CCPR-K2.b

Spectral responsivity measurements in the wavelength range 300 nm to 1000 nm

Degrees of equivalence

and

Graphs of equivalence

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CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 300 nm **Lab *j*** ⇨

Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.085	0.566
NRC	-0.075	0.232
IFA	-0.298	1.378
NPL	-0.024	0.276
HUT	0.598	1.669
OMH	-1.131	2.481
SMU	-2.859	0.846
NMi	-0.130	0.349
NIST	0.187	1.361
NMIJ	0.651	1.641
VNIIOFI	-1.447	2.251
CSIR		
BNM/INM	0.173	0.445
MSL	2.080	1.183
PTB	-0.290	0.344
IEN		
KRISS	0.728	0.530
BIPM	0.613	0.860

	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.010	0.63	0.213	1.51	-0.062	0.66	-0.683	1.78	1.046	2.55	2.774	1.02	0.045	0.70	-0.272	1.49
NRC	0.010	0.63			0.223	1.41	-0.051	0.39	-0.673	1.69	1.057	2.49	2.784	0.87	0.055	0.45	-0.262	1.39
IFA	-0.213	1.51	-0.223	1.41			-0.275	1.42	-0.896	2.18	0.833	2.84	2.561	1.62	-0.168	1.44	-0.485	1.95
NPL	0.062	0.66	0.051	0.39	0.275	1.42			-0.622	1.70	1.108	2.50	2.836	0.89	0.106	0.49	-0.211	1.40
HUT	0.683	1.78	0.673	1.69	0.896	2.18	0.622	1.70			1.729	2.99	3.457	1.87	0.728	1.72	0.411	2.16
OMH	-1.046	2.55	-1.057	2.49	-0.833	2.84	-1.108	2.50	-1.729	2.99			1.728	2.61	-1.002	2.51	-1.319	2.83
SMU	-2.774	1.02	-2.784	0.87	-2.561	1.62	-2.836	0.89	-3.457	1.87	-1.728	2.61			-2.729	0.92	-3.046	1.60
NMi	-0.045	0.70	-0.055	0.45	0.168	1.44	-0.106	0.49	-0.728	1.72	1.002	2.51	2.729	0.92			-0.317	1.42
NIST	0.272	1.49	0.262	1.39	0.485	1.95	0.211	1.40	-0.411	2.16	1.319	2.83	3.046	1.60	0.317	1.42		
NMIJ	0.736	1.75	0.726	1.67	0.949	2.15	0.675	1.68	0.053	2.35	1.783	2.98	3.510	1.85	0.781	1.69	0.464	2.14
VNIIOFI	-1.362	2.33	-1.372	2.27	-1.149	2.65	-1.424	2.28	-2.045	2.81	-0.316	3.35	1.412	2.41	-1.317	2.29	-1.634	2.64
CSIR																		
BNM/INM	0.258	0.75	0.248	0.53	0.471	1.46	0.197	0.56	-0.425	1.74	1.304	2.52	3.032	0.96	0.303	0.61	-0.014	1.45
MSL	2.166	1.31	2.155	1.20	2.378	1.82	2.104	1.21	1.482	2.05	3.212	2.74	4.939	1.44	2.210	1.24	1.893	1.80
PTB	-0.204	0.70	-0.215	0.45	0.009	1.44	-0.266	0.49	-0.888	1.72	0.842	2.51	2.570	0.92	-0.160	0.54	-0.477	1.42
IEN																		
KRISS	0.814	0.81	0.803	0.60	1.027	1.49	0.752	0.63	0.130	1.76	1.860	2.54	3.588	1.00	0.858	0.67	0.541	1.48
BIPM	0.698	1.05	0.688	0.91	0.911	1.64	0.637	0.93	0.015	1.89	1.745	2.63	3.472	1.21	0.743	0.95	0.426	1.62

	D_i / 10-2	U_i / 10-2
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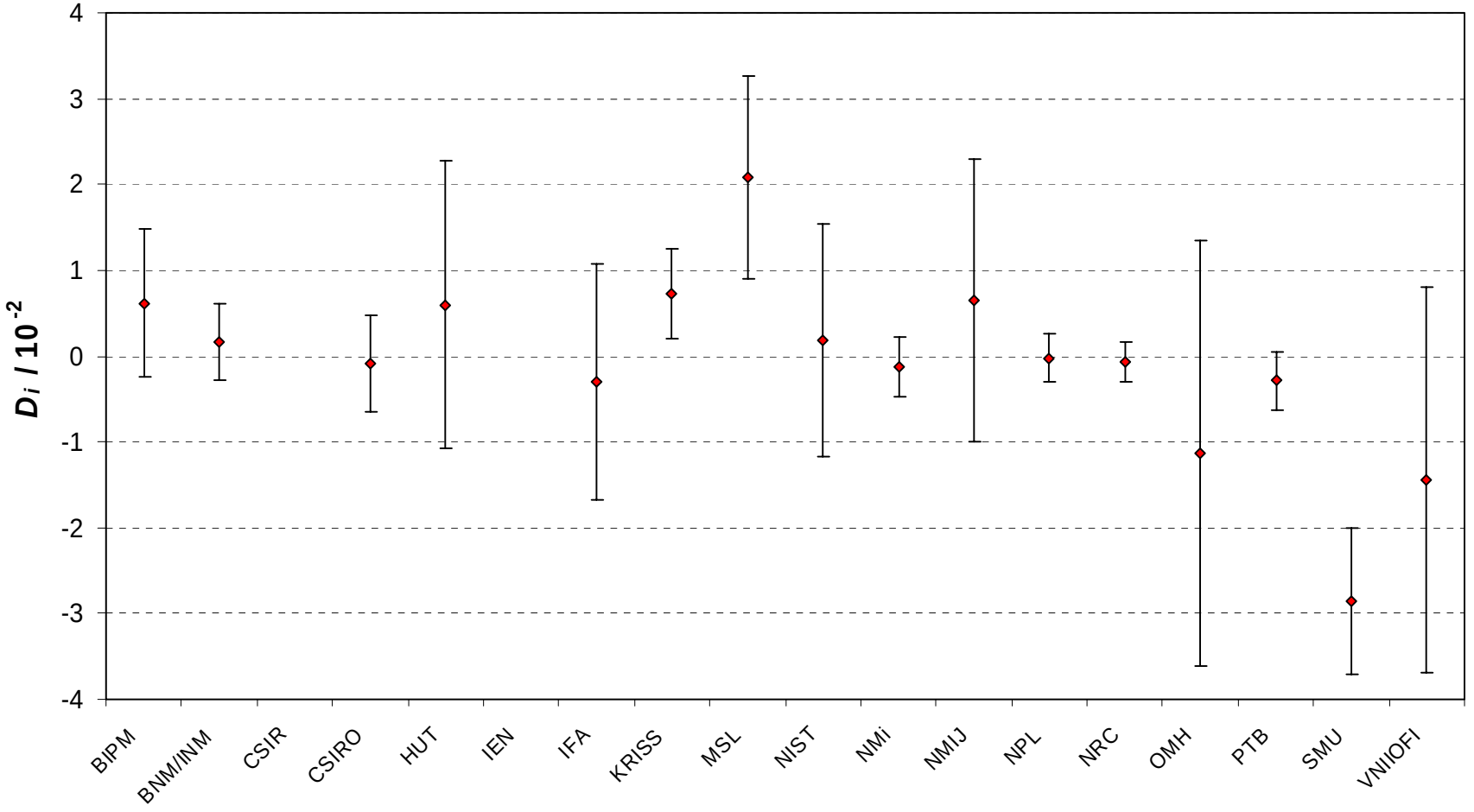
	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.736	1.75	1.362	2.33			-0.258	0.75	-2.166	1.31	0.204	0.70			-0.814	0.81	-0.698	1.05
NRC	-0.726	1.67	1.372	2.27			-0.248	0.53	-2.155	1.20	0.215	0.45			-0.803	0.60	-0.688	0.91
IFA	-0.949	2.15	1.149	2.65			-0.471	1.46	-2.378	1.82	-0.009	1.44			-1.027	1.49	-0.911	1.64
NPL	-0.675	1.68	1.424	2.28			-0.197	0.56	-2.104	1.21	0.266	0.49			-0.752	0.63	-0.637	0.93
HUT	-0.053	2.35	2.045	2.81			0.425	1.74	-1.482	2.05	0.888	1.72			-0.130	1.76	-0.015	1.89
OMH	-1.783	2.98	0.316	3.35			-1.304	2.52	-3.212	2.74	-0.842	2.51			-1.860	2.54	-1.745	2.63
SMU	-3.510	1.85	-1.412	2.41			-3.032	0.96	-4.939	1.44	-2.570	0.92			-3.588	1.00	-3.472	1.21
NMi	-0.781	1.69	1.317	2.29			-0.303	0.61	-2.210	1.24	0.160	0.54			-0.858	0.67	-0.743	0.95
NIST	-0.464	2.14	1.634	2.64			0.014	1.45	-1.893	1.80	0.477	1.42			-0.541	1.48	-0.426	1.62
NMIJ			2.098	2.79			0.478	1.71	-1.429	2.02	0.941	1.69			-0.077	1.74	0.038	1.87
VNIIOFI	-2.098	2.79					-1.620	2.30	-3.527	2.54	-1.158	2.29			-2.176	2.32	-2.060	2.42
CSIR																		
BNM/INM	-0.478	1.71	1.620	2.30					-1.907	1.27	0.463	0.60			-0.555	0.73	-0.440	0.99
MSL	1.429	2.02	3.527	2.54			1.907	1.27			2.370	1.23			1.352	1.30	1.467	1.46
PTB	-0.941	1.69	1.158	2.29			-0.463	0.60	-2.370	1.23					-1.018	0.67	-0.903	0.95
IEN																		
KRISS	0.077	1.74	2.176	2.32			0.555	0.73	-1.352	1.30	1.018	0.67					0.115	1.03
BIPM	-0.038	1.87	2.060	2.42			0.440	0.99	-1.467	1.46	0.903	0.95			-0.115	1.03		

CCPR-K2.b Spectral responsivity λ = 300 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

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Wavelength = 320 nm

Lab *j* ⇨

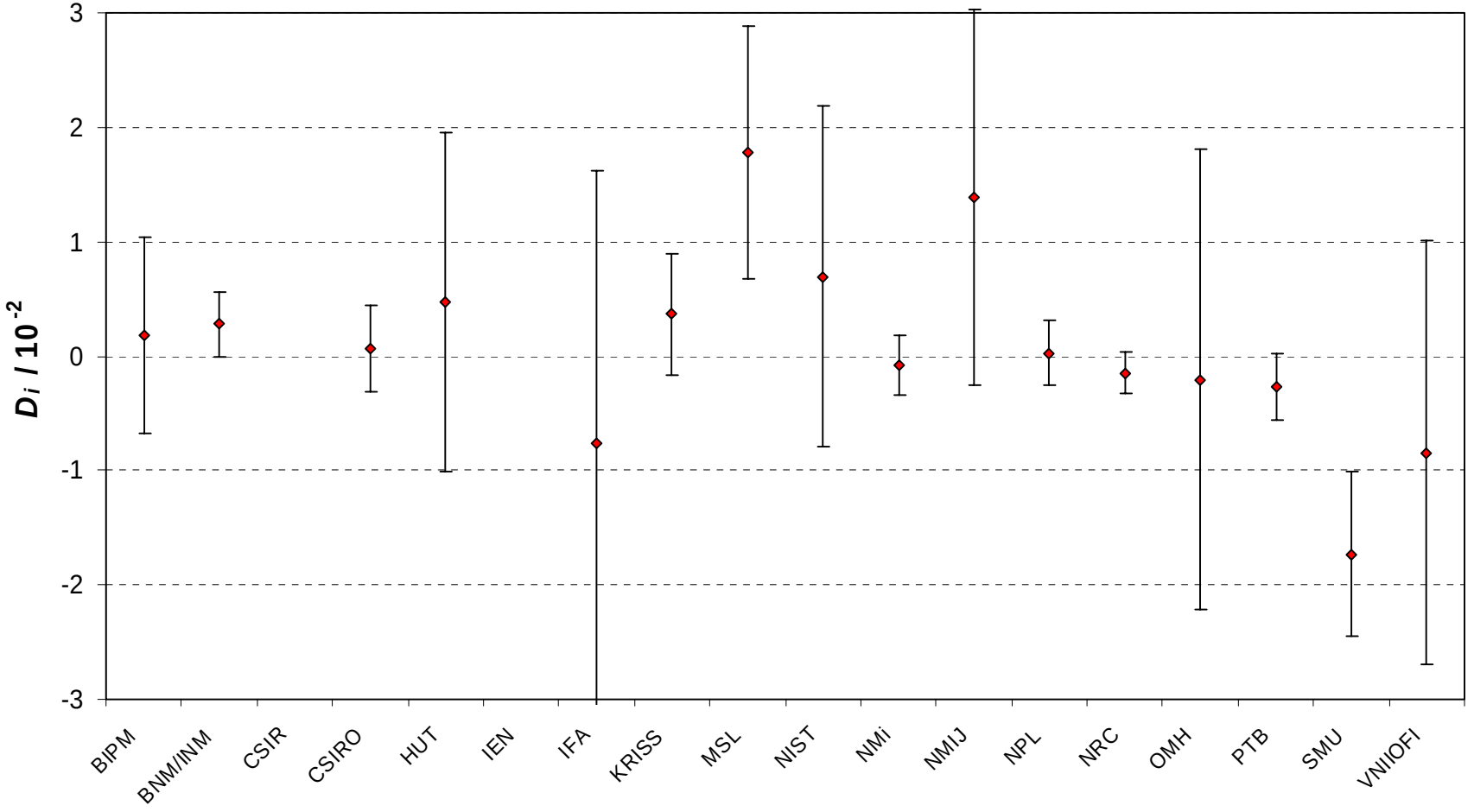
Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	**0.067**	0.380			**0.218**	0.44	**0.824**	2.42	**0.039**	0.50	**-0.405**	1.53	**0.272**	2.04	**1.799**	0.82	**0.152**	0.50	**-0.629**	1.55
NRC	**-0.150**	0.183	**-0.218**	0.44			**0.606**	2.39	**-0.179**	0.36	**-0.623**	1.49	**0.054**	2.01	**1.581**	0.74	**-0.066**	0.35	**-0.847**	1.51
IFA	**-0.756**	2.380	**-0.824**	2.42	**-0.606**	2.39			**-0.784**	2.40	**-1.228**	2.81	**-0.551**	3.11	**0.975**	2.49	**-0.672**	2.40	**-1.453**	2.82
NPL	**0.028**	0.278	**-0.039**	0.50	**0.179**	0.36	**0.784**	2.40			**-0.444**	1.51	**0.233**	2.03	**1.759**	0.78	**0.113**	0.42	**-0.669**	1.53
HUT	**0.472**	1.475	**0.405**	1.53	**0.623**	1.49	**1.228**	2.81	**0.444**	1.51			**0.677**	2.49	**2.203**	1.64	**0.557**	1.51	**-0.225**	2.11
OMH	**-0.205**	2.007	**-0.272**	2.04	**-0.054**	2.01	**0.551**	3.11	**-0.233**	2.03	**-0.677**	2.49			**1.526**	2.13	**-0.120**	2.03	**-0.902**	2.50
SMU	**-1.731**	0.723	**-1.799**	0.82	**-1.581**	0.74	**-0.975**	2.49	**-1.759**	0.78	**-2.203**	1.64	**-1.526**	2.13			**-1.647**	0.77	**-2.428**	1.66
NMi	**-0.085**	0.264	**-0.152**	0.50	**0.066**	0.35	**0.672**	2.40	**-0.113**	0.42	**-0.557**	1.51	**0.120**	2.03	**1.647**	0.77			**-0.781**	1.53
NIST	**0.697**	1.496	**0.629**	1.55	**0.847**	1.51	**1.453**	2.82	**0.669**	1.53	**0.225**	2.11	**0.902**	2.50	**2.428**	1.66	**0.781**	1.53		
NMIJ	**1.393**	1.642	**1.325**	1.69	**1.543**	1.66	**2.149**	2.90	**1.365**	1.67	**0.921**	2.21	**1.598**	2.59	**3.124**	1.79	**1.477**	1.67	**0.696**	2.23
VNIIOFI	**-0.849**	1.852	**-0.917**	1.90	**-0.699**	1.87	**-0.093**	3.02	**-0.877**	1.88	**-1.321**	2.37	**-0.644**	2.73	**0.882**	1.99	**-0.765**	1.88	**-1.546**	2.39
CSIR																				
BNM/INM	**0.278**	0.284	**0.211**	0.51	**0.429**	0.36	**1.035**	2.40	**0.250**	0.44	**-0.194**	1.51	**0.483**	2.03	**2.010**	0.78	**0.363**	0.43	**-0.418**	1.53
MSL	**1.782**	1.109	**1.714**	1.17	**1.932**	1.12	**2.538**	2.63	**1.754**	1.14	**1.310**	1.85	**1.987**	2.29	**3.513**	1.31	**1.866**	1.14	**1.085**	1.86
PTB	**-0.267**	0.290	**-0.334**	0.51	**-0.117**	0.37	**0.489**	2.40	**-0.295**	0.44	**-0.739**	1.51	**-0.062**	2.03	**1.464**	0.78	**-0.182**	0.43	**-0.964**	1.53
IEN																				
KRISS	**0.367**	0.527	**0.299**	0.67	**0.517**	0.57	**1.123**	2.44	**0.339**	0.62	**-0.105**	1.58	**0.572**	2.08	**2.098**	0.90	**0.451**	0.62	**-0.330**	1.60
BIPM	**0.176**	0.858	**0.108**	0.96	**0.326**	0.89	**0.932**	2.54	**0.147**	0.92	**-0.297**	1.72	**0.380**	2.18	**1.907**	1.12	**0.260**	0.91	**-0.521**	1.73

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	**0.067**	0.380	**-1.325**	1.69	**0.917**	1.90			**-0.211**	0.51	**-1.714**	1.17	**0.334**	0.51			**-0.299**	0.67	**-0.108**	0.96
NRC	**-0.150**	0.183	**-1.543**	1.66	**0.699**	1.87			**-0.429**	0.36	**-1.932**	1.12	**0.117**	0.37			**-0.517**	0.57	**-0.326**	0.89
IFA	**-0.756**	2.380	**-2.149**	2.90	**0.093**	3.02			**-1.035**	2.40	**-2.538**	2.63	**-0.489**	2.40			**-1.123**	2.44	**-0.932**	2.54
NPL	**0.028**	0.278	**-1.365**	1.67	**0.877**	1.88			**-0.250**	0.44	**-1.754**	1.14	**0.295**	0.44			**-0.339**	0.62	**-0.147**	0.92
HUT	**0.472**	1.475	**-0.921**	2.21	**1.321**	2.37			**0.194**	1.51	**-1.310**	1.85	**0.739**	1.51			**0.105**	1.58	**0.297**	1.72
OMH	**-0.205**	2.007	**-1.598**	2.59	**0.644**	2.73			**-0.483**	2.03	**-1.987**	2.29	**0.062**	2.03			**-0.572**	2.08	**-0.380**	2.18
SMU	**-1.731**	0.723	**-3.124**	1.79	**-0.882**	1.99			**-2.010**	0.78	**-3.513**	1.31	**-1.464**	0.78			**-2.098**	0.90	**-1.907**	1.12
NMi	**-0.085**	0.264	**-1.477**	1.67	**0.765**	1.88			**-0.363**	0.43	**-1.866**	1.14	**0.182**	0.43			**-0.451**	0.62	**-0.260**	0.91
NIST	**0.697**	1.496	**-0.696**	2.23	**1.546**	2.39			**0.418**	1.53	**-1.085**	1.86	**0.964**	1.53			**0.330**	1.60	**0.521**	1.73
NMIJ	**1.393**	1.642			**2.242**	2.48			**1.114**	1.68	**-0.389**	1.98	**1.660**	1.68			**1.026**	1.73	**1.217**	1.86
VNIIOFI	**-0.849**	1.852	**-2.242**	2.48					**-1.128**	1.88	**-2.631**	2.16	**-0.582**	1.88			**-1.216**	1.93	**-1.025**	2.05
CSIR																				
BNM/INM	**0.278**	0.284	**-1.114**	1.68	**1.128**	1.88					**-1.503**	1.15	**0.545**	0.44			**-0.088**	0.62	**0.103**	0.92
MSL	**1.782**	1.109	**0.389**	1.98	**2.631**	2.16			**1.503**	1.15			**2.049**	1.15			**1.415**	1.23	**1.606**	1.40
PTB	**-0.267**	0.290	**-1.660**	1.68	**0.582**	1.88			**-0.545**	0.44	**-2.049**	1.15					**-0.634**	0.63	**-0.443**	0.92
IEN																				
KRISS	**0.367**	0.527	**-1.026**	1.73	**1.216**	1.93			**0.088**	0.62	**-1.415**	1.23	**0.634**	0.63					**0.191**	1.02
BIPM	**0.176**	0.858	**-1.217**	1.86	**1.025**	2.05			**-0.103**	0.92	**-1.606**	1.40	**0.443**	0.92			**-0.191**	1.02		

CCPR-K2.b Spectral responsivity λ = 320 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



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$D_{ij} = Di - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 340 nm

Lab *j* ⇨

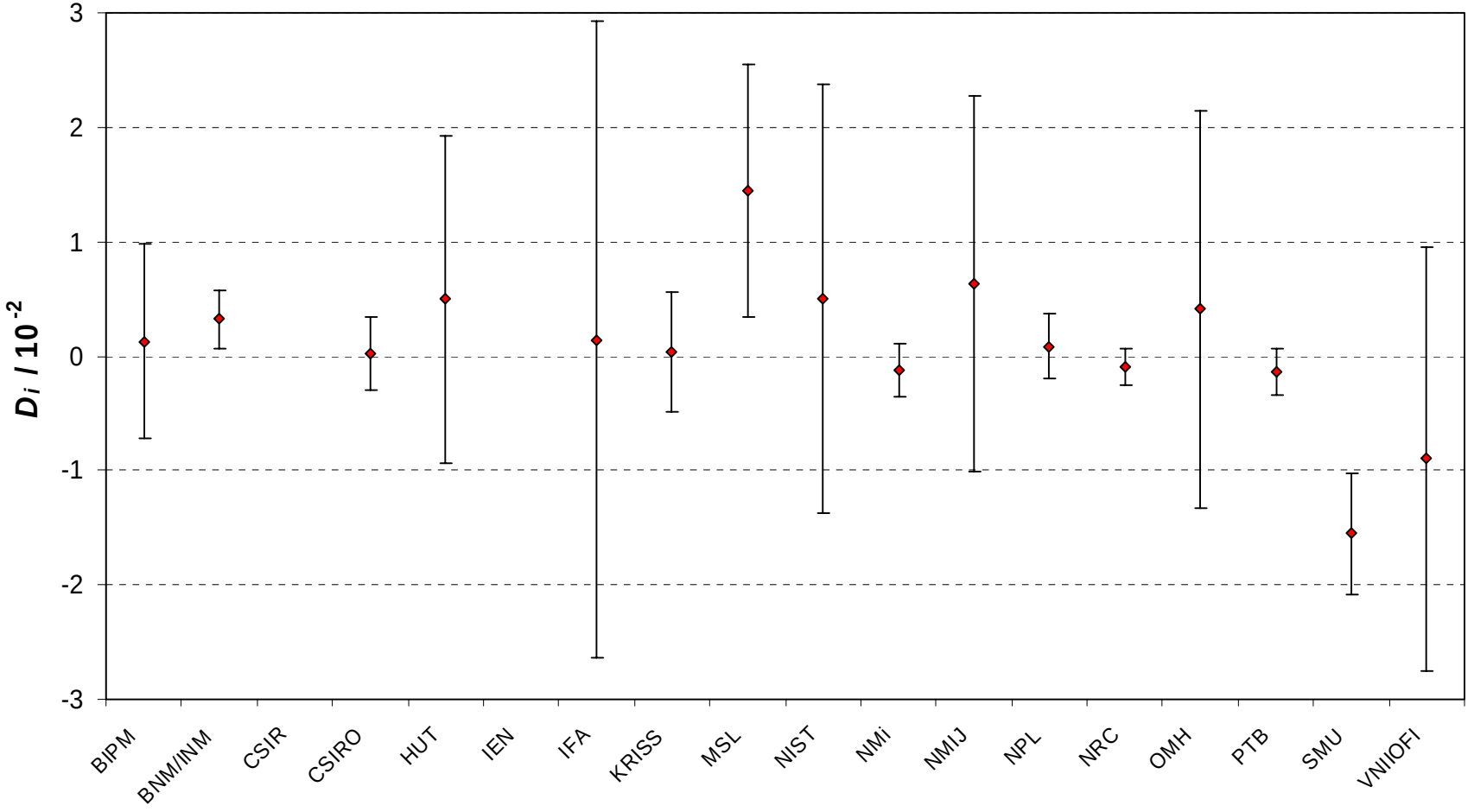
Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	0.025	0.317			0.122	0.37	-0.120	2.80	-0.061	0.46	-0.470	1.47	-0.382	1.77	1.578	0.62	0.148	0.42	-0.475	1.90
NRC	-0.096	0.162	-0.122	0.37			-0.241	2.79	-0.183	0.35	-0.592	1.44	-0.504	1.75	1.456	0.54	0.027	0.30	-0.596	1.88
IFA	0.145	2.780	0.120	2.80	0.241	2.79			0.058	2.80	-0.350	3.13	-0.263	3.28	1.698	2.83	0.268	2.79	-0.355	3.35
NPL	0.087	0.287	0.061	0.46	0.183	0.35	-0.058	2.80			-0.409	1.47	-0.321	1.77	1.640	0.60	0.210	0.40	-0.413	1.90
HUT	0.495	1.430	0.470	1.47	0.592	1.44	0.350	3.13	0.409	1.47			0.088	2.25	2.048	1.52	0.618	1.46	-0.005	2.36
OMH	0.408	1.741	0.382	1.77	0.504	1.75	0.263	3.28	0.321	1.77	-0.088	2.25			1.961	1.81	0.531	1.76	-0.092	2.56
SMU	-1.553	0.526	-1.578	0.62	-1.456	0.54	-1.698	2.83	-1.640	0.60	-2.048	1.52	-1.961	1.81			-1.430	0.58	-2.053	1.94
NMi	-0.123	0.229	-0.148	0.42	-0.027	0.30	-0.268	2.79	-0.210	0.40	-0.618	1.46	-0.531	1.76	1.430	0.58			-0.623	1.89
NIST	0.500	1.870	0.475	1.90	0.596	1.88	0.355	3.35	0.413	1.90	0.005	2.36	0.092	2.56	2.053	1.94	0.623	1.89		
NMIJ	0.633	1.642	0.608	1.68	0.730	1.65	0.488	3.23	0.546	1.67	0.138	2.18	0.225	2.39	2.186	1.72	0.756	1.67	0.133	2.49
VNIIOFI	-0.898	1.852	-0.924	1.89	-0.802	1.86	-1.043	3.34	-0.985	1.88	-1.394	2.34	-1.306	2.54	0.655	1.93	-0.775	1.87	-1.398	2.64
CSIR																				
BNM/INM	0.324	0.253	0.298	0.43	0.420	0.32	0.179	2.80	0.237	0.41	-0.172	1.46	-0.084	1.76	1.877	0.59	0.447	0.38	-0.176	1.89
MSL	1.444	1.098	1.419	1.14	1.541	1.11	1.300	2.99	1.358	1.14	0.949	1.80	1.037	2.05	2.997	1.21	1.567	1.12	0.944	2.17
PTB	-0.132	0.204	-0.157	0.41	-0.035	0.28	-0.277	2.79	-0.219	0.38	-0.627	1.45	-0.540	1.75	1.421	0.57	-0.009	0.34	-0.632	1.89
IEN																				
KRISS	0.031	0.522	0.005	0.63	0.127	0.56	-0.114	2.83	-0.056	0.62	-0.465	1.53	-0.377	1.82	1.583	0.74	0.154	0.59	-0.469	1.95
BIPM	0.124	0.850	0.099	0.92	0.221	0.87	-0.020	2.91	0.038	0.91	-0.371	1.67	-0.283	1.94	1.677	1.00	0.247	0.89	-0.376	2.06

