



Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Accreditation No.: SCS 108

Client Sporton (Auden)

Certificate No: DAE3-577_Nov08

CALIBRATION CERTIFICATE

Object: DAE3 - SD 000 D03 AA - SN: 577
Calibration procedure(s): QA CAL-06.v12
Calibration date: November 12, 2008
Condition of the calibrated item: In Tolerance
This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.
Calibration Equipment used (M&TE critical for calibration)
Primary Standards table with columns: ID #, Cal Date (Certificate No.), Scheduled Calibration
Secondary Standards table with columns: ID #, Check Date (in house), Scheduled Check
Calibrated by: Name (Andrea Guntli), Function (Technician), Signature
Approved by: Name (Fin Bomholt), Function (R&D Director), Signature
Issued: November 12, 2008
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Accreditation No.: SCS 108

Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - *Common mode sensitivity:* Influence of a positive or negative common mode voltage on the differential measurement.
 - *Channel separation:* Influence of a voltage on the neighbor channels not subject to an input voltage.
 - *AD Converter Values with inputs shorted:* Values on the internal AD converter corresponding to zero input voltage
 - *Input Offset Measurement:* Output voltage and statistical results over a large number of zero voltage measurements.
 - *Input Offset Current:* Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - *Input resistance:* DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - *Low Battery Alarm Voltage:* Typical value for information. Below this voltage, a battery alarm signal is generated.
 - *Power consumption:* Typical value for information. Supply currents in various operating modes.



DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV

Low Range: 1LSB = 61nV , full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.437 \pm 0.1% (k=2)	403.882 \pm 0.1% (k=2)	404.321 \pm 0.1% (k=2)
Low Range	3.93985 \pm 0.7% (k=2)	3.94699 \pm 0.7% (k=2)	3.94542 \pm 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASYS system	268 $^{\circ}$ \pm 1 $^{\circ}$
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Appendix

1. DC Voltage Linearity

High Range	Input (μV)	Reading (μV)	Error (%)
Channel X + Input	200000	200000.5	0.00
Channel X + Input	20000	20006.28	0.03
Channel X - Input	20000	-19997.96	-0.01
Channel Y + Input	200000	199999.8	0.00
Channel Y + Input	20000	20003.35	0.02
Channel Y - Input	20000	-20003.31	0.02
Channel Z + Input	200000	200000.3	0.00
Channel Z + Input	20000	20006.28	0.03
Channel Z - Input	20000	-19999.42	0.00

Low Range	Input (μV)	Reading (μV)	Error (%)
Channel X + Input	2000	2000	0.00
Channel X + Input	200	200.64	0.32
Channel X - Input	200	-199.61	-0.19
Channel Y + Input	2000	2000	0.00
Channel Y + Input	200	199.39	-0.31
Channel Y - Input	200	-201.03	0.52
Channel Z + Input	2000	2000	0.00
Channel Z + Input	200	199.42	-0.29
Channel Z - Input	200	-200.73	0.36

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	13.38	13.83
	- 200	-13.53	-13.82
Channel Y	200	-5.55	-6.09
	- 200	5.06	5.66
Channel Z	200	-1.00	-0.72
	- 200	-0.80	-0.52

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	1.66	0.50
Channel Y	200	1.90	-	3.95
Channel Z	200	-0.95	0.48	-



4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	15967	16080
Channel Y	15851	16385
Channel Z	16197	16100

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	1.13	-1.22	2.29	0.58
Channel Y	-1.51	-2.99	0.83	0.52
Channel Z	0.02	-0.89	0.92	0.38

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	198.6
Channel Y	0.2001	199.4
Channel Z	0.2000	198.8

8. Low Battery Alarm Voltage (verified during pre test)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9



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Accreditation No.: SCS 108

Client Auden

Certificate No: DAE4-679_May08

CALIBRATION CERTIFICATE

Object: DAE4 - SD 000 D04 BA - SN: 679
Calibration procedure(s): QA CAL-06.v12, Calibration procedure for the data acquisition electronics (DAE)
Calibration date: May 21, 2008
Condition of the calibrated item: In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Table with 4 columns: Primary Standards, ID #, Cal Date (Certificate No.), Scheduled Calibration. Includes entries for Fluke Process Calibrator Type 702 and Keithley Multimeter Type 2001.

Table with 4 columns: Secondary Standards, ID #, Check Date (in house), Scheduled Check. Includes entry for Calibrator Box V1.1.

Calibrated by: Dominique Steffen, Technician, Signature
Approved by: Fin Bomholt, R&D Director, Signature

Issued: May 21, 2008

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Accreditation No.: SCS 108

Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

- *DC Voltage Measurement:* Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- *Connector angle:* The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - *DC Voltage Measurement Linearity:* Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
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 - *Power consumption:* Typical value for information. Supply currents in various operating modes.



