GPIB Command Syntax

for

E1966A 1xEV-DO Terminal Test Application Revision A.07

E1976A 1xEV-DO Rel 0 FTM Test Application Revision A.01

E6706A 1xEV-DO Lab Application Revision A.04

E6706T Special High Data Rate 1xEV-DO Lab Application T.01

Print Date: December 2006

1000-1931

www.agilent.com/find/E1966A

www.agilent.com/find/E1976A

www.agilent.com/find/E6706A

www.agilent.com/find/E6706T

Agilent Technologies

NOTE: *This guide is applicable to the E6706T, however there are a few exceptions which can be found in the Online User's Guide available at*
http://wireless.agilent.com/rfcomms/refdocs/1xevdo/default.php

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Contents

Diagram Conventions 6
ABORt 9
AFGenerator 10
CALibration 11
CALCulate:SMONitor 12
CALL:APARameter 13
CALL:APPLication 14
CALL:AWGNoise 16
CALL:BAND 16
CALL:CCHannel 17
CALL:CCODe 17
CALL:CHANnel 17
CALL:CLPControl 18
CALL:CONNected 18
CALL:CONTrol 18
CALL:COUNt 19
CALL:COUNt:DTMonitor 23
CALL:CSTime 24
CALL:DATA 25
CALL:DCONnected 27
CALL:DORMant 27
CALL:FUNCtion:DATA 27
CALL:HANDoff 27
CALL:IDLE:DATA? 28
CALL:MACCHannel 28
CALL:MCCode 28
CALL:MS 29
CALL:OPERating:MODE 32
CALL:PARameter:SECTor 32
CALL:PLOGging 32
CALL:PNOFfset 33
CALL:POWer 33
CALL:PROTocol 33
CALL:RFGenerator 34
CALL:SCLose 34
CALL:SETup 34
CALL:SOPen? 35
CALL:STATus 36
CALL:TEST856 38
CALL:TOTal:POWer 39
CALL:TRIGger 39
CALL:WAVeform 39

Contents

DISPlay 40
FETCh:AFANalyzer 41
FETCh:CAPPower 43
FETCh:CPERror 43
FETCh:CFDTune 43
FETCh:CPOWer 44
FETCh:CTDPower 44
FETCh:CTXSpurious 44
FETCh:DAPower 45
FETCh:DOWQuality 45
FETCh:GAPPower 49
FETCh:SAUDio 50
FETCh:SMONitor 52
FETCh:TROPower 52
INITiate 53
READ 55
RFANalyzer 57
RFGenerator:OUTPut 58
SETup:CONTinuous 59
SETup:AFANalyzer 59
SETup:CAPPower 61
SETup:CFDTune 62
SETup:CPERror 64
SETup:CPOWer 65
SETup:CTDPower 66
SETup:CTXSpurious 67
SETup:DAPower 68
SETup:DOWQuality 69
SETup:GAPPower 70
SETup:SAUDio 71
SETup:SMONitor 73
SETup:TROPower 75
STATus:OPERation 75
STATus:PRESet 76
STATus:QUEStionable 76
Status Byte Register 77
Standard Event Status Register 77
SYSTem:APPLication 78
SYSTem:AUDio 79
SYSTem:BEEPer 79
SYSTem:COMMunicate 79
SYSTem:CONFigure 80

Contents

SYSTem:CORRection 80
SYSTem:CURRent:TA 80
SYSTem:DATE 81
SYSTem:ERRor? 81
SYSTem:FATal 81
SYSTem:INSTrument 81
SYSTem:MEASurement:RESet 81
SYSTem:PRESet 81
SYSTem:REGister 82
SYSTem:ROSCillator 82
SYSTem:SYNChronized 82
SYSTem:STATus 82
SYSTem:TIME 82
SYSTem:TZONe 83
SYSTem:UTC 83
IEEE 488.2 Common Commands 83

GPIB Syntax for E1966A, E1976A and E6706A/T

Diagram Conventions

Description

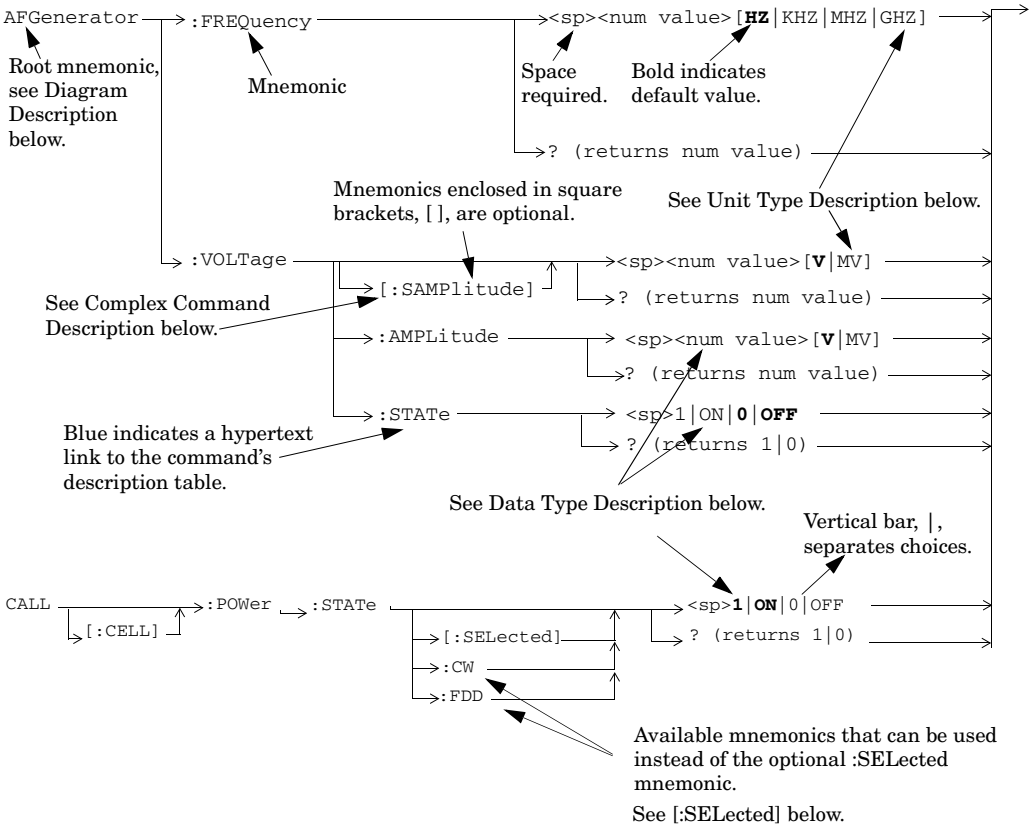


Diagram Description

Mnemonics are connected by lines. Each line can be followed in only one direction, as indicated by the arrow at the end of the line. Any combination of mnemonics that can be generated by starting at the root mnemonic and following the line in the direction of the arrow is syntactically correct.

The uppercase letters of a mnemonic represent the short form of the mnemonic, whereas the long form of a mnemonic is the short form followed by the lowercase letters. The test set accepts either the long form or the short form of the mnemonic. The mnemonics that are inside square brackets are optional. That is, a command operates the same whether or not the mnemonic in square brackets is used in the command.

The drawings show the proper use of spaces. Where spaces are required they are indicated by <sp>, otherwise no spaces are allowed between mnemonics.

Complex Command Description

Complex commands are valuable because they set the state of the parameter and a value for that parameter. For example, the command in the above figure that contains the mnemonic [:SAMPlitude] is a complex command because sets the state to ON as well as the amplitude. You can use parameters such as amplitude, frequency, gain, number, time, and value as a complex command. Refer to the specific command for the parameter that applies.

Data Type Description

num value	Integer, float or scientific values.
	For example,
	`CALL:POWer -55.5`
	`CALL:POWer -5.55E+001`
	`CALL:CHANnel 525`

string	Characters. The string will often need to be enclosed in single or double quotes, depending upon your programming environment. For example, `CALL:UPLink:PRAChannel:ASUBchannels '111111111111'` The string returned by the test set is enclosed by double quotes.

choice1 | choice2 | choice3	Specific character choices.
	For example,
	`CALL:OPERating:MODE D2KTest`
	`SYSTem:COMMunicate:GPIB:DEBug ON`

Unit Type Description

Some commands have optional units of measurement. These are displayed in square brackets. If no units are specified in the command then the default unit in bold font is used. The test set accepts the specified unit either with or without a space inserted between the <num value> and the unit (for example, both `10S` and `10 S` are valid). The following table summarizes the units available.

Description	Optional Units	Example

Amplitude (linear)	**V** | MV	To set the spectrum monitor's timeout interval to 20 seconds, use any of the following formats:
		`SETup:SMONitor:TIMeout:TIME 20`
		`SETup:SMONitor:TIMeout:TIME 20S`
		`SETup:SMONitor:TIMeout:TIME 20 S`

Power (logarithmic)	**DBM** | DBW	
Level (relative)	**DB**	
Frequency	**HZ** | KHZ | MHZ | GHZ	
Time	**S** | MS | US | NS	
Percentage	**PCT**	

[:SELected] Mnemonic

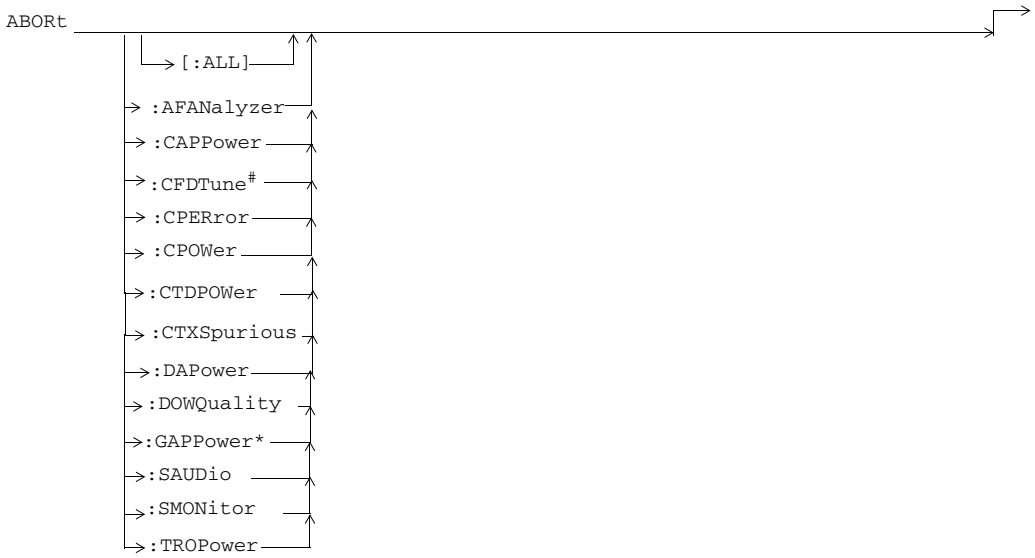
The [:SELected] Mnemonic is an optional mnemonic that implies a current selection on the test set. Often there are other mnemonics that can be used in place of the [:SELected] mnemonic to configure a setting that is not the currently selected configuration on the test set. The mnemonics that can replace the [:SELected] mnemonic are listed in parentheses separated by vertical bars (|) in the description table title. An example of a command that contains the [:SELected] mnemonic is shown in the following table.

CALL[:CELL]:POWer:AMPLitude[:SELected]

CALL[:CELL]:POWer:AMPLitude:(CW|FDD) ← Available mnemonics that can be use instead of the optional [:SELected] mnemonic.

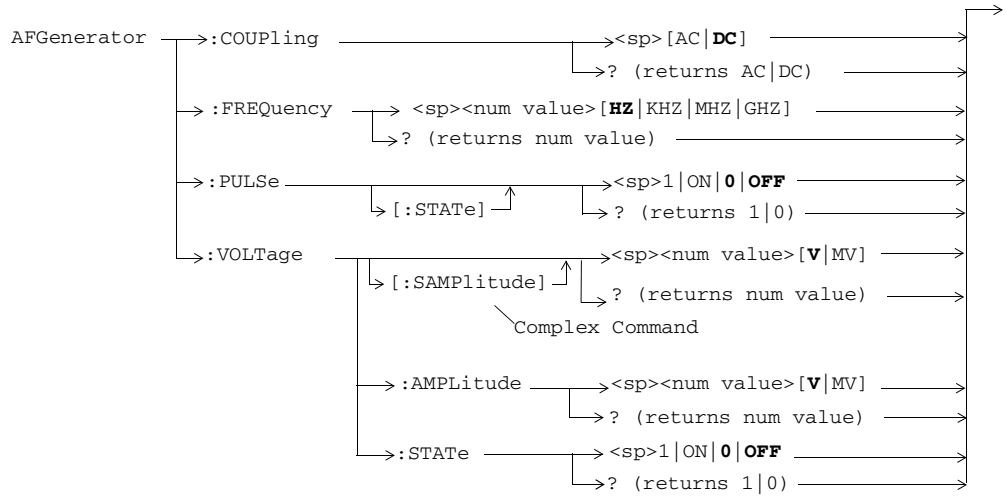
Function	Sets/queries the desired cell power level. (See "Cell Pow information about desired versus current power levels.) The optional [:SELected] keyword in this command spec queried applies to the current system type (see "CALL[:(settings for the CW operating mode are independent of operating modes.
Setting	Range: (This is the range of settings accepted, see "Cell Ranges" for the actual hardware range of the source • FDD: -165 dBm/3.84MHz to +37 dBm/3.84MHz • CW: -177 dBm to +40 dBm

ABORt

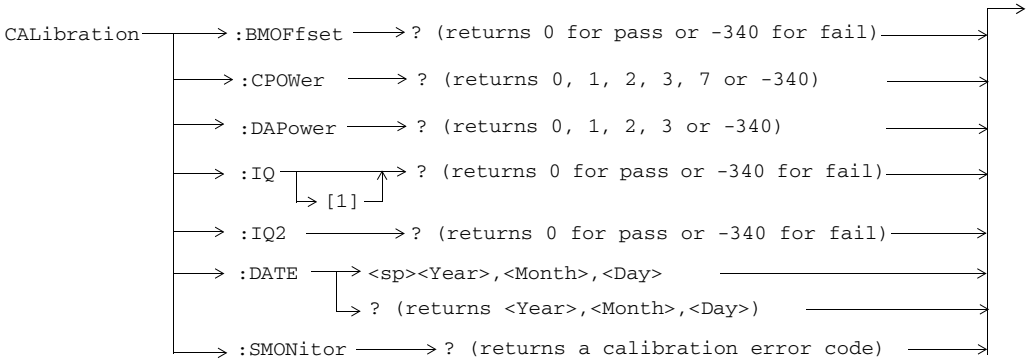


 # Only applicable to the lab application or feature-licensed test application.
** Only applicable to the lab application.*

AFGenerator

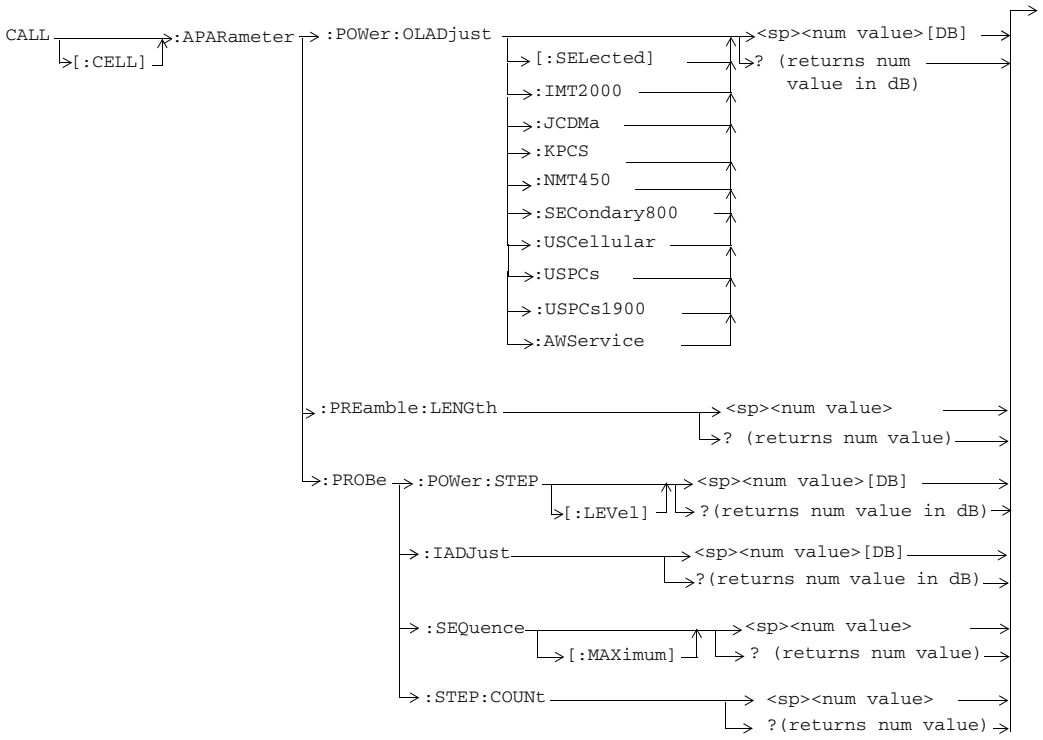


CALibration

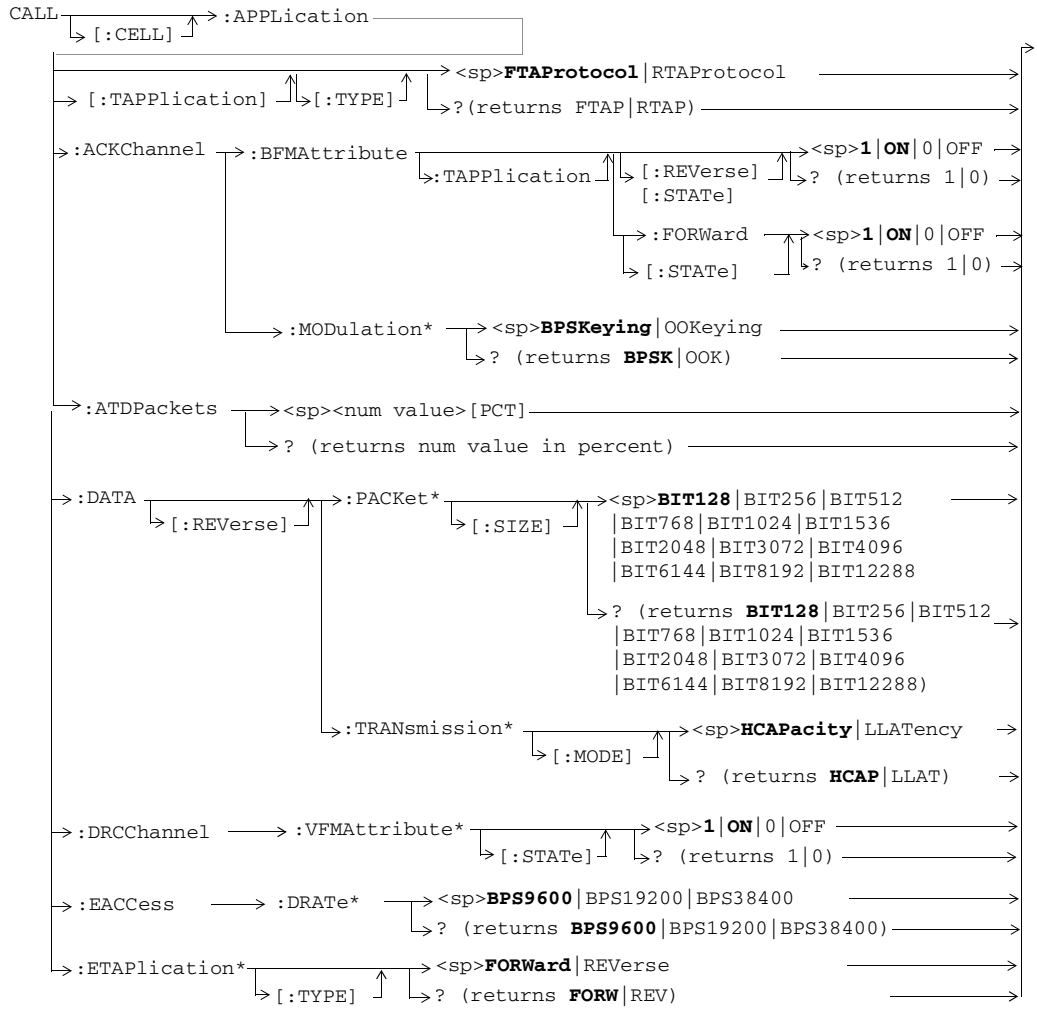


CALCulate:SMONitor

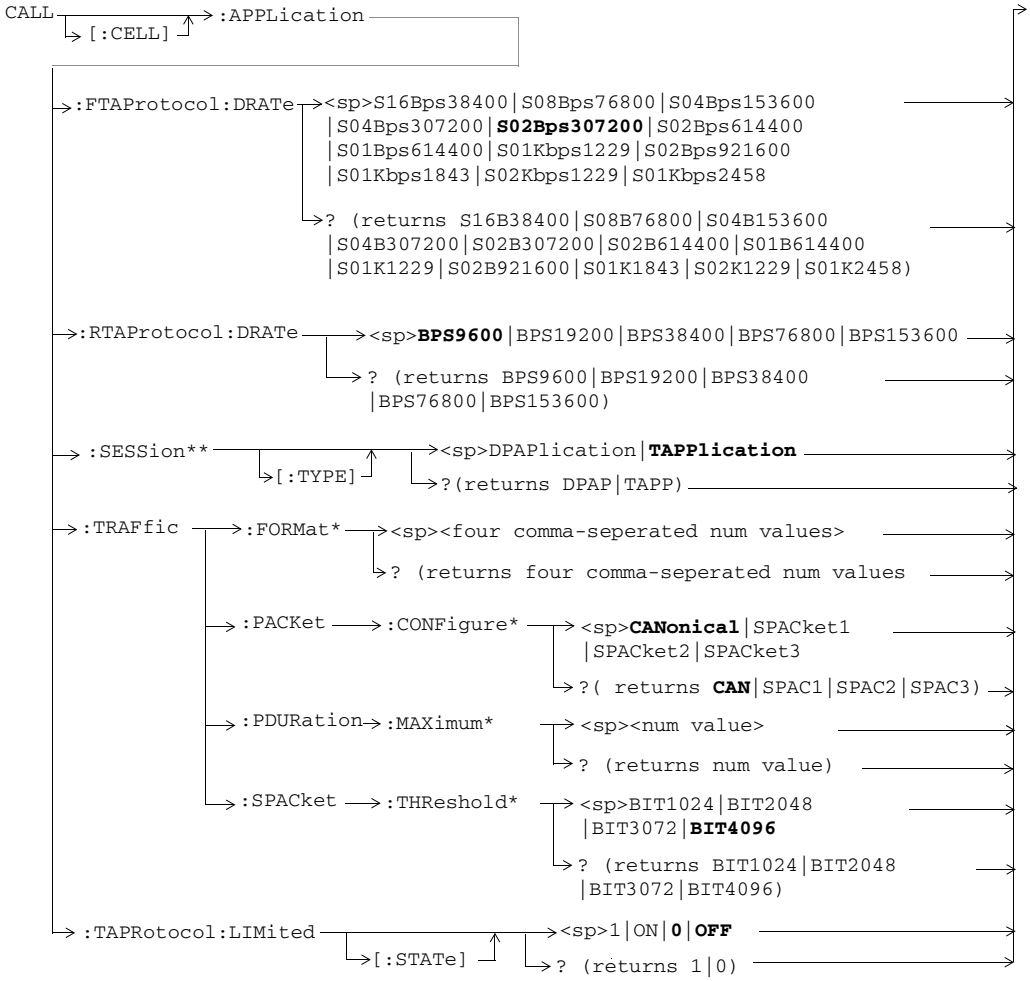
CALL:APARameter



CALL:APPLication



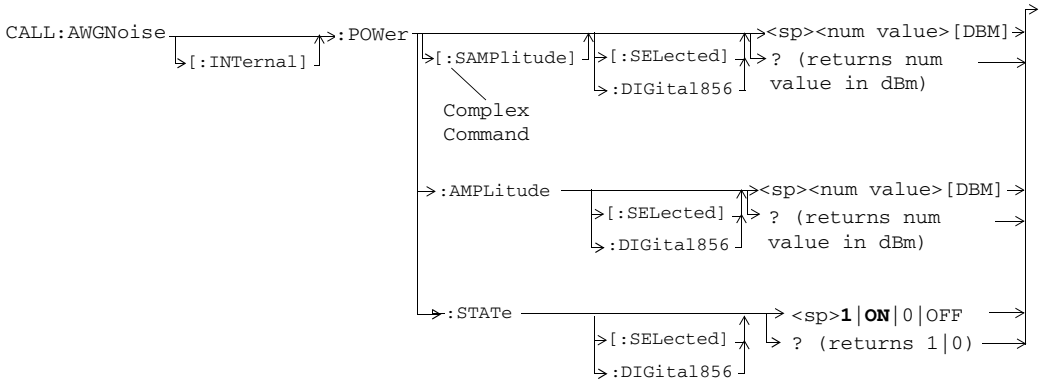
** Only applicable to the lab application and feature-licensed test application.*



