

GPIB Command Syntax

for

**GSM/GPRS/EGPRS Mobile Test Application E1968A Revision
A.03**

**GSM/GPRS Lab Application E6701C (including E6704A EGPRS)
Revision C.03**

1000-1889 (to order use part number **5971-5995**)



Agilent Technologies

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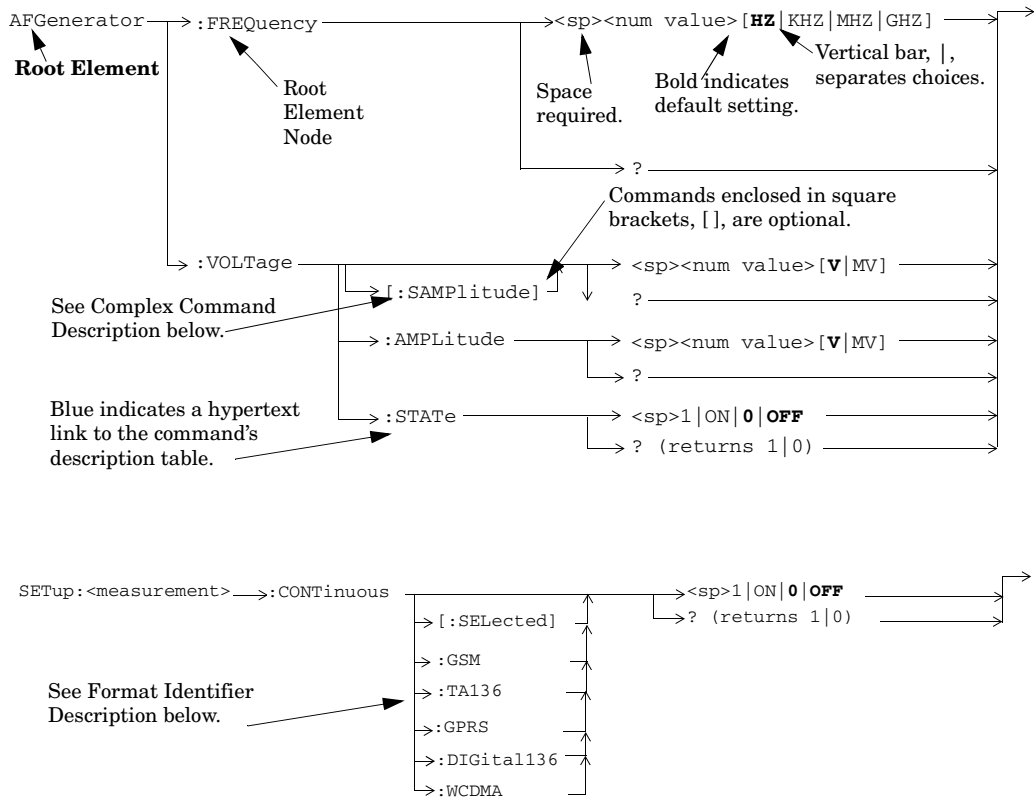
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Diagram Conventions

Description



GPiB Syntax for E1968A, E6701C and E6704A

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.

Format Identifier Description

In fast switching applications there are some GPiB commands/queries that are common to more than one radio format. Format identifiers are used to identify which radio format the command applies to. The format identifier is added at the end of the command string and makes it possible to, for example, perform measurement setup changes to an inactive format.

The command/query is sent to the active format if you don't use a format identifier.

Developing Code

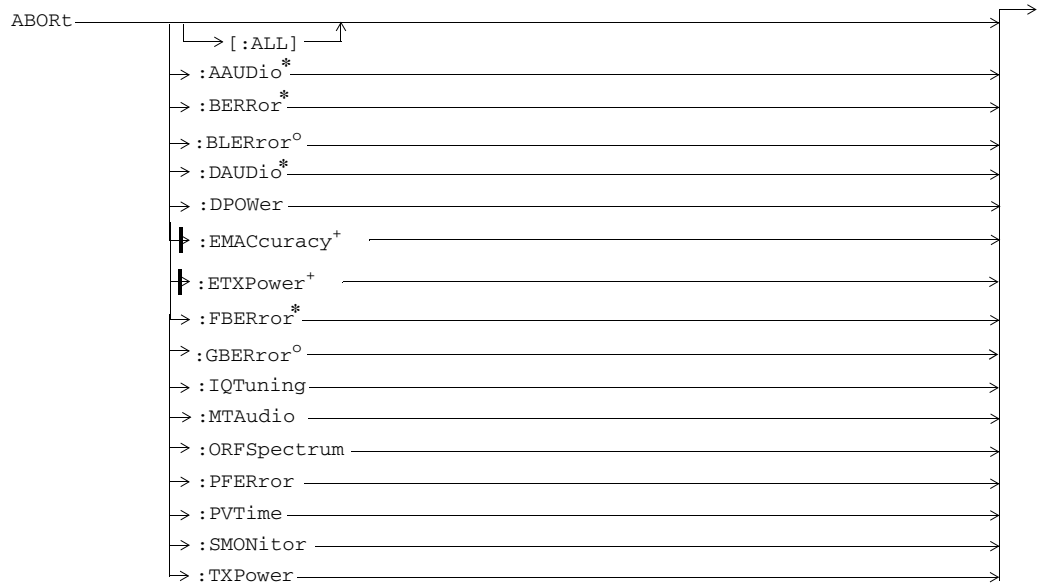
It is recommended that you set the Test Set's operating environment to debug. To set the Test Set debug mode to "ON" use the following syntax:

```
SYSTem:COMMunicate:GPiB:DEBug ON
```

Units-of-Measure

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

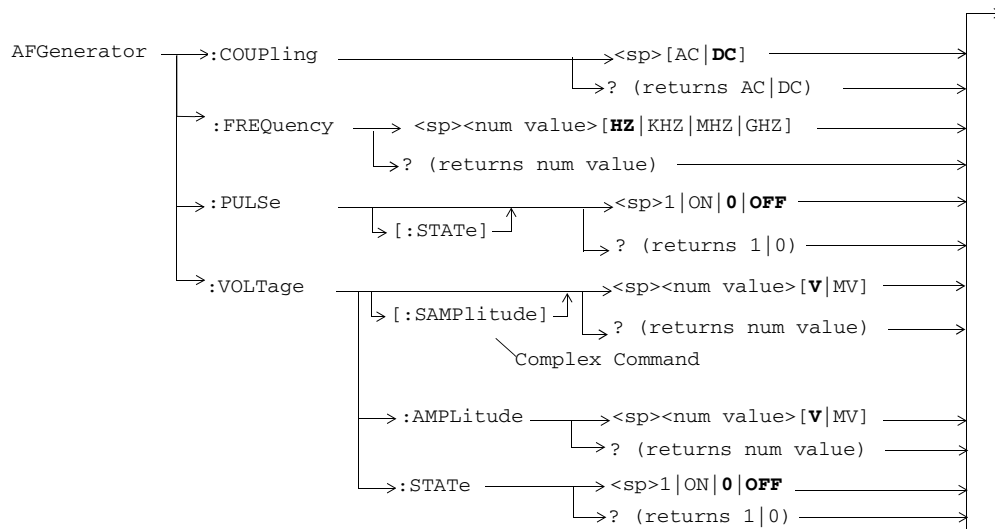
ABORt



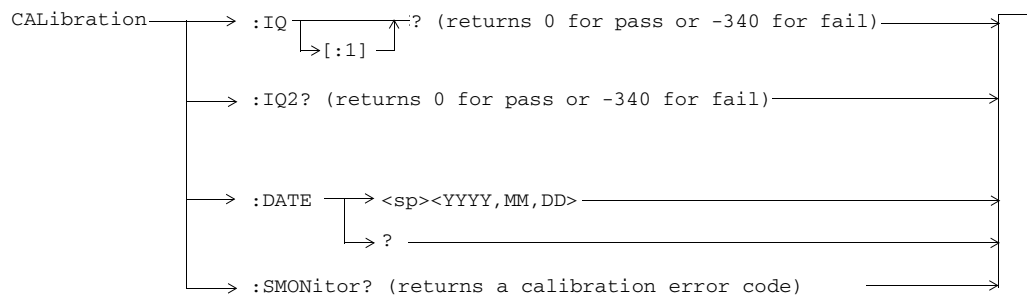
* Not applicable to GPRS.
 ° Not applicable to GSM.
 + Only applicable to EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A

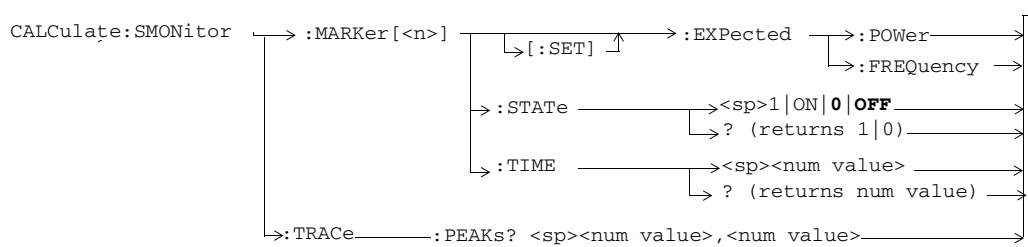
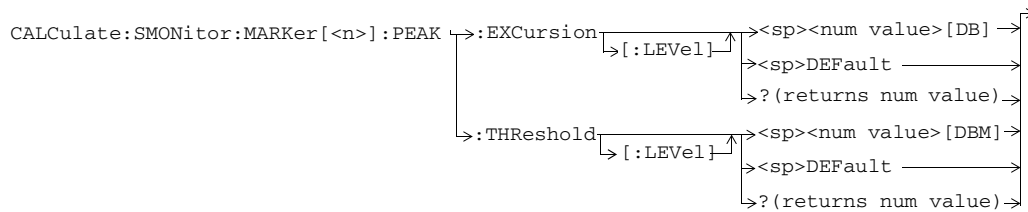
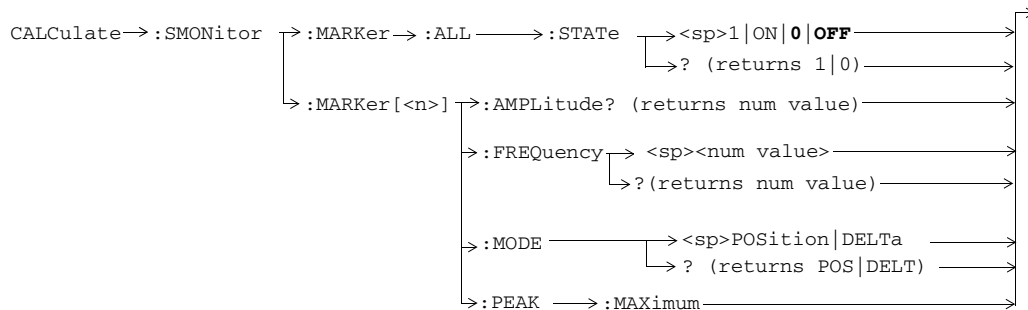
AFGenerator



CALibration

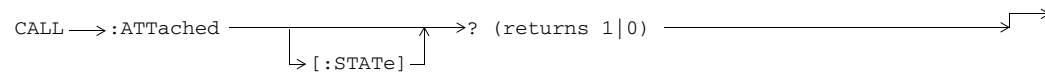


CALCulate:SMONitor



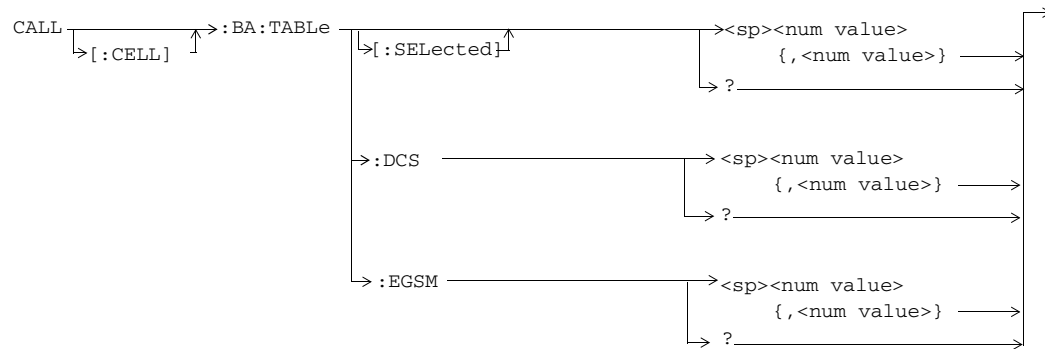
GPiB Syntax for E1968A, E6701C and E6704A

CALL:ATTached

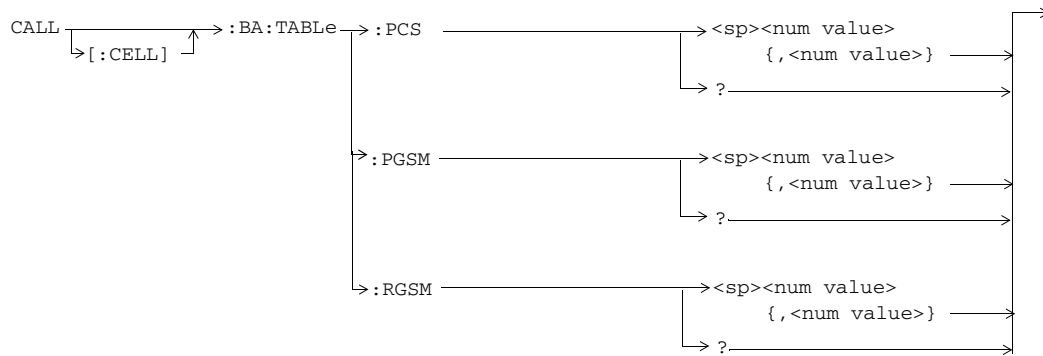
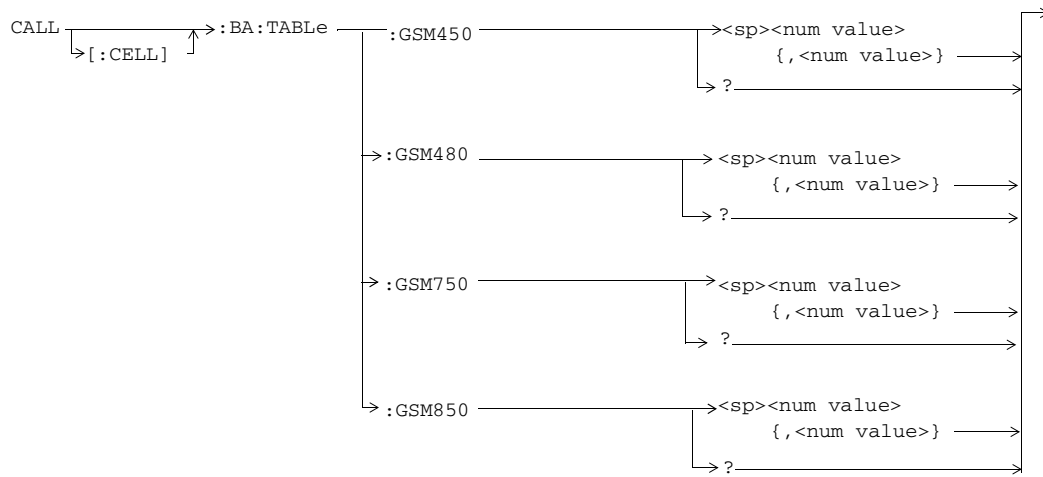


This diagram is not applicable to GSM.

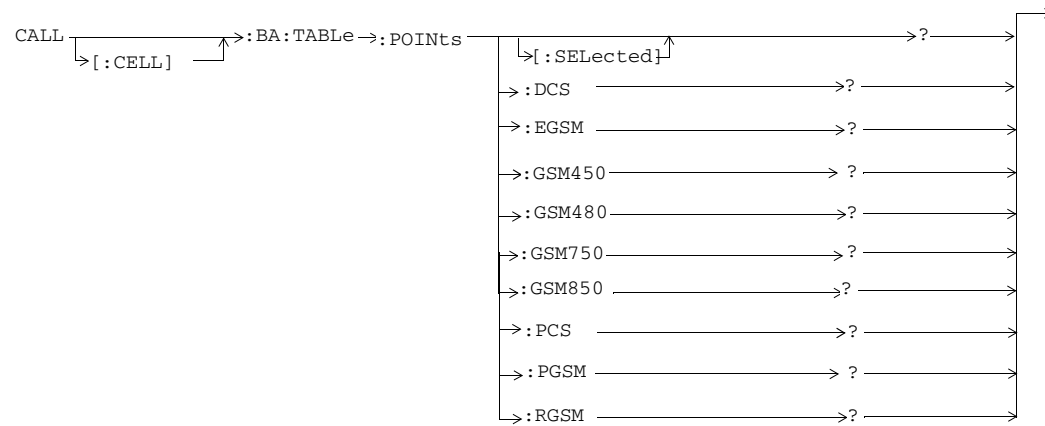
CALL:BA



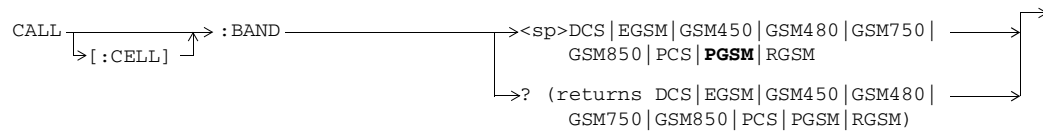
GPB Syntax for E1968A, E6701C and E6704A



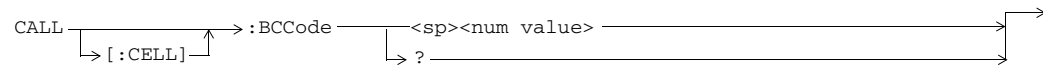
GPIB Syntax for E1968A, E6701C and E6704A



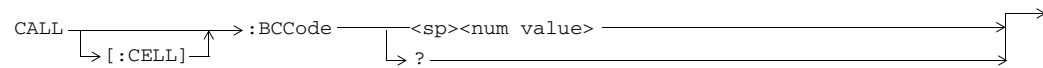
CALL:BAND



CALL:BCCode

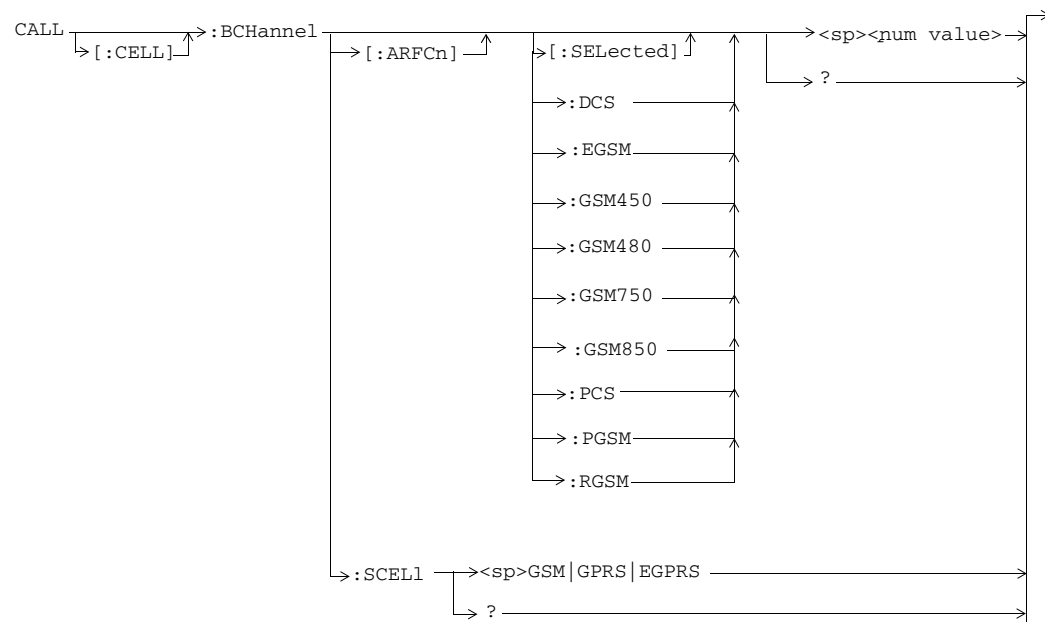


CALL:BCCode

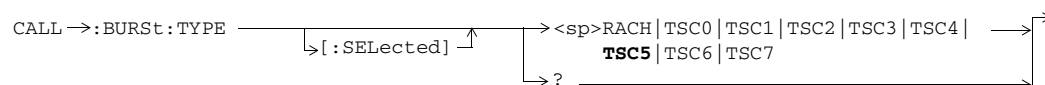


GPIB Syntax for E1968A, E6701C and E6704A

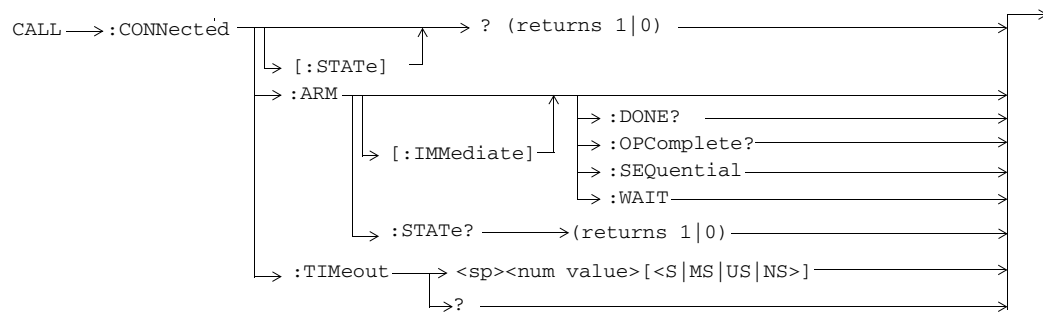
CALL:BCHannel



CALL:BURSt



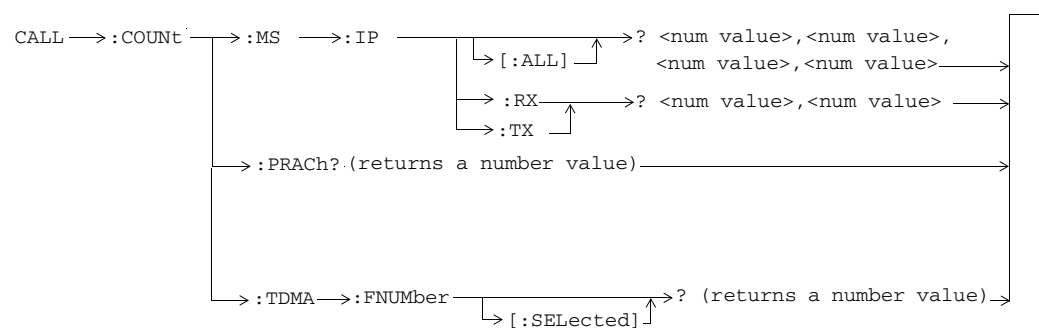
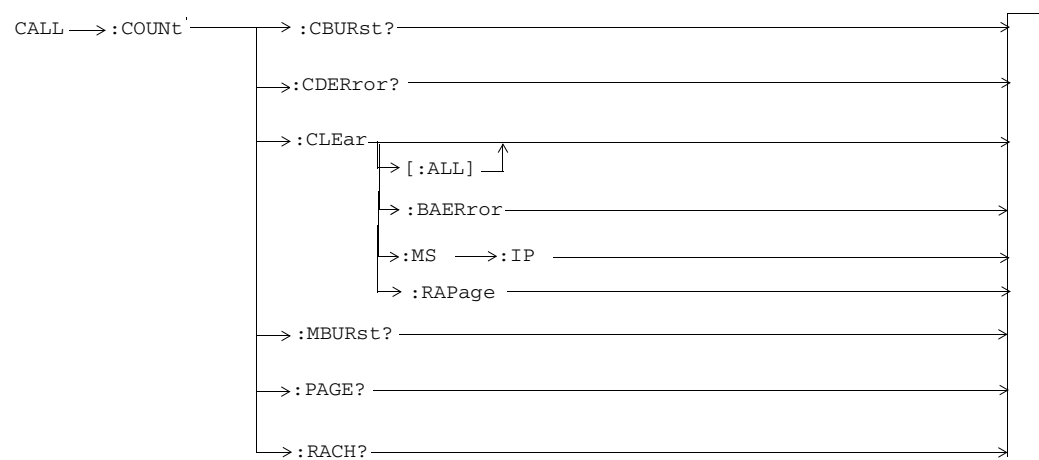
CALL:CONNEcted



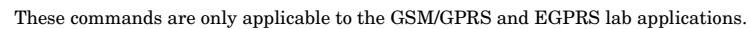
These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A

CALL:COUNT

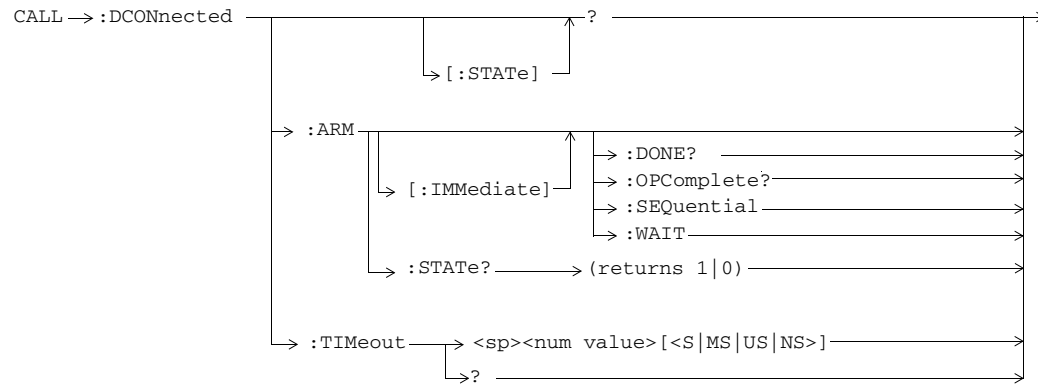


These commands are only applicable to the GPRS lab application.



GPiB Syntax for E1968A, E6701C and E6704A

CALL:DCONnected



These commands are not applicable to the GSM TA.

CALL:DEModulation

```

CALL---+:DEModulation---:DElay-----<sp><num value>---+
                                     +-----? returns <num value>---+
    
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

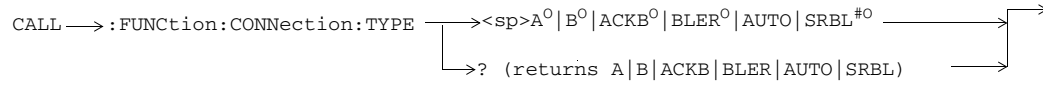
CALL:END

```

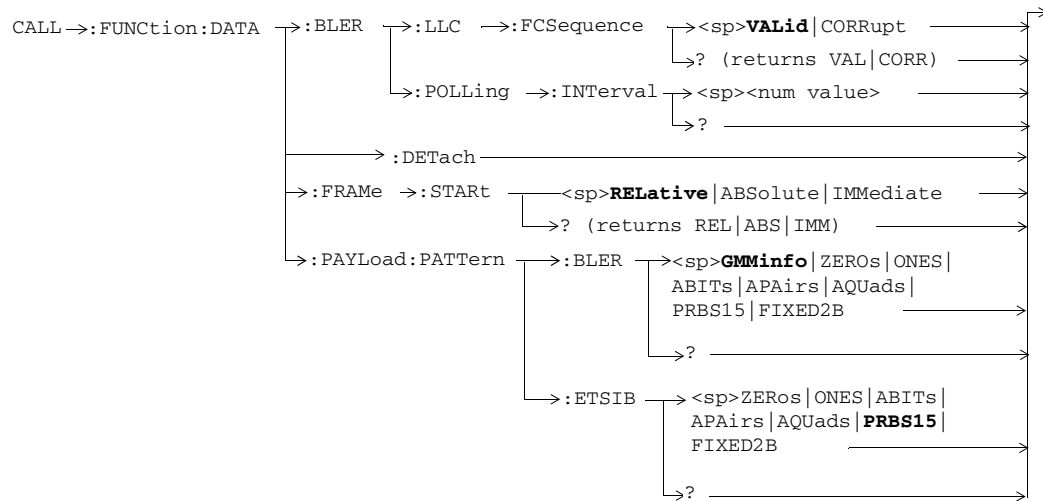
CALL -> :END ->
    
```

This command is not applicable to the GPRS TA.

CALL:FUNCTION

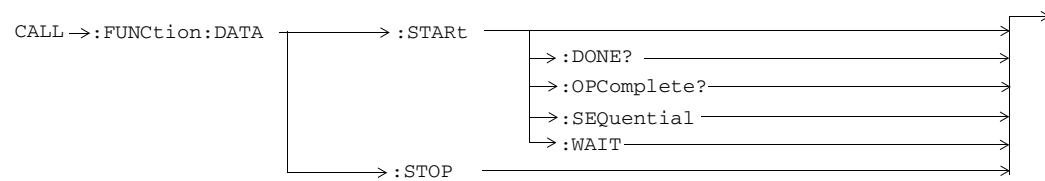


- o Not applicable to GSM TA.
- # Only applicable to EGPRS.



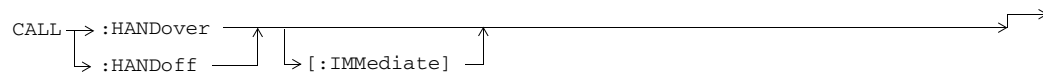
These commands are not applicable to GSM.

GPiB Syntax for E1968A, E6701C and E6704A



These commands are not applicable to GSM.

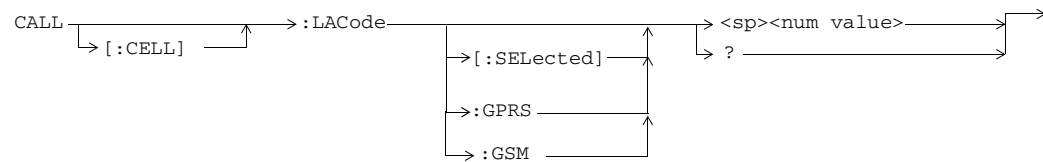
CALL:HANDoVer|HANDoFF



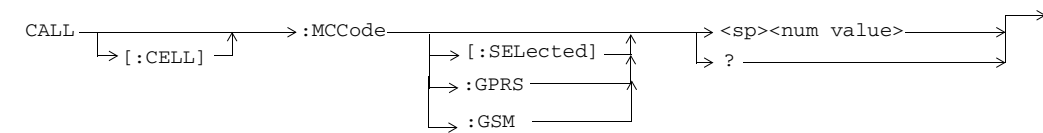
CALL:IMEI

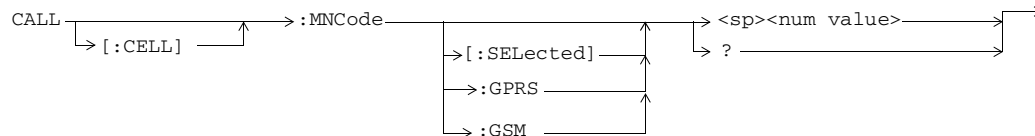


CALL:LACode



CALL:MCCode



CALL:MNCcode[illegible]

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CALL:MS

CALL → :MS → :CCHannel — :Power:OFFSet:DCS → <sp>0 | 1 | 2 | 3

CALL → :MS → :DTX → **<sp>1|ON|0|OFF** → **[:STATel]** → ? (returns 1|0)

This command is not applicable to the GPRS test application and GPRS and EGPRS lab applications.