DC Voltage Measurement

A/D - Converter Resolution nominal
High Range: 1LSB = 6.1 μ V , full range = -100...+300 mV
Low Range: 1LSB = 61nV , full range = -1.....+3mV
DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.509 \pm 0.1% (k=2)	404.928 \pm 0.1% (k=2)	405.207 \pm 0.1% (k=2)
Low Range	3.98477 \pm 0.7% (k=2)	3.94731 \pm 0.7% (k=2)	3.98878 \pm 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	316 $^{\circ}$ \pm 1 $^{\circ}$
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Appendix

1. DC Voltage Linearity

High Range	Input (μV)	Reading (μV)	Error (%)
Channel X + Input	200000	199999.5	0.00
Channel X + Input	20000	20003.57	0.02
Channel X - Input	20000	-19999.29	0.00
Channel Y + Input	200000	199999.4	0.00
Channel Y + Input	20000	20003.45	0.02
Channel Y - Input	20000	-20004.32	0.02
Channel Z + Input	200000	199999.8	0.00
Channel Z + Input	20000	20002.50	0.01
Channel Z - Input	20000	-20004.27	0.02

Low Range	Input (μV)	Reading (μV)	Error (%)
Channel X + Input	2000	2000	0.00
Channel X + Input	200	200.27	0.13
Channel X - Input	200	-199.47	-0.27
Channel Y + Input	2000	1999.9	0.00
Channel Y + Input	200	199.26	-0.37
Channel Y - Input	200	-199.82	-0.09
Channel Z + Input	2000	2000	0.00
Channel Z + Input	200	199.19	-0.41
Channel Z - Input	200	-200.77	0.39

2. Common mode sensitivity

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	4.20	4.06
	-200	-2.14	-1.85
Channel Y	200	6.39	6.01
	-200	-6.03	-5.79
Channel Z	200	-4.80	-5.16
	-200	4.08	4.80

3. Channel separation

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	1.42	0.07
Channel Y	200	1.22	-	3.06
Channel Z	200	-1.13	1.08	-



4. AD-Converter Values with inputs shorted

DASy measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16182	17365
Channel Y	15398	16603
Channel Z	16047	16211

5. Input Offset Measurement

DASy measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec
Input 10M Ω

	Average (μ V)	min. Offset (μ V)	max. Offset (μ V)	Std. Deviation (μ V)
Channel X	1.05	-1.09	2.60	0.50
Channel Y	-0.43	-2.28	1.41	0.66
Channel Z	-0.33	-2.83	1.40	0.56

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	198.9
Channel Y	0.2000	197.7
Channel Z	0.1999	196.5

8. Low Battery Alarm Voltage (verified during pre test)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9



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Accreditation No.: SCS 108

Client Sporton (Auden)

Certificate No: DAE4-778_Sep08

CALIBRATION CERTIFICATE

Object: DAE4 - SD 000 D04 BG - SN: 778
Calibration procedure(s): QA CAL-06.v12 Calibration procedure for the data acquisition electronics (DAE)
Calibration date: September 22, 2008
Condition of the calibrated item: In Tolerance

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).
All calibrations have been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

Table with 4 columns: Standards, ID #, Date, and Scheduled. Rows include Primary Standards (Fluke Process Calibrator, Keithley Multimeter) and Secondary Standards (Calibrator Box).

Calibrated by: Andrea Guntli, Technician
Approved by: Fin Bomholt, R&D Director

Issued: September 22, 2008

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Glossary

DAE data acquisition electronics
Connector angle information used in DASY system to align probe sensor X to the robot coordinate system.

Methods Applied and Interpretation of Parameters

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 - *Input resistance:* DAE input resistance at the connector, during internal auto-zeroing and during measurement.
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 - *Power consumption:* Typical value for information. Supply currents in various operating modes.



DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: 1LSB = 6.1 μ V, full range = -100...+300 mV
Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	404.686 \pm 0.1% (k=2)	403.490 \pm 0.1% (k=2)	405.045 \pm 0.1% (k=2)
Low Range	3.99455 \pm 0.7% (k=2)	3.96369 \pm 0.7% (k=2)	3.99417 \pm 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	309 $^{\circ}$ \pm 1 $^{\circ}$
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Appendix

1. DC Voltage Linearity

High Range	Input (μV)	Reading (μV)	Error (%)
Channel X + Input	200000	200000.3	0.00
Channel X + Input	20000	20004.24	0.02
Channel X - Input	20000	-20002.46	0.01
Channel Y + Input	200000	200000.4	0.00
Channel Y + Input	20000	20002.60	0.01
Channel Y - Input	20000	-20002.26	0.01
Channel Z + Input	200000	200000.6	0.00
Channel Z + Input	20000	20000.78	0.00
Channel Z - Input	20000	-20005.75	0.03

Low Range	Input (μV)	Reading (μV)	Error (%)
Channel X + Input	2000	2000	0.00
Channel X + Input	200	199.37	-0.31
Channel X - Input	200	-200.28	0.14
Channel Y + Input	2000	2000	0.00
Channel Y + Input	200	199.63	-0.19
Channel Y - Input	200	-200.88	0.44
Channel Z + Input	2000	2000.1	0.00
Channel Z + Input	200	198.60	-0.70
Channel Z - Input	200	-201.07	0.53

2. Common mode sensitivity

DASy measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-7.46	-6.40
	- 200	10.00	6.86
Channel Y	200	-2.73	-2.45
	- 200	0.84	0.43
Channel Z	200	-10.91	-10.94
	- 200	7.89	8.22

3. Channel separation

DASy measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	3.08	-1.34
Channel Y	200	1.18	-	4.64
Channel Z	200	-1.74	1.44	-



4. AD-Converter Values with inputs shorted

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

	High Range (LSB)	Low Range (LSB)
Channel X	16048	16021
Channel Y	16167	15166
Channel Z	16416	15977

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Input 10MΩ

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (μV)
Channel X	-0.13	-0.88	0.92	0.33
Channel Y	-0.88	-2.47	0.72	0.55
Channel Z	-1.16	-2.17	-0.19	0.42

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance

	Zeroing (MOhm)	Measuring (MOhm)
Channel X	0.2000	201.1
Channel Y	0.2000	201.0
Channel Z	0.2001	201.7

