BUREAU INTERNATIONAL DES POIDS ET MESURES

Key comparison CCTF-K001.UTC - Results
Degrees of equivalence D_k = **[*UTC* - *UTC*(*k*)]** for October 2024
Computed 2024 NOVEMBER 13, 14h UTC

Coordinated Universal Time **UTC** and its local realizations **UTC(*k*)** in National Metrology Institutes and Designated Institutes.
Computed values of **[*UTC* - *UTC*(*k*)]** and uncertainties valid for the period of this publication

Date 2024 0h UTC	OCT 1	OCT 6	OCT 11	OCT 16	OCT 21	OCT 26	OCT 31	Uncertainty/ns			
MJD	60584	60589	60594	60599	60604	60609	60614				
Laboratory *k*	**[*UTC* - *UTC*(*k*)]**/ns							U_a	U_b	U_k	
BelGIM	-4.6	-3.4	-4.6	-4.2	-3.5	-2.6	-3.1	3.0	6.0	6.6	
BEV	-21.8	-5.2	0.2	14.3	18.9	31.1	33.7	0.6	5.8	5.8	
BFKH	12157.9	12202.0	12244.4	12298.3	12343.8	12387.8	12428.6	3.0	14.4	14.8	
BIM	1933.4	1981.6	2020.7	2067.5	2117.7	2162.3	2208.6	0.6	5.2	5.2	
BMM	2189.3	2218.4	2231.2	2255.1	2284.0	2301.2	2324.3	0.6	5.6	5.6	
BSJ	22.5	26.1	25.1	4.7	19.9	11.1	15.5	14.0	14.0	19.8	
CENAM	-3.5	-6.4	-5.0	-7.1	-4.8	-3.5	-4.8	6.0	8.6	10.4	
CENAMAP AIP	-0.5	2.7	-5.4	-0.5	2.0	0.6	-6.5	0.6	11.0	11.0	
DEF-NAT	-5309.6	-5395.1	-5497.4	-5599.4	-5674.5	-5758.7	-5859.8	1.4	5.2	5.4	
DFM	4.3	4.8	5.4	6.3	5.4	-	-	0.6	5.4	5.4	
DZM	70.1	80.1	78.5	77.0	74.2	74.7	73.7	0.6	5.2	5.2	
EMI	-	-	-	-	-	-	-				
ESA	2.5	3.4	3.4	2.9	2.2	1.9	1.7	0.6	5.4	5.4	
FTMC	541.7	555.0	561.1	572.4	574.8	584.1	585.2	0.6	5.2	5.2	
GUM	1.5	0.9	-0.1	-0.2	-0.4	-1.2	-1.9	1.0	2.0	2.2	
IBMETRO	379.3	387.9	396.2	399.7	404.7	399.4	412.8	8.0	15.2	17.2	
ILNAS	6.9	11.5	10.3	6.8	9.4	6.8	-6.4	0.6	5.2	5.2	
IMBIH	7.3	0.2	2.3	-0.2	1.0	0.5	1.3	0.6	5.6	5.6	
INACAL	0.1	-9.0	-7.4	78.0	50.2	52.7	61.3	10.0	NC	-	(*)
INM	493.2	-	492.7	489.0	491.0	491.8	485.2	0.8	15.6	15.6	
INM(CO)	-13.9	-24.8	-13.2	-21.3	-12.8	-20.6	-18.7	6.0	NC	-	(*)
INMETRO	-3.3	-3.2	5.3	-13.8	-4.1	-5.4	-0.5	0.6	6.4	6.4	
INPL	-20.6	-27.0	-19.6	-22.8	-25.1	-20.5	-15.9	0.6	15.2	15.2	
INRIM	-2.9	-3.0	-3.1	-2.2	-	1.4	-0.5	1.0	2.0	2.2	
INTI	193.5	206.2	214.0	204.7	195.2	191.5	185.8	0.6	6.4	6.4	
IPE/ASCR	30.8	23.9	22.6	23.2	19.9	25.3	20.1	0.6	5.8	5.8	
IPQ	1523.6	-	1528.1	1532.3	1541.8	1549.3	1554.2	1.0	5.8	5.8	

