

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.1207 4e-01	9.1378 4e-01	9.1642 7e-01	9.1799 3e-01	9.1911 7e-01	9.1990 9e-01	9.2036 4e-01	9.2067 5e-01
Number of Measurements	2	2	2	2	2	2	2	2
Temperature	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Type A Uncertainty ^(b)	3.9e-05	3.3e-05	3.0e-05	3.6e-05	5.1e-05	5.5e-05	4.2e-05	3.4e-05
Type B Uncertainty ^(c)	1.1e-04	1.1e-04	9.7e-05	7.6e-05	6.2e-05	4.6e-05	5.6e-05	5.9e-05
Total Uncertainty ^(d)	1.2e-04	1.2e-04	1.0e-04	8.4e-05	8.0e-05	7.2e-05	7.0e-05	6.8e-05
Degrees of Freedom	26.2	24.3	24.1	28.9	42.1	46.3	39.4	33.7
Date	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	9.0e-08	7.4e-08	4.9e-08	3.4e-08	2.4e-08	1.6e-08	1.2e-08	8.8e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.7e-05	7.6e-05	6.1e-05	4.6e-05	5.6e-05	5.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.5e-05	1.2e-05	5.2e-06	4.0e-06	4.3e-06	5.0e-06	4.4e-06	5.3e-06
Total Type B Uncertainty	1.1e-04	1.1e-04	9.7e-05	7.6e-05	6.2e-05	4.6e-05	5.6e-05	5.9e-05
Degrees of Freedom	20.8	20.5	20.1	20.2	20.2	20.5	20.3	20.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.1003 1e-01	6.0914 3e-01	6.2263 5e-01	6.1067 7e-01	6.3813 0e-01	5.7763 4e-01	5.0277 3e-01	4.5445 3e-01
Number of Measurements	2	2	2	2	2	2	2	2
Temperature	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Type A Uncertainty ^(b)	1.7e-04	4.7e-05	3.4e-05	2.4e-05	2.4e-05	2.3e-05	2.3e-05	2.6e-05
Type B Uncertainty ^(c)	5.1e-04	1.3e-04	1.3e-04	7.4e-05	6.6e-05	1.1e-04	8.5e-05	4.9e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.4	30.1	23.1	29.7	28.7	26.0	27.3	39.2
Date	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.3e-06	2.0e-05	8.0e-06	2.1e-05	1.1e-05	5.2e-06	2.0e-06	6.6e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.5e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.0e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.1e-04	1.3e-04	1.3e-04	7.0e-05	6.4e-05	1.0e-04	8.1e-05	4.6e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.7e-05	2.1e-05	9.1e-06	6.8e-06	7.7e-06	8.0e-06	6.2e-06	6.7e-06
Total Type B Uncertainty	5.1e-04	1.3e-04	1.3e-04	7.4e-05	6.6e-05	1.1e-04	8.5e-05	4.9e-05
Degrees of Freedom	26.7	24.1	20.5	24.5	22.9	23.7	23.9	25.9

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Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1815 3e-02	9.6350 7e-02	9.2839 4e-02	7.7808 1e-02	1.6252 2e-01	1.5121 1e-01	1.0368 2e-01	7.7247 6e-02
Number of Measurements	2	2	2	2	2	2	2	2
Temperature	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Type A Uncertainty ^(b)	3.2e-05	1.6e-05	5.2e-06	6.9e-06	2.0e-05	6.7e-06	5.8e-06	4.9e-06
Type B Uncertainty ^(c)	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.4e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.6e-05	5.0e-05	1.9e-05	2.0e-05	5.7e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.5	54.6	62.6	104.5	28.0	43.7	37.9	50.4
Date	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.3e-06	1.7e-05	6.9e-06	1.6e-05	1.3e-05	5.2e-06	1.5e-06	3.9e-06
Wavelength	8.6e-05	3.7e-05	1.3e-05	7.4e-06	5.2e-05	1.9e-05	1.4e-05	5.4e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.0e-07	2.1e-06	2.1e-06	1.9e-06	2.8e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.8e-06	3.4e-06	5.1e-06	4.9e-06	4.1e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.8e-05	2.4e-05	9.2e-06	6.2e-06	0.0e+00	2.6e-05	2.3e-05	1.1e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.2e-06	4.3e-06	1.8e-06	1.1e-06	2.5e-06	2.7e-06	1.6e-06	1.5e-06
Total Type B Uncertainty	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.4e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	22.9	45.0	54.1	86.2	22.1	40.5	34.8	40.7

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.5966 2e-04	5.1435 1e-03	8.3638 2e-03	8.2691 9e-03	2.6339 9e-02	3.2046 3e-02	2.2407 9e-02	1.6583 9e-02
Number of Measurements	2	2	2	2	2	2	2	2
Temperature	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Type A Uncertainty ^(b)	1.4e-06	2.3e-06	6.6e-07	1.2e-06	4.2e-06	2.1e-06	3.1e-06	1.5e-06
Type B Uncertainty ^(c)	2.4e-06	6.9e-06	2.7e-06	4.1e-06	1.4e-05	9.1e-06	5.9e-06	3.1e-06
Total Uncertainty ^(d)	2.8e-06	7.3e-06	2.8e-06	4.3e-06	1.4e-05	9.4e-06	6.6e-06	3.5e-06
Degrees of Freedom	31.4	47.1	57.9	108.1	39.0	33.3	60.1	77.6
Date	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	7.8e-08	2.1e-06	1.3e-06	3.2e-06	4.3e-06	2.0e-06	5.3e-07	1.4e-06
Wavelength	2.4e-06	5.6e-06	8.7e-07	1.7e-06	1.2e-05	2.7e-06	3.1e-06	9.8e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.8e-08	2.6e-07	3.9e-07	3.8e-07	9.2e-07	1.1e-06	8.2e-07	6.5e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.9e-08	4.6e-07	6.9e-07	6.8e-07	1.6e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.5e-06	2.1e-06	1.8e-06	5.2e-06	8.2e-06	4.6e-06	2.3e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.5e-08	1.7e-07	1.2e-07	8.8e-08	3.0e-07	4.3e-07	2.6e-07	2.3e-07
Total Type B Uncertainty	2.4e-06	6.9e-06	2.7e-06	4.1e-06	1.4e-05	9.1e-06	5.9e-06	3.1e-06
Degrees of Freedom	19.1	38.9	51.8	93.5	33.0	30.1	41.4	57.5

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Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.41918e-05	3.35601e-04	9.31309e-04	9.95297e-04	5.02304e-03	9.64719e-03	8.41490e-03	7.11207e-03
Number of Measurements	2	2	2	2	2	2	2	2
Temperature	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
Type A Uncertainty ^(b)	1.1e-06	5.6e-07	3.2e-07	4.2e-07	1.6e-06	2.1e-06	2.5e-06	1.3e-06
Type B Uncertainty ^(c)	1.6e-07	5.8e-07	2.8e-07	6.6e-07	3.5e-06	1.3e-06	1.2e-06	1.4e-06
Total Uncertainty ^(d)	1.1e-06	8.1e-07	4.3e-07	7.8e-07	3.9e-06	2.5e-06	2.8e-06	1.9e-06
Degrees of Freedom	27.0	51.4	67.0	100.1	36.6	46.3	37.6	81.8
Date	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014	28-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NRC Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.5e-09	2.1e-07	2.1e-07	5.7e-07	1.2e-06	8.4e-07	2.5e-07	1.1e-06
Wavelength	1.6e-07	5.4e-07	1.2e-07	3.1e-07	3.2e-06	3.1e-07	7.6e-07	1.0e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.9e-09	3.3e-08	7.9e-08	8.4e-08	3.2e-07	5.4e-07	4.9e-07	4.3e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.7e-09	4.6e-08	1.1e-07	1.2e-07	4.6e-07	7.7e-07	6.9e-07	6.0e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.00E-09	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	7.3e-10	1.4e-08	1.7e-08	1.4e-08	7.4e-08	1.6e-07	1.3e-07	1.3e-07
Total Type B Uncertainty	1.6e-07	5.8e-07	2.8e-07	6.6e-07	3.5e-06	1.3e-06	1.2e-06	1.4e-06
Degrees of Freedom	19.0	25.6	88.3	74.6	25.9	57.2	42.5	71.0

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Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.1288 9e-01	9.1452 3e-01	9.1692 2e-01	9.1837 4e-01	9.1939 8e-01	9.2011 8e-01	9.2048 2e-01	9.2075 6e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.3	23.2	23.2	23.3	23.2	23.2	23.2
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.6e-04	1.5e-04	1.1e-04	8.4e-05	7.6e-05	6.7e-05	7.0e-05	7.3e-05
Total Uncertainty ^(d)	1.6e-04	1.5e-04	1.1e-04	8.9e-05	8.6e-05	8.1e-05	7.8e-05	7.9e-05
Degrees of Freedom	46.4	43.6	29.3	32.0	44.8	59.3	45.2	44.8
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.3e-08	6.7e-08	4.5e-08	3.1e-08	2.1e-08	1.4e-08	1.1e-08	8.1e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.2e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.1e-04	9.5e-05	4.0e-05	3.0e-05	3.3e-05	3.8e-05	3.4e-05	4.0e-05
Total Type B Uncertainty	1.6e-04	1.5e-04	1.1e-04	8.4e-05	7.6e-05	6.7e-05	7.0e-05	7.3e-05
Degrees of Freedom	43.0	40.8	26.4	25.9	29.1	36.1	31.5	35.1

