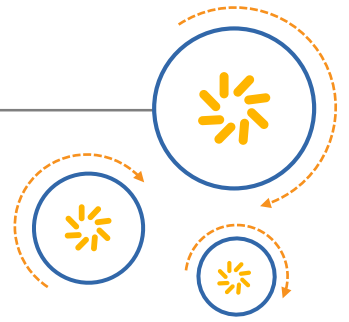




Qualcomm Technologies, Inc.



MSM8909 Linux Android Current Consumption Data

80-NP408-7 F

August 13, 2015

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Revision history

Revision	Date	Description
A	December 2014	Initial release
B	December 2014	Numerous changes were made to the document; must be read in its entirety
C	March 2015	Updated Section 2.3
D	April 2015	Updated Section 4.3
E	May 2015	<ul style="list-style-type: none">▪ Updated Section 2.3▪ Added Section 4.4
F	August 2015	<ul style="list-style-type: none">▪ Added Section 2.3.2▪ Added Sections 4.3.1 to 4.3.3

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1 Introduction

1.1 Purpose

This document provides the current consumption data for the MSM8909 device with AMSS 8909 software. The consumption is highly dependent on software optimization.

1.2 Conventions

Function declarations, function names, type declarations, attributes, and code samples appear in a different font, for example, `#include`.

Code variables appear in angle brackets, for example, `<number>`.

Shading indicates content that has been added or changed in this revision of the document.

1.3 Expectations

1.3.1 Device variation

The current consumption measurements recorded in this document are not expected to match either the current consumption measurements of a customer design or the current consumption measurements of another CDP of identical part numbers loaded with identical software.

Variations in consumption measurements when compared to the customer device are caused by the CDP using different components than the customer design, that is, memory ICs, display ICs, peripheral ICs, and so on. Potential variations in measurement when compared to an identical CDP loaded with identical software are caused by normal silicon process variations in both the Qualcomm Technologies, Inc. (QTI) and non-QTI components and power supply tolerances. Any differences in the measurement technique, equipment, or temperature also causes variations. Other factors, such as, floating CMOS inputs or taking measurements at maximum Tx power, can affect both the reliability and repeatability of current consumption measurements.

The targets and measurements contained herein are typical values measured on a single CDP in a lab bench environment (room temperature). They are provided as a relative reference point and not as an absolute goal to attain.

1.3.2 Test case selection

The test cases selected for measurement in this document are intended to provide a wide range of coverage. Although the specific conditions required by a customer may not appear in this list, there is a test case or combination of test cases which suit the customer requirement to be used for a baseline comparison.

1.4 Customer platform power optimization

Customer platform power optimization starts with comparisons to the QTI platform under one or more baseline test conditions provided in this document. When the customer platform and CDP8909 platform have been compared and optimized in this known test case, then the differences between baseline and required test cases can be measured on the customer platform and analyzed with QTI for optimization, if necessary.

Power optimization of a customer platform is an iterative process. The process involves:

- Identifying power consumption differences between a customer and QTI platform in similar test conditions
- Determining the source of those differences; these could be test conditions, hardware configuration differences, software control differences, and so on.
- Deciding whether the source is an error that must be corrected, or is it intentional
- Correcting errors that are identified
- Repeating until all differences are corrected or determined to be intentional

As customers update their hardware platform or integrate new software releases from QTI, power consumption may change, triggering additional power optimization. It is necessary to note that during the software development process, current consumption for some test cases may increase, as power improvement features may need to be delayed to a later release to meet stability requirements. [Figure 1-1](#) is an example of customer power consumption vs CDP power consumption.

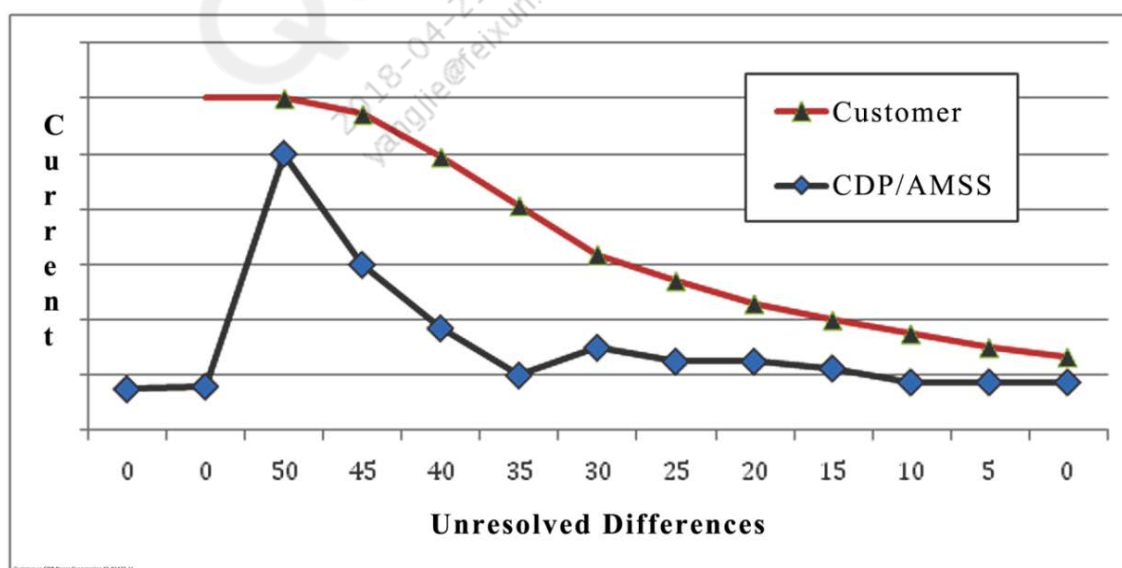


Figure 1-1 Representation of customer vs CDP power consumption

When discussing power optimization with QTI, it is necessary to provide detailed information, including:

- Specific test conditions
- Available history of power measurements for these test conditions
- Goals for power optimization
- Recent hardware or software changes that may have affected power consumption
- Power consumption breakdown per voltage rail, if possible

1.5 Publication timeline for power measurement data

This document will be updated monthly with the latest available current consumption goals and battery-level measurements. Following the Feature Complete (FC) software release, key power rail breakdowns will be included once available. Measurement of these power rail breakdowns depend upon customer requests for specific test cases and software releases. Table 1-1 lists the publication timeline for current consumption data.

Table 1-1 Timeline for publishing current consumption data

Information provided	Guidelines for availability
Target current consumption for commercial software release	Available at the time of hardware engineering samples
Battery-level measured values for Table 3-1 test cases	Available for FC software release, and for major software release thereafter; these measurements can also be found within the software release notes
Key power rail breakdowns for Table 3-1 test cases	Will be available on an as-requested basis for FC and later software releases; submit requests at https://support.cdmatech.com

1.6 Note regarding GPIO configuration

To minimize current consumption, the user must configure any and all unused GPIOs in one of the following ways:

- As outputs in their Logic Low state
- As inputs with their internal pull-downs enabled

In addition, any GPIO pin configured as an input that is driven by a peripheral device (Bluetooth (BT), WLAN, NFC, and so on) must be programmed with an internal pull-down, whenever the corresponding peripheral signal is set to its High Impedance state. The GPIO must be reprogrammed to remove the pull-down when the peripheral signal is taken out of its High Impedance state.

These steps are required to prevent unwanted oscillation or high current leakage on the device's pins. For additional information, see [Q3].

1.6.1 Submitting core modem power consumption measurement requests

To submit a request for a power measurement, not currently found in this document, open a Wireless Device Support Case at <https://support.cdmatech.com>. The following information must be included in the case:

- Correct chipset, AMSS software build ID, and Operating System (OS)
- Initial problem type – Software
- Problem area 1 – BSP/HLOS
- Problem area 2 – Power (BSP/HLOS)
- Problem area 3 – Customer-appropriate selection
- Problem Description field – Include battery level or breakdown and test case

Priority is given to standard test cases, as listed in [Table 3-1](#), and the measurement is provided within one week. Requests for nonstandard test conditions are evaluated on a case-by-case basis.

1.6.2 Submitting multimedia power consumption measurement requests

To submit a request for a multimedia power measurement not currently found in this document, open a Wireless Device Support Case at <https://support.cdmatech.com>. The following information must be included in the case:

- Correct chipset, AMSS software build ID, and OS
- Initial problem type = Software
- Problem area 1 = Multimedia
- Problem area 2 = Power
- Problem area 3 = Customer appropriate selection
- Problem Description field – Include battery level or breakdown and test case

Priority is given to standard test cases, as listed in [Table 3-1](#), and the measurement is provided within one week. Requests for nonstandard test conditions are evaluated on a case-by-case basis.

1.7 Acronyms

For definitions of terms and abbreviations, see [Q1].

1.8 Technical assistance

For assistance or clarification on information in this document, submit a case to Qualcomm Technologies, Inc. (QTI) at <https://createpoint.qti.qualcomm.com/>.

If you do not have access to the CDMATech Support website, register for access or send email to support.cdmatech@qti.qualcomm.com.

2 Test setup

2.1 Devices used for testing

The following hardware and software configurations are used for the measurements:

- MSM8909 and PM8909/PM8916-1 devices, installed on the specially configured CDP8909 Resistive Current Measurement (RCM) evaluation platform, for power measurement purposes only.
- Various MSM8909 AMSS software releases as defined throughout this document, along with the current consumption data being presented.
- Display resolution with memory configuration used are 720p DSI with 1 GB LPDDR2 and qHD DSI (960 x 540) with 512 MB LPDDR2; dumb panel, Portrait mode panel orientation.
- The current consumption measurement is performed using the QTI Kratos power measurement system on the CDP-RCM (or RCM) platform.

[Table 2-1](#) lists the chipset's devices used on the CDP8909 power measurement platform for each set of tests.

NOTE: Throughout this document, the phrase *MSM8909 chipset* refers to the combination of devices listed in [Table 2-1](#).

Table 2-1 Chipset ICs tested

QTI IC
MSM8909
PM8909/PM8916-1
WTR4905
WCN3610

2.2 Air interface test equipment

Chipset current consumption is measured with the MSM8909 platform configured for an air interface operating in a specific mode. The tested modes are defined in Chapter 3. The test equipment used to emulate the air interface is:

- Most CDMA measurements – Agilent 8960 *Wireless Communications Test Set*
- Most LTE measurements – Anritsu MT8820C
- Most WCDMA measurements – Agilent 8960 or the Anritsu MT8820C *Radio Communication Analyzer*
- Most GSM measurements – Agilent 8960 or Anritsu MT8820C

2.3 Power tree

The current consumption numbers listed in the power tree are estimated worst-case currents. These numbers are preliminary and are intended for PCB routing reference only.

- The total peak branch current from regulator (SMPS or LDO) may exceed PMIC rated current for some power rails, which is expected. It is also expected that there is no real use-case that leads to all loads to have maximum current at the same time.
- Refer to *PM8909 Power Management IC Device Specification* (80-NP409-1) for maximum SMPS and LDO ratings.
- The actual currents from the 3rd party components (eMMC, LCD, camera, and sensors, and so on) may be different from what is shown in the power grid.

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2.3.1 MSM8909 + PM8909 power tree

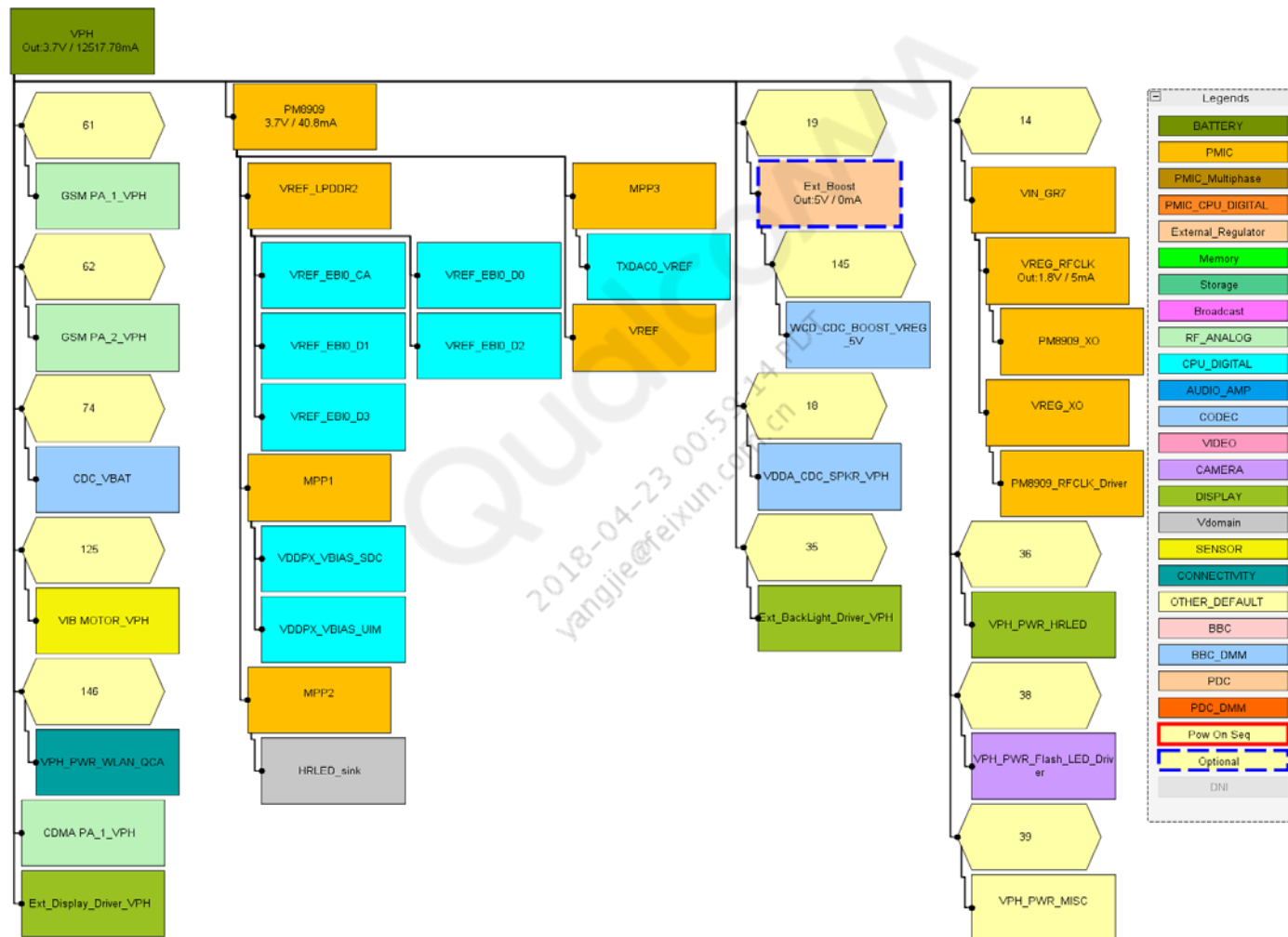


Figure 2-1 MSM8909 + PM8909 power tree – 1

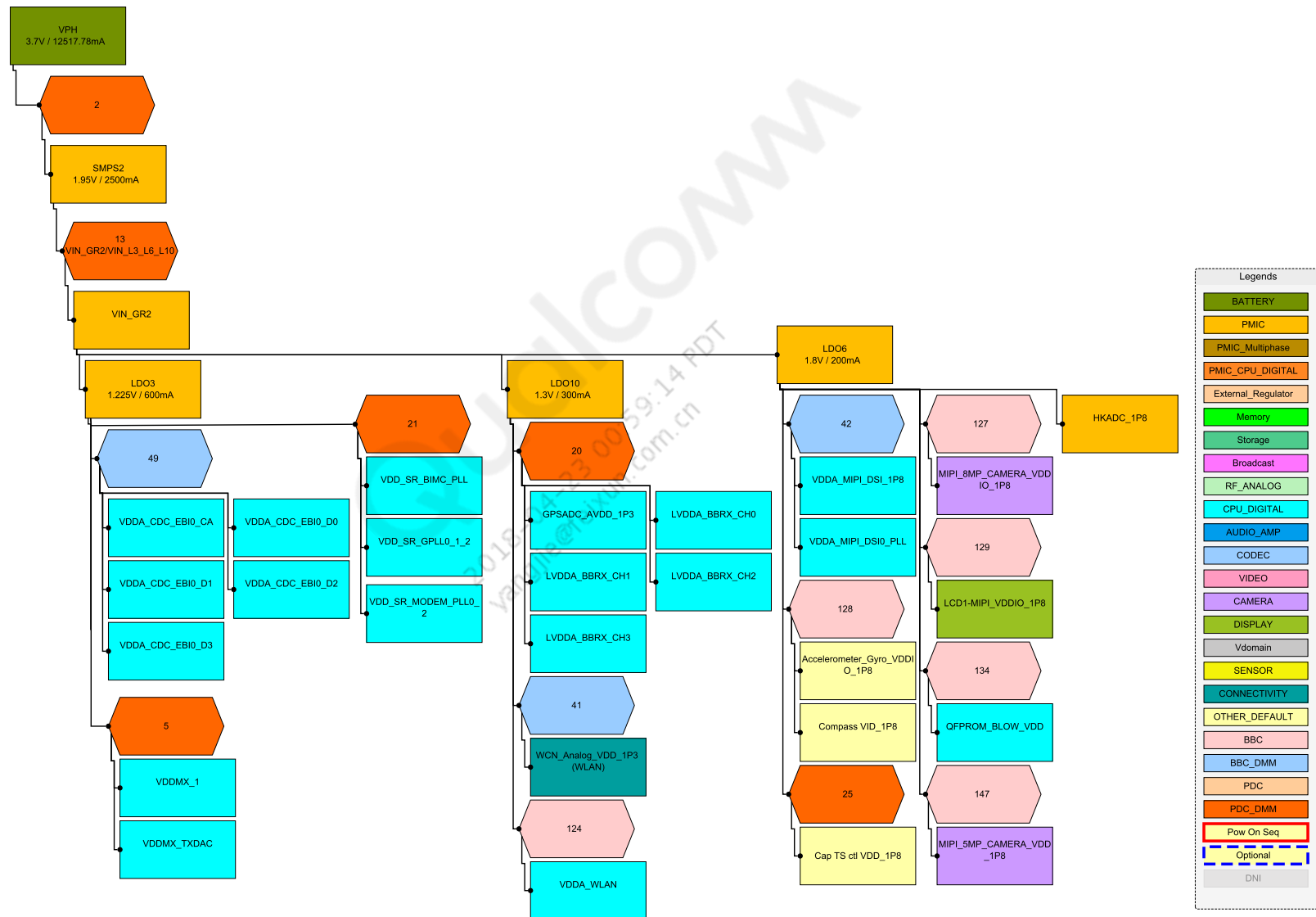
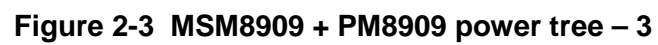


Figure 2-2 MSM8909 + PM8909 power tree – 2



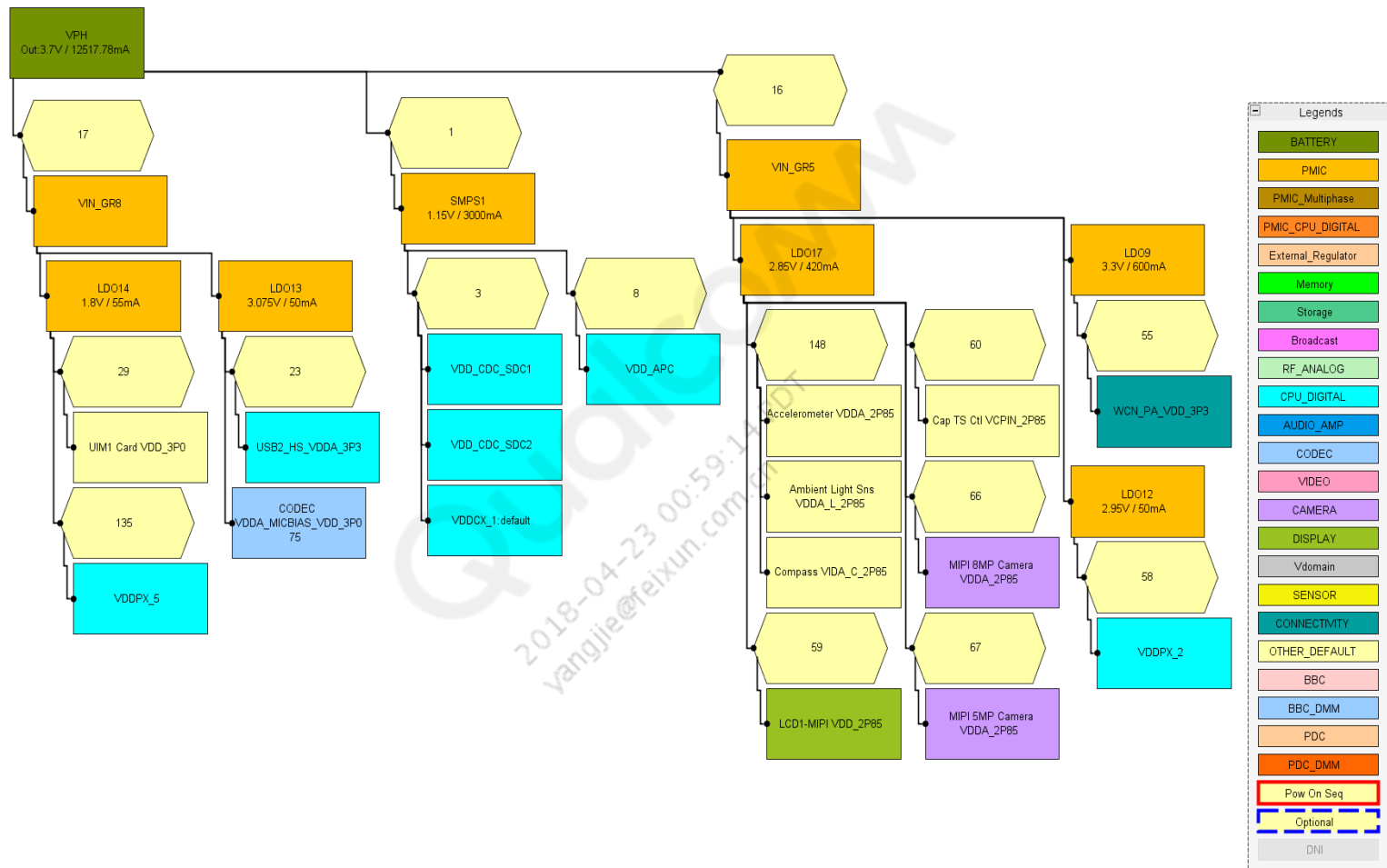
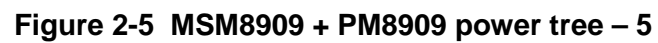


Figure 2-4 MSM8909 + PM8909 power tree – 4



2.3.2 MSM8909 + PM8916-1 power tree

NOTE: This section was added to this document revision.

