

**TSP 3245A calibration and adjustment 2022-07-15 00-40-26**

channel A  
 cal type DCV  
 actual run time 0.00:32:17  
 min temperature 38  
 max temperature 38.2  
 temperature variation 0.2  
 min line frequency 59.97  
 max line frequency 60.02  
 line frequency variation 0.0562962  
 auto zero TRUE  
 reference xDevs.com HP3458A/LN

**As received performance results DCV**

# high res tests 10  
 # low res tests 35  
 # high res passes 10  
 # low res passes 35  
 # errors 0  
 % high res tests 100  
 % low res tests 100  
 passed high res tests? TRUE  
 passed low res tests? TRUE  
 passed all tests? TRUE  
 % high res headroom 73.4  
 % low res headroom 84.6  
 % all headroom 82.1

cal type	test #	resolution	range	targetValue	target accuracy (V)	result	err?	error (V)	is within range	headroom (%)
DCV	1	HIGH	1.00000	1.2500000	8.4000E-05	1.2499504	0	-4.96E-05	TRUE	41
DCV	2	HIGH	1.00000	0.6250000	5.7000E-05	0.6249666	0	-3.34E-05	TRUE	41
DCV	3	HIGH	1.00000	0.0000000	3.1000E-05	-0.0000179	0	-1.79E-05	TRUE	42
DCV	4	HIGH	1.00000	-0.6250000	5.7000E-05	-0.6250012	0	-1.18E-06	TRUE	98
DCV	5	HIGH	1.00000	-1.2500000	8.4000E-05	-1.2499863	0	1.37E-05	TRUE	84
DCV	6	HIGH	10.00000	10.2500000	5.7000E-04	10.2498652	0	-1.35E-04	TRUE	76
DCV	7	HIGH	10.00000	5.1250000	3.7500E-04	5.1249327	0	-6.73E-05	TRUE	82
DCV	8	HIGH	10.00000	0.0000000	1.8000E-04	-0.0000165	0	-1.65E-05	TRUE	91
DCV	9	HIGH	10.00000	-5.1250000	3.7500E-04	-5.1249699	0	3.01E-05	TRUE	92
DCV	10	HIGH	10.00000	-10.2500000	5.7000E-04	-10.2499248	0	7.52E-05	TRUE	87
DCV	11	LOW	0.15625	0.1562500	1.0000E-03	0.1564477	0	1.98E-04	TRUE	80
DCV	12	LOW	0.15625	0.0781300	8.6000E-04	0.0782665	0	1.37E-04	TRUE	84
DCV	13	LOW	0.15625	0.0000000	7.3000E-04	0.0000966	0	9.66E-05	TRUE	87
DCV	14	LOW	0.15625	-0.0781300	8.6000E-04	-0.0780566	0	7.34E-05	TRUE	91
DCV	15	LOW	0.15625	-0.1562500	1.0000E-03	-0.1561593	0	9.07E-05	TRUE	91
DCV	16	LOW	0.31250	0.3125000	1.8300E-03	0.3130059	0	5.06E-04	TRUE	72
DCV	17	LOW	0.31250	0.1562500	1.5700E-03	0.1566124	0	3.62E-04	TRUE	77
DCV	18	LOW	0.31250	0.0000000	1.3000E-03	0.0002456	0	2.46E-04	TRUE	81
DCV	19	LOW	0.31250	-0.1562500	1.5700E-03	-0.1560858	0	1.64E-04	TRUE	90
DCV	20	LOW	0.31250	-0.3125000	1.8300E-03	-0.3123155	0	1.85E-04	TRUE	90
DCV	21	LOW	0.62500	0.6250000	3.5600E-03	0.6260639	0	1.06E-03	TRUE	70
DCV	22	LOW	0.62500	0.3125000	3.0300E-03	0.3132269	0	7.27E-04	TRUE	76
DCV	23	LOW	0.62500	0.0000000	2.5000E-03	0.0004358	0	4.36E-04	TRUE	83
DCV	24	LOW	0.62500	-0.3125000	3.0300E-03	-0.3122792	0	2.21E-04	TRUE	93
DCV	25	LOW	0.62500	-0.6250000	3.5600E-03	-0.6247931	0	2.07E-04	TRUE	94
DCV	26	LOW	1.25000	1.2500000	6.7300E-03	1.2518096	0	1.81E-03	TRUE	73
DCV	27	LOW	1.25000	0.6250000	5.6600E-03	0.6262600	0	1.26E-03	TRUE	78
DCV	28	LOW	1.25000	0.0000000	4.6000E-03	0.0007999	0	8.00E-04	TRUE	83
DCV	29	LOW	1.25000	-0.6250000	5.6600E-03	-0.6245116	0	4.88E-04	TRUE	91
DCV	30	LOW	1.25000	-1.2500000	6.7300E-03	-1.2494192	0	5.81E-04	TRUE	91
DCV	31	LOW	2.50000	2.5000000	1.3500E-02	2.5026693	0	2.67E-03	TRUE	80
DCV	32	LOW	2.50000	1.2500000	1.1300E-02	1.2515271	0	1.53E-03	TRUE	86
DCV	33	LOW	2.50000	0.0000000	9.2000E-03	0.0005399	0	5.40E-04	TRUE	94
DCV	34	LOW	2.50000	-1.2500000	1.1300E-02	-1.2501501	0	-1.50E-04	TRUE	99
DCV	35	LOW	2.50000	-2.5000000	1.3500E-02	-2.5000474	0	-4.74E-05	TRUE	100
DCV	36	LOW	5.00000	5.0000000	2.8000E-02	5.0083082	0	8.31E-03	TRUE	70
DCV	37	LOW	5.00000	2.5000000	2.4000E-02	2.5059030	0	5.90E-03	TRUE	75
DCV	38	LOW	5.00000	0.0000000	1.9000E-02	0.0037802	0	3.78E-03	TRUE	80
DCV	39	LOW	5.00000	-2.5000000	2.4000E-02	-2.4977808	0	2.22E-03	TRUE	91
DCV	40	LOW	5.00000	-5.0000000	2.8000E-02	-4.9977328	0	2.27E-03	TRUE	92
DCV	41	LOW	10.00000	10.0000000	5.4000E-02	10.0128031	0	1.28E-02	TRUE	76
DCV	42	LOW	10.00000	5.0000000	4.6000E-02	5.0097546	0	9.75E-03	TRUE	79
DCV	43	LOW	10.00000	0.0000000	3.7000E-02	0.0064545	0	6.45E-03	TRUE	83
DCV	44	LOW	10.00000	-5.0000000	4.6000E-02	-4.9957838	0	4.22E-03	TRUE	91
DCV	45	LOW	10.00000	-10.0000000	5.4000E-02	-9.9948053	0	5.19E-03	TRUE	90