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	0.025	0.317	-0.608	1.68	0.924	1.89			-0.298	0.43	-1.419	1.14	0.157	0.41			-0.005	0.63	-0.099	0.92
NRC	-0.096	0.162	-0.730	1.65	0.802	1.86			-0.420	0.32	-1.541	1.11	0.035	0.28			-0.127	0.56	-0.221	0.87
IFA	0.145	2.780	-0.488	3.23	1.043	3.34			-0.179	2.80	-1.300	2.99	0.277	2.79			0.114	2.83	0.020	2.91
NPL	0.087	0.287	-0.546	1.67	0.985	1.88			-0.237	0.41	-1.358	1.14	0.219	0.38			0.056	0.62	-0.038	0.91
HUT	0.495	1.430	-0.138	2.18	1.394	2.34			0.172	1.46	-0.949	1.80	0.627	1.45			0.465	1.53	0.371	1.67
OMH	0.408	1.741	-0.225	2.39	1.306	2.54			0.084	1.76	-1.037	2.05	0.540	1.75			0.377	1.82	0.283	1.94
SMU	-1.553	0.526	-2.186	1.72	-0.655	1.93			-1.877	0.59	-2.997	1.21	-1.421	0.57			-1.583	0.74	-1.677	1.00
NMi	-0.123	0.229	-0.756	1.67	0.775	1.87			-0.447	0.38	-1.567	1.12	0.009	0.34			-0.154	0.59	-0.247	0.89
NIST	0.500	1.870	-0.133	2.49	1.398	2.64			0.176	1.89	-0.944	2.17	0.632	1.89			0.469	1.95	0.376	2.06
NMIJ	0.633	1.642			1.531	2.48			0.309	1.67	-0.811	1.98	0.765	1.66			0.603	1.73	0.509	1.86
VNIIOFI	-0.898	1.852	-1.531	2.48					-1.222	1.88	-2.343	2.15	-0.766	1.87			-0.929	1.93	-1.023	2.04
CSIR																				
BNM/INM	0.324	0.253	-0.309	1.67	1.222	1.88					-1.121	1.13	0.456	0.36			0.293	0.60	0.199	0.90
MSL	1.444	1.098	0.811	1.98	2.343	2.15			1.121	1.13			1.576	1.12			1.414	1.22	1.320	1.39
PTB	-0.132	0.204	-0.765	1.66	0.766	1.87			-0.456	0.36	-1.576	1.12					-0.162	0.58	-0.256	0.89
IEN																				
KRISS	0.031	0.522	-0.603	1.73	0.929	1.93			-0.293	0.60	-1.414	1.22	0.162	0.58					-0.094	1.01
BIPM	0.124	0.850	-0.509	1.86	1.023	2.04			-0.199	0.90	-1.320	1.39	0.256	0.89			0.094	1.01		

CCPR-K2.b Spectral responsivity λ = 340 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 360 nm

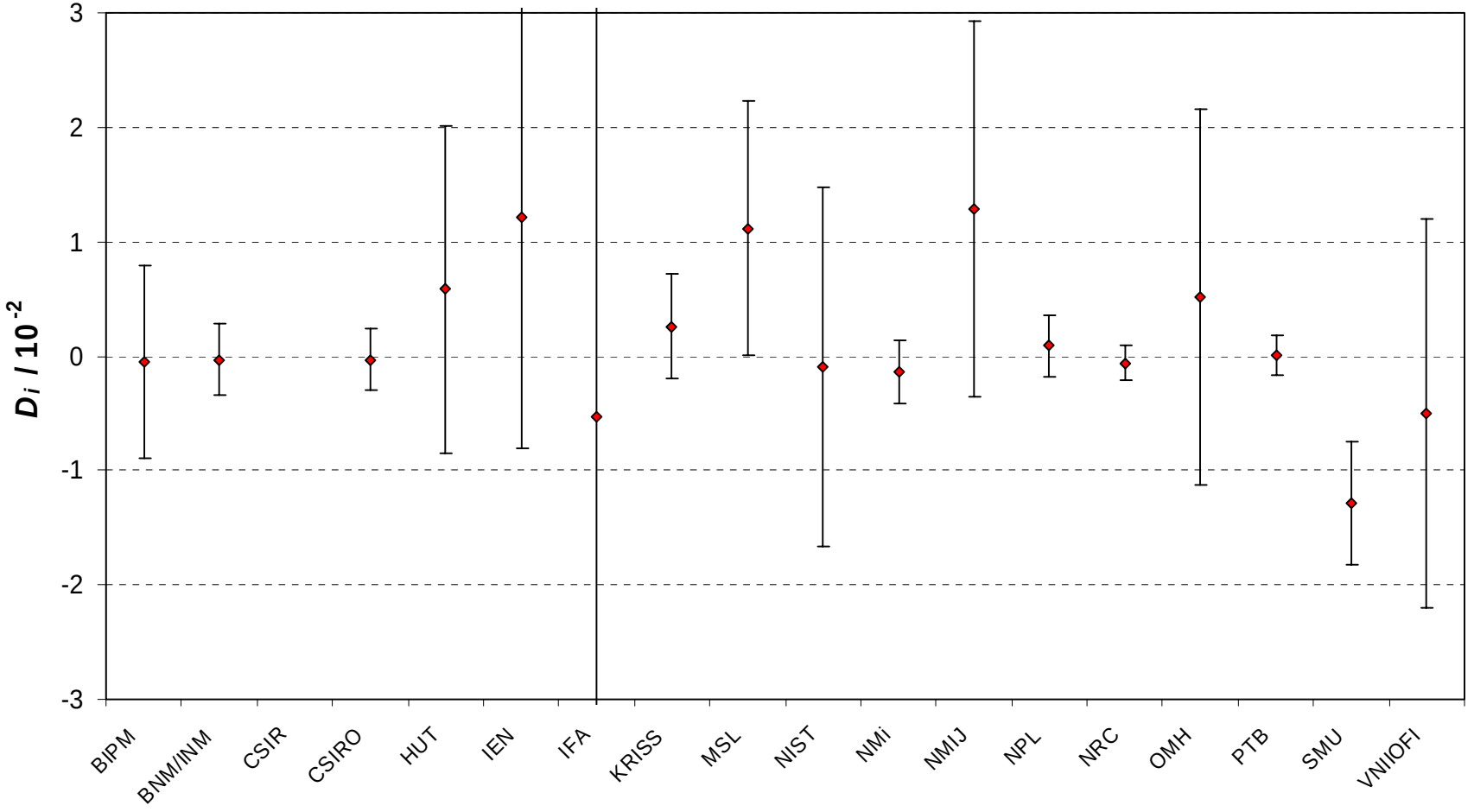
Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	-0.029	0.266			0.031	0.33	0.505	10.62	-0.118	0.41	-0.610	1.46	-0.543	1.67	1.260	0.60	0.110	0.42	0.065	1.59
NRC	-0.060	0.152	-0.031	0.33			0.474	10.62	-0.149	0.33	-0.642	1.44	-0.574	1.65	1.229	0.55	0.079	0.34	0.034	1.57
IFA	-0.534	10.620	-0.505	10.62	-0.474	10.62			-0.623	10.62	-1.115	10.72	-1.048	10.75	0.755	10.63	-0.395	10.62	-0.440	10.74
NPL	0.089	0.267	0.118	0.41	0.149	0.33	0.623	10.62			-0.493	1.46	-0.425	1.67	1.378	0.60	0.228	0.42	0.183	1.59
HUT	0.581	1.428	0.610	1.46	0.642	1.44	1.115	10.72	0.493	1.46			0.068	2.18	1.871	1.53	0.720	1.46	0.675	2.12
OMH	0.513	1.645	0.543	1.67	0.574	1.65	1.048	10.75	0.425	1.67	-0.068	2.18			1.803	1.73	0.653	1.67	0.607	2.27
SMU	-1.289	0.539	-1.260	0.60	-1.229	0.55	-0.755	10.63	-1.378	0.60	-1.871	1.53	-1.803	1.73			-1.150	0.61	-1.195	1.65
NMi	-0.139	0.277	-0.110	0.42	-0.079	0.34	0.395	10.62	-0.228	0.42	-0.720	1.46	-0.653	1.67	1.150	0.61			-0.045	1.60
NIST	-0.094	1.563	-0.065	1.59	-0.034	1.57	0.440	10.74	-0.183	1.59	-0.675	2.12	-0.607	2.27	1.195	1.65	0.045	1.60		
NMIJ	1.285	1.639	1.314	1.67	1.345	1.65	1.819	10.75	1.196	1.67	0.704	2.18	0.772	2.32	2.574	1.73	1.424	1.67	1.379	2.27
VNIIOFI	-0.503	1.699	-0.474	1.73	-0.442	1.71	0.031	10.76	-0.591	1.73	-1.084	2.23	-1.016	2.37	0.787	1.78	-0.364	1.73	-0.409	2.32
CSIR																				
BNM/INM	-0.033	0.313	-0.004	0.44	0.028	0.37	0.501	10.63	-0.121	0.44	-0.614	1.47	-0.546	1.68	1.257	0.63	0.106	0.45	0.061	1.60
MSL	1.117	1.114	1.147	1.15	1.178	1.12	1.652	10.68	1.029	1.15	0.536	1.81	0.604	1.98	2.407	1.23	1.257	1.15	1.211	1.92
PTB	0.014	0.174	0.043	0.35	0.075	0.24	0.548	10.62	-0.074	0.35	-0.567	1.44	-0.499	1.65	1.304	0.56	0.153	0.35	0.108	1.58
IEN	1.209	2.015	1.238	2.04	1.269	2.02	1.743	10.81	1.120	2.04	0.627	2.48	0.695	2.60	2.498	2.09	1.348	2.04	1.302	2.56
KRISS	0.258	0.458	0.287	0.56	0.318	0.50	0.792	10.63	0.169	0.56	-0.324	1.51	-0.256	1.71	1.547	0.71	0.397	0.56	0.352	1.64
BIPM	-0.055	0.845	-0.026	0.90	0.005	0.87	0.479	10.65	-0.144	0.90	-0.637	1.67	-0.569	1.85	1.234	1.00	0.084	0.91	0.039	1.78

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	-0.029	0.266	-1.314	1.67	0.474	1.73			0.004	0.44	-1.147	1.15	-0.043	0.35	-1.238	2.04	-0.287	0.56	0.026	0.90
NRC	-0.060	0.152	-1.345	1.65	0.442	1.71			-0.028	0.37	-1.178	1.12	-0.075	0.24	-1.269	2.02	-0.318	0.50	-0.005	0.87
IFA	-0.534	10.620	-1.819	10.75	-0.031	10.76			-0.501	10.63	-1.652	10.68	-0.548	10.62	-1.743	10.81	-0.792	10.63	-0.479	10.65
NPL	0.089	0.267	-1.196	1.67	0.591	1.73			0.121	0.44	-1.029	1.15	0.074	0.35	-1.120	2.04	-0.169	0.56	0.144	0.90
HUT	0.581	1.428	-0.704	2.18	1.084	2.23			0.614	1.47	-0.536	1.81	0.567	1.44	-0.627	2.48	0.324	1.51	0.637	1.67
OMH	0.513	1.645	-0.772	2.32	1.016	2.37			0.546	1.68	-0.604	1.98	0.499	1.65	-0.695	2.60	0.256	1.71	0.569	1.85
SMU	-1.289	0.539	-2.574	1.73	-0.787	1.78			-1.257	0.63	-2.407	1.23	-1.304	0.56	-2.498	2.09	-1.547	0.71	-1.234	1.00
NMi	-0.139	0.277	-1.424	1.67	0.364	1.73			-0.106	0.45	-1.257	1.15	-0.153	0.35	-1.348	2.04	-0.397	0.56	-0.084	0.91
NIST	-0.094	1.563	-1.379	2.27	0.409	2.32			-0.061	1.60	-1.211	1.92	-0.108	1.58	-1.302	2.56	-0.352	1.64	-0.039	1.78
NMIJ	1.285	1.639			1.788	2.37			1.318	1.68	0.168	1.98	1.271	1.65	0.077	2.60	1.027	1.71	1.340	1.85
VNIIOFI	-0.503	1.699	-1.788	2.37					-0.470	1.74	-1.620	2.03	-0.517	1.71	-1.711	2.64	-0.760	1.77	-0.447	1.91
CSIR																				
BNM/INM	-0.033	0.313	-1.318	1.68	0.470	1.74					-1.150	1.16	-0.047	0.38	-1.241	2.05	-0.290	0.58	0.023	0.92
MSL	1.117	1.114	-0.168	1.98	1.620	2.03			1.150	1.16			1.103	1.13	-0.091	2.30	0.860	1.21	1.173	1.40
PTB	0.014	0.174	-1.271	1.65	0.517	1.71			0.047	0.38	-1.103	1.13			-1.194	2.03	-0.243	0.51	0.070	0.87
IEN	1.209	2.015	-0.077	2.60	1.711	2.64			1.241	2.05	0.091	2.30	1.194	2.03			0.951	2.07	1.264	2.19
KRISS	0.258	0.458	-1.027	1.71	0.760	1.77			0.290	0.58	-0.860	1.21	0.243	0.51	-0.951	2.07			0.313	0.98
BIPM	-0.055	0.845	-1.340	1.85	0.447	1.91			-0.023	0.92	-1.173	1.40	-0.070	0.87	-1.264	2.19	-0.313	0.98		

CCPR-K2.b Spectral responsivity λ = 360 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 380 nm **Lab *j*** ⇨

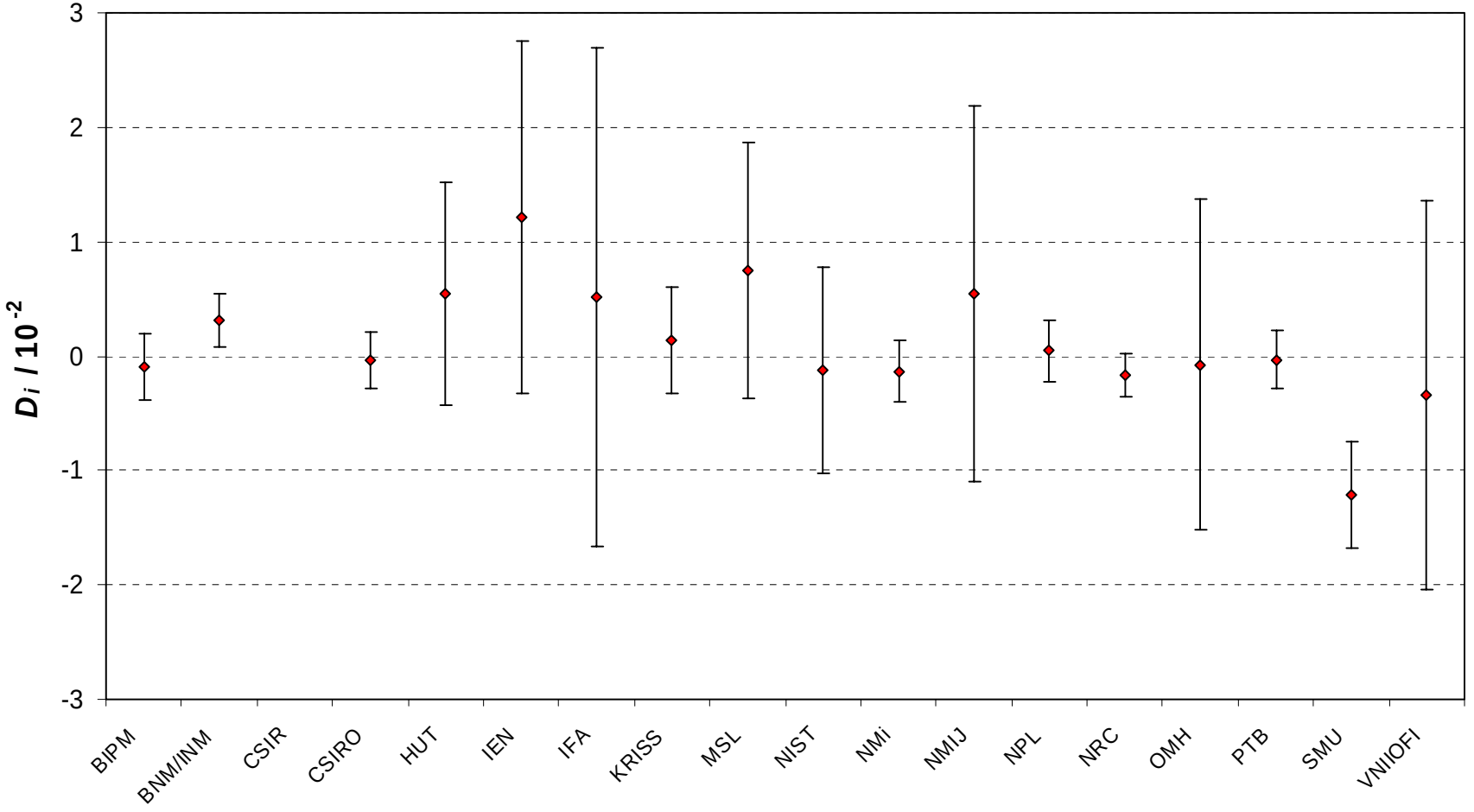
Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	**-0.032**	0.248			**0.135**	0.34	**-0.542**	2.20	**-0.077**	0.39	**-0.580**	1.01	**0.041**	1.47	**1.181**	0.52	**0.099**	0.39	**0.092**	0.94
NRC	**-0.168**	0.187	**-0.135**	0.34			**-0.678**	2.19	**-0.212**	0.35	**-0.715**	1.00	**-0.095**	1.46	**1.045**	0.50	**-0.036**	0.35	**-0.044**	0.93
IFA	**0.510**	2.179	**0.542**	2.20	**0.678**	2.19			**0.466**	2.20	**-0.037**	2.39	**0.583**	2.61	**1.723**	2.23	**0.641**	2.20	**0.634**	2.36
NPL	**0.044**	0.265	**0.077**	0.39	**0.212**	0.35	**-0.466**	2.20			**-0.503**	1.01	**0.117**	1.47	**1.257**	0.53	**0.176**	0.40	**0.168**	0.95
HUT	**0.547**	0.969	**0.580**	1.01	**0.715**	1.00	**0.037**	2.39	**0.503**	1.01			**0.620**	1.74	**1.760**	1.07	**0.679**	1.01	**0.671**	1.33
OMH	**-0.073**	1.444	**-0.041**	1.47	**0.095**	1.46	**-0.583**	2.61	**-0.117**	1.47	**-0.620**	1.74			**1.140**	1.51	**0.058**	1.47	**0.051**	1.70
SMU	**-1.213**	0.462	**-1.181**	0.52	**-1.045**	0.50	**-1.723**	2.23	**-1.257**	0.53	**-1.760**	1.07	**-1.140**	1.51			**-1.082**	0.53	**-1.089**	1.01
NMi	**-0.131**	0.263	**-0.099**	0.39	**0.036**	0.35	**-0.641**	2.20	**-0.176**	0.40	**-0.679**	1.01	**-0.058**	1.47	**1.082**	0.53			**-0.007**	0.95
NIST	**-0.124**	0.900	**-0.092**	0.94	**0.044**	0.93	**-0.634**	2.36	**-0.168**	0.95	**-0.671**	1.33	**-0.051**	1.70	**1.089**	1.01	**0.007**	0.95		
NMIJ	**0.549**	1.641	**0.581**	1.66	**0.716**	1.66	**0.039**	2.73	**0.504**	1.67	**0.001**	1.91	**0.622**	2.19	**1.762**	1.70	**0.680**	1.67	**0.673**	1.88
VNIIOFI	**-0.340**	1.701	**-0.308**	1.72	**-0.172**	1.72	**-0.850**	2.77	**-0.384**	1.73	**-0.887**	1.96	**-0.267**	2.23	**0.873**	1.76	**-0.209**	1.73	**-0.216**	1.93
CSIR																				
BNM/INM	**0.317**	0.235	**0.349**	0.37	**0.484**	0.33	**-0.193**	2.20	**0.272**	0.38	**-0.231**	1.01	**0.390**	1.46	**1.530**	0.52	**0.448**	0.38	**0.441**	0.94
MSL	**0.748**	1.115	**0.780**	1.14	**0.916**	1.13	**0.238**	2.45	**0.704**	1.15	**0.201**	1.48	**0.821**	1.82	**1.961**	1.20	**0.879**	1.15	**0.872**	1.43
PTB	**-0.033**	0.254	**0.000**	0.38	**0.135**	0.34	**-0.543**	2.20	**-0.077**	0.39	**-0.580**	1.01	**0.041**	1.47	**1.180**	0.53	**0.099**	0.39	**0.092**	0.94
IEN	**1.214**	1.546	**1.246**	1.57	**1.381**	1.56	**0.704**	2.68	**1.170**	1.57	**0.666**	1.83	**1.287**	2.12	**2.427**	1.61	**1.345**	1.57	**1.338**	1.79
KRISS	**0.137**	0.469	**0.170**	0.55	**0.305**	0.52	**-0.373**	2.23	**0.093**	0.56	**-0.410**	1.08	**0.211**	1.52	**1.350**	0.66	**0.269**	0.55	**0.262**	1.02
BIPM	**-0.090**	0.289	**-0.058**	0.40	**0.077**	0.37	**-0.600**	2.20	**-0.134**	0.42	**-0.638**	1.02	**-0.017**	1.47	**1.123**	0.54	**0.041**	0.41	**0.034**	0.95