```
CALL → :MS → :IP → :ADDRESS → <sp>'<string>' →
```

```

      |
      + ? (returns string) →

```

This command is applicable only to the GSM/GPRS and EGPRS lab applications.

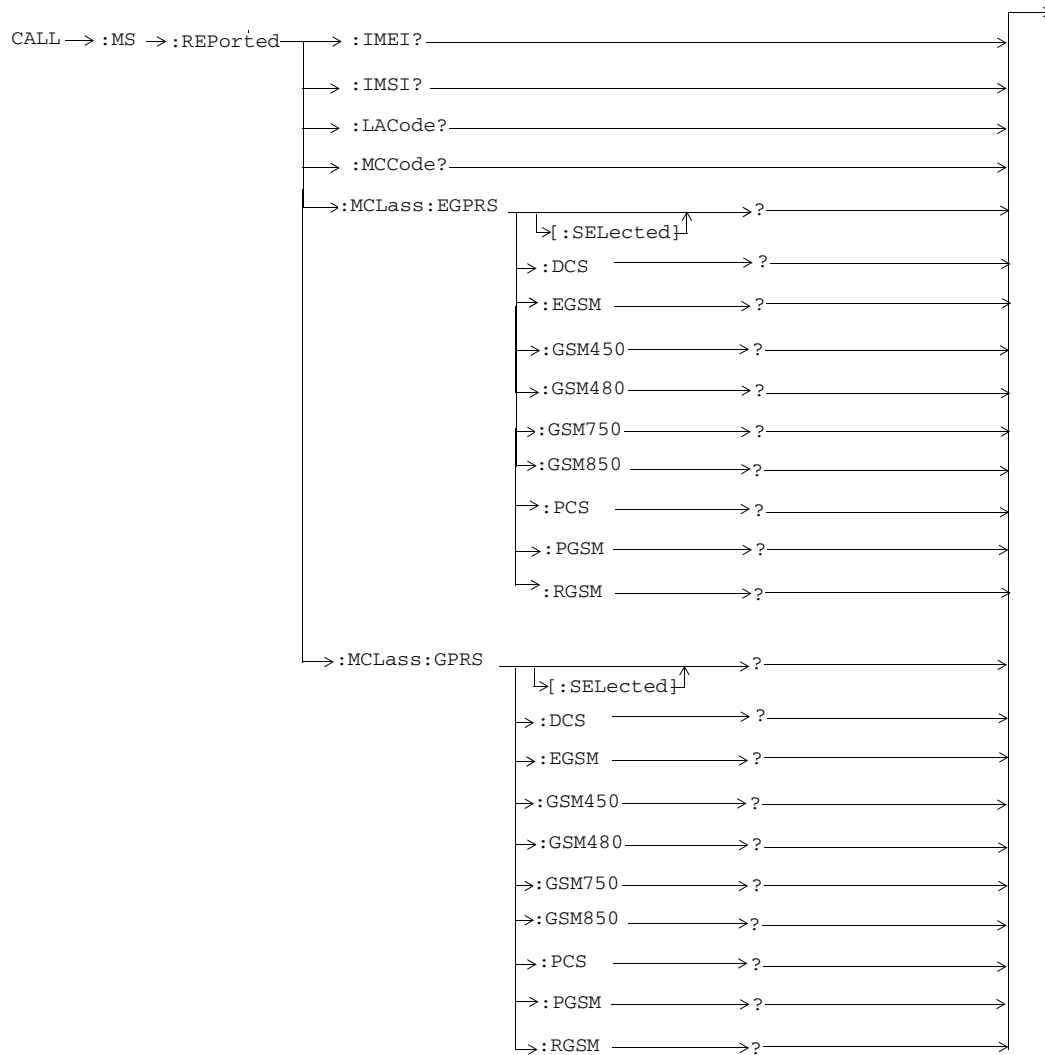
CALL → :MS → :REported → :CLear

This command is not applicable to the GPRS test application.

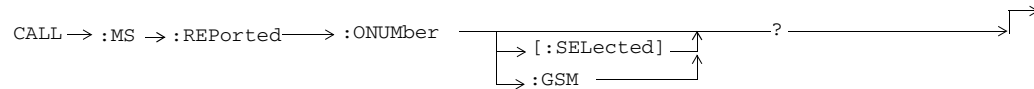
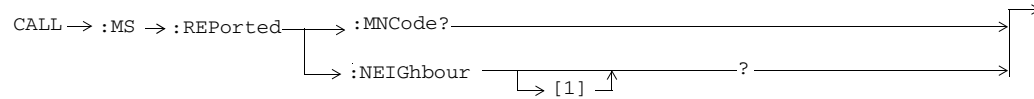
```
CALL → :MS → :REPORTed → :CVALue → :AVERAge? → (returns num value) →  
                                |  
                                |→ :ILEVel → :TSLot<Timeslot number> → :AVERAge?  
                                |  
                                |→ (returns num value) →
```

These commands apply only to the GSM/GPRS and EGPRS lab applications.

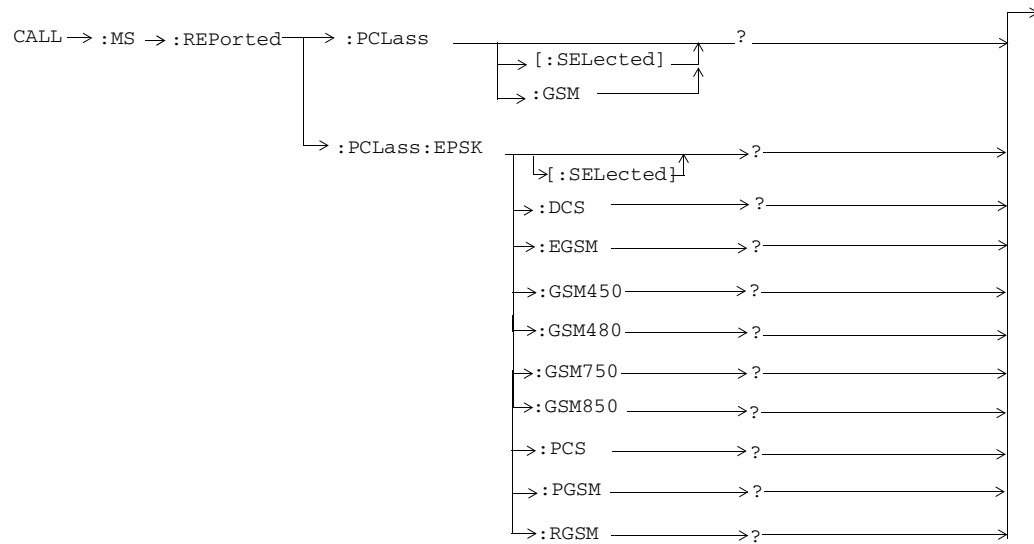
GPIB Syntax for E1968A, E6701C and E6704A



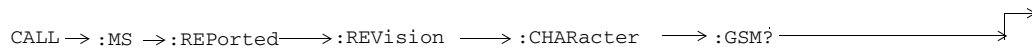
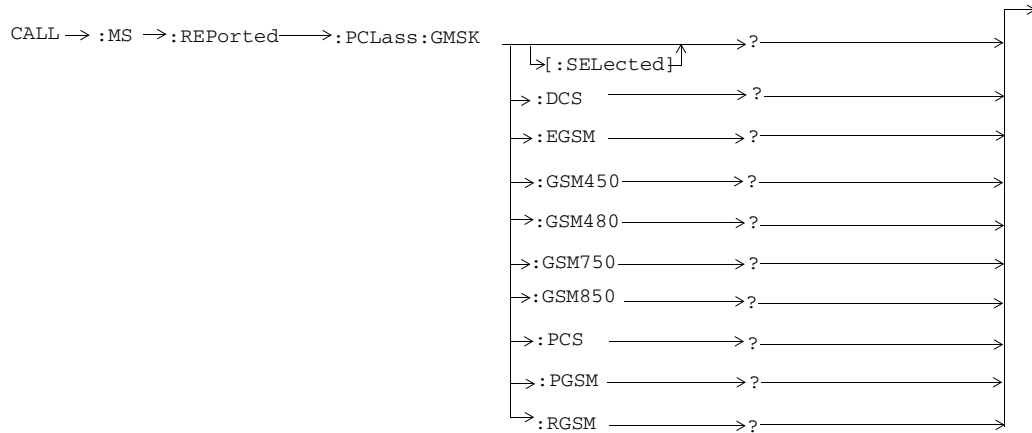
GPIB Syntax for E1968A, E6701C and E6704A



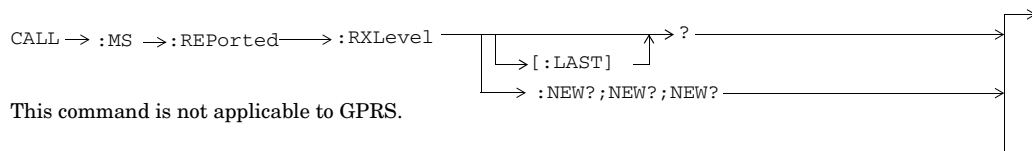
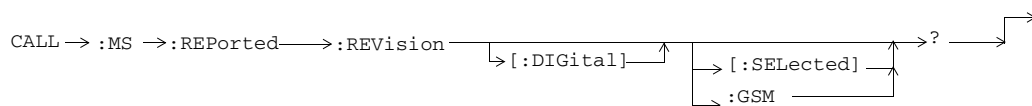
This command is not applicable to GPRS.



GPIB Syntax for E1968A, E6701C and E6704A

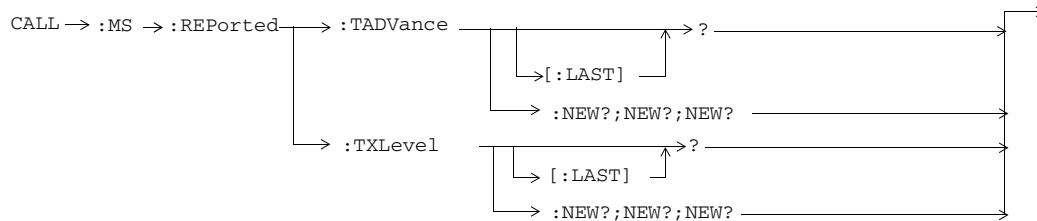


This command is not applicable to GPRS.

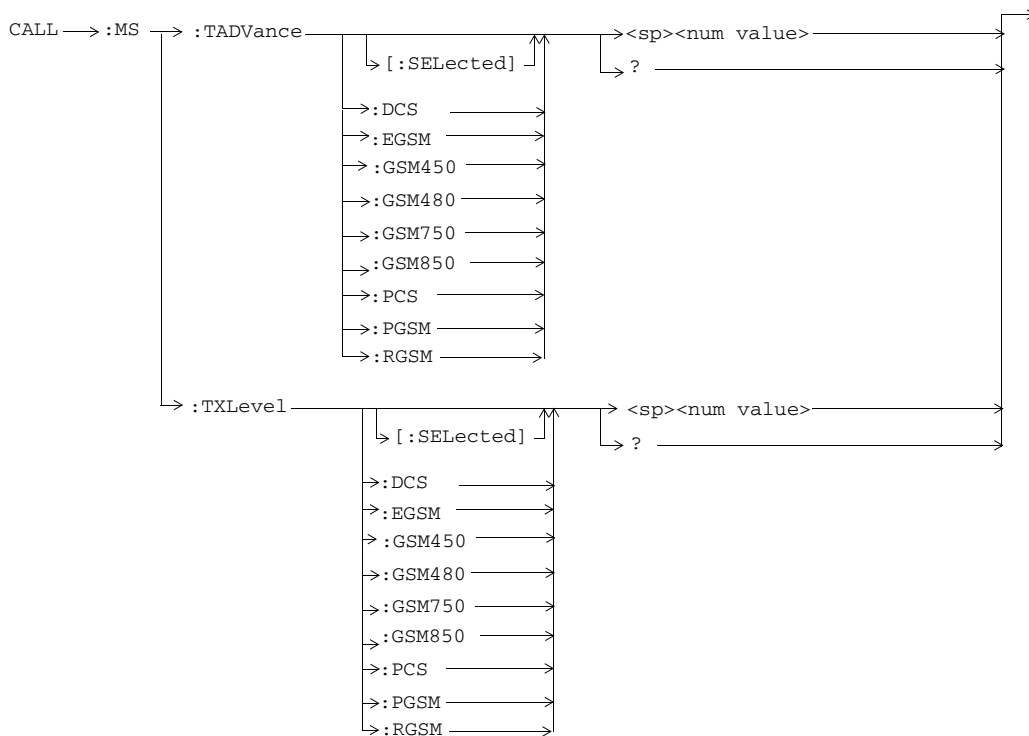


This command is not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A

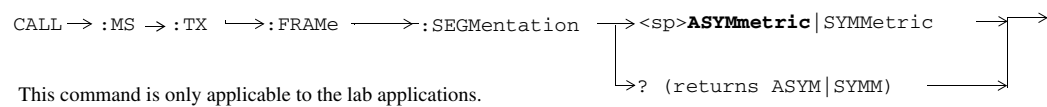
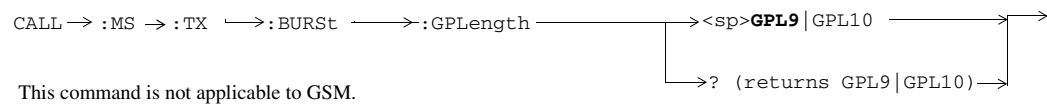
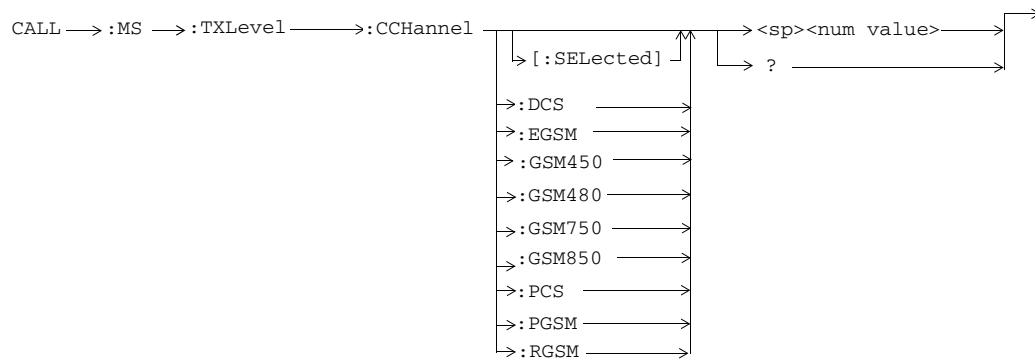


These commands are not applicable to GPRS.



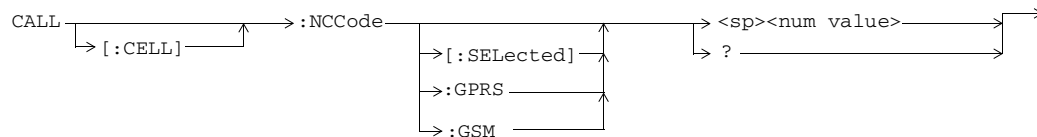
These commands are not applicable to GPRS.

GPB Syntax for E1968A, E6701C and E6704A

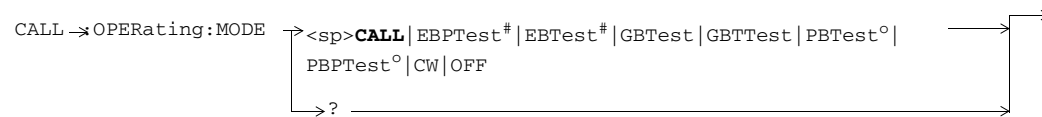


GPiB Syntax for E1968A, E6701C and E6704A

CALL:NCCode



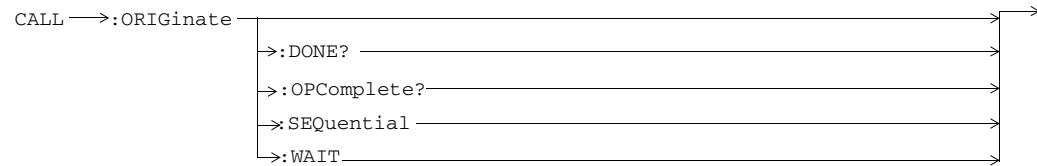
CALL:OPERating



Only applicable to EGPRS

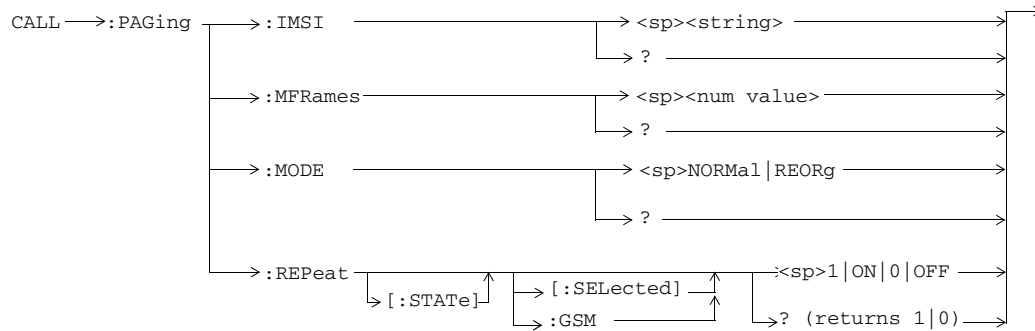
o Not applicable to GSM TA

CALL:ORIGinate



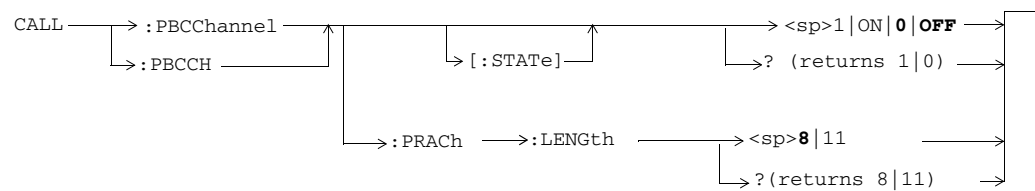
These commands are not applicable to the GPRS TA.

CALL:PAGing



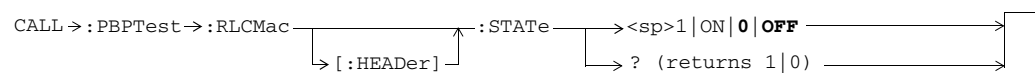
These commands are not applicable to the GPRS TA.

CALL:PBCChannel



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

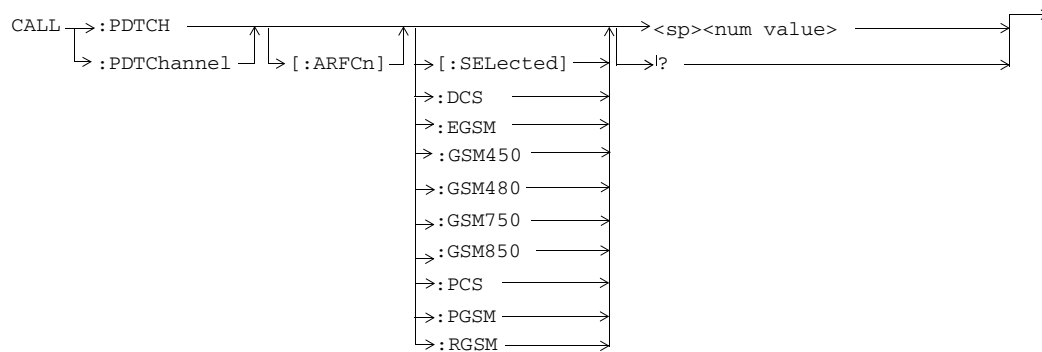
CALL:PBPTest



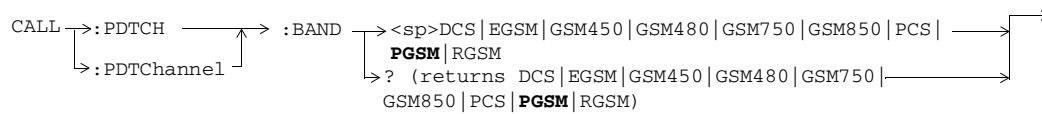
This command is not applicable to GSM.

GPB Syntax for E1968A, E6701C and E6704A

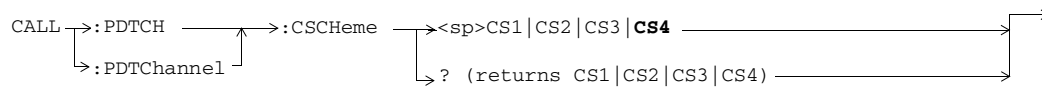
CALL:PDTCH|PDTChannel



These commands are not applicable to GSM.

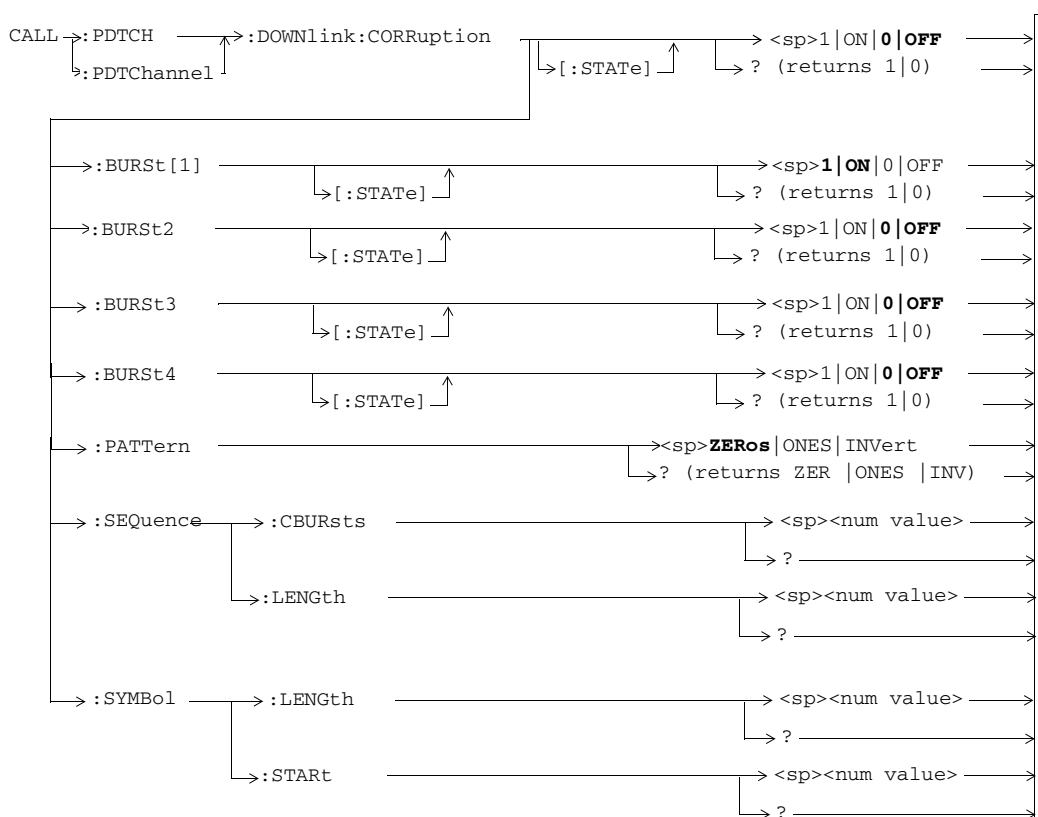


This command is not applicable to GSM.

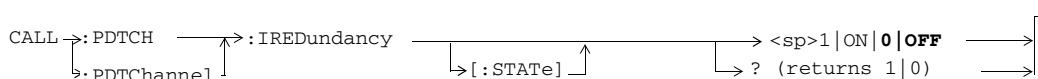


This command is not applicable to GSM or EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A

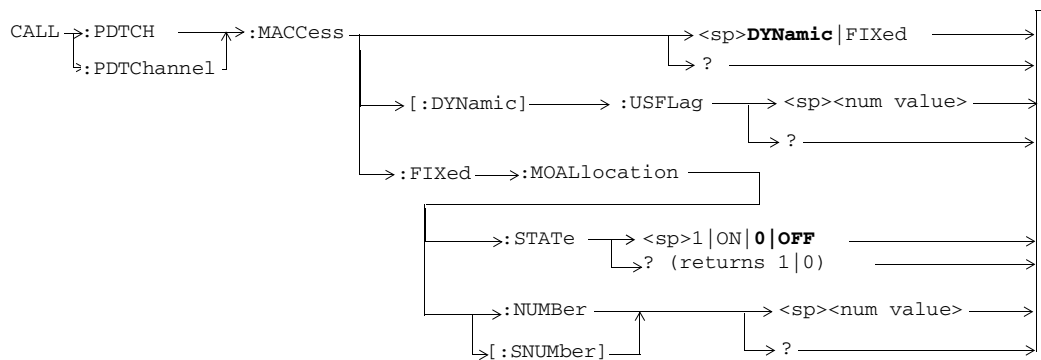


These commands are applicable only to the EGPRS lab application.

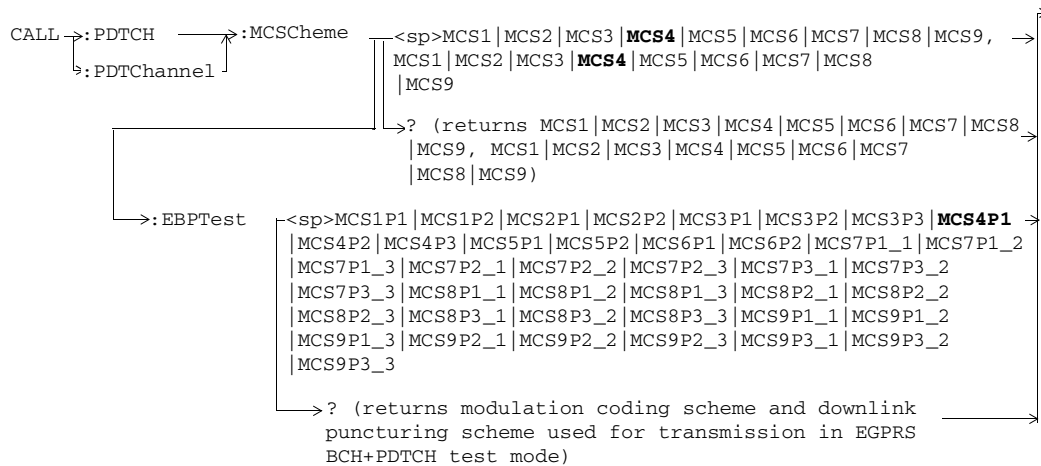


These commands are applicable only to the EGPRS lab application.

GPiB Syntax for E1968A, E6701C and E6704A

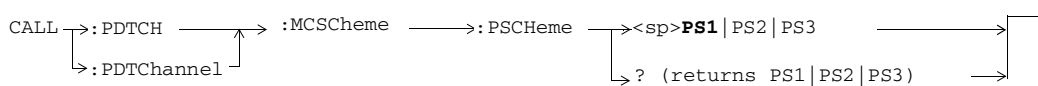


These commands are applicable only to the GSM/GPRS and EGPRS lab applications.

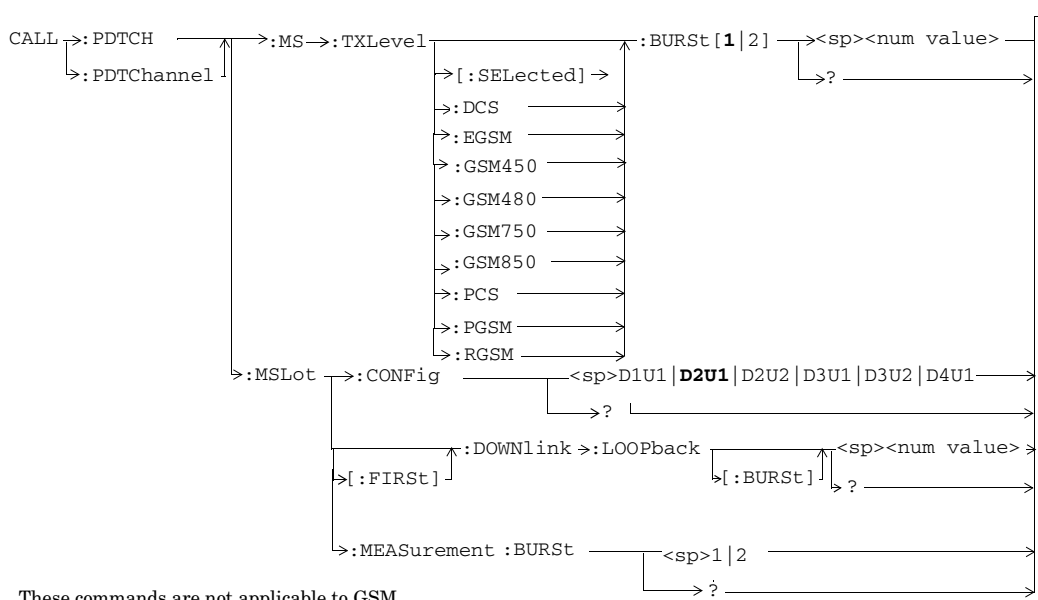


These commands are only applicable to EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A

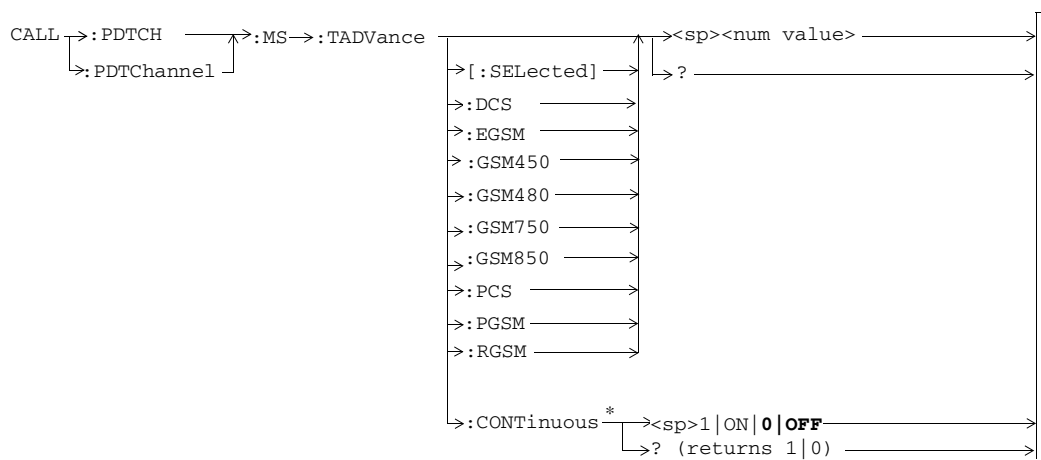


These commands are only applicable to the EGPRS lab application.



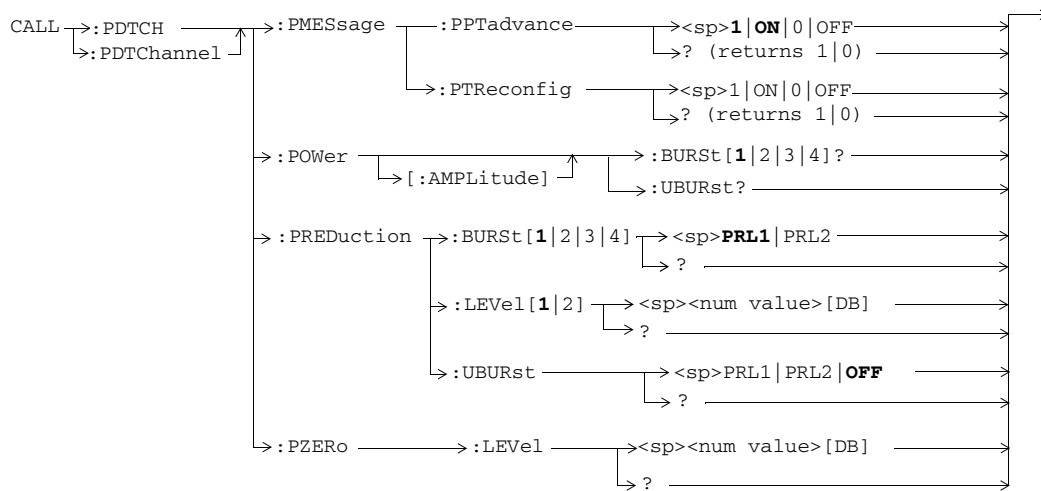
These commands are not applicable to GSM.

GPiB Syntax for E1968A, E6701C and E6704A



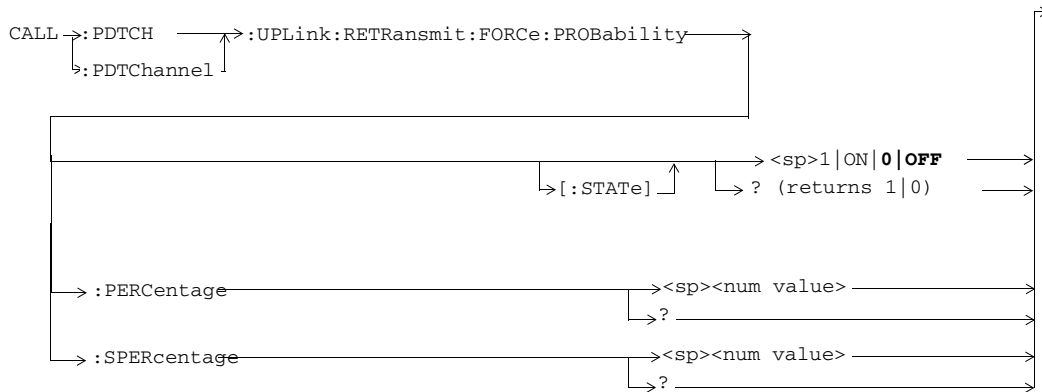
These commands are not applicable to GSM.

*Only applicable to the GSM/GPRS and EGPRS LAs.

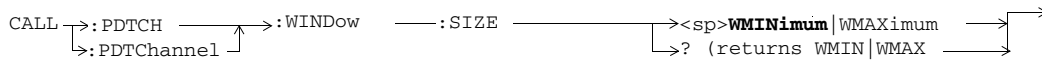


These commands are not applicable to GSM.

GPIB Syntax for E1968A, E6701C and E6704A



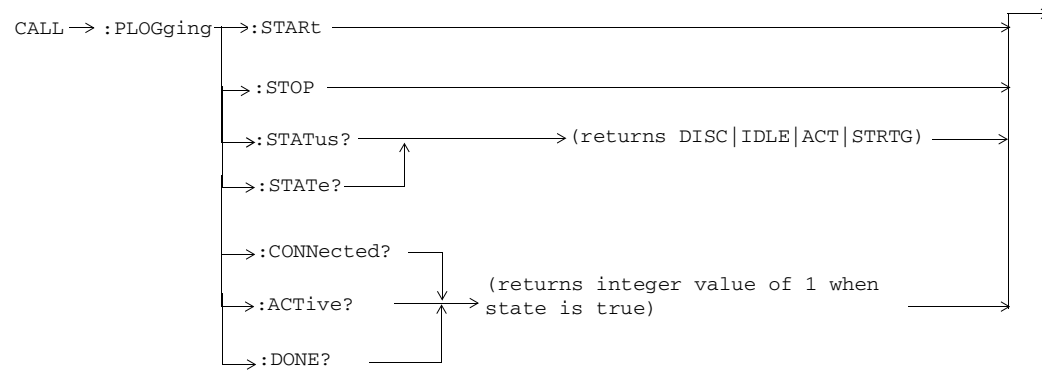
These commands are applicable only to the EGPRS lab application.



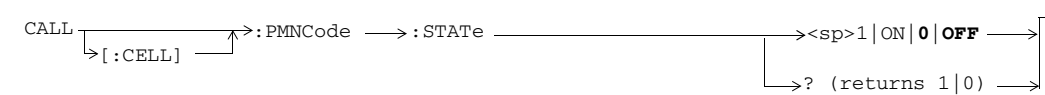
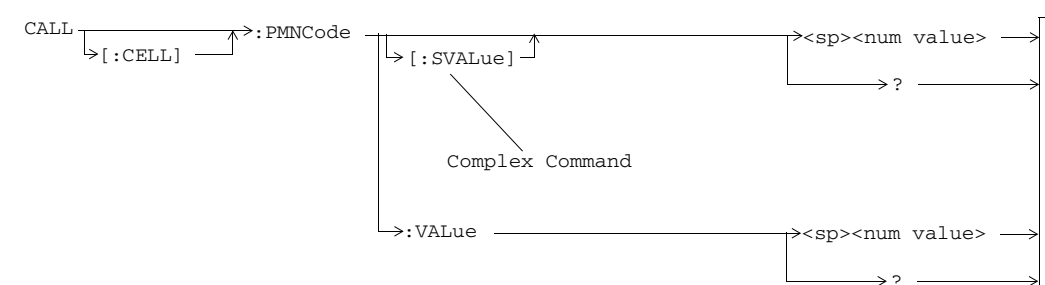
These commands are only applicable to the lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

CALL:PLOGging

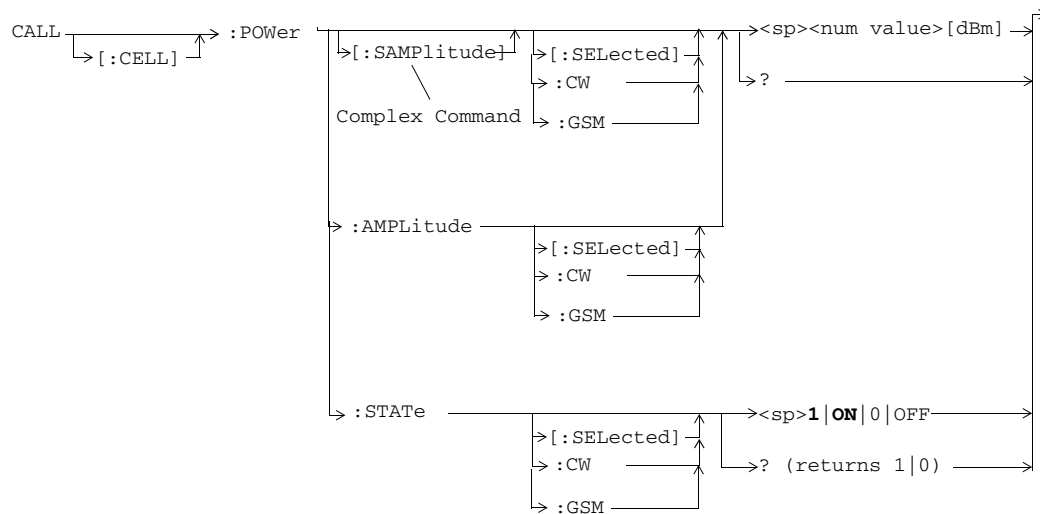


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

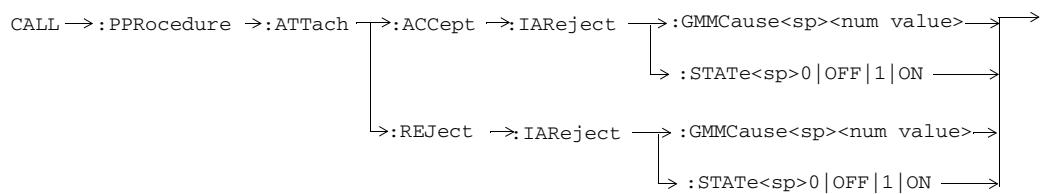
CALL:PMNCode

GPIB Syntax for E1968A, E6701C and E6704A

CALL:POWer



CALL:PPRocedure:ATTach



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:DETach