**As Received performance results DCV (sorted by target value)**

cal type	test #	resolution	range	targetValue	target accuracy (V)	result	err?	error (V)	is within range	headroom (%)
DCV	45	LOW	10.00000	-10.0000000	5.4000E-02	-9.9948053	0	5.19E-03	TRUE	90
DCV	40	LOW	5.00000	-5.0000000	2.8000E-02	-4.9977328	0	2.27E-03	TRUE	92
DCV	44	LOW	10.00000	-5.0000000	4.6000E-02	-4.9957838	0	4.22E-03	TRUE	91
DCV	35	LOW	2.50000	-2.5000000	1.3500E-02	-2.5000474	0	-4.74E-05	TRUE	100
DCV	39	LOW	5.00000	-2.5000000	2.4000E-02	-2.4977808	0	2.22E-03	TRUE	91
DCV	30	LOW	1.25000	-1.2500000	6.7300E-03	-1.2494192	0	5.81E-04	TRUE	91
DCV	34	LOW	2.50000	-1.2500000	1.1300E-02	-1.2501501	0	-1.50E-04	TRUE	99
DCV	25	LOW	0.62500	-0.6250000	3.5600E-03	-0.6247931	0	2.07E-04	TRUE	94
DCV	29	LOW	1.25000	-0.6250000	5.6600E-03	-0.6245116	0	4.88E-04	TRUE	91
DCV	20	LOW	0.31250	-0.3125000	1.8300E-03	-0.3123155	0	1.85E-04	TRUE	90
DCV	24	LOW	0.62500	-0.3125000	3.0300E-03	-0.3122792	0	2.21E-04	TRUE	93
DCV	15	LOW	0.15625	-0.1562500	1.0000E-03	-0.1561593	0	9.07E-05	TRUE	91
DCV	19	LOW	0.31250	-0.1562500	1.5700E-03	-0.1560858	0	1.64E-04	TRUE	90
DCV	14	LOW	0.15625	-0.0781300	8.6000E-04	-0.0780566	0	7.34E-05	TRUE	91
DCV	13	LOW	0.15625	0.0000000	7.3000E-04	0.0000966	0	9.66E-05	TRUE	87
DCV	18	LOW	0.31250	0.0000000	1.3000E-03	0.0002456	0	2.46E-04	TRUE	81
DCV	23	LOW	0.62500	0.0000000	2.5000E-03	0.0004358	0	4.36E-04	TRUE	83
DCV	28	LOW	1.25000	0.0000000	4.6000E-03	0.0007999	0	8.00E-04	TRUE	83
DCV	33	LOW	2.50000	0.0000000	9.2000E-03	0.0005399	0	5.40E-04	TRUE	94
DCV	38	LOW	5.00000	0.0000000	1.9000E-02	0.0037802	0	3.78E-03	TRUE	80
DCV	43	LOW	10.00000	0.0000000	3.7000E-02	0.0064545	0	6.45E-03	TRUE	83
DCV	12	LOW	0.15625	0.0781300	8.6000E-04	0.0782665	0	1.37E-04	TRUE	84
DCV	11	LOW	0.15625	0.1562500	1.0000E-03	0.1564477	0	1.98E-04	TRUE	80
DCV	17	LOW	0.31250	0.1562500	1.5700E-03	0.1566124	0	3.62E-04	TRUE	77
DCV	16	LOW	0.31250	0.3125000	1.8300E-03	0.3130059	0	5.06E-04	TRUE	72
DCV	22	LOW	0.62500	0.3125000	3.0300E-03	0.3132269	0	7.27E-04	TRUE	76
DCV	21	LOW	0.62500	0.6250000	3.5600E-03	0.6260639	0	1.06E-03	TRUE	70
DCV	27	LOW	1.25000	0.6250000	5.6600E-03	0.6262600	0	1.26E-03	TRUE	78
DCV	26	LOW	1.25000	1.2500000	6.7300E-03	1.2518096	0	1.81E-03	TRUE	73
DCV	32	LOW	2.50000	1.2500000	1.1300E-02	1.2515271	0	1.53E-03	TRUE	86
DCV	31	LOW	2.50000	2.5000000	1.3500E-02	2.5026693	0	2.67E-03	TRUE	80
DCV	37	LOW	5.00000	2.5000000	2.4000E-02	2.5059030	0	5.90E-03	TRUE	75

DCV	36	LOW	5.00000	5.0000000	2.8000E-02	5.0083082	0	8.31E-03	TRUE	70
DCV	42	LOW	10.00000	5.0000000	4.6000E-02	5.0097546	0	9.75E-03	TRUE	79
DCV	41	LOW	10.00000	10.0000000	5.4000E-02	10.0128031	0	1.28E-02	TRUE	76
DCV	10	HIGH	10.00000	-10.2500000	5.7000E-04	-10.2499248	0	7.52E-05	TRUE	87
DCV	9	HIGH	10.00000	-5.1250000	3.7500E-04	-5.1249699	0	3.01E-05	TRUE	92
DCV	5	HIGH	1.00000	-1.2500000	8.4000E-05	-1.2499863	0	1.37E-05	TRUE	84
DCV	4	HIGH	1.00000	-0.6250000	5.7000E-05	-0.6250012	0	-1.18E-06	TRUE	98
DCV	3	HIGH	1.00000	0.0000000	3.1000E-05	-0.0000179	0	-1.79E-05	TRUE	42
DCV	8	HIGH	10.00000	0.0000000	1.8000E-04	-0.0000165	0	-1.65E-05	TRUE	91
DCV	2	HIGH	1.00000	0.6250000	5.7000E-05	0.6249666	0	-3.34E-05	TRUE	41
DCV	1	HIGH	1.00000	1.2500000	8.4000E-05	1.2499504	0	-4.96E-05	TRUE	41
DCV	7	HIGH	10.00000	5.1250000	3.7500E-04	5.1249327	0	-6.73E-05	TRUE	82
DCV	6	HIGH	10.00000	10.2500000	5.7000E-04	10.2498652	0	-1.35E-04	TRUE	76