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.0752 8e-01	6.0747 2e-01	6.2093 9e-01	6.0877 4e-01	6.3625 6e-01	5.7542 7e-01	5.0008 2e-01	4.5154 7e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.3	23.2	23.2	23.3	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.7e-05	2.0e-05	1.9e-05	1.9e-05	1.8e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.3e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.1	27.1	22.1	27.5	26.2	25.0	25.9	33.1
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.6e-06	2.0e-05	8.2e-06	2.1e-05	1.1e-05	5.5e-06	3.0e-06	7.1e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.4e-06	7.9e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.4e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.2e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.2e-05	1.5e-05	6.4e-06	4.7e-06	5.4e-06	5.6e-06	4.3e-06	4.6e-06
Total Type B Uncertainty	5.1e-04	1.3e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Degrees of Freedom	28.3	23.3	20.4	24.2	22.5	23.5	23.7	24.9

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1313 6e-02	9.4806 1e-02	9.1222 0e-02	7.6379 5e-02	1.6030 9e-01	1.4921 9e-01	1.0214 5e-01	7.6003 5e-02
Number of Measurements	3	3	2	3	3	2	2	3
Temperature	23.2	23.3	23.2	23.2	23.3	23.2	23.2	23.2
Type A Uncertainty ^(b)	2.5e-05	1.3e-05	5.1e-06	5.5e-06	1.6e-05	6.6e-06	5.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.4e-05	5.0e-05	1.9e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.8	53.2	63.7	104.5	26.1	43.5	37.7	45.6
Date	13-Oct-2014	13-Oct-2014	01-Oct-2014	13-Oct-2014	13-Oct-2014	01-Oct-2014	01-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.3e-06	1.7e-05	7.0e-06	1.6e-05	1.3e-05	5.5e-06	2.1e-06	4.1e-06
Wavelength	8.4e-05	3.6e-05	1.3e-05	7.3e-06	5.1e-05	1.8e-05	1.3e-05	5.3e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.9e-07	2.1e-06	2.1e-06	1.9e-06	2.7e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.7e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.4e-05	2.6e-05	9.3e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.1e-06	4.2e-06	1.7e-06	1.1e-06	2.4e-06	2.6e-06	1.6e-06	1.4e-06
Total Type B Uncertainty	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	25.0	46.7	55.3	91.3	22.1	40.4	34.7	39.5

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.41656e-04	4.97156e-03	8.10720e-03	8.01323e-03	2.57305e-02	3.13503e-02	2.18678e-02	1.61517e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.3	23.2	23.2	23.3	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.1e-06	1.8e-06	5.3e-07	9.9e-07	3.3e-06	1.7e-06	2.5e-06	1.2e-06
Type B Uncertainty ^(c)	2.4e-06	6.9e-06	2.7e-06	4.1e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	2.6e-06	7.2e-06	2.8e-06	4.2e-06	1.4e-05	9.4e-06	6.6e-06	3.5e-06
Degrees of Freedom	30.2	46.8	53.6	104.3	39.4	32.0	50.8	66.7
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	7.7e-08	2.0e-06	1.3e-06	3.1e-06	4.2e-06	2.1e-06	7.9e-07	1.4e-06
Wavelength	2.3e-06	5.4e-06	8.4e-07	1.6e-06	1.2e-05	2.6e-06	3.1e-06	9.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.6e-08	2.5e-07	3.8e-07	3.7e-07	9.0e-07	1.0e-06	8.0e-07	6.4e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.7e-08	4.5e-07	6.7e-07	6.6e-07	1.6e-06	1.9e-06	1.4e-06	1.1e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	5.6e-07	3.7e-06	2.1e-06	2.0e-06	5.7e-06	8.3e-06	5.0e-06	2.5e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.7e-08	2.0e-07	1.4e-07	1.0e-07	3.7e-07	5.1e-07	3.2e-07	2.8e-07
Total Type B Uncertainty	2.4e-06	6.9e-06	2.7e-06	4.1e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Degrees of Freedom	21.3	41.2	50.0	94.4	35.3	30.0	39.2	54.0

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.4217 2e-05	3.4083 6e-04	9.4342 3e-04	1.0080 4e-03	5.0738 1e-03	9.7304 0e-03	8.4890 3e-03	7.1778 7e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.3	23.2	23.2	23.3	23.2	23.2	23.2
Type A Uncertainty ^(b)	9.0e-07	4.6e-07	2.7e-07	3.5e-07	1.3e-06	1.8e-06	2.1e-06	1.0e-06
Type B Uncertainty ^(c)	1.6e-07	6.7e-07	2.8e-07	6.7e-07	3.5e-06	1.4e-06	1.2e-06	1.6e-06
Total Uncertainty ^(d)	9.1e-07	8.2e-07	3.9e-07	7.5e-07	3.8e-06	2.2e-06	2.4e-06	1.9e-06
Degrees of Freedom	27.6	62.7	86.5	100.7	33.4	58.0	44.4	115.0
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (PTB Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.7e-09	2.2e-07	2.2e-07	5.8e-07	1.2e-06	9.1e-07	3.9e-07	1.2e-06
Wavelength	1.6e-07	5.5e-07	1.2e-07	3.1e-07	3.3e-06	3.2e-07	7.7e-07	1.0e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.9e-09	3.3e-08	8.0e-08	8.5e-08	3.3e-07	5.5e-07	4.9e-07	4.3e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.7e-09	4.7e-08	1.1e-07	1.2e-07	4.6e-07	7.7e-07	7.0e-07	6.1e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.2e-07	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	6.6e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	7.1e-10	1.4e-08	1.6e-08	1.3e-08	7.2e-08	1.6e-07	1.2e-07	1.2e-07
Total Type B Uncertainty	1.6e-07	6.7e-07	2.8e-07	6.7e-07	3.5e-06	1.4e-06	1.2e-06	1.6e-06
Degrees of Freedom	19.1	38.5	92.9	75.7	26.0	63.2	47.0	95.0

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.12518e-01	9.14232e-01	9.16793e-01	9.18267e-01	9.19301e-01	9.20067e-01	9.20476e-01	9.20749e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.5e-04	1.4e-04	1.0e-04	8.3e-05	7.4e-05	6.5e-05	6.8e-05	7.1e-05
Total Uncertainty ^(d)	1.5e-04	1.4e-04	1.1e-04	8.8e-05	8.5e-05	7.9e-05	7.6e-05	7.6e-05
Degrees of Freedom	45.7	41.0	27.8	30.5	42.5	56.2	42.5	41.8
Date	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.6e-08	7.0e-08	4.6e-08	3.2e-08	2.2e-08	1.5e-08	1.1e-08	8.1e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.0e-04	8.3e-05	3.5e-05	2.6e-05	2.9e-05	3.3e-05	2.9e-05	3.5e-05
Total Type B Uncertainty	1.5e-04	1.4e-04	1.0e-04	8.3e-05	7.4e-05	6.5e-05	6.8e-05	7.1e-05
Degrees of Freedom	41.8	38.1	25.0	24.6	27.0	33.1	29.0	32.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.08618e-01	6.07654e-01	6.21452e-01	6.09527e-01	6.37106e-01	5.76661e-01	5.01714e-01	4.53360e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.7e-05	2.0e-05	1.9e-05	1.9e-05	1.8e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.4e-04	1.3e-04	7.6e-05	6.8e-05	1.1e-04	8.6e-05	5.1e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.1e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.1	28.8	22.4	28.1	27.0	25.4	26.3	34.5
Date	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.7e-06	2.0e-05	8.2e-06	2.1e-05	1.1e-05	5.6e-06	3.1e-06	7.1e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.5e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	2.4e-05	2.9e-05	1.2e-05	9.2e-06	1.0e-05	1.1e-05	8.4e-06	9.1e-06
Total Type B Uncertainty	5.1e-04	1.4e-04	1.3e-04	7.6e-05	6.8e-05	1.1e-04	8.6e-05	5.1e-05
Degrees of Freedom	28.3	24.9	20.6	24.7	23.3	23.9	24.1	26.1

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1529 5e-02	9.5345 5e-02	9.1874 2e-02	7.7019 4e-02	1.6106 3e-01	1.4990 2e-01	1.0272 4e-01	7.6490 9e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Type A Uncertainty ^(b)	2.6e-05	1.3e-05	4.2e-06	5.6e-06	1.6e-05	5.4e-06	4.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.2e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.5e-05	5.0e-05	1.9e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.6	52.4	60.7	103.8	26.0	41.9	36.4	45.2
Date	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.3e-06	1.7e-05	7.0e-06	1.6e-05	1.3e-05	5.6e-06	2.3e-06	4.2e-06
Wavelength	8.5e-05	3.6e-05	1.3e-05	7.3e-06	5.1e-05	1.9e-05	1.4e-05	5.4e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.9e-07	2.1e-06	2.1e-06	1.9e-06	2.8e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.8e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.3e-05	2.6e-05	9.7e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.0e-07	3.8e-07	1.5e-07	9.6e-08	2.2e-07	2.3e-07	1.4e-07	1.3e-07
Total Type B Uncertainty	9.2e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	24.8	45.9	55.0	90.6	22.1	39.8	34.4	39.1