```
CALL---:PPRocedure--+                               +->
      |
+-----+
|
+--:DETach---:REQuest-----+
      |
      +[:IMMediate]+
      |
      +:GMMCause-----+-----<sp><num value>--+
                        +-----? returns <num value>--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:IDEntity

```
CALL---:PPRocedure--+                               +->
      |
+-----+
|
+--:IDEntity---:REQuest-----+
      |
      +[:IMMediate]+
      |
      +:RESults-----+-----? returns 4x<string>--+
      |
      +:CLEar-----+
      |
      +:TYPE-----+-----<sp>EISV|IMEI|IMSI|TMSI--+
                        +----? returns EISV|IMEI|IMSI|TMSI--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

CALL:PPRocedure:PDPContext

```
CALL---:PPRocedure---:PDPContext---:AACcept--+
|
+-----+
|
+---:QOService---:RCLass---+:ENForce-----+-----+-----<sp><num value>--+
|
|                                     +[:SVALue]+ +-? returns <num value>--+
|                                     |
|                                     +:STATe-----+-----<sp>1|ON|0|OFF--+
|                                     |               +-----? returns 1|0--+
|                                     |
|                                     +:VALue-----+-----<sp><num value>--+
|                                     +-? returns <num value>--+
|
|                                     +:SUBScribed--+-----<sp><num value>--+
|                                     +-----? returns <num value>--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

```
CALL---:PPRocedure---:PDPContext--+
|
+-----+
|
+---:AREJect---+:SMCause--+-----<sp><num value>--+
|               +-? returns <num value>--+
|
|               +:STATe--+-----<sp>1|ON|0|OFF--+
|               +-----? returns 1|0--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:ADATa

```
CALL---:PPRocedure---:PMEasurement--+          +-->
|
+-----+
|
+---:ADATa---+:ACKnowledged-----? returns 1|0--+
|
|          +---? returns EXCL|INCL--+
|
|          +---? returns EXCL|INCL--+
|
+---:MORE-----+-----<sp><num value>--+
|
|          +---? returns <num value>--+
|
|          +---? returns EXCL|INCL--+
|
+---:RADATA-----+-----<sp>EXCLude|INCLude--+
|
|          +---? returns EXCL|INCL--+
|
|          +---? returns EXCL|INCL--+
|
+---:RELease98-----+-----<sp>EXCLude|INCLude--+
|
|          +---? returns EXCL|INCL--+
|
+---:SEND-----+
|
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:MPRequest

```
CALL---:PPRocedure---:PMEasurement---:MPRequest---:MADATA---+          +-->
|
+-----+
|
+---+-----+-----<sp>EXCLude|INCLude--+
|
|          +---? returns EXCL|INCL--+
|
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

```

CALL---:PPRocedure---:PMEasurement---:MPRequest---:MADData---+
|
+-----+
|
+--+:BTS<n>---+:BCHCarrier---+-----<sp><num value>---+
|                                     +-----? returns <num value>---+
|                                     |
+--:BSICode-----+-----<sp><num value>---+
|                                     +-----? returns <num value>---+
|                                     |
+--:CASSistance---+-----<sp>EXCLUDE|INCLUDE---+
|                                     +-----? returns EXCL|INCL---+
|                                     +:FRTDiff-----+-----<sp><num value>---+
|                                     |                                     +-----? returns <num value>---+
|                                     |                                     |
|                                     +:RALTitude---+-----<sp>EXCLUDE|INCLUDE---+
|                                     |                                     +-----? returns EXCL|INCL---+
|                                     |                                     +:VALue---+-----<sp><num value>---+
|                                     |                                     +-? returns <num value>---+
|                                     |
|                                     +:REASt-----+-----<sp><num value>---+
|                                     |                                     +-----? returns <num value>---+
|                                     |
|                                     +:RNORth-----+-----<sp><num value>---+
|                                     |                                     +-----? returns <num value>---+
|                                     |
+--:MOFFset-----+-----<sp><num value>---+
|                                     +-----? returns <num value>---+

```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

```
CALL---:PPRocedure---:PMEasurement---:MPRequest---:MADat---+      +-->
                                     |                          |
+-----+-----+-----+-----+-----+-----+-----+-----+
|
+--+:BTS-----+:NUMBER-----+-----<sp><num value>--+
                                     +-----? returns <num value>--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

```
CALL---:PPRocedure---:PMEasurement---:MPRequest---:MADat---+      +-->
                                     |                          |
+-----+-----+-----+-----+-----+-----+-----+-----+
|
+--+:BTS<n>---+:RRTDiff-----+-----<sp><num value>--+
                                     |                          |
                                     +-----? returns <num value>--+
                                     |
                                     +:TSSScheme-----+-----<sp><num value>--+
                                     +-----? returns <num value>--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

```

CALL---:PPRocedure---:PMEasurement---:MPRequest--+          +-->
|
+-----+
|
+---:PINstruction---+:ACCuracy---+-----<sp>EXCLude| INCLude--+
|                                     +-----? returns EXCL| INCL--+
|                                     +:VALue---+-----<sp><num value>--+
|                                     +-? returns <num value>--+
|
+---:ECharacter---+-----<sp>EXCLude| INCLude--+
|                                     +-----? returns EXCL| INCL--+
|                                     +:VALue---+-----<sp><num value>--+
|                                     +-? returns <num value>--+
|
+---:MSETs-----+-----<sp><num value>--+
|               +-----? returns <num value>--+
|
+---:MTYPE-----+-----<sp><num value>--+
|               +-----? returns <num value>--+
|
+---:RTIME-----+-----<sp><num value>--+
|               +-----? returns <num value>--+

```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

```

CALL---:PPRocedure---:PMEasurement---:MPRequest--+
|
+-----+
|
+---:RAData--+-----<sp>EXCLude|INCLude--+
|
+-----? returns EXCL|INCL--+
+---:BTSPosition--+-----<sp>EXCLude|INCLude--+
|
+-----? returns EXCL|INCL--+
+---:ALTitude--+-----<sp><num value>--+
|
+-----? returns <num value>--+
|
+---:DIRection--+-----<sp>ABOVe|BELow--+
|
+-----? returns ABOV|BEL--+
|
+---:LATitude---:DEGREes---+-----<sp><num value>--+
|
|
+---? returns <num value>--+
|
|
+---:SIGN-----+-----<sp>NORT|SOUT--+
|
+-----? returns NORT|SOUT--+
|
+---:LONGitude---:DEGREes---+-----<sp><num value>--+
|
+---? returns <num value>--+
|
+---:TYPE-----+-----<sp>EPALtitude|EPOint--+
|
+-----? returns EPAL|EPO--+

```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

```

CALL---:PPRocedure---:PMEasurement---:MPRequest--+          +-->
|
+-----+
|
+--+:RELease98--+-----<sp>EXCLude|INCLude--+
|          +-----? returns EXCL|INCL--+
|          +:BTS[1-8]---:EOTDiff--+-----<sp><num value>--+
|          +-----? returns <num value>--+
|          +:UNCertainty--+-----<sp><num value>--+
|          +-? returns <num value>--+
|
+ :SEND-----+

```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PERRor

```
CALL---:PPRocedure---:PMEasurement--+    +->
                                     |    |
+-----+
|
+--:PERRor--+CODE-----<sp><num value>--+
          |           +-? returns <num value>--+
          |
          +:SEND-----+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESpOnse:AVAILable?

```
CALL---:PPRocedure---:PMEasurement---:PRESpOnse--+    +->
                                     |    |
+-----+
|
+--:AVAILable-----? returns 1|0--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PRESpOnse:LIERror

```
CALL---:PPRocedure---:PMEasurement---:PRESpOnse--+    +->
                                     |    |
+-----+
|
+--:LIERror-----+:INCLuded-----? returns 1|0--+
          +:REASon-----? returns <num value>--+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

CALL:PPRocedure:PMEasurement:PREsponse:LINformation

```
CALL---:PPRocedure---:PMEasurement---:PREsponse---+>
|
+-----+
|
+---:LINformation---:FTYPE-----? returns <num value>---+
|
|   +:INCLuded-----? returns 1|0---+
|   +:PEStimate---:ALTitude-----? returns <num value>---+
|   |               |               +:DIRection-----? returns <num value>---+
|   |               |               +:UNCertainty---? returns <num value>---+
|   |               |               |
|   |               +:CONFidence-----? returns <num value>---+
|   |               +:LATitude---:DEGREes-----? returns <num value>---+
|   |               |               +:SIGN-----? returns <num value>---+
|   |               |               |
|   |               +:LONGitude---:DEGREes-----? returns <num value>---+
|   |               +:MAJor-----:ORientation---? returns <num value>---+
|   |               +:SMAJor-----:UNCertainty---? returns <num value>---+
|   |               +:SMINor-----:UNCertainty---? returns <num value>---+
|   |               +:TYPe-----? returns <num value>---+
|   |               +:UCODE-----? returns <num value>---+
|   |               |
|   +:RFRame-----? returns <num value>---+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

CALL:PPRocedure:PMEasurement:PREsponse:MINformation

```
CALL---:PPRocedure---:PMEasurement---:PREsponse---:MINformation---+>
|
+-----+
|
+---:INCLuded-----? returns 1|0---+
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

```

CALL---:PPRocedure---:PMEasurement---:PRESponse---:MINformation--+
|
+-----+
|
+---:SET[1-3]---+:BTS-----+:BSICode-----? returns 10x<num value>--+
|
|           +:CARRier-----? returns 10x<num value>--+
|           +:CIDentity-----? returns 10x<num value>--+
|           +:CITYpe-----? returns 10x<num value>--+
|           +:LACode-----? returns 10x<num value>--+
|           +:MEASurements---+:NUMBer-----? returns 10x<num value>--+
|           |           +:SDEVIation---? returns 10x<num value>--+
|           |
|           +:MOFFset-----? returns 10x<num value>--+
|           +:NIPResent-----? returns 10x<num value>--+
|           +:NUMBer-----? returns <num value>--+
|           +:OTDifference-----? returns 10x<num value>--+
|           +:RINDEX-----? returns 10x<num value>--+
|           +:SIINDEX-----? returns 10x<num value>--+
|           +:TSLot-----? returns 10x<num value>--+
|
|           +:FNuMber-----? returns <num value>--+
+:+:MREference---+:INCLuded-----? returns 1|0--+
|           +:NUMBer-----? returns <num value>--+
|           +:QUALity-----? returns <num value>--+
|
|           +:SRESolution-----? returns <num value>--+
+:+:TACorrection--+-----? returns <num value>--+
|           +:INCLuded-----? returns 1|0--+
|
|           +:TSLot-----? returns <num value>--+

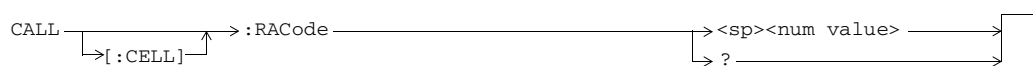
```

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

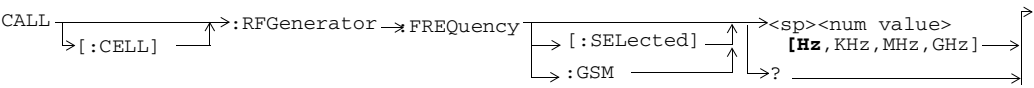
CALL:PPRocedure:PMEasurement:PRESpense:MSETs

These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

```
CALL---:PPRocedure---:PMEasurement---:PRESponse---+>
|
+-----+
|
+++:RIDentity---+:BSICode-----? returns 3x<num value>--+
+++:CARRier-----? returns 3x<num value>--+
+++:CIDentity-----? returns 3x<num value>--+
+++:CITYpe-----? returns 3x<num value>--+
+++:INCLuded-----? returns 1|0--+
+++:LACode-----? returns 3x<num value>--+
+++:RINdex-----? returns 3x<num value>--+
+++:SIINdex-----? returns 3x<num value>--+
```

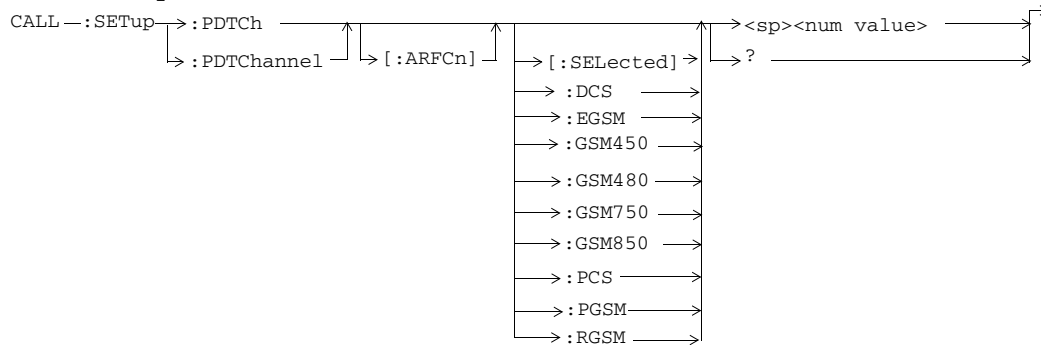
CALL:RACode

CALL:RFGenerator

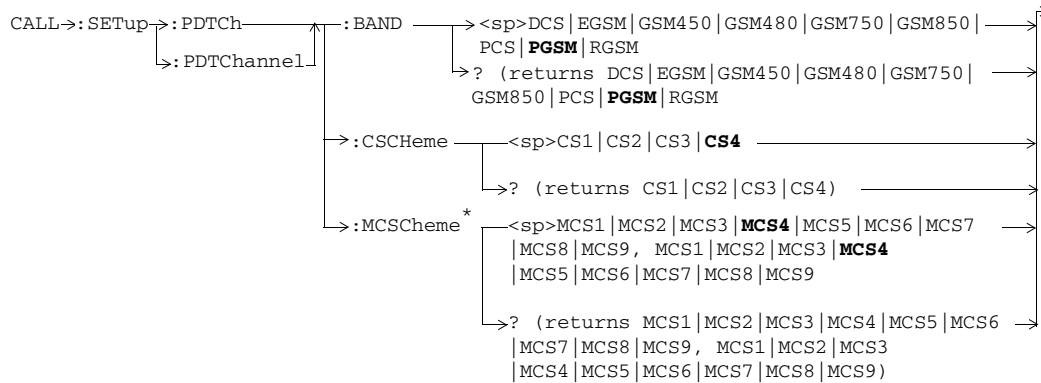


GPB Syntax for E1968A, E6701C and E6704A

CALL:SETup



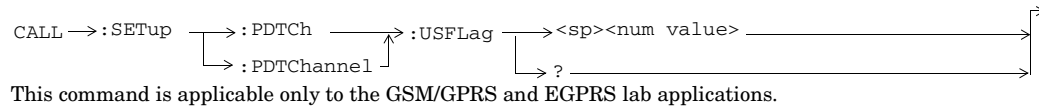
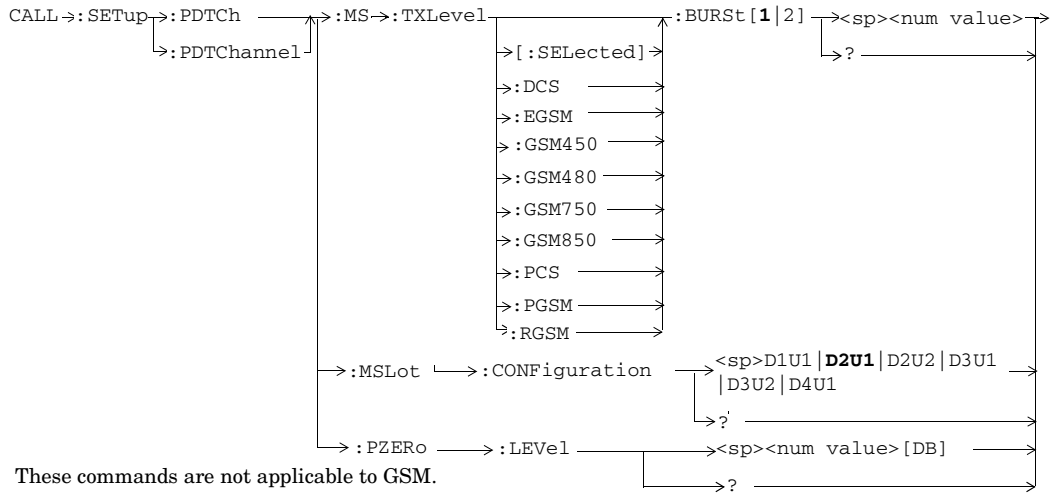
These commands are not applicable to GSM.



These commands are not applicable to GSM.

* This command is only applicable to the EGPRS lab application

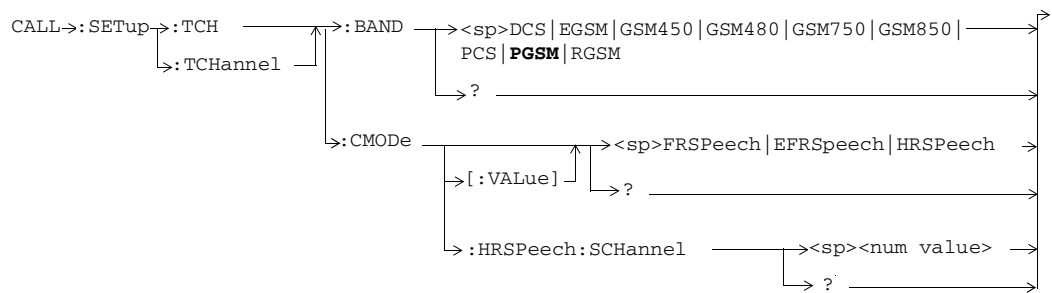
GPIB Syntax for E1968A, E6701C and E6704A



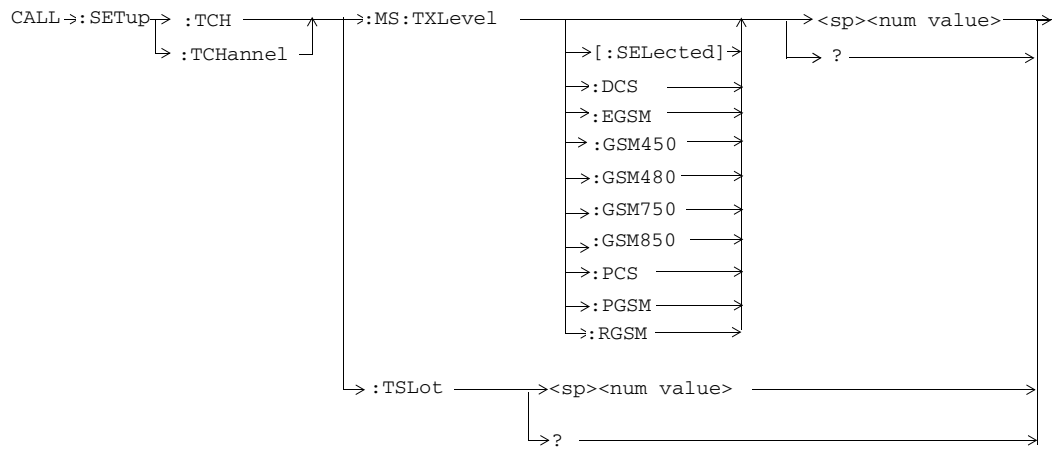
```

sequenceDiagram
    participant CALL as CALL
    participant TCH as TCH
    participant TChannel as TChannel
    participant ARFCn as [ :ARFCn ]
    participant SSelected as [ :SElected ]
    participant DCS as :DCS
    participant EGSM as :EGSM
    participant GSM450 as :GSM450
    participant GSM480 as :GSM480
    participant GSM750 as :GSM750
    participant GSM850 as :GSM850
    participant PCS as :PCS
    participant PGSM as :PGSM
    participant RGSM as :RGSM
    participant Sp as <sp><num value>
    participant Q as ?

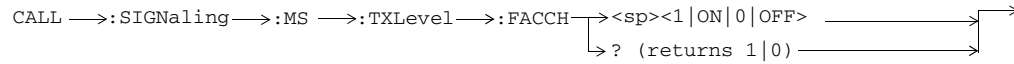
    CALL->>TCH: :SETup
    TCH->>TChannel: 
    TChannel->>ARFCn: 
    ARFCn->>SSelected: 
    SSelected->>Q: 
    Q->>Sp: 
    Sp->>DCS: 
    DCS->>EGSM: 
    EGSM->>GSM450: 
    GSM450->>GSM480: 
    GSM480->>GSM750: 
    GSM750->>GSM850: 
    GSM850->>PCS: 
    PCS->>PGSM: 
    PGSM->>RGSM: 
    RGSM->>Q: 
    Q->>Sp: 
    Sp->>Q: 
    Q->>Q: 
    
```



GPB Syntax for E1968A, E6701C and E6704A



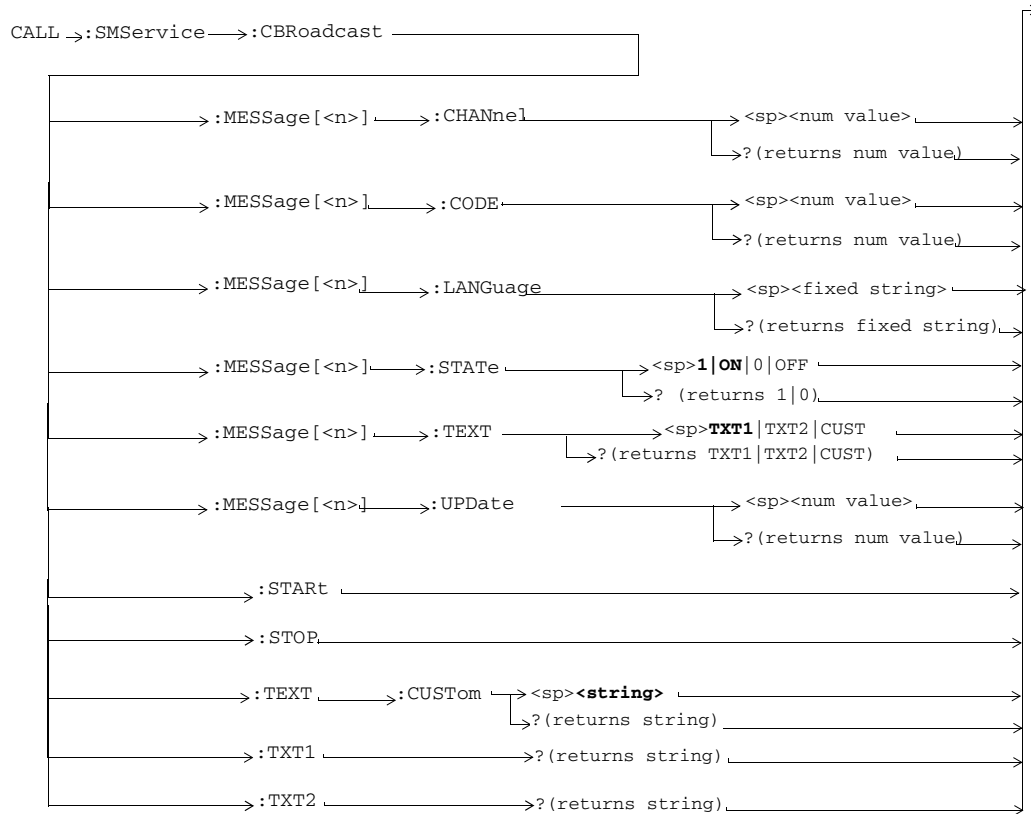
CALL:SIGNaling



This command is not applicable to GPRS.