As Received pre calibration results DCV

# high res tests	45
# low res tests	0
# high res passes	45
# low res passes	0
# errors	0
% high res tests	100
% low res tests	0
passed high res tests?	TRUE
passed low res tests?	N/A
passed all tests?	TRUE
% high res headroom	52.1
% low res headroom	N/A
% all headroom	52.1

cal type	test #	resolution	range	targetValue	target accuracy (V)	result	err?	error (V)	is within range	headroom (%)
DCV	1	HIGH	auto	0.0000000	3.1000E-05	-0.0000140	0	-1.40E-05	TRUE	55
DCV	2	HIGH	auto	0.0000010	3.1000E-05	-0.0000154	0	-1.64E-05	TRUE	47
DCV	3	HIGH	auto	-0.0000010	3.1000E-05	-0.0000181	0	-1.71E-05	TRUE	45
DCV	4	HIGH	auto	0.0000020	3.1000E-05	-0.0000158	0	-1.78E-05	TRUE	42
DCV	5	HIGH	auto	-0.0000020	3.1000E-05	-0.0000201	0	-1.81E-05	TRUE	42
DCV	6	HIGH	auto	0.0000050	3.1000E-05	-0.0000133	0	-1.83E-05	TRUE	41
DCV	7	HIGH	auto	-0.0000050	3.1000E-05	-0.0000239	0	-1.89E-05	TRUE	39
DCV	8	HIGH	auto	0.0000100	3.1000E-05	-0.0000085	0	-1.85E-05	TRUE	40
DCV	9	HIGH	auto	-0.0000100	3.1000E-05	-0.0000284	0	-1.84E-05	TRUE	41
DCV	10	HIGH	auto	0.0000200	3.1001E-05	0.0000014	0	-1.86E-05	TRUE	40
DCV	11	HIGH	auto	-0.0000200	3.1001E-05	-0.0000387	0	-1.87E-05	TRUE	40
DCV	12	HIGH	auto	0.0000500	3.1002E-05	0.0000314	0	-1.86E-05	TRUE	40
DCV	13	HIGH	auto	-0.0000500	3.1002E-05	-0.0000687	0	-1.87E-05	TRUE	40
DCV	14	HIGH	auto	0.0001000	3.1004E-05	0.0000815	0	-1.85E-05	TRUE	40
DCV	15	HIGH	auto	-0.0001000	3.1004E-05	-0.0001180	0	-1.80E-05	TRUE	42
DCV	16	HIGH	auto	0.0002000	3.1008E-05	0.0001816	0	-1.84E-05	TRUE	41
DCV	17	HIGH	auto	-0.0002000	3.1008E-05	-0.0002176	0	-1.76E-05	TRUE	43
DCV	18	HIGH	auto	0.0005000	3.1021E-05	0.0004818	0	-1.82E-05	TRUE	41
DCV	19	HIGH	auto	-0.0005000	3.1021E-05	-0.0005176	0	-1.76E-05	TRUE	43
DCV	20	HIGH	auto	0.0010000	3.1042E-05	0.0009826	0	-1.74E-05	TRUE	44
DCV	21	HIGH	auto	-0.0010000	3.1042E-05	-0.0010169	0	-1.69E-05	TRUE	45
DCV	22	HIGH	auto	0.0020000	3.1083E-05	0.0019825	0	-1.75E-05	TRUE	44
DCV	23	HIGH	auto	-0.0020000	3.1083E-05	-0.0020172	0	-1.72E-05	TRUE	45
DCV	24	HIGH	auto	0.0050000	3.1208E-05	0.0049827	0	-1.73E-05	TRUE	45
DCV	25	HIGH	auto	-0.0050000	3.1208E-05	-0.0050174	0	-1.74E-05	TRUE	44
DCV	26	HIGH	auto	0.0100000	3.1416E-05	0.0099826	0	-1.74E-05	TRUE	44
DCV	27	HIGH	auto	-0.0100000	3.1416E-05	-0.0100174	0	-1.74E-05	TRUE	45
DCV	28	HIGH	auto	0.0200000	3.1832E-05	0.0199826	0	-1.74E-05	TRUE	45
DCV	29	HIGH	auto	-0.0200000	3.1832E-05	-0.0200172	0	-1.72E-05	TRUE	46
DCV	30	HIGH	auto	0.0500000	3.3080E-05	0.0499816	0	-1.84E-05	TRUE	44
DCV	31	HIGH	auto	-0.0500000	3.3080E-05	-0.0500160	0	-1.60E-05	TRUE	52
DCV	32	HIGH	auto	0.1000000	3.5160E-05	0.0999809	0	-1.91E-05	TRUE	46
DCV	33	HIGH	auto	-0.1000000	3.5160E-05	-0.1000150	0	-1.50E-05	TRUE	57
DCV	34	HIGH	auto	0.2000000	3.9320E-05	0.1999778	0	-2.22E-05	TRUE	43
DCV	35	HIGH	auto	-0.2000000	3.9320E-05	-0.2000120	0	-1.20E-05	TRUE	69
DCV	36	HIGH	auto	0.5000000	5.1800E-05	0.4999697	0	-3.03E-05	TRUE	42
DCV	37	HIGH	auto	-0.5000000	5.1800E-05	-0.5000048	0	-4.81E-06	TRUE	91
DCV	38	HIGH	auto	1.0000000	7.3200E-05	0.9999546	0	-4.54E-05	TRUE	38
DCV	39	HIGH	auto	-1.0000000	7.3200E-05	-0.9999942	0	5.84E-06	TRUE	92
DCV	40	HIGH	auto	2.5610000	2.5610E-04	1.9999683	0	-3.17E-05	TRUE	88
DCV	41	HIGH	auto	-2.5610000	2.5610E-04	-1.9999894	0	1.06E-05	TRUE	96
DCV	42	HIGH	auto	5.0000000	3.7024E-04	4.9999324	0	-6.76E-05	TRUE	82
DCV	43	HIGH	auto	-5.0000000	3.7024E-04	-4.9999640	0	3.60E-05	TRUE	90
DCV	44	HIGH	auto	10.0000000	5.6049E-04	9.9998715	0	-1.28E-04	TRUE	77
DCV	45	HIGH	auto	-10.0000000	5.6049E-04	-9.9999308	0	6.92E-05	TRUE	88

pre calibration results DCV (sorted by target value)