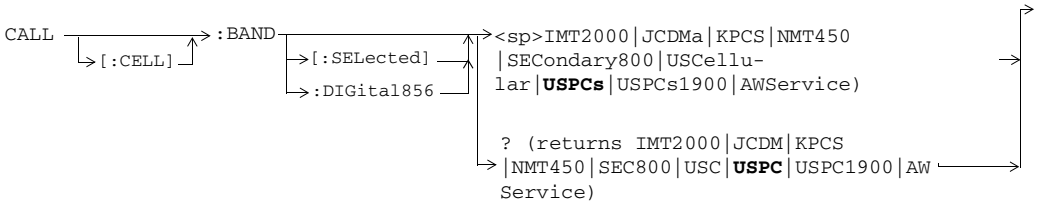
** Only applicable to the lab application and feature-licensed test application.*

** Only applicable to the lab application.

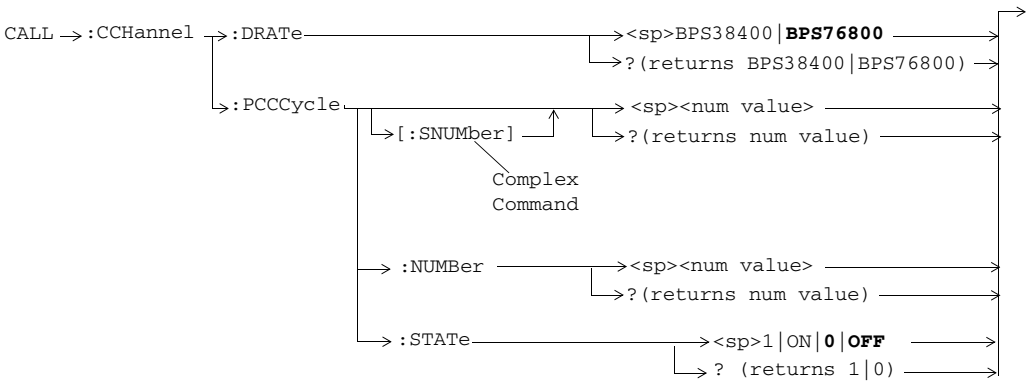
CALL:AWGNoise



CALL:BAND

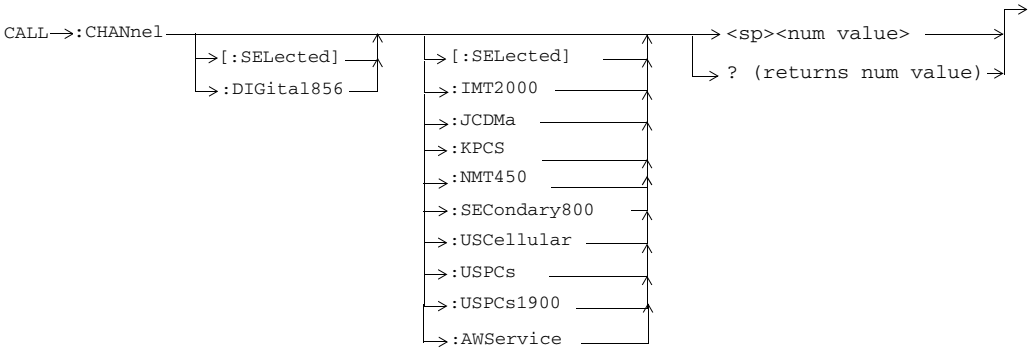


CALL:CCHannel

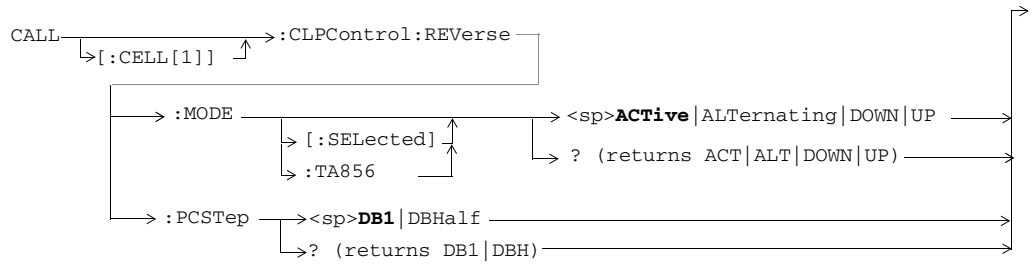


CALL:CCODe

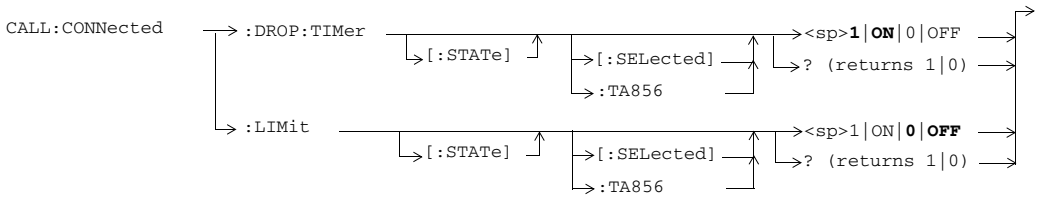
CALL:CHANnel



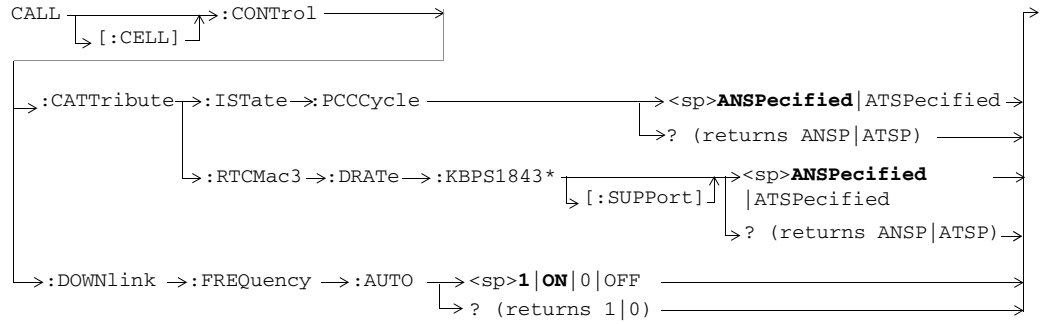
CALL:CLPControl



CALL:CONNected

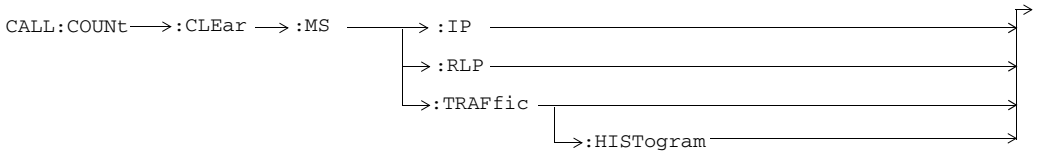


CALL:CONTrol

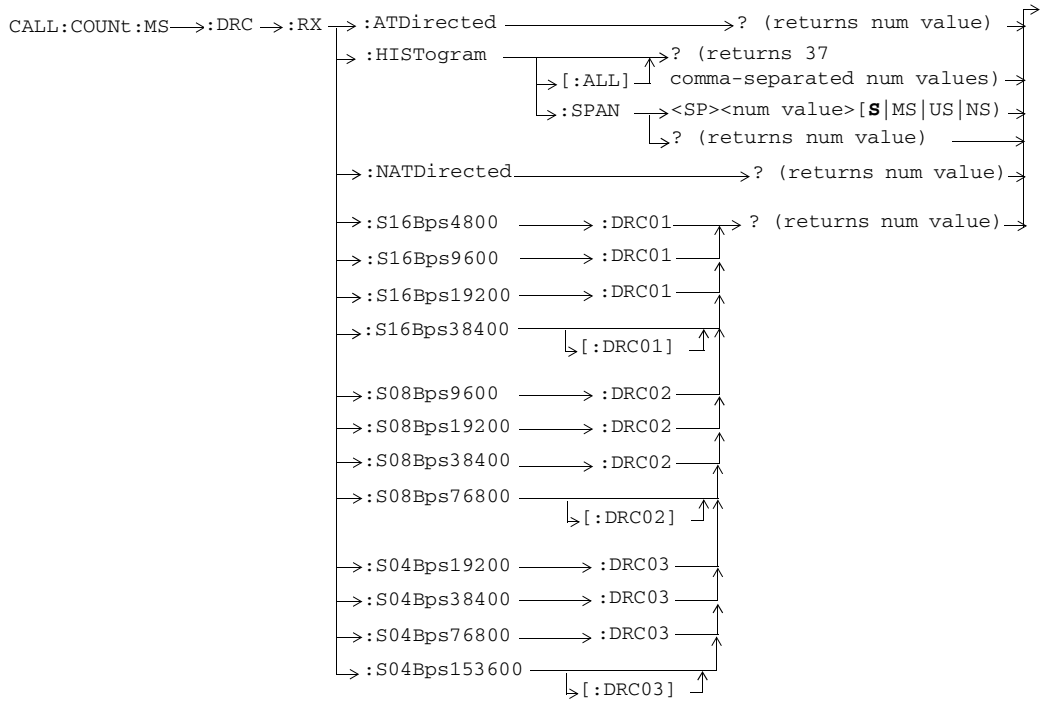


** Only applicable to the lab application and feature-licensed test application.*

CALL:COUNt



All of the commands shown in this diagram are only applicable to the lab application.



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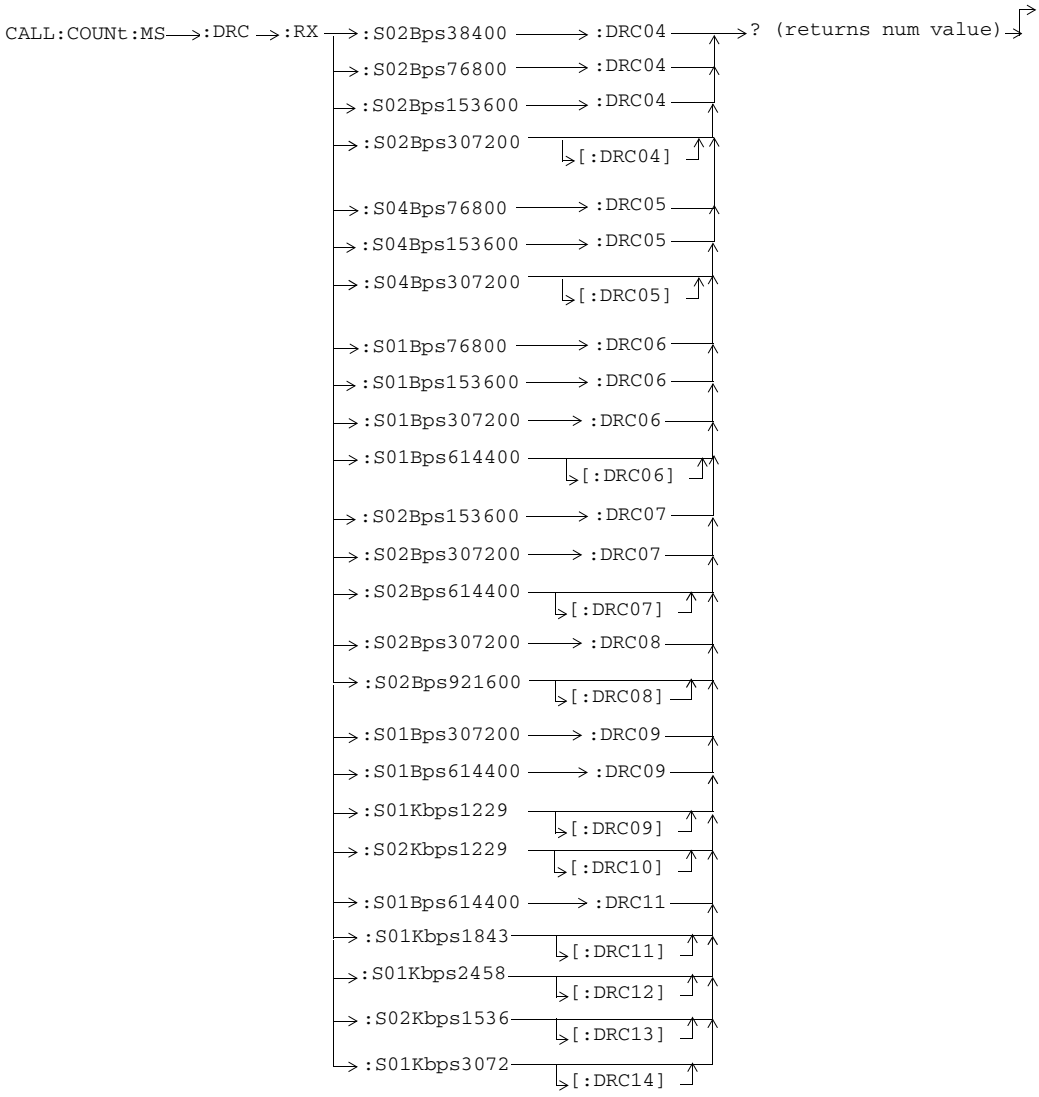
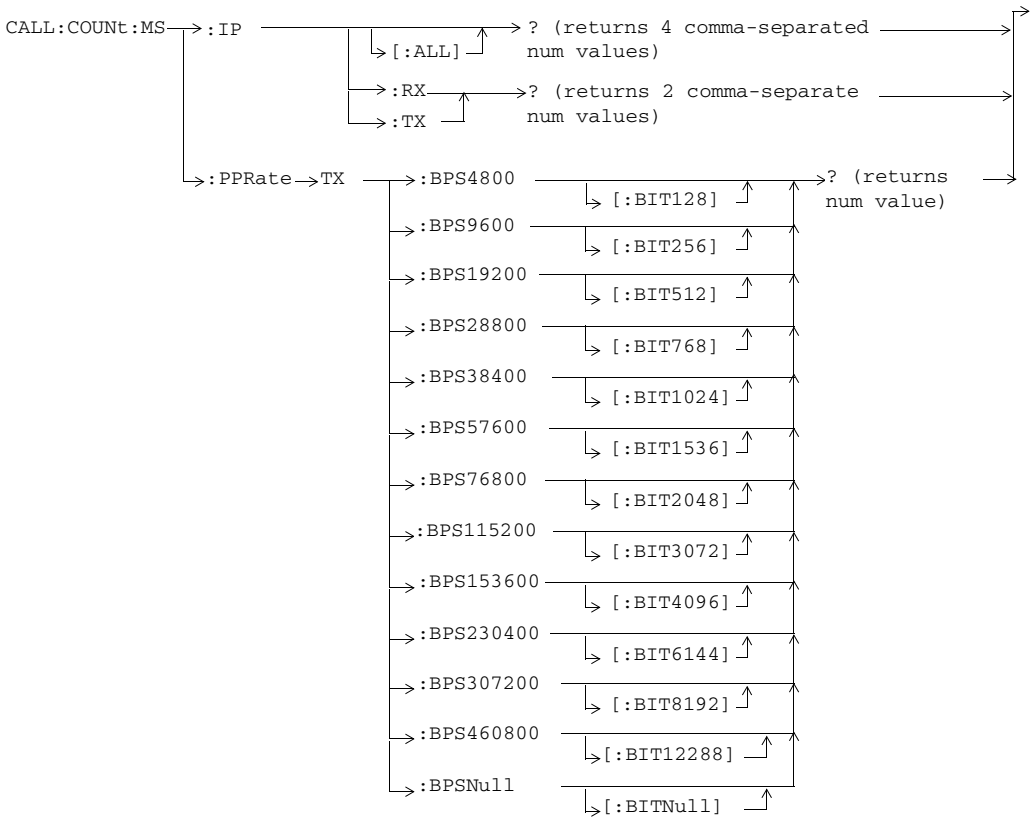
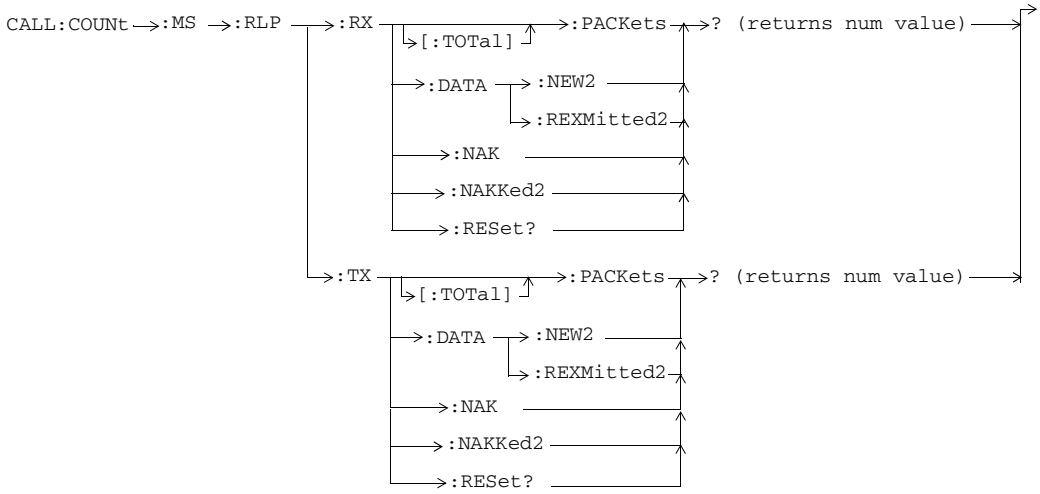


All of the commands shown in this diagram are only applicable to the lab application.

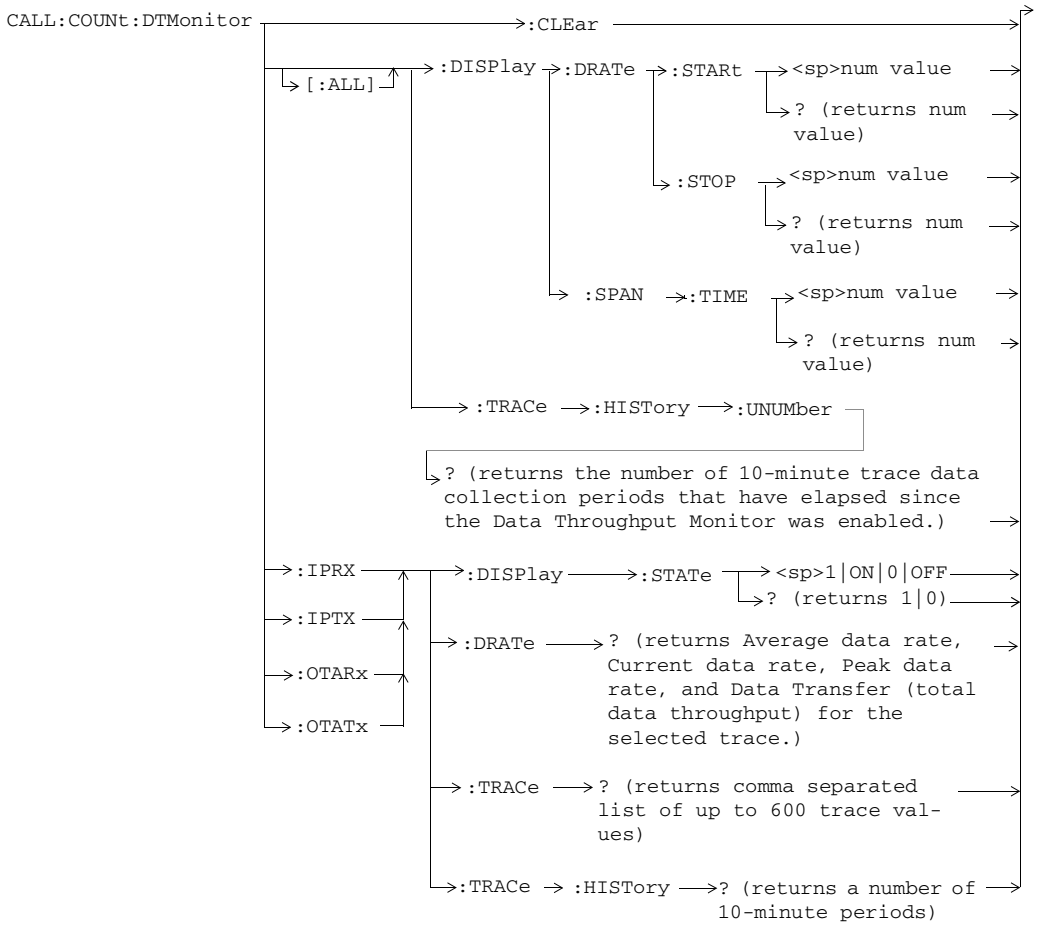


All of the commands shown in this diagram are only applicable to the lab application.



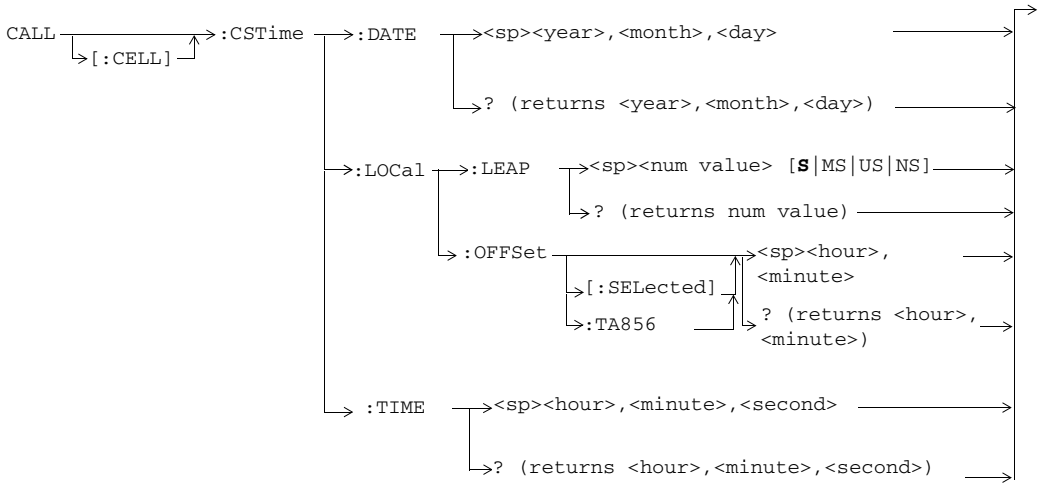
All of the commands shown in this diagram are only applicable to the lab application.

