

GPIB Command Syntax
for

E1962B cdma2000 Mobile Test Application Revision B.02

1000-1808



Agilent Technologies

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Diagram Conventions

Description

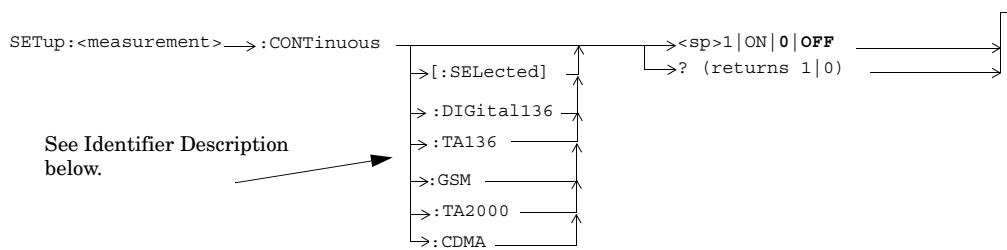
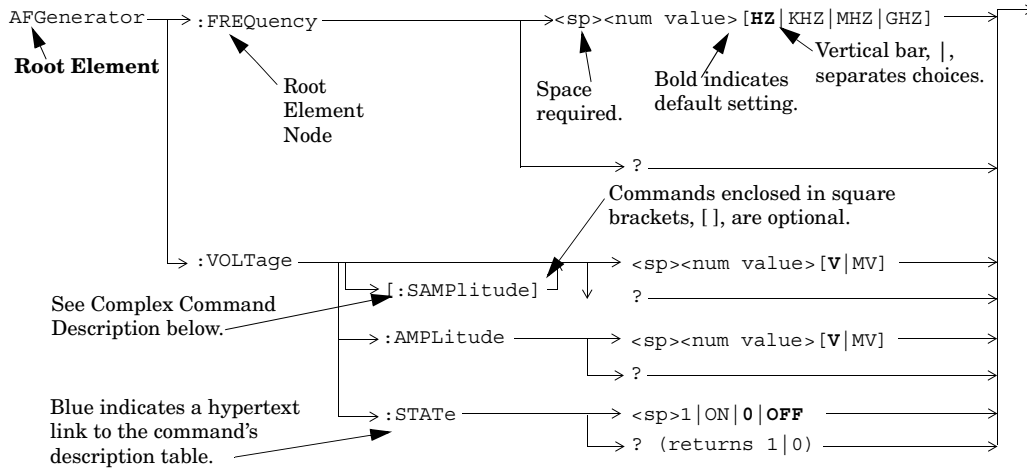


Diagram Description

Statement elements 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 statement elements that can be generated by starting at the **Root Element** and following the line the **direction of the arrow** is syntactically correct. The drawings show the proper use of spaces. Where spaces are required they are indicated by **<sp>**, otherwise no spaces are allowed between statement elements.

Diagram Conventions

Complex Command Description

A complex command sets the state of the parameter to ON, and is used to set a value for that parameter. These parameters; amplitude, frequency, gain, number, time, and value can be used as a complex command. Refer to the specific command for the parameter that applies.

Identifier Description

Some test applications are able to test more than one radio format. There may be commands/queries that are shared by more than one radio format in the some of these test applications. Identifiers are used to specify the radio format for the command/query. The command/query is sent to the active radio format if you don't use an identifier. An identifier must be used when sending commands to the inactive radio format.

Developing Code

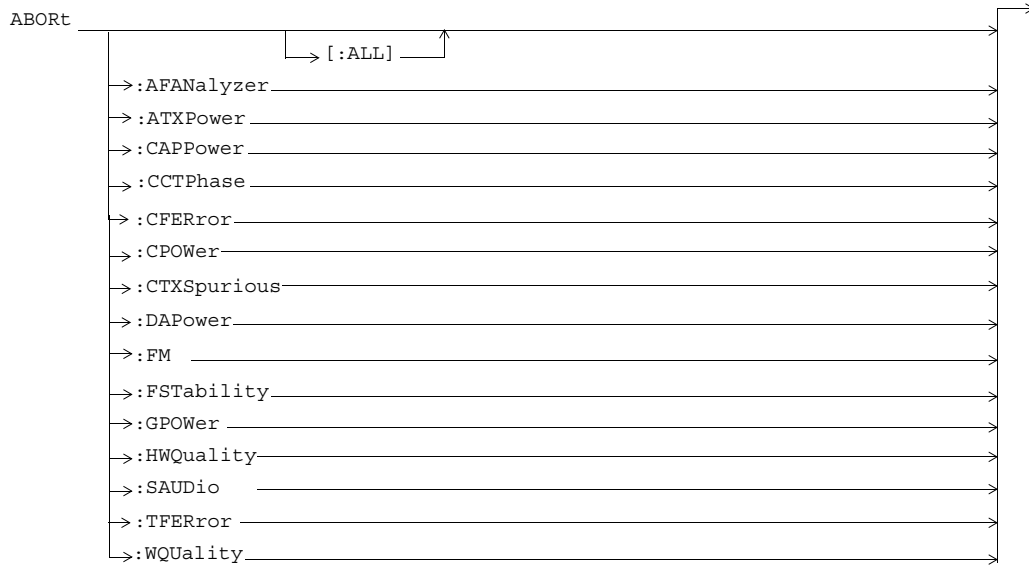
It is recommended that you set the Test Set's operating environment to debug. To set the Test Set debug mode to "ON" use the following syntax:

```
SYSTem:COMMunicate:GPiB:DEBUg ON
```

Units-of-Measure

Amplitude (linear)	V
Frequency	Hz
Power (logarithmic)	dBm
Time	s

ABORt



AFGenerator

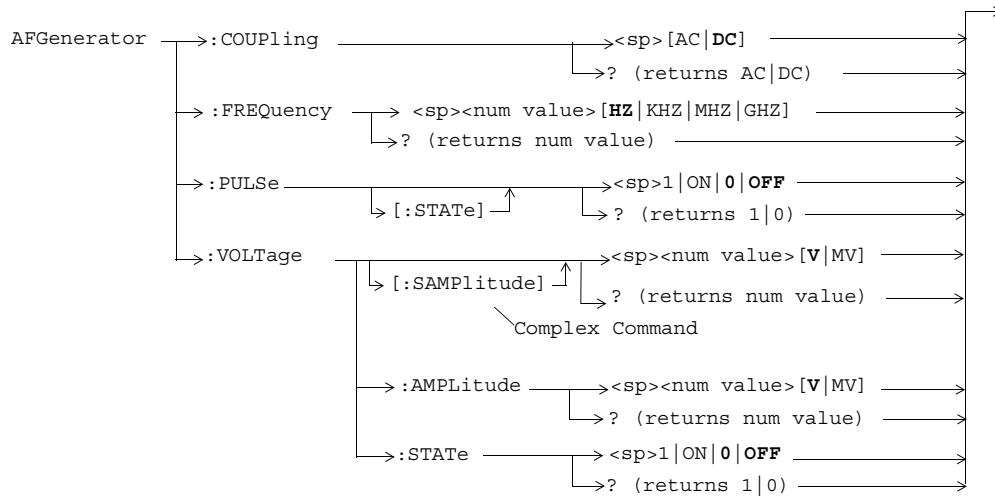
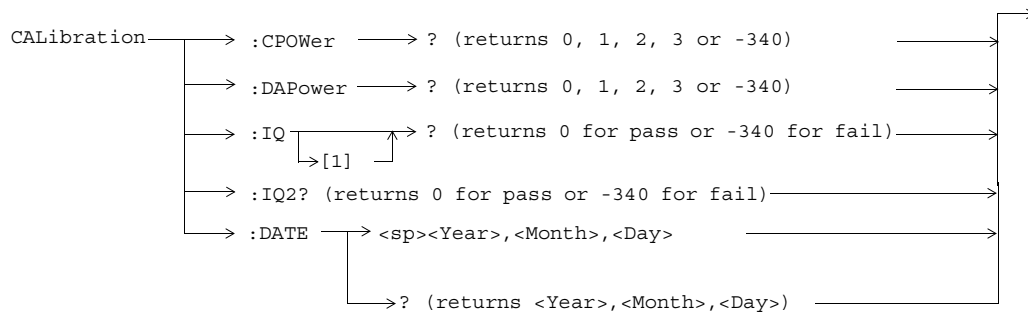
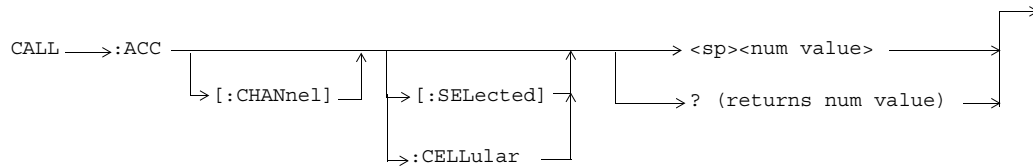


Diagram Conventions

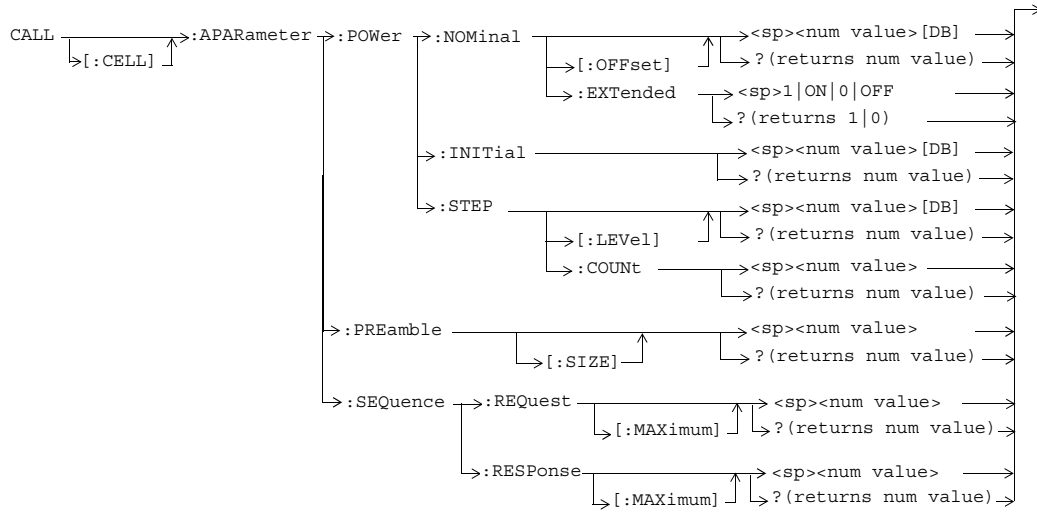
CALibration



CALL:ACC



CALL[:CELL]:APARAmeter



CALL:AVCTest

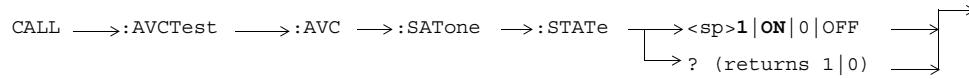
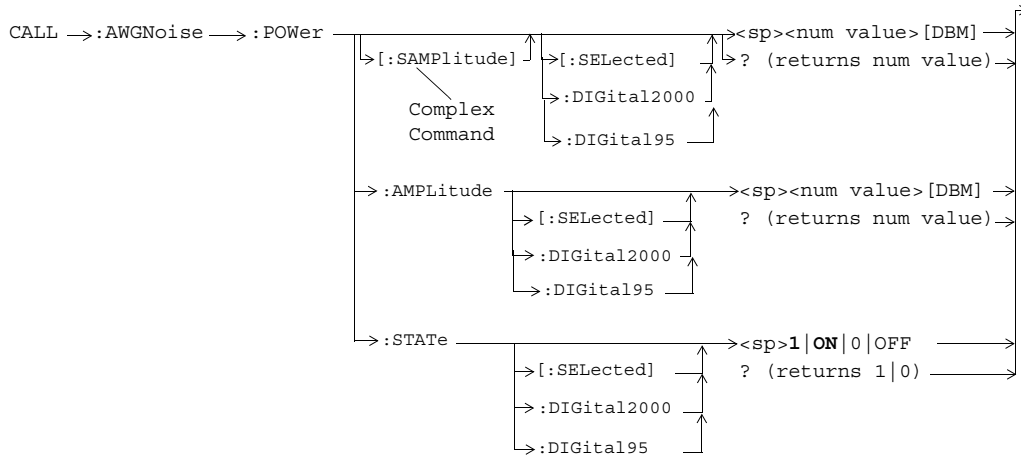
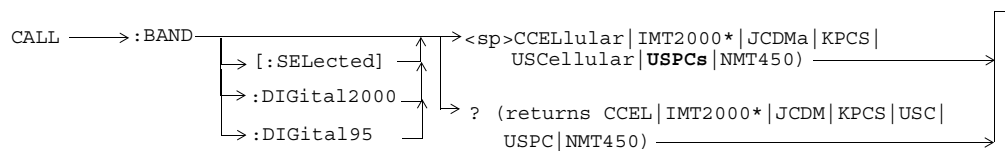


Diagram Conventions

CALL:AWGNoise:POWer

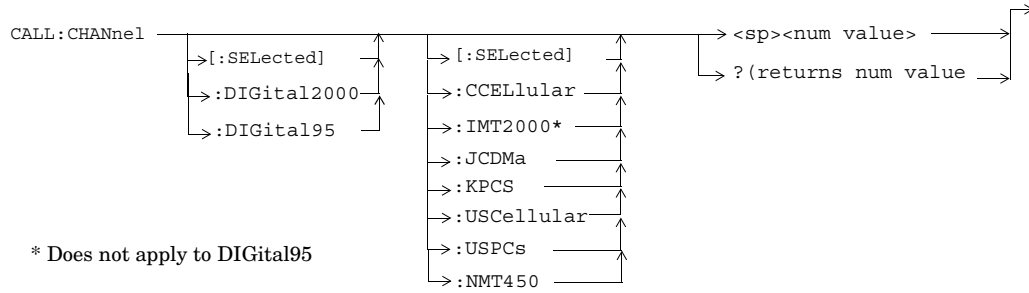


CALL:BAND



* Does not apply to DIGital95

CALL:CHANnel



CALL[:CELL]:CLPControl

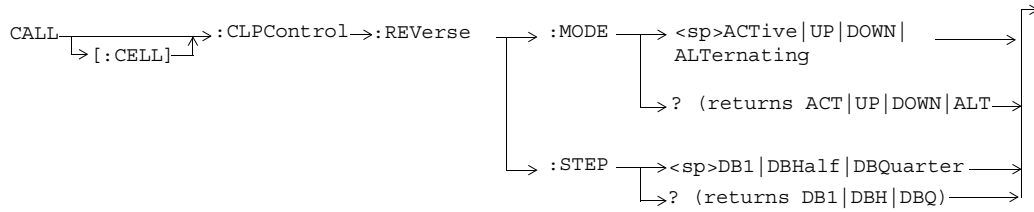
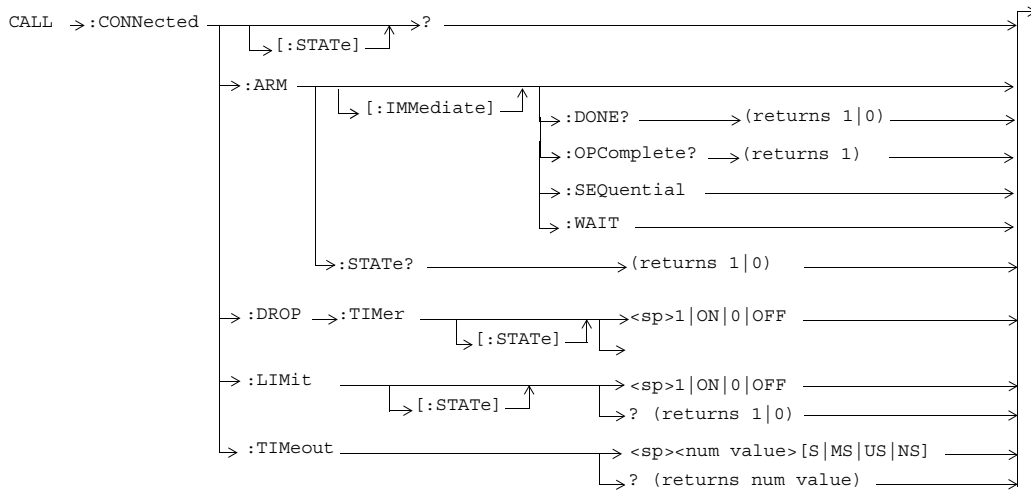
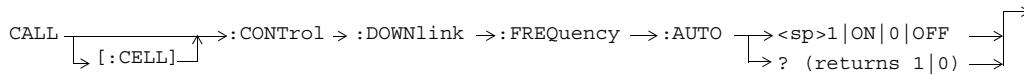


Diagram Conventions

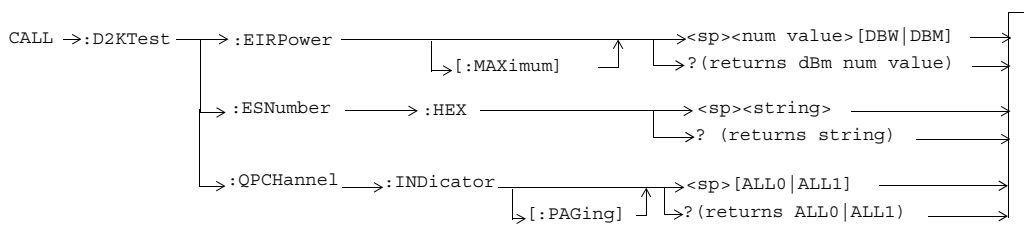
CALL:CONNEcted[:STATe]



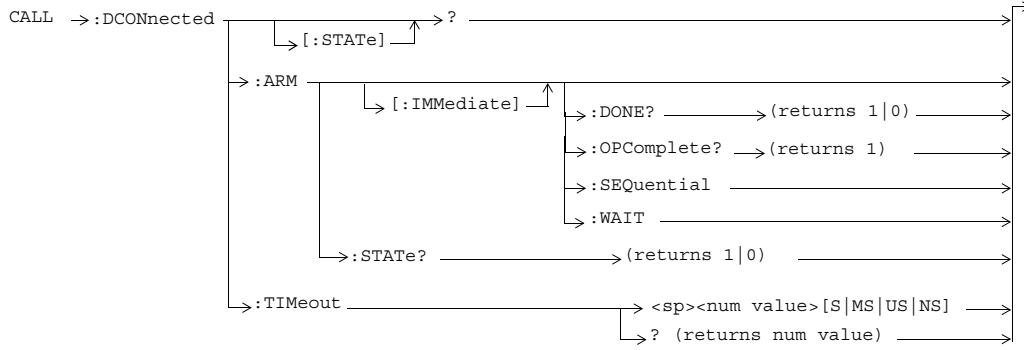
CALL[:CELL]:CONTRol:DOWNlink:FREQuency:AUTO



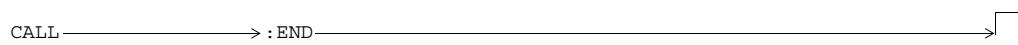
CALL:D2KTest



CALL:DCONnected[:STATe]



CALL:END



CALL[:CELL]:ESCape[:MODE]

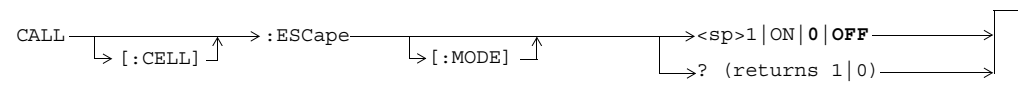
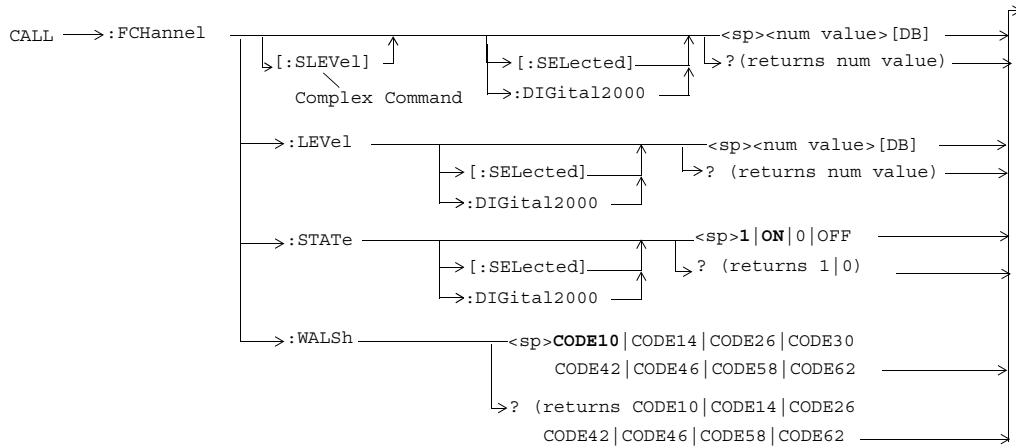
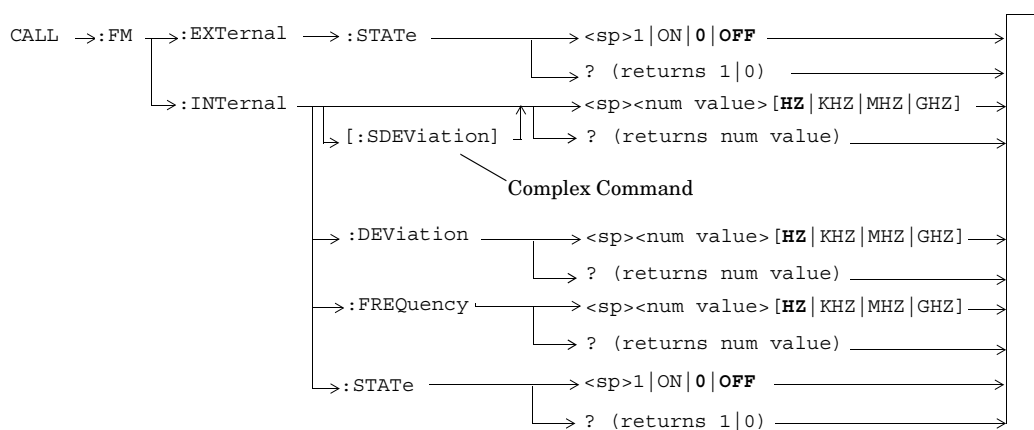


Diagram Conventions

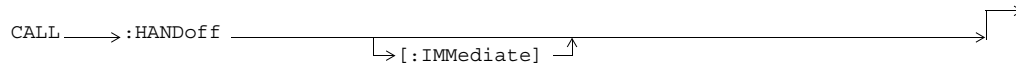
CALL:FCHannel



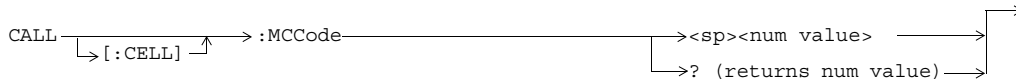
CALL:FM



CALL:HANDoff



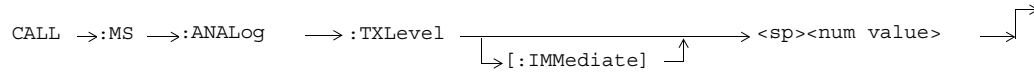
CALL[:CELL]:MCCCode



CALL[:CELL]:MNCCode



CALL:MS:ANALog



CALL:MS:REPorted:<BCL,BWT>

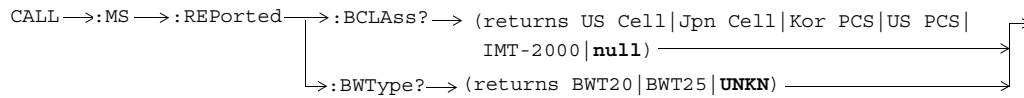
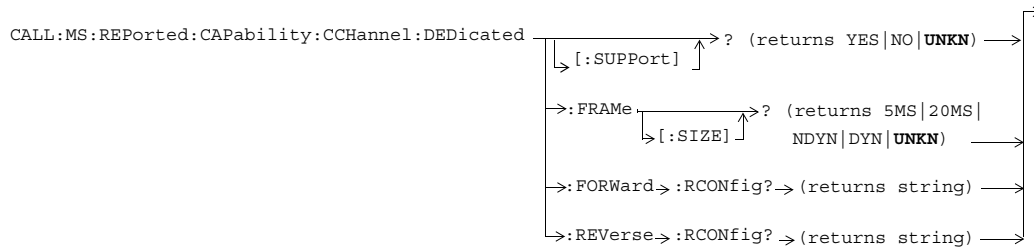
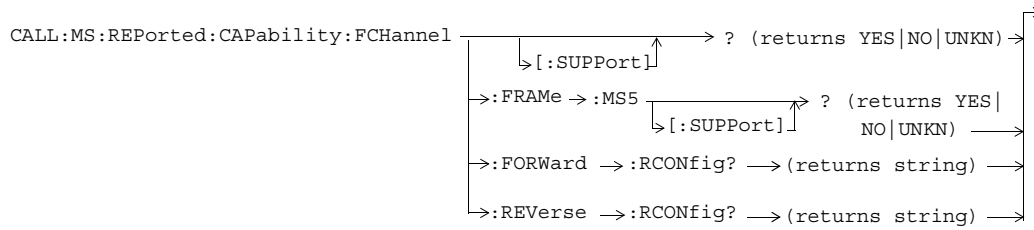


Diagram Conventions

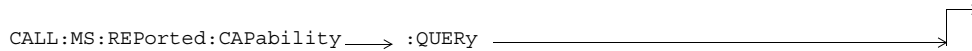
CALL:MS:REPorted:CAPability:CCHannel:DEDicated