cal type	test #	resolution	range	targetValue	target accuracy (V)	result	err?	error (V)	is within range	headroom (%)
DCV	45	HIGH	auto	-10.0000000	5.6049E-04	-9.9999308	0	6.92E-05	TRUE	88
DCV	43	HIGH	auto	-5.0000000	3.7024E-04	-4.9999640	0	3.60E-05	TRUE	90
DCV	41	HIGH	auto	-2.5610000	2.5610E-04	-1.9999894	0	1.06E-05	TRUE	96
DCV	39	HIGH	auto	-1.0000000	7.3200E-05	-0.9999942	0	5.84E-06	TRUE	92
DCV	37	HIGH	auto	-0.5000000	5.1800E-05	-0.5000048	0	-4.81E-06	TRUE	91
DCV	35	HIGH	auto	-0.2000000	3.9320E-05	-0.2000120	0	-1.20E-05	TRUE	69
DCV	33	HIGH	auto	-0.1000000	3.5160E-05	-0.1000150	0	-1.50E-05	TRUE	57
DCV	31	HIGH	auto	-0.0500000	3.3080E-05	-0.0500160	0	-1.60E-05	TRUE	52
DCV	29	HIGH	auto	-0.0200000	3.1832E-05	-0.0200172	0	-1.72E-05	TRUE	46
DCV	27	HIGH	auto	-0.0100000	3.1416E-05	-0.0100174	0	-1.74E-05	TRUE	45
DCV	25	HIGH	auto	-0.0050000	3.1208E-05	-0.0050174	0	-1.74E-05	TRUE	44
DCV	23	HIGH	auto	-0.0020000	3.1083E-05	-0.0020172	0	-1.72E-05	TRUE	45
DCV	21	HIGH	auto	-0.0010000	3.1042E-05	-0.0010169	0	-1.69E-05	TRUE	45
DCV	19	HIGH	auto	-0.0005000	3.1021E-05	-0.0005176	0	-1.76E-05	TRUE	43
DCV	17	HIGH	auto	-0.0002000	3.1008E-05	-0.0002176	0	-1.76E-05	TRUE	43
DCV	15	HIGH	auto	-0.0001000	3.1004E-05	-0.0001180	0	-1.80E-05	TRUE	42
DCV	13	HIGH	auto	-0.0000500	3.1002E-05	-0.0000687	0	-1.87E-05	TRUE	40
DCV	11	HIGH	auto	-0.0000200	3.1001E-05	-0.0000387	0	-1.87E-05	TRUE	40
DCV	9	HIGH	auto	-0.0000100	3.1000E-05	-0.0000284	0	-1.84E-05	TRUE	41
DCV	7	HIGH	auto	-0.0000050	3.1000E-05	-0.0000239	0	-1.89E-05	TRUE	39
DCV	5	HIGH	auto	-0.0000020	3.1000E-05	-0.0000201	0	-1.81E-05	TRUE	42
DCV	3	HIGH	auto	-0.0000010	3.1000E-05	-0.0000181	0	-1.71E-05	TRUE	45
DCV	1	HIGH	auto	0.0000000	3.1000E-05	-0.0000140	0	-1.40E-05	TRUE	55
DCV	2	HIGH	auto	0.0000010	3.1000E-05	-0.0000154	0	-1.64E-05	TRUE	47
DCV	4	HIGH	auto	0.0000020	3.1000E-05	-0.0000158	0	-1.78E-05	TRUE	42
DCV	6	HIGH	auto	0.0000050	3.1000E-05	-0.0000133	0	-1.83E-05	TRUE	41
DCV	8	HIGH	auto	0.0000100	3.1000E-05	-0.0000085	0	-1.85E-05	TRUE	40
DCV	10	HIGH	auto	0.0000200	3.1001E-05	0.0000014	0	-1.86E-05	TRUE	40
DCV	12	HIGH	auto	0.0000500	3.1002E-05	0.0000314	0	-1.86E-05	TRUE	40
DCV	14	HIGH	auto	0.0001000	3.1004E-05	0.0000815	0	-1.85E-05	TRUE	40
DCV	16	HIGH	auto	0.0002000	3.1008E-05	0.0001816	0	-1.84E-05	TRUE	41

DCV	18	HIGH	auto	0.0005000	3.1021E-05	0.0004818	0	-1.82E-05	TRUE	41
DCV	20	HIGH	auto	0.0010000	3.1042E-05	0.0009826	0	-1.74E-05	TRUE	44
DCV	22	HIGH	auto	0.0020000	3.1083E-05	0.0019825	0	-1.75E-05	TRUE	44
DCV	24	HIGH	auto	0.0050000	3.1208E-05	0.0049827	0	-1.73E-05	TRUE	45
DCV	26	HIGH	auto	0.0100000	3.1416E-05	0.0099826	0	-1.74E-05	TRUE	44
DCV	28	HIGH	auto	0.0200000	3.1832E-05	0.0199826	0	-1.74E-05	TRUE	45
DCV	30	HIGH	auto	0.0500000	3.3080E-05	0.0499816	0	-1.84E-05	TRUE	44
DCV	32	HIGH	auto	0.1000000	3.5160E-05	0.0999809	0	-1.91E-05	TRUE	46
DCV	34	HIGH	auto	0.2000000	3.9320E-05	0.1999778	0	-2.22E-05	TRUE	43
DCV	36	HIGH	auto	0.5000000	5.1800E-05	0.4999697	0	-3.03E-05	TRUE	42
DCV	38	HIGH	auto	1.0000000	7.3200E-05	0.9999546	0	-4.54E-05	TRUE	38
DCV	40	HIGH	auto	2.0000000	2.5610E-04	1.9999683	0	-3.17E-05	TRUE	88
DCV	42	HIGH	auto	5.0000000	3.7024E-04	4.9999324	0	-6.76E-05	TRUE	82
DCV	44	HIGH	auto	10.0000000	5.6049E-04	9.9998715	0	-1.28E-04	TRUE	77

DCV Calibration Adjustment steps

value #	type	range	targetValue
1	DCV	0	9.465112091
2	DCV	0	-9.459364651
3	DCV	0	-8.997966055
4	DCV	0	8.983051238
5	DCV	0	-0.004378329
6	DCV	0	-0.001967368
7	DCV	0	0.000753962
8	DCV	0	-0.004376752
9	DCV	0	8.985953894
10	DCV	0	-8.995064152
11	DCV	0	1.137175525
12	DCV	0	-1.138080722
13	DCV	0	8.767202413
14	DCV	0	-8.811900022
15	DCV	0	9.049150351
16	DCV	0	1.616227397
17	DCV	0	4.410448861
18	DCV	0	-4.439223284
19	DCV	0	2.217804217
20	DCV	0	-2.23879443
21	DCV	0	1.103702972
22	DCV	0	-1.120764614
23	DCV	0	0.546822777
24	DCV	0	-0.561924863
25	DCV	0	0.269310183
26	DCV	0	-0.283436041
27	DCV	0	0.13021568
28	DCV	0	-0.14385284
29	DCV	0	7.748818579
30	DCV	0	8.174906563
31	DCV	0	-7.784457797
32	DCV	0	-8.14074992
33	DCV	0	3.897661986
34	DCV	0	-3.921983148
35	DCV	0	1.959558422
36	DCV	0	-1.978313224
37	DCV	0	0.974801316
38	DCV	0	-0.990747906
39	DCV	0	0.482572194
40	DCV	0	-0.497120103
41	DCV	0	0.237279978
42	DCV	0	-0.251127582
43	DCV	0	0.114335065
44	DCV	0	-0.12783107
45	DCV	100	0.057537948
46	DCV	0	9.999054269
47	DCV	0	-9.961274915

As Returned, post calibration results

# high res tests 45  
# low res tests 0  
# high res passes 45  
# low res passes 0  
# errors 0  
% high res tests 100  
% low res tests 0  
passed high res tests? TRUE  
passed low res tests? N/A  
passed all tests? TRUE  
% high res headroom 98.2  
% low res headroom N/A  
% all headroom 98.2