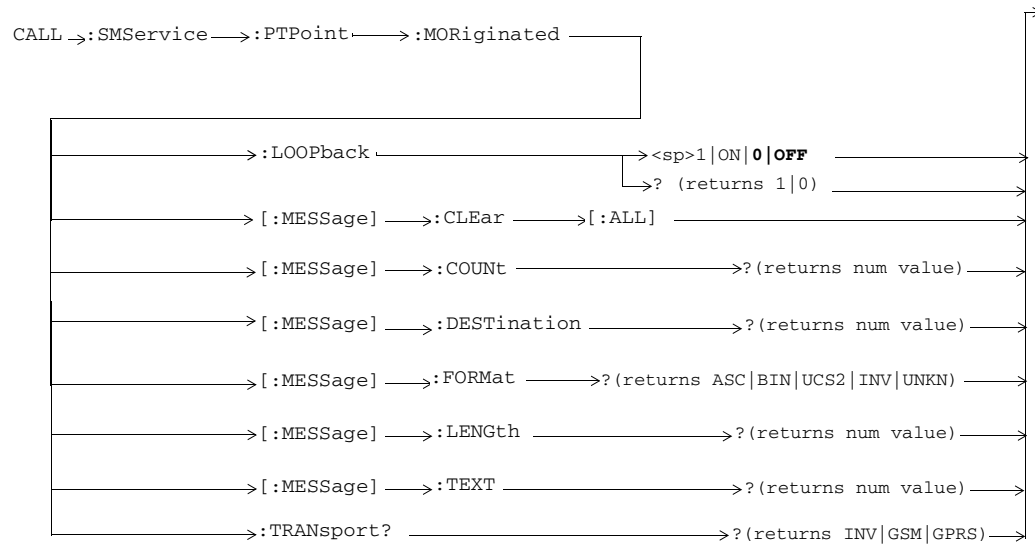
GPIB Syntax for E1968A, E6701C and E6704A

CALL:SMSERVICE



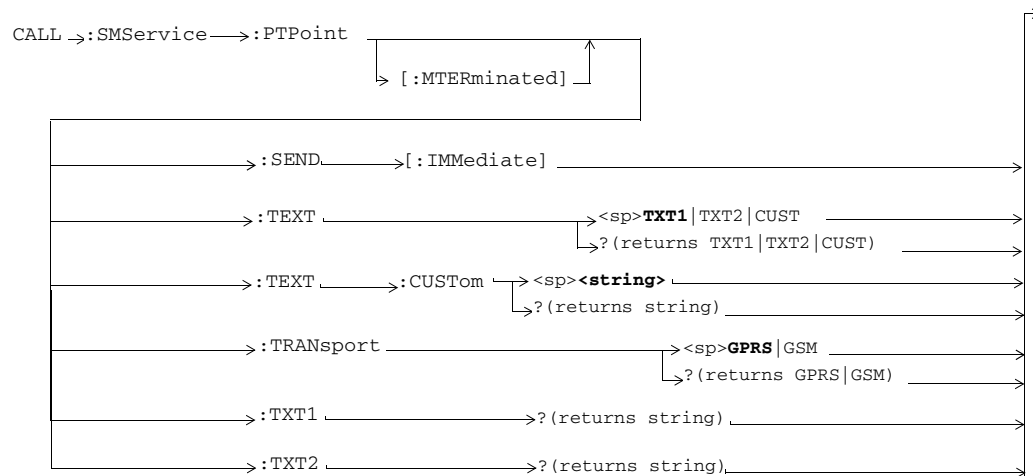
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A



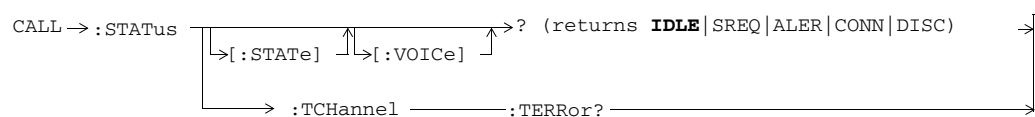
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

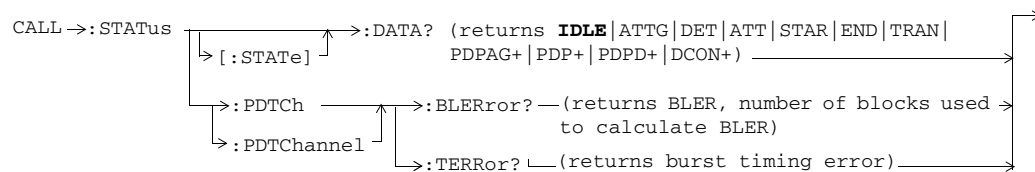


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

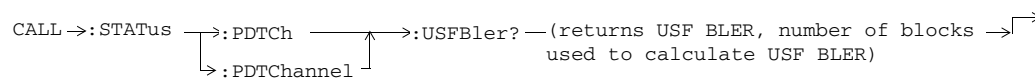
CALL:STATus



These commands are not applicable to GPRS.



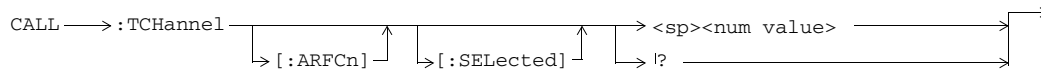
These commands are not applicable to GSM.
+Only applicable to the GSM/GPRS and EGPRS LAs.



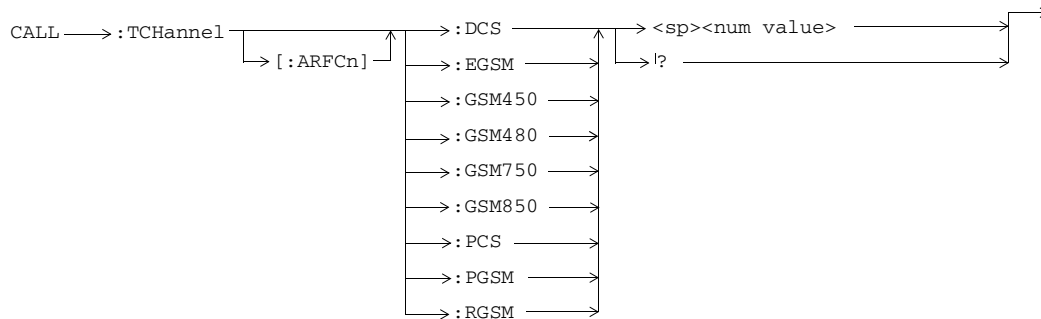
This command is applicable only to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

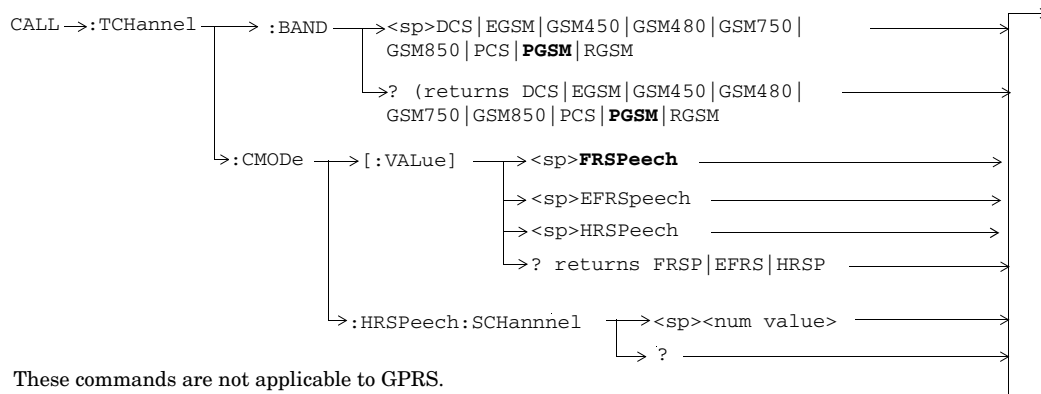
CALL:TCHannel



These commands are not applicable to GPRS.

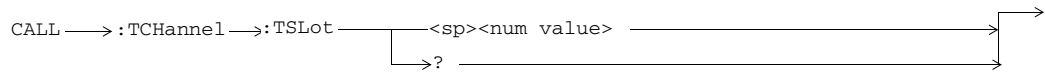
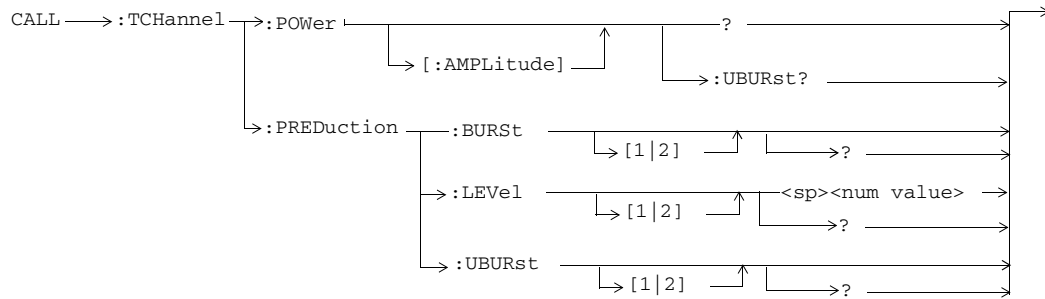
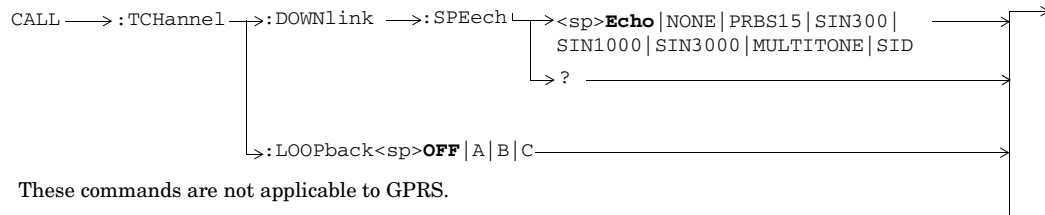


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A



These commands are not applicable to GPRS.

GPiB Syntax for E1968A, E6701C and E6704A

CALL:TRANsferring

CALL → :TRANsferring → ? (returns 1|0) →

↳ [:STATe]

This command is not applicable to GSM.

CALL:TRIGger

CALL → :TRIGger → [:ALL] → :STATe → :OFF →

↳ [:OUTPut]

This command is only applicable to the GSM/GPRS and EGPRS lab applications.

CALL → :TRIGger → [:OUTPut]

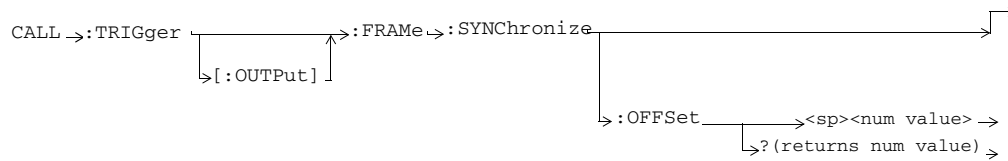
→ :FRAMe → :STATe → <sp>1|ON|**0**|OFF → ? (returns 1|0) →

→ :NIDLe → :STATe → <sp>1|ON|**0**|OFF → ? (returns 1|0) →

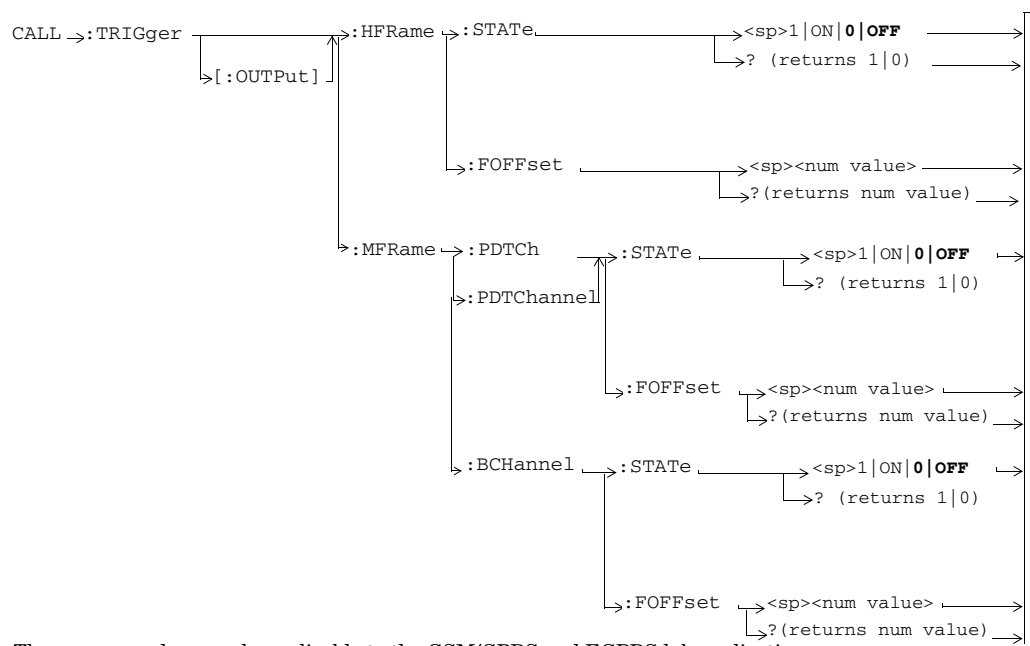
→ :TSlot → <sp><num value> → ? (returns num value) →

→ :SYMBol → <sp><num value> → ? (returns num value) →

GPIB Syntax for E1968A, E6701C and E6704A

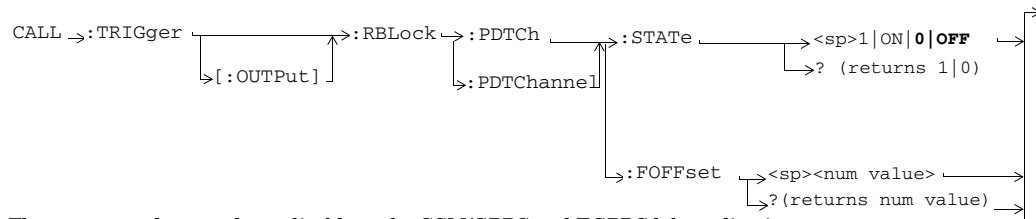


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

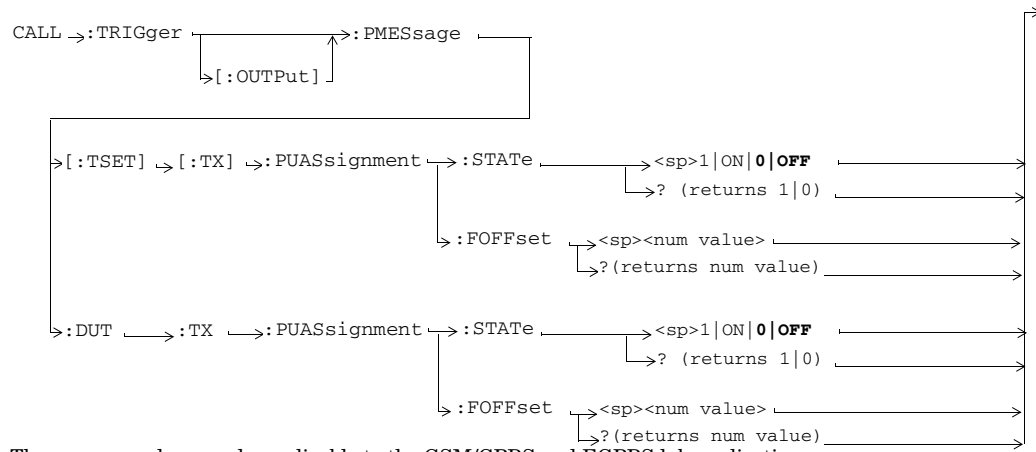


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

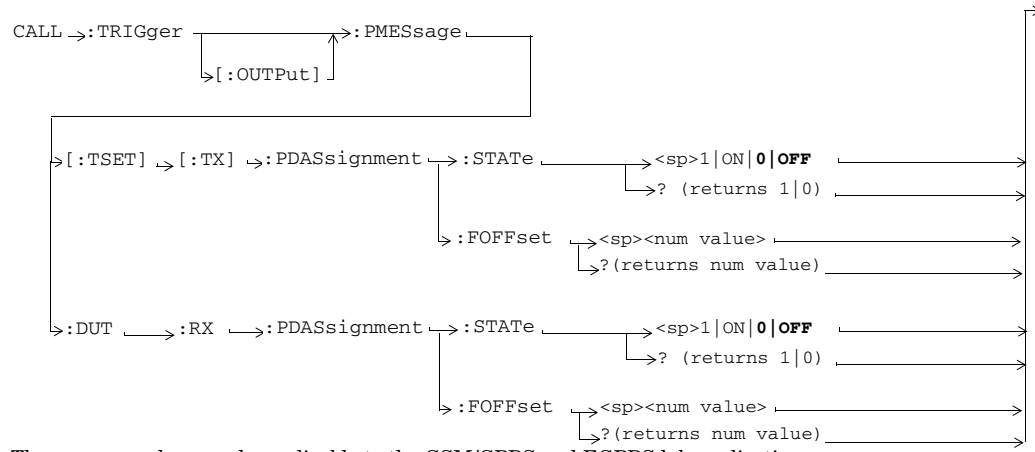


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.



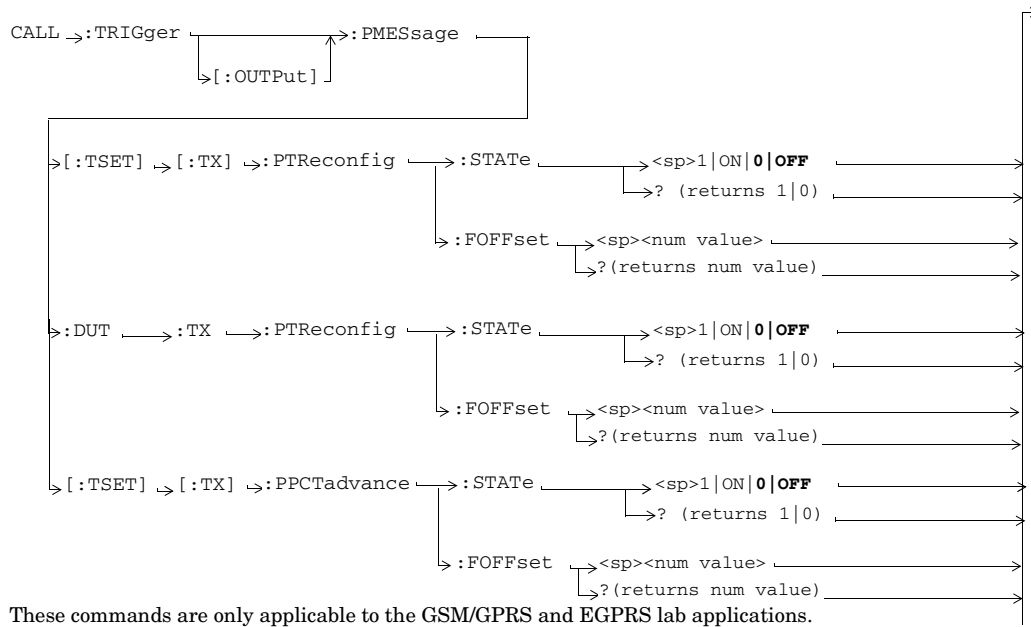
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPiB Syntax for E1968A, E6701C and E6704A

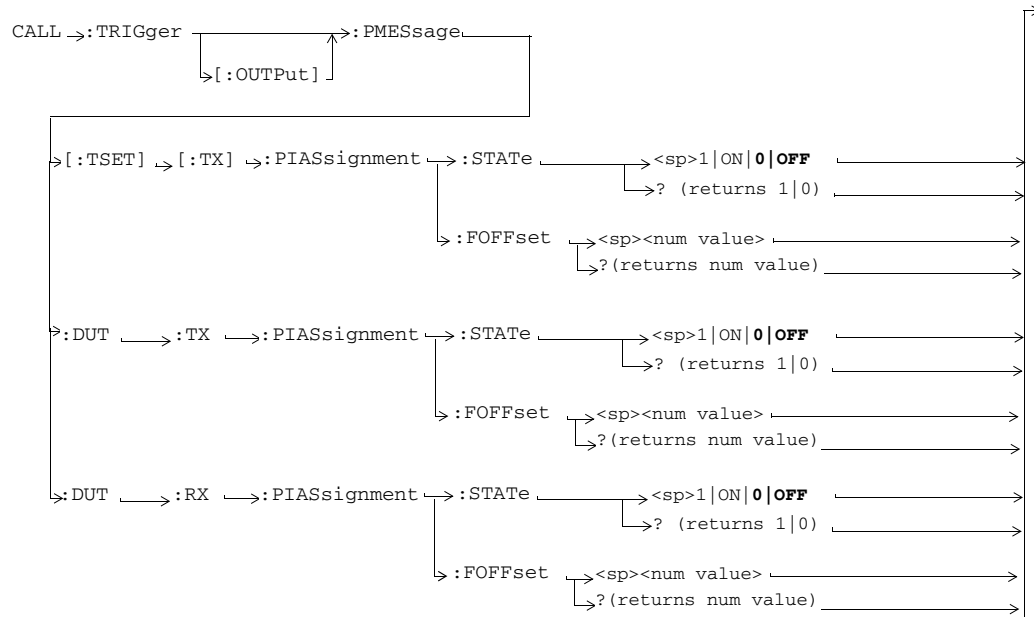


These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A

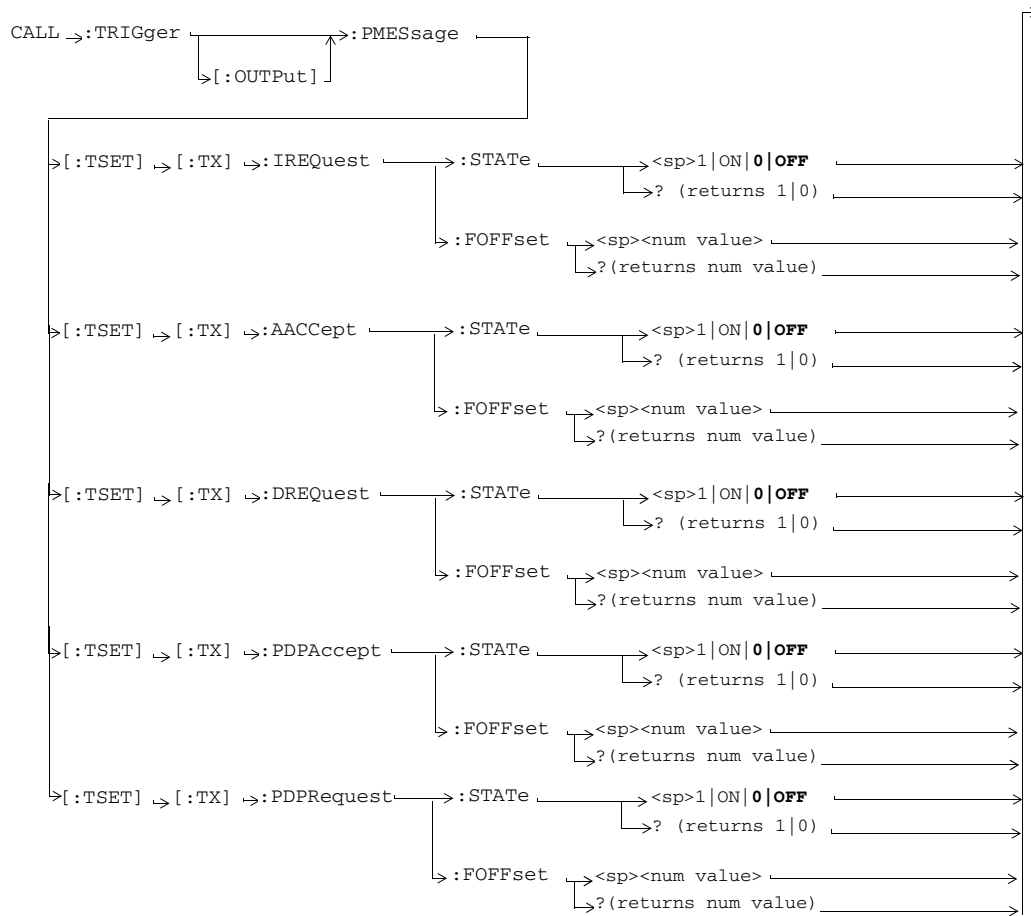


GPIB Syntax for E1968A, E6701C and E6704A



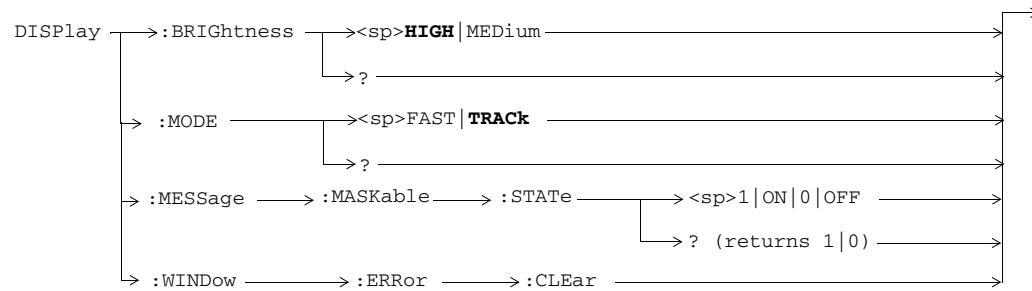
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

GPIB Syntax for E1968A, E6701C and E6704A



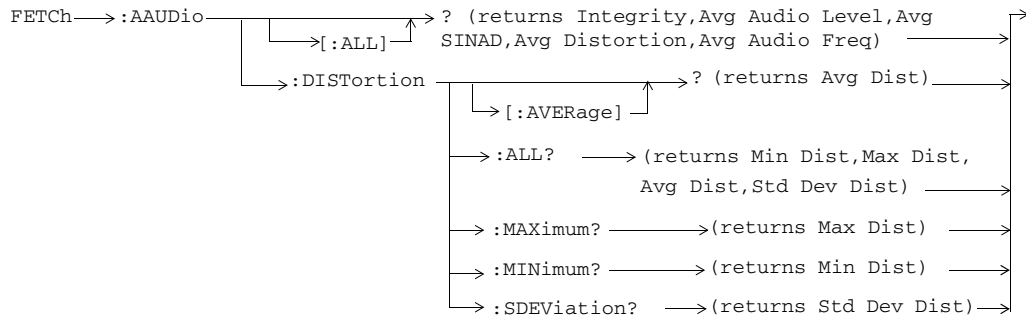
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

DISPlay

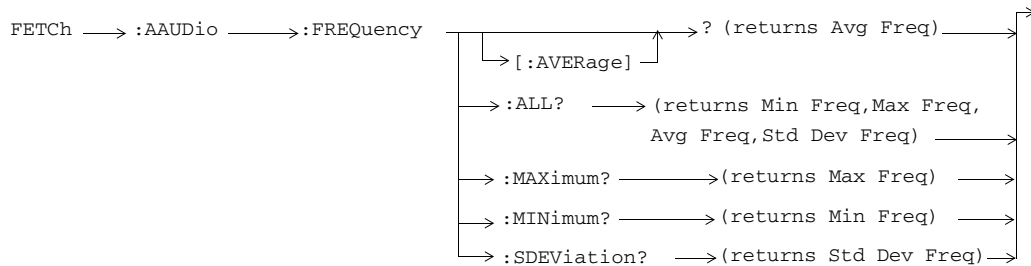


GPIO Syntax for E1968A, E6701C and E6704A

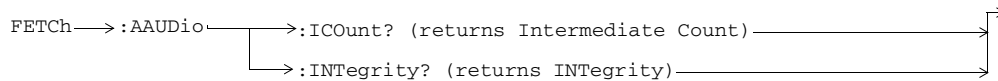
FEtCh:AAUDio



These commands are not applicable to GPRS.

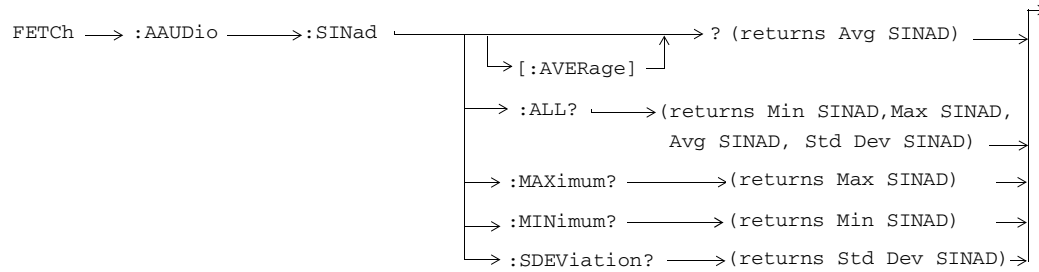


These commands are not applicable to GPRS.

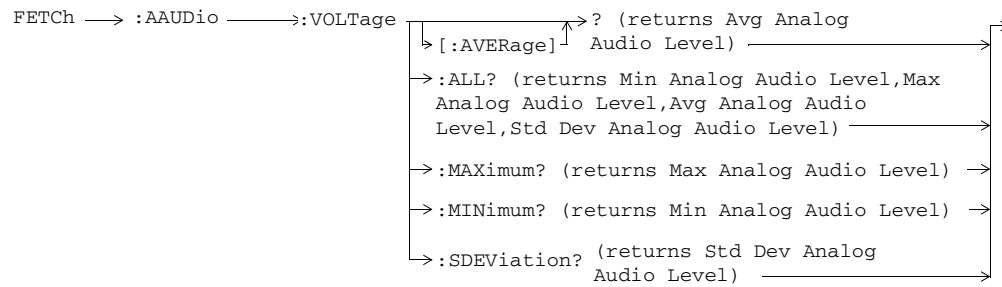


These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A

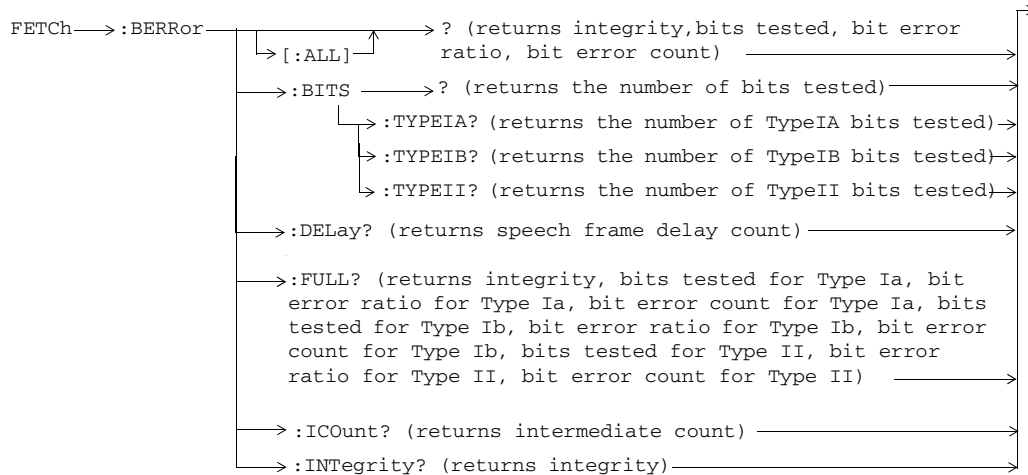


These commands are not applicable to GPRS.

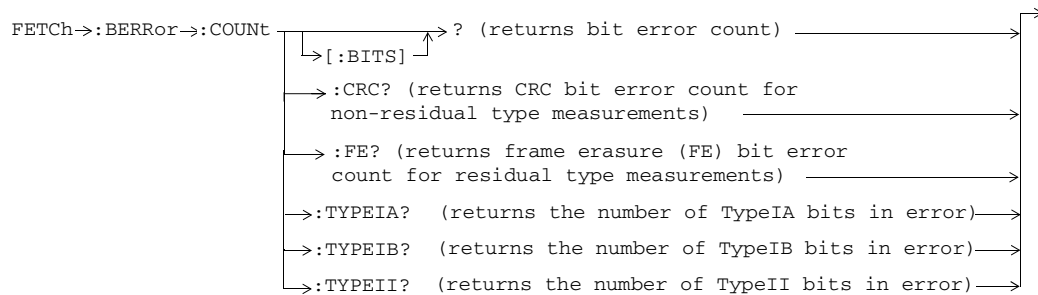


These commands are not applicable to GPRS.

FEtCh:BERRor

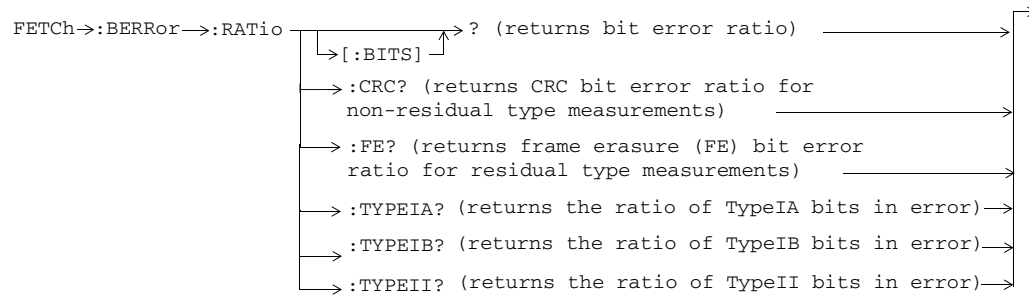


These commands are not applicable to GPRS or EGPRS.



These commands are not applicable to GPRS or EGPRS.