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	**-0.032**	0.248	**-0.581**	1.66	**0.308**	1.72			**-0.349**	0.37	**-0.780**	1.14	**0.000**	0.38	**-1.246**	1.57	**-0.170**	0.55	**0.058**	0.40
NRC	**-0.168**	0.187	**-0.716**	1.66	**0.172**	1.72			**-0.484**	0.33	**-0.916**	1.13	**-0.135**	0.34	**-1.381**	1.56	**-0.305**	0.52	**-0.077**	0.37
IFA	**0.510**	2.179	**-0.039**	2.73	**0.850**	2.77			**0.193**	2.20	**-0.238**	2.45	**0.543**	2.20	**-0.704**	2.68	**0.373**	2.23	**0.600**	2.20
NPL	**0.044**	0.265	**-0.504**	1.67	**0.384**	1.73			**-0.272**	0.38	**-0.704**	1.15	**0.077**	0.39	**-1.170**	1.57	**-0.093**	0.56	**0.134**	0.42
HUT	**0.547**	0.969	**-0.001**	1.91	**0.887**	1.96			**0.231**	1.01	**-0.201**	1.48	**0.580**	1.01	**-0.666**	1.83	**0.410**	1.08	**0.638**	1.02
OMH	**-0.073**	1.444	**-0.622**	2.19	**0.267**	2.23			**-0.390**	1.46	**-0.821**	1.82	**-0.041**	1.47	**-1.287**	2.12	**-0.211**	1.52	**0.017**	1.47
SMU	**-1.213**	0.462	**-1.762**	1.70	**-0.873**	1.76			**-1.530**	0.52	**-1.961**	1.20	**-1.180**	0.53	**-2.427**	1.61	**-1.350**	0.66	**-1.123**	0.54
NMi	**-0.131**	0.263	**-0.680**	1.67	**0.209**	1.73			**-0.448**	0.38	**-0.879**	1.15	**-0.099**	0.39	**-1.345**	1.57	**-0.269**	0.55	**-0.041**	0.41
NIST	**-0.124**	0.900	**-0.673**	1.88	**0.216**	1.93			**-0.441**	0.94	**-0.872**	1.43	**-0.092**	0.94	**-1.338**	1.79	**-0.262**	1.02	**-0.034**	0.95
NMIJ	**0.549**	1.641			**0.889**	2.37			**0.232**	1.66	**-0.199**	1.98	**0.581**	1.67	**-0.665**	2.26	**0.411**	1.71	**0.639**	1.67
VNIIOFI	**-0.340**	1.701	**-0.889**	2.37					**-0.657**	1.72	**-1.088**	2.03	**-0.307**	1.73	**-1.554**	2.30	**-0.477**	1.77	**-0.250**	1.73
CSIR																				
BNM/INM	**0.317**	0.235	**-0.232**	1.66	**0.657**	1.72					**-0.431**	1.14	**0.349**	0.37	**-0.897**	1.57	**0.179**	0.54	**0.407**	0.40
MSL	**0.748**	1.115	**0.199**	1.98	**1.088**	2.03			**0.431**	1.14			**0.780**	1.14	**-0.466**	1.91	**0.610**	1.21	**0.838**	1.15
PTB	**-0.033**	0.254	**-0.581**	1.67	**0.307**	1.73			**-0.349**	0.37	**-0.780**	1.14			**-1.246**	1.57	**-0.170**	0.55	**0.058**	0.41
IEN	**1.214**	1.546	**0.665**	2.26	**1.554**	2.30			**0.897**	1.57	**0.466**	1.91	**1.246**	1.57			**1.076**	1.62	**1.304**	1.58
KRISS	**0.137**	0.469	**-0.411**	1.71	**0.477**	1.77			**-0.179**	0.54	**-0.610**	1.21	**0.170**	0.55	**-1.076**	1.62			**0.228**	0.57
BIPM	**-0.090**	0.289	**-0.639**	1.67	**0.250**	1.73			**-0.407**	0.40	**-0.838**	1.15	**-0.058**	0.41	**-1.304**	1.58	**-0.228**	0.57		

CCPR-K2.b Spectral responsivity λ = 380 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 400 nm **Lab *j*** ⇨

Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.084	0.211
NRC	-0.227	0.130
IFA	-0.678	1.500
NPL	-0.007	0.285
HUT	0.150	0.505
OMH	0.358	1.051
SMU	-0.050	0.354
NMi	-0.091	0.118
NIST	-0.079	0.541
NMIJ	0.387	1.641
VNIIOFI	-0.311	1.601
CSIR	1.697	5.400
BNM/INM	0.144	0.267
MSL	0.507	1.101
PTB	-0.054	0.135
IEN	0.437	0.812
KRISS	0.643	0.169
BIPM	-0.178	0.239

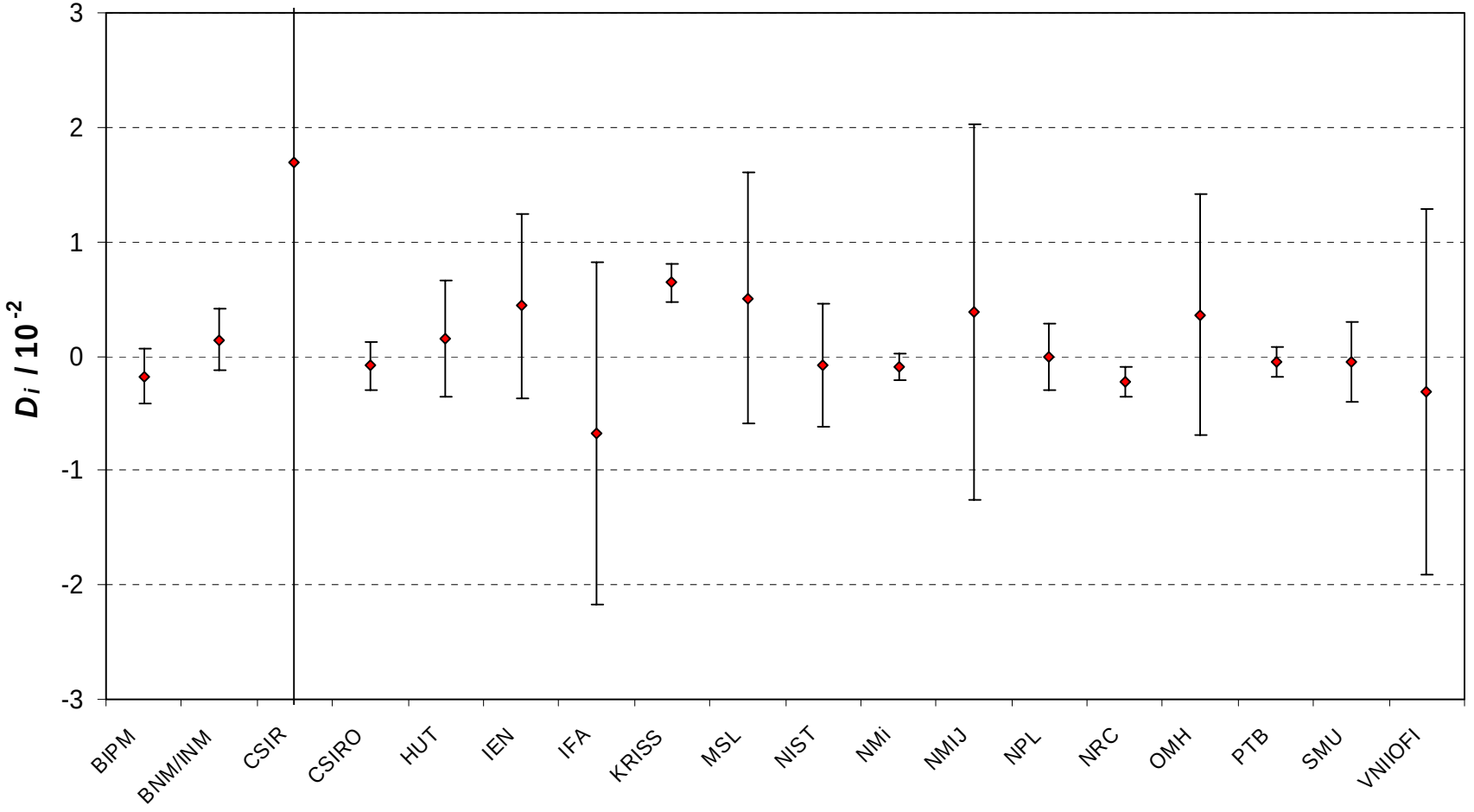
	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			0.143	0.26	0.594	1.52	-0.077	0.37	-0.234	0.56	-0.443	1.07	-0.034	0.41	0.007	0.26	-0.005	0.59
NRC	-0.143	0.26			0.451	1.51	-0.220	0.33	-0.377	0.53	-0.586	1.06	-0.177	0.38	-0.136	0.19	-0.148	0.56
IFA	-0.594	1.52	-0.451	1.51			-0.671	1.53	-0.828	1.59	-1.036	1.83	-0.628	1.54	-0.587	1.51	-0.599	1.60
NPL	0.077	0.37	0.220	0.33	0.671	1.53			-0.157	0.59	-0.365	1.09	0.043	0.45	0.084	0.32	0.072	0.62
HUT	0.234	0.56	0.377	0.53	0.828	1.59	0.157	0.59			-0.209	1.17	0.200	0.62	0.241	0.53	0.229	0.75
OMH	0.443	1.07	0.586	1.06	1.036	1.83	0.365	1.09	0.209	1.17			0.408	1.11	0.450	1.06	0.437	1.18
SMU	0.034	0.41	0.177	0.38	0.628	1.54	-0.043	0.45	-0.200	0.62	-0.408	1.11			0.042	0.37	0.029	0.65
NMi	-0.007	0.26	0.136	0.19	0.587	1.51	-0.084	0.32	-0.241	0.53	-0.450	1.06	-0.042	0.37			-0.012	0.56
NIST	0.005	0.59	0.148	0.56	0.599	1.60	-0.072	0.62	-0.229	0.75	-0.437	1.18	-0.029	0.65	0.012	0.56		
NMIJ	0.471	1.66	0.615	1.65	1.065	2.22	0.394	1.67	0.237	1.72	0.029	1.95	0.437	1.68	0.479	1.65	0.466	1.73
VNIIOFI	-0.227	1.62	-0.083	1.61	0.367	2.20	-0.304	1.63	-0.461	1.68	-0.669	1.92	-0.261	1.64	-0.219	1.61	-0.232	1.69
CSIR	1.781	5.41	1.924	5.40	2.375	5.61	1.704	5.41	1.547	5.42	1.338	5.50	1.747	5.41	1.788	5.40	1.776	5.43
BNM/INM	0.229	0.35	0.372	0.31	0.822	1.53	0.151	0.40	-0.005	0.58	-0.214	1.08	0.194	0.44	0.236	0.30	0.223	0.61
MSL	0.591	1.12	0.734	1.11	1.185	1.86	0.514	1.14	0.357	1.21	0.149	1.52	0.557	1.15	0.598	1.11	0.586	1.23
PTB	0.030	0.27	0.173	0.21	0.624	1.51	-0.047	0.33	-0.204	0.53	-0.412	1.06	-0.004	0.38	0.037	0.20	0.025	0.57
IEN	0.521	0.84	0.664	0.83	1.114	1.71	0.444	0.87	0.287	0.96	0.078	1.33	0.486	0.89	0.528	0.83	0.515	0.98
KRISS	0.727	0.29	0.870	0.23	1.321	1.51	0.650	0.34	0.493	0.54	0.285	1.06	0.693	0.39	0.734	0.22	0.722	0.57
BIPM	-0.094	0.33	0.049	0.29	0.500	1.52	-0.171	0.38	-0.328	0.57	-0.536	1.08	-0.128	0.43	-0.087	0.28	-0.099	0.60

	D_i / 10-2	U_i / 10-2
CSIRO	-0.084	0.211
NRC	-0.227	0.130
IFA	-0.678	1.500
NPL	-0.007	0.285
HUT	0.150	0.505
OMH	0.358	1.051
SMU	-0.050	0.354
NMi	-0.091	0.118
NIST	-0.079	0.541
NMIJ	0.387	1.641
VNIIOFI	-0.311	1.601
CSIR	1.697	5.400
BNM/INM	0.144	0.267
MSL	0.507	1.101
PTB	-0.054	0.135
IEN	0.437	0.812
KRISS	0.643	0.169
BIPM	-0.178	0.239

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.471	1.66	0.227	1.62	-1.781	5.41	-0.229	0.35	-0.591	1.12	-0.030	0.27	-0.521	0.84	-0.727	0.29	0.094	0.33
NRC	-0.615	1.65	0.083	1.61	-1.924	5.40	-0.372	0.31	-0.734	1.11	-0.173	0.21	-0.664	0.83	-0.870	0.23	-0.049	0.29
IFA	-1.065	2.22	-0.367	2.20	-2.375	5.61	-0.822	1.53	-1.185	1.86	-0.624	1.51	-1.114	1.71	-1.321	1.51	-0.500	1.52
NPL	-0.394	1.67	0.304	1.63	-1.704	5.41	-0.151	0.40	-0.514	1.14	0.047	0.33	-0.444	0.87	-0.650	0.34	0.171	0.38
HUT	-0.237	1.72	0.461	1.68	-1.547	5.42	0.005	0.58	-0.357	1.21	0.204	0.53	-0.287	0.96	-0.493	0.54	0.328	0.57
OMH	-0.029	1.95	0.669	1.92	-1.338	5.50	0.214	1.08	-0.149	1.52	0.412	1.06	-0.078	1.33	-0.285	1.06	0.536	1.08
SMU	-0.437	1.68	0.261	1.64	-1.747	5.41	-0.194	0.44	-0.557	1.15	0.004	0.38	-0.486	0.89	-0.693	0.39	0.128	0.43
NMi	-0.479	1.65	0.219	1.61	-1.788	5.40	-0.236	0.30	-0.598	1.11	-0.037	0.20	-0.528	0.83	-0.734	0.22	0.087	0.28
NIST	-0.466	1.73	0.232	1.69	-1.776	5.43	-0.223	0.61	-0.586	1.23	-0.025	0.57	-0.515	0.98	-0.722	0.57	0.099	0.60
NMIJ			0.698	2.29	-1.310	5.64	0.243	1.66	-0.120	1.98	0.441	1.65	-0.049	1.83	-0.256	1.65	0.565	1.66
VNIIOFI	-0.698	2.29			-2.008	5.63	-0.455	1.63	-0.818	1.94	-0.257	1.61	-0.747	1.80	-0.954	1.61	-0.133	1.62
CSIR	1.310	5.64	2.008	5.63			1.552	5.41	1.190	5.51	1.751	5.40	1.260	5.46	1.054	5.40	1.875	5.41
BNM/INM	-0.243	1.66	0.455	1.63	-1.552	5.41			-0.363	1.13	0.198	0.31	-0.292	0.86	-0.499	0.33	0.322	0.37
MSL	0.120	1.98	0.818	1.94	-1.190	5.51	0.363	1.13			0.561	1.11	0.070	1.37	-0.136	1.11	0.685	1.13
PTB	-0.441	1.65	0.257	1.61	-1.751	5.40	-0.198	0.31	-0.561	1.11			-0.491	0.83	-0.697	0.24	0.124	0.29
IEN	0.049	1.83	0.747	1.80	-1.260	5.46	0.292	0.86	-0.070	1.37	0.491	0.83			-0.206	0.83	0.615	0.85
KRISS	0.256	1.65	0.954	1.61	-1.054	5.40	0.499	0.33	0.136	1.11	0.697	0.24	0.206	0.83			0.821	0.31
BIPM	-0.565	1.66	0.133	1.62	-1.875	5.41	-0.322	0.37	-0.685	1.13	-0.124	0.29	-0.615	0.85	-0.821	0.31		

CCPR-K2.b Spectral responsivity λ = 400 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 450 nm

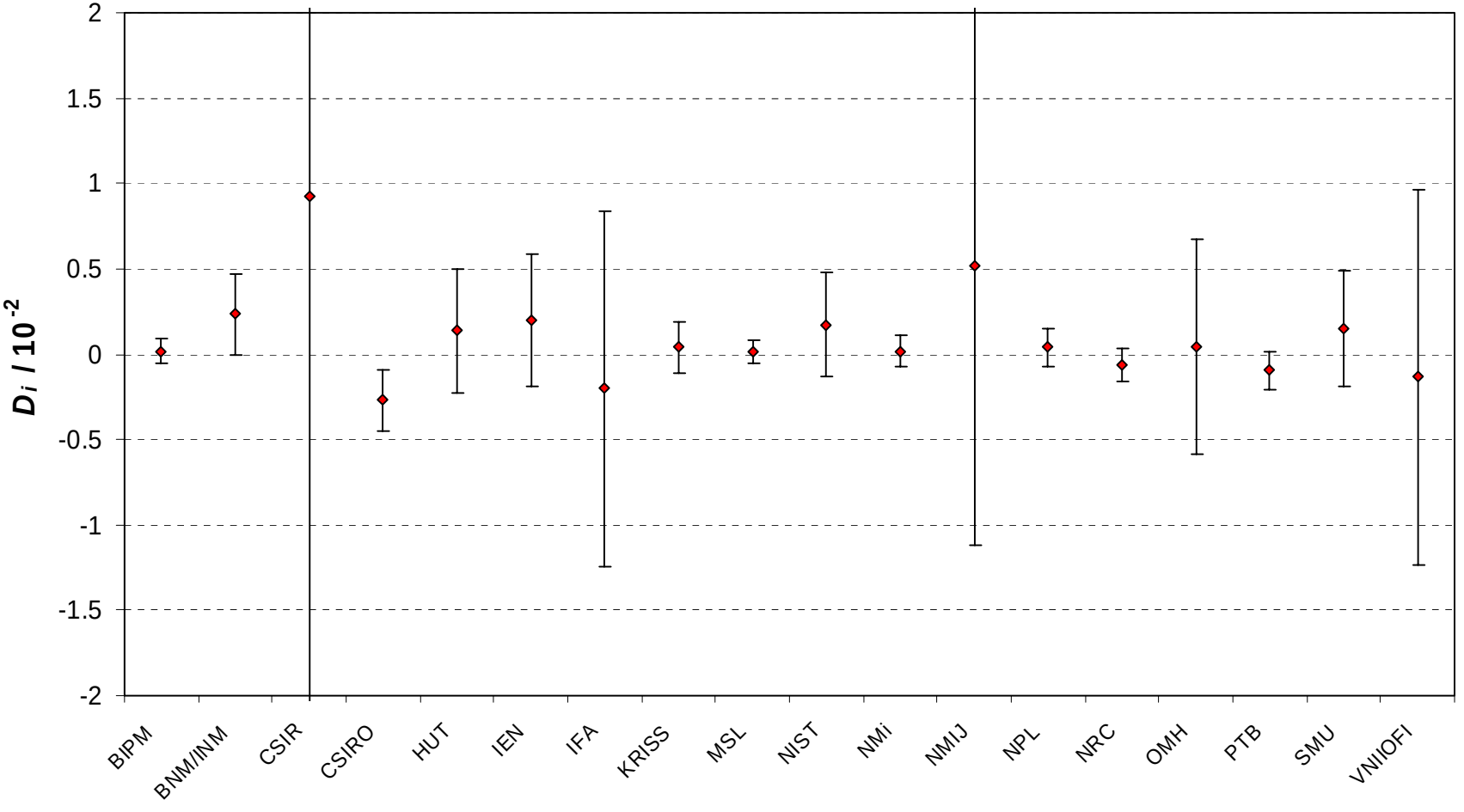
Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	-0.269	0.178			-0.206	0.21	-0.068	1.06	-0.310	0.22	-0.405	0.41	-0.311	0.66	-0.417	0.39	-0.287	0.21	-0.441	0.35
NRC	-0.063	0.095	0.206	0.21			0.138	1.05	-0.104	0.15	-0.199	0.38	-0.105	0.64	-0.211	0.36	-0.081	0.14	-0.235	0.32
IFA	-0.201	1.040	0.068	1.06	-0.138	1.05			-0.242	1.05	-0.337	1.10	-0.243	1.22	-0.349	1.10	-0.220	1.05	-0.373	1.08
NPL	0.042	0.111	0.310	0.22	0.104	0.15	0.242	1.05			-0.095	0.39	-0.001	0.64	-0.106	0.36	0.023	0.15	-0.131	0.33
HUT	0.137	0.366	0.405	0.41	0.199	0.38	0.337	1.10	0.095	0.39			0.094	0.73	-0.011	0.50	0.118	0.38	-0.036	0.48
OMH	0.042	0.633	0.311	0.66	0.105	0.64	0.243	1.22	0.001	0.64	-0.094	0.73			-0.106	0.72	0.023	0.64	-0.130	0.70
SMU	0.148	0.341	0.417	0.39	0.211	0.36	0.349	1.10	0.106	0.36	0.011	0.50	0.106	0.72			0.129	0.36	-0.024	0.46
NMi	0.019	0.089	0.287	0.21	0.081	0.14	0.220	1.05	-0.023	0.15	-0.118	0.38	-0.023	0.64	-0.129	0.36			-0.153	0.32
NIST	0.172	0.303	0.441	0.35	0.235	0.32	0.373	1.08	0.131	0.33	0.036	0.48	0.130	0.70	0.024	0.46	0.153	0.32		
NMIJ	0.519	1.640	0.787	1.65	0.581	1.64	0.720	1.94	0.477	1.64	0.382	1.68	0.477	1.76	0.371	1.68	0.500	1.64	0.347	1.67
VNIIOFI	-0.134	1.101	0.135	1.12	-0.071	1.11	0.067	1.52	-0.175	1.11	-0.270	1.16	-0.176	1.27	-0.282	1.15	-0.153	1.11	-0.306	1.14
CSIR	0.921	3.000	1.190	3.01	0.984	3.00	1.122	3.18	0.880	3.00	0.785	3.02	0.879	3.07	0.773	3.02	0.902	3.00	0.749	3.02
BNM/INM	0.233	0.237	0.502	0.30	0.296	0.26	0.434	1.07	0.192	0.27	0.097	0.44	0.191	0.68	0.086	0.42	0.215	0.26	0.061	0.39
MSL	0.014	0.068	0.282	0.20	0.076	0.13	0.215	1.04	-0.028	0.14	-0.123	0.37	-0.028	0.64	-0.134	0.35	-0.005	0.12	-0.158	0.31
PTB	-0.094	0.112	0.174	0.22	-0.032	0.15	0.106	1.05	-0.136	0.17	-0.231	0.39	-0.137	0.64	-0.242	0.36	-0.113	0.15	-0.267	0.33
IEN	0.197	0.387	0.466	0.43	0.260	0.40	0.398	1.11	0.156	0.41	0.061	0.54	0.155	0.74	0.049	0.52	0.178	0.40	0.025	0.49
KRISS	0.041	0.150	0.309	0.24	0.103	0.18	0.241	1.05	-0.001	0.19	-0.096	0.40	-0.002	0.65	-0.107	0.38	0.022	0.18	-0.131	0.34
BIPM	0.017	0.073	0.286	0.20	0.080	0.13	0.218	1.04	-0.024	0.14	-0.119	0.38	-0.025	0.64	-0.131	0.35	-0.002	0.13	-0.155	0.32

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	-0.269	0.178	-0.787	1.65	-0.135	1.12	-1.190	3.01	-0.502	0.30	-0.282	0.20	-0.174	0.22	-0.466	0.43	-0.309	0.24	-0.286	0.20
NRC	-0.063	0.095	-0.581	1.64	0.071	1.11	-0.984	3.00	-0.296	0.26	-0.076	0.13	0.032	0.15	-0.260	0.40	-0.103	0.18	-0.080	0.13
IFA	-0.201	1.040	-0.720	1.94	-0.067	1.52	-1.122	3.18	-0.434	1.07	-0.215	1.04	-0.106	1.05	-0.398	1.11	-0.241	1.05	-0.218	1.04
NPL	0.042	0.111	-0.477	1.64	0.175	1.11	-0.880	3.00	-0.192	0.27	0.028	0.14	0.136	0.17	-0.156	0.41	0.001	0.19	0.024	0.14
HUT	0.137	0.366	-0.382	1.68	0.270	1.16	-0.785	3.02	-0.097	0.44	0.123	0.37	0.231	0.39	-0.061	0.54	0.096	0.40	0.119	0.38
OMH	0.042	0.633	-0.477	1.76	0.176	1.27	-0.879	3.07	-0.191	0.68	0.028	0.64	0.137	0.64	-0.155	0.74	0.002	0.65	0.025	0.64
SMU	0.148	0.341	-0.371	1.68	0.282	1.15	-0.773	3.02	-0.086	0.42	0.134	0.35	0.242	0.36	-0.049	0.52	0.107	0.38	0.131	0.35
NMi	0.019	0.089	-0.500	1.64	0.153	1.11	-0.902	3.00	-0.215	0.26	0.005	0.12	0.113	0.15	-0.178	0.40	-0.022	0.18	0.002	0.13
NIST	0.172	0.303	-0.347	1.67	0.306	1.14	-0.749	3.02	-0.061	0.39	0.158	0.31	0.267	0.33	-0.025	0.49	0.131	0.34	0.155	0.32
NMIJ	0.519	1.640			0.653	1.98	-0.402	3.42	0.285	1.66	0.505	1.64	0.613	1.64	0.322	1.69	0.478	1.65	0.502	1.64
VNIIOFI	-0.134	1.101	-0.653	1.98			-1.055	3.20	-0.367	1.13	-0.148	1.10	-0.039	1.11	-0.331	1.17	-0.175	1.11	-0.151	1.10
CSIR	0.921	3.000	0.402	3.42	1.055	3.20			0.688	3.01	0.907	3.00	1.016	3.00	0.724	3.03	0.881	3.00	0.904	3.00
BNM/INM	0.233	0.237	-0.285	1.66	0.367	1.13	-0.688	3.01			0.220	0.25	0.328	0.27	0.036	0.46	0.193	0.29	0.216	0.25
MSL	0.014	0.068	-0.505	1.64	0.148	1.10	-0.907	3.00	-0.220	0.25			0.108	0.14	-0.183	0.40	-0.027	0.17	-0.003	0.11
PTB	-0.094	0.112	-0.613	1.64	0.039	1.11	-1.016	3.00	-0.328	0.27	-0.108	0.14			-0.292	0.41	-0.135	0.19	-0.112	0.14
IEN	0.197	0.387	-0.322	1.69	0.331	1.17	-0.724	3.03	-0.036	0.46	0.183	0.40	0.292	0.41			0.156	0.42	0.180	0.40
KRISS	0.041	0.150	-0.478	1.65	0.175	1.11	-0.881	3.00	-0.193	0.29	0.027	0.17	0.135	0.19	-0.156	0.42			0.023	0.17
BIPM	0.017	0.073	-0.502	1.64	0.151	1.10	-0.904	3.00	-0.216	0.25	0.003	0.11	0.112	0.14	-0.180	0.40	-0.023	0.17		

CCPR-K2.b Spectral responsivity λ = 450 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 500 nm

Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.175	0.130
NRC	-0.019	0.081
IFA	-0.345	0.720
NPL	0.015	0.111
HUT	0.098	0.296
OMH	-0.028	0.622
SMU	0.093	0.342
NMi	0.024	0.088
NIST	0.194	0.262
NMIJ	0.375	1.640
VNIIOFI	-0.023	1.001
CSIR	0.884	1.900
BNM/INM	0.165	0.234
MSL	0.072	0.062
PTB	-0.049	0.050
IEN	0.058	0.382
KRISS	-0.099	0.145
BIPM	0.005	0.073

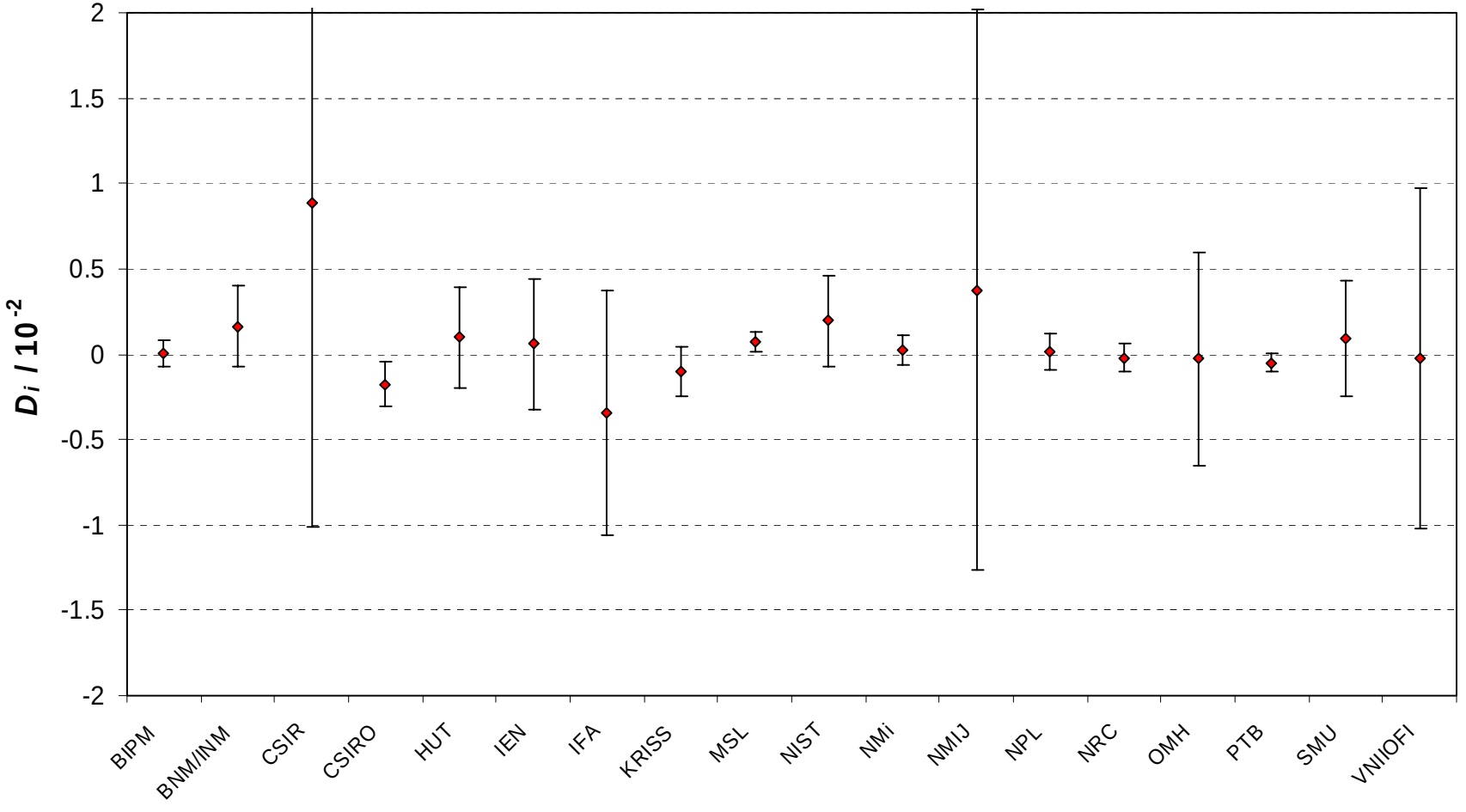
Lab *i*	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.156	0.16	0.170	0.73	-0.190	0.18	-0.273	0.33	-0.147	0.64	-0.268	0.37	-0.199	0.16	-0.369	0.30
NRC	0.156	0.16			0.326	0.73	-0.035	0.14	-0.117	0.31	0.009	0.63	-0.112	0.35	-0.043	0.13	-0.213	0.28
IFA	-0.170	0.73	-0.326	0.73			-0.360	0.73	-0.443	0.78	-0.317	0.95	-0.438	0.80	-0.369	0.73	-0.539	0.77
NPL	0.190	0.18	0.035	0.14	0.360	0.73			-0.083	0.32	0.044	0.63	-0.078	0.36	-0.009	0.15	-0.179	0.29
HUT	0.273	0.33	0.117	0.31	0.443	0.78	0.083	0.32			0.126	0.69	0.005	0.45	0.074	0.31	-0.096	0.40
OMH	0.147	0.64	-0.009	0.63	0.317	0.95	-0.044	0.63	-0.126	0.69			-0.121	0.71	-0.052	0.63	-0.222	0.68
SMU	0.268	0.37	0.112	0.35	0.438	0.80	0.078	0.36	-0.005	0.45	0.121	0.71			0.069	0.36	-0.101	0.43
NMi	0.199	0.16	0.043	0.13	0.369	0.73	0.009	0.15	-0.074	0.31	0.052	0.63	-0.069	0.36			-0.170	0.28
NIST	0.369	0.30	0.213	0.28	0.539	0.77	0.179	0.29	0.096	0.40	0.222	0.68	0.101	0.43	0.170	0.28		
NMIJ	0.550	1.65	0.395	1.64	0.720	1.79	0.360	1.64	0.278	1.67	0.404	1.76	0.282	1.68	0.351	1.64	0.181	1.66
VNIIOFI	0.153	1.01	-0.003	1.01	0.323	1.23	-0.038	1.01	-0.120	1.04	0.006	1.18	-0.116	1.06	-0.046	1.01	-0.216	1.04
CSIR	1.059	1.91	0.904	1.90	1.229	2.03	0.869	1.90	0.787	1.92	0.913	2.00	0.791	1.93	0.860	1.90	0.690	1.92
BNM/INM	0.340	0.27	0.184	0.25	0.510	0.76	0.149	0.26	0.067	0.38	0.193	0.67	0.072	0.42	0.141	0.25	-0.029	0.35
MSL	0.247	0.15	0.092	0.11	0.417	0.72	0.057	0.13	-0.025	0.31	0.101	0.63	-0.021	0.35	0.048	0.12	-0.121	0.27
PTB	0.127	0.14	-0.029	0.10	0.296	0.72	-0.064	0.13	-0.146	0.30	-0.020	0.63	-0.142	0.35	-0.072	0.11	-0.242	0.27
IEN	0.233	0.41	0.078	0.39	0.403	0.82	0.043	0.40	-0.039	0.49	0.087	0.73	-0.035	0.51	0.034	0.39	-0.136	0.47
KRISS	0.076	0.20	-0.079	0.17	0.246	0.74	-0.114	0.19	-0.197	0.33	-0.070	0.64	-0.192	0.37	-0.123	0.18	-0.293	0.30
BIPM	0.180	0.16	0.024	0.12	0.350	0.73	-0.010	0.14	-0.093	0.31	0.033	0.63	-0.088	0.35	-0.019	0.12	-0.189	0.28

	D_i / 10-2	U_i / 10-2
CSIRO	-0.175	0.130
NRC	-0.019	0.081
IFA	-0.345	0.720
NPL	0.015	0.111
HUT	0.098	0.296
OMH	-0.028	0.622
SMU	0.093	0.342
NMi	0.024	0.088
NIST	0.194	0.262
NMIJ	0.375	1.640
VNIIOFI	-0.023	1.001
CSIR	0.884	1.900
BNM/INM	0.165	0.234
MSL	0.072	0.062
PTB	-0.049	0.050
IEN	0.058	0.382
KRISS	-0.099	0.145
BIPM	0.005	0.073

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.550	1.65	-0.153	1.01	-1.059	1.91	-0.340	0.27	-0.247	0.15	-0.127	0.14	-0.233	0.41	-0.076	0.20	-0.180	0.16
NRC	-0.395	1.64	0.003	1.01	-0.904	1.90	-0.184	0.25	-0.092	0.11	0.029	0.10	-0.078	0.39	0.079	0.17	-0.024	0.12
IFA	-0.720	1.79	-0.323	1.23	-1.229	2.03	-0.510	0.76	-0.417	0.72	-0.296	0.72	-0.403	0.82	-0.246	0.74	-0.350	0.73
NPL	-0.360	1.64	0.038	1.01	-0.869	1.90	-0.149	0.26	-0.057	0.13	0.064	0.13	-0.043	0.40	0.114	0.19	0.010	0.14
HUT	-0.278	1.67	0.120	1.04	-0.787	1.92	-0.067	0.38	0.025	0.31	0.146	0.30	0.039	0.49	0.197	0.33	0.093	0.31
OMH	-0.404	1.76	-0.006	1.18	-0.913	2.00	-0.193	0.67	-0.101	0.63	0.020	0.63	-0.087	0.73	0.070	0.64	-0.033	0.63
SMU	-0.282	1.68	0.116	1.06	-0.791	1.93	-0.072	0.42	0.021	0.35	0.142	0.35	0.035	0.51	0.192	0.37	0.088	0.35
NMi	-0.351	1.64	0.046	1.01	-0.860	1.90	-0.141	0.25	-0.048	0.12	0.072	0.11	-0.034	0.39	0.123	0.18	0.019	0.12
NIST	-0.181	1.66	0.216	1.04	-0.690	1.92	0.029	0.35	0.121	0.27	0.242	0.27	0.136	0.47	0.293	0.30	0.189	0.28
NMIJ			0.398	1.92	-0.509	2.51	0.211	1.66	0.303	1.64	0.424	1.64	0.317	1.68	0.474	1.65	0.370	1.64
VNIIOFI	-0.398	1.92			-0.907	2.15	-0.187	1.03	-0.095	1.00	0.026	1.00	-0.081	1.07	0.076	1.01	-0.028	1.00
CSIR	0.509	2.51	0.907	2.15			0.720	1.92	0.812	1.90	0.933	1.90	0.826	1.94	0.983	1.91	0.879	1.90
BNM/INM	-0.211	1.66	0.187	1.03	-0.720	1.92			0.092	0.25	0.213	0.24	0.106	0.45	0.263	0.28	0.159	0.25
MSL	-0.303	1.64	0.095	1.00	-0.812	1.90	-0.092	0.25			0.121	0.09	0.014	0.39	0.171	0.16	0.067	0.11
PTB	-0.424	1.64	-0.026	1.00	-0.933	1.90	-0.213	0.24	-0.121	0.09			-0.107	0.39	0.050	0.16	-0.054	0.10
IEN	-0.317	1.68	0.081	1.07	-0.826	1.94	-0.106	0.45	-0.014	0.39	0.107	0.39			0.157	0.41	0.053	0.39
KRISS	-0.474	1.65	-0.076	1.01	-0.983	1.91	-0.263	0.28	-0.171	0.16	-0.050	0.16	-0.157	0.41			-0.104	0.17
BIPM	-0.370	1.64	0.028	1.00	-0.879	1.90	-0.159	0.25	-0.067	0.11	0.054	0.10	-0.053	0.39	0.104	0.17		

CCPR-K2.b Spectral responsivity λ = 500 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 550 nm

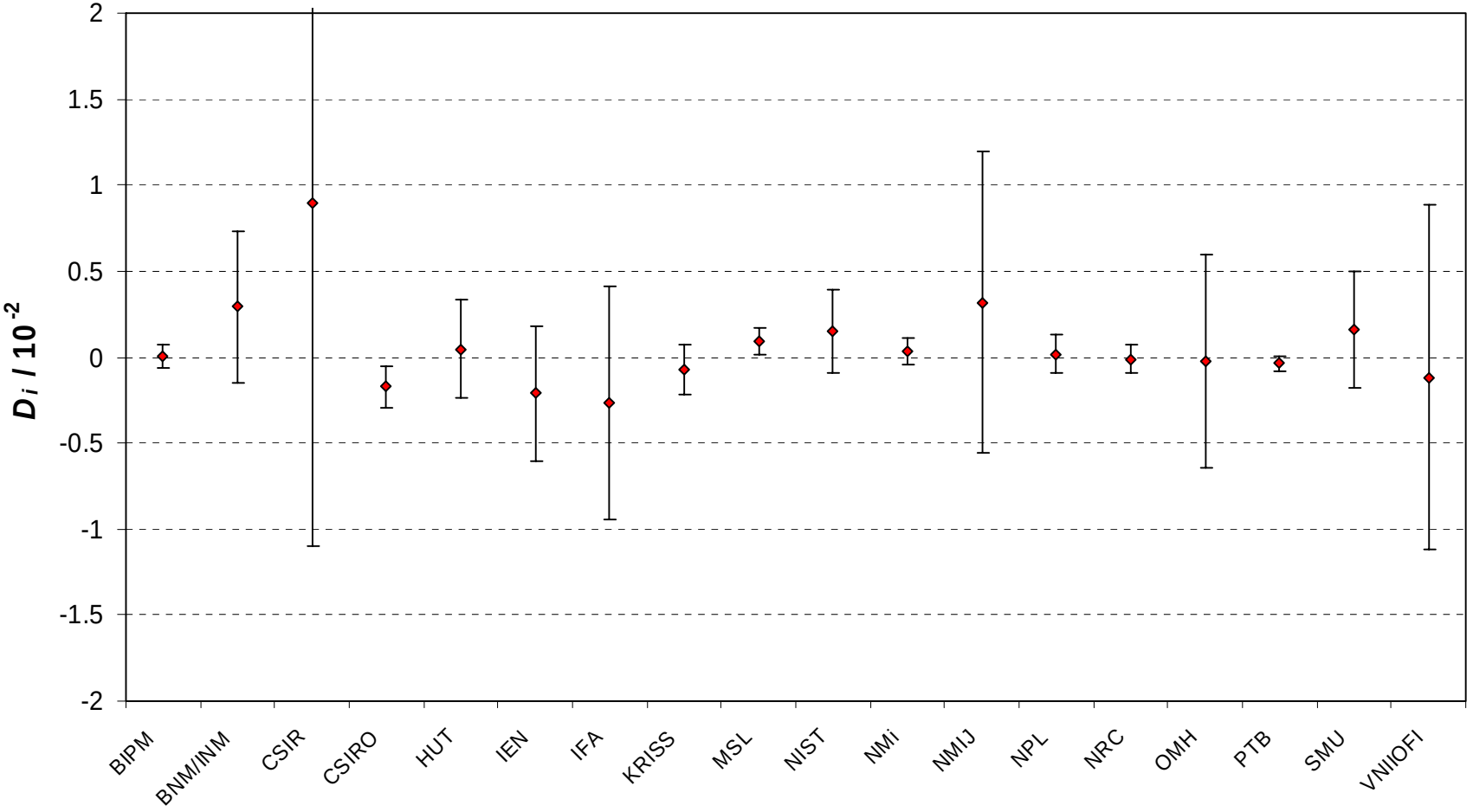
Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	-0.173	0.118			-0.163	0.15	0.094	0.69	-0.190	0.17	-0.220	0.31	-0.150	0.63	-0.331	0.36	-0.205	0.15	-0.322	0.27
NRC	-0.010	0.078	0.163	0.15			0.256	0.69	-0.027	0.14	-0.057	0.30	0.012	0.63	-0.168	0.35	-0.043	0.12	-0.159	0.26
IFA	-0.266	0.680	-0.094	0.69	-0.256	0.69			-0.283	0.69	-0.313	0.74	-0.244	0.92	-0.425	0.76	-0.299	0.69	-0.415	0.72
NPL	0.017	0.110	0.190	0.17	0.027	0.14	0.283	0.69			-0.030	0.31	0.039	0.63	-0.142	0.36	-0.016	0.14	-0.132	0.27
HUT	0.047	0.285	0.220	0.31	0.057	0.30	0.313	0.74	0.030	0.31			0.069	0.69	-0.111	0.45	0.014	0.30	-0.102	0.38
OMH	-0.023	0.622	0.150	0.63	-0.012	0.63	0.244	0.92	-0.039	0.63	-0.069	0.69			-0.181	0.71	-0.055	0.63	-0.171	0.67
SMU	0.158	0.341	0.331	0.36	0.168	0.35	0.425	0.76	0.142	0.36	0.111	0.45	0.181	0.71			0.126	0.35	0.009	0.42
NMi	0.033	0.081	0.205	0.15	0.043	0.12	0.299	0.69	0.016	0.14	-0.014	0.30	0.055	0.63	-0.126	0.35			-0.116	0.26
NIST	0.149	0.242	0.322	0.27	0.159	0.26	0.415	0.72	0.132	0.27	0.102	0.38	0.171	0.67	-0.009	0.42	0.116	0.26		
NMIJ	0.320	0.881	0.492	0.89	0.330	0.89	0.586	1.11	0.303	0.89	0.273	0.93	0.342	1.08	0.161	0.95	0.287	0.89	0.171	0.91
VNIIOFI	-0.118	1.001	0.055	1.01	-0.108	1.00	0.148	1.21	-0.135	1.01	-0.165	1.04	-0.096	1.18	-0.276	1.06	-0.151	1.00	-0.267	1.03
CSIR	0.900	2.000	1.072	2.00	0.910	2.00	1.166	2.11	0.883	2.00	0.853	2.02	0.922	2.10	0.741	2.03	0.867	2.00	0.751	2.02
BNM/INM	0.295	0.440	0.468	0.46	0.305	0.45	0.561	0.81	0.278	0.46	0.248	0.53	0.317	0.76	0.137	0.56	0.262	0.45	0.146	0.50
MSL	0.092	0.077	0.265	0.15	0.102	0.12	0.358	0.69	0.075	0.14	0.045	0.30	0.114	0.63	-0.067	0.35	0.059	0.12	-0.057	0.26
PTB	-0.037	0.046	0.136	0.13	-0.027	0.10	0.229	0.68	-0.054	0.12	-0.084	0.29	-0.015	0.62	-0.195	0.35	-0.070	0.10	-0.186	0.25
IEN	-0.211	0.392	-0.038	0.41	-0.201	0.40	0.055	0.79	-0.228	0.41	-0.258	0.49	-0.189	0.74	-0.369	0.52	-0.244	0.40	-0.360	0.46
KRISS	-0.073	0.145	0.100	0.19	-0.063	0.17	0.193	0.70	-0.090	0.19	-0.120	0.32	-0.051	0.64	-0.232	0.37	-0.106	0.17	-0.222	0.29
BIPM	0.005	0.072	0.178	0.15	0.015	0.12	0.271	0.69	-0.012	0.14	-0.042	0.30	0.027	0.63	-0.154	0.35	-0.028	0.12	-0.144	0.26

Lab *i*	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	-0.173	0.118	-0.492	0.89	-0.055	1.01	-1.072	2.00	-0.468	0.46	-0.265	0.15	-0.136	0.13	0.038	0.41	-0.100	0.19	-0.178	0.15
NRC	-0.010	0.078	-0.330	0.89	0.108	1.00	-0.910	2.00	-0.305	0.45	-0.102	0.12	0.027	0.10	0.201	0.40	0.063	0.17	-0.015	0.12
IFA	-0.266	0.680	-0.586	1.11	-0.148	1.21	-1.166	2.11	-0.561	0.81	-0.358	0.69	-0.229	0.68	-0.055	0.79	-0.193	0.70	-0.271	0.69
NPL	0.017	0.110	-0.303	0.89	0.135	1.01	-0.883	2.00	-0.278	0.46	-0.075	0.14	0.054	0.12	0.228	0.41	0.090	0.19	0.012	0.14
HUT	0.047	0.285	-0.273	0.93	0.165	1.04	-0.853	2.02	-0.248	0.53	-0.045	0.30	0.084	0.29	0.258	0.49	0.120	0.32	0.042	0.30
OMH	-0.023	0.622	-0.342	1.08	0.096	1.18	-0.922	2.10	-0.317	0.76	-0.114	0.63	0.015	0.62	0.189	0.74	0.051	0.64	-0.027	0.63
SMU	0.158	0.341	-0.161	0.95	0.276	1.06	-0.741	2.03	-0.137	0.56	0.067	0.35	0.195	0.35	0.369	0.52	0.232	0.37	0.154	0.35
NMi	0.033	0.081	-0.287	0.89	0.151	1.00	-0.867	2.00	-0.262	0.45	-0.059	0.12	0.070	0.10	0.244	0.40	0.106	0.17	0.028	0.12
NIST	0.149	0.242	-0.171	0.91	0.267	1.03	-0.751	2.02	-0.146	0.50	0.057	0.26	0.186	0.25	0.360	0.46	0.222	0.29	0.144	0.26
NMIJ	0.320	0.881			0.438	1.33	-0.580	2.19	0.025	0.99	0.228	0.89	0.357	0.88	0.531	0.97	0.393	0.89	0.315	0.88
VNIIOFI	-0.118	1.001	-0.438	1.33			-1.018	2.24	-0.413	1.09	-0.210	1.00	-0.081	1.00	0.093	1.08	-0.045	1.01	-0.123	1.00
CSIR	0.900	2.000	0.580	2.19	1.018	2.24			0.605	2.05	0.808	2.00	0.937	2.00	1.111	2.04	0.973	2.01	0.895	2.00
BNM/INM	0.295	0.440	-0.025	0.99	0.413	1.09	-0.605	2.05			0.203	0.45	0.332	0.44	0.506	0.59	0.368	0.47	0.290	0.45
MSL	0.092	0.077	-0.228	0.89	0.210	1.00	-0.808	2.00	-0.203	0.45			0.129	0.09	0.303	0.40	0.165	0.17	0.087	0.12
PTB	-0.037	0.046	-0.357	0.88	0.081	1.00	-0.937	2.00	-0.332	0.44	-0.129	0.09			0.174	0.40	0.036	0.15	-0.042	0.09
IEN	-0.211	0.392	-0.531	0.97	-0.093	1.08	-1.111	2.04	-0.506	0.59	-0.303	0.40	-0.174	0.40			-0.138	0.42	-0.216	0.40
KRISS	-0.073	0.145	-0.393	0.89	0.045	1.01	-0.973	2.01	-0.368	0.47	-0.165	0.17	-0.036	0.15	0.138	0.42			-0.078	0.17
BIPM	0.005	0.072	-0.315	0.88	0.123	1.00	-0.895	2.00	-0.290	0.45	-0.087	0.12	0.042	0.09	0.216	0.40	0.078	0.17		

CCPR-K2.b Spectral responsivity λ = 550 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 600 nm