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.9536 1e-04	5.4753 1e-03	8.8489 8e-03	8.7470 7e-03	2.7471 8e-02	3.3343 3e-02	2.3404 6e-02	1.7379 9e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Type A Uncertainty ^(b)	1.3e-06	2.0e-06	5.7e-07	1.1e-06	3.6e-06	1.8e-06	2.6e-06	1.3e-06
Type B Uncertainty ^(c)	2.6e-06	7.4e-06	2.8e-06	4.4e-06	1.4e-05	9.3e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	2.9e-06	7.6e-06	2.9e-06	4.5e-06	1.5e-05	9.5e-06	6.8e-06	3.6e-06
Degrees of Freedom	27.6	44.3	60.4	104.8	37.8	33.5	55.2	74.5
Date	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.0e-08	2.3e-06	1.4e-06	3.4e-06	4.5e-06	2.3e-06	8.8e-07	1.5e-06
Wavelength	2.6e-06	6.0e-06	9.2e-07	1.8e-06	1.2e-05	2.8e-06	3.3e-06	1.0e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	3.0e-08	2.7e-07	4.0e-07	4.0e-07	9.5e-07	1.1e-06	8.4e-07	6.8e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	5.3e-08	4.9e-07	7.2e-07	7.1e-07	1.7e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.6e-06	2.1e-06	2.0e-06	5.6e-06	8.3e-06	4.9e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.1e-08	1.3e-07	8.6e-08	6.4e-08	2.2e-07	3.1e-07	1.9e-07	1.7e-07
Total Type B Uncertainty	2.6e-06	7.4e-06	2.8e-06	4.4e-06	1.4e-05	9.3e-06	6.2e-06	3.3e-06
Degrees of Freedom	19.1	38.7	55.8	94.4	33.8	31.2	41.7	59.6

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.14079e-05	3.08850e-04	8.66048e-04	9.26352e-04	4.75533e-03	9.19337e-03	8.00613e-03	6.75485e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.3	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Type A Uncertainty ^(b)	7.2e-07	4.2e-07	2.5e-07	3.2e-07	1.3e-06	1.7e-06	1.9e-06	9.8e-07
Type B Uncertainty ^(c)	1.3e-07	6.6e-07	2.6e-07	6.3e-07	3.3e-06	1.3e-06	1.2e-06	1.5e-06
Total Uncertainty ^(d)	7.3e-07	7.8e-07	3.6e-07	7.1e-07	3.6e-06	2.1e-06	2.3e-06	1.8e-06
Degrees of Freedom	27.6	67.4	86.9	107.9	33.4	58.4	44.8	117.2
Date	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014	12-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (LNE-INM Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	3.8e-09	2.0e-07	2.0e-07	5.3e-07	1.2e-06	8.7e-07	3.9e-07	1.1e-06
Wavelength	1.3e-07	5.0e-07	1.1e-07	2.8e-07	3.1e-06	3.0e-07	7.2e-07	9.6e-08
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.6e-09	3.0e-08	7.4e-08	7.9e-08	3.1e-07	5.2e-07	4.7e-07	4.1e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.2e-09	4.3e-08	1.0e-07	1.1e-07	4.4e-07	7.4e-07	6.6e-07	5.8e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.7e-07	0.0e+00	1.3e-07	0.0e+00	0.0e+00	0.0e+00	7.5e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	5.4e-10	1.2e-08	1.4e-08	1.1e-08	6.4e-08	1.4e-07	1.1e-07	1.1e-07
Total Type B Uncertainty	1.3e-07	6.6e-07	2.6e-07	6.3e-07	3.3e-06	1.3e-06	1.2e-06	1.5e-06
Degrees of Freedom	19.1	43.4	93.1	82.6	26.1	62.6	47.3	95.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.12505e-01	9.14204e-01	9.16719e-01	9.18180e-01	9.19209e-01	9.19942e-01	9.20347e-01	9.20606e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.4e-04	1.3e-04	1.0e-04	8.2e-05	7.3e-05	6.3e-05	6.7e-05	6.9e-05
Total Uncertainty ^(d)	1.5e-04	1.4e-04	1.1e-04	8.7e-05	8.4e-05	7.8e-05	7.5e-05	7.5e-05
Degrees of Freedom	44.1	38.7	26.8	29.6	41.1	54.0	40.7	39.7
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.6e-08	7.0e-08	4.6e-08	3.3e-08	2.3e-08	1.6e-08	1.2e-08	9.5e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	9.0e-05	7.5e-05	3.2e-05	2.4e-05	2.6e-05	3.0e-05	2.7e-05	3.2e-05
Total Type B Uncertainty	1.4e-04	1.3e-04	1.0e-04	8.2e-05	7.3e-05	6.3e-05	6.7e-05	6.9e-05
Degrees of Freedom	40.1	35.8	24.1	23.7	25.8	31.0	27.5	30.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.09860e-01	6.08918e-01	6.22464e-01	6.10478e-01	6.37924e-01	5.77501e-01	5.02597e-01	4.54288e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.8e-05	2.0e-05	1.9e-05	1.9e-05	1.9e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.4e-04	1.3e-04	7.5e-05	6.8e-05	1.1e-04	8.6e-05	5.1e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.0	28.0	22.3	27.8	26.6	25.2	26.1	33.9
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.4e-06	2.0e-05	8.0e-06	2.1e-05	1.1e-05	5.2e-06	2.2e-06	6.7e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.5e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.0e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.9e-05	2.4e-05	1.0e-05	7.5e-06	8.5e-06	8.9e-06	6.8e-06	7.4e-06
Total Type B Uncertainty	5.1e-04	1.4e-04	1.3e-04	7.5e-05	6.8e-05	1.1e-04	8.6e-05	5.1e-05
Degrees of Freedom	28.2	24.2	20.5	24.5	22.9	23.7	23.9	25.5

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1140 5e-02	9.4316 4e-02	9.0816 3e-02	7.6062 0e-02	1.5972 5e-01	1.4864 4e-01	1.0168 9e-01	7.5624 3e-02
Number of Measurements	3	3	2	3	3	2	2	2
Temperature	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Type A Uncertainty ^(b)	2.5e-05	1.3e-05	5.1e-06	5.5e-06	1.6e-05	6.6e-06	5.7e-06	4.8e-06
Type B Uncertainty ^(c)	9.0e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.4e-05	5.0e-05	1.8e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	29.0	53.0	63.0	103.5	26.0	43.1	37.3	49.0
Date	14-Oct-2014	14-Oct-2014	02-Oct-2014	14-Oct-2014	14-Oct-2014	02-Oct-2014	02-Oct-2014	02-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.2e-06	1.7e-05	6.8e-06	1.6e-05	1.3e-05	5.2e-06	1.7e-06	3.9e-06
Wavelength	8.4e-05	3.6e-05	1.3e-05	7.3e-06	5.1e-05	1.8e-05	1.3e-05	5.3e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.8e-07	2.1e-06	2.1e-06	1.9e-06	2.7e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.7e-06	3.4e-06	5.0e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.4e-05	2.6e-05	9.3e-06	7.5e-06	0.0e+00	2.6e-05	2.3e-05	1.1e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	9.8e-07	3.6e-06	1.5e-06	9.2e-07	2.1e-06	2.3e-06	1.4e-06	1.2e-06
Total Type B Uncertainty	9.0e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	25.1	46.6	54.5	90.4	22.1	39.9	34.3	39.7

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.59869e-04	5.13610e-03	8.34615e-03	8.24706e-03	2.62828e-02	3.19690e-02	2.23433e-02	1.65284e-02
Number of Measurements	3	3	2	2	3	2	3	3
Temperature	23.1	23.1	23.2	23.2	23.1	23.2	23.1	23.1
Type A Uncertainty ^(b)	1.1e-06	1.9e-06	6.6e-07	1.2e-06	3.4e-06	2.1e-06	2.5e-06	1.2e-06
Type B Uncertainty ^(c)	2.4e-06	7.1e-06	2.7e-06	4.1e-06	1.4e-05	9.1e-06	6.1e-06	3.3e-06
Total Uncertainty ^(d)	2.7e-06	7.3e-06	2.8e-06	4.3e-06	1.4e-05	9.4e-06	6.6e-06	3.5e-06
Degrees of Freedom	29.0	45.9	58.2	108.5	38.7	33.5	51.4	66.8
Date	14-Oct-2014	14-Oct-2014	12-Oct-2014	12-Oct-2014	14-Oct-2014	12-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	7.9e-08	2.1e-06	1.3e-06	3.2e-06	4.3e-06	2.1e-06	5.8e-07	1.4e-06
Wavelength	2.4e-06	5.6e-06	8.7e-07	1.7e-06	1.2e-05	2.6e-06	3.1e-06	9.8e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.8e-08	2.6e-07	3.8e-07	3.8e-07	9.2e-07	1.1e-06	8.1e-07	6.5e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.9e-08	4.6e-07	6.8e-07	6.8e-07	1.6e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	4.3e-07	3.7e-06	2.1e-06	1.8e-06	5.7e-06	8.2e-06	5.0e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.4e-08	1.6e-07	1.1e-07	8.3e-08	2.9e-07	4.0e-07	2.5e-07	2.2e-07
Total Type B Uncertainty	2.4e-06	7.1e-06	2.7e-06	4.1e-06	1.4e-05	9.1e-06	6.1e-06	3.3e-06
Degrees of Freedom	20.3	40.3	52.1	94.0	34.6	30.3	39.3	53.6