DC Voltage

cal type	test #	resolution	range	targetValue	target accuracy (V)	result	err?	error (V)	is within range	headroom (%)	error (ppm)
DCV	1	HIGH	auto	0.0000000	3.1000E-05	0.0000036	0	3.55E-06	TRUE	89	
DCV	2	HIGH	auto	0.0000010	3.1000E-05	0.0000027	0	1.70E-06	TRUE	95	
DCV	3	HIGH	auto	-0.0000010	3.1000E-05	-0.0000004	0	5.86E-07	TRUE	98	
DCV	4	HIGH	auto	0.0000020	3.1000E-05	0.0000026	0	5.66E-07	TRUE	98	
DCV	5	HIGH	auto	-0.0000020	3.1000E-05	-0.0000017	0	3.50E-07	TRUE	99	
DCV	6	HIGH	auto	0.0000050	3.1000E-05	0.0000049	0	-5.24E-08	TRUE	100	
DCV	7	HIGH	auto	-0.0000050	3.1000E-05	-0.0000050	0	7.87E-09	TRUE	100	
DCV	8	HIGH	auto	0.0000100	3.1000E-05	0.0000098	0	-1.75E-07	TRUE	99	
DCV	9	HIGH	auto	-0.0000100	3.1000E-05	-0.0000101	0	-1.47E-07	TRUE	100	
DCV	10	HIGH	auto	0.0000200	3.1001E-05	0.0000196	0	-3.94E-07	TRUE	99	
DCV	11	HIGH	auto	-0.0000200	3.1001E-05	-0.0000204	0	-3.98E-07	TRUE	99	
DCV	12	HIGH	auto	0.0000500	3.1002E-05	0.0000503	0	3.18E-07	TRUE	99	
DCV	13	HIGH	auto	-0.0000500	3.1002E-05	-0.0000504	0	-3.79E-07	TRUE	99	
DCV	14	HIGH	auto	0.0001000	3.1004E-05	0.0001004	0	4.00E-07	TRUE	99	
DCV	15	HIGH	auto	-0.0001000	3.1004E-05	-0.0000996	0	4.41E-07	TRUE	99	
DCV	16	HIGH	auto	0.0002000	3.1008E-05	0.0001998	0	-1.61E-07	TRUE	99	
DCV	17	HIGH	auto	-0.0002000	3.1008E-05	-0.0001990	0	9.82E-07	TRUE	97	
DCV	18	HIGH	auto	0.0005000	3.1021E-05	0.0004997	0	-2.71E-07	TRUE	99	
DCV	19	HIGH	auto	-0.0005000	3.1021E-05	-0.0004994	0	6.34E-07	TRUE	98	
DCV	20	HIGH	auto	0.0010000	3.1042E-05	0.0010007	0	7.04E-07	TRUE	98	
DCV	21	HIGH	auto	-0.0010000	3.1042E-05	-0.0009992	0	7.57E-07	TRUE	98	
DCV	22	HIGH	auto	0.0020000	3.1083E-05	0.0020008	0	7.74E-07	TRUE	98	
DCV	23	HIGH	auto	-0.0020000	3.1083E-05	-0.0019992	0	8.10E-07	TRUE	97	
DCV	24	HIGH	auto	0.0050000	3.1208E-05	0.0050007	0	7.18E-07	TRUE	98	
DCV	25	HIGH	auto	-0.0050000	3.1208E-05	-0.0049994	0	5.50E-07	TRUE	98	
DCV	26	HIGH	auto	0.0100000	3.1416E-05	0.0100009	0	8.85E-07	TRUE	97	-88.5 ppm
DCV	27	HIGH	auto	-0.0100000	3.1416E-05	-0.0099995	0	4.57E-07	TRUE	99	45.7 ppm
DCV	28	HIGH	auto	0.0200000	3.1832E-05	0.0200012	0	1.17E-06	TRUE	96	-58.7 ppm

DCV	29	HIGH	auto	-0.0200000	3.1832E-05	-0.0199995	0	5.21E-07	TRUE	✓	98	26.0 ppm
DCV	30	HIGH	auto	0.0500000	3.3080E-05	0.0500008	0	7.77E-07	TRUE	✓	98	-15.5 ppm
DCV	31	HIGH	auto	-0.0500000	3.3080E-05	-0.0499990	0	1.01E-06	TRUE	●	97	20.2 ppm
DCV	32	HIGH	auto	0.1000000	3.5160E-05	0.1000005	0	5.02E-07	TRUE	✓	99	-5.0 ppm
DCV	33	HIGH	auto	-0.1000000	3.5160E-05	-0.0999991	0	8.62E-07	TRUE	✓	98	8.6 ppm
DCV	34	HIGH	auto	0.2000000	3.9320E-05	0.2000011	0	1.09E-06	TRUE	●	97	-5.5 ppm
DCV	35	HIGH	auto	-0.2000000	3.9320E-05	-0.1999995	0	4.94E-07	TRUE	✓	99	2.5 ppm
DCV	36	HIGH	auto	0.5000000	5.1800E-05	0.5000008	0	7.89E-07	TRUE	✓	98	-1.6 ppm
DCV	37	HIGH	auto	-0.5000000	5.1800E-05	-0.4999995	0	5.39E-07	TRUE	✓	99	1.1 ppm
DCV	38	HIGH	auto	1.0000000	7.3200E-05	1.0000006	0	5.92E-07	TRUE	✓	99	-0.6 ppm
DCV	39	HIGH	auto	-1.0000000	7.3200E-05	-1.0000007	0	-7.12E-07	TRUE	✓	99	-0.7 ppm
DCV	40	HIGH	auto	2.0000000	2.5610E-04	2.0000037	0	3.69E-06	TRUE	✓	99	-1.8 ppm
DCV	41	HIGH	auto	-2.0000000	2.5610E-04	-1.9999976	0	2.44E-06	TRUE	✓	99	1.2 ppm
DCV	42	HIGH	auto	5.0000000	3.7024E-04	5.0000013	0	1.28E-06	TRUE	✓	100	-0.3 ppm
DCV	43	HIGH	auto	-5.0000000	3.7024E-04	-5.0000004	0	-4.39E-07	TRUE	✓	100	-0.1 ppm
DCV	44	HIGH	auto	10.0000000	5.6049E-04	10.0000015	0	1.51E-06	TRUE	✓	100	-0.2 ppm
DCV	45	HIGH	auto	-10.0000000	5.6049E-04	-10.0000022	0	-2.16E-06	TRUE	✓	100	-0.2 ppm

