# Spectrophotometer Report

This is a sample spectrophotometer report.

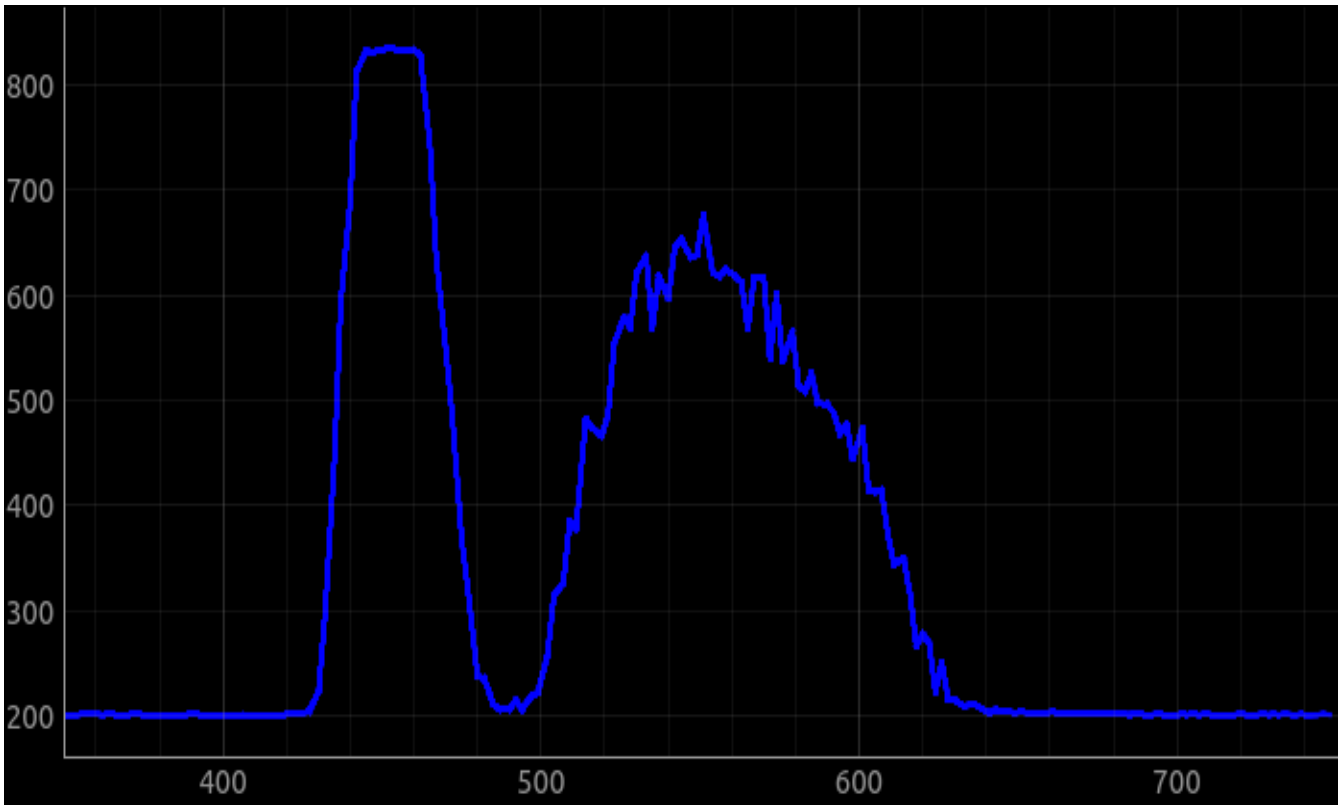
Data Table:
Sample Name: Sample 1
User: John Doe
Manufacturer
Model
Serial Number
Wavelength Range: 300 - 750 nm

Date: 2021-01-01
Baseline Correction: Yes
Date: 2021-01-01
Laboratory: Indicasat AIP
Location: Panama City, Panama
Light Source: Tungsten Lamp
Detector: Photodiode

