

**General data****Description:****Project number:** ELN_0634**Done by:****Date:** 12/1/2017**Specification:** PA_01_5x**Contact data****Company:****Contact:****Address:****ZIP:****City:****Component data****Component no.:****Component name:****Comment:****System data****Manufacturer:** Carl Zeiss Microscopy GmbH**Microscope:** Axio Imager.M2**Objective:** EC Epiplan 5x/0.13 HD M27**Pixel scaling:** 1.43 µm/Pixel**Camera:** Axiocam 503 color**Resolution:** 1936 x 1460 Pixel**Software:** AxioVision Particle Analyzer**Release:** 4.9.1 (08-2013)**Gravimetry****Membrane filter weight**

Before filtration: mg

After filtration: mg

Residue weight: mg

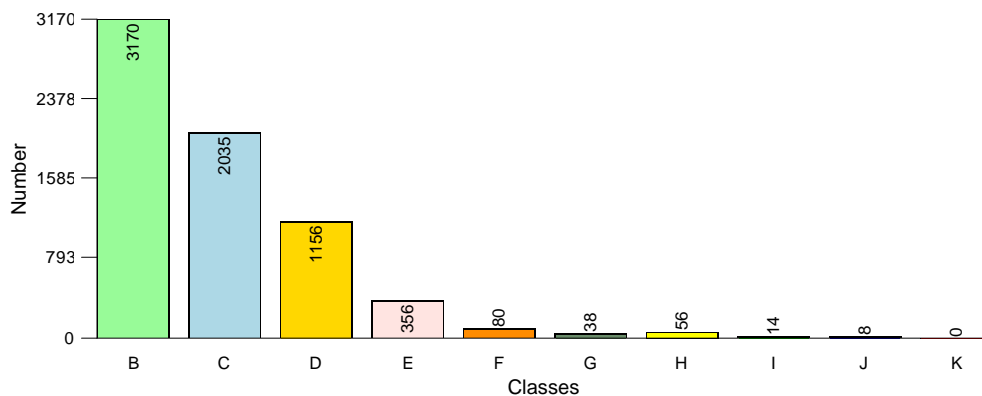
Results

Blank value: G = mg

Cleanliness value: G = mg

Evaluation of all particles

Class distribution (by count)

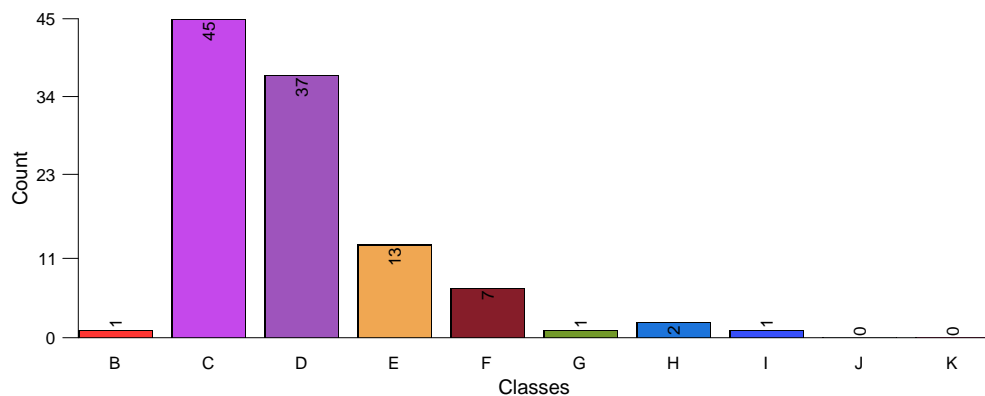


Particle size distribution

Class	\geq	$<$	Absolute number of particles	Normalized particle count per N
B	5	15	3170	3170
C	15	25	2035	2035
D	25	50	1156	1156
E	50	100	356	356
F	100	150	80	80
G	150	200	38	38
H	200	400	56	56
I	400	600	14	14
J	600	1000	8	8
K	1000		0	0

Evaluation of reflective particles

Class distribution (by count)

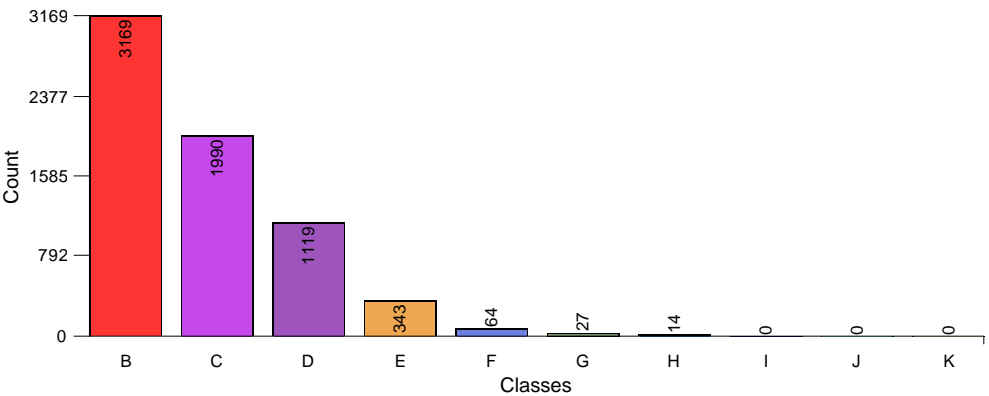


Non-reflective particle size distribution

Class	\geq	$<$	Absolute number of particles	Normalized particle count per N
B	5	15	1	1
C	15	25	45	45
D	25	50	37	37
E	50	100	13	13
F	100	150	7	7
G	150	200	1	1
H	200	400	2	2
I	400	600	1	1
J	600	1000	0	0
K	1000		0	0

Evaluation of non-reflective particles

Class distribution (by count)

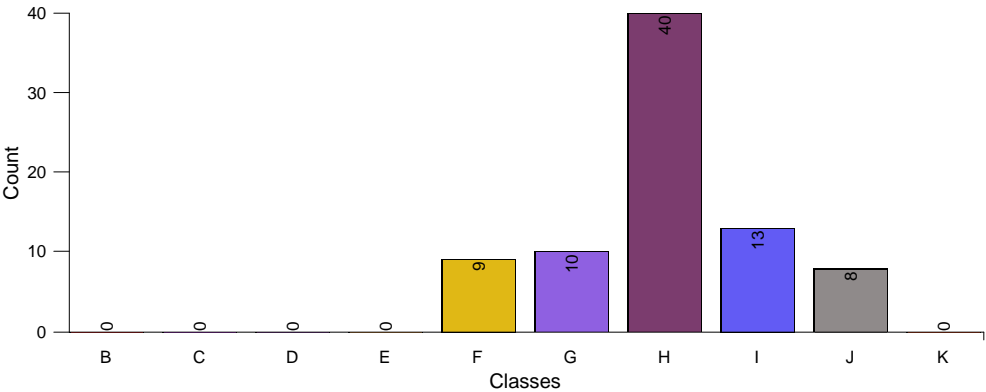


Non-reflective particle size distribution

Class	>=	<	Absolute number of particles	Normalized particle count per N
B	5	15	3169	3169
C	15	25	1990	1990
D	25	50	1119	1119
E	50	100	343	343
F	100	150	64	64
G	150	200	27	27
H	200	400	14	14
I	400	600	0	0
J	600	1000	0	0
K	1000		0	0

Evaluation of fibrous particles

Class distribution (by count)

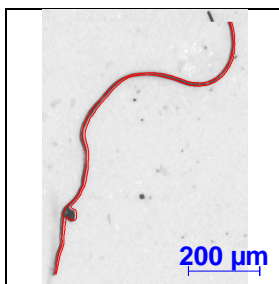


Fibrous particle size distribution

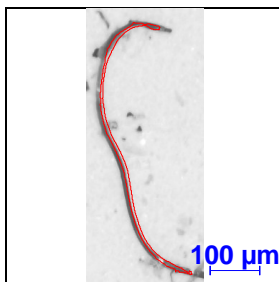
Class	>=	<	Absolute number of particles	Normalized particle count per N
B	5	15	0	0
C	15	25	0	0
D	25	50	0	0
E	50	100	0	0
F	100	150	9	9
G	150	200	10	10
H	200	400	40	40
I	400	600	13	13
J	600	1000	8	8
K	1000		0	0

Evaluation of particle height

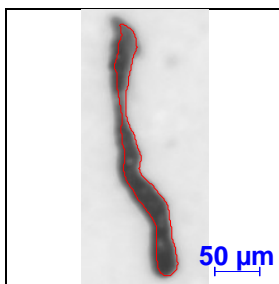
IndexRegion	Feretmaximum [µm]	Feretminimum [µm]	Maximuminscribedcircle [µm]	ParticleType	Z value
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Largest particle

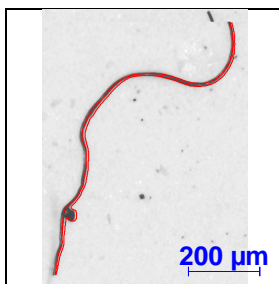
Particle ID: 263
Length [μm]: 866.41
Particle type: fibrous

Largest reflective particle

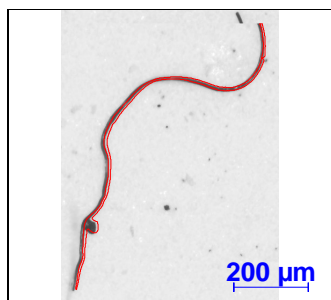
Particle ID: 2680
Length [μm]: 516.83

Largest non-reflective particle

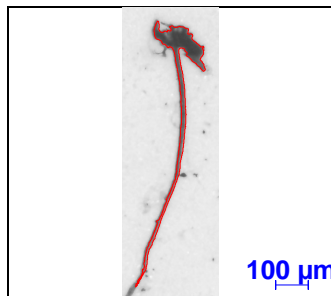
Particle ID: 6655
Length [μm]: 287.91

Largest fibrous particle

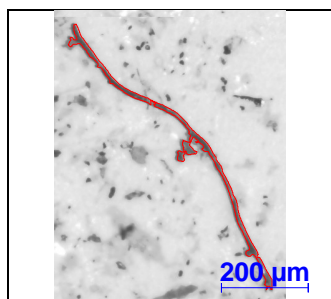
Particle ID: 263
Length [μm]: 866.41

Gallery of all particles

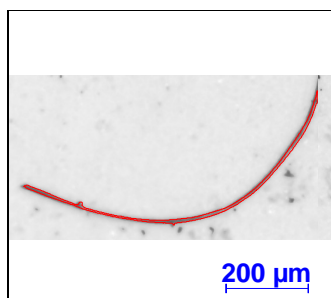
Particle ID: 263
Length [µm]: 866.41
Particle type: fibrous



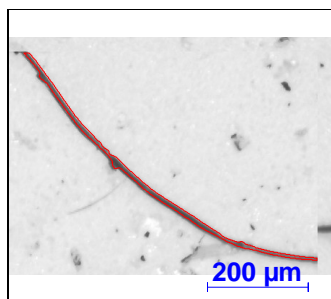
Particle ID: 2816
Length [µm]: 815.50
Particle type: fibrous