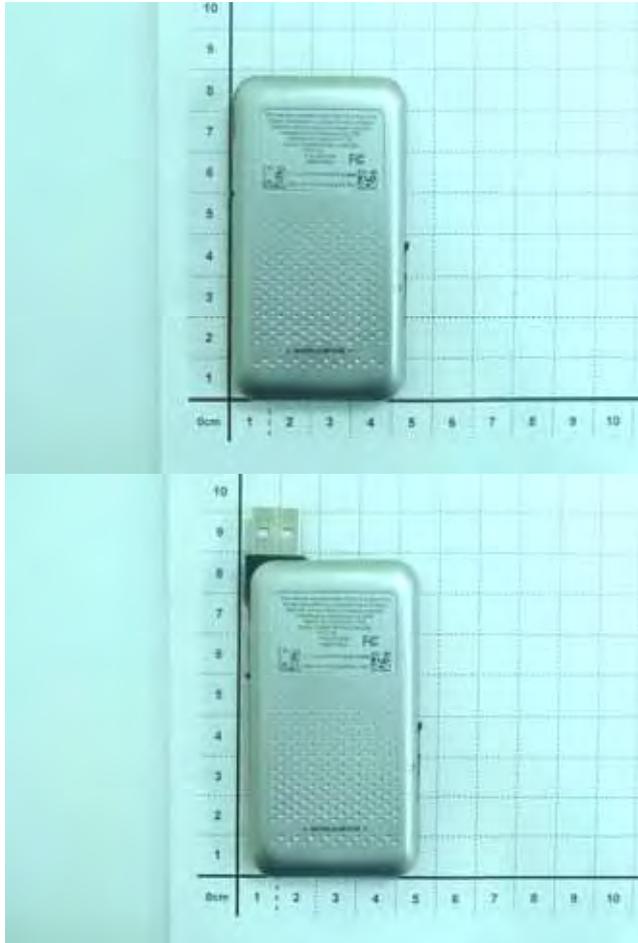
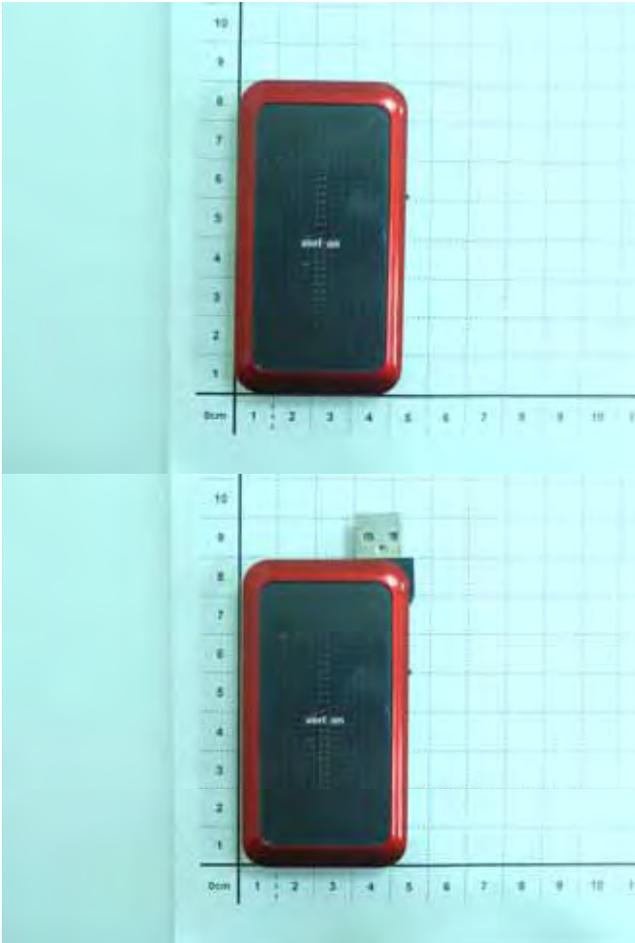
8. Low Battery Alarm Voltage (verified during pre test)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.9
Supply (- Vcc)	-7.6

9. Power Consumption (verified during pre test)

Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)
Supply (+ Vcc)	+0.0	+6	+14
Supply (- Vcc)	-0.01	-8	-9

Appendix D - Product Photos



Appendix E - Test Setup Photos



Horizontal Up in Straight Mode



Vertical Front in Straight Mode

Note: The separation distance from DUT to phantom is 5 mm for all test position.