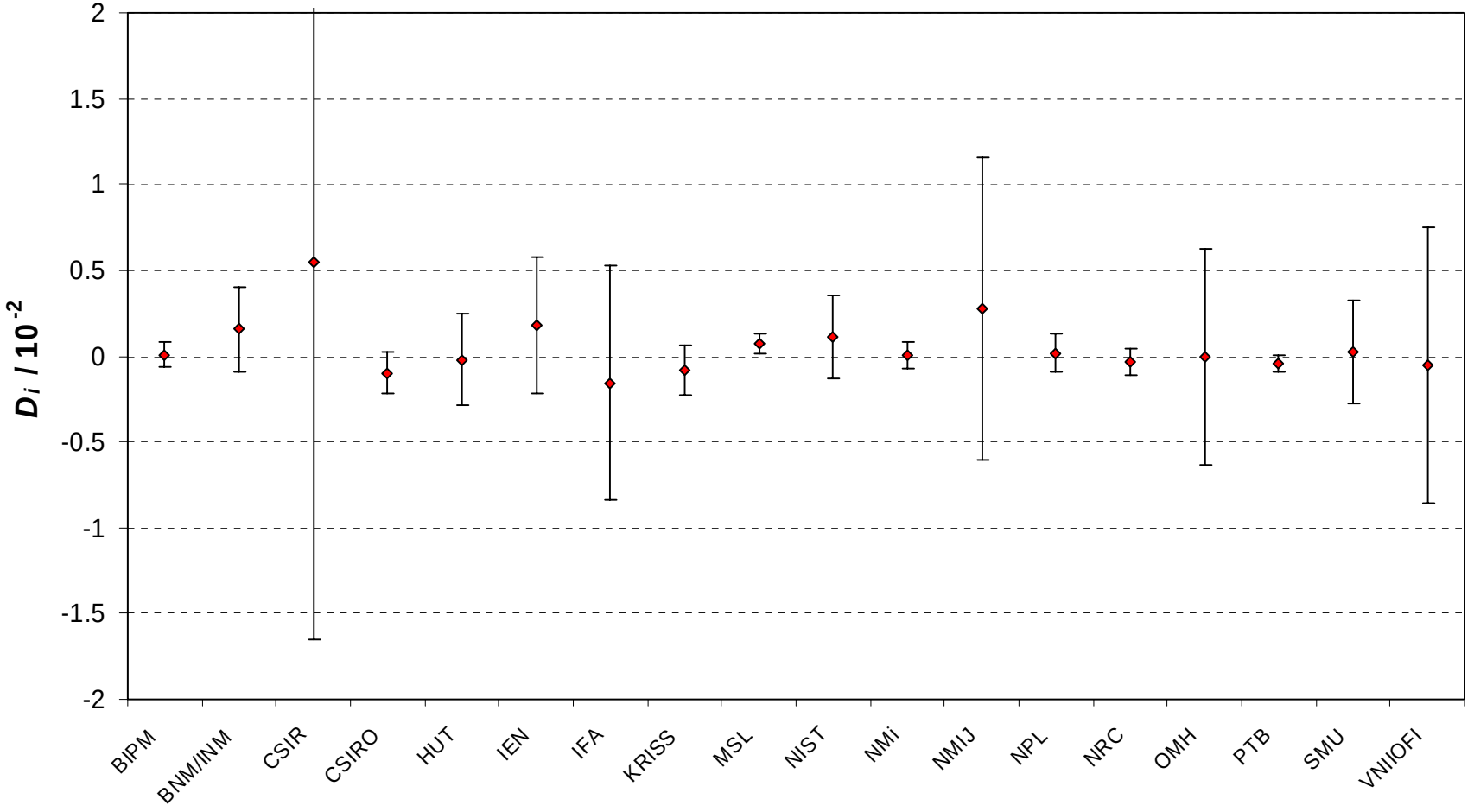
Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	-0.097	0.120			-0.063	0.15	0.059	0.69	-0.114	0.17	-0.077	0.30	-0.092	0.64	-0.124	0.33	-0.102	0.15	-0.204	0.27
NRC	-0.034	0.076	0.063	0.15			0.122	0.69	-0.051	0.14	-0.014	0.28	-0.029	0.63	-0.061	0.31	-0.039	0.12	-0.141	0.26
IFA	-0.156	0.680	-0.059	0.69	-0.122	0.69			-0.173	0.69	-0.136	0.73	-0.151	0.93	-0.183	0.75	-0.161	0.69	-0.263	0.72
NPL	0.017	0.110	0.114	0.17	0.051	0.14	0.173	0.69			0.036	0.30	0.022	0.64	-0.010	0.32	0.011	0.14	-0.090	0.27
HUT	-0.020	0.271	0.077	0.30	0.014	0.28	0.136	0.73	-0.036	0.30			-0.015	0.69	-0.047	0.41	-0.025	0.28	-0.127	0.37
OMH	-0.005	0.629	0.092	0.64	0.029	0.63	0.151	0.93	-0.022	0.64	0.015	0.69			-0.032	0.70	-0.010	0.63	-0.112	0.68
SMU	0.027	0.302	0.124	0.33	0.061	0.31	0.183	0.75	0.010	0.32	0.047	0.41	0.032	0.70			0.022	0.31	-0.080	0.39
NMi	0.005	0.077	0.102	0.15	0.039	0.12	0.161	0.69	-0.011	0.14	0.025	0.28	0.010	0.63	-0.022	0.31			-0.102	0.26
NIST	0.107	0.242	0.204	0.27	0.141	0.26	0.263	0.72	0.090	0.27	0.127	0.37	0.112	0.68	0.080	0.39	0.102	0.26		
NMIJ	0.273	0.881	0.370	0.89	0.307	0.89	0.429	1.11	0.257	0.89	0.293	0.92	0.278	1.08	0.246	0.93	0.268	0.89	0.166	0.91
VNIIOFI	-0.053	0.801	0.044	0.81	-0.019	0.81	0.103	1.05	-0.070	0.81	-0.033	0.85	-0.048	1.02	-0.080	0.86	-0.058	0.81	-0.160	0.84
CSIR	0.552	2.200	0.649	2.20	0.586	2.20	0.708	2.30	0.535	2.20	0.571	2.22	0.557	2.29	0.525	2.22	0.546	2.20	0.445	2.21
BNM/INM	0.157	0.245	0.254	0.28	0.191	0.26	0.313	0.72	0.140	0.27	0.177	0.37	0.162	0.68	0.130	0.39	0.152	0.26	0.050	0.35
MSL	0.075	0.059	0.172	0.14	0.109	0.11	0.231	0.68	0.058	0.13	0.095	0.28	0.080	0.63	0.048	0.31	0.070	0.11	-0.032	0.25
PTB	-0.043	0.045	0.054	0.13	-0.009	0.09	0.113	0.68	-0.060	0.12	-0.024	0.28	-0.038	0.63	-0.070	0.31	-0.049	0.10	-0.151	0.25
IEN	0.177	0.397	0.274	0.42	0.211	0.41	0.333	0.79	0.160	0.41	0.196	0.48	0.182	0.74	0.150	0.50	0.171	0.41	0.070	0.47
KRISS	-0.085	0.145	0.013	0.19	-0.051	0.17	0.072	0.70	-0.101	0.19	-0.065	0.31	-0.079	0.65	-0.112	0.34	-0.090	0.17	-0.192	0.29
BIPM	0.008	0.073	0.105	0.15	0.042	0.11	0.164	0.69	-0.009	0.14	0.027	0.28	0.013	0.63	-0.019	0.31	0.002	0.11	-0.099	0.26

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	-0.097	0.120	-0.370	0.89	-0.044	0.81	-0.649	2.20	-0.254	0.28	-0.172	0.14	-0.054	0.13	-0.274	0.42	-0.013	0.19	-0.105	0.15
NRC	-0.034	0.076	-0.307	0.89	0.019	0.81	-0.586	2.20	-0.191	0.26	-0.109	0.11	0.009	0.09	-0.211	0.41	0.051	0.17	-0.042	0.11
IFA	-0.156	0.680	-0.429	1.11	-0.103	1.05	-0.708	2.30	-0.313	0.72	-0.231	0.68	-0.113	0.68	-0.333	0.79	-0.072	0.70	-0.164	0.69
NPL	0.017	0.110	-0.257	0.89	0.070	0.81	-0.535	2.20	-0.140	0.27	-0.058	0.13	0.060	0.12	-0.160	0.41	0.101	0.19	0.009	0.14
HUT	-0.020	0.271	-0.293	0.92	0.033	0.85	-0.571	2.22	-0.177	0.37	-0.095	0.28	0.024	0.28	-0.196	0.48	0.065	0.31	-0.027	0.28
OMH	-0.005	0.629	-0.278	1.08	0.048	1.02	-0.557	2.29	-0.162	0.68	-0.080	0.63	0.038	0.63	-0.182	0.74	0.079	0.65	-0.013	0.63
SMU	0.027	0.302	-0.246	0.93	0.080	0.86	-0.525	2.22	-0.130	0.39	-0.048	0.31	0.070	0.31	-0.150	0.50	0.112	0.34	0.019	0.31
NMi	0.005	0.077	-0.268	0.89	0.058	0.81	-0.546	2.20	-0.152	0.26	-0.070	0.11	0.049	0.10	-0.171	0.41	0.090	0.17	-0.002	0.11
NIST	0.107	0.242	-0.166	0.91	0.160	0.84	-0.445	2.21	-0.050	0.35	0.032	0.25	0.151	0.25	-0.070	0.47	0.192	0.29	0.099	0.26
NMIJ	0.273	0.881			0.326	1.19	-0.278	2.37	0.116	0.92	0.198	0.88	0.317	0.88	0.097	0.97	0.358	0.89	0.266	0.88
VNIIOFI	-0.053	0.801	-0.326	1.19			-0.605	2.34	-0.210	0.84	-0.128	0.80	-0.009	0.80	-0.230	0.89	0.032	0.82	-0.061	0.81
CSIR	0.552	2.200	0.278	2.37	0.605	2.34			0.395	2.21	0.477	2.20	0.595	2.20	0.375	2.24	0.636	2.21	0.544	2.20
BNM/INM	0.157	0.245	-0.116	0.92	0.210	0.84	-0.395	2.21			0.082	0.26	0.201	0.25	-0.020	0.47	0.242	0.29	0.150	0.26
MSL	0.075	0.059	-0.198	0.88	0.128	0.80	-0.477	2.20	-0.082	0.26			0.118	0.08	-0.102	0.40	0.159	0.16	0.067	0.10
PTB	-0.043	0.045	-0.317	0.88	0.009	0.80	-0.595	2.20	-0.201	0.25	-0.118	0.08			-0.220	0.40	0.041	0.16	-0.051	0.09
IEN	0.177	0.397	-0.097	0.97	0.230	0.89	-0.375	2.24	0.020	0.47	0.102	0.40	0.220	0.40			0.261	0.42	0.169	0.41
KRISS	-0.085	0.145	-0.358	0.89	-0.032	0.82	-0.636	2.21	-0.242	0.29	-0.159	0.16	-0.041	0.16	-0.261	0.42			-0.092	0.17
BIPM	0.008	0.073	-0.266	0.88	0.061	0.81	-0.544	2.20	-0.150	0.26	-0.067	0.10	0.051	0.09	-0.169	0.41	0.092	0.17		

CCPR-K2.b Spectral responsivity λ = 600 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 650 nm

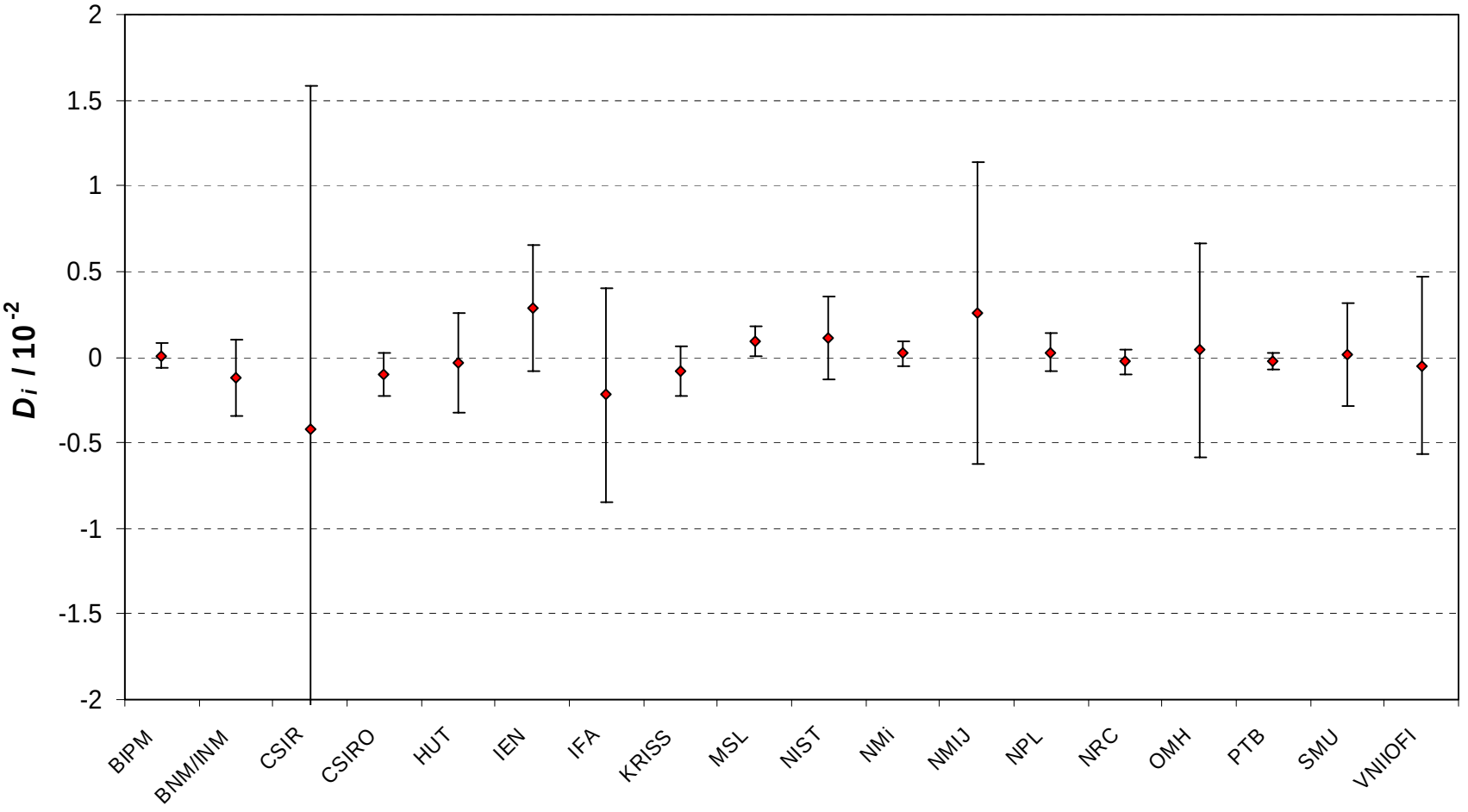
Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	-0.101	0.122			-0.076	0.15	0.121	0.63	-0.128	0.17	-0.068	0.32	-0.142	0.64	-0.116	0.33	-0.125	0.15	-0.213	0.27
NRC	-0.025	0.073	0.076	0.15			0.198	0.63	-0.052	0.14	0.008	0.30	-0.066	0.63	-0.040	0.31	-0.049	0.11	-0.137	0.26
IFA	-0.223	0.620	-0.121	0.63	-0.198	0.63			-0.249	0.63	-0.189	0.69	-0.264	0.88	-0.238	0.69	-0.246	0.63	-0.334	0.67
NPL	0.026	0.109	0.128	0.17	0.052	0.14	0.249	0.63			0.060	0.31	-0.015	0.64	0.011	0.32	0.003	0.14	-0.085	0.27
HUT	-0.034	0.290	0.068	0.32	-0.008	0.30	0.189	0.69	-0.060	0.31			-0.075	0.69	-0.049	0.42	-0.057	0.30	-0.145	0.38
OMH	0.041	0.627	0.142	0.64	0.066	0.63	0.264	0.88	0.015	0.64	0.075	0.69			0.026	0.70	0.017	0.63	-0.070	0.67
SMU	0.015	0.302	0.116	0.33	0.040	0.31	0.238	0.69	-0.011	0.32	0.049	0.42	-0.026	0.70			-0.009	0.31	-0.096	0.39
NMi	0.024	0.073	0.125	0.15	0.049	0.11	0.246	0.63	-0.003	0.14	0.057	0.30	-0.017	0.63	0.009	0.31			-0.088	0.26
NIST	0.112	0.241	0.213	0.27	0.137	0.26	0.334	0.67	0.085	0.27	0.145	0.38	0.070	0.67	0.096	0.39	0.088	0.26		
NMIJ	0.254	0.881	0.355	0.89	0.279	0.88	0.476	1.08	0.227	0.89	0.287	0.93	0.213	1.08	0.239	0.93	0.230	0.88	0.142	0.91
VNIIOFI	-0.050	0.516	0.051	0.53	-0.025	0.52	0.173	0.81	-0.076	0.53	-0.016	0.59	-0.091	0.81	-0.065	0.60	-0.074	0.52	-0.161	0.57
CSIR	-0.421	2.000	-0.319	2.00	-0.396	2.00	-0.198	2.09	-0.447	2.00	-0.387	2.02	-0.462	2.10	-0.436	2.02	-0.444	2.00	-0.532	2.02
BNM/INM	-0.118	0.223	-0.017	0.26	-0.093	0.24	0.105	0.66	-0.145	0.25	-0.085	0.37	-0.159	0.67	-0.133	0.38	-0.142	0.24	-0.230	0.33
MSL	0.092	0.085	0.193	0.16	0.117	0.12	0.315	0.63	0.066	0.15	0.125	0.31	0.051	0.63	0.077	0.32	0.068	0.12	-0.020	0.26
PTB	-0.024	0.044	0.078	0.13	0.002	0.09	0.199	0.62	-0.050	0.12	0.010	0.30	-0.065	0.63	-0.039	0.31	-0.047	0.09	-0.135	0.25
IEN	0.286	0.372	0.388	0.39	0.311	0.38	0.509	0.72	0.260	0.39	0.320	0.47	0.245	0.73	0.271	0.48	0.263	0.38	0.175	0.45
KRISS	-0.084	0.145	0.017	0.19	-0.059	0.17	0.138	0.64	-0.111	0.19	-0.051	0.33	-0.125	0.64	-0.099	0.34	-0.108	0.17	-0.196	0.28
BIPM	0.009	0.073	0.111	0.15	0.034	0.11	0.232	0.63	-0.017	0.14	0.043	0.30	-0.032	0.63	-0.006	0.31	-0.014	0.11	-0.102	0.26

Lab *i*	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	-0.101	0.122	-0.355	0.89	-0.051	0.53	0.319	2.00	0.017	0.26	-0.193	0.16	-0.078	0.13	-0.388	0.39	-0.017	0.19	-0.111	0.15
NRC	-0.025	0.073	-0.279	0.88	0.025	0.52	0.396	2.00	0.093	0.24	-0.117	0.12	-0.002	0.09	-0.311	0.38	0.059	0.17	-0.034	0.11
IFA	-0.223	0.620	-0.476	1.08	-0.173	0.81	0.198	2.09	-0.105	0.66	-0.315	0.63	-0.199	0.62	-0.509	0.72	-0.138	0.64	-0.232	0.63
NPL	0.026	0.109	-0.227	0.89	0.076	0.53	0.447	2.00	0.145	0.25	-0.066	0.15	0.050	0.12	-0.260	0.39	0.111	0.19	0.017	0.14
HUT	-0.034	0.290	-0.287	0.93	0.016	0.59	0.387	2.02	0.085	0.37	-0.125	0.31	-0.010	0.30	-0.320	0.47	0.051	0.33	-0.043	0.30
OMH	0.041	0.627	-0.213	1.08	0.091	0.81	0.462	2.10	0.159	0.67	-0.051	0.63	0.065	0.63	-0.245	0.73	0.125	0.64	0.032	0.63
SMU	0.015	0.302	-0.239	0.93	0.065	0.60	0.436	2.02	0.133	0.38	-0.077	0.32	0.039	0.31	-0.271	0.48	0.099	0.34	0.006	0.31
NMi	0.024	0.073	-0.230	0.88	0.074	0.52	0.444	2.00	0.142	0.24	-0.068	0.12	0.047	0.09	-0.263	0.38	0.108	0.17	0.014	0.11
NIST	0.112	0.241	-0.142	0.91	0.161	0.57	0.532	2.02	0.230	0.33	0.020	0.26	0.135	0.25	-0.175	0.45	0.196	0.28	0.102	0.26
NMIJ	0.254	0.881			0.304	1.02	0.675	2.19	0.372	0.91	0.162	0.89	0.277	0.88	-0.033	0.96	0.338	0.89	0.245	0.88
VNIIOFI	-0.050	0.516	-0.304	1.02			0.371	2.07	0.068	0.56	-0.142	0.53	-0.026	0.52	-0.336	0.64	0.034	0.54	-0.059	0.52
CSIR	-0.421	2.000	-0.675	2.19	-0.371	2.07			-0.303	2.01	-0.513	2.00	-0.397	2.00	-0.707	2.04	-0.336	2.01	-0.430	2.00
BNM/INM	-0.118	0.223	-0.372	0.91	-0.068	0.56	0.303	2.01			-0.210	0.24	-0.094	0.23	-0.404	0.44	-0.034	0.27	-0.127	0.24
MSL	0.092	0.085	-0.162	0.89	0.142	0.53	0.513	2.00	0.210	0.24			0.116	0.10	-0.194	0.38	0.176	0.17	0.083	0.12
PTB	-0.024	0.044	-0.277	0.88	0.026	0.52	0.397	2.00	0.094	0.23	-0.116	0.10			-0.310	0.38	0.061	0.15	-0.033	0.09
IEN	0.286	0.372	0.033	0.96	0.336	0.64	0.707	2.04	0.404	0.44	0.194	0.38	0.310	0.38			0.371	0.40	0.277	0.38
KRISS	-0.084	0.145	-0.338	0.89	-0.034	0.54	0.336	2.01	0.034	0.27	-0.176	0.17	-0.061	0.15	-0.371	0.40			-0.094	0.17
BIPM	0.009	0.073	-0.245	0.88	0.059	0.52	0.430	2.00	0.127	0.24	-0.083	0.12	0.033	0.09	-0.277	0.38	0.094	0.17		

CCPR-K2.b Spectral responsivity λ = 650 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 700 nm

Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.033	0.140
NRC	-0.030	0.071
IFA	-0.388	0.620
NPL	0.024	0.109
HUT	-0.070	0.290
OMH	0.054	0.722
SMU	0.016	0.302
NMi	0.024	0.071
NIST	0.104	0.241
NMIJ	0.254	0.881
VNIIOFI	-0.035	0.516
CSIR	0.576	2.250
BNM/INM	-0.124	0.194
MSL	0.080	0.084
PTB	-0.025	0.045
IEN	0.223	0.476
KRISS	-0.095	0.144
BIPM	0.015	0.073

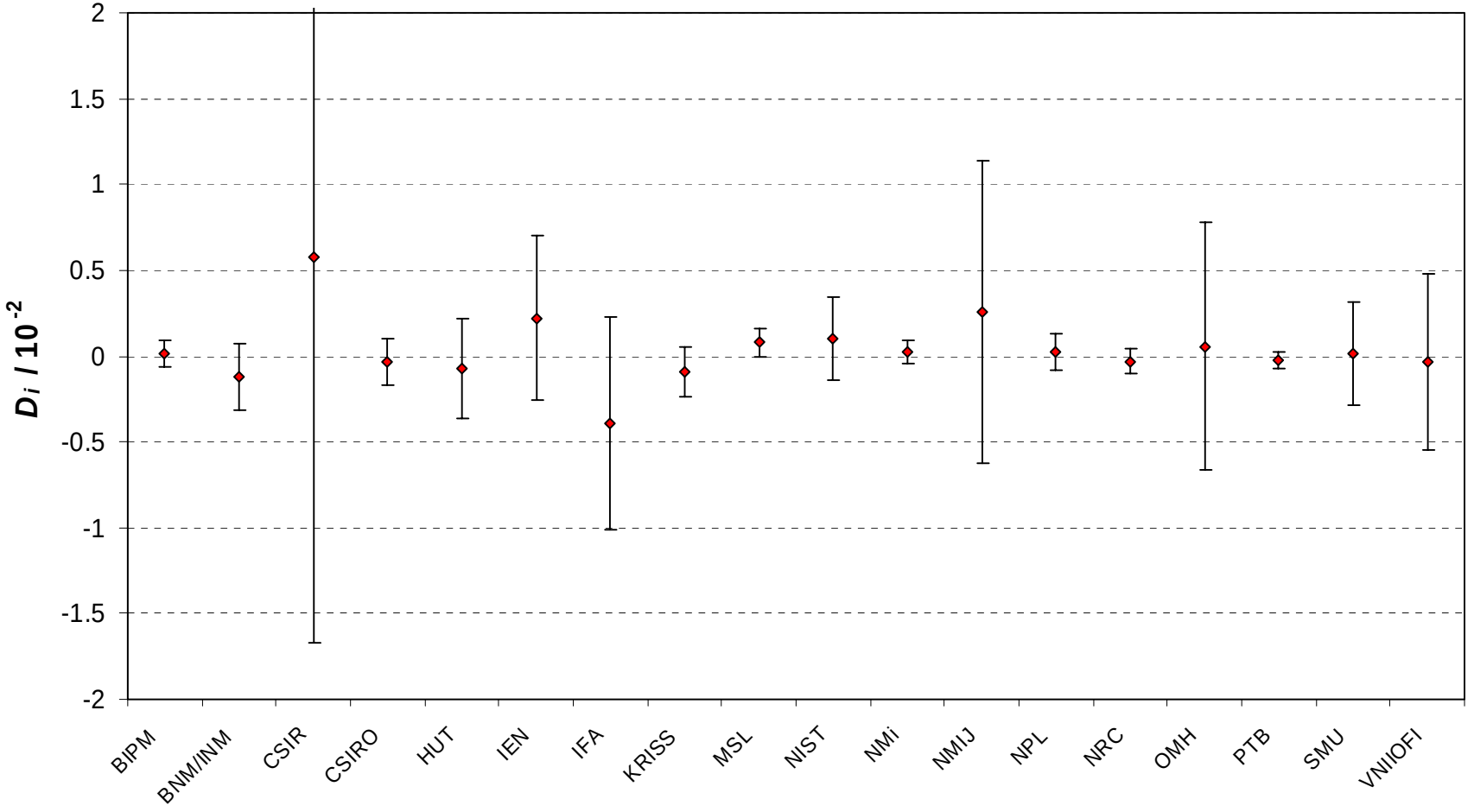
	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.004	0.16	0.355	0.64	-0.057	0.18	0.037	0.33	-0.087	0.74	-0.050	0.34	-0.057	0.16	-0.137	0.28
NRC	0.004	0.16			0.358	0.63	-0.054	0.14	0.040	0.30	-0.084	0.73	-0.046	0.31	-0.053	0.11	-0.134	0.26
IFA	-0.355	0.64	-0.358	0.63			-0.412	0.63	-0.318	0.69	-0.442	0.95	-0.404	0.69	-0.412	0.63	-0.492	0.67
NPL	0.057	0.18	0.054	0.14	0.412	0.63			0.094	0.31	-0.030	0.73	0.007	0.32	0.000	0.14	-0.080	0.27
HUT	-0.037	0.33	-0.040	0.30	0.318	0.69	-0.094	0.31			-0.124	0.78	-0.086	0.42	-0.094	0.30	-0.174	0.38
OMH	0.087	0.74	0.084	0.73	0.442	0.95	0.030	0.73	0.124	0.78			0.038	0.78	0.030	0.73	-0.050	0.76
SMU	0.050	0.34	0.046	0.31	0.404	0.69	-0.007	0.32	0.086	0.42	-0.038	0.78			-0.007	0.31	-0.088	0.39
NMi	0.057	0.16	0.053	0.11	0.412	0.63	0.000	0.14	0.094	0.30	-0.030	0.73	0.007	0.31			-0.080	0.26
NIST	0.137	0.28	0.134	0.26	0.492	0.67	0.080	0.27	0.174	0.38	0.050	0.76	0.088	0.39	0.080	0.26		
NMIJ	0.287	0.89	0.284	0.88	0.642	1.08	0.230	0.89	0.324	0.93	0.200	1.14	0.238	0.93	0.230	0.88	0.150	0.91
VNIIOFI	-0.002	0.54	-0.005	0.52	0.353	0.81	-0.059	0.53	0.035	0.59	-0.089	0.89	-0.051	0.60	-0.059	0.52	-0.139	0.57
CSIR	0.609	2.26	0.606	2.25	0.964	2.33	0.552	2.25	0.646	2.27	0.522	2.36	0.559	2.27	0.552	2.25	0.472	2.26
BNM/INM	-0.090	0.24	-0.094	0.21	0.264	0.65	-0.147	0.23	-0.053	0.35	-0.178	0.75	-0.140	0.36	-0.147	0.21	-0.228	0.31
MSL	0.114	0.17	0.110	0.12	0.468	0.63	0.056	0.15	0.150	0.31	0.026	0.73	0.064	0.32	0.057	0.12	-0.024	0.26
PTB	0.008	0.15	0.005	0.09	0.363	0.62	-0.049	0.12	0.045	0.30	-0.079	0.72	-0.041	0.31	-0.049	0.09	-0.129	0.25
IEN	0.256	0.50	0.253	0.48	0.611	0.78	0.199	0.49	0.293	0.56	0.169	0.87	0.206	0.57	0.199	0.48	0.119	0.54
KRISS	-0.062	0.21	-0.065	0.17	0.293	0.64	-0.119	0.19	-0.025	0.33	-0.149	0.74	-0.111	0.34	-0.118	0.17	-0.199	0.28
BIPM	0.048	0.16	0.045	0.11	0.403	0.63	-0.009	0.14	0.085	0.30	-0.039	0.73	-0.002	0.31	-0.009	0.11	-0.089	0.26