CALL:COUNt:DTMonitor

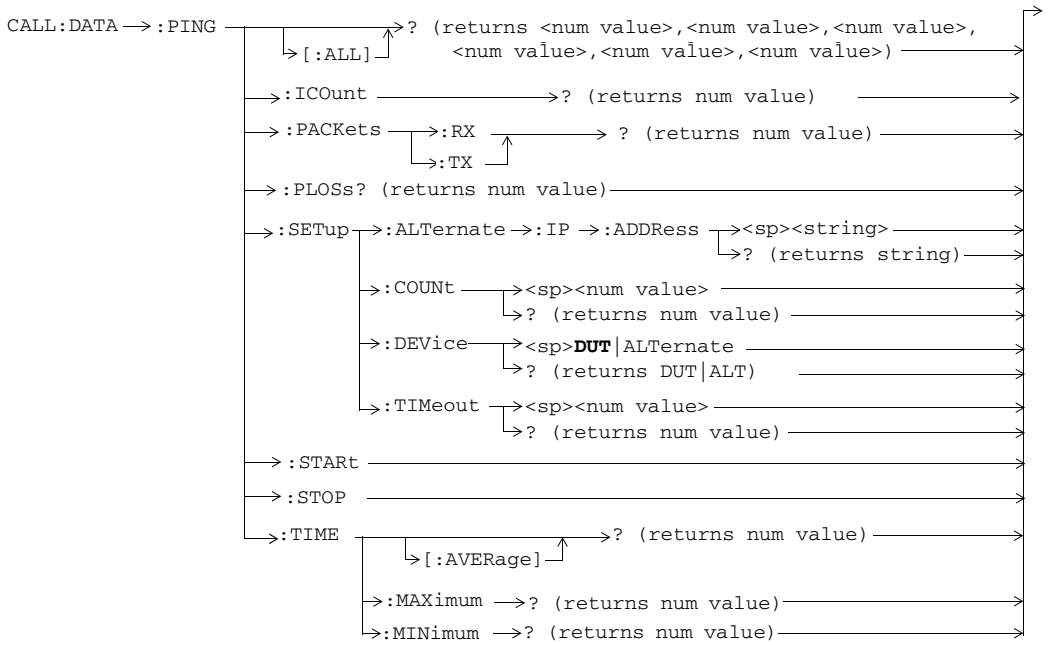


All commands shown in this diagram are only applicable to the lab application.

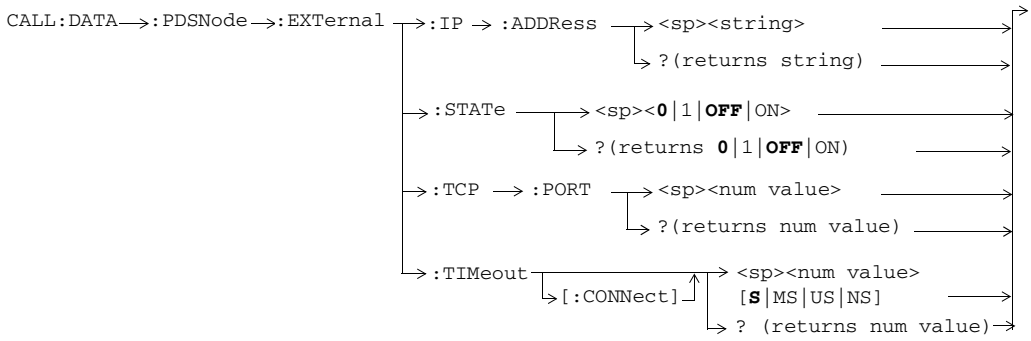
CALL:CSTime


CALL
[:CELL]
:CSTime
:DATE
<sp><year>,<month>,<day>
? (returns <year>,<month>,<day>)
:LOCal
:LEAP
<sp><num value> [S|MS|US|NS]
? (returns num value)
:OFFSet
[:SELected]
:TA856
<sp><hour>,
<minute>
? (returns <hour>,
<minute>)
:TIME
<sp><hour>,<minute>,<second>
? (returns <hour>,<minute>,<second>)

CALL:DATA

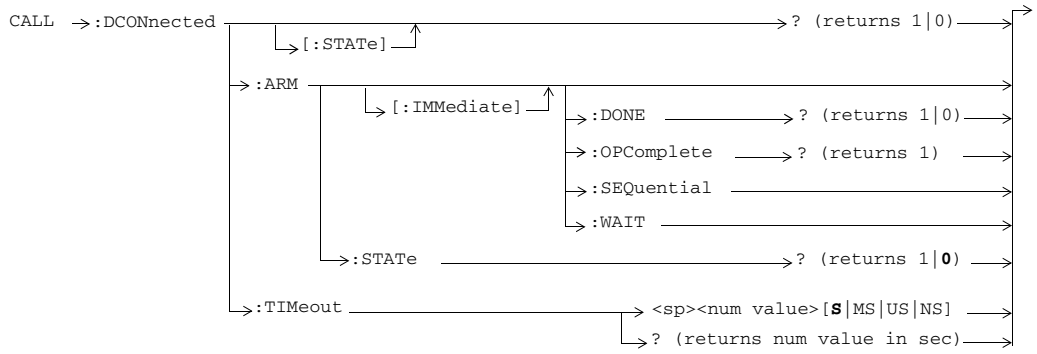


All commands shown in this diagram are only applicable to the lab application.

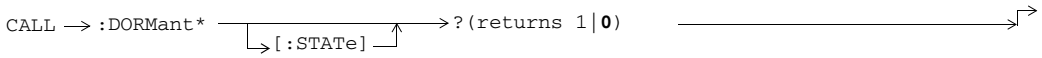


All commands shown in this diagram are only applicable to the lab application.

CALL:DCONnected

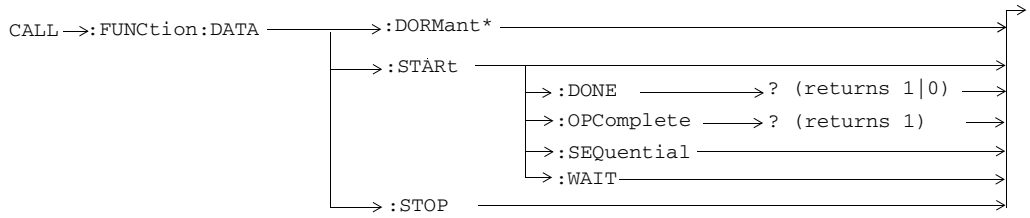


CALL:DORMant



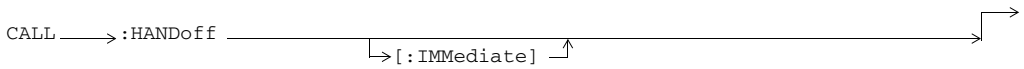
* This command is only applicable to the lab application.

CALL:FUNCtion:DATA

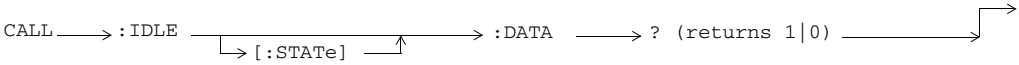


* This command is only applicable to the lab application.

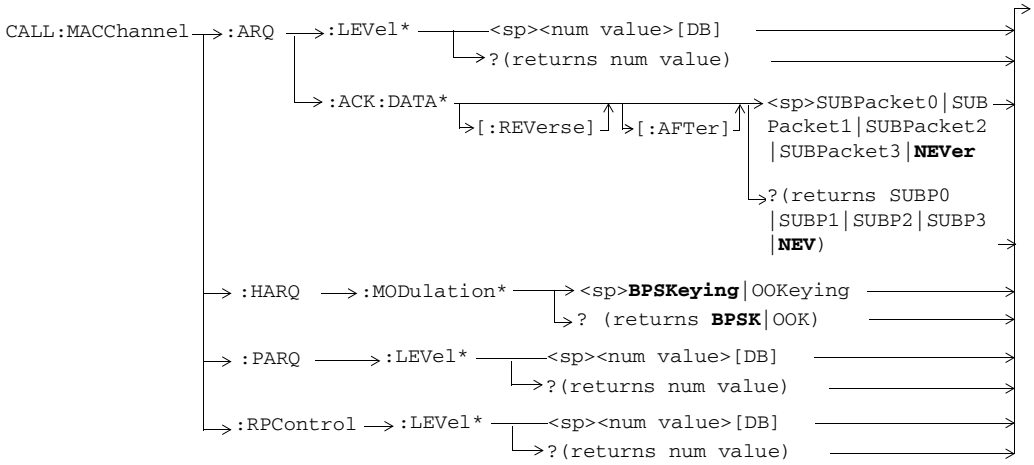
CALL:HANDoff



CALL:IDLE:DATA?

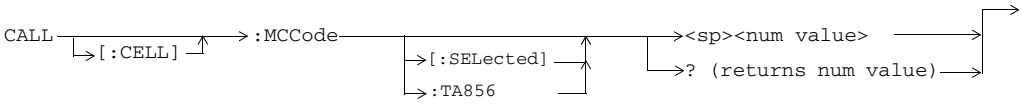


CALL:MACCHannel

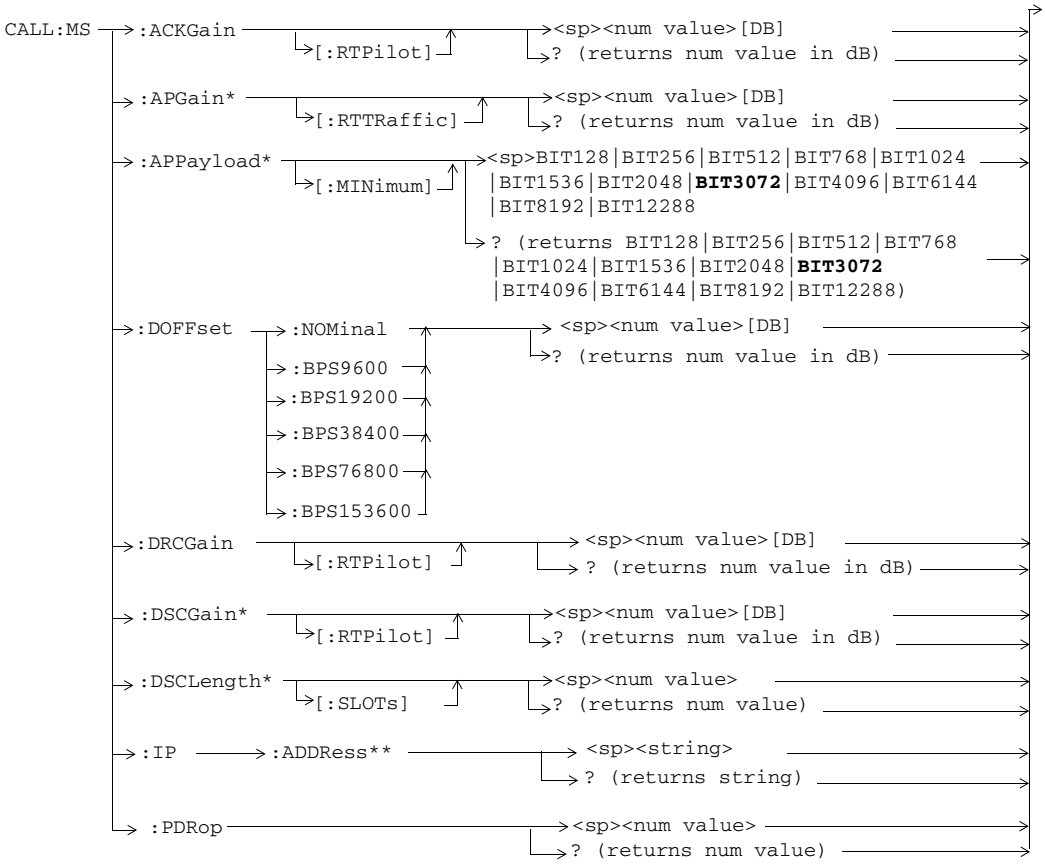


** Only applicable to the lab application and feature-licensed test application.*

CALL:MCCode

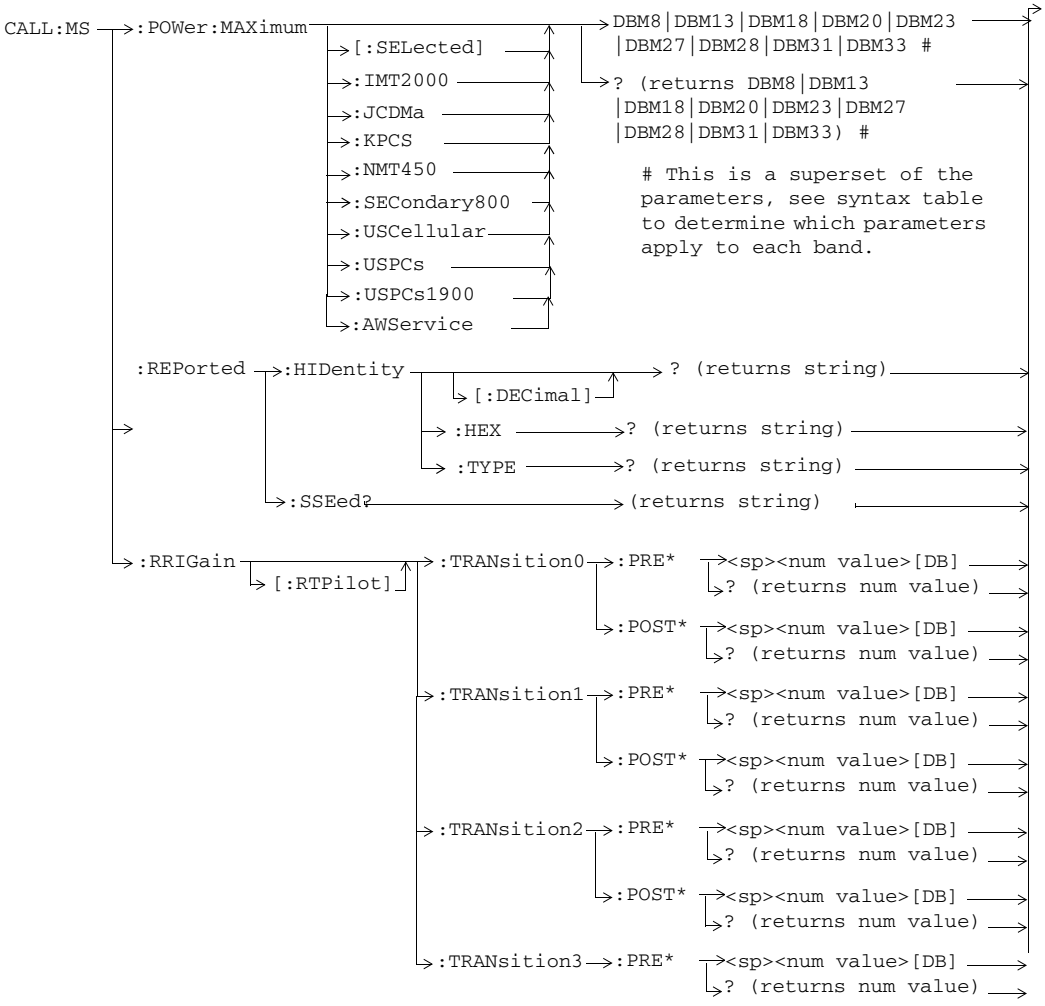


CALL:MS

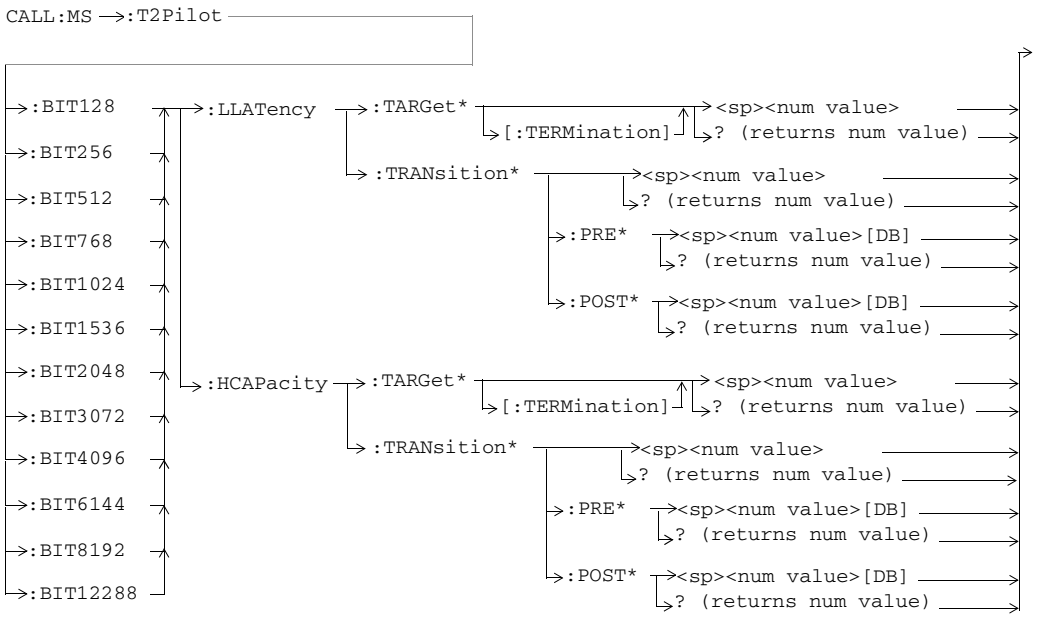


** Only applicable to the lab application and feature-licensed test application.*

** Only applicable to the lab application.

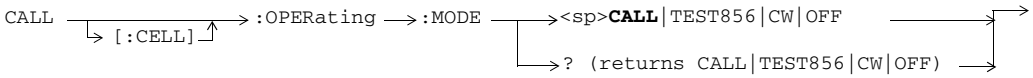


** Only applicable to the lab application and feature-licensed test application.*

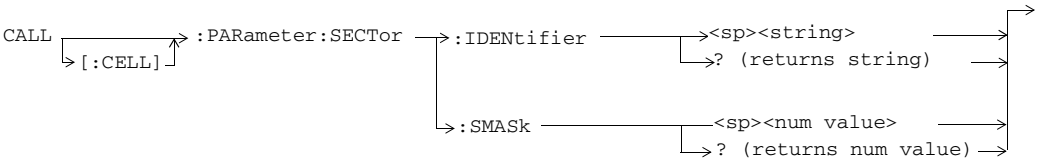


** Only applicable to the lab application and feature-licensed test application.*

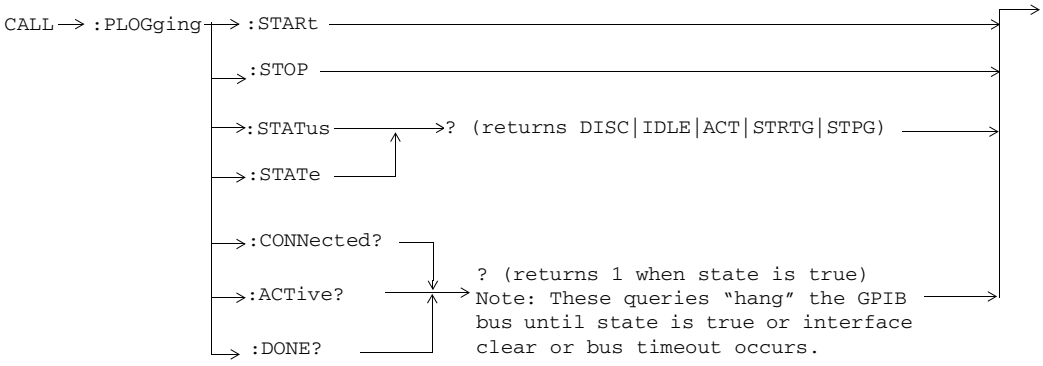
CALL:OPERating:MODE



CALL:PARameter:SECTor

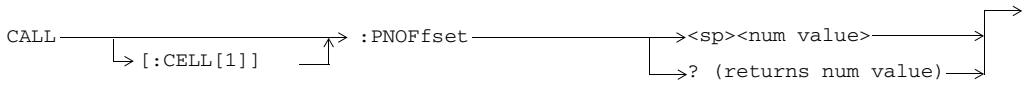


CALL:PLOGging

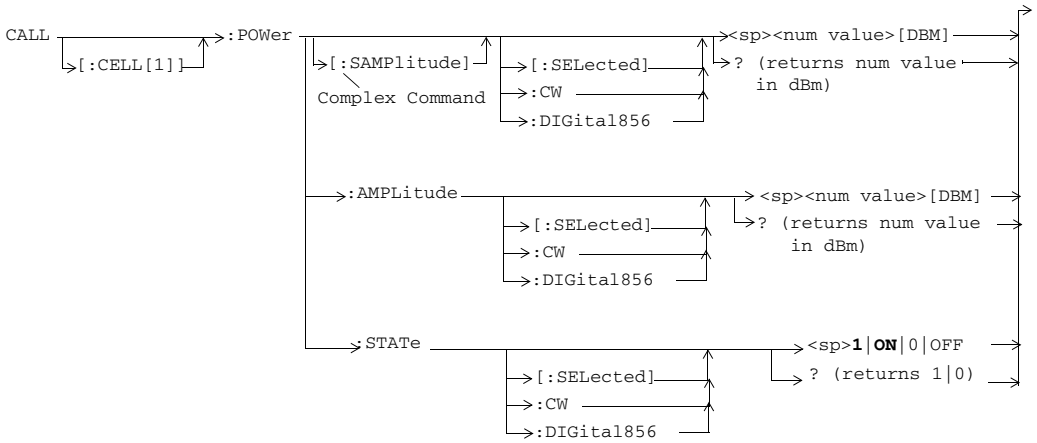


All commands shown in this diagram are only applicable to the lab application.