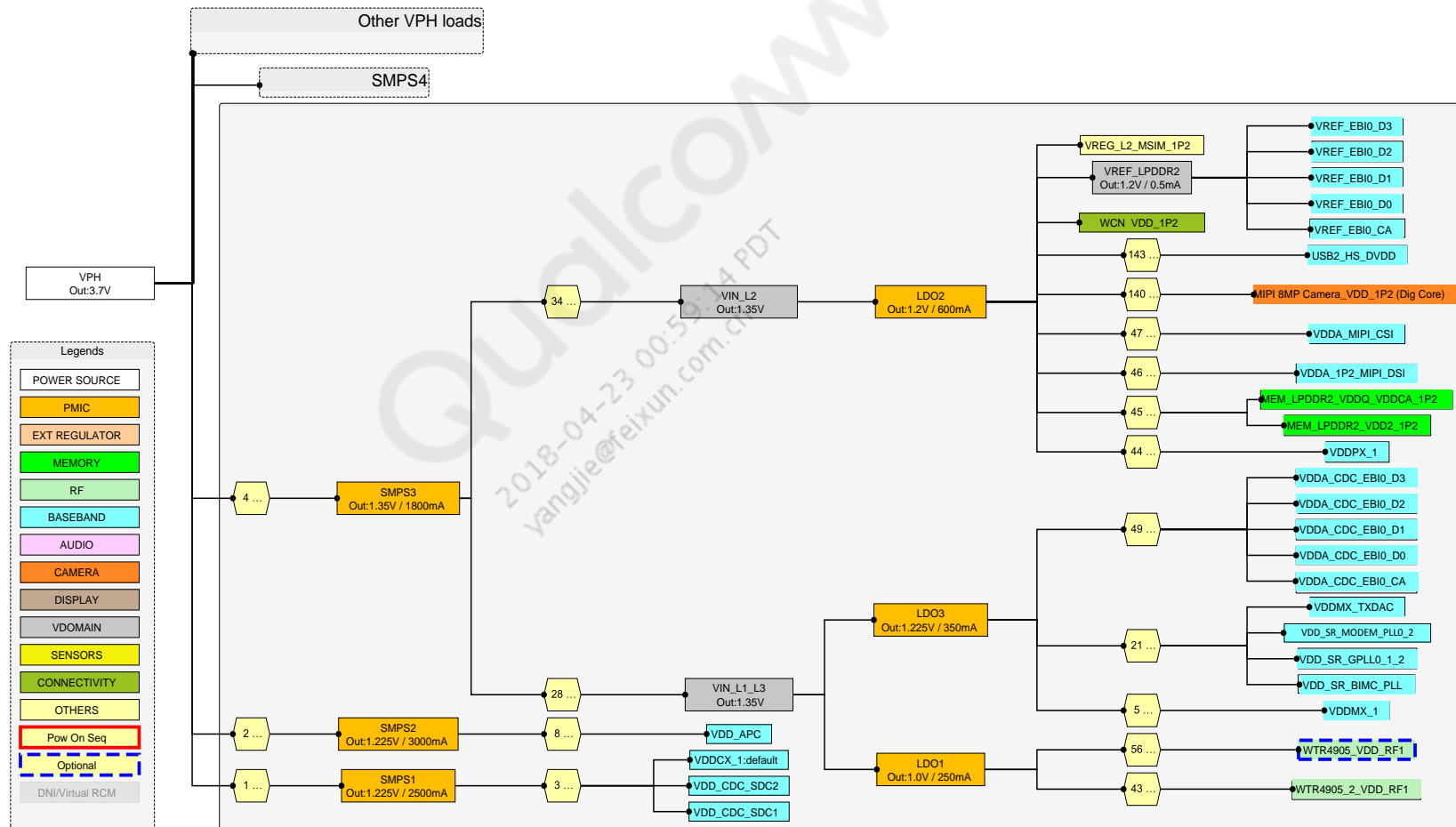


Figure 2-6 MSM8909 + PM8916-1 power tree – 1

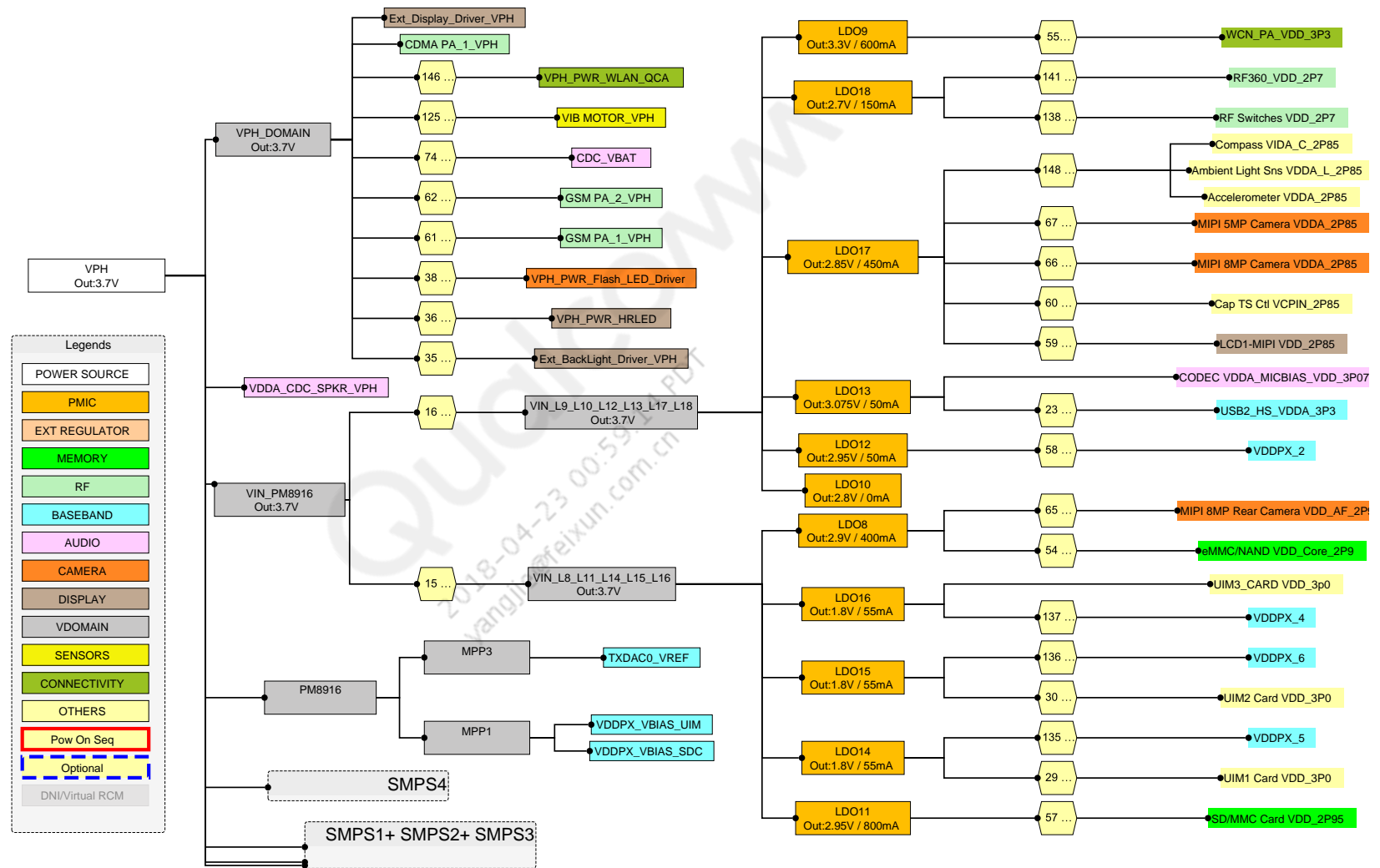


Figure 2-7 MSM8909 + PM8916-1 power tree – 2

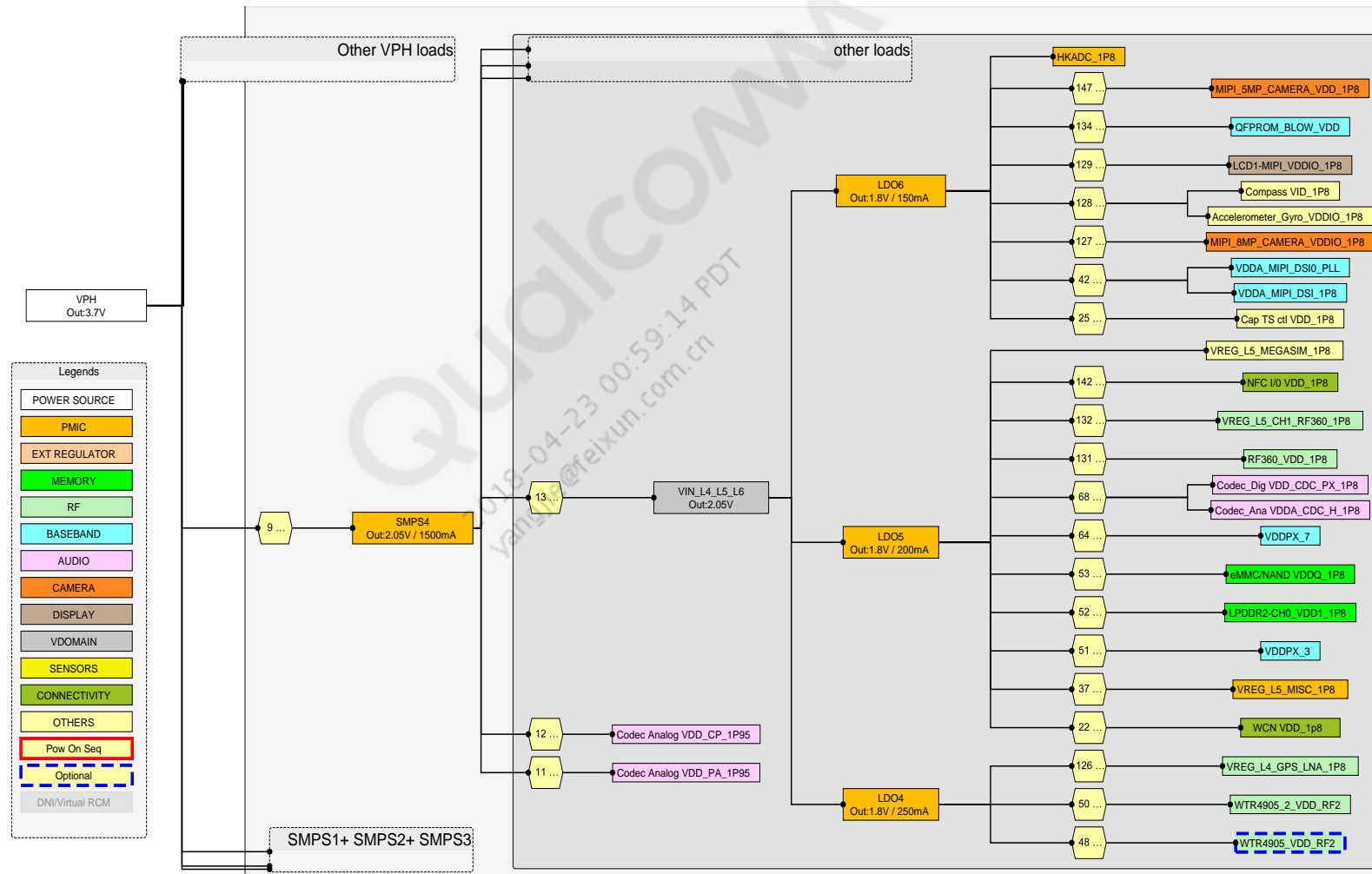


Figure 2-8 MSM8909 + PM8916-1 power tree – 3

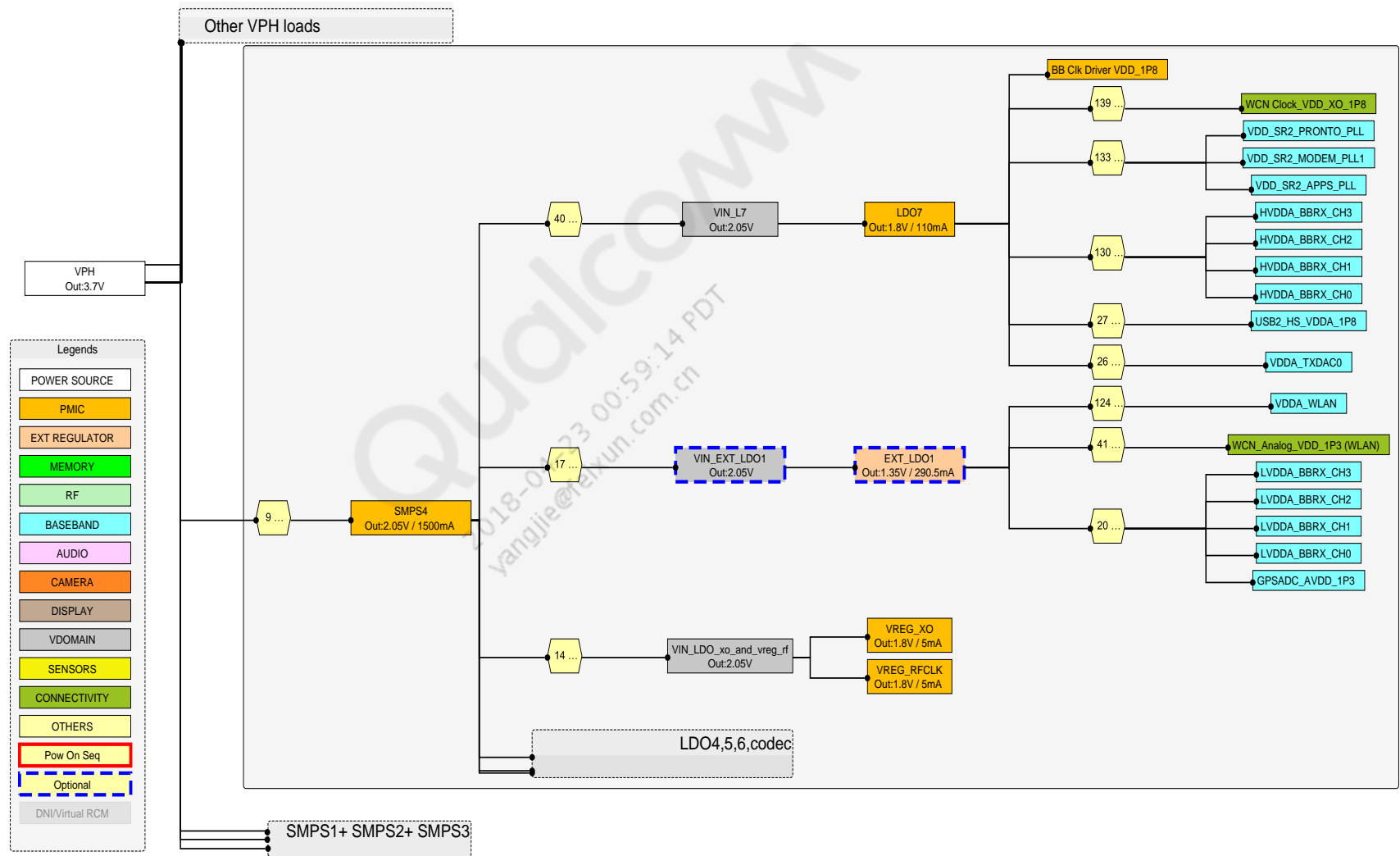


Figure 2-9 MSM8909 + PM8916-1 power tree – 4



3 Test definitions

Definitions of test conditions (air interface configuration, multimedia, display activity, lighting status, and so on) for the current consumption tests are listed in [Table 3-1](#).

Table 3-1 Test definitions

Test case	Code	Operating band	Definition
Sleep (Airplane mode, rock bottom)	AIR1	—	Airplane mode selected through UI; if no UI support, configure modem in Low Power mode with no wake-ups for paging processing; backlight and display off.
WCDMA standby 2.56 sec	WS1	IMT	WCDMA idle, Stationary A, Discontinuous Receive (DRx) 2.56 sec, RxAGC at phone ~ -50 dBm, duration 64 sec; Sintrasearch (intrafrequency) and Sintersearch (interfrequency) CPICH $E_c/I_0 < -10$ dB; backlight and display off.
WCDMA talk + 0 dBm, IMT	WT1	IMT	WCDMA AMR voice, muted, empty frames on uplink and downlink, total Tx 0 dBm, RxAGC at phone ~ -50 dBm, IMT, no Receive Diversity (Rx D); backlight and display off.
CDMA QPCH standby 5.12 sec	CS2	Cell	CDMA QPCH Standby mode, SCI = 2 (5.12 sec), RxAGC at phone ~ -50 dBm, single sector, no neighbors; cell band; backlight and display off.
EV-DO standby 5.12 sec	DS3	—	EV-DO (5.12 sec) only Standby mode. Rx AGC ~ -50 dBm, single sector, no neighbors. CELL band, duration 64 sec. Backlight and display off.
CDMA talk + 0 dBm, cell band	CT1	Cell	CDMA-only mode, muted, empty frames on uplink and downlink, total Tx = 0 dBm, RxAGC at phone ~ -50 dBm, EVRC RC3 full rate, no headset, cell band; backlight and display off.
GSM standby 1.18 sec	GS1	PGSM	GPRS standby, MFRM5 [1.17 sec], RxAGC at phone ~ -50 dBm, PGSM, no neighbor, duration 59 sec; backlight and display off.
GSM talk 5 dBm, no Discontinuous Transmit (DTx), PGSM	GT1	PGSM	GSM full-rate voice, muted, DTx off, empty frames on uplink and downlink, total Tx = 5 dBm, RxAGC at phone ~ -50 dBm, PGSM, 100% voice activity; backlight and display off.
TD-SCDMA standby 1.28 sec	TCS1	Band 34	TD-SCDMA Idle, Stationary A, DRX 1.28 sec, Rx power level -50 dBm at phone antenna connector, test duration 64 sec. Sintrasearch (intra frequency) and Sintersearch (inter frequency) CPICH E_c/I_0 is about -15 dB; backlight and display off.
TD-SCDMA talk 0 dBm, B34	TCT1	Band 34	TD-SCDMA voice, muted, empty frames on uplink and downlink, total Tx 0 dBm, Rx power level -50 dBm at phone antenna connector, IMT [B1]; backlight and display off.