Lab *i*	D_i / 10-2	U_i / 10-2
CSIRO	-0.033	0.140
NRC	-0.030	0.071
IFA	-0.388	0.620
NPL	0.024	0.109
HUT	-0.070	0.290
OMH	0.054	0.722
SMU	0.016	0.302
NMi	0.024	0.071
NIST	0.104	0.241
NMIJ	0.254	0.881
VNIIOFI	-0.035	0.516
CSIR	0.576	2.250
BNM/INM	-0.124	0.194
MSL	0.080	0.084
PTB	-0.025	0.045
IEN	0.223	0.476
KRISS	-0.095	0.144
BIPM	0.015	0.073

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.287	0.89	0.002	0.54	-0.609	2.26	0.090	0.24	-0.114	0.17	-0.008	0.15	-0.256	0.50	0.062	0.21	-0.048	0.16
NRC	-0.284	0.88	0.005	0.52	-0.606	2.25	0.094	0.21	-0.110	0.12	-0.005	0.09	-0.253	0.48	0.065	0.17	-0.045	0.11
IFA	-0.642	1.08	-0.353	0.81	-0.964	2.33	-0.264	0.65	-0.468	0.63	-0.363	0.62	-0.611	0.78	-0.293	0.64	-0.403	0.63
NPL	-0.230	0.89	0.059	0.53	-0.552	2.25	0.147	0.23	-0.056	0.15	0.049	0.12	-0.199	0.49	0.119	0.19	0.009	0.14
HUT	-0.324	0.93	-0.035	0.59	-0.646	2.27	0.053	0.35	-0.150	0.31	-0.045	0.30	-0.293	0.56	0.025	0.33	-0.085	0.30
OMH	-0.200	1.14	0.089	0.89	-0.522	2.36	0.178	0.75	-0.026	0.73	0.079	0.72	-0.169	0.87	0.149	0.74	0.039	0.73
SMU	-0.238	0.93	0.051	0.60	-0.559	2.27	0.140	0.36	-0.064	0.32	0.041	0.31	-0.206	0.57	0.111	0.34	0.002	0.31
NMi	-0.230	0.88	0.059	0.52	-0.552	2.25	0.147	0.21	-0.057	0.12	0.049	0.09	-0.199	0.48	0.118	0.17	0.009	0.11
NIST	-0.150	0.91	0.139	0.57	-0.472	2.26	0.228	0.31	0.024	0.26	0.129	0.25	-0.119	0.54	0.199	0.28	0.089	0.26
NMIJ			0.289	1.02	-0.322	2.42	0.377	0.90	0.174	0.89	0.279	0.88	0.031	1.00	0.349	0.89	0.239	0.88
VNIIOFI	-0.289	1.02			-0.611	2.31	0.089	0.55	-0.115	0.52	-0.010	0.52	-0.258	0.70	0.060	0.54	-0.050	0.52
CSIR	0.322	2.42	0.611	2.31			0.699	2.26	0.496	2.25	0.601	2.25	0.353	2.30	0.671	2.26	0.561	2.25
BNM/INM	-0.377	0.90	-0.089	0.55	-0.699	2.26			-0.204	0.22	-0.099	0.20	-0.346	0.52	-0.029	0.25	-0.138	0.21
MSL	-0.174	0.89	0.115	0.52	-0.496	2.25	0.204	0.22			0.105	0.10	-0.143	0.49	0.175	0.17	0.065	0.12
PTB	-0.279	0.88	0.010	0.52	-0.601	2.25	0.099	0.20	-0.105	0.10			-0.248	0.48	0.070	0.15	-0.040	0.09
IEN	-0.031	1.00	0.258	0.70	-0.353	2.30	0.346	0.52	0.143	0.49	0.248	0.48			0.318	0.50	0.208	0.48
KRISS	-0.349	0.89	-0.060	0.54	-0.671	2.26	0.029	0.25	-0.175	0.17	-0.070	0.15	-0.318	0.50			-0.110	0.17
BIPM	-0.239	0.88	0.050	0.52	-0.561	2.25	0.138	0.21	-0.065	0.12	0.040	0.09	-0.208	0.48	0.110	0.17		

CCPR-K2.b Spectral responsivity λ = 700 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 750 nm

Lab *j* ⇨

Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.020	0.156
NRC	-0.012	0.072
IFA	-0.548	0.680
NPL	0.023	0.108
HUT	-0.116	0.270
OMH	0.051	0.801
SMU	0.021	0.301
NMi	0.024	0.068
NIST	0.084	0.241
NMIJ	0.279	1.240
VNIIOFI	-0.042	0.516
CSIR	0.609	1.600
BNM/INM	-0.092	0.182
MSL	0.065	0.103
PTB	-0.033	0.046
IEN	0.243	0.431
KRISS	-0.068	0.456
BIPM	-0.002	0.084

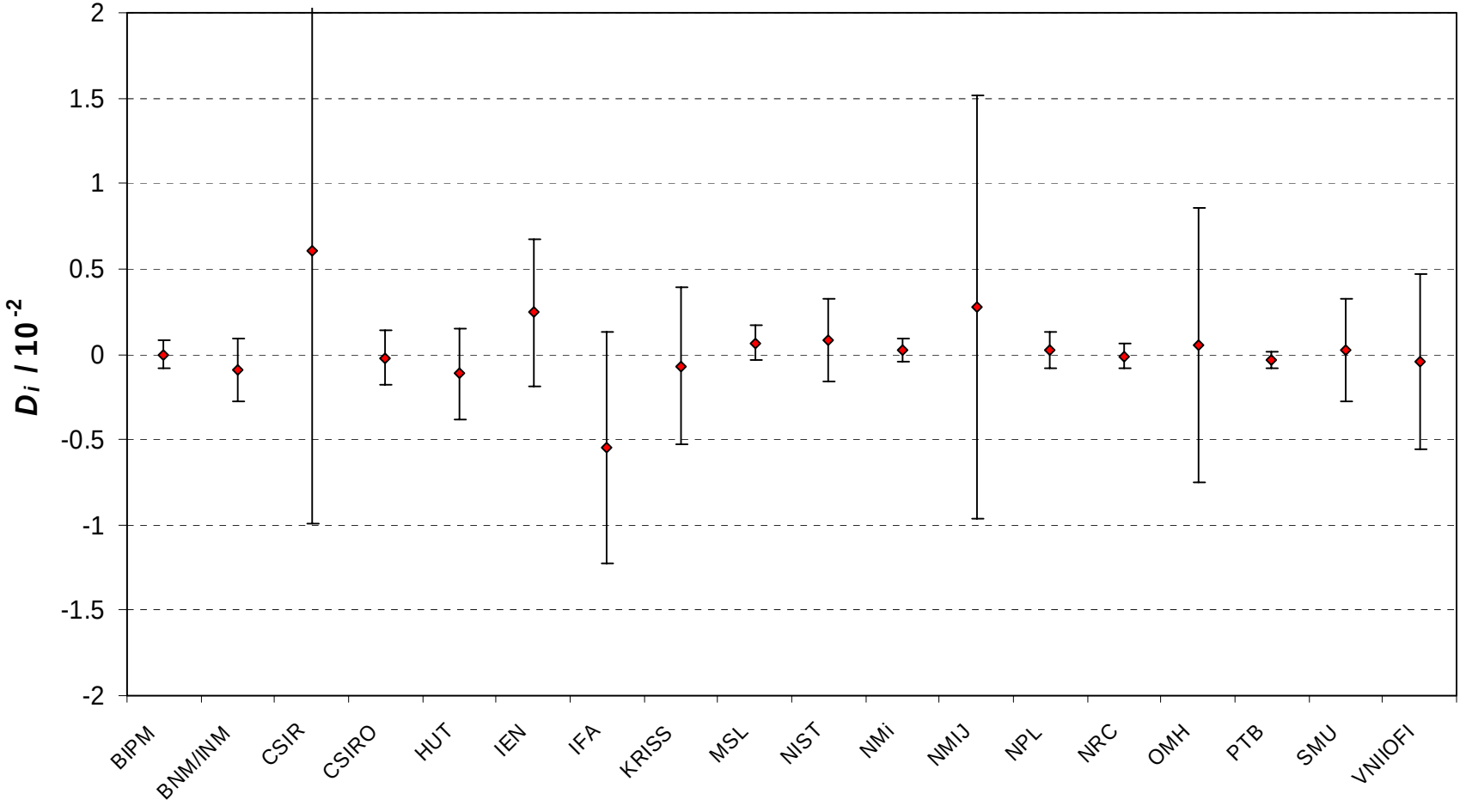
	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.008	0.18	0.529	0.70	-0.042	0.20	0.096	0.32	-0.071	0.82	-0.040	0.34	-0.044	0.18	-0.103	0.29
NRC	0.008	0.18			0.537	0.69	-0.034	0.14	0.104	0.28	-0.063	0.81	-0.032	0.31	-0.036	0.11	-0.095	0.26
IFA	-0.529	0.70	-0.537	0.69			-0.571	0.69	-0.432	0.73	-0.600	1.05	-0.569	0.75	-0.573	0.69	-0.632	0.72
NPL	0.042	0.20	0.034	0.14	0.571	0.69			0.139	0.30	-0.029	0.81	0.002	0.32	-0.002	0.14	-0.061	0.27
HUT	-0.096	0.32	-0.104	0.28	0.432	0.73	-0.139	0.30			-0.167	0.85	-0.137	0.41	-0.140	0.28	-0.200	0.37
OMH	0.071	0.82	0.063	0.81	0.600	1.05	0.029	0.81	0.167	0.85			0.031	0.86	0.027	0.81	-0.032	0.84
SMU	0.040	0.34	0.032	0.31	0.569	0.75	-0.002	0.32	0.137	0.41	-0.031	0.86			-0.004	0.31	-0.063	0.39
NMi	0.044	0.18	0.036	0.11	0.573	0.69	0.002	0.14	0.140	0.28	-0.027	0.81	0.004	0.31			-0.059	0.25
NIST	0.103	0.29	0.095	0.26	0.632	0.72	0.061	0.27	0.200	0.37	0.032	0.84	0.063	0.39	0.059	0.25		
NMIJ	0.299	1.25	0.291	1.24	0.828	1.42	0.257	1.25	0.395	1.27	0.228	1.48	0.259	1.28	0.255	1.24	0.196	1.26
VNIIOFI	-0.022	0.54	-0.030	0.52	0.507	0.86	-0.064	0.53	0.074	0.58	-0.093	0.95	-0.062	0.60	-0.066	0.52	-0.125	0.57
CSIR	0.629	1.61	0.621	1.60	1.158	1.74	0.587	1.60	0.725	1.62	0.558	1.79	0.589	1.63	0.585	1.60	0.526	1.62
BNM/INM	-0.072	0.24	-0.080	0.20	0.457	0.71	-0.114	0.22	0.024	0.33	-0.143	0.82	-0.112	0.36	-0.116	0.20	-0.175	0.31
MSL	0.084	0.19	0.076	0.13	0.613	0.69	0.042	0.16	0.181	0.29	0.013	0.81	0.044	0.32	0.040	0.13	-0.019	0.27
PTB	-0.014	0.17	-0.022	0.09	0.515	0.68	-0.056	0.12	0.083	0.28	-0.084	0.80	-0.054	0.31	-0.057	0.09	-0.117	0.25
IEN	0.263	0.46	0.255	0.44	0.791	0.81	0.220	0.45	0.359	0.51	0.192	0.91	0.222	0.53	0.219	0.44	0.159	0.50
KRISS	-0.049	0.48	-0.057	0.46	0.480	0.82	-0.091	0.47	0.048	0.53	-0.119	0.92	-0.089	0.55	-0.092	0.46	-0.152	0.52
BIPM	0.018	0.18	0.010	0.12	0.547	0.69	-0.024	0.15	0.114	0.29	-0.053	0.81	-0.022	0.32	-0.026	0.12	-0.085	0.26

	D_i / 10-2	U_i / 10-2
CSIRO	-0.020	0.156
NRC	-0.012	0.072
IFA	-0.548	0.680
NPL	0.023	0.108
HUT	-0.116	0.270
OMH	0.051	0.801
SMU	0.021	0.301
NMi	0.024	0.068
NIST	0.084	0.241
NMIJ	0.279	1.240
VNIIOFI	-0.042	0.516
CSIR	0.609	1.600
BNM/INM	-0.092	0.182
MSL	0.065	0.103
PTB	-0.033	0.046
IEN	0.243	0.431
KRISS	-0.068	0.456
BIPM	-0.002	0.084

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.299	1.25	0.022	0.54	-0.629	1.61	0.072	0.24	-0.084	0.19	0.014	0.17	-0.263	0.46	0.049	0.48	-0.018	0.18
NRC	-0.291	1.24	0.030	0.52	-0.621	1.60	0.080	0.20	-0.076	0.13	0.022	0.09	-0.255	0.44	0.057	0.46	-0.010	0.12
IFA	-0.828	1.42	-0.507	0.86	-1.158	1.74	-0.457	0.71	-0.613	0.69	-0.515	0.68	-0.791	0.81	-0.480	0.82	-0.547	0.69
NPL	-0.257	1.25	0.064	0.53	-0.587	1.60	0.114	0.22	-0.042	0.16	0.056	0.12	-0.220	0.45	0.091	0.47	0.024	0.15
HUT	-0.395	1.27	-0.074	0.58	-0.725	1.62	-0.024	0.33	-0.181	0.29	-0.083	0.28	-0.359	0.51	-0.048	0.53	-0.114	0.29
OMH	-0.228	1.48	0.093	0.95	-0.558	1.79	0.143	0.82	-0.013	0.81	0.084	0.80	-0.192	0.91	0.119	0.92	0.053	0.81
SMU	-0.259	1.28	0.062	0.60	-0.589	1.63	0.112	0.36	-0.044	0.32	0.054	0.31	-0.222	0.53	0.089	0.55	0.022	0.32
NMi	-0.255	1.24	0.066	0.52	-0.585	1.60	0.116	0.20	-0.040	0.13	0.057	0.09	-0.219	0.44	0.092	0.46	0.026	0.12
NIST	-0.196	1.26	0.125	0.57	-0.526	1.62	0.175	0.31	0.019	0.27	0.117	0.25	-0.159	0.50	0.152	0.52	0.085	0.26
NMIJ			0.321	1.34	-0.330	2.03	0.371	1.25	0.215	1.25	0.313	1.24	0.036	1.31	0.348	1.32	0.281	1.24
VNIIOFI	-0.321	1.34			-0.651	1.68	0.050	0.55	-0.106	0.53	-0.008	0.52	-0.285	0.67	0.027	0.69	-0.040	0.53
CSIR	0.330	2.03	0.651	1.68			0.701	1.61	0.545	1.60	0.643	1.60	0.366	1.66	0.678	1.66	0.611	1.60
BNM/INM	-0.371	1.25	-0.050	0.55	-0.701	1.61			-0.156	0.21	-0.059	0.19	-0.335	0.47	-0.024	0.49	-0.090	0.21
MSL	-0.215	1.25	0.106	0.53	-0.545	1.60	0.156	0.21			0.098	0.12	-0.178	0.45	0.133	0.47	0.066	0.14
PTB	-0.313	1.24	0.008	0.52	-0.643	1.60	0.059	0.19	-0.098	0.12			-0.276	0.44	0.035	0.46	-0.032	0.10
IEN	-0.036	1.31	0.285	0.67	-0.366	1.66	0.335	0.47	0.178	0.45	0.276	0.44			0.311	0.63	0.245	0.44
KRISS	-0.348	1.32	-0.027	0.69	-0.678	1.66	0.024	0.49	-0.133	0.47	-0.035	0.46	-0.311	0.63			-0.067	0.47
BIPM	-0.281	1.24	0.040	0.53	-0.611	1.60	0.090	0.21	-0.066	0.14	0.032	0.10	-0.245	0.44	0.067	0.47		

CCPR-K2.b Spectral responsivity λ = 750 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 800 nm

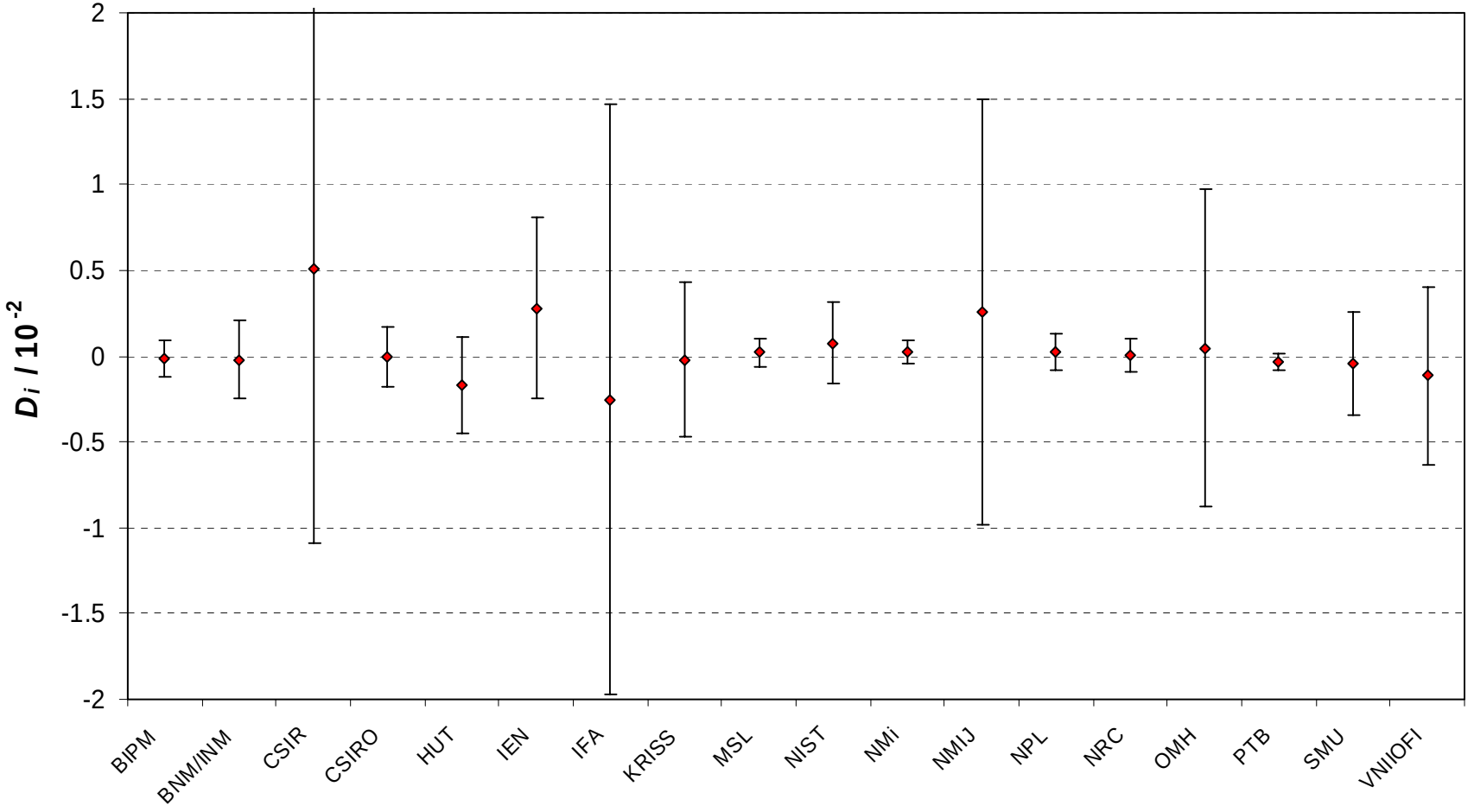
Lab *i* ⇩ **Lab *j*** ⇨

Lab *i*	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	-0.002	0.176			-0.005	0.21	0.251	1.73	-0.023	0.21	0.164	0.33	-0.048	0.94	0.041	0.35	-0.024	0.20	-0.078	0.30
NRC	0.003	0.099	0.005	0.21			0.256	1.72	-0.017	0.16	0.170	0.30	-0.042	0.93	0.046	0.32	-0.019	0.13	-0.072	0.27
IFA	-0.253	1.720	-0.251	1.73	-0.256	1.72			-0.274	1.72	-0.087	1.74	-0.299	1.95	-0.210	1.75	-0.275	1.72	-0.329	1.74
NPL	0.021	0.108	0.023	0.21	0.017	0.16	0.274	1.72			0.187	0.30	-0.025	0.93	0.063	0.32	-0.001	0.14	-0.055	0.27
HUT	-0.166	0.279	-0.164	0.33	-0.170	0.30	0.087	1.74	-0.187	0.30			-0.212	0.97	-0.124	0.41	-0.188	0.29	-0.242	0.37
OMH	0.046	0.925	0.048	0.94	0.042	0.93	0.299	1.95	0.025	0.93	0.212	0.97			0.088	0.97	0.024	0.93	-0.030	0.96
SMU	-0.043	0.301	-0.041	0.35	-0.046	0.32	0.210	1.75	-0.063	0.32	0.124	0.41	-0.088	0.97			-0.064	0.31	-0.118	0.39
NMi	0.022	0.067	0.024	0.20	0.019	0.13	0.275	1.72	0.001	0.14	0.188	0.29	-0.024	0.93	0.064	0.31			-0.054	0.25
NIST	0.076	0.240	0.078	0.30	0.072	0.27	0.329	1.74	0.055	0.27	0.242	0.37	0.030	0.96	0.118	0.39	0.054	0.25		
NMIJ	0.255	1.240	0.256	1.25	0.251	1.25	0.507	2.12	0.234	1.25	0.421	1.27	0.209	1.55	0.297	1.28	0.233	1.24	0.179	1.26
VNIIOFI	-0.115	0.516	-0.113	0.55	-0.118	0.53	0.138	1.80	-0.136	0.53	0.051	0.59	-0.160	1.06	-0.072	0.60	-0.137	0.52	-0.191	0.57
CSIR	0.512	1.600	0.514	1.61	0.509	1.60	0.765	2.35	0.491	1.60	0.678	1.63	0.466	1.85	0.555	1.63	0.490	1.60	0.436	1.62
BNM/INM	-0.022	0.228	-0.020	0.29	-0.025	0.25	0.231	1.74	-0.043	0.26	0.144	0.36	-0.068	0.95	0.021	0.38	-0.044	0.24	-0.098	0.34
MSL	0.021	0.085	0.023	0.20	0.017	0.14	0.274	1.72	0.000	0.15	0.187	0.30	-0.025	0.93	0.063	0.32	-0.001	0.12	-0.055	0.26
PTB	-0.037	0.047	-0.035	0.19	-0.041	0.12	0.216	1.72	-0.058	0.12	0.129	0.29	-0.083	0.93	0.005	0.31	-0.059	0.09	-0.113	0.25
IEN	0.281	0.531	0.283	0.56	0.277	0.54	0.534	1.80	0.260	0.54	0.447	0.60	0.235	1.07	0.323	0.61	0.259	0.54	0.205	0.59
KRISS	-0.023	0.451	-0.021	0.49	-0.027	0.46	0.230	1.78	-0.044	0.47	0.143	0.53	-0.069	1.03	0.019	0.54	-0.045	0.46	-0.099	0.51
BIPM	-0.013	0.107	-0.011	0.21	-0.016	0.16	0.240	1.72	-0.033	0.16	0.153	0.30	-0.058	0.93	0.030	0.32	-0.035	0.14	-0.088	0.27