DC Voltage

post calibration results DCV (sorted by target value)

cal type	test #	resolution	range	targetValue	target accuracy (V)	result	err?	error (V)	is within range	headroom (%)
DCV	45	HIGH	auto	-10.0000000	5.6049E-04	-10.0000022	0	-2.16E-06	TRUE	✓ 100
DCV	43	HIGH	auto	-5.0000000	3.7024E-04	-5.0000004	0	-4.39E-07	TRUE	✓ 100
DCV	41	HIGH	auto	-2.0000000	2.5610E-04	-1.9999976	0	2.44E-06	TRUE	✓ 99
DCV	39	HIGH	auto	-1.0000000	7.3200E-05	-1.0000007	0	-7.12E-07	TRUE	✓ 99
DCV	37	HIGH	auto	-0.5000000	5.1800E-05	-0.4999995	0	5.39E-07	TRUE	✓ 99
DCV	35	HIGH	auto	-0.2000000	3.9320E-05	-0.1999995	0	4.94E-07	TRUE	✓ 99
DCV	33	HIGH	auto	-0.1000000	3.5160E-05	-0.0999991	0	8.62E-07	TRUE	✓ 98
DCV	31	HIGH	auto	-0.0500000	3.3080E-05	-0.0499990	0	1.01E-06	TRUE	● 97
DCV	29	HIGH	auto	-0.0200000	3.1832E-05	-0.0199995	0	5.21E-07	TRUE	✓ 98
DCV	27	HIGH	auto	-0.0100000	3.1416E-05	-0.0099995	0	4.57E-07	TRUE	✓ 99
DCV	25	HIGH	auto	-0.0050000	3.1208E-05	-0.0049994	0	5.50E-07	TRUE	✓ 98
DCV	23	HIGH	auto	-0.0020000	3.1083E-05	-0.0019992	0	8.10E-07	TRUE	● 97
DCV	21	HIGH	auto	-0.0010000	3.1042E-05	-0.0009992	0	7.57E-07	TRUE	✓ 98
DCV	19	HIGH	auto	-0.0005000	3.1021E-05	-0.0004994	0	6.34E-07	TRUE	✓ 98
DCV	17	HIGH	auto	-0.0002000	3.1008E-05	-0.0001990	0	9.82E-07	TRUE	● 97
DCV	15	HIGH	auto	-0.0001000	3.1004E-05	-0.0000996	0	4.41E-07	TRUE	✓ 99
DCV	13	HIGH	auto	-0.0000500	3.1002E-05	-0.0000504	0	-3.79E-07	TRUE	✓ 99
DCV	11	HIGH	auto	-0.0000200	3.1001E-05	-0.0000204	0	-3.98E-07	TRUE	✓ 99
DCV	9	HIGH	auto	-0.0000100	3.1000E-05	-0.0000101	0	-1.47E-07	TRUE	✓ 100
DCV	7	HIGH	auto	-0.0000050	3.1000E-05	-0.0000050	0	7.87E-09	TRUE	✓ 100
DCV	5	HIGH	auto	-0.0000020	3.1000E-05	-0.0000017	0	3.50E-07	TRUE	✓ 99
DCV	3	HIGH	auto	-0.0000010	3.1000E-05	-0.0000004	0	5.86E-07	TRUE	✓ 98
DCV	1	HIGH	auto	0.0000000	3.1000E-05	0.0000036	0	3.55E-06	TRUE	⚠ 89
DCV	2	HIGH	auto	0.0000010	3.1000E-05	0.0000027	0	1.70E-06	TRUE	● 95
DCV	4	HIGH	auto	0.0000020	3.1000E-05	0.0000026	0	5.66E-07	TRUE	✓ 98
DCV	6	HIGH	auto	0.0000050	3.1000E-05	0.0000049	0	-5.24E-08	TRUE	✓ 100
DCV	8	HIGH	auto	0.0000100	3.1000E-05	0.0000098	0	-1.75E-07	TRUE	✓ 99
DCV	10	HIGH	auto	0.0000200	3.1001E-05	0.0000196	0	-3.94E-07	TRUE	✓ 99
DCV	12	HIGH	auto	0.0000500	3.1002E-05	0.0000503	0	3.18E-07	TRUE	✓ 99
DCV	14	HIGH	auto	0.0001000	3.1004E-05	0.0001004	0	4.00E-07	TRUE	✓ 99
DCV	16	HIGH	auto	0.0002000	3.1008E-05	0.0001998	0	-1.61E-07	TRUE	✓ 99
DCV	18	HIGH	auto	0.0005000	3.1021E-05	0.0004997	0	-2.71E-07	TRUE	✓ 99
DCV	20	HIGH	auto	0.0010000	3.1042E-05	0.0010007	0	7.04E-07	TRUE	✓ 98
DCV	22	HIGH	auto	0.0020000	3.1083E-05	0.0020008	0	7.74E-07	TRUE	✓ 98
DCV	24	HIGH	auto	0.0050000	3.1208E-05	0.0050007	0	7.18E-07	TRUE	✓ 98
DCV	26	HIGH	auto	0.0100000	3.1416E-05	0.0100009	0	8.85E-07	TRUE	● 97
DCV	28	HIGH	auto	0.0200000	3.1832E-05	0.0200012	0	1.17E-06	TRUE	● 96
DCV	30	HIGH	auto	0.0500000	3.3080E-05	0.0500008	0	7.77E-07	TRUE	✓ 98
DCV	32	HIGH	auto	0.1000000	3.5160E-05	0.1000005	0	5.02E-07	TRUE	✓ 99
DCV	34	HIGH	auto	0.2000000	3.9320E-05	0.2000011	0	1.09E-06	TRUE	● 97
DCV	36	HIGH	auto	0.5000000	5.1800E-05	0.5000008	0	7.89E-07	TRUE	✓ 98
DCV	38	HIGH	auto	1.0000000	7.3200E-05	1.0000006	0	5.92E-07	TRUE	✓ 99
DCV	40	HIGH	auto	2.0000000	2.5610E-04	2.0000037	0	3.69E-06	TRUE	✓ 99
DCV	42	HIGH	auto	5.0000000	3.7024E-04	5.0000013	0	1.28E-06	TRUE	✓ 100
DCV	44	HIGH	auto	10.0000000	5.6049E-04	10.0000015	0	1.51E-06	TRUE	✓ 100

