

T₄ 準確性 (Accuracy) 測試統計結果報告

送檢批號：AQ2012-07

調查期間：2012 年 06 月 25 ~ 27 日

參加單位數：22

檢驗單位代碼	方法代碼	試劑代碼	檢驗結果 (ug/dL)	Accuracy ¹	Relative Uncertainty ²
RH01a	4	9	10.7	113.8%	4.4%
RH01b	2	5	9.0	95.7%	7.0%
RH02a	2	3	11.5	122.3%	19.0%
RH02c	4	9	9.6	102.1%	11.2%
RH06	4	9	10.4	110.6%	5.2%
RH07a	4	2	8.3	88.3%	3.5%
RH07b	2	3	9.9	105.3%	14.3%
RH12	4	2	9.7	103.2%	7.2%
RH14	2	8	8.3	88.3%	0.0%
RH15	2	8	9.1	96.8%	8.8%
RH19	4	2	7.9	84.0%	9.4%
RH20	4	7	9.6	102.1%	4.2%
CL005	4	9	9.9	105.3%	10.1%
CL006a	4	7	9.6	102.1%	8.1%
CL008	4	1	8.7	92.6%	3.9%
CL009	2	4	9.0	95.7%	5.8%
CL010	2	8	7.9	84.0%	3.3%
CL011	4	9	10.9	116.0%	9.1%
CL012	2	8	7.8	83.0%	4.4%
CL013	4	13	11.5	122.3%	4.4%
CL014a	2	8	8.6	91.5%	27.4%
CL015	2	5	9.1	96.8%	6.6%
Median of RIA Peer Group (方法 2, n = 10)			9.0	95.7%	-
Mean of RIA Peer Group (方法 2, n = 10)			9.0	95.9%	-
Median of CLIA Peer Group (方法 4, n = 12)			9.7	102.7%	-
Mean of CLA Peer Group (方法 4, n = 12)			9.7	103.5%	-
Median of Total Labs (n = 11)			9.4	99.5%	-
Mean of Total Labs (n = 11)			9.4	100.1%	-
目標值 (Target Value)*			9.4	-	-
不確定性 (Expanded Uncertainty)*			0.1	-	-

1. Accuracy = Your Result / Target Value

2. Estimated from the within-laboratory reproducibility of each laboratory reported in survey CHT2012 T₄.
 < http://cht.qap.tw/Reproducibility_T4_CHT2012-02.pdf >

*The certified **Target Value** of thyroxine in serum was determined using isotope dilution mass spectrometry (IDMS) reference method by an international certified reference laboratory.

The reference laboratory is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates.

The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k. At a t-distribution with v(eff) effective degrees of freedom the value of the measurand lies within the assigned range of values with a probability of 95 %.

Target Value: 120.9 nmol/l (9.4 ug/dL)

