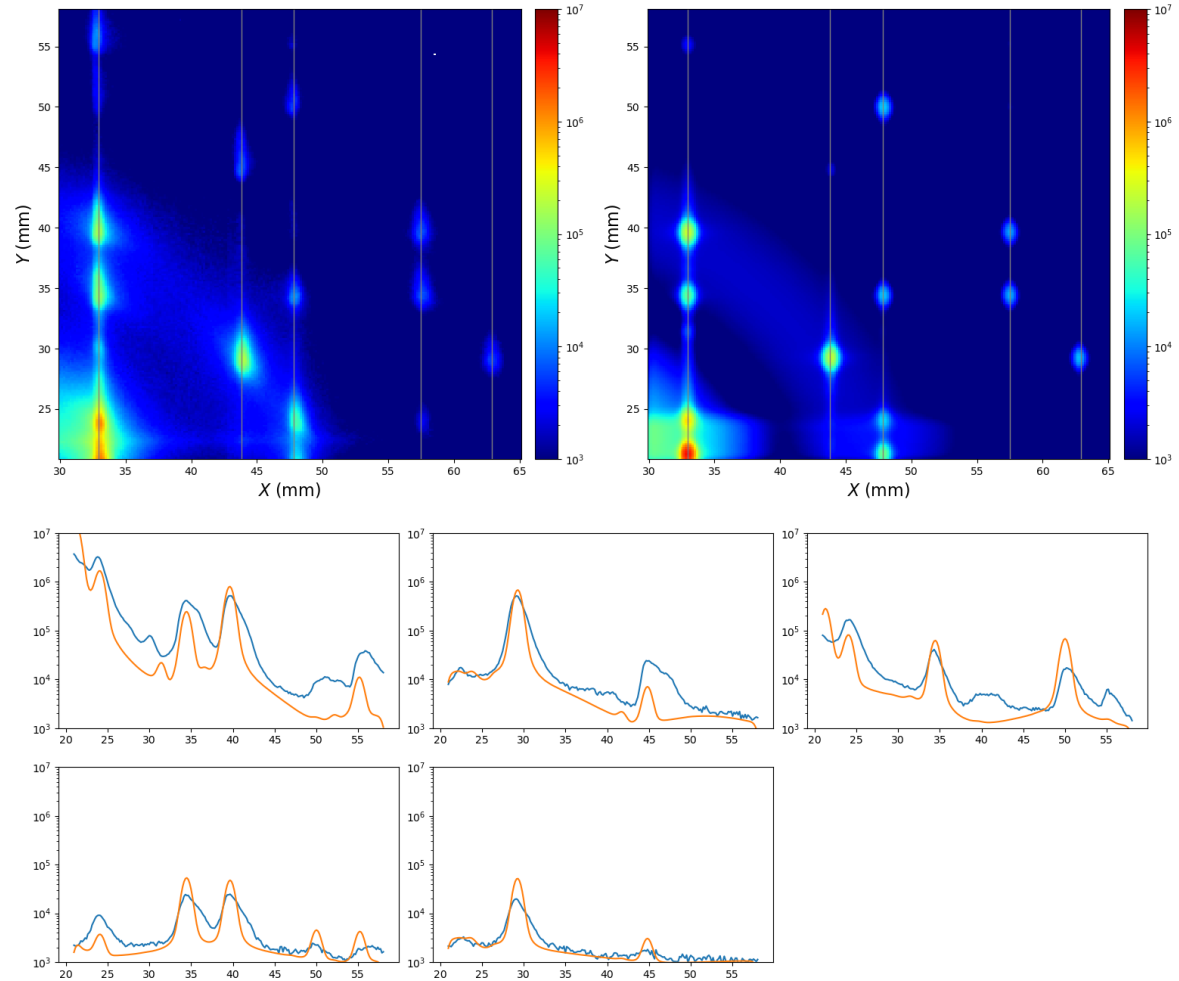
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 2.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



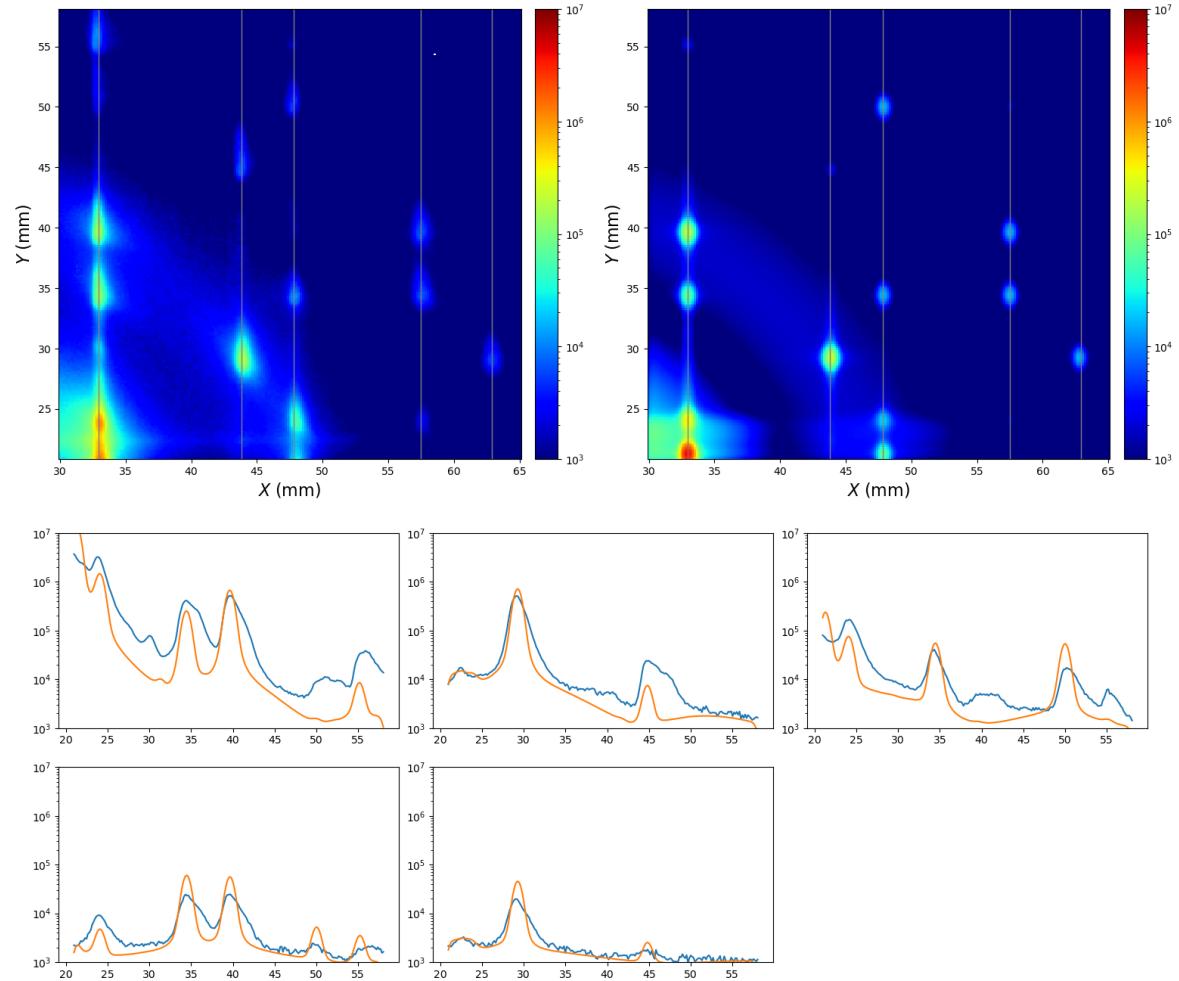
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 4.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