DC Current

cal type	test #	resolution	range	targetValue	target accuracy (A)	result	err?	error (A)	is within range	headroom (%)	error (ppm)
DCI	46	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-1.31E-11	TRUE	✓ 100	
DCI	47	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-6.97E-11	TRUE	● 98	
DCI	48	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-8.30E-11	TRUE	● 97	
DCI	49	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-7.90E-11	TRUE	● 98	
DCI	50	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-6.15E-11	TRUE	● 98	
DCI	51	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-6.81E-11	TRUE	● 98	
DCI	52	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-8.76E-11	TRUE	● 97	
DCI	53	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-1.05E-10	TRUE	● 97	
DCI	54	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-5.10E-11	TRUE	● 98	
DCI	55	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-7.53E-11	TRUE	● 98	
DCI	56	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-1.03E-10	TRUE	● 97	
DCI	57	HIGH	auto	0.0000000	3.3003E-09	0.0000000	0	-4.90E-11	TRUE	✓ 99	
DCI	58	HIGH	auto	0.0000000	3.3003E-09	0.0000000	0	-8.44E-11	TRUE	● 97	
DCI	59	HIGH	auto	0.0000000	3.3005E-09	0.0000000	0	-7.15E-11	TRUE	● 98	
DCI	60	HIGH	auto	0.0000000	3.3005E-09	0.0000000	0	-6.01E-11	TRUE	● 98	
DCI	61	HIGH	auto	0.0000000	3.3010E-09	0.0000000	0	-1.08E-10	TRUE	● 97	
DCI	62	HIGH	auto	0.0000000	3.3010E-09	0.0000000	0	-2.13E-11	TRUE	✓ 99	
DCI	63	HIGH	auto	0.0000001	3.3026E-09	0.0000000	0	-3.47E-11	TRUE	✓ 99	
DCI	64	HIGH	auto	-0.0000001	3.3026E-09	-0.0000001	0	-1.44E-11	TRUE	✓ 100	
DCI	65	HIGH	auto	0.0000001	3.3052E-09	0.0000001	0	-4.27E-11	TRUE	✓ 99	
DCI	66	HIGH	auto	-0.0000001	3.3052E-09	-0.0000001	0	2.61E-11	TRUE	✓ 99	
DCI	67	HIGH	auto	0.0000002	3.3104E-09	0.0000002	0	-2.73E-11	TRUE	✓ 99	
DCI	68	HIGH	auto	-0.0000002	3.3104E-09	-0.0000002	0	-4.07E-11	TRUE	✓ 99	
DCI	69	HIGH	auto	0.0000005	3.3260E-09	0.0000005	0	-5.44E-11	TRUE	● 98	
DCI	70	HIGH	auto	-0.0000005	3.3260E-09	-0.0000005	0	-2.98E-11	TRUE	✓ 99	
DCI	71	HIGH	auto	0.0000010	3.3520E-09	0.0000010	0	-4.60E-11	TRUE	✓ 99	46.0 ppm
DCI	72	HIGH	auto	-0.0000010	3.3520E-09	-0.0000010	0	-5.64E-11	TRUE	● 98	-56.4 ppm
DCI	73	HIGH	auto	0.0000020	3.4040E-09	0.0000020	0	1.33E-11	TRUE	✓ 100	-6.6 ppm
DCI	74	HIGH	auto	-0.0000020	3.4040E-09	-0.0000020	0	-5.42E-11	TRUE	● 98	-27.1 ppm
DCI	75	HIGH	auto	0.0000050	3.5600E-09	0.0000050	0	9.64E-12	TRUE	✓ 100	-1.9 ppm
DCI	76	HIGH	auto	-0.0000050	3.5600E-09	-0.0000050	0	1.64E-11	TRUE	✓ 100	3.3 ppm
DCI	77	HIGH	auto	0.0000100	3.8200E-09	0.0000100	0	-3.63E-11	TRUE	✓ 99	3.6 ppm
DCI	78	HIGH	auto	-0.0000100	3.8200E-09	-0.0000100	0	-3.93E-12	TRUE	✓ 100	-0.4 ppm
DCI	79	HIGH	auto	0.0000200	4.3400E-09	0.0000200	0	-2.92E-11	TRUE	✓ 99	1.5 ppm
DCI	80	HIGH	auto	-0.0000200	4.3400E-09	-0.0000200	0	-1.10E-11	TRUE	✓ 100	-0.5 ppm
DCI	81	HIGH	auto	0.0000500	5.9000E-09	0.0000500	0	4.46E-11	TRUE	✓ 99	-0.9 ppm
DCI	82	HIGH	auto	-0.0000500	5.9000E-09	-0.0000500	0	-3.37E-11	TRUE	✓ 99	-0.7 ppm
DCI	83	HIGH	auto	0.0001000	8.5000E-09	0.0001000	0	-1.35E-10	TRUE	● 98	1.3 ppm
DCI	84	HIGH	auto	-0.0001000	8.5000E-09	-0.0001000	0	-1.40E-10	TRUE	● 98	-1.4 ppm
DCI	85	HIGH	auto	0.0002000	3.0400E-08	0.0002000	0	1.02E-09	TRUE	● 97	-5.1 ppm
DCI	86	HIGH	auto	-0.0002000	3.0400E-08	-0.0002000	0	3.20E-10	TRUE	✓ 99	1.6 ppm

DCI	87	HIGH	auto	0.0005000	4.6000E-08	0.0005000	0	3.07E-10	TRUE	✓	99	-0.6 ppm
DCI	88	HIGH	auto	-0.0005000	4.6000E-08	-0.0005000	0	8.25E-10	TRUE	●	98	1.6 ppm
DCI	89	HIGH	auto	0.0010000	7.2000E-08	0.0010000	0	-5.70E-10	TRUE	✓	99	0.6 ppm
DCI	90	HIGH	auto	-0.0010000	7.2000E-08	-0.0010000	0	-1.67E-09	TRUE	●	98	-1.7 ppm
DCI	91	HIGH	auto	0.0020000	3.6800E-07	0.0020000	0	-1.23E-09	TRUE	✓	100	0.6 ppm
DCI	92	HIGH	auto	-0.0020000	3.6800E-07	-0.0020000	0	9.63E-09	TRUE	●	97	4.8 ppm
DCI	93	HIGH	auto	0.0050000	5.9000E-07	0.0050000	0	-3.43E-09	TRUE	✓	99	0.7 ppm
DCI	94	HIGH	auto	-0.0050000	5.9000E-07	-0.0050000	0	-3.97E-09	TRUE	✓	99	-0.8 ppm
DCI	95	HIGH	auto	0.0100000	9.6000E-07	0.0100000	0	4.12E-09	TRUE	✓	100	-0.4 ppm
DCI	96	HIGH	auto	-0.0100000	9.6000E-07	-0.0100000	0	-1.26E-09	TRUE	✓	100	-0.1 ppm
DCI	97	HIGH	auto	0.0200000	7.3400E-06	0.0199995	0	-5.26E-07	TRUE	⚠	93	26.3 ppm
DCI	98	HIGH	auto	-0.0200000	7.3400E-06	-0.0200004	0	-3.84E-07	TRUE	⚠	95	-19.2 ppm
DCI	99	HIGH	auto	0.0500000	1.3400E-05	0.0499993	0	-6.84E-07	TRUE	⚠	95	13.7 ppm
DCI	100	HIGH	auto	-0.0500000	1.3400E-05	-0.0500003	0	-2.96E-07	TRUE	●	98	-5.9 ppm
DCI	101	HIGH	auto	0.1000000	2.3500E-05	0.0999983	0	-1.75E-06	TRUE	⚠	93	17.5 ppm
DCI	102	HIGH	auto	-0.1000000	2.3500E-05	-0.0999989	0	1.07E-06	TRUE	⚠	95	10.7 ppm