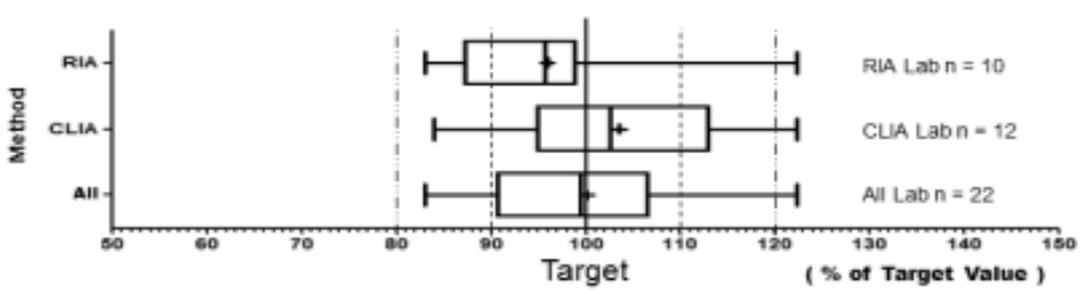
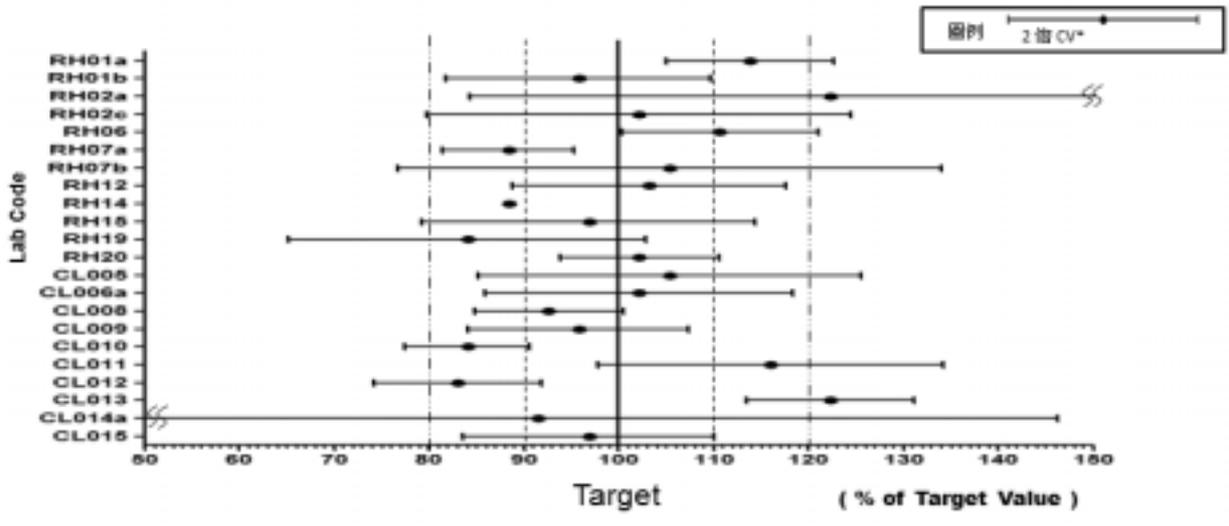
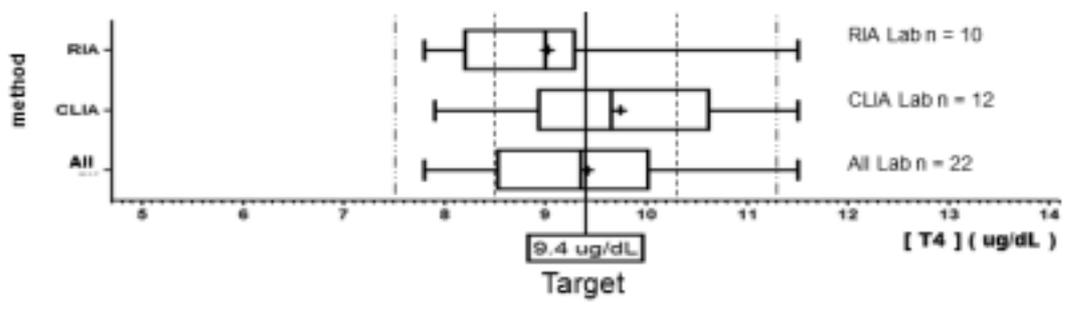
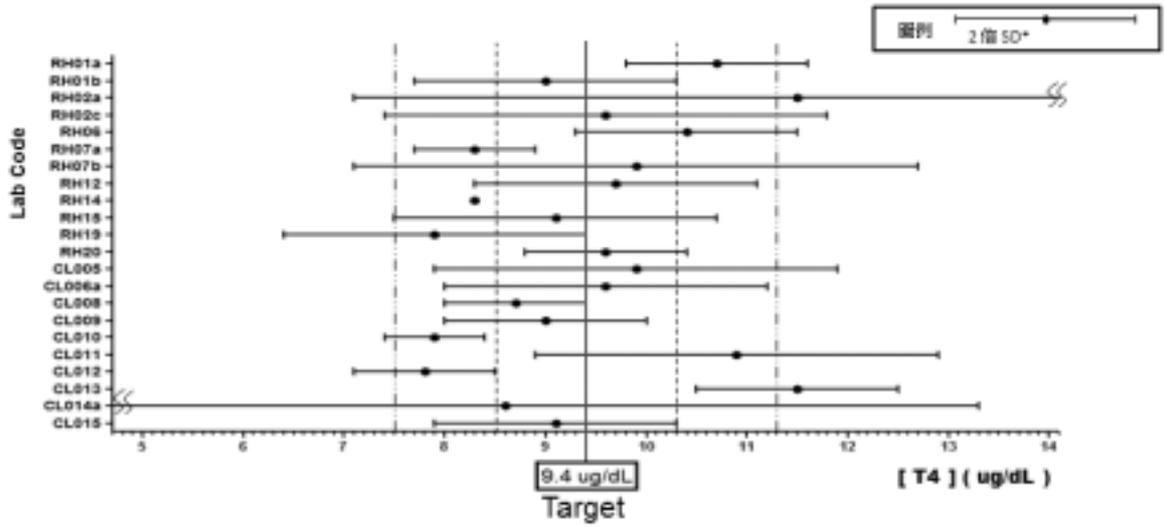
Expanded uncertainty: 1.2 nmol/l (0.1 ug/dL)