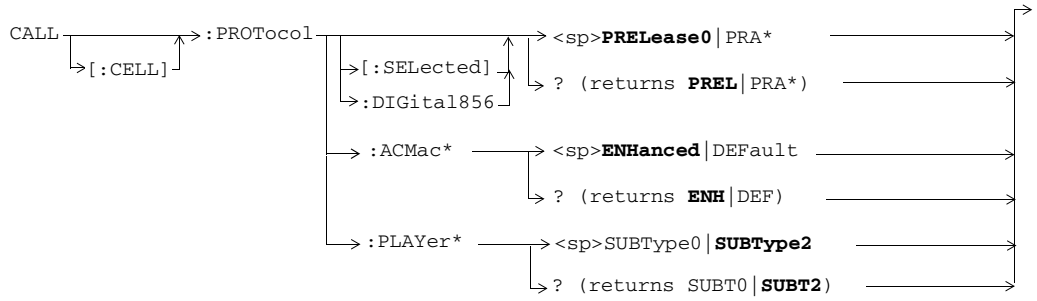
CALL:PNOFfset



CALL:POWer

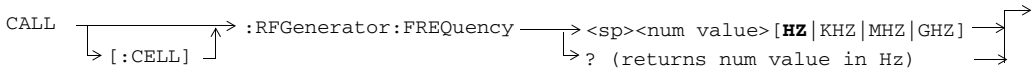


CALL:PROTocol

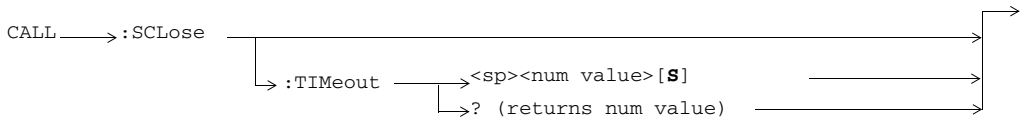


** Only applicable to the lab application and feature-licensed test application.*

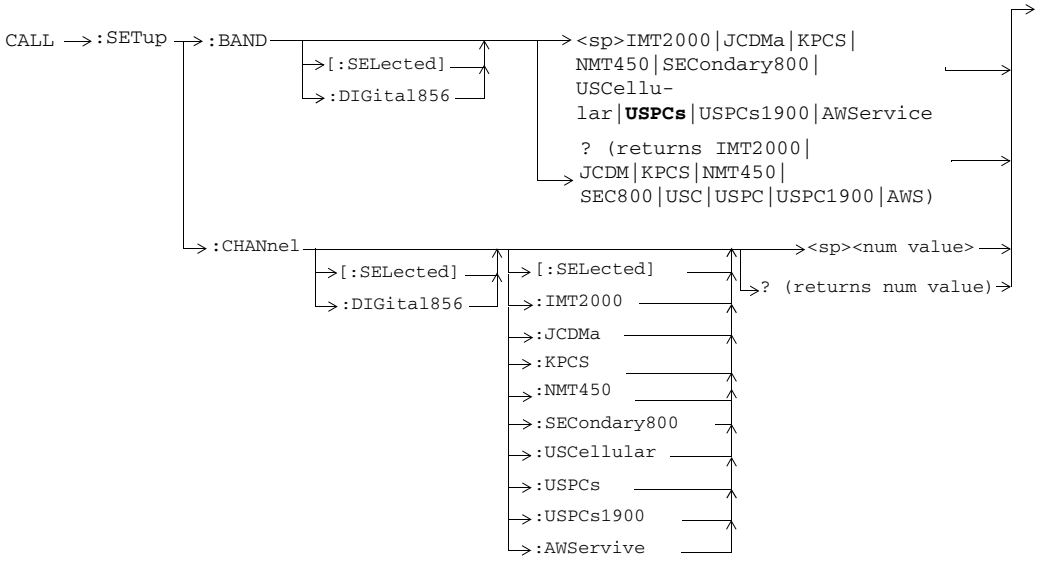
CALL:RFGenerator



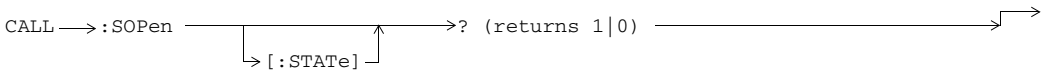
CALL:SCLose



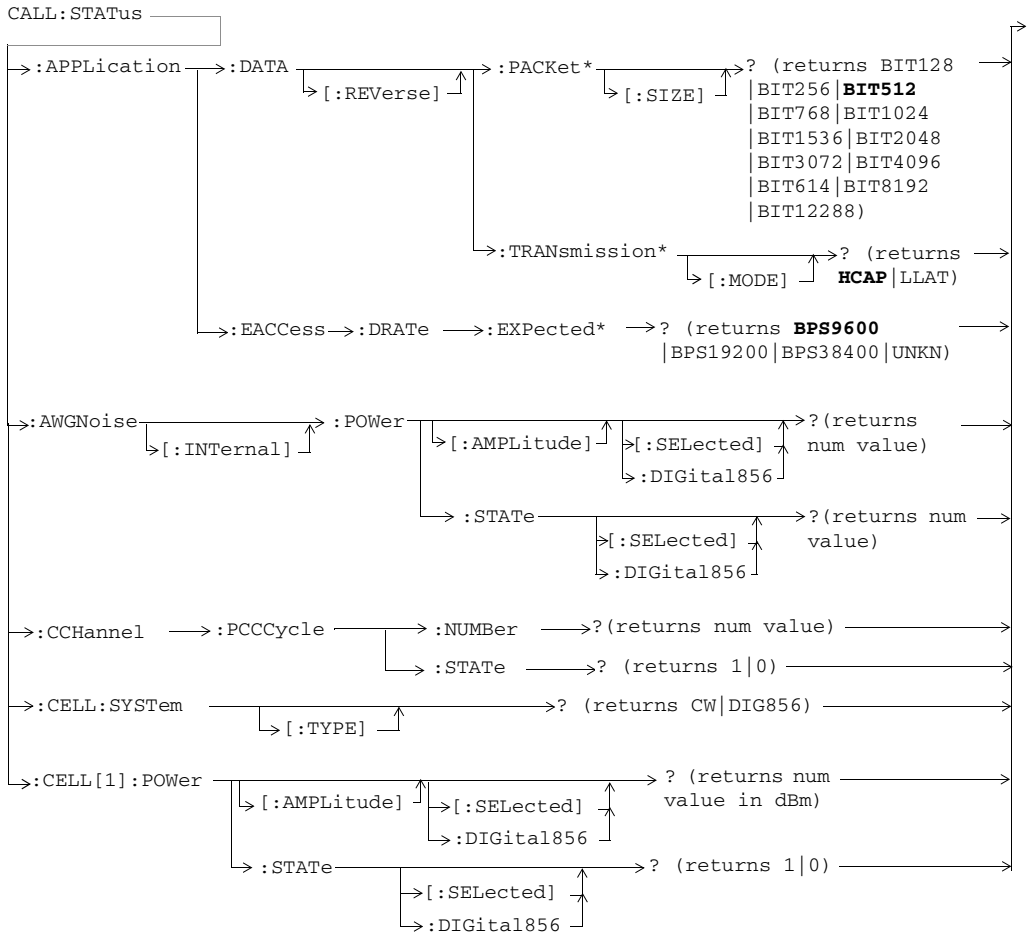
CALL:SETup



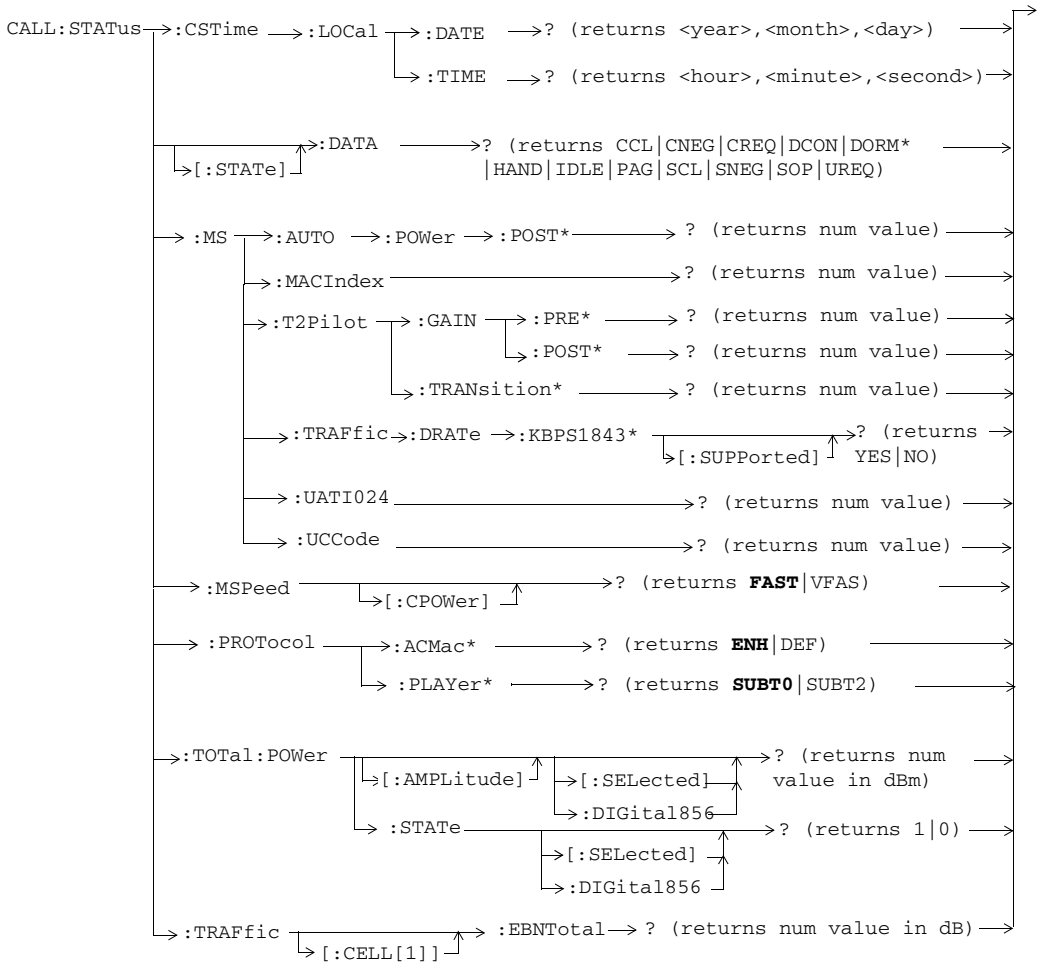
CALL:SOPen?



CALL:STATus



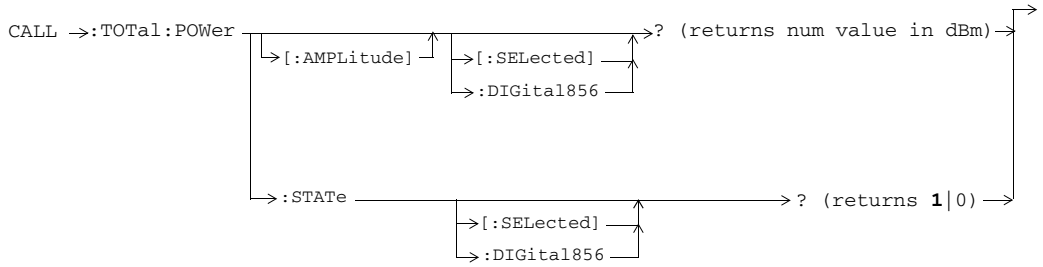
** Only applicable to the lab application and feature-licensed test application.*



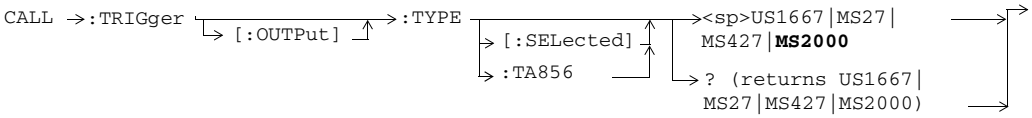
** Only applicable to the lab application and feature-licensed test application.*

CALL:TEST856

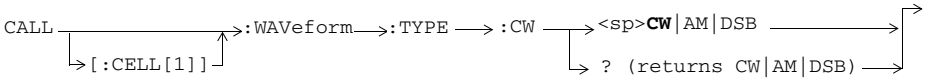
CALL:TOTal:POWer



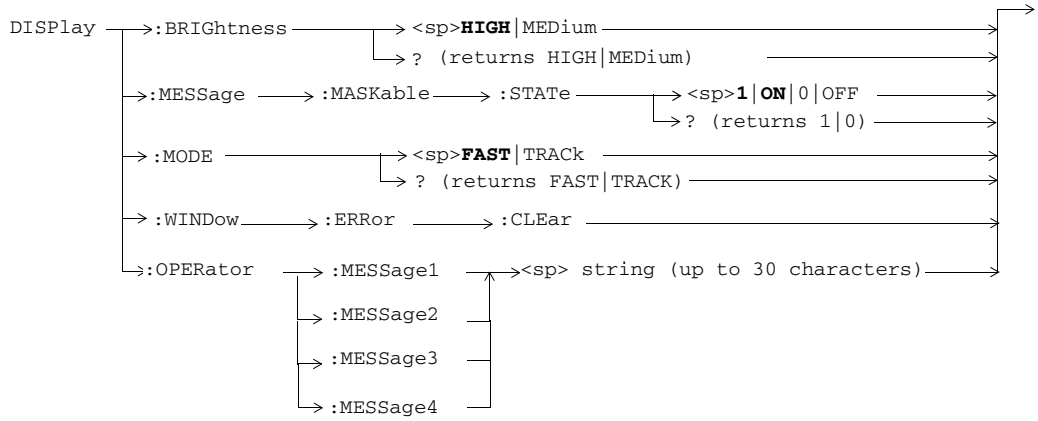
CALL:TRIGger



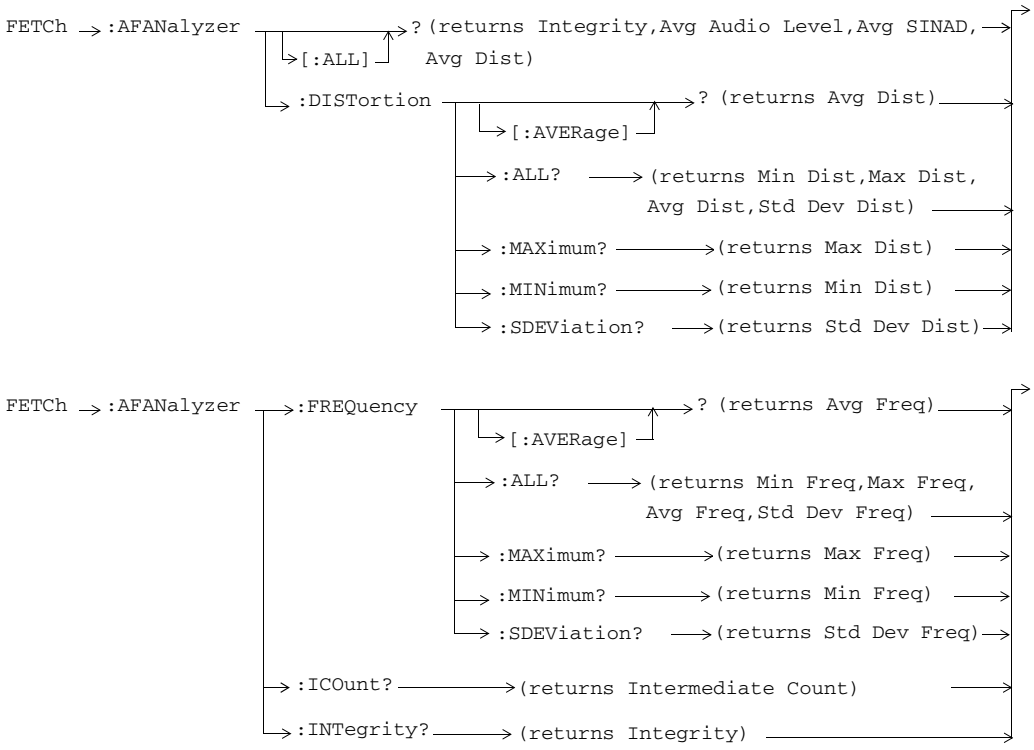
CALL:WAVeform

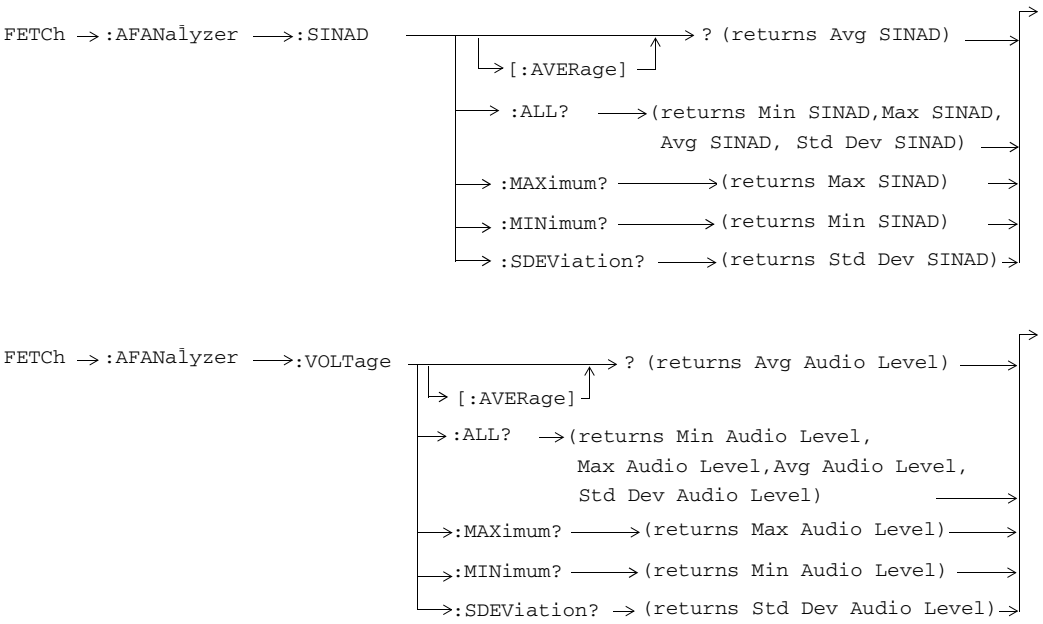


DISPlay

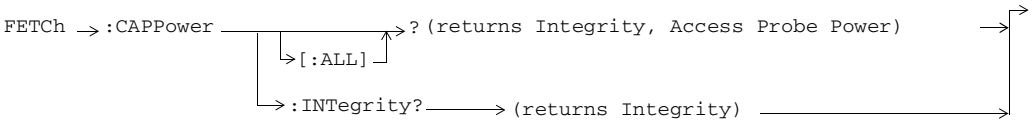

DISPlay
:BRIGhtness
<sp>HIGH|MEDium
? (returns HIGH|MEDium)
:MESSage
:MASKable
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:MODE
<sp>FAST|TRACk
? (returns FAST|TRACK)
:WINDow
:ERRor
:CLEar
:OPERator
:MESSage1
:MESSage2
:MESSage3
:MESSage4
<sp> string (up to 30 characters)

FETCh:AFANalyzer

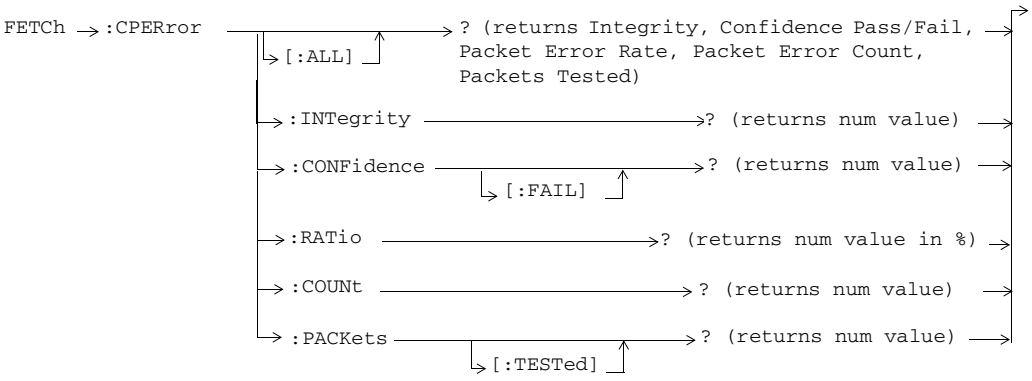



FETCh
:AFANalyzer
:SINAD
? (returns Avg SINAD)
[:AVERage]
:ALL?
(returns Min SINAD,Max SINAD,
Avg SINAD, Std Dev SINAD)
:MAXimum?
(returns Max SINAD)
:MINimum?
(returns Min SINAD)
:SDEViation?
(returns Std Dev SINAD)
FETCh
:AFANalyzer
:VOLTage
? (returns Avg Audio Level)
[:AVERage]
:ALL?
(returns Min Audio Level,
Max Audio Level,Avg Audio Level,
Std Dev Audio Level)
:MAXimum?
(returns Max Audio Level)
:MINimum?
(returns Min Audio Level)
:SDEViation?
(returns Std Dev Audio Level)

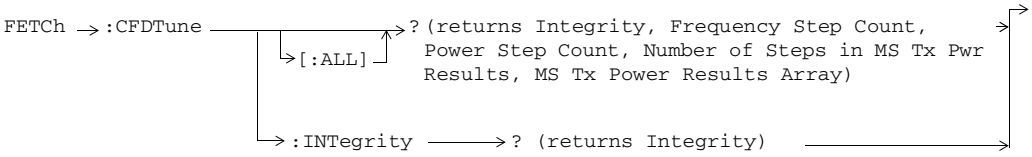
FETCh:CAPPower



FETCh:CPERror

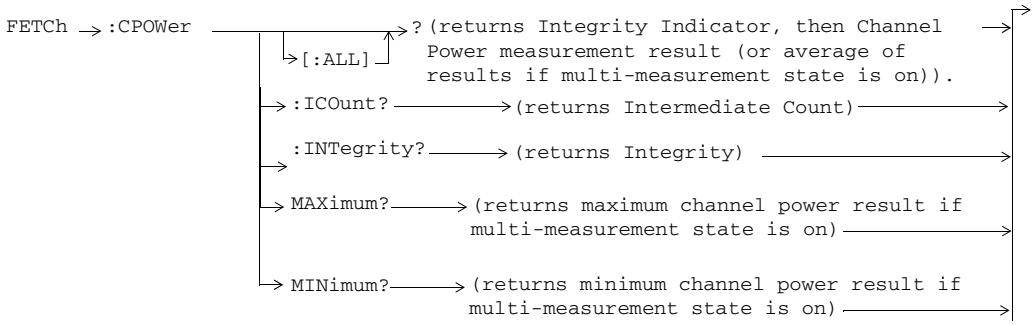


FETCh:CFDTune

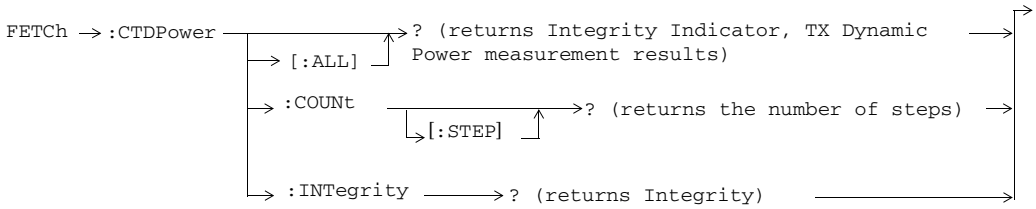


All commands shown in this diagram are only applicable to the lab application or feature-licensed test application.