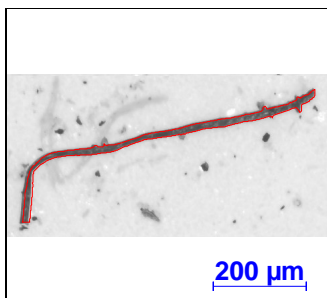
Particle ID: 3535
Length [µm]: 760.24
Particle type: fibrous



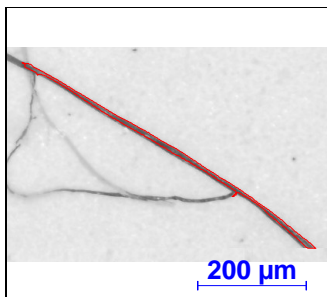
Particle ID: 5471
Length [µm]: 755.87
Particle type: fibrous



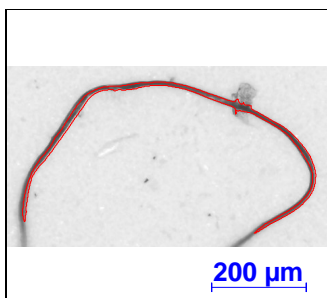
Particle ID: 2625
Length [µm]: 711.81
Particle type: fibrous



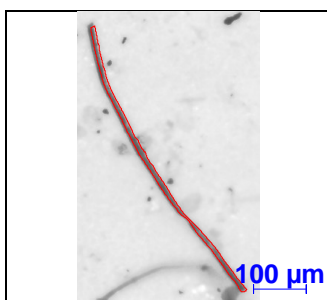
Particle ID: 2573
Length [μm]: 690.88
Particle type: fibrous



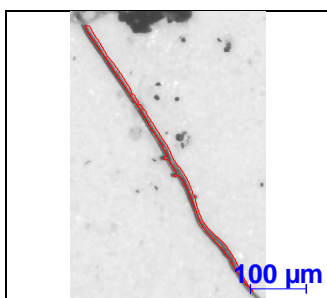
Particle ID: 528
Length [μm]: 643.77
Particle type: fibrous



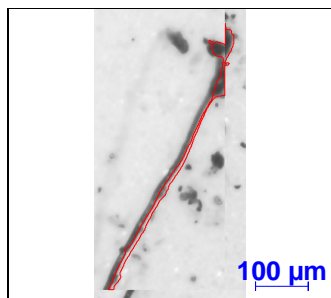
Particle ID: 191
Length [μm]: 627.68
Particle type: fibrous



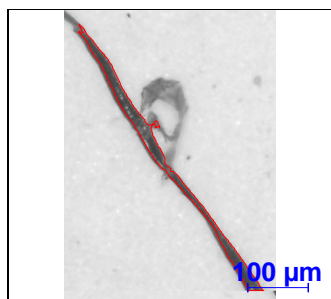
Particle ID: 2199
Length [μm]: 587.88
Particle type: fibrous



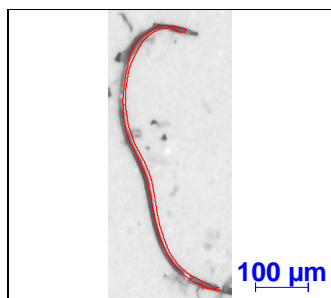
Particle ID: 1423
Length [μm]: 570.20
Particle type: fibrous



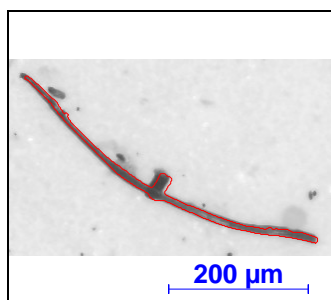
Particle ID: 1158
Length [µm]: 550.08
Particle type: fibrous



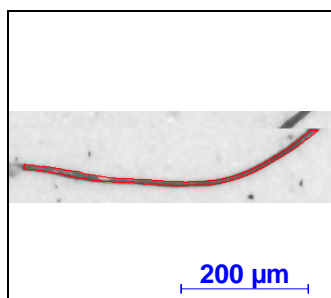
Particle ID: 4749
Length [µm]: 529.41
Particle type: fibrous



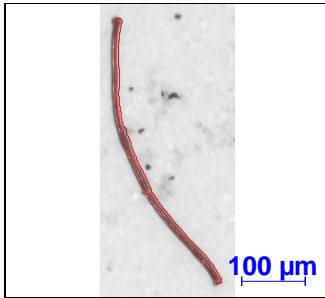
Particle ID: 2680
Length [µm]: 516.83
Particle type: reflective



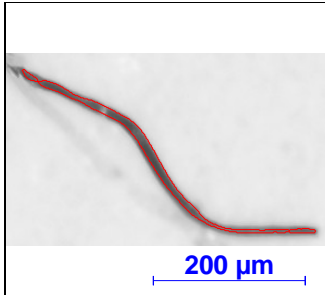
Particle ID: 2316
Length [µm]: 483.70
Particle type: fibrous



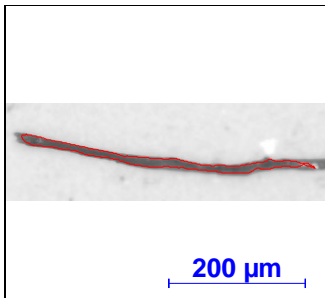
Particle ID: 4771
Length [µm]: 465.66
Particle type: fibrous



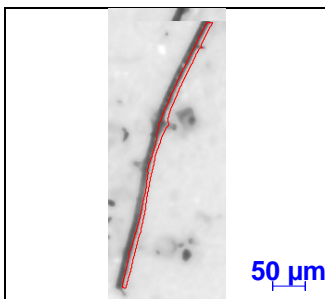
Particle ID: 2654
Length [μm]: 451.80
Particle type: fibrous



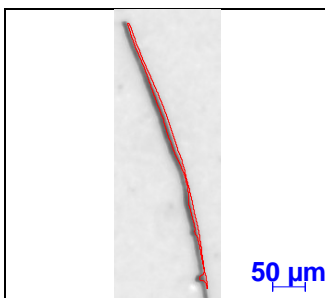
Particle ID: 4853
Length [μm]: 440.76
Particle type: fibrous



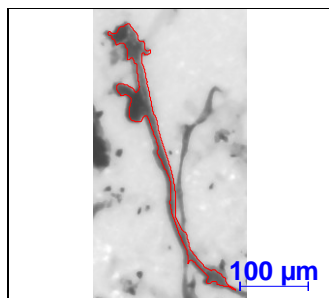
Particle ID: 6910
Length [μm]: 435.97
Particle type: fibrous



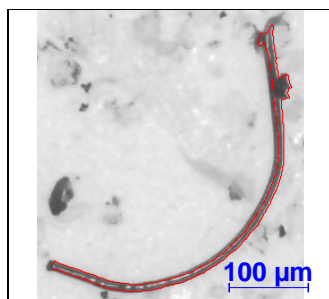
Particle ID: 1230
Length [μm]: 429.99
Particle type: fibrous



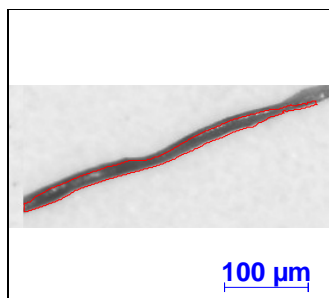
Particle ID: 965
Length [μm]: 427.45
Particle type: fibrous



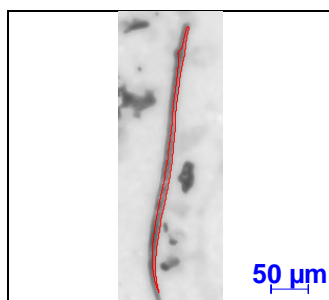
Particle ID: 3956
Length [µm]: 425.79
Particle type: fibrous



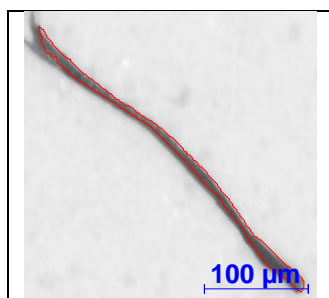
Particle ID: 2412
Length [µm]: 415.72
Particle type: fibrous



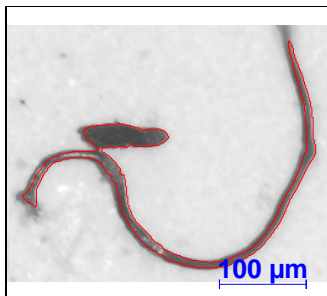
Particle ID: 6372
Length [µm]: 377.19
Particle type: fibrous



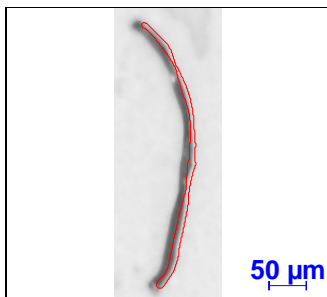
Particle ID: 718
Length [µm]: 365.78
Particle type: fibrous



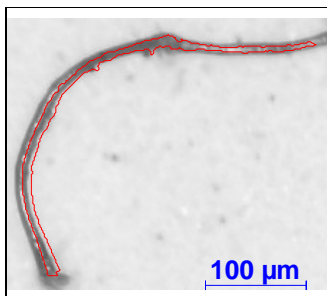
Particle ID: 948
Length [µm]: 358.79
Particle type: fibrous



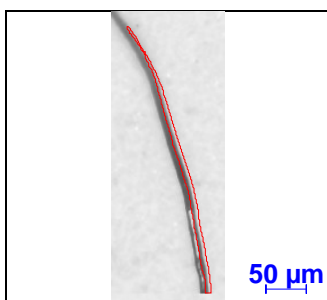
Particle ID: 3651
Length [µm]: 358.35
Particle type: fibrous



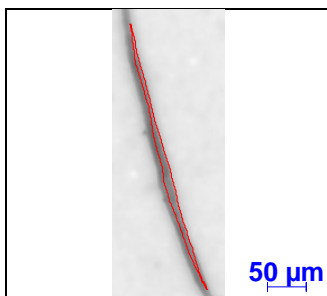
Particle ID: 568
Length [µm]: 355.83
Particle type: fibrous



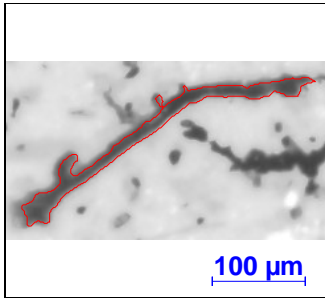
Particle ID: 1608
Length [µm]: 351.86
Particle type: fibrous