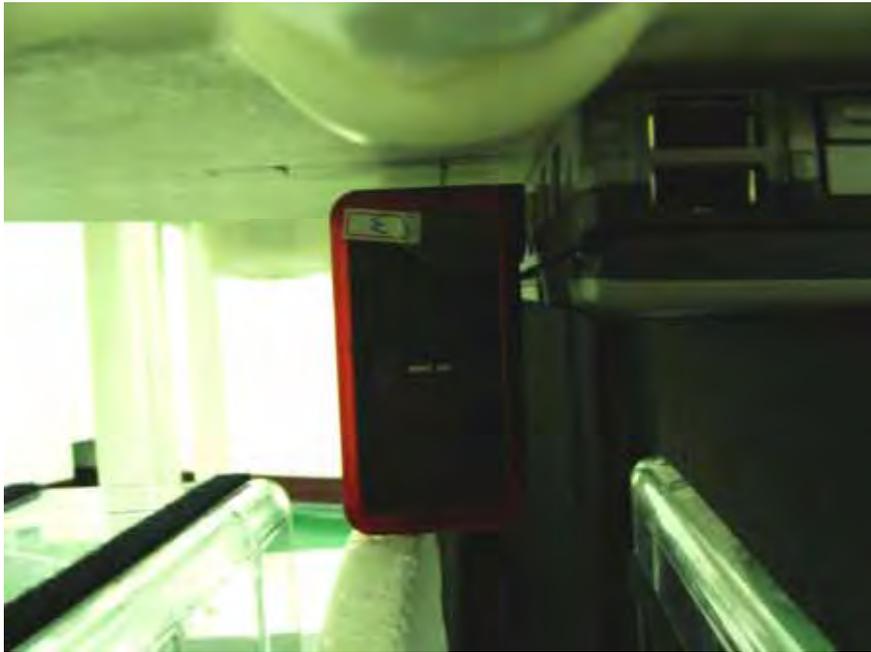


Horizontal Down in Straight Mode



Vertical Back in Straight Mode

Note: The separation distance from DUT to phantom is 5 mm for all test position.



Vertical Back in Vertical Mode



Vertical Front in Vertical Mode

Note: The separation distance from DUT to phantom is 5 mm for all test position.



Horizontal Down in Straight Mode for Back-Off SAR

Note: The separation distance from DUT to phantom is 10 mm for Back-Off SAR test.



Appendix F - FCC 3G SAR Measurement Procedures

Conducted Output Power:

The PBA is fulfilled. The EUT was tested according to the requirements of the FCC 3G procedures and the TS 34.121. The EUT's WCDMA and HSPA function is Release 6 version supporting HSDPA Category 8, and HSUPA Category 5. A detailed analysis of the output power for all WCDMA, HSPDA, and HSPA (HSUPA&HSDPA) modes is provided in the tables below. According to the FCC 3G procedures, handsets with both HSDPA and HSUPA should be tested according to Release 6 HSPA test procedures, and the EUT does not support VOIP function over the HSPA function. Device was tested according to procedure KDB941225 - section Release 6 HSPA Data Devices as documented/evaluated in the following table. Power values for HSPA are less than ¼ dB higher than the basic 12.2 kbps RMC configurations in WCDMA.

WCDMA SAR Test mode - Conducted Power							
Mode	Setup	Cell band (850)			PCS band (1900)		
		CH4132	CH4182	CH4233	CH9262	CH9400	CH9538
		826.4 (MHz)	836.4 (MHz)	846.6 (MHz)	1852.4 (MHz)	1880.0 (MHz)	1907.6 (MHz)
R99- WCDMA	RMC 12.2Kbps	24.28	24.08	24.08	20.78	20.74	20.57
R5-HSDPA	HSDPA - subtest 1	24.15	24.07	23.98	20.90	20.76	20.78
	HSDPA - subtest 2	23.59	23.33	23.44	20.88	20.71	20.73
	HSDPA - subtest 3	23.60	23.45	23.36	20.43	20.27	20.24
	HSDPA - subtest 4	23.45	23.27	23.20	20.38	20.24	20.26
R6- HSPA (HSUPA&HSDPA)	HSUPA - subtest 1	23.88	23.78	23.70	20.49	20.52	20.24
	HSUPA - subtest 2	21.53	21.46	21.36	18.45	18.54	18.18
	HSUPA - subtest 3	22.58	22.38	22.33	19.43	19.51	19.26
	HSUPA - subtest 4	22.16	21.85	21.82	18.49	18.58	18.24
	HSUPA - subtest 5	23.81	23.75	23.74	20.48	20.50	20.18



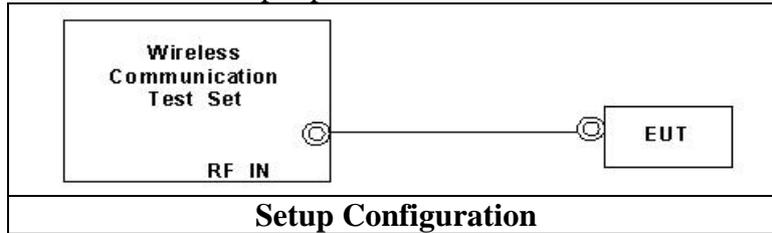
The EUT was tested according to the requirements of the FCC 3G procedures and the 3.1.2.3.4. A detailed analysis of the output power verification is provided as the table below:

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration		Service Option	Data Rates (kbps)	Power Control	Low Ch	Midd Ch	High Ch
			Forward Traffic Channel (Fwd)	Reverse Traffic Channel (Rvs)				1013	334	777
CDMA2000 Cellular	FCH	1	1	1	55	Full	All Up	24.46	24.27	24.45
		3	3	3	55	Full	All Up	24.47	24.22	24.44
	FCH+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	23.63	23.42	23.72
	EVDO Rev.0*	Subtype:0				UL:9.6	All Up	24.41	24.24	24.35
	EVDO Rev.0*	Subtype:0				UL:38.4	All Up	24.36	24.17	24.33
	EVDO Rev.0*	Subtype:0				UL:153.6	All Up	24.33	24.07	24.14
	EVDO Rev.A*	Subtype:0				RETAP_128Kbps	All Up	24.57	24.44	24.58
	EVDO Rev.A*	Subtype:0				RETAP_2048Kbps	All Up	24.61	24.37	24.45
EVDO Rev.A*	Subtype:0				RETAP_12288Kbps	All Up	24.42	24.48	24.55	