CALL:MS:REPorted:CAPability:FCHannel



CALL:MS:REPorted:CAPability:QUERy



CALL:MS:REPorted:CAPability:SCHannel:FORward

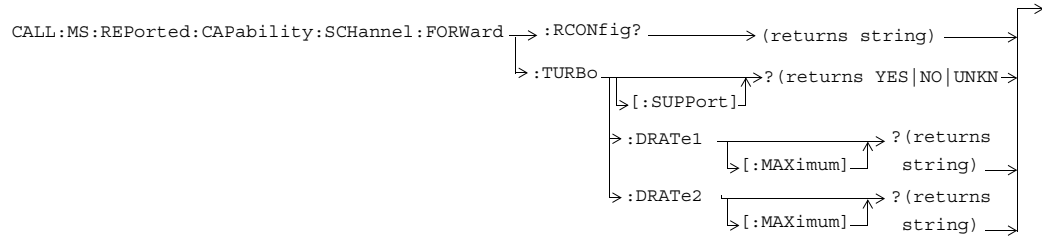
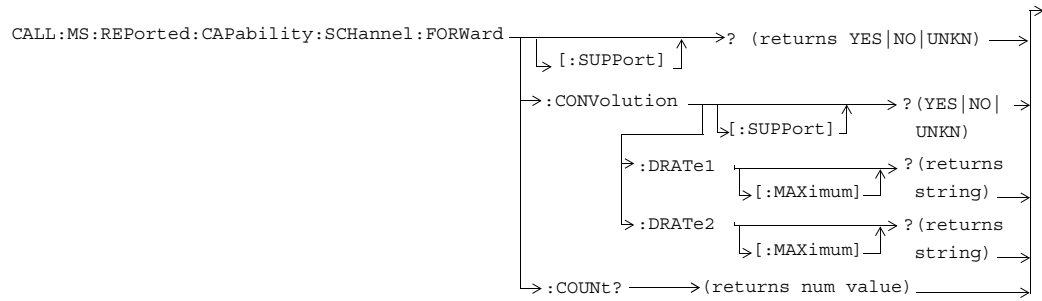
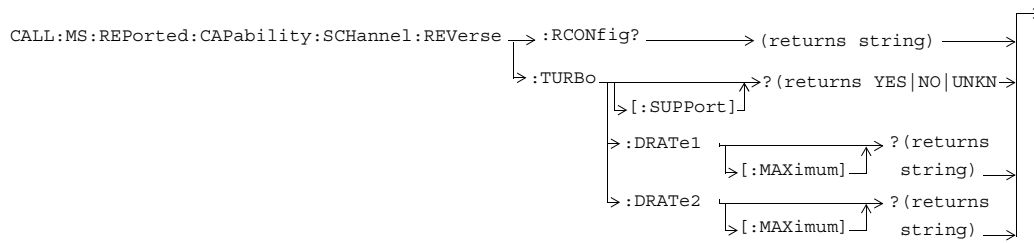
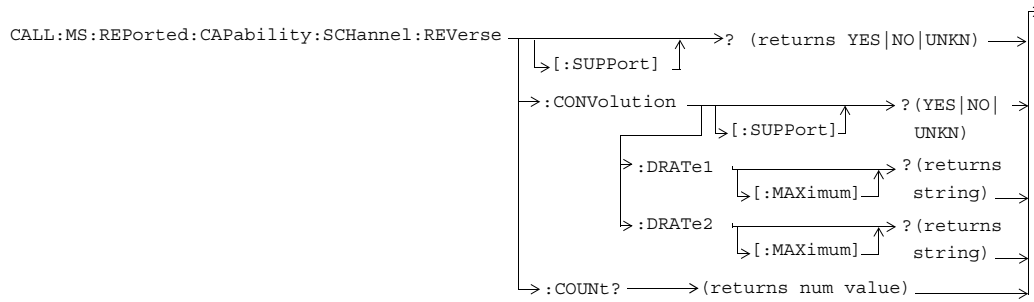
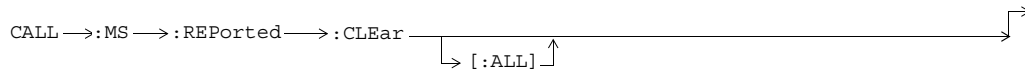


Diagram Conventions

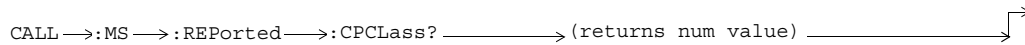
CALL:MS:REPorted:CAPability:SCHannel:REVerse



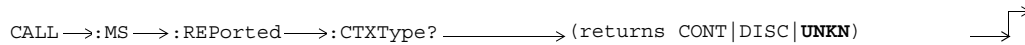
CALL:MS:REPorted:CLEar



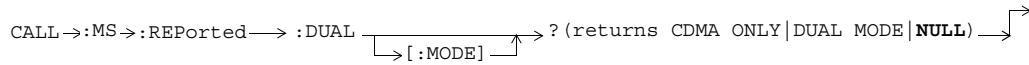
CALL:MS:REPorted:CPClass



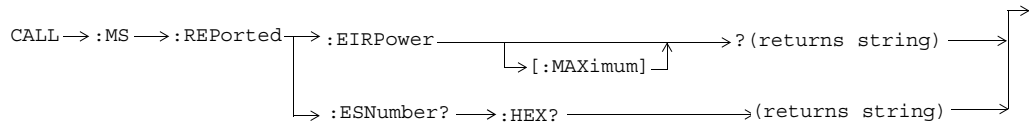
CALL:MS:REPorted:CTXType



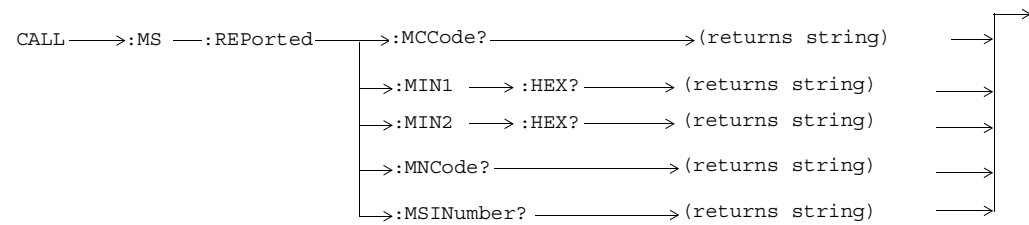
CALL:MS:REPorted:DUAL[:MODE]



CALL:MS:REPorted:<EIRP,ESN>



CALL:MS:REPorted:<MCC,MIN1,MIN2,MNC,MSIN>



CALL:MS:REPorted:<ONUM,OPER,PCL,PCON,PNUM,PREV,QPCH>

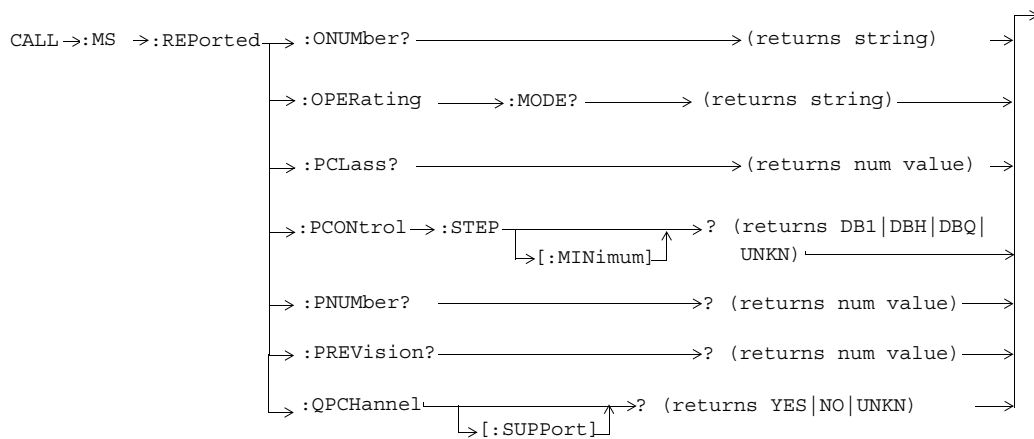
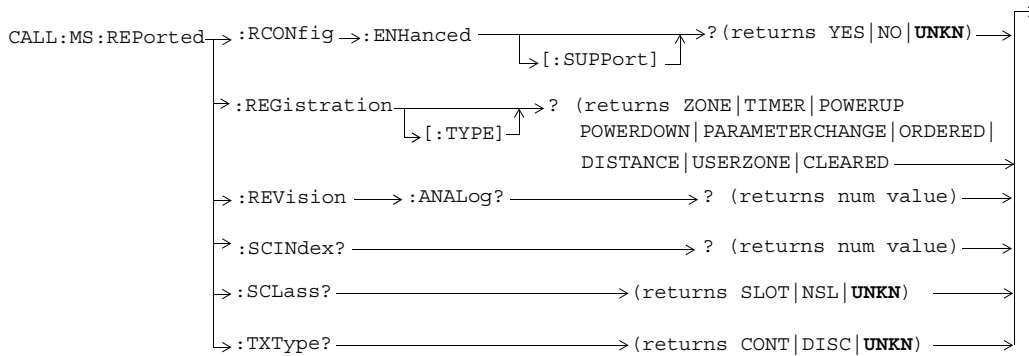
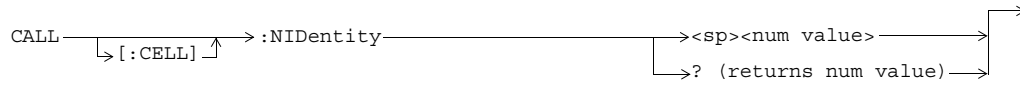


Diagram Conventions

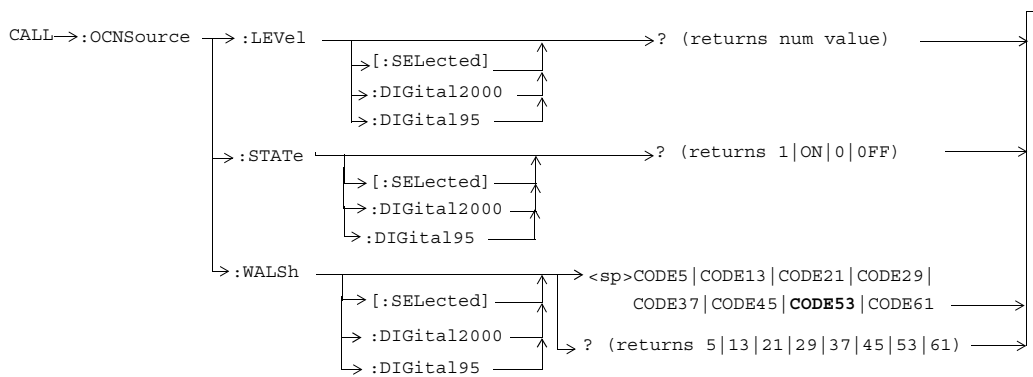
CALL:MS:REPorted:<RCON,REG,REV,SCIN,SCL,TXT>



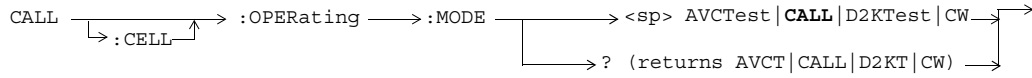
CALL[:CELL]:NIDentity



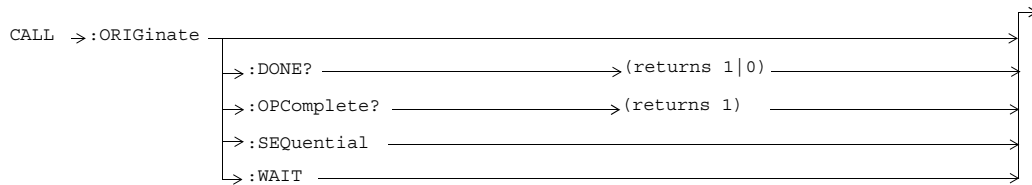
CALL:OCNSource



CALL[:CELL]:OPERating



CALL:ORIGinate



CALL:ORIGinate

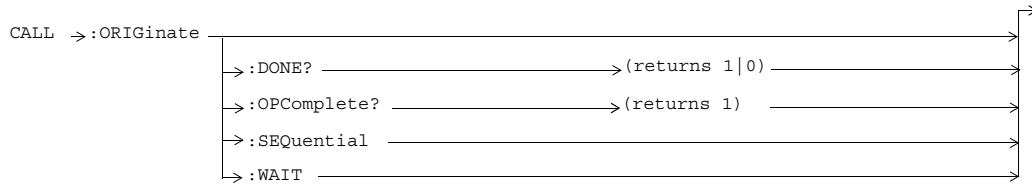
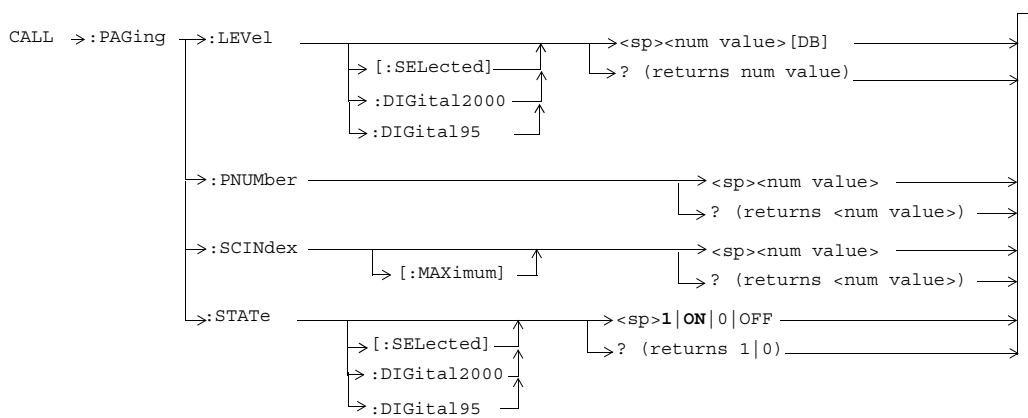
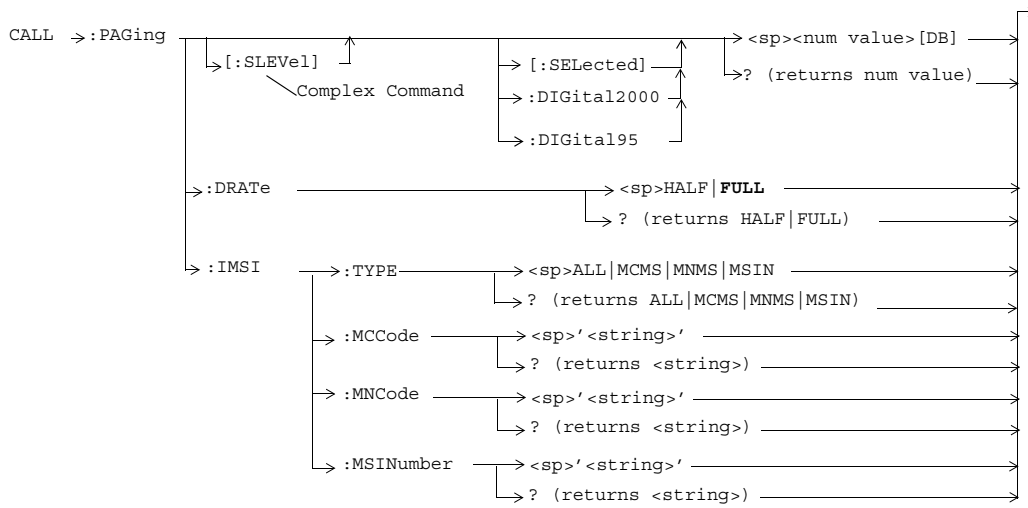
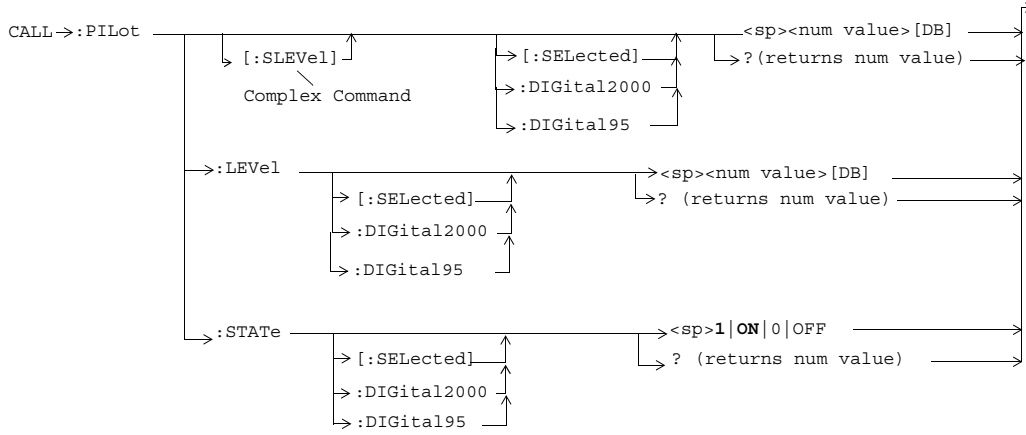


Diagram Conventions

CALL:PAGing



CALL:PILot



CALL[:CELL]:PNOffset

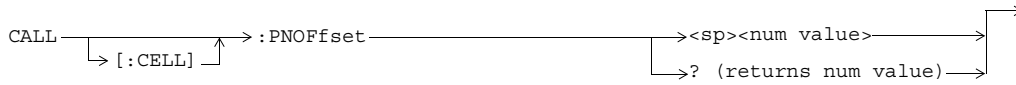
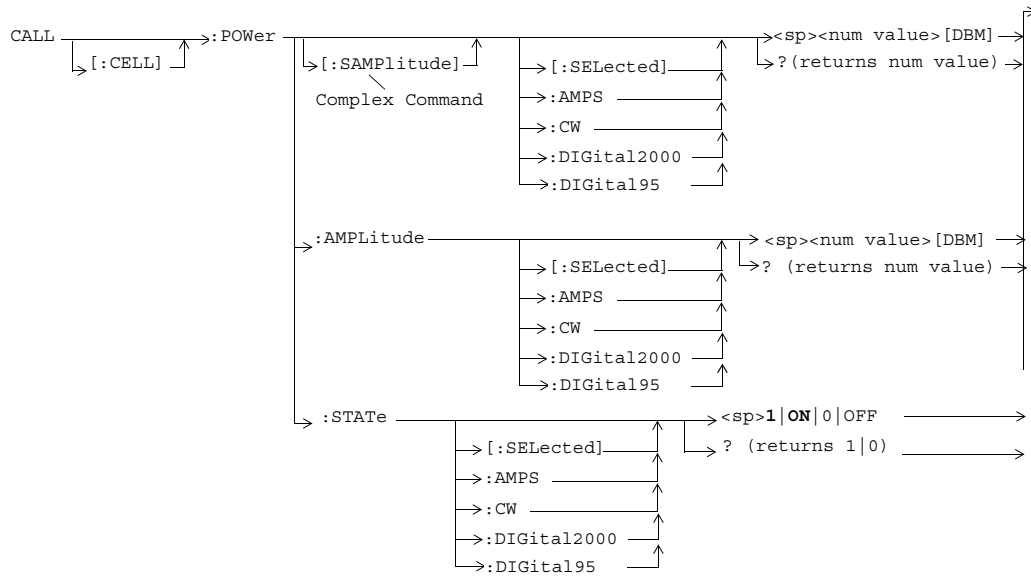


Diagram Conventions

CALL[:CELL]:POWer



CALL[:CELL]:PROTOcol

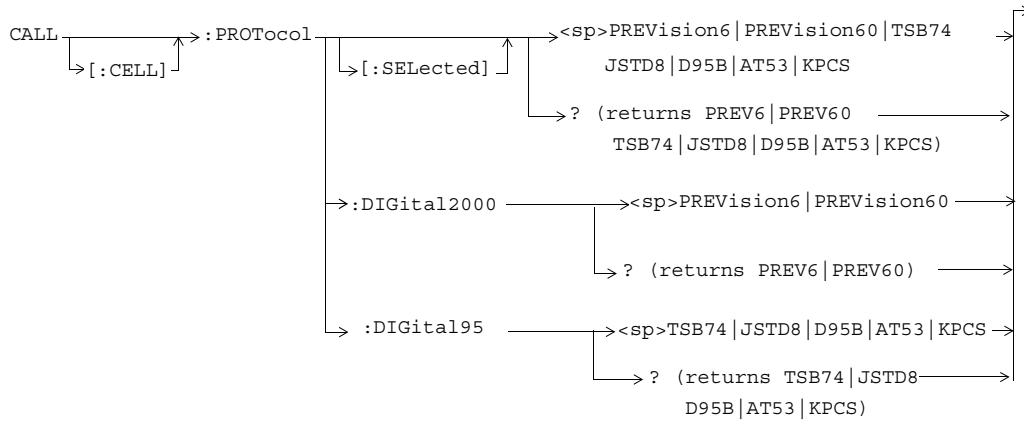
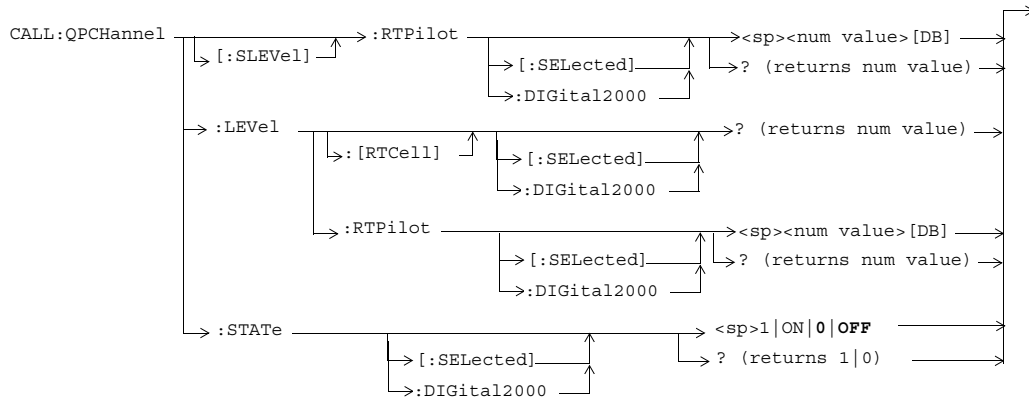
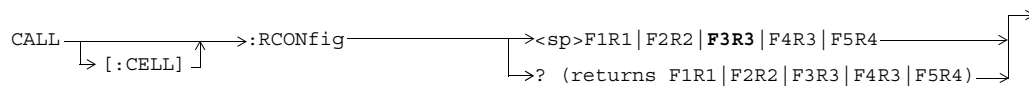


Diagram Conventions

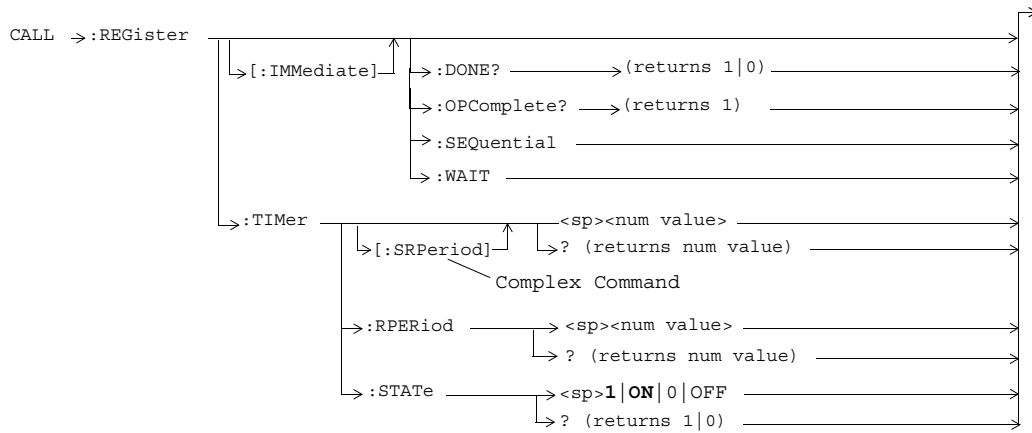
CALL:QPCHannel



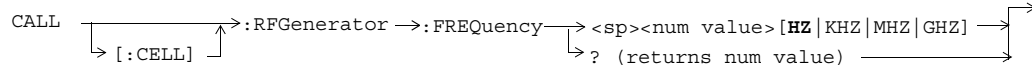
CALL[:CELL]:RCONfig



CALL:REGister



CALL[:CELL]:RFGenerator



CALL[:CELL]:RLGain

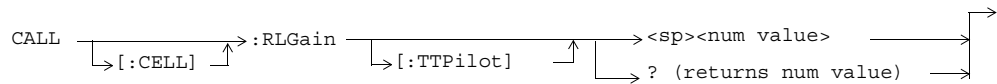
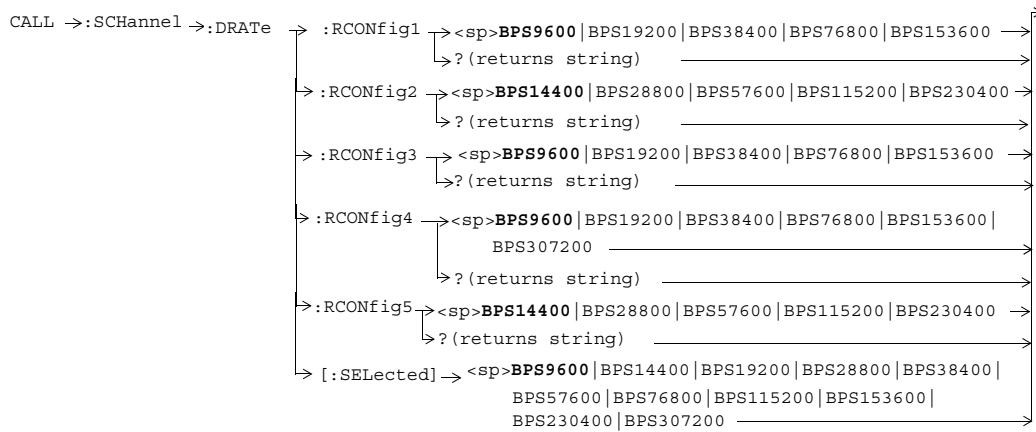
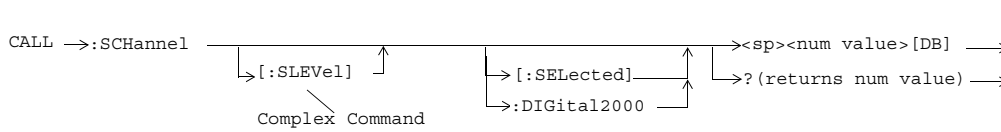
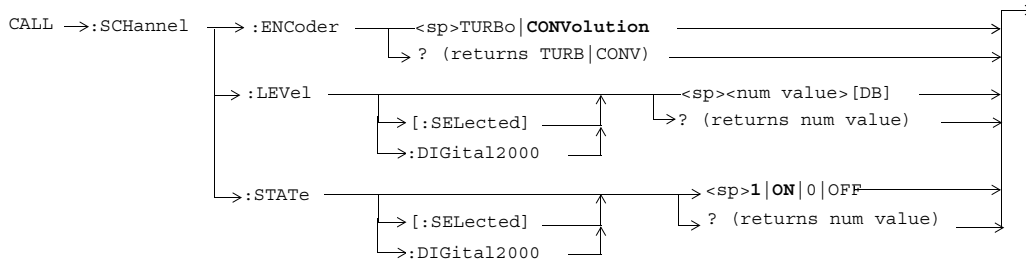


Diagram Conventions

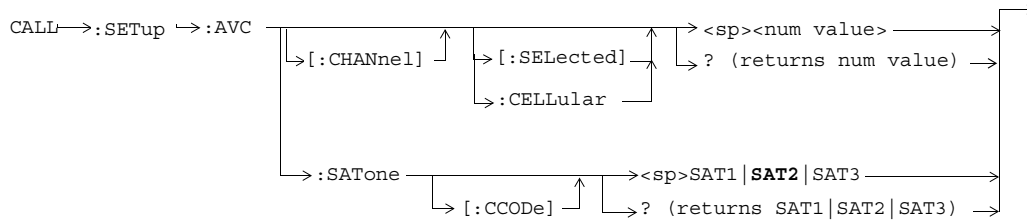
CALL:SCHannel



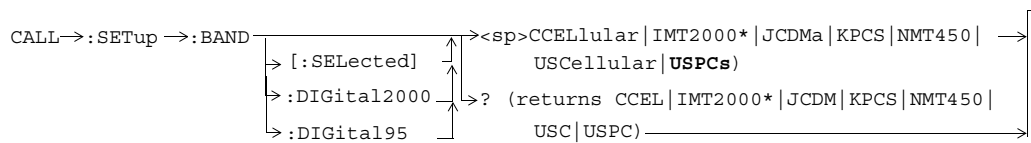
Note: Data rates used with the SELEcted keyword must be compatible with the currently selected radio configuration. If a data rate that does not belong to the selected radio configuration's rate set is used, an error message will be generated.