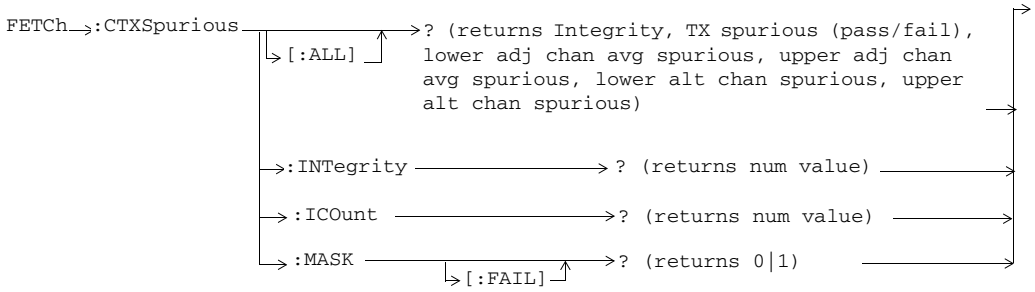
FETCh:CPOWer



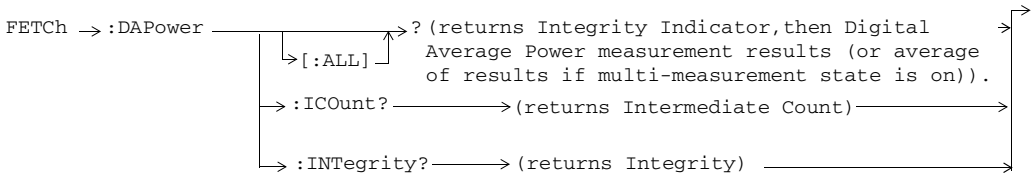
FETCh:CTDPower



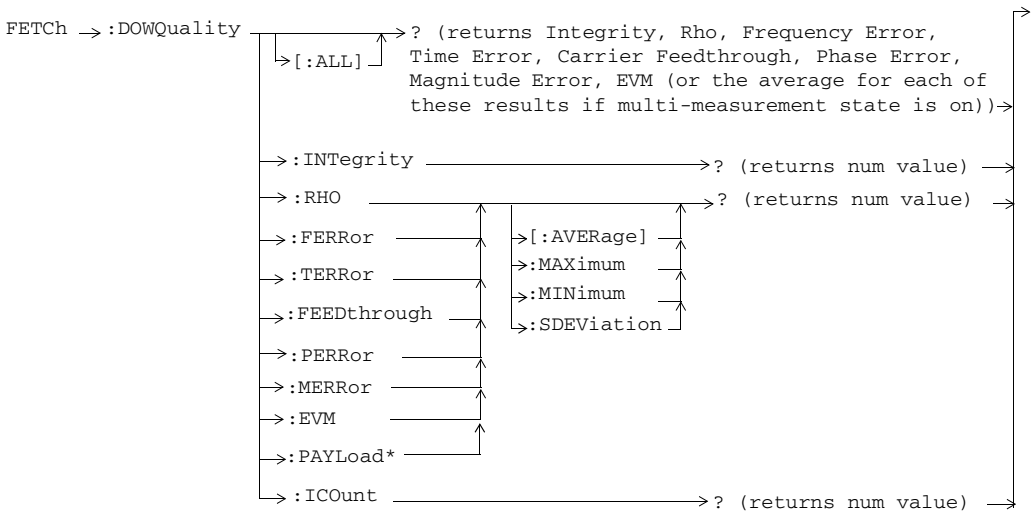
FETCh:CTXSpurious



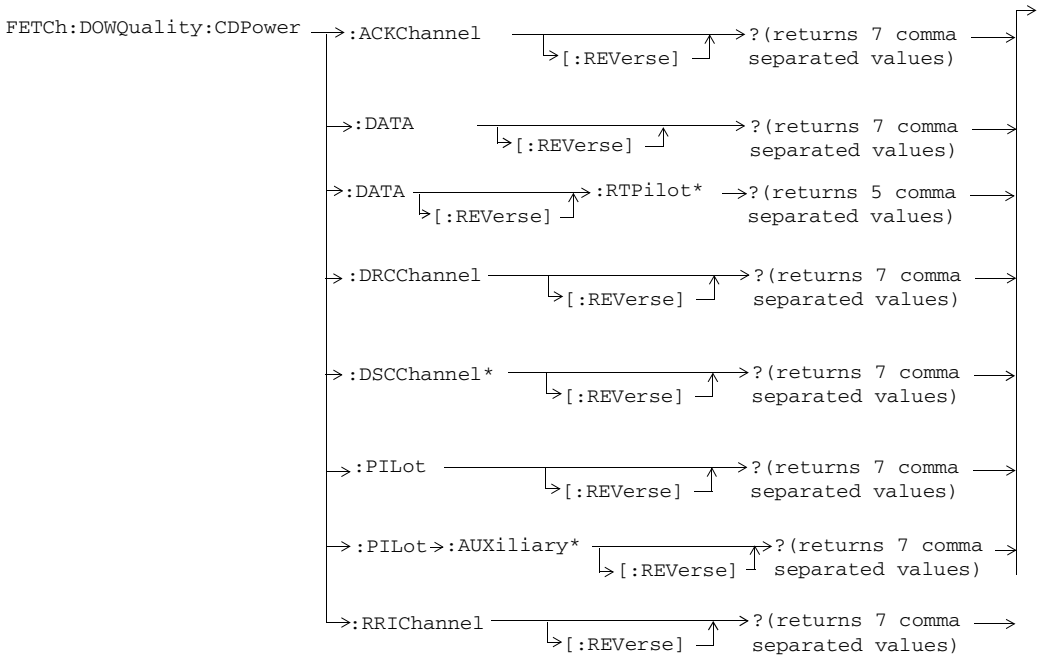
FETCh:DAPower



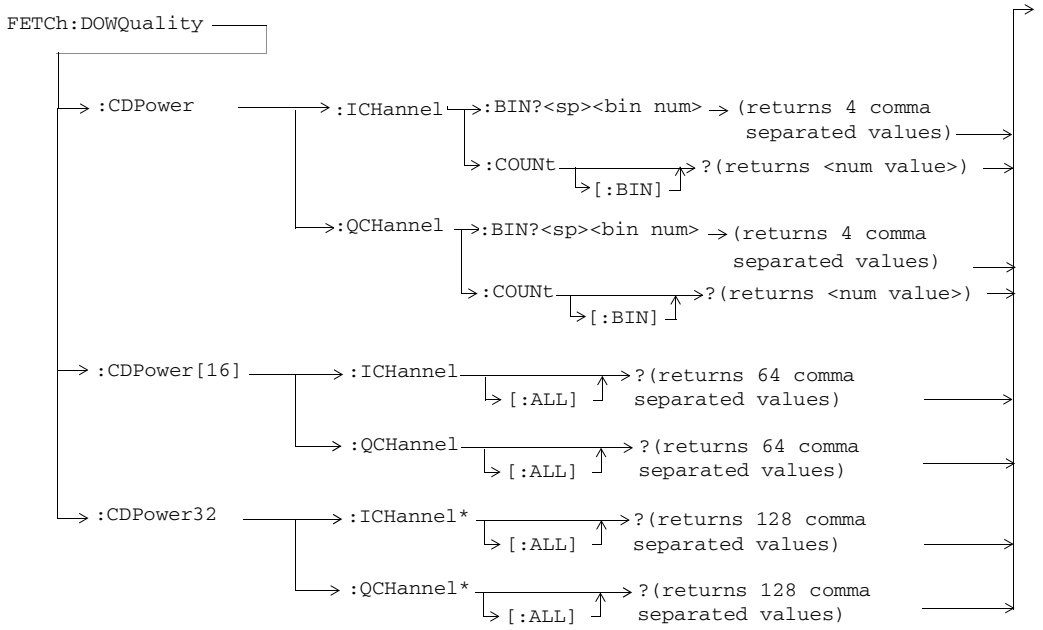
FETCh:DOWQuality



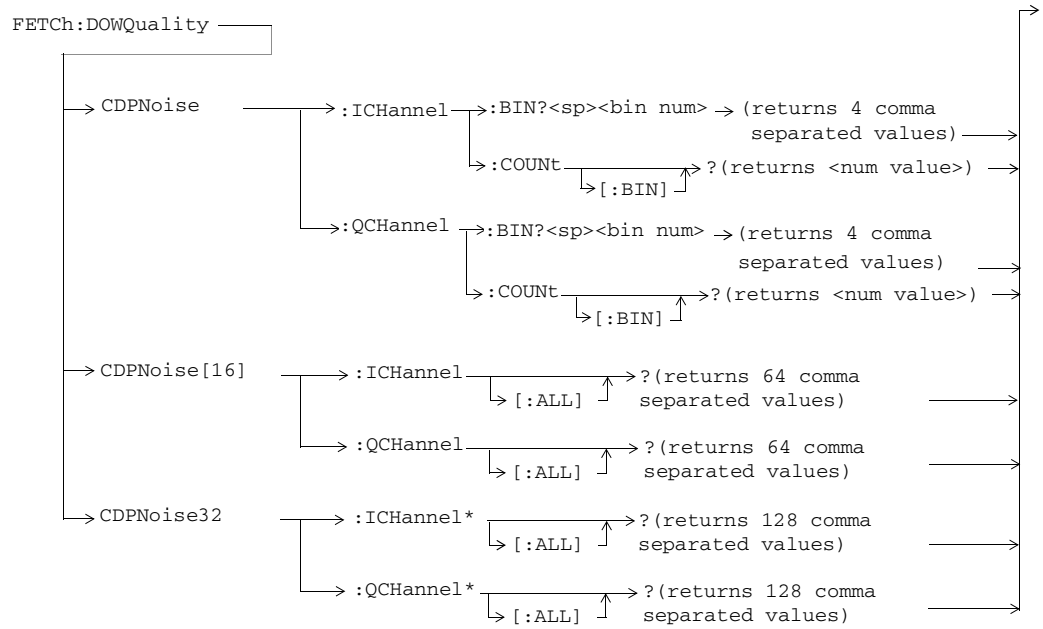
** Only applicable to the lab application and feature-licensed test application.*



** Only applicable to the lab application and feature-licensed test application.*

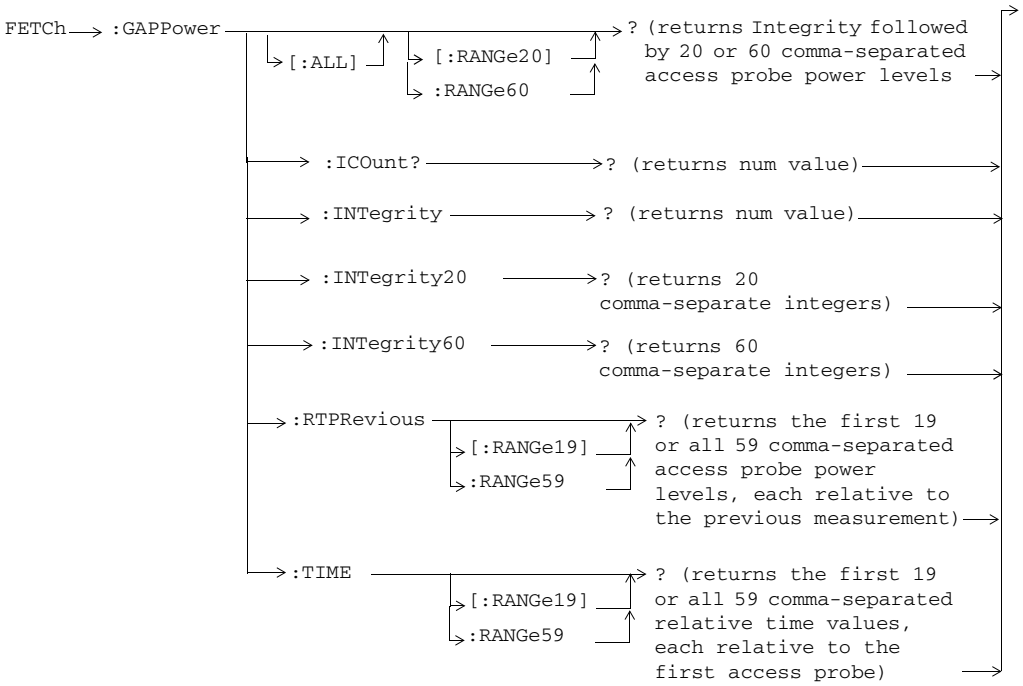


** Only applicable to the lab application and feature-licensed test application.*



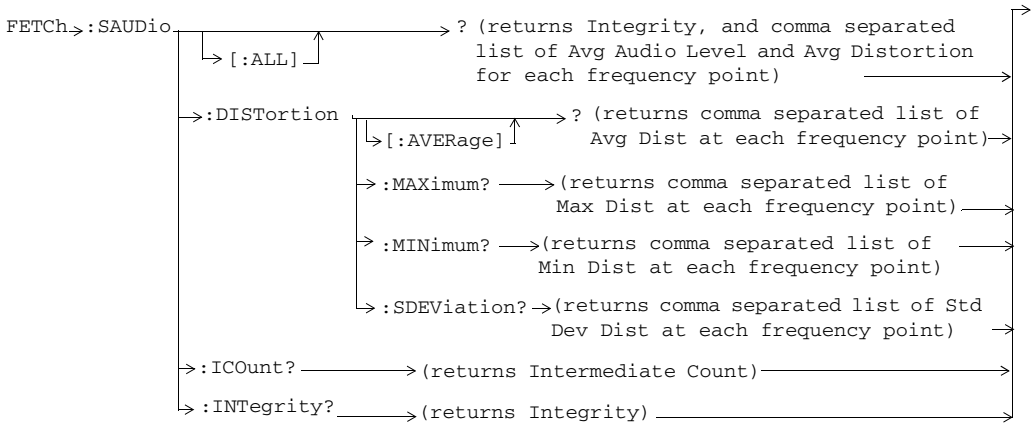
** Only applicable to the lab application and feature-licensed test application.*

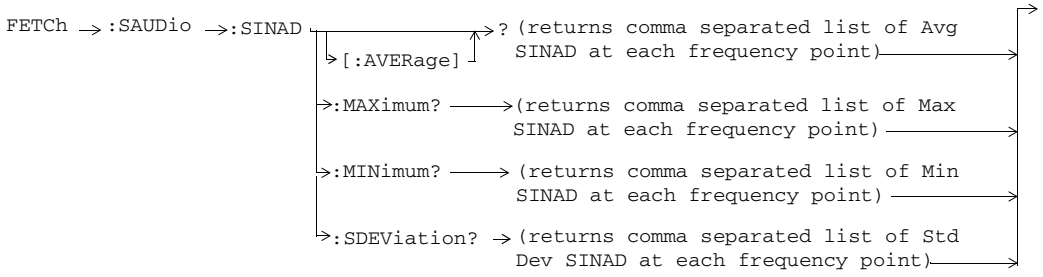
FETCh:GAPPower

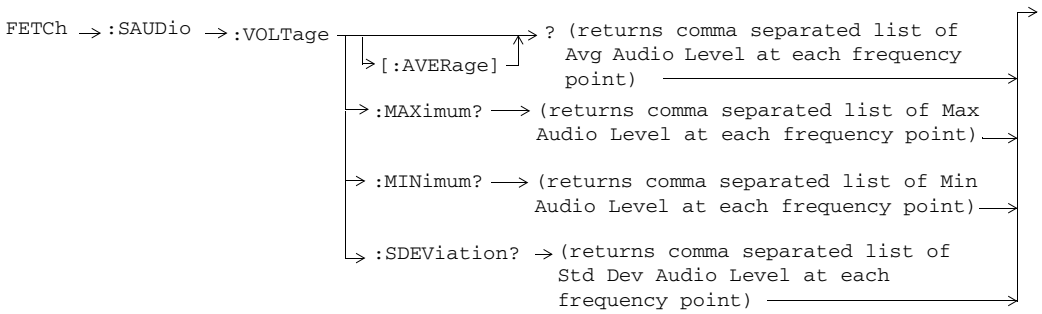


All commands shown in this diagram are only applicable to the lab application.

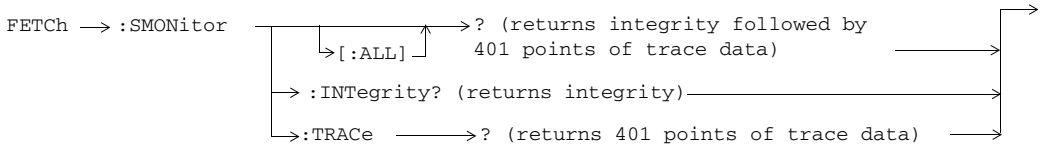
FETCh:SAUDio



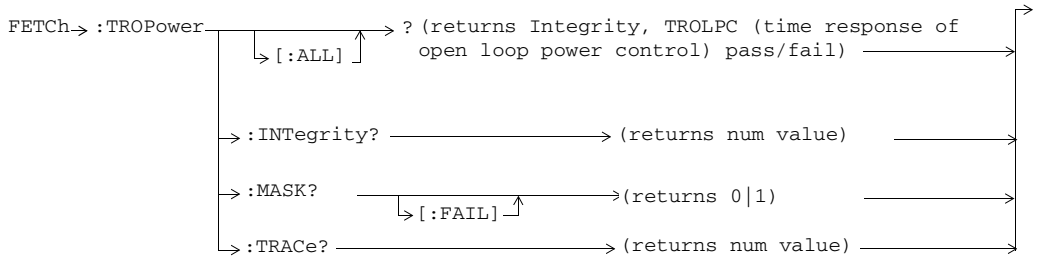



FETCh
:SAUDio
:VOLTage
[:AVERage]
? (returns comma separated list of Avg Audio Level at each frequency point)
:MAXimum?
(returns comma separated list of Max Audio Level at each frequency point)
:MINimum?
(returns comma separated list of Min Audio Level at each frequency point)
:SDEViation?
(returns comma separated list of Std Dev Audio Level at each frequency point)

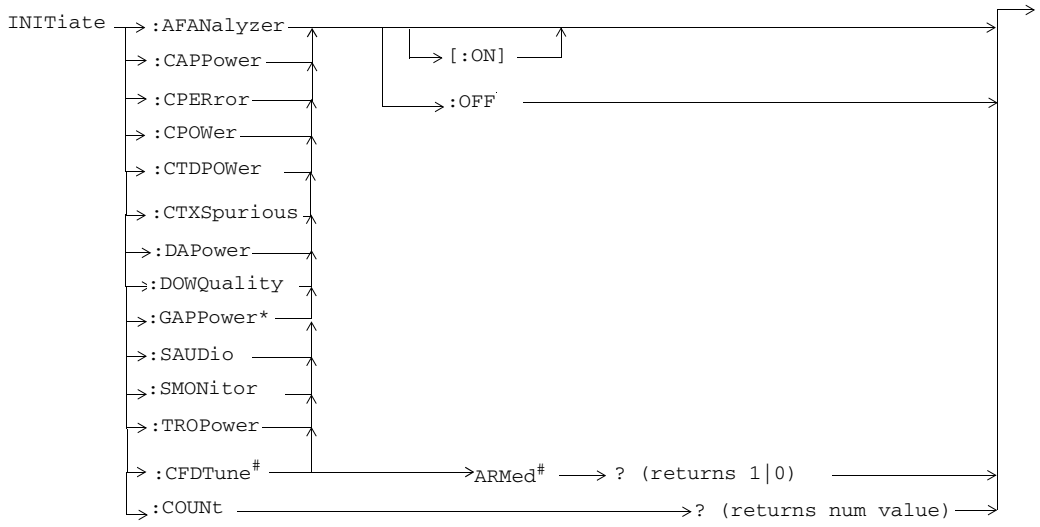
FETCh:SMONitor



FETCh:TROPower

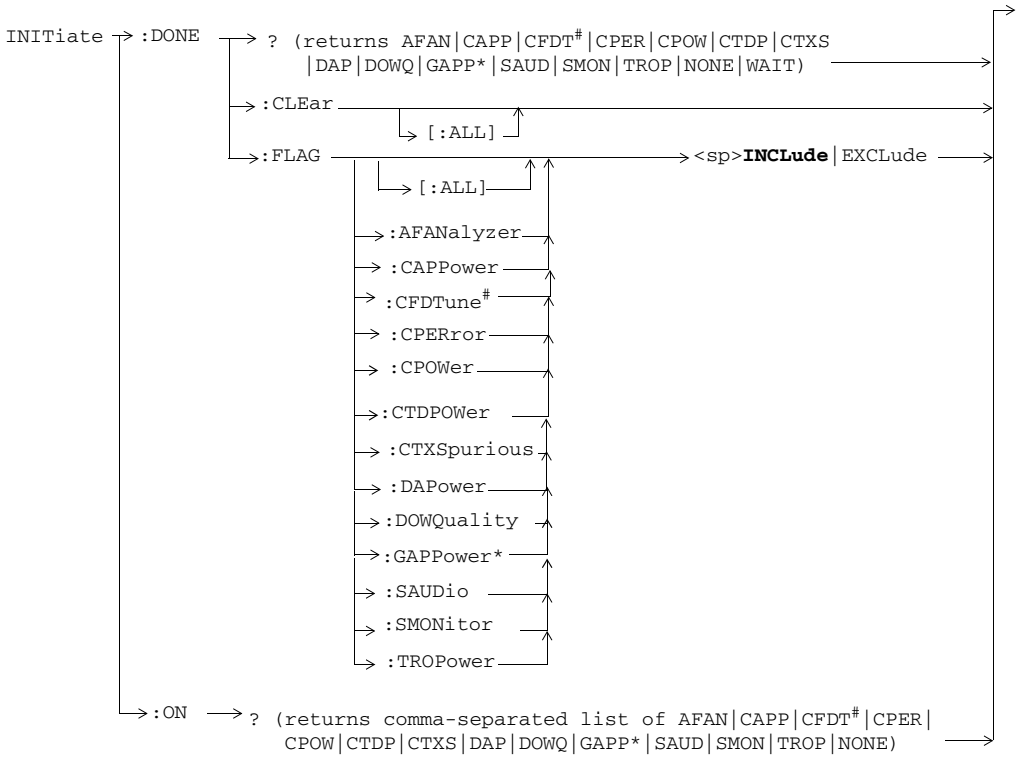


INITiate



Only applicable to the lab application or feature-licensed test application.

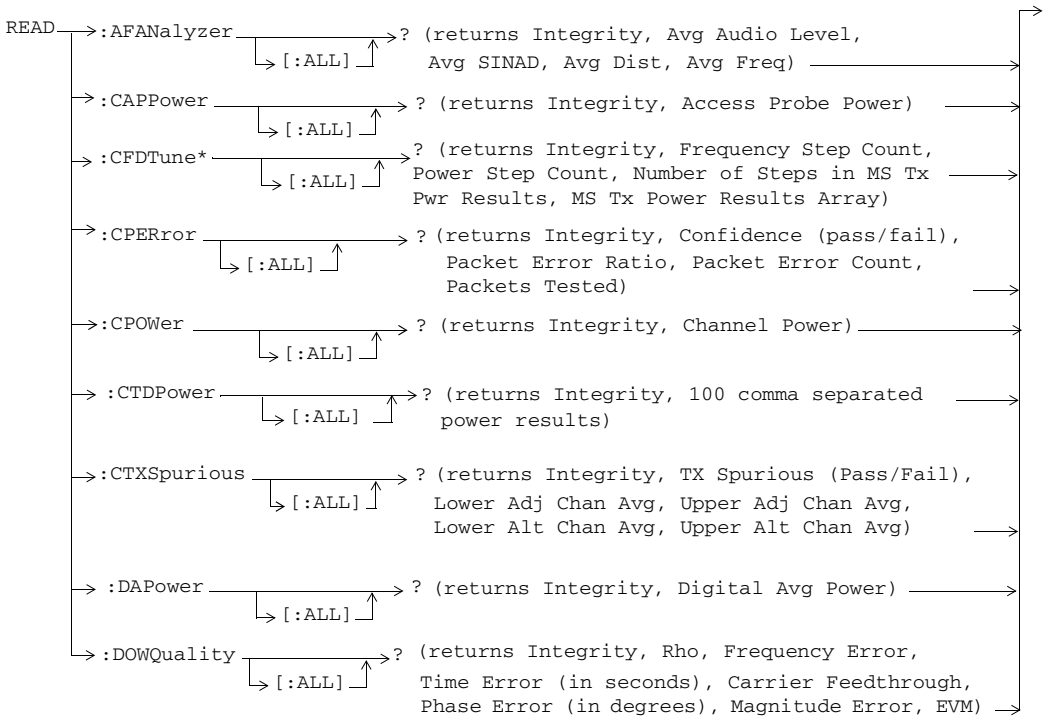
* *Only applicable to the lab application.*



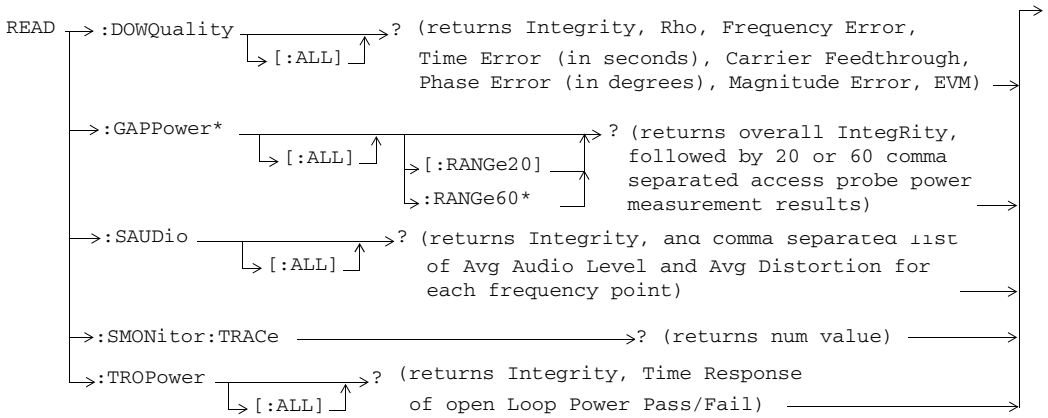
 # Only applicable to the lab application or feature-licensed test application.