Test case	Code	Operating band	Definition
HSDPA downlink 7.2 Mbps + 0 dBm, IMT (Rx/D/no Rx/D)	HS22E/ HS21E	IMT	HSDPA embedded, data socket initiated through the UI, downlink 7.2 Mbps, FTP, Tx = +0 dBm, no USB, Rx/D on/RxD off.
DC HSDPA downlink 42 Mbps + 0 dBm, IMT (No Rx/D)	HS61E	IMT	HSPA+ Cat 24 data socket initiated through UI, dual carrier [42 Mbps], UDP, 64 QAM, Rx/D off, IMT band.
TD-SCDMA HSDPA 2.8 Mbps	TDHS1E	B34/39	TD-SCDMA HSDPA at 2.8 Mbps, Tx 0 dBm, without USB, 16 QAM, Rx/D off, Band 34/39; backlight and display off.
LTE standby 2.56 sec	LS1	Band 13	LTE Standby mode, DRx = 2.56 sec, RxAGC at phone ~ -50 dBm, no neighbors, duration 64 sec; backlight and display off.
LTE TDD standby 2.56 sec	LS3	B41	LTE TDD Standby mode, DRx = 2.56 sec, ULDL2, SSF#7, B41, Rx power level -50 dBm at phone antenna connector, measurement duration 64 sec; Sintra = 0 and Snointra = 0, no neighbor cells, backlight and display off; EPRE = -50 dBm/kHz.
LTE Cat 3 (68/23 Mbps, + 0 dBm, B13)	LTE1E	Band 13	LTE data Cat 3, 2 x 2 MIMO, RB 50, MCS 28, 64 QAM, CP Normal; PCFICH 3sym, DCI 1A, Type 0, PHICH 1/6, Tx 0 dBm, downlink spectrum bandwidth 10 MHz; backlight and display off – Embedded.
LTE Cat 4 (150/50 Mbps, 0 dBm, B7)	LTE7E	Band 7	LTE data Cat 4, 2x2 MIMO, RB 100, MCS 28, 64 QAM, CP normal; PCFICH 3sym, DCI 1A, Type 0, PHICH 1/6, Tx 0 dBm, downlink spectrum bandwidth 20 MHz. Backlight and display off.- Embedded.
LTE TDD Cat 3 20 MHz (60/18 Mbps + 0 dBm, B41)	LTE5E	B41	LTE data Cat 3, ULDL1, SSF#7, 2x2 MIMO, RB 100, MCS 23, 64 QAM, B41, CP normal, PCFICH 3sym, DCI 1A, Type 0, PHICH 1/6, Tx 0 dBm, DL spectrum BW 20 MHz; backlight and display off.
LTE CA 10 MHz + 10 MHz	LTE8E	Band 4, 17	LTE carrier aggregation 10 MHz + 10 MHz (100/25 Mbps downlink and uplink respectively, B17 Tx + B4), 0 dBm
DSDS GSM + GSM – 0.47 sec + 0.47 sec	GGs2	—	GSM Slot1 – MFRM = 4 [0.47 sec], Rx AGC ~-50 dBm GSM Slot2 – MFRM = 2 [0.47 sec], Rx AGC ~-50 dBm GSM Band = PGSM Backlight and display off.
DSDS WCDMA + GSM – 0.64 sec + 0.47 sec	WGS3	—	WCDMA Band = IMT (B1); GSM Band = PGSM; WCDMA Slot1 – DRX = 0.64 sec, Rx AGC ~-50 dBm, GSM Slot2 – MFRM = 2 [0.47 sec], Rx AGC ~-50 dBm Sintrasearch (intrafrequency) and Sintersearch (interfrequency) CPICH E _c /I _o < -10 dB; backlight and display off.
TD-LTE (1.28 sec) + GSM (0.47 sec) Standby	LSGS1	—	LTE TDD Standby mode, DRX = 2.56 sec, ULDL1, SSF#7, B40, Rx power level -50 dBm at phone antenna connector, measurement duration 64 sec, no neighbor cells; backlight and display off + EPRE = -50 dBm/kHz GPRS standby, DRX [0.47 sec], RxAGC @ phone ~ -50 dBm, PGSM, No neighbor, duration 64 sec. Backlight and display off.

Test case	Code	Operating band	Definition
TD-SCDMA (0.64 sec) + GSM (0.47 sec) standby	TCSGS1	—	TD-SCDMA Idle, Stationary A, DRX 0.64 sec, Rx power level -50 dBm at phone antenna connector, Test duration 64 sec. CPICH Ec/Io is about -15 dB Backlight and display off + EPRE = -50 dBm/kHz + GPRS Standby, DRX [0.47 sec], RxAGC @ phone ~ -50 dBm, PGSM, No neighbor, duration 64 sec. Backlight and display off.
GPS 1 Hz Trk (DPO) with WCDMA standby	GPS2	IMT	GPS standalone 1 Hz tracking (DPO); GPS standalone 1 Hz tracking in strong signal conditions; backlight and display off.
GNSS 1 Hz Trk high sensitivity with WCDMA standby	GNSS1	IMT	GLONASS standalone 1 Hz tracking high sensitivity; backlight and display off.
MP3 playback 128 kbps TM	AU4A	—	MP3 at 44.1 kHz 128 kbps stereo; see [Q5].
Listen – 100% silence	AU34A		Listen keyword detection using 16 kHz mono signal, 100% silence, user-verification on, single keyword.
Listen – 100% speech	AU35A		Listen keyword detection using 16 kHz mono speech, 100% speech, user-verification on, single keyword.
HEVC 720p decode, 30 fps	QTC100A	—	30 fps at HD 720 H.265 3 Mbps, Headset mode, volume set to 50% (8/15 levels)
Video decode (H.264 720p, 30 fps)	QTC77A	—	30 fps at HD 720p H.264 10 Mbps AAC + 96 kbps 44.1 kHz stereo; see [Q6].
Video decode H.264 30 fps 1080p, 20 Mbps	QTC88A	—	30 fps at HD 1080p 20 Mbps AAC+ 96 kbps 44 kHz stereo; see [Q4].
H.264 720p encode, 30 fps	QMC15A	—	30 fps at HD 720p H.264 14 Mbps, AAC+
Graphics (3D UI full-screen resolution 30 fps [PowerLift]) – Comp. bypass	QGC23A	—	EXE, PowerLift 3D OpenGL ES Graphics Benchmark Tool V.4.6.01 for Linux Android-enabled devices; see [Q8].
3D Gfx Egypt 60 fps	QGC24A	—	Test scenario: 1. Set system in Airplane mode. 2. Check if the display is on. 3. Set Full screen mode of the platform, FPS (full speed, capped by platform VSYNC). Note: It is expected that every platform yields differing power results. These results are a function of LCD intensity, serial interface, display resolution of the screen and fps.
Static image display	LCD04A	—	Static image display, at full-screen resolution, at VSync
Accelerometer 10 Hz background processing	SNS5A	—	Test scenario: 1. Disable screen auto-rotate. 2. Set to Airplane mode. 3. Disable GPS. 4. Allow screen timeout when charging. 5. Set screen timeout to 1 min. 6. Power cycle the DUT. 7. Verify screen is off during test.

Test case	Code	Operating band	Definition
Accelerometer 15 Hz active processing	SNS4A	—	Airplane mode, display on, 15 Hz running using Qsensor test application.
Bluetooth (page scan + sniff) with WCDMA standby	BT2	IMT	Bluetooth headset bonded, connected, and UE accepting other Bluetooth connection requests; Bluetooth sniff cycle 1.28 sec and page scan cycle of 1.28 sec; backlight and display off.
WLAN DTIM1 with WCDMA standby	WLS1	IMT	Test scenario: 1. Turn on Airplane mode. 2. In the configuration file, set listen Interval to 100 ms and enable BET. 3. Turn on Wi-Fi and connect to the AP. 4. Turn off the display. Note: Measurement should be in a shielded environment.
Browser over Wi-Fi	WB1A	Wi-Fi	Loading and rendering of low complexity web page (no JavaScript, no Flash); reload every 40 sec (for video, refer to [Q9])
Video streaming over Wi-Fi	VS6A	Wi-Fi	Video streaming over Wi-Fi (720p 2.3 Mbps)
Note: All test codes ending in A were performed in Airplane mode.			

4 Chipset current consumption

4.1 Commercial software release target values – Top-level

Commercial software release target values are predictions of the current consumption for the first commercial-quality software release for an OS. These targets *will not be updated* after the commercial software has been released.

Commercial software release target values for the operational modes defined in [Table 3-1](#) are listed in [Table 4-1](#) for MSM8909 with PM8909 and [Table 4-2](#) for MSM8909 with PM8916-1 respectively. These values show optimized hardware and software configurations and are normalized to a 3.7 V supply voltage.

The power ranges listed in [Table 4-1](#) and [Table 4-2](#) are the projected power consumption for a typical device (~50th percentile) and a device at the 95th percentile of the device distribution. Devices that fall outside this range are to be expected.

NOTE: The 28 nm manufacturing process variation across parts and foundries lead to power distribution. The exact shape and median of this distribution is expected to vary over time with the maturing of the 28 nm process across foundries.

Table 4-1 Commercial software release top-level current consumption targets for MSM8909 with PM8909

Category	Test case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 1 x 512 MB LPDDR2 qHD Display WTR4905, PM8909 Estimate power range goal (mA)
Modem	Airplane	AIR1	1.5 to 1.9	1.8 to 2.2	1.25 to 1.65
	WCDMA standby 2.56 sec	WS1	1.9 to 2.4	2.2 to 2.7	1.65 to 2.15
	WCDMA talk + 0 dBm, IMT	WT1	124 to 132	124 to 132	124 to 132
	CDMA QPCH standby 5.12 sec	CS2	1.8 to 2.2	2.1 to 2.5	1.55 to 1.95
	EV-DO standby 5.12 sec	DS3	1.9 to 2.3	2.2 to 2.6	1.65 to 2.05

Category	Test case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 1 x 512 MB LPDDR2 qHD Display WTR4905, PM8909 Estimate power range goal (mA)
	CDMA Talk + 0 dBm, cell band	CT1	121 to 128	121 to 128	121 to 128
	GSM standby 1.18 sec	GS1	2.1 to 2.6	2.4 to 2.9	1.85 to 2.35
	GSM Talk + 5 dBm, no DTX, PGSM	GT1	87 to 93	87 to 93	87 to 93
	TD-SCDMA standby 1.28 sec	TCS1	2.15 to 2.65	2.45 to 2.95	1.9 to 2.4
	TD-SCDMA Talk + 0 dBm	TCT1	93 to 100	93 to 100	93 to 100
	HSDPA downlink 7.2 Mbps + 0 dBm, IMT (RxD)	HS22E	188 to 206	188 to 206	188 to 206
	DC HSDPA downlink 42 Mbps + 0 dBm, IMT (No RxD)	HS61E	203 to 221	203 to 221	203 to 221
	TD-SCDMA HSDPA 2.8 Mbps	TDHS1E	156 to 174	156 to 174	156 to 174
	LTE standby 2.56 sec	LS1	2.1 to 2.6	2.4 to 2.9	1.85 to 2.35
	LTE Cat 3 0 MHz (68/23 Mbps, 0 dBm, B13)	LTE1E	321 to 345	321 to 345	321 to 345
	LTE Cat 4 20 MHz (150/50 Mbps, 0 dBm, B7)	LTE7E	450 to 487	450 to 487	450 to 487
	LTE CA 10 MHz + 10 MHz	LTE8E	502 to 567	502 to 567	502 to 567
	DSDS LTE + GSM — 1.28 sec + 0.47 sec	LSGS1	4.7 to 5.8	5 to 6.1	4.45 to 5.55

Category	Test case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 1 x 512 MB LPDDR2 qHD Display WTR4905, PM8909 Estimate power range goal (mA)
	DSDS TD-SCDMA + GSM — 0.64 sec + 0.47 sec	TCSGS1	4.4 to 5.2	4.7 to 5.5	4.15 to 4.95
	DSDS GSM + GSM — 0.47 sec + 0.47 sec	GG2	4.4 to 5.3	4.7 to 5.6	4.15 to 5.05
	DSDS WCDMA + GSM — 0.64 sec + 0.47 sec	WGS3	4.95 to 5.85	5.25 to 6.15	4.7 to 5.6
GPS	GPS 1Hz Trk (Dynamic Power Optimization)	GPS2	12.75 to 14.15	13.05 to 14.45	12.5 to 13.9
	GNSS 1Hz Trk (Global Navigation Satellite System)	GNSS1	53 to 58	53 to 58	53 to 58
Multimedia	MP3 playback 128 Kbps Tunnel mode	AU4A	27 to 32	27 to 32	27 to 32
	Listen (SVA), 100% Silence	AU34A	19 to 24	19 to 24	19 to 24
	Listen (SVA), 100% Speech	AU35A	23 to 28	23 to 28	23 to 28
	HEVC 720p decode, 30 fps	QTC100A	122 to 142	122 to 142	112 to 132
	H.264 720p decode, 30 fps	QTC77A	118 to 138	118 to 138	108 to 128
	H.264 1080p decode, 30 fps	QTC88A	156 to 177	156 to 177	152 to 173
	H.264 720p encode, 30 fps	QMC15A	276 to 311	276 to 311	272 to 307
	3D UI 30fps (Graphic, power lift)	QGC23A	115 to 128	115 to 128	102 to 115
	3D Gfx Egypt 60 fps	QGC24A	315 to 364	315 to 364	287 to 336
	Static image	LCD04A	47 to 50	47 to 50	42 to 45

Category	Test case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8909 Estimate power range goal (mA)	MSM8909 1 x 512 MB LPDDR2 qHD Display WTR4905, PM8909 Estimate power range goal (mA)
Sensors	Accelerometer background processing @ 10 Hz	SNS5A	7.55 to 8.95	7.85 to 9.25	7.3 to 8.7
	Accelerometer active processing @ 15 Hz	SNS4A	52 to 60	52 to 60	52 to 60
Connectivity	Bluetooth SNIFF/Scan on WCDMA standby	BT2	3.05 to 3.55	3.35 to 3.85	2.8 to 3.3
	WLAN DTIM1 on WCDMA standby	WLS1	3.85 to 4.45	4.15 to 4.75	3.6 to 4.2
NetApps	Browser over Wi-Fi	WB1A	57 to 61	57 to 61	52 to 56
	Video streaming 720p over Wi-Fi	VS6A	165 to 184	165 to 184	160 to 179

NOTE: Memory configurations 2 x 512 MB LPDDR2 and 1 x 512 MB LPDDR2 will be used in internal platform for breakdown measurements.

NOTE: The above power dashboard numbers are estimate power range goal and do not include contribution from peripheral components like LCM, camera sensors etc.

Table 4-2 Commercial software release top-level current consumption targets for MSM8909 with PM8916-1

Category	Test Case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8916-1 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8916-1 Estimate power range goal (mA)	MSM8909 1 x 512MB LPDDR2 qHD Display WTR4905, PM8916-1 Estimate power range goal (mA)
Modem	Airplane	AIR1	1.4 to 1.8	1.7 to 2.1	1.2 to 1.6
	WCDMA standby 2.56 sec	WS1	1.75 to 2.25	2.05 to 2.55	1.55 to 2.05
	WCDMA talk + 0 dBm, IMT	WT1	107 to 115	107 to 115	107 to 115
	CDMA QPCH standby 5.12 sec	CS2	1.65 to 2.05	1.95 to 2.35	1.45 to 1.85
	EVDO standby 5.12sec	DS3	1.75 to 2.25	2.05 to 2.55	1.55 to 2.05
	CDMA Talk + 0 dBm, cell band	CT1	105 to 112	105 to 112	105 to 112
	GSM standby 1.18sec	GS1	1.95 to 2.35	2.25 to 2.65	1.75 to 2.15
	GSM Talk + 5 dBm, no DTX, PGSM	GT1	80 to 86	80 to 86	80 to 86
	TD-SCDMA standby 1.28 sec	TCS1	2.0 to 2.5	2.3 to 2.8	1.8 to 2.3
	TD-SCDMA Talk + 0 dBm	TCT1	90 to 97	90 to 97	90 to 97
	HSDPA DL 7.2Mbps + 0 dBm, IMT (RxD)	HS22E	152 to 166	152 to 166	152 to 166
	DC HSDPA DL 42Mbps + 0 dBm, IMT (No RxD)	HS61E	167 to 181	167 to 181	167 to 181
	TD-SCDMA HSDPA 2.8 Mbps	TDHS1E	125 to 139	125 to 139	125 to 139
	LTE Standby 2.56 sec	LS1	2.0 to 2.4	2.3 to 2.7	1.8 to 2.2
	LTE CAT 3 10MHz (68/23 Mbps, 0 dBm, B13)	LTE1E	275 to 299	275 to 299	275 to 299
	LTE CAT 4 20MHz (150/50 Mbps, 0 dBm, B7)	LTE7E	382 to 419	382 to 419	382 to 419
	LTE CA 10 MHz + 10 MHz	LTE8E	450 to 503	450 to 503	450 to 503
	DSDS LTE + GSM : 1.28 sec + 0.47 sec	LSGS1	4.3 to 5.4	4.7 to 5.8	4.1 to 5.2

Category	Test Case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8916-1 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8916-1 Estimate power range goal (mA)	MSM8909 1 x 512MB LPDDR2 qHD Display WTR4905, PM8916-1 Estimate power range goal (mA)
	DSDS TD-SCDMA + GSM : 0.64 sec + 0.47 sec	TCSGS1	4.1 to 4.9	4.4 to 5.2	3.9 to 4.7
	DSDS GSM + GSM : 0.47ssec + 0.47sec	GGs2	4.1 to 4.9	4.4 to 5.2	3.9 to 4.7
	DSDS WCDMA + GSM : 0.64 sec + 0.47 sec	WGS3	4.45 to 5.35	4.75 to 5.65	4.25 to 5.15
GPS	GPS 1HZ Trk (Dynamic Power Optimization)	GPS2	11.0 to 12.4	11.3 to 12.7	10.8 to 12.2
	GNSS 1Hz Trk (Global Navigation Satellite System)	GNSS1	48 to 53	48 to 53	48 to 53
Multimedia	MP3 playback 128kbps Tunnel Mode	AU4A	24 to 29	24 to 29	24 to 29
	Listen(SVA), 100% Silence	AU34A	15 to 20	15 to 20	15 to 20
	Listen (SVA), 100% Speech	AU35A	20 to 25	20 to 25	20 to 25
	HEVC 720p decode, 30fps	QTC100A	108 to 127	108 to 127	91 to 110
	H.264 720p decode, 30fps	QTC77A	104 to 123	104 to 123	86 to 105
	H.264 1080p decode, 30fps	QTC88A	130 to 150	130 to 150	123 to 143
	H.264 720p encode, 30fps	QMC15A	250 to 285	250 to 285	235 to 270
	3D UI 30fps (Graphic, power lift)	QGC23A	105 to 117	105 to 117	90 to 102
	3D Gfx Egypt 60fps	QGC24A	274 to 319	274 to 319	254 to 299
	Static Image	LCD04A	38 to 41	38 to 41	33 to 36
Sensors	Accelerometer background processing @ 10Hz	SNS5A	6.4 to 7.8	6.7 to 8.1	6.2 to 7.6
	Accelerometer active processing @ 15Hz	SNS4A	50 to 58	50 to 58	50 to 58
Connectivity	BT SNIFF/Scan on W standby	BT2	3.0 to 3.5	3.3 to 3.8	2.8 to 3.3

Category	Test Case	Code	MSM8909 1 x 1 GB LPDDR2 720p Display WTR4905, PM8916-1 Estimate power range goal (mA)	MSM8909 2 x 512 MB LPDDR2 720p Display WTR4905, PM8916-1 Estimate power range goal (mA)	MSM8909 1 x 512MB LPDDR2 qHD Display WTR4905, PM8916-1 Estimate power range goal (mA)
	WLAN DTIM1 on W standby	WLS1	3.55 to 4.15	3.85 to 4.45	3.35 to 3.95
NetApps	Browser over WiFi	WB1A	52 to 56	52 to 56	47 to 51
	Video Streaming 720P over WiFi	VS6A	144 to 162	144 to 162	132 to 150

NOTE: Memory configurations 2 x 512 MB LPDDR2 and 1 x 512 MB LPDDR2 will be used in internal platform for breakdown measurements.

NOTE: The above power dashboard numbers are estimate power range goal and do not include contribution from peripheral components like LCM, camera sensors etc.

Selecting battery size for MSM8909 based designs

The MSM platform current consumption estimates and OEM product specific requirements or carrier requirements (for example, Days of Use (DOU)) play a crucial role in determining the appropriate battery size for the product.

The power data comparison provide the estimated current consumption for MSM8909 platform, based on the projected power distribution across 50 to 95% of the device population.

NOTE: OEMs are expected to select an appropriate battery size to meet their product requirements and specifications.

4.2 Measured values – Top-level

- The battery-level measured values are published in the MSM8909 release notes.
 - For more details, see *Release Notes: 80-NT958-x* (Where *x* represents Release notes revision number)

4.3 Breakdown measurements (per regulator values)

NOTE: Numerous changes were made in this section.