Function Type	Reverse Traffic Channel	Test Mode	Radio Configuration		Service Option	Data Rates (kbps)	Power Control	Low Ch	Midd Ch	High Ch
			Forward Traffic Channel (Fwd)	Reverse Traffic Channel (Rvs)				25	600	1175
CDMA2000 PCS	FCH	1	1	1	55	Full	All Up	18.01	16.34	17.86
		3	3	3	55	Full	All Up	17.86	16.16	17.83
	FCH+SCH	3	3	3	32	FCH:Full,SCH 9.6	All Up	17.83	16.02	17.87
	EVDO Rev.0*	Subtype:0				UL:9.6	All Up	18.37	16.32	18.42
	EVDO Rev.0*	Subtype:0				UL:38.4	All Up	18.18	16.25	18.15
	EVDO Rev.0*	Subtype:0				UL:153.6	All Up	17.74	16.02	17.73
	EVDO Rev.A*	Subtype:0				RETAP_128Kbps	All Up	18.59	16.53	18.64
	EVDO Rev.A*	Subtype:0				RETAP_2048Kbps	All Up	18.54	16.61	18.57
EVDO Rev.A*	Subtype:0				RETAP_12288Kbps	All Up	18.31	16.27	18.47	

WCDMA Setup Configuration:

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting
 - i. Data rates: Varied from RMC 12.2Kbps.
 - ii. RMC Test Loop=Loop Mode 1
 - iii. Power Ctrl Mode= All Up bits.
- d. The transmitted maximum output power was recorded.



HSDPA Setup Configuration:

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting:
 - i. Set Gain Factors(β_c , and β_d) and parameters were set according to each
 - ii. Specific sub-test in the following table, C10.1.4, quoted from the TS 34.121.
 - iii. Set RMC12.2Kbps + HSDPA mode.
 - iv. Set Cell Power = -86 dBm
 - v. Set HS-DSCH Configuration Type to FRC (H-set 1, QPSK)
 - vi. Select HSDPA Uplink Parameters.
 - vii. Set DeltaACK , DeltaNACK and DeltaCQI =8.
 - viii. Set Ack-Nack Repetition Factor to 3
 - ix. Set CQI Feedback Cycle (k) to 4 ms
 - x. Set CQI Repetition Factor to 2 .
 - xi. Power Ctrl Mode= All Up bits.
- d. The transmitted maximum output power was recorded.

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1, Note 2)	CM (dB) (Note 3)	MPR (dB) (Note 3)
1	2/15	15/15	64	2/15	4/15	0.0	0.0
2	12/15 (Note 4)	15/15 (Note 4)	64	12/15 (Note 4)	24/15	1.0	0.0
3	15/15	8/15	64	15/8	30/15	1.5	0.5
4	15/15	4/15	64	15/4	30/15	1.5	0.5

Note 1: Δ_{ACK} , Δ_{NACK} and Δ_{CQI} = 30/15 with $\beta_{HS} = 30/15 * \beta_c$.

Note 2: For the HS-DPCCH power mask requirement test in clause 5.2C, 5.7A, and the Error Vector Magnitude (EVM) with HS-DPCCH test in clause 5.13.1A, and HSDPA EVM with phase discontinuity in clause 5.13.1AA, Δ_{ACK} and Δ_{NACK} = 30/15 with $\beta_{HS} = 30/15 * \beta_c$, and Δ_{CQI} = 24/15 with $\beta_{HS} = 24/15 * \beta_c$.

Note 3: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{HS}/\beta_c = 24/15$. For all other combinations of DPDCCH, DPCCH and HS-DPCCH the MPR is based on the relative CM difference. This is applicable for only UEs that support HSDPA in release 6 and later releases.

Note 4: For subtest 2 the β_c/β_d ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_d = 15/15$.

Setup Configuration

HSPA (HSUPA & HSPDA) Setup Configuration:

- a. The EUT was connected to Base Station referred to the drawing of Setup Configuration.
- b. The RF path losses were compensated into the measurements.
- c. A call was established between EUT and Base Station with following setting * :
 - i. Call Configs = 5.2B, 5.9B, 5.10B, and 5.13.2B with QPSK
 - ii. Set the Gain Factors (β_c , and β_d) and parameters (AG Index) were set according to each specific sub-test in the following table, C11.1.3, quoted from the TS 34.121.
 - iii. Set Cell Power = -86 dBm
 - iv. Set Channel Type = 12.2k + HSPA
 - v. Set UE Target Power
 - vi. Power Ctrl Mode= Alternating bits.
 - vii. Set and observe the E-TFCI
 - viii. Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1, and other subtests' E-TFCI.
- d. The transmitted maximum output power was recorded.

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (Note 1)	β_{ec}	β_{ed} (Note 5) (Note 6)	β_{ed} (SF)	β_{ed} (Codes)	CM (dB) (Note 2)	MPR (dB) (Note 2)	AG Index (Note 6)	E-TFCI
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/25	1309/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	β_{ed1} : 47/15 β_{ed2} : 47/15	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15, \beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signalled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: In case of testing by UE using E-DPDCH Physical Layer category 1, Sub-test 3 is omitted according to TS25.306 Table 5.1g.

Note 6: β_{ed} can not be set directly, it is set by Absolute Grant Value.