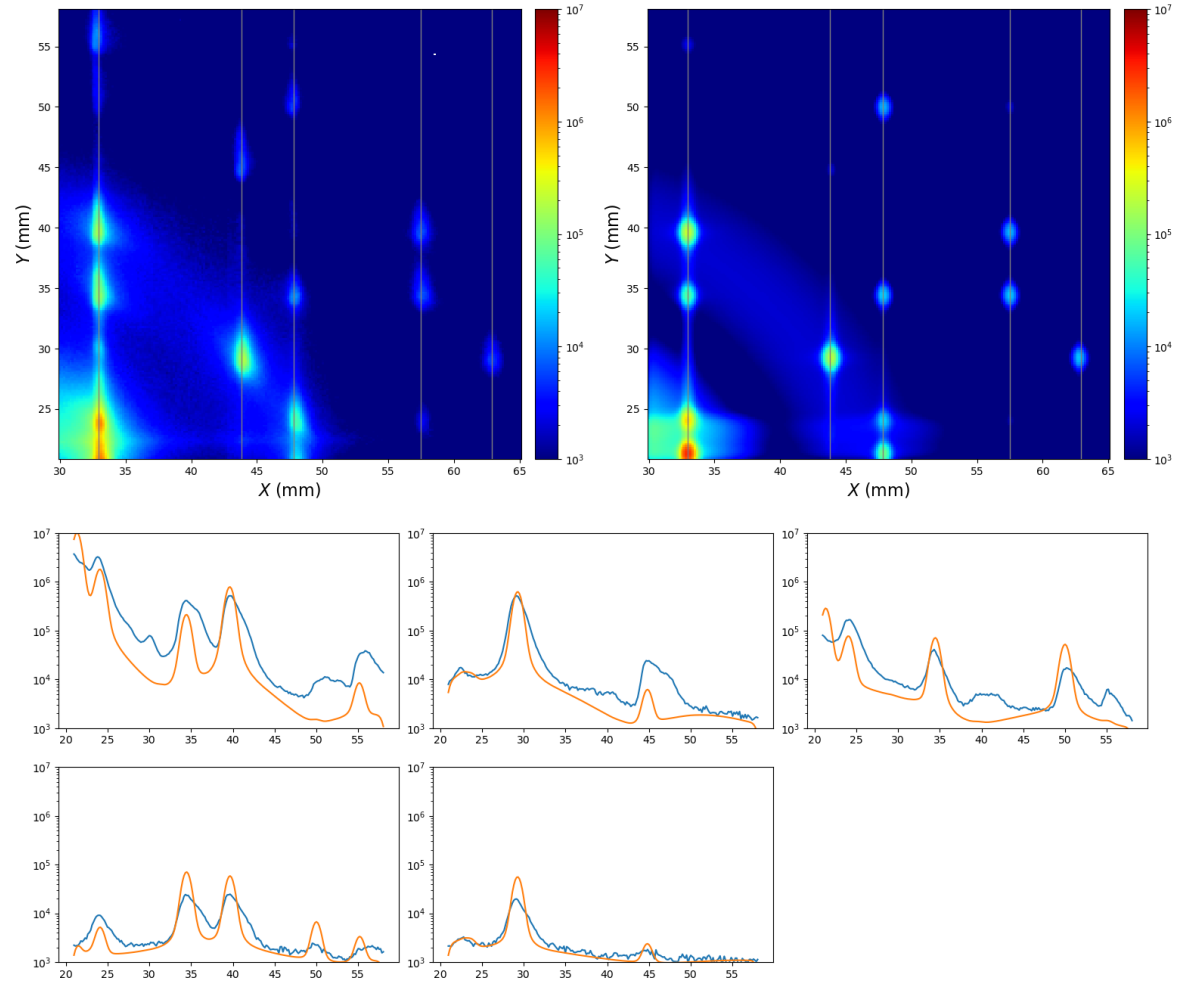
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 6.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



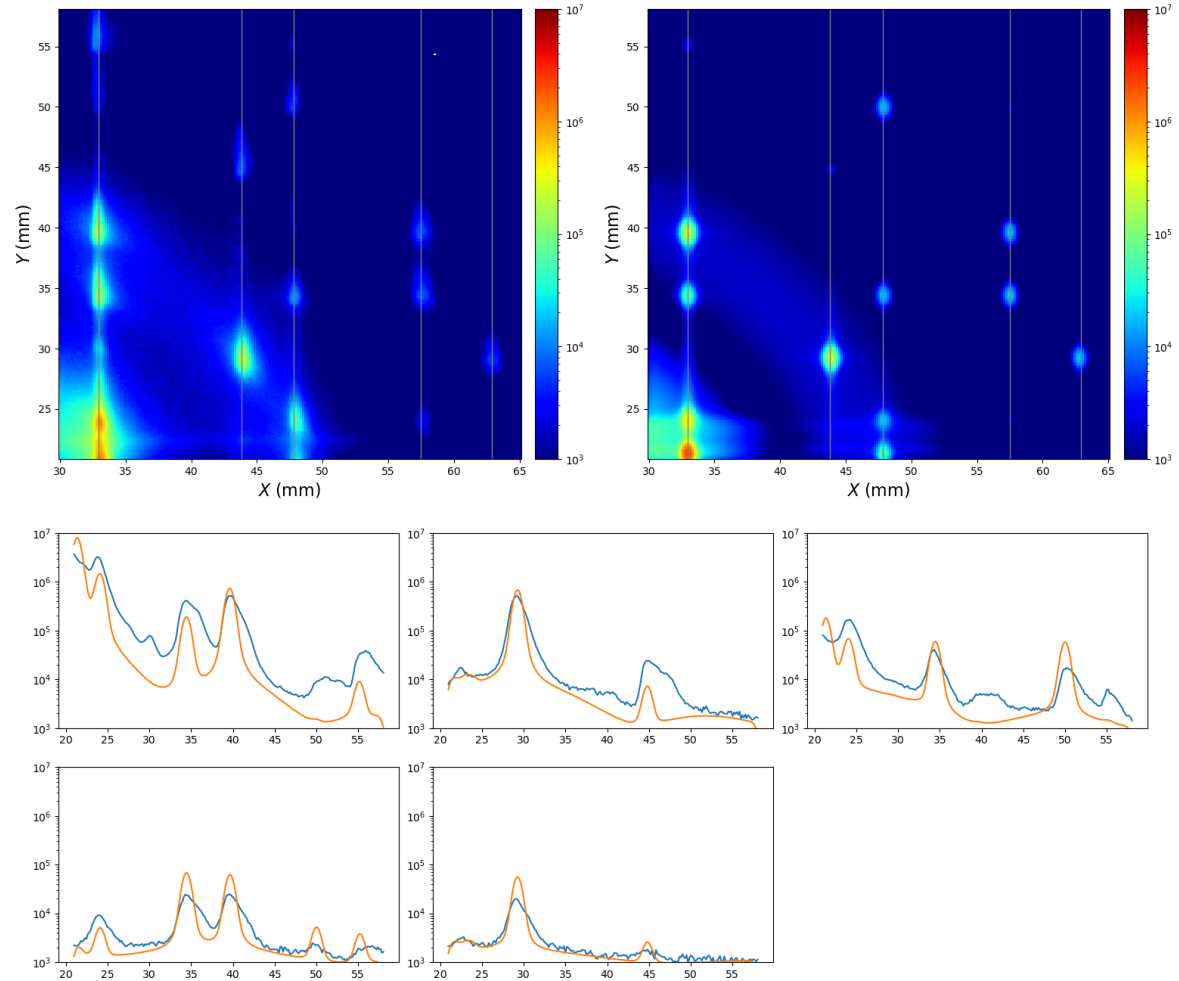
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 8.