** Only applicable to the lab application.*

READ

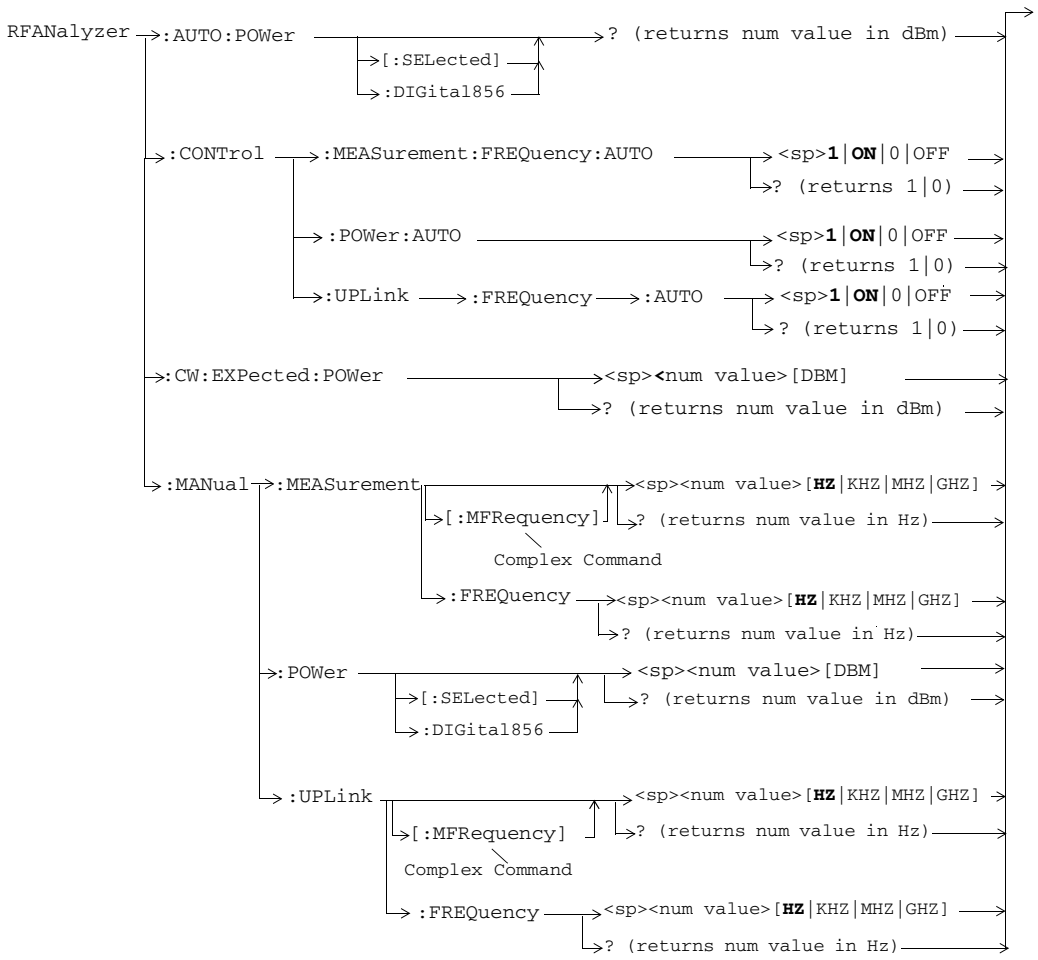


** Only applicable to the lab application or feature-licensed test application.*

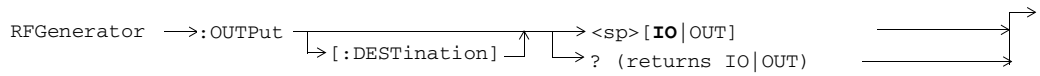


** Only applicable to the lab application.*

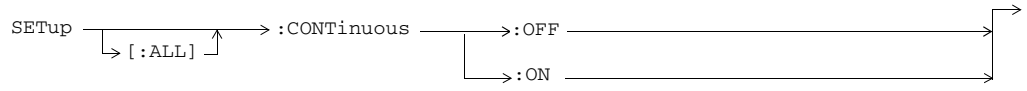
RFANalyzer


RFANalyzer
:AUTO:POWer
? (returns num value in dBm)
[:SELected]
:DIGital856
:CONTrol
:MEASurement:FREQuency:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)
:POWer:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)
:UPLink
:FREQuency
:AUTO
<sp>1|ON|0|OFF
? (returns 1|0)
:CW:EXPected:POWer
<sp><num value>[DBM]
? (returns num value in dBm)
:MANual
:MEASurement
<sp><num value>[HZ|KHZ|MHZ|GHZ]
[:MFRequency]
? (returns num value in Hz)
Complex Command
:FREQuency
<sp><num value>[HZ|KHZ|MHZ|GHZ]
? (returns num value in Hz)
:POWer
<sp><num value>[DBM]
[:SELected]
? (returns num value in dBm)
:DIGital856
:UPLink
<sp><num value>[HZ|KHZ|MHZ|GHZ]
[:MFRequency]
? (returns num value in Hz)
Complex Command
:FREQuency
<sp><num value>[HZ|KHZ|MHZ|GHZ]
? (returns num value in Hz)

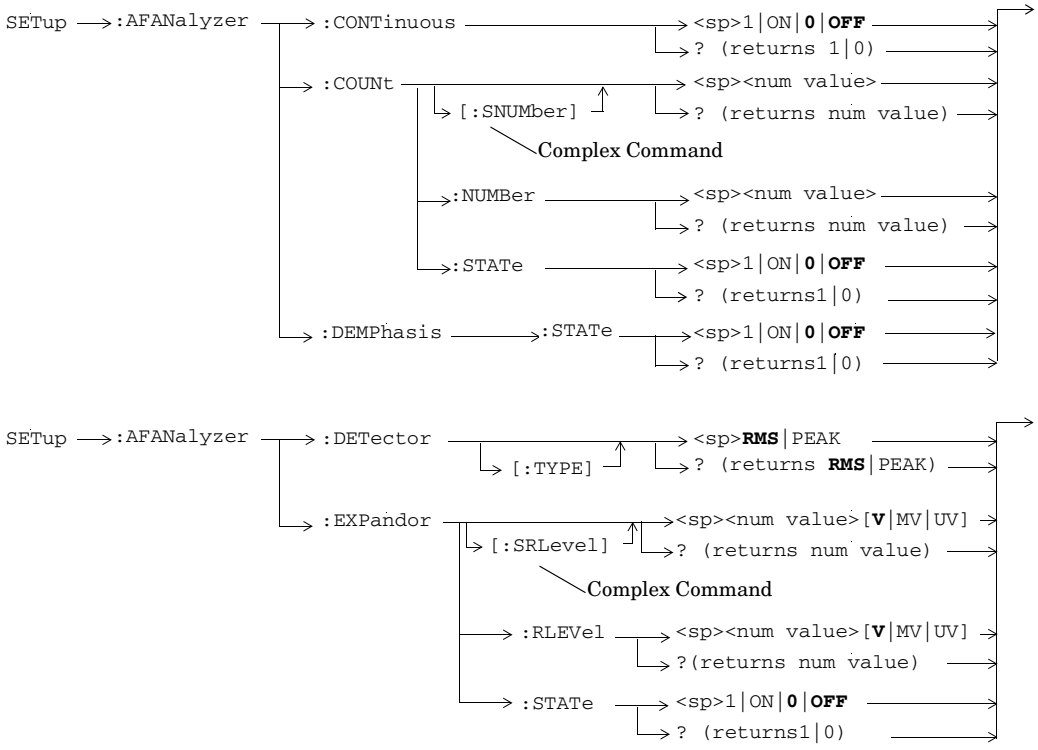
RFGenerator:OUTPut

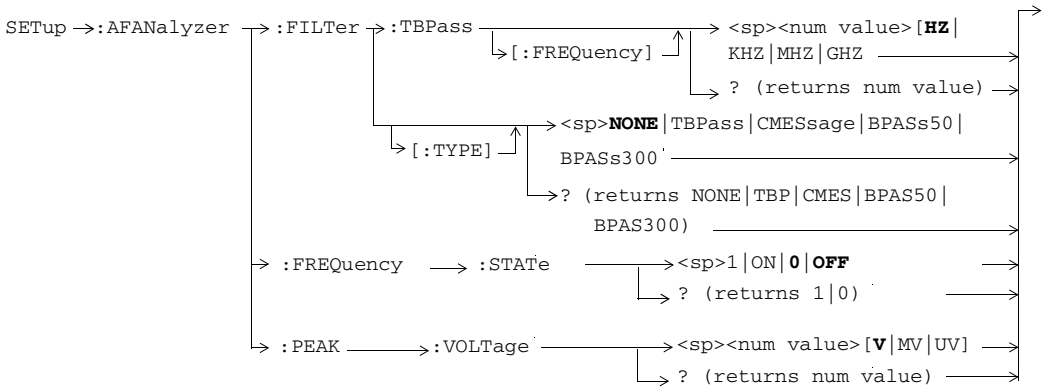


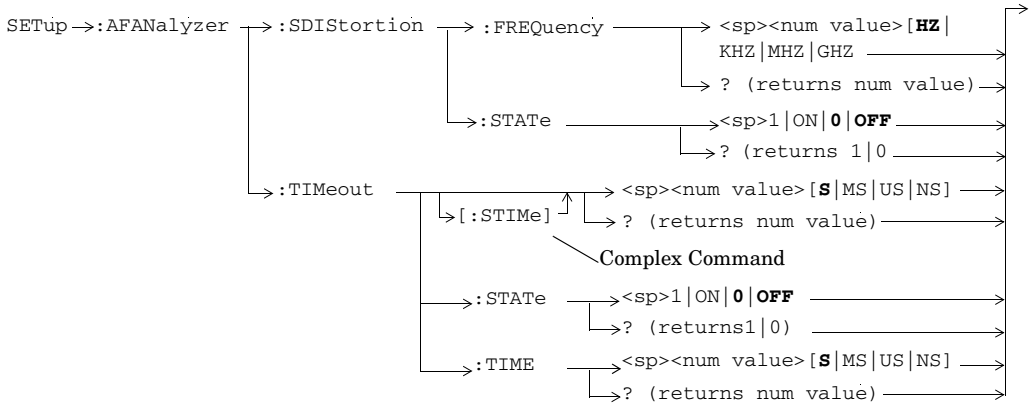
SETup:CONTinuous



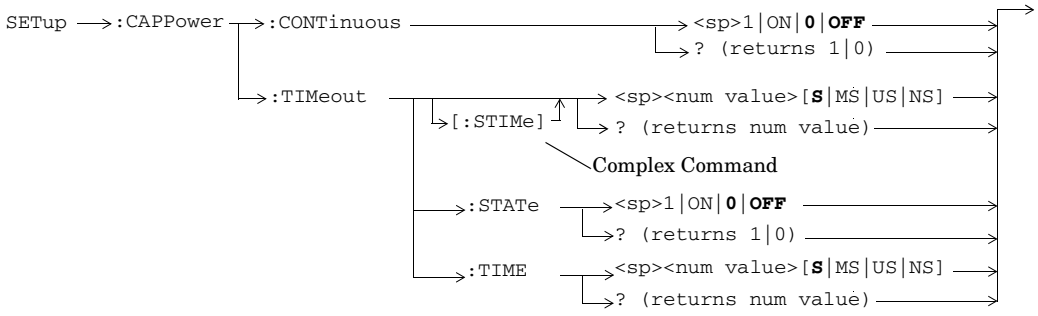
SETup:AFANalyzer



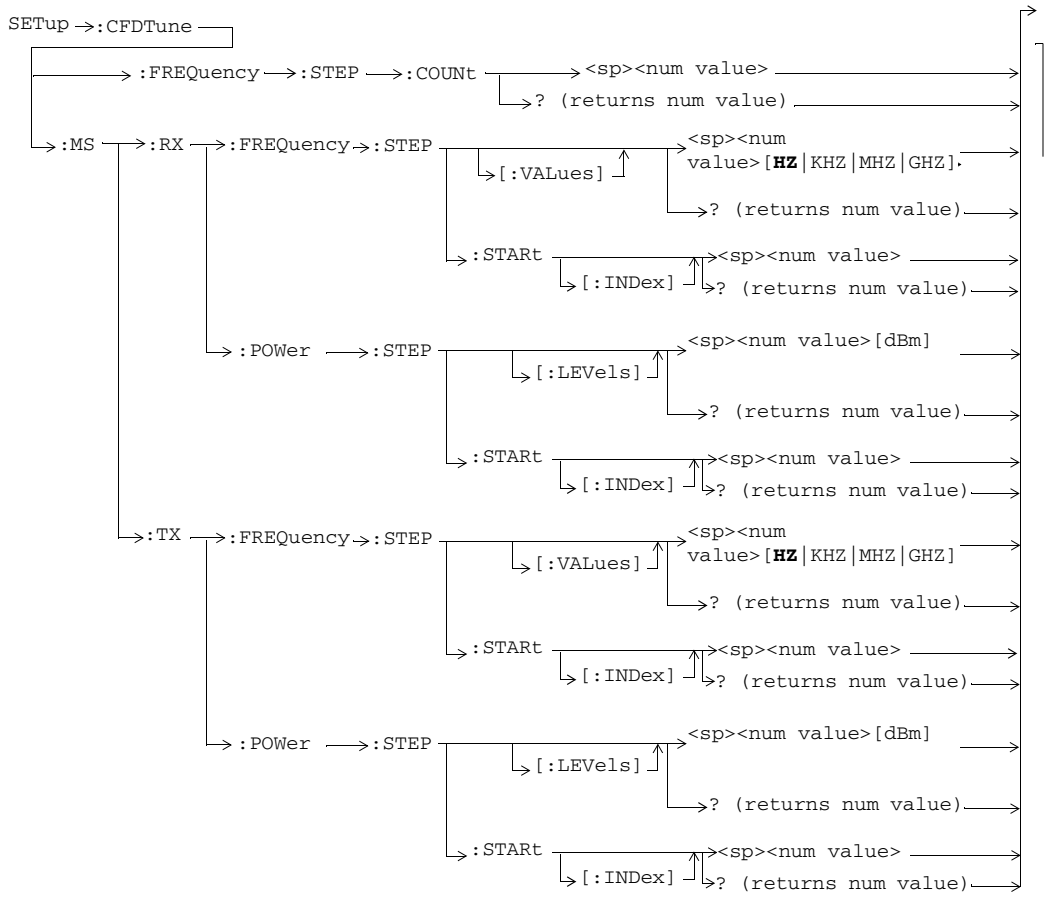

SETup
:AFANalyzer
:FILTer
:TBPass
[:FREQuency]
<sp><num value>[HZ|
KHZ|MHZ|GHZ
? (returns num value)
[:TYPE]
<sp>NONE|TBPass|CMESsage|BPASs50|
BPASs300
? (returns NONE|TBP|CMES|BPAS50|
BPAS300)
:FREQuency
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:PEAK
:VOLTage
<sp><num value>[V|MV|UV]
? (returns num value)


SETup
:AFANalyzer
:SDIStortion
:FREQuency
<sp><num value>[HZ|
KHZ|MHZ|GHZ
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns 1|0
:TIMeout
[:STIMe]
<sp><num value>[S|MS|US|NS]
? (returns num value)
Complex Command
:STATe
<sp>1|ON|0|OFF
? (returns1|0)
:TIME
<sp><num value>[S|MS|US|NS]
? (returns num value)

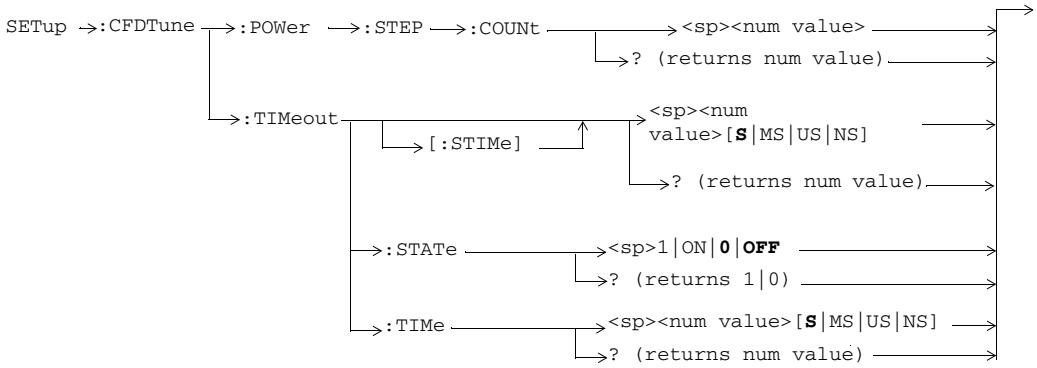
SETup:CAPPower



SETup:CFDTune

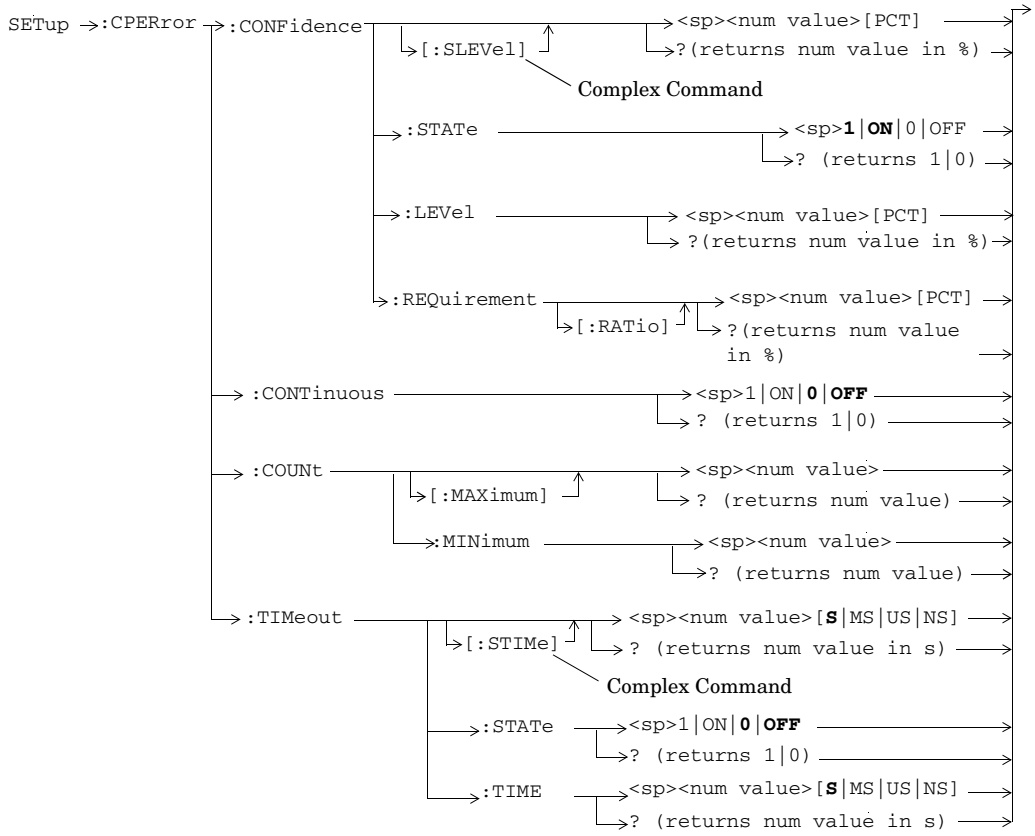


All commands shown in this diagram are only applicable to the lab application or feature-licensed test application.

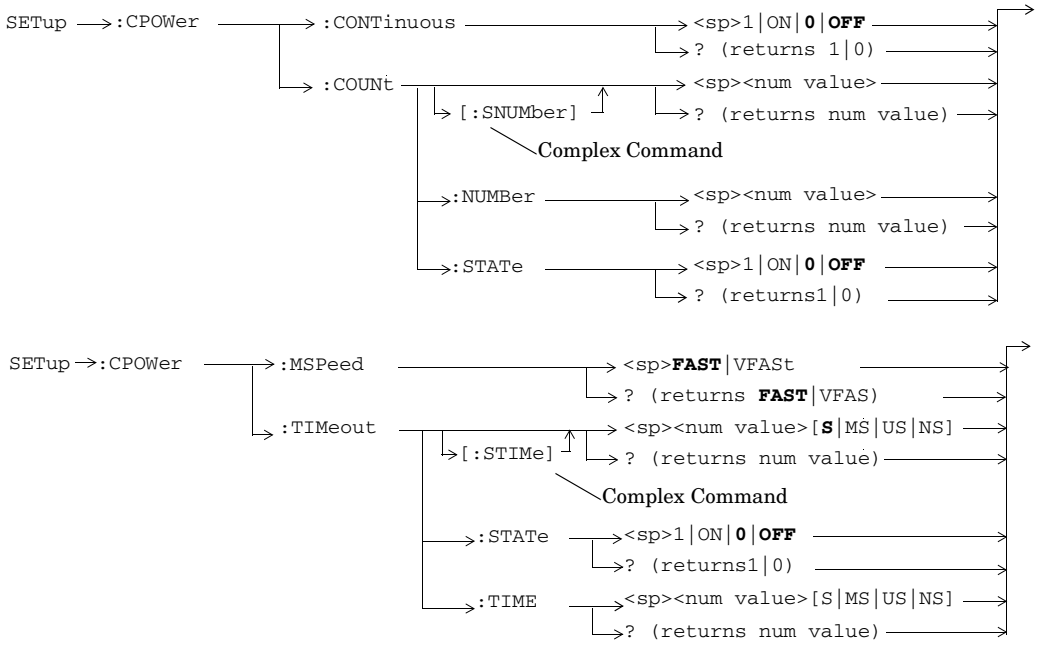


All commands shown in this diagram are only applicable to the lab application or feature-licensed test application.