## Test condition

Temperature: 25°C
Humidity: 50%
WL Range: 300 - 750 nm
Scan Speed: 100 nm/sec
Test mode: Single
Scan Mode: Absorbance

## Graph:



# Parameters:

## Statistical Parameters:

Mean: 0.5

Standard Deviation: 0.1

Variance: 0.01

Skewness: 0.0

Kurtosis: 0.0

Median: 0.5

Mode: 0.5

Range: 0.9

Minimum: 0.1

Maximum: 1.0

## Photometric Parameters:

Luminous Flux: 1000 lm

Luminous Intensity: 100 cd

Luminance: 100 cd/m2

Illuminance: 100 lux

Luminous Efficacy: 10 lm/W

## Electrical Parameters:

Voltage: 120 V

Current: 1 A

Power: 100 W

Power Factor: 0.9

Frequency: 60 Hz

## Colorimetric Parameters:

Chromaticity Coordinate (X-axis): 0.30053

Chromaticity Coordinate (Y-axis): 0.3205

CCT: 7015K

Prcp WL: - Ld: 485.6nm

Purity: 10.5%

Peak WL: - Lp: 570.0nm

FWHM: 570.0nm

Ratio (Red): 13.9%

Ratio (Green): 86.1%

Ratio (Blue): 0.0%

Render Index (Ra): 0.0

EEI: 0.00015

R1: 88

R2: 0.0

R3: 0.0

R4: 0.0

R5: 0.0

R6: 0.0

R7: 0.0

R8: 0.0

R9: 0.0

R10: 0.0

R11: 0.0

R12: 0.0

R13: 0.0

R14: 0.0

R15: 0.0

# Measured Data:

| WL (nm) | Abs (dB) | T (I/Io) |
|---|---|---|
| 370 | 0.97 | 37.95 |
| 498 | 0.49 | 16.66 |
| 715 | 0.79 | 47.14 |
| 477 | 0.42 | 14.02 |
| 507 | 0.73 | 54.82 |
| 689 | 1.26 | 39.86 |
| 608 | 1.48 | 60.33 |
| 423 | 1.8 | 49.99 |
| 497 | 1.4 | 60.37 |
| 581 | 0.82 | 50.89 |
| 669 | 0.53 | 77.52 |
| 566 | 0.81 | 8.24 |
| 349 | 0.38 | 48.63 |
| 511 | 0.7 | 77.53 |
| 679 | 1.62 | 46.68 |
| 336 | 1.12 | 12.52 |
| 630 | 1.38 | 47.47 |
| 662 | 0.99 | 68.7 |
| 374 | 1.91 | 89.2 |
| 566 | 1.99 | 76.82 |
| 735 | 0.35 | 24.6 |
| 741 | 1.17 | 39.16 |
| 413 | 1.09 | 52.2 |
| 377 | 1.61 | 32.56 |
| 746 | 1.18 | 78.16 |
| 473 | 1.07 | 91.76 |
| 395 | 0.78 | 78.55 |
| 559 | 1.07 | 90.26 |
| 562 | 1.29 | 66.47 |
| 500 | 1.03 | 72.18 |
| 324 | 0.72 | 43.67 |
| 724 | 1.83 | 71.71 |
| 401 | 0.61 | 40.18 |
| 639 | 0.83 | 17.9 |
| 655 | 1.57 | 34.86 |