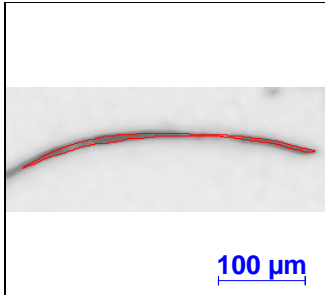
Particle ID: 4746
Length [µm]: 351.58
Particle type: fibrous



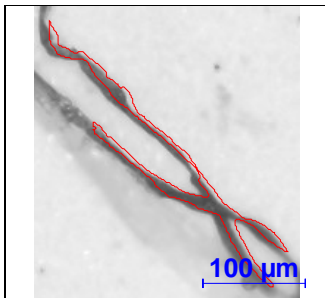
Particle ID: 486
Length [µm]: 350.85
Particle type: fibrous



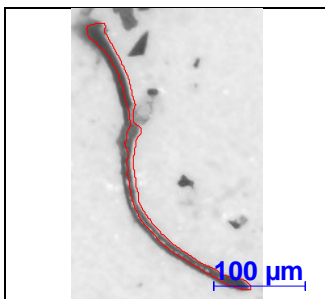
Particle ID: 4464
Length [µm]: 348.67
Particle type: fibrous



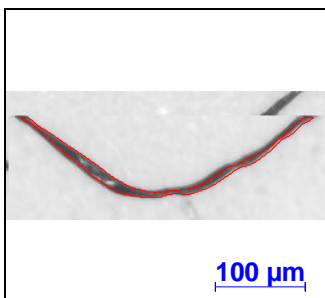
Particle ID: 6215
Length [µm]: 341.40
Particle type: fibrous



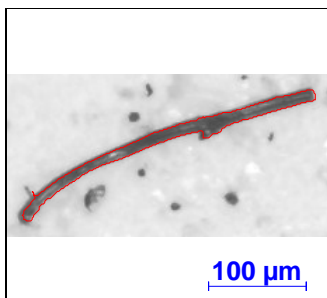
Particle ID: 1581
Length [µm]: 339.80
Particle type: fibrous



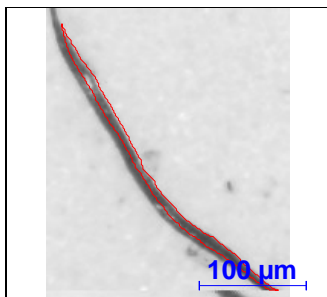
Particle ID: 6079
Length [µm]: 339.32
Particle type: fibrous



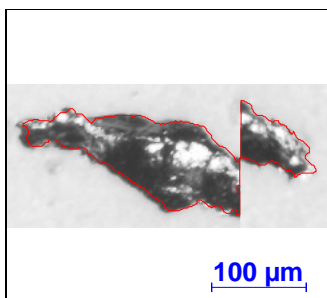
Particle ID: 3298
Length [µm]: 326.40
Particle type: fibrous



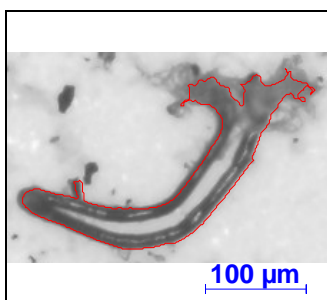
Particle ID: 5989
Length [µm]: 324.32
Particle type: fibrous



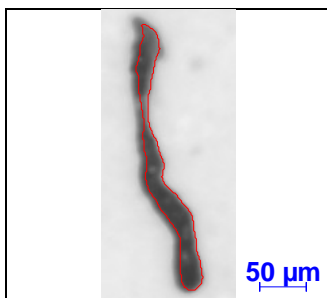
Particle ID: 3245
Length [µm]: 322.11
Particle type: fibrous



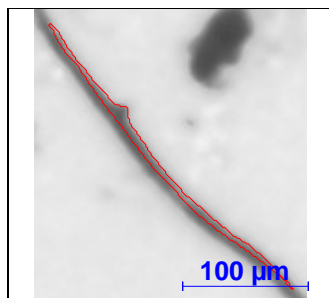
Particle ID: 294
Length [µm]: 317.97
Particle type: reflective



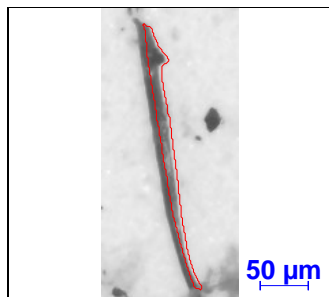
Particle ID: 2894
Length [µm]: 314.98
Particle type: fibrous



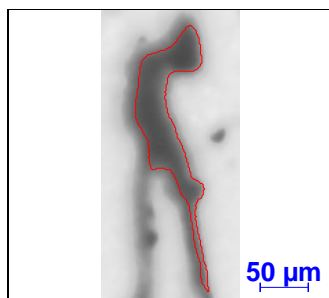
Particle ID: 6655
Length [µm]: 287.91
Particle type: non-reflective



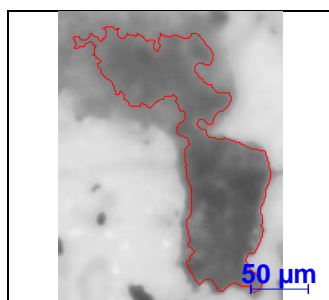
Particle ID: 866
Length [μm]: 286.48
Particle type: fibrous



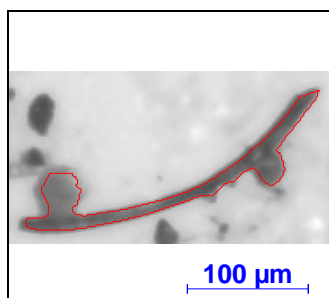
Particle ID: 1315
Length [μm]: 282.91
Particle type: fibrous



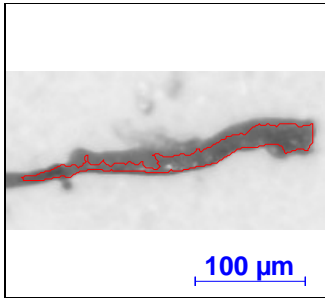
Particle ID: 1090
Length [μm]: 275.91
Particle type: non-reflective



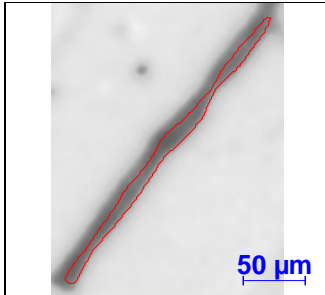
Particle ID: 3674
Length [μm]: 273.10
Particle type: non-reflective



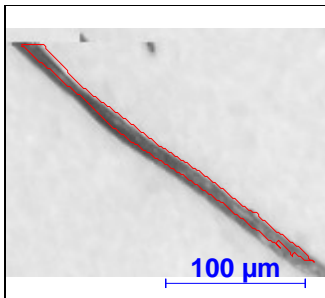
Particle ID: 3404
Length [μm]: 270.37
Particle type: fibrous



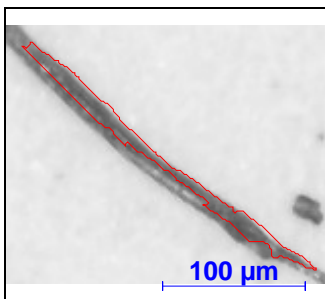
Particle ID: 6909
Length [µm]: 270.16
Particle type: fibrous



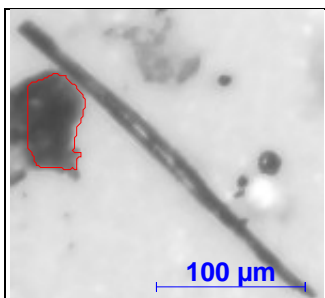
Particle ID: 1147
Length [µm]: 267.39
Particle type: fibrous



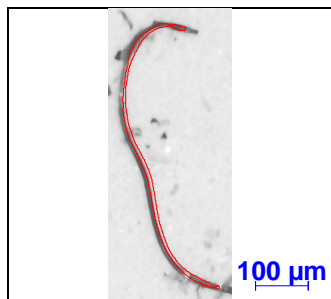
Particle ID: 543
Length [µm]: 262.83
Particle type: fibrous



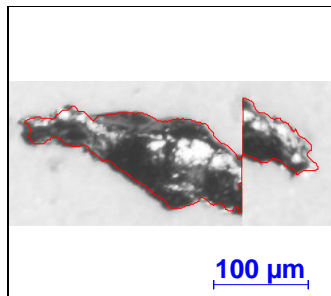
Particle ID: 2135
Length [µm]: 261.39
Particle type: fibrous



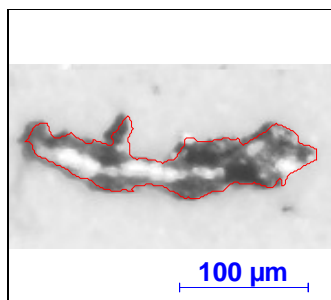
Particle ID: 3195
Length [µm]: 260.31
Particle type: fibrous