4.3.1 KitKat APPS CS Build PM8909

This section lists breakdown data for the modem and Multimedia use cases based on the release MSM8909.LA.1.0.c3-01030-STD.PROD-1 (512 MB, KitKat APPS and PM8909)

Table 4-3 Rock bottom sleep

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51	0.68
8	APC[SMPS,S1]	0.51	0.00
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95	0.00
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95	0.00
150	VREG_S2_WCD_1P95 [SMPS,S2]		
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00	0.01
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00	0.00
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00	0.00
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00	0.00
136	VDDPX_6[LDO,L15]	0.00	0.00
138	RF Switches VDD_2P7 [LDO,L18]	0.08	0.00
141	RF360_VDD_2P7 [LDO,L18]	0.08	0.00
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.00	0.00
58	VDDPX_2 [LDO,L12]	0.00	0.00
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00	0.00
135	VDDPX_5 [LDO,L14]	0.00	0.00
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00	0.00
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00	0.00
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00	0.00
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00	0.00
148	Sensors [LDO,L17]	0.00	0.00
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00	0.00
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00	0.00
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00	0.00
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.64	0.31
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	0.64	0.00
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.64	0.02
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00	0.00
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20	0.00

RCM channel	Regulator	Voltage (V)	I (mA)
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20	0.47
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20	0.02
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79	15.36
35	Ext_BackLight_Driver_VPH	3.71	0.00
36	VPH_PWR_HRLED	3.71	0.00
38	VPH_PWR_Flash_LED_Driver	3.71	0.00
39	VPH_PWR_MISC	3.71	0.00
61	GSM PA_1_VPH	3.71	13.05
62	GSM PA_2_VPH	3.71	0.07
74	CDC_VBAT	3.70	1.07
125	VIB MOTOR_VPH	3.71	0.00
146	VPH_PWR_WLAN_QCA	3.71	0.09
19	EXT_BOOST	3.71	0.00
	Battery (measured)	3.70	1.5

RCM channel	Regulator	WCDMA sleep		WCDMA awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51 V	0.55 mA	0.93 V	49.20 mA
8	APC[SMPS,S1]	0.51 V	0.00 mA	0.93 V	0.35 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.08 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.08 V	0.00 mA	2.03 V	0.71 mA
141	RF360_VDD_2P7 [LDO,L18]	0.08 V	0.00 mA	2.03 V	1.55 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.18 V	0.01 mA	0.14 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA	2.92 V	0.00 mA

RCM channel	Regulator	WCDMA sleep		WCDMA awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
135	VDDPX_5 [LDO,L14]	2.92 V	0.06 mA	2.92 V	0.06 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA	0.70 V	4.82 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.64 V	0.30 mA	1.07 V	7.31 mA
21	VREG_L3_SR_PLL_1P15,MX_TX DAC [LDO,L3,SUB SMPS,S2]	0.64 V	0.00 mA	1.07 V	0.04 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.64 V	0.02 mA	1.07 V	0.69 mA
20	VREG_L10_MSM_BBRXGPS_1P3 [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA	0.92 V	0.84 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA	1.20 V	10.02 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	0.46 mA	1.20 V	11.82 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.02 mA	1.20 V	0.06 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.44 V	0.01 mA	1.73 V	2.05 mA
35	Ext_BackLight_Driver_VPH	3.70 V	0.02 mA	3.70 V	0.00 mA
36	VPH_PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.00 mA	3.70 V	0.00 mA
39	VPH_PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	GSM PA_1_VPH	3.70 V	0.20 mA	3.70 V	0.32 mA
62	GSM PA_2_VPH	3.70 V	0.06 mA	3.70 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.70 V	0.01 mA	3.70 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.70 V	0.11 mA	3.70 V	0.15 mA
19	EXT_BOOST	3.70 V	0.00 mA	3.70 V	0.00 mA
	Battery (measured)	3.70 V	1.5 mA	3.70 V	45.2 mA

Table 4-4 WCDMA talk + 0 dBm, IMT

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.91 V	94.92 mA
8	APC[SMPS,S1]	0.91 V	0.65 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.01 V	0.02 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.91 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.44 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.06 V	0.02 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.07 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	62.83 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	7.45 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	3.22 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.59 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	1.98mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	9.53 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	7.48 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	13.54 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.00 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.00 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	10.12 mA
62	GSM PA_2_VPH	3.71 V	0.05 mA
74	CDC_VBAT	3.70 V	1.07 mA

RCM channel	Regulator	Voltage (V)	I (mA)
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.09 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	117.5 mA

Table 4-5 GSM standby 1.18 sec

RCM channel	Regulator	GSM sleep		GSM awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51 V	0.63 mA	0.93 V	45.06 mA
8	APC[SMPS,S1]	0.51 V	0.07 mA	0.93 V	0.45 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.02 mA	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.02 mA	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.08 V	0.00 mA	2.11 V	0.94 mA
141	RF360_VDD_2P7 [LDO,L18]	0.08 V	0.00 mA	2.11 V	0.89 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.18 V	0.01 mA	0.01 V	0.09 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA	2.92 V	0.01 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.06 mA	2.92 V	0.08 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA	0.74 V	1.88 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.64 V	0.34 mA	1.07 V	6.41 mA
21	VREG_L3_SR_PLL_1P15,MX_TXD AC [LDO,L3,SUB SMPS,S2]	0.64 V	0.00 mA	1.07 V	0.06 mA

RCM channel	Regulator	GSM sleep		GSM awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.64 V	0.02 mA	1.07 V	0.66 mA
20	VREG_L10_MSM_BBRXGPS_1P3 [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA	0.98 V	0.10 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.02 mA	1.20 V	8.21 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	0.49 mA	1.20 V	10.33 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.02 mA	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.51 V	0.00 mA	1.74 V	2.15 mA
35	Ext_BackLight_Driver_VPH	3.70 V	0.02 mA	3.70 V	0.00 mA
36	VPH_PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.04 mA	3.70 V	0.00 mA
39	VPH_PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	GSM PA_1_VPH	3.70 V	0.05 mA	3.70 V	0.00 mA
62	GSM PA_2_VPH	3.70 V	0.00 mA	3.70 V	0.57 mA
74	CDC_VBAT	3.70 V	0.00 mA	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.70 V	0.00 mA	3.70 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.70 V	0.07 mA	3.70 V	0.15 mA
19	EXT_BOOST	3.70 V	0.02 mA	3.70 V	0.00 mA
	Battery (measured)	3.70 V	1.4 mA	3.70 V	35.2 mA

Table 4-6 GSM talk + 5 dBm, no DTx, PGSM

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.91 V	67.12 mA
8	APC[SMPS,S1]	0.91 V	0.08 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.01 V	0.02 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.92 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	2.77 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	3.09 V	0.06 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.08 mA

RCM channel	Regulator	Voltage (V)	I (mA)
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	1.00 V	9.11 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	6.84 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	1.37 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.62 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	0.47mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	10.95 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	11.88 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	12.75 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.00 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.00 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	13.05 mA
62	GSM PA_2_VPH	3.71 V	0.07 mA
74	CDC_VBAT	3.70 V	1.07 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.09 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	82.1 mA

Table 4-7 CDMA talk + 0 dBm

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.91 V	85.18 mA
8	APC[SMPS,S1]	0.91 V	0.14 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.01 V	0.02 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA

RCM channel	Regulator	Voltage (V)	I (mA)
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.91 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.62 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.41 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.08 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	-0.01 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	62.01 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	6.73 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.04 V	3.11 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.52 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	3.84mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	8.28 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	3.77 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	15.36 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.01 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.02 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	6.26 mA
62	GSM PA_2_VPH	3.71 V	0.04 mA
74	CDC_VBAT	3.70 V	1.07 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.05 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	109.1 mA

Table 4-8 TD-SCDMA standby 1.28 sec

RCM channel	Regulator	TD-SCDMA sleep		TD-SCDMA awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51 V	0.77 mA	0.93 V	53.16 mA
8	APC[SMPS,S1]	0.51 V	0.01 mA	0.93 V	0.05 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.03 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.02 mA	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.09 V	0.00 mA	2.08 V	0.80 mA
141	RF360_VDD_2P7 [LDO,L18]	0.09 V	0.00 mA	2.08 V	0.28 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.03 V	0.02 mA	0.01 V	0.09 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA	2.92 V	0.01 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.07 mA	2.92 V	0.08 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA	0.71 V	3.14 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.64 V	0.31 mA	1.07 V	6.91 mA
21	VREG_L3_SR_PLL_1P15,MX_TXD AC [LDO,L3,SUB SMPS,S2]	0.64 V	0.00 mA	1.07 V	0.22 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.64 V	0.03 mA	1.07 V	0.71 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA	0.94 V	0.59 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.02 mA	1.20 V	8.58 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	0.49 mA	1.20 V	9.17 mA

RCM channel	Regulator	TD-SCDMA sleep		TD-SCDMA awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.02 mA	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.51 V	0.02 mA	1.73 V	2.33 mA
35	Ext_BackLight_Driver_VPH	3.70 V	0.00 mA	3.70 V	0.00 mA
36	VPH_PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.04 mA	3.70 V	0.00 mA
39	VPH_PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	GSM PA_1_VPH	3.70 V	0.27 mA	3.70 V	0.46 mA
62	GSM PA_2_VPH	3.70 V	0.13 mA	3.70 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.70 V	0.00 mA	3.70 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.70 V	0.11 mA	3.70 V	0.15 mA
19	EXT_BOOST	3.70 V	0.00 mA	3.70 V	0.00 mA
	Battery (measured)	3.70 V	1.5 mA	3.70 V	41.2 mA

Table 4-9 TD-SCDMA talk 1.28 sec

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.91 V	58.78 mA
8	APC[SMPS,S1]	0.91 V	0.23 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.01 V	0.02 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.95 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.53 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	3.08 V	0.06 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.08 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA

RCM channel	Regulator	Voltage (V)	I (mA)
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	1.00 V	17.72 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	6.31 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	1.02 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.58 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	3.81mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	9.08 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	6.04 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	7.05 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.01 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.05 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	3.15 mA
62	GSM PA_2_VPH	3.71 V	0.10 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.08 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	63.54 mA

Table 4-10 HSDPA downlink 7.2 Mbps + 0 dBm, IMT (RxD)

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.05 V	165.86 mA
8	APC[SMPS,S1]	1.06 V	33.90 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.89 V	0.14 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.89 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.92 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.45 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.46 V	0.02 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA

RCM channel	Regulator	Voltage (V)	I (mA)
135	VDDPX_5 [LDO,L14]	2.92 V	0.09 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	79.18 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.17 V	14.87 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.17 V	2.78 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.17 V	1.35 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	9.02mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	10.21 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	9.21 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	29.51 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.00 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.01 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	10.24 mA
62	GSM PA_2_VPH	3.71 V	0.06 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.07 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	180.00 mA

Table 4-11 DC HSDPA downlink 42 Mbps + 0 dBm, IMT (No RxD)

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.05 V	168.14 mA
8	APC[SMPS,S1]	1.06 V	71.28 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.02 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.07 V	0.08 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.07 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA

RCM channel	Regulator	Voltage (V)	I (mA)
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.92 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	0.51 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.25 V	0.01 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.09 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	59.29 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.17 V	19.72 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.17 V	2.76 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.17 V	1.81 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	6.95mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	11.86 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	13.03 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	18.83 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.02 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.10 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	9.17 mA
62	GSM PA_2_VPH	3.71 V	0.04 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.05 mA
19	EXT_BOOST	3.71 V	0.03 mA
	Battery (measured)	3.70 V	178.1 mA

Table 4-12 FDD LTE standby 2.56 sec

RCM channel	Regulator	FDD LTE sleep		FDD LTE awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51 V	0.65 mA	0.92 V	64.73 mA
8	APC[SMPS,S1]	0.51 V	0.05 mA	0.92 V	0.00 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.08 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA	1.95 V	0.04 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.02 mA	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.09 V	0.00 mA	2.21 V	0.77 mA
141	RF360_VDD_2P7 [LDO,L18]	0.09 V	0.00 mA	2.21 V	1.14 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.03 V	0.02 mA	0.01 V	0.09 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA	2.92 V	0.01 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.07 mA	2.92 V	0.08 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA	0.78 V	8.26 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.64 V	0.32 mA	1.06 V	7.28 mA
21	VREG_L3_SR_PLL_1P15,MX_TXD AC [LDO,L3,SUB SMPS,S2]	0.64 V	0.00 mA	1.06 V	0.05 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.64 V	0.02 mA	1.07 V	0.72 mA
20	VREG_L10_MSM_BBRXGPS_1P3 [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA	1.02 V	1.70 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA	1.20 V	9.01 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	0.46 mA	1.20 V	8.98 mA

RCM channel	Regulator	FDD LTE sleep		FDD LTE awake	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.02 mA	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.51 V	0.02 mA	1.74 V	5.27 mA
35	Ext_BackLight_Driver_VPH	0.01 mA	0.01 mA	3.70 V	0.00 mA
36	VPH_PWR_HRLED	0.00 mA	0.00 mA	3.70 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	0.04 mA	0.04 mA	3.70 V	0.00 mA
39	VPH_PWR_MISC	0.00 mA	0.00 mA	3.70 V	0.00 mA
61	GSM PA_1_VPH	0.07 mA	0.07 mA	3.70 V	0.86 mA
62	GSM PA_2_VPH	0.00 mA	0.00 mA	3.70 V	0.00 mA
74	CDC_VBAT	0.00 mA	0.00 mA	3.70 V	0.00 mA
125	VIB MOTOR_VPH	0.00 mA	0.00 mA	3.70 V	0.00 mA
146	VPH_PWR_WLAN_QCA	0.06 mA	0.06 mA	3.70 V	0.09 mA
19	EXT_BOOST	0.00 mA	0.00 mA	3.70 V	0.00 mA
	Battery (measured)	3.70 V	1.6 mA	3.70 V	52.0 mA

Table 4-13 LTE FDD Cat 3 (10MHz (68/23 Mbps, 0 dBm, B13))

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.07 V	294.44 mA
8	APC[SMPS,S1]	1.07 V	167.73 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.02 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.89 V	0.11 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.89 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.31 V	35.15 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.44 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.56 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.09 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA

RCM channel	Regulator	Voltage (V)	I (mA)
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.97 V	98.26 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.18 V	34.81 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.17 V	2.81 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.18 V	3.39 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.29V	13.81mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	19.12 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	37.29 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	29.26 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.01 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.00 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	7.22 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.06 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	316.5 mA

Table 4-14 LTE FDD Cat 4 (20 MHz (150/50 Mbps, 0 dBm, B7))

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.08 V	455.99 mA
8	APC[SMPS,S1]	1.09 V	224.93 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.02 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.06 V	0.15 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.06 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	0.92 mA
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.45 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.80 V	0.02 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	2.92 V	0.00 mA
135	VDDPX_5 [LDO,L14]	2.92 V	0.08 mA

RCM channel	Regulator	Voltage (V)	I (mA)
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.97 V	98.47 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.18 V	54.31 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.18 V	2.92 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.18 V	5.15 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	1.27V	27.9mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	29.37 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	42.25 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	32.81 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.02 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.02 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	7.23 mA
62	GSM PA_2_VPH	3.71 V	0.05 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.08 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	435.0 mA

Table 4-15 MP3 playback 128 kbps (Tunnel mode – DSP audio codec)

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.93 V	27.13 mA
8	APC[SMPS,S1]	0.93 V	4.73 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.38 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.65 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA

RCM channel	Regulator	Voltage (V)	I (mA)
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.30 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 mA
148	Sensors [LDO,L17]	0.00 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.06 V	3.57 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.06 V	0.82 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.06 V	0.31 mA
20	VREG_L10_MSM_BBXXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.34 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	1.94 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	0.01 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.11 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.16 mA
62	GSM PA_2_VPH	3.71 V	0.06 mA
74	CDC_VBAT	3.70 V	0.33 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.03 mA
19	EXT_BOOST	3.71 V	0.03 mA
	Battery (measured)	3.70 V	23.48 mA

Table 4-16 H.264 720p decode, 30 fps

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.07 V	83.73 mA
8	APC[SMPS,S1]	1.07 V	73.18 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.56 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.83 mA

RCM channel	Regulator	Voltage (V)	I (mA)
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.33 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.00 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.11 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.20 V	18.10 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.20 V	0.85 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.20 V	1.80 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	22.56 mA
20	VREG_L10_MSM_BBXXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	20.52 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	36.49 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.90 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.09 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.08 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.08 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.33 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.04 mA
19	EXT_BOOST	3.71 V	0.00 mA
	Battery (measured)	3.70 V	296.3 mA

Table 4-17 H.264 1080p decode, 30 fps

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.07 V	109.23 mA
8	APC[SMPS,S1]	1.07 V	69.53 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.57 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.78 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.62 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.00 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.07 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.20 V	24.30 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.20 V	0.85 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.20 V	2.41 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	22.75 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	33.17 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	54.40 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.90 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.10 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.10 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.06 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.33 mA

RCM channel	Regulator	Voltage (V)	I (mA)
125	VIB MOTOR_VPH	3.71 V	0.01 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.03 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	325.5 mA

Table 4-18 H.264 720p encode, 30 fps

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.12 V	180.01 mA
8	APC[SMPS,S1]	1.12 V	143.34 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.01 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.89 V	0.87 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.89 V	25.29 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.01 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.61 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.83 V	21.53 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.24 V	39.60 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.24 V	0.88 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.24 V	3.86 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	24.44 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	36.00 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	58.41 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.84 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.19 V	47.48 mA

RCM channel	Regulator	Voltage (V)	I (mA)
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	131.98 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.22 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.07 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.07 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	469.6 mA

Table 4-19 Graphics (3D UI full-screen resolution 30 fps [PowerLift]) – Comp. bypass

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.07 V	97.00 mA
8	APC[SMPS,S1]	1.07 V	70.77 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.00 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	34.64 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.20 V	24.31 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.20 V	0.02 mA

RCM channel	Regulator	Voltage (V)	I (mA)
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.20 V	2.36 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	21.36 mA
20	VREG_L10_MSM_BBXXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	22.34 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	42.04 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.91 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.09 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.22 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.07 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.07 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	304.5 mA

Table 4-20 3D Gfx Egypt 60 fps

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.21 V	245.79 mA
8	APC[SMPS,S1]	1.21 V	213.75 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.00 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA

RCM channel	Regulator	Voltage (V)	I (mA)
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.89 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.33 V	66.97 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.33 V	0.89 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.33 V	6.41 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	21.44 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	39.86 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	95.51 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	15.85 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.03 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.22 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.07 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.07 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	486.9 mA

Table 4-21 Static image display

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.93 V	29.74 mA
8	APC[SMPS,S1]	0.93 V	1.84 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.00 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.00 V	0.00 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	30.28 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	4.98 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	0.01 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.49 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	21.17 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	2.57 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	12.36 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.54 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.03 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.22 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.07 mA

RCM channel	Regulator	Voltage (V)	I (mA)
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.07 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	213.3 mA

Table 4-22 Browser over Wi-Fi

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.97 V	37.83 mA
8	APC[SMPS,S1]	0.97 V	24.81 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.73 V	0.07 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.73 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.15 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.15 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.59 V	0.16 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	32.53 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.09 V	7.51 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.09 V	0.03 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.09 V	0.75 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	20.49 mA
20	VREG_L10_MSM_BBRXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	4.27 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	15.50 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	15.72 mA

RCM channel	Regulator	Voltage (V)	I (mA)
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.30 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.22 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.07 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.00 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.07 mA
19	EXT_BOOST	3.71 V	0.01 mA
	Battery (measured)	3.70 V	234.8 mA

Table 4-23 Video streaming over Wi-Fi

RCM channel	Regulator	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.08 V	84.47 mA
8	APC[SMPS,S1]	1.08 V	84.78 mA
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.54 mA
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.82 mA
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.81 V	0.02 mA
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.81 V	0.00 mA
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 mA
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 mA
136	VDDPX_6[LDO,L15]	0.00 V	0.00 mA
138	RF Switches VDD_2P7 [LDO,L18]	0.15 V	0.00 mA
141	RF360_VDD_2P7 [LDO,L18]	0.15 V	0.00 mA
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.75 V	0.33 mA
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 mA
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 mA
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 mA
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	30.89 mA
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 mA
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 mA
148	Sensors [LDO,L17]	2.84 V	0.00 mA
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 mA
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 mA