Lab *i*	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	-0.002	0.176	-0.256	1.25	0.113	0.55	-0.514	1.61	0.020	0.29	-0.023	0.20	0.035	0.19	-0.283	0.56	0.021	0.49	0.011	0.21
NRC	0.003	0.099	-0.251	1.25	0.118	0.53	-0.509	1.60	0.025	0.25	-0.017	0.14	0.041	0.12	-0.277	0.54	0.027	0.46	0.016	0.16
IFA	-0.253	1.720	-0.507	2.12	-0.138	1.80	-0.765	2.35	-0.231	1.74	-0.274	1.72	-0.216	1.72	-0.534	1.80	-0.230	1.78	-0.240	1.72
NPL	0.021	0.108	-0.234	1.25	0.136	0.53	-0.491	1.60	0.043	0.26	0.000	0.15	0.058	0.12	-0.260	0.54	0.044	0.47	0.033	0.16
HUT	-0.166	0.279	-0.421	1.27	-0.051	0.59	-0.678	1.63	-0.144	0.36	-0.187	0.30	-0.129	0.29	-0.447	0.60	-0.143	0.53	-0.153	0.30
OMH	0.046	0.925	-0.209	1.55	0.160	1.06	-0.466	1.85	0.068	0.95	0.025	0.93	0.083	0.93	-0.235	1.07	0.069	1.03	0.058	0.93
SMU	-0.043	0.301	-0.297	1.28	0.072	0.60	-0.555	1.63	-0.021	0.38	-0.063	0.32	-0.005	0.31	-0.323	0.61	-0.019	0.54	-0.030	0.32
NMi	0.022	0.067	-0.233	1.24	0.137	0.52	-0.490	1.60	0.044	0.24	0.001	0.12	0.059	0.09	-0.259	0.54	0.045	0.46	0.035	0.14
NIST	0.076	0.240	-0.179	1.26	0.191	0.57	-0.436	1.62	0.098	0.34	0.055	0.26	0.113	0.25	-0.205	0.59	0.099	0.51	0.088	0.27
NMIJ	0.255	1.240			0.369	1.34	-0.258	2.03	0.276	1.26	0.234	1.24	0.292	1.24	-0.026	1.35	0.278	1.32	0.267	1.25
VNIIOFI	-0.115	0.516	-0.369	1.34			-0.627	1.68	-0.093	0.57	-0.136	0.53	-0.078	0.52	-0.396	0.74	-0.092	0.69	-0.102	0.53
CSIR	0.512	1.600	0.258	2.03	0.627	1.68			0.534	1.62	0.491	1.60	0.549	1.60	0.231	1.69	0.535	1.66	0.525	1.60
BNM/INM	-0.022	0.228	-0.276	1.26	0.093	0.57	-0.534	1.62			-0.043	0.25	0.015	0.24	-0.303	0.58	0.001	0.51	-0.009	0.26
MSL	0.021	0.085	-0.234	1.24	0.136	0.53	-0.491	1.60	0.043	0.25			0.058	0.10	-0.260	0.54	0.044	0.46	0.033	0.15
PTB	-0.037	0.047	-0.292	1.24	0.078	0.52	-0.549	1.60	-0.015	0.24	-0.058	0.10			-0.318	0.53	-0.014	0.45	-0.025	0.12
IEN	0.281	0.531	0.026	1.35	0.396	0.74	-0.231	1.69	0.303	0.58	0.260	0.54	0.318	0.53			0.304	0.70	0.293	0.54
KRISS	-0.023	0.451	-0.278	1.32	0.092	0.69	-0.535	1.66	-0.001	0.51	-0.044	0.46	0.014	0.45	-0.304	0.70			-0.010	0.47
BIPM	-0.013	0.107	-0.267	1.25	0.102	0.53	-0.525	1.60	0.009	0.26	-0.033	0.15	0.025	0.12	-0.293	0.54	0.010	0.47		

CCPR-K2.b Spectral responsivity λ = 800 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 850 nm

Lab *j* ⇨

Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.062	0.181
NRC	0.042	0.093
IFA	-0.313	1.680
NPL	0.031	0.105
HUT	-0.161	0.273
OMH	0.072	0.964
SMU	-0.009	0.300
NMi	0.017	0.069
NIST	0.075	0.239
NMIJ	0.148	1.240
VNIIOFI	-0.080	0.515
CSIR	0.789	1.600
BNM/INM	-0.134	0.258
MSL	-0.027	0.150
PTB	-0.030	0.052
IEN	0.261	0.555
KRISS	0.003	0.460
BIPM	-0.002	0.297

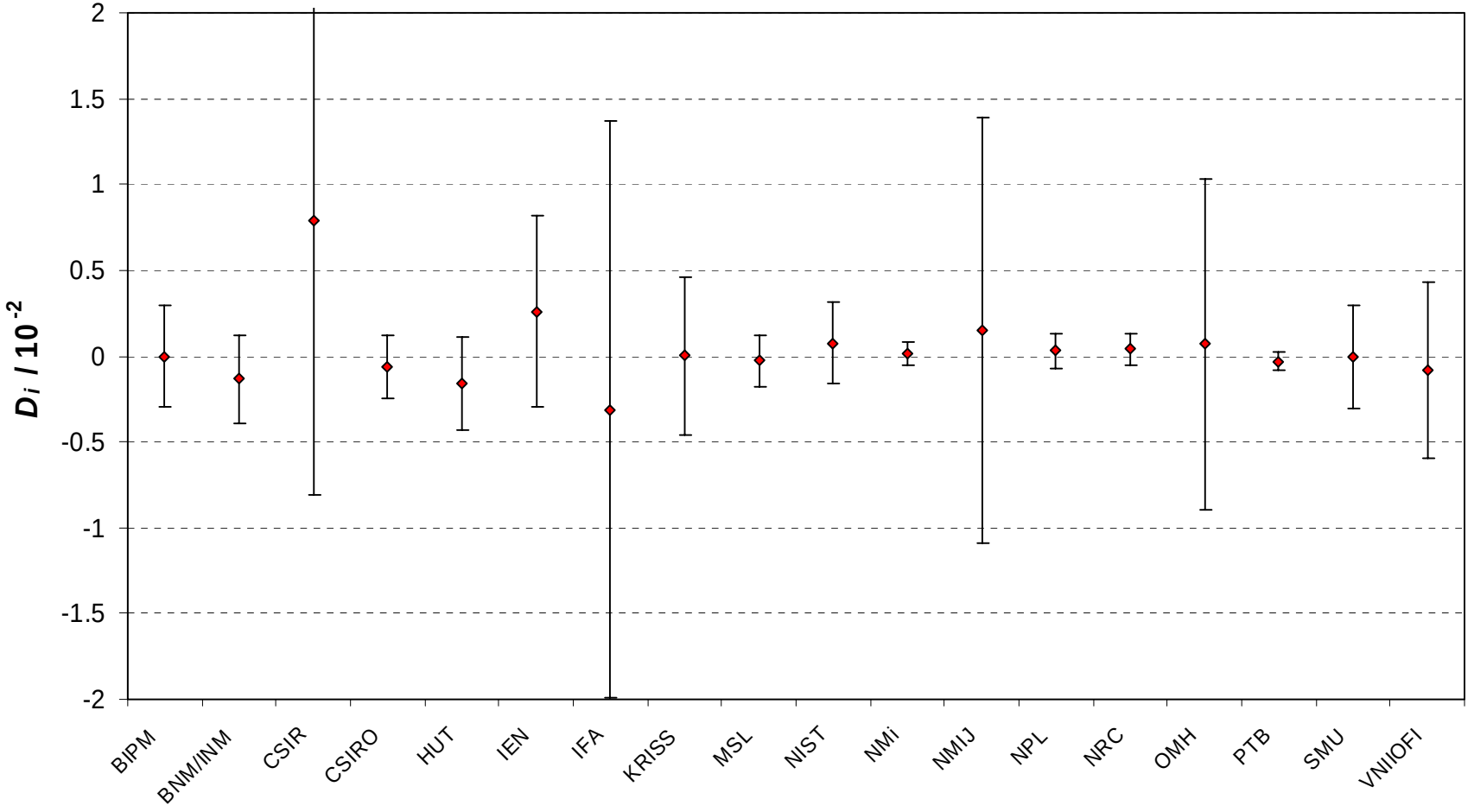
	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.104	0.21	0.251	1.69	-0.092	0.22	0.099	0.33	-0.134	0.98	-0.053	0.36	-0.078	0.20	-0.137	0.31
NRC	0.104	0.21			0.355	1.68	0.012	0.16	0.203	0.30	-0.030	0.97	0.051	0.32	0.026	0.13	-0.033	0.27
IFA	-0.251	1.69	-0.355	1.68			-0.343	1.68	-0.152	1.70	-0.385	1.94	-0.304	1.71	-0.329	1.68	-0.388	1.70
NPL	0.092	0.22	-0.012	0.16	0.343	1.68			0.191	0.30	-0.042	0.97	0.039	0.32	0.014	0.14	-0.045	0.27
HUT	-0.099	0.33	-0.203	0.30	0.152	1.70	-0.191	0.30			-0.233	1.00	-0.152	0.41	-0.177	0.29	-0.236	0.37
OMH	0.134	0.98	0.030	0.97	0.385	1.94	0.042	0.97	0.233	1.00			0.081	1.01	0.056	0.97	-0.003	1.00
SMU	0.053	0.36	-0.051	0.32	0.304	1.71	-0.039	0.32	0.152	0.41	-0.081	1.01			-0.025	0.31	-0.084	0.39
NMi	0.078	0.20	-0.026	0.13	0.329	1.68	-0.014	0.14	0.177	0.29	-0.056	0.97	0.025	0.31			-0.059	0.25
NIST	0.137	0.31	0.033	0.27	0.388	1.70	0.045	0.27	0.236	0.37	0.003	1.00	0.084	0.39	0.059	0.25		
NMIJ	0.210	1.25	0.105	1.25	0.460	2.09	0.117	1.25	0.308	1.27	0.075	1.57	0.156	1.28	0.131	1.24	0.073	1.26
VNIIOFI	-0.018	0.55	-0.122	0.53	0.233	1.76	-0.110	0.53	0.081	0.59	-0.152	1.09	-0.071	0.60	-0.097	0.52	-0.155	0.57
CSIR	0.851	1.61	0.747	1.60	1.102	2.32	0.759	1.60	0.950	1.62	0.717	1.87	0.798	1.63	0.773	1.60	0.714	1.62
BNM/INM	-0.072	0.32	-0.176	0.28	0.179	1.70	-0.165	0.29	0.027	0.38	-0.206	1.00	-0.125	0.40	-0.151	0.27	-0.209	0.36
MSL	0.035	0.24	-0.069	0.19	0.286	1.69	-0.057	0.20	0.134	0.32	-0.099	0.98	-0.018	0.34	-0.043	0.17	-0.102	0.29
PTB	0.032	0.19	-0.072	0.11	0.283	1.68	-0.060	0.12	0.131	0.28	-0.102	0.97	-0.021	0.31	-0.046	0.09	-0.105	0.25
IEN	0.323	0.59	0.219	0.57	0.573	1.77	0.230	0.57	0.422	0.62	0.189	1.11	0.270	0.63	0.244	0.56	0.186	0.61
KRISS	0.065	0.50	-0.040	0.47	0.315	1.74	-0.028	0.48	0.163	0.54	-0.070	1.07	0.011	0.55	-0.014	0.47	-0.072	0.52
BIPM	0.060	0.35	-0.044	0.32	0.311	1.71	-0.033	0.32	0.159	0.41	-0.074	1.01	0.007	0.43	-0.019	0.31	-0.077	0.39

	D_i / 10-2	U_i / 10-2
CSIRO	-0.062	0.181
NRC	0.042	0.093
IFA	-0.313	1.680
NPL	0.031	0.105
HUT	-0.161	0.273
OMH	0.072	0.964
SMU	-0.009	0.300
NMi	0.017	0.069
NIST	0.075	0.239
NMIJ	0.148	1.240
VNIIOFI	-0.080	0.515
CSIR	0.789	1.600
BNM/INM	-0.134	0.258
MSL	-0.027	0.150
PTB	-0.030	0.052
IEN	0.261	0.555
KRISS	0.003	0.460
BIPM	-0.002	0.297

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.210	1.25	0.018	0.55	-0.851	1.61	0.072	0.32	-0.035	0.24	-0.032	0.19	-0.323	0.59	-0.065	0.50	-0.060	0.35
NRC	-0.105	1.25	0.122	0.53	-0.747	1.60	0.176	0.28	0.069	0.19	0.072	0.11	-0.219	0.57	0.040	0.47	0.044	0.32
IFA	-0.460	2.09	-0.233	1.76	-1.102	2.32	-0.179	1.70	-0.286	1.69	-0.283	1.68	-0.573	1.77	-0.315	1.74	-0.311	1.71
NPL	-0.117	1.25	0.110	0.53	-0.759	1.60	0.165	0.29	0.057	0.20	0.060	0.12	-0.230	0.57	0.028	0.48	0.033	0.32
HUT	-0.308	1.27	-0.081	0.59	-0.950	1.62	-0.027	0.38	-0.134	0.32	-0.131	0.28	-0.422	0.62	-0.163	0.54	-0.159	0.41
OMH	-0.075	1.57	0.152	1.09	-0.717	1.87	0.206	1.00	0.099	0.98	0.102	0.97	-0.189	1.11	0.070	1.07	0.074	1.01
SMU	-0.156	1.28	0.071	0.60	-0.798	1.63	0.125	0.40	0.018	0.34	0.021	0.31	-0.270	0.63	-0.011	0.55	-0.007	0.43
NMi	-0.131	1.24	0.097	0.52	-0.773	1.60	0.151	0.27	0.043	0.17	0.046	0.09	-0.244	0.56	0.014	0.47	0.019	0.31
NIST	-0.073	1.26	0.155	0.57	-0.714	1.62	0.209	0.36	0.102	0.29	0.105	0.25	-0.186	0.61	0.072	0.52	0.077	0.39
NMIJ			0.228	1.34	-0.642	2.03	0.282	1.27	0.174	1.25	0.177	1.24	-0.113	1.36	0.145	1.32	0.150	1.28
VNIIOFI	-0.228	1.34			-0.869	1.68	0.054	0.58	-0.053	0.54	-0.050	0.52	-0.341	0.76	-0.083	0.69	-0.078	0.60
CSIR	0.642	2.03	0.869	1.68			0.923	1.62	0.816	1.61	0.819	1.60	0.528	1.69	0.787	1.67	0.791	1.63
BNM/INM	-0.282	1.27	-0.054	0.58	-0.923	1.62			-0.107	0.31	-0.104	0.27	-0.395	0.62	-0.137	0.53	-0.132	0.40
MSL	-0.174	1.25	0.053	0.54	-0.816	1.61	0.107	0.31			0.003	0.16	-0.288	0.58	-0.029	0.49	-0.025	0.34
PTB	-0.177	1.24	0.050	0.52	-0.819	1.60	0.104	0.27	-0.003	0.16			-0.291	0.56	-0.032	0.46	-0.028	0.30
IEN	0.113	1.36	0.341	0.76	-0.528	1.69	0.395	0.62	0.288	0.58	0.291	0.56			0.258	0.72	0.263	0.63
KRISS	-0.145	1.32	0.083	0.69	-0.787	1.67	0.137	0.53	0.029	0.49	0.032	0.46	-0.258	0.72			0.005	0.55
BIPM	-0.150	1.28	0.078	0.60	-0.791	1.63	0.132	0.40	0.025	0.34	0.028	0.30	-0.263	0.63	-0.005	0.55		

CCPR-K2.b Spectral responsivity λ = 850 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 900 nm **Lab *j*** ⇨

Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.093	0.193
NRC	0.022	0.081
IFA	-0.627	1.660
NPL	0.047	0.105
HUT	-0.244	0.279
OMH	0.098	1.077
SMU	-0.018	0.300
NMi	0.026	0.072
NIST	0.112	0.239
NMIJ	0.050	1.240
VNIIOFI	-0.029	0.575
CSIR	0.543	1.600
BNM/INM	-0.047	0.176
MSL	-0.064	0.151
PTB	-0.018	0.053
IEN	0.273	0.555
KRISS	-0.082	0.460
BIPM	0.071	0.572

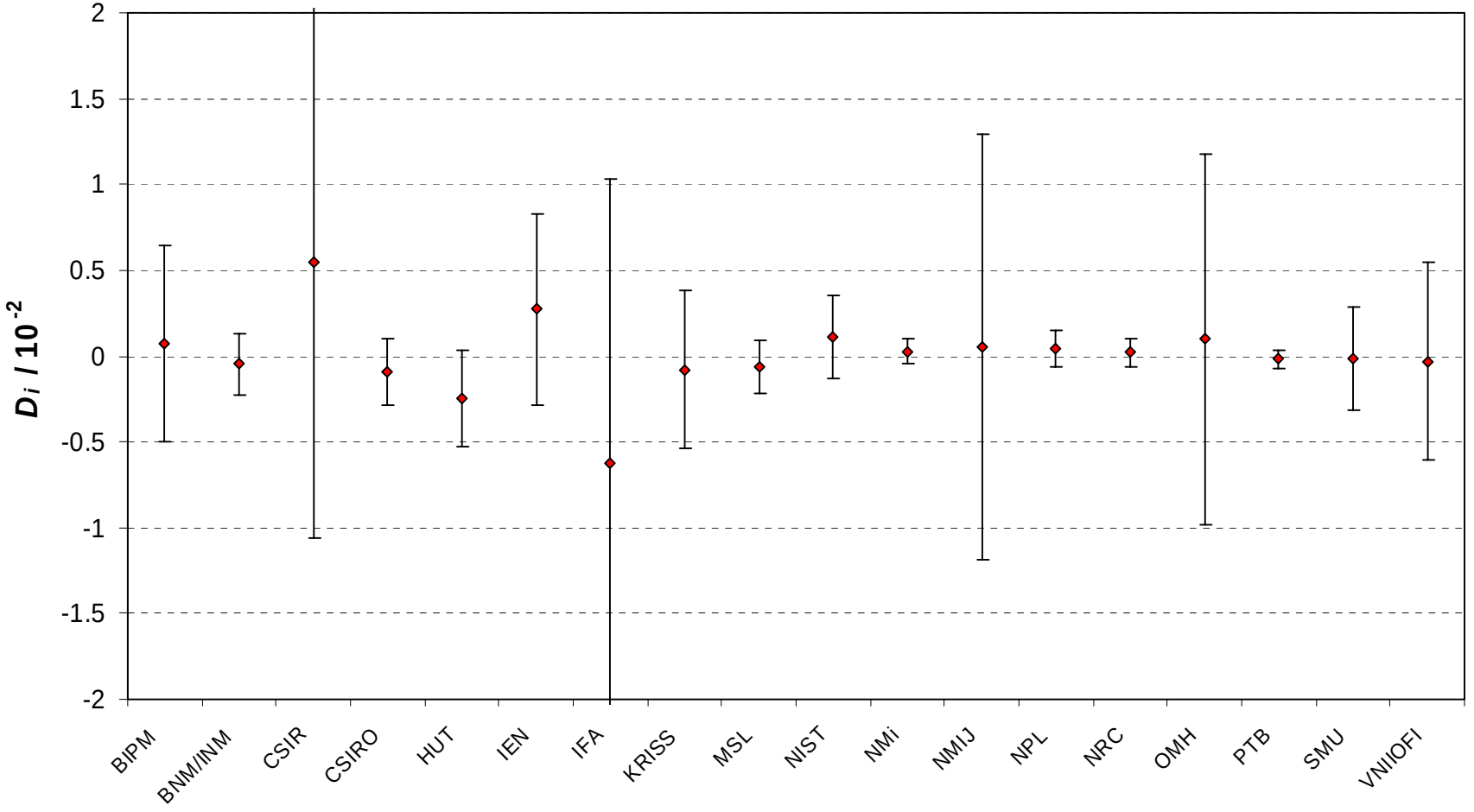
	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.115	0.22	0.534	1.67	-0.140	0.23	0.151	0.35	-0.191	1.10	-0.075	0.36	-0.119	0.21	-0.205	0.31
NRC	0.115	0.22			0.649	1.66	-0.025	0.15	0.266	0.30	-0.076	1.08	0.040	0.32	-0.004	0.12	-0.090	0.26
IFA	-0.534	1.67	-0.649	1.66			-0.674	1.66	-0.383	1.68	-0.725	1.98	-0.609	1.69	-0.653	1.66	-0.740	1.68
NPL	0.140	0.23	0.025	0.15	0.674	1.66			0.291	0.31	-0.051	1.08	0.065	0.32	0.021	0.14	-0.065	0.27
HUT	-0.151	0.35	-0.266	0.30	0.383	1.68	-0.291	0.31			-0.342	1.11	-0.226	0.41	-0.270	0.29	-0.356	0.37
OMH	0.191	1.10	0.076	1.08	0.725	1.98	0.051	1.08	0.342	1.11			0.116	1.12	0.072	1.08	-0.014	1.11
SMU	0.075	0.36	-0.040	0.32	0.609	1.69	-0.065	0.32	0.226	0.41	-0.116	1.12			-0.044	0.31	-0.131	0.39
NMi	0.119	0.21	0.004	0.12	0.653	1.66	-0.021	0.14	0.270	0.29	-0.072	1.08	0.044	0.31			-0.086	0.26
NIST	0.205	0.31	0.090	0.26	0.740	1.68	0.065	0.27	0.356	0.37	0.014	1.11	0.131	0.39	0.086	0.26		
NMIJ	0.143	1.26	0.028	1.24	0.677	2.07	0.003	1.25	0.294	1.27	-0.048	1.64	0.068	1.28	0.024	1.24	-0.062	1.26
VNIIOFI	0.063	0.61	-0.051	0.58	0.598	1.76	-0.076	0.59	0.215	0.64	-0.127	1.22	-0.011	0.65	-0.055	0.58	-0.142	0.63
CSIR	0.636	1.61	0.521	1.60	1.170	2.31	0.496	1.60	0.787	1.63	0.445	1.93	0.561	1.63	0.517	1.60	0.431	1.62
BNM/INM	0.046	0.27	-0.069	0.20	0.581	1.67	-0.094	0.22	0.198	0.34	-0.144	1.09	-0.028	0.35	-0.073	0.20	-0.159	0.30
MSL	0.029	0.25	-0.086	0.18	0.564	1.67	-0.111	0.20	0.181	0.32	-0.161	1.09	-0.045	0.34	-0.090	0.18	-0.176	0.29
PTB	0.075	0.20	-0.040	0.10	0.609	1.66	-0.065	0.12	0.226	0.29	-0.116	1.08	0.000	0.31	-0.044	0.09	-0.130	0.25
IEN	0.366	0.59	0.251	0.56	0.900	1.75	0.226	0.57	0.517	0.62	0.175	1.21	0.291	0.63	0.247	0.56	0.161	0.61
KRISS	0.011	0.50	-0.104	0.47	0.546	1.72	-0.129	0.48	0.162	0.54	-0.180	1.17	-0.064	0.55	-0.108	0.47	-0.194	0.52
BIPM	0.164	0.61	0.049	0.58	0.699	1.76	0.024	0.59	0.316	0.64	-0.027	1.22	0.090	0.65	0.045	0.58	-0.041	0.62

	D_i / 10-2	U_i / 10-2
CSIRO	-0.093	0.193
NRC	0.022	0.081
IFA	-0.627	1.660
NPL	0.047	0.105
HUT	-0.244	0.279
OMH	0.098	1.077
SMU	-0.018	0.300
NMi	0.026	0.072
NIST	0.112	0.239
NMIJ	0.050	1.240
VNIIOFI	-0.029	0.575
CSIR	0.543	1.600
BNM/INM	-0.047	0.176
MSL	-0.064	0.151
PTB	-0.018	0.053
IEN	0.273	0.555
KRISS	-0.082	0.460
BIPM	0.071	0.572

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2	D_{ij} / 10-2	U_{ij} / 10-2
CSIRO	-0.143	1.26	-0.063	0.61	-0.636	1.61	-0.046	0.27	-0.029	0.25	-0.075	0.20	-0.366	0.59	-0.011	0.50	-0.164	0.61
NRC	-0.028	1.24	0.051	0.58	-0.521	1.60	0.069	0.20	0.086	0.18	0.040	0.10	-0.251	0.56	0.104	0.47	-0.049	0.58
IFA	-0.677	2.07	-0.598	1.76	-1.170	2.31	-0.581	1.67	-0.564	1.67	-0.609	1.66	-0.900	1.75	-0.546	1.72	-0.699	1.76
NPL	-0.003	1.25	0.076	0.59	-0.496	1.60	0.094	0.22	0.111	0.20	0.065	0.12	-0.226	0.57	0.129	0.48	-0.024	0.59
HUT	-0.294	1.27	-0.215	0.64	-0.787	1.63	-0.198	0.34	-0.181	0.32	-0.226	0.29	-0.517	0.62	-0.162	0.54	-0.316	0.64
OMH	0.048	1.64	0.127	1.22	-0.445	1.93	0.144	1.09	0.161	1.09	0.116	1.08	-0.175	1.21	0.180	1.17	0.027	1.22
SMU	-0.068	1.28	0.011	0.65	-0.561	1.63	0.028	0.35	0.045	0.34	0.000	0.31	-0.291	0.63	0.064	0.55	-0.090	0.65
NMi	-0.024	1.24	0.055	0.58	-0.517	1.60	0.073	0.20	0.090	0.18	0.044	0.09	-0.247	0.56	0.108	0.47	-0.045	0.58
NIST	0.062	1.26	0.142	0.63	-0.431	1.62	0.159	0.30	0.176	0.29	0.130	0.25	-0.161	0.61	0.194	0.52	0.041	0.62
NMIJ			0.079	1.37	-0.493	2.03	0.096	1.25	0.113	1.25	0.068	1.24	-0.223	1.36	0.132	1.32	-0.021	1.37
VNIIOFI	-0.079	1.37			-0.572	1.70	0.017	0.61	0.034	0.60	-0.011	0.58	-0.302	0.80	0.052	0.74	-0.101	0.81
CSIR	0.493	2.03	0.572	1.70			0.590	1.61	0.607	1.61	0.561	1.60	0.270	1.69	0.625	1.67	0.472	1.70
BNM/INM	-0.096	1.25	-0.017	0.61	-0.590	1.61			0.017	0.24	-0.029	0.19	-0.320	0.59	0.035	0.50	-0.118	0.60
MSL	-0.113	1.25	-0.034	0.60	-0.607	1.61	-0.017	0.24			-0.046	0.17	-0.337	0.58	0.018	0.49	-0.135	0.60
PTB	-0.068	1.24	0.011	0.58	-0.561	1.60	0.029	0.19	0.046	0.17			-0.291	0.56	0.064	0.47	-0.089	0.58
IEN	0.223	1.36	0.302	0.80	-0.270	1.69	0.320	0.59	0.337	0.58	0.291	0.56			0.355	0.72	0.202	0.80
KRISS	-0.132	1.32	-0.052	0.74	-0.625	1.67	-0.035	0.50	-0.018	0.49	-0.064	0.47	-0.355	0.72			-0.153	0.74
BIPM	0.021	1.37	0.101	0.81	-0.472	1.70	0.118	0.60	0.135	0.60	0.089	0.58	-0.202	0.80	0.153	0.74		