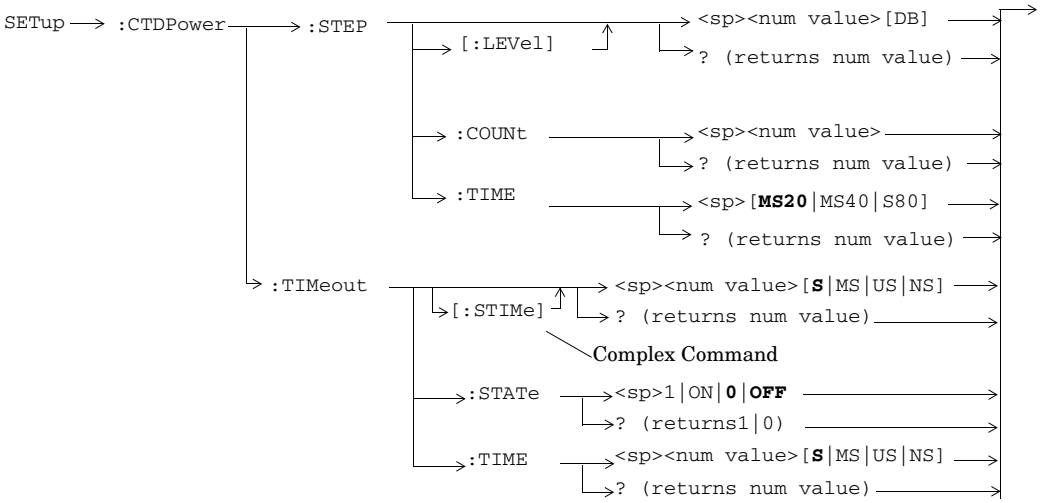
SETup:CPERror



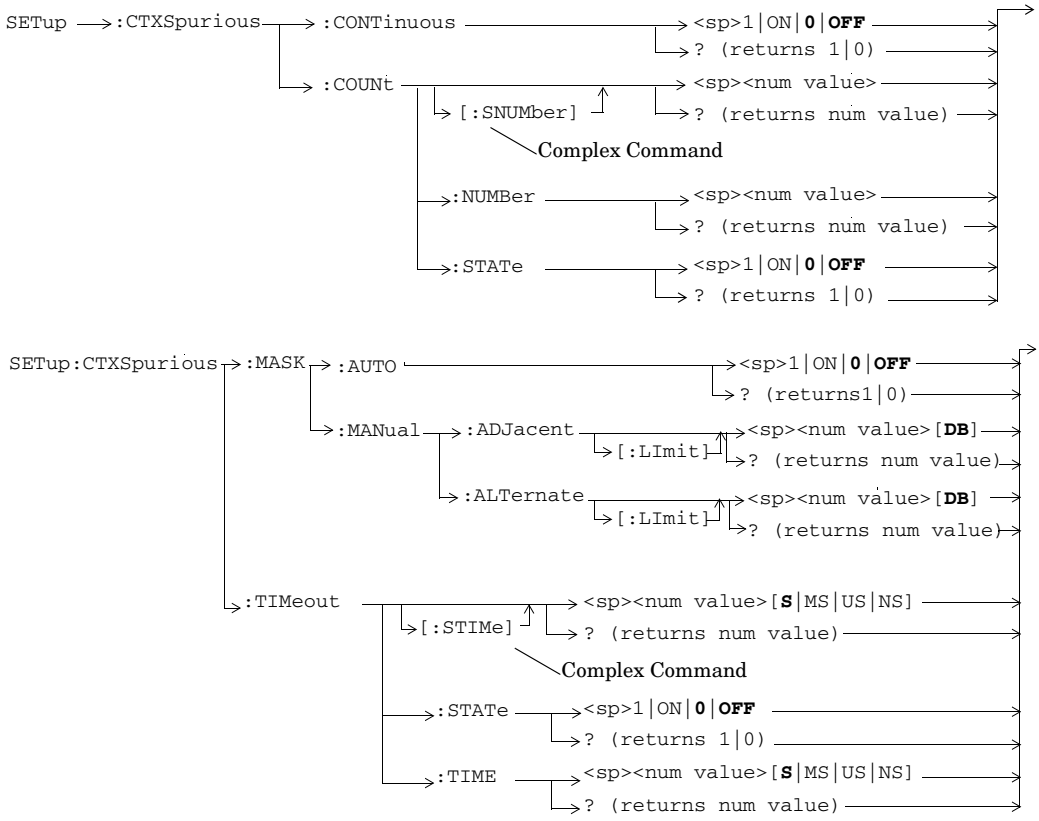
SETup:CPOWer



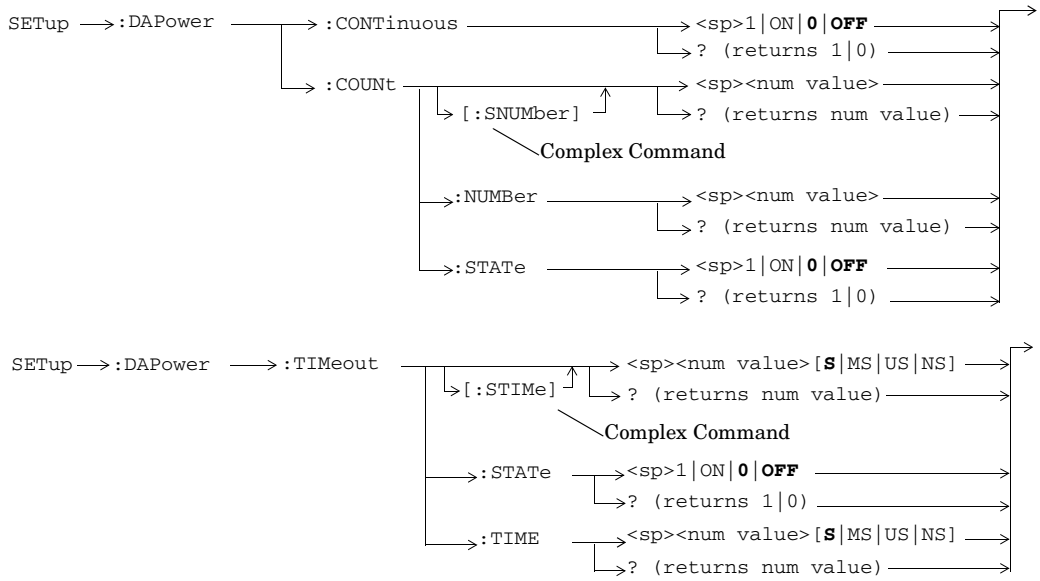
SETup:CTDPower



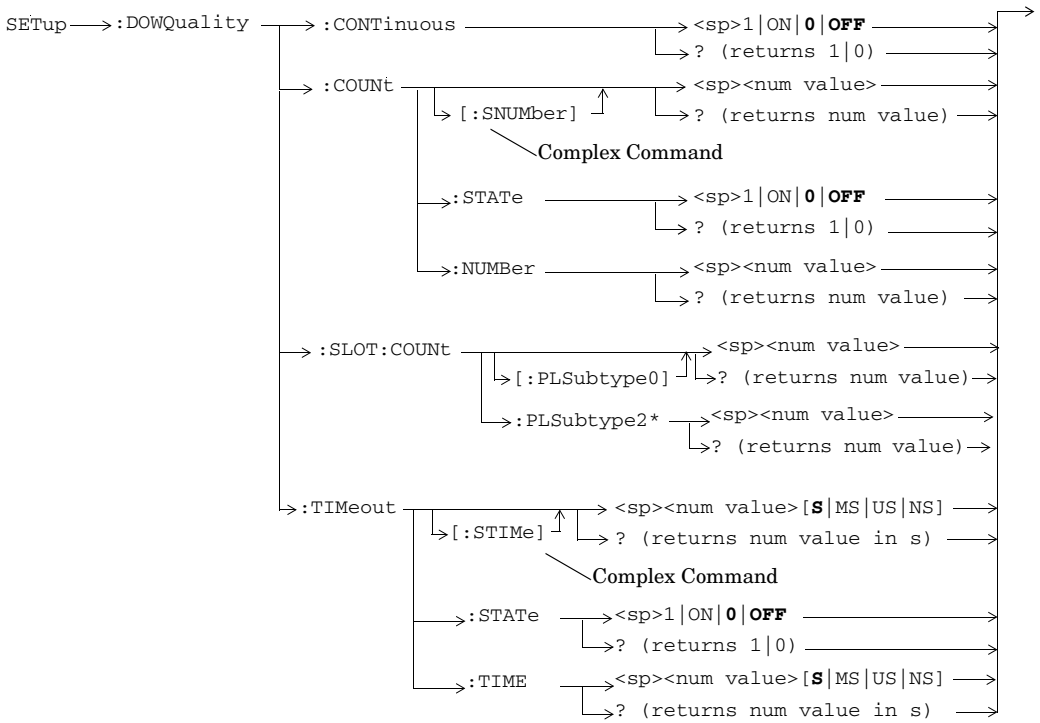
SETup:CTXSpurious



SETup:DAPower

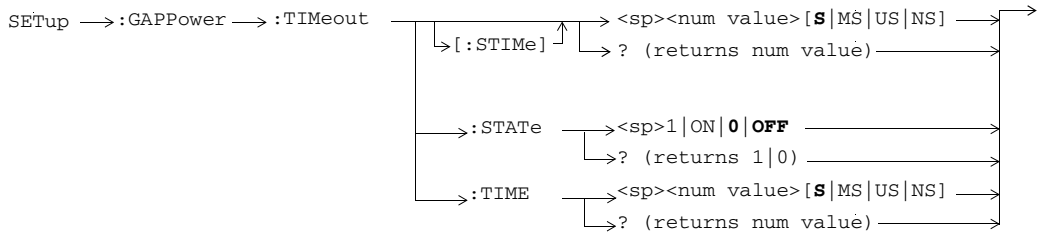


SETup:DOWQuality



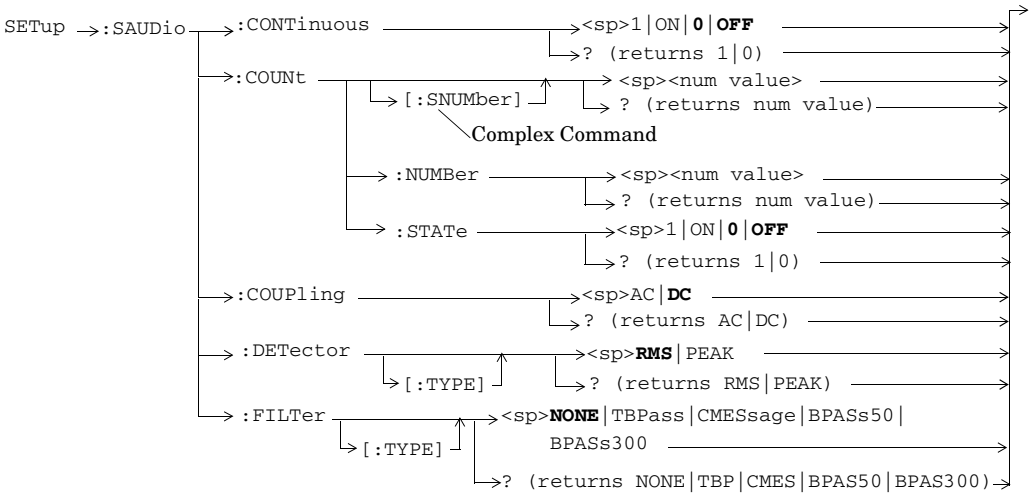
** Only applicable to the lab application and feature-licensed test application.*

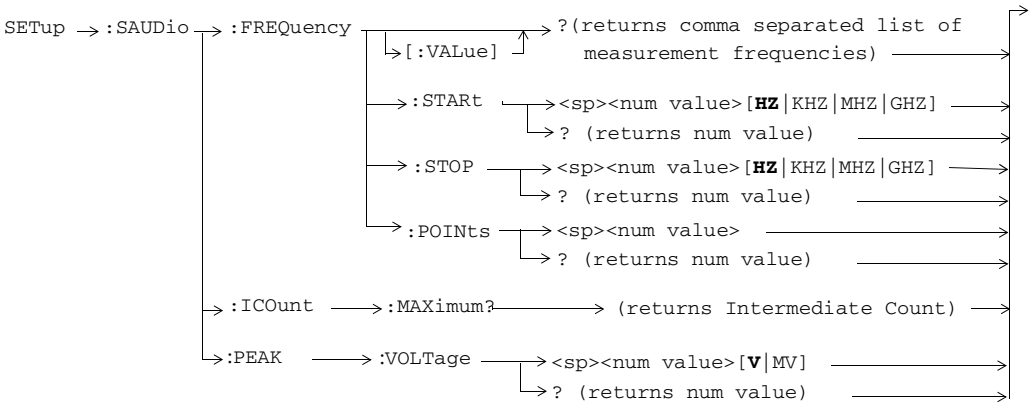
SETup:GAPPower

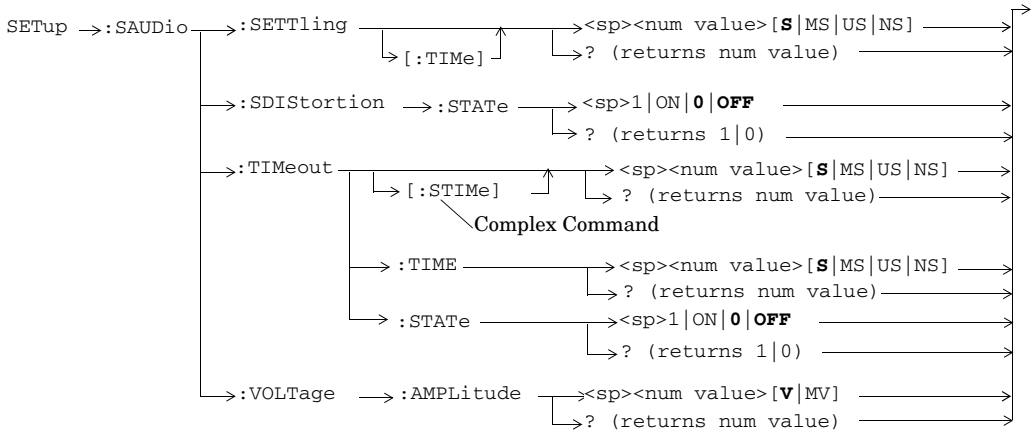


All commands shown in this diagram are only applicable to the lab application.

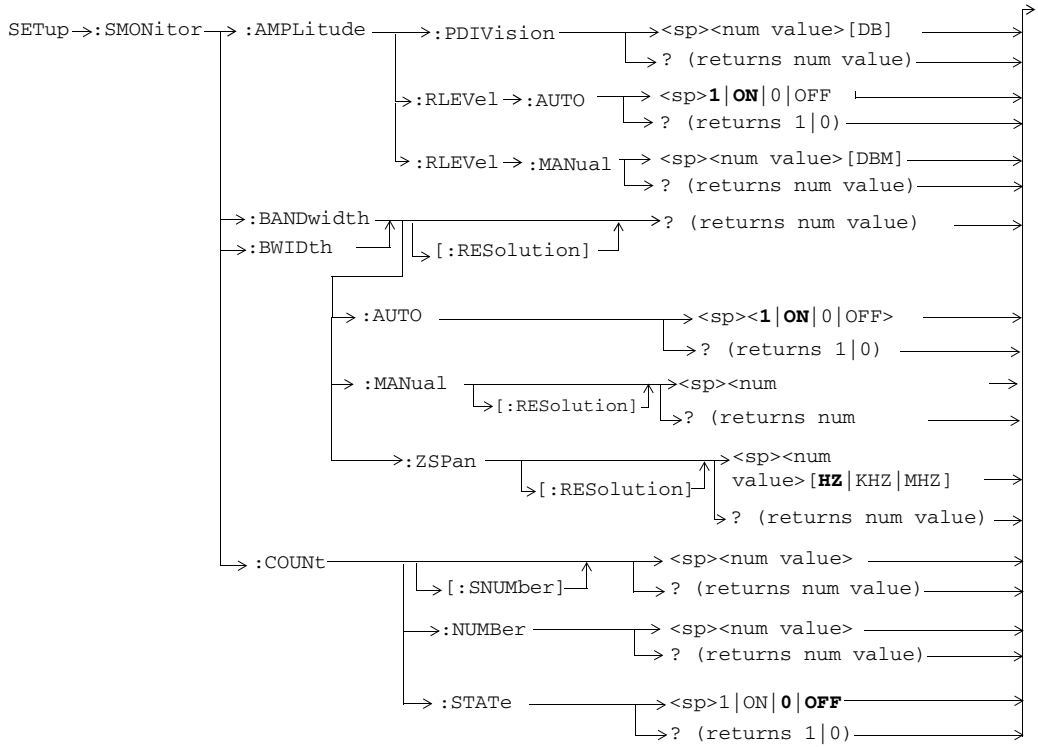
SETup:SAUDio

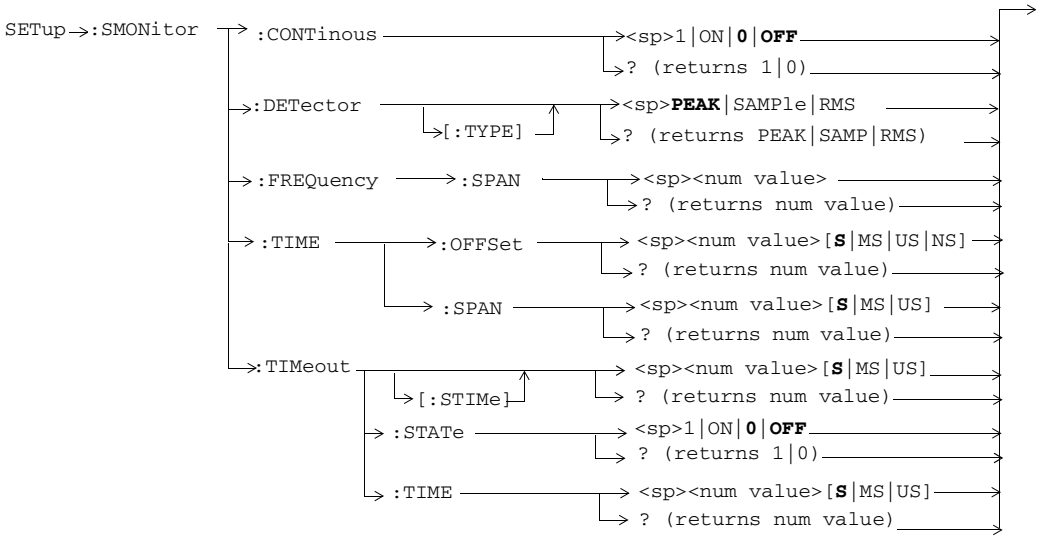


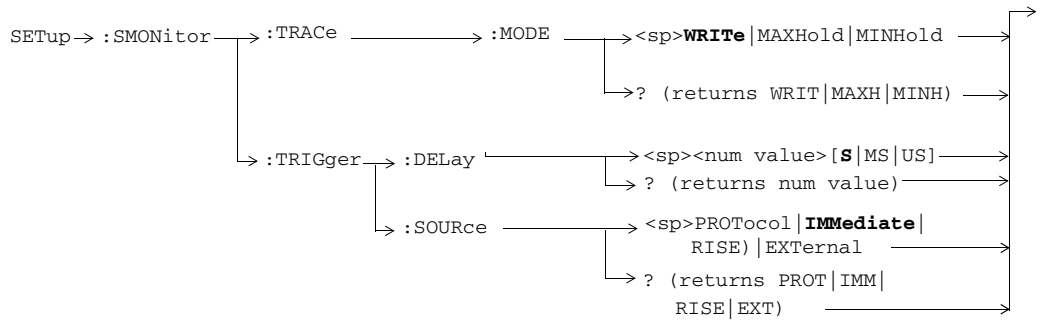



SETup
:SAUDio
:SETTling
[:TIMe]
<sp><num value>[S|MS|US|NS]
? (returns num value)
:SDIStortion
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:TIMeout
[:STIMe]
<sp><num value>[S|MS|US|NS]
? (returns num value)
Complex Command
:TIME
<sp><num value>[S|MS|US|NS]
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:VOLTage
:AMPLitude
<sp><num value>[V|MV]
? (returns num value)

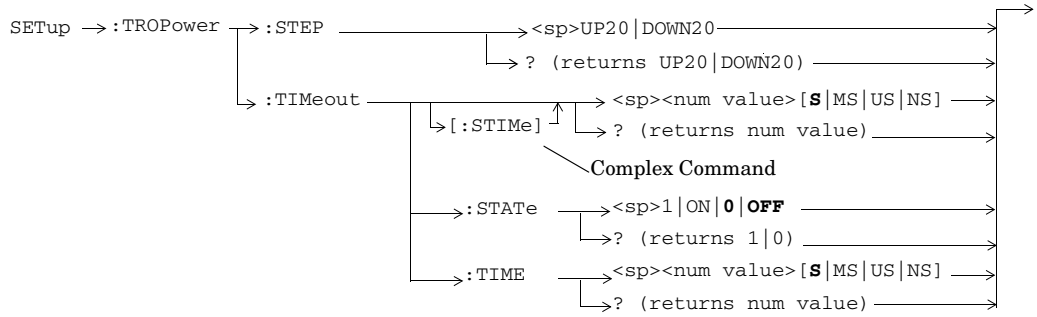
SETup:SMONitor



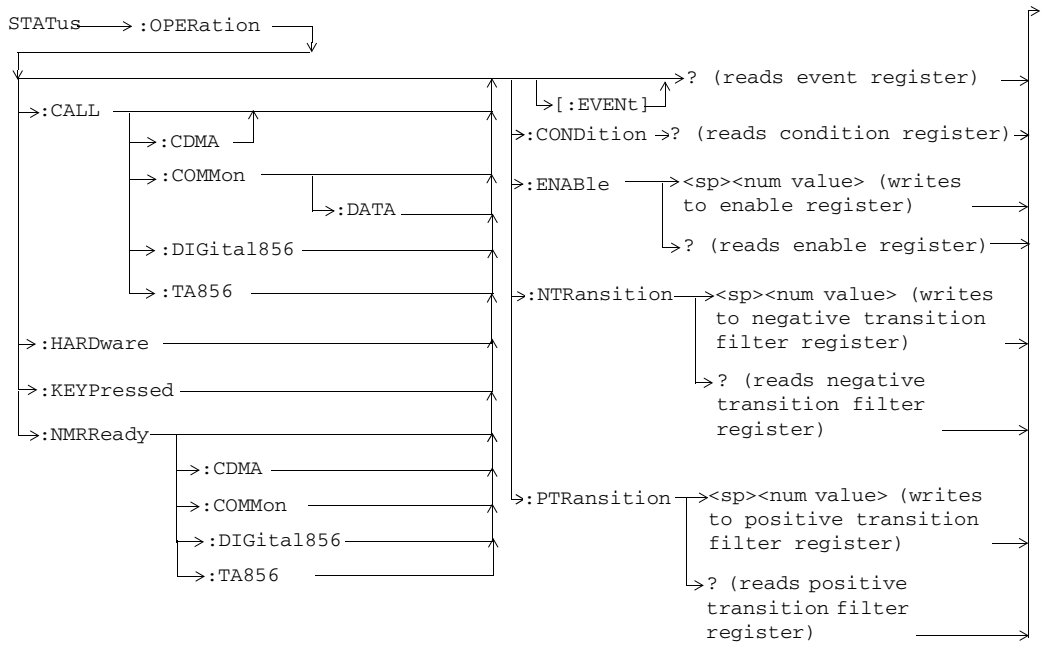

SETup
:SMONitor
:CONTinous
<sp>1|ON|0|OFF
? (returns 1|0)
:DETector
[:TYPE]
<sp>PEAK|SAMPle|RMS
? (returns PEAK|SAMP|RMS)
:FREQuency
:SPAN
<sp><num value>
? (returns num value)
:TIME
:OFFSet
<sp><num value>[S|MS|US|NS]
? (returns num value)
:SPAN
<sp><num value>[S|MS|US]
? (returns num value)
:TIMeout
[:STIMe]
<sp><num value>[S|MS|US]
? (returns num value)
:STATe
<sp>1|ON|0|OFF
? (returns 1|0)
:TIME
<sp><num value>[S|MS|US]
? (returns num value)


SETup
:SMONitor
:TRACe
:MODE
<sp>WRITe|MAXHold|MINHold
? (returns WRIT|MAXH|MINH)
:TRIGger
:DELay
<sp><num value>[S|MS|US]
? (returns num value)
:SOURce
<sp>PROTocol|IMMediate|
RISE)|EXTernal
? (returns PROT|IMM|
RISE|EXT)