Relative expanded uncertainty: 1.0 %

Coverate factor k: 2.3

Effective degrees of freedom v(eff): 8

T₄ 準確性 (Accuracy) 測試統計圖



* Estimated SD = CV x [T₄], 實驗室內實驗間 (within-lab run to run) 變異性推估數據來自 CHT212-02 T₄ 再現性結果 < http://cht.qap.tw/Reproducibility_T4_CHT2012-02.pdf >

T₃ 準確性 (Accuracy) 測試統計結果報告

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檢驗單位代碼	方法代碼	試劑代碼	檢驗結果 (ug/dL)	Accuracy ¹	Relative Uncertainty ²
RH01a	4	9	126	91.3%	11.2%
RH01b	2	5	143	103.6%	3.1%
RH02a	2	5	161	116.7%	3.8%
RH02c	4	9	135	97.8%	8.6%
RH06	4	9	128	92.8%	1.5%
RH07a	4	2	140	101.4%	7.1%
RH07b	2	3	125	90.6%	7.8%
RH12	4	2	162	117.4%	8.5%
RH14	2	8	134	97.1%	1.6%
RH15	2	8	122	88.4%	7.8%
RH19	4	2	154	111.6%	0.6%
RH20	4	7	166	120.3%	4.1%
CL005	4	9	127	92.0%	3.1%
CL006a	4	1	141	102.2%	0.7%
CL008	4	1	136	98.6%	4.3%
CL009	2	5	134	97.1%	17.8%
CL010	2	8	141	102.2%	11.1%
CL011	4	9	125	90.6%	6.3%
CL012	2	8	122	88.4%	5.3%
CL013	2	5	160	115.9%	26.9%
CL014a	2	3	133	96.4%	18.1%
CL015	2	5	150	108.7%	15.5%
Median of RIA Peer Group (方法 2, n = 11)			134	97.1%	-
Mean of RIA Peer Group (方法 2, n = 11)			139	100.5%	-
Median of CLIA Peer Group (方法 4, n = 11)			136	98.6%	-
Mean of CLA Peer Group (方法 4, n = 11)			140	101.5%	-
Median of Total Labs (n = 11)			136	98.2%	-
Mean of Total Labs (n = 11)			139	101.0%	-
目標值 (Target Value)*			138	-	-
不確定性 (Expanded Uncertainty)*			1.4	-	-

1. Accuracy = Your Result / Target Value

2. Estimated from the within-laboratory reproducibility of each laboratory reported in survey CHT2012 T₃.
< http://cht.qap.tw/Reproducibility_T3_CHT2012-02.pdf >

*The certified **Target Value** of triiodothyronine in serum was determined using isotope dilution mass spectrometry (IDMS) reference method by an international certified reference laboratory.

The reference laboratory is signatory to the multilateral agreements of the European co-operation for Accreditation (EA) and of the International Laboratory Accreditation Cooperation (ILAC) for the mutual recognition of calibration certificates.

The uncertainty stated is the expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k. At a t-distribution with v(eff) effective degrees of freedom the value of the measurand lies within the assigned range of values with a probability of 95 %.

Target Value: 2.127 nmol/l (138 ug/dL)

