Temperature Calibration Report for (q)PCR

General information

Calibration number:	3779-0007
Calibration date:	17-Aug-2019
Start time	14:56
End time	15:08

Device information

Device name:	聚合酶链反应分析仪
Manufacturer:	Applied Biosystems
Type:	7900HT Real-Time PCR System
Serial No.:	200811JG0003
Block type:	96 x 0.2mlStandard
Block position:	Single
Block serial No.:	279002044

Probe information

Serial:	140408-03
Probe:	Driftcon PLATA 96v-15
Calibration Date:	14-Apr-2014
Uncertainty:	0.25℃（k=2)

User information

Name:	北京林电伟业电子技术有限公司
Address:	北京市海淀区蓝靛厂南路 25 号，嘉友国际大厦 803 房间

Porcessing

Step 1:	30.0℃	Hold 60 seconds
Step 2:	95.0℃	Hold 60 seconds
Step 3:	30.0℃	Hold 60 seconds
Step 4:	90.0℃	Hold 60 seconds
Step 5:	50.0℃	Hold 60 seconds
Step 6:	70.0℃	Hold 60 seconds
Step 7:	60.0℃	Hold 60 seconds
Step 8:	30.0℃	Hold 60 seconds

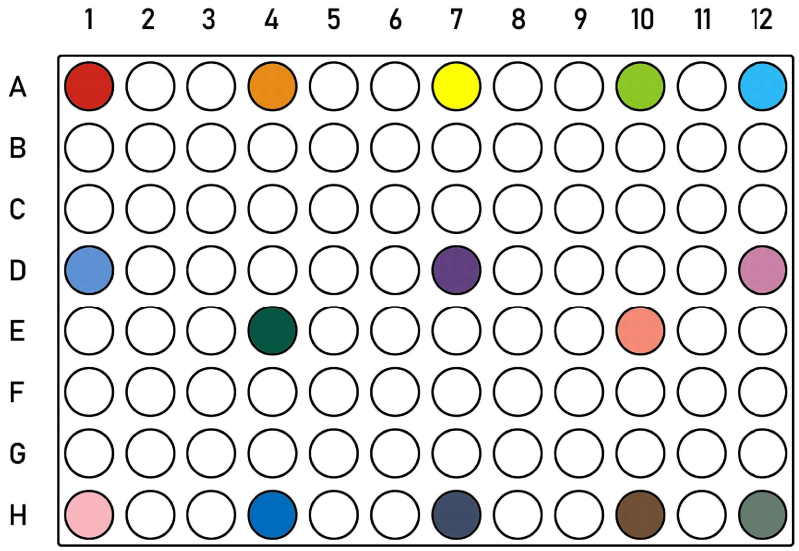
Software information

Report created:	20.1.0.0
Report printed:	20.1.0.0
Analysis engine:	20-Dec-2013
Measurement engine	25-Mar-2014
Definitions	22-May-2014

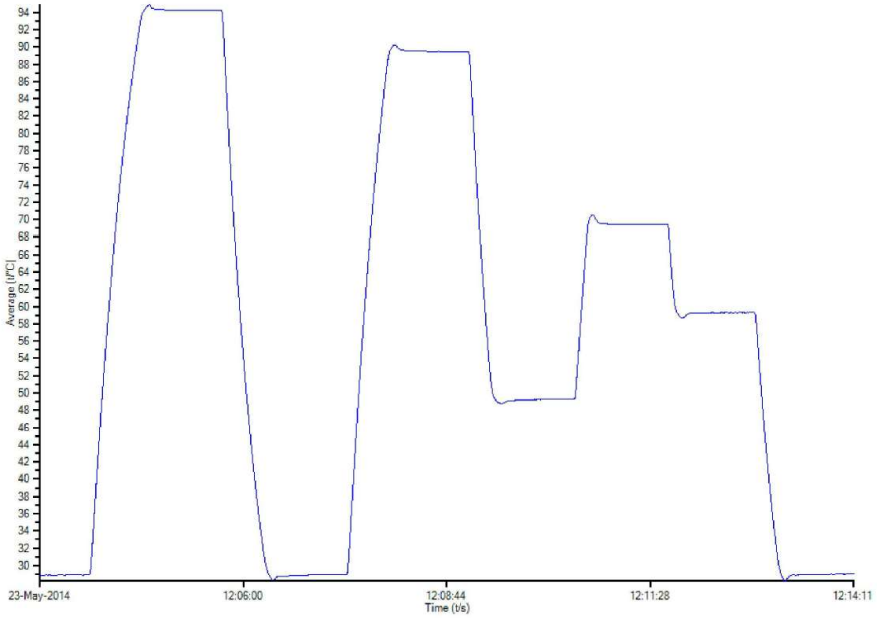
Chanel information

Ch 1	A1	1128 Data	100%
Ch 2	A4	1128 Data	100%
Ch 3	A7	1128 Data	100%
Ch 4	A10	1128 Data	100%
Ch 5	A12	1128 Data	100%
Ch 6	D4	1128 Data	100%
Ch 7	D10	1128 Data	100%
Ch 8	E1	1128 Data	100%
Ch 9	E7	1128 Data	100%
Ch 10	E12	1128 Data	100%
Ch 11	H1	1128 Data	100%
Ch 12	H4	1128 Data	100%
Ch 13	H7	1128 Data	100%
Ch 14	H10	1128 Data	100%
Ch 15	H12	1128 Data	100%