CALL:SETup:AVC

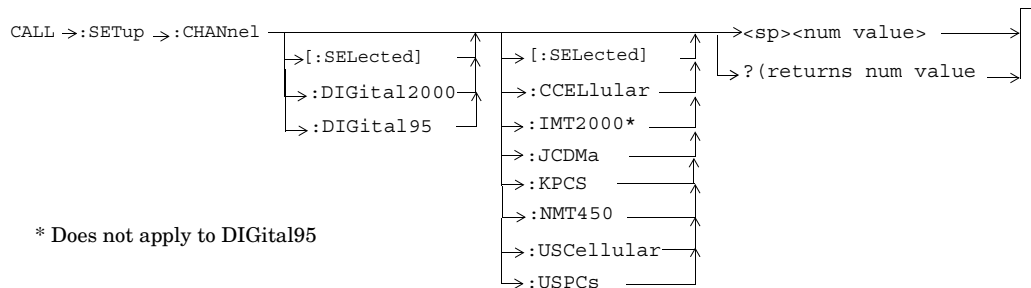


CALL:SETup:BAND



* Does not apply to DIGital95

CALL:SETup:CHANnel



* Does not apply to DIGital95

CALL:SETup:HANDoff

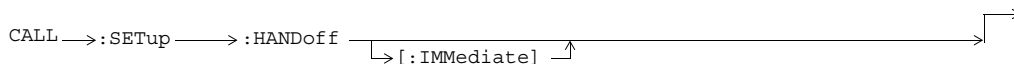
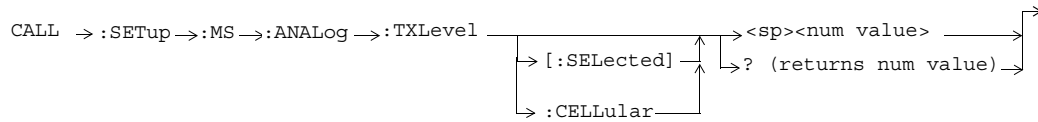
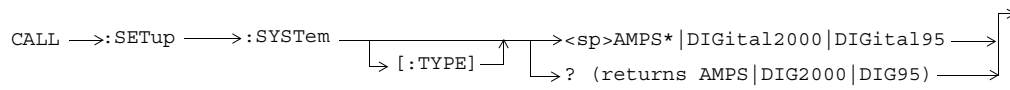


Diagram Conventions

CALL:SETup:MS:ANALog

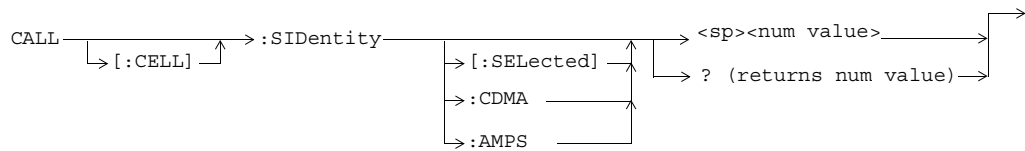


CALL:SETup:SYSTEM

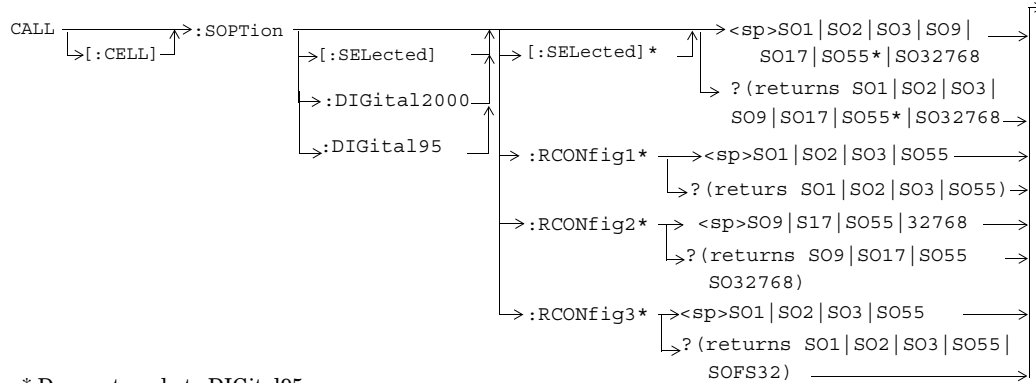


* If the active system type is AMPS, handoffs to other system types are not allowed.

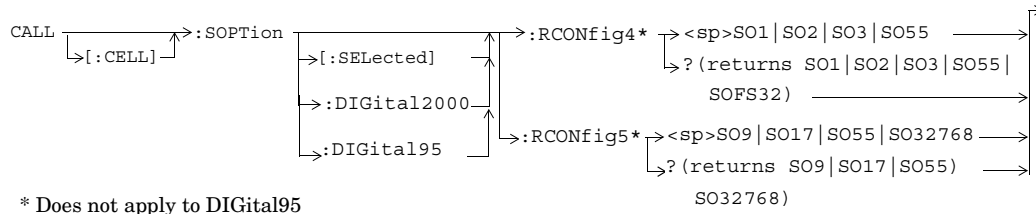
CALL[:CELL]:SIDentity



CALL[:CELL]:SOPTION



* Does not apply to DIGital95



* Does not apply to DIGital95

Diagram Conventions

CALL:STATus

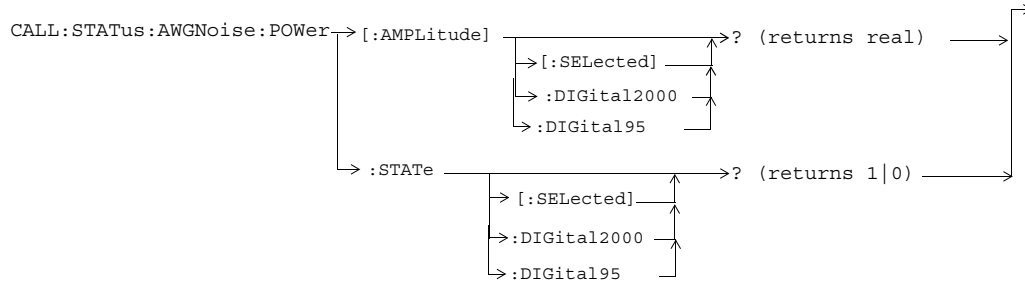
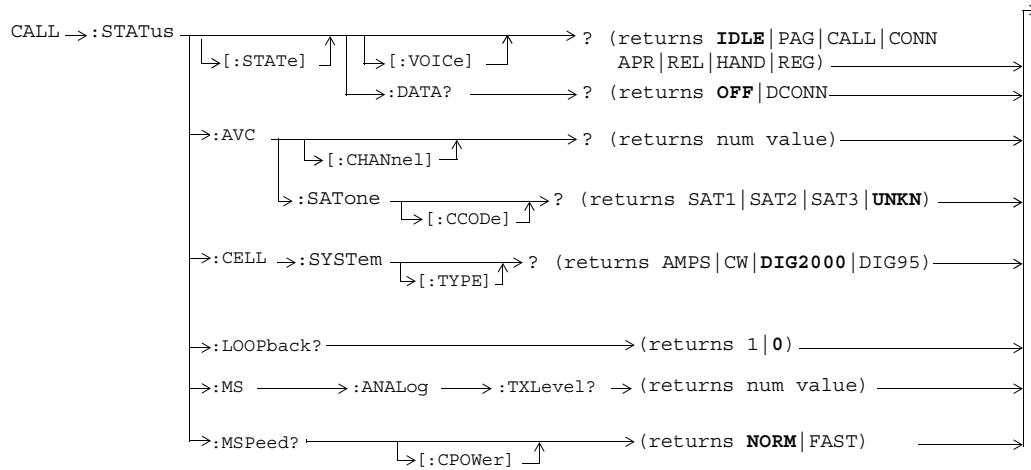


Diagram Conventions

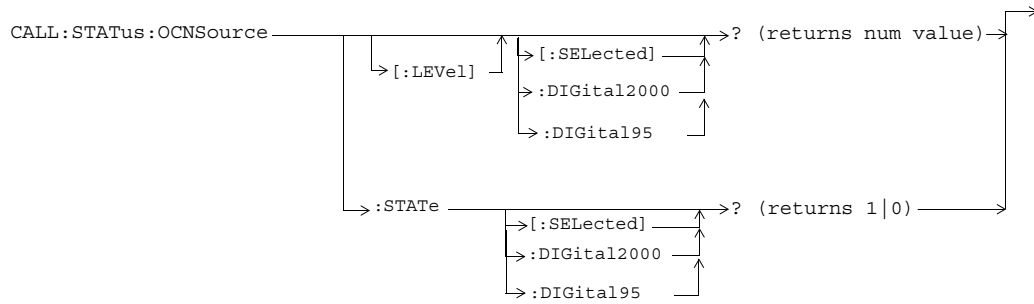
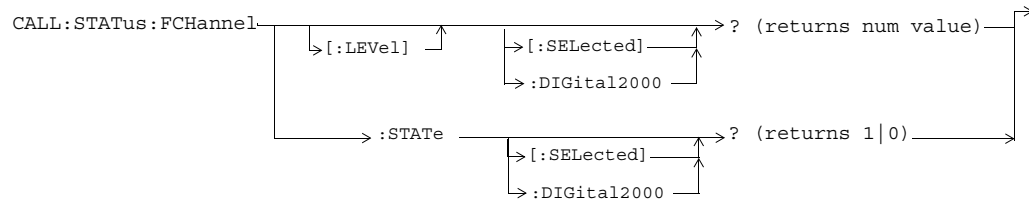
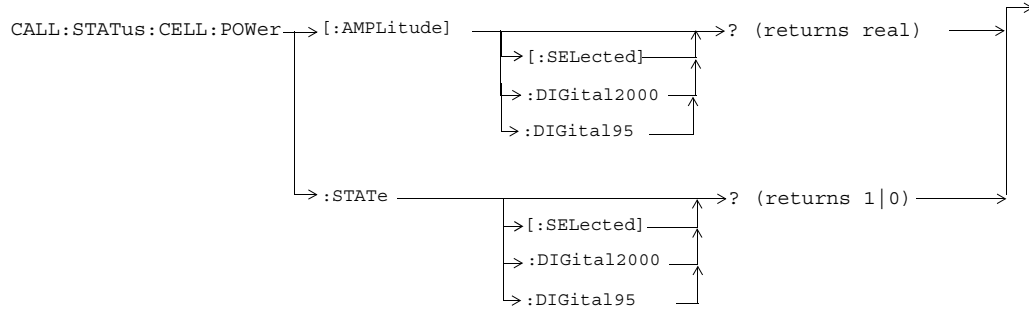


Diagram Conventions

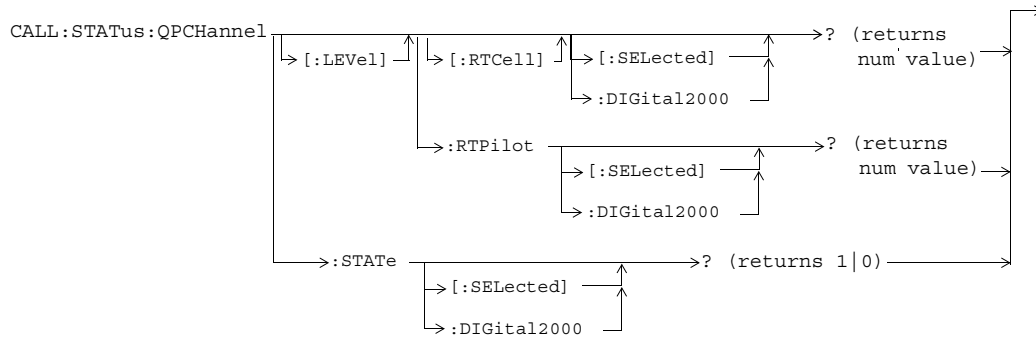
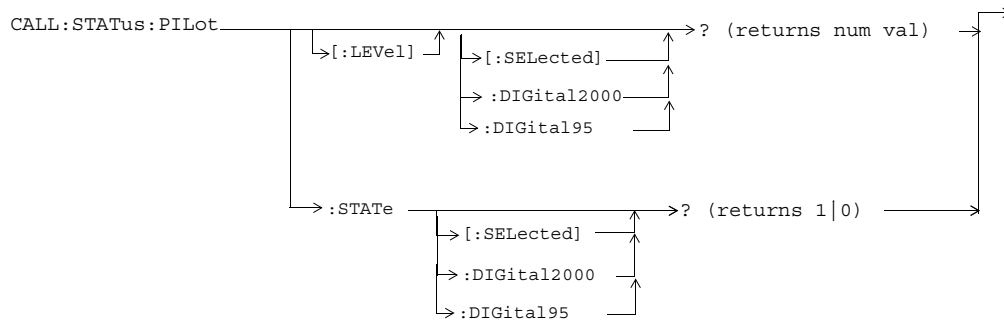
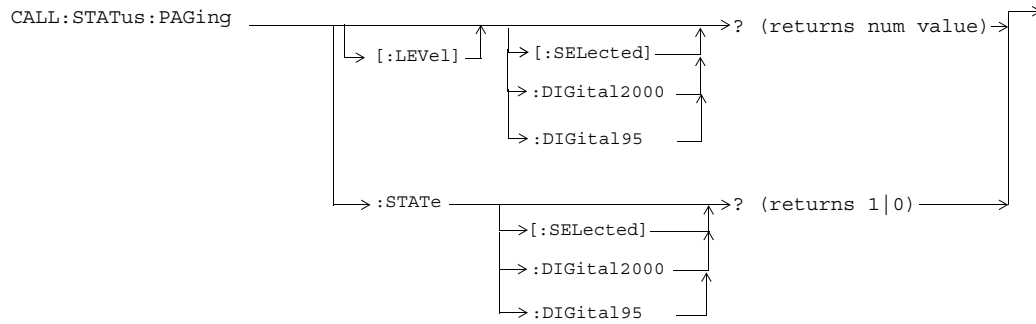


Diagram Conventions

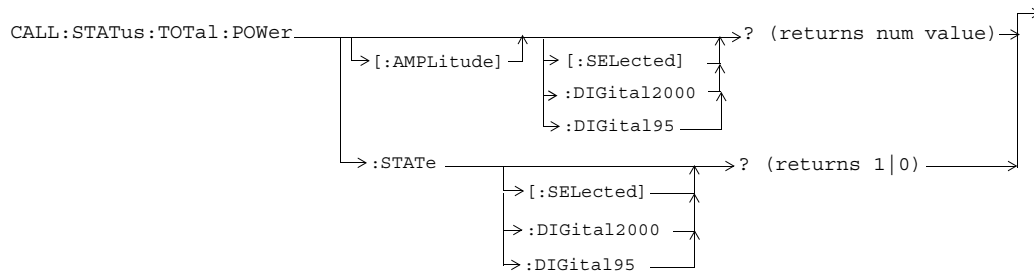
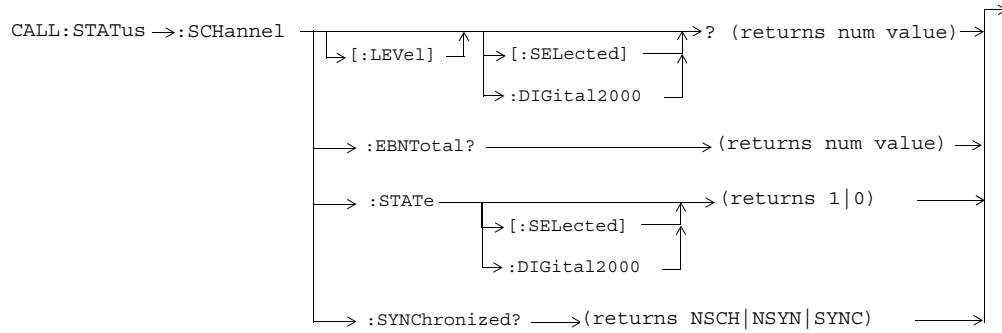
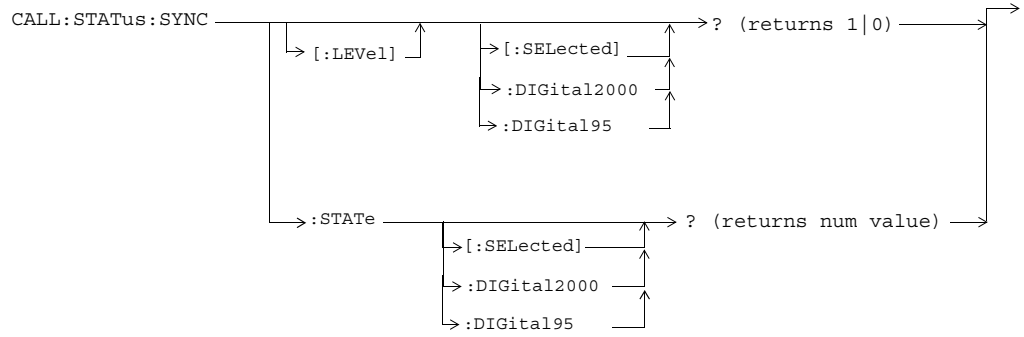
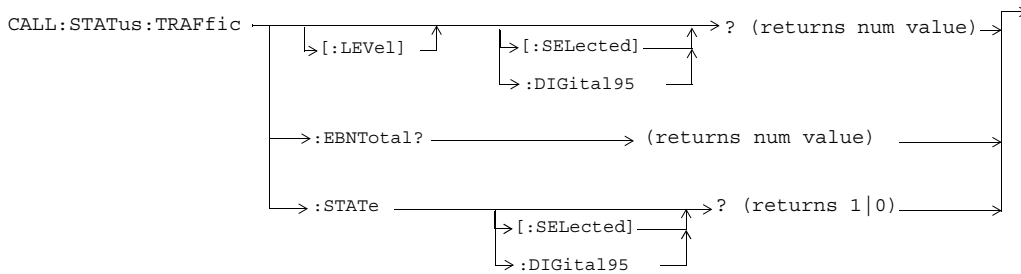
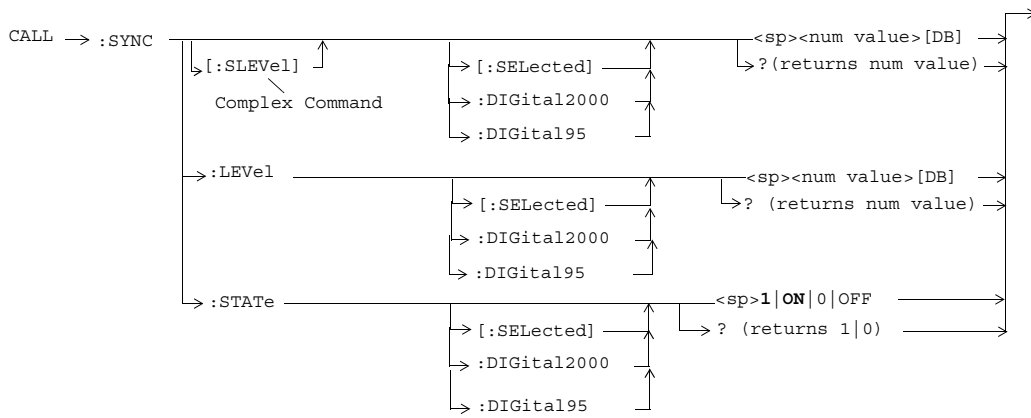


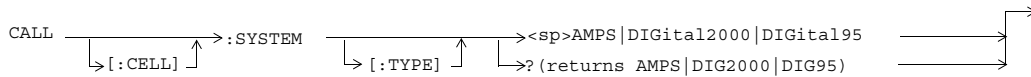
Diagram Conventions



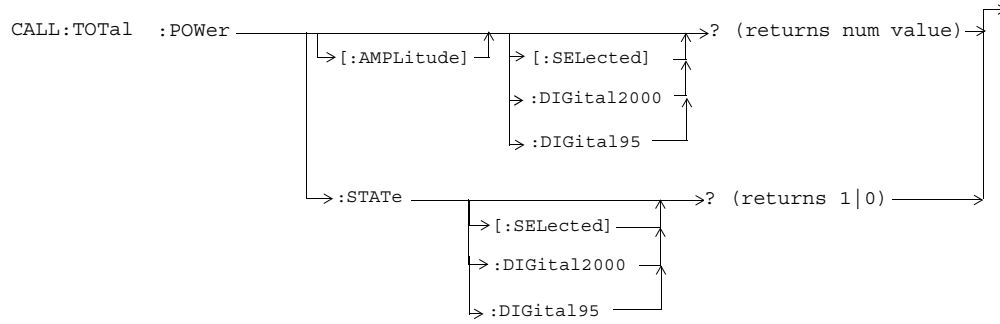
CALL:SYNC



CALL[:CELL]:SYSTEM



CALL:TOTAl:POWer



CALL:TRAFfic

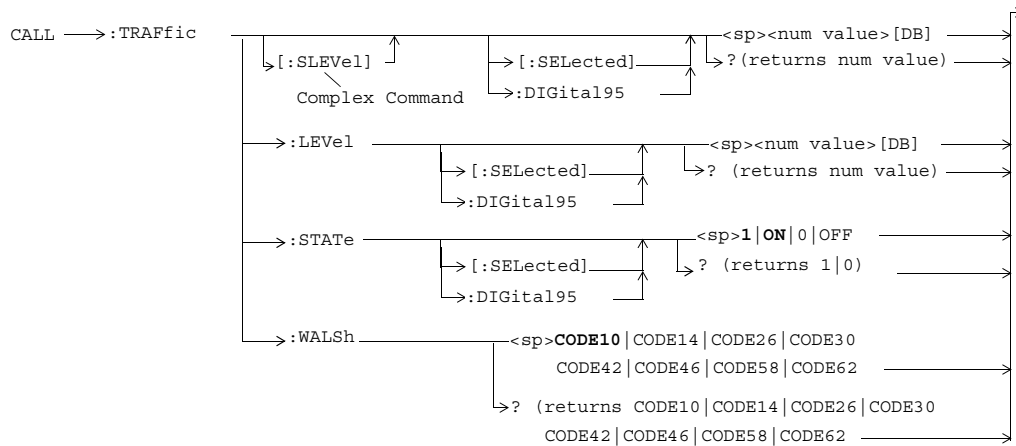
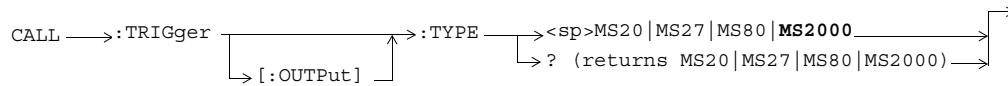
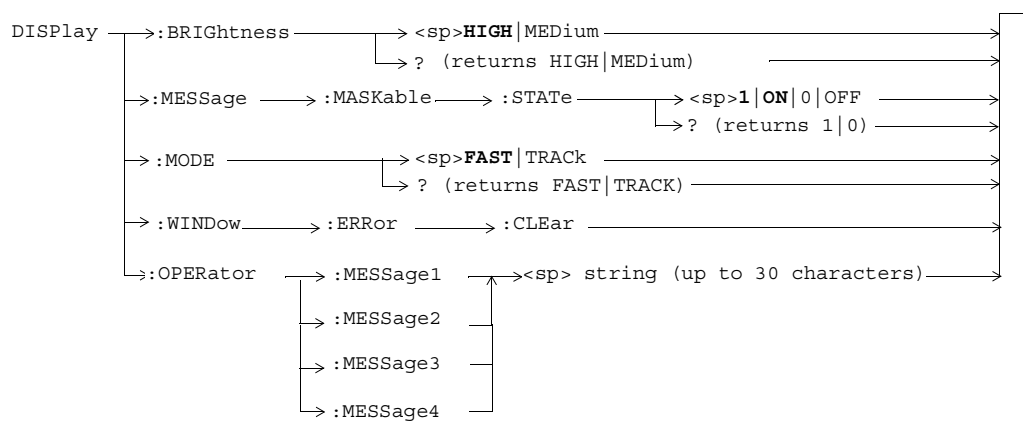