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



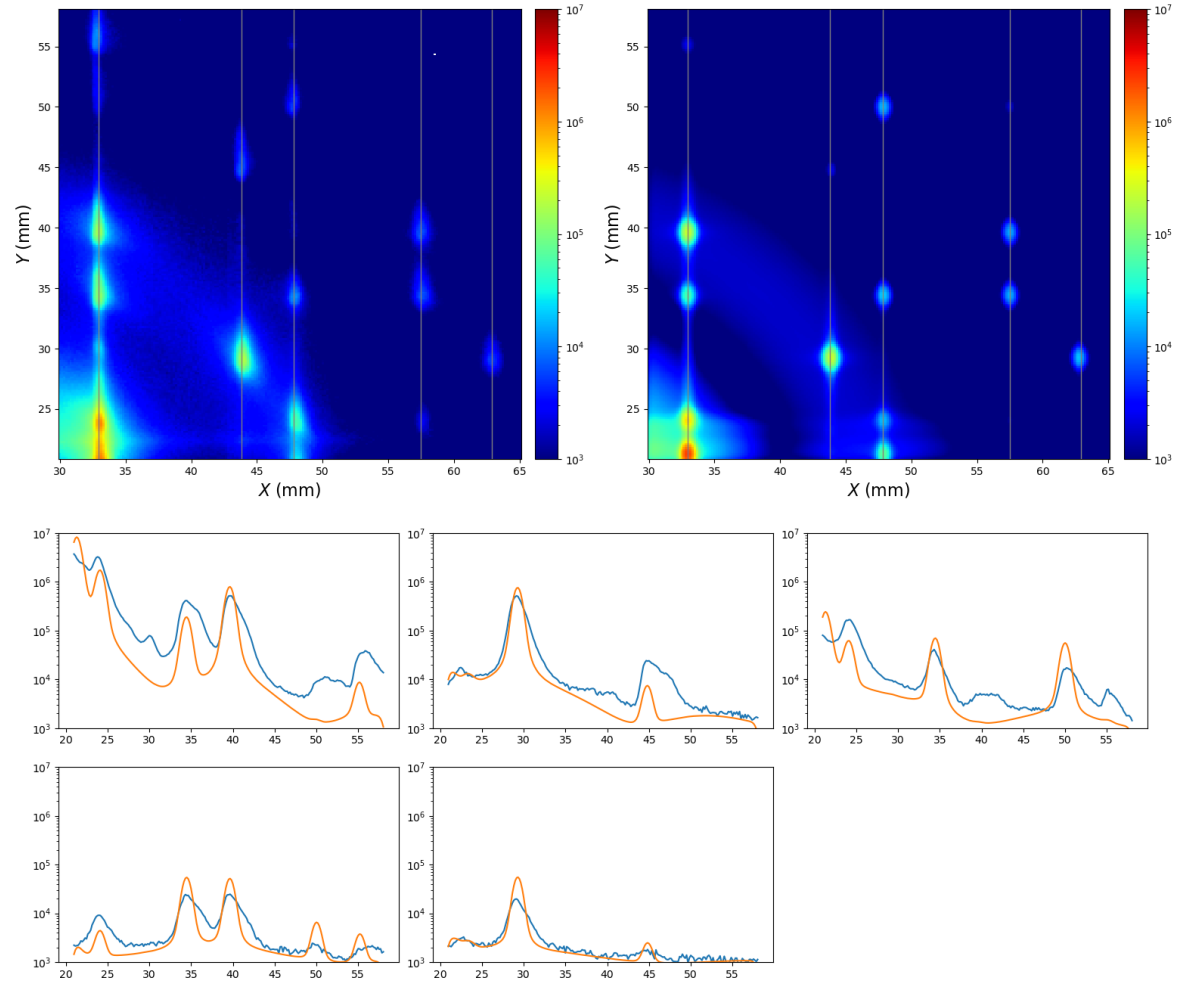
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 10.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



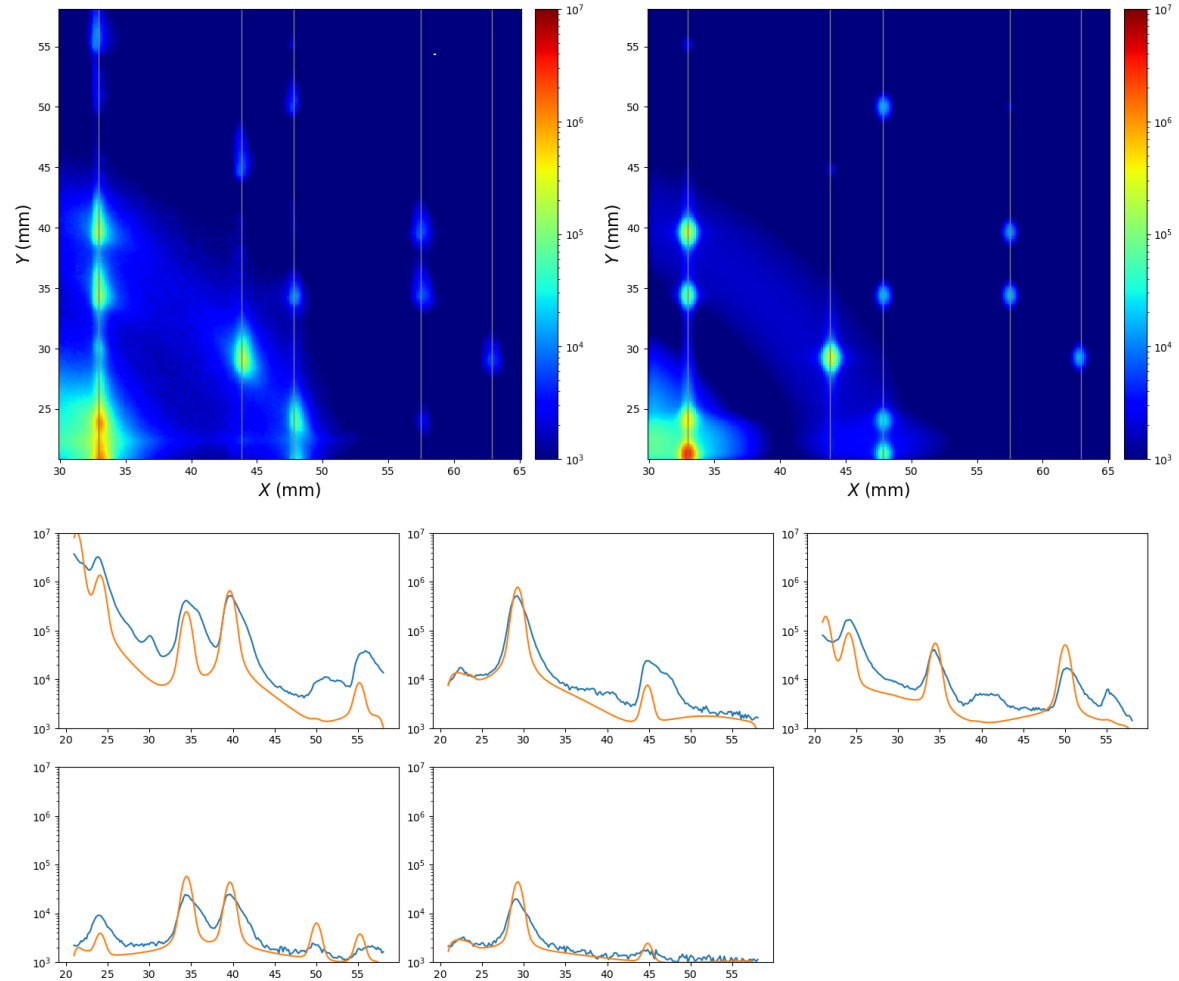
RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 12.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 16.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```



RandomMeso, roughness scan

```
{
  "sample_builder_type": "SampleBuilderVer3",
  "layouts": [
    "RandomSizeParticles",
    "RandomMesoFactory"
  ],
  "roughness": 20.0,
  "average_layer_thickness": 1100,
  "meso_elevation": 20,
  "RandomMesoFactory": {
    "meso_count": 500,
    "layout_weight": 0.02,
    "surface_filling_ratio": 0.12,
    "tilt_dtheta": 0.2
  },
  "meso_builder_type": "FuzzyCylinder",
  "lattice_length_a": 12.5,
  "lattice_length_c": 31.1,
  "nparticles": 10,
  "nanoparticle_radius": 5.02,
  "sigma_nanoparticle_radius": 0.3,
  "meso_height": 200.0,
  "meso_radius": 200.0,
  "particle_pos_sigma": 0.3,
  "rotation_x": 0.0,
  "rotation_z": 0.0
}
```