Probe layout



Curve



Temperature: 95.0°C
Plateau start: 10:58:27 (sample170)

Values after 30 seconds

			Measured		Deviation (t_{90}-t)
	Ch 1	A1	93.85℃	-	-1.15℃
	Ch 2	A4	94.20℃		-0.80℃
	Ch 3	A7	94.03℃		-0.97℃
	Ch 4	A10	94.07℃		-0.93℃
	Ch 5	A12	94.48℃		-0.52℃
	Ch 6	D4	94.27℃		-0.73℃
	Ch 7	D10	94.20℃		-0.80℃
	Ch 8	E1	94.50℃		-0.50℃
	Ch 9	E7	94.23℃		-0.77℃
	Ch 10	E12	94.21℃		-0.79℃
	Ch 11	H1	94.61℃	+	-0.39℃
	Ch 12	H4	94.47℃		-0.53℃
	Ch 13	H7	94.13℃		-0.87℃
	Ch 14	H10	94.47℃		-0.53℃
	Ch 15	H12	94.32℃		-0.68℃

Step results (n < 50)

Heat rate: 2.12°C/s
Heat rate (50-90°C): 2.11°C/s
Hold time: 71s
Max.overshoot: 103.55°C
Avg.overshoot: 101.54°C
Avg.heated lid: 103.20°C

Accuracy results(n < 50)

15s: 95.62°C
10-20s: 95.40°C
30s: 95.34°C
25-35s: 95.30°C

Accuracy results(n < 50)

15s: 1.13°C
10-20s: 1.35°C
30s: 0.76°C
25-35s: 0.99°C

Temperature: 30.0°C
Plateau start: 10:58:27 (sample170)

Values after 30 seconds

			Measured		Deviation (t_{90}-t)
	Ch 1	A1	28.85℃	-	-1.15℃
	Ch 2	A4	29.20℃		-0.80℃
	Ch 3	A7	29.03℃		-0.97℃
	Ch 4	A10	29.07℃		-0.93℃
	Ch 5	A12	29.48℃		-0.52℃
	Ch 6	D4	29.27℃		-0.73℃
	Ch 7	D10	29.20℃		-0.80℃
	Ch 8	E1	29.50℃		-0.50℃
	Ch 9	E7	29.23℃		-0.77℃
	Ch 10	E12	29.21℃		-0.79℃
	Ch 11	H1	29.61℃	+	-0.39℃
	Ch 12	H4	29.47℃		-0.53℃
	Ch 13	H7	29.13℃		-0.87℃
	Ch 14	H10	29.47℃		-0.53℃
	Ch 15	H12	29.32℃		-0.68℃

Step results (n < 50)

Cool rate: 2.12°C/s
Cool rate (90-50°C): 2.11°C/s
Hold time: 69s
Max.undershoot: 27.81°C
Avg. undershoot: 28.29°C
Avg. heated lid: 106.19°C

Accuracy results(n < 50)

15s: 30.62°C
10-20s: 30.40°C
30s: 30.34°C
25-35s: 30.30°C

Accuracy results(n < 50)

15s: 1.13°C
10-20s: 1.35°C
30s: 0.76°C
25-35s: 0.99°C

Temperature: 90.0°C
Plateau start: 10:58:27 (sample170)

Values after 30 seconds

			Measured		Deviation (t_{90}-t)
	Ch 1	A1	88.85℃	-	-1.15℃
	Ch 2	A4	89.20℃		-0.80℃
	Ch 3	A7	89.03℃		-0.97℃
	Ch 4	A10	89.07℃		-0.93℃
	Ch 5	A12	89.48℃		-0.52℃
	Ch 6	D4	89.27℃		-0.73℃
	Ch 7	D10	89.20℃		-0.80℃
	Ch 8	E1	89.50℃		-0.50℃
	Ch 9	E7	89.23℃		-0.77℃
	Ch 10	E12	89.21℃		-0.79℃
	Ch 11	H1	89.61℃	+	-0.39℃
	Ch 12	H4	89.47℃		-0.53℃
	Ch 13	H7	89.13℃		-0.87℃
	Ch 14	H10	89.47℃		-0.53℃
	Ch 15	H12	89.32℃		-0.68℃

Step results (n < 50)