Gallery of reflective particles

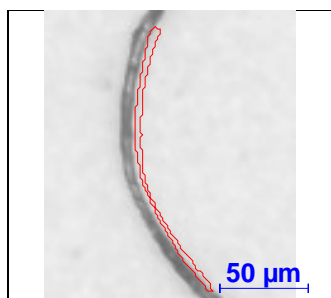
Particle ID: 2680
Length [µm]: 516.83



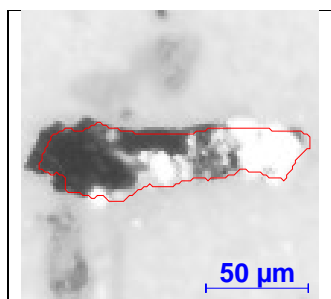
Particle ID: 294
Length [µm]: 317.97



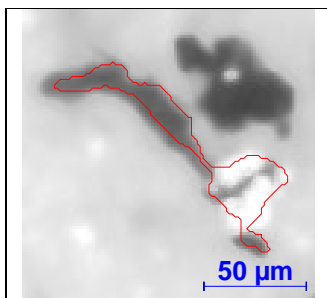
Particle ID: 1882
Length [µm]: 229.83



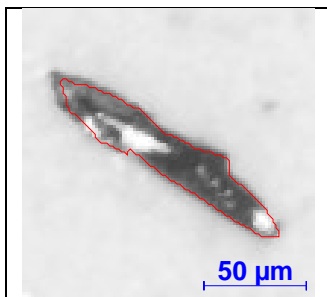
Particle ID: 2333
Length [µm]: 154.91



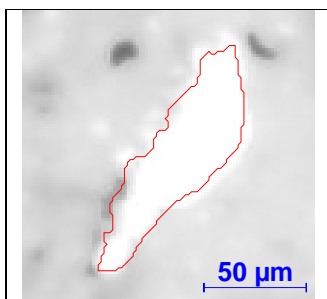
Particle ID: 2151
Length [µm]: 135.07



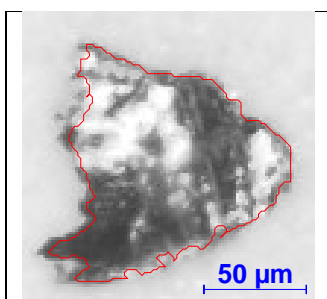
Particle ID: 3701
Length [µm]: 134.26



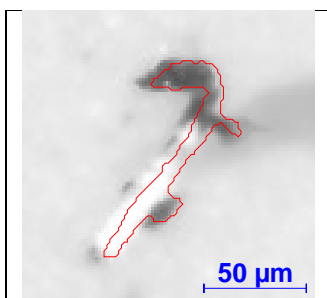
Particle ID: 1719
Length [µm]: 132.88



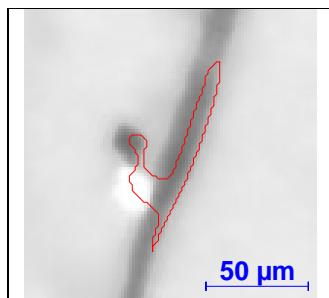
Particle ID: 3851
Length [µm]: 131.02



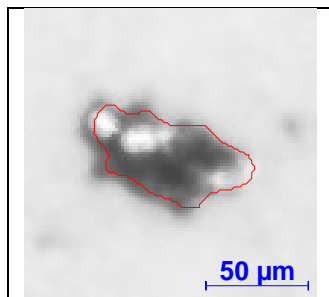
Particle ID: 6686
Length [µm]: 130.83



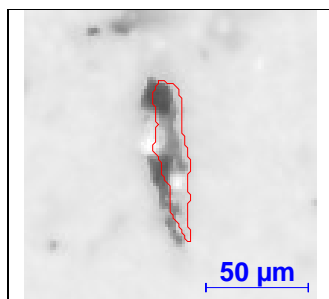
Particle ID: 1743
Length [µm]: 109.79



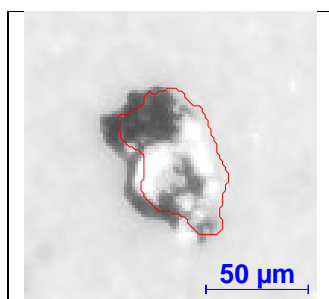
Particle ID: 438
Length [μm]: 100.10



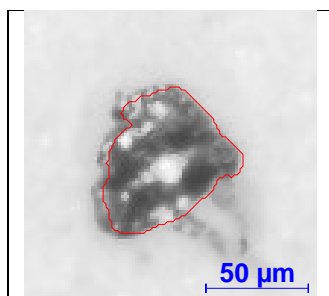
Particle ID: 1041
Length [μm]: 83.91



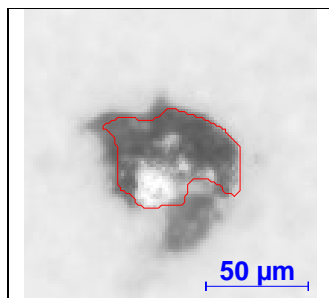
Particle ID: 5491
Length [μm]: 81.63



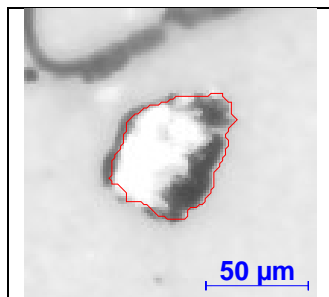
Particle ID: 621
Length [μm]: 79.74



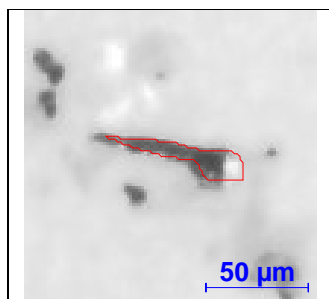
Particle ID: 6465
Length [μm]: 78.91



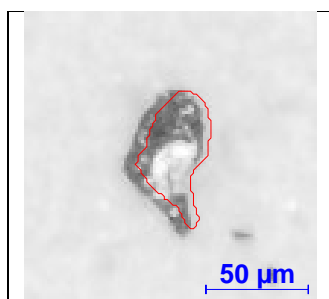
Particle ID: 3716
Length [μm]: 75.86



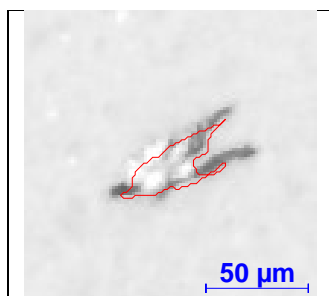
Particle ID: 3753
Length [μm]: 72.74



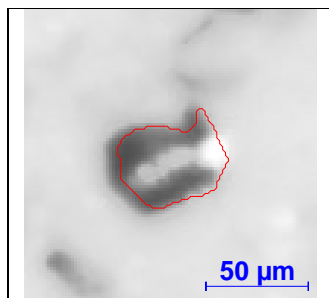
Particle ID: 3351
Length [μm]: 72.12



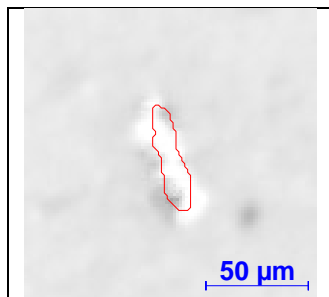
Particle ID: 1771
Length [μm]: 68.95



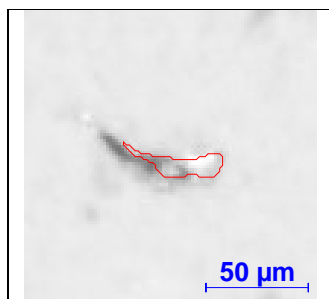
Particle ID: 2770
Length [μm]: 65.28



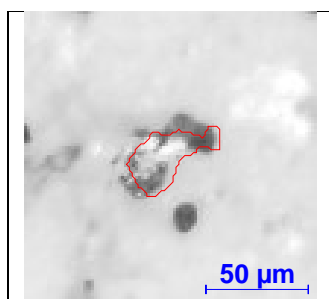
Particle ID: 5016
Length [μm]: 56.24



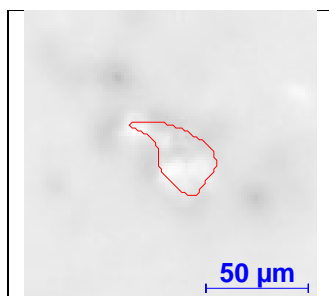
Particle ID: 6885
Length [μm]: 55.44



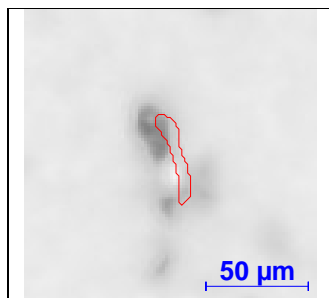
Particle ID: 6892
Length [μm]: 51.51



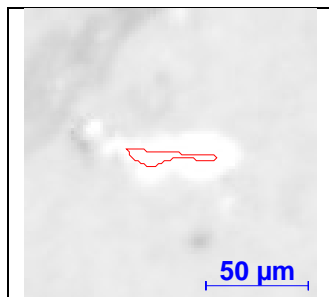
Particle ID: 2585
Length [μm]: 51.39



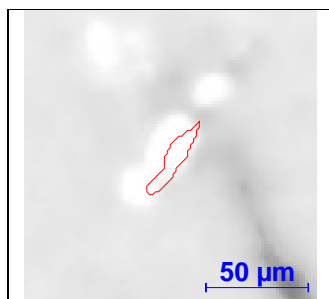
Particle ID: 5904
Length [μm]: 49.47



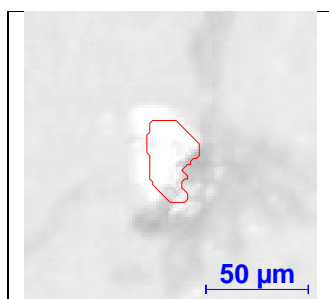
Particle ID: 1047
Length [μm]: 47.38



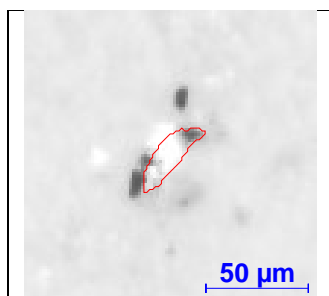
Particle ID: 6610
Length [μm]: 45.96



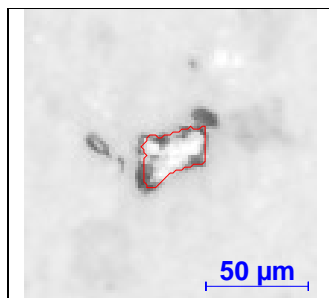
Particle ID: 6178
Length [μm]: 45.07



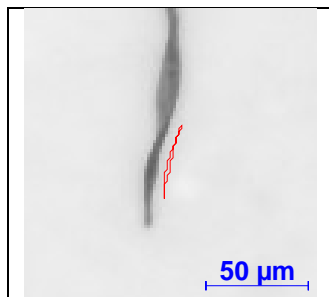
Particle ID: 380
Length [μm]: 44.73



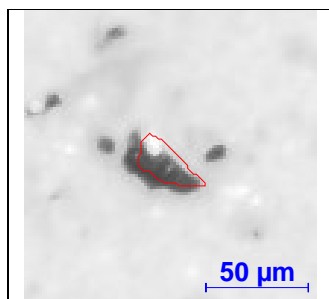
Particle ID: 4216