JV	0.1	0.6	1.7	0.3	-0.8	-1.5	-2.6	0.8	9.6	9.6	
KazStandard	-2.7	-3.3	-3.9	-2.8	-1.6	-1.1	-0.5	1.4	8.4	8.6	
KRISS	4.8	4.2	2.1	0.7	1.3	-0.7	-0.4	0.6	5.8	5.8	
LAMETRO-ICE	68.4	53.3	53.5	42.3	41.3	50.8	39.8	0.6	14.0	14.0	
LNE-SYRTE	0.8	0.7	0.4	0.4	0.6	0.5	0.7	0.4	2.0	2.0	
MASM	-16.0	-121.9	-222.0	-319.4	-424.1	-546.3	-633.1	0.6	7.0	7.0	
METAS	-4.1	-4.1	-3.8	-2.7	-1.8	-0.2	1.2	1.0	2.0	2.2	
MIKES	-4.7	-5.6	-5.3	-5.1	-6.4	-6.9	-6.9	0.6	5.2	5.2	
MIRS/SIQ/Metrology	560.8	578.2	602.3	618.3	636.8	662.1	681.2	0.6	8.0	8.0	
MSL	-9.6	-3.0	-12.6	-20.2	-8.2	-10.4	0.1	1.4	5.8	6.0	
NICT	-4.1	-3.8	-3.4	-3.7	-3.5	-3.0	-2.4	0.4	3.6	3.6	
NIM	-0.1	-0.1	0.2	0.3	0.2	0.3	0.1	0.4	3.6	3.6	
NIMT	25.0	15.0	16.4	32.8	40.9	37.2	29.8	0.6	5.8	5.8	
NIS	7.6	3.6	1.5	4.7	4.4	12.7	5.9	1.4	14.4	14.4	
NIST	-1.6	-2.0	-2.6	-2.2	-0.8	0.0	1.3	1.0	4.0	4.2	
NMC, A*STAR	4.1	-3.4	0.5	1.0	-0.1	-2.3	-4.3	0.6	5.2	5.2	
NMIA	-27.9	-19.5	-5.8	-12.2	9.2	17.5	17.6	0.6	5.8	5.8	
NMIJ AIST	-79.0	-81.5	-65.2	-64.8	-53.0	-32.2	-29.6	0.6	5.6	5.6	
NMIM	7.7	19.6	35.5	45.6	51.6	54.0	61.9	0.6	5.2	5.2	
NMISA	-5.2	-12.6	-12.1	-4.8	-1.0	-5.7	-8.0	3.0	7.0	7.6	
NPL	3.2	2.9	2.5	3.2	2.2	2.4	2.9	0.6	2.0	2.0	
NPLI	0.1	-0.1	-0.5	-0.4	-0.8	-1.0	-0.9	0.4	5.2	5.2	
NRC	-0.1	-0.1	-0.6	-0.5	-0.8	-0.8	-0.7	0.6	5.2	5.2	
NSAI NML	-12.2	-25.2	-43.8	-53.4	-59.1	-73.4	-95.9	0.6	14.6	14.6	
NSC IM	-9.7	5.6	-11.1	-13.1	-2.2	-4.9	-4.1	6.0	14.8	16.0	
ON/DSHO	-2.0	-1.8	0.3	-4.3	0.7	-3.2	-3.8	1.4	6.2	6.4	
PTB	-0.9	-0.9	-1.1	-0.9	-1.0	-1.1	-1.0	0.4	2.0	2.0	
RISE	0.0	-0.1	-0.5	-0.6	-0.8	-1.2	-1.4	0.4	2.0	2.0	
ROA	-3.3	-3.8	-3.3	-3.9	-4.4	-4.0	-4.2	0.6	2.0	2.0	
SASO-NMCC	5.3	11.6	15.3	22.2	23.6	28.4	41.7	1.4	7.6	7.8	
SCL	4.1	5.5	0.6	-6.3	-9.6	-9.2	-10.5	0.6	7.2	7.2	
SMD	-0.3	0.3	0.8	1.6	0.5	-0.2	-0.1	0.6	7.6	7.6	
SMU	472.4	376.9	208.3	138.7	76.1	-36.2	-93.5	1.4	NC	-	(*)
SNSU-BSN	-368.0	-369.7	-396.1	-396.5	-417.7	-430.0	-446.5	0.6	NC	-	(*)
TL	1.3	2.1	1.8	2.0	1.9	1.7	1.7	0.6	3.4	3.4	
UME	-1.3	-1.5	-0.9	-2.3	-2.3	0.1	-1.9	0.6	7.8	7.8	
UzNIM	55.1	36.8	19.3	2.6	-11.0	-25.1	-36.7	0.6	14.2	14.2	
VMI-STAMEQ	-17.8	-15.9	-7.8	6.7	-8.3	-35.8	-28.8	1.4	5.8	6.0	
VNIIFTRI	-1.4	-1.3	-1.3	-1.7	-1.7	-1.6	-1.5	0.8	4.0	4.0	
VSL	1.1	-0.3	5.0	2.1	4.2	5.1	-0.1	0.6	2.2	2.2	
ZMDM	-5.6	-0.9	-5.1	-4.4	-3.3	-3.4	-10.1	0.6	7.8	7.8	

(*) $\boldsymbol{U_a}$ expanded uncertainty guarantees only the traceability in frequency