Diagram Conventions

CALL:TRIGger:TYPE



DISPlay



FEtCh:AFANalyzer

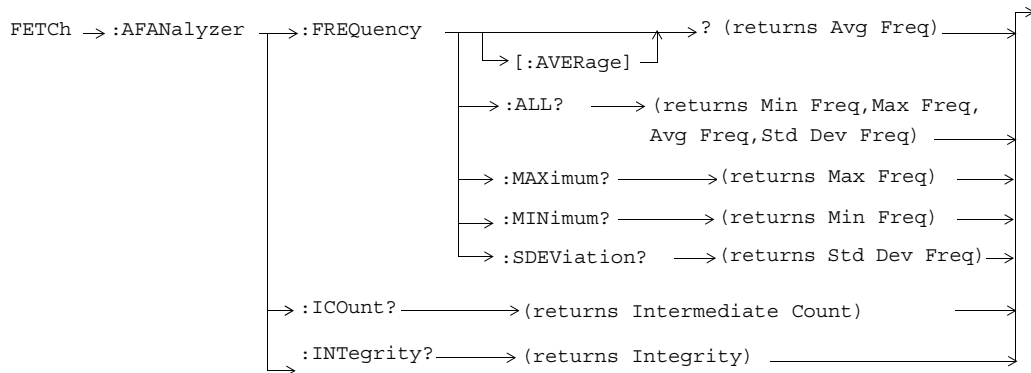
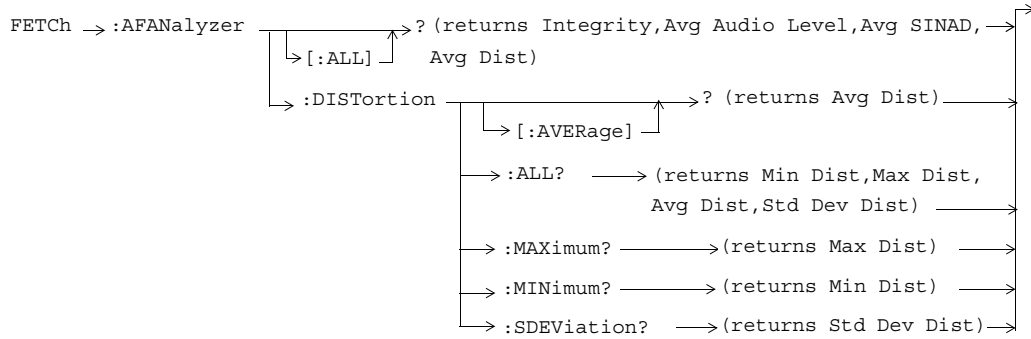
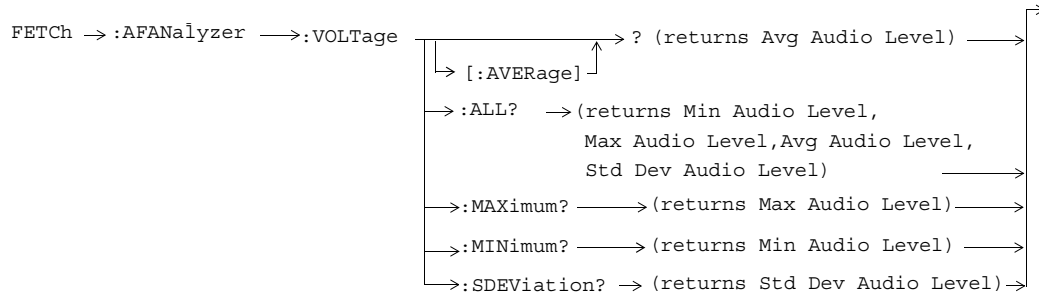
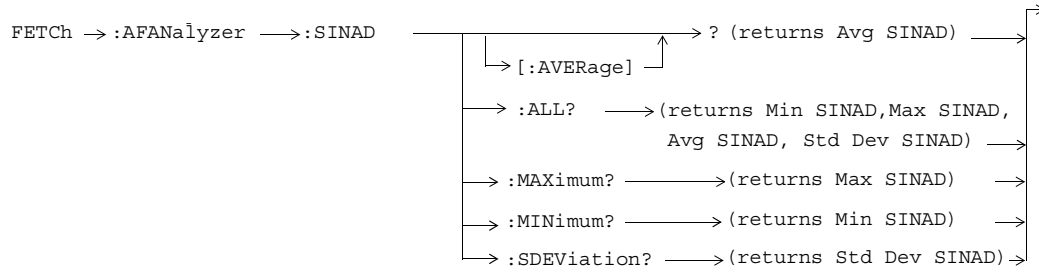
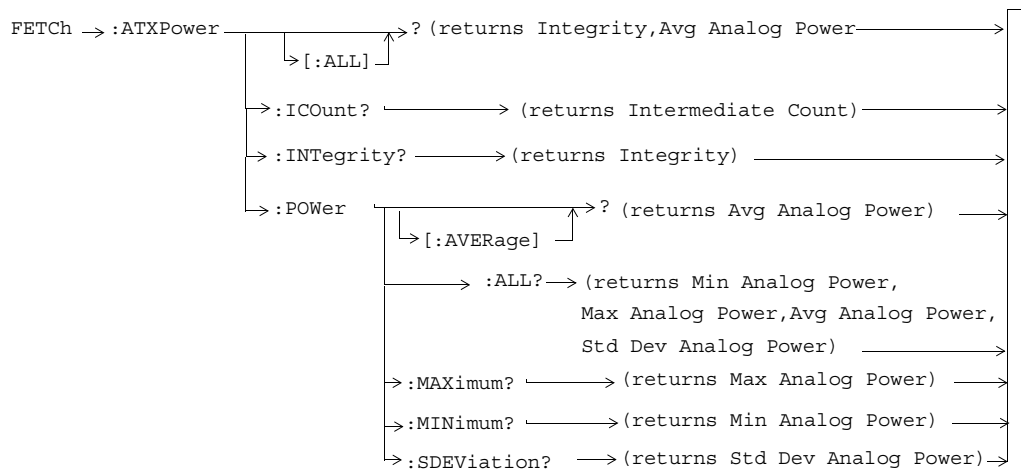


Diagram Conventions



FETCH:ATXPower



FETCH:CAPower

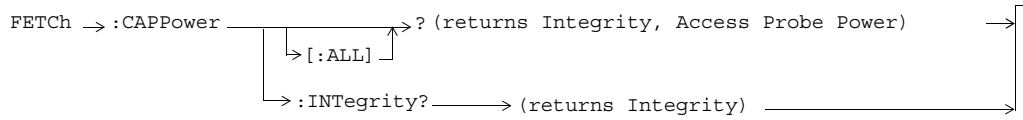
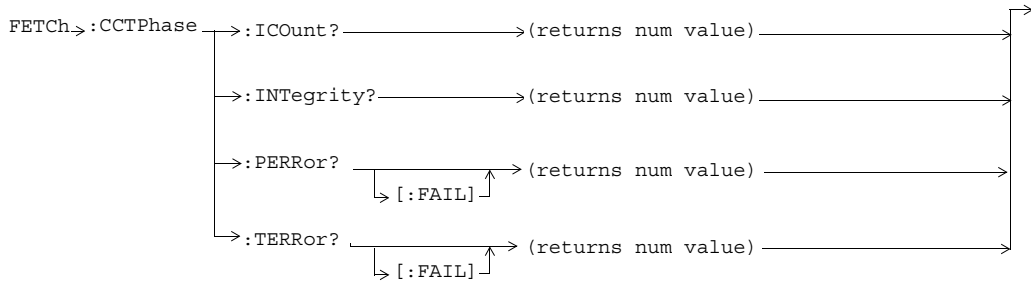
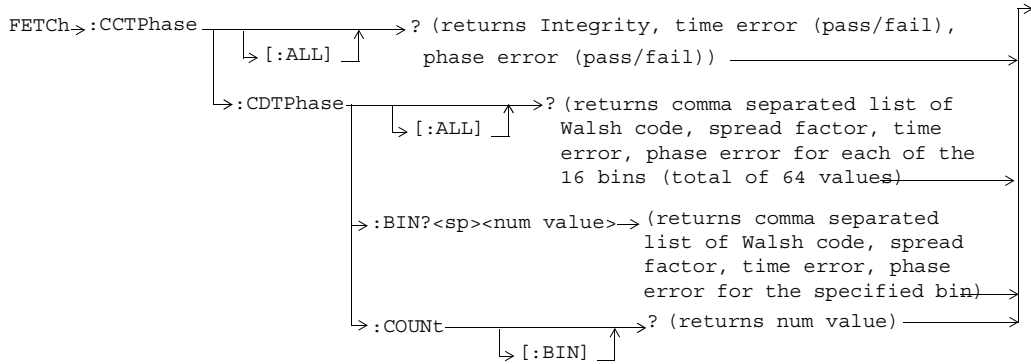
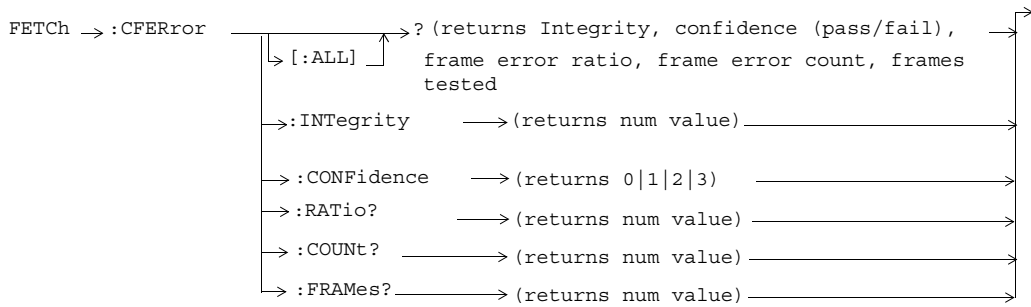


Diagram Conventions

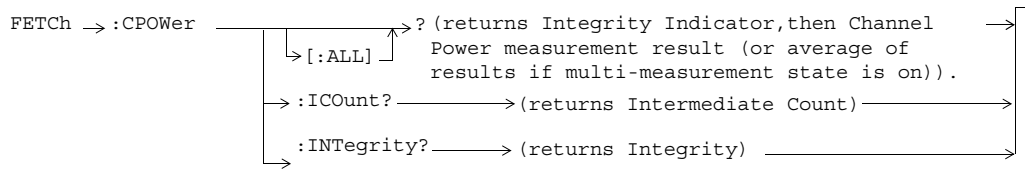
FETCH:CCTPhase



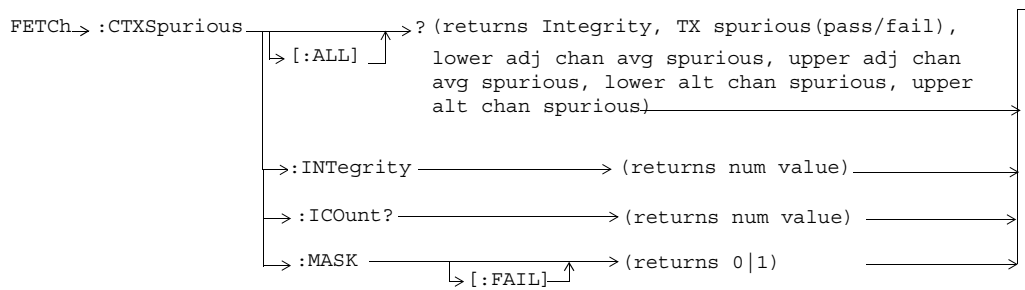
FETCH:CFERror



FETCh:CPOwer



FETCh:CTXSpurious



FETCh:DAPower

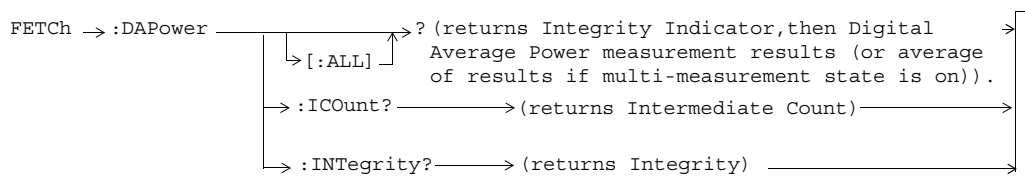
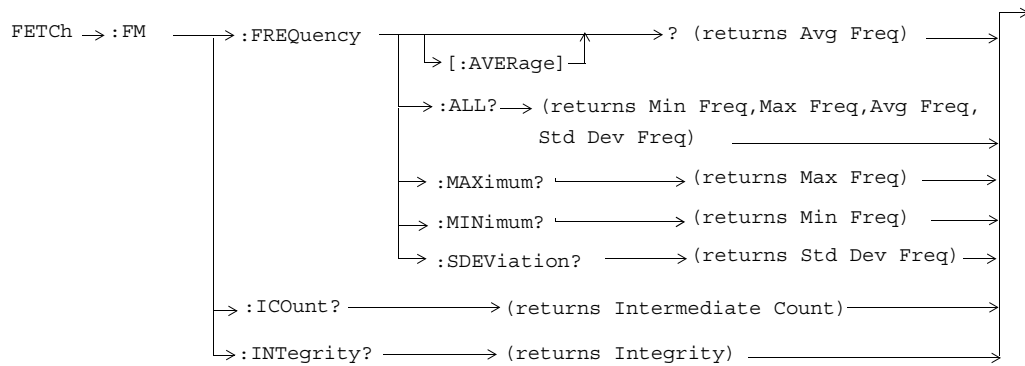
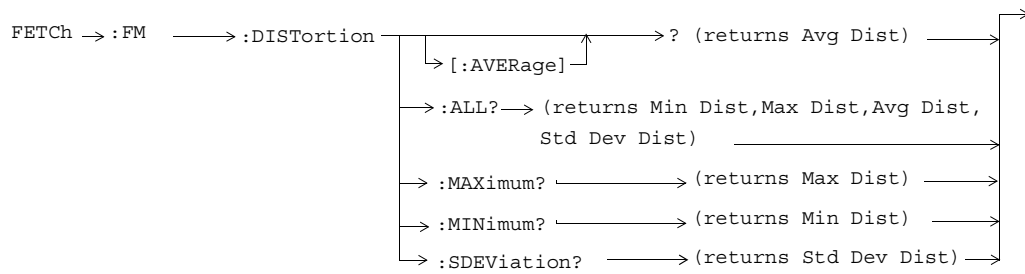
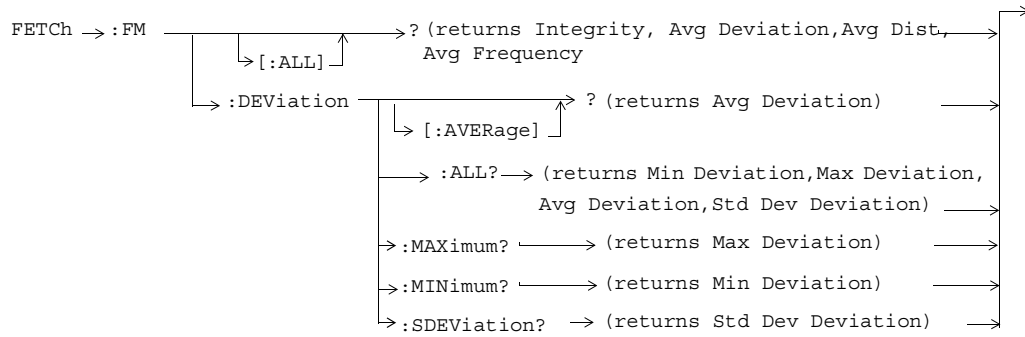


Diagram Conventions

FETCH:FM



FETCH:FSTability

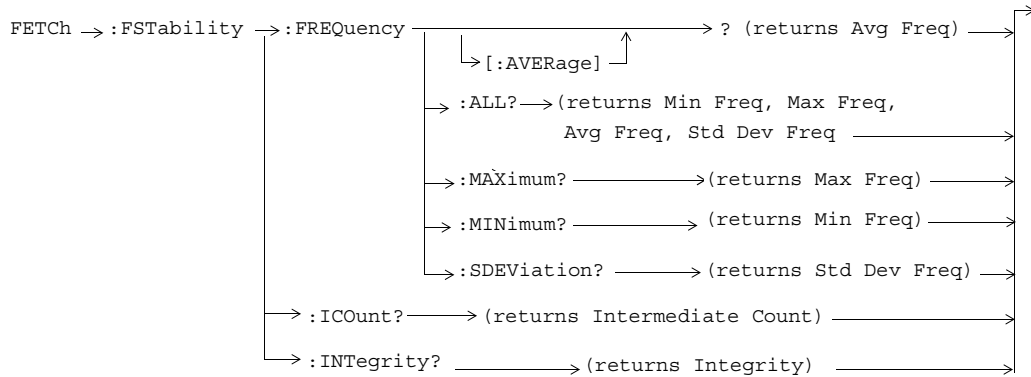
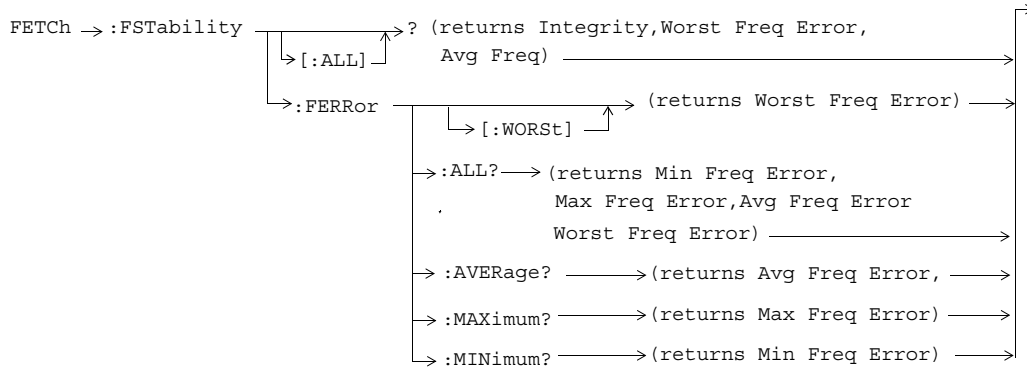
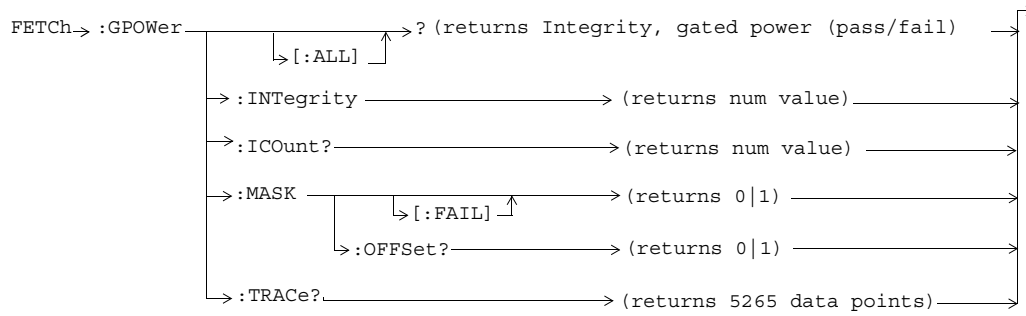
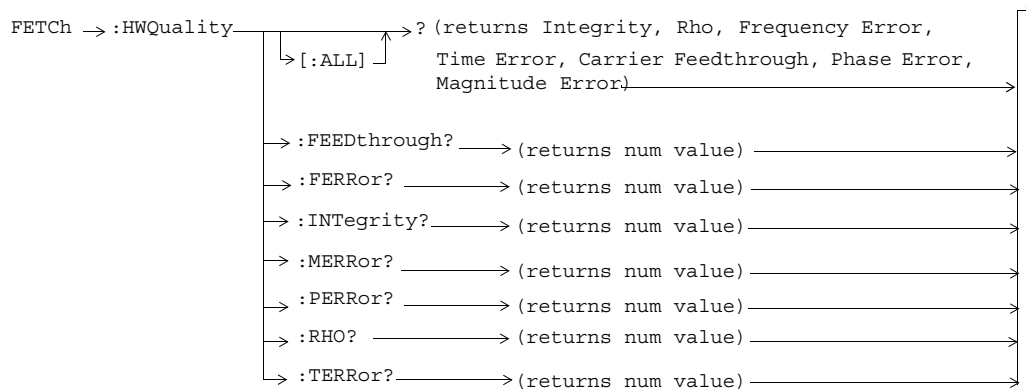


Diagram Conventions

FETCH:GPOWer



FETCH:HWQuality



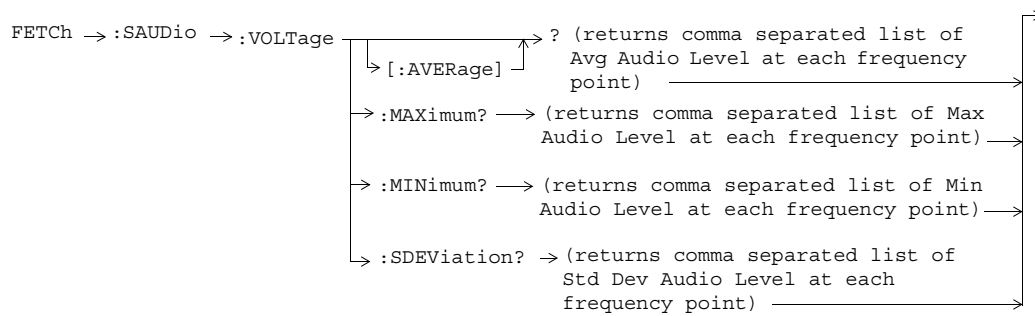
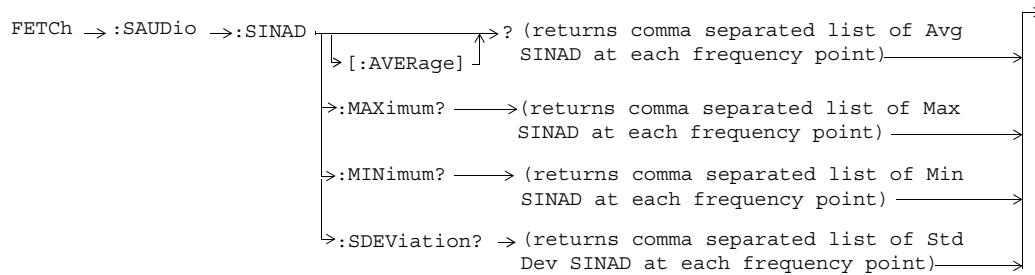
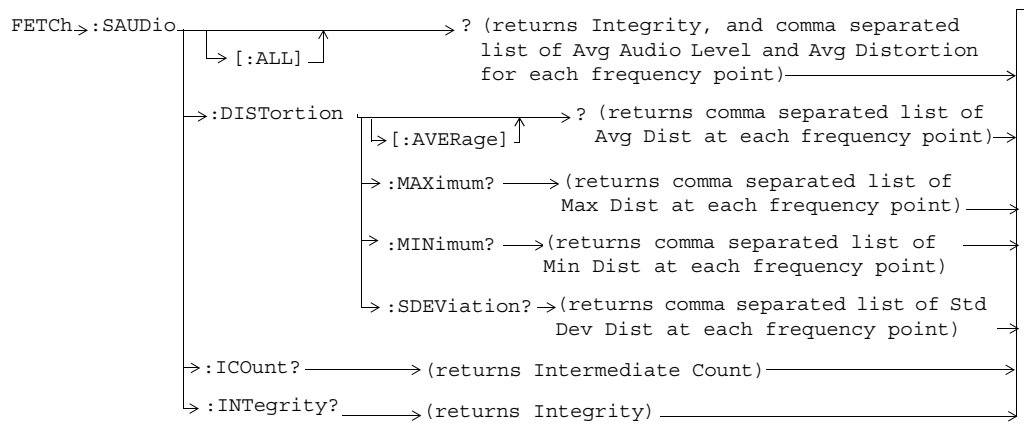
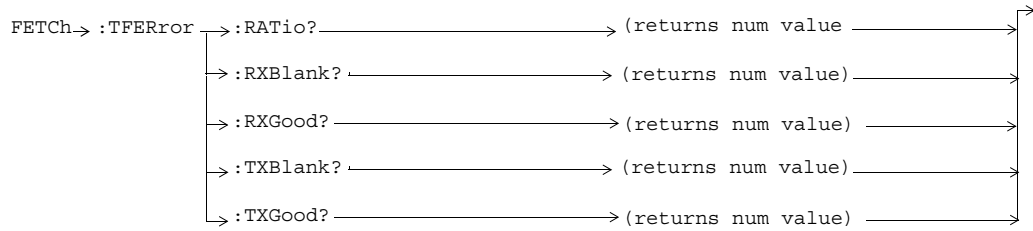
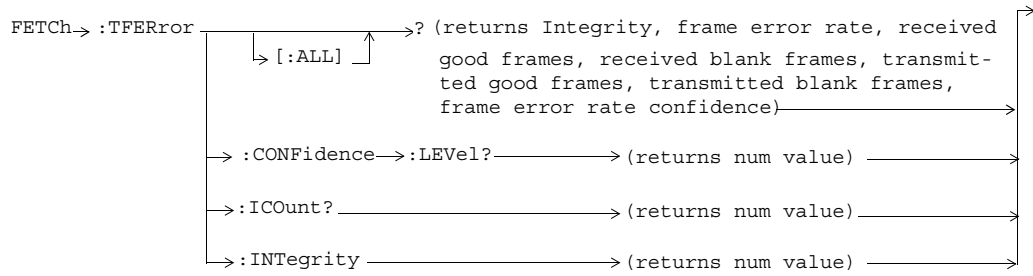
FETCh:SAUDio

Diagram Conventions

FETCH:TFERror



FETCH:WQuality

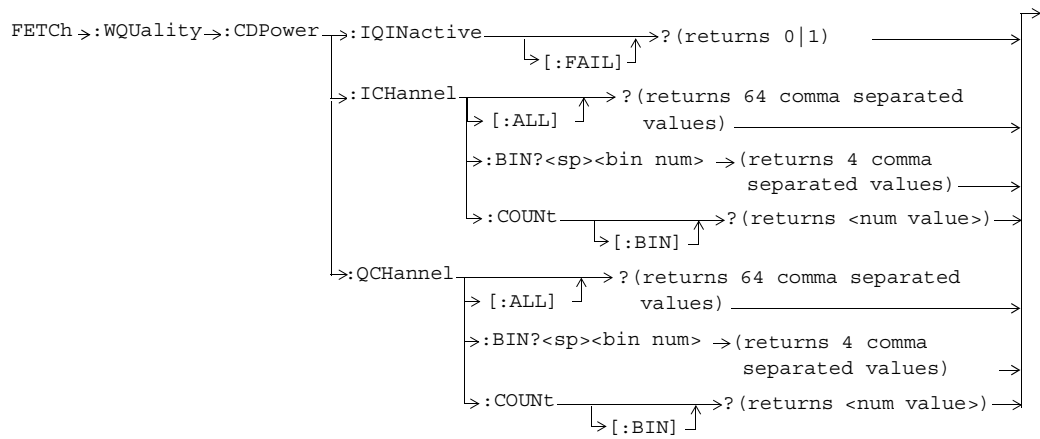
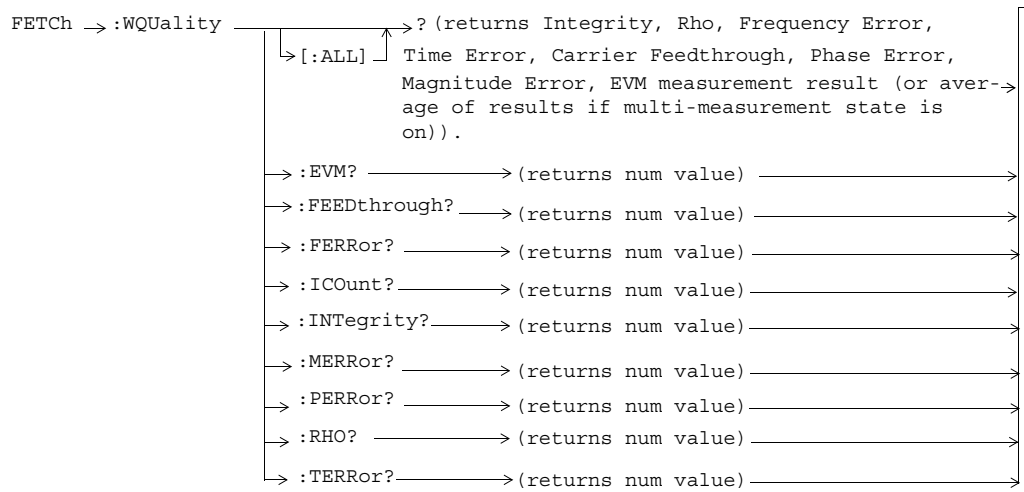
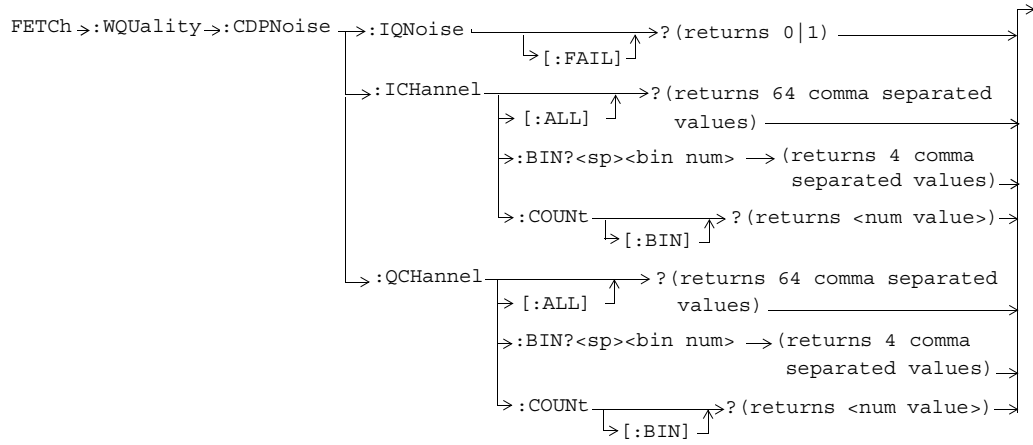


Diagram Conventions



INITiate

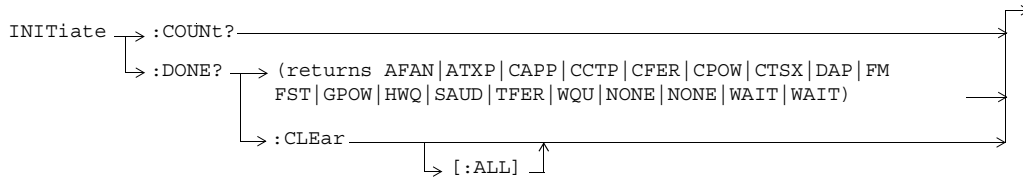
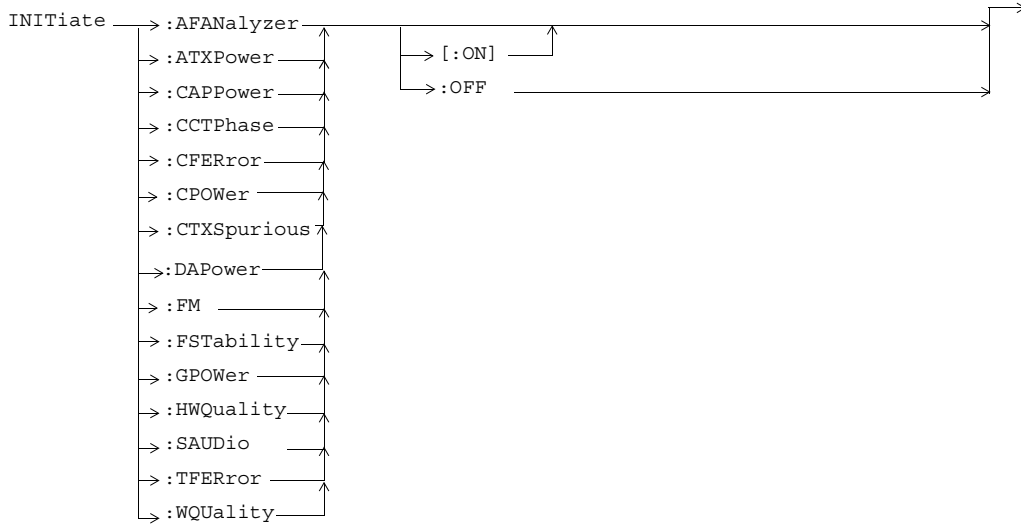
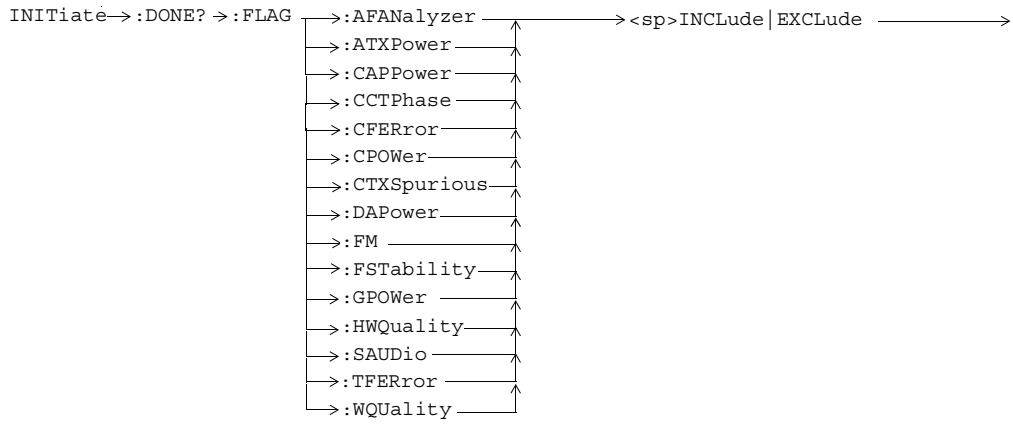


Diagram Conventions



INITiate->:ON? → (returns comma-separated list of AFAN|ATXP|CAPP|CCTP|CFER|CPOW|CTSX|DAP|FM|FST|GPOW|HWQ|SAUD|TFER|WQU|NONE)



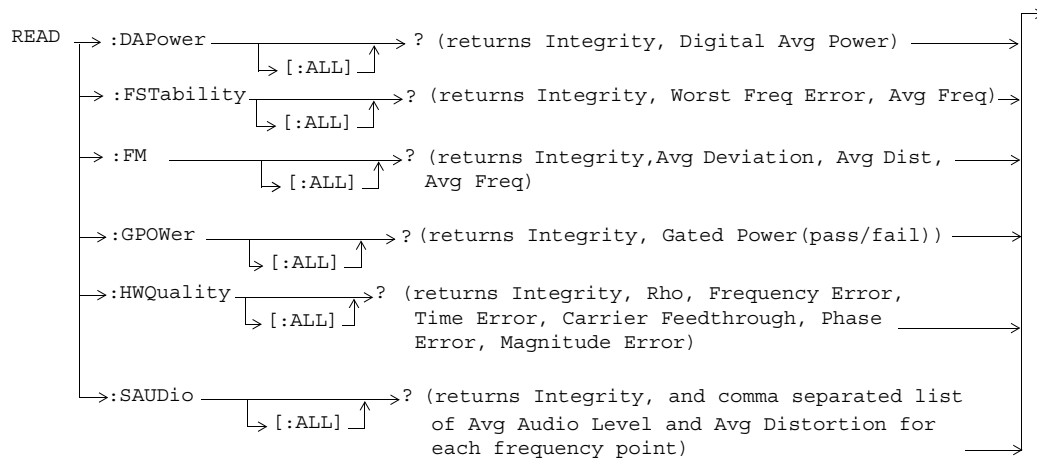
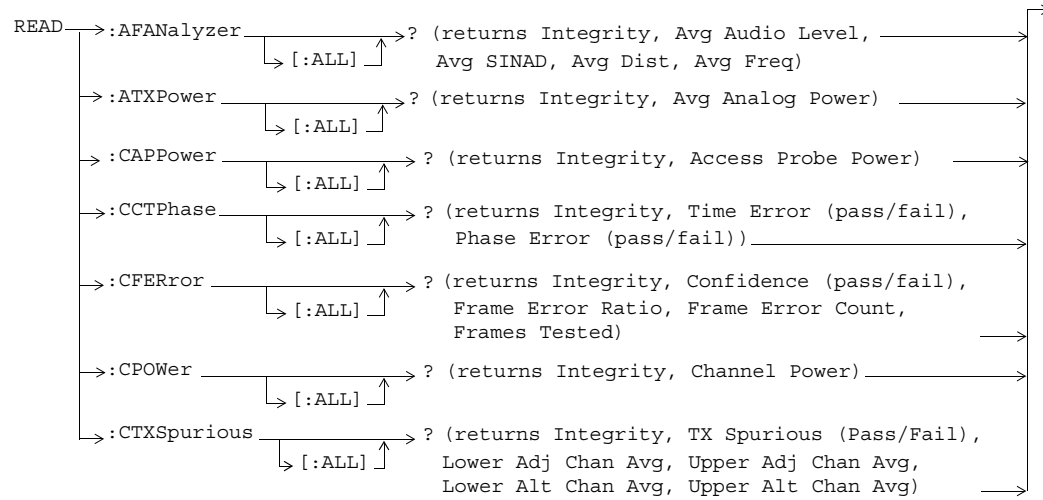
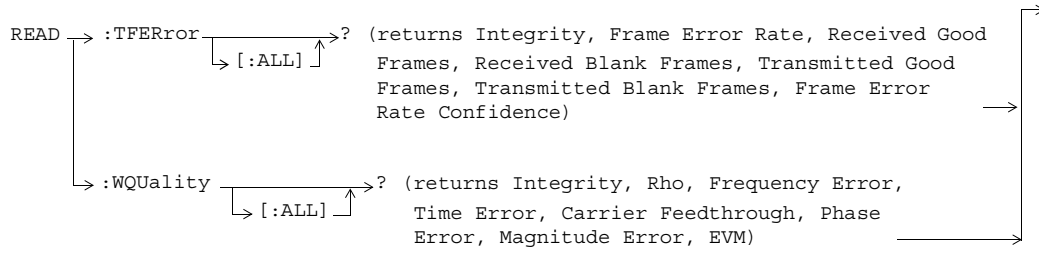
READ

Diagram Conventions



RFANalyzer

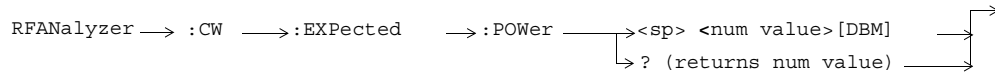
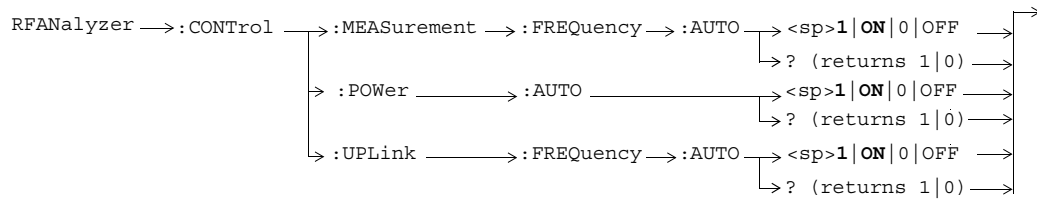
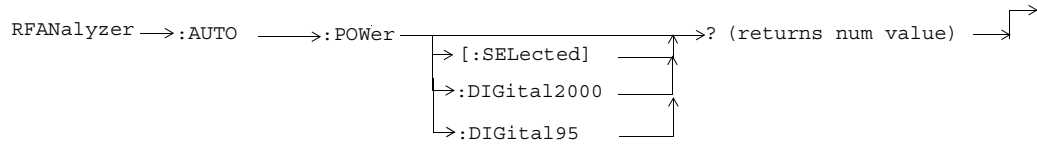
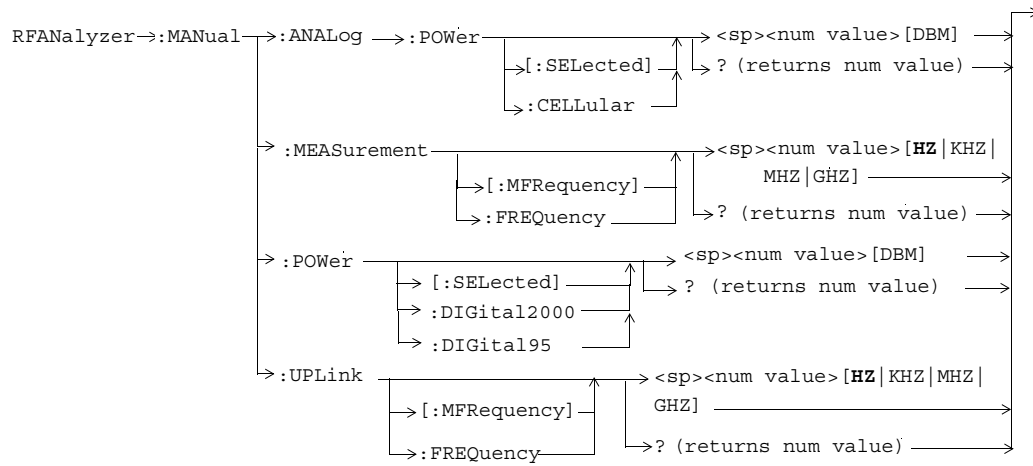


Diagram Conventions



SETup:AFANalyzer

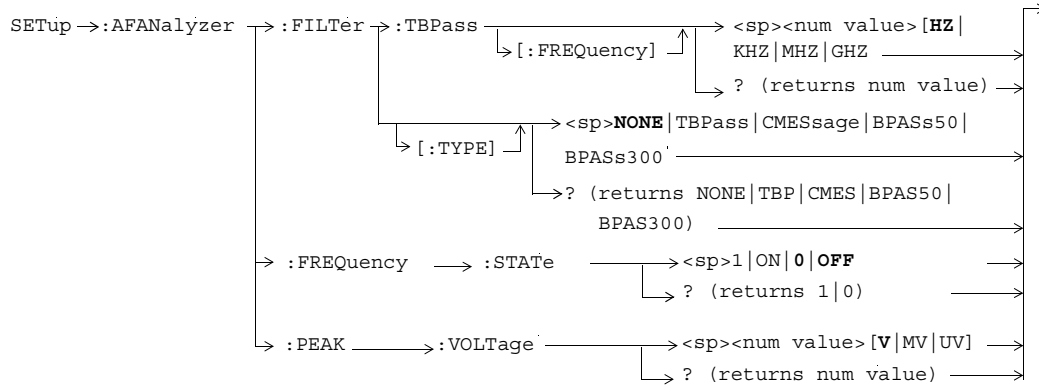
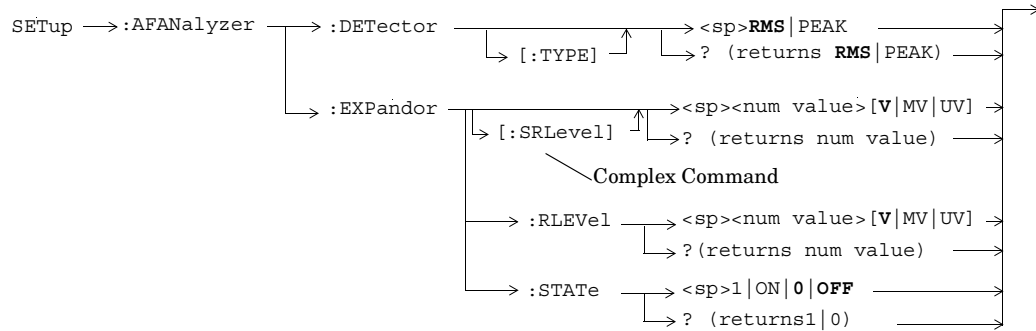
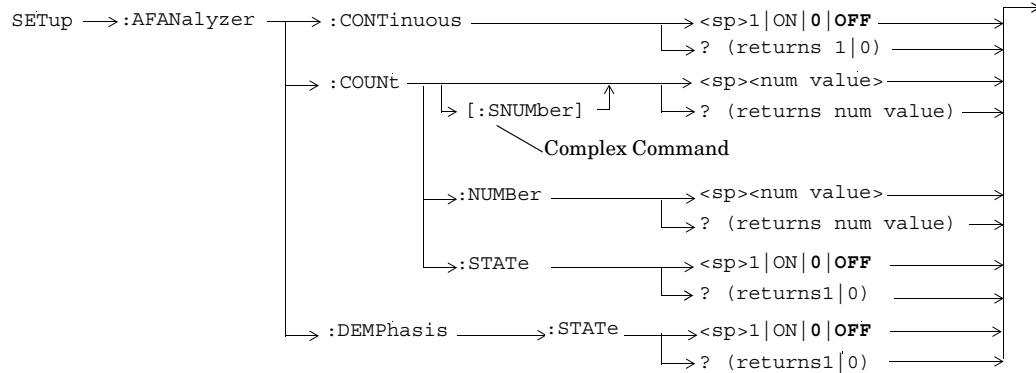
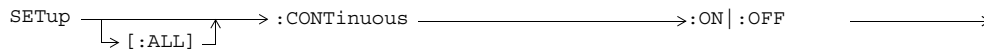
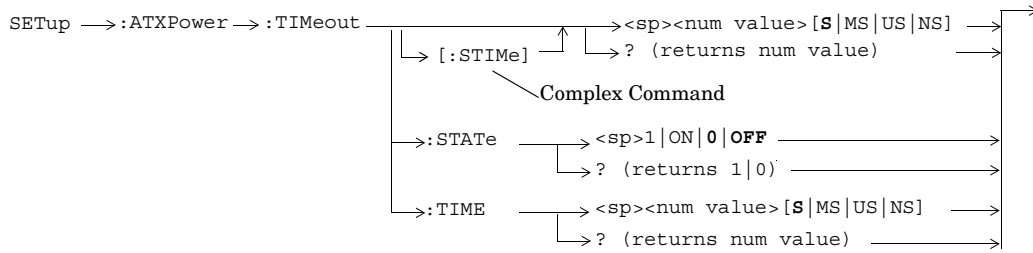
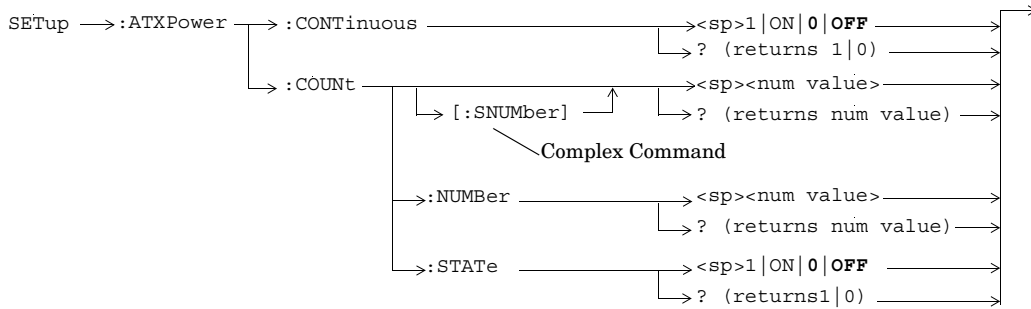


Diagram Conventions

SETup[:ALL]:CONTinuous



SETup:ATXPower



SETup:CAPPower

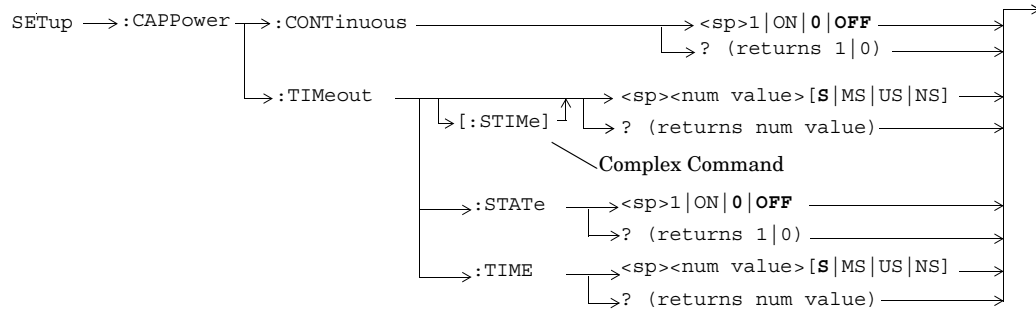
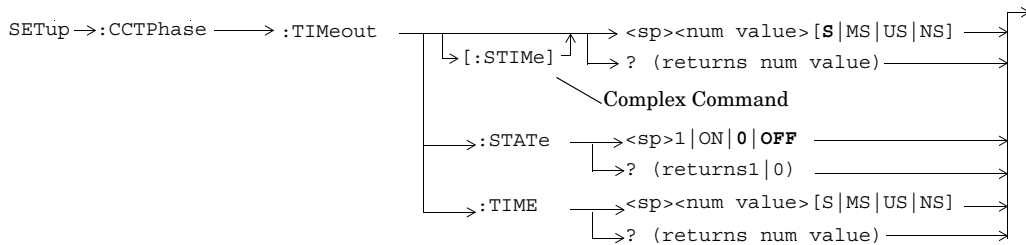
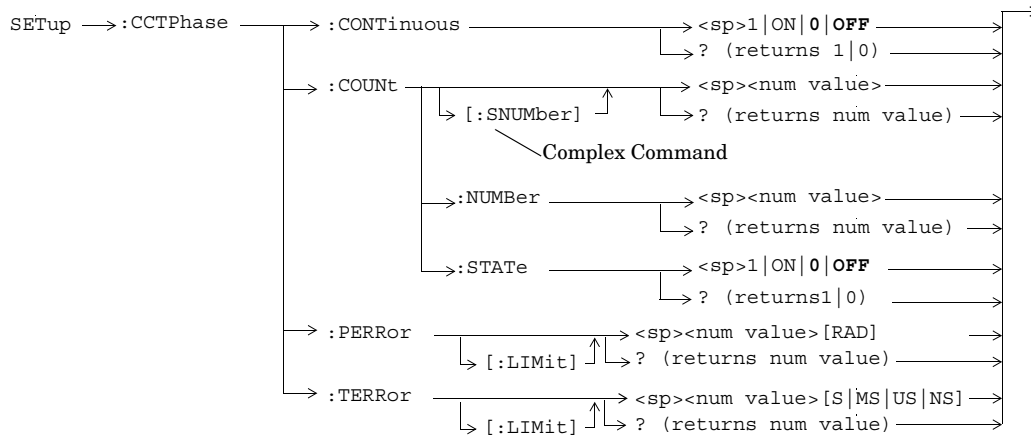


Diagram Conventions

SETup:CCTPhase



SETup:CFERror

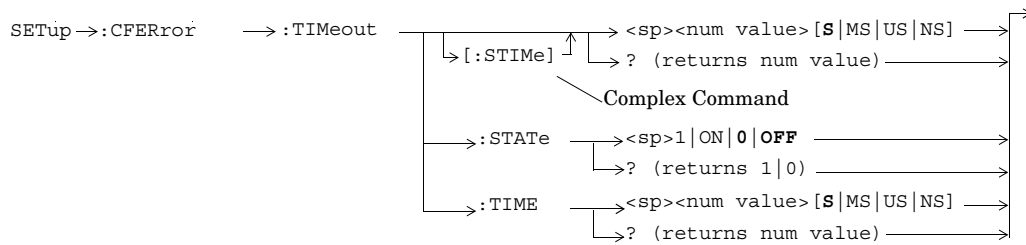
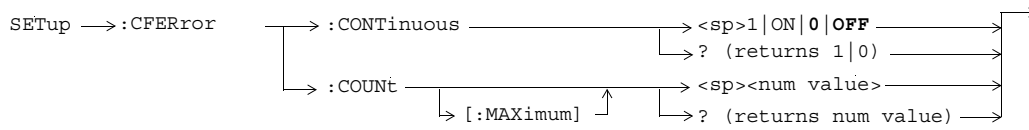
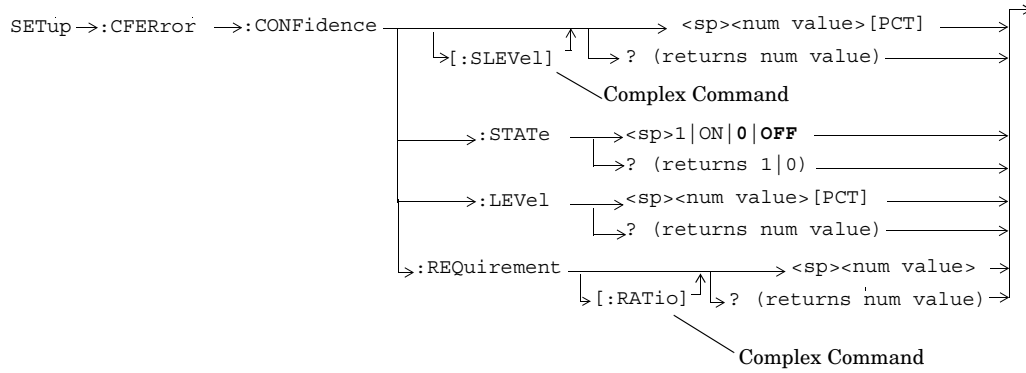
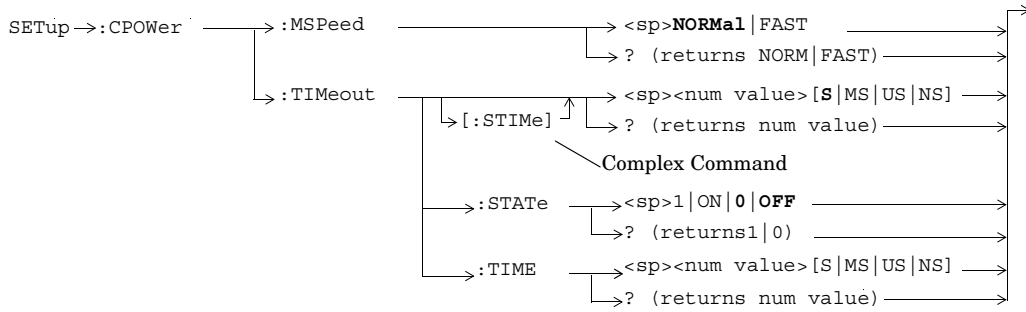
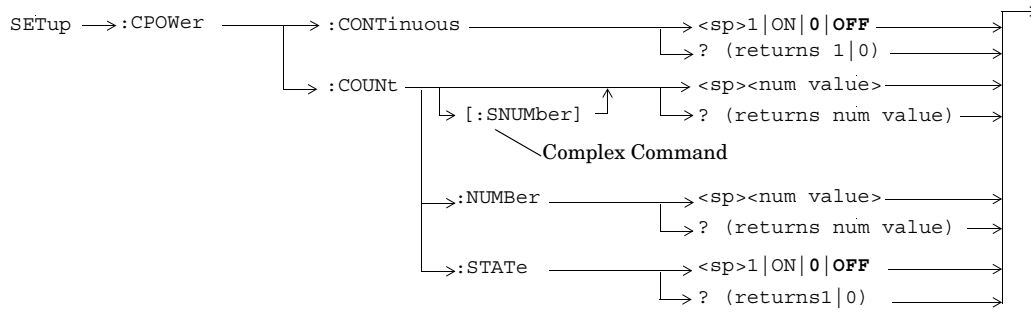


Diagram Conventions

SETup:CPOWER



SETup:CTXSpurious

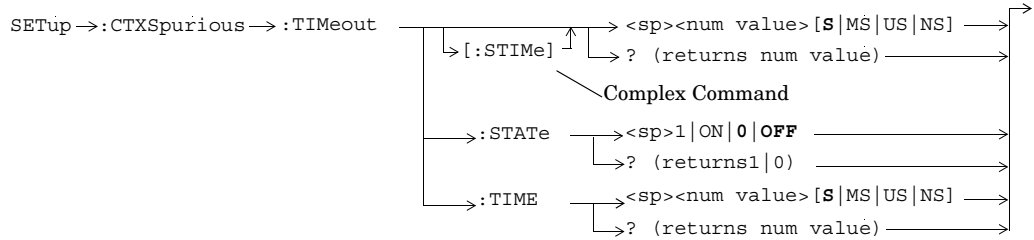
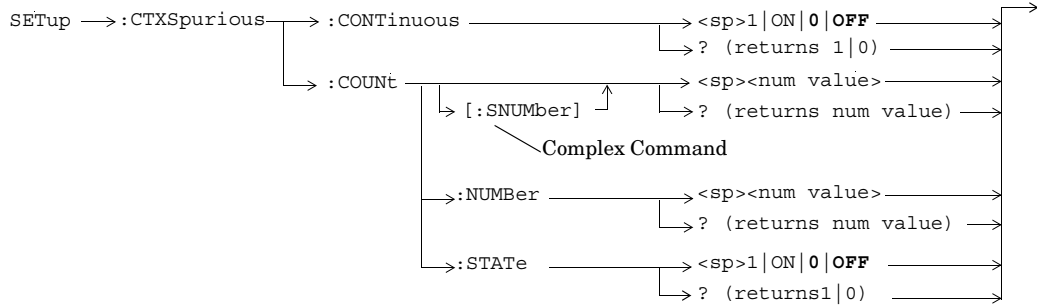
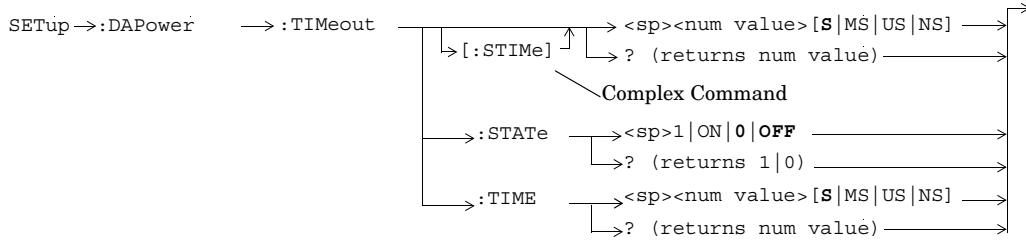
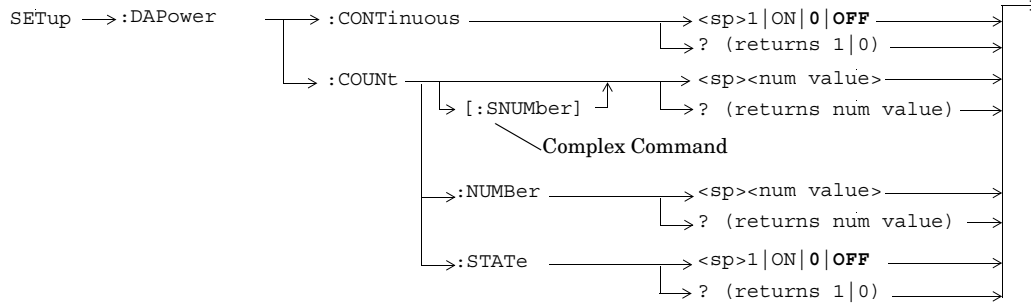


Diagram Conventions

SETup:DAPower



SETup:FM

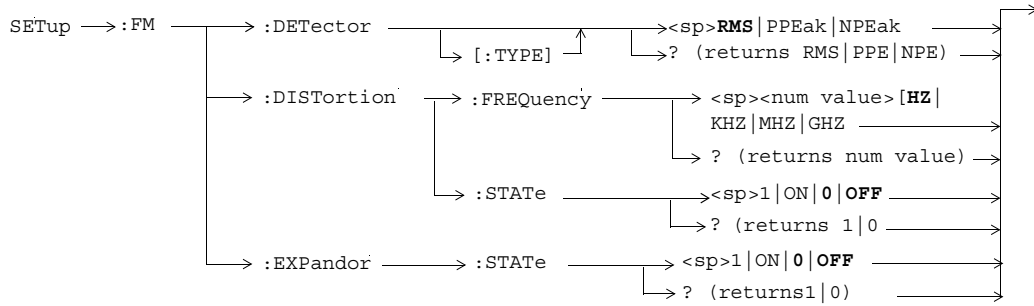
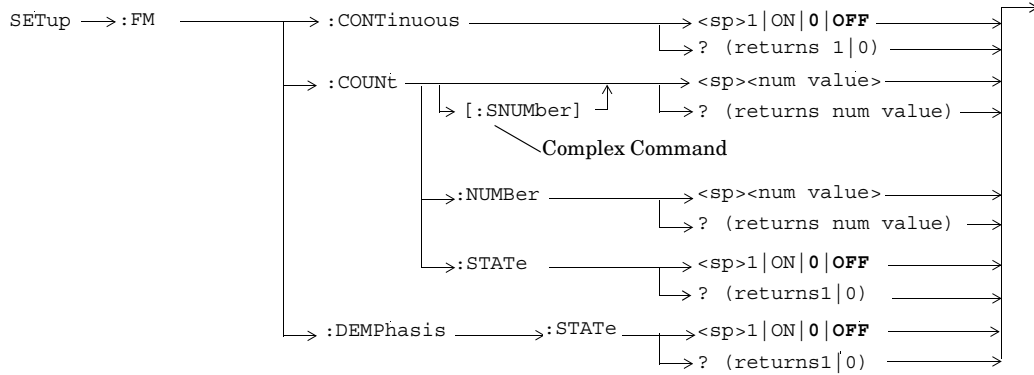
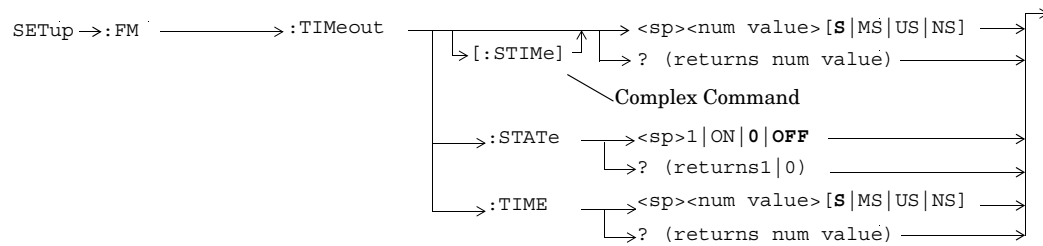
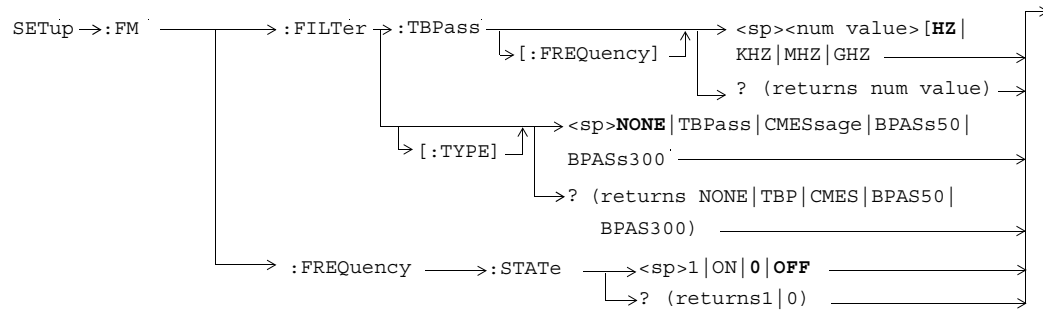


Diagram Conventions



SETup:FSTability

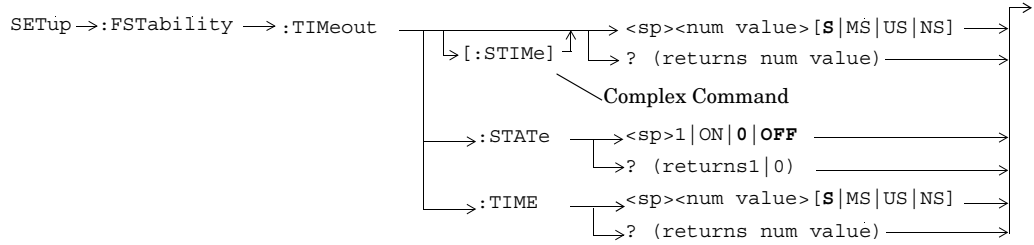
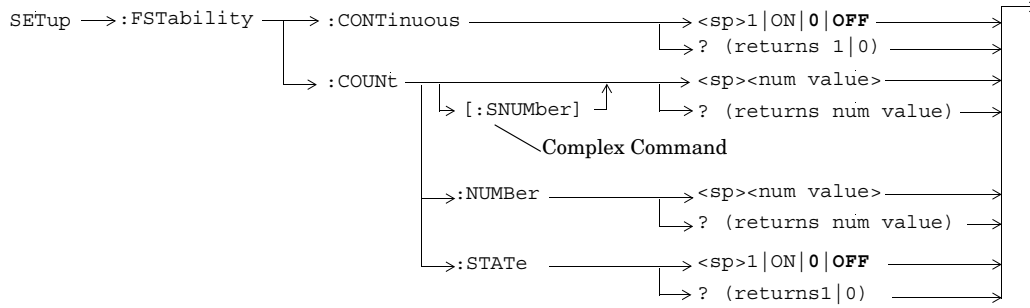
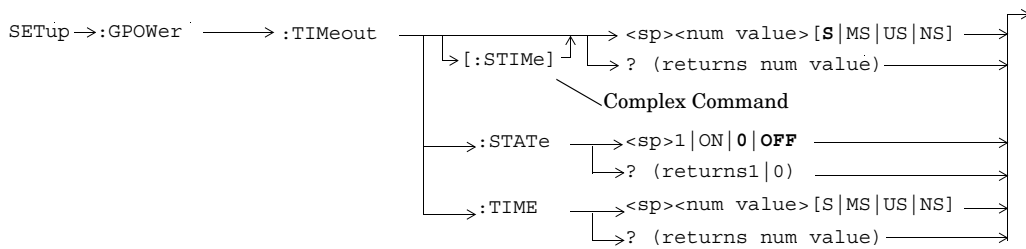
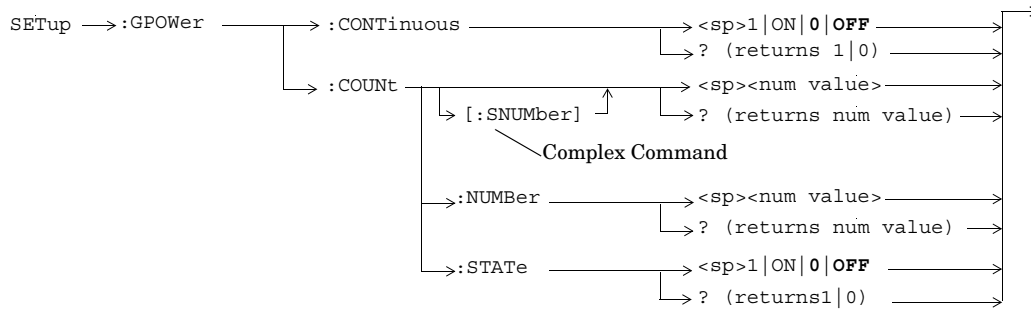
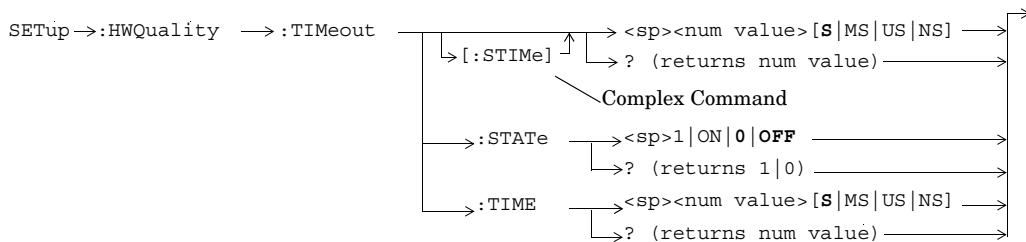


Diagram Conventions

SETup:GPOWER



SETup:HWQuality



SETup:SAudio

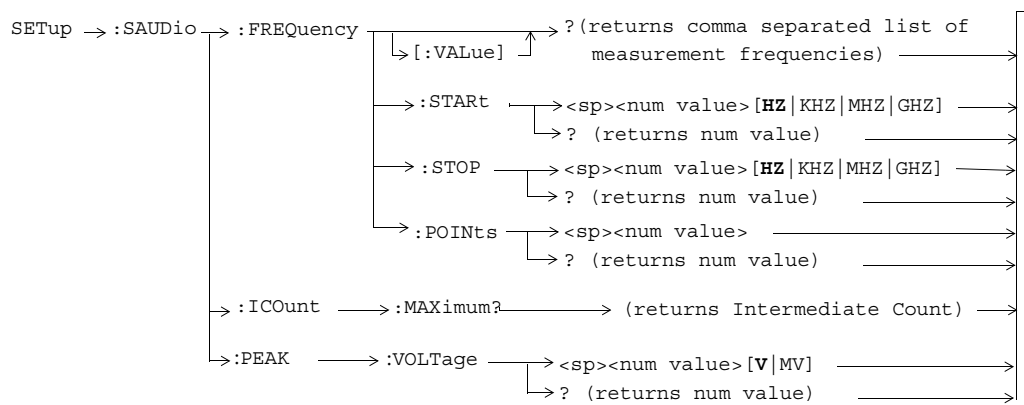
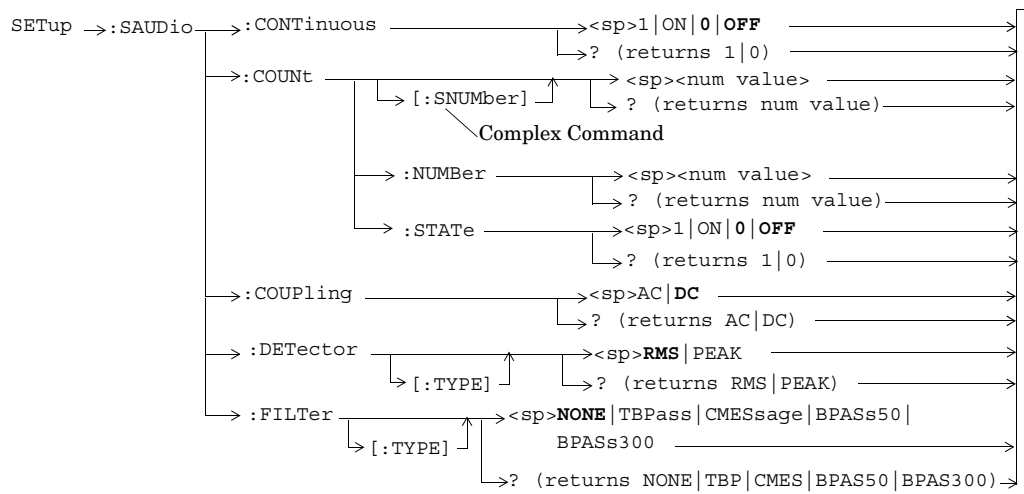
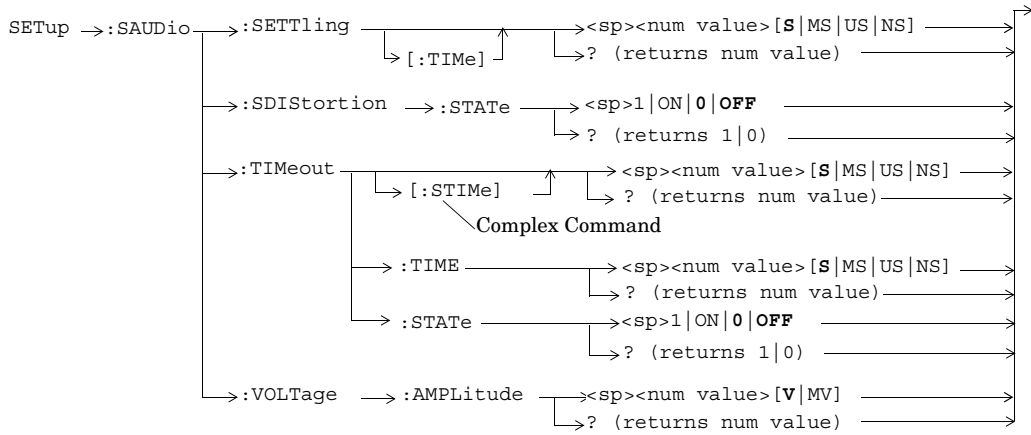
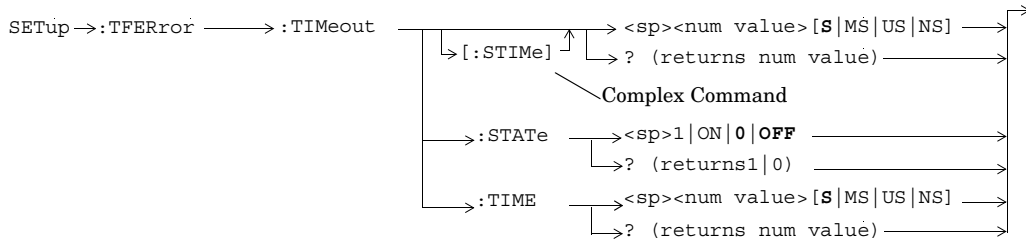
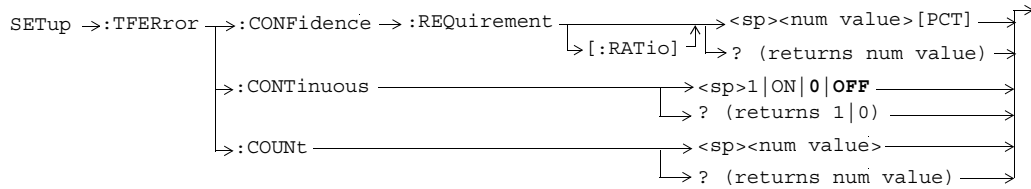


Diagram Conventions



SETup:TFERror



SETup:WQUality

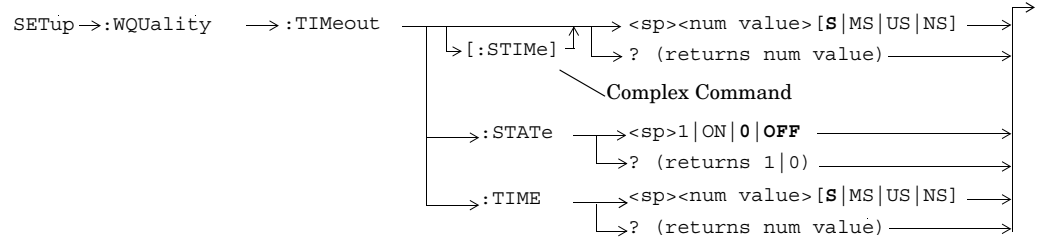
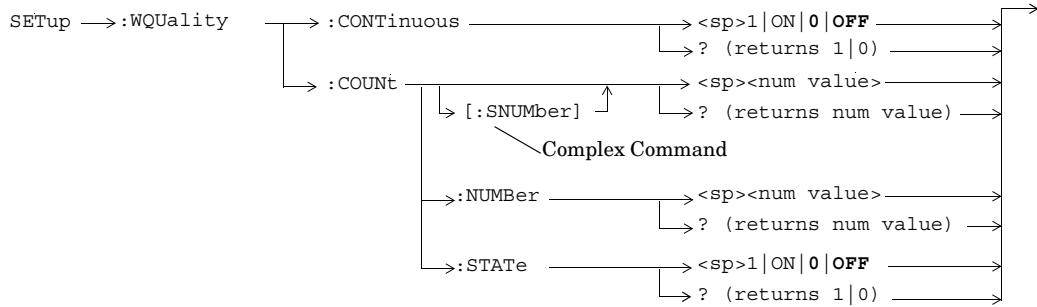
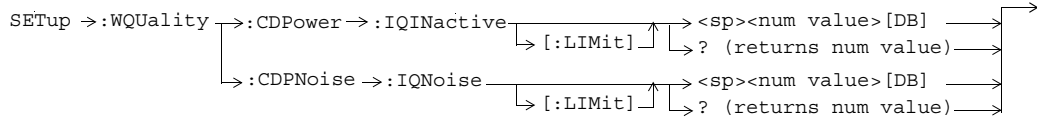


Diagram Conventions

STATUS:OPERation:

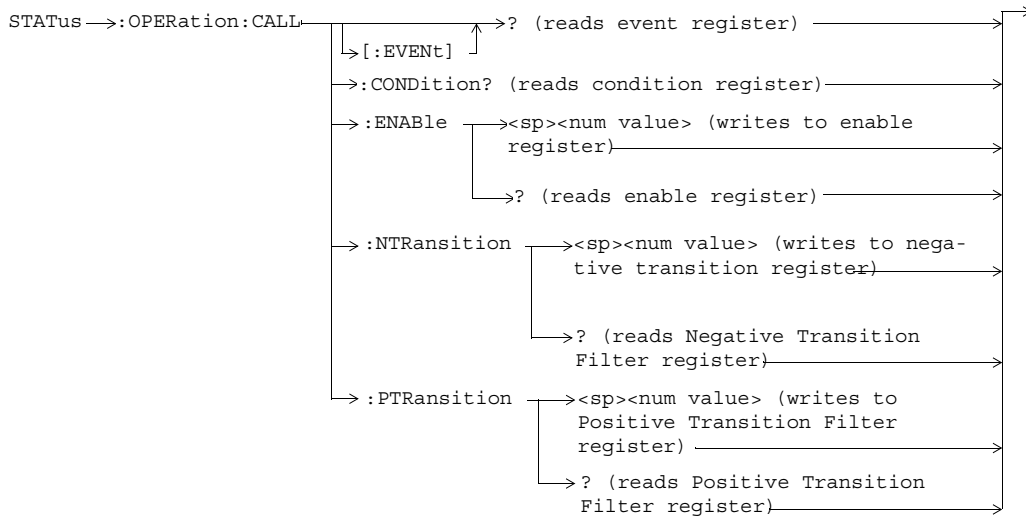
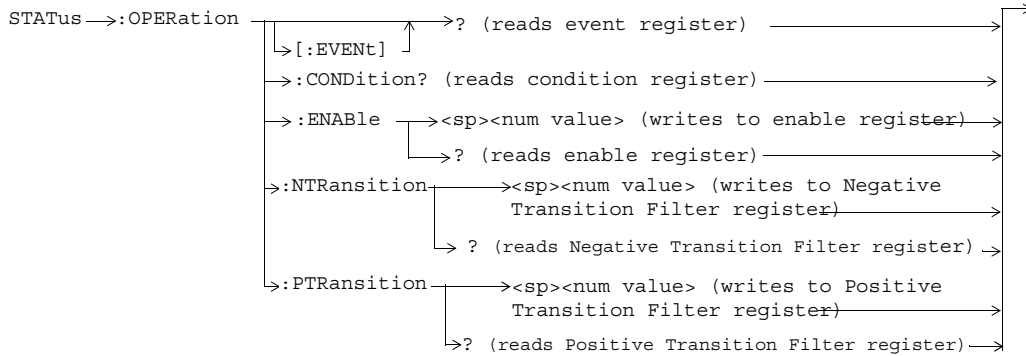


Diagram Conventions

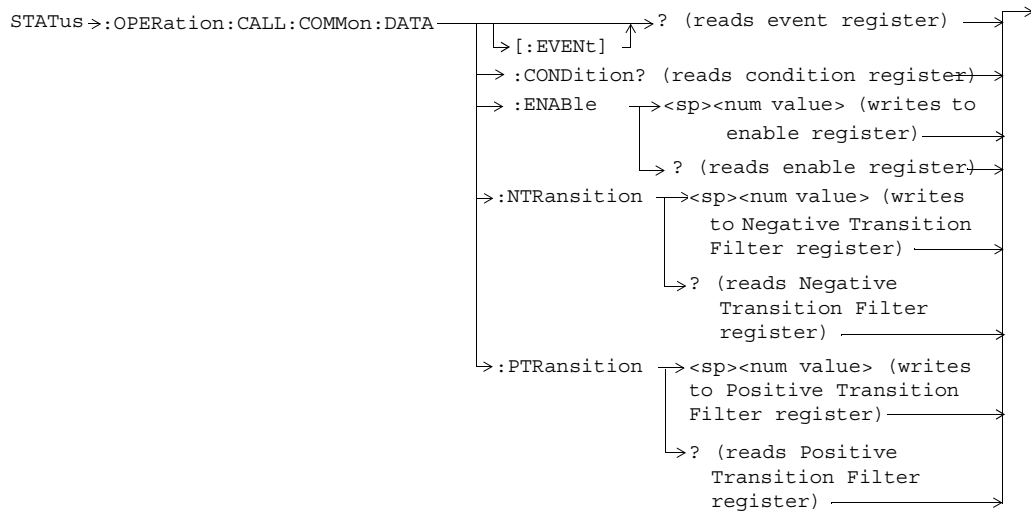
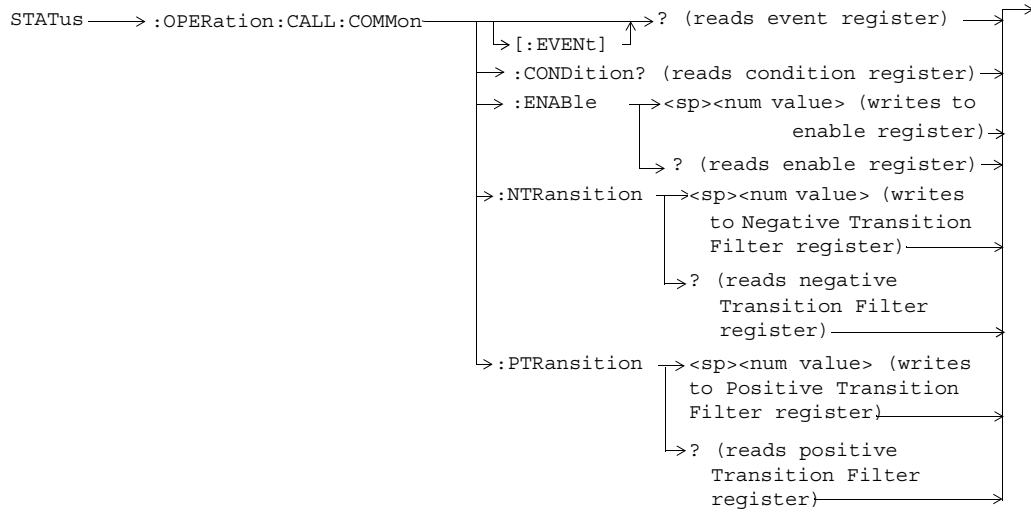


Diagram Conventions

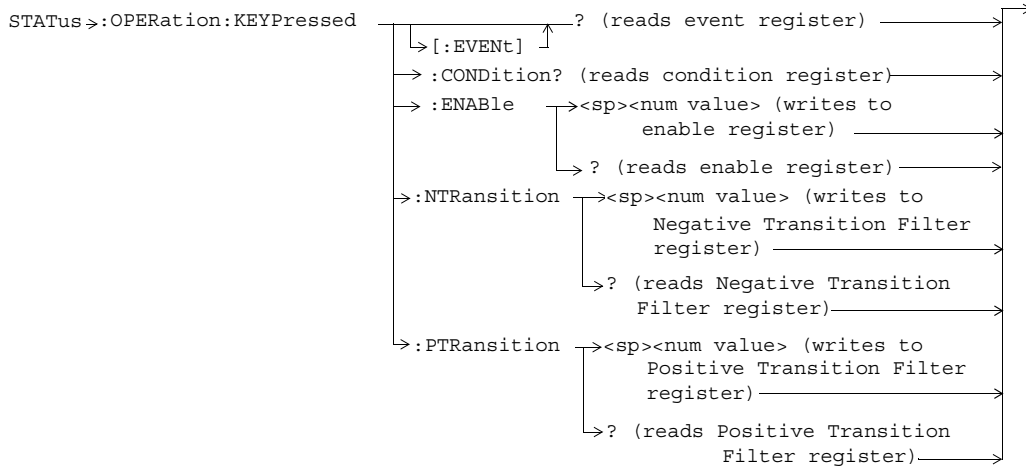
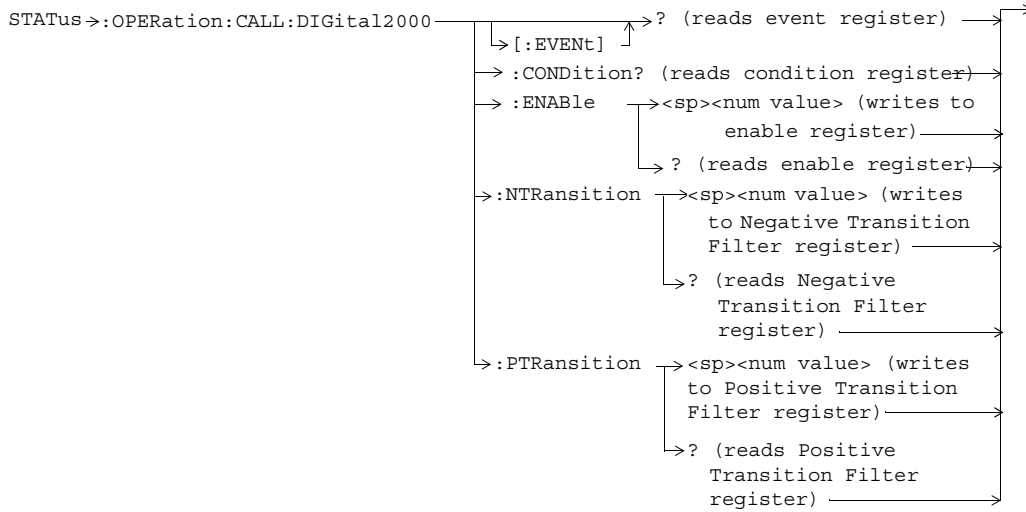


Diagram Conventions

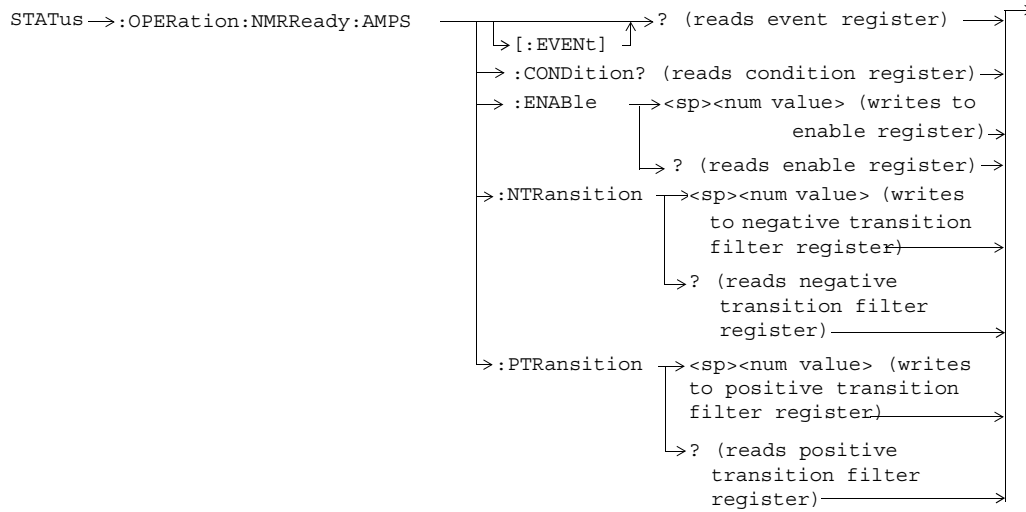
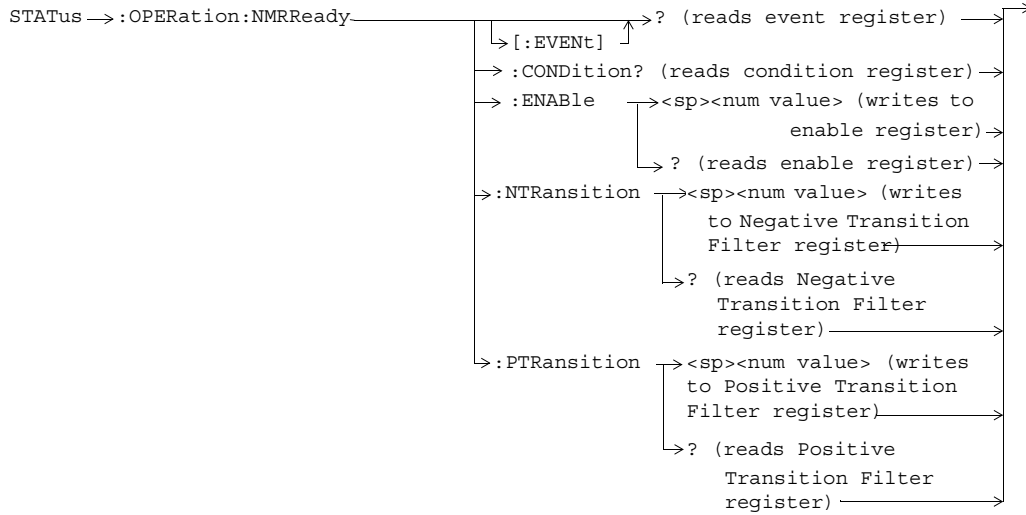


Diagram Conventions

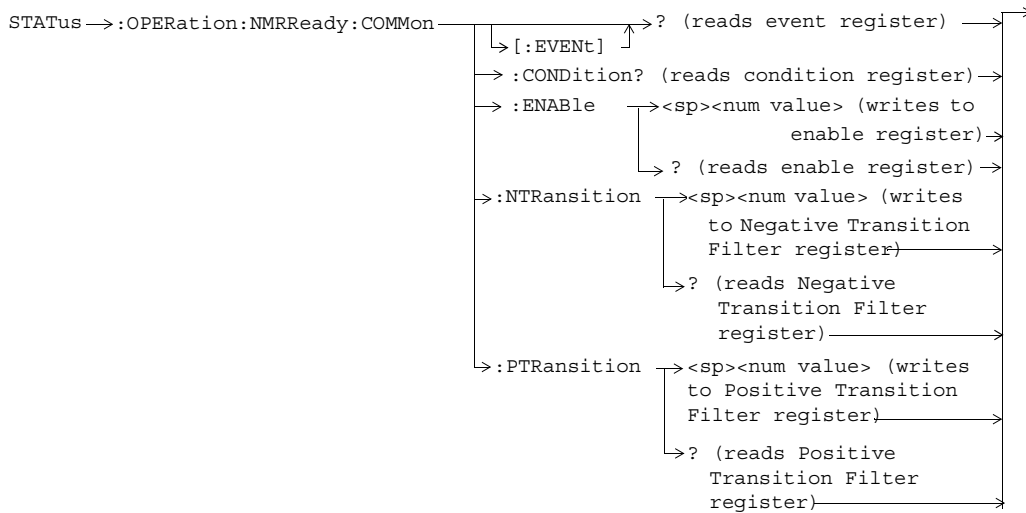
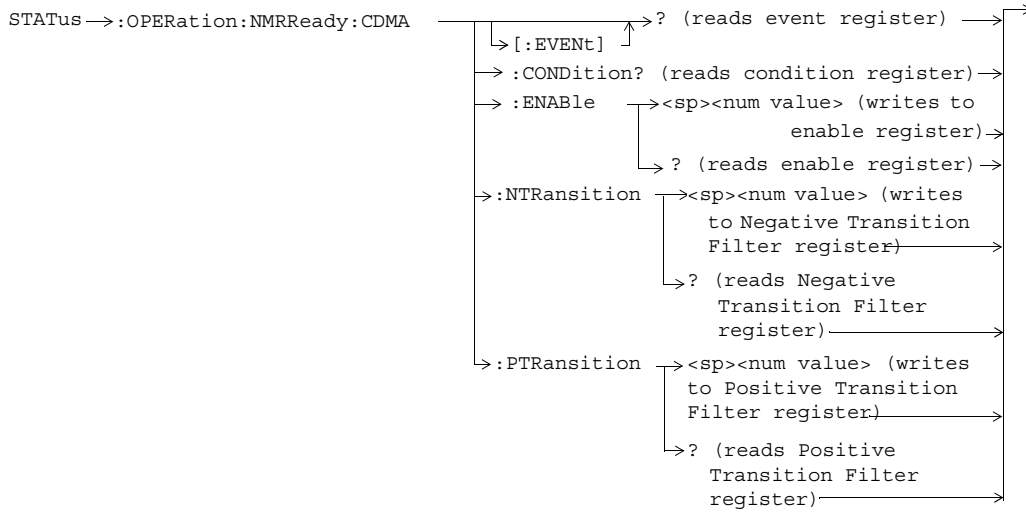


Diagram Conventions

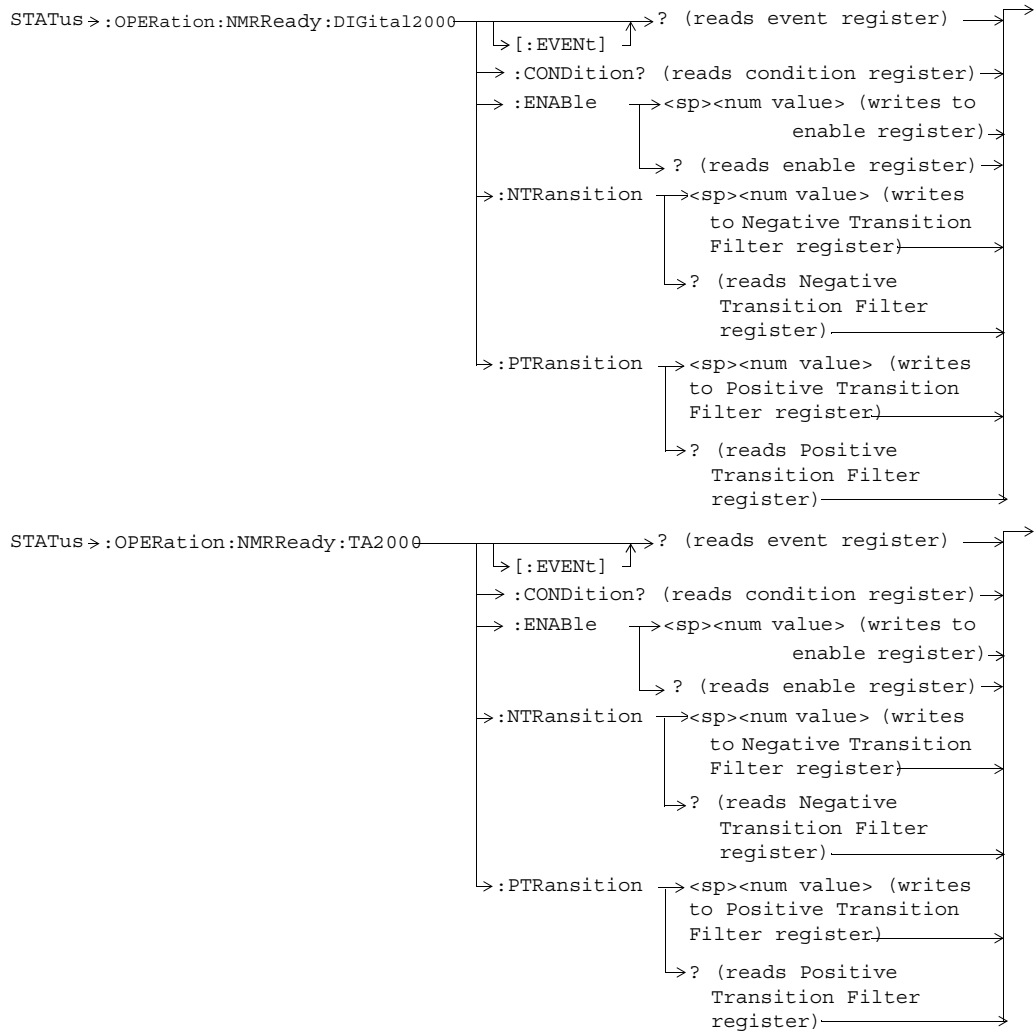
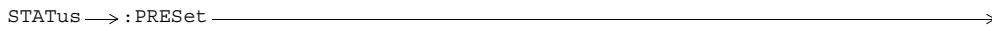


Diagram Conventions

STATUS:PRESet



STATUS:QUEStionable

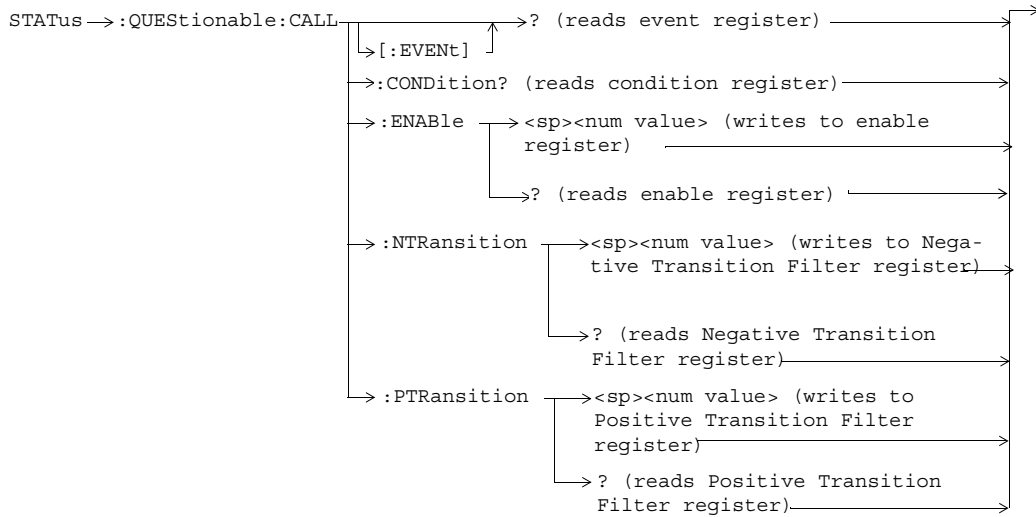
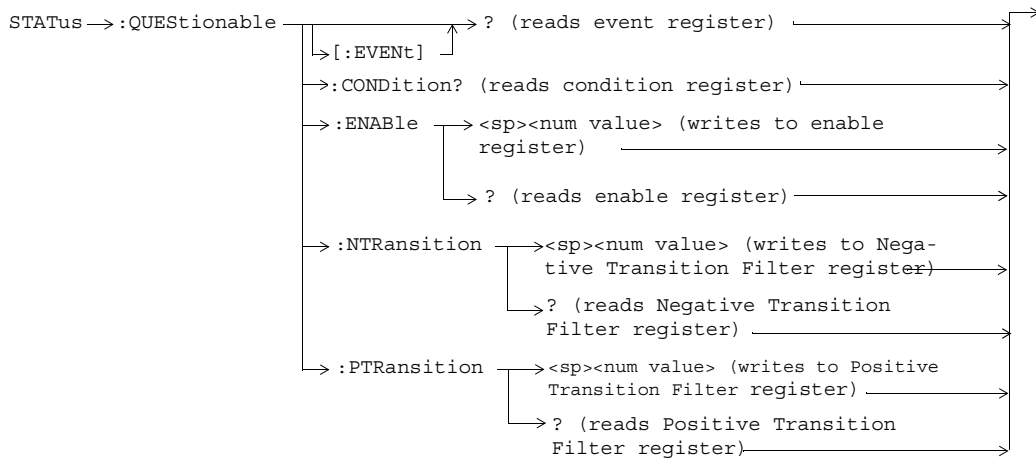


Diagram Conventions

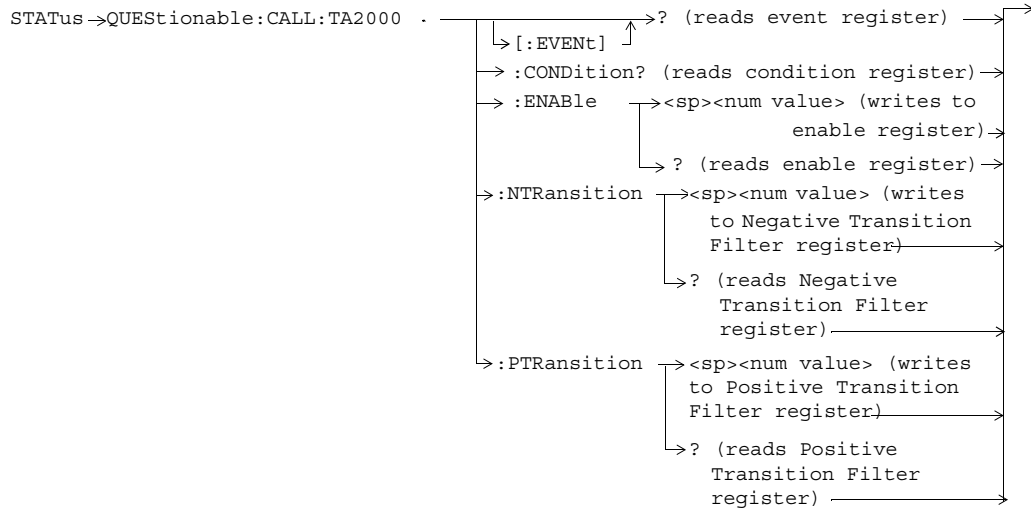
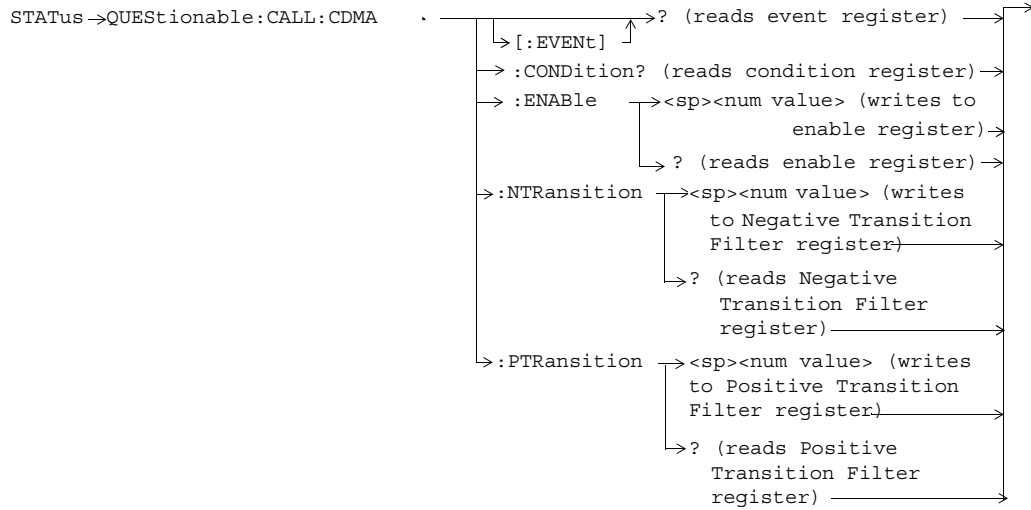


Diagram Conventions

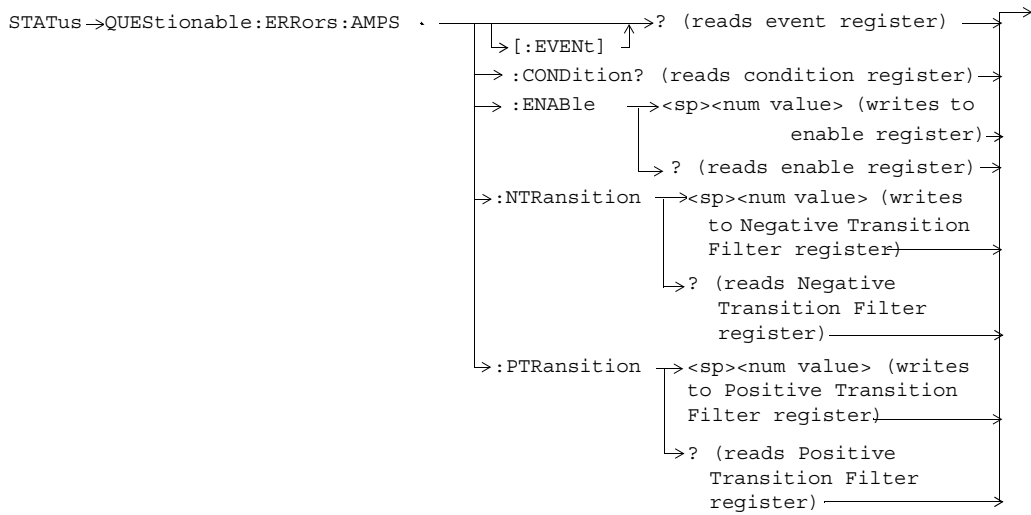
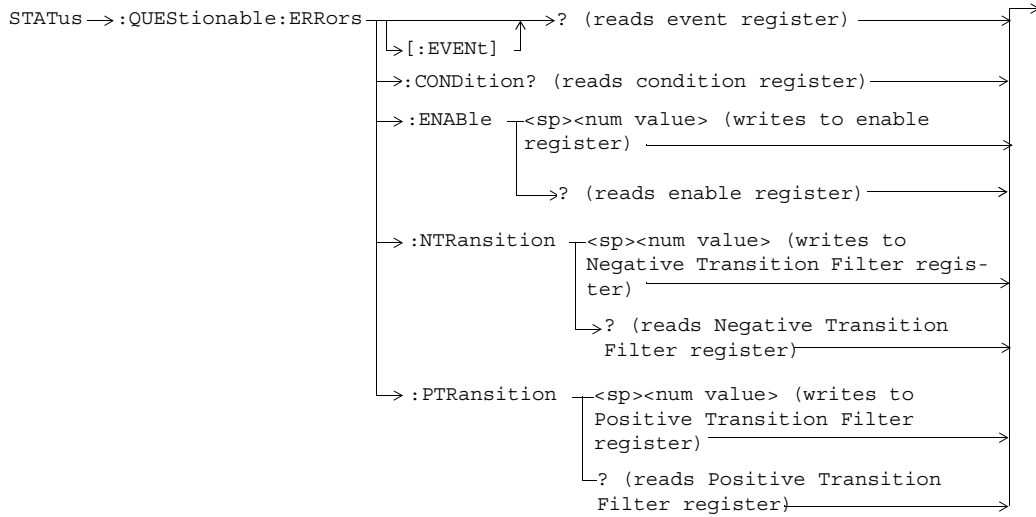


Diagram Conventions

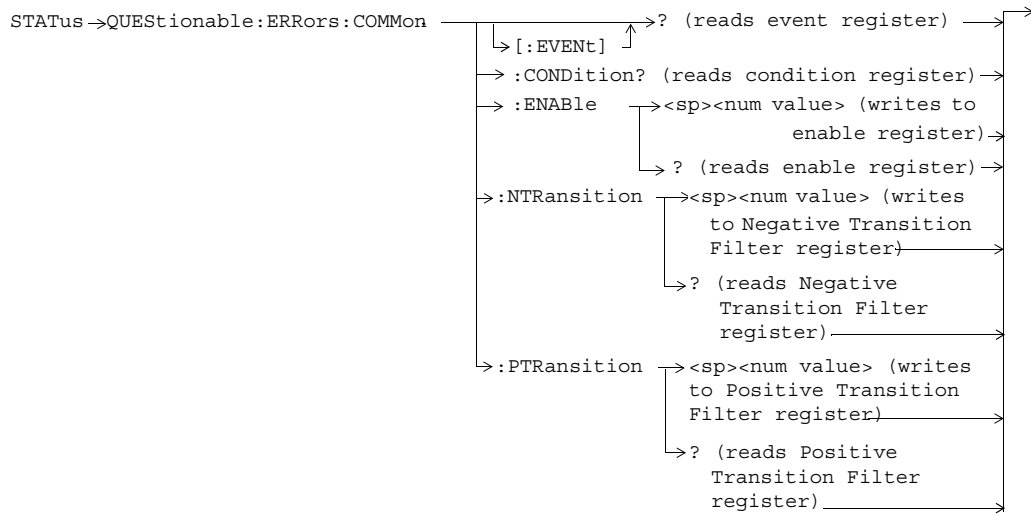
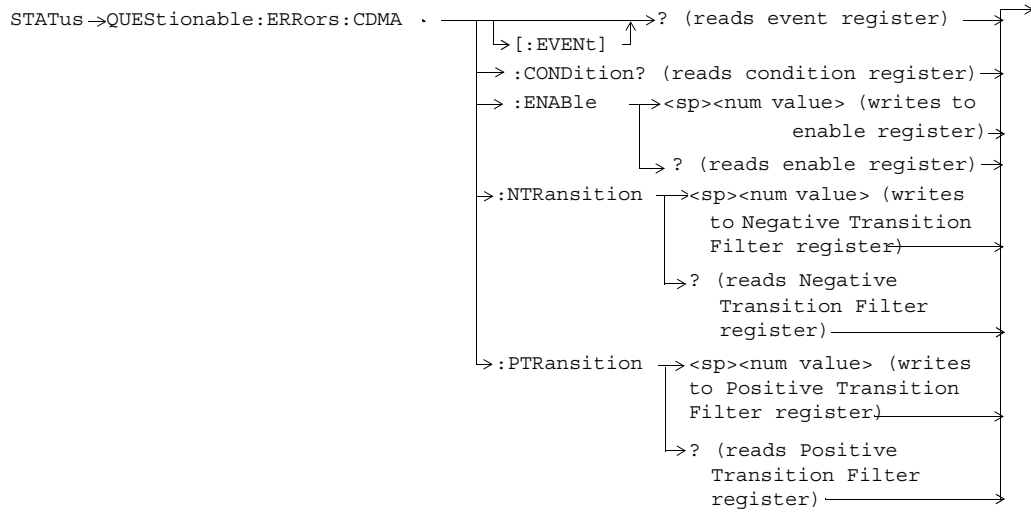


Diagram Conventions

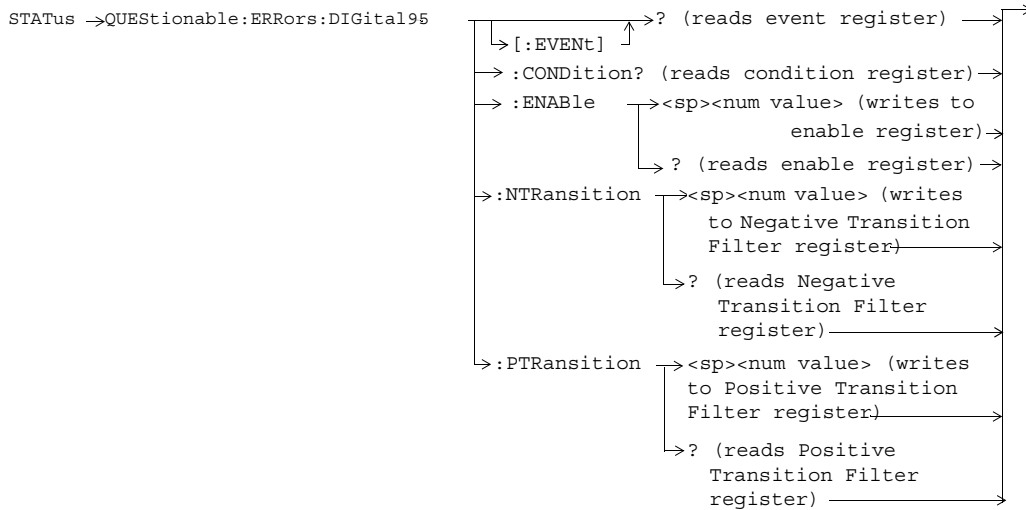
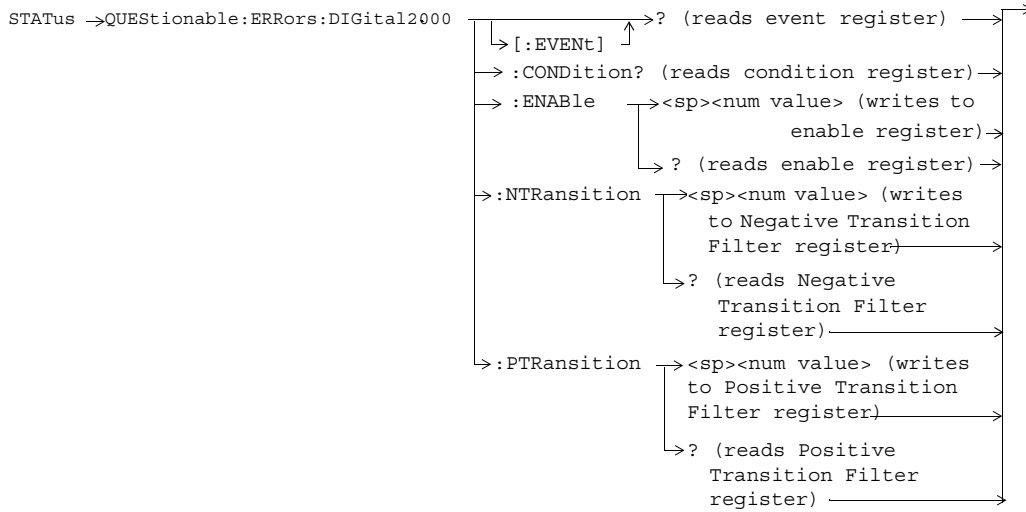


Diagram Conventions

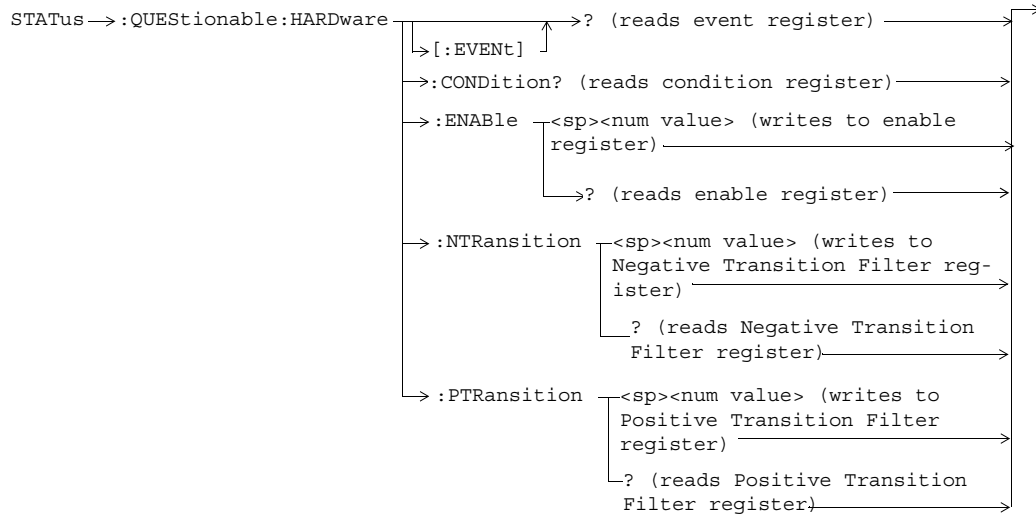
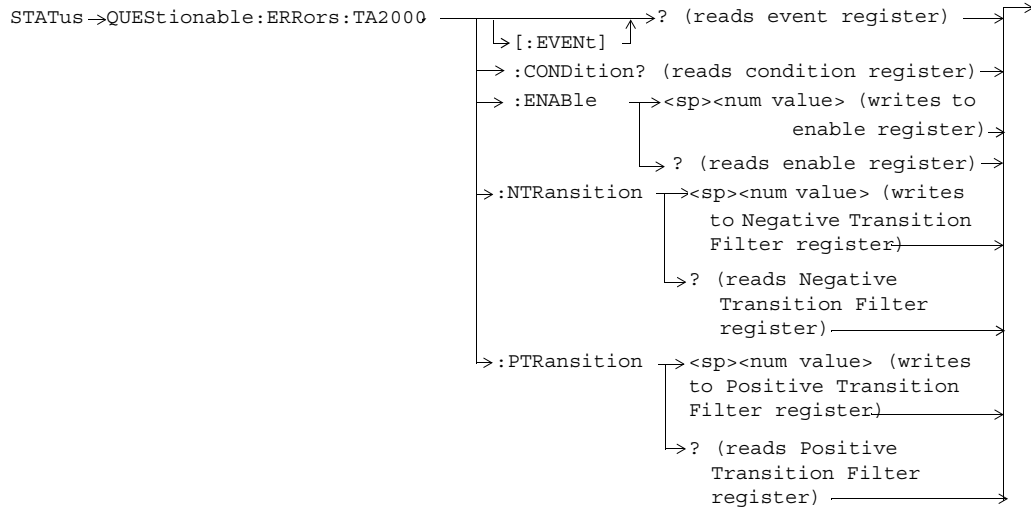


Diagram Conventions

Status Byte Register

***STB?**

*STB? _____ ↘ ↙

NOTE The Status Byte Register can also be read with a serial poll. For example, the command “Status_byte = SPOLL(714)” would perform a serial poll of the Status Byte Register, returning and releasing RQS (bit 6).

Status Byte Register Bit Assignments

Bit Number	Binary Weighting	Label	Description
7	128	STATus: OPERation	Summarizes the STATus: OPERation Status Register, which fans out to the NMRReady and CALL Status Registers.
6	64	RQS (SRQ TRUE?)/Master Summary Status	RQS is read by a serial poll (SPOLL) Master Summary Status is read by a *STB? query - defined by IEEE 488.2
5	32	Standard Event Status Register	Summarizes the Standard Event Status Register
4	16	Message Available	SCPI - Defined
3	8	STATus: QUEStionable Status Register	Summary Message comes from the STATus: QUEStionable Status Register, which fans out to the CALL and HARDware Status Registers
2	4	Error/ Event Queue	SCPI - Defined
1	2	Reserved	
0	1	Reserved	

Standard Event Status Register

***ESR?**

*ESR? —————> Reads and clears the Std Event Status Register. —————>

***ESE?**

*ESE? —————> Reads the Std Event Status Register Enable Register —————>

***ESE**

*ESE —————> Writes to the Std Event Status Register Enable Register —————>

“Diagram Conventions” on page 7

Diagram Conventions

Standard Event Status Register Bit Assignment

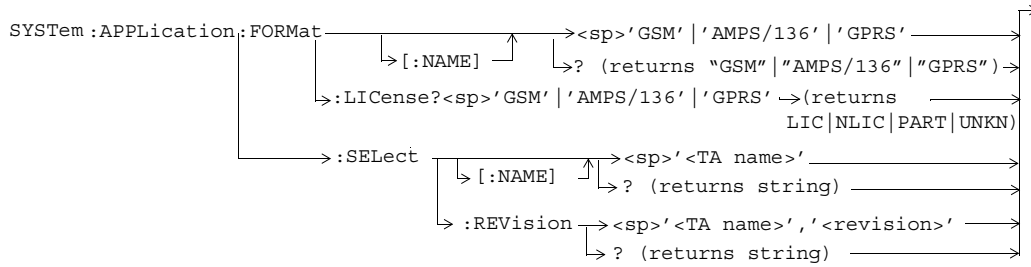
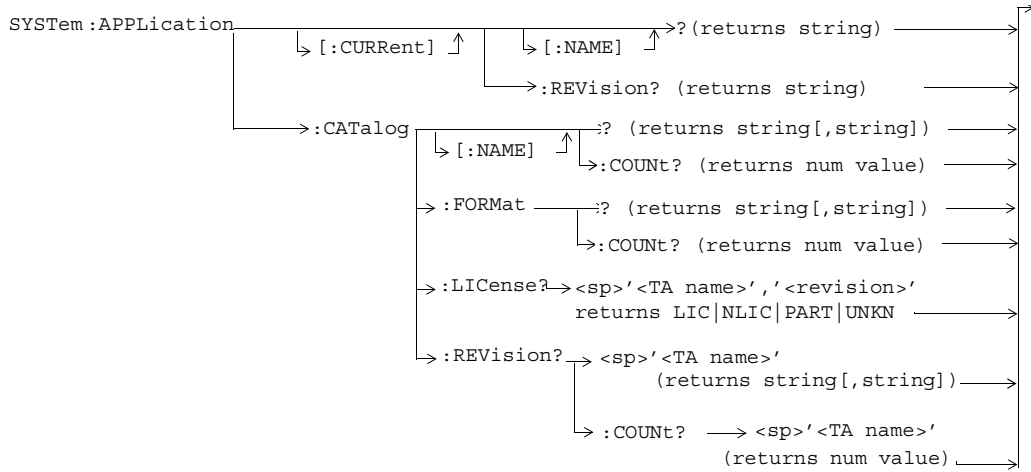
Bit Number	Binary Weighting	Condition	Description
15	32768	Reserved by IEEE.	This bit will always be 0.
14	16384	Reserved by IEEE.	This bit will always be 0.
13	8192	Reserved by IEEE.	This bit will always be 0.
12	4096	Reserved by IEEE.	This bit will always be 0.
11	2048	Reserved by IEEE.	This bit will always be 0.
10	1024	Reserved by IEEE.	This bit will always be 0.
9	512	Reserved by IEEE.	This bit will always be 0.
8	256	Reserved by IEEE.	This bit will always be 0.
7	128	Power On	This bit is set to 1 if the power supply has been turned off and on since the last time this register was read or otherwise cleared. Defined in "IEEE Std. 488.2-1992", 11.5.1.1.2
6	64	Reserved for future use.	This bit will always be 0.
5	32	Command Error	This bit is set to 1 if the test set detects an error while trying to process a command. The following events cause a command error: <ul style="list-style-type: none"> • An IEEE 488.2 syntax error. The test set received a message that did not follow the syntax defined by the standard. • A semantic error. For example the test set received an incorrectly spelled command. • The test set received a group execution trigger (GET) inside a program message
4	16	Execution Error	This bit is set to 1 if the test set detects an error while trying to execute a command. The following events cause an execution error: <ul style="list-style-type: none"> • A <PROGRAM DATA> element received in a command is outside the legal range for the test set, or it is inconsistent with the operation of the test set. • The test set could not execute a valid command due to some test set hardware/firmware condition.
3	8	Device Dependent Error	This bit is set to 1 if a test set operation does not execute properly due to an internal condition (such as, overrange). This bit indicates that the error was not a command, query, or execution error.

Diagram Conventions

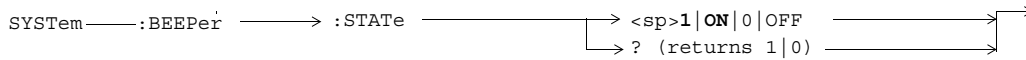
Bit Number	Binary Weighting	Condition	Description
2	4	Query Error	This bit is set to 1 if an error has occurred while trying to read the test set's output queue. The following events cause a query error: <ul style="list-style-type: none">• An attempt is made to read data from the output queue when no data is present or is pending.• Data in the output queue has been lost. An example of this would be an output queue overflow.
1	2	Reserved for future use.	This bit will always be 0.
0	1	Operation Complete	This bit is set to 1 when the test set has completed all pending operations and is ready to accept new commands. This bit is only generated in response to the *OPC IEEE 488.2 common command.

Diagram Conventions

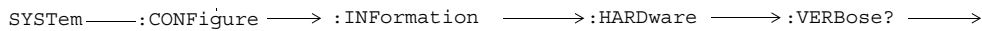
SYSTEM:APPLICATION



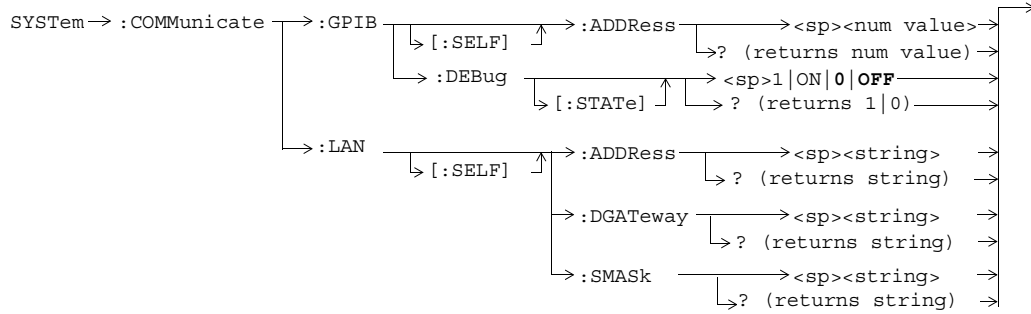
SYSTEM:BEEPER



SYSTEM:CONFIGURE:INFORMATION:HARDWARE:VERBOSE?



SYSTEM:COMMunicate



SYSTEM:CORRection

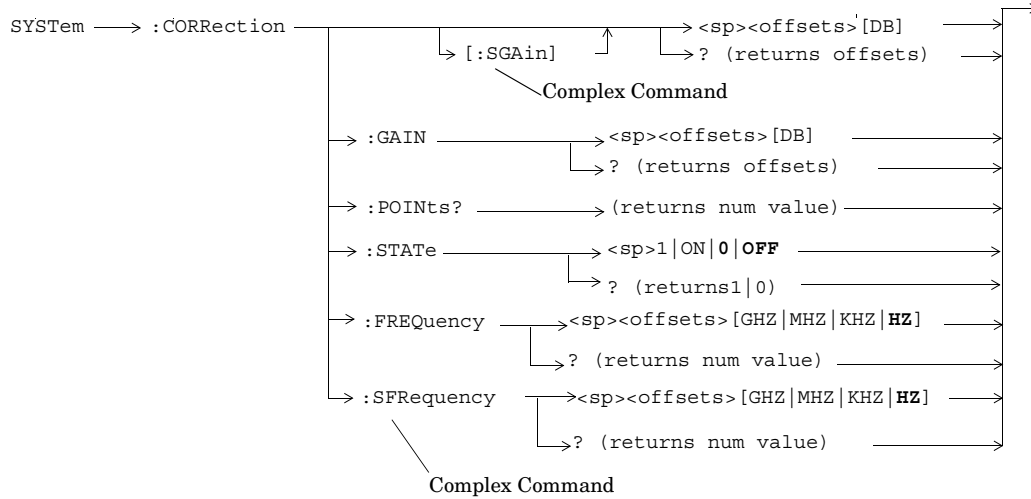
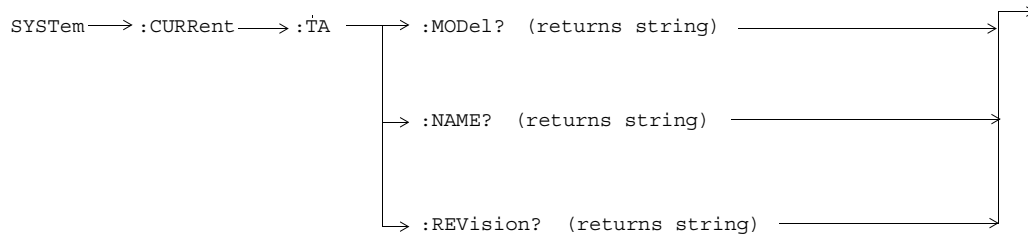
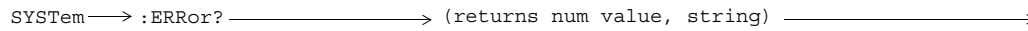


Diagram Conventions

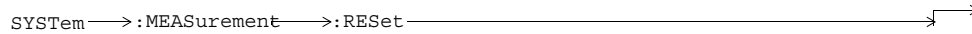
SYSTEM:CURRENT:TA



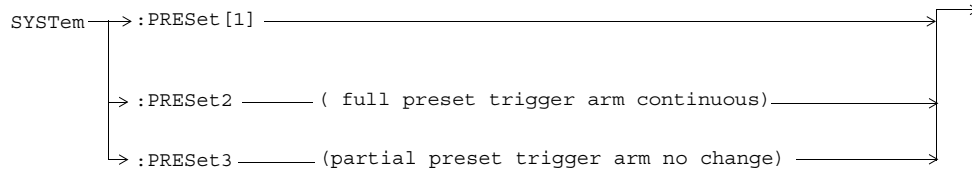
SYSTEM:ERROR?



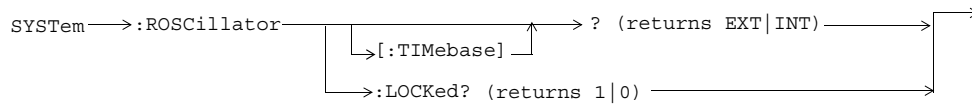
SYSTEM:MEASUREMENT:RESet



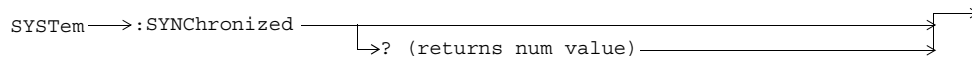
SYSTEM:PRESet



SYSTEM:ROSCillator



SYSTEM:SYNChronized



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 returned 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

Diagram Conventions

***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.

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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.

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