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.3209 9e-05	3.4646 4e-04	9.5631 9e-04	1.0217 5e-03	5.1262 5e-03	9.8209 5e-03	8.5713 4e-03	7.2490 8e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.1	23.1	23.1	23.1
Type A Uncertainty ^(b)	8.4e-07	4.7e-07	2.7e-07	3.5e-07	1.4e-06	1.8e-06	2.1e-06	1.0e-06
Type B Uncertainty ^(c)	1.5e-07	6.8e-07	2.8e-07	6.8e-07	3.6e-06	1.3e-06	1.2e-06	1.5e-06
Total Uncertainty ^(d)	8.5e-07	8.2e-07	3.9e-07	7.6e-07	3.8e-06	2.2e-06	2.4e-06	1.9e-06
Degrees of Freedom	27.6	61.5	84.4	99.8	33.2	56.1	43.4	111.5
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (MKEH Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.2e-09	2.2e-07	2.2e-07	5.8e-07	1.2e-06	8.7e-07	2.9e-07	1.2e-06
Wavelength	1.4e-07	5.6e-07	1.2e-07	3.1e-07	3.3e-06	3.2e-07	7.7e-07	1.0e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.8e-09	3.4e-08	8.1e-08	8.6e-08	3.3e-07	5.5e-07	4.9e-07	4.3e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.5e-09	4.7e-08	1.1e-07	1.2e-07	4.6e-07	7.8e-07	7.0e-07	6.1e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.1e-07	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	6.4e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	7.7e-10	1.7e-08	1.9e-08	1.6e-08	8.5e-08	1.9e-07	1.5e-07	1.5e-07
Total Type B Uncertainty	1.5e-07	6.8e-07	2.8e-07	6.8e-07	3.6e-06	1.3e-06	1.2e-06	1.5e-06
Degrees of Freedom	19.1	37.4	89.2	74.8	25.9	59.1	43.7	91.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.12498e-01	9.14210e-01	9.16692e-01	9.18154e-01	9.19205e-01	9.19961e-01	9.20355e-01	9.20686e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.4e-04	1.3e-04	1.0e-04	8.2e-05	7.2e-05	6.2e-05	6.5e-05	6.8e-05
Total Uncertainty ^(d)	1.4e-04	1.3e-04	1.1e-04	8.7e-05	8.3e-05	7.7e-05	7.4e-05	7.3e-05
Degrees of Freedom	41.7	36.0	25.9	28.8	39.7	51.7	39.0	37.5
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.6e-08	7.0e-08	4.7e-08	3.3e-08	2.3e-08	1.6e-08	1.2e-08	8.7e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	8.0e-05	6.7e-05	2.8e-05	2.1e-05	2.3e-05	2.7e-05	2.4e-05	2.8e-05
Total Type B Uncertainty	1.4e-04	1.3e-04	1.0e-04	8.2e-05	7.2e-05	6.2e-05	6.5e-05	6.8e-05
Degrees of Freedom	37.6	33.2	23.2	23.0	24.6	28.9	26.0	28.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.0920 5e-01	6.0869 3e-01	6.2205 4e-01	6.0991 8e-01	6.3734 3e-01	5.7665 9e-01	5.0152 1e-01	4.5311 7e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.7e-05	2.0e-05	1.9e-05	1.9e-05	1.8e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.4e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.1	27.8	22.2	27.7	26.5	25.2	26.1	33.7
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.5e-06	2.0e-05	8.1e-06	2.1e-05	1.1e-05	5.4e-06	2.6e-06	6.9e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.5e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.8e-05	2.2e-05	9.3e-06	6.9e-06	7.8e-06	8.1e-06	6.3e-06	6.8e-06
Total Type B Uncertainty	5.1e-04	1.4e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Degrees of Freedom	28.2	24.0	20.5	24.4	22.8	23.7	23.8	25.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1713 1e-02	9.6014 1e-02	9.2433 6e-02	7.7413 3e-02	1.6203 6e-01	1.5074 5e-01	1.0327 9e-01	7.6912 0e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	2.6e-05	1.3e-05	4.2e-06	5.6e-06	1.6e-05	5.5e-06	4.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.2e-05	4.9e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.6e-05	5.0e-05	1.9e-05	2.0e-05	5.6e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.5	52.7	60.8	103.4	26.1	42.2	36.6	45.7
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.3e-06	1.7e-05	7.0e-06	1.6e-05	1.3e-05	5.4e-06	2.0e-06	4.1e-06
Wavelength	8.6e-05	3.7e-05	1.3e-05	7.4e-06	5.1e-05	1.9e-05	1.4e-05	5.4e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.0e-07	2.1e-06	2.1e-06	1.9e-06	2.8e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.8e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.3e-05	2.6e-05	9.7e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	9.9e-07	3.6e-06	1.5e-06	9.3e-07	2.1e-06	2.3e-06	1.4e-06	1.2e-06
Total Type B Uncertainty	9.2e-05	4.9e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	24.6	46.2	55.1	90.2	22.1	40.1	34.5	39.5

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.9914 0e-04	5.5121 3e-03	8.8979 1e-03	8.7941 1e-03	2.7584 5e-02	3.3466 5e-02	2.3499 2e-02	1.7456 2e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.3e-06	2.0e-06	5.8e-07	1.1e-06	3.6e-06	1.8e-06	2.6e-06	1.3e-06
Type B Uncertainty ^(c)	2.7e-06	7.4e-06	2.8e-06	4.4e-06	1.5e-05	9.3e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	3.0e-06	7.7e-06	2.9e-06	4.5e-06	1.5e-05	9.4e-06	6.8e-06	3.6e-06
Degrees of Freedom	27.6	44.1	60.1	104.2	37.6	33.4	55.0	73.8
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	8.9e-08	2.3e-06	1.4e-06	3.4e-06	4.5e-06	2.2e-06	7.5e-07	1.5e-06
Wavelength	2.7e-06	6.0e-06	9.2e-07	1.8e-06	1.2e-05	2.8e-06	3.3e-06	1.0e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	3.0e-08	2.8e-07	4.0e-07	4.0e-07	9.5e-07	1.1e-06	8.4e-07	6.8e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	5.3e-08	4.9e-07	7.2e-07	7.1e-07	1.7e-06	2.0e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.6e-06	2.1e-06	1.9e-06	5.6e-06	8.3e-06	4.9e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.4e-08	1.6e-07	1.1e-07	8.2e-08	2.8e-07	3.9e-07	2.4e-07	2.2e-07
Total Type B Uncertainty	2.7e-06	7.4e-06	2.8e-06	4.4e-06	1.5e-05	9.3e-06	6.2e-06	3.3e-06
Degrees of Freedom	19.1	38.5	55.5	93.9	33.6	31.1	41.5	58.8

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.1432 5e-05	3.3110 9e-04	9.1990 9e-04	9.8356 3e-04	4.9780 6e-03	9.5737 9e-03	8.3502 1e-03	7.0573 4e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	7.2e-07	4.5e-07	2.6e-07	3.4e-07	1.3e-06	1.7e-06	2.0e-06	1.0e-06
Type B Uncertainty ^(c)	1.3e-07	6.7e-07	2.8e-07	6.6e-07	3.5e-06	1.3e-06	1.2e-06	1.5e-06
Total Uncertainty ^(d)	7.3e-07	8.1e-07	3.8e-07	7.4e-07	3.7e-06	2.2e-06	2.3e-06	1.8e-06
Degrees of Freedom	27.6	64.3	85.3	102.1	33.3	57.0	44.0	114.2
Date	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014	14-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMIJ Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	3.7e-09	2.1e-07	2.1e-07	5.6e-07	1.2e-06	8.7e-07	3.4e-07	1.1e-06
Wavelength	1.3e-07	5.3e-07	1.2e-07	3.0e-07	3.2e-06	3.1e-07	7.5e-07	1.0e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.6e-09	3.2e-08	7.8e-08	8.3e-08	3.2e-07	5.4e-07	4.8e-07	4.2e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.2e-09	4.5e-08	1.1e-07	1.2e-07	4.5e-07	7.6e-07	6.9e-07	6.0e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.4e-07	0.0e+00	7.1e-08	0.0e+00	0.0e+00	0.0e+00	6.9e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	5.1e-10	1.2e-08	1.4e-08	1.1e-08	6.3e-08	1.4e-07	1.1e-07	1.1e-07
Total Type B Uncertainty	1.3e-07	6.7e-07	2.8e-07	6.6e-07	3.5e-06	1.3e-06	1.2e-06	1.5e-06
Degrees of Freedom	19.1	40.1	90.6	77.0	26.0	60.6	45.2	93.6

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.12575e-01	9.14280e-01	9.16817e-01	9.18300e-01	9.19353e-01	9.20105e-01	9.20527e-01	9.20734e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.9e-05	5.7e-05	6.2e-05	6.2e-05
Total Uncertainty ^(d)	1.2e-04	1.2e-04	1.0e-04	8.4e-05	8.0e-05	7.2e-05	7.0e-05	6.8e-05
Degrees of Freedom	26.3	24.3	23.0	25.9	34.9	42.7	33.0	29.5
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.6e-08	7.0e-08	4.6e-08	3.1e-08	2.1e-08	1.4e-08	1.0e-08	8.3e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	2.9e-05	2.4e-05	1.0e-05	7.6e-06	8.2e-06	9.5e-06	8.4e-06	1.0e-05
Total Type B Uncertainty	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.9e-05	5.7e-05	6.2e-05	6.2e-05
Degrees of Freedom	22.7	21.8	20.4	20.4	20.6	21.2	20.8	21.1