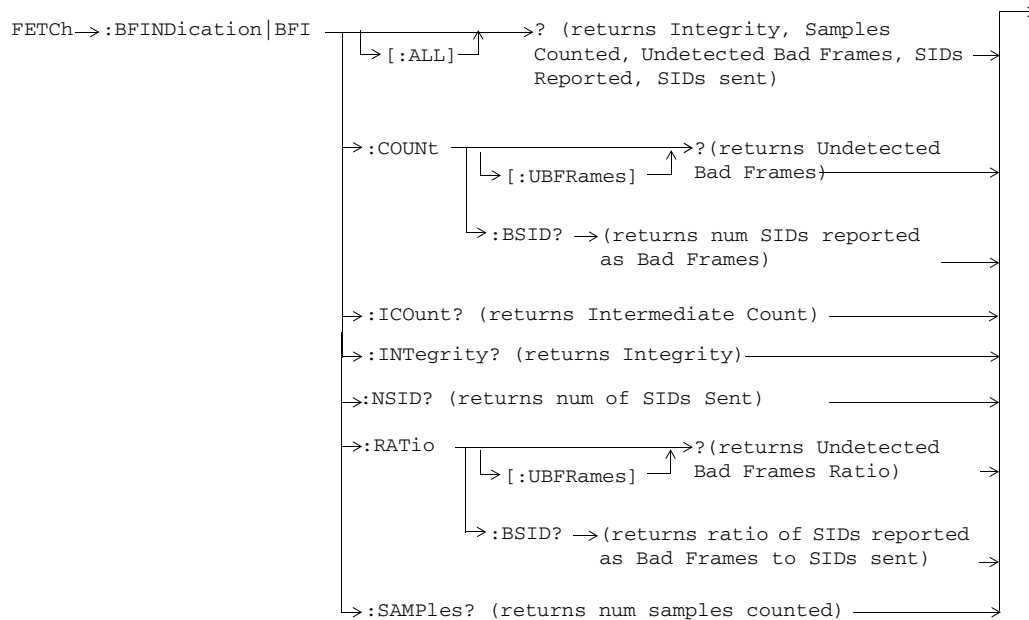
GPB Syntax for E1968A, E6701C and E6704A



These commands are not applicable to GPRS or EGPRS.

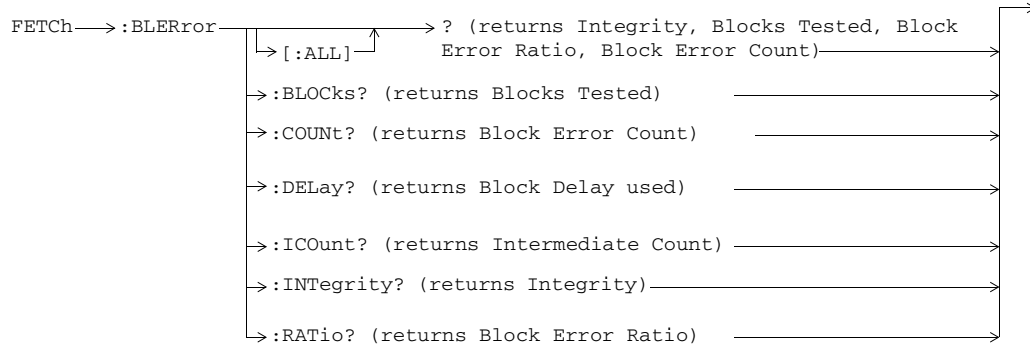
GPIB Syntax for E1968A, E6701C and E6704A

FETCH:<BFI>



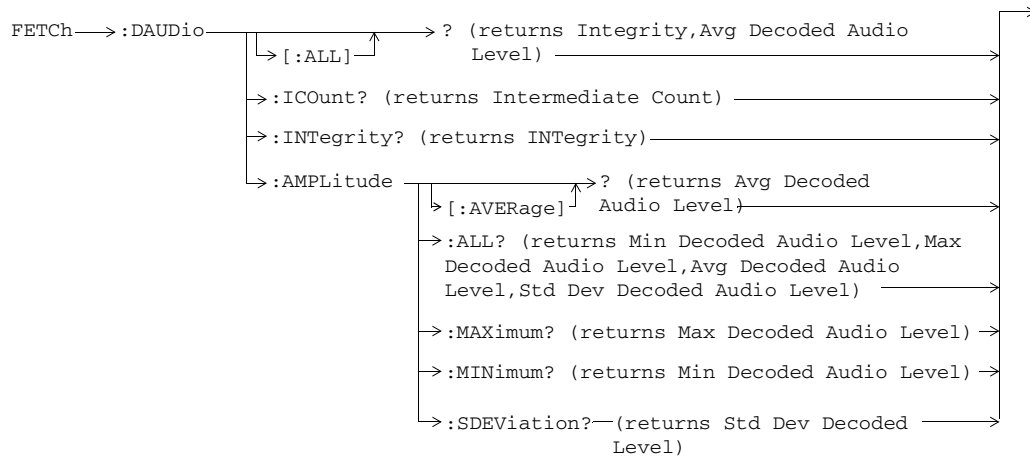
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

FEtCh:BLERror



These commands are not applicable to GSM.

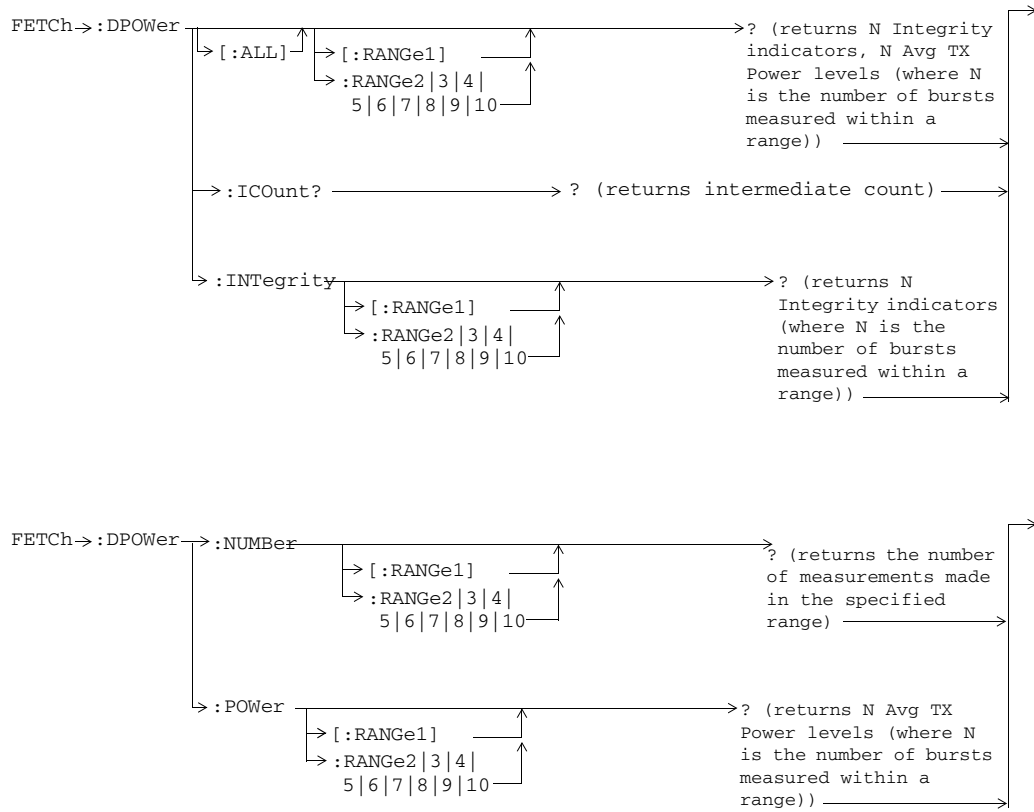
FEtCh:DAUDio



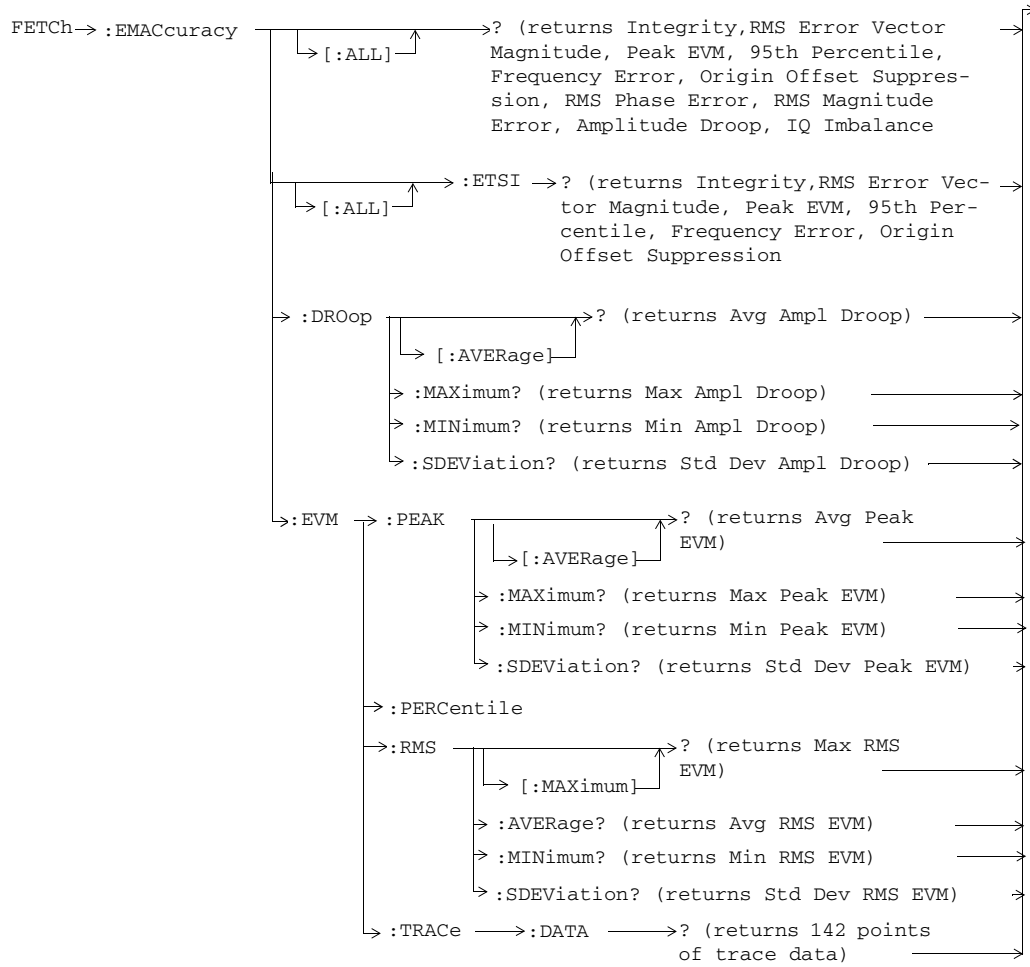
These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A

FEtCh:DPOWer

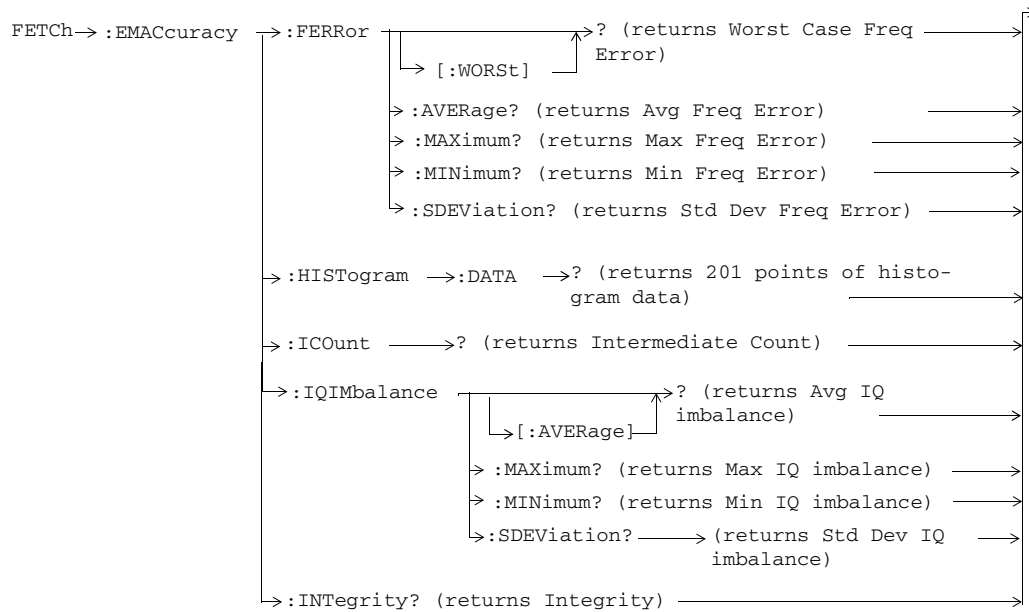


FEtCh:EMACcuracy



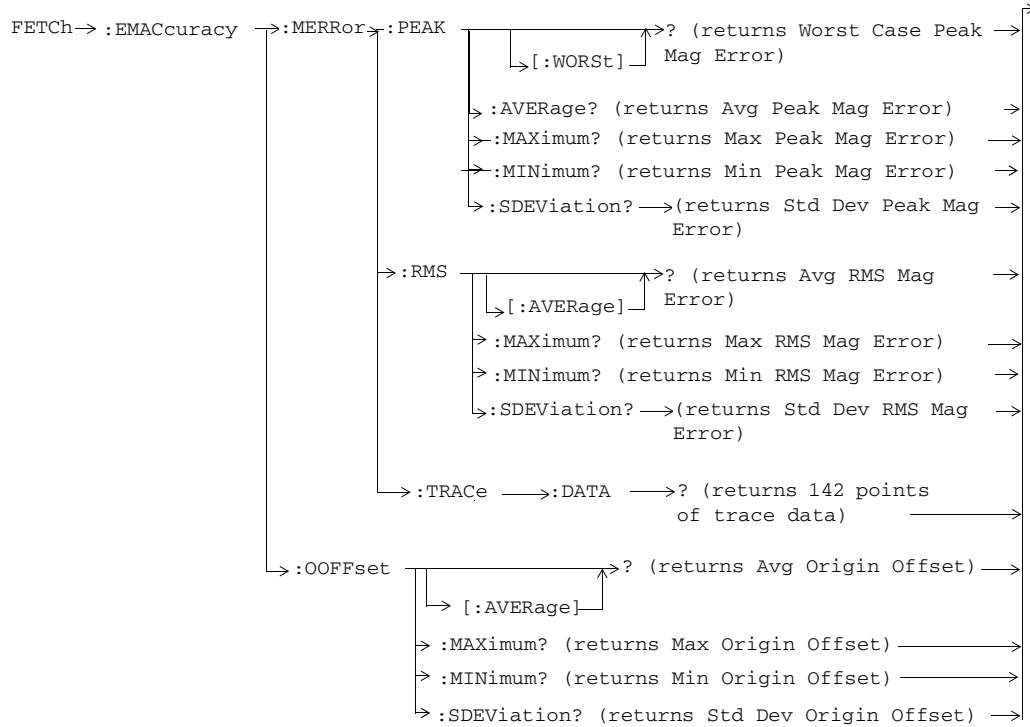
These commands are only applicable to EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A



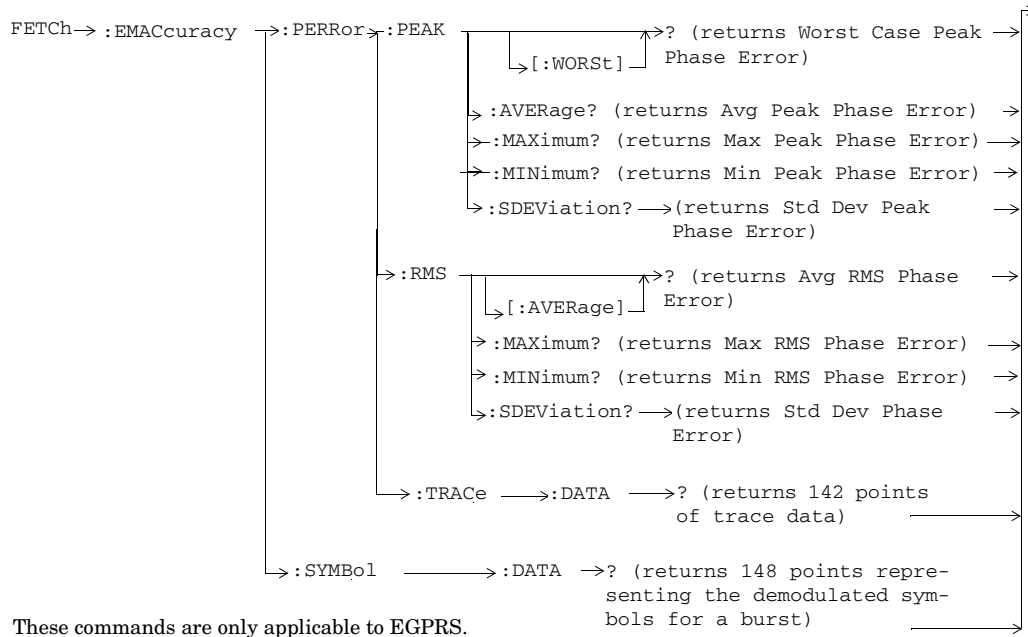
These commands are only applicable to EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A

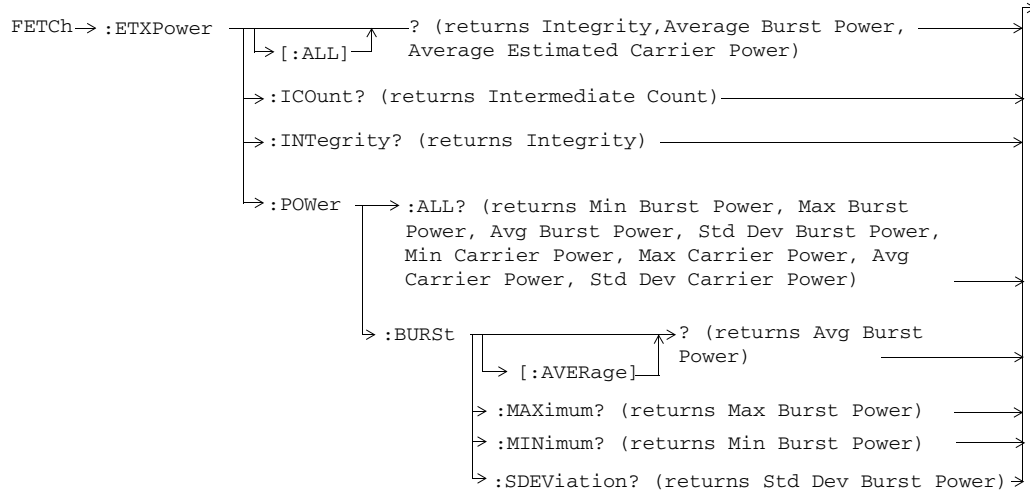


These commands are only applicable to EGPRS.

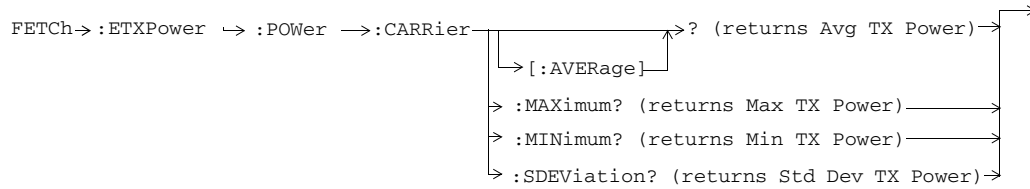
GPIB Syntax for E1968A, E6701C and E6704A



FETCH:ETXPower



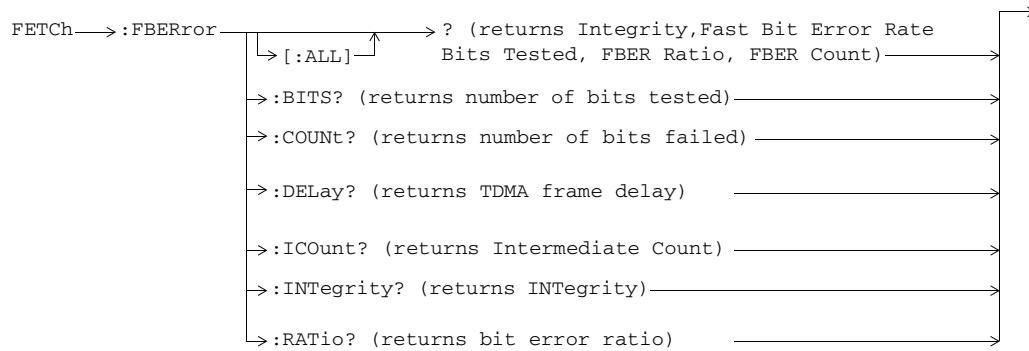
These commands are only applicable to EGPRS.



These commands are only applicable to EGPRS.

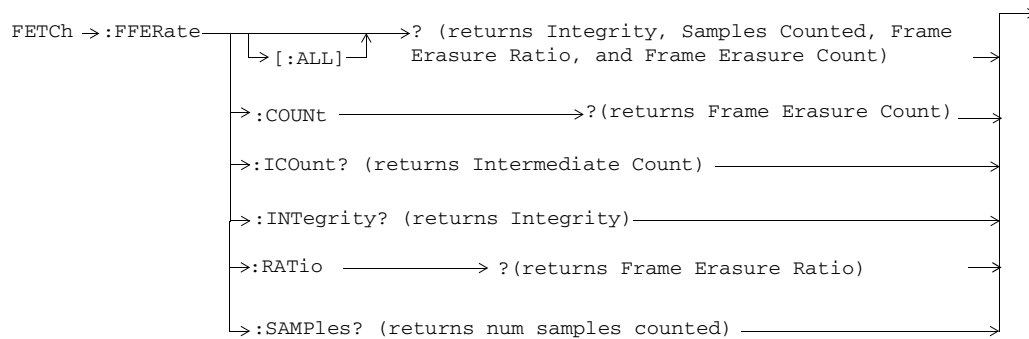
GPiB Syntax for E1968A, E6701C and E6704A

FEtCh:FBERror



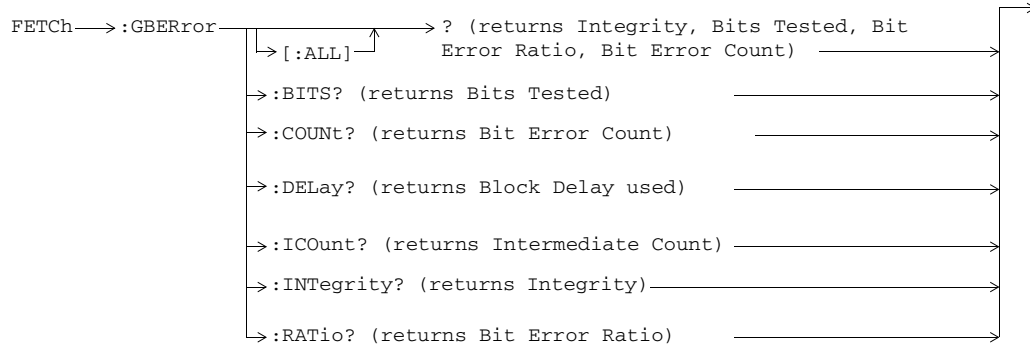
These commands are not applicable to GPRS.

FEtCh:FFERate



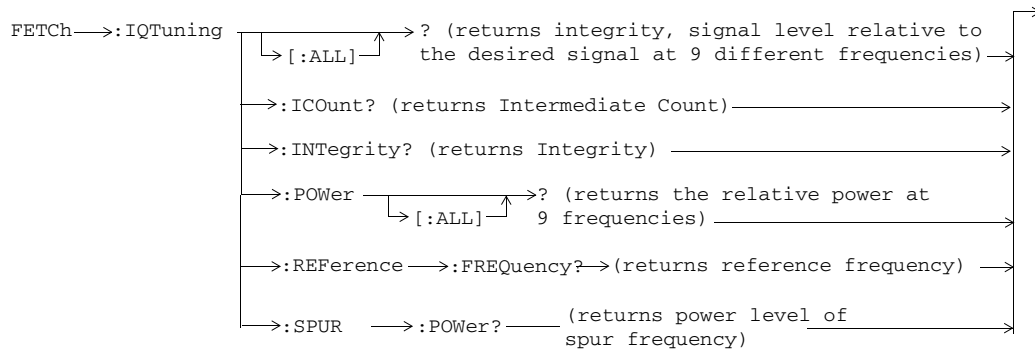
These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

FEtCh:GBERror



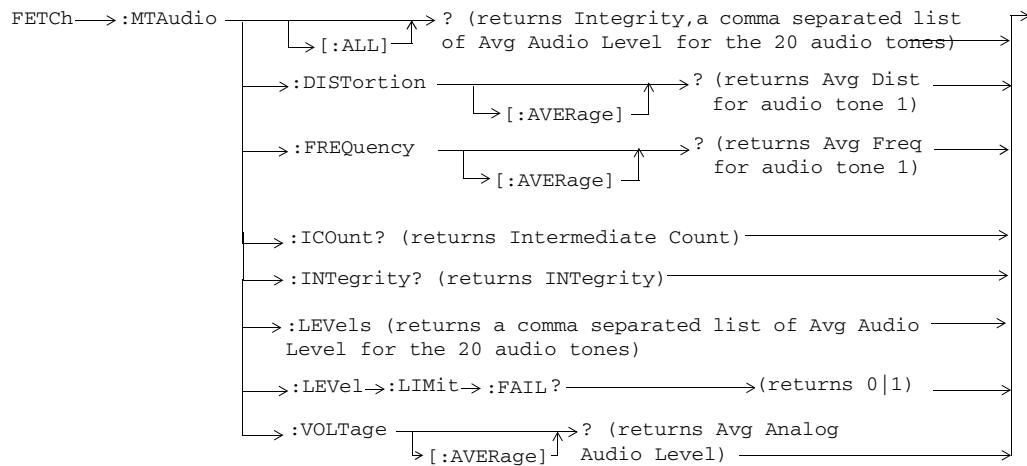
These commands are not applicable to GSM.

FEtCh:IQTuning



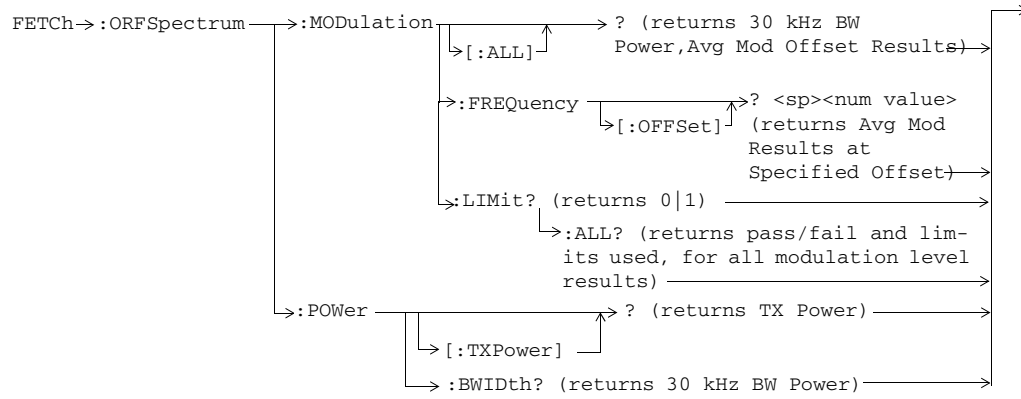
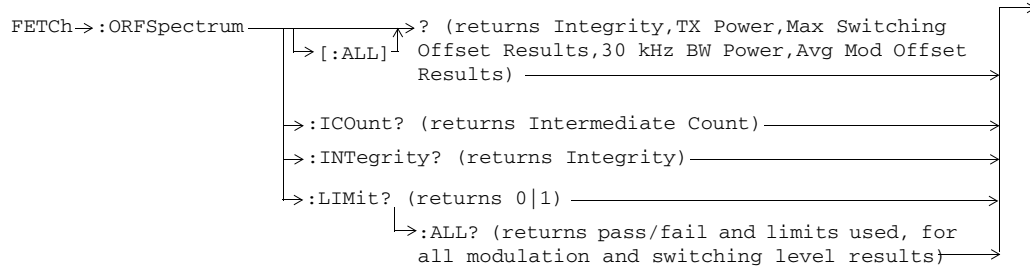
GPIB Syntax for E1968A, E6701C and E6704A

FETCH:MTAudio

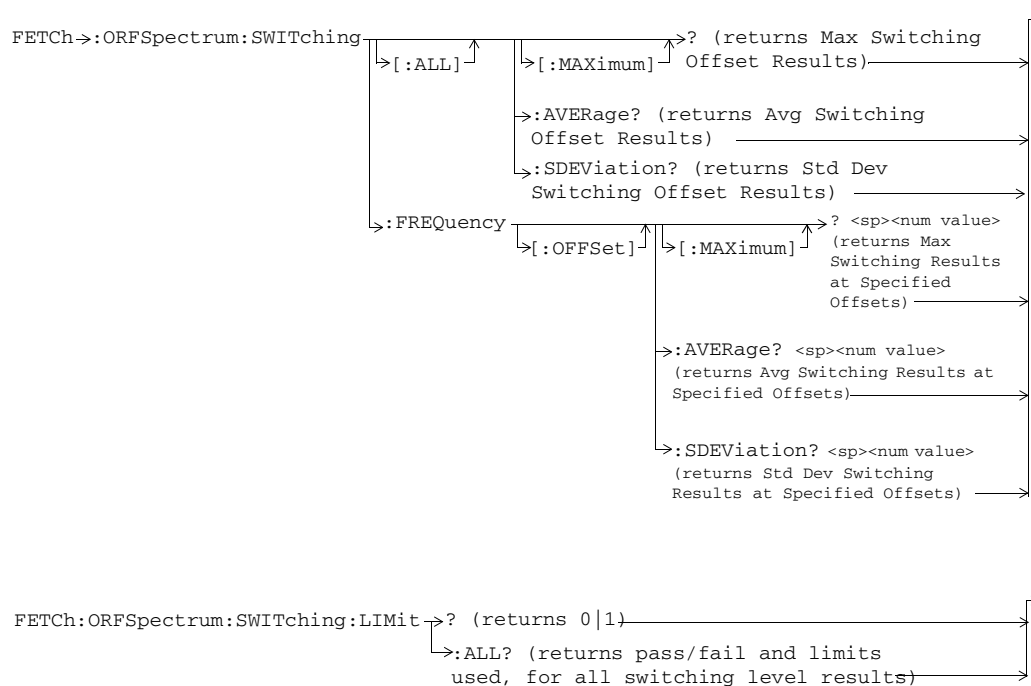


These commands are not applicable to GPRS or EGPRS.