Length [μm]: 44.35



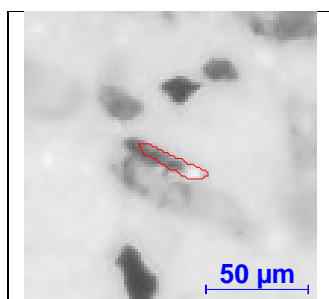
Particle ID: 6652
Length [μm]: 43.35



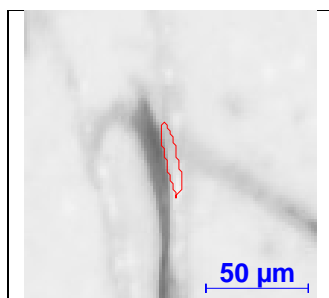
Particle ID: 696
Length [μm]: 42.88



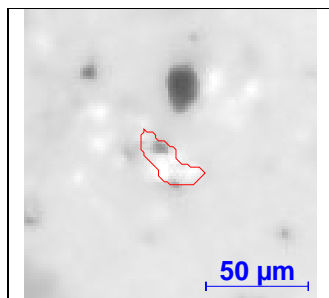
Particle ID: 808
Length [μm]: 39.93



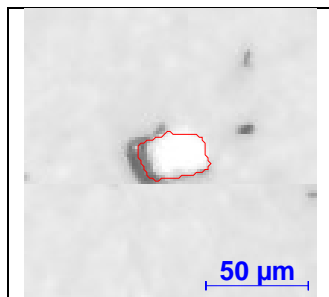
Particle ID: 2219
Length [μm]: 39.52



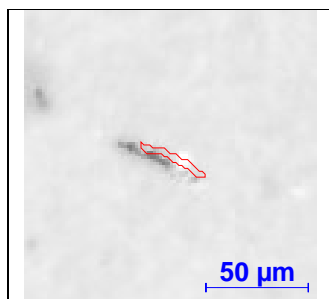
Particle ID: 575
Length [μm]: 39.14



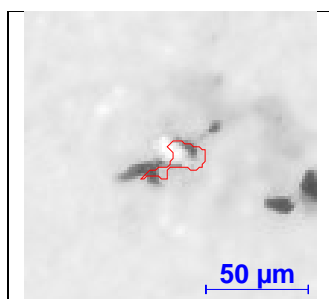
Particle ID: 2931
Length [μm]: 38.77



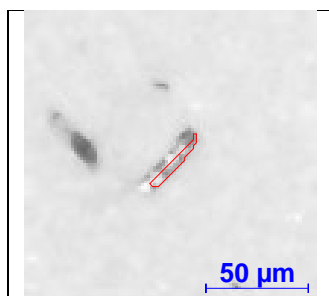
Particle ID: 1449
Length [μm]: 38.38



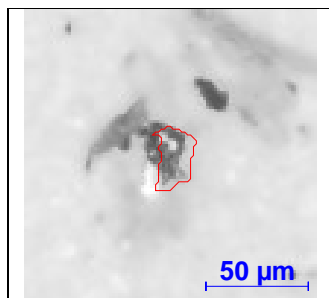
Particle ID: 1518
Length [μm]: 37.66



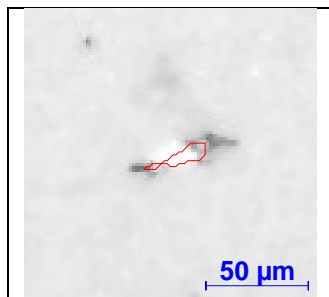
Particle ID: 1015
Length [μm]: 36.34



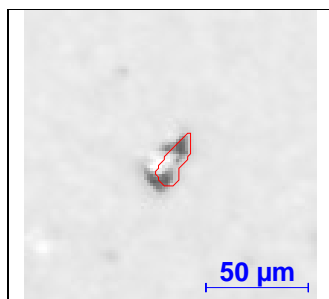
Particle ID: 1442
Length [μm]: 36.34



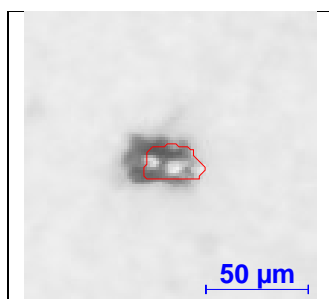
Particle ID: 1833
Length [μm]: 34.94



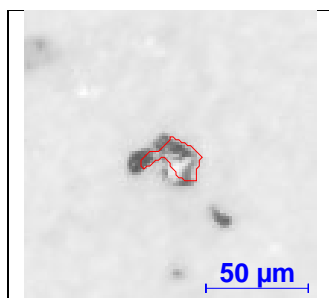
Particle ID: 1421
Length [μm]: 34.44



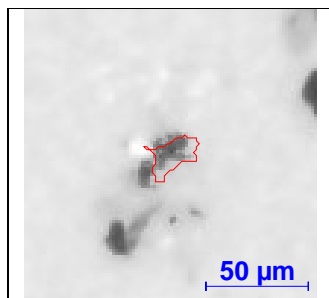
Particle ID: 2366
Length [μm]: 31.87



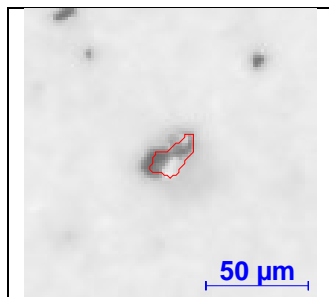
Particle ID: 475
Length [μm]: 31.87



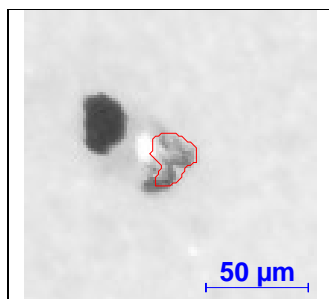
Particle ID: 3758
Length [μm]: 31.87



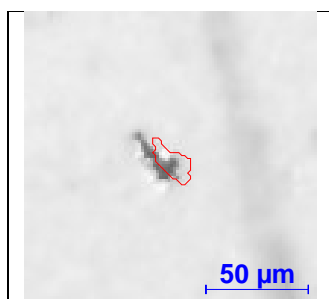
Particle ID: 3961
Length [μm]: 31.39



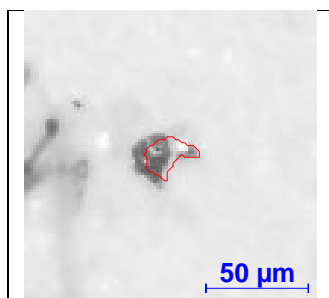
Particle ID: 3638
Length [μm]: 30.50



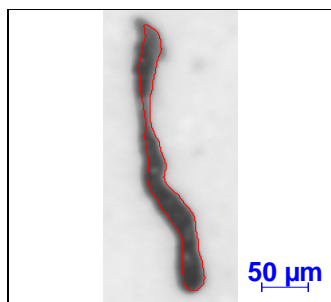
Particle ID: 2783
Length [μm]: 30.30



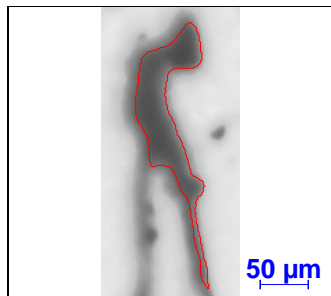
Particle ID: 1034
Length [μm]: 30.07



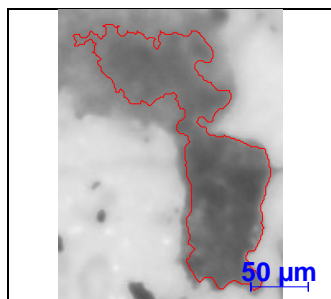
Particle ID: 6087
Length [μm]: 29.97

Gallery of non-reflective particles

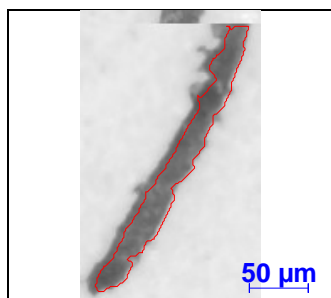
Particle ID: 6655
Length [μm]: 287.91



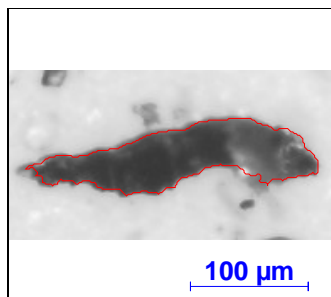
Particle ID: 1090
Length [μm]: 275.91



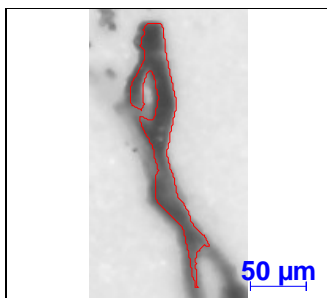
Particle ID: 3674
Length [μm]: 273.10



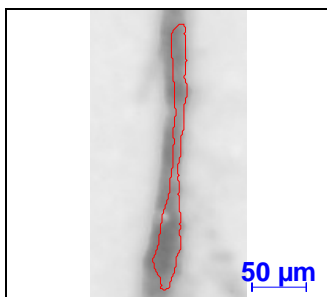
Particle ID: 3367
Length [μm]: 259.17



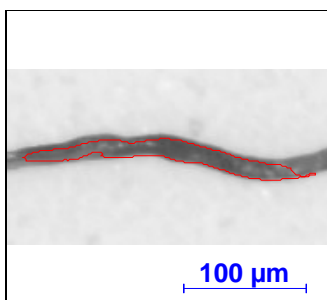
Particle ID: 4040
Length [μm]: 250.92



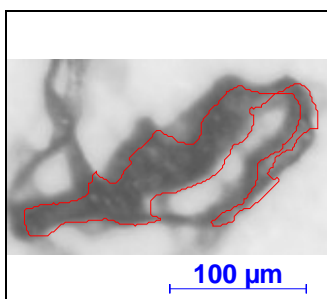
Particle ID: 2401
Length [µm]: 245.15



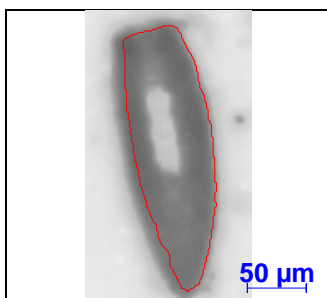
Particle ID: 427
Length [µm]: 243.11



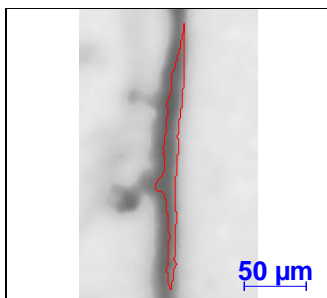
Particle ID: 6358
Length [µm]: 241.38



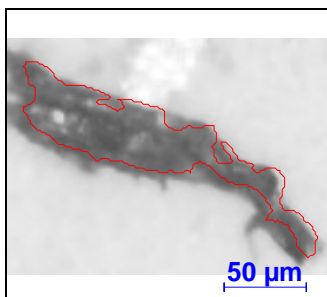
Particle ID: 615
Length [µm]: 233.30



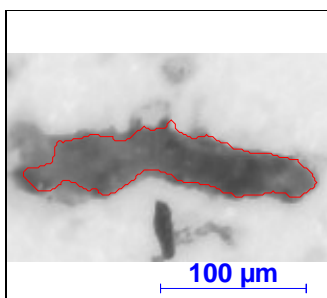