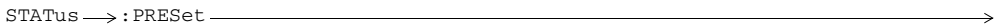
SETup:TROPower



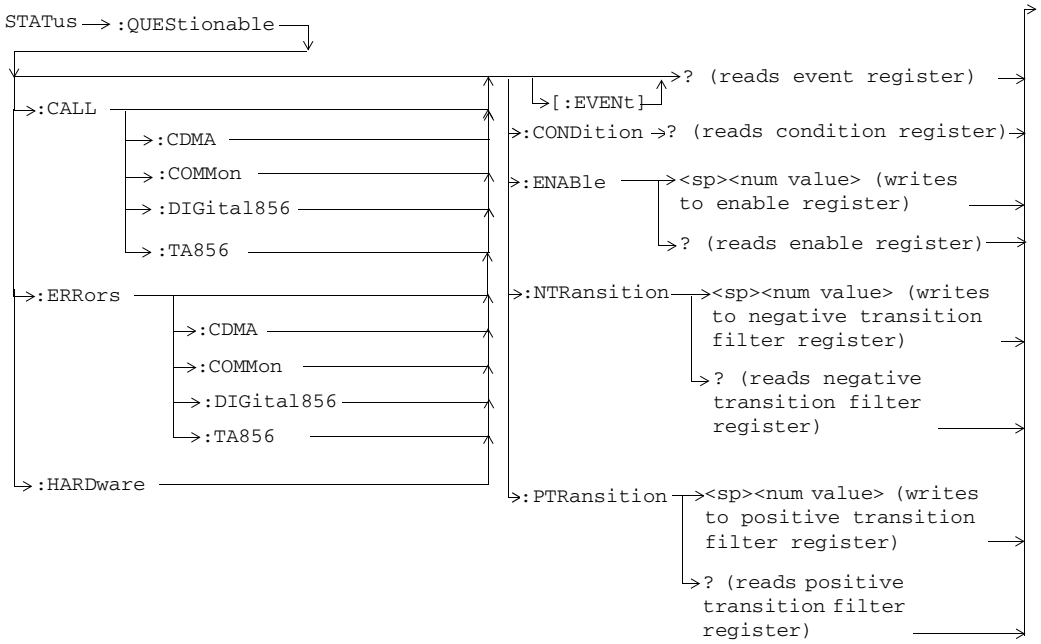
STATus:OPERation



STATus:PRESet

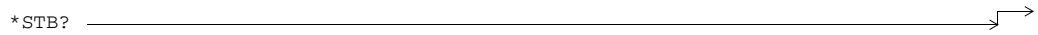


STATus:QUEStionable



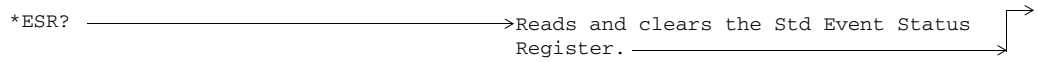
Status Byte Register

***STB?**

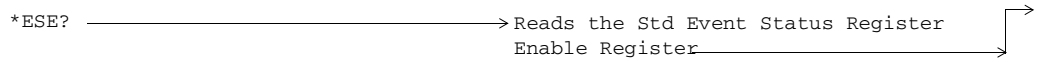


Standard Event Status Register

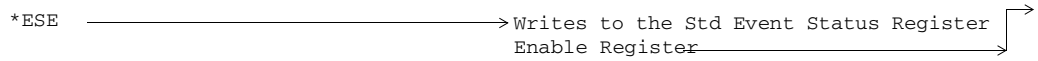
***ESR?**



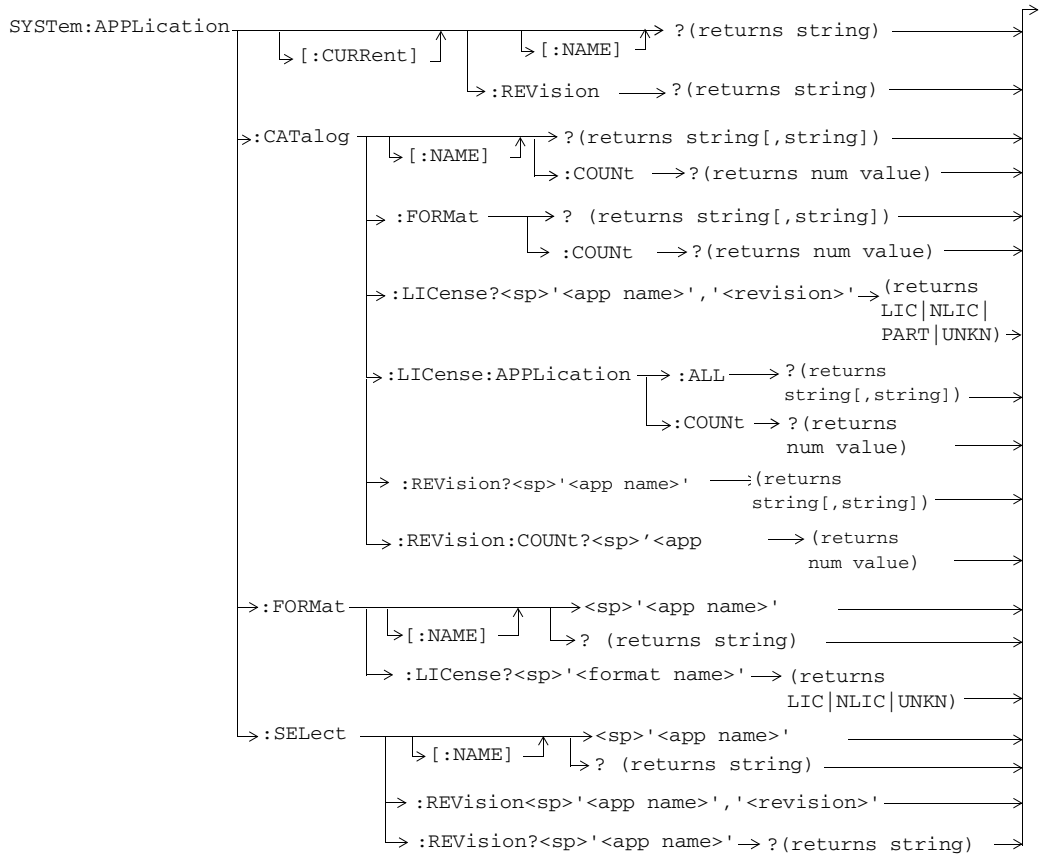
***ESE?**



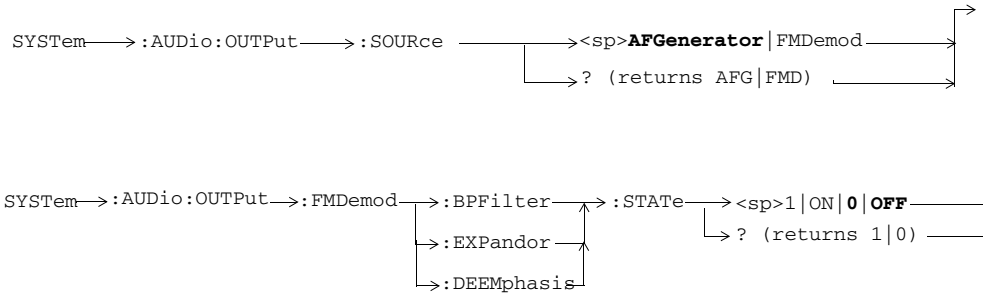
***ESE**



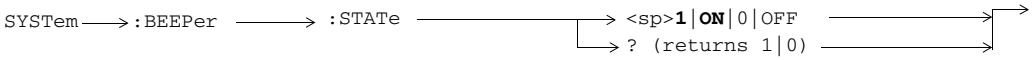
SYSTem:APPLication



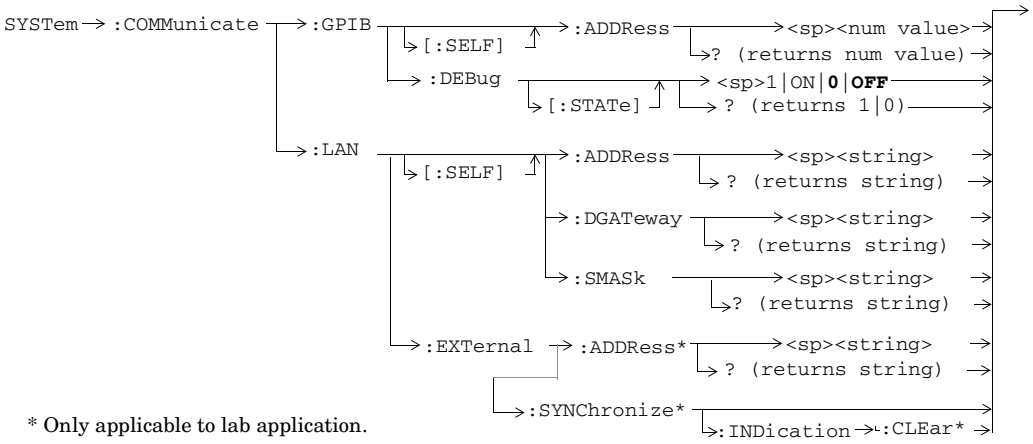
SYSTem:AUDio



SYSTem:BEEPer

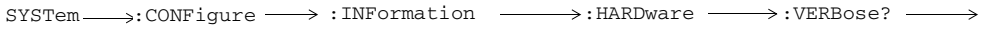


SYSTem:COMMunicate

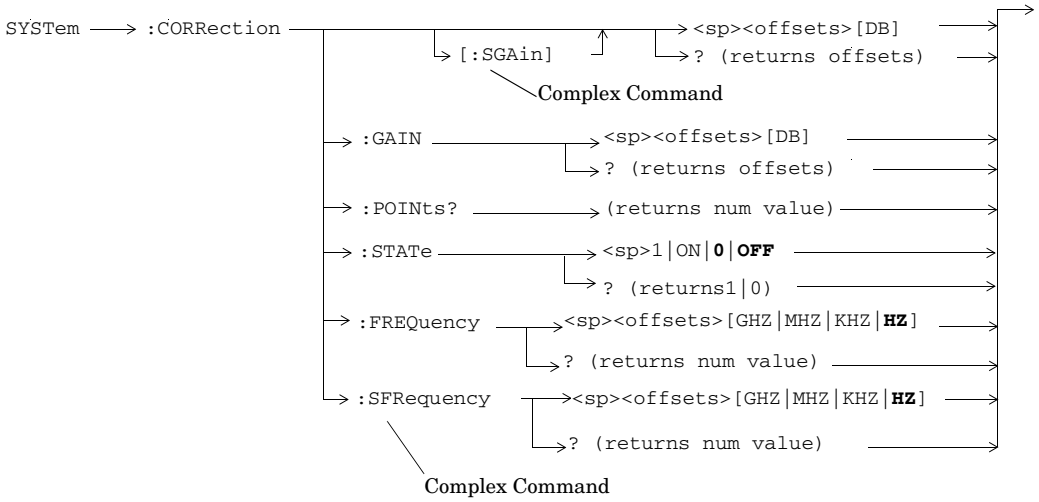


* Only applicable to lab application.

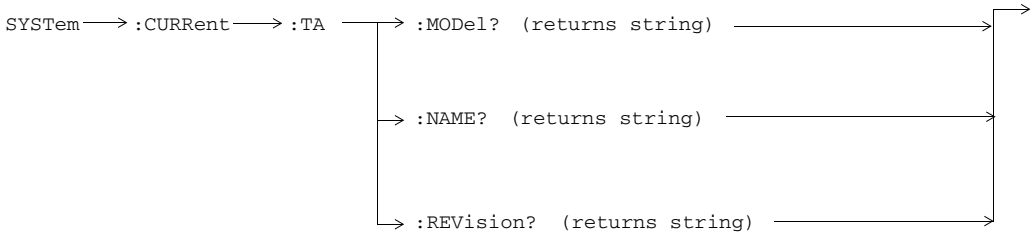
SYSTem:CONFigure



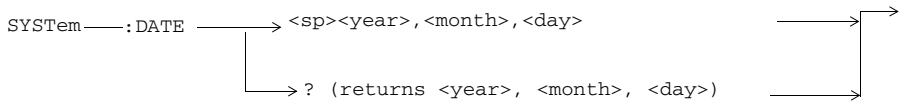
SYSTem:CORRection



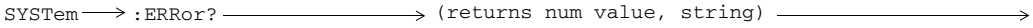
SYSTem:CURRent:TA



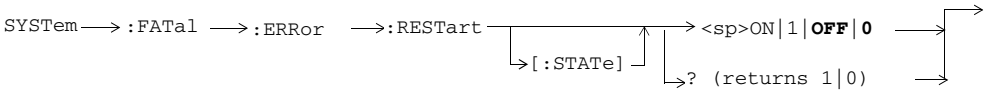
SYSTem:DATE



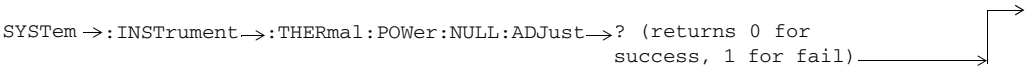
SYSTem:ERRor?



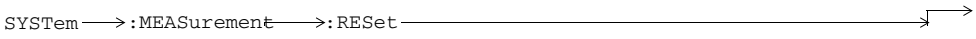
SYSTem:FATal



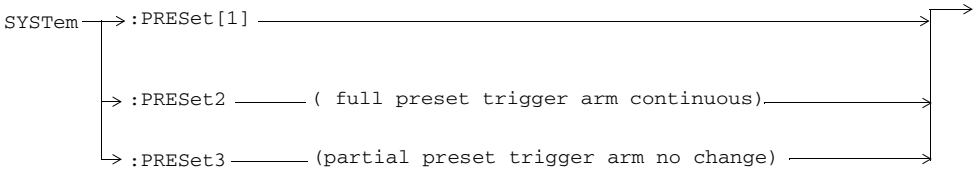
SYSTem:INSTrument



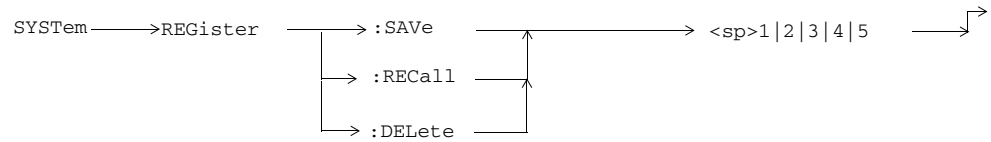
SYSTem:MEASurement:RESet



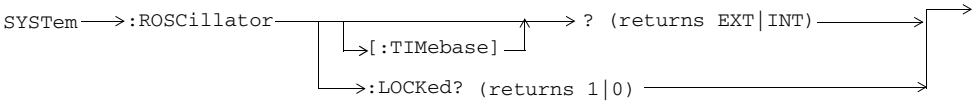
SYSTem:PRESet



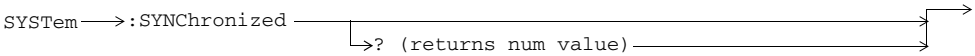
SYSTem:REGister



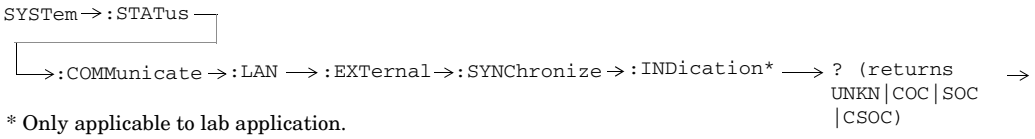
SYSTem:ROSCillator



SYSTem:SYNChronized

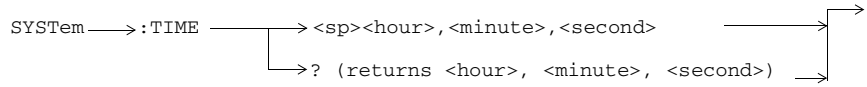


SYSTem:STATus

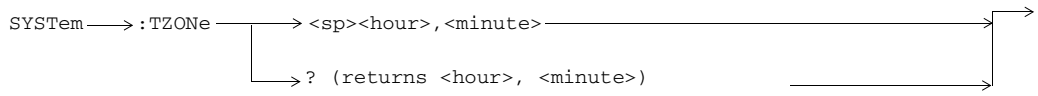


* Only applicable to lab application.

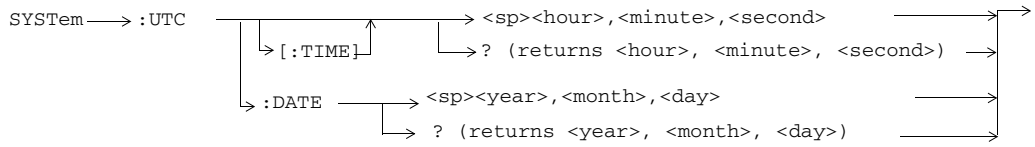
SYSTem:TIME



SYSTem:TZONe



SYSTem:UTC



IEEE 488.2 Common Commands

Description

***CLS** The *CLS, clear status command, is defined in “IEEE Std 488.2-1992”, 10.3. This command will also clear and close the error message screen on the test set’s display.

***ESE** The *ESE, standard event status enable command, is defined in “IEEE Std 488.2-1992”, 10.10.

***ESE?** The *ESE?, standard event status enable query, is defined in “IEEE Std 488.2-1992”, 10.11.

***ESR?** The *ESR?, standard event status register query, is defined in “IEEE Std 488.2-1992 “,10.12.

***IDN?** The *IDN?, identification query, is defined in “IEEE Std 488.2-1992”, 10.14.*IDN? is used to retrieve information about the test set in ASCII format.

*IDN?, returns ASCII codes 32 through 126 excluding comma and semicolon in four comma separated fields. Field 1 returns the manufacturer, field 2 returns the instrument model number, field 3 returns the serial number, field 4 returns 0.

***OPC** The *OPC, operation complete command, is defined in “IEEE 488.2-1992”, 10.18. *OPC causes the test set to continuously sense the No Operation Pending flag. When the No Operation Pending flag becomes TRUE, the OPC event bit in the standard event status register (ESR) is set to indicate that the state of all pending operations is completed. The *OPC common command is not recommended for use as an overlapped command.

***OPC?** The *OPC?, operation complete query, is defined in “IEEE Std 488.2-1992”, 10.19. The *OPC? query allows synchronization between the controller and the test set using either the message available (MAV) bit in the status byte, or a read of the output OPC?. The *OPC? query does not effect the OPC event bit in the Standard Event Status Register (ESR). The *OPC? common command is not recommended for use as an overlapped command.

***OPT?** The *OPT?, option identification query, is defined in “IEEE Std 488.2-1992”, 10.20. Each option will have a unique name, that name will be retuned with the query.

***RST** The *RST, full preset command, is defined in “IEEE Std 488.2-1992”, 10.32. *RST is the recommended command when performing a full preset on the test set. A *RST restores the majority of settings to their default values.

- *RST sets trigger arm to single
- PRESet2 sets trigger arm to continuous

***SRE** The *SRE, service request enable command, is defined in “IEEE Std 488.2-1992”, 10.34. The parameter range for this command is 0 through 255.

***SRE?** The *SRE?, service request enable query, is defined in “IEEE Std 488.2-1992”, 10.35. Values returned by this query range from 0 through 255.

***STB?** The *STB?, read status byte query, is defined in “IEEE Std 488.2-1992”, 10.36. Values returned by this query range from 0 through 255.

***WAI** The *WAI, wait-to-continue command, is defined in “IEEE Std 488.2-1992”, 10.39. The *WAI command prevents the test set from executing any further commands or queries until all pending operation flags are false. The *WAI common command is not recommended for use as an overlapped command.

Index

To find a syntax equivalent for a field on the Test Set's display.

1. Find the field name on the Test Set's display.

2. Look up the name in the alphabetical listing.

3. Turn to the page indicated.

Numerics

-0.885 MHz Offset, 44
0.885 MHz Offset, 44
-1.98 MHz Offset, 44
1.98 MHz Offset, 44
100 Hz BW BPF Center Frequency
  audio analyzer, 60

A

Abort Measurement, 9
Access Probe Power, 43
Ack Channel Gain, 29
ACK R-Data After, 28
Active Cell Operating Mode, 32
Alternate Ping Address, 25
Amplitude, 10
Application Configuration
  Expected Enhanced Access Rate, 36
Application Selection, 78
Application Setup, 78
Application Switch, 78
Application, Revision, License, 78
AT Directed Packets, 14
AT Max Power, 29
Audio Analyzer Setup
  SINAD/Distortion Fundamental Frequency, 60
Audio Frequency, 41
Audio Generator, 10
Audio Generator Coupling, 71
Audio Generator Level, 72
Audio Level, 42
Audio Out Port, 79
Auxiliary Pilot Channel Gain, 29
Auxiliary Pilot Channel Min Payload, 29
AWGN Power, 16, 36
AWGN Power State, 36

B

Band, 16
Band Pass Filter Frequency
  FM, 60
Beeper State, 79

C

Cal. Burst Mod Offset 1, 11
Cal. first IQ Modulator, 11
Cal. second IQ Modulator, 11
Calibrate Channel Power, 11
Calibrate Digital Avg Pwr, 11
Call Drop Timer, 18
Call Limit Mode, 18
Carrier Feedthrough, 45
CDMA System Time Information, 37
Cell Band, 16
Cell Band, Handoff, 34
Cell Channel, 17
Cell Power, 33, 36
Cell Power State, 36
Channel, 17
Channel Power, 44
Channel, Handoff, 34
Close Session, 34
Code Domain Power, 46
Code Domain Power + Noise, 48
Color Code, 17
Continuous, 59
Control Channel Data Rate, 17
Corrupted Bursts, 19, 23
Country Code, 28
Coupling, 10
Current Physical Layer Subtype, 37
Current System Type, 36
CW Operating Mode, 32

D

Data Connection State, 27
Data Connection State Change Detector, 27
Data Connection State Change Detector Timeout, 27
Data Connection Status, 36
Data Offset 153k6, 29
Data Offset 19k2, 29
Data Offset 38k4, 29
Data Offset 76k8, 29
Data Offset 9k6, 29
Data Offset Nom, 29
Data Throughout Monitor, 23
Date (yyyy.mm.dd), 81
Decode Errors, 19, 23
De-Emphasis State
  audio analyzer, 59
Default Gateway, 79
DELETE hardkey, 82
Detector Type, 71
  Peak (audio analyzer), 60
  RMS (audio analyzer), 60
Device Settling Time, 72
Device to Ping, 25
Digital Average Power, 45
Display Brightness, 40
Display Mode, 40
Distortion
  audio, 41
  Swept Audio, 50
DRC Channel Gain, 29
DRC Value Fixed Mode Attribute, 14
DSC Channel Gain, 29
DSC Length, 29
DUT IP Address, 29

E

Eb/Nt, 37
End Data Connection, 27
Enhanced Access Rate, 14
Enhanced Test Application Protocol, 14
EVM, 45
Execute Handoff, 27
Expandor Reference Level
  audio analyzer, 60
Expected CW Power, 57
Expected Peak Voltage, 71
Expected Power
  DIGital856, 57
Expected Reverse Data Channel Info
  Packet Size, 36
  T2P Transition, 37
  Transmission Mode, 36
  TxT2P Post-Transition, 37
  TxT2P Pre-Transition, 37
External Trigger Type, 39
ExtRef, 82

F

Filter Type, 71
  100 Hz BW BPF (audio analyzer), 60
  300 Hz to 15 kHz (audio analyzer), 60
  50 Hz to 15 kHz (audio analyzer), 60
  C-Message (audio analyzer), 60
  None (audio analyzer), 60
FM Demodulation Setup
  Bandpass Filter State, 79

Index

Deemphasis State, 79
Expandor State, 79
Force Dormant, 27
Frequency, 10
Frequency (MHz)
amplitude offset, 80
Frequency Band, 16
Frequency Error, 45
FTAP Rate, 14
F-Traffic Config, 14
F-Traffic Format, 14
FULL (preset) key, 76

G

gotolink SEL, 6
GPIB Address, 79

H

Handoff, 27
Handoff Cell Band, 34
Handoff Channel, 34
Hardware ID (Decimal), 29
Hardware ID (Hex), 29
Hardware ID Type (Hex), 29
H-ARQ Modulation, 28
H-ARQ/L-ARQ Channel Level, 28

I

Idle State, 28
Initiate Measurements, 54
Instrument Information
Test Application, 80
IntRef, 82

L

LAN IP Address, 79
Last Calibration, 11
Limited TAP, GPIB Command, 14

M

MAC Index, 37
Magnitude Error, 45
Maskable Message Display State, 40, 79
Max Forward Packet Duration, 14
Max Frames Allowed for Assignment, 19, 23
MCC, 28
Meas Frequency, 57
Measurement Frequency, 57
Measurement Frequency Control, 57
MEASUREMENT RESET key, 81
Measurement Speed
Channel Power, 66
Measurement Timeout
Access Probe Power, 61
audio analyzer, 60
Channel Power, 65, 66
Digital Average Power, 68, 70
Graphical Access Probe Power, 70
Swept Audio, 72
TX Spurious Emissions, 67
Message Log, 81
Missing Bursts, 19, 23
Mobile Country Code, 28
Multi-Measurement Count
audio analyzer, 59
Channel Power, 65, 66
Digital Average Power, 68
Swept Audio, 71
TX Spurious Emisssions, 67

N

Number
amplitude offset, 80
Number of Points, 71

O

Offset (dB)
amplitude offset, 80
Open Loop Adjust, 13
Operating Mode, 32

P

Packet Error Count, 43
Packet Error Rate Confidence Level, 64
Packet Error Rate Confidence Pass/Fail, 43
Packet Error Rate Integrity, 43
Packet Error Rate Maximum Packet Count, 64
Packet Error Rate Measurement Results, 43
Packet Error Rate Requirement, 64
Packet Loss, 25
Packets Received, 25
Packets Tested, 43
Packets Transmitted, 25
Pages, 19, 23
P-ARQ Channel Level, 28
Phase Error, 45
Pilot Drop, 29
Ping, 25
Ping Count, 25
Ping Setup
Alternate Ping Address, 25
Device to Ping, 25
Ping Count, 25
Ping Timeout, 25
Ping Timeout, 25
PN Offset, 33
power control
reverse link, 18
reverse link step size, 18
Power Parameters, T2P Transition, 30
Power Parameters, Termination Target, 30
Power Parameters, TxT2P Post-Transition, 30
Power Parameters, TxT2P Pre-Transition, 30
Preamble Length, 13
Preferred Control Channel Cycle, 17
Preferred Control Channel Cycle Mode, 18
PRESET key, 76
Probe Initial Adjust, 13
Probe Num Step, 13
Probe Power Step, 13
Probe Sequence Max, 13
Protocol Logging, 32
Protocol Rev, 33
Pulse, 10
Pwr Ctrl Size, 18

R

RACHs, 19, 23
Rate 1M8 Supported Control, 18
Rcvr Power Ctrl, 57
Read Measurement, 56
Receiver Power, 57
Receiver Power Control, 57
Register reacall hardkey, 82
Release A Access Channel MAC Subtype, 33
Release A Physical Layer Subtype, 33
Rev, License, 78
reverse power control, 18
RF Gen Freq Ctrl, 18
RF Generator Frequency, 34
RF IN/OUT Amplitude Offset State, 80
RF IN/OUT Amptd Offset, 80
RF IN/OUT Amptd Offset Setup, 80
RF Output Port, 58
Rho, 45
Round Trip (ms) min/avg/max, 25
RPC Channel Level, 28
RRI Gain Parameters, 29
RTAP Rate, 14

Index

Rvs Power Ctrl, 18

S

SAVE hardkey, 82
Sector ID, 32
Session Application Type, 14
Session Open State, 35
Session Seed, 29
Short Packets Enabled Threshold, 14
SINAD, 42
  Swept Audio, 50
SINAD/Distortion Fundamental Frequency
  audio analyzer, 60
SINAD/Distortion State, 72
  audio analyzer, 60
Single, 59
Slots to Measure, 69
Start Data Connection, 27
Start Frequency, 71
Start Ping, 25
step size
  reverse link power control, 18
Stop Frequency, 71
Stop Ping, 25
Subnet Mask, 32, 79
Summary Results
  Packet Loss, 25
  Packets Received, 25
  Packets Transmitted, 25
  Round Trip (ms) min/avg/max, 25
Swept Audio, 50

T

Test Application (instrument information), 80
Test Application Protocol, 14
Test Mode Forward Traffic Rate, 38
Test mode MAC Index, 38
Test Signal, 39
Thermal Power Null Adjust, 81
Time (hh.mm), 82
Time Error, 45
Time Zone (hh.mm), 83
Total RF Power, 37, 39
Total RF Power State, 37
Trigger, 39
Trigger Arm, 59
  Access Probe Power, 61
  audio analyzer, 59
  Channel Power, 65, 66
  Digital Average Power, 68, 70
  Graphical Access Probe Power, 70
  Swept Audio, 71
  TX Spurious Emissions, 67
TX Spurious Emissions, 44

U

UATI 24, 37
UATI Color Code, 37
Universal Coordinated Time (UTC), 83
Universal Coordinated Time (UTC) Date, 83
Uplink Frequency, 57

W

Waveform Quality + Code Domain, 45