RCM channel	Regulator	Voltage (V)	I (mA)
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.20 V	19.29 mA
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.20 V	0.85 mA
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.20 V	1.91 mA
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	22.27 mA
20	VREG_L10_MSM_BBXXGPS_1P3[LDO,L10,SUB SMPS,S2]	0.00 V	0.00 mA
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	18.93 mA
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	37.52 mA
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.87 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 mA
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.32 V	0.00 mA
35	Ext_BackLight_Driver_VPH	3.71 V	132.13 mA
36	VPH_PWR_HRLED	3.71 V	0.00 mA
38	VPH_PWR_Flash_LED_Driver	3.71 V	0.07 mA
39	VPH_PWR_MISC	3.71 V	0.00 mA
61	GSM PA_1_VPH	3.71 V	0.04 mA
62	GSM PA_2_VPH	3.71 V	0.00 mA
74	CDC_VBAT	3.70 V	0.33 mA
125	VIB MOTOR_VPH	3.71 V	0.00 mA
146	VPH_PWR_WLAN_QCA	3.71 V	0.05 mA
19	EXT_BOOST	3.71 V	0.02 mA
	Battery (measured)	3.70 V	307.8 mA

4.3.2 Lollipop APPS CS build PM8916-1

This section lists breakdown data for the Modem and Multimedia use cases based on the release MSM8909.LA.1.1-01130-STD.PROD-1 (2*512 MB, Lollipop APPS and PM8916-1)

Table 4-24 Use Case: MP3 playback 128 kbps (Tunnel mode – DSP audio codec)

RCM channel	Regulator	AU4AI1	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.96 V	23.15 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.02 V	2.37 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.25 V	7.35 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	12.67 mA
55	Rhea_PA_2P85 [LDO,L9]	0.72 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.01 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.01 mA
35	PWR_WLED	3.70 V	0.01 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.07 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.08 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA

RCM channel	Regulator	AU4AI1	
		Voltage (V)	I (mA)
146	PWR_WLAN	3.70 V	0.08 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.05 V	0.24 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.05 V	0.79 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.05 V	3.88 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	2.10 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.01 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.98 mA
11	CDC_PA [SMPS, S4]	2.05 V	1.15 mA
12	CDC_CP [SMPS, S4]	2.05 V	1.42 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.37 V	0.00 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.37 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.37 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.07 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.80 V	2.86 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.80 V	0.59 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.05 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA

RCM channel	Regulator	AU4AI1	
		Voltage (V)	I (mA)
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
130	HV_BBXX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.03 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	21.64 mA

Table 4-25 Use Case: H.264 720p decode, 30 fps

RCM channel	Regulator	QTC77A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.98 V	80.33 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.64 V	62.55 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2,L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.25 V	100.08 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	44.53 mA
55	Rhea_PA_2P85 [LDO,L9]	2.89 V	0.03 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.85 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.84 V	31.32 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.85 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.85 V	0.00 mA
138	RF_SW [LDO,L17]	0.16 V	0.00 mA
141	RF360 [LDO,L18]	0.16 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.90 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.90 V	0.31 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.01 mA
35	PWR_WLED	3.68 V	116.78 mA

RCM channel	Regulator	QTC77A	
		Voltage (V)	I (mA)
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.03 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.07 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.09 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.16 V	1.19 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.16 V	0.81 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.16 V	18.09 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	41.57 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.19 V	16.77 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.01 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.98 mA
11	CDC_PA [SMPS, S4]	2.05 V	1.18 mA
12	CDC_CP [SMPS, S4]	2.05 V	1.46 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBXXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.02 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.29 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.29 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.29 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.80 V	2.87 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	2.66 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.77 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.04 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA

RCM channel	Regulator	QTC77A	
		Voltage (V)	I (mA)
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.02 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.31 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	25.73 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.04 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	264.89 mA

Table 4-26 Use Case: H.264 1080p decode, 30 fps

RCM channel	Regulator	QTC88A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.06 V	114.05 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.66 V	62.46 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.25 V	140.11 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	46.41 mA
55	Rhea_PA_2P85 [LDO,L9]	2.81 V	0.01 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.85 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.84 V	31.29 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.85 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.85 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.90 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.90 V	0.60 mA

RCM channel	Regulator	QTC88A	
		Voltage (V)	I (mA)
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.01 mA
35	PWR_WLED	3.68 V	116.63 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.04 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.12 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.07 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.17 V	1.65 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.17 V	0.82 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.17 V	25.14 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	61.32 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.18 V	16.74 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.98 mA
11	CDC_PA [SMPS, S4]	2.05 V	1.17 mA
12	CDC_CP [SMPS, S4]	2.05 V	1.45 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.01 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.36 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.36 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.36 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA

RCM channel	Regulator	QTC88A	
		Voltage (V)	I (mA)
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.07 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	2.87 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	3.63 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	1.51 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.08 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.02 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.33 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	25.86 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBXX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.03 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	294.23 mA

Table 4-27 Use Case: Static Display

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.95 V	32.05 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.01 V	0.96 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.25 V	37.36 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	34.36 mA
55	Rhea_PA_2P85 [LDO,L9]	0.49 V	0.01 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.08 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.84 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.83 V	30.91 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.61 mA

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
66	MIPI-8MP_2P85 [LDO,L17]	2.84 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.84 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.01 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA
35	PWR_WLED	3.67 V	122.66 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.09 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.09 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.11 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.05 V	0.61 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.05 V	0.01 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.05 V	5.41 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	12.87 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.19 V	15.89 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	0.97 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.34 V	0.03 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.28 V	0.01 mA

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.28 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.28 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.80 V	0.45 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.80 V	1.05 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.03 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.30 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.69 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	24.36 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBXX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.03 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.06 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	202.81 mA

Table 4-28 Use Case: Camera Preview

RCM channel	Regulator	QMC38A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.06 V	140.63 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.78 V	101.69 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.27 V	241.03 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	45.60 mA
55	Rhea_PA_2P85 [LDO,L9]	0.97 V	0.01 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA

RCM channel	Regulator	QMC38A	
		Voltage (V)	I (mA)
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.84 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.84 V	31.54 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.83 V	21.89 mA
67	VGA_CAM_2P85 [LDO,L18]	2.85 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.60 V	0.07 mA
54	eMMC_2P9 [LDO,L8]	0.60 V	0.02 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.00 mA
35	PWR_WLED	3.68 V	116.63 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.07 mA
62	PA1	3.70 V	0.01 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.11 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.19 V	2.60 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.19 V	0.02 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.19 V	40.63 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	64.69 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.18 V	16.53 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	3.96 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.18 V	67.65 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.99 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA

RCM channel	Regulator	QMC38A	
		Voltage (V)	I (mA)
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.02 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.29 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.29 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.29 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	4.34 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	4.04 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.05 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.32 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	3.14 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	25.50 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.10 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	377.24 mA

Table 4-29 Use Case: H.264 720p encode, 30 fps

RCM channel	Regulator	QMC15A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.07 V	174.83 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.98 V	161.61 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.29 V	229.89 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	51.08 mA
55	Rhea_PA_2P85 [LDO,L9]	2.89 V	0.01 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.01 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.84 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.84 V	31.55 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.83 V	22.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.85 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.89 V	0.36 mA
54	eMMC_2P9 [LDO,L8]	2.89 V	0.80 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.00 mA
35	PWR_WLED	3.68 V	116.78 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.05 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.09 mA
62	PA1	3.70 V	0.01 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.06 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.21 V	2.78 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.21 V	0.83 mA

RCM channel	Regulator	QMC15A	
		Voltage (V)	I (mA)
5	MX [LDO,L3,SUB SMPS,S3]	1.21 V	43.13 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	75.43 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.18 V	16.70 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	2.64 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	46.07 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.99 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.01 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.36 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.36 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.36 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.58 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	6.13 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	4.00 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.59 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.17 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.32 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	3.16 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	26.97 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.28 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA

RCM channel	Regulator	QMC15A	
		Voltage (V)	I (mA)
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	413.06 mA

Table 4-30 Use Case: 3D UI 30 fps (graphic, PowerLift)

RCM channel	Regulator	QGC23A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.00 V	92.66 mA
8	S2_OUTPUT [APC,SMPS,S2]	1.07 V	71.33 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.25 V	116.37 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	36.26 mA
55	Rhea_PA_2P85 [LDO,L9]	2.03 V	0.01 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.85 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.84 V	35.03 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.85 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.85 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.16 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.02 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.02 V	0.05 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.00 mA
35	PWR_WLED	3.68 V	116.68 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.04 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.07 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA

RCM channel	Regulator	QGC23A	
		Voltage (V)	I (mA)
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.10 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.17 V	1.61 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.17 V	0.02 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.17 V	25.09 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	47.96 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.19 V	16.77 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.98 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.02 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.29 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.29 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.29 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.80 V	0.44 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	2.71 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.07 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.31 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA

RCM channel	Regulator	QGC23A	
		Voltage (V)	I (mA)
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	24.57 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.03 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	276.62 mA

Table 4-31 Use Case: 3D Game 60fps (Egypt)

RCM channel	Regulator	QGC24A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.20 V	247.31 mA
8	S2_OUTPUT [APC,SMPS,S2]	1.16 V	203.16 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.38 V	237.78 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	39.50 mA
55	Rhea_PA_2P85 [LDO,L9]	1.10 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.85 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.84 V	32.20 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.85 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.85 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.76 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.76 V	0.02 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.00 mA

RCM channel	Regulator	QGC24A	
		Voltage (V)	I (mA)
35	PWR_WLED	3.68 V	116.71 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.11 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.11 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.31 V	4.39 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.31 V	0.85 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.31 V	68.89 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	105.37 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.18 V	15.75 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.05 V	0.99 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBXXGPS_1P3	1.35 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.01 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.31 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.31 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.31 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.80 V	0.46 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	4.95 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA

RCM channel	Regulator	QGC24A	
		Voltage (V)	I (mA)
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.32 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	24.71 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.91 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	442.26 mA

Table 4-32 Use Case: Browser over Wi-Fi

RCM channel	Regulator	WB1A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.97 V	38.56 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.13 V	17.33 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.26 V	42.88 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.04 V	39.07 mA
55	Rhea_PA_2P85 [LDO,L9]	3.29 V	0.51 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.08 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.84 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	2.83 V	33.63 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.60 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.84 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.84 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.81 V	0.00 mA

RCM channel	Regulator	WB1A	
		Voltage (V)	I (mA)
54	eMMC_2P9 [LDO,L8]	2.81 V	0.06 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA
35	PWR_WLED	3.67 V	122.39 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.04 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.13 mA
62	PA1	3.70 V	0.08 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.05 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.08 V	0.79 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.08 V	0.03 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.08 V	7.52 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	15.77 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.19 V	14.76 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	1.39 mA
11	CDC_PA [SMPS, S4]	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.04 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.34 V	4.42 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.34 V	0.22 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.11 V	0.00 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.11 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.11 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA

RCM channel	Regulator	WB1A	
		Voltage (V)	I (mA)
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.80 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.80 V	0.45 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.80 V	1.23 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.09 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.32 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	23.73 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.16 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	219.72 mA

Table 4-33 Use Case: Video streaming 720p over Wi-Fi

RCM channel	Regulator	VS6A	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.98 V	79.53 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.91 V	102.19 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.26 V	105.71 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.04 V	53.97 mA
55	Rhea_PA_2P85 [LDO,L9]	3.28 V	1.20 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.08 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	2.84 V	0.00 mA

RCM channel	Regulator	VS6A	
		Voltage (V)	I (mA)
59	LCD1_MIPI [LDO,L17]	2.83 V	31.54 mA
60	Cap TS_2P85 [LDO,L17]	2.84 V	0.61 mA
66	MIPI-8MP_2P85 [LDO,L17]	2.84 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	2.84 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.86 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.86 V	0.04 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.01 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA
35	PWR_WLED	3.67 V	122.49 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.05 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.16 mA
62	PA1	3.70 V	0.08 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.07 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.01 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.18 V	2.25 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.18 V	0.82 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.18 V	20.70 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	46.14 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.18 V	16.10 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	1.60 mA
11	CDC_PA [SMPS, S4]	2.04 V	1.49 mA
12	CDC_CP [SMPS, S4]	2.04 V	1.80 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	0.00 mA

RCM channel	Regulator	VS6A	
		Voltage (V)	I (mA)
41	Rhea_Analog_VDD_1P3 (WLAN)	1.34 V	7.61 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.34 V	0.38 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.13 V	0.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.13 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.13 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	2.91 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	3.54 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.07 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.03 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	1.79 V	2.30 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.70 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	1.78 V	25.28 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	1.79 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.80 V	0.22 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	293.17 mA

Table 4-34 Use Case: Rock bottom sleep

RCM channel	Regulator	APM_WITHOUT_SIM	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.52 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	1.42 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	1.84 V	0.81 mA
55	Rhea_PA_2P85 [LDO,L9]	0.33 V	0.03 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	0.14 V	0.00 mA
141	RF360 [LDO,L18]	0.14 V	0.00 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.03 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	0.00 V	0.00 mA
135	PX5 [LDO,L14]	0.00 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.01 mA
35	PWR_WLED	3.70 V	0.01 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.03 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	0.11 mA
62	PA1	3.70 V	0.02 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.13 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.01 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.02 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA

RCM channel	Regulator	APM_WITHOUT_SIM	
		Voltage (V)	I (mA)
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.24 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	1.10 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.01 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.03 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	0.00 V	0.00 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.02 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.21 V	0.02 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.21 V	0.01 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.21 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.10 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.48 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.02 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.30 V	0.00 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.30 V	0.00 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.30 V	0.00 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.30 V	0.00 mA

RCM channel	Regulator	APM_WITHOUT_SIM	
		Voltage (V)	I (mA)
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.30 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.58 mA

Table 4-35 Use Case: GSM standby 1.18 sec

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.30 mA	0.97 V	73.97 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA	0.00 V	0.14 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2 ,USB2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	0.94 mA	1.26 V	32.22 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMM C,USB2,SMPS,S4]	1.84 V	0.66 mA	2.04 V	19.44 mA
55	Rhea_PA_2P85 [LDO,L9]	0.01 V	0.02 mA	0.01 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.01 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.01 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA	2.06 V	0.84 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA	2.06 V	1.46 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.03 mA	0.00 V	0.05 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.07 mA	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA	3.70 V	0.00 mA
35	PWR_WLED	3.70 V	0.01 mA	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.03 mA	3.70 V	0.16 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
61	PA0	3.70 V	0.20 mA	3.70 V	0.00 mA
62	PA1	3.70 V	0.00 mA	3.70 V	1.09 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.13 mA	3.70 V	0.05 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.01 mA	0.70 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.70 V	2.98 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.02 mA	1.08 V	0.46 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA	1.08 V	0.05 mA
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.24 mA	1.08 V	5.76 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.99 mA	1.20 V	10.89 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA	1.20 V	0.07 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.01 mA	1.20 V	0.07 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.03 mA	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.01 mA	1.20 V	0.01 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA	2.03 V	3.87 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.01 mA	2.04 V	0.03 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	0.00 V	0.00 mA	1.33 V	0.77 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.02 mA	1.33 V	5.13 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA	1.31 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.38 V	0.02 mA	1.73 V	3.66 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.38 V	0.01 mA	1.73 V	0.01 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.38 V	0.00 mA	1.72 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.02 mA

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.80 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.12 mA	1.79 V	0.87 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.45 mA	1.79 V	1.52 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA	1.80 V	0.11 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA	1.80 V	0.01 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA	1.80 V	0.14 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.64 V	0.33 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.67 V	0.02 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.68 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.67 V	0.05 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.67 V	0.83 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.67 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.69 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.40 V	0.00 mA	1.80 V	0.17 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.40 V	0.00 mA	1.80 V	0.52 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.40 V	0.00 mA	1.80 V	0.06 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.40 V	0.00 mA	1.80 V	0.00 mA

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.40 V	0.00 mA	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.55 mA	3.70 V	55.30 mA

Table 4-36 Use Case: LTE standby 2.56 sec

RCM channel	Regulator	G_SLEEP		G_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.00 mA	0.99 V	42.73 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB 2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	1.52 mA	1.26 V	26.16 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	1.84 V	0.94 mA	2.04 V	18.63 mA
55	Rhea_PA_2P85 [LDO,L9]	0.09 V	0.00 mA	0.12 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.01 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	0.14 V	0.00 mA	2.20 V	0.84 mA
141	RF360 [LDO,L18]	0.14 V	0.00 mA	2.20 V	0.84 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.07 mA	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.01 mA	3.70 V	0.00 mA
35	PWR_WLED	3.70 V	0.00 mA	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA

RCM channel	Regulator	G_SLEEP		G_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
38	PWR_CAM_3P7	3.70 V	0.03 mA	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	PA0	3.70 V	0.06 mA	3.70 V	1.97 mA
62	PA1	3.70 V	0.00 mA	3.70 V	1.47 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.05 mA	3.70 V	0.13 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.74 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.74 V	1.54 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.01 mA	1.09 V	0.36 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA	1.09 V	0.05 mA
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.21 mA	1.09 V	5.47 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	1.03 mA	1.20 V	8.93 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.06 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.04 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA	2.03 V	4.00 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	0.00 V	0.00 mA	1.33 V	0.23 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.00 mA	1.33 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA	1.33 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.46 V	0.00 mA	1.75 V	4.29 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.46 V	0.00 mA	1.75 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.46 V	0.00 mA	1.75 V	0.00 mA

RCM channel	Regulator	G_SLEEP		G_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.79 V	0.02 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.13 mA	1.79 V	1.02 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.46 mA	1.79 V	1.05 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA	1.80 V	0.03 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.02 mA	1.79 V	0.09 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.65 V	0.07 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.61 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.60 V	0.15 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.61 V	0.03 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.61 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.61 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.00 V	0.00 mA	0.61 V	0.39 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.64 V	0.00 mA	1.80 V	0.05 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.64 V	0.00 mA	1.80 V	0.54 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.64 V	0.00 mA	1.80 V	0.07 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.64 V	0.00 mA	1.80 V	0.01 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.64 V	0.00 mA	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.68 mA	3.70 V	39.29 mA

Table 4-37 Use Case: LTE TDD standby 2.56 sec

RCM channel	Regulator	FDD_IDLE_SLEEP		FDD_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.39 mA	0.96 V	45.27 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.09 mA	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB 2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	1.23 mA	1.25 V	41.95 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,US B2,SMPS,S4]	1.84 V	0.94 mA	2.04 V	20.14 mA
55	Rhea_PA_2P85 [LDO,L9]	0.09 V	0.00 mA	0.10 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.01 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA	2.19 V	0.89 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA	2.19 V	0.51 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.07 mA	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.01 mA	3.70 V	0.00 mA
35	PWR_WLED	3.70 V	0.00 mA	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.07 mA	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	PA0	3.70 V	0.18 mA	3.70 V	0.87 mA
62	PA1	3.70 V	0.07 mA	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.07 mA	3.70 V	0.18 mA

RCM channel	Regulator	FDD_IDLE_SLEEP		FDD_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.73 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.74 V	7.65 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.01 mA	1.04 V	0.44 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA	1.04 V	0.04 mA
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.26 mA	1.04 V	5.82 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.97 mA	1.20 V	12.46 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA	1.20 V	0.00 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.09 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.03 mA	1.20 V	0.04 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA	2.03 V	3.98 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	0.00 V	0.00 mA	1.33 V	1.73 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.00 mA	1.32 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA	1.33 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.39 V	0.00 mA	1.75 V	6.03 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.39 V	0.00 mA	1.75 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.39 V	0.00 mA	1.75 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.01 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.80 V	0.01 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.11 mA	1.79 V	0.81 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.01 mA

RCM channel	Regulator	FDD_IDLE_SLEEP		FDD_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.45 mA	1.79 V	1.22 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA	1.80 V	0.05 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA	1.80 V	0.11 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA	1.80 V	0.12 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.51 V	0.73 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.52 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.49 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.52 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.01 V	0.01 mA	0.52 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.52 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.50 V	0.15 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.41 V	0.00 mA	1.80 V	0.26 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.41 V	0.00 mA	1.80 V	0.61 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.41 V	0.00 mA	1.80 V	0.14 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.41 V	0.00 mA	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.41 V	0.00 mA	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.64 mA	3.70 V	52.96 mA

Table 4-38 Use Case: TD-SCDMA standby 1.28 sec

RCM channel	Regulator	TDD_SLEEP		TDD_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.02 mA	1.06 V	90.72 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB 2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	1.76 mA	1.27 V	48.89 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,US B2,SMPS,S4]	1.84 V	0.50 mA	2.04 V	25.95 mA
55	Rhea_PA_2P85 [LDO,L9]	0.11 V	0.00 mA	0.10 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA	2.26 V	0.92 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA	2.26 V	0.50 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.01 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.01 mA	0.00 V	0.00 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.01 mA
29	UIM1 [LDO,L14]	1.80 V	0.07 mA	1.80 V	0.07 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA	3.70 V	0.85 mA
35	PWR_WLED	3.70 V	0.00 mA	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.03 mA	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.01 mA
61	PA0	3.70 V	0.13 mA	3.70 V	1.47 mA
62	PA1	3.70 V	0.02 mA	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA

RCM channel	Regulator	TDD_SLEEP		TDD_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
125	PWR_VIBRATOR	3.70 V	0.01 mA	3.70 V	0.01 mA
146	PWR_WLAN	3.70 V	0.07 mA	3.70 V	0.06 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.74 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.74 V	10.36 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.01 mA	1.19 V	0.70 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA	1.19 V	0.09 mA
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.23 mA	1.19 V	9.30 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	1.00 mA	1.20 V	13.32 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.07 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.06 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.01 mA	1.20 V	0.16 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA	2.03 V	4.02 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	0.00 V	0.00 mA	1.31 V	3.49 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.00 mA	1.31 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA	1.32 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.39 V	0.00 mA	1.76 V	10.21 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.39 V	0.00 mA	1.76 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.39 V	0.00 mA	1.75 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.02 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.80 V	0.02 mA

RCM channel	Regulator	TDD_SLEEP		TDD_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.12 mA	1.79 V	0.90 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.01 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.44 mA	1.79 V	1.62 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA	1.80 V	0.11 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA	1.80 V	0.07 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.02 mA	1.79 V	0.12 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.56 V	0.04 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.57 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.57 V	0.37 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.58 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.57 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.57 V	0.08 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.57 V	0.01 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.43 V	0.00 mA	1.80 V	0.54 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.43 V	0.00 mA	1.79 V	0.64 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.43 V	0.00 mA	1.80 V	0.16 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.43 V	0.00 mA	1.80 V	0.01 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.43 V	0.00 mA	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.58 mA	3.70 V	67.81 mA

Table 4-39 Use Case: CDMA QPCH standby 5.12 sec

RCM channel	Regulator	TDS_CDMA_SLEEP		TDS_CDMA_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.09 mA	0.99 V	79.49 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,US B2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	0.77 mA	1.26 V	22.21 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,U SB2,SMPS,S4]	1.84 V	0.48 mA	2.04 V	17.17 mA
55	Rhea_PA_2P85 [LDO,L9]	0.35 V	0.00 mA	0.20 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.01 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.01 mA
138	RF_SW [LDO,L17]	0.15 V	0.00 mA	2.21 V	0.91 mA
141	RF360 [LDO,L18]	0.15 V	0.00 mA	2.21 V	0.55 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.01 mA	0.00 V	0.00 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.07 mA	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA	3.70 V	0.00 mA
35	PWR_WLED	3.70 V	0.01 mA	3.70 V	0.06 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.01 mA	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	PA0	3.70 V	0.17 mA	3.70 V	0.00 mA
62	PA1	3.70 V	0.00 mA	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA

RCM channel	Regulator	TDS_CDMA_SLEEP		TDS_CDMA_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
125	PWR_VIBRATOR	3.70 V	0.01 mA	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.09 mA	3.70 V	0.05 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.71 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.71 V	2.41 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.01 mA	1.10 V	0.45 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA	1.10 V	0.04 mA
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.21 mA	1.09 V	5.63 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.95 mA	1.20 V	11.48 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.03 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.01 mA	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA	2.03 V	3.88 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	0.00 V	0.00 mA	1.31 V	0.64 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.00 mA	1.31 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA	1.32 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.46 V	0.01 mA	1.76 V	3.11 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.46 V	0.00 mA	1.76 V	0.78 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.46 V	0.00 mA	1.75 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.80 V	0.04 mA

RCM channel	Regulator	TDS_CDMA_SLEEP		TDS_CDMA_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.14 mA	1.79 V	0.86 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.44 mA	1.79 V	1.16 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA	1.80 V	0.00 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA	1.80 V	0.00 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.02 mA	1.80 V	0.08 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.61 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.64 V	0.01 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.62 V	1.17 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.65 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.01 V	0.01 mA	0.65 V	0.05 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.01 V	0.01 mA	0.65 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.64 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.63 V	0.00 mA	1.80 V	0.15 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.63 V	0.00 mA	1.80 V	0.57 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.63 V	0.00 mA	1.80 V	0.06 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.63 V	0.00 mA	1.80 V	0.01 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.63 V	0.00 mA	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.58 mA	3.70 V	41.80 mA

Table 4-40 Use Case: GSM talk + 5 dBm, no DTx, PGSM

RCM channel	Regulator	CDMA_SLEEP		CDMA_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.52 V	0.65 mA	0.96 V	47.94 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.08 mA	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,US B2,MIPI_CSI&DSI ,SMPS,S3]	1.23 V	1.33 mA	1.25 V	25.60 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,US B2,SMPS,S4]	1.84 V	0.79 mA	2.04 V	20.48 mA
55	Rhea_PA_2P85 [LDO,L9]	0.03 V	0.00 mA	0.02 V	0.09 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.01 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	0.14 V	0.00 mA	2.30 V	0.93 mA
141	RF360 [LDO,L18]	0.14 V	0.00 mA	2.30 V	1.16 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.01 mA	0.00 V	0.02 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.03 mA
29	UIM1 [LDO,L14]	1.80 V	0.08 mA	1.80 V	0.07 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA	3.70 V	0.00 mA
35	PWR_WLED	3.70 V	0.02 mA	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.09 mA	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	PA0	3.70 V	0.12 mA	3.70 V	1.38 mA
62	PA1	3.70 V	0.00 mA	3.70 V	0.44 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.01 mA	3.70 V	0.01 mA
146	PWR_WLAN	3.70 V	0.08 mA	3.70 V	0.00 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.81 V	0.00 mA

RCM channel	Regulator	CDMA_SLEEP		CDMA_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.00 V	0.00 mA	0.82 V	6.36 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	0.65 V	0.01 mA	1.06 V	0.37 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	0.65 V	0.00 mA	1.06 V	0.05 mA
5	MX [LDO,L3,SUB SMPS,S3]	0.65 V	0.31 mA	1.06 V	5.43 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	1.10 mA	1.20 V	10.58 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.04 mA	1.20 V	0.14 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.06 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.03 mA	1.20 V	0.04 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.02 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	1.84 V	0.00 mA	2.03 V	4.38 mA
11	CDC_PA [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.00 mA
12	CDC_CP [SMPS, S4]	1.84 V	0.00 mA	2.04 V	0.11 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBXXGPS_1P3	0.00 V	0.00 mA	1.33 V	1.60 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	0.00 V	0.00 mA	1.33 V	1.34 mA
124	VREG_ext_L2_MSM_WLAN_1P3	0.00 V	0.00 mA	1.31 V	0.16 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.33 V	0.00 mA	1.74 V	3.35 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.33 V	0.00 mA	1.74 V	0.04 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.33 V	0.00 mA	1.74 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.01 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.80 V	0.05 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.12 mA	1.79 V	0.78 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	0.49 mA	1.79 V	1.13 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA	1.80 V	0.07 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.80 V	0.01 mA

RCM channel	Regulator	CDMA_SLEEP		CDMA_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
131	VREG_L5_CH0_RF360_1P8[LDO,L5, SUB SMPS,S4]	1.79 V	0.02 mA	1.79 V	0.05 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.40 V	0.48 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.42 V	0.02 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.42 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.42 V	0.04 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.42 V	0.81 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.42 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.01 V	0.00 mA	0.43 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	0.33 V	0.00 mA	1.78 V	0.43 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	0.33 V	0.00 mA	1.78 V	0.69 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	0.33 V	0.00 mA	1.80 V	0.08 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	0.33 V	0.00 mA	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	0.33 V	0.00 mA	1.79 V	0.00 mA
	BATTERY (Measured)	3.70 V	1.66 mA	3.70 V	49.18 mA

Table 4-41 Use Case: WCDMA talk + 0 dBm, IMT

RCM Channel	Regulator	G_TALK		W_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.96 V	68.43 mA	0.97 V	100.84 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB 2,MIPI_CSI&DSI ,SMPS,S3]	1.25 V	37.54 mA	1.25 V	81.76 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,US B2,SMPS,S4]	2.05 V	34.81 mA	2.05 V	42.00 mA
55	Rhea_PA_2P85 [LDO,L9]	0.32 V	0.02 mA	0.89 V	0.03 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.01 mA	3.07 V	0.01 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA

RCM Channel	Regulator	G_TALK		W_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	2.69 V	1.01 mA	2.69 V	1.01 mA
141	RF360 [LDO,L18]	2.69 V	2.65 mA	2.69 V	1.41 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.02 mA	0.00 V	0.02 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.09 mA	1.80 V	0.09 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	1.24 mA	3.70 V	1.21 mA
35	PWR_WLED	3.70 V	0.00 mA	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.00 mA	3.70 V	0.00 mA
39	PWR_MISC	3.70 V	0.00 mA	3.70 V	0.00 mA
61	PA0	3.70 V	12.25 mA	3.70 V	9.60 mA
62	PA1	3.70 V	0.01 mA	3.70 V	0.04 mA
70	PWR_WCD	0.00 V	0.00 mA	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.01 mA	3.70 V	0.01 mA
146	PWR_WLAN	3.70 V	0.12 mA	3.70 V	0.12 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	1.00 V	0.01 mA	0.99 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	9.39 mA	0.98 V	56.77 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.05 V	0.38 mA	1.05 V	0.39 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.05 V	1.39 mA	1.05 V	3.23 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.05 V	5.54 mA	1.05 V	6.14 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	13.40 mA	1.20 V	9.34 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.01 mA	1.20 V	0.01 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA

RCM Channel	Regulator	G_TALK		W_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.19 mA	2.04 V	5.19 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	0.76 mA	1.35 V	3.13 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.03 mA	1.35 V	0.03 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	12.77 mA	1.79 V	13.55 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.01 mA	1.79 V	0.01 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.60 mA	1.79 V	0.60 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	2.97 mA	1.79 V	2.87 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	1.42 mA	1.79 V	1.41 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA	1.79 V	0.06 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.22 mA	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5, SUB SMPS,S4]	1.79 V	0.99 mA	1.79 V	0.61 mA

RCM Channel	Regulator	G_TALK		W_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.55 V	0.00 mA	0.48 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.55 V	0.00 mA	0.48 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.55 V	0.01 mA	0.48 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.55 V	0.00 mA	0.48 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.55 V	0.00 mA	0.48 V	0.01 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.55 V	0.00 mA	0.48 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.55 V	0.00 mA	0.48 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.80 V	0.15 mA	1.79 V	0.53 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.09 mA	1.79 V	1.09 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	1.26 mA	1.79 V	5.63 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	78.39 mA	3.70 V	106.44 mA

Table 4-42 Use Case: GSM talk + 5 dBm, no DTx, PGSM

RCM channel	Regulator	TDS-CDMA_TALK	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.97 V	68.71 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.25 V	42.65 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	31.02 mA
55	Rhea_PA_2P85 [LDO,L9]	0.79 V	0.02 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.01 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA

RCM channel	Regulator	TDS-CDMA_TALK	
		Voltage (V)	I (mA)
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	2.69 V	0.99 mA
141	RF360 [LDO,L18]	2.69 V	1.48 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.02 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.09 mA
135	PX5 [LDO,L14]	1.80 V	0.01 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	1.23 mA
35	PWR_WLED	3.70 V	0.01 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.02 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	8.26 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.11 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	0.01 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	18.20 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.05 V	0.39 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.05 V	1.80 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.05 V	5.30 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	10.48 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.01 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.01 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.17 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.35 V	4.19 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.02 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA

RCM channel	Regulator	TDS-CDMA_TALK	
		Voltage (V)	I (mA)
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	7.08 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.01 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.60 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	2.68 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	1.26 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.05 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.73 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.79 V	0.92 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.08 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	1.63 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	73.60 mA

Table 4-43 Use Case: WCDMA talk + 0 dBm, IMT

RCM channel	Regulator	CDMA_TALK	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.97 V	100.56 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.00 V	0.00 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI ,SMPS,S3]	1.25 V	76.03 mA

RCM channel	Regulator	CDMA_TALK	
		Voltage (V)	I (mA)
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	40.66 mA
55	Rhea_PA_2P85 [LDO,L9]	2.68 V	0.08 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	3.07 V	0.01 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	2.69 V	1.01 mA
141	RF360 [LDO,L18]	2.69 V	1.56 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	0.00 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	0.00 V	0.02 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.07 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	1.29 mA
35	PWR_WLED	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.09 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	5.62 mA
62	PA1	3.70 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.12 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.98 V	53.63 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.05 V	0.40 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.05 V	2.74 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.05 V	6.15 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	7.19 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.03 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA

RCM channel	Regulator	CDMA_TALK	
		Voltage (V)	I (mA)
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.20 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.01 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	4.24 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.04 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	14.50 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.01 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.79 V	0.60 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.05 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	2.80 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	1.13 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.06 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.22 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.67 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.03 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.79 V	0.92 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.09 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	4.42 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	98.58 V

Table 4-44 Use Case: TD-SCDMA talk 0 dBm, B34

RCM channel	Regulator	HSDPA_7.2	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.97 V	149.99 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.88 V	49.99 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI ,SMPS,S3]	1.27 V	112.60 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	52.96 mA
55	Rhea_PA_2P85 [LDO,L9]	2.80 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	2.69 V	1.01 mA
141	RF360 [LDO,L18]	2.69 V	1.42 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.89 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.89 V	0.13 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.00 mA
35	PWR_WLED	3.70 V	0.00 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.01 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	9.98 mA
62	PA1	3.70 V	0.03 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.03 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.98 V	70.75 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.21 V	1.01 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.21 V	2.86 mA

RCM channel	Regulator	HSDPA_7.2	
		Voltage (V)	I (mA)
5	MX [LDO,L3,SUB SMPS,S3]	1.21 V	15.18 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	14.57 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.20 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	9.96 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	21.43 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.78 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	1.71 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.14 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.67 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.02 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.79 V	1.87 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.09 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	5.63 mA

RCM channel	Regulator	HSDPA_7.2	
		Voltage (V)	I (mA)
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
	BATTERY(MEASURED)	3.70 V	155.48mA

Table 4-45 Use Case: CDMA talk + 0 dBm

RCM channel	Regulator	DC_HSPA	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.97 V	147.80 mA
8	S2_OUTPUT [APC,SMPS,S2]	1.04 V	69.42 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.27 V	115.77 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	48.77 mA
55	Rhea_PA_2P85 [LDO,L9]	2.80 V	0.04 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	2.69 V	1.01 mA
141	RF360 [LDO,L18]	2.69 V	1.41 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.89 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.89 V	0.17 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.70 V	0.04 mA
35	PWR_WLED	3.70 V	0.01 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.02 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	9.44 mA
62	PA1	3.70 V	0.00 mA

RCM channel	Regulator	DC_HSPA	
		Voltage (V)	I (mA)
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.11 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.98 V	57.76 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.21 V	1.39 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.20 V	2.83 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.21 V	20.55 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	20.58 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.01 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.20 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	7.06 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.03 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	18.86 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.01 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.80 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	2.05 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.15 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.67 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA

RCM channel	Regulator	DC_HSPA	
		Voltage (V)	I (mA)
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.48 V	0.01 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.79 V	1.22 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.09 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	5.63 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
	BATTERY (Measured)	3.70 V	159.95 mA

Table 4-46 Use Case: HSDPA downlink 7.2 Mbps + 0 dBm, IMT (Rx/D)

RCM channel	Regulator	TDS_HSDPA	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	0.97 V	96.42 mA
8	S2_OUTPUT [APC,SMPS,S2]	0.89 V	48.31 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.27 V	75.52 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	37.04 mA
55	Rhea_PA_2P85 [LDO,L9]	2.81 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	2.69 V	0.99 mA
141	RF360 [LDO,L18]	2.69 V	2.30 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.89 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.89 V	0.11 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA

RCM channel	Regulator	TDS_HSDPA	
		Voltage (V)	I (mA)
69	CDC_BOOST_OUTPUT	3.70 V	0.02 mA
35	PWR_WLED	3.70 V	0.01 mA
36	PWR_HRLED	3.70 V	0.00 mA
38	PWR_CAM_3P7	3.70 V	0.09 mA
39	PWR_MISC	3.70 V	0.00 mA
61	PA0	3.70 V	8.34 mA
62	PA1	3.70 V	0.02 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.70 V	0.00 mA
146	PWR_WLAN	3.70 V	0.04 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	32.95 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.21 V	1.01 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.21 V	1.18 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.21 V	13.49 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.20 V	17.06 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.18 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	4.22 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	14.92 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.61 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	1.73 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.80 V	0.12 mA

RCM channel	Regulator	TDS_HSDPA	
		Voltage (V)	I (mA)
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.72 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.79 V	0.92 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.09 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	1.62 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.01 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
	BATTERY (Measured)	3.70 V	113.09 mA

Table 4-47 Use Case: DC HSDPA downlink 42 Mbps + 0 dBm, IMT (No Rx/D)

RCM channel	Regulator	TDD_LTE_CAT3	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.09 V	282.67 mA
8	S2_OUTPUT [APC,SMPS,S2]	1.04 V	133.50 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI,SMPS,S3]	1.27 V	140.39 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	67.31 mA
55	Rhea_PA_2P85 [LDO,L9]	2.71 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	1.81 V	35.16 mA

RCM channel	Regulator	TDD_LTE_CAT3	
		Voltage (V)	I (mA)
141	RF360 [LDO,L18]	2.69 V	0.79 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.89 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.89 V	0.10 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.09 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.69 V	0.02 mA
35	PWR_WLED	3.69 V	0.02 mA
36	PWR_HRLED	3.69 V	0.00 mA
38	PWR_CAM_3P7	3.69 V	0.02 mA
39	PWR_MISC	3.69 V	0.00 mA
61	PA0	3.69 V	3.71 mA
62	PA1	3.69 V	0.08 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.69 V	0.00 mA
146	PWR_WLAN	3.69 V	0.02 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.99 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.98 V	63.21 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.21 V	2.02 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.21 V	1.64 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.21 V	29.88 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	27.77 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.20 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.20 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.20 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBXXGPS_1P3	1.33 V	23.92 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.34 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	21.01 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA

RCM channel	Regulator	TDD_LTE_CAT3	
		Voltage (V)	I (mA)
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.61 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	2.55 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.11 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.80 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.71 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.48 V	0.01 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.78 V	3.69 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.10 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	2.43 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.80 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
	BATTERY (Measured)	3.69 V	251.07 mA

Table 4-48 Use Case: TDSCDMA HSDPA 2.8 Mbps 0dbm RXD off, Embedded

RCM channel	Regulator	FDD_LTE_CAT3	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.08 V	290.91 mA
8	S2_OUTPUT [APC,SMPS,S2]	1.04 V	154.10 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI ,SMPS,S3]	1.27 V	184.99 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	68.50 mA
55	Rhea_PA_2P85 [LDO,L9]	2.80 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA

RCM channel	Regulator	FDD_LTE_CAT3	
		Voltage (V)	I (mA)
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	1.81 V	35.16 mA
141	RF360 [LDO,L18]	2.69 V	1.41 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.89 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.89 V	0.15 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.09 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.69 V	0.00 mA
35	PWR_WLED	3.69 V	0.00 mA
36	PWR_HRLED	3.69 V	0.00 mA
38	PWR_CAM_3P7	3.69 V	0.06 mA
39	PWR_MISC	3.69 V	0.00 mA
61	PA0	3.69 V	6.00 mA
62	PA1	3.69 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.69 V	0.00 mA
146	PWR_WLAN	3.69 V	0.00 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.98 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.97 V	80.75 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.21 V	2.44 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.21 V	2.86 mA
5	MX [LDO,L3,SUB SMPS,S3]	1.21 V	36.07 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	42.15 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.20 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.20 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA

RCM channel	Regulator	FDD_LTE_CAT3	
		Voltage (V)	I (mA)
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.34 V	14.05 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.35 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	29.07 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.72 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	3.57 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.15 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.01 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.60 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.01 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.79 V	2.36 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.11 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	5.64 mA
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
	BATTERY (Measured)	3.69 V	279.02 mA

Table 4-49 Use Case: LTE TDD Cat 3 20 MHz (60/18 Mbps + 0 dBm, B41)