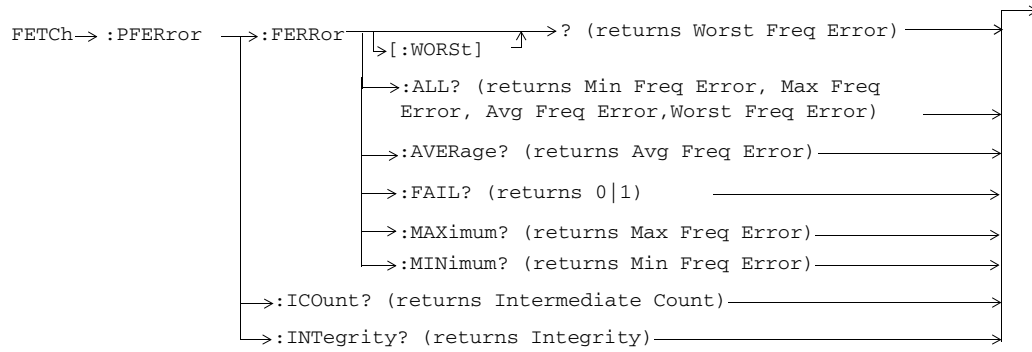
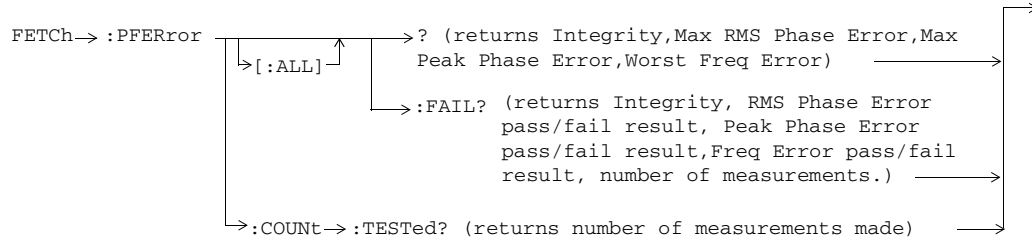
FEtCh:ORFSpectrum



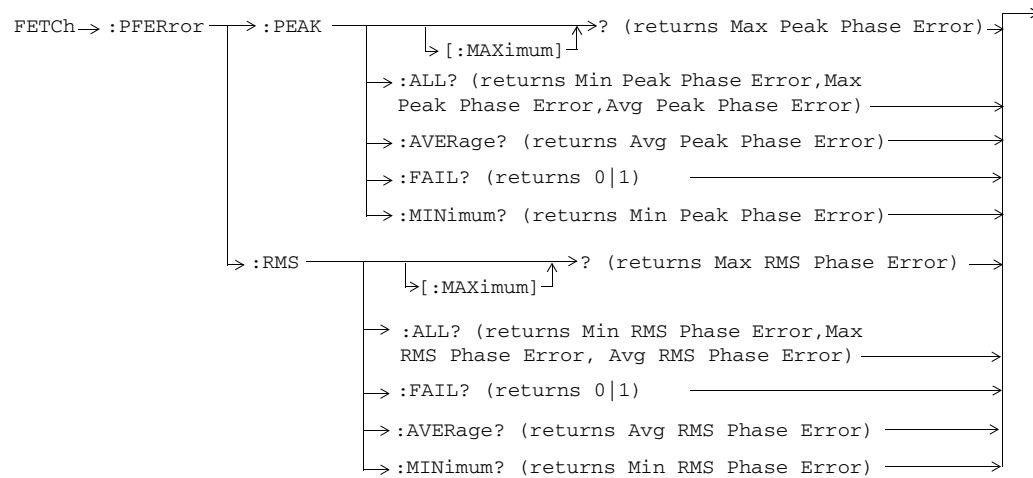
GPIB Syntax for E1968A, E6701C and E6704A



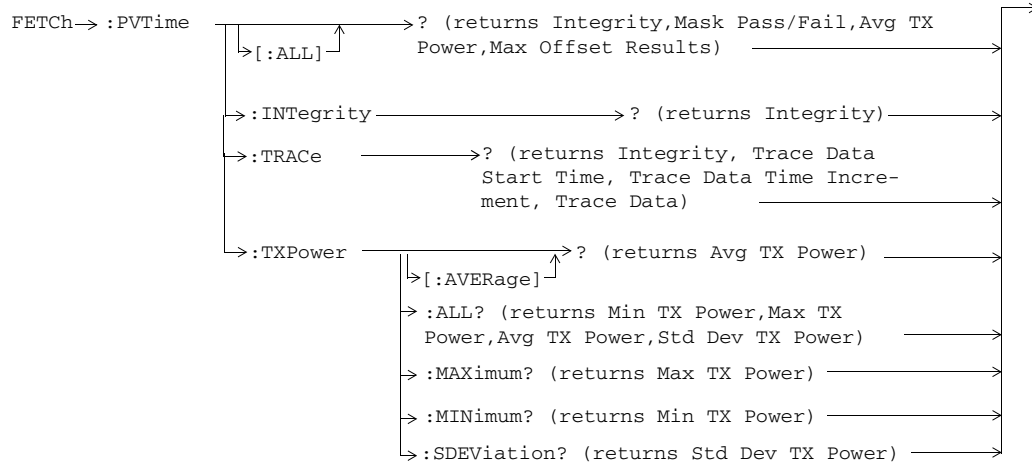
FEtCh:PFERror



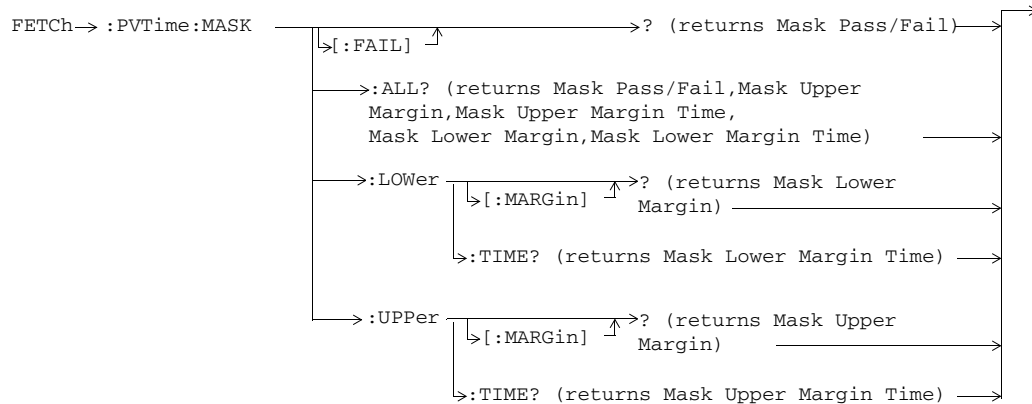
GPIB Syntax for E1968A, E6701C and E6704A



FEtCh:PvTime

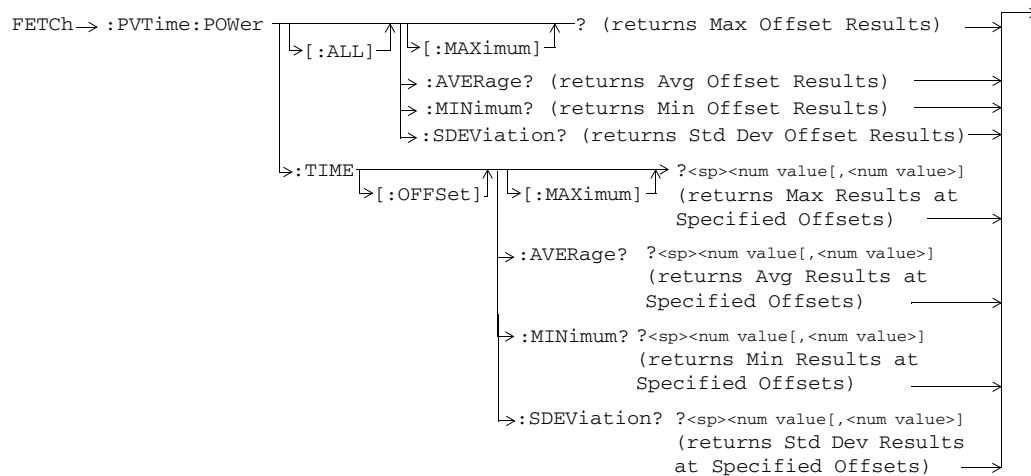


These commands are not applicable to GPRS or EGPRS.

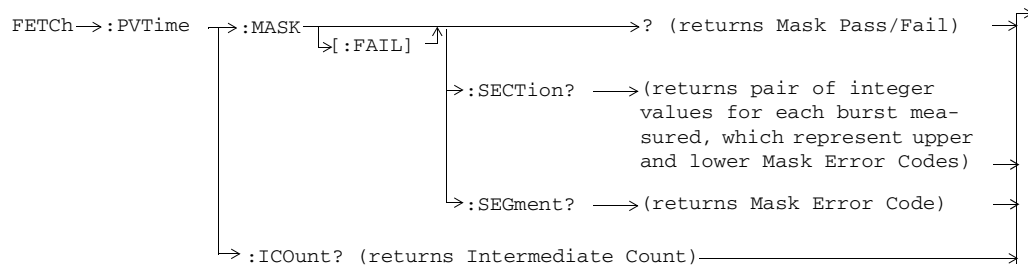


These commands are not applicable to GPRS or EGPRS.

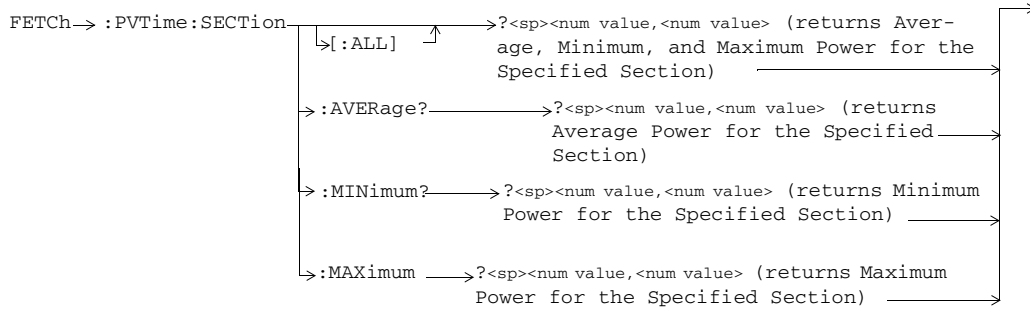
GPIB Syntax for E1968A, E6701C and E6704A



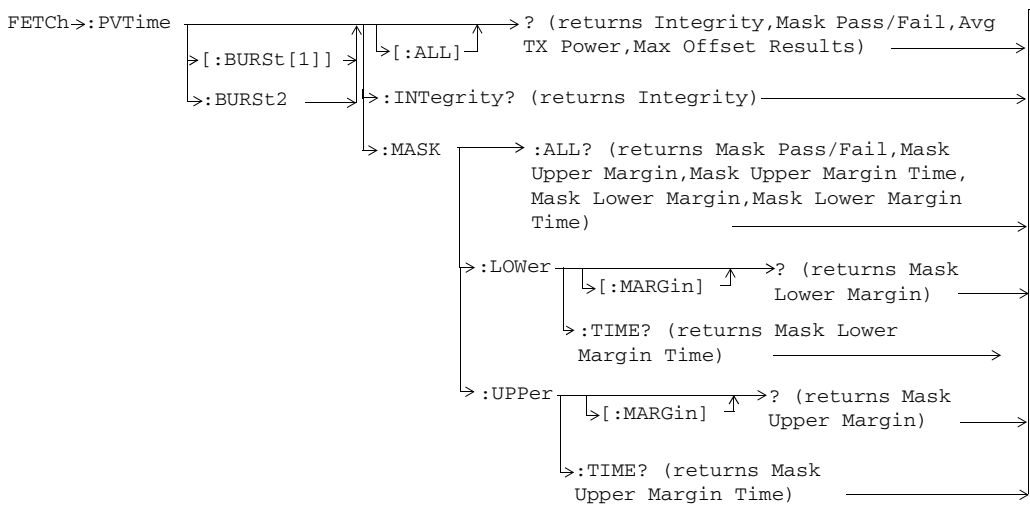
These commands are not applicable to GPRS or EGPRS.



GPiB Syntax for E1968A, E6701C and E6704A

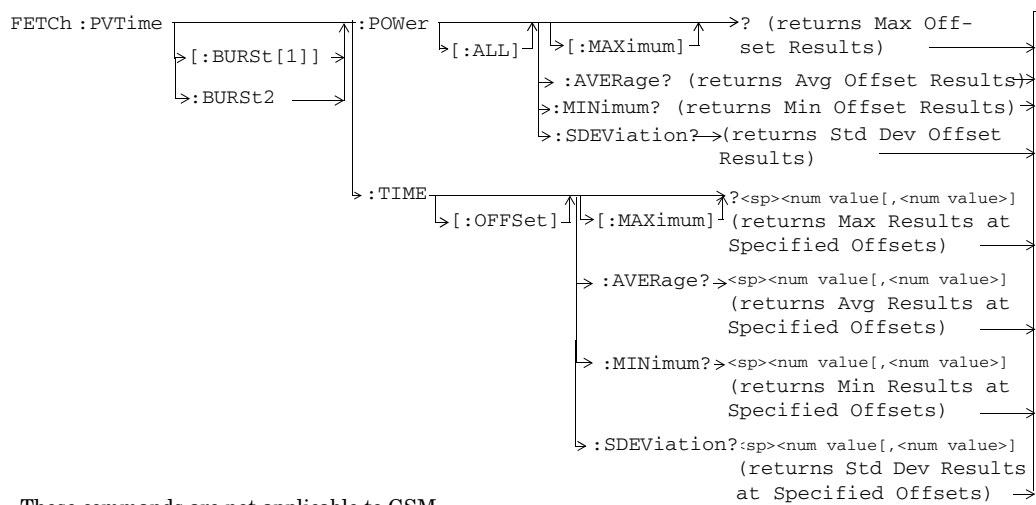


These commands are not applicable to GPRS or EGPRS.

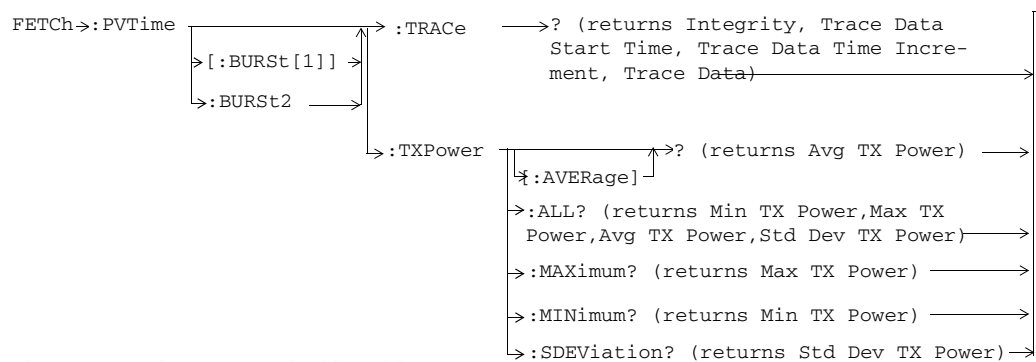


These commands are not applicable to GSM.

GPiB Syntax for E1968A, E6701C and E6704A

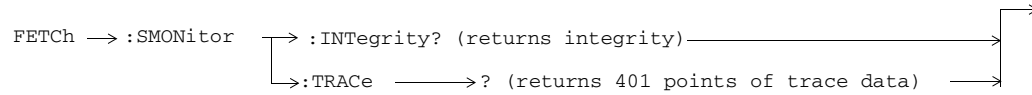


These commands are not applicable to GSM.

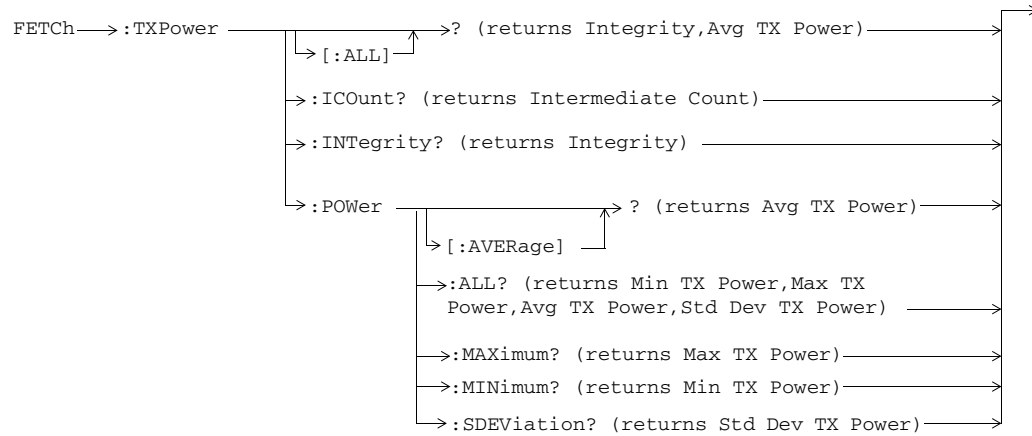


These commands are not applicable to GSM.

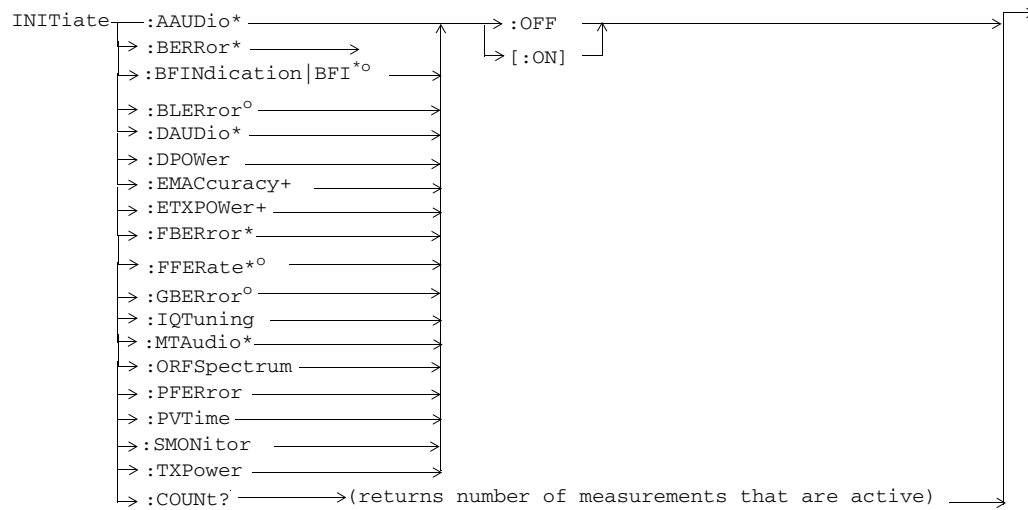
FEtCh:SMONitor



FEtCh:TXPower



INITiate

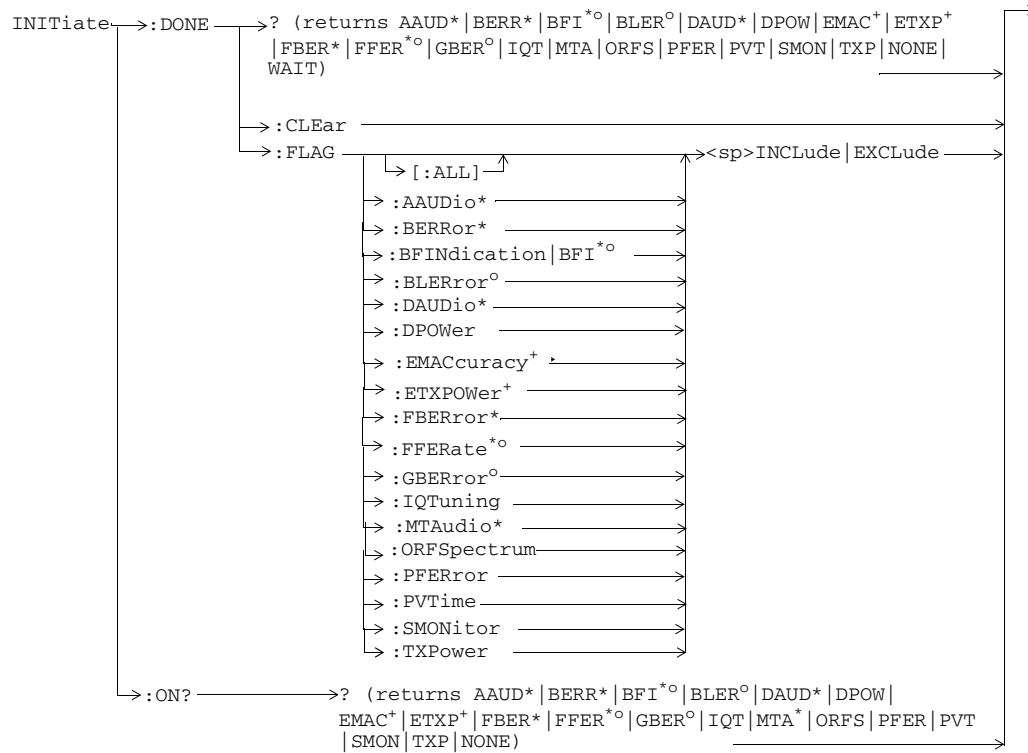


* Not applicable to the GPRS test application

° Not applicable to the GSM test application

+ Only applicable to EGPRS

GPiB Syntax for E1968A, E6701C and E6704A



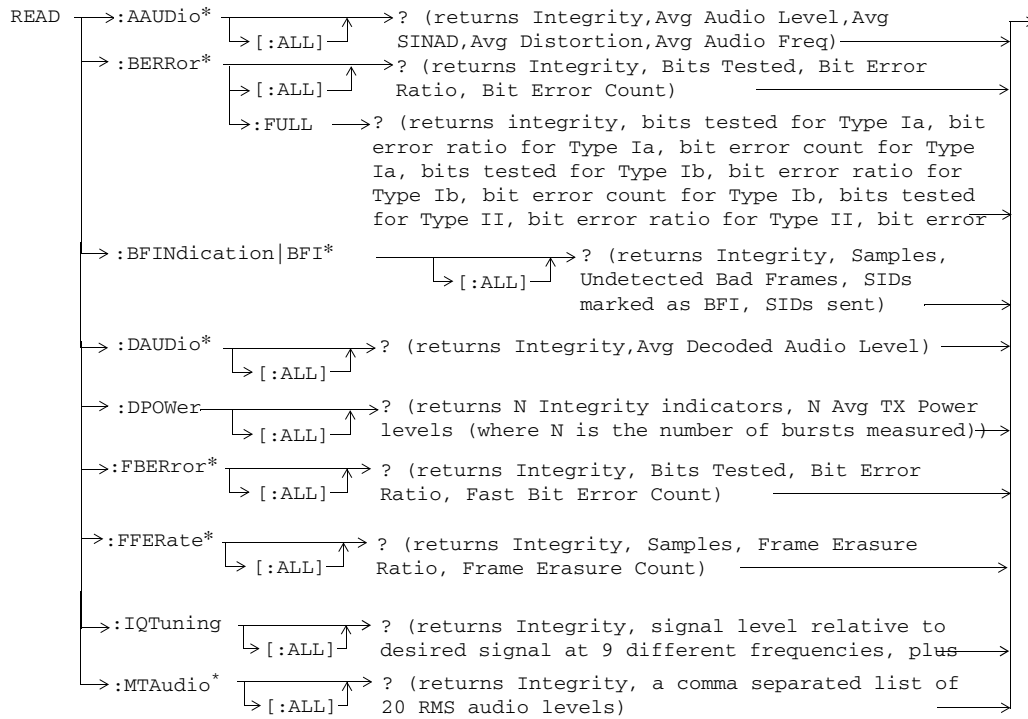
* Not applicable to the GPRS test application

° Not applicable to the GSM test application

+ Only applicable to EGPRS

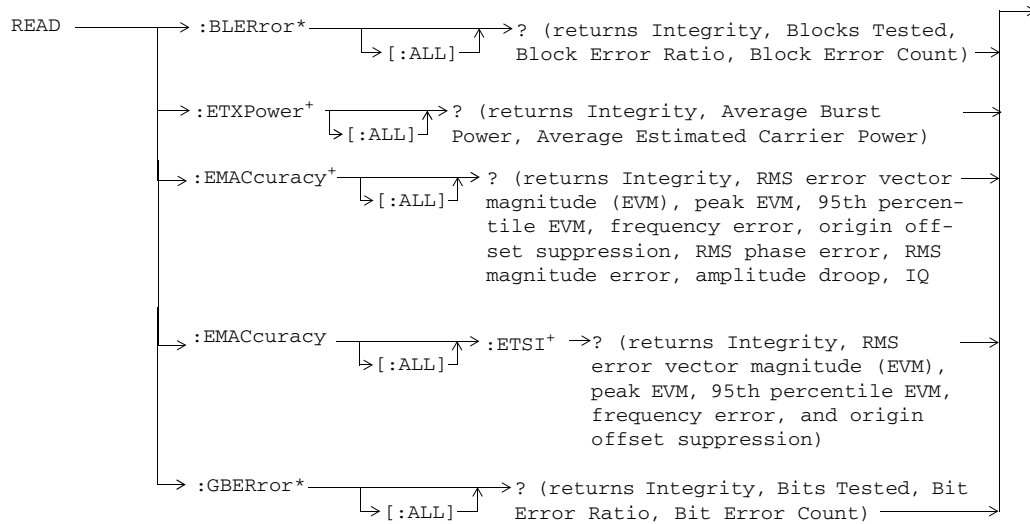
GPB Syntax for E1968A, E6701C and E6704A

READ



* These commands are not applicable to GPRS.

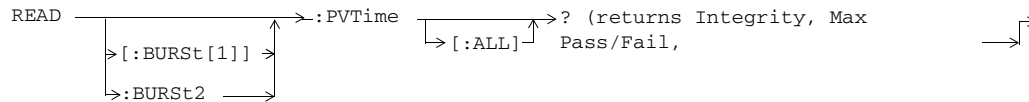
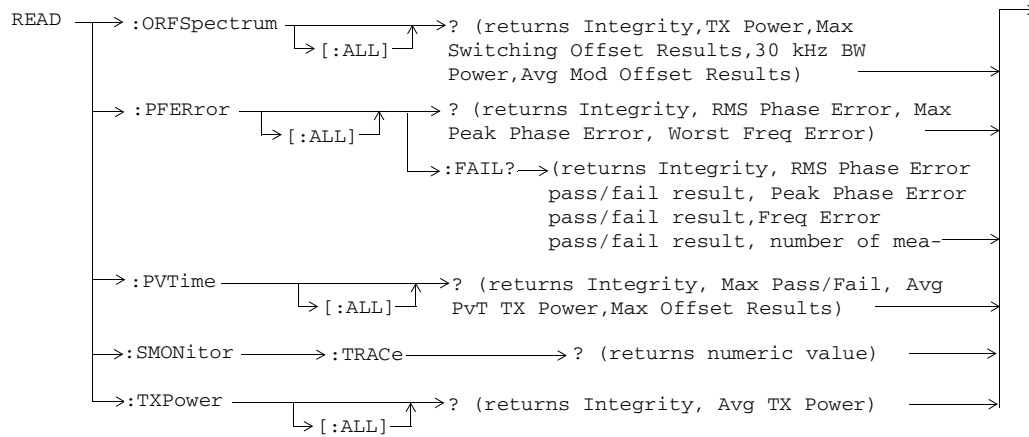
GPIB Syntax for E1968A, E6701C and E6704A



* These commands are not applicable to GSM.

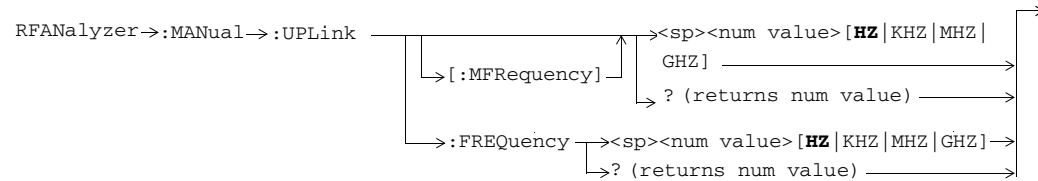
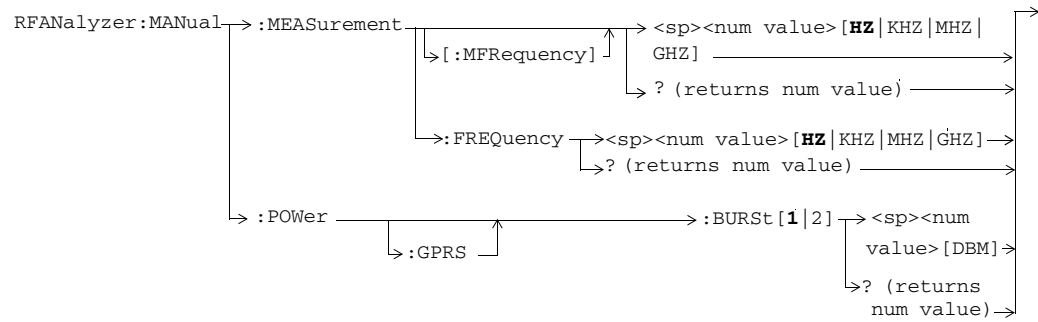
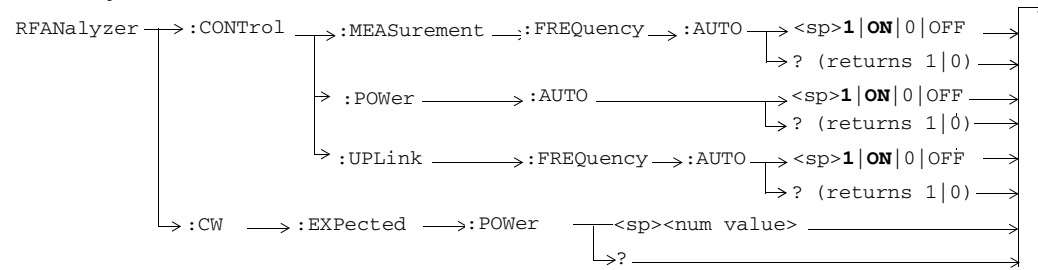
⁺ This command is only applicable to EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A



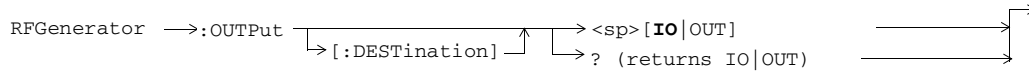
This command is not applicable to GSM.

RFANalyzer

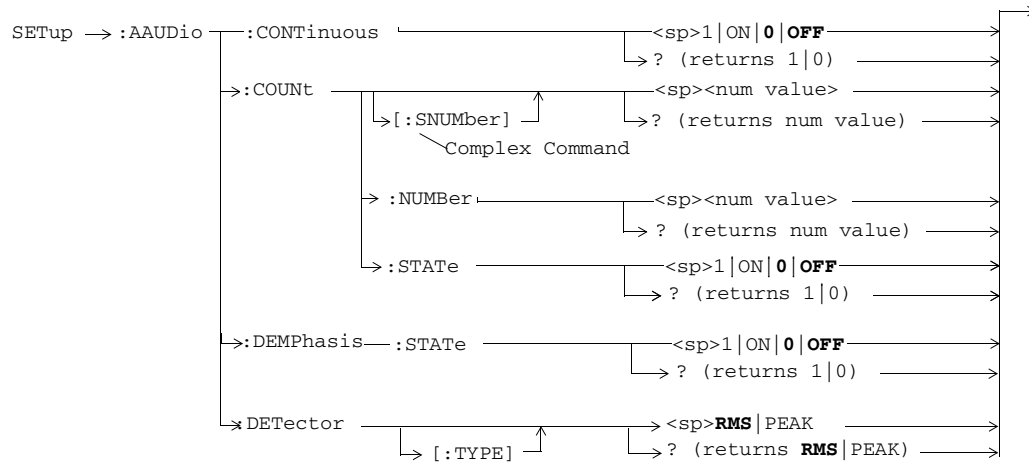


GPiB Syntax for E1968A, E6701C and E6704A

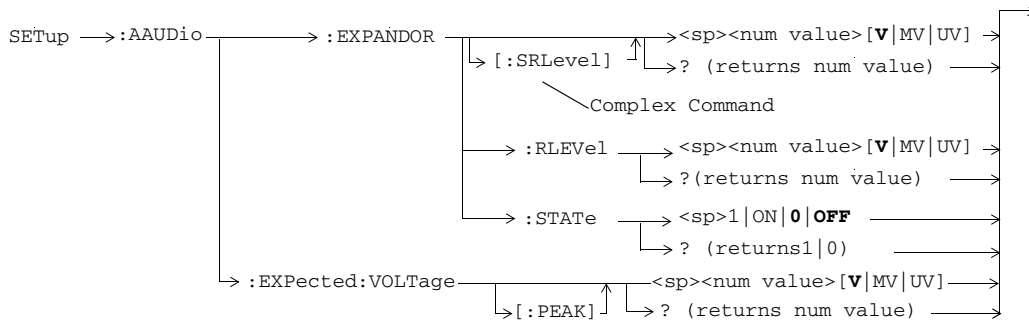
RFGenerator:OUTPut



SETup:AAUDio

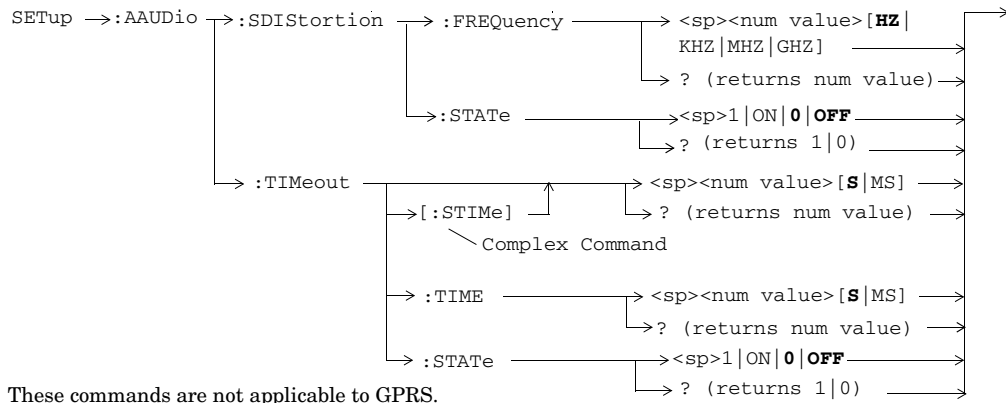
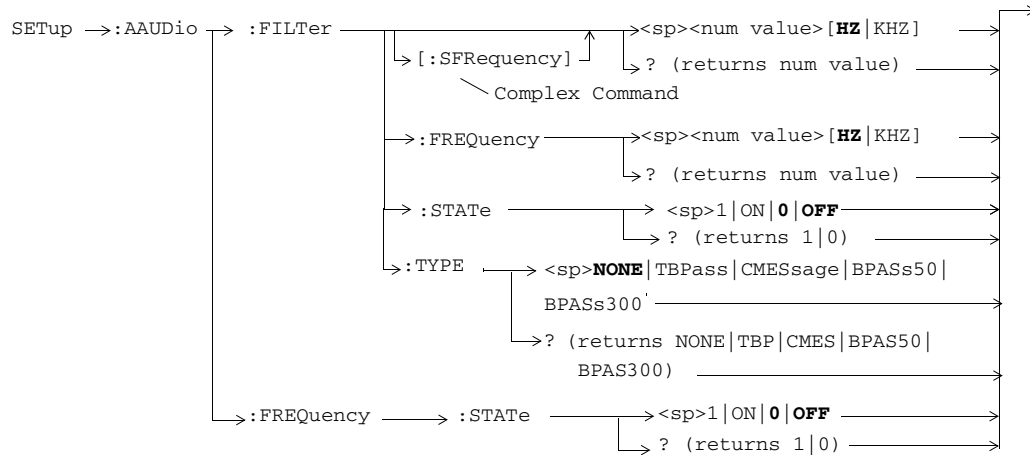


These commands are not applicable to GPRS.