Particle ID: 5572
Length [µm]: 229.19



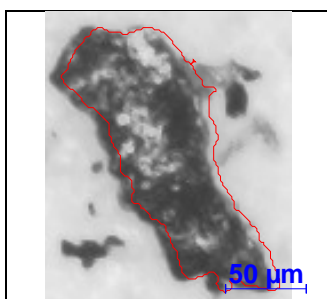
Particle ID: 1146
Length [µm]: 214.17



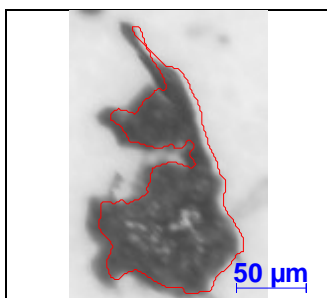
Particle ID: 4678
Length [µm]: 211.89



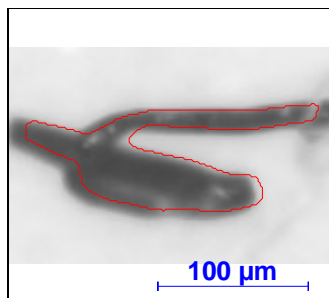
Particle ID: 2127
Length [µm]: 202.57



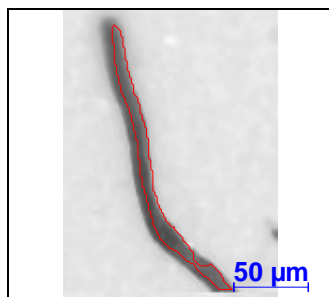
Particle ID: 4315
Length [µm]: 200.98



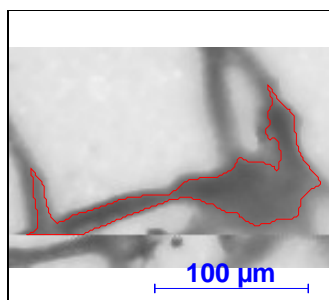
Particle ID: 497
Length [µm]: 199.32



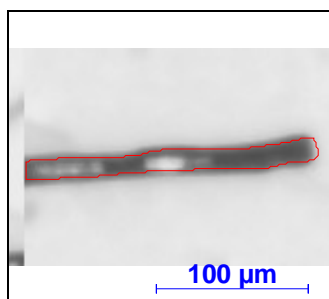
Particle ID: 650
Length [μm]: 196.59



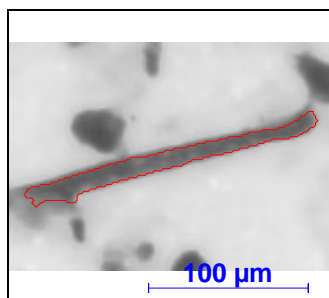
Particle ID: 4136
Length [μm]: 195.80



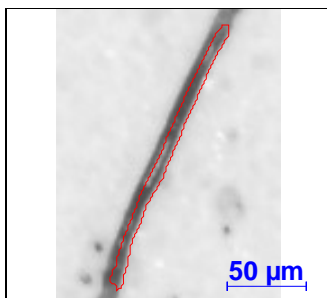
Particle ID: 2444
Length [μm]: 195.68



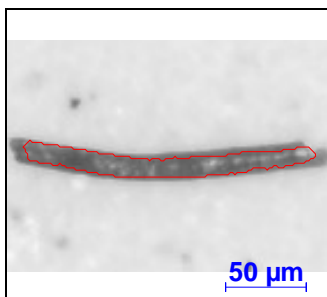
Particle ID: 639
Length [μm]: 195.18



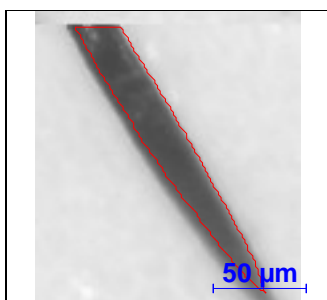
Particle ID: 3330
Length [μm]: 191.51



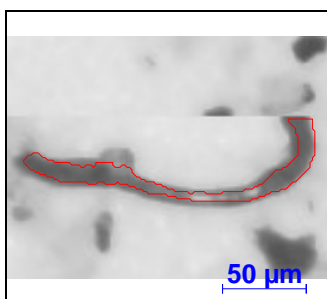
Particle ID: 4975
Length [µm]: 184.52



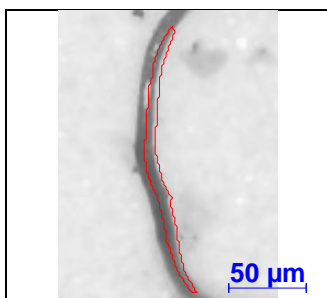
Particle ID: 1583
Length [µm]: 182.57



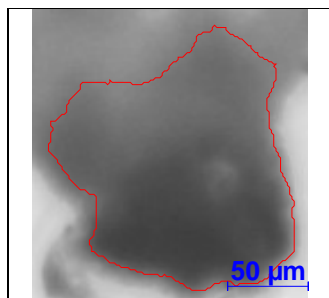
Particle ID: 4786
Length [µm]: 177.61



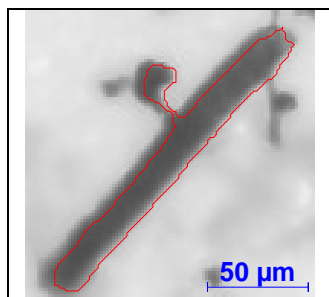
Particle ID: 3271
Length [µm]: 175.89



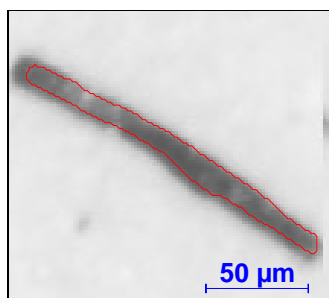
Particle ID: 6474
Length [µm]: 174.73



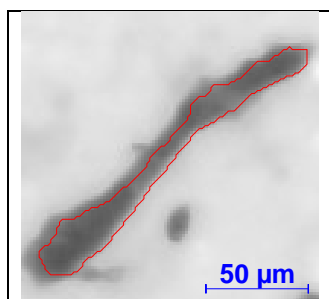
Particle ID: 3655
Length [μm]: 174.73



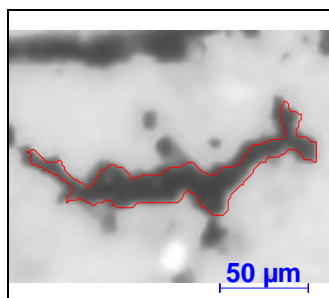
Particle ID: 2924
Length [μm]: 171.62



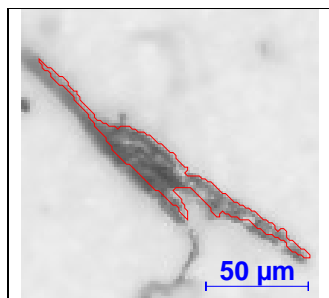
Particle ID: 46
Length [μm]: 170.42



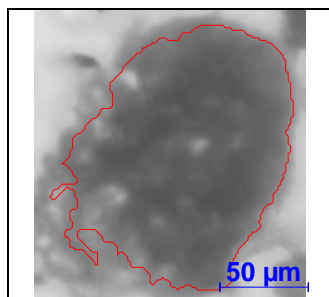
Particle ID: 4961
Length [μm]: 170.08



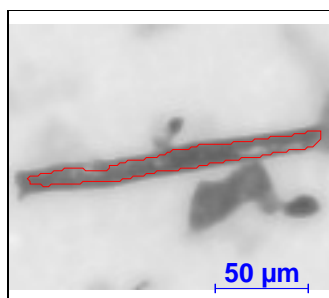
Particle ID: 4443
Length [μm]: 166.91



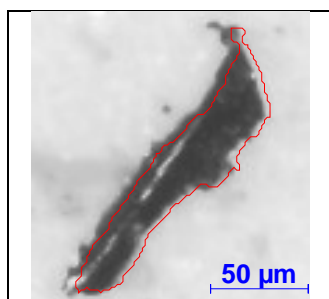
Particle ID: 3678
Length [µm]: 166.20



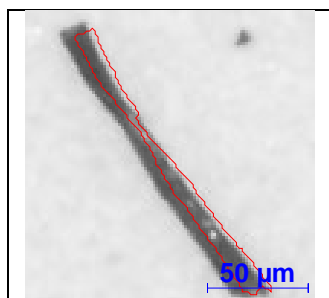
Particle ID: 3106
Length [µm]: 164.53



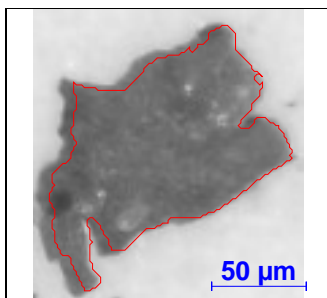
Particle ID: 3337
Length [µm]: 161.91



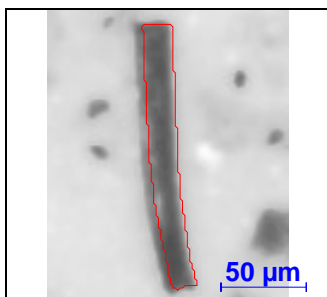
Particle ID: 2191
Length [µm]: 161.35



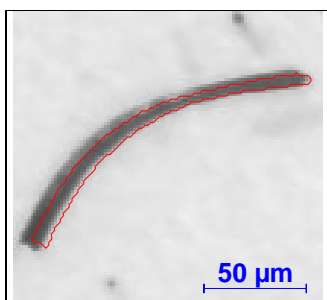
Particle ID: 6862
Length [µm]: 160.77



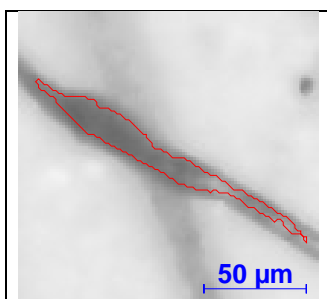
Particle ID: 6026
Length [μm]: 160.73



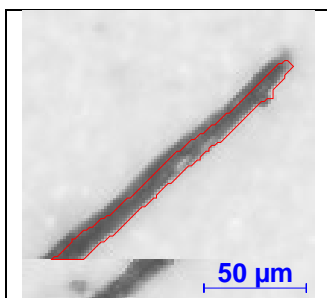
Particle ID: 3547
Length [μm]: 159.64



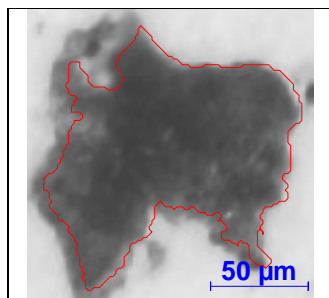
Particle ID: 2330
Length [μm]: 159.64



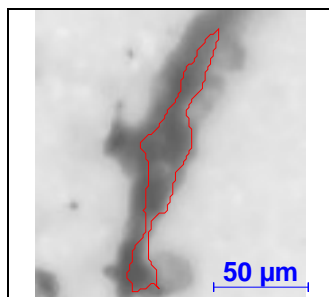
Particle ID: 4950
Length [μm]: 157.91