RCM channel	Regulator	FDD_LTE_CAT4	
		Voltage (V)	I (mA)
3	S1_OUTPUT [CX,MSS,GFX,MDSP,CDC, SMPS,S1]	1.10 V	461.92 mA
8	S2_OUTPUT [APC,SMPS,S2]	1.07 V	234.07 mA
6	S3_OUTPUT [MX,RF1,PX1,L1,L2_L3,LPDDR2,USB2,MIPI_CSI&DSI ,SMPS,S3]	1.31 V	231.90 mA
10	S4_OUTPUT [RF2,PX3,PX7,L4,L5,L6,L7,eMMC,USB2,SMPS,S4]	2.05 V	89.08 mA
55	Rhea_PA_2P85 [LDO,L9]	2.57 V	0.00 mA
58	PX2 [LDO,L12]	0.00 V	0.00 mA
23	HS_USB2_3P3 [LDO,L13]	0.00 V	0.00 mA
148	ACCMTR / Compass / AMBT light ANA [LDO,L17]	0.00 V	0.00 mA
59	LCD1_MIPI [LDO,L17]	0.00 V	0.00 mA
60	Cap TS_2P85 [LDO,L17]	0.00 V	0.00 mA
66	MIPI-8MP_2P85 [LDO,L17]	0.00 V	0.00 mA
67	VGA_CAM_2P85 [LDO,L18]	0.00 V	0.00 mA
138	RF_SW [LDO,L17]	1.81 V	35.15 mA
141	RF360 [LDO,L18]	2.69 V	1.41 mA
65	VREG_L8_CAM0_VDDAF_2P9 [LDO,L8]	2.16 V	0.00 mA
54	eMMC_2P9 [LDO,L8]	2.16 V	0.17 mA
57	SD/MMC_1P8 [LDO,L11]	0.00 V	0.00 mA
29	UIM1 [LDO,L14]	1.80 V	0.08 mA
135	PX5 [LDO,L14]	1.80 V	0.00 mA
30	UIM2 [LDO,L15]	0.00 V	0.00 mA
136	PX6 [LDO,L15]	0.00 V	0.00 mA
69	CDC_BOOST_OUTPUT	3.69 V	0.04 mA
35	PWR_WLED	3.69 V	0.03 mA
36	PWR_HRLED	3.69 V	0.00 mA
38	PWR_CAM_3P7	3.69 V	0.12 mA
39	PWR_MISC	3.69 V	0.00 mA
61	PA0	3.69 V	6.37 mA
62	PA1	3.69 V	0.00 mA
70	PWR_WCD	0.00 V	0.00 mA
71	PWR_MEGASIM	0.00 V	0.00 mA
125	PWR_VIBRATOR	3.69 V	0.00 mA
146	PWR_WLAN	3.69 V	0.02 mA
43	WTR1_WTR2605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.98 V	0.00 mA
56	WTR0_WTR1605_RF1_1P3 [LDO,L1,SUB SMPS,S3]	0.97 V	82.37 mA
49	LPDDR2_EBIO [LDO,L3,SUB SMPS,S3]	1.24 V	4.06 mA
21	MODEM_BIMC_PLL [LDO,L3,SUB SMPS,S3]	1.24 V	3.06 mA

RCM channel	Regulator	FDD_LTE_CAT4	
		Voltage (V)	I (mA)
5	MX [LDO,L3,SUB SMPS,S3]	1.24 V	60.03 mA
45	LPDDR2 [LDO,L2,SUB SMPS,S3]	1.19 V	50.06 mA
46	MIPI_DSI_1P2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.01 mA
47	MIPI_CSI_1p2 [LDO,L2,SUB SMPS,S3]	1.19 V	0.00 mA
143	HS_USB2_1P15 [LDO,L2,SUB SMPS,S3]	1.19 V	0.05 mA
140	MIPI 8MP Camera_VDD_1P2 (Dig Core)[LDO,L2,SMPS,S3]	1.19 V	0.00 mA
14	RF_CLK + PM8916_XO_Block [SMPS, S4]	2.04 V	5.20 mA
11	CDC_PA [SMPS, S4]	2.05 V	0.00 mA
12	CDC_CP [SMPS, S4]	2.05 V	0.00 mA
150	S4_CDC [SMPS, S4]	0.00 V	0.00 mA
20	VREG_ext_L2_MSM_BBRXGPS_1P3	1.33 V	28.37 mA
41	Rhea_Analog_VDD_1P3 (WLAN)	1.35 V	0.00 mA
124	VREG_ext_L2_MSM_WLAN_1P3	1.34 V	0.00 mA
48	WTR0_WTR1605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	32.51 mA
50	WTR1_WTR2605_RF2_2P05 [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
126	GPS_eLNA [LDO,L4,SUB SMPS,S4]	1.79 V	0.00 mA
68	CDC_ANA_DIG [LDO,L5,SUB SMPS,S4]	1.80 V	0.00 mA
22	Rhea I/O [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
37	LDO5_MISC [LDO,L5,SUB SMPS,S4]	1.79 V	0.04 mA
51	PX3 [LDO,L5,SUB SMPS,S4]	1.79 V	0.73 mA
137	PX4 [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
52	LPDDR2_CH0 [LDO,L5,SUB SMPS,S4]	1.79 V	4.14 mA
53	eMMC_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.17 mA
64	PX7 [LDO,L5,SUB SMPS,S4]	1.79 V	0.02 mA
142	NFC [LDO,L5,SUB SMPS,S4]	1.79 V	0.00 mA
149	LDO5_WCD [LDO,L5,SUB SMPS,S4]	0.00 V	0.00 mA
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S4]	1.79 V	0.23 mA
131	VREG_L5_CH0_RF360_1P8[LDO,L5,SUB SMPS,S4]	1.79 V	0.59 mA
42	MIPI_DSI_1P8 & PLL [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
128	ACMTR+CMPS DIG [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
25	Cap TS_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
127	MIPI_CAM_8MP_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
129	LCD1_MIPI [LDO,L6,SUB SMPS,S4]	0.48 V	0.01 mA
134	QFPROM [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
147	VGA_CAM_1P8 [LDO,L6,SUB SMPS,S4]	0.48 V	0.00 mA
130	HV_BBRX [LDO,L7,SUB SMPS,S4]	1.78 V	3.75 mA
133	SR_PLL [LDO,L7,SUB SMPS,S4]	1.79 V	1.42 mA
26	TXDAC0_1 [LDO,L7,SUB SMPS,S4]	1.79 V	5.65 mA

RCM channel	Regulator	FDD_LTE_CAT4	
		Voltage (V)	I (mA)
27	HS_USB_1P8 [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
139	Rhea_CLK_XO [LDO,L7,SUB SMPS,S4]	1.79 V	0.00 mA
	BATTERY (Measured)	3.69 V	410.90 mA

4.3.3 Lollipop APPS CS Build PM8909

This section lists breakdown data for the Modem and Multimedia use cases based on the release MSM8909.LA.1.1-01130-STD.PROD-1 (2*512MB, Lollipop APPS and PM8909).

Table 4-50 Use Case: MP3 playback 128 kbps (Tunnel mode – DSP audio codec)

RCM channel	Regulator	AU41	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.94 V	20.42 V
8	APC[SMPS,S1]	0.94 V	2.01 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.36 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.60 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	3.91 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.01 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.00 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.11 V
62	GSM PA_2_VPH	3.70 V	0.02 V
74	CDC_VBAT	3.70 V	0.33 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.11 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.02 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.16 V	0.02 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V

RCM channel	Regulator	AU41	
		Voltage (V)	I (mA)
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	2.96 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	0.76 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.26 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.08 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.01 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.27 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	2.59 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	2.82 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.72 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.06 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.01 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V

RCM channel	Regulator	AU41	
		Voltage (V)	I (mA)
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.29 V	0.02 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.29 V	0.01 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.07 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.03 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	2.58 V	0.04 V
	Battery Measurement	3.691 V	20.67 mA

Table 4-51 Use Case: H.264 720p decode, 30 fps

RCM channel	Regulator	QTC77A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.08 V	87.05 V
8	APC[SMPS,S1]	1.08 V	55.82 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.40 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.70 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	44.69 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.01 V
35	Ext_BackLight_Driver_VPH	3.67 V	131.29 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.02 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.11 V
62	GSM PA_2_VPH	3.70 V	0.02 V
74	CDC_VBAT	3.70 V	0.33 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.10 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.33 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V

RCM channel	Regulator	QTC77A	
		Voltage (V)	I (mA)
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.06 V	0.03 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	30.97 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.01 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.18 V	16.58 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.18 V	0.79 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.18 V	1.54 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.35 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	22.55 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.02 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	20.97 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	43.59 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.27 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	2.82 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	3.48 V

RCM channel	Regulator	QTC77A	
		Voltage (V)	I (mA)
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.80 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.04 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.01 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.21 V	0.01 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.21 V	0.01 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.06 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBXX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.04 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	2.61 V	0.02 V
	Battery Measurement	3.691 V	294.61 mA

Table 4-52 Use Case: H.264 1080p decode, 30 fps

RCM channel	Regulator	QTC88A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.09 V	114.67 V
8	APC[SMPS,S1]	1.09 V	54.70 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	1.42 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	1.71 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	52.11 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.01 V
35	Ext_BackLight_Driver_VPH	3.67 V	131.25 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.01 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.09 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.33 V

RCM channel	Regulator	QTC88A	
		Voltage (V)	I (mA)
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.09 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.60 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.07 V	0.02 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.04 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.01 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.19 V	23.24 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.19 V	0.79 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.19 V	2.13 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.35 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	22.76 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.02 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	34.68 V

RCM channel	Regulator	QTC88A	
		Voltage (V)	I (mA)
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	63.40 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.26 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	2.82 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	4.55 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	1.56 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.08 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.01 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.21 V	0.01 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.21 V	0.01 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.06 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.03 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	2.62 V	0.02 V
	Battery Measurement	3.691 V	327.73 mA

Table 4-53 Use Case: Static Image Display

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.94 V	30.53 V
8	APC[SMPS,S1]	0.94 V	1.71 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	29.35 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	1.99 V
35	Ext_BackLight_Driver_VPH	3.67 V	131.46 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.06 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.02 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.11 V
19	EXT_BOOST	3.70 V	0.03 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.01 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.08 V	0.01 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	30.37 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.01 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	4.77 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	0.01 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.43 V

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.34 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	20.95 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.01 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	2.65 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	13.55 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	0.46 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	1.26 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.06 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.28 V	0.01 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.28 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.06 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V

RCM channel	Regulator	LCD04A	
		Voltage (V)	I (mA)
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.03 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.71 V	0.02 V
	Battery Measurement	3.691 V	213.26 mA

Table 4-54 Use Case: Camera Preview 24fps

RCM channel	Regulator	QMC38A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.10 V	147.23 V
8	APC[SMPS,S1]	1.10 V	97.95 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	72.12 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.09 V
35	Ext_BackLight_Driver_VPH	3.67 V	130.68 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.05 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.06 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.06 V
19	EXT_BOOST	3.70 V	0.02 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.89 V	0.04 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.88 V	28.02 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.13 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.13 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.02 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V

RCM channel	Regulator	QMC38A	
		Voltage (V)	I (mA)
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.40 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.83 V	21.41 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.20 V	39.47 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.21 V	0.02 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.20 V	3.42 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.35 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	3.09 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	22.84 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	46.52 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	67.32 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.14 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.19 V	3.68 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.19 V	68.87 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.19 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	4.36 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	4.95 V

RCM channel	Regulator	QMC38A	
		Voltage (V)	I (mA)
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.07 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.20 V	0.00 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.20 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.07 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBXR [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.10 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.89 V	0.00 V
	Battery Measurement	3.691 V	461.14 mA

Table 4-55 Use Case: H.264 720p encode, 30 fps

RCM channel	Regulator	QMC15A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.13 V	187.12 V
8	APC[SMPS,S1]	1.13 V	162.72 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	77.02 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.36 V
35	Ext_BackLight_Driver_VPH	3.67 V	130.70 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.15 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.03 V

RCM channel	Regulator	QMC15A	
		Voltage (V)	I (mA)
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.05 V
19	EXT_BOOST	3.70 V	0.05 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.89 V	0.76 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.88 V	28.12 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.13 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.13 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.09 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.72 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.83 V	21.48 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.23 V	41.67 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.23 V	0.81 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.23 V	3.72 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.35 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	3.11 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	24.44 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V

RCM channel	Regulator	QMC15A	
		Voltage (V)	I (mA)
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	43.54 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	79.42 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.24 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.19 V	2.47 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.19 V	47.33 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.19 V	0.06 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	6.09 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	5.01 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.61 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.17 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.54 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.20 V	0.00 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.20 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.07 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.33 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.95 V	0.00 V
	Battery Measurement	3.691 V	500.13 mA

Table 4-56 Use Case: 3D UI 30 fps (graphic, PowerLift)

RCM channel	Regulator	QGC23A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.09 V	100.48 V
8	APC[SMPS,S1]	1.09 V	70.80 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	50.41 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.00 V
35	Ext_BackLight_Driver_VPH	3.67 V	131.09 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.07 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.04 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.08 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.00 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.07 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	34.64 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.18 V	23.72 V

RCM channel	Regulator	QGC23A	
		Voltage (V)	I (mA)
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.19 V	0.02 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.18 V	2.09 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.34 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	21.36 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	22.79 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	49.83 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	16.27 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.06 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	0.46 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	3.51 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.06 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.21 V	0.00 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.21 V	0.00 V

RCM channel	Regulator	QGC23A	
		Voltage (V)	I (mA)
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.07 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.03 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.71 V	0.00 V
	Battery Measurement	3.691 V	309.84 mA

Table 4-57 Use Case: 3D Game 60fps (Egypt)

RCM channel	Regulator		
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.22 V	248.72 V
8	APC[SMPS,S1]	1.22 V	205.47 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.02 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	98.15 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.85 V
35	Ext_BackLight_Driver_VPH	3.67 V	131.07 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.09 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.08 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.08 V
19	EXT_BOOST	3.70 V	0.06 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.68 V	0.01 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.68 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V

RCM channel	Regulator		
		Voltage (V)	I (mA)
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.53 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	31.89 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.62 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.33 V	66.66 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.33 V	0.83 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.33 V	5.78 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.35 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	21.42 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	41.93 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	107.04 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	15.23 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.19 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.19 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.19 V	0.06 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	0.47 V

RCM channel	Regulator		
		Voltage (V)	I (mA)
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	5.90 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.07 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.22 V	0.00 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.22 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.07 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	0.83 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.78 V	0.00 V
	Battery Measurement	3.691 V	493.03 mA

Table 4-58 Use Case: Browser over Wi-Fi

RCM channel	Regulator	WB1A	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.98 V	37.84 V
8	APC[SMPS,S1]	0.98 V	14.94 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.02 V
28	VIN_L1 [SMPS,S2]	1.95 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	35.08 V
40	VIN_L4_L7 [SMPS,S2]	1.95 V	2.18 V
35	Ext_BackLight_Driver_VPH	3.67 V	131.03 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.08 V
39	VPH_PWR_MISC	3.70 V	0.00 V

RCM channel	Regulator	WB1A	
		Voltage (V)	I (mA)
61	GSM PA_1_VPH	3.70 V	0.16 V
62	GSM PA_2_VPH	3.70 V	0.08 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.01 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.06 V
19	EXT_BOOST	3.70 V	0.05 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.06 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.02 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.14 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.14 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.52 V	0.20 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.01 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	2.84 V	32.97 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	2.84 V	0.63 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	2.84 V	0.00 V
148	Sensors [LDO,L17]	2.84 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.08 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.01 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.09 V	6.70 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.09 V	0.03 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.09 V	0.61 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.73 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	1.79 V	2.34 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	1.78 V	20.42 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	1.79 V	0.00 V

RCM channel	Regulator	WB1A	
		Voltage (V)	I (mA)
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.11 V	3.79 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.11 V	0.20 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	3.86 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	16.53 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.19 V	14.76 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.79 V	0.47 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	1.50 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.09 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.79 V	0.01 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.03 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.79 V	0.00 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.12 V	0.00 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.12 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.81 V	0.07 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.81 V	0.01 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.15 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.81 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.75 V	0.00 V
	Battery Measurement	3.691 V	228.92 mA

Table 4-59 Use Case: Rock bottom sleep

RCM channel	Regulator	APM_without_sim	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51 V	0.34 V
8	APC[SMPS,S1]	0.51 V	0.00 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.94 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.94 V	0.00 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	0.17 V
34	VIN_L2_L5 [SMPS,S2]	1.94 V	2.09 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	0.00 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.04 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.12 V
62	GSM PA_2_VPH	3.70 V	0.01 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.08 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.01 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.16 V	0.00 V
141	RF360_VDD_2P7 [LDO,L18]	0.16 V	0.00 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.15 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	0.00 V	0.00 V
135	VDDPX_5 [LDO,L14]	0.00 V	0.00 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V

RCM channel	Regulator	APM_without_sim	
		Voltage (V)	I (mA)
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.65 V	0.23 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	0.65 V	0.00 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.65 V	0.01 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	0.91 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.03 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.03 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.05 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.19 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.44 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.05 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.23 V	0.01 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.23 V	0.00 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.23 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	0.65 V	0.00 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	0.65 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	0.65 V	0.00 V

RCM channel	Regulator	APM_without_sim	
		Voltage (V)	I (mA)
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	0.65 V	0.00 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	0.65 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.72 V	0.00 V
	Battery Measurement	3.698 V	1.77 mA

Table 4-60 Use Case: GSM standby 1.18 sec

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.51 V	0.21 V	0.93 V	48.81 V
8	APC[SMPS,S1]	0.51 V	0.06 V	0.93 V	0.68 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.94 V	0.00 V	1.95 V	0.02 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.94 V	0.00 V	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.94 V	0.00 V	1.95 V	4.66 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	0.18 V	1.95 V	7.31 V
34	VIN_L2_L5 [SMPS,S2]	1.94 V	2.25 V	1.95 V	19.98 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	0.01 V	1.95 V	5.28 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V	3.70 V	0.00 V
36	VPH_PWR_HRLED	3.70 V	0.00 V	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.07 V	3.70 V	0.00 V
39	VPH_PWR_MISC	3.70 V	0.00 V	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	0.12 V	3.70 V	1.14 V
62	GSM PA_2_VPH	3.70 V	0.05 V	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.15 V	3.70 V	0.49 V
19	EXT_BOOST	3.70 V	0.00 V	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.04 V	0.00 V	0.05 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	0.16 V	0.00 V	2.03 V	0.81 V
141	RF360_VDD_2P7 [LDO,L18]	0.16 V	0.00 V	2.05 V	0.35 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.02 V	0.04 V	0.02 V	0.07 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.07 V	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V	1.79 V	0.01 V

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V	0.00 V	0.01 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.02 V	0.73 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.00 V	0.00 V	0.72 V	4.14 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	0.65 V	0.24 V	1.06 V	5.50 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	0.65 V	0.00 V	1.06 V	0.07 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	0.65 V	0.02 V	1.07 V	0.58 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.01 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.03 V	0.00 V	0.04 V	0.01 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	0.00 V	0.03 V	0.95 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	0.00 V	0.00 V	0.95 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	0.03 V	1.20 V	6.62 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	0.96 V	1.20 V	12.21 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.04 V	1.20 V	0.00 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.03 V	1.20 V	0.03 V

RCM channel	Regulator	W_SLEEP		W_AWAKE	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.21 V	1.80 V	0.56 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.44 V	1.80 V	1.53 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.06 V	1.80 V	0.07 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.06 V	1.80 V	0.10 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.01 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V	1.80 V	0.01 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.44 V	0.03 V	1.70 V	2.79 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.44 V	0.02 V	1.71 V	0.02 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.44 V	0.00 V	1.71 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	0.63 V	0.00 V	1.73 V	0.24 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	0.63 V	0.00 V	1.73 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	0.63 V	0.00 V	1.74 V	0.14 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	0.63 V	0.00 V	1.73 V	0.47 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	0.63 V	0.00 V	1.74 V	0.02 V
145	WCD_CDC_BOOST_VREG_5V	1.68 V	0.05 V	1.68 V	0.13 V
	Battery Measurement	3.699 V	1.91 mA	3.699 V	47.07 mA

Table 4-61 Use Case: WCDMA talk + 0 dBm, IMT

RCM channel	Regulator	W_TALK		G_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.93 V	96.62 V	0.92 V	64.67 V
8	APC[SMPS,S1]	0.94 V	0.00 V	0.92 V	0.00 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.94 V	64.27 V	1.95 V	9.83 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	12.18 V	1.95 V	8.59 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	22.22 V	1.95 V	29.64 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	22.26 V	1.94 V	16.97 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.00 V	3.70 V	0.00 V
36	VPH_PWR_HRLED	3.70 V	0.00 V	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.00 V	3.70 V	0.03 V
39	VPH_PWR_MISC	3.70 V	0.00 V	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	10.12 V	3.70 V	12.75 V
62	GSM PA_2_VPH	3.70 V	0.06 V	3.70 V	0.02 V
74	CDC_VBAT	3.70 V	1.05 V	3.70 V	1.05 V
125	VIB MOTOR_VPH	3.70 V	0.00 V	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.10 V	3.70 V	0.11 V
19	EXT_BOOST	3.70 V	0.00 V	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.02 V	0.00 V	0.02 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.04 V	2.69 V	0.96 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	0.48 V	2.69 V	2.64 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.24 V	0.01 V	0.50 V	0.03 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V