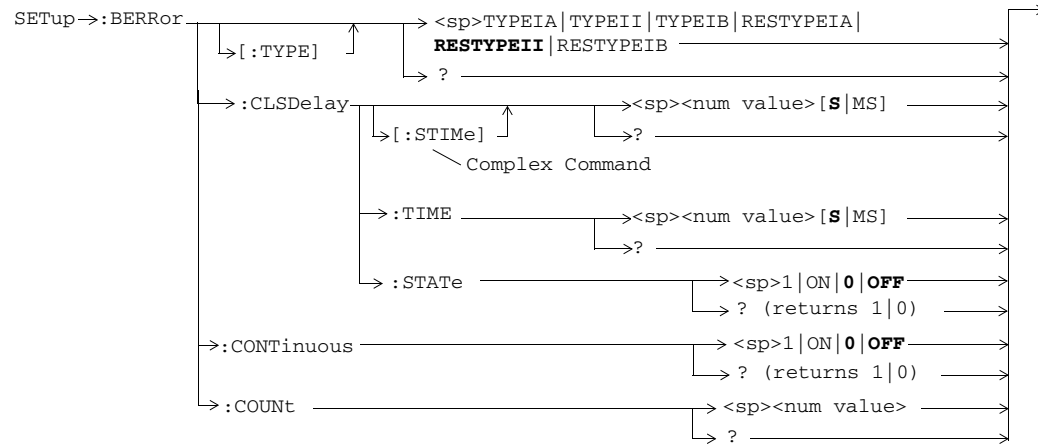
These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A

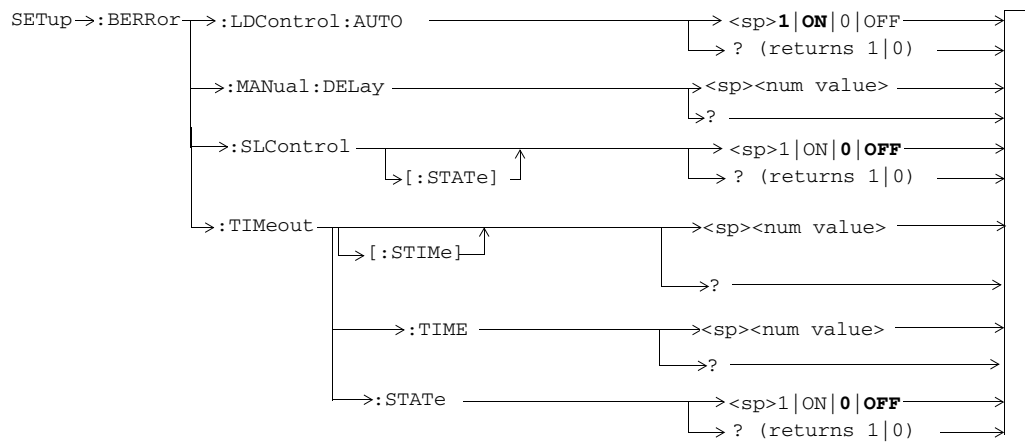


GPIB Syntax for E1968A, E6701C and E6704A

SETup:BERRor

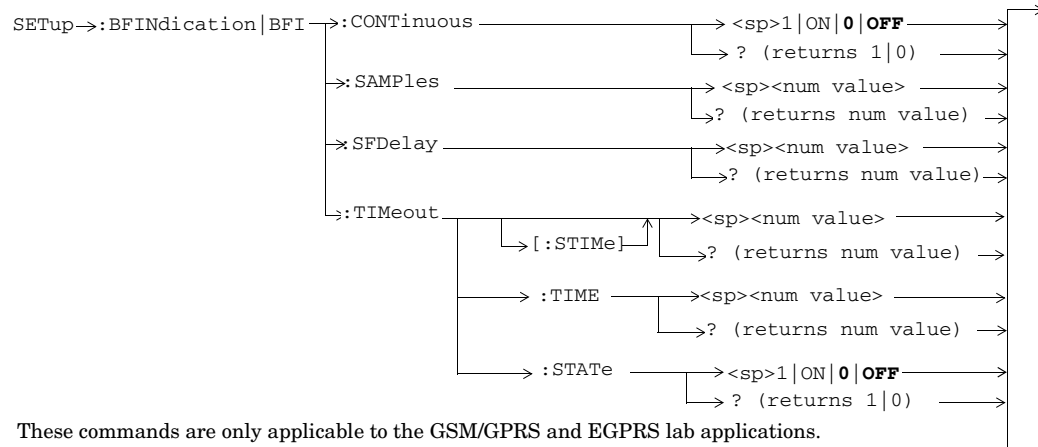


These commands are not applicable to GPRS.

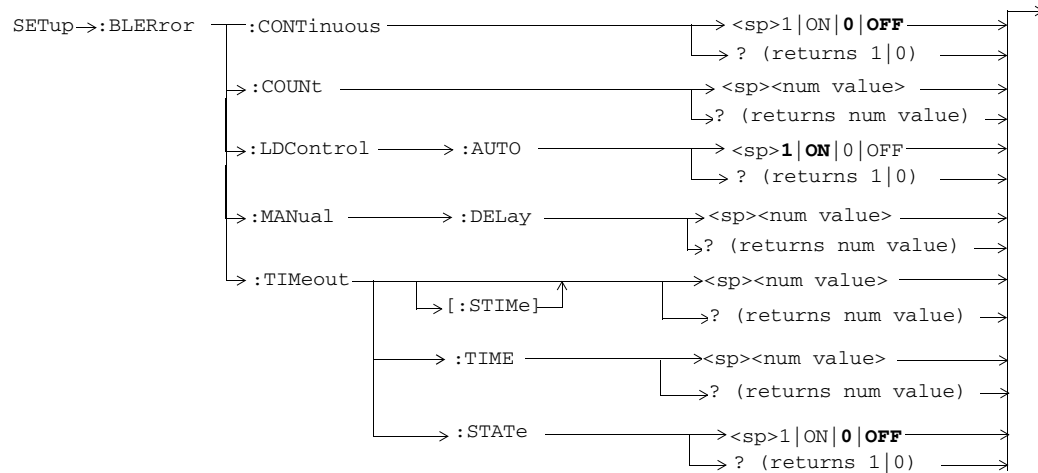


These commands are not applicable to GPRS.

SETup:<BFINDication|BFI>



SETup:BLERror

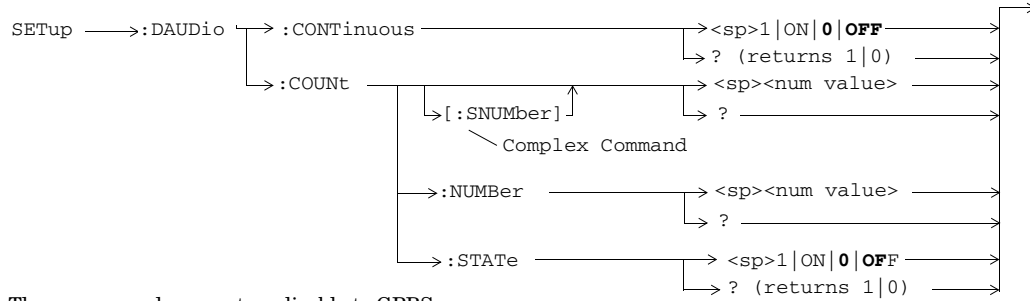


GPiB Syntax for E1968A, E6701C and E6704A

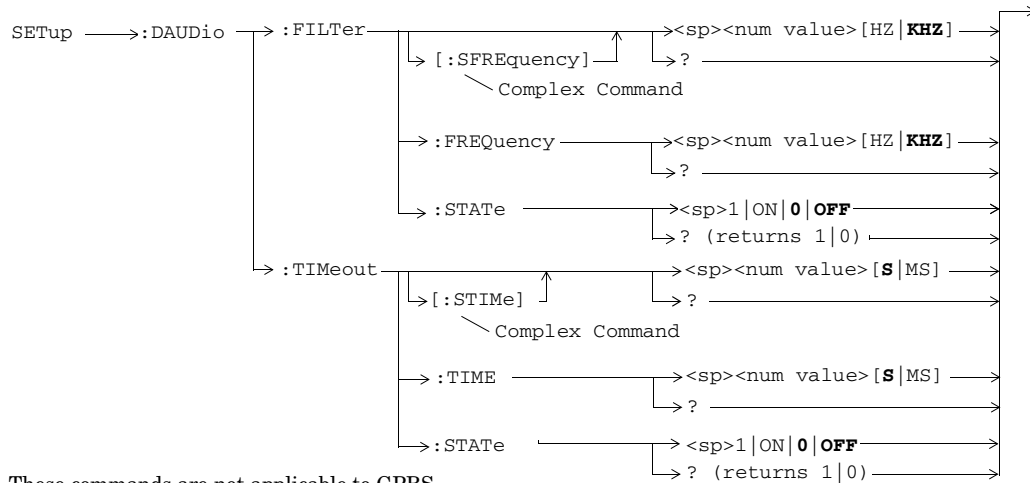
SETup:CONTinuous

SETup: ————┐ ————> :CONTinuous ————> :OFF | :ON ————>
 └─> [:ALL] —┘

SETup:DAUDio



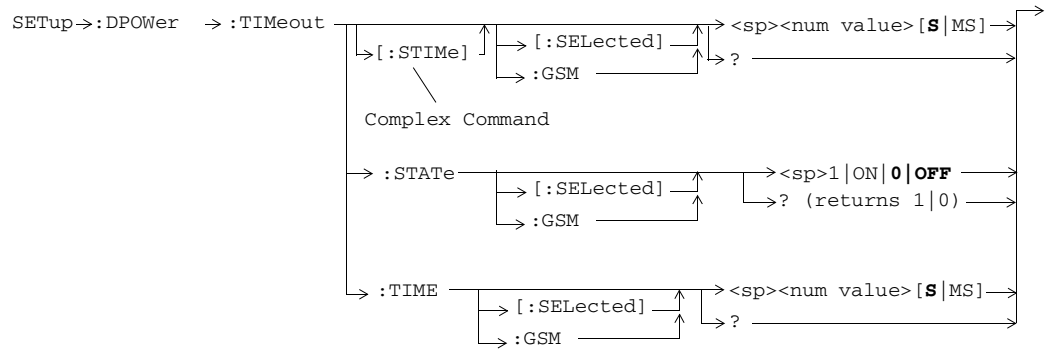
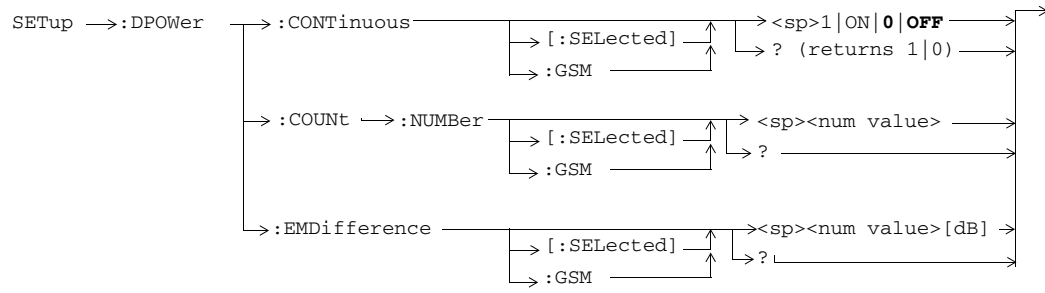
These commands are not applicable to GPRS.



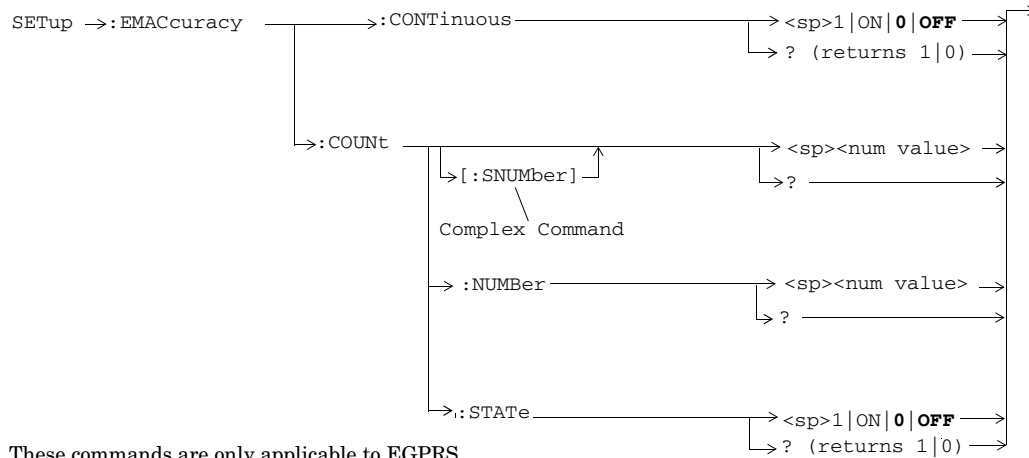
These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A

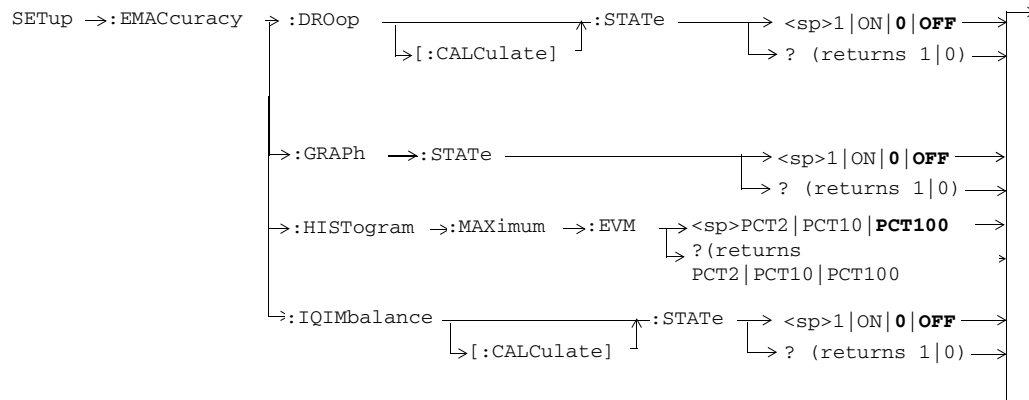
SETup:DPOWer



SETup:EMACcuracy

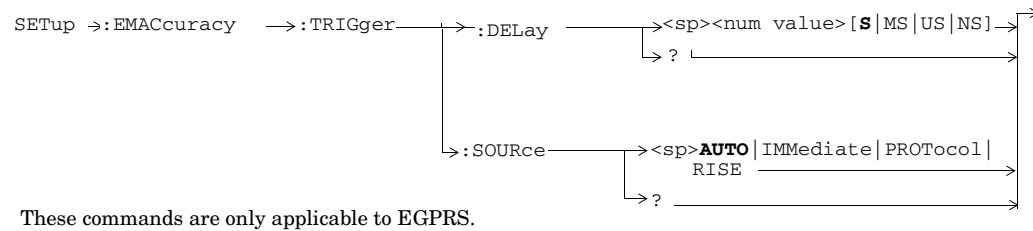
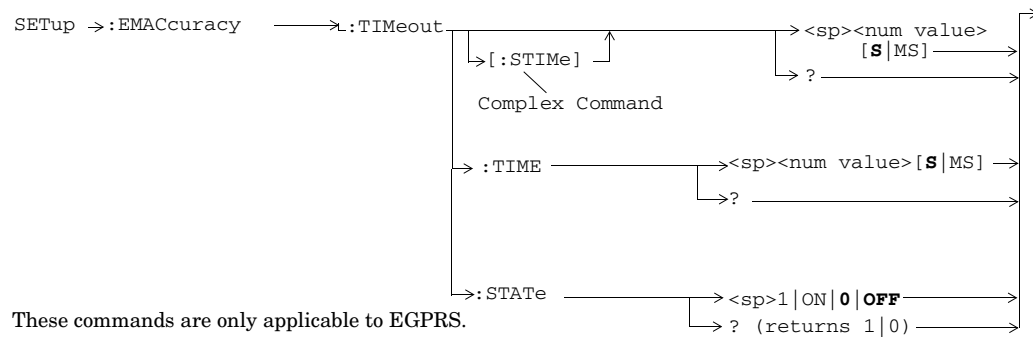


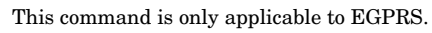
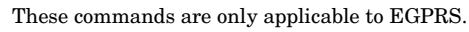
These commands are only applicable to EGPRS.



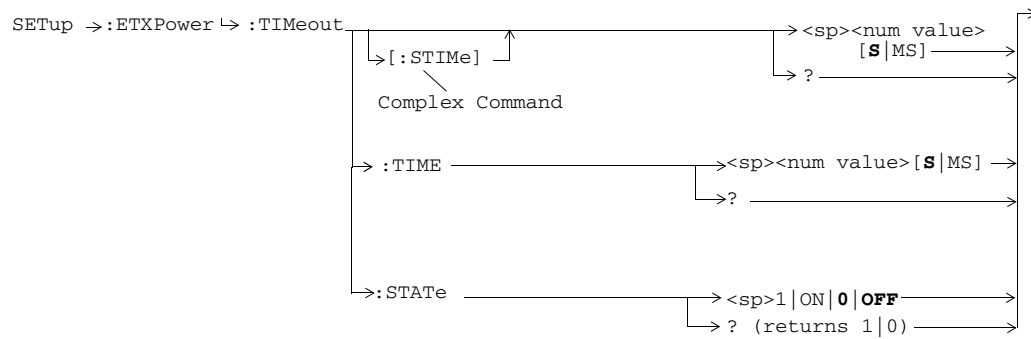
This command is only applicable to EGPRS.

GPiB Syntax for E1968A, E6701C and E6704A



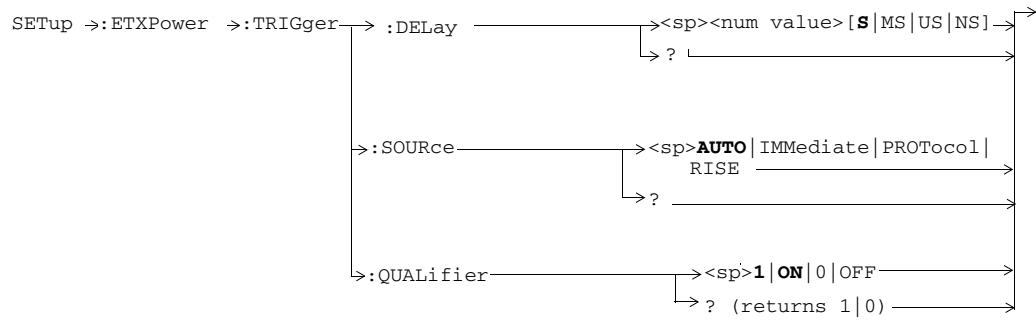


GPIB Syntax for E1968A, E6701C and E6704A



These commands are only applicable to EGPRS.

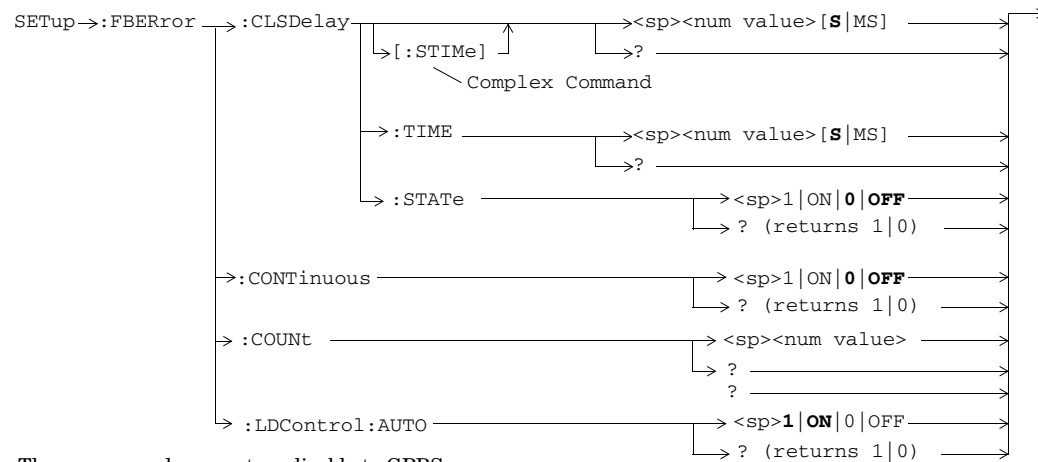
GPiB Syntax for E1968A, E6701C and E6704A



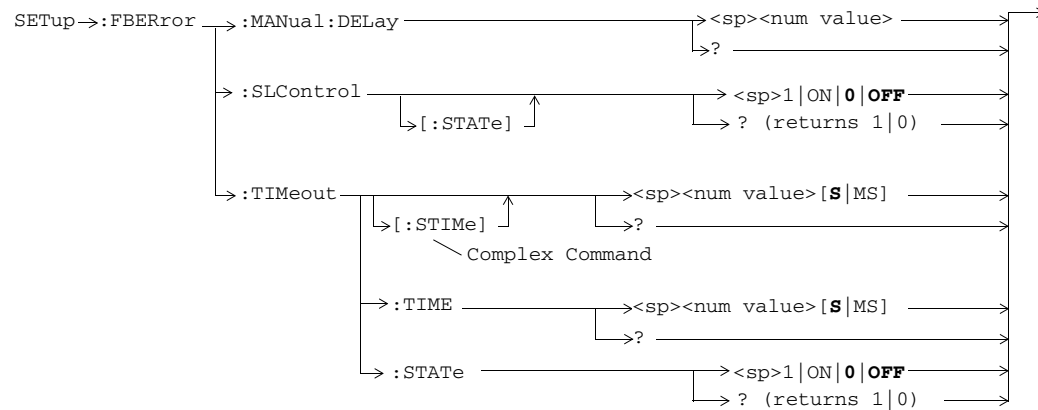
These commands are only applicable to EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A

SETup:FBError

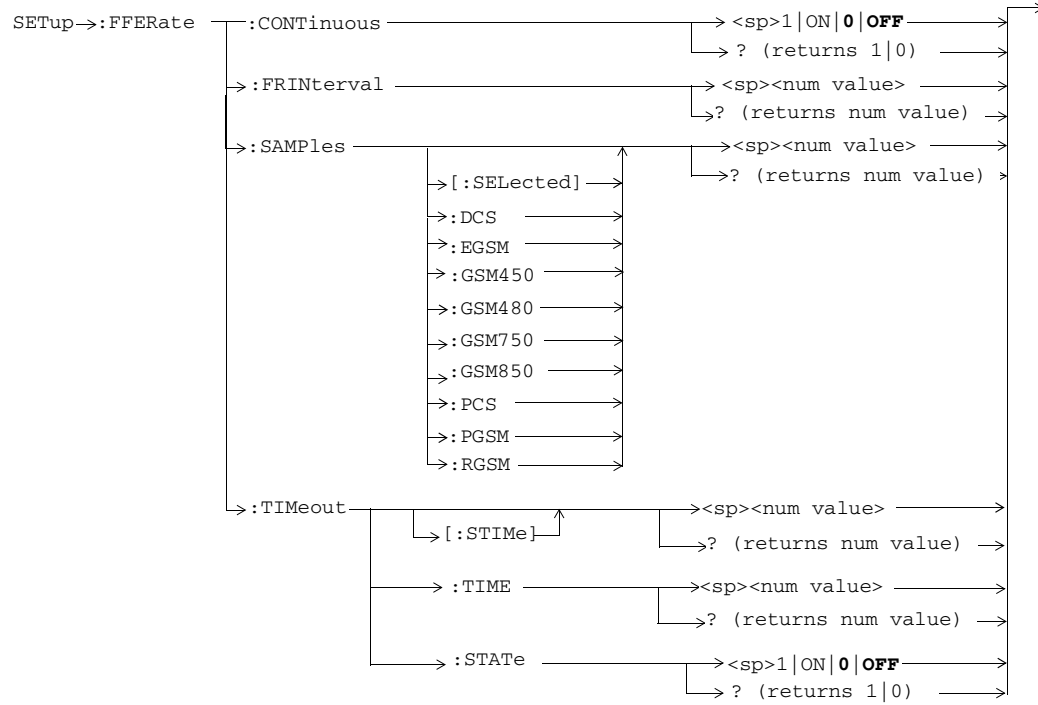


These commands are not applicable to GPRS.



These commands are not applicable to GPRS.

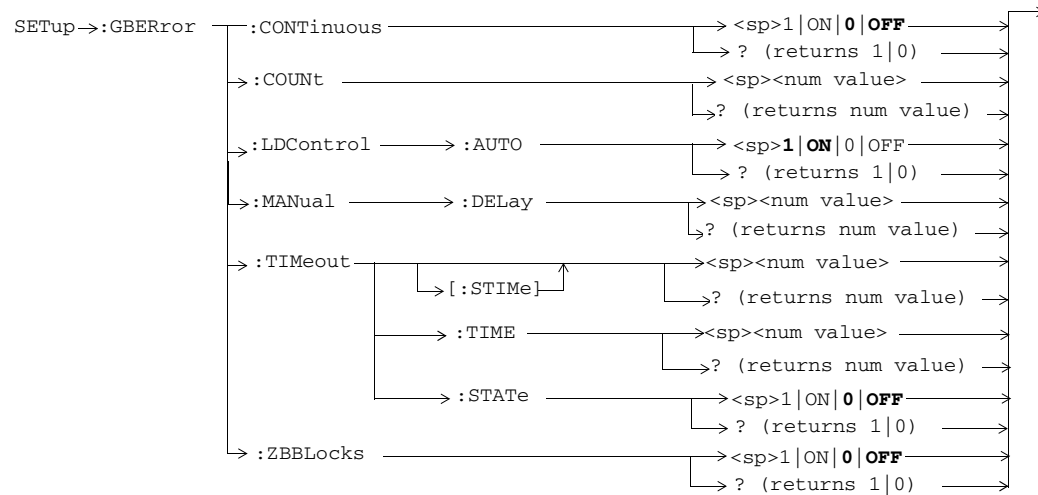
SETup:FFERate



These commands are only applicable to the GSM/GPRS and EGPRS lab applications.

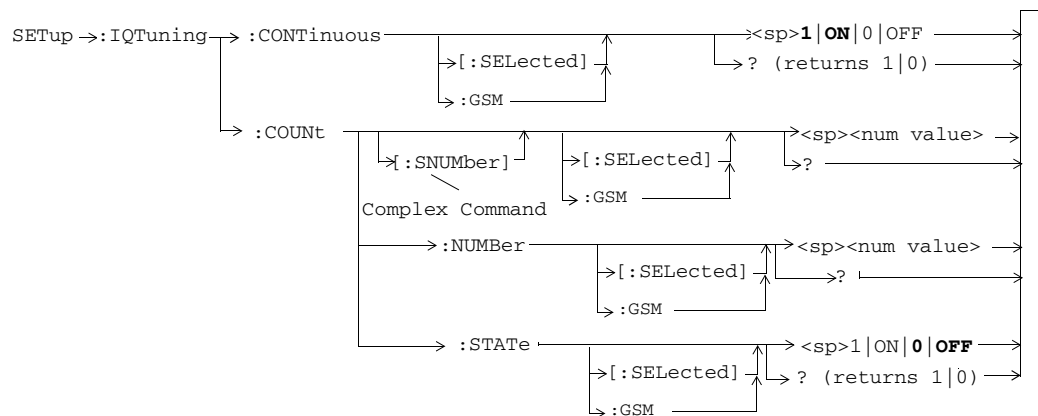
GPIB Syntax for E1968A, E6701C and E6704A

SETup:GBERror

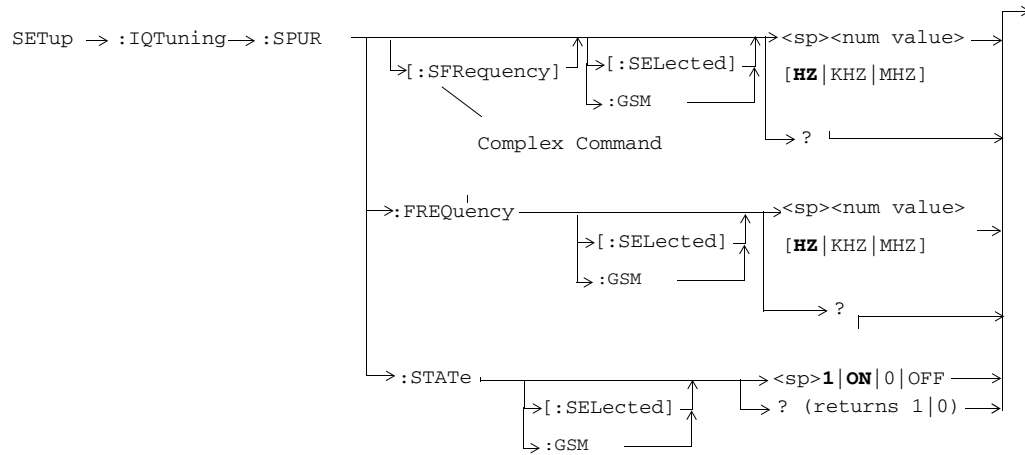
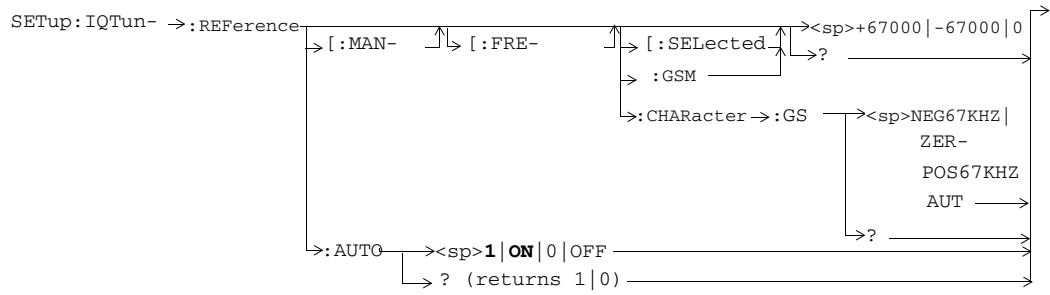


These commands are not applicable to GSM.