Setup Configuration

Note: For details settings in the Agilent 8960 test equipment, please refer to the user guide “HSUPA Measurement Guide with 8960 V7.5.0 Release 7 (2007-06) Ver.: v.02.18”

Call Setup Screen																								
Call Control	Active Cell Operating Mode				Call Parms																			
Channel (UARFCN) Info	<table border="1"> <thead> <tr> <th colspan="2">UE Information</th> </tr> </thead> <tbody> <tr> <td>INSI:</td> <td></td> </tr> <tr> <td>INEI:</td> <td></td> </tr> <tr> <td>Power Class:</td> <td></td> </tr> </tbody> </table>				UE Information		INSI:		INEI:		Power Class:		Cell Power											
UE Information																								
INSI:																								
INEI:																								
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Cell Parameters	<table border="1"> <thead> <tr> <th colspan="2">UE Expected Open Loop Transmit Power</th> </tr> </thead> <tbody> <tr> <td>Initial PRACH TX Power:</td> <td>-11.70 dBm</td> </tr> <tr> <td>Initial DPCCH TX Power:</td> <td>-0.56 dBm</td> </tr> </tbody> </table>				UE Expected Open Loop Transmit Power		Initial PRACH TX Power:	-11.70 dBm	Initial DPCCH TX Power:	-0.56 dBm	-86.00 dBm/3.84 MHz													
UE Expected Open Loop Transmit Power																								
Initial PRACH TX Power:	-11.70 dBm																							
Initial DPCCH TX Power:	-0.56 dBm																							
Generator Info	<table border="1"> <thead> <tr> <th>Uplink Parameters</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>PRACH Preambles</td> <td>64</td> </tr> <tr> <td>PRACH Ramping Cycles(NMAX)</td> <td>2</td> </tr> <tr> <td>Available Subchannels (Bit Mask)</td> <td>000000000001</td> </tr> <tr> <td>Uplink DPCCH Scrambling Code</td> <td>0</td> </tr> <tr> <td>Uplink DPCCH Bc/Bd Control</td> <td>Manual</td> </tr> <tr> <td>Manual Uplink DPCCH Bc</td> <td>11</td> </tr> <tr> <td>Manual Uplink DPCCH Bd</td> <td>15</td> </tr> <tr> <td>Maximum Uplink Transmit Power Level</td> <td>21 dBm</td> </tr> </tbody> </table>				Uplink Parameters	Value	PRACH Preambles	64	PRACH Ramping Cycles(NMAX)	2	Available Subchannels (Bit Mask)	000000000001	Uplink DPCCH Scrambling Code	0	Uplink DPCCH Bc/Bd Control	Manual	Manual Uplink DPCCH Bc	11	Manual Uplink DPCCH Bd	15	Maximum Uplink Transmit Power Level	21 dBm	Channel Type 12.2k + HSPA	
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Uplink Parameters					Paging Service RB Test Mode																			
UE Rep Neas					HSPA Parameters																			
Close Menu					34,121 Preset Call Configs																			
	<table border="1"> <tr> <td colspan="2">Active Cell</td> <td colspan="2">Sys Type: UTRA FDD</td> </tr> <tr> <td colspan="2">Idle</td> <td colspan="2"></td> </tr> </table>				Active Cell		Sys Type: UTRA FDD		Idle				Channel (UARFCN) Parms											
Active Cell		Sys Type: UTRA FDD																						
Idle																								
2 of 4	<table border="1"> <tr> <td>IntRef</td> <td>Offset</td> <td></td> <td></td> </tr> </table>				IntRef	Offset			1 of 3															
IntRef	Offset																							

Example for HSPA Subtest 1, and other subtests following table, C11.1.3 (Gain Factors ($\beta_c = 11$ and $\beta_d = 15$))

Call Setup Screen																								
Call Control	Active Cell Operating Mode				Serving Grant																			
Additional Screens	<table border="1"> <thead> <tr> <th colspan="2">UE Information</th> </tr> </thead> <tbody> <tr> <td>INSI:</td> <td></td> </tr> <tr> <td>INEI:</td> <td></td> </tr> <tr> <td>Power Class:</td> <td></td> </tr> </tbody> </table>				UE Information		INSI:		INEI:		Power Class:		AG Mode											
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Generator Info	<table border="1"> <thead> <tr> <th colspan="2">Call Processing Status</th> </tr> </thead> <tbody> <tr> <td>Current Service Type:</td> <td>None</td> </tr> <tr> <td>MM Status:</td> <td>Abs Single Shot AG</td> </tr> <tr> <td>GM State:</td> <td>Index 15: (67/15)^2</td> </tr> <tr> <td>Current DPCCH</td> <td>Index 16: (75/15)^2</td> </tr> <tr> <td>HSUPA In</td> <td>Index 17: (84/15)^2</td> </tr> <tr> <td>UE Rep E-DCH</td> <td>Index 18: (95/15)^2</td> </tr> <tr> <td>Last Received Throughput:</td> <td>Index 19: (106/15)^2</td> </tr> <tr> <td>ACKs Transmitted:</td> <td>Index 20: (119/15)^2</td> </tr> </tbody> </table>				Call Processing Status		Current Service Type:	None	MM Status:	Abs Single Shot AG	GM State:	Index 15: (67/15)^2	Current DPCCH	Index 16: (75/15)^2	HSUPA In	Index 17: (84/15)^2	UE Rep E-DCH	Index 18: (95/15)^2	Last Received Throughput:	Index 19: (106/15)^2	ACKs Transmitted:	Index 20: (119/15)^2	Single Shot AG 20: (119/15)^2	
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Uplink Parameters					Send Single Shot Absolute Grant																			
UE Rep Neas					Send Relative Grant Up																			
Trig Output Setup					Send Relative Grant Down																			
Sys Frame Clock					Return																			
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IntRef	Offset																							