RCM channel	Regulator	W_TALK		G_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
148	Sensors [LDO,L17]	0.00 V	0.00 V	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 V	3.07 V	0.01 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.00 V	1.00 V	0.01 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	59.67 V	1.00 V	9.14 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	5.89 V	1.05 V	5.94 V
21	VREG_L3_SR_PLL_1P15,MX_TXD AC [LDO,L3,SUB SMPS,S2]	1.05 V	3.23 V	1.05 V	1.41 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.42 V	1.05 V	0.55 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V	0.12 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.05 V	1.30 V	0.06 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V	1.30 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	5.50 V	1.20 V	7.52 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	8.28 V	1.20 V	13.00 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.04 V	1.20 V	0.04 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	2.68 V	1.80 V	2.80 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	1.33 V	1.80 V	1.46 V

RCM channel	Regulator	W_TALK		G_TALK	
		Voltage (V)	I (mA)	Voltage (V)	I (mA)
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.06 V	1.80 V	0.06 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.54 V	1.80 V	0.53 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.62 V	1.79 V	1.00 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.21 V	1.80 V	0.25 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	13.14 V	1.80 V	12.61 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.01 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.79 V	5.58 V	1.80 V	1.24 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V	1.80 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.79 V	0.44 V	1.80 V	0.14 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	1.15 V	1.80 V	1.07 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V	1.80 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	2.19 V	0.02 V	2.19 V	0.03 V
	Battery Measurement	3.698 V	114.76 mA	3.698 V	80.53 mA

Table 4-62 Use Case: GSM talk + 5 dBm, no DTx, PGSM

RCM channel	Regulator	TDS_TALK	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	0.93 V	65.32 V
8	APC[SMPS,S1]	0.94 V	0.18 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.95 V	18.16 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	11.31 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	24.39 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	12.53 V

RCM channel	Regulator	TDS_TALK	
		Voltage (V)	I (mA)
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.03 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	2.67 V
62	GSM PA_2_VPH	3.70 V	0.05 V
74	CDC_VBAT	3.70 V	1.04 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.12 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	0.00 V	0.03 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	0.00 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.00 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	2.38 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	0.21 V	0.03 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	3.07 V	0.01 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	1.00 V	0.01 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	16.86 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.05 V	5.18 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.05 V	1.80 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.05 V	0.42 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.13 V	0.00 V

RCM channel	Regulator	TDS_TALK	
		Voltage (V)	I (mA)
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.06 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	6.31 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	9.71 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.04 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	2.54 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	1.21 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.06 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.54 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.73 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.21 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	6.97 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.02 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.80 V	1.61 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.80 V	0.86 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	1.15 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	2.19 V	0.04 V
	Battery Measurement	3.698 V	71.28 mA

Table 4-63 Use Case: TD-SCDMA talk 0 dBm, B34

RCM channel	Regulator	HSDPA_7.2	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.10 V	165.60 V
8	APC[SMPS,S1]	1.10 V	25.58 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V

RCM channel	Regulator	HSDPA_7.2	
		Voltage (V)	I (mA)
28	VIN_L1 [SMPS,S2]	1.94 V	77.63 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	27.60 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	22.89 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	31.86 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.00 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.02 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	10.08 V
62	GSM PA_2_VPH	3.70 V	0.05 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.04 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.14 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.04 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	0.48 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.70 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	72.08 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.22 V	14.04 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.22 V	2.89 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.22 V	1.19 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V

RCM channel	Regulator	HSDPA_7.2	
		Voltage (V)	I (mA)
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.01 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	7.03 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	10.75 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.75 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	1.53 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.14 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.01 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.67 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.21 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	21.29 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.79 V	5.58 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBXX [LDO,L7,SUB SMPS,S2]	1.79 V	1.86 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	1.16 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	2.04 V	0.00 V
	Battery Measurement	3.699 V	171.13 mA

Table 4-64 Use Case: CDMA talk + 0 dBm

RCM channel	Regulator	DC_HSPA	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.10 V	167.74 V
8	APC[SMPS,S1]	1.10 V	71.27 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.94 V	65.84 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	31.48 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	38.33 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	28.34 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.00 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	9.54 V
62	GSM PA_2_VPH	3.70 V	0.03 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.04 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.16 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.00 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.42 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.65 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	61.13 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.22 V	20.17 V

RCM channel	Regulator	DC_HSPA	
		Voltage (V)	I (mA)
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.22 V	2.86 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.22 V	1.77 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.01 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	12.63 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	19.65 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.04 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.74 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	2.06 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.17 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.67 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.21 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	18.51 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.79 V	5.58 V

RCM channel	Regulator	DC_HSPA	
		Voltage (V)	I (mA)
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.79 V	1.15 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	1.16 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.98 V	0.00 V
	Battery Measurement	3.699 V	190.29 mA

Table 4-65 Use Case: HSDPA downlink 7.2 Mbps + 0 dBm, IMT (Rx/D)

RCM channel	Regulator	TDS-HSDPA	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.09 V	108.92 V
8	APC[SMPS,S1]	1.09 V	29.53 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.95 V	34.29 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	19.46 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	28.49 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	20.25 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.04 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	2.82 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.10 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.90 V	0.10 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.90 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.00 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	2.29 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.66 V	0.04 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V

RCM channel	Regulator	TDS-HSDPA	
		Voltage (V)	I (mA)
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.01 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	31.83 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.22 V	13.13 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.22 V	1.19 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.22 V	1.19 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.06 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	8.96 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	14.52 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.04 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.56 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	1.60 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.11 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V

RCM channel	Regulator	TDS-HSDPA	
		Voltage (V)	I (mA)
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.73 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.21 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	14.66 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.01 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.80 V	1.61 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.80 V	0.86 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	1.16 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.80 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.98 V	0.00 V
	Battery Measurement	3.698 V	117.15 mA

Table 4-66 Use Case: DC HSDPA downlink 42 Mbps + 0 dBm, IMT (No Rx/D)

RCM channel	Regulator	TDD_LTE_CAT3	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.10 V	278.11 V
8	APC[SMPS,S1]	1.10 V	139.16 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.01 V
28	VIN_L1 [SMPS,S2]	1.94 V	71.67 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	57.26 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	49.11 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	29.98 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.00 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.05 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	4.75 V
62	GSM PA_2_VPH	3.70 V	0.02 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.10 V

RCM channel	Regulator	TDD_LTE_CAT3	
		Voltage (V)	I (mA)
19	EXT_BOOST	3.70 V	0.01 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.03 V	0.11 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.03 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.04 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	0.80 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	1.86 V	0.04 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.01 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	66.49 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.23 V	29.48 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.23 V	1.66 V
49	VREG_L3_MSM_EBIO_1P15 [LDO,L3,SUB SMPS,S2]	1.23 V	2.71 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.06 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.29 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	15.47 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	27.26 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V

RCM channel	Regulator	TDD_LTE_CAT3	
		Voltage (V)	I (mA)
22	Rhea I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.56 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	2.63 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.12 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.01 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.71 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.22 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	20.73 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.01 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.79 V	2.41 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.01 V
130	VREG_L7_MSM_HVDDA_BBXX [LDO,L7,SUB SMPS,S2]	1.78 V	3.67 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	1.19 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.80 V	0.01 V
	Battery Measurement	3.699 V	273.80 mA

Table 4-67 Use Case: TDSCDMA HSDPA 2.8 Mbps 0dbm RXD off, Embedded

RCM channel	Regulator	FDD_LTE_CAT3	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.10 V	286.34 V
8	APC[SMPS,S1]	1.10 V	159.40 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.94 V	95.73 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.95 V	54.23 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	69.21 V
40	VIN_L4_L7 [SMPS,S2]	1.94 V	39.93 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.02 V
39	VPH_PWR_MISC	3.70 V	0.00 V
61	GSM PA_1_VPH	3.70 V	7.03 V
62	GSM PA_2_VPH	3.70 V	0.04 V

RCM channel	Regulator	FDD_LTE_CAT3	
		Voltage (V)	I (mA)
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.00 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.11 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.89 V	0.15 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.89 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.01 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.42 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.50 V	0.04 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.01 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	88.85 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.22 V	34.74 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.22 V	2.90 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.22 V	3.15 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.06 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.20 V	20.94 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.20 V	40.56 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V

RCM channel	Regulator	FDD_LTE_CAT3	
		Voltage (V)	I (mA)
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.66 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	3.55 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.14 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.01 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.60 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.22 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	28.84 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.01 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.79 V	5.59 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.78 V	2.37 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	1.18 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.96 V	0.01 V
	Battery Measurement	3.699 V	313.63 mA

Table 4-68 Use Case: LTE TDD Cat 3 20 MHz (60/18 Mbps + 0 dBm, B41)

RCM channel	Regulator	FDD_LTE_CAT4	
		Voltage (V)	I (mA)
3	CX,MSS,GFX,MDSP,CDC[SMPS,S1]	1.14 V	463.28 V
8	APC[SMPS,S1]	1.14 V	248.12 V
11	VREG_S2_CDC_PA_1P95 [SMPS,S2]	1.95 V	0.00 V
12	VREG_S2_CDC_CP_1P95 [SMPS,S2]	1.95 V	0.00 V
28	VIN_L1 [SMPS,S2]	1.94 V	96.33 V
13	VIN_L3_L6_L10 [SMPS,S2]	1.94 V	93.57 V
34	VIN_L2_L5 [SMPS,S2]	1.95 V	87.97 V
40	VIN_L4_L7 [SMPS,S2]	1.93 V	44.98 V
35	Ext_BackLight_Driver_VPH	3.70 V	0.01 V
36	VPH_PWR_HRLED	3.70 V	0.00 V
38	VPH_PWR_Flash_LED_Driver	3.70 V	0.02 V
39	VPH_PWR_MISC	3.70 V	0.00 V

RCM channel	Regulator	FDD_LTE_CAT4	
		Voltage (V)	I (mA)
61	GSM PA_1_VPH	3.70 V	6.88 V
62	GSM PA_2_VPH	3.70 V	0.00 V
74	CDC_VBAT	3.70 V	0.00 V
125	VIB MOTOR_VPH	3.70 V	0.01 V
146	VPH_PWR_WLAN_QCA	3.70 V	0.03 V
19	EXT_BOOST	3.70 V	0.00 V
54	eMMC/NAND VDD_Core_2P9[LDO,L8]	2.45 V	0.22 V
65	MIPI 8MP Rear Camera VDD_AF_2P9[LDO,L8]	2.45 V	0.00 V
57	SD/MMC Card VDD_2P95 [LDO,L11]	0.00 V	0.00 V
30	UIM2 Card VDD_3P0 [LDO,L15]	0.00 V	0.00 V
136	VDDPX_6[LDO,L15]	0.00 V	0.00 V
138	RF Switches VDD_2P7 [LDO,L18]	2.69 V	1.00 V
141	RF360_VDD_2P7 [LDO,L18]	2.69 V	1.42 V
55	VREG_L9_WCN_VDD_3P3 [LDO,L9]	2.34 V	0.00 V
58	VDDPX_2 [LDO,L12]	0.00 V	0.00 V
29	UIM1 Card VDD_3P0 [LDO,L14]	1.79 V	0.08 V
135	VDDPX_5 [LDO,L14]	1.79 V	0.01 V
59	LCD1-MIPI VDD_2P85 [LDO,L17]	0.00 V	0.00 V
60	Cap TS Ctl VCPIN_2P85 [LDO,L17]	0.00 V	0.00 V
66	MIPI 8MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
67	MIPI 5MP Camera VDDA_2P85 [LDO,L17]	0.00 V	0.00 V
148	Sensors [LDO,L17]	0.00 V	0.00 V
23	USB2_HS_VDDA_3P75 [LDO,L13]	0.00 V	0.00 V
43	VREG_L1_WTR1_1P0 [LDO,L1,SUB SMPS,S2]	0.99 V	0.00 V
56	VREG_L1_WTR0_1P0 [LDO,L1,SUB SMPS,S2]	0.98 V	89.40 V
5	VDDMX_1 [LDO,L3,SUB SMPS,S2]	1.25 V	57.46 V
21	VREG_L3_SR_PLL_1P15,MX_TXDAC [LDO,L3,SUB SMPS,S2]	1.25 V	3.07 V
49	VREG_L3_MSM_EBI0_1P15 [LDO,L3,SUB SMPS,S2]	1.25 V	5.25 V
25	Cap TS ctl VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
42	VREG_L6_MSM_DSI_PLL [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
127	MIPI_8MP_CAMERA_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
128	VREG_L6_SENS_1P8[LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
129	LCD1-MIPI_VDDIO_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
134	QFPROM_BLOW_VDD [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
147	MIPI_5MP_CAMERA_VDD_1P8 [LDO,L6,SUB SMPS,S2]	0.10 V	0.00 V
41	Rhea_Analog_VDD_1P3 (WLAN) [LDO,L10,SUB SMPS,S2]	1.30 V	0.00 V
124	VDDA_WLAN [LDO,L10,SUB SMPS,S2]	1.29 V	0.00 V
44	VDDPX_1[LDO,L2,SUB SMPS,S2]	1.19 V	31.46 V
45	VREG_L2_LPDDR2_VDDQ_1P2 [LDO,L2,SUB SMPS,S2]	1.19 V	47.64 V
46	VDDA_1P2_MIPI_DSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.01 V

RCM channel	Regulator	FDD_LTE_CAT4	
		Voltage (V)	I (mA)
47	VDDA_MIPI_CSI [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
140	MIPI 8MP Camera_VDD_1P2 (Dig Core) [LDO,L2,SUB SMPS,S2]	1.20 V	0.00 V
143	USB2_HS_DVDD [LDO,L2,SUB SMPS,S2]	1.20 V	0.05 V
22	Rhea I/O VDD_1p8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
37	VREG_L5_MISC_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
51	VDDPX_3 [LDO,L5,SUB SMPS,S2]	1.80 V	0.67 V
52	LPDDR2-CH0_VDD1_1P8 [LDO,L5,SUB SMPS,S2]	1.79 V	4.11 V
53	eMMC/NAND VDDQ_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.23 V
64	VDDPX_7 [LDO,L5,SUB SMPS,S2]	1.80 V	0.03 V
68	VREG_L5_CDC_VDDA_VDD [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
131	VREG_L5_CH0_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.60 V
132	VREG_L5_CH1_RF360_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.22 V
142	NFC I/O VDD_1P8 [LDO,L5,SUB SMPS,S2]	1.80 V	0.00 V
137	VREG_L5_MSM_PX4 [LDO,L5,SUB SMPS,S2]	1.80 V	0.02 V
48	VREG_L4_WTR0_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.79 V	32.23 V
50	VREG_L4_WTR1_VDD_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
126	VREG_L4_GPS_LNA_1P8 [LDO,L4,SUB SMPS,S2]	1.80 V	0.00 V
26	VDDA_TXDAC0 [LDO,L7,SUB SMPS,S2]	1.78 V	5.59 V
27	USB2_HS_VDDA_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
130	VREG_L7_MSM_HVDDA_BBRX [LDO,L7,SUB SMPS,S2]	1.78 V	3.71 V
133	VREG_L7_MSM_SR2_PLL_1P8 [LDO,L7,SUB SMPS,S2]	1.78 V	1.45 V
139	Rhea Clock_VDD_XO_1P8 [LDO,L7,SUB SMPS,S2]	1.79 V	0.00 V
145	WCD_CDC_BOOST_VREG_5V	1.92 V	0.00 V
	Battery Measurement	3.698 V	463.11 mA

4.4 A7 Quad-core Dhrystone power

Figure 4-1 shows the Single-core Dhrystone power.

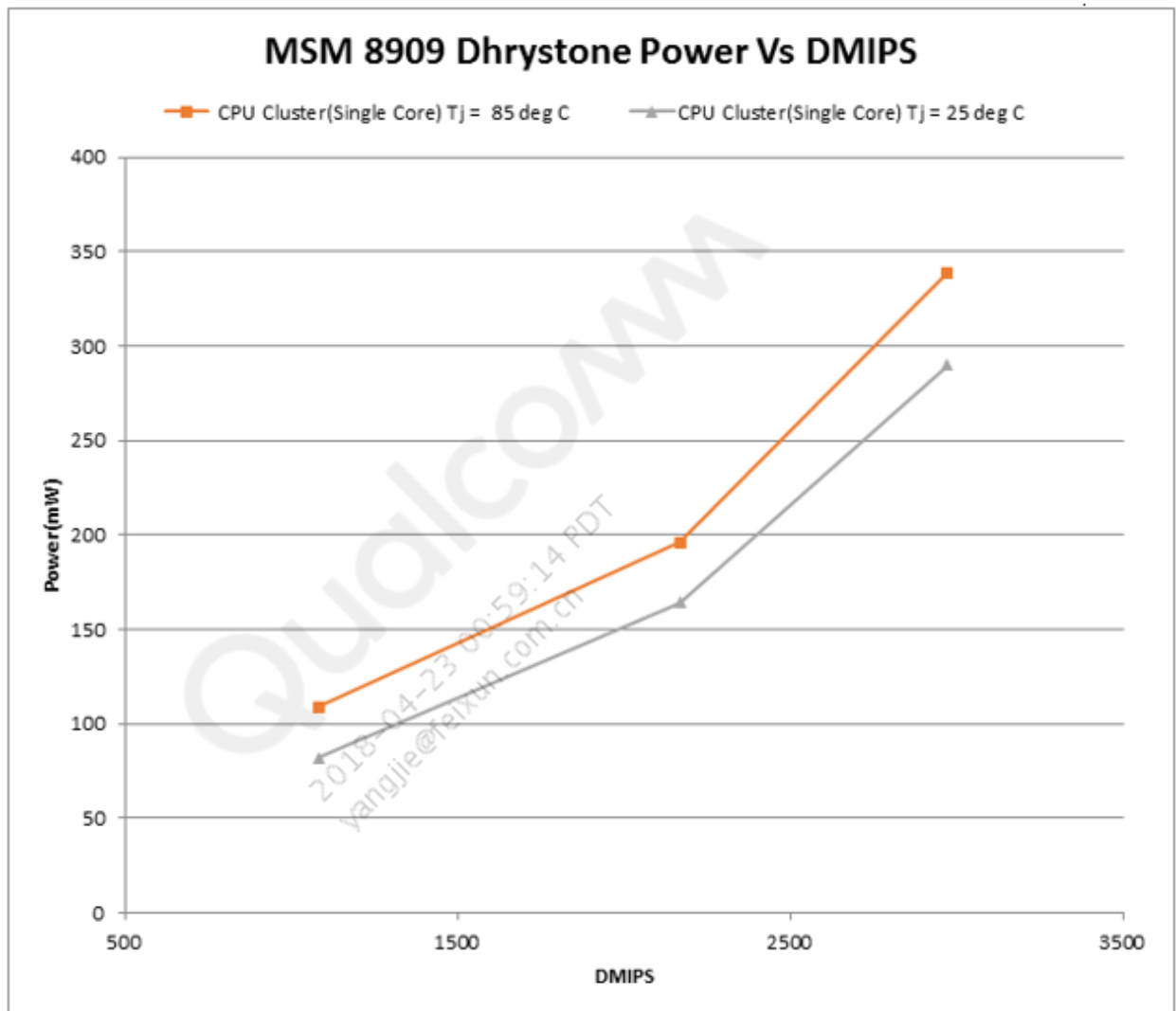


Figure 4-1 Single-core Dhrystone power

A References

A.1 Related documents

Title	Number
Qualcomm Technologies, Inc.	
<i>30 fps at HD 1080p H.264 20 Mbps AAC+ 96 kbps 44 kHz Stereo (Qtc88) Clip for Multimedia Power Measurement</i>	MH80-VR010-8
<i>30 fps at HD 720p H.264 10 Mbps AAC+ 96 kbps 44.1 kHz Stereo (Qtc77) Clip for Multimedia Power Measurement</i>	MH80-VR010-7
<i>Configuration of Input Pins During Device Sleep</i>	80-VN499-7
<i>EXE, iBench V.4.6.01 for Linux Android-Enabled Devices</i>	72-N7696-1
<i>EXE, PowerLift 3D Linux Android Graphics Tool Release 5.2.00</i>	HK11-NC876-1
<i>MP3 at 44.1 kHz 128 kbps Stereo Clip for Power Measurements</i>	MH80-VR010-5
<i>MSM8909/MSM8209/MSM8208 + PM8909 Preliminary Reference Schematic</i>	80-NP408-41
<i>MSM8909/MSM8209/MSM8208 + PM8916-1 Preliminary Reference Schematics</i>	80-NP408-42
<i>MSM8909/MSM8209/MSM8208 Device Specification (Advance Information)</i>	80-NP408-1
<i>Video: 720p 1280x720 30 fps H.264 HP 2.13 Mbps, AAC+ Stereo 44.1 kHz 128 Kbps (YouTube720p)</i>	MH80-VR010-11