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.0789 0e-01	6.0760 3e-01	6.2117 8e-01	6.0910 3e-01	6.3662 8e-01	5.7586 2e-01	5.0068 3e-01	4.5219 1e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.7e-05	2.0e-05	1.9e-05	1.9e-05	1.8e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.4e-04	1.3e-04	7.6e-05	6.8e-05	1.1e-04	8.6e-05	5.2e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.1e-05	1.1e-04	8.8e-05	5.6e-05
Degrees of Freedom	32.2	29.1	22.4	28.2	27.2	25.5	26.4	34.8
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	1.0e-05	2.1e-05	8.6e-06	2.1e-05	1.1e-05	6.1e-06	4.1e-06	7.7e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.4e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	2.5e-05	3.0e-05	1.3e-05	9.7e-06	1.1e-05	1.1e-05	8.8e-06	9.5e-06
Total Type B Uncertainty	5.1e-04	1.4e-04	1.3e-04	7.6e-05	6.8e-05	1.1e-04	8.6e-05	5.2e-05
Degrees of Freedom	28.4	25.1	20.7	24.9	23.5	24.0	24.1	26.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1633 0e-02	9.5619 8e-02	9.2097 1e-02	7.7206 3e-02	1.6147 0e-01	1.5035 0e-01	1.0309 7e-01	7.6804 3e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	2.6e-05	1.3e-05	4.2e-06	5.6e-06	1.6e-05	5.4e-06	4.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.2e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.5e-05	5.0e-05	1.9e-05	2.0e-05	5.6e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.6	52.7	62.2	105.6	26.2	42.5	36.9	46.8
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.5e-06	1.7e-05	7.4e-06	1.6e-05	1.3e-05	6.2e-06	3.1e-06	4.6e-06
Wavelength	8.6e-05	3.7e-05	1.3e-05	7.4e-06	5.1e-05	1.9e-05	1.4e-05	5.4e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.9e-07	2.1e-06	2.1e-06	1.9e-06	2.8e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.8e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.3e-05	2.6e-05	9.7e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	4.9e-07	1.8e-06	7.2e-07	4.6e-07	1.0e-06	1.1e-06	6.8e-07	6.0e-07
Total Type B Uncertainty	9.2e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	24.7	46.2	56.5	92.2	22.2	40.4	34.9	40.5

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.61967e-04	5.16756e-03	8.40104e-03	8.30882e-03	2.64402e-02	3.21778e-02	2.25151e-02	1.66730e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	1.1e-06	1.9e-06	5.4e-07	1.0e-06	3.4e-06	1.7e-06	2.5e-06	1.2e-06
Type B Uncertainty ^(c)	2.5e-06	7.1e-06	2.8e-06	4.3e-06	1.4e-05	9.3e-06	6.2e-06	3.4e-06
Total Uncertainty ^(d)	2.7e-06	7.4e-06	2.8e-06	4.4e-06	1.4e-05	9.5e-06	6.7e-06	3.6e-06
Degrees of Freedom	28.9	46.0	58.2	106.4	39.0	33.3	54.0	73.1
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	8.7e-08	2.1e-06	1.4e-06	3.3e-06	4.5e-06	2.4e-06	1.1e-06	1.6e-06
Wavelength	2.4e-06	5.6e-06	8.7e-07	1.7e-06	1.2e-05	2.7e-06	3.2e-06	9.9e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.8e-08	2.6e-07	3.9e-07	3.8e-07	9.2e-07	1.1e-06	8.2e-07	6.6e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.9e-08	4.7e-07	6.9e-07	6.8e-07	1.6e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	4.1e-07	3.7e-06	2.1e-06	2.0e-06	5.7e-06	8.3e-06	5.0e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.6e-08	1.9e-07	1.3e-07	9.7e-08	3.3e-07	4.7e-07	2.9e-07	2.6e-07
Total Type B Uncertainty	2.5e-06	7.1e-06	2.8e-06	4.3e-06	1.4e-05	9.3e-06	6.2e-06	3.4e-06
Degrees of Freedom	20.2	40.4	54.1	96.2	34.9	31.2	41.5	59.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.1341 6e-05	3.1514 4e-04	8.8392 7e-04	9.4578 7e-04	4.8325 3e-03	9.3253 8e-03	8.1261 4e-03	6.8610 2e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	7.2e-07	4.3e-07	2.5e-07	3.3e-07	1.3e-06	1.7e-06	2.0e-06	9.9e-07
Type B Uncertainty ^(c)	1.2e-07	6.6e-07	2.7e-07	6.4e-07	3.4e-06	1.4e-06	1.2e-06	1.6e-06
Total Uncertainty ^(d)	7.3e-07	7.9e-07	3.7e-07	7.2e-07	3.6e-06	2.2e-06	2.3e-06	1.9e-06
Degrees of Freedom	27.6	66.9	90.4	107.9	33.7	61.7	46.6	121.0
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (KRISS Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.0e-09	2.0e-07	2.1e-07	5.4e-07	1.2e-06	9.7e-07	5.2e-07	1.2e-06
Wavelength	1.2e-07	5.1e-07	1.1e-07	2.9e-07	3.1e-06	3.0e-07	7.3e-07	9.7e-08
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.6e-09	3.1e-08	7.6e-08	8.0e-08	3.1e-07	5.3e-07	4.7e-07	4.1e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.2e-09	4.3e-08	1.1e-07	1.1e-07	4.4e-07	7.5e-07	6.7e-07	5.9e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.6e-07	0.0e+00	1.2e-07	0.0e+00	0.0e+00	0.0e+00	7.3e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	6.5e-10	1.5e-08	1.8e-08	1.4e-08	8.0e-08	1.8e-07	1.4e-07	1.4e-07
Total Type B Uncertainty	1.2e-07	6.6e-07	2.7e-07	6.4e-07	3.4e-06	1.4e-06	1.2e-06	1.6e-06
Degrees of Freedom	19.1	42.8	97.2	82.6	26.3	66.1	51.1	99.6

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.12856e-01	9.14537e-01	9.16952e-01	9.18384e-01	9.19384e-01	9.20145e-01	9.20539e-01	9.20687e-01
Number of Measurements	3	3	3	3	3	3	3	2
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.1
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	3.4e-05
Type B Uncertainty ^(c)	1.6e-04	1.5e-04	1.1e-04	8.4e-05	7.5e-05	6.7e-05	6.9e-05	7.0e-05
Total Uncertainty ^(d)	1.6e-04	1.5e-04	1.1e-04	8.9e-05	8.6e-05	8.1e-05	7.7e-05	7.8e-05
Degrees of Freedom	46.4	43.3	29.0	31.7	44.4	58.8	44.7	51.1
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	11-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.3e-08	6.7e-08	4.4e-08	3.1e-08	2.1e-08	1.4e-08	1.0e-08	8.7e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.2e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	5.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.1e-04	9.3e-05	3.9e-05	3.0e-05	3.2e-05	3.7e-05	3.3e-05	3.9e-05
Total Type B Uncertainty	1.6e-04	1.5e-04	1.1e-04	8.4e-05	7.5e-05	6.7e-05	6.9e-05	7.0e-05
Degrees of Freedom	42.9	40.4	26.2	25.7	28.7	35.7	31.1	35.9

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.09076e-01	6.07445e-01	6.21269e-01	6.09419e-01	6.36920e-01	5.76611e-01	5.01590e-01	4.53153e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.7e-05	2.0e-05	1.9e-05	1.9e-05	1.8e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.4e-04	1.3e-04	7.6e-05	6.8e-05	1.1e-04	8.6e-05	5.2e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.1e-05	1.1e-04	8.8e-05	5.6e-05
Degrees of Freedom	32.1	29.4	22.5	28.2	27.3	25.5	26.4	34.9
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.5e-06	2.0e-05	8.1e-06	2.1e-05	1.1e-05	5.3e-06	2.4e-06	6.8e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.5e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	2.7e-05	3.3e-05	1.4e-05	1.0e-05	1.2e-05	1.2e-05	9.5e-06	1.0e-05
Total Type B Uncertainty	5.1e-04	1.4e-04	1.3e-04	7.6e-05	6.8e-05	1.1e-04	8.6e-05	5.2e-05
Degrees of Freedom	28.3	25.5	20.7	24.9	23.6	24.0	24.2	26.5

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1065 2e-02	9.4119 1e-02	9.0610 9e-02	7.5834 6e-02	1.5944 7e-01	1.4839 1e-01	1.0147 9e-01	7.5437 5e-02
Number of Measurements	3	3	3	2	3	3	3	3
Temperature	23.2	23.2	23.2	23.1	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	2.5e-05	1.3e-05	4.1e-06	6.7e-06	1.6e-05	5.4e-06	4.6e-06	3.9e-06
Type B Uncertainty ^(c)	9.0e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.3e-05	5.0e-05	1.8e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	29.1	53.2	61.2	105.9	26.1	41.8	36.1	44.6
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	11-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.2e-06	1.7e-05	6.8e-06	1.5e-05	1.3e-05	5.3e-06	1.8e-06	4.0e-06
Wavelength	8.3e-05	3.6e-05	1.3e-05	7.2e-06	5.1e-05	1.8e-05	1.3e-05	5.3e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.8e-07	2.1e-06	2.1e-06	1.9e-06	2.7e-06	2.7e-06	2.2e-06	1.8e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.7e-06	3.4e-06	5.0e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.4e-05	2.6e-05	9.8e-06	6.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.0e-06	3.9e-06	1.6e-06	9.8e-07	2.2e-06	2.4e-06	1.5e-06	1.3e-06
Total Type B Uncertainty	9.0e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	25.2	46.7	55.5	87.6	22.1	39.7	34.1	38.7