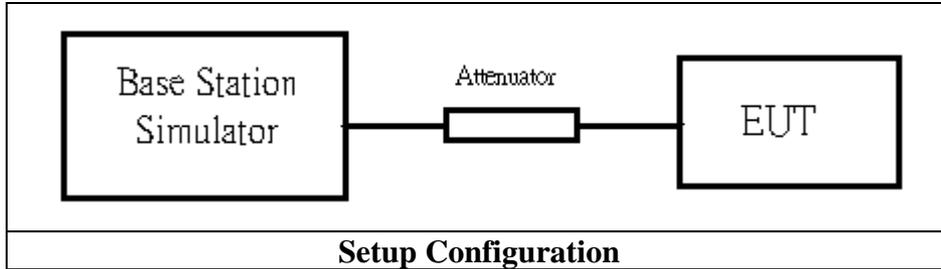
Example: AG – Index = 20 for HSPA subtest 1



Call Setup Screen						
Screen Ctrl	Recorded E-TFCI Information					E-TFCI Record
Channel (UARFCN) Info	E-TFCI Recording State					E-TFCI Rec Count
	Idle					15
HSPA Information	Recorded E-TFCI Values					Start Recording E-TFCI Values
E-TFCI Recording Information	1: 75	11: 75	21: ----	31: ----	41: ----	Send Step Up TPC Bit Pattern Send Step Down TPC Bit Pattern Return
	2: 75	12: 75	22: ----	32: ----	42: ----	
	3: 75	13: 75	23: ----	33: ----	43: ----	
	4: 75	14: 75	24: ----	34: ----	44: ----	
	5: 75	15: 75	25: ----	35: ----	45: ----	
	6: 75	16: ----	26: ----	36: ----	46: ----	
	7: 75	17: ----	27: ----	37: ----	47: ----	
	8: 75	18: ----	28: ----	38: ----	48: ----	
	9: 75	19: ----	29: ----	39: ----	49: ----	
	10: 75	20: ----	30: ----	40: ----	50: ----	
Clear UE Info	15/15					
Return						Return
	Background	Active Cell Connected		Sys Type: UTRA FDD		
			IntRef	Offset		

Example: Confirm that E-TFCI is equal to the target E-TFCI of 75 for sub-test 1

CDMA2000 Setup Configuration:



2. The EUT was connected to Base Station, Agilent 8960.
Refer to the drawing of Setup Configuration.
3. The RF path losses were compensated into the measurements.
4. A call was established between EUT and Base Station with following setting:
 - a. Set the test mode 1 and test mode 3.
 - b. Set the Power control All Up for (FCH) and (FCH+SCH).
5. The transmitted maximum output power was recorded.

Call Setup Screen														
Call Control	Active Cell Operating Mode	Call Parms												
Close Menu	Mobile Station Information ESN (Hex): 0x6C32D3AE ESN (Dec): 108-03330990 MCC: MNC: MSIN: 3163712588 Slot Class: Slotted Slot Cycle Index: 2													
	FCH Service Option Setup													
	<table border="1"> <thead> <tr> <th>Service Option</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Service Option for Fud1, Rvs1</td> <td>S055 (Loopback)</td> </tr> <tr> <td>Service Option for Fud2, Rvs2</td> <td>S09 (Loopback)</td> </tr> <tr> <td>Service Option for Fud3, Rvs3</td> <td>S032 (+ SCH)</td> </tr> <tr> <td>Service Option for Fud4, Rvs3</td> <td>S055 (Loopback)</td> </tr> <tr> <td>Service Option for Fud5, Rvs4</td> <td>S055 (Loopback)</td> </tr> </tbody> </table>		Service Option	Value	Service Option for Fud1, Rvs1	S055 (Loopback)	Service Option for Fud2, Rvs2	S09 (Loopback)	Service Option for Fud3, Rvs3	S032 (+ SCH)	Service Option for Fud4, Rvs3	S055 (Loopback)	Service Option for Fud5, Rvs4	S055 (Loopback)
	Service Option	Value												
	Service Option for Fud1, Rvs1	S055 (Loopback)												
	Service Option for Fud2, Rvs2	S09 (Loopback)												
	Service Option for Fud3, Rvs3	S032 (+ SCH)												
	Service Option for Fud4, Rvs3	S055 (Loopback)												
	Service Option for Fud5, Rvs4	S055 (Loopback)												
	Protocol Rev 6 (IS-2000)													
Radio Config (Fud1, Rvs1) S055 (Loopback)														
FCH Service Option Setup														
<table border="1"> <tr> <td>Background</td> <td>Active Cell Idle</td> <td>Sys Type: IS-2000</td> </tr> <tr> <td></td> <td>IntRef Offset</td> <td></td> </tr> </table>		Background	Active Cell Idle	Sys Type: IS-2000		IntRef Offset								
Background	Active Cell Idle	Sys Type: IS-2000												
	IntRef Offset													
1 of 3														

Test Mode 1 in Radio Configuration 1 (FCH)