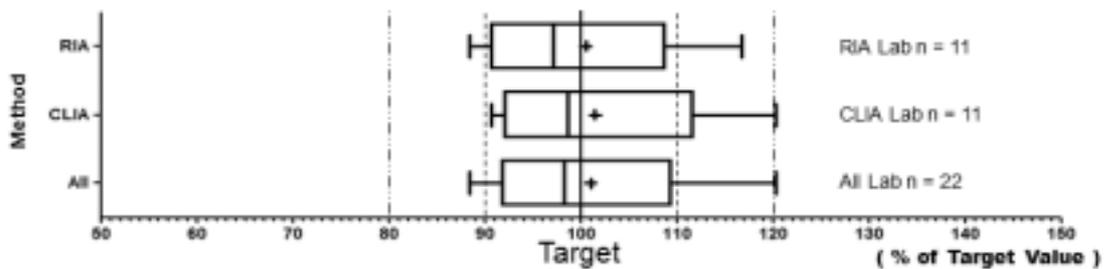
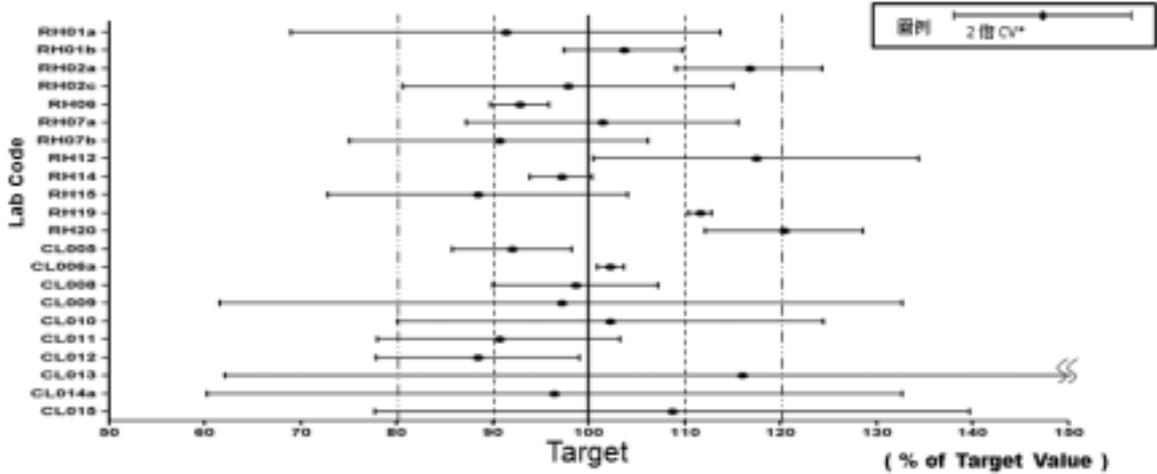
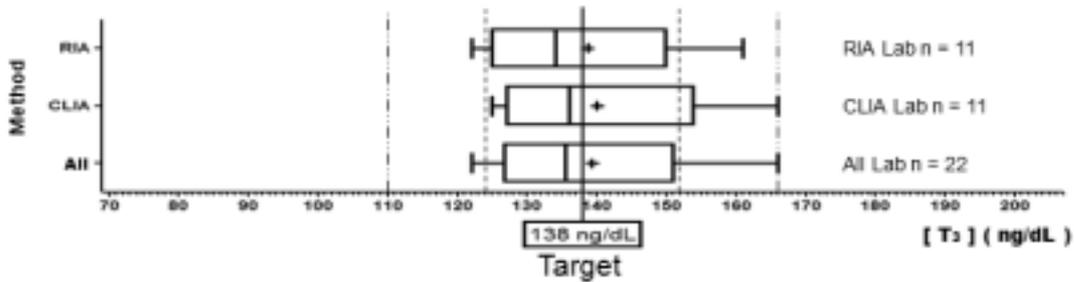
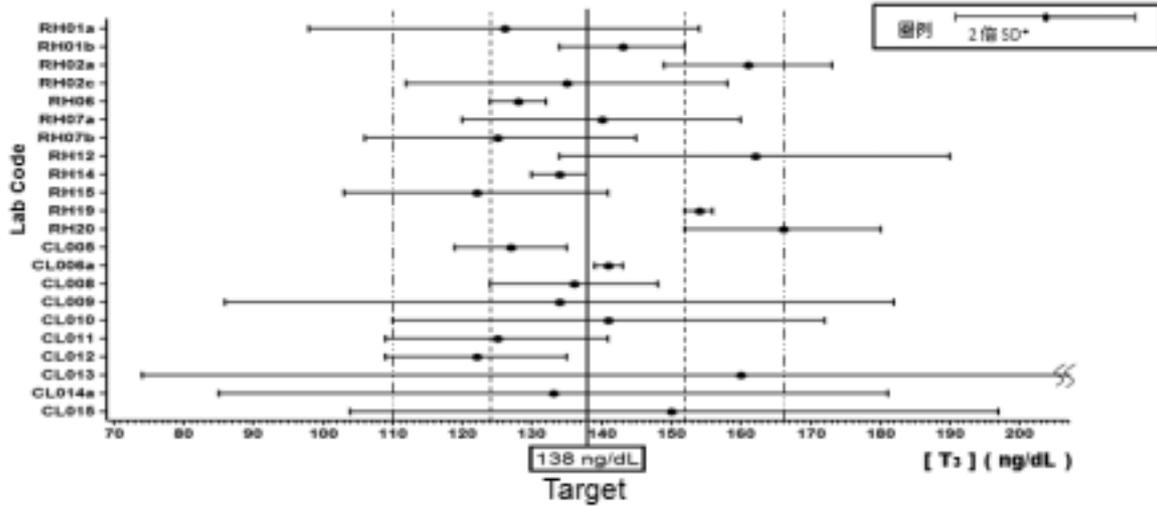
Expanded uncertainty: 0.021 nmol/l (1.4 ug/dL)

Relative expanded uncertainty: 1.0 %

Coverate factor k: 2.4

Effective degrees of freedom v(eff): 7

T₃ 準確性 (Accuracy) 測試統計圖



* Estimated SD = CV x [T₃], 實驗室內實驗間 (within-lab run to run) 變異性推估數據來自 CHT212-02 T₃ 再現性結果 < http://cht.qap.tw/Reproducibility_T3_CHT2012-02.pdf >