| WL (nm) | Abs (dB) | T (I/Io) |
|---|---|---|
| 373 | 0.87 | 8.31 |
| 397 | 1.19 | 76.15 |
| 383 | 1.31 | 8.1 |
| 515 | 0.47 | 58.82 |
| 646 | 1.54 | 74.3 |
| 644 | 1.95 | 52.14 |
| 480 | 1.68 | 86.06 |
| 413 | 0.86 | 53.14 |
| 424 | 1.61 | 21.94 |
| 457 | 0.12 | 49.81 |
| 575 | 0.89 | 64.1 |
| 598 | 0.14 | 27.32 |
| 731 | 0.54 | 27.87 |
| 335 | 1.77 | 81.55 |
| 646 | 0.26 | 88.72 |
| 401 | 0.66 | 70.07 |
| 300 | 1.65 | 85.87 |
| 571 | 0.7 | 85.54 |
| 435 | 0.36 | 18.35 |
| 308 | 1.65 | 56.16 |
| 712 | 0.42 | 47.9 |
| 728 | 1.09 | 92.77 |
| 318 | 0.54 | 63.31 |
| 400 | 1.84 | 64.64 |
| 648 | 0.68 | 94.91 |
| 351 | 0.26 | 20.46 |
| 503 | 0.56 | 72.02 |
| 440 | 1.17 | 23.21 |
| 653 | 1.33 | 59.36 |
| 566 | 0.64 | 74.63 |
| 457 | 0.78 | 12.06 |
| 534 | 1.16 | 90.05 |
| 636 | 1.73 | 24.79 |
| 309 | 0.88 | 56.08 |
| 705 | 0.31 | 54.03 |

| WL (nm) | Abs (dB) | T (I/Io) |
|---|---|---|
| 666 | 1.66 | 75.59 |
| 333 | 0.3 | 35.82 |
| 407 | 1.88 | 63.34 |
| 360 | 0.36 | 84.49 |
| 582 | 1.79 | 55.14 |
| 303 | 1.11 | 50.85 |
| 637 | 1.81 | 90.6 |
| 700 | 1.56 | 10.24 |
| 451 | 0.62 | 39.52 |
| 398 | 1.47 | 40.95 |
| 731 | 1.97 | 8.27 |
| 688 | 0.62 | 8.28 |
| 748 | 1.76 | 31.58 |
| 390 | 1.62 | 70.38 |
| 398 | 0.5 | 73.88 |
| 353 | 1.88 | 54.15 |
| 361 | 0.23 | 68.59 |
| 358 | 1.26 | 60.59 |
| 507 | 0.71 | 34.06 |
| 747 | 1.5 | 91.2 |
| 358 | 1.53 | 8.59 |
| 469 | 0.83 | 86.6 |
| 614 | 1.87 | 81.86 |
| 716 | 0.92 | 49.32 |
| 569 | 0.6 | 94.78 |
| 634 | 1.52 | 89.54 |
| 610 | 0.55 | 82.85 |
| 422 | 1.98 | 82.96 |
| 589 | 0.14 | 24.92 |
| 527 | 0.51 | 8.17 |
| 510 | 0.24 | 6.23 |
| 492 | 1.24 | 68.11 |
| 365 | 0.76 | 30.52 |
| 577 | 1.53 | 82.38 |
| 387 | 1.87 | 62.38 |

# Measured Data (cont):

| WL (nm) | Abs (dB) | T (I/Io) |
|---|---|---|
| 524 | 1.32 | 8.05 |
| 563 | 0.18 | 92.29 |
| 378 | 1.16 | 85.17 |
| 361 | 1.38 | 43.47 |
| 530 | 1.87 | 35.34 |
| 525 | 1.53 | 68.59 |
| 396 | 0.28 | 50.46 |
| 536 | 1.36 | 54.82 |
| 331 | 1.55 | 77.06 |
| 628 | 1.6 | 29.05 |
| 672 | 1.0 | 83.76 |
| 352 | 1.22 | 66.02 |
| 640 | 0.23 | 29.4 |
| 681 | 1.99 | 42.16 |
| 415 | 1.5 | 33.89 |
| 439 | 1.04 | 82.59 |
| 634 | 1.73 | 7.99 |
| 324 | 1.15 | 56.97 |
| 348 | 1.33 | 52.61 |
| 491 | 1.03 | 28.4 |
| 592 | 1.84 | 53.34 |
| 679 | 1.59 | 63.52 |
| 346 | 0.51 | 66.64 |
| 384 | 0.73 | 10.35 |
| 377 | 1.05 | 41.49 |
| 414 | 0.16 | 36.86 |
| 510 | 1.26 | 13.99 |
| 658 | 0.12 | 49.62 |
| 398 | 0.78 | 51.03 |
| 566 | 0.94 | 14.04 |
| 495 | 1.12 | 51.46 |
| 372 | 1.61 | 50.38 |
| 592 | 1.64 | 93.52 |
| 646 | 1.76 | 40.84 |
| 678 | 1.18 | 52.06 |