Call Setup Screen																						
Call Control	Active Cell Operating Mode	Call Parm																				
Operating Mode	<table border="1"> <thead> <tr> <th colspan="2">Mobile Station Information</th> </tr> </thead> <tbody> <tr> <td>ESN (Hex):</td> <td>0x6C32D3AE</td> </tr> <tr> <td>ESN (Dec):</td> <td>108-03330990</td> </tr> <tr> <td>NCC:</td> <td></td> </tr> <tr> <td>NMC:</td> <td></td> </tr> <tr> <td>NSIN:</td> <td>3163712588</td> </tr> <tr> <td>Slot Class:</td> <td>Slotted</td> </tr> <tr> <td>Slot Cycle Index:</td> <td>2</td> </tr> <tr> <td>Protocol Revision:</td> <td>6 (IS-2000_Rev0)</td> </tr> <tr> <td>Band Class:</td> <td>US Cell US PCS</td> </tr> </tbody> </table>	Mobile Station Information		ESN (Hex):	0x6C32D3AE	ESN (Dec):	108-03330990	NCC:		NMC:		NSIN:	3163712588	Slot Class:	Slotted	Slot Cycle Index:	2	Protocol Revision:	6 (IS-2000_Rev0)	Band Class:	US Cell US PCS	Cell Power
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Protocol Revision:		6 (IS-2000_Rev0)																				
Band Class:	US Cell US PCS																					
Active Cell		-86.00																				
System Type		dBm/1.23 MHz																				
IS-2000		Cell Band																				
		US PCS																				
End Call		Channel																				
		1175																				
Paging IMSI Setup		Protocol Rev																				
		6 (IS-2000)																				
Handoff Setup		Radio Config																				
		(Fud3, Rvs3)																				
		S032 (+ SCH)																				
		FCH Service Option Setup																				
	Background	Active Cell																				
		Connected + Data																				
		Sys Type: IS-2000																				
1 of 2	IntRef	Offset																				
		1 of 3																				

Test Mode 3 in Radio Configuration 3 (Service Option32)

Call Setup Screen																																				
Call Control	Active Cell Operating Mode	Call Parm																																		
Operating Mode	<table border="1"> <thead> <tr> <th colspan="2">Access Terminal Information (AT Reported)</th> </tr> </thead> <tbody> <tr> <td>Session Seed:</td> <td>0x7722375A</td> </tr> <tr> <td>Hardware ID Type (Hex):</td> <td>0x010000 ESM</td> </tr> <tr> <td>Hardware ID (Hex):</td> <td>0x6020699F</td> </tr> <tr> <td>Hardware ID (Decimal):</td> <td>096-02976159</td> </tr> <tr> <th colspan="2">Access Terminal Information (AN Assigned)</th> </tr> <tr> <td>UATI 024:</td> <td>2</td> </tr> <tr> <td>UATI Color Code:</td> <td>64</td> </tr> <tr> <td>MAC Index:</td> <td>5</td> </tr> <tr> <th colspan="2">Access Terminal Information (User Entered)</th> </tr> <tr> <td>AT Max Power:</td> <td>23 dBm/1.23 MHz</td> </tr> <tr> <th colspan="2">Application Configuration</th> </tr> <tr> <td>Session Application Type:</td> <td>Test Application</td> </tr> <tr> <td>Test Application Protocol:</td> <td>RTAP</td> </tr> <tr> <td>Limited TAP:</td> <td>Off</td> </tr> <tr> <td>AT Directed Packets:</td> <td>50 %</td> </tr> <tr> <td>ACK Channel Bit Fixed Mode Attribute:</td> <td>On</td> </tr> </tbody> </table>	Access Terminal Information (AT Reported)		Session Seed:	0x7722375A	Hardware ID Type (Hex):	0x010000 ESM	Hardware ID (Hex):	0x6020699F	Hardware ID (Decimal):	096-02976159	Access Terminal Information (AN Assigned)		UATI 024:	2	UATI Color Code:	64	MAC Index:	5	Access Terminal Information (User Entered)		AT Max Power:	23 dBm/1.23 MHz	Application Configuration		Session Application Type:	Test Application	Test Application Protocol:	RTAP	Limited TAP:	Off	AT Directed Packets:	50 %	ACK Channel Bit Fixed Mode Attribute:	On	Cell Power
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AT Directed Packets:	50 %																																			
ACK Channel Bit Fixed Mode Attribute:	On																																			
Active Cell		-60.00																																		
		dBm/1.23 MHz																																		
		Cell Band																																		
		US PCS																																		
Start Data Connection		Channel																																		
		675																																		
Close Session		Application Config																																		
Handoff Setup		FTAP Rate																																		
		307.2 kbps																																		
		(2 Slot, QPSK)																																		
AT Max Power		RTAP Rate																																		
23 dBm/1.23 MHz		153.6 kbps																																		
	Background	Active Cell																																		
		Session Open																																		
		Sys Type: IS-856																																		
		Logging: No Conn.																																		
1 of 3	IntRef	Offset																																		
		RTAP																																		
		1 of 3																																		

1xEV-DO setting with RTAP 153.6kbps



Reference:

- [1] 941225 D01 SAR test for 3G devices v02, SAR Measurement Procedures for 3G Devices CDMA 2000/Ev-Do/WCDMA/HSDPA/HSPA Oct. 2007 Laboratory Division Office of Engineering and Technology Federal Communications Commission
- [2.] TS 34.121 Universal Mobile Telecommunications System (UMTS); Terminal Conformance Specification, Radio Transmission and Reception (FDD)
- [3.] HSUPA Measurement Guide with 8960 V7.5.0 Release 7 (2007-06) Ver.: v.02.18
- [4.] 3.1.2.3.4 Maximum RF Output Power 3GPP2 C.S0033-0 Version 2.0, Date: 12 December 2003 Recommended Minimum Performance Standards for cdma2000 High Rate Packet Data Access Terminal