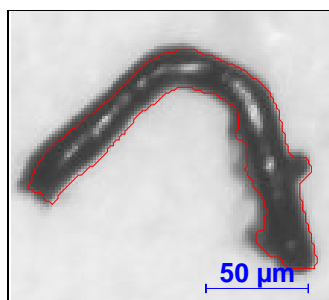
Particle ID: 4747
Length [μm]: 153.14



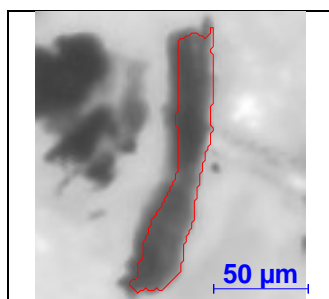
Particle ID: 571
Length [μm]: 151.51



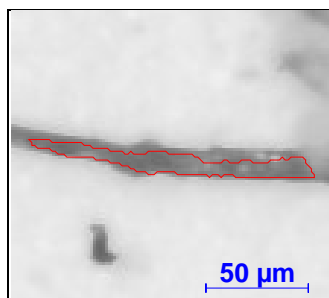
Particle ID: 1796
Length [μm]: 149.19



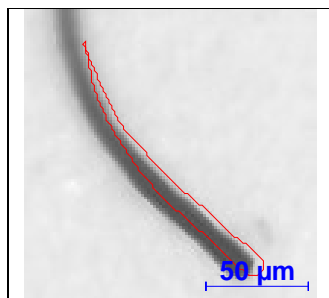
Particle ID: 6745
Length [μm]: 148.01



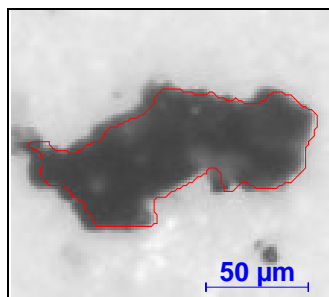
Particle ID: 3212
Length [μm]: 147.03



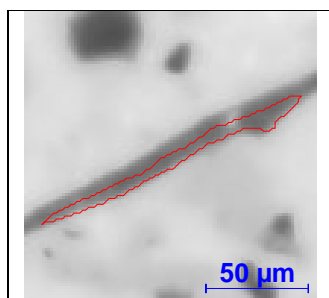
Particle ID: 1965
Length [μm]: 144.13



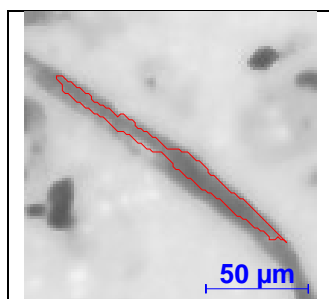
Particle ID: 215
Length [μm]: 143.67



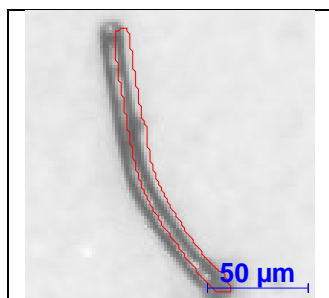
Particle ID: 1325
Length [μm]: 143.55



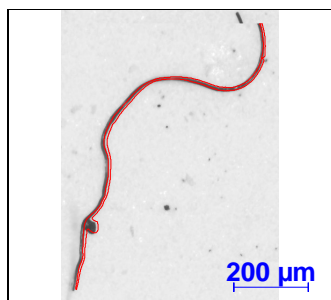
Particle ID: 1351
Length [μm]: 143.42



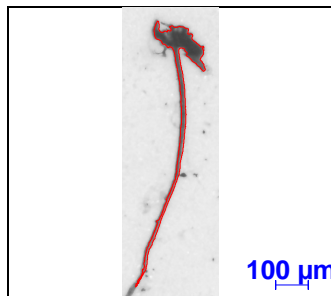
Particle ID: 3016
Length [μm]: 142.83



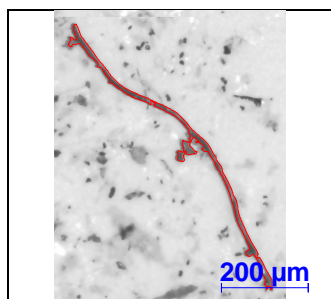
Particle ID: 1951
Length [μm]: 142.65

Gallery of fibrous particles

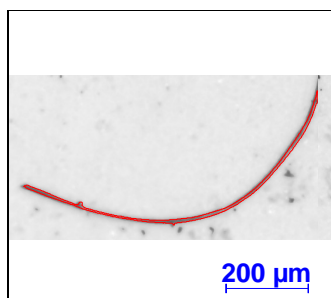
Particle ID: 263
Length [μm]: 866.41



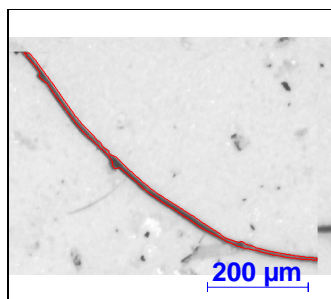
Particle ID: 2816
Length [μm]: 815.50



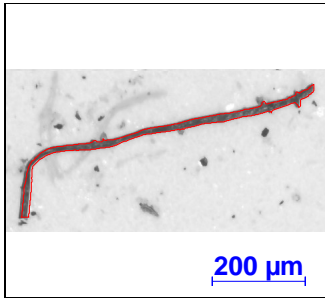
Particle ID: 3535
Length [μm]: 760.24



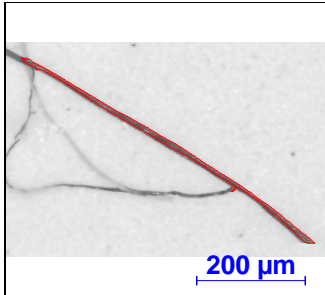
Particle ID: 5471
Length [μm]: 755.87



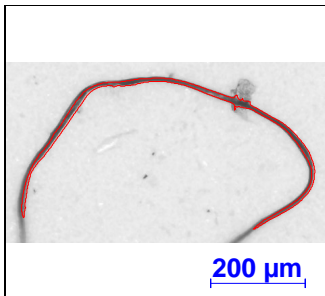
Particle ID: 2625
Length [μm]: 711.81



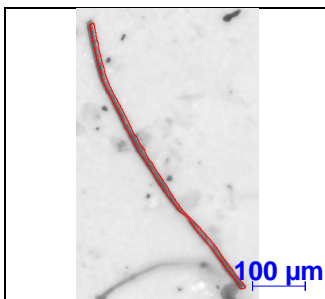
Particle ID: 2573
Length [μm]: 690.88



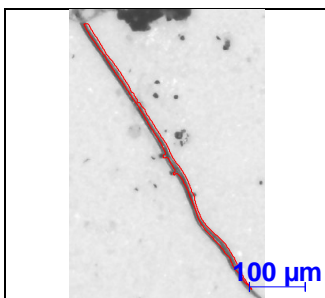
Particle ID: 528
Length [μm]: 643.77



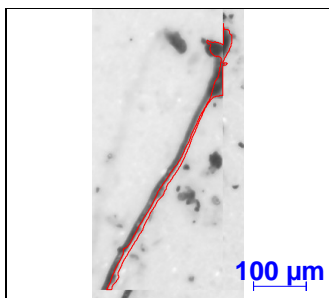
Particle ID: 191
Length [μm]: 627.68



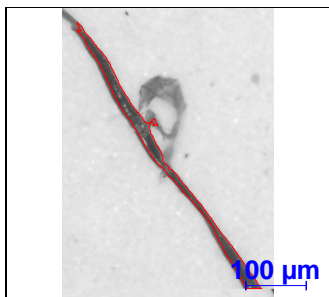
Particle ID: 2199
Length [μm]: 587.88



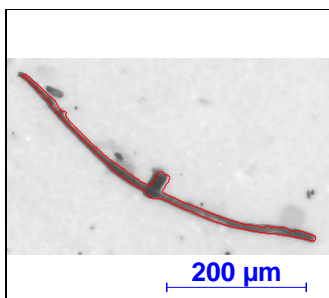
Particle ID: 1423
Length [μm]: 570.20



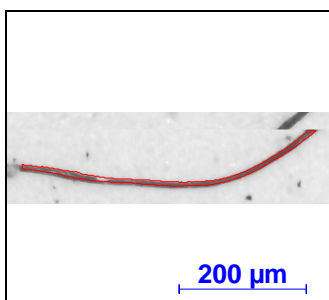
Particle ID: 1158
Length [μm]: 550.08



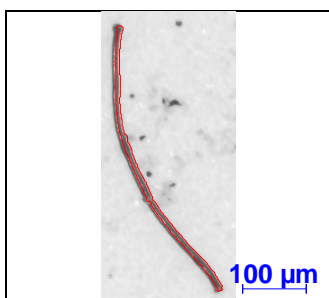
Particle ID: 4749
Length [μm]: 529.41



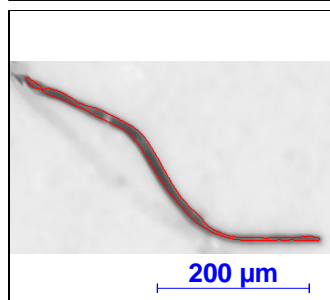
Particle ID: 2316
Length [μm]: 483.70



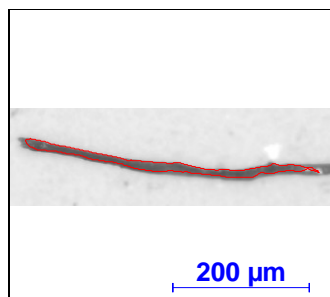
Particle ID: 4771
Length [μm]: 465.66



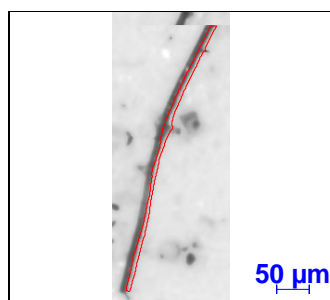
Particle ID: 2654
Length [μm]: 451.80



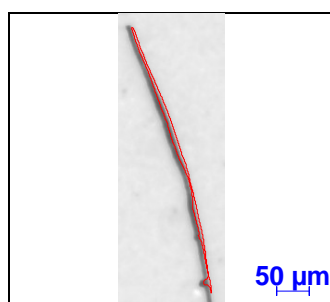
Particle ID: 4853
Length [μm]: 440.76



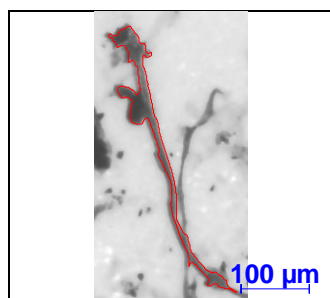
Particle ID: 6910
Length [μm]: 435.97



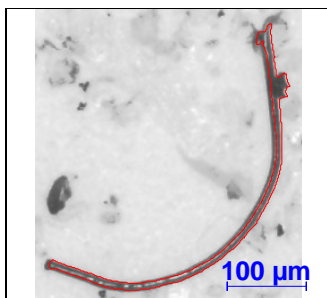
Particle ID: 1230
Length [μm]: 429.99



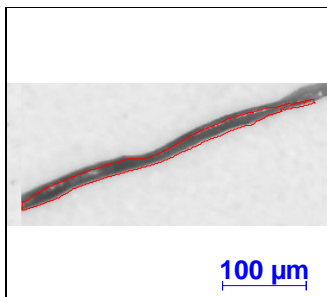
Particle ID: 965