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.6228 3e-04	5.1860 5e-03	8.4171 8e-03	8.3185 4e-03	2.6460 8e-02	3.2176 4e-02	2.2501 0e-02	1.6654 3e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.1e-06	1.9e-06	5.5e-07	1.0e-06	3.4e-06	1.7e-06	2.5e-06	1.2e-06
Type B Uncertainty ^(c)	2.5e-06	7.1e-06	2.7e-06	4.2e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	2.7e-06	7.4e-06	2.8e-06	4.4e-06	1.4e-05	9.4e-06	6.7e-06	3.5e-06
Degrees of Freedom	28.8	45.7	55.7	104.1	38.6	32.3	52.1	68.3
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	8.0e-08	2.1e-06	1.3e-06	3.2e-06	4.3e-06	2.1e-06	6.6e-07	1.4e-06
Wavelength	2.4e-06	5.7e-06	8.7e-07	1.7e-06	1.2e-05	2.7e-06	3.2e-06	9.8e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.8e-08	2.6e-07	3.9e-07	3.8e-07	9.2e-07	1.1e-06	8.2e-07	6.5e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.9e-08	4.7e-07	6.9e-07	6.8e-07	1.7e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	4.1e-07	3.7e-06	2.1e-06	2.0e-06	5.7e-06	8.3e-06	5.0e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.5e-08	1.8e-07	1.2e-07	9.2e-08	3.2e-07	4.5e-07	2.8e-07	2.4e-07
Total Type B Uncertainty	2.5e-06	7.1e-06	2.7e-06	4.2e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Degrees of Freedom	20.1	40.1	51.6	94.0	34.5	30.2	39.8	54.8

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.2895 2e-05	3.4578 1e-04	9.5462 7e-04	1.0203 9e-03	5.1203 2e-03	9.8110 1e-03	8.5627 9e-03	7.2414 0e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.2	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	8.2e-07	4.7e-07	2.7e-07	3.5e-07	1.4e-06	1.8e-06	2.1e-06	1.0e-06
Type B Uncertainty ^(c)	1.4e-07	6.8e-07	2.8e-07	6.8e-07	3.6e-06	1.3e-06	1.2e-06	1.5e-06
Total Uncertainty ^(d)	8.3e-07	8.2e-07	3.9e-07	7.6e-07	3.8e-06	2.2e-06	2.4e-06	1.9e-06
Degrees of Freedom	27.6	61.7	84.8	100.0	33.2	56.2	43.5	111.6
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (VNIIOFI Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.1e-09	2.2e-07	2.2e-07	5.8e-07	1.2e-06	8.8e-07	3.2e-07	1.2e-06
Wavelength	1.4e-07	5.6e-07	1.2e-07	3.1e-07	3.3e-06	3.2e-07	7.7e-07	1.0e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.8e-09	3.4e-08	8.1e-08	8.6e-08	3.3e-07	5.5e-07	4.9e-07	4.3e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.5e-09	4.7e-08	1.1e-07	1.2e-07	4.6e-07	7.8e-07	7.0e-07	6.1e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.1e-07	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	6.5e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	3.7e-10	8.1e-09	9.4e-09	7.6e-09	4.1e-08	9.2e-08	7.1e-08	7.1e-08
Total Type B Uncertainty	1.4e-07	6.8e-07	2.8e-07	6.8e-07	3.6e-06	1.3e-06	1.2e-06	1.5e-06
Degrees of Freedom	19.1	37.5	89.9	75.0	25.9	59.1	43.9	91.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.1275 3e-01	9.1443 8e-01	9.1689 4e-01	9.1834 3e-01	9.1937 4e-01	9.2010 7e-01	9.2051 1e-01	9.2082 6e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.4e-04	1.3e-04	1.0e-04	8.2e-05	7.3e-05	6.3e-05	6.7e-05	6.9e-05
Total Uncertainty ^(d)	1.5e-04	1.4e-04	1.1e-04	8.7e-05	8.4e-05	7.8e-05	7.5e-05	7.5e-05
Degrees of Freedom	44.1	38.7	26.8	29.6	41.1	54.0	40.7	39.7
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.4e-08	6.8e-08	4.5e-08	3.1e-08	2.1e-08	1.4e-08	1.0e-08	7.4e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	9.0e-05	7.5e-05	3.2e-05	2.4e-05	2.6e-05	3.0e-05	2.7e-05	3.2e-05
Total Type B Uncertainty	1.4e-04	1.3e-04	1.0e-04	8.2e-05	7.3e-05	6.3e-05	6.7e-05	6.9e-05
Degrees of Freedom	40.1	35.8	24.1	23.7	25.8	31.0	27.5	30.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.0674 4e-01	6.0637 0e-01	6.2003 7e-01	6.0800 8e-01	6.3561 0e-01	5.7491 4e-01	4.9970 0e-01	4.5122 3e-01
Number of Measurements	3	2	2	2	2	2	2	2
Temperature	23.4	23.3	23.3	23.3	23.3	23.3	23.3	23.3
Type A Uncertainty ^(b)	1.3e-04	4.7e-05	3.4e-05	2.4e-05	2.4e-05	2.3e-05	2.3e-05	2.5e-05
Type B Uncertainty ^(c)	5.1e-04	1.3e-04	1.3e-04	7.4e-05	6.6e-05	1.1e-04	8.5e-05	4.9e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.2	29.6	23.1	29.5	28.5	25.9	27.2	38.7
Date	13-Oct-2014	27-Oct-2014	27-Oct-2014	27-Oct-2014	27-Oct-2014	27-Oct-2014	27-Oct-2014	27-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	1.0e-05	2.0e-05	8.3e-06	2.1e-05	1.1e-05	5.8e-06	3.5e-06	7.3e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.4e-06	7.9e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.4e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.2e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.0e-05	6.4e-05	1.0e-04	8.1e-05	4.6e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.4e-05	1.7e-05	7.2e-06	5.3e-06	6.1e-06	6.3e-06	4.9e-06	5.2e-06
Total Type B Uncertainty	5.1e-04	1.3e-04	1.3e-04	7.4e-05	6.6e-05	1.1e-04	8.5e-05	4.9e-05
Degrees of Freedom	28.3	23.7	20.4	24.4	22.7	23.6	23.9	25.7

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1373 5e-02	9.4894 7e-02	9.1414 9e-02	7.6596 9e-02	1.6050 8e-01	1.4943 3e-01	1.0235 0e-01	7.6183 1e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	2.5e-05	1.3e-05	4.2e-06	5.6e-06	1.6e-05	5.4e-06	4.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.5e-05	5.0e-05	1.9e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.8	52.6	61.7	105.2	26.1	42.2	36.6	45.9
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.4e-06	1.7e-05	7.2e-06	1.6e-05	1.3e-05	6.0e-06	2.9e-06	4.4e-06
Wavelength	8.5e-05	3.6e-05	1.3e-05	7.3e-06	5.1e-05	1.9e-05	1.3e-05	5.3e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.9e-07	2.1e-06	2.1e-06	1.9e-06	2.7e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.7e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.4e-05	2.6e-05	9.7e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	2.6e-07	9.4e-07	3.8e-07	2.4e-07	5.5e-07	5.9e-07	3.6e-07	3.2e-07
Total Type B Uncertainty	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	24.9	46.2	56.0	91.9	22.1	40.1	34.6	39.8

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.6347 5e-04	5.1813 3e-03	8.4145 6e-03	8.3175 2e-03	2.6459 3e-02	3.2188 4e-02	2.2515 5e-02	1.6669 6e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	1.2e-06	1.9e-06	5.5e-07	1.0e-06	3.4e-06	1.7e-06	2.5e-06	1.2e-06
Type B Uncertainty ^(c)	2.5e-06	7.1e-06	2.8e-06	4.2e-06	1.4e-05	9.3e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	2.7e-06	7.4e-06	2.8e-06	4.4e-06	1.4e-05	9.4e-06	6.7e-06	3.6e-06
Degrees of Freedom	28.8	45.8	57.5	105.8	38.9	33.1	53.5	72.0
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	8.5e-08	2.1e-06	1.3e-06	3.3e-06	4.4e-06	2.4e-06	1.1e-06	1.6e-06
Wavelength	2.4e-06	5.7e-06	8.7e-07	1.7e-06	1.2e-05	2.7e-06	3.2e-06	9.9e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.8e-08	2.6e-07	3.9e-07	3.8e-07	9.2e-07	1.1e-06	8.2e-07	6.6e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.9e-08	4.7e-07	6.9e-07	6.8e-07	1.7e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	4.0e-07	3.7e-06	2.1e-06	2.0e-06	5.7e-06	8.3e-06	5.0e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.1e-08	1.3e-07	8.8e-08	6.6e-08	2.3e-07	3.2e-07	2.0e-07	1.7e-07
Total Type B Uncertainty	2.5e-06	7.1e-06	2.8e-06	4.2e-06	1.4e-05	9.3e-06	6.2e-06	3.3e-06
Degrees of Freedom	20.1	40.2	53.5	95.7	34.8	30.9	41.1	58.3