CCPR-K2.b Spectral responsivity λ = 900 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 950 nm **Lab *j*** ⇨

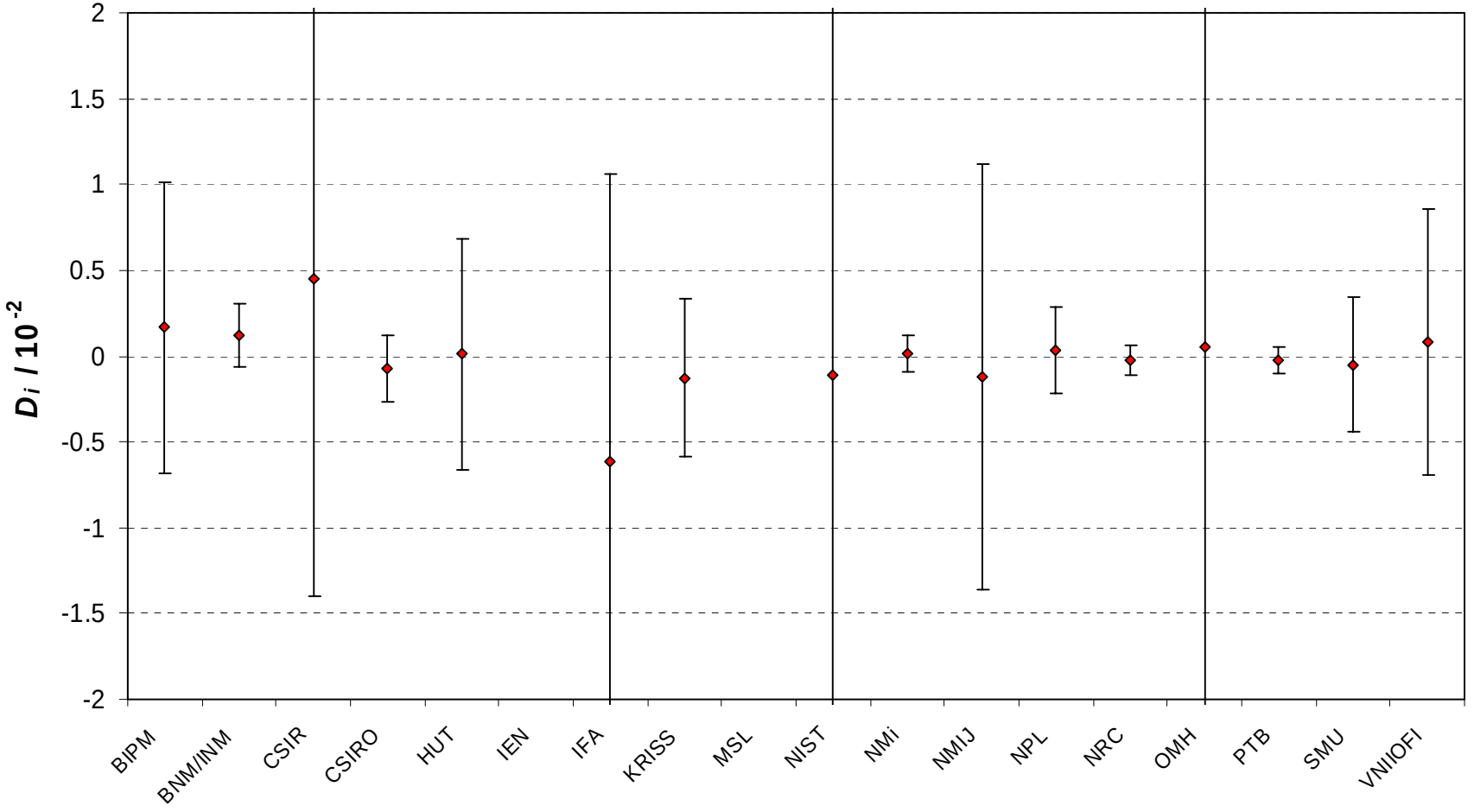
Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}	CSIRO D_{ij} / 10^{-2}	CSIRO U_{ij} / 10^{-2}	NRC D_{ij} / 10^{-2}	NRC U_{ij} / 10^{-2}	IFA D_{ij} / 10^{-2}	IFA U_{ij} / 10^{-2}	NPL D_{ij} / 10^{-2}	NPL U_{ij} / 10^{-2}	HUT D_{ij} / 10^{-2}	HUT U_{ij} / 10^{-2}	OMH D_{ij} / 10^{-2}	OMH U_{ij} / 10^{-2}	SMU D_{ij} / 10^{-2}	SMU U_{ij} / 10^{-2}	NMi D_{ij} / 10^{-2}	NMi U_{ij} / 10^{-2}	NIST D_{ij} / 10^{-2}	NIST U_{ij} / 10^{-2}
CSIRO	**-0.071**	0.195			**-0.048**	0.23	**0.544**	1.69	**-0.102**	0.34	**-0.082**	0.71	**-0.127**	2.66	**-0.022**	0.46	**-0.086**	0.25	**0.040**	2.59
NRC	**-0.023**	0.090	**0.048**	0.23			**0.592**	1.68	**-0.054**	0.28	**-0.034**	0.68	**-0.079**	2.65	**0.026**	0.42	**-0.038**	0.15	**0.089**	2.58
IFA	**-0.615**	1.679	**-0.544**	1.69	**-0.592**	1.68			**-0.646**	1.70	**-0.626**	1.81	**-0.670**	3.14	**-0.566**	1.73	**-0.630**	1.69	**-0.503**	3.08
NPL	**0.031**	0.251	**0.102**	0.34	**0.054**	0.28	**0.646**	1.70			**0.020**	0.73	**-0.024**	2.66	**0.080**	0.48	**0.016**	0.29	**0.143**	2.59
HUT	**0.011**	0.672	**0.082**	0.71	**0.034**	0.68	**0.626**	1.81	**-0.020**	0.73			**-0.045**	2.74	**0.060**	0.79	**-0.004**	0.69	**0.123**	2.67
OMH	**0.056**	2.651	**0.127**	2.66	**0.079**	2.65	**0.670**	3.14	**0.024**	2.66	**0.045**	2.74			**0.105**	2.68	**0.041**	2.65	**0.167**	3.70
SMU	**-0.049**	0.397	**0.022**	0.46	**-0.026**	0.42	**0.566**	1.73	**-0.080**	0.48	**-0.060**	0.79	**-0.105**	2.68			**-0.064**	0.42	**0.063**	2.61
NMi	**0.015**	0.110	**0.086**	0.25	**0.038**	0.15	**0.630**	1.69	**-0.016**	0.29	**0.004**	0.69	**-0.041**	2.65	**0.064**	0.42			**0.127**	2.58
NIST	**-0.111**	2.579	**-0.040**	2.59	**-0.089**	2.58	**0.503**	3.08	**-0.143**	2.59	**-0.123**	2.67	**-0.167**	3.70	**-0.063**	2.61	**-0.127**	2.58		
NMIJ	**-0.119**	1.239	**-0.048**	1.26	**-0.096**	1.25	**0.496**	2.09	**-0.150**	1.27	**-0.130**	1.41	**-0.175**	2.93	**-0.070**	1.31	**-0.134**	1.25	**-0.007**	2.86
VNIIOFI	**0.080**	0.774	**0.151**	0.81	**0.103**	0.78	**0.695**	1.85	**0.049**	0.82	**0.069**	1.03	**0.024**	2.76	**0.129**	0.88	**0.065**	0.79	**0.192**	2.70
CSIR	**0.448**	1.849	**0.519**	1.86	**0.470**	1.85	**1.062**	2.50	**0.416**	1.87	**0.437**	1.97	**0.392**	3.23	**0.496**	1.90	**0.433**	1.86	**0.559**	3.18
BNM/INM	**0.123**	0.183	**0.194**	0.29	**0.146**	0.22	**0.738**	1.69	**0.092**	0.33	**0.112**	0.71	**0.067**	2.66	**0.172**	0.45	**0.108**	0.24	**0.234**	2.59
MSL																				
PTB	**-0.024**	0.075	**0.047**	0.22	**-0.001**	0.11	**0.591**	1.68	**-0.055**	0.27	**-0.035**	0.68	**-0.080**	2.65	**0.025**	0.41	**-0.039**	0.14	**0.087**	2.58
IEN																				
KRISS	**-0.127**	0.458	**-0.056**	0.51	**-0.104**	0.47	**0.488**	1.74	**-0.158**	0.54	**-0.138**	0.82	**-0.183**	2.69	**-0.078**	0.62	**-0.142**	0.48	**-0.016**	2.62
BIPM	**0.167**	0.845	**0.238**	0.88	**0.190**	0.85	**0.782**	1.88	**0.136**	0.89	**0.156**	1.09	**0.111**	2.78	**0.216**	0.94	**0.152**	0.86	**0.279**	2.72

	D_i / 10-2	U_i / 10-2	NMIJ D_{ij} / 10-2	NMIJ U_{ij} / 10-2	VNIIOFI D_{ij} / 10-2	VNIIOFI U_{ij} / 10-2	CSIR D_{ij} / 10-2	CSIR U_{ij} / 10-2	BNM/INM D_{ij} / 10-2	BNM/INM U_{ij} / 10-2	MSL D_{ij} / 10-2	MSL U_{ij} / 10-2	PTB D_{ij} / 10-2	PTB U_{ij} / 10-2	IEN D_{ij} / 10-2	IEN U_{ij} / 10-2	KRISS D_{ij} / 10-2	KRISS U_{ij} / 10-2	BIPM D_{ij} / 10-2	BIPM U_{ij} / 10-2
CSIRO	**-0.071**	0.195	**0.048**	1.26	**-0.151**	0.81	**-0.519**	1.86	**-0.194**	0.29			**-0.047**	0.22			**0.056**	0.51	**-0.238**	0.88
NRC	**-0.023**	0.090	**0.096**	1.25	**-0.103**	0.78	**-0.470**	1.85	**-0.146**	0.22			**0.001**	0.11			**0.104**	0.47	**-0.190**	0.85
IFA	**-0.615**	1.679	**-0.496**	2.09	**-0.695**	1.85	**-1.062**	2.50	**-0.738**	1.69			**-0.591**	1.68			**-0.488**	1.74	**-0.782**	1.88
NPL	**0.031**	0.251	**0.150**	1.27	**-0.049**	0.82	**-0.416**	1.87	**-0.092**	0.33			**0.055**	0.27			**0.158**	0.54	**-0.136**	0.89
HUT	**0.011**	0.672	**0.130**	1.41	**-0.069**	1.03	**-0.437**	1.97	**-0.112**	0.71			**0.035**	0.68			**0.138**	0.82	**-0.156**	1.09
OMH	**0.056**	2.651	**0.175**	2.93	**-0.024**	2.76	**-0.392**	3.23	**-0.067**	2.66			**0.080**	2.65			**0.183**	2.69	**-0.111**	2.78
SMU	**-0.049**	0.397	**0.070**	1.31	**-0.129**	0.88	**-0.496**	1.90	**-0.172**	0.45			**-0.025**	0.41			**0.078**	0.62	**-0.216**	0.94
NMi	**0.015**	0.110	**0.134**	1.25	**-0.065**	0.79	**-0.433**	1.86	**-0.108**	0.24			**0.039**	0.14			**0.142**	0.48	**-0.152**	0.86
NIST	**-0.111**	2.579	**0.007**	2.86	**-0.192**	2.70	**-0.559**	3.18	**-0.234**	2.59			**-0.087**	2.58			**0.016**	2.62	**-0.279**	2.72
NMIJ	**-0.119**	1.239			**-0.199**	1.47	**-0.567**	2.23	**-0.242**	1.26			**-0.095**	1.24			**0.008**	1.33	**-0.286**	1.50
VNIIOFI	**0.080**	0.774	**0.199**	1.47			**-0.368**	2.01	**-0.043**	0.80			**0.104**	0.78			**0.207**	0.91	**-0.087**	1.15
CSIR	**0.448**	1.849	**0.567**	2.23	**0.368**	2.01			**0.325**	1.86			**0.472**	1.85			**0.575**	1.91	**0.281**	2.04
BNM/INM	**0.123**	0.183	**0.242**	1.26	**0.043**	0.80	**-0.325**	1.86					**0.147**	0.21			**0.250**	0.51	**-0.044**	0.87
MSL																				
PTB	**-0.024**	0.075	**0.095**	1.24	**-0.104**	0.78	**-0.472**	1.85	**-0.147**	0.21							**0.103**	0.47	**-0.191**	0.85
IEN																				
KRISS	**-0.127**	0.458	**-0.008**	1.33	**-0.207**	0.91	**-0.575**	1.91	**-0.250**	0.51			**-0.103**	0.47					**-0.294**	0.97
BIPM	**0.167**	0.845	**0.286**	1.50	**0.087**	1.15	**-0.281**	2.04	**0.044**	0.87			**0.191**	0.85			**0.294**	0.97		

CCPR-K2.b Spectral responsivity λ = 950 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)



CCPR-K2.b

At each wavelength, the key comparison reference value x_{KCRV} is calculated as the weighted mean of the participant's results x_i, weighted by the inverse square of the individual uncertainties, u_i, with weights limited to a maximum of 20%.

The degree of equivalence of the i-th laboratory with respect to the reference value is given by a pair of terms:
$D_i = (x_i - x_{KCRV})$ and U_i its expanded uncertainty ($k = 2$), both expressed in relative units.

The degree of equivalence between two laboratories is given by a pair of terms:
$D_{ij} = D_i - D_j$ and U_{ij} its expanded uncertainty ($k = 2$), both expressed in relative units.

Wavelength = 1000 nm **Lab *j*** ⇨

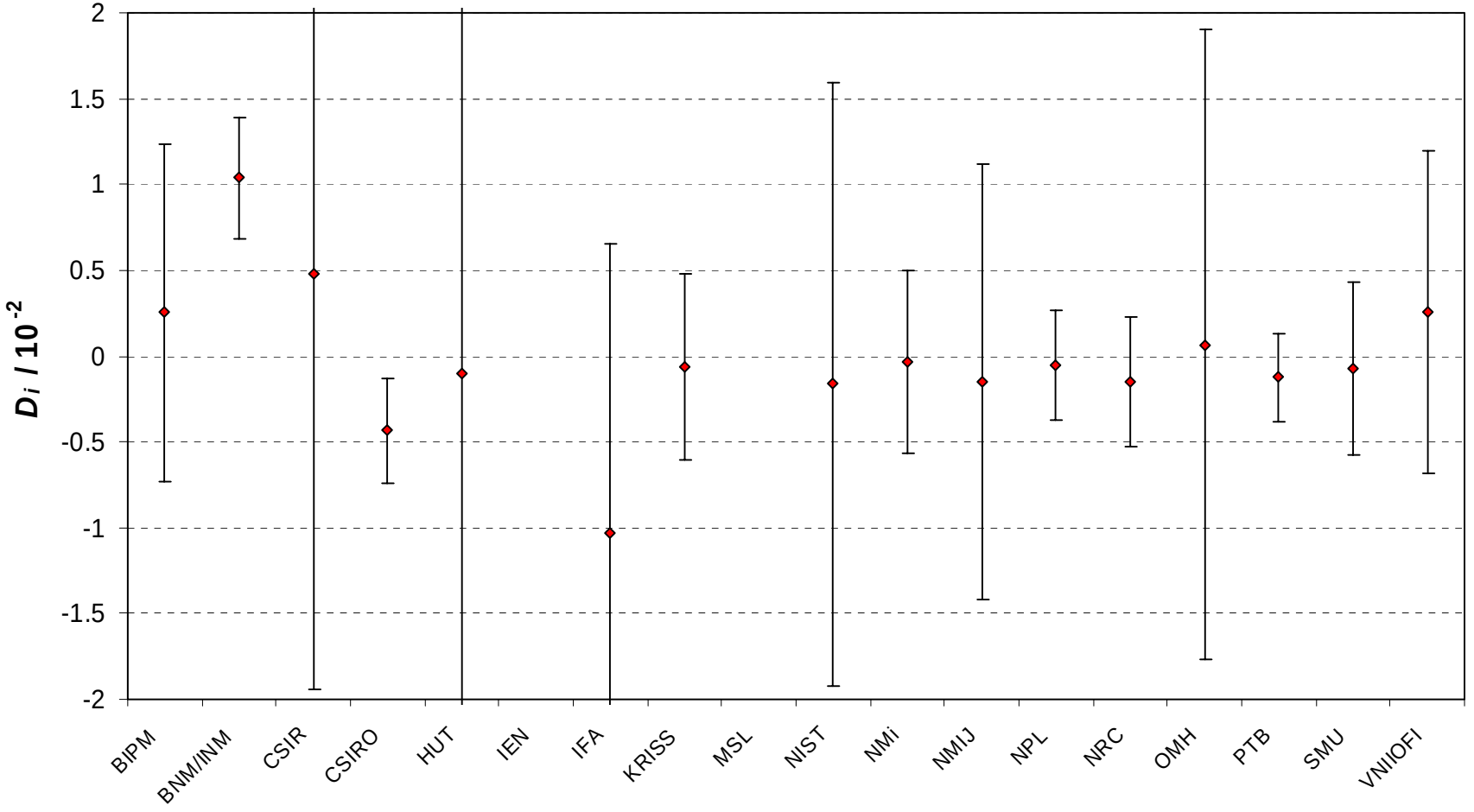
Lab *i* ⇩

	D_i / 10^{-2}	U_i / 10^{-2}
CSIRO	-0.435	0.304
NRC	-0.149	0.375
IFA	-1.035	1.690
NPL	-0.056	0.318
HUT	-0.101	2.587
OMH	0.065	1.837
SMU	-0.075	0.504
NMi	-0.032	0.531
NIST	-0.164	1.759
NMIJ	-0.154	1.270
VNIIOFI	0.258	0.942
CSIR	0.478	2.416
BNM/INM	1.038	0.356
MSL		
PTB	-0.122	0.258
IEN		
KRISS	-0.062	0.545
BIPM	0.252	0.985

	CSIRO		NRC		IFA		NPL		HUT		OMH		SMU		NMi		NIST	
	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}	D_{ij} / 10^{-2}	U_{ij} / 10^{-2}
CSIRO			-0.286	0.52	0.600	1.73	-0.378	0.48	-0.333	2.61	-0.500	1.86	-0.360	0.62	-0.403	0.64	-0.271	1.80
NRC	0.286	0.52			0.886	1.74	-0.092	0.53	-0.047	2.62	-0.214	1.87	-0.074	0.66	-0.117	0.68	0.015	1.81
IFA	-0.600	1.73	-0.886	1.74			-0.978	1.73	-0.933	3.10	-1.100	2.50	-0.960	1.77	-1.003	1.78	-0.871	2.45
NPL	0.378	0.48	0.092	0.53	0.978	1.73			0.045	2.61	-0.122	1.86	0.018	0.63	-0.025	0.65	0.108	1.80
HUT	0.333	2.61	0.047	2.62	0.933	3.10	-0.045	2.61			-0.167	3.17	-0.026	2.64	-0.070	2.65	0.063	3.13
OMH	0.500	1.86	0.214	1.87	1.100	2.50	0.122	1.86	0.167	3.17			0.140	1.90	0.097	1.91	0.229	2.54
SMU	0.360	0.62	0.074	0.66	0.960	1.77	-0.018	0.63	0.026	2.64	-0.140	1.90			-0.043	0.76	0.089	1.84
NMi	0.403	0.64	0.117	0.68	1.003	1.78	0.025	0.65	0.070	2.65	-0.097	1.91	0.043	0.76			0.132	1.85
NIST	0.271	1.80	-0.015	1.81	0.871	2.45	-0.108	1.80	-0.063	3.13	-0.229	2.54	-0.089	1.84	-0.132	1.85		
NMIJ	0.281	1.32	-0.005	1.34	0.881	2.12	-0.097	1.32	-0.052	2.89	-0.219	2.23	-0.079	1.38	-0.122	1.39	0.010	2.18
VNIIOFI	0.692	1.01	0.407	1.03	1.293	1.94	0.314	1.01	0.359	2.76	0.193	2.06	0.333	1.09	0.289	1.10	0.422	2.00
CSIR	0.912	2.44	0.626	2.45	1.512	2.95	0.534	2.44	0.579	3.54	0.412	3.03	0.553	2.48	0.509	2.48	0.642	2.99
BNM/INM	1.472	0.51	1.186	0.55	2.072	1.74	1.094	0.51	1.139	2.62	0.972	1.87	1.113	0.65	1.069	0.67	1.202	1.81
MSL																		
PTB	0.312	0.44	0.026	0.49	0.912	1.72	-0.066	0.45	-0.021	2.61	-0.188	1.85	-0.048	0.59	-0.091	0.62	0.041	1.79
IEN																		
KRISS	0.372	0.65	0.086	0.69	0.972	1.79	-0.006	0.66	0.039	2.65	-0.128	1.92	0.013	0.77	-0.031	0.78	0.102	1.85
BIPM	0.687	1.05	0.401	1.07	1.287	1.97	0.309	1.05	0.353	2.77	0.187	2.08	0.327	1.12	0.284	1.14	0.416	2.03

	Di / 10-2	Ui / 10-2
CSIRO	-0.435	0.304
NRC	-0.149	0.375
IFA	-1.035	1.690
NPL	-0.056	0.318
HUT	-0.101	2.587
OMH	0.065	1.837
SMU	-0.075	0.504
NMi	-0.032	0.531
NIST	-0.164	1.759
NMIJ	-0.154	1.270
VNIIOFI	0.258	0.942
CSIR	0.478	2.416
BNM/INM	1.038	0.356
MSL		
PTB	-0.122	0.258
IEN		
KRISS	-0.062	0.545
BIPM	0.252	0.985

	NMIJ		VNIIOFI		CSIR		BNM/INM		MSL		PTB		IEN		KRISS		BIPM	
	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2	$Di\ j$ / 10-2	$Ui\ j$ / 10-2
CSIRO	-0.281	1.32	-0.692	1.01	-0.912	2.44	-1.472	0.51			-0.312	0.44			-0.372	0.65	-0.687	1.05
NRC	0.005	1.34	-0.407	1.03	-0.626	2.45	-1.186	0.55			-0.026	0.49			-0.086	0.69	-0.401	1.07
IFA	-0.881	2.12	-1.293	1.94	-1.512	2.95	-2.072	1.74			-0.912	1.72			-0.972	1.79	-1.287	1.97
NPL	0.097	1.32	-0.314	1.01	-0.534	2.44	-1.094	0.51			0.066	0.45			0.006	0.66	-0.309	1.05
HUT	0.052	2.89	-0.359	2.76	-0.579	3.54	-1.139	2.62			0.021	2.61			-0.039	2.65	-0.353	2.77
OMH	0.219	2.23	-0.193	2.06	-0.412	3.03	-0.972	1.87			0.188	1.85			0.128	1.92	-0.187	2.08
SMU	0.079	1.38	-0.333	1.09	-0.553	2.48	-1.113	0.65			0.048	0.59			-0.013	0.77	-0.327	1.12
NMi	0.122	1.39	-0.289	1.10	-0.509	2.48	-1.069	0.67			0.091	0.62			0.031	0.78	-0.284	1.14
NIST	-0.010	2.18	-0.422	2.00	-0.642	2.99	-1.202	1.81			-0.041	1.79			-0.102	1.85	-0.416	2.03
NMIJ			-0.412	1.59	-0.631	2.74	-1.191	1.33			-0.031	1.31			-0.091	1.40	-0.406	1.62
VNIIOFI	0.412	1.59			-0.220	2.60	-0.780	1.02			0.380	0.99			0.320	1.11	0.006	1.38
CSIR	0.631	2.74	0.220	2.60			-0.560	2.45			0.600	2.44			0.540	2.48	0.226	2.62
BNM/INM	1.191	1.33	0.780	1.02	0.560	2.45					1.160	0.48			1.100	0.68	0.786	1.07
MSL																		
PTB	0.031	1.31	-0.380	0.99	-0.600	2.44	-1.160	0.48							-0.060	0.63	-0.375	1.03
IEN																		
KRISS	0.091	1.40	-0.320	1.11	-0.540	2.48	-1.100	0.68			0.060	0.63					-0.314	1.14
BIPM	0.406	1.62	-0.006	1.38	-0.226	2.62	-0.786	1.07			0.375	1.03			0.314	1.14		

CCPR-K2.b Spectral responsivity λ = 1000 nm

Degrees of equivalence: D_i and expanded uncertainty U_i (k = 2)