Length [μm]: 427.45



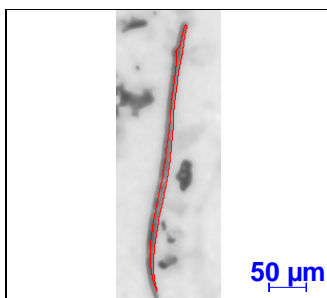
Particle ID: 3956
Length [μm]: 425.79



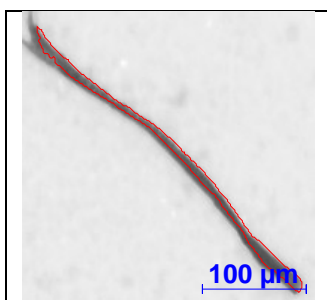
Particle ID: 2412
Length [μm]: 415.72



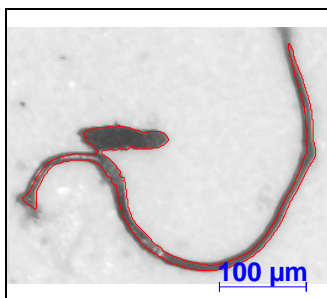
Particle ID: 6372
Length [μm]: 377.19



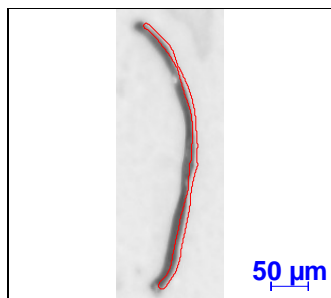
Particle ID: 718
Length [μm]: 365.78



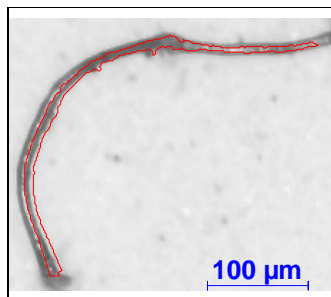
Particle ID: 948
Length [μm]: 358.79



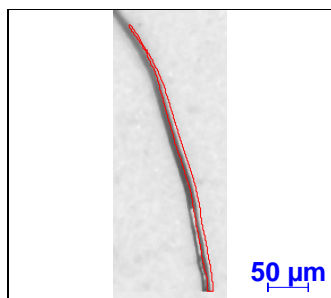
Particle ID: 3651
Length [μm]: 358.35



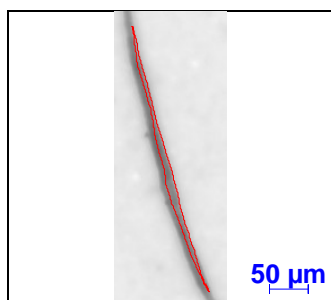
Particle ID: 568
Length [µm]: 355.83



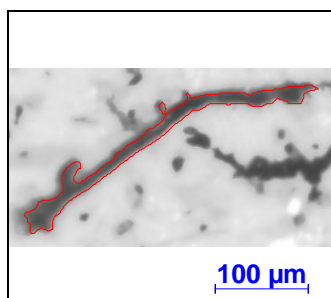
Particle ID: 1608
Length [µm]: 351.86



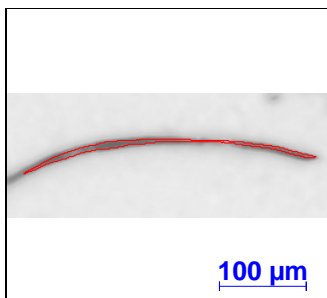
Particle ID: 4746
Length [µm]: 351.58



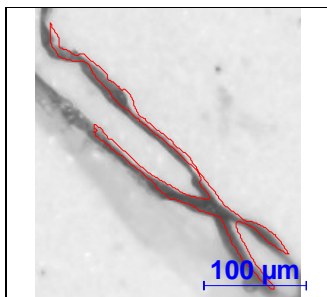
Particle ID: 486
Length [µm]: 350.85



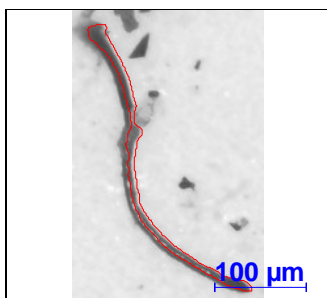
Particle ID: 4464
Length [µm]: 348.67



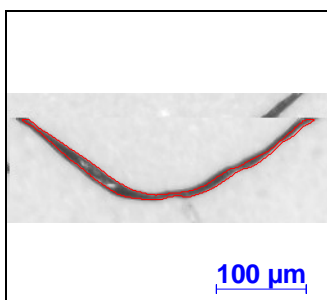
Particle ID: 6215
Length [µm]: 341.40



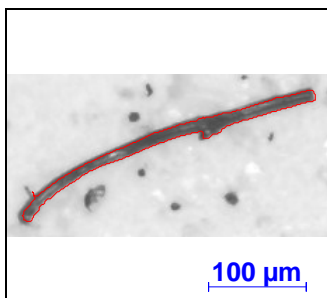
Particle ID: 1581
Length [µm]: 339.80



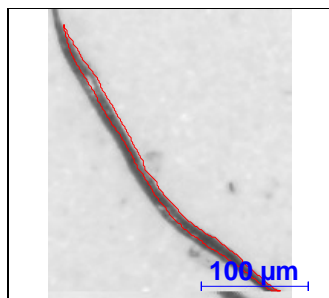
Particle ID: 6079
Length [µm]: 339.32



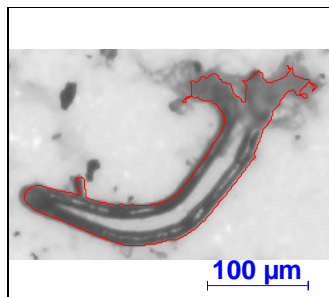
Particle ID: 3298
Length [µm]: 326.40



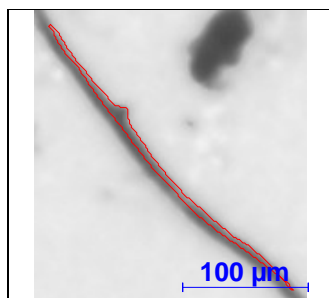
Particle ID: 5989
Length [µm]: 324.32



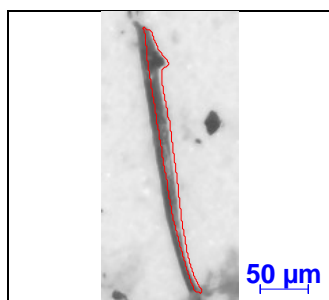
Particle ID: 3245
Length [µm]: 322.11



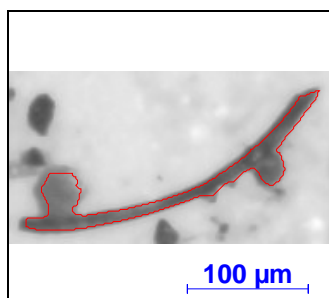
Particle ID: 2894
Length [µm]: 314.98



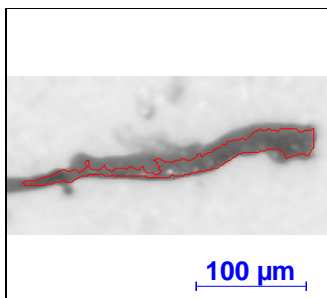
Particle ID: 866
Length [µm]: 286.48



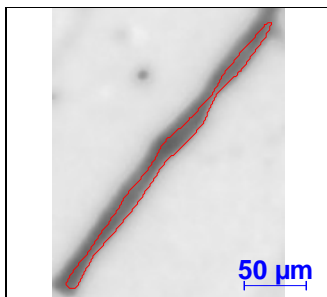
Particle ID: 1315
Length [µm]: 282.91



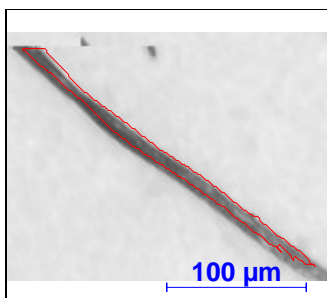
Particle ID: 3404
Length [µm]: 270.37



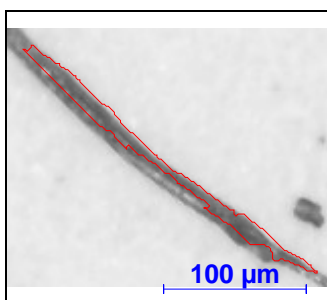
Particle ID: 6909
Length [µm]: 270.16



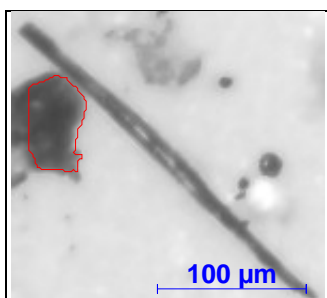
Particle ID: 1147
Length [µm]: 267.39



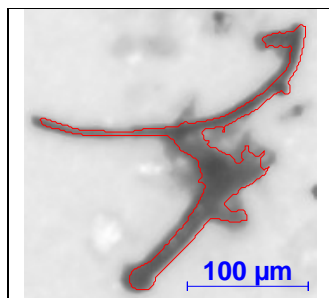
Particle ID: 543
Length [µm]: 262.83



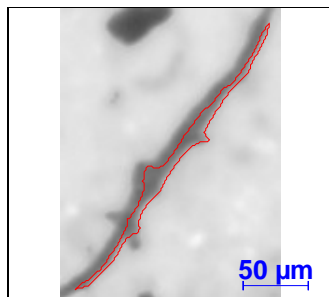
Particle ID: 2135
Length [µm]: 261.39



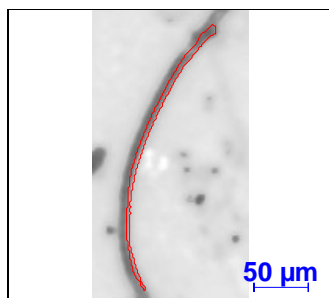
Particle ID: 3195
Length [µm]: 260.31



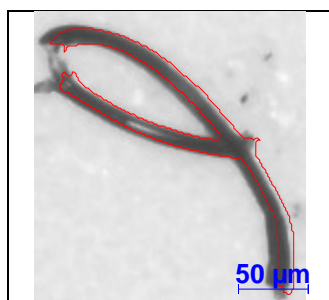
Particle ID: 4674
Length [µm]: 260.11



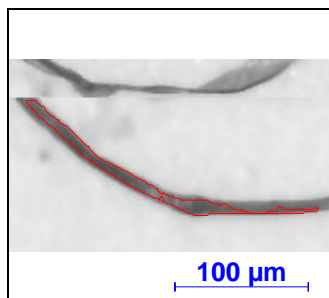
Particle ID: 1338
Length [µm]: 252.86



Particle ID: 762
Length [µm]: 250.63



Particle ID: 1696
Length [µm]: 250.46



Particle ID: 4173
Length [µm]: 235.87

Membrane filter