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.24937e-05	3.24154e-04	9.04981e-04	9.67526e-04	4.91777e-03	9.47097e-03	8.25594e-03	6.97420e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
Type A Uncertainty ^(b)	7.9e-07	4.4e-07	2.6e-07	3.3e-07	1.3e-06	1.7e-06	2.0e-06	1.0e-06
Type B Uncertainty ^(c)	1.4e-07	6.6e-07	2.8e-07	6.5e-07	3.4e-06	1.4e-06	1.2e-06	1.6e-06
Total Uncertainty ^(d)	8.0e-07	8.0e-07	3.8e-07	7.3e-07	3.7e-06	2.2e-06	2.3e-06	1.9e-06
Degrees of Freedom	27.6	65.6	89.2	105.4	33.6	61.0	46.1	120.1
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMC-A*STAR Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.3e-09	2.1e-07	2.1e-07	5.6e-07	1.2e-06	9.6e-07	4.9e-07	1.2e-06
Wavelength	1.4e-07	5.2e-07	1.1e-07	3.0e-07	3.2e-06	3.1e-07	7.5e-07	9.9e-08
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.7e-09	3.2e-08	7.7e-08	8.2e-08	3.2e-07	5.3e-07	4.8e-07	4.2e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.4e-09	4.5e-08	1.1e-07	1.2e-07	4.5e-07	7.6e-07	6.8e-07	6.0e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.5e-07	0.0e+00	9.3e-08	0.0e+00	0.0e+00	0.0e+00	7.0e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	7.7e-10	1.7e-08	1.9e-08	1.6e-08	8.6e-08	1.9e-07	1.5e-07	1.5e-07
Total Type B Uncertainty	1.4e-07	6.6e-07	2.8e-07	6.5e-07	3.4e-06	1.4e-06	1.2e-06	1.6e-06
Degrees of Freedom	19.1	41.4	96.5	80.2	26.2	66.6	50.8	99.4

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.12857e-01	9.14527e-01	9.16993e-01	9.18429e-01	9.19436e-01	9.20189e-01	9.20566e-01	9.20797e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.2e-04	1.2e-04	1.0e-04	7.9e-05	6.9e-05	5.7e-05	6.2e-05	6.3e-05
Total Uncertainty ^(d)	1.2e-04	1.2e-04	1.0e-04	8.5e-05	8.1e-05	7.3e-05	7.1e-05	6.9e-05
Degrees of Freedom	28.4	25.7	23.3	26.2	35.4	43.8	33.6	30.4
Date	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.3e-08	6.7e-08	4.4e-08	3.0e-08	2.1e-08	1.3e-08	9.9e-09	7.7e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.2e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	3.8e-05	3.1e-05	1.3e-05	1.0e-05	1.1e-05	1.3e-05	1.1e-05	1.3e-05
Total Type B Uncertainty	1.2e-04	1.2e-04	1.0e-04	7.9e-05	6.9e-05	5.7e-05	6.2e-05	6.3e-05
Degrees of Freedom	24.7	23.2	20.7	20.7	21.0	22.1	21.4	21.9

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.0712 6e-01	6.0724 5e-01	6.2066 6e-01	6.0851 7e-01	6.3603 5e-01	5.7511 5e-01	4.9978 3e-01	4.5127 6e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.7e-05	2.0e-05	1.9e-05	1.9e-05	1.8e-05	2.1e-05
Type B Uncertainty ^(c)	5.1e-04	1.3e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.7e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.1	26.6	22.0	27.3	25.9	24.9	25.8	32.6
Date	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.4e-06	2.0e-05	8.0e-06	2.1e-05	1.1e-05	5.3e-06	2.4e-06	6.8e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.4e-06	7.9e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.4e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.2e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.1e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	5.5e-06	6.8e-06	2.9e-06	2.1e-06	2.4e-06	2.5e-06	2.0e-06	2.1e-06
Total Type B Uncertainty	5.1e-04	1.3e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Degrees of Freedom	28.3	22.9	20.3	24.0	22.2	23.4	23.6	24.5

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1563 2e-02	9.5660 2e-02	9.2074 2e-02	7.7103 5e-02	1.6140 8e-01	1.5017 3e-01	1.0285 0e-01	7.6561 6e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	2.6e-05	1.3e-05	4.2e-06	5.6e-06	1.6e-05	5.4e-06	4.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.2e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.5e-05	5.0e-05	1.9e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.6	52.3	60.2	103.1	26.0	41.8	36.3	44.8
Date	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.3e-06	1.7e-05	6.9e-06	1.6e-05	1.3e-05	5.3e-06	1.8e-06	4.0e-06
Wavelength	8.5e-05	3.7e-05	1.3e-05	7.4e-06	5.1e-05	1.9e-05	1.4e-05	5.4e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.9e-07	2.1e-06	2.1e-06	1.9e-06	2.8e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.8e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.3e-05	2.6e-05	9.7e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	5.3e-07	1.9e-06	7.9e-07	5.0e-07	1.1e-06	1.2e-06	7.4e-07	6.5e-07
Total Type B Uncertainty	9.2e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	24.7	45.9	54.5	89.9	22.0	39.7	34.3	38.8

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.8613 1e-04	5.3787 1e-03	8.7049 8e-03	8.6047 7e-03	2.7146 3e-02	3.2967 6e-02	2.3117 2e-02	1.7149 5e-02
Number of Measurements	3	3	3	3	3	2	3	3
Temperature	23.1	23.1	23.1	23.1	23.2	23.3	23.2	23.2
Type A Uncertainty ^(b)	1.2e-06	2.0e-06	5.6e-07	1.1e-06	3.5e-06	2.2e-06	2.6e-06	1.3e-06
Type B Uncertainty ^(c)	2.6e-06	7.3e-06	2.8e-06	4.3e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	2.9e-06	7.5e-06	2.8e-06	4.5e-06	1.5e-05	9.4e-06	6.7e-06	3.5e-06
Degrees of Freedom	27.6	44.8	58.2	104.1	38.0	34.7	53.8	71.6
Date	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	01-Oct-2014	15-Oct-2014	15-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	8.5e-08	2.2e-06	1.3e-06	3.3e-06	4.4e-06	2.3e-06	6.7e-07	1.4e-06
Wavelength	2.6e-06	5.9e-06	9.0e-07	1.8e-06	1.2e-05	2.7e-06	3.2e-06	1.0e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.9e-08	2.7e-07	4.0e-07	3.9e-07	9.4e-07	1.1e-06	8.3e-07	6.7e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	5.2e-08	4.8e-07	7.1e-07	7.0e-07	1.7e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.7e-06	2.1e-06	2.0e-06	5.6e-06	8.2e-06	4.9e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.8e-08	2.1e-07	1.4e-07	1.1e-07	3.6e-07	5.1e-07	3.2e-07	2.8e-07
Total Type B Uncertainty	2.6e-06	7.3e-06	2.8e-06	4.3e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Degrees of Freedom	19.1	39.2	53.8	93.9	33.9	31.3	40.8	57.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.4207 0e-05	3.4992 1e-04	9.6477 9e-04	1.0311 5e-03	5.1607 0e-03	9.8776 1e-03	8.6214 2e-03	7.2926 3e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.1	23.1	23.1	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	9.0e-07	4.7e-07	2.7e-07	3.6e-07	1.4e-06	1.8e-06	2.1e-06	1.1e-06
Type B Uncertainty ^(c)	1.6e-07	6.8e-07	2.9e-07	6.8e-07	3.6e-06	1.3e-06	1.2e-06	1.5e-06
Total Uncertainty ^(d)	9.1e-07	8.3e-07	4.0e-07	7.7e-07	3.8e-06	2.2e-06	2.4e-06	1.9e-06
Degrees of Freedom	27.6	60.9	84.6	99.9	33.2	56.1	43.5	111.2
Date	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014	15-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NPL Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.5e-09	2.2e-07	2.2e-07	5.9e-07	1.3e-06	8.9e-07	3.2e-07	1.2e-06
Wavelength	1.6e-07	5.6e-07	1.2e-07	3.2e-07	3.3e-06	3.2e-07	7.8e-07	1.0e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.9e-09	3.4e-08	8.2e-08	8.6e-08	3.3e-07	5.5e-07	5.0e-07	4.3e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.7e-09	4.8e-08	1.1e-07	1.2e-07	4.7e-07	7.8e-07	7.0e-07	6.2e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.0e-07	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	6.3e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	4.9e-10	9.9e-09	1.1e-08	9.3e-09	5.0e-08	1.1e-07	8.6e-08	8.7e-08
Total Type B Uncertainty	1.6e-07	6.8e-07	2.9e-07	6.8e-07	3.6e-06	1.3e-06	1.2e-06	1.5e-06
Degrees of Freedom	19.0	36.7	89.6	74.9	25.9	59.1	43.8	91.2

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --A

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	9.1247 4e-01	9.1415 7e-01	9.1669 4e-01	9.1813 0e-01	9.1917 8e-01	9.1994 8e-01	9.2037 1e-01	9.2060 5e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	3.2e-05	2.7e-05	2.5e-05	2.9e-05	4.2e-05	4.5e-05	3.4e-05	2.8e-05
Type B Uncertainty ^(c)	1.2e-04	1.2e-04	1.0e-04	7.9e-05	6.9e-05	5.7e-05	6.2e-05	6.3e-05
Total Uncertainty ^(d)	1.2e-04	1.2e-04	1.0e-04	8.5e-05	8.1e-05	7.3e-05	7.1e-05	6.9e-05
Degrees of Freedom	28.9	26.1	23.4	26.3	35.5	44.0	33.8	30.7
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --A