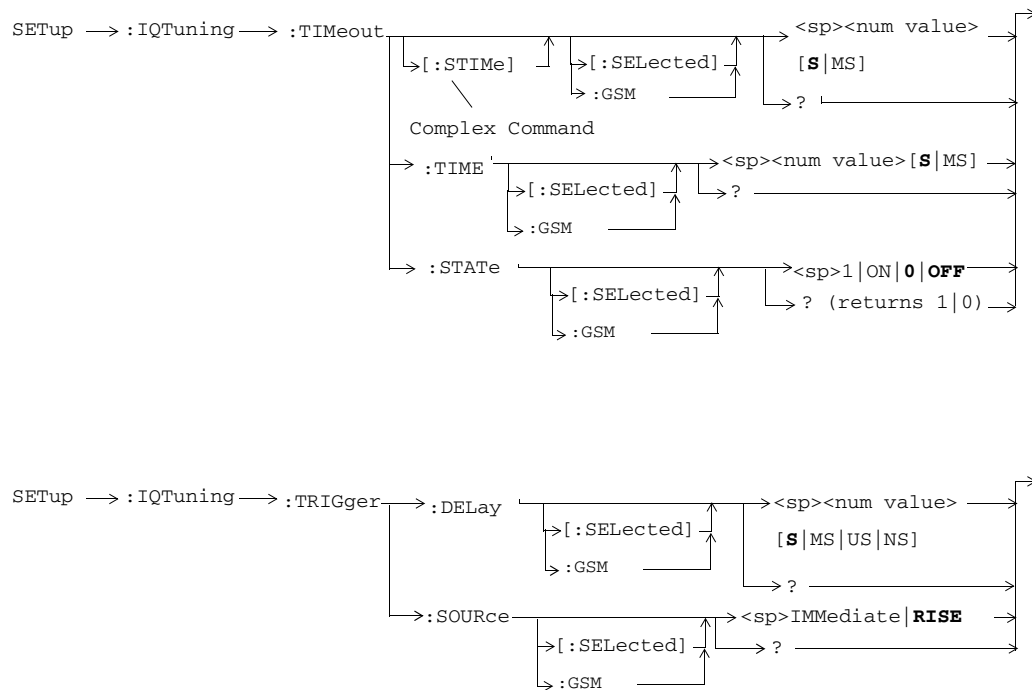
SETup:IQTuning



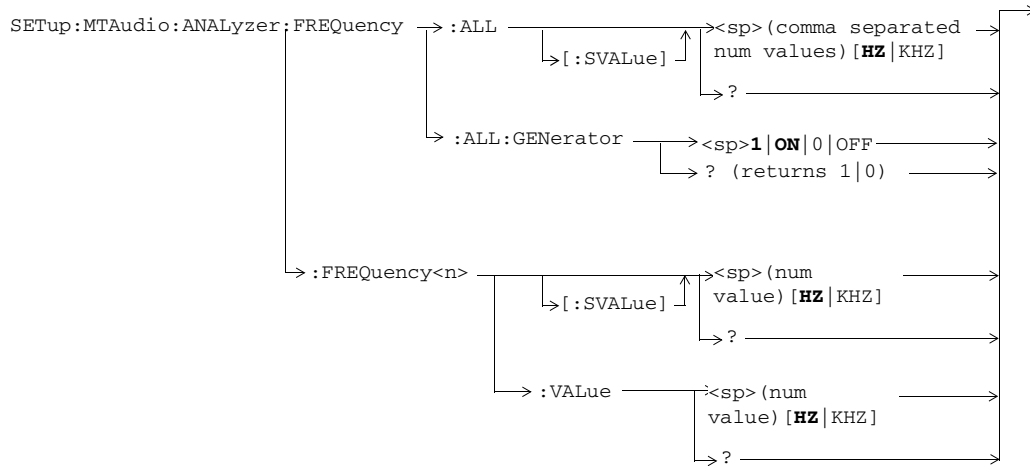
GPIO Syntax for E1968A, E6701C and E6704A



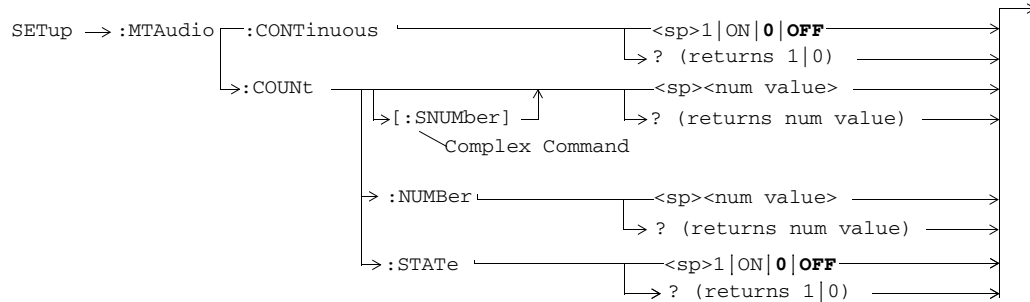
GPIB Syntax for E1968A, E6701C and E6704A



SETup:MTAudio

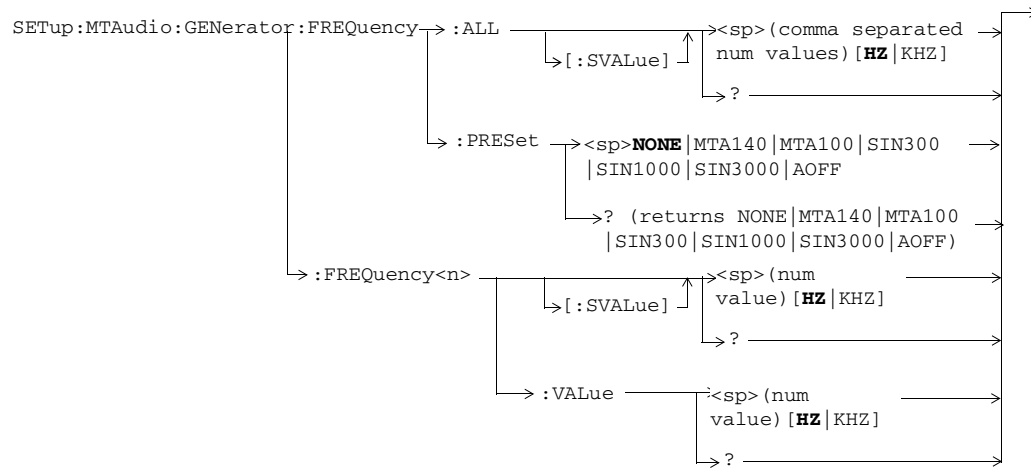


These commands are not applicable to GPRS or EGPRS.



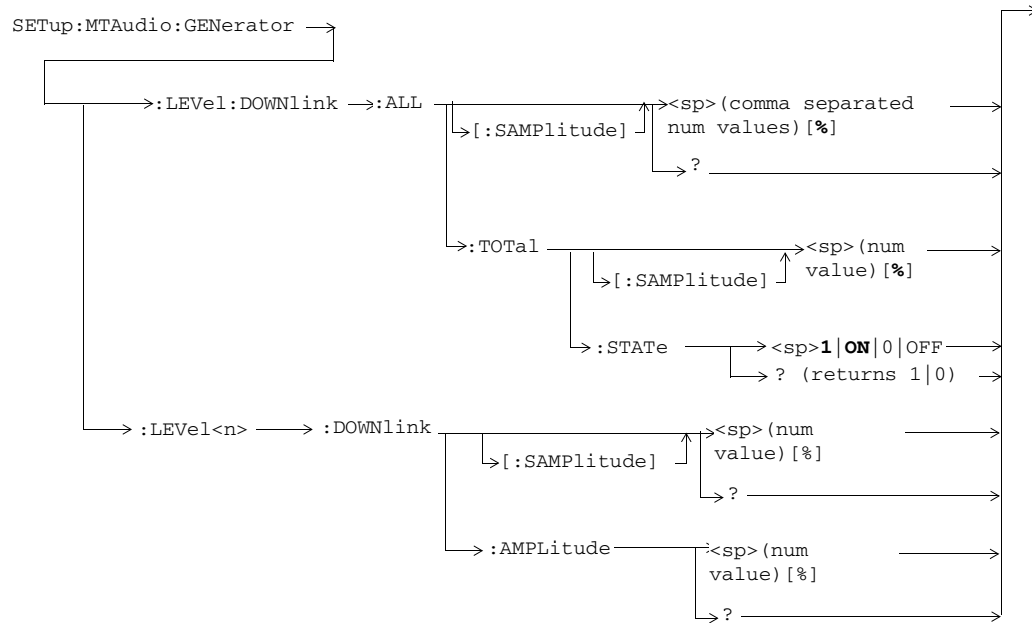
These commands are not applicable to GPRS or EGPRS.

GPiB Syntax for E1968A, E6701C and E6704A



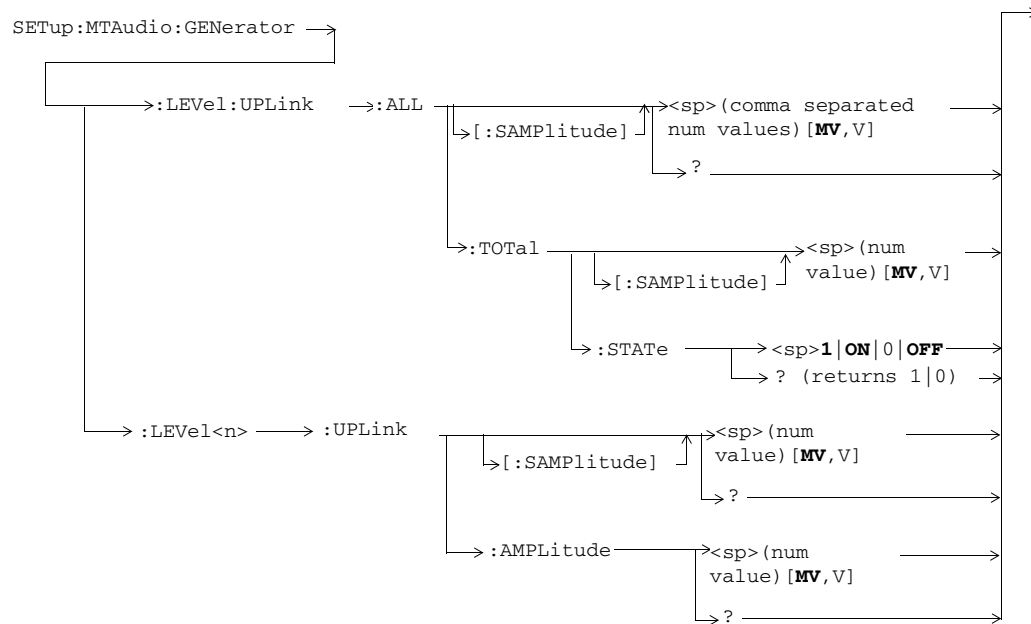
These commands are not applicable to GPRS or EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A



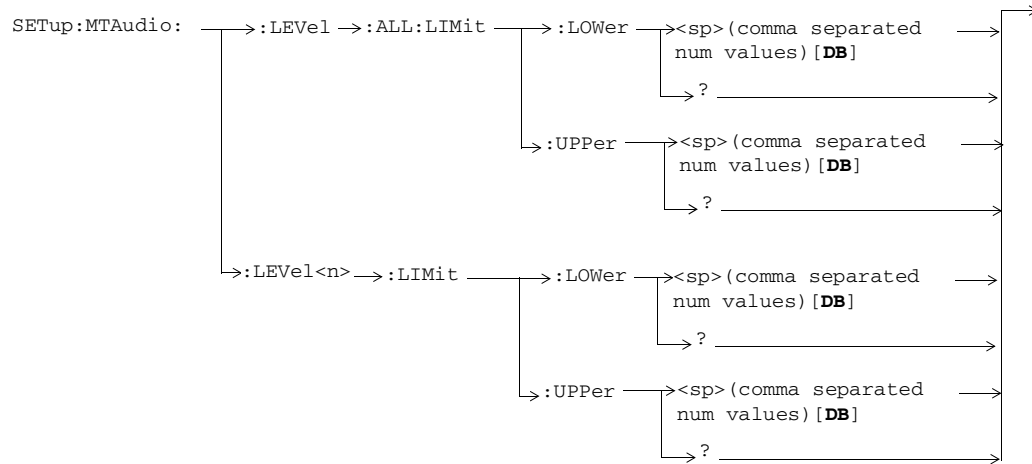
These commands are not applicable to GPRS or EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A



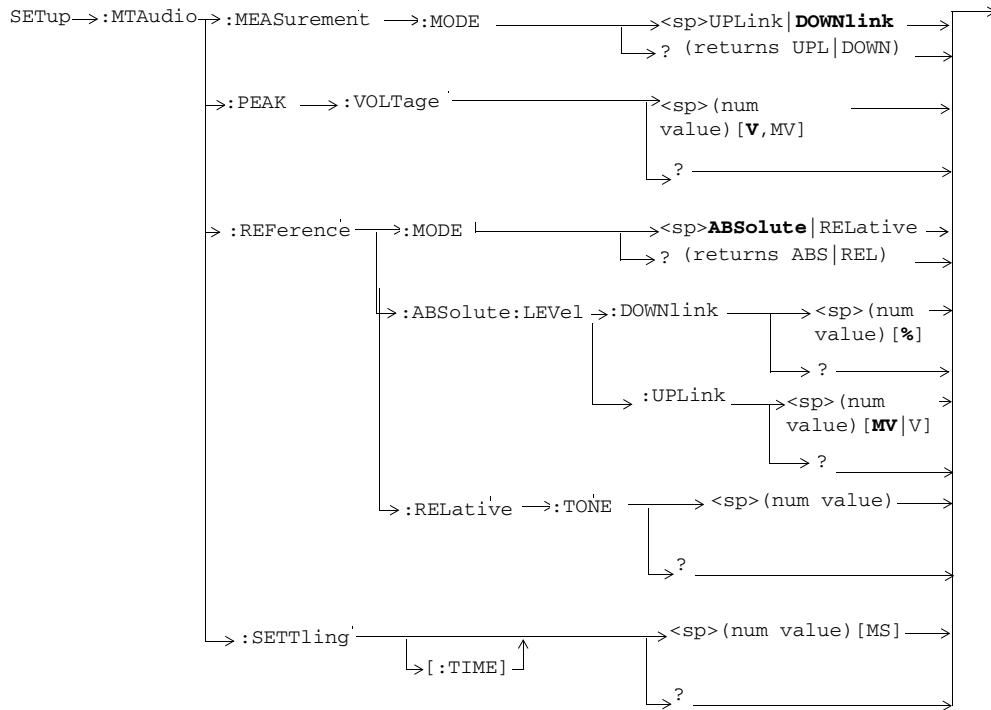
These commands are not applicable to GPRS or EGPRS.

GPiB Syntax for E1968A, E6701C and E6704A



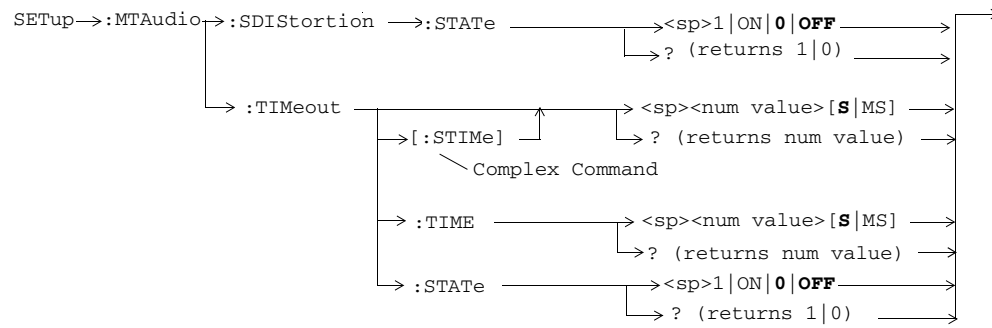
These commands are not applicable to GPRS or EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A



These commands are not applicable to GPRS.

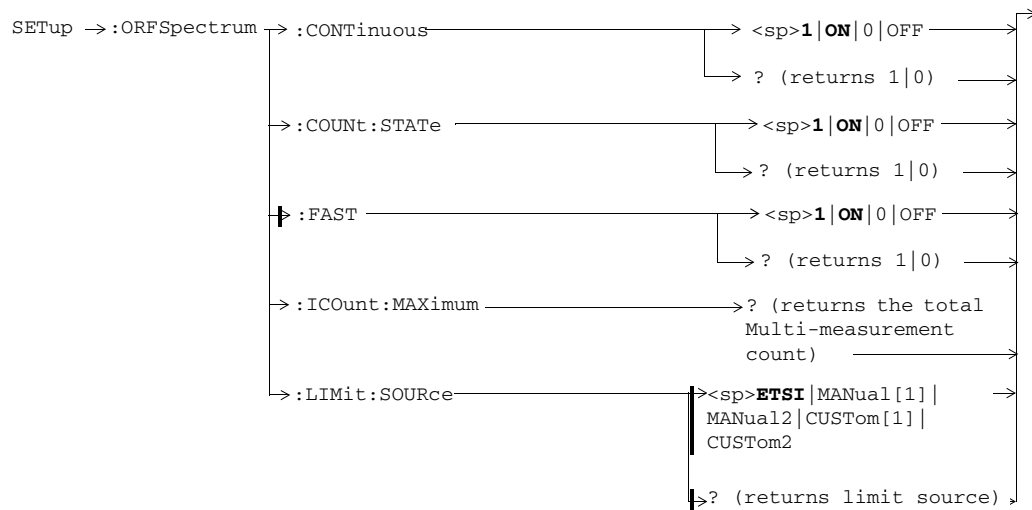
GPIB Syntax for E1968A, E6701C and E6704A



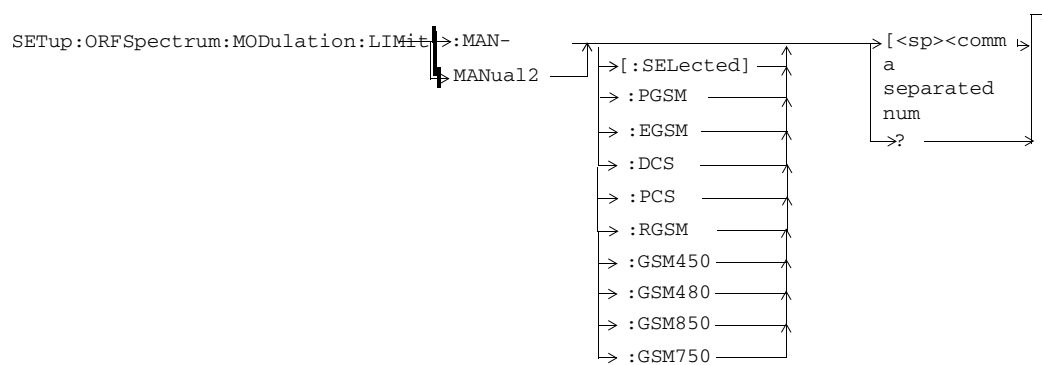
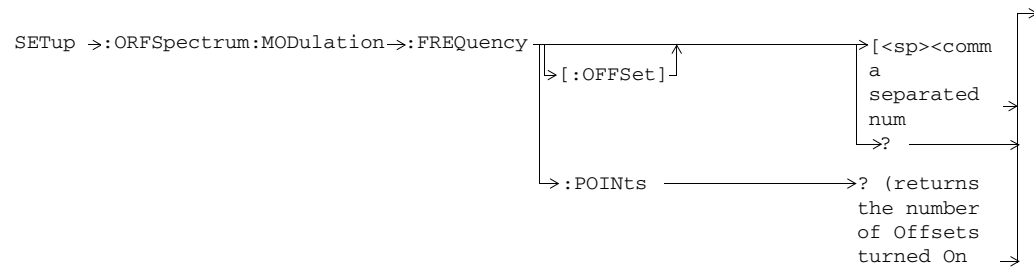
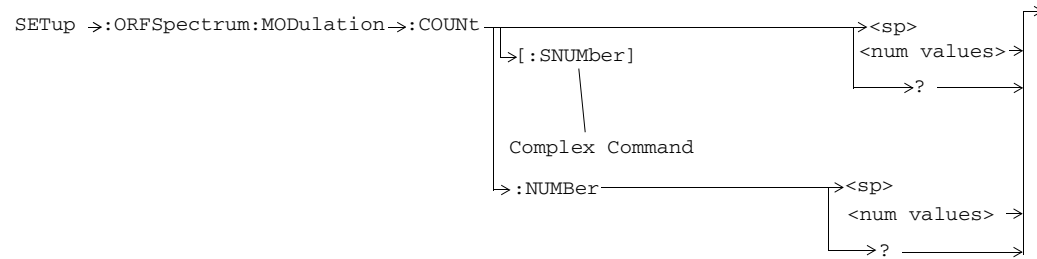
These commands are not applicable to GPRS and EGPRS.

GPIB Syntax for E1968A, E6701C and E6704A

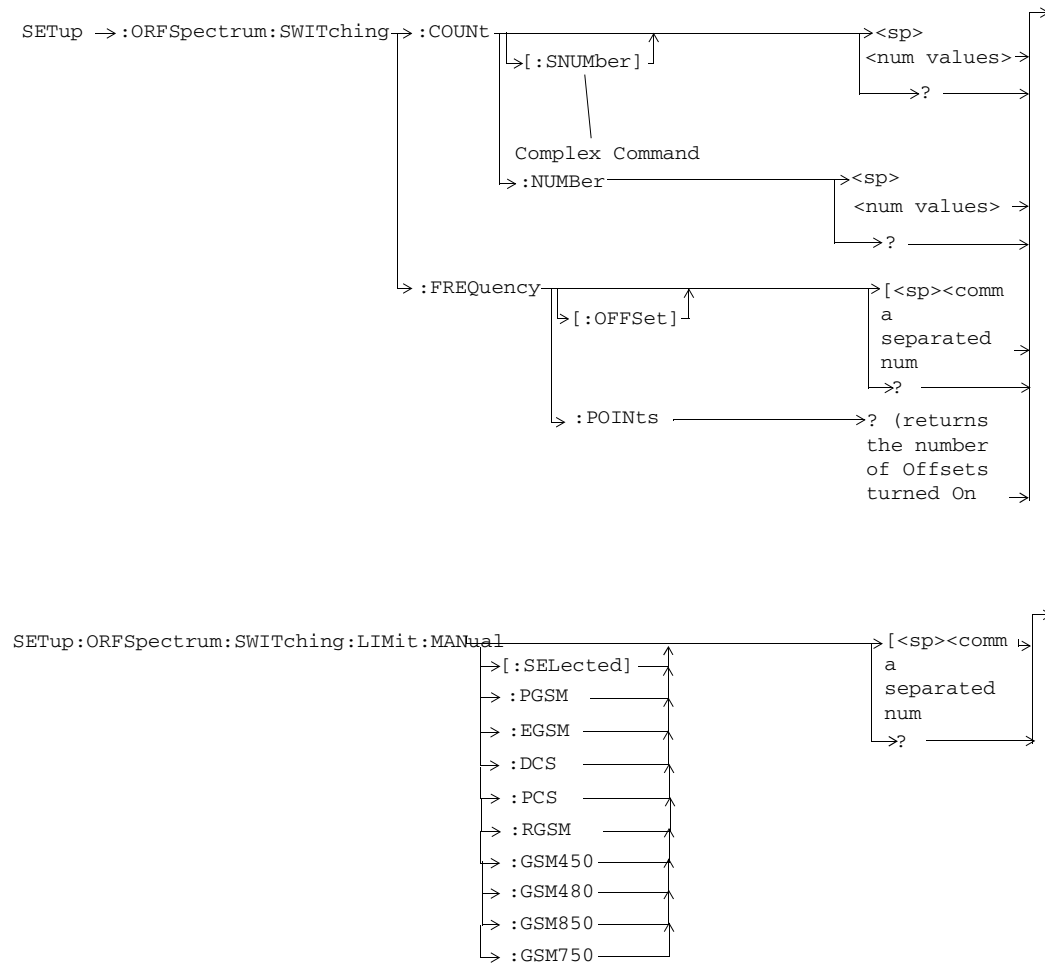
SETup:ORFSpectrum



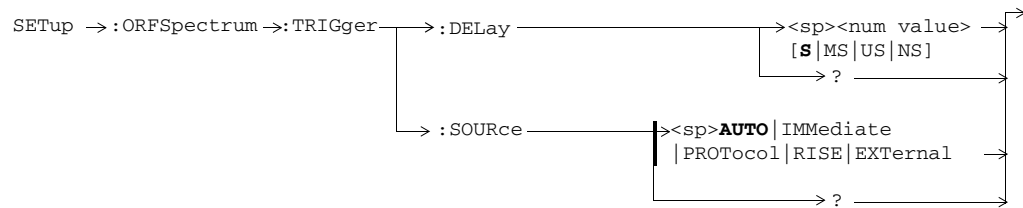
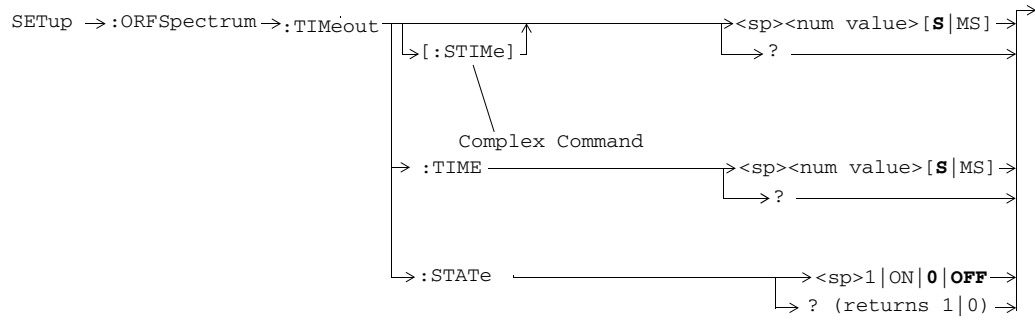
GPiB Syntax for E1968A, E6701C and E6704A



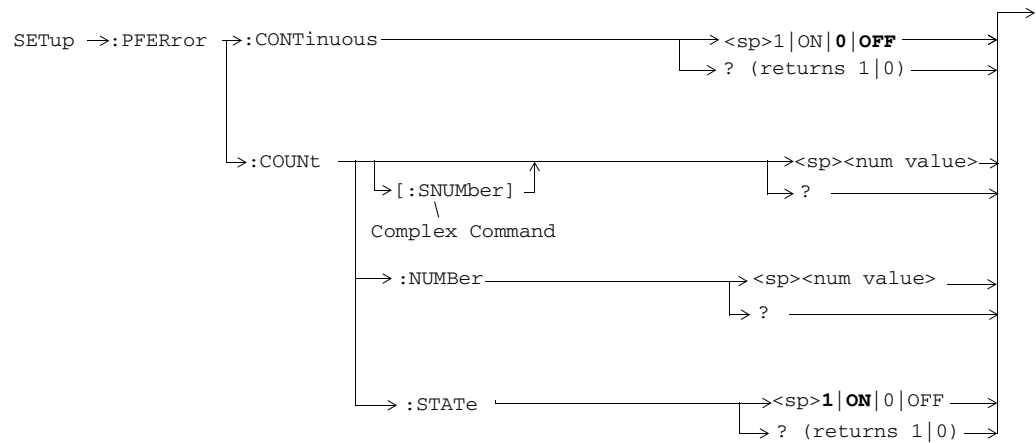
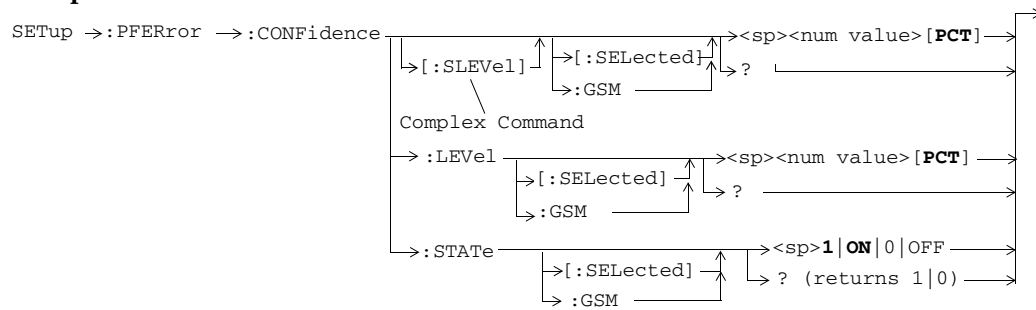
GPIB Syntax for E1968A, E6701C and E6704A



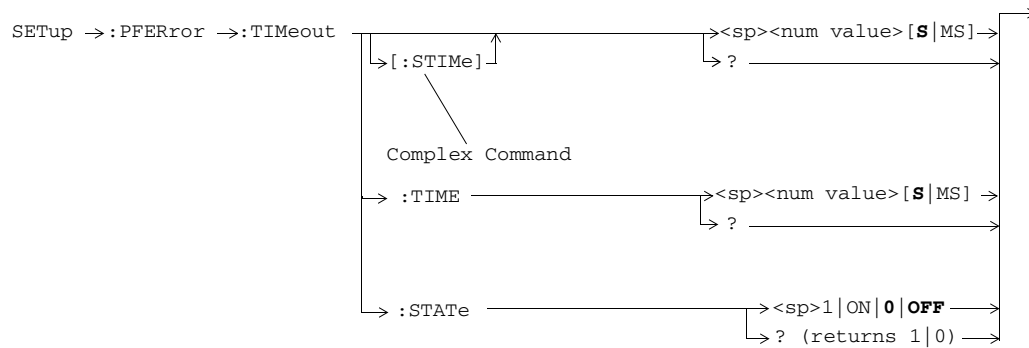
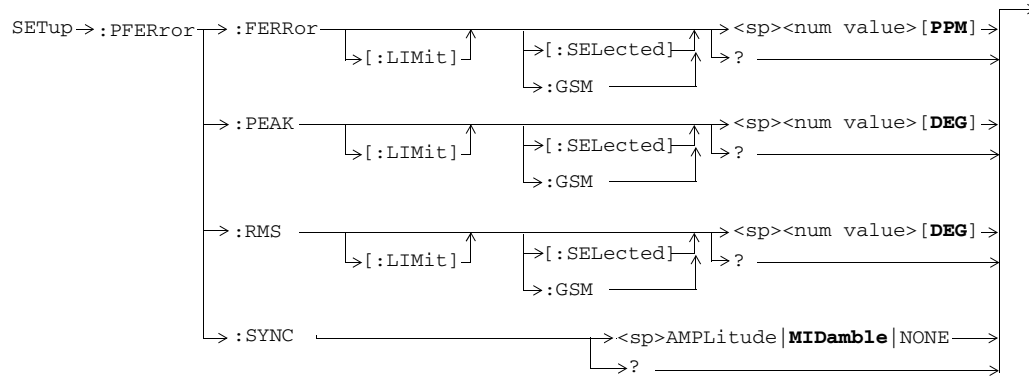
GPIB Syntax for E1968A, E6701C and E6704A



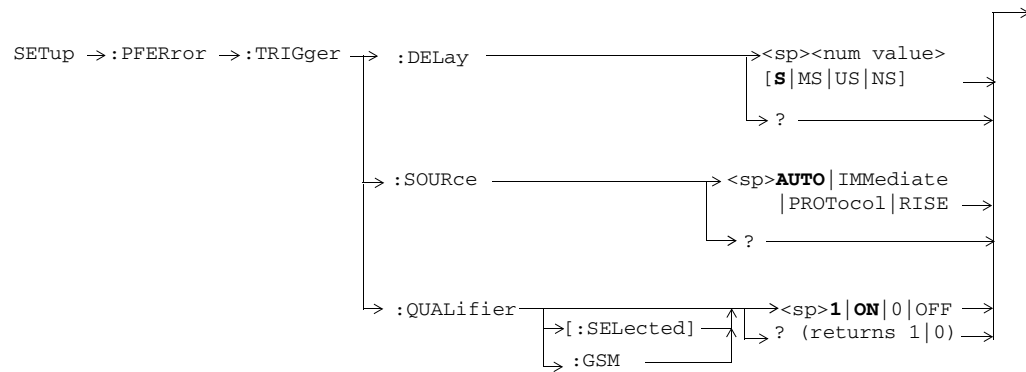
SETup:PFERror