DC Current

post calibration results DCI (sorted by target value)

cal type	test #	resolution	range	targetValue	target accuracy (A)	result	err?	error (A)	is within range	headroom (%)
DCI	102	HIGH	auto	-0.1000000	2.3500E-05	-0.0999989	0	1.07E-06	TRUE	⚠ 95
DCI	100	HIGH	auto	-0.0500000	1.3400E-05	-0.0500003	0	-2.96E-07	TRUE	● 98
DCI	98	HIGH	auto	-0.0200000	7.3400E-06	-0.0200004	0	-3.84E-07	TRUE	⚠ 95
DCI	96	HIGH	auto	-0.0100000	9.6000E-07	-0.0100000	0	-1.26E-09	TRUE	✓ 100
DCI	94	HIGH	auto	-0.0050000	5.9000E-07	-0.0050000	0	-3.97E-09	TRUE	✓ 99
DCI	92	HIGH	auto	-0.0020000	3.6800E-07	-0.0020000	0	9.63E-09	TRUE	● 97
DCI	90	HIGH	auto	-0.0010000	7.2000E-08	-0.0010000	0	-1.67E-09	TRUE	● 98
DCI	88	HIGH	auto	-0.0005000	4.6000E-08	-0.0005000	0	8.25E-10	TRUE	● 98
DCI	86	HIGH	auto	-0.0002000	3.0400E-08	-0.0002000	0	3.20E-10	TRUE	✓ 99
DCI	84	HIGH	auto	-0.0001000	8.5000E-09	-0.0001000	0	-1.40E-10	TRUE	● 98
DCI	82	HIGH	auto	-0.0000500	5.9000E-09	-0.0000500	0	-3.37E-11	TRUE	✓ 99
DCI	80	HIGH	auto	-0.0000200	4.3400E-09	-0.0000200	0	-1.10E-11	TRUE	✓ 100
DCI	78	HIGH	auto	-0.0000100	3.8200E-09	-0.0000100	0	-3.93E-12	TRUE	✓ 100
DCI	76	HIGH	auto	-0.0000050	3.5600E-09	-0.0000050	0	1.64E-11	TRUE	✓ 100
DCI	74	HIGH	auto	-0.0000020	3.4040E-09	-0.0000020	0	-5.42E-11	TRUE	● 98
DCI	72	HIGH	auto	-0.0000010	3.3520E-09	-0.0000010	0	-5.64E-11	TRUE	● 98
DCI	70	HIGH	auto	-0.0000005	3.3260E-09	-0.0000005	0	-2.98E-11	TRUE	✓ 99
DCI	68	HIGH	auto	-0.0000002	3.3104E-09	-0.0000002	0	-4.07E-11	TRUE	✓ 99
DCI	66	HIGH	auto	-0.0000001	3.3052E-09	-0.0000001	0	2.61E-11	TRUE	✓ 99
DCI	64	HIGH	auto	-0.0000001	3.3026E-09	-0.0000001	0	-1.44E-11	TRUE	✓ 100
DCI	62	HIGH	auto	0.0000000	3.3010E-09	0.0000000	0	-2.13E-11	TRUE	✓ 99
DCI	60	HIGH	auto	0.0000000	3.3005E-09	0.0000000	0	-6.01E-11	TRUE	● 98
DCI	58	HIGH	auto	0.0000000	3.3003E-09	0.0000000	0	-8.44E-11	TRUE	● 97
DCI	56	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-1.03E-10	TRUE	● 97
DCI	54	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-5.10E-11	TRUE	● 98
DCI	52	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-8.76E-11	TRUE	● 97
DCI	50	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-6.15E-11	TRUE	● 98
DCI	48	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-8.30E-11	TRUE	● 97
DCI	46	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-1.31E-11	TRUE	✓ 100
DCI	47	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-6.97E-11	TRUE	● 98
DCI	49	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-7.90E-11	TRUE	● 98
DCI	51	HIGH	auto	0.0000000	3.3000E-09	0.0000000	0	-6.81E-11	TRUE	● 98
DCI	53	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-1.05E-10	TRUE	● 97
DCI	55	HIGH	auto	0.0000000	3.3001E-09	0.0000000	0	-7.53E-11	TRUE	● 98
DCI	57	HIGH	auto	0.0000000	3.3003E-09	0.0000000	0	-4.90E-11	TRUE	✓ 99
DCI	59	HIGH	auto	0.0000000	3.3005E-09	0.0000000	0	-7.15E-11	TRUE	● 98
DCI	61	HIGH	auto	0.0000000	3.3010E-09	0.0000000	0	-1.08E-10	TRUE	● 97
DCI	63	HIGH	auto	0.0000001	3.3026E-09	0.0000000	0	-3.47E-11	TRUE	✓ 99
DCI	65	HIGH	auto	0.0000001	3.3052E-09	0.0000001	0	-4.27E-11	TRUE	✓ 99
DCI	67	HIGH	auto	0.0000002	3.3104E-09	0.0000002	0	-2.73E-11	TRUE	✓ 99
DCI	69	HIGH	auto	0.0000005	3.3260E-09	0.0000005	0	-5.44E-11	TRUE	● 98
DCI	71	HIGH	auto	0.0000010	3.3520E-09	0.0000010	0	-4.60E-11	TRUE	✓ 99
DCI	73	HIGH	auto	0.0000020	3.4040E-09	0.0000020	0	1.33E-11	TRUE	✓ 100
DCI	75	HIGH	auto	0.0000050	3.5600E-09	0.0000050	0	9.64E-12	TRUE	✓ 100
DCI	77	HIGH	auto	0.0000100	3.8200E-09	0.0000100	0	-3.63E-11	TRUE	✓ 99
DCI	79	HIGH	auto	0.0000200	4.3400E-09	0.0000200	0	-2.92E-11	TRUE	✓ 99
DCI	81	HIGH	auto	0.0000500	5.9000E-09	0.0000500	0	4.46E-11	TRUE	✓ 99
DCI	83	HIGH	auto	0.0001000	8.5000E-09	0.0001000	0	-1.35E-10	TRUE	● 98
DCI	85	HIGH	auto	0.0002000	3.0400E-08	0.0002000	0	1.02E-09	TRUE	● 97
DCI	87	HIGH	auto	0.0005000	4.6000E-08	0.0005000	0	3.07E-10	TRUE	✓ 99
DCI	89	HIGH	auto	0.0010000	7.2000E-08	0.0010000	0	-5.70E-10	TRUE	✓ 99
DCI	91	HIGH	auto	0.0020000	3.6800E-07	0.0020000	0	-1.23E-09	TRUE	✓ 100
DCI	93	HIGH	auto	0.0050000	5.9000E-07	0.0050000	0	-3.43E-09	TRUE	✓ 99
DCI	95	HIGH	auto	0.0100000	9.6000E-07	0.0100000	0	4.12E-09	TRUE	✓ 100
DCI	97	HIGH	auto	0.0200000	7.3400E-06	0.0199995	0	-5.26E-07	TRUE	⚠ 93
DCI	99	HIGH	auto	0.0500000	1.3400E-05	0.0499993	0	-6.84E-07	TRUE	⚠ 95
DCI	101	HIGH	auto	0.1000000	2.3500E-05	0.0999983	0	-1.75E-06	TRUE	⚠ 93