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00	0.0e+00
Wavelength	3.3e-06	1.2e-06	4.2e-07	2.6e-06	3.9e-07	3.7e-07	1.4e-06	4.5e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	8.7e-08	7.1e-08	4.7e-08	3.3e-08	2.3e-08	1.6e-08	1.2e-08	9.5e-09
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.3e-06	1.3e-06	1.4e-06	1.4e-06	1.5e-06	1.5e-06	1.5e-06	1.6e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	1.1e-04	1.1e-04	9.9e-05	7.9e-05	6.8e-05	5.6e-05	6.1e-05	6.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	4.0e-05	3.3e-05	1.4e-05	1.0e-05	1.1e-05	1.3e-05	1.2e-05	1.4e-05
Total Type B Uncertainty	1.2e-04	1.2e-04	1.0e-04	7.9e-05	6.9e-05	5.7e-05	6.2e-05	6.3e-05
Degrees of Freedom	25.2	23.5	20.8	20.8	21.1	22.3	21.5	22.1

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --B

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	4.10490e-01	6.08508e-01	6.22260e-01	6.10489e-01	6.37817e-01	5.77640e-01	5.02766e-01	4.54460e-01
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.3e-04	3.8e-05	2.8e-05	2.0e-05	1.9e-05	1.9e-05	1.9e-05	2.1e-05
Type B Uncertainty ^(c)	5.2e-04	1.4e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Total Uncertainty ^(d)	5.3e-04	1.4e-04	1.4e-04	7.8e-05	7.0e-05	1.1e-04	8.8e-05	5.5e-05
Degrees of Freedom	32.0	27.7	22.2	27.7	26.4	25.2	26.0	33.6
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --B

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	9.5e-06	2.0e-05	8.1e-06	2.1e-05	1.1e-05	5.3e-06	2.4e-06	6.8e-06
Wavelength	4.6e-04	2.6e-05	3.9e-06	1.5e-06	8.0e-06	2.8e-05	2.3e-05	1.1e-05
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	6.3e-06	4.8e-06	4.7e-06	4.8e-06	4.5e-06	5.2e-06	5.8e-06	6.1e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	6.2e-06	5.1e-06	5.1e-06	5.2e-06	5.0e-06	5.6e-06	6.0e-06	6.3e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	2.3e-04	1.3e-04	1.3e-04	7.2e-05	6.5e-05	1.0e-04	8.2e-05	4.8e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.7e-05	2.0e-05	8.7e-06	6.5e-06	7.3e-06	7.7e-06	5.9e-06	6.4e-06
Total Type B Uncertainty	5.2e-04	1.4e-04	1.3e-04	7.5e-05	6.7e-05	1.1e-04	8.6e-05	5.1e-05
Degrees of Freedom	28.1	23.8	20.5	24.3	22.7	23.7	23.8	25.3

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --C

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	2.1453 5e-02	9.5089 7e-02	9.1636 7e-02	7.6806 8e-02	1.6082 9e-01	1.4975 5e-01	1.0262 6e-01	7.6413 9e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	2.6e-05	1.3e-05	4.2e-06	5.6e-06	1.6e-05	5.4e-06	4.7e-06	4.0e-06
Type B Uncertainty ^(c)	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Total Uncertainty ^(d)	9.5e-05	5.0e-05	1.9e-05	2.0e-05	5.5e-05	3.4e-05	2.8e-05	1.5e-05
Degrees of Freedom	28.7	52.5	60.3	103.2	26.0	41.7	36.2	44.8
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --C

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	2.3e-06	1.7e-05	6.9e-06	1.6e-05	1.3e-05	5.3e-06	1.8e-06	4.0e-06
Wavelength	8.5e-05	3.6e-05	1.3e-05	7.3e-06	5.1e-05	1.9e-05	1.3e-05	5.4e-06
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	7.9e-07	2.1e-06	2.1e-06	1.9e-06	2.7e-06	2.7e-06	2.2e-06	1.9e-06
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	1.4e-06	3.8e-06	3.8e-06	3.4e-06	5.1e-06	4.9e-06	4.0e-06	3.4e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	3.3e-05	2.6e-05	9.7e-06	7.4e-06	0.0e+00	2.6e-05	2.3e-05	1.2e-05
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	5.4e-07	2.0e-06	8.0e-07	5.0e-07	1.1e-06	1.2e-06	7.5e-07	6.6e-07
Total Type B Uncertainty	9.1e-05	4.8e-05	1.8e-05	1.9e-05	5.3e-05	3.3e-05	2.7e-05	1.4e-05
Degrees of Freedom	24.8	46.1	54.7	90.0	22.0	39.6	34.2	38.7

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --D

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	3.6113 5e-04	5.1569 9e-03	8.3845 9e-03	8.2919 2e-03	2.6400 2e-02	3.2145 1e-02	2.2495 5e-02	1.6658 7e-02
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	1.1e-06	1.9e-06	5.4e-07	1.0e-06	3.4e-06	1.7e-06	2.5e-06	1.2e-06
Type B Uncertainty ^(c)	2.5e-06	7.1e-06	2.7e-06	4.2e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Total Uncertainty ^(d)	2.7e-06	7.3e-06	2.8e-06	4.3e-06	1.4e-05	9.4e-06	6.7e-06	3.5e-06
Degrees of Freedom	28.9	45.9	55.4	104.1	38.6	32.3	52.2	68.6
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --D

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	8.0e-08	2.1e-06	1.3e-06	3.2e-06	4.3e-06	2.1e-06	6.7e-07	1.4e-06
Wavelength	2.4e-06	5.6e-06	8.7e-07	1.7e-06	1.2e-05	2.7e-06	3.2e-06	9.8e-07
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	2.8e-08	2.6e-07	3.9e-07	3.8e-07	9.2e-07	1.1e-06	8.2e-07	6.5e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	4.9e-08	4.6e-07	6.9e-07	6.8e-07	1.6e-06	1.9e-06	1.5e-06	1.2e-06
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	4.2e-07	3.7e-06	2.1e-06	2.0e-06	5.7e-06	8.3e-06	5.0e-06	2.4e-06
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	1.8e-08	2.2e-07	1.5e-07	1.1e-07	3.8e-07	5.4e-07	3.3e-07	2.9e-07
Total Type B Uncertainty	2.5e-06	7.1e-06	2.7e-06	4.2e-06	1.4e-05	9.2e-06	6.2e-06	3.3e-06
Degrees of Freedom	20.2	40.3	51.4	94.0	34.6	30.2	39.9	55.1

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

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Date :

Measurement Results

Results of Step 5 of the comparison. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --E

Measurement Results

Wavelength (nm)	380	400	500	600	700	800	900	1000
Spectral Transmittance ^(a)	1.2717 2e-05	3.2428 4e-04	9.0473 9e-04	9.6739 6e-04	4.9169 6e-03	9.4713 4e-03	8.2585 9e-03	6.9762 0e-03
Number of Measurements	3	3	3	3	3	3	3	3
Temperature	23.1	23.2	23.2	23.2	23.2	23.2	23.2	23.2
Type A Uncertainty ^(b)	8.0e-07	4.4e-07	2.6e-07	3.3e-07	1.3e-06	1.7e-06	2.0e-06	1.0e-06
Type B Uncertainty ^(c)	1.4e-07	6.6e-07	2.7e-07	6.5e-07	3.4e-06	1.3e-06	1.2e-06	1.5e-06
Total Uncertainty ^(d)	8.2e-07	8.0e-07	3.7e-07	7.3e-07	3.7e-06	2.2e-06	2.3e-06	1.8e-06
Degrees of Freedom	27.6	65.4	85.0	103.3	33.3	56.7	43.8	114.0
Date	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014	13-Oct-2014

^(a)**Spectral transmittance.** The value of the spectral transmittance of the central 17 mm diameter of the filter as measured by the participant laboratory. ^(b)**Type A Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to reproducibility of the measurement. ^(c)**Type B Uncertainty.** The uncertainties associated with the spectral transmittance values attributed to all type B sources. ^(d)**Total Uncertainty.** The total uncertainty of the measurement of spectral transmittance for a coverage factor of k=1.

Type B Uncertainty Budget^(a)

Measurement results for Step 5. All uncertainties should be reported as absolute uncertainties.

Laboratory: MSL (NMISA Set)

Filter Identifier: --E

Wavelength (nm)	380	400	500	600	700	800	900	1000
Nonlinearity	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Temperature	4.1e-09	2.1e-07	2.0e-07	5.5e-07	1.2e-06	8.5e-07	3.1e-07	1.1e-06
Wavelength	1.4e-07	5.2e-07	1.1e-07	3.0e-07	3.2e-06	3.1e-07	7.5e-07	9.9e-08
Stray Light	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Beam Size & Position	1.8e-09	3.2e-08	7.7e-08	8.2e-08	3.2e-07	5.3e-07	4.8e-07	4.2e-07
Inter-reflection	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Obliquity	2.5e-09	4.5e-08	1.1e-07	1.2e-07	4.5e-07	7.6e-07	6.8e-07	6.0e-07
Polarization	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Filter Drift & Instability	0.0e+00	3.5e-07	0.0e+00	9.4e-08	0.0e+00	0.0e+00	0.0e+00	7.0e-07
Bandwidth	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Non Parallel Filter Surfaces	6.0e-10	1.3e-08	1.5e-08	1.2e-08	6.7e-08	1.5e-07	1.1e-07	1.2e-07
Total Type B Uncertainty	1.4e-07	6.6e-07	2.7e-07	6.5e-07	3.4e-06	1.3e-06	1.2e-06	1.5e-06
Degrees of Freedom	19.1	41.2	90.1	78.2	25.9	59.5	44.4	92.9

^(a) Please record any uncertainties considered negligible as zero (rather than e.g. < some value) ^(b) Add lines to the table as necessary, itemising other components of uncertainty considered

Signature :

Date :