Hold time: 69s
Max.overshoot: 90.86°C
Avg. overshoot: 90.24°C
Avg. heated lid: 106.19°C

Accuracy results(n < 50)

15s: 90.62°C
10-20s: 90.40°C
30s: 90.34°C
25-35s: 90.30°C

Accuracy results(n < 50)

15s: 1.13°C
10-20s: 1.35°C
30s: 0.76°C
25-35s: 0.99°C

Temperature: 50.0°C
Plateau start: 10:58:27 (sample170)

Values after 30 seconds

			Measured		Deviation (t_{90}-t)
	Ch 1	A1	48.85℃	-	-1.15℃
	Ch 2	A4	49.20℃		-0.80℃
	Ch 3	A7	49.03℃		-0.97℃
	Ch 4	A10	49.07℃		-0.93℃
	Ch 5	A12	49.48℃		-0.52℃
	Ch 6	D4	49.27℃		-0.73℃
	Ch 7	D10	49.20℃		-0.80℃
	Ch 8	E1	49.50℃		-0.50℃
	Ch 9	E7	49.23℃		-0.77℃
	Ch 10	E12	49.21℃		-0.79℃
	Ch 11	H1	49.61℃	+	-0.39℃
	Ch 12	H4	49.47℃		-0.53℃
	Ch 13	H7	49.13℃		-0.87℃
	Ch 14	H10	49.47℃		-0.53℃
	Ch 15	H12	49.32℃		-0.68℃

Step results (n < 50)

Hold time: 69s
Max.undershoot: 48.17°C
Avg. undershoot: 48.92°C
Avg. heated lid: 106.19°C

Accuracy results(n < 50)

15s: 49.09°C
10-20s: 49.05°C
30s: 49.20°C
25-35s: 49.20°C

Accuracy results(n < 50)

15s: 1.13°C
10-20s: 1.35°C
30s: 0.76°C
25-35s: 0.99°C

Temperature: 70.0°C
Plateau start: 10:58:27 (sample170)

Values after 30 seconds

			Measured		Deviation (t_{90}-t)
	Ch 1	A1	68.85℃	-	-1.15℃
	Ch 2	A4	69.20℃		-0.80℃
	Ch 3	A7	69.03℃		-0.97℃
	Ch 4	A10	69.07℃		-0.93℃
	Ch 5	A12	69.48℃		-0.52℃
	Ch 6	D4	69.27℃		-0.73℃
	Ch 7	D10	69.20℃		-0.80℃
	Ch 8	E1	69.50℃		-0.50℃
	Ch 9	E7	69.23℃		-0.77℃
	Ch 10	E12	69.21℃		-0.79℃
	Ch 11	H1	69.61℃	+	-0.39℃
	Ch 12	H4	69.47℃		-0.53℃
	Ch 13	H7	69.13℃		-0.87℃
	Ch 14	H10	69.47℃		-0.53℃
	Ch 15	H12	69.32℃		-0.68℃

Step results (n < 50)

Hold time: 69s
Max.overshoot: 68.17°C
Avg. overshoot: 68.92°C
Avg. heated lid: 106.19°C

Accuracy results(n < 50)

15s: 69.09°C
10-20s: 69.05°C
30s: 69.20°C
25-35s: 69.20°C

Accuracy results(n < 50)

15s: 1.13°C
10-20s: 1.35°C
30s: 0.76°C
25-35s: 0.99°C

Temperature: 60.0°C
Plateau start: 10:58:27 (sample170)

Values after 30 seconds

			Measured		Deviation (t_{90}-t)
	Ch 1	A1	58.85℃	-	-1.15℃
	Ch 2	A4	59.20℃		-0.80℃
	Ch 3	A7	59.03℃		-0.97℃
	Ch 4	A10	59.07℃		-0.93℃
	Ch 5	A12	59.48℃		-0.52℃
	Ch 6	D4	59.27℃		-0.73℃
	Ch 7	D10	59.20℃		-0.80℃
	Ch 8	E1	59.50℃		-0.50℃
	Ch 9	E7	59.23℃		-0.77℃
	Ch 10	E12	59.21℃		-0.79℃
	Ch 11	H1	59.61℃	+	-0.39℃
	Ch 12	H4	59.47℃		-0.53℃
	Ch 13	H7	59.13℃		-0.87℃
	Ch 14	H10	59.47℃		-0.53℃
	Ch 15	H12	59.32℃		-0.68℃

Step results (n < 50)

Hold time: 69s
Max.overshoot: 58.17°C
Avg. overshoot: 58.92°C
Avg. heated lid: 106.19°C

Accuracy results(n < 50)

15s: 59.09°C
10-20s: 59.05°C
30s: 59.20°C
25-35s: 59.20°C

Accuracy results(n < 50)

15s: 1.13°C
10-20s: 1.35°C
30s: 0.76°C
25-35s: 0.99°C