| WL (nm) | Abs (dB) | T (I/Io) |
|---|---|---|
| 427 | 1.88 | 62.7 |
| 383 | 0.37 | 42.84 |
| 490 | 1.5 | 41.21 |
| 395 | 1.78 | 23.18 |
| 512 | 1.9 | 64.46 |
| 602 | 0.36 | 67.49 |
| 649 | 1.59 | 72.65 |
| 745 | 0.45 | 87.55 |
| 530 | 0.37 | 69.49 |
| 688 | 0.53 | 44.5 |
| 551 | 1.02 | 42.37 |
| 346 | 0.12 | 7.32 |
| 419 | 0.23 | 15.06 |
| 613 | 1.93 | 44.66 |
| 449 | 1.67 | 38.44 |
| 618 | 1.12 | 92.14 |
| 437 | 0.84 | 11.77 |
| 643 | 1.6 | 73.71 |
| 585 | 1.37 | 81.05 |
| 549 | 1.52 | 72.0 |
| 375 | 1.42 | 38.2 |
| 331 | 1.13 | 90.39 |
| 431 | 1.17 | 94.19 |
| 379 | 1.32 | 56.12 |
| 343 | 1.17 | 15.65 |
| 741 | 1.56 | 14.52 |
| 537 | 1.37 | 87.3 |
| 719 | 0.28 | 66.34 |
| 379 | 1.08 | 45.27 |
| 715 | 1.09 | 56.59 |
| 453 | 1.09 | 76.06 |
| 647 | 1.78 | 82.17 |
| 690 | 1.85 | 19.86 |
| 583 | 1.26 | 64.75 |
| 528 | 0.43 | 17.33 |

| WL (nm) | Abs (dB) | T (I/Io) |
|---|---|---|
| 604 | 1.49 | 83.78 |
| 570 | 1.83 | 55.54 |
| 594 | 0.36 | 35.44 |
| 692 | 1.07 | 21.68 |
| 482 | 1.43 | 21.7 |
| 584 | 1.81 | 14.05 |
| 445 | 0.28 | 71.78 |
| 614 | 1.53 | 80.88 |
| 360 | 1.95 | 80.56 |
| 492 | 1.86 | 61.71 |
| 538 | 0.68 | 66.0 |
| 672 | 0.52 | 75.65 |
| 748 | 0.3 | 5.32 |
| 310 | 0.47 | 22.84 |
| 599 | 1.93 | 40.96 |
| 698 | 0.8 | 63.22 |
| 551 | 0.25 | 59.36 |
| 502 | 1.57 | 85.07 |
| 334 | 1.8 | 19.46 |
| 618 | 0.85 | 21.1 |
| 536 | 1.75 | 71.37 |
| 749 | 0.18 | 66.89 |
| 634 | 0.35 | 23.15 |
| 747 | 1.86 | 62.47 |
| 570 | 1.14 | 8.91 |
| 525 | 0.94 | 17.17 |
| 339 | 1.02 | 54.08 |
| 648 | 1.82 | 12.45 |
| 551 | 0.69 | 8.52 |
| 708 | 1.55 | 17.3 |
| 545 | 1.64 | 45.38 |
| 452 | 0.82 | 42.73 |
| 364 | 0.5 | 29.83 |
| 511 | 1.66 | 79.79 |
| 325 | 0.83 | 62.7 |