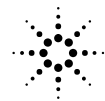


Agilent Technologies 8960 Series 10 E5515B,C Wireless Communications Test Set
Agilent Technologies E1960A GSM Mobile Test Application
Agilent Technologies E1964A GPRS Mobile Test Application

GPIB Command Syntax

GSM Test Application Revision A.07
GPRS Test Application Revision A.01
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<http://www.agilent.com/find/8960support/>



Agilent Technologies

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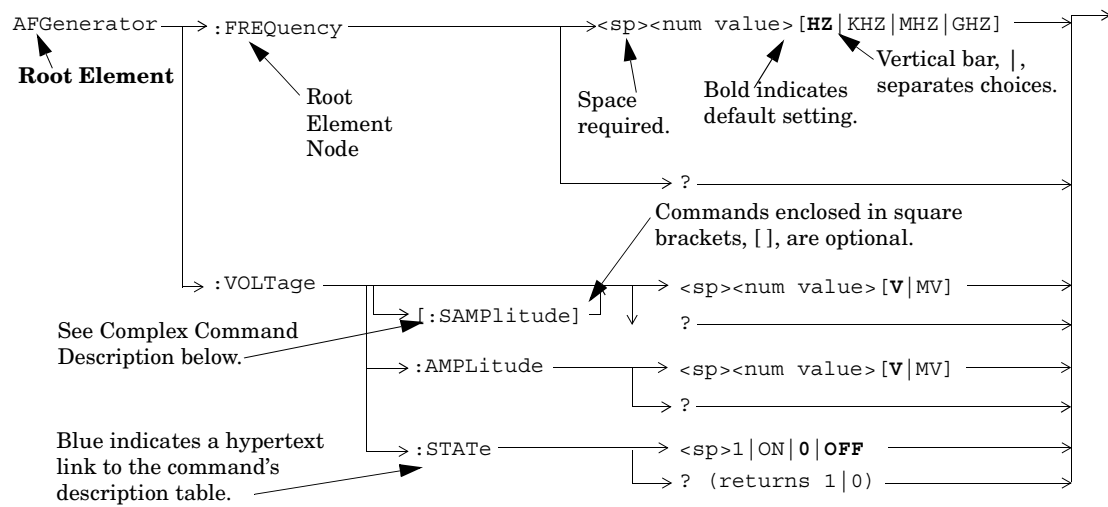
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Diagram Conventions

Description



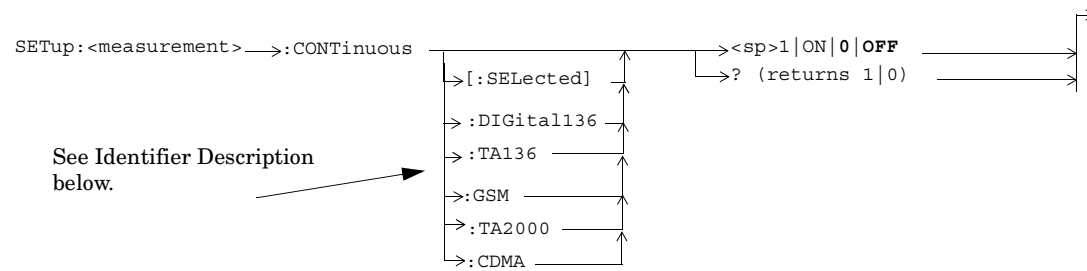


Diagram Description

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.

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

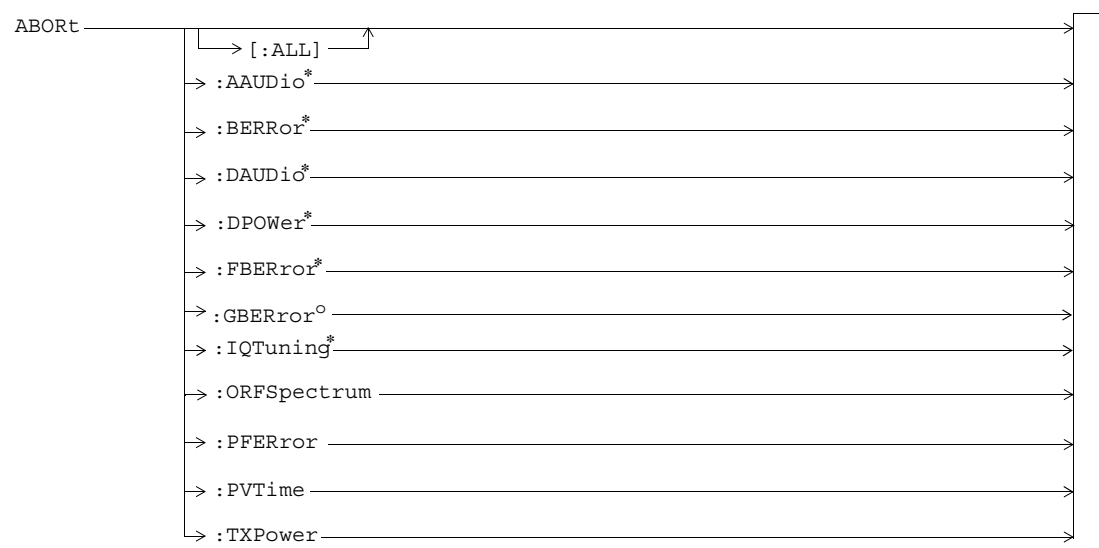
It is recommended that you set the Test Set's operating environment to debug. To set the Test Set debug mode to "ON" use the following syntax:

```
SYSTem:COMMunicate:GPIB:DEBug ON
```

Units-of-Measure

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

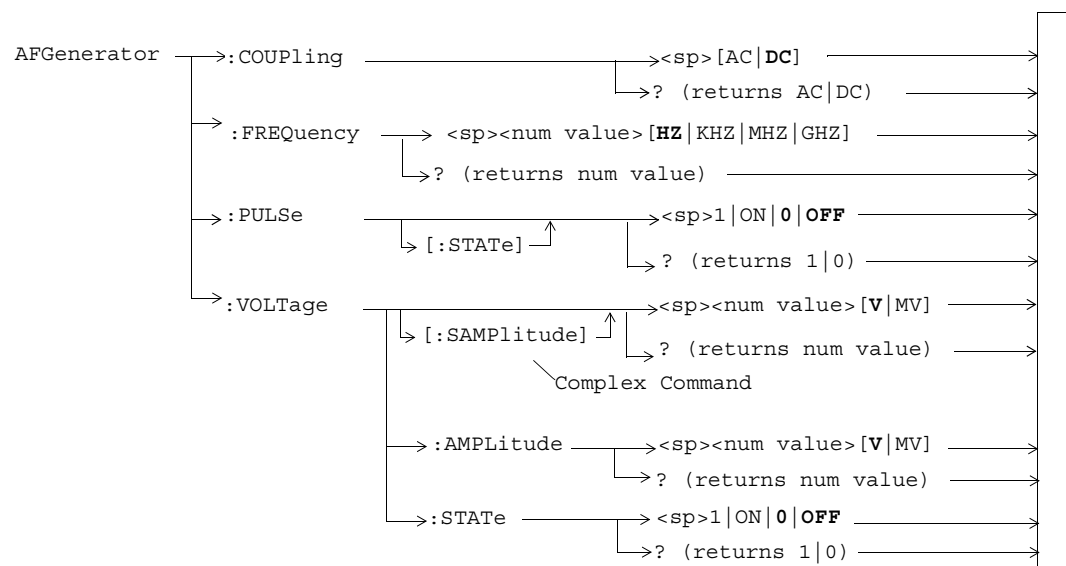
ABORT



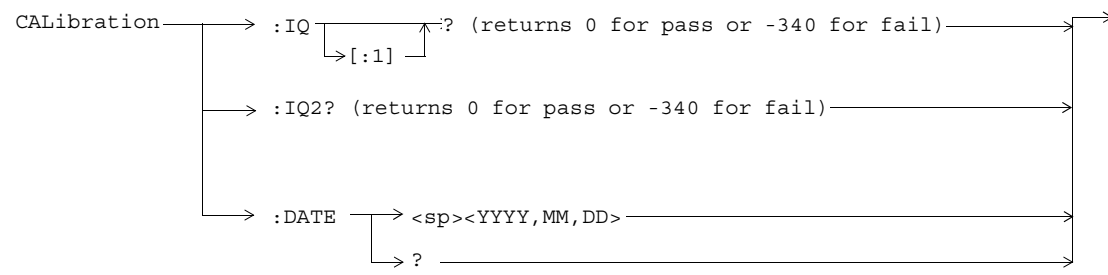
* Not applicable to GPRS.

° Not applicable to GSM.

AFGenerator



CALibration

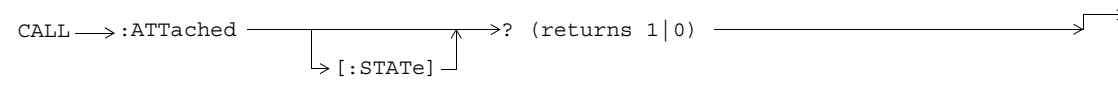


CALL:ACTivated

CALL $\xrightarrow{[:CELL]}$:ACTivated $\xrightarrow{[:STATe]}$ $\xrightarrow{<sp>1|ON|0|OFF}$ $\xrightarrow{? (returns 1|0)}$

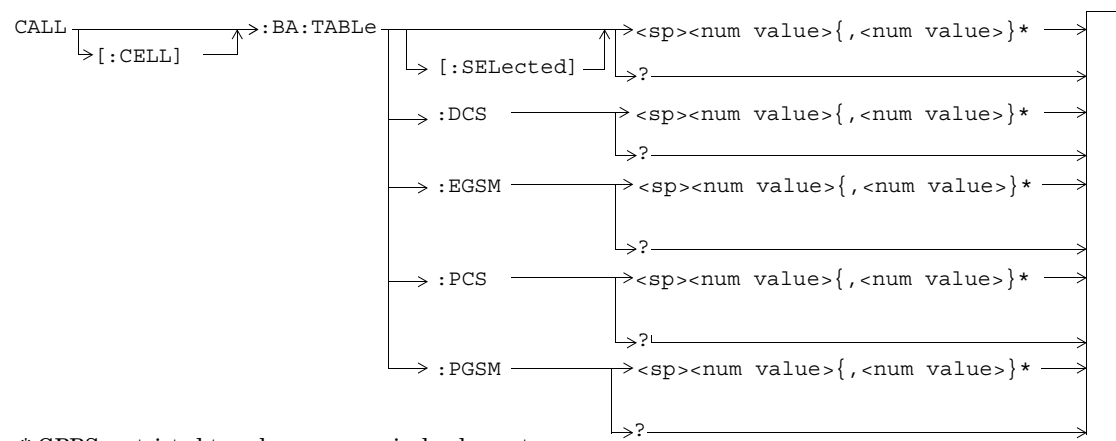
This command is not applicable to GPRS.

CALL:ATTached

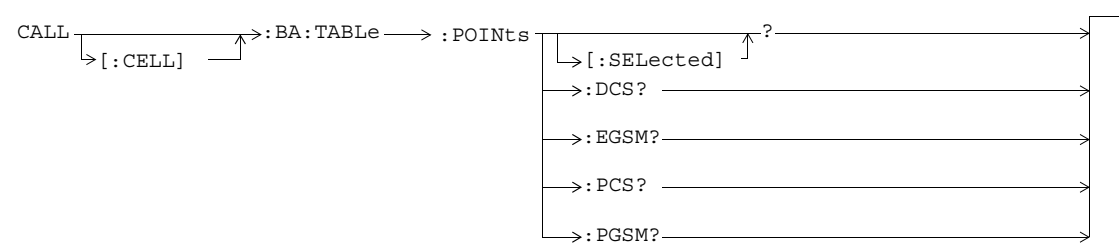


This diagram is not applicable to GSM.

CALL:BA

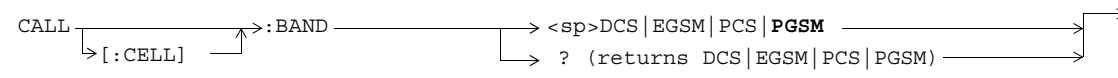


* GPRS restricted to only one numerical value entry.

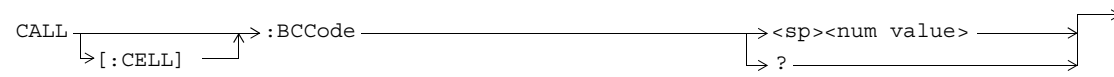


These commands are not applicable to GPRS.

CALL:BAND

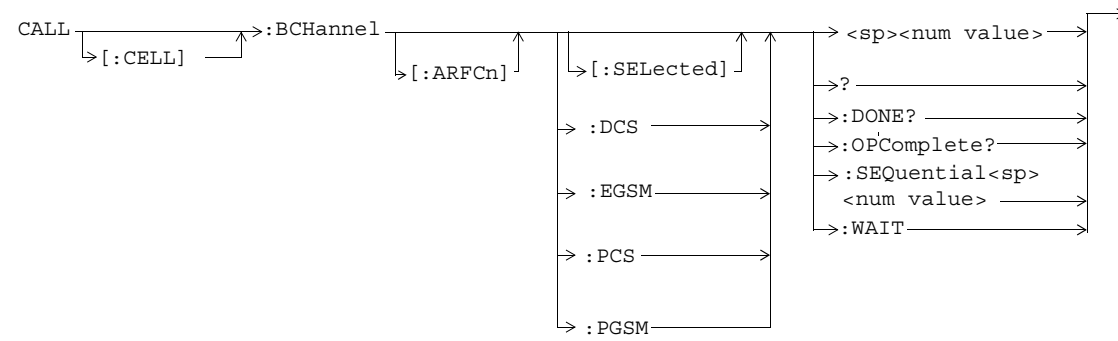


CALL:BCCode

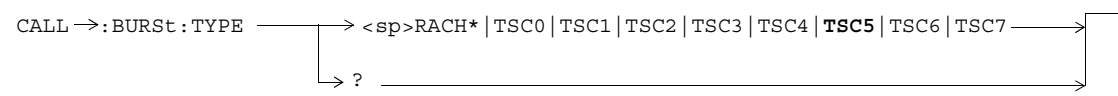
CALL  :BCCode <sp><num value> ?

This command is not applicable to GPRS.

CALL:BCHannel

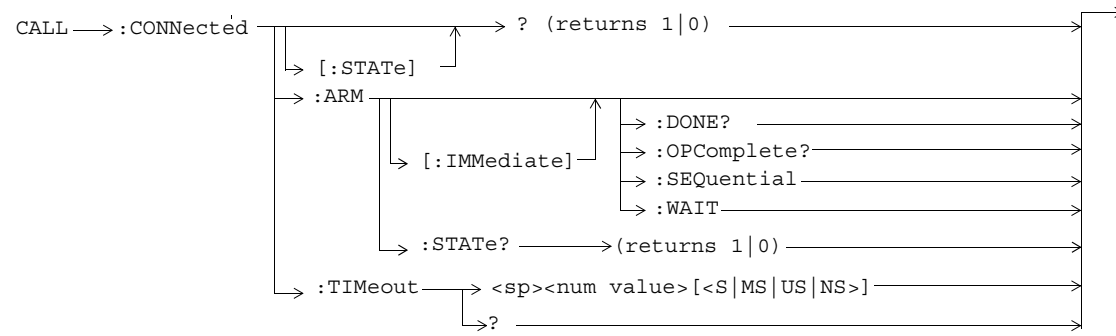


CALL:BURSt



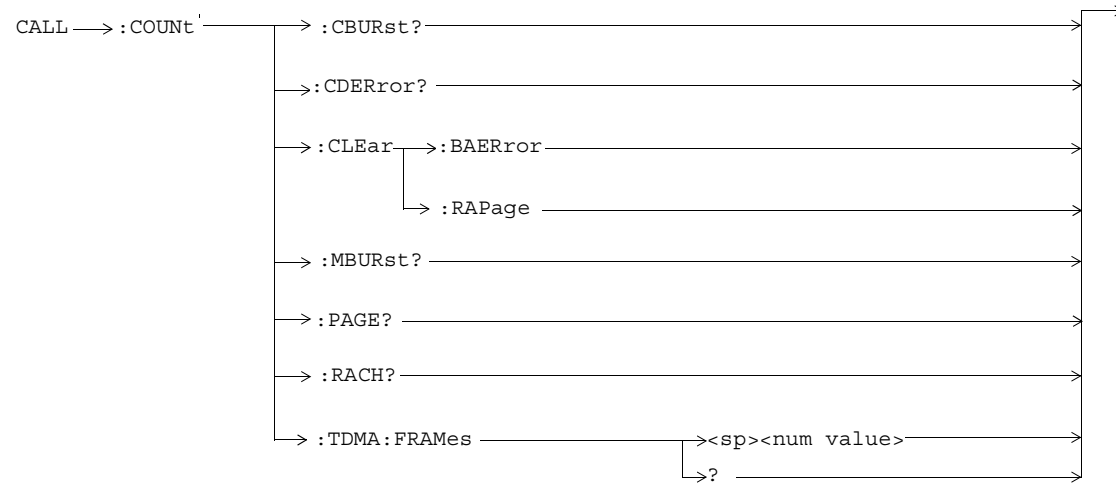
* Not applicable to GPRS.

CALL:CONNEcted

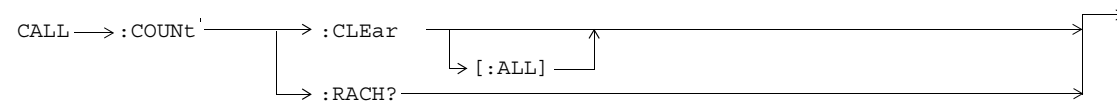


These commands are not applicable to GPRS.

CALL:COUNT

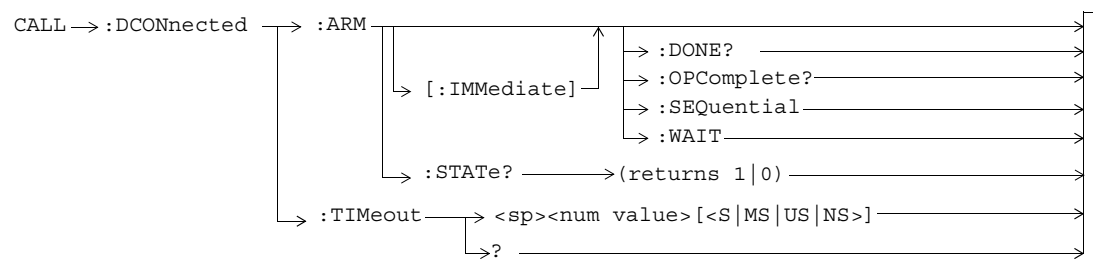


These commands are not applicable to GPRS.



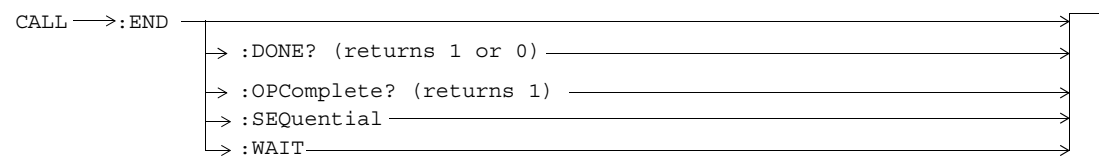
These commands are not applicable to GSM.

CALL:DCONnected



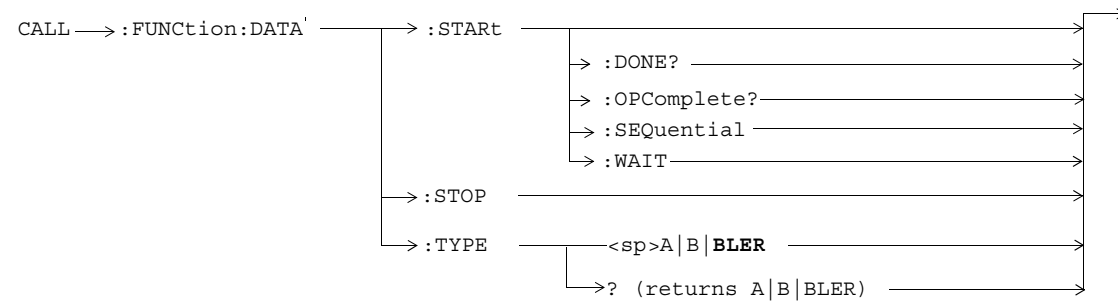
These commands are not applicable to GSM.

CALL:END



These commands are not applicable to GPRS.

CALL:FUNCTION

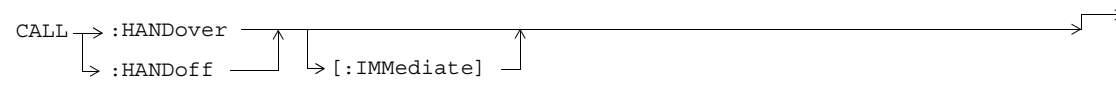


These commands are not applicable to GSM.

CALL → :FUNCTION:DOWNlink → <sp>**BCH**|BCHTCH|CW →
→? (returns BCH|BCHTCH|CW) →

This command is not applicable to GPRS.

CALL:HANDover | HANDoff



This command is not applicable to GSM.

CALL:IMEI

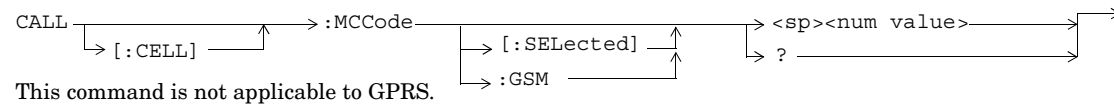
CALL → :IMEI:AUTO → <sp>1|ON|0|OFF →
This command is not applicable to GPRS. → ? (returns 1|0) →

CALL:LACode

CALL [:CELL] :LACode <sp><num value> ?

This command is not applicable to GPRS.

CALL:MCCode



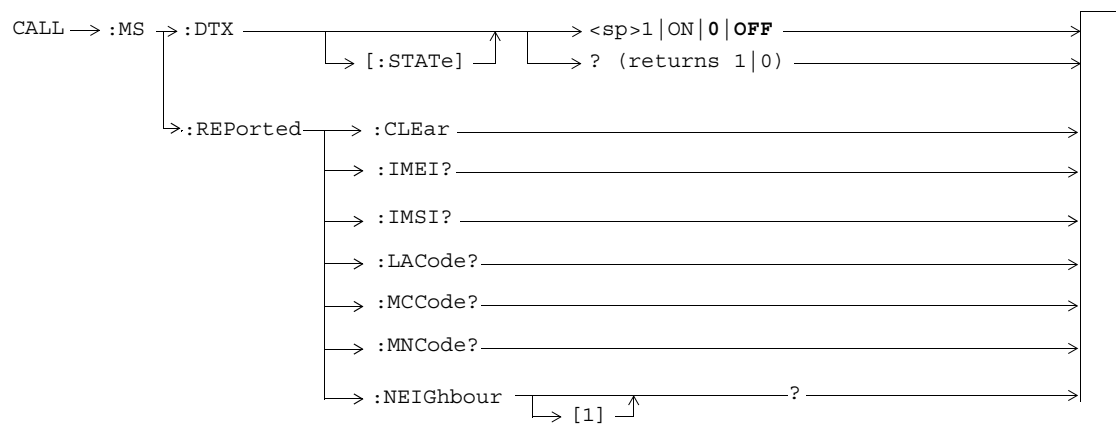
This command is not applicable to GPRS.

CALL:MNCcode

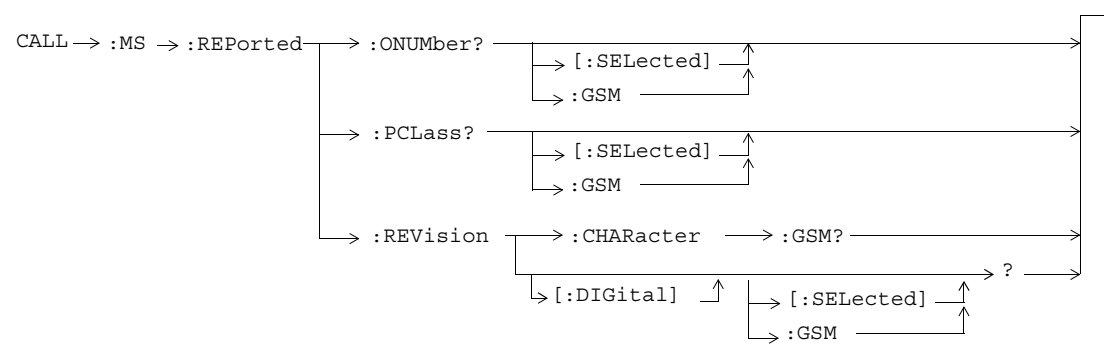
CALL [:CELL] :MNCcode <sp><num value> ?

This command is not applicable to GPRS.

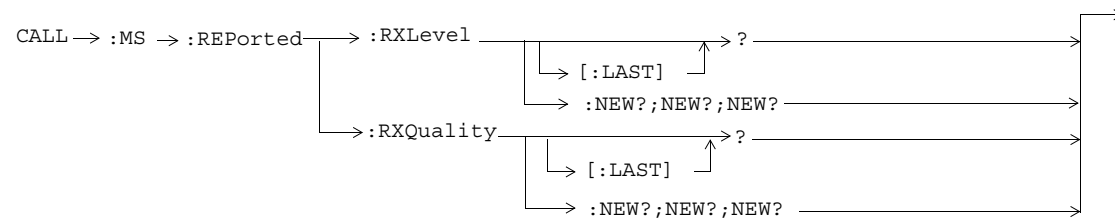
CALL:MS



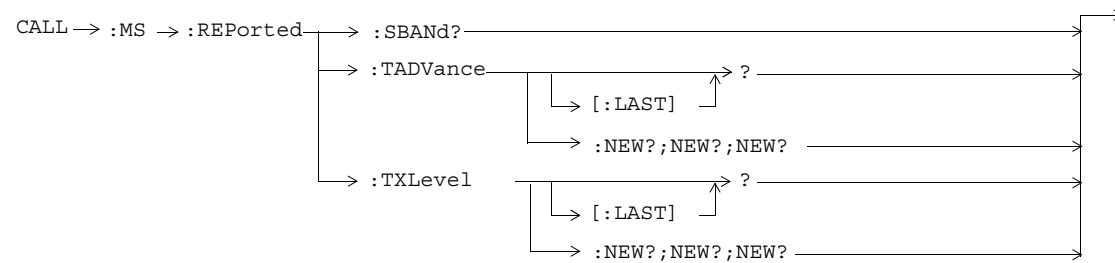
These commands are not applicable to GPRS.

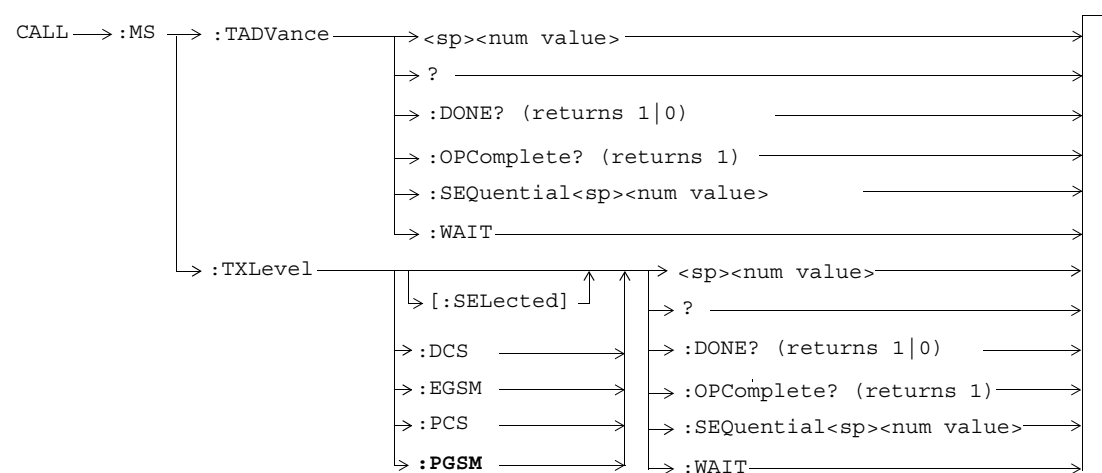


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.





These commands are not applicable to GPRS.

CALL → :MS → :TX → :BURSt → :GPLength → ><sp>GPL9 | GPL10 →
→ ? (returns GPL9 | GPL10) →

These commands are not applicable to GSM.

CALL:NCCode

CALL [:CELL] :NCCode <sp><num value> ?

This command is not applicable to GPRS.

CALL:OPERating

CALL → :OPERating:MODE → <sp>CELL | OFF | PBTest | PBPTest →
→ ? →

This command is not applicable to GSM.

CALL → :OPERating:MODE → <sp>CELL | TEST →
→ ? →

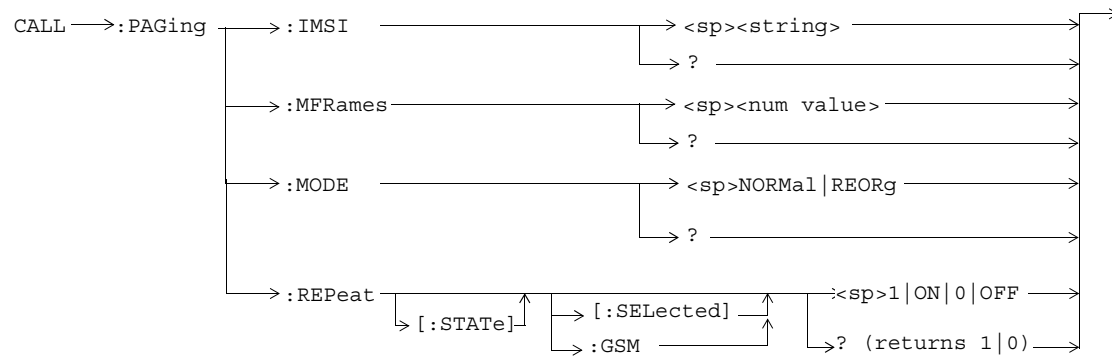
This command is not applicable to GPRS.

CALL:ORIGinate



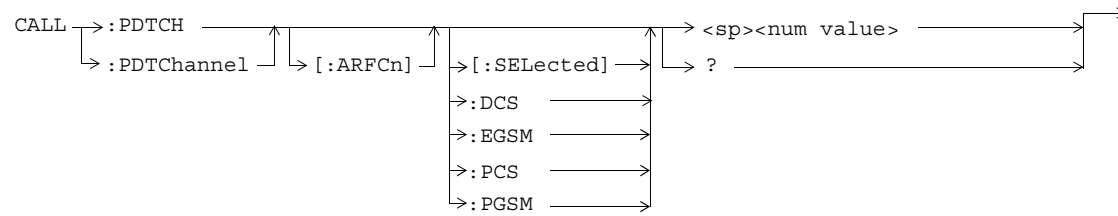
These commands are not applicable to GPRS.

CALL:PAGing

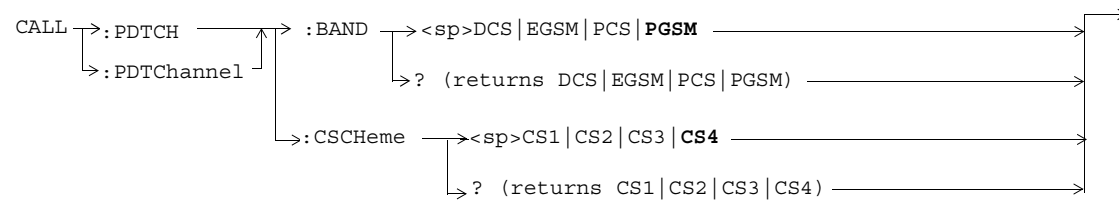


These commands are not applicable to GPRS.

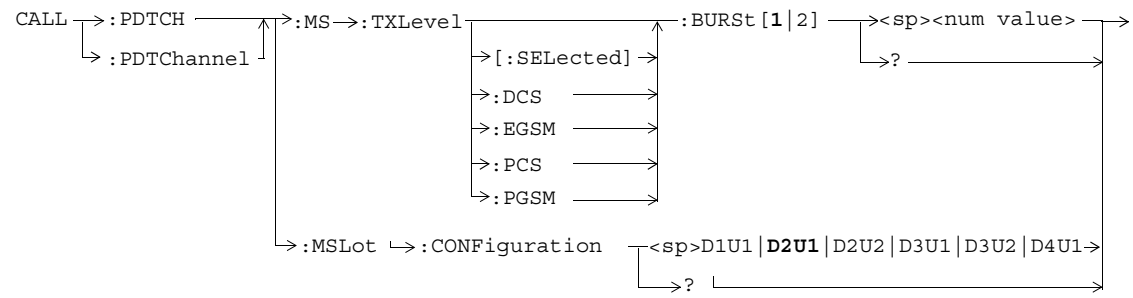
CALL:PDTCH | PDTChannel



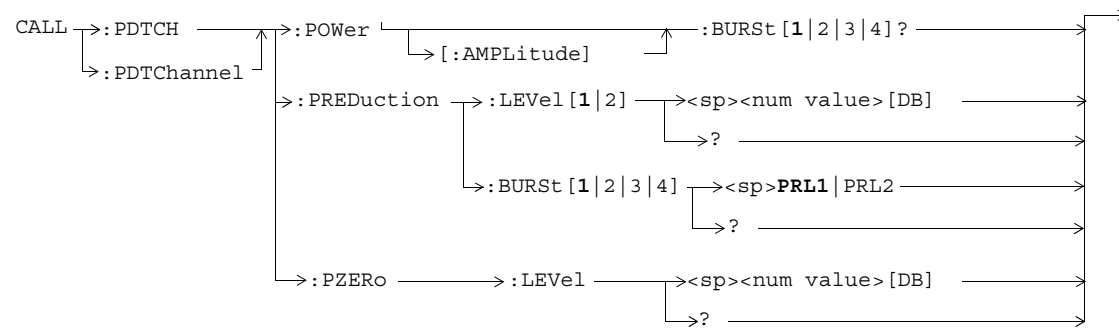
These commands are not applicable to GSM.



These commands are not applicable to GSM.

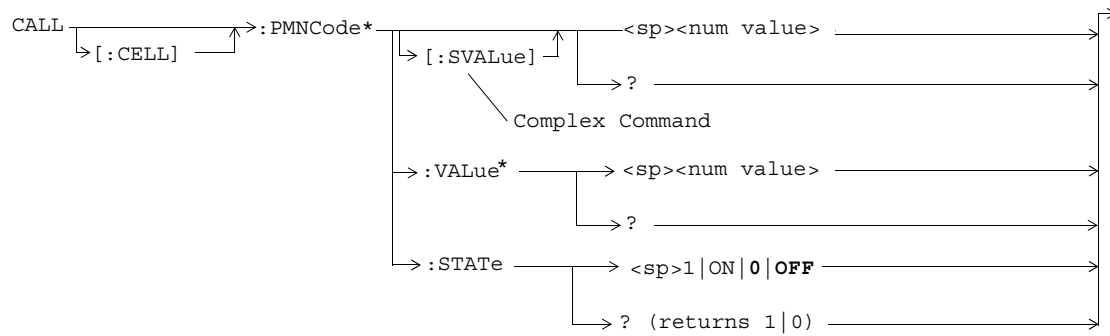


These commands are not applicable to GSM.



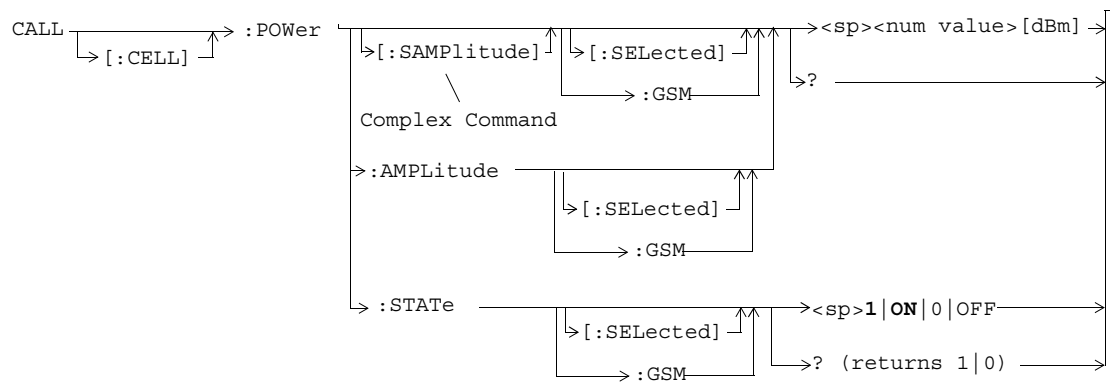
These commands are not applicable to GSM.

CALL:PMNCode

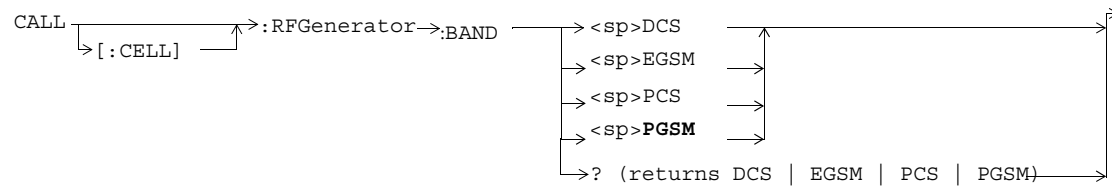


*These commands are not applicable to GPRS.

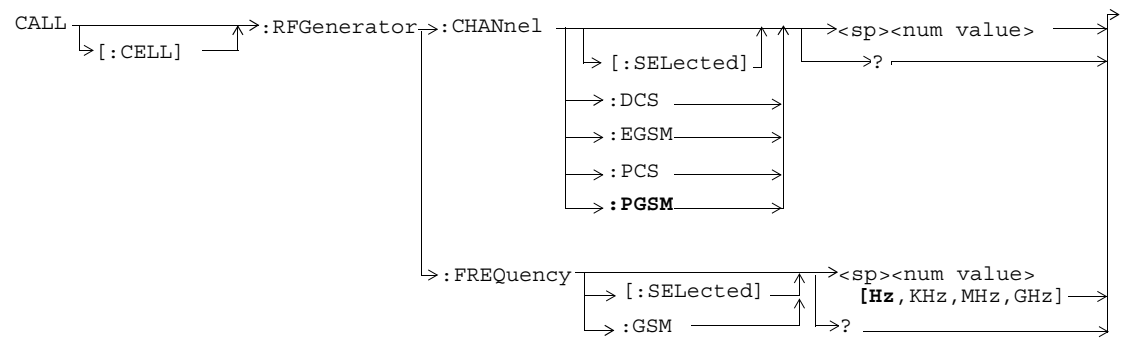
CALL:POWer



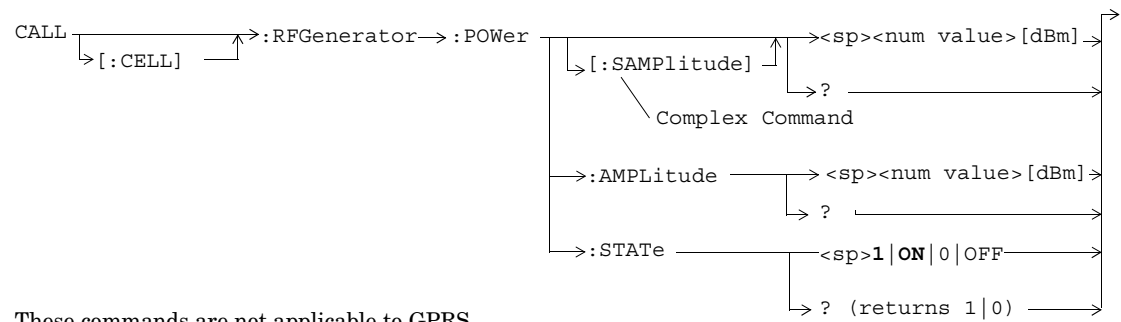
CALL:RFGenerator



These commands are not applicable to GPRS.

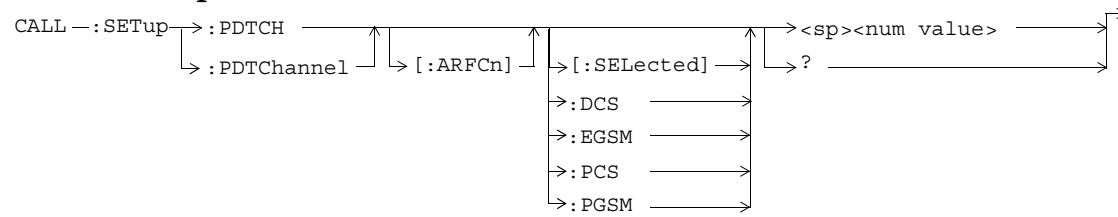


These commands are not applicable to GPRS.

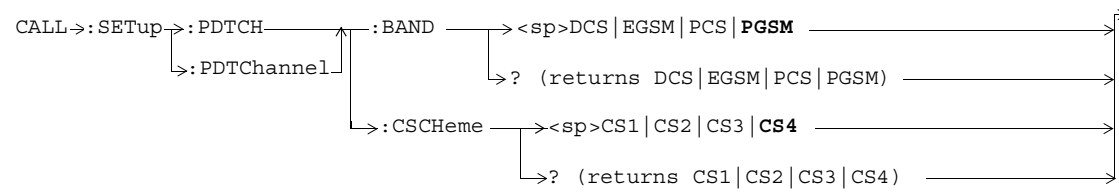


These commands are not applicable to GPRS.

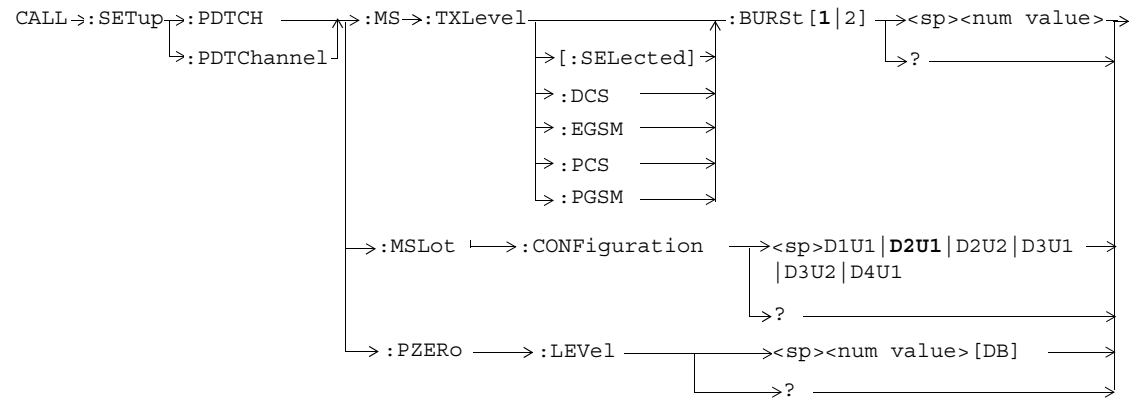
CALL:SETup



These commands are not applicable to GSM.



These commands are not applicable to GSM.



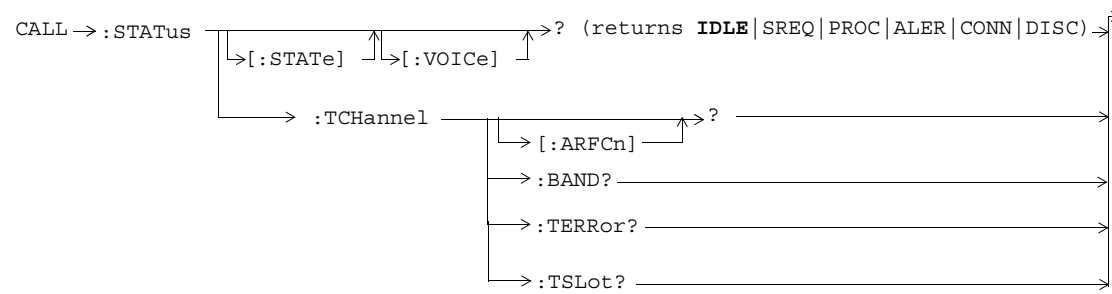
These commands are not applicable to GSM.

CALL:SIGNaling

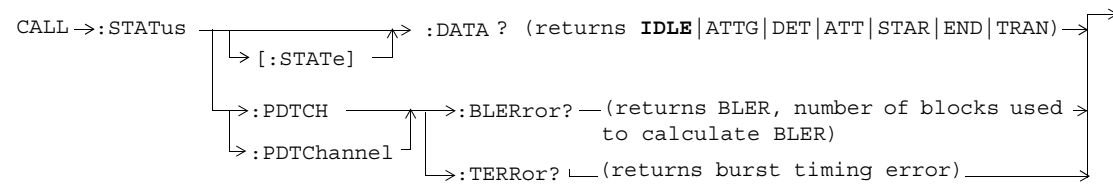
CALL →:SIGNaling→:MS →:TXLevel→:FACCH →<sp><1|ON|0|OFF> →
↳? (returns 1|0) →

This command is not applicable to GPRS.

CALL:STATUs

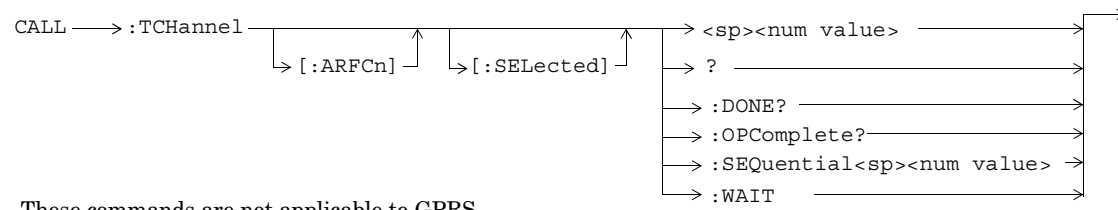


These commands are not applicable to GPRS.

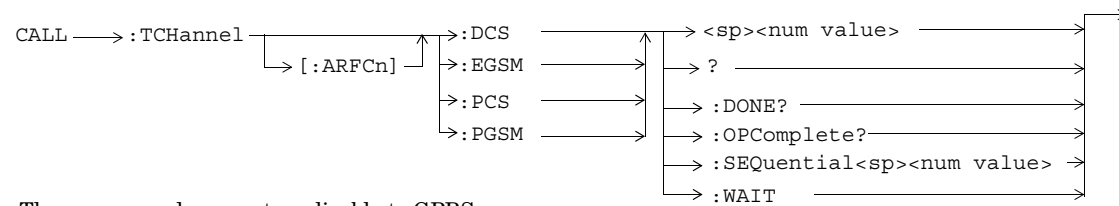


These commands are not applicable to GSM.

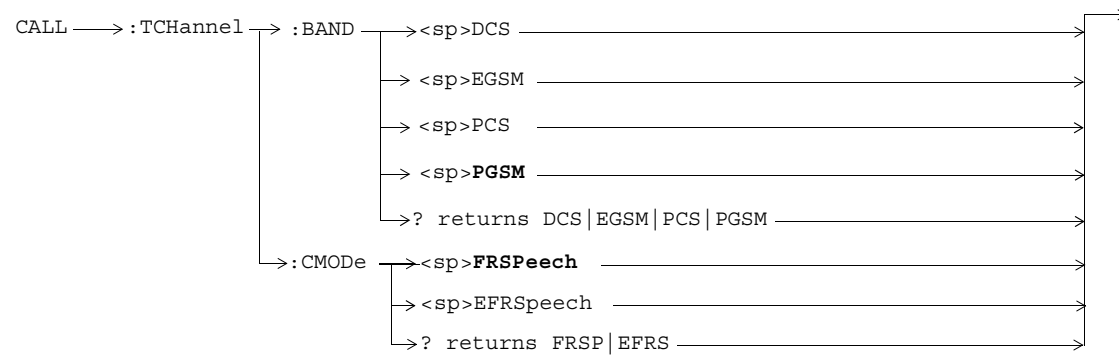
CALL:TCHannel



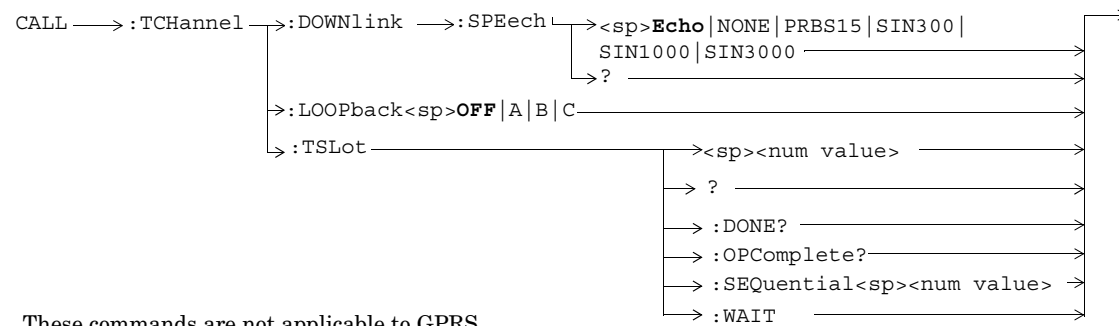
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

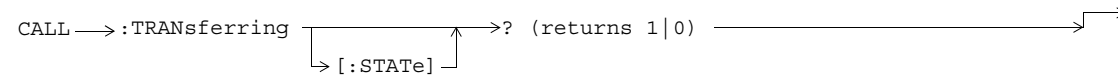


These commands are not applicable to GPRS.



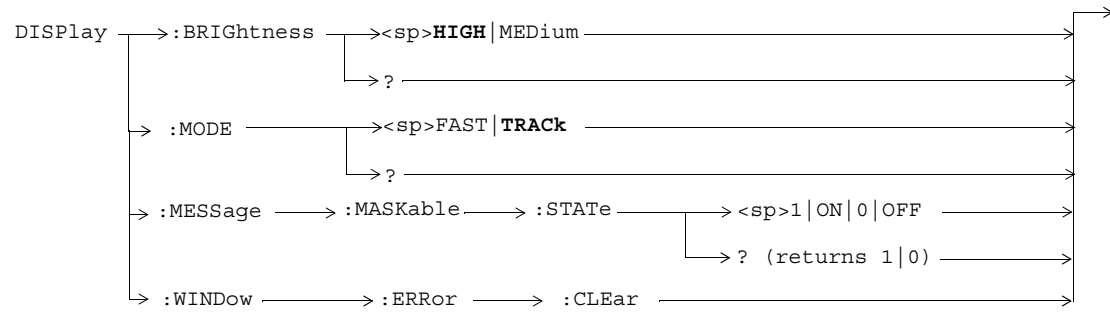
These commands are not applicable to GPRS.

CALL:TRANsferring

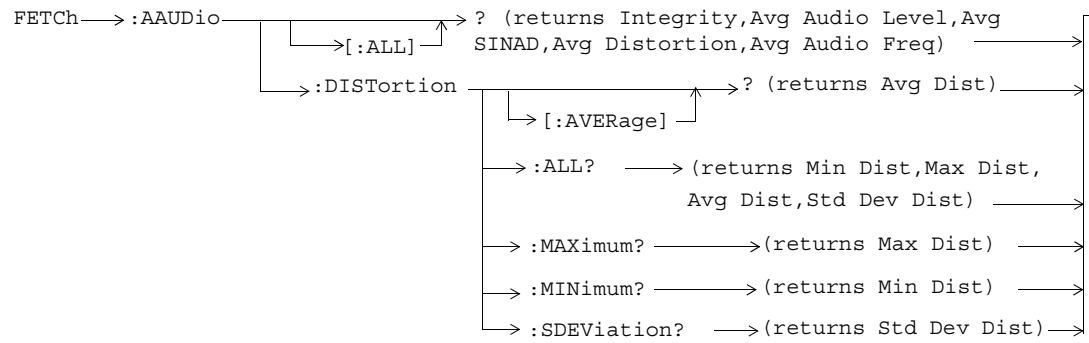


This diagram is not applicable to GSM.

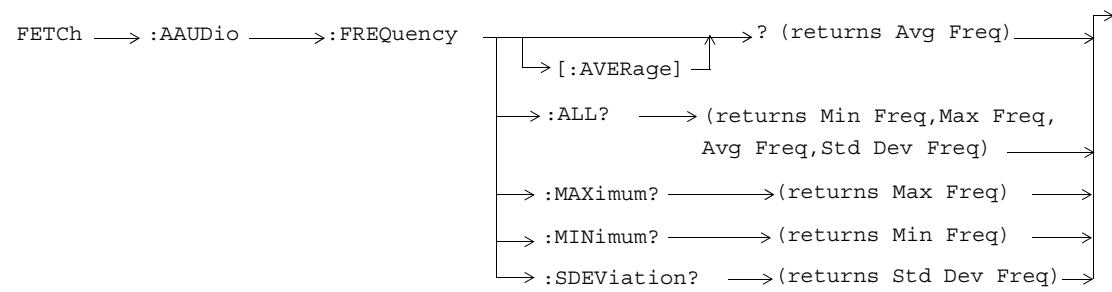
DISPlay



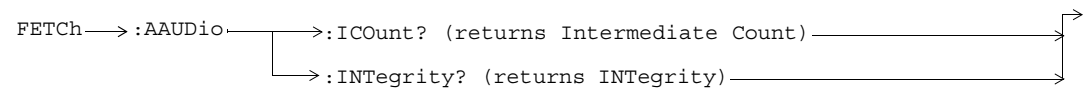
FETCH:AAUDIO



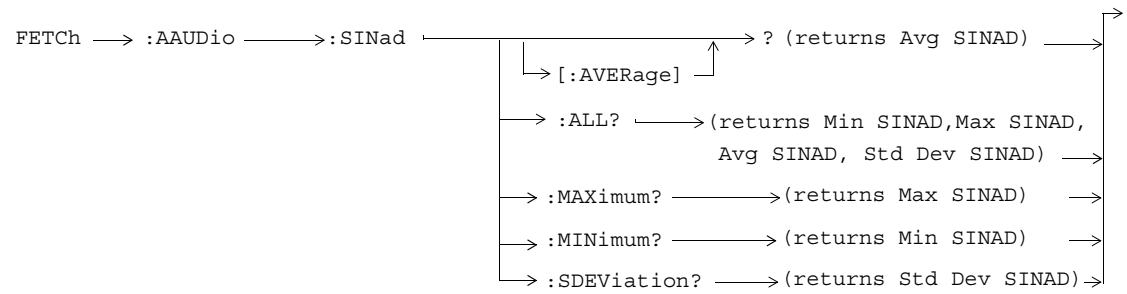
These commands are not applicable to GPRS.



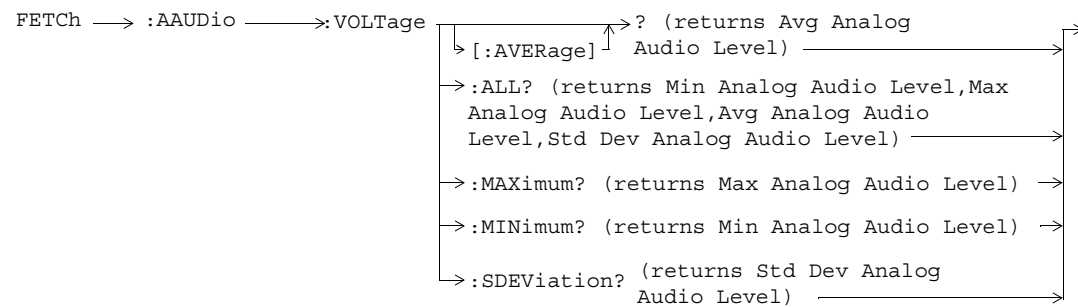
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

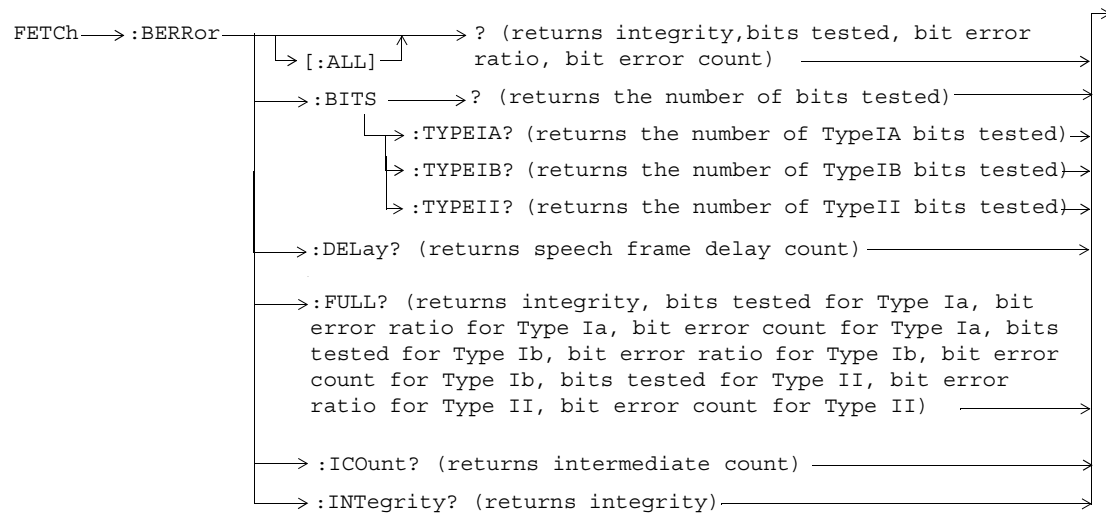


These commands are not applicable to GPRS.

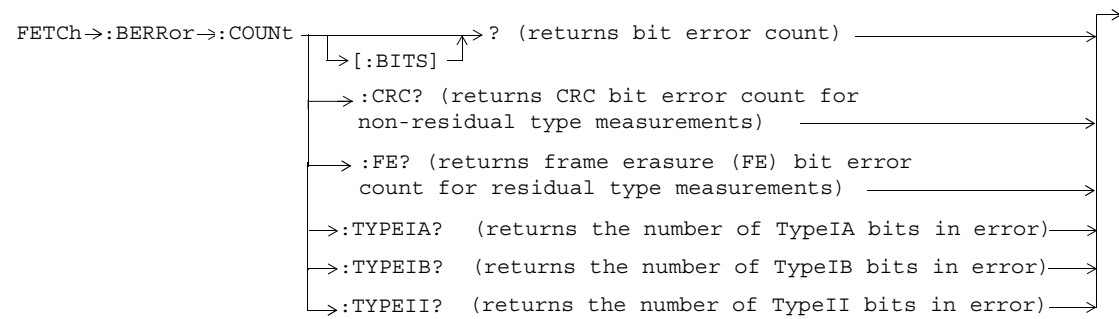


These commands are not applicable to GPRS.

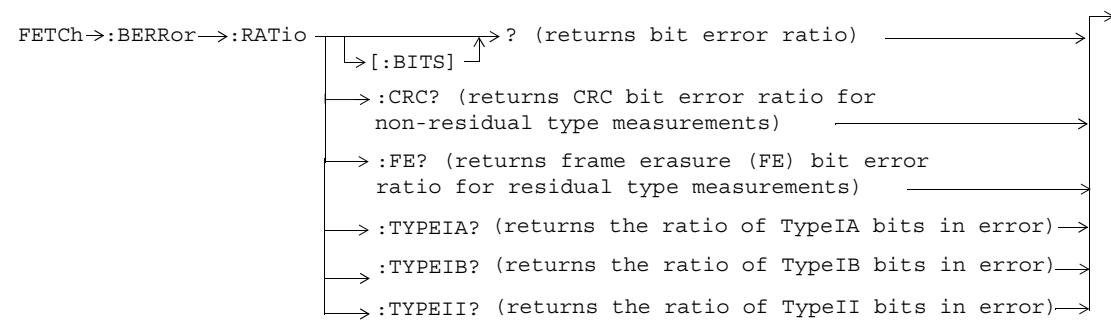
FETCH:BERRor



These commands are not applicable to GPRS.

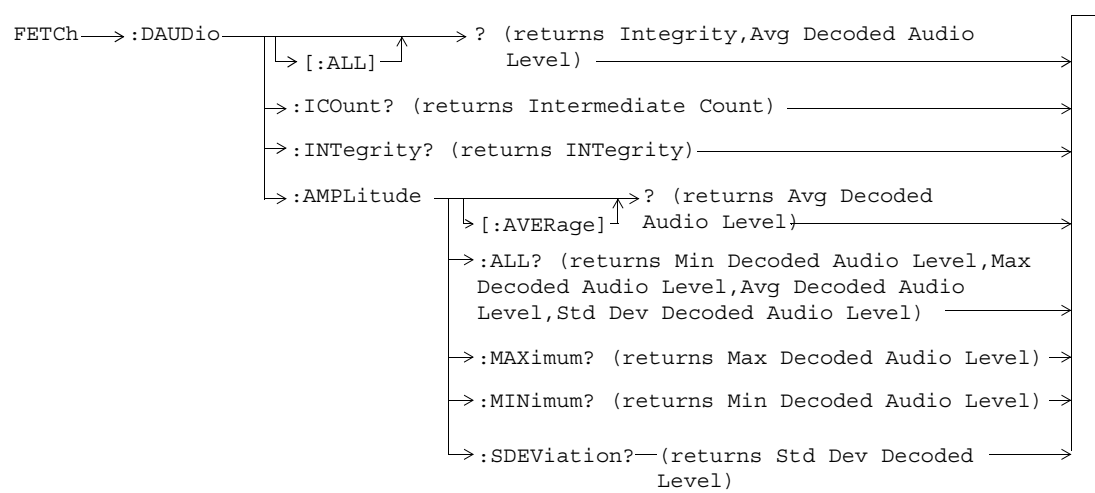


These commands are not applicable to GPRS.



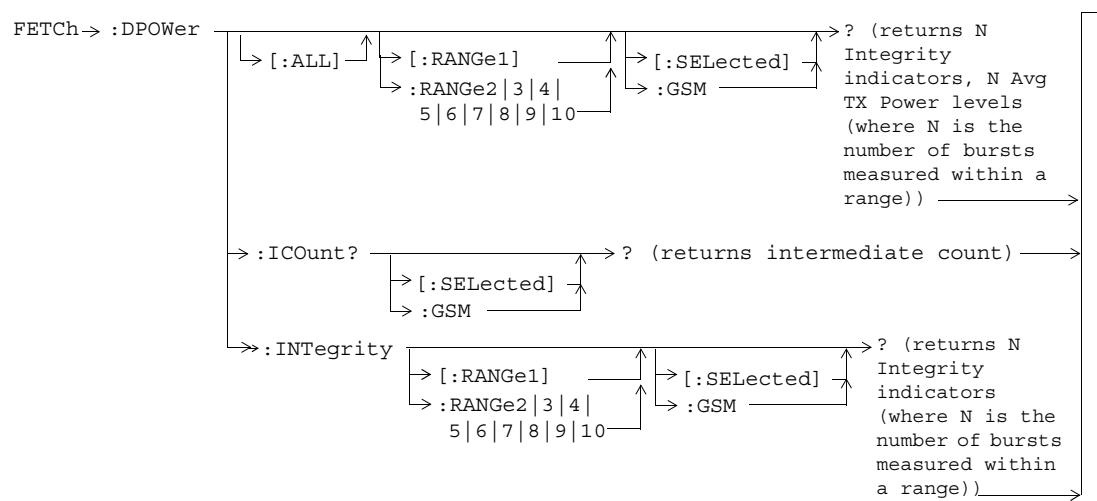
These commands are not applicable to GPRS.

FETCh:DAUDio

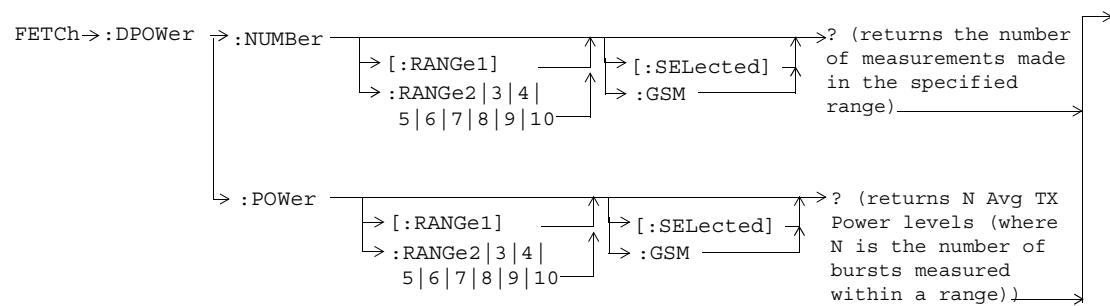


These commands are not applicable to GPRS.

FETCH:DPOWer

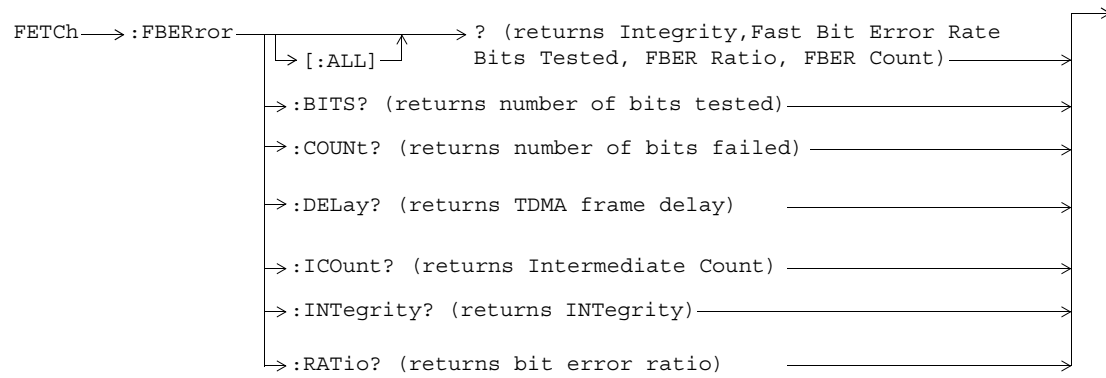


These commands are not applicable to GPRS.



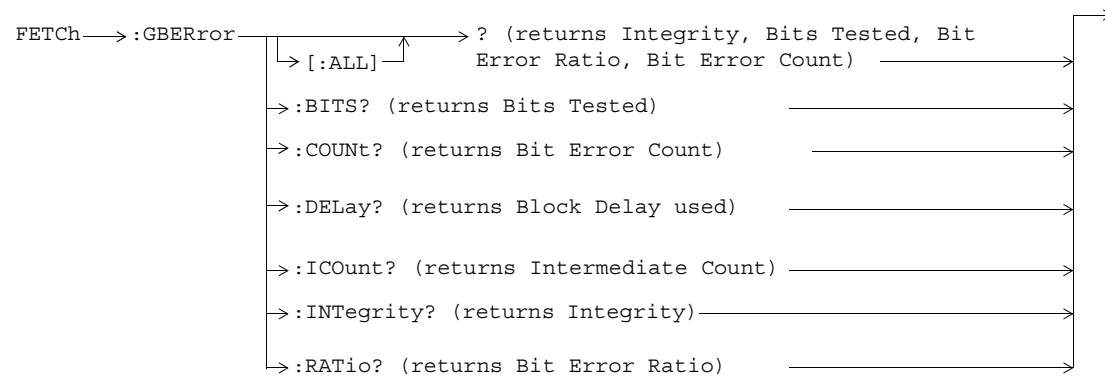
These commands are not applicable to GPRS.

FETCh:FBERror



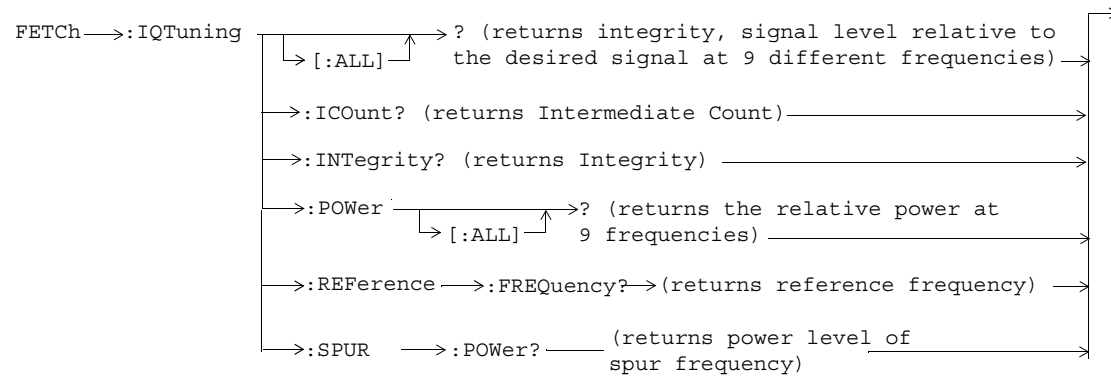
These commands are not applicable to GPRS.

FETCh:GBERror



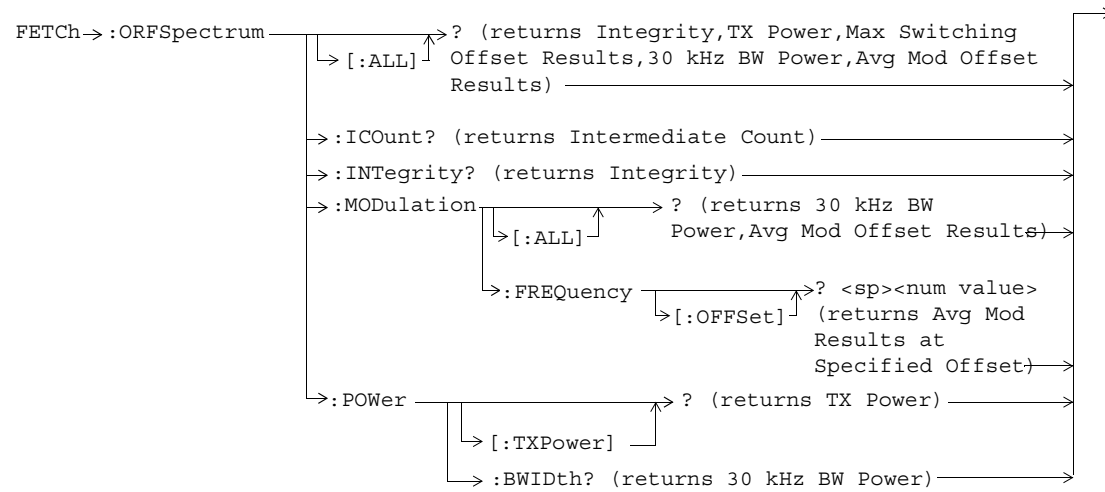
These commands are not applicable to GSM.

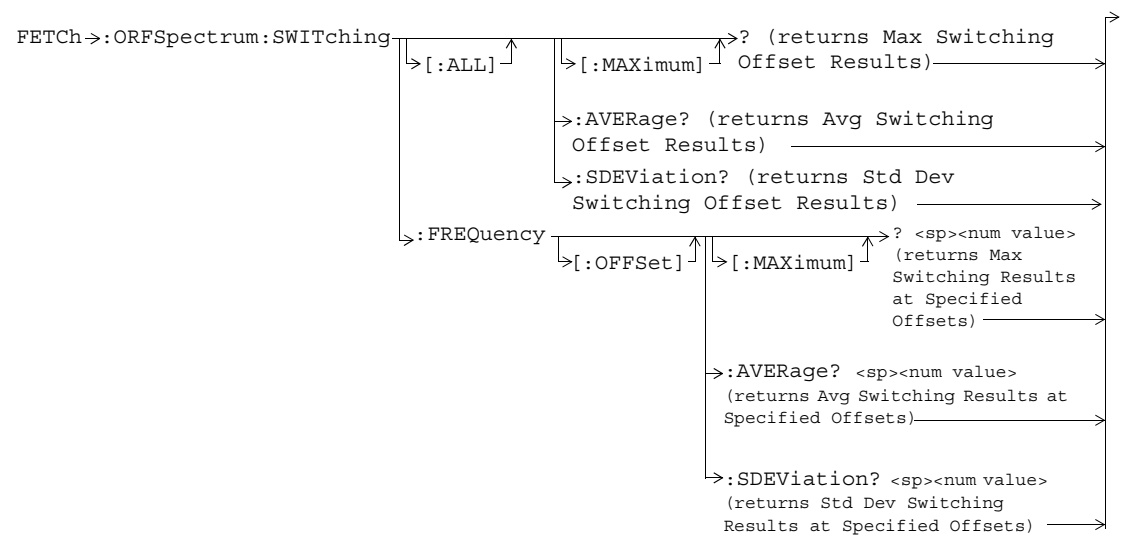
FETCH:IQTuning



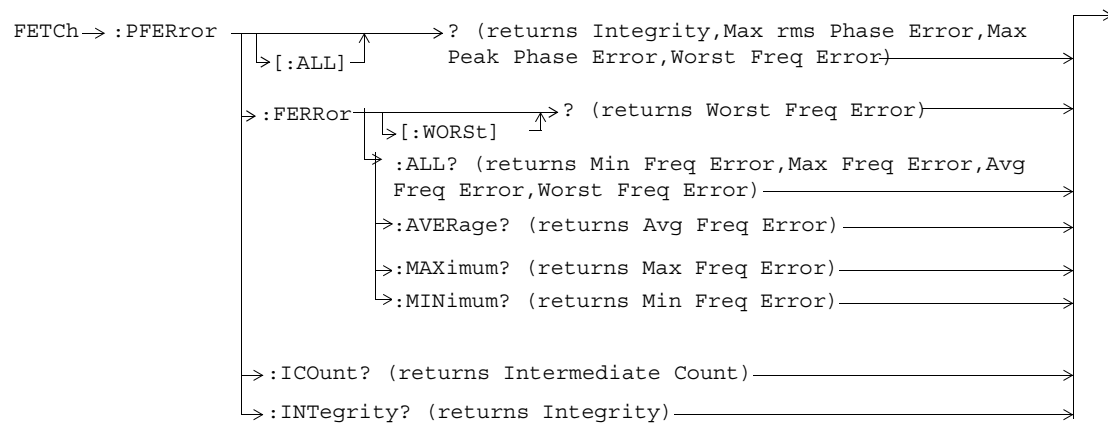
These commands are not applicable to GPRS.

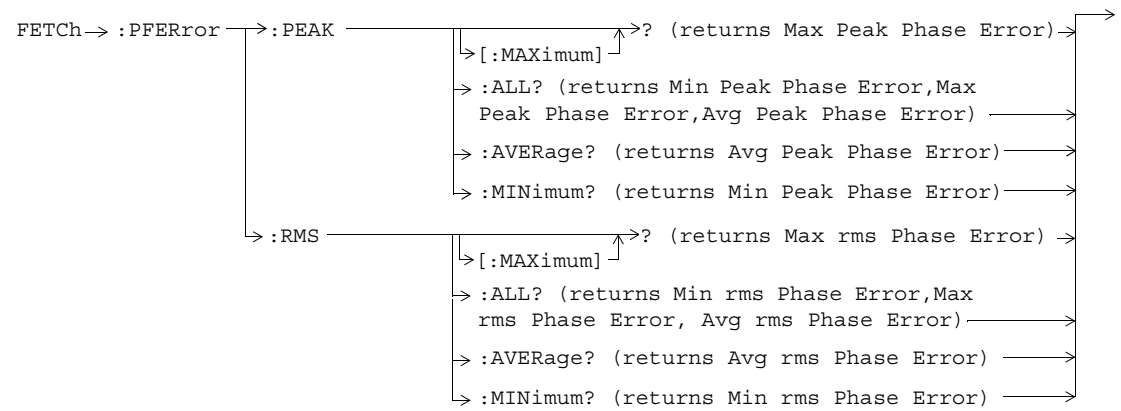
FETCH:ORFSpectrum



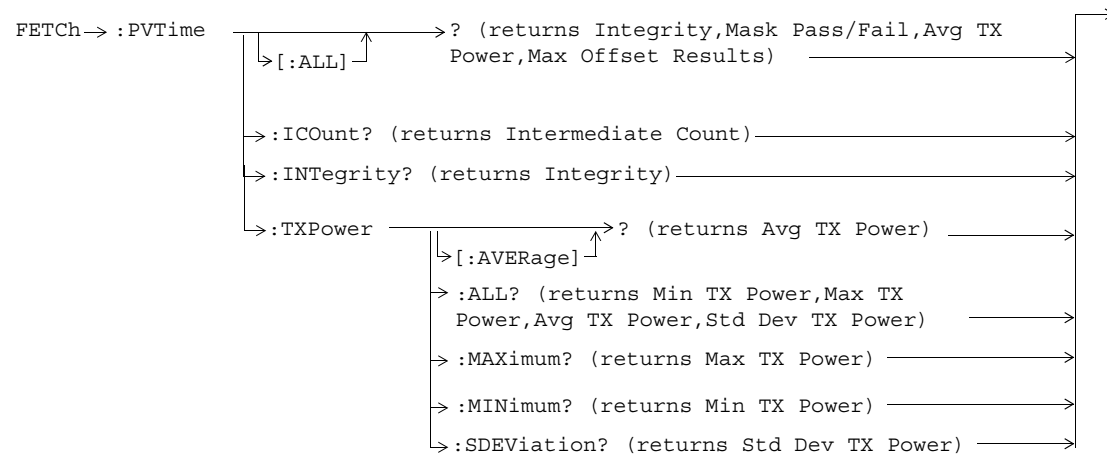


FETCH:PFERror

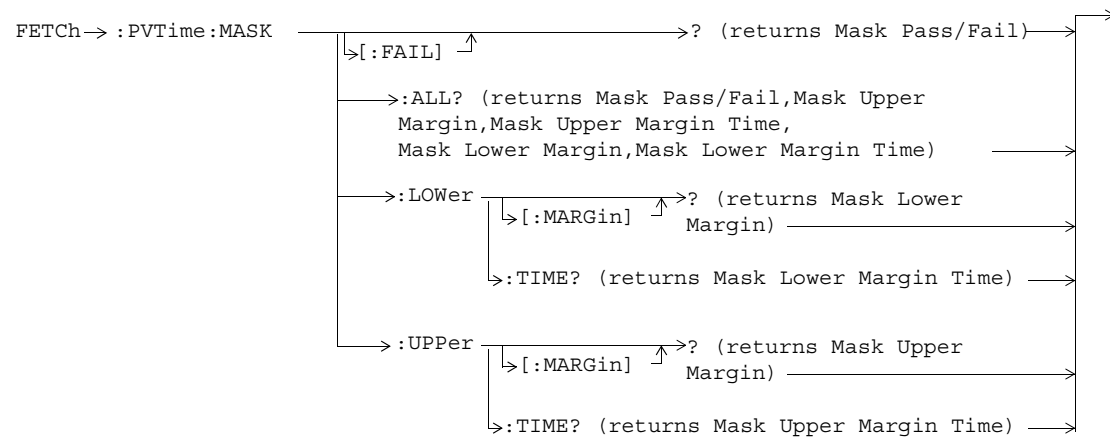




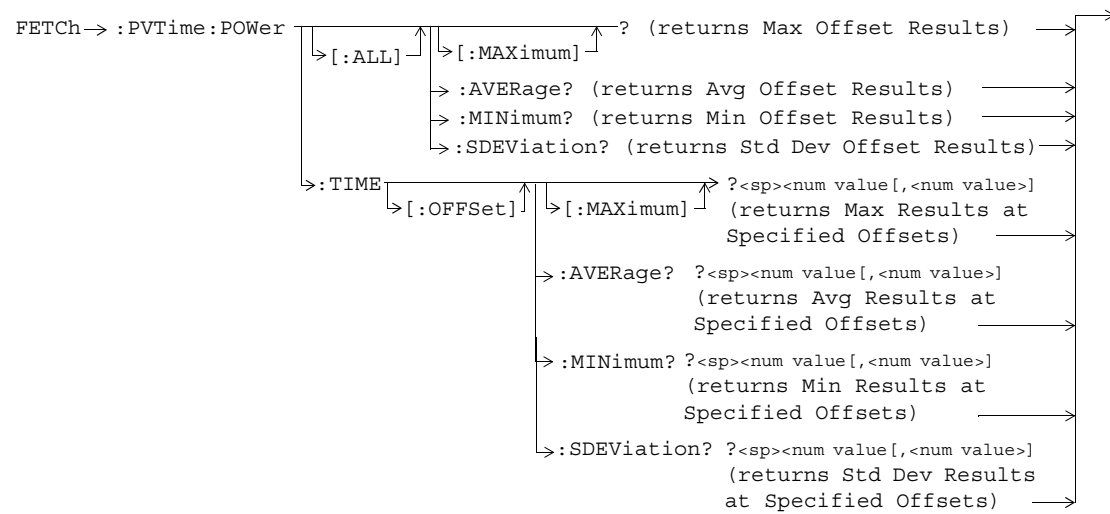
FETCH:PVTime



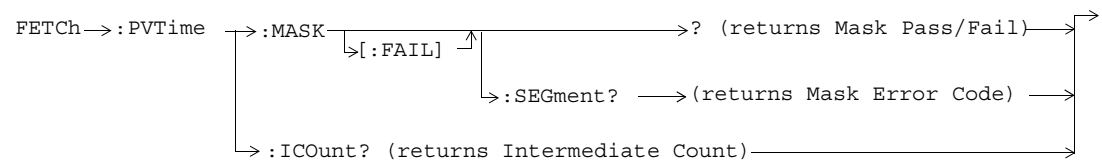
These commands are not applicable to GPRS.



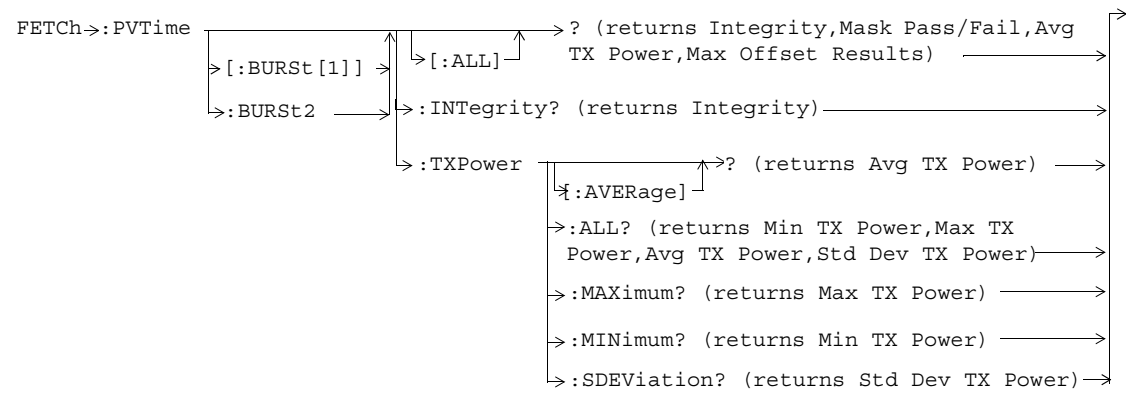
These commands are not applicable to GPRS.



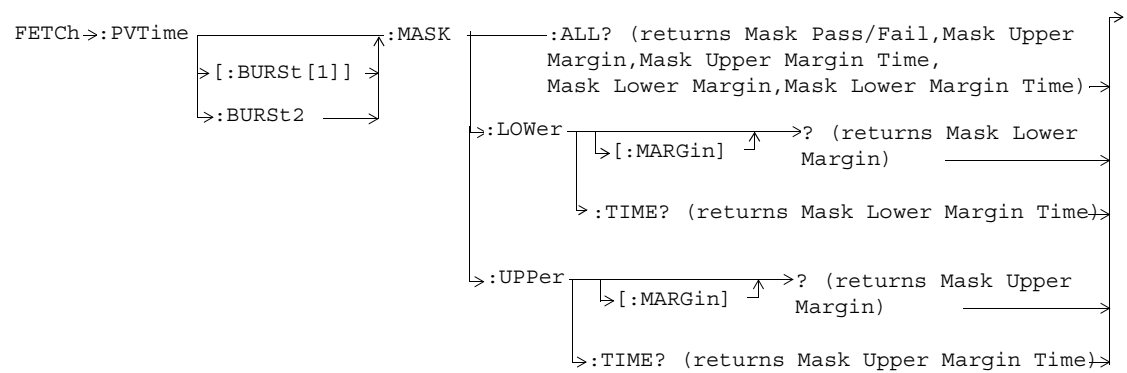
These commands are not applicable to GPRS.



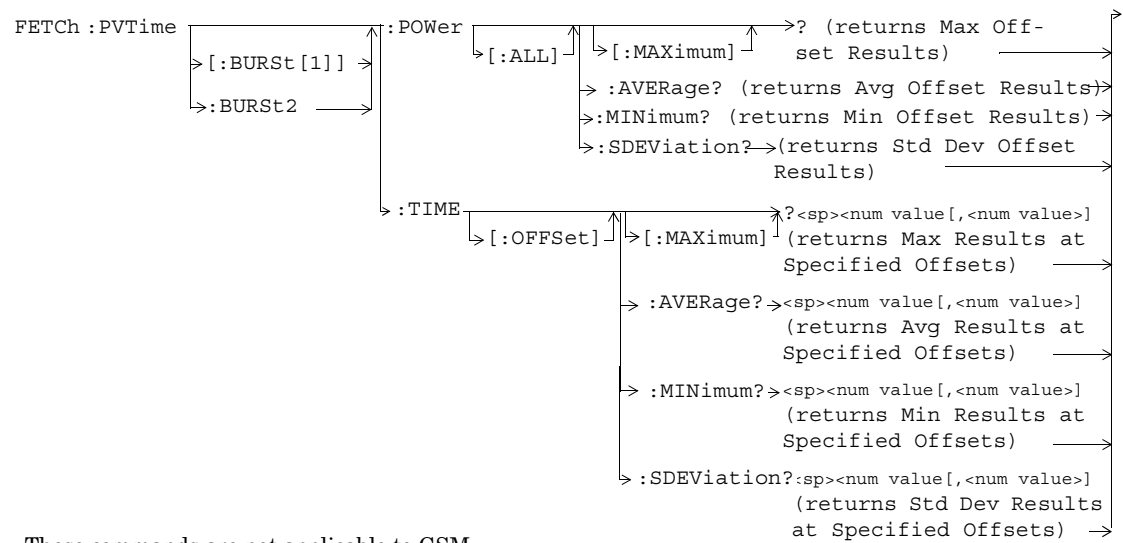
These commands are not applicable to GSM.



These commands are not applicable to GSM.

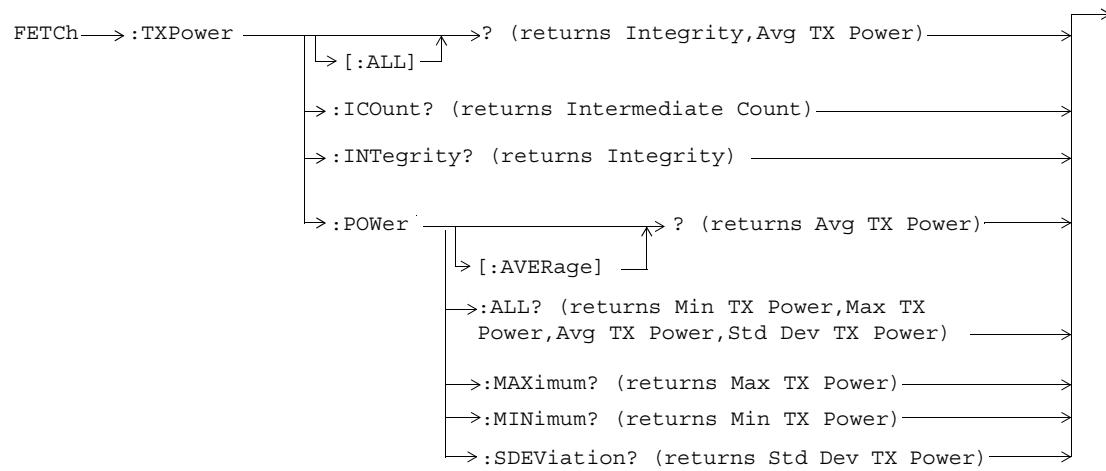


These commands are not applicable to GSM.

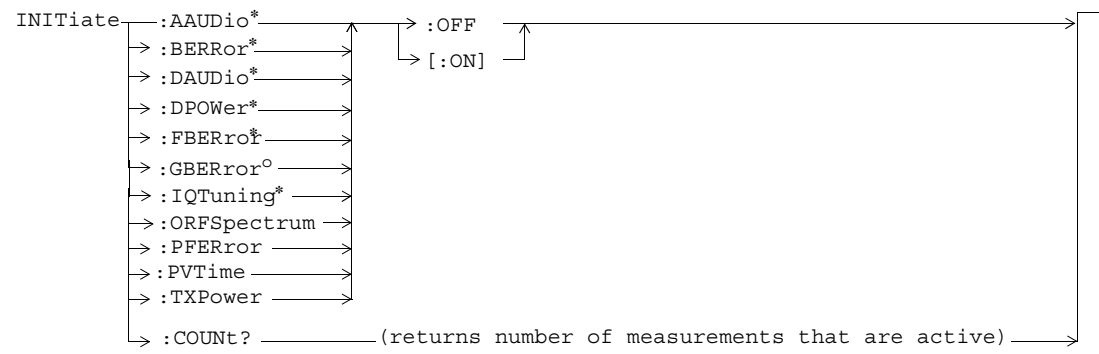


These commands are not applicable to GSM.

FETCH:TXPower

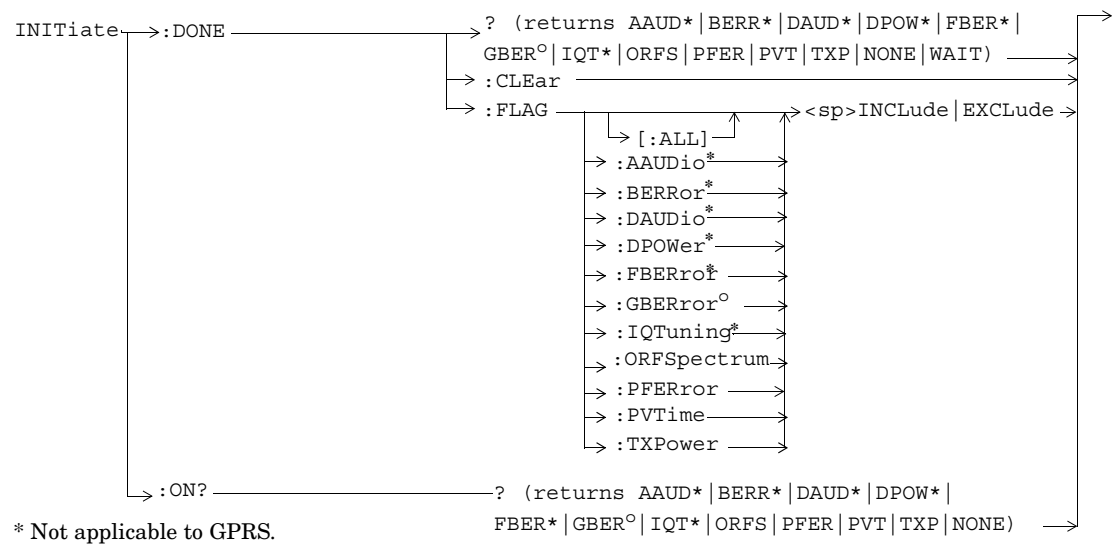


INITiate



* Not applicable to GPRS

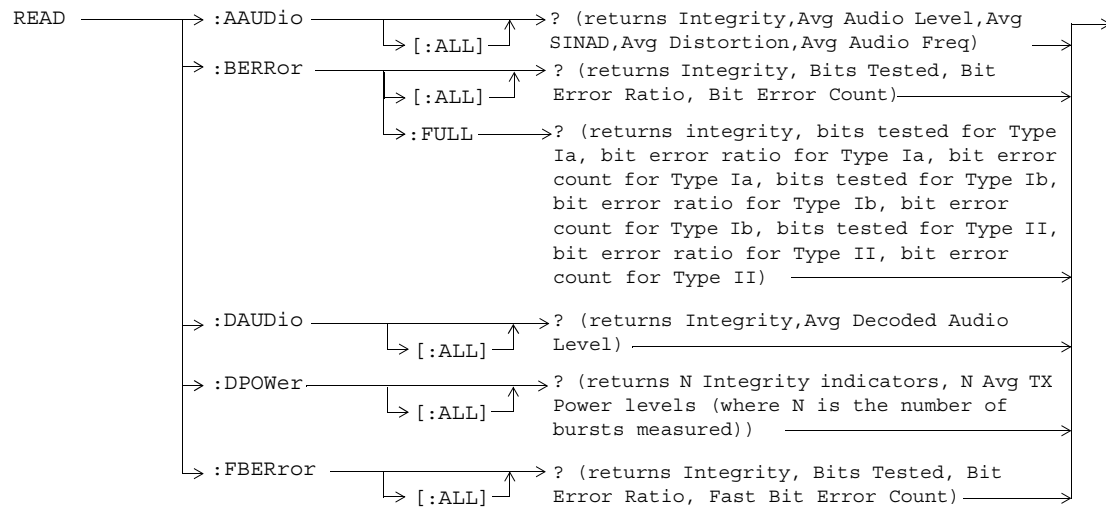
° Not applicable to GSM



* Not applicable to GPRS.

° Not applicable to GSM

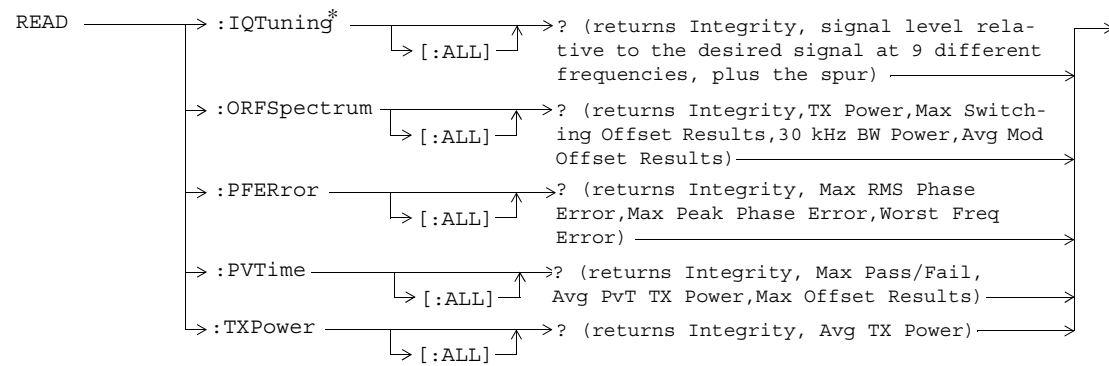
READ



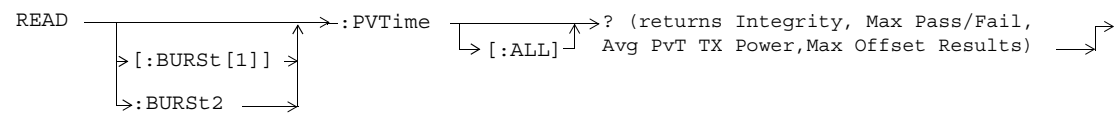
These commands are not applicable to GPRS.

READ → :GBError → ? (returns Integrity, Bits Tested, Bit Error Ratio, Bit Error Count) →
↳ [:ALL] ↵

* This command is not applicable to GSM.

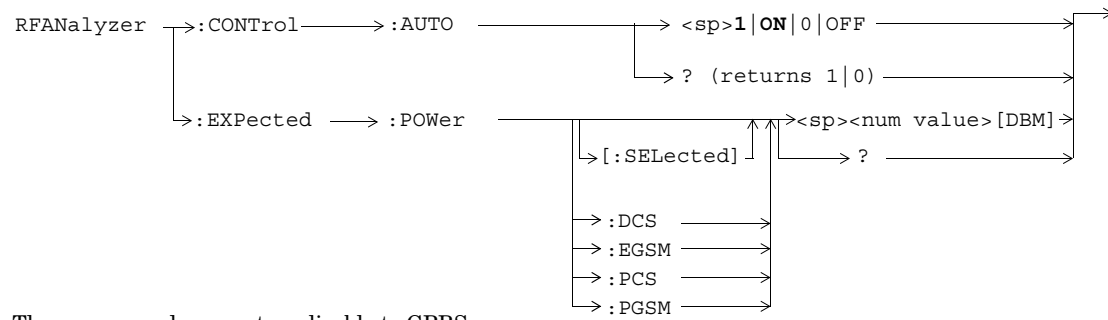


* Not applicable to GPRS.

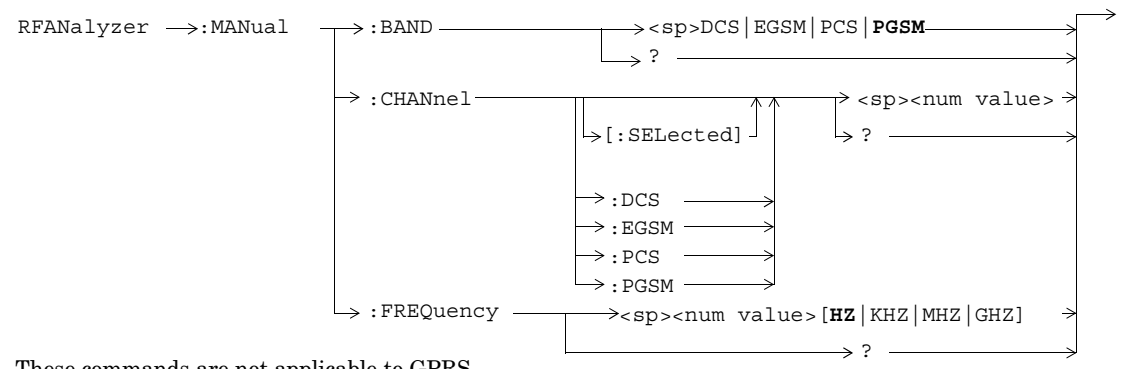


This command is not applicable to GSM.

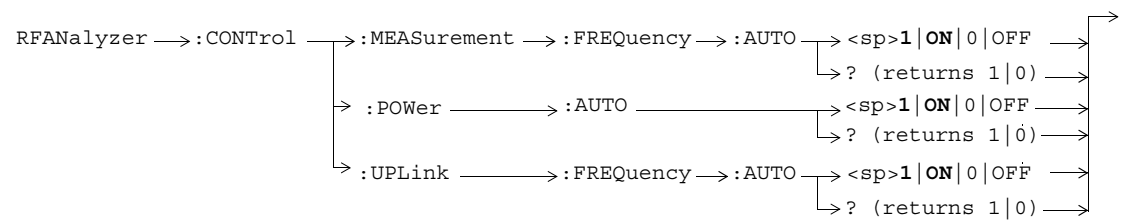
RFAnalyzer



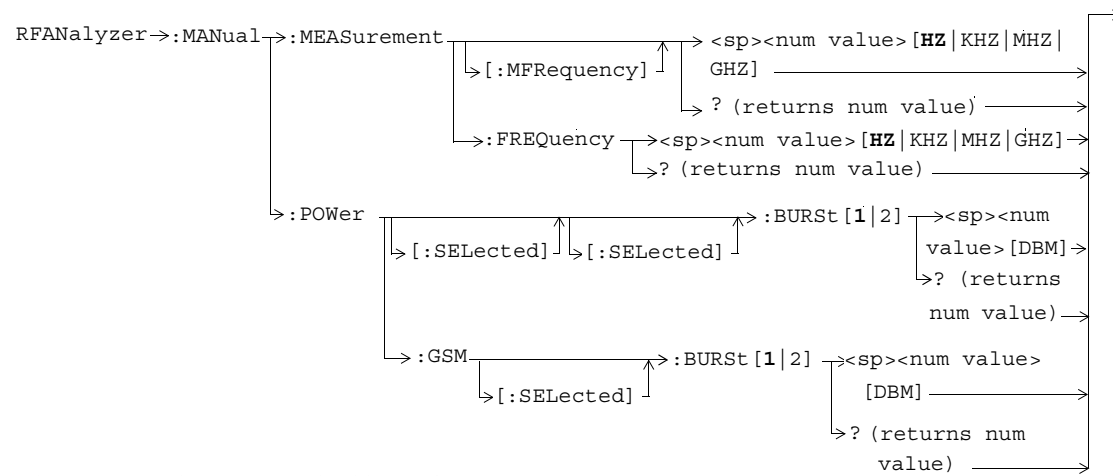
These commands are not applicable to GPRS.



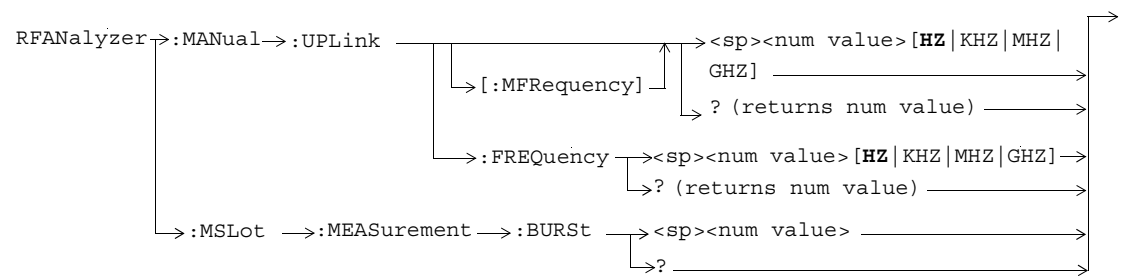
These commands are not applicable to GPRS.



These commands are not applicable to GSM.

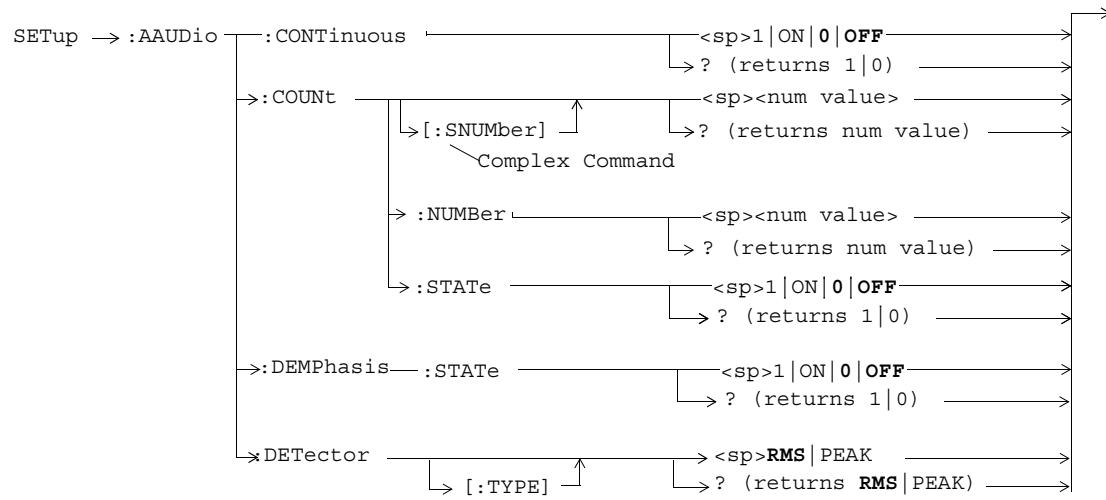


These commands are not applicable to GSM.

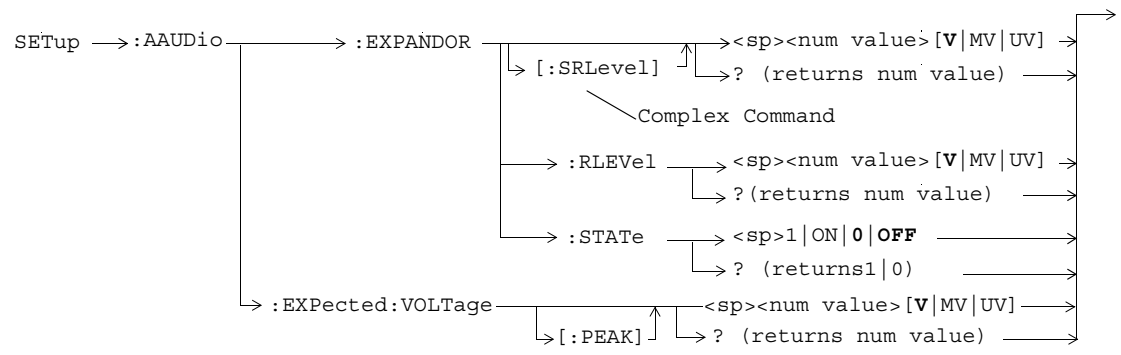


These commands are not applicable to GSM.

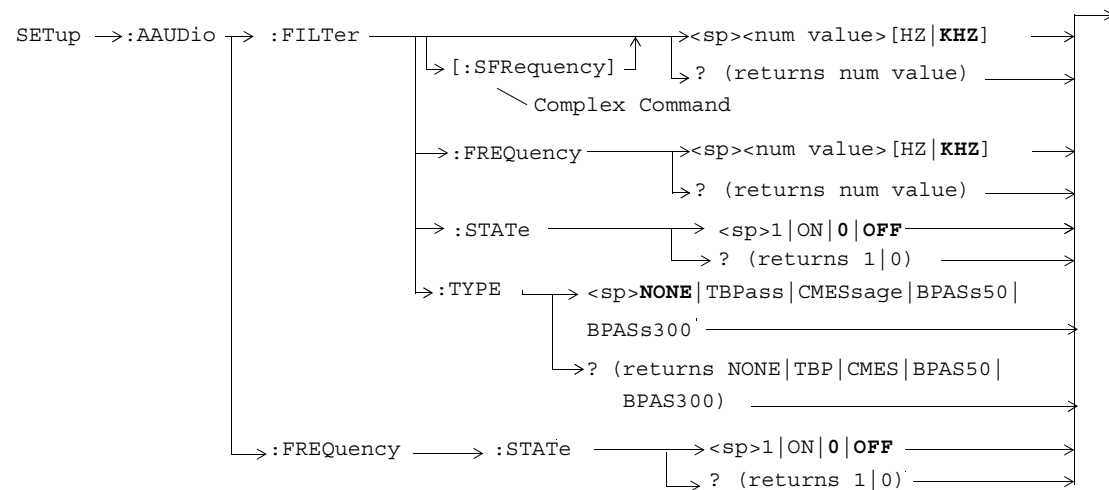
SETup:AAudio



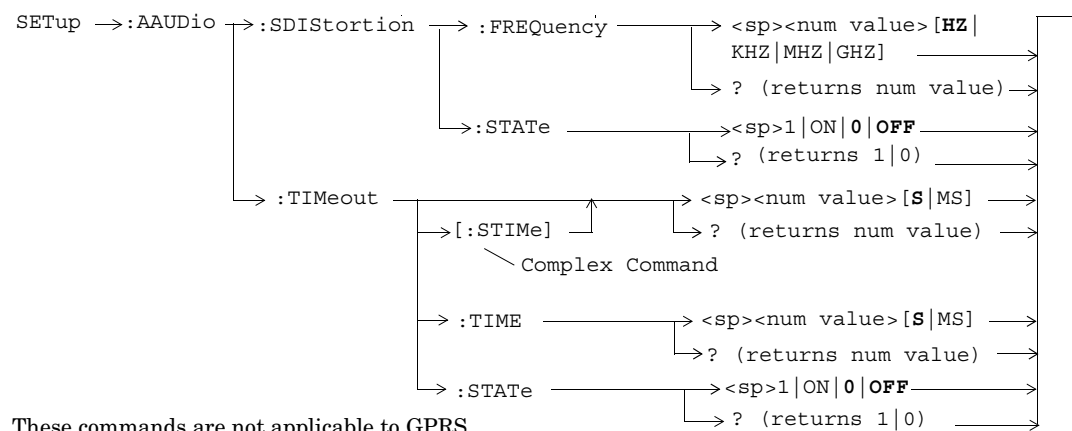
These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

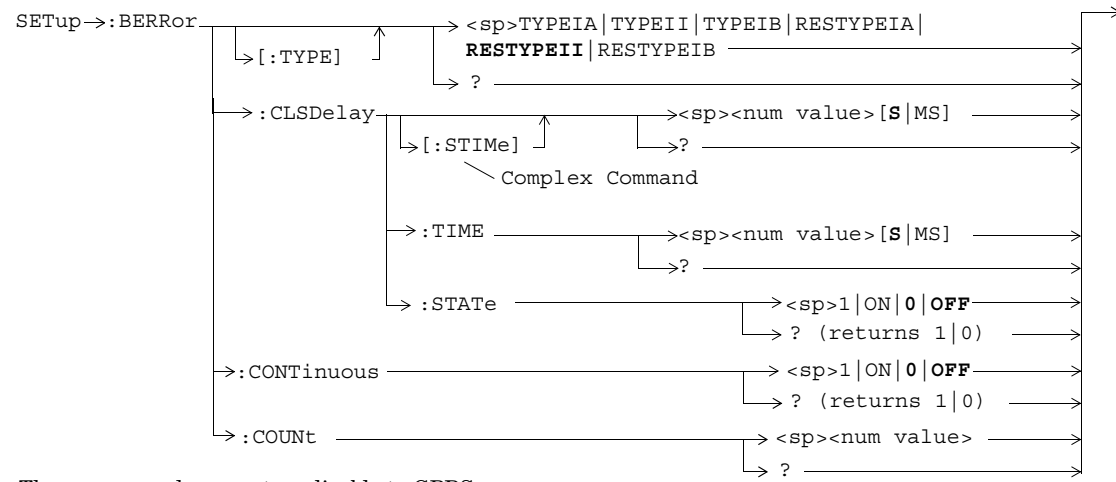


These commands are not applicable to GPRS.

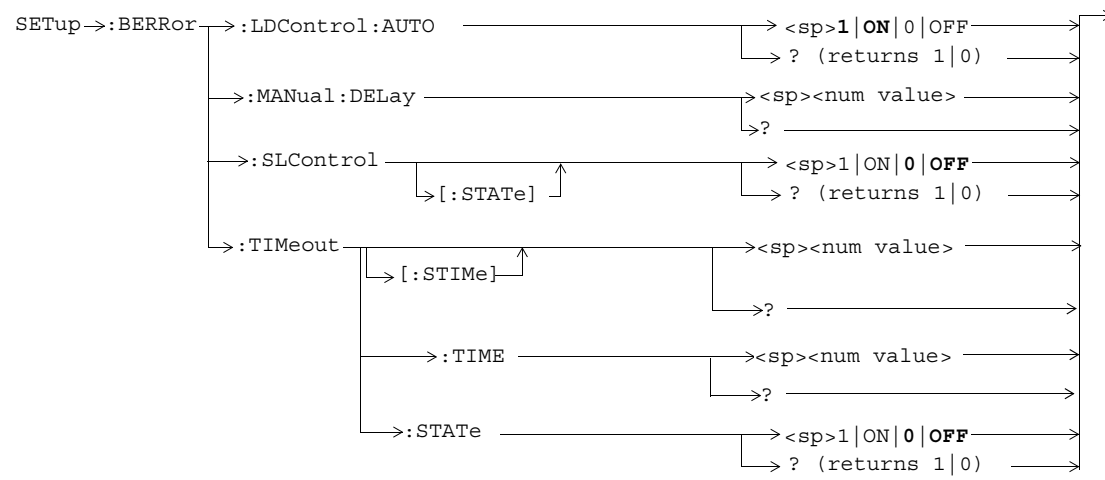


These commands are not applicable to GPRS.

SETup:BERRor

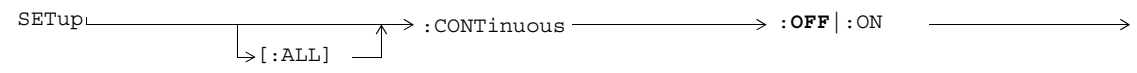


These commands are not applicable to GPRS.

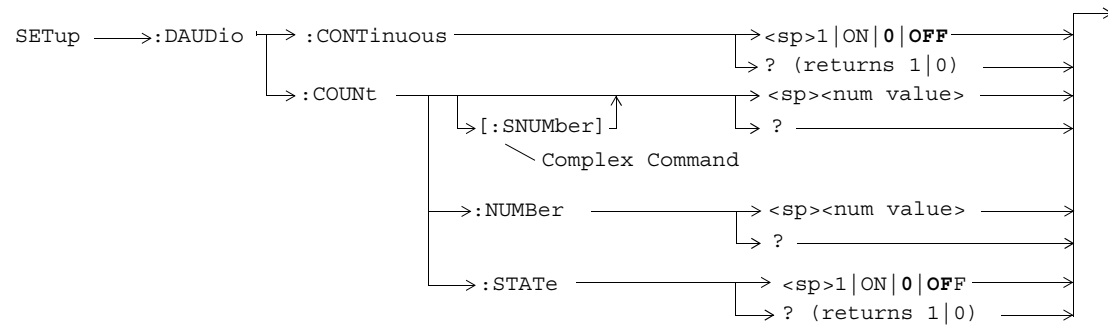


These commands are not applicable to GPRS.

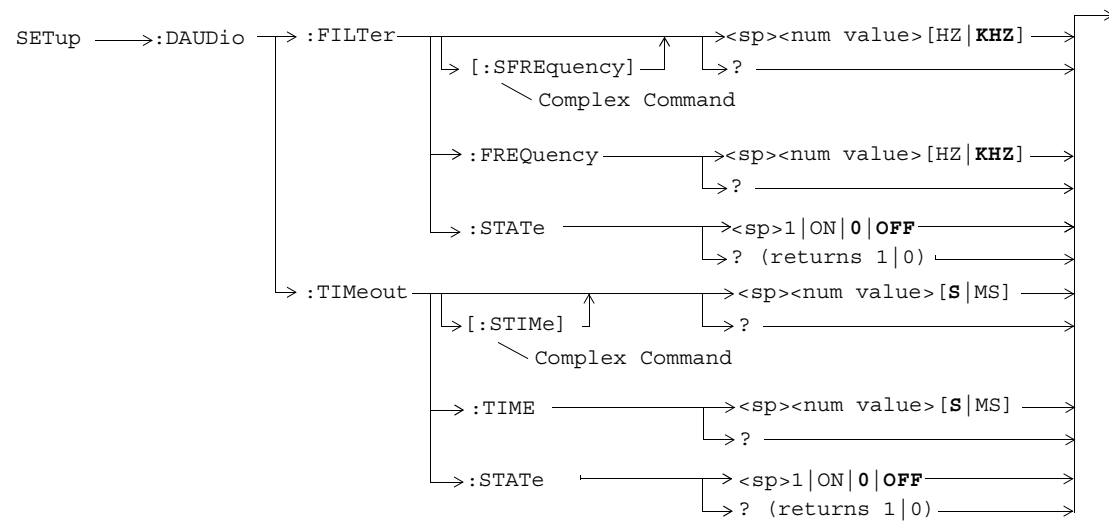
SETup:CONTInuous



SETup:DAUDio

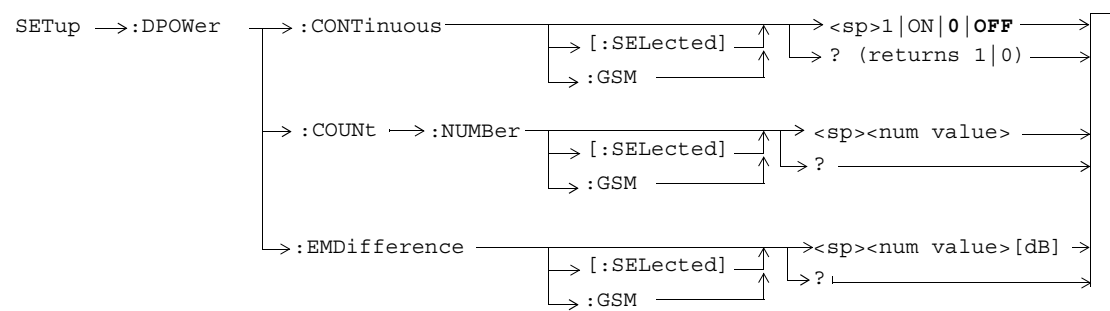


These commands are not applicable to GPRS.

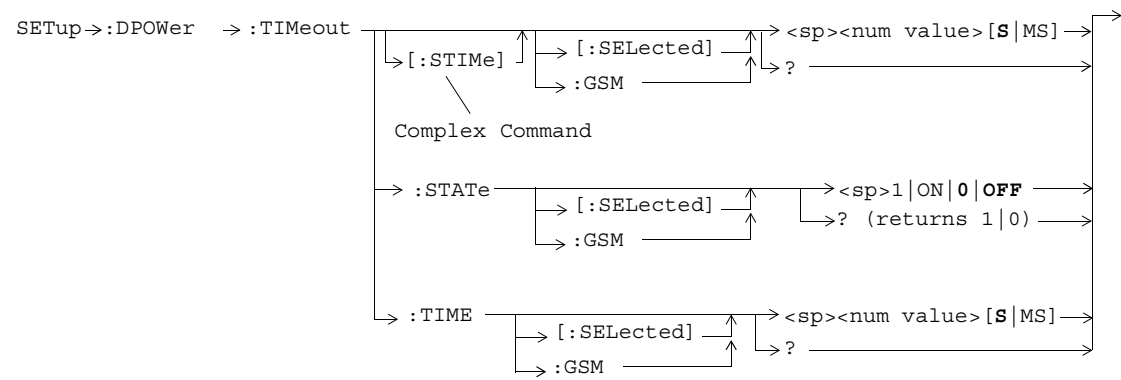


These commands are not applicable to GPRS.

SETup:DPOWER

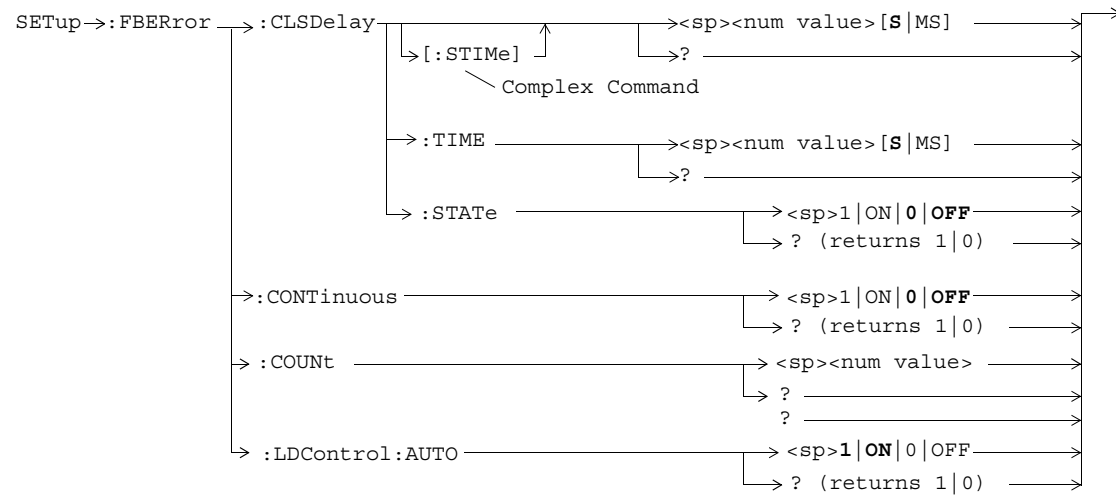


These commands are not applicable to GPRS.

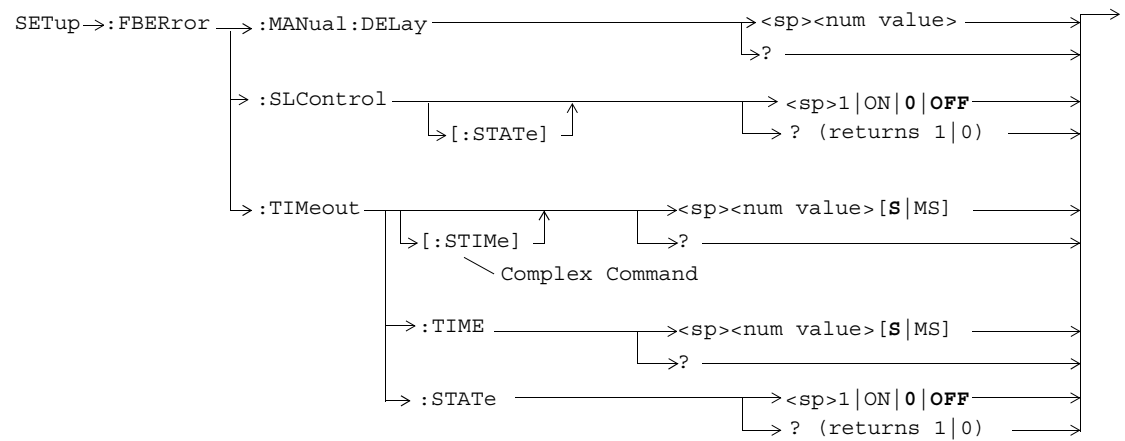


These commands are not applicable to GPRS.

SETup:FBERror

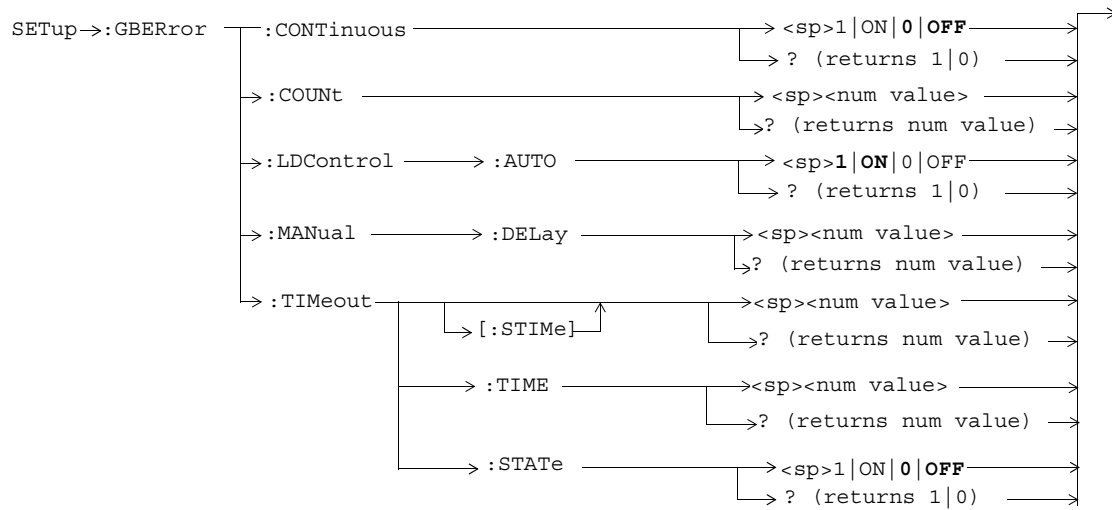


These commands are not applicable to GPRS.



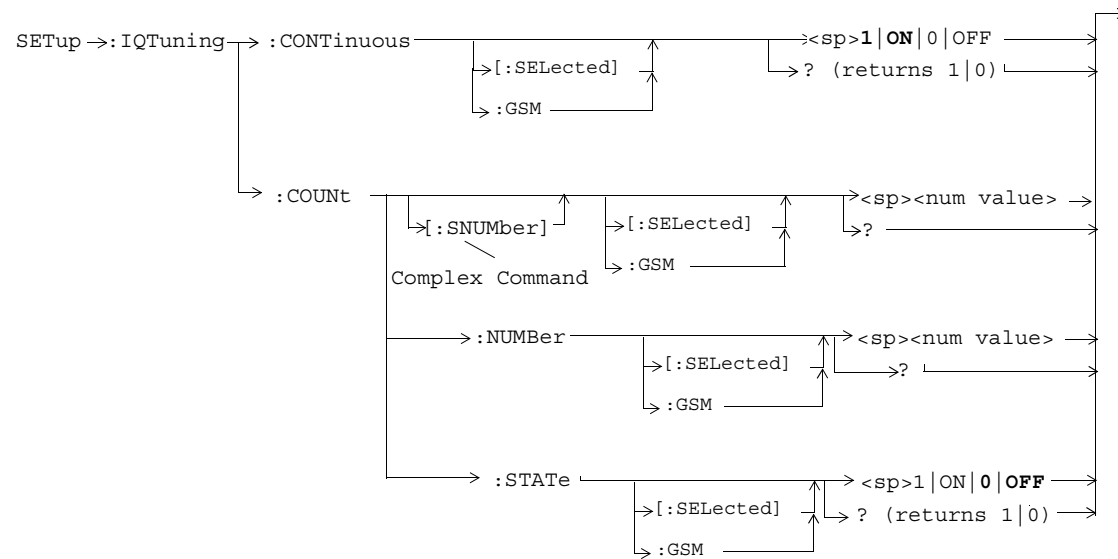
These commands are not applicable to GPRS.

SETup:GBERror

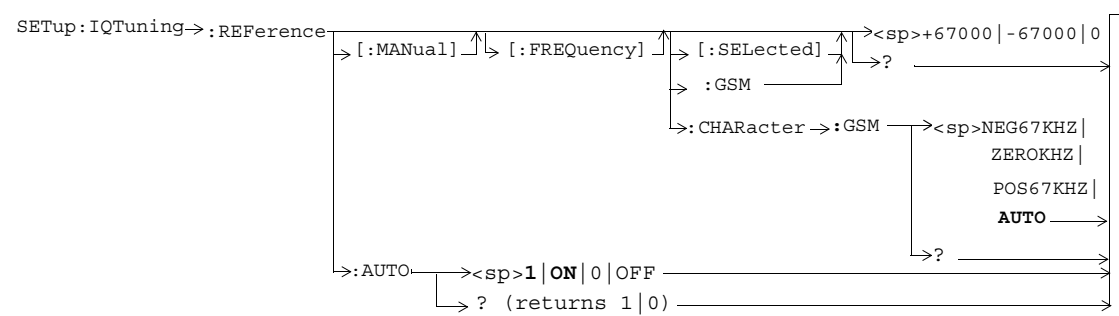


These commands are not applicable to GSM.

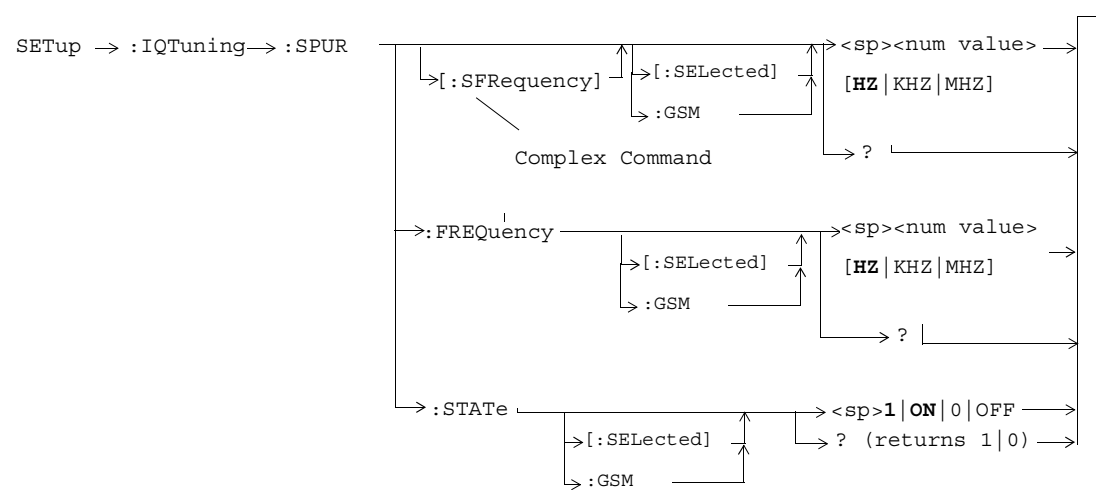
SETup:IQTuning



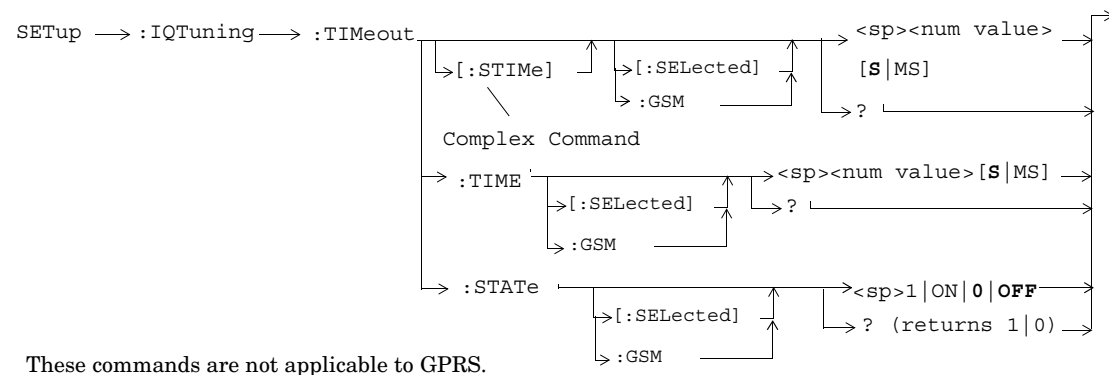
These commands are not applicable to GPRS.

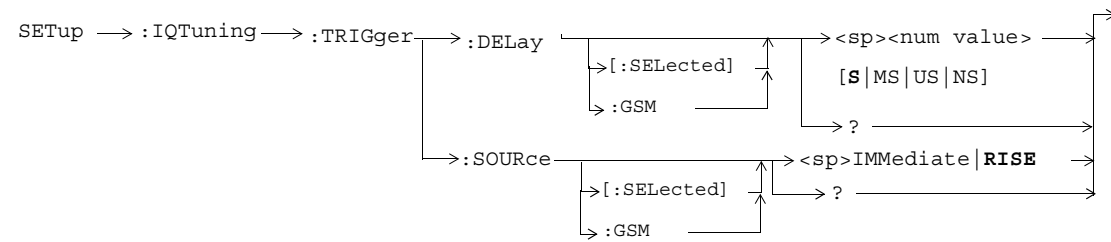


These commands are not applicable to GPRS.



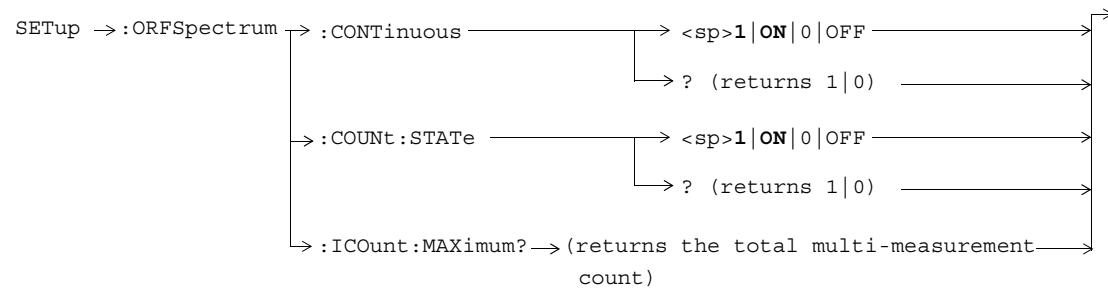
These commands are not applicable to GPRS.

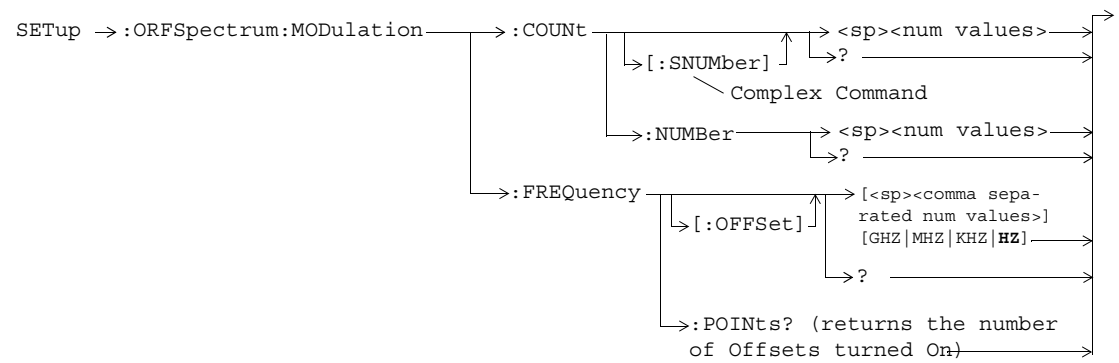


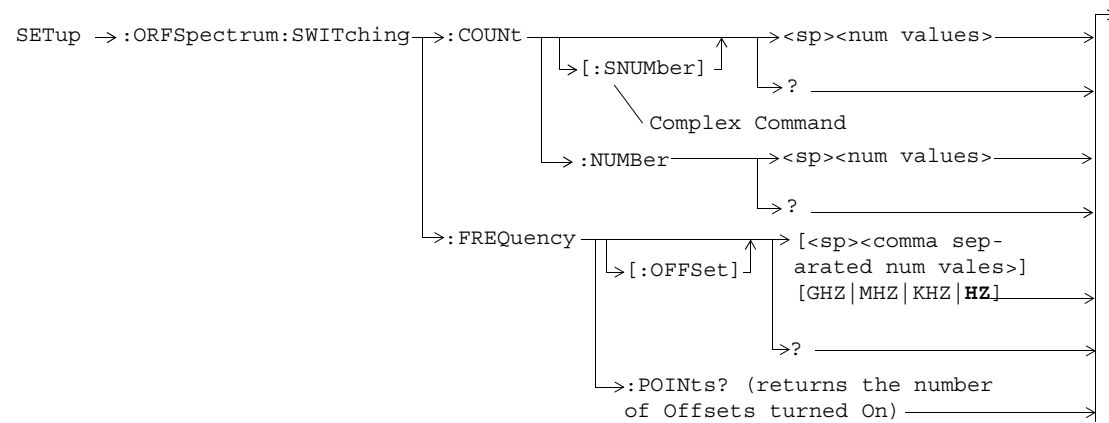


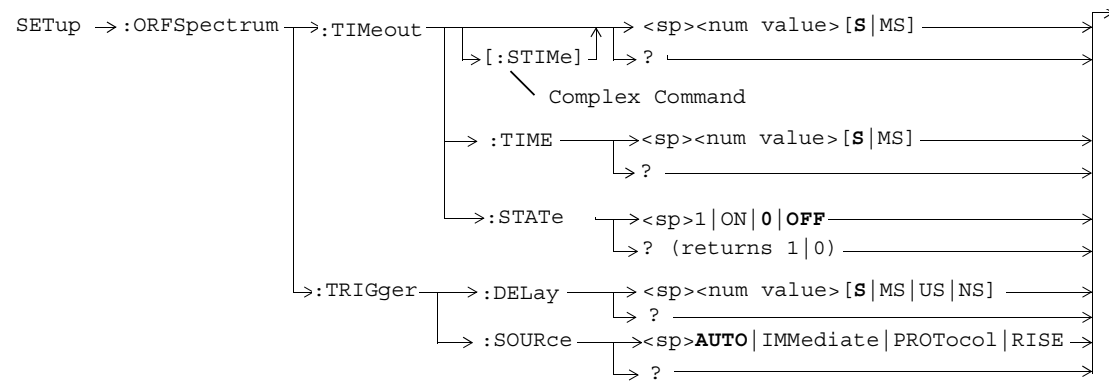
These commands are not applicable to GPRS.

SETup:ORFSpectrum

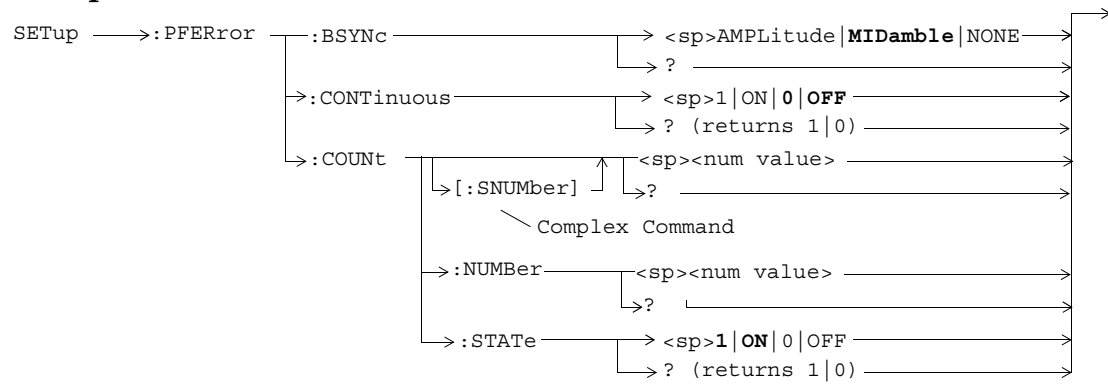


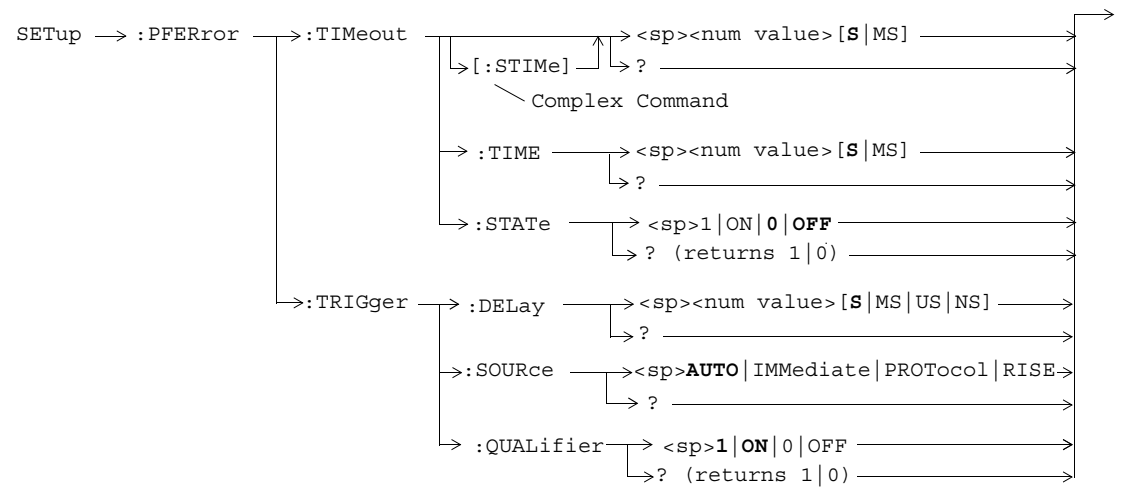




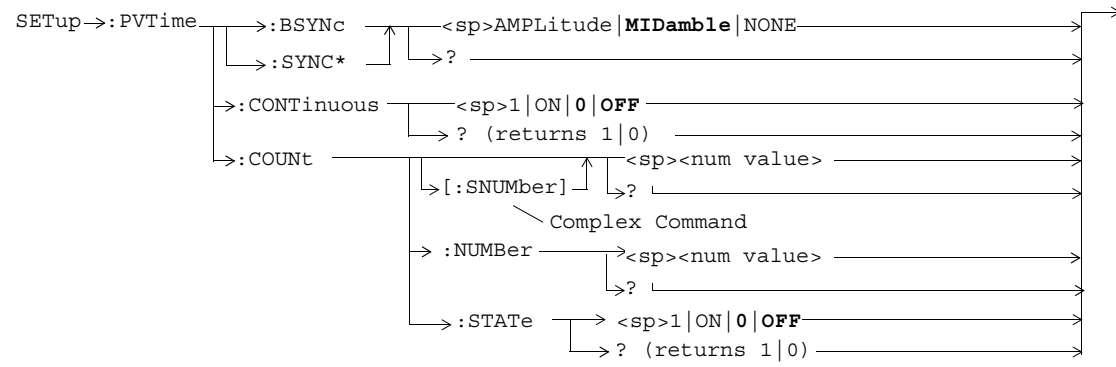


SETup:PFERror

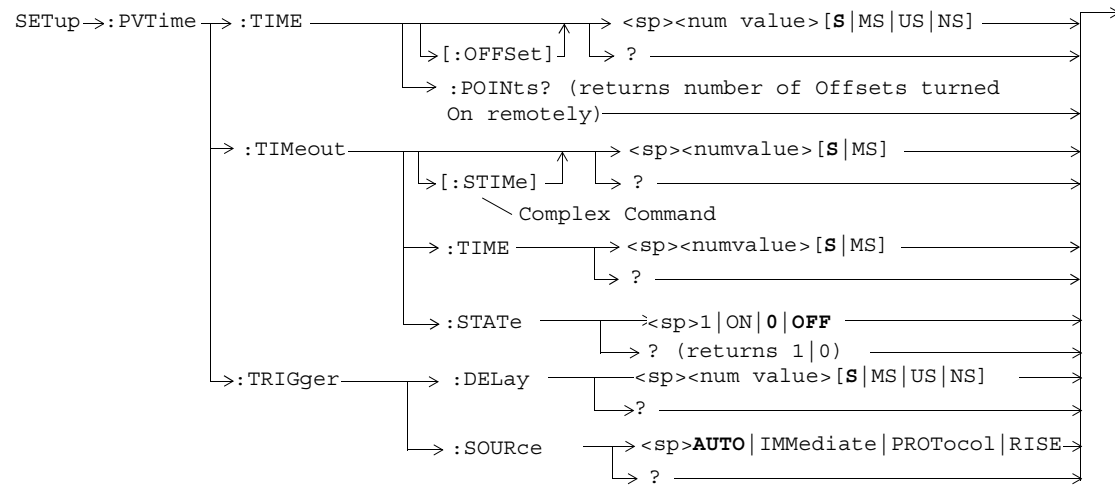


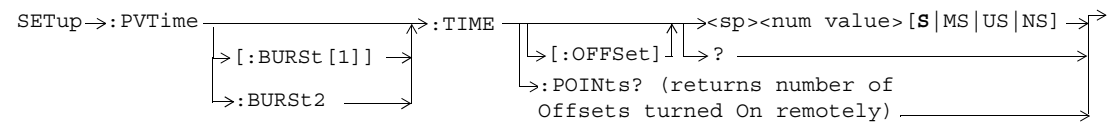


SETup:PVTime



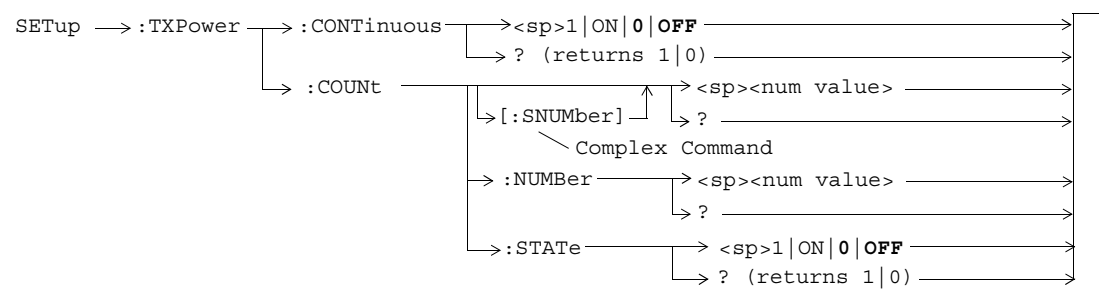
* Not applicable to GSM

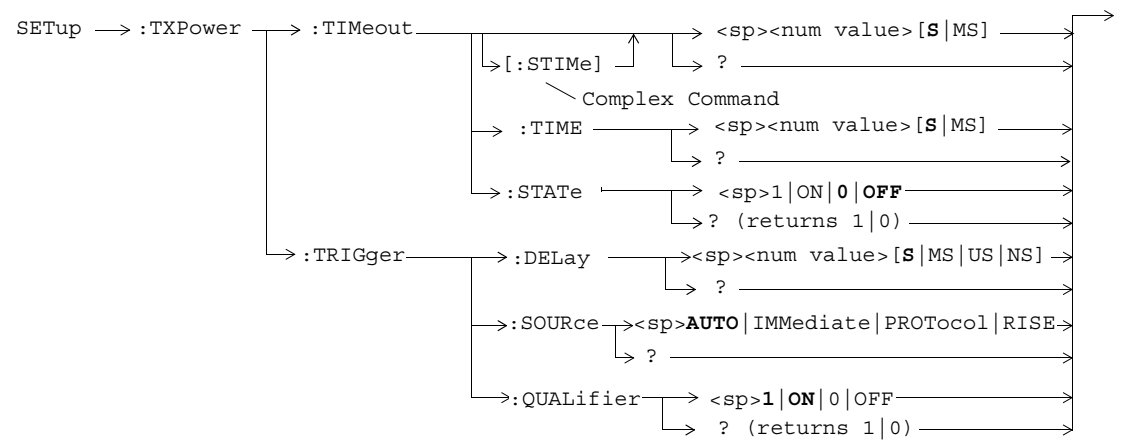




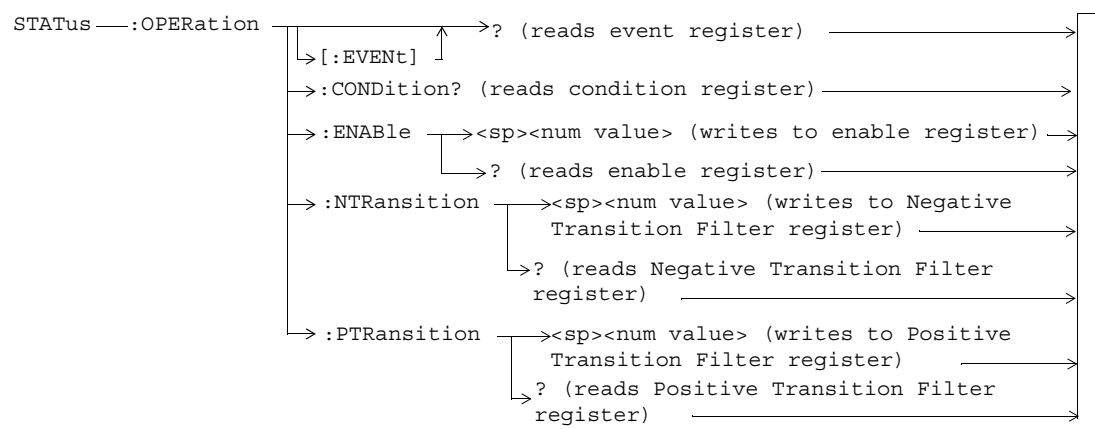
These commands are not applicable to GSM.

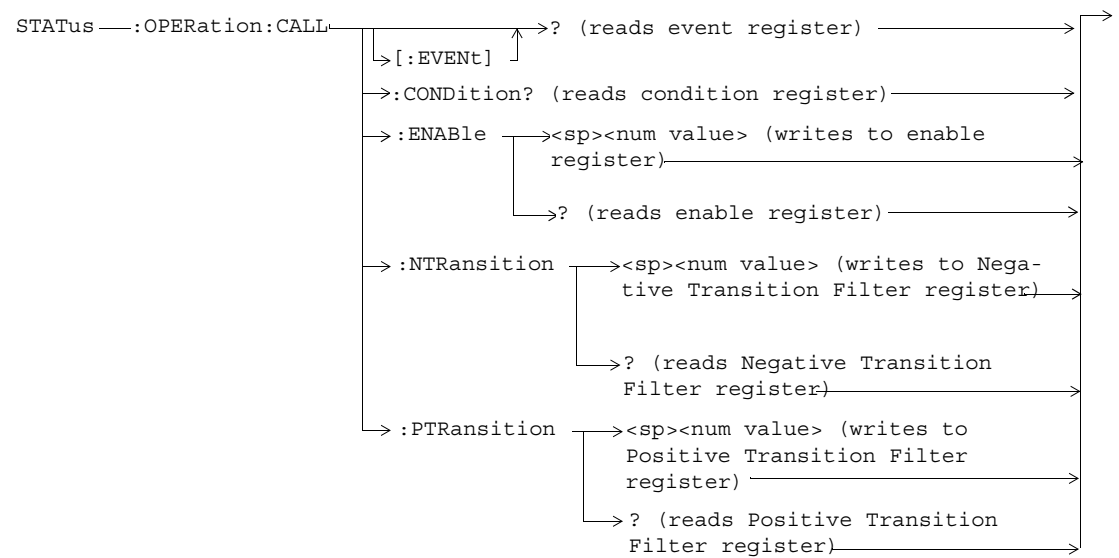
SETup:TXPower

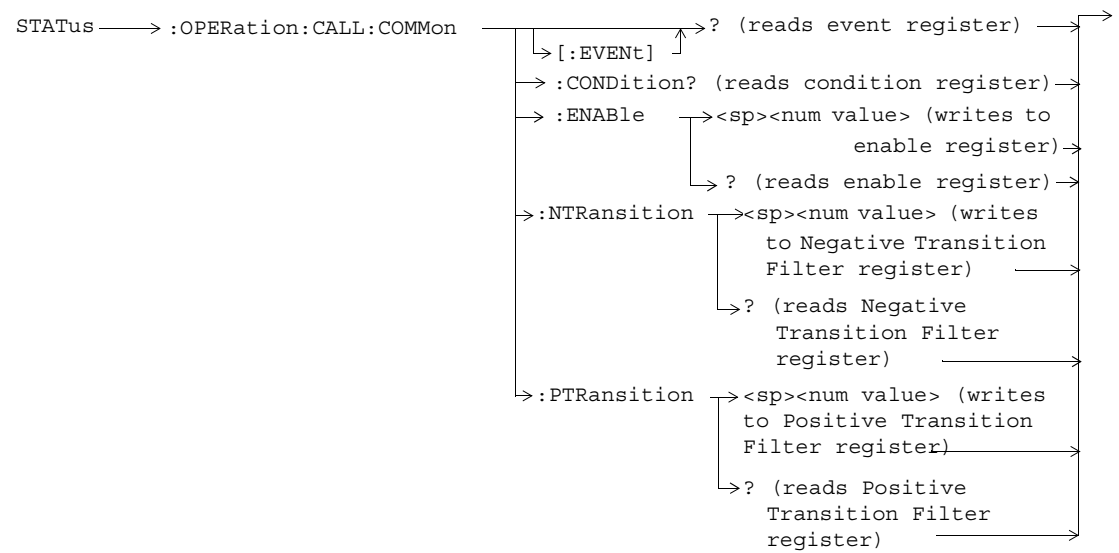


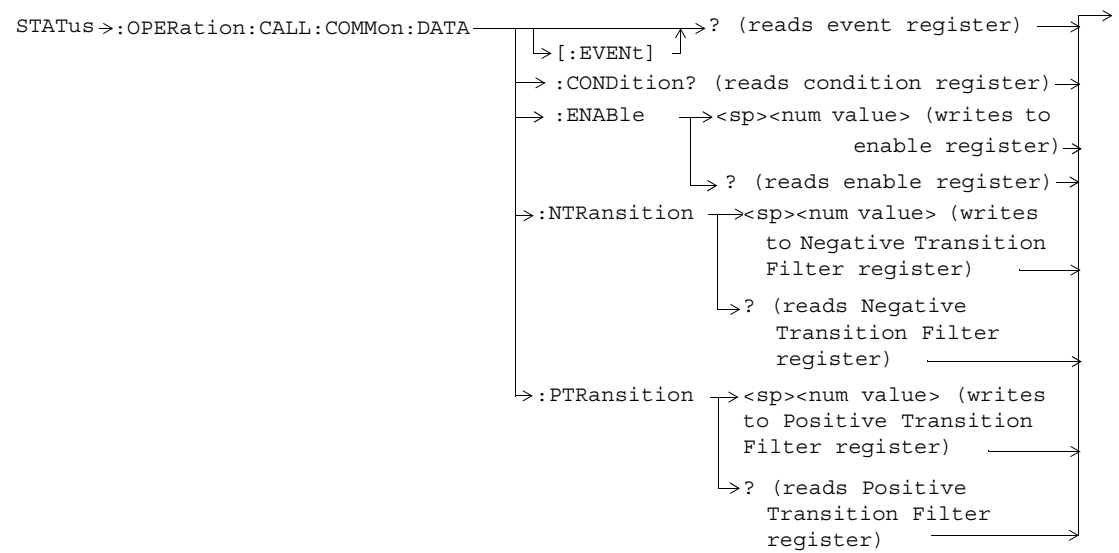


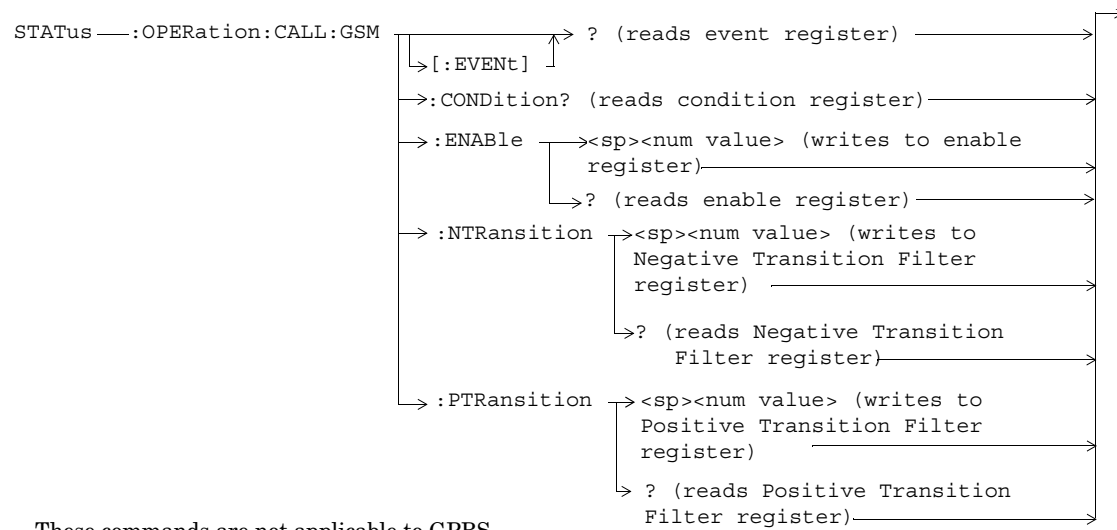
STATUS:OPERation





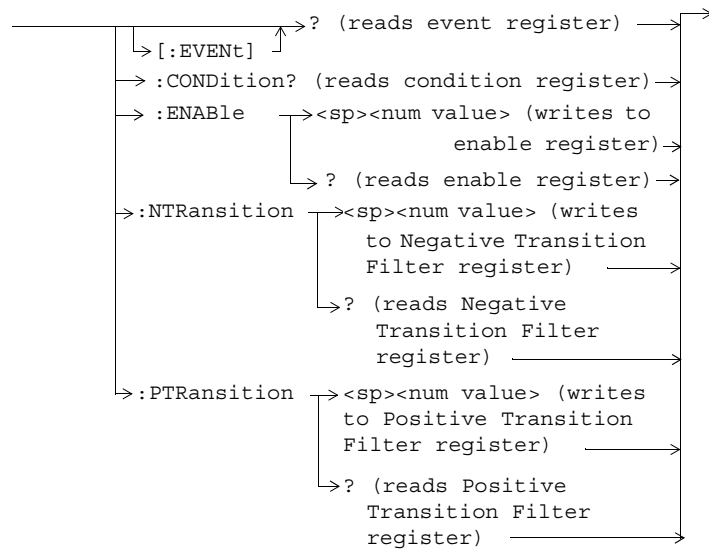


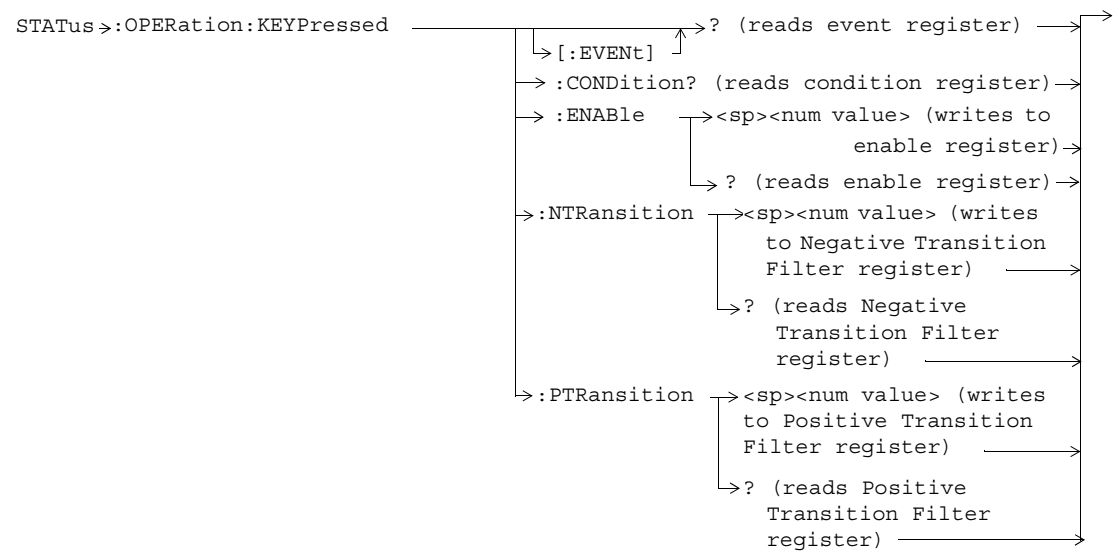


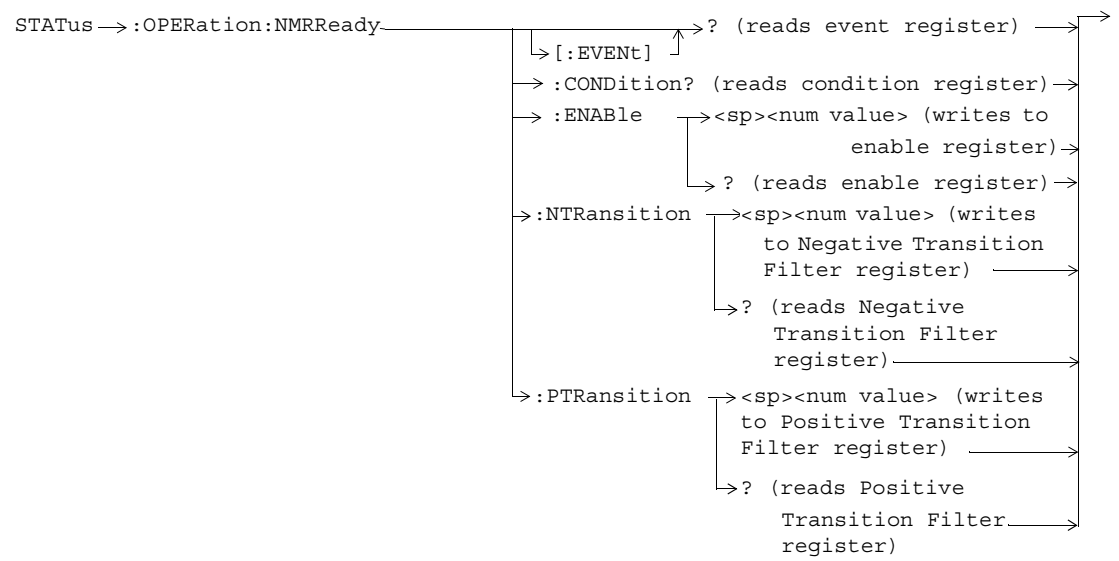


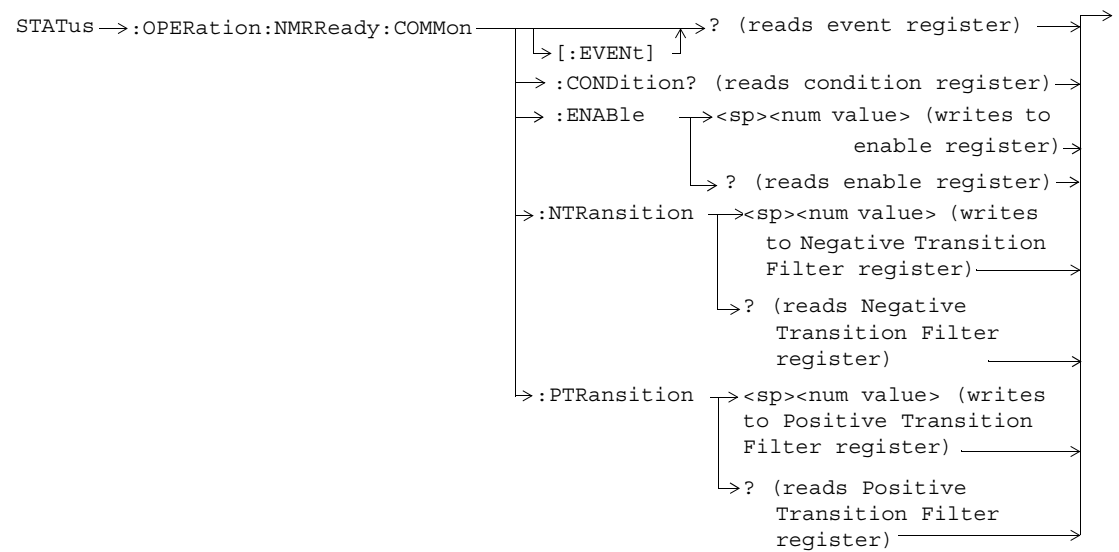
These commands are not applicable to GPRS.

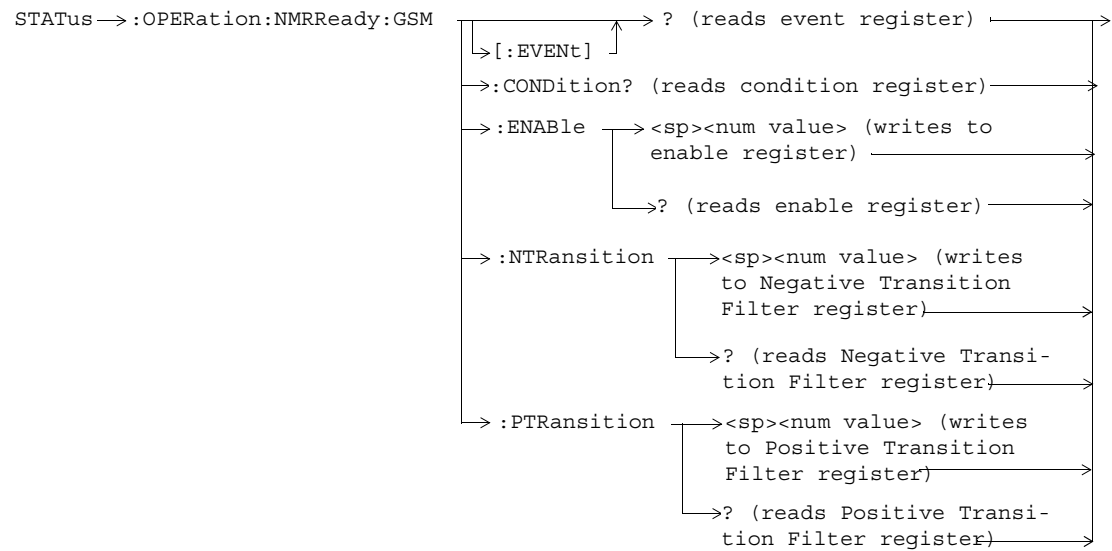
STATUS>:OPERation:HARDware





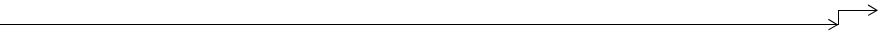




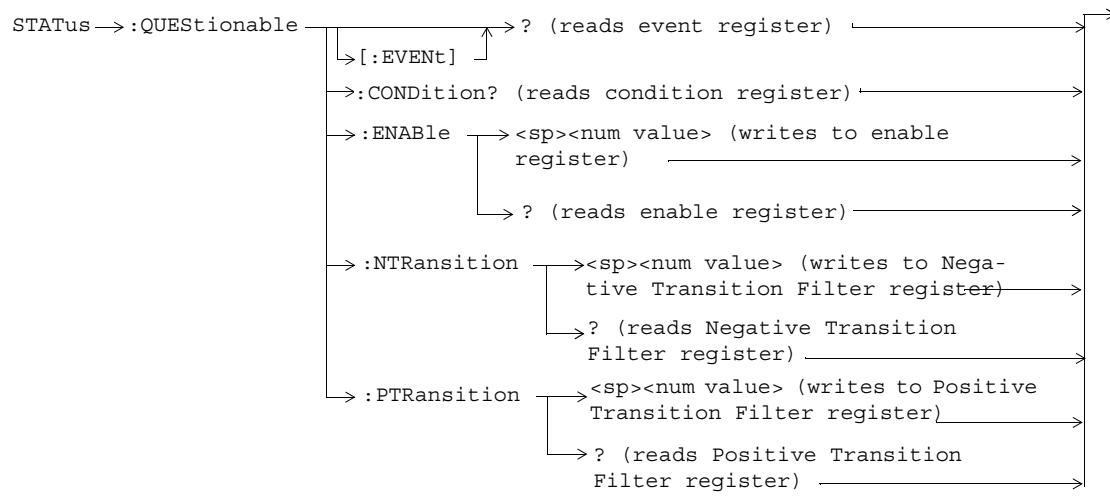


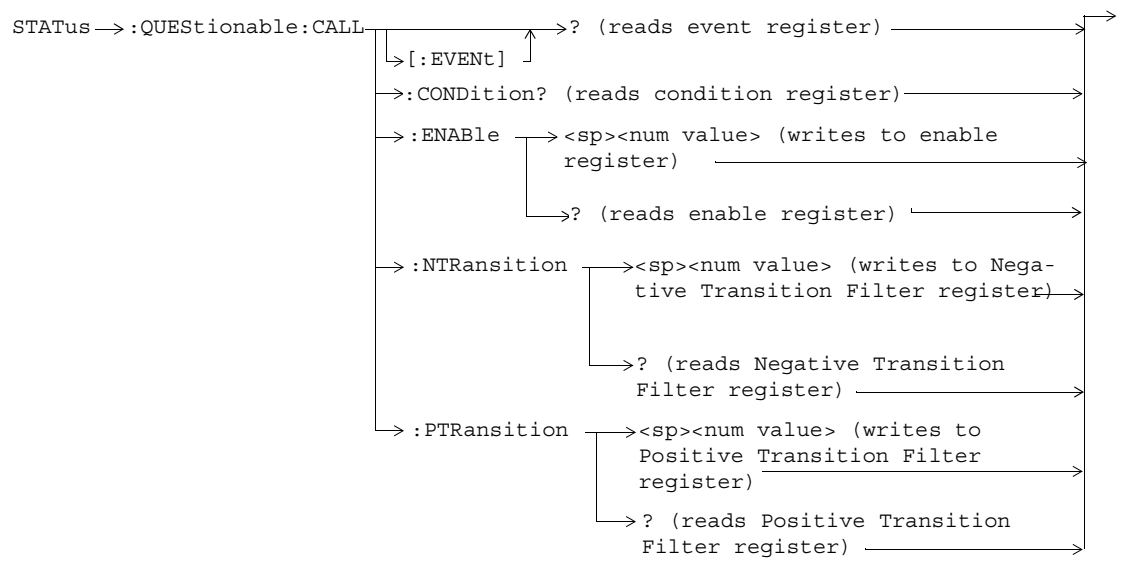
STATus:PRESet

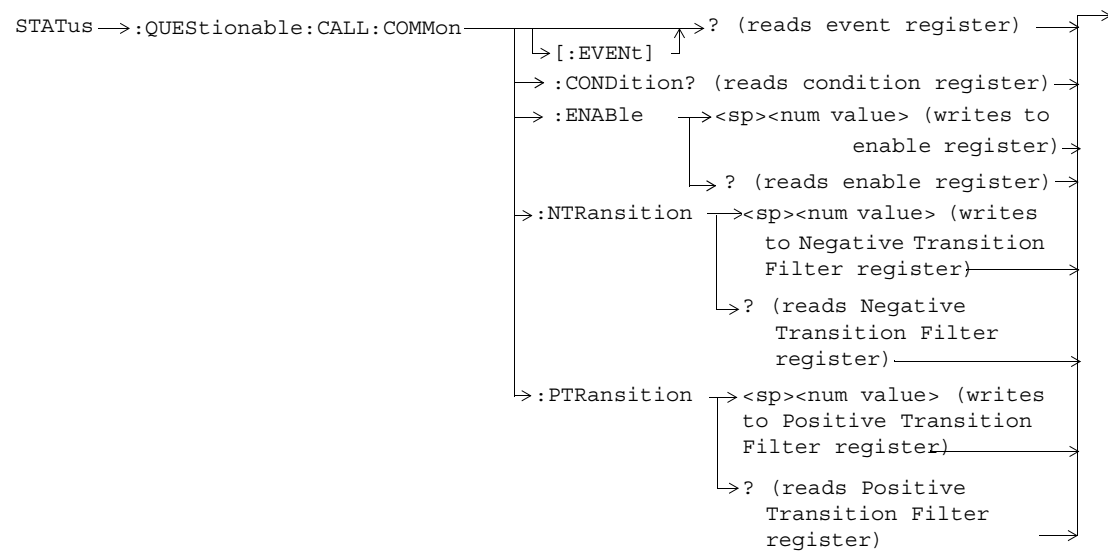
STATus → :PRESet →

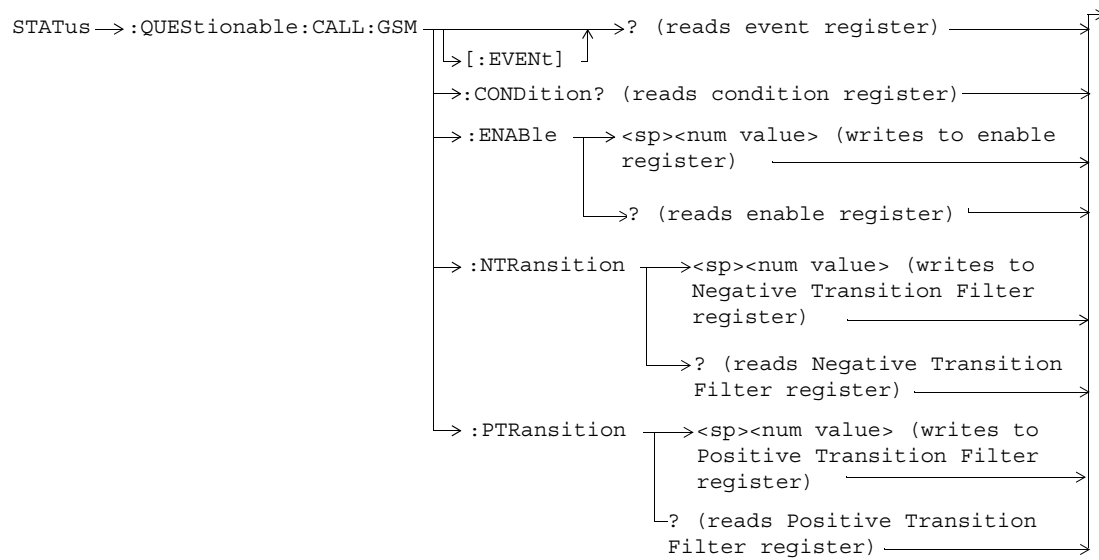


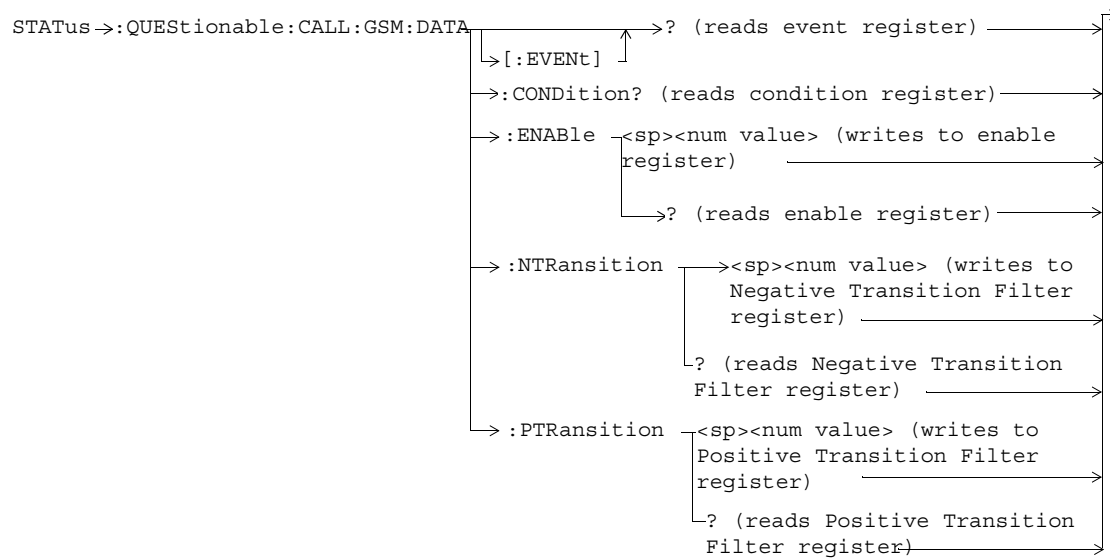
STATUS:QUESTIONABLE



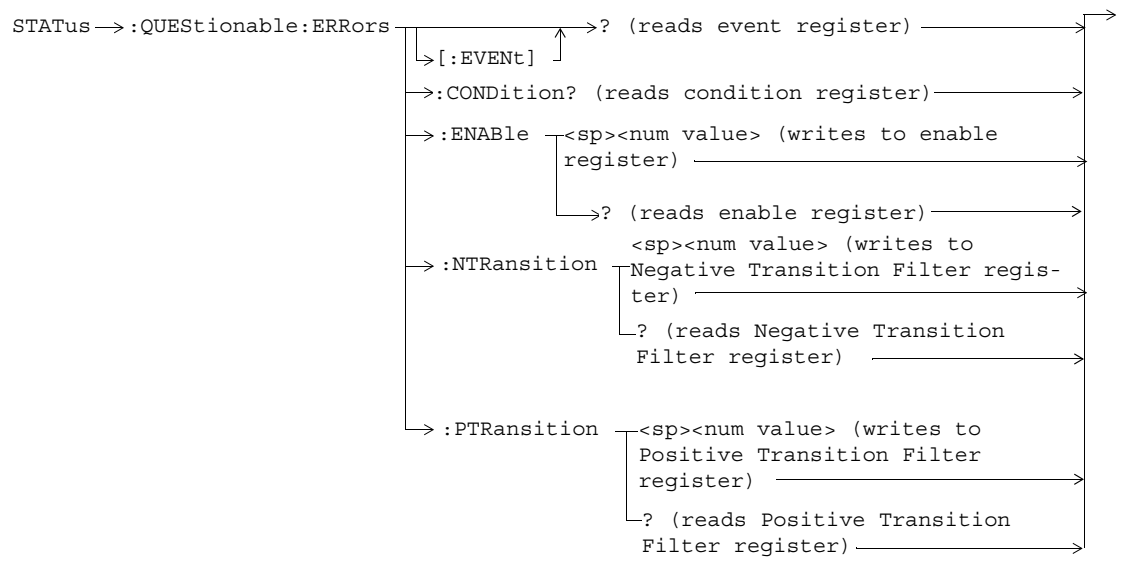


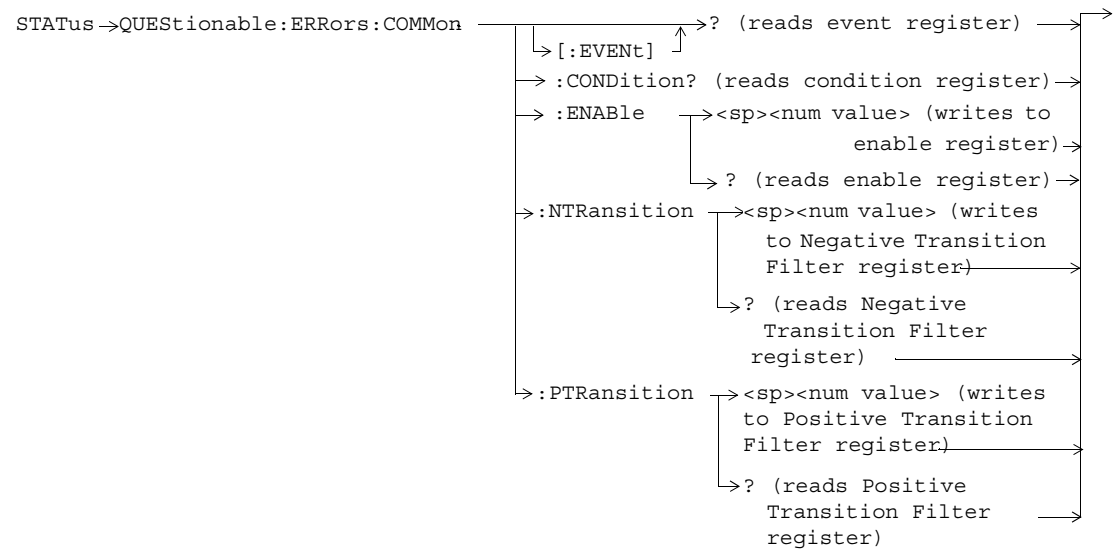


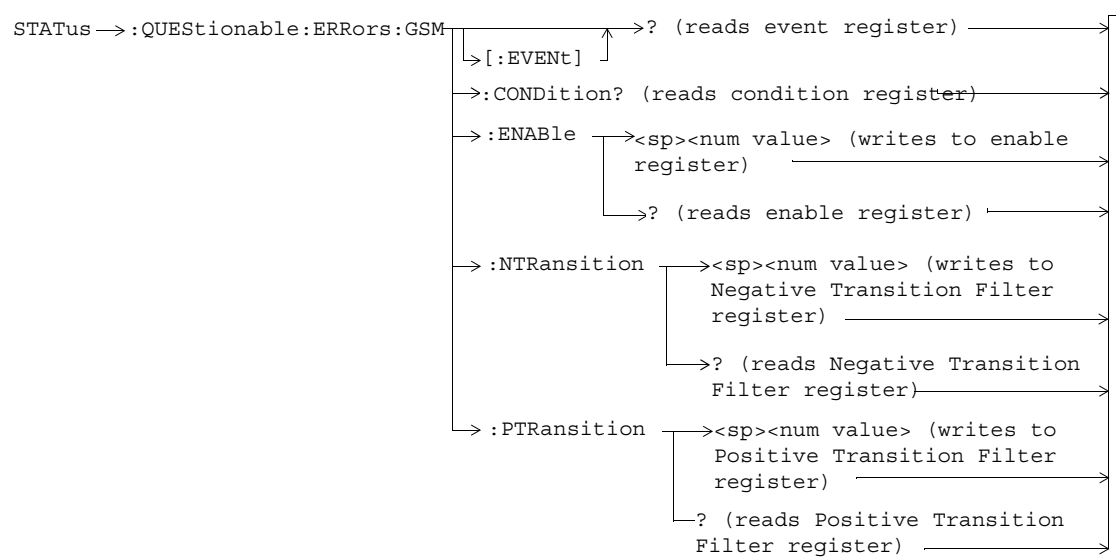


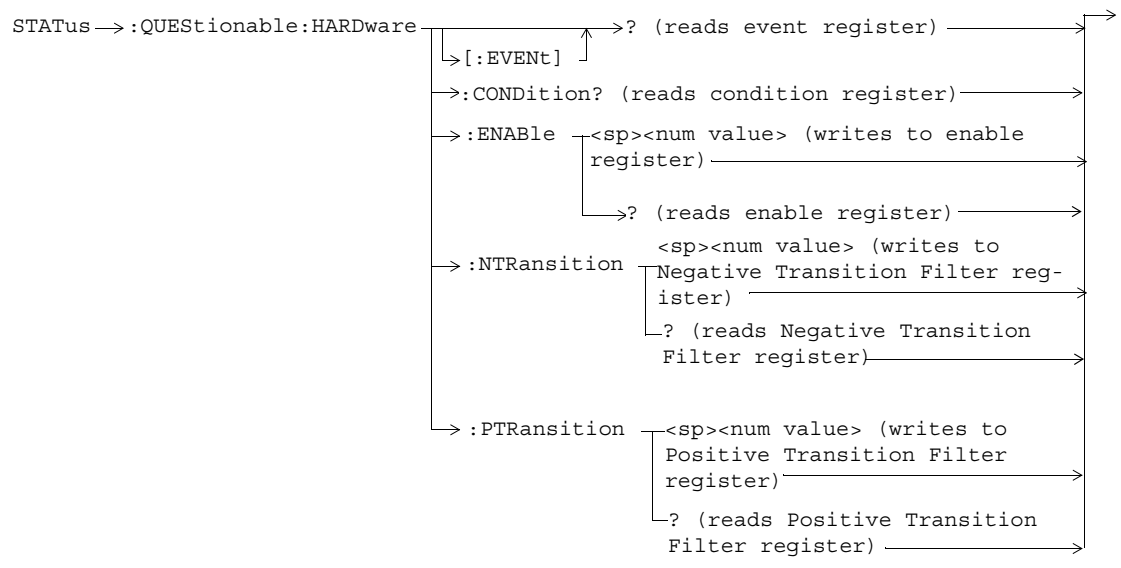


These commands are not applicable to GSM.









Status Byte Register

*STB?

*STB? _____ ↘→

Standard Event Status Register

*ESR?

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

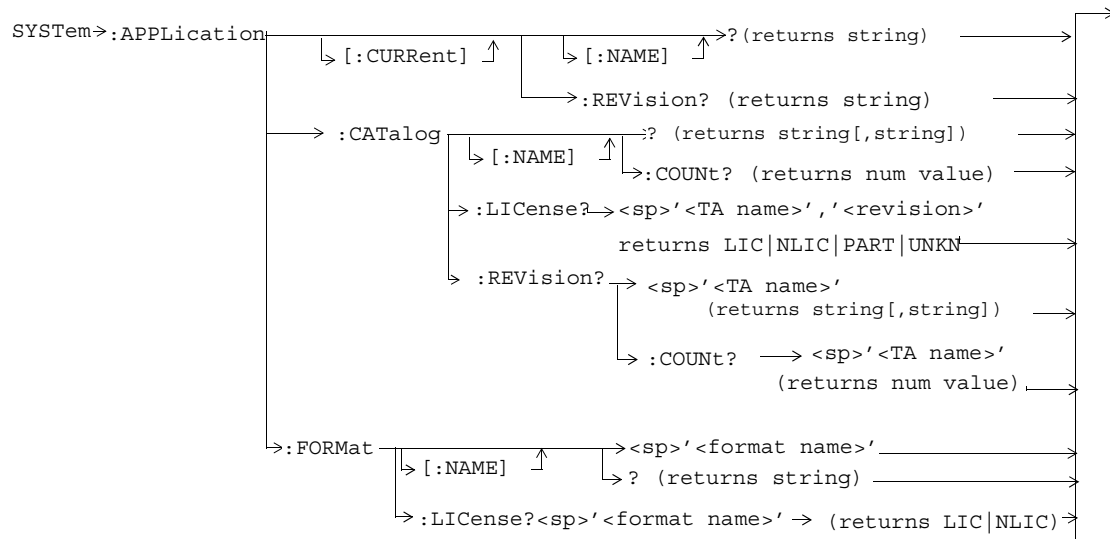
*ESE?

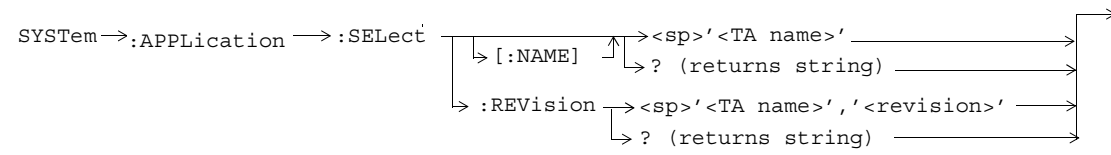
*ESE? —————> Reads the Std Event Status Register Enable Register ↗

*ESE

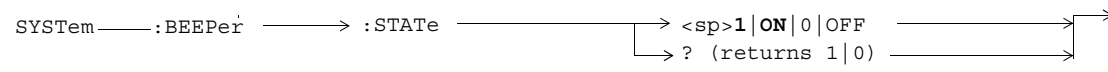
*ESE —————> Writes to the Std Event Status Register Enable Register ↗

SYSTEM:APPLICATION

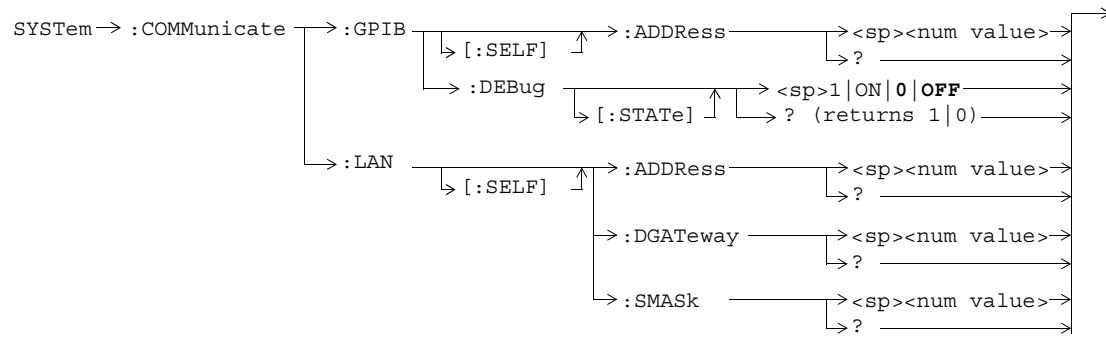




SYSTem:BEEPer



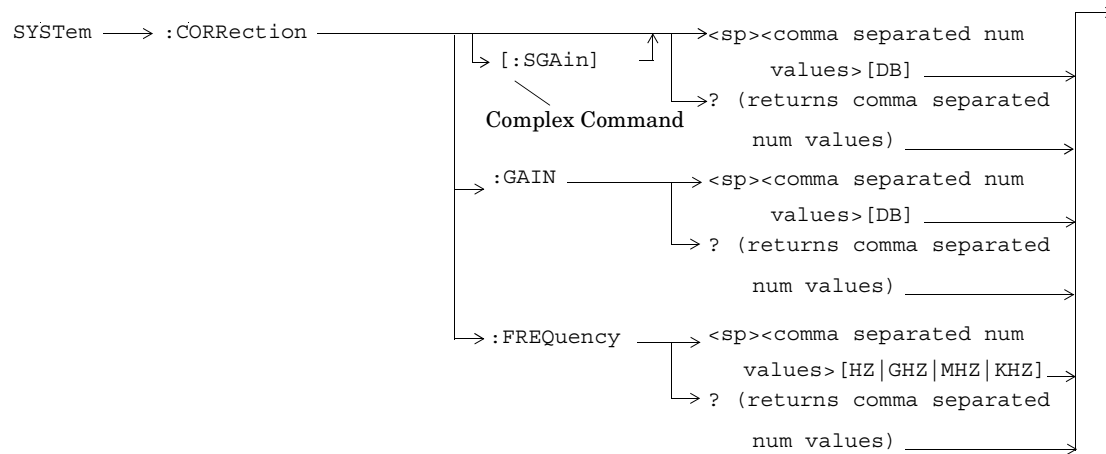
SYSTem:COMMunicate

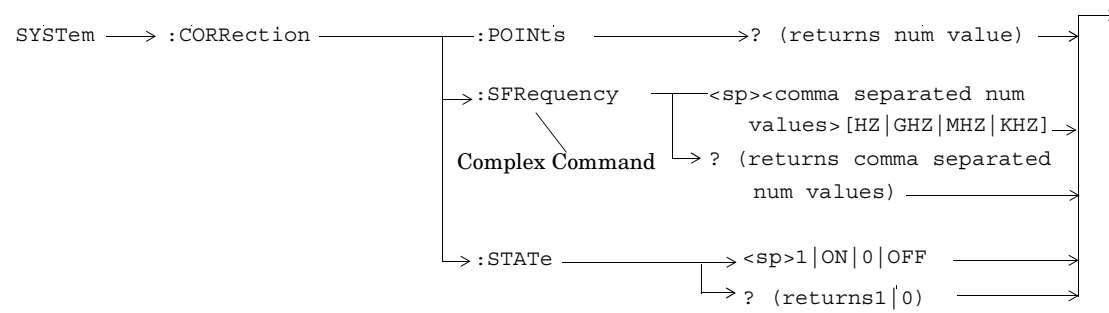


SYSTem:CONFigure

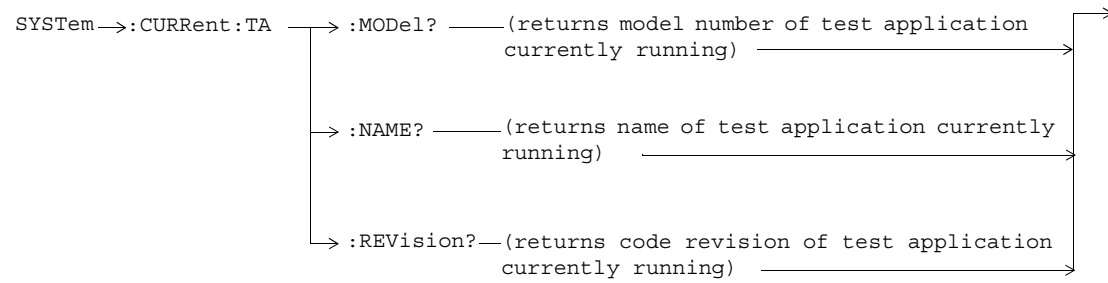
SYSTem → :CONFigure → :INFormation → :HARDware → :VERBose? → (returns model number,
serial number, revision
number, board ID and
Cal file information) ↪

SYSTem:CORRection





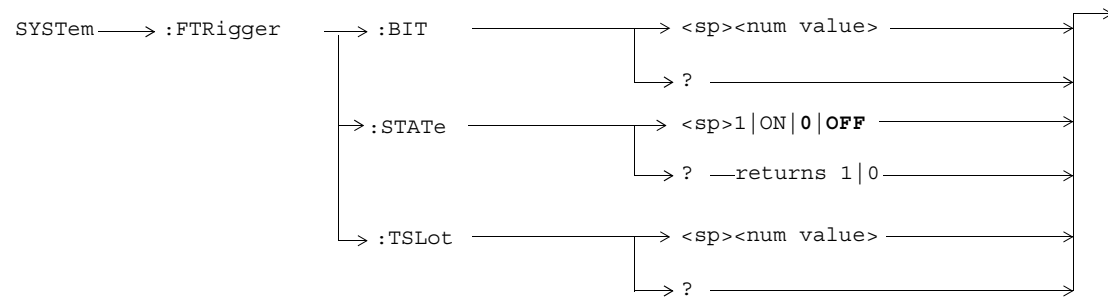
SYSTem:CURRent:TA



SYSTem:ERRor?

SYSTem → :ERRor? (returns contents of error/event queue) →

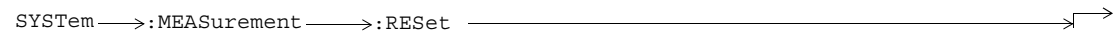
SYSTem:FTRigger



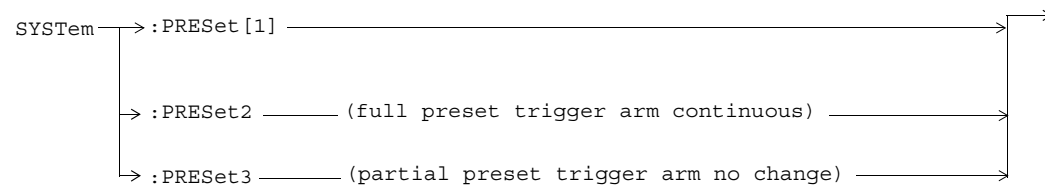
These commands are not applicable to GPRS.

SYSTem:MEASurement

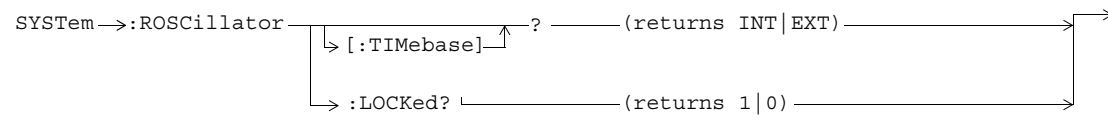
SYSTem → :MEASurement → :RESet →



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. A full preset is also accomplished using the SYSTem:PRESet2 command. A full preset restores the majority of settings to their default values and sets measurement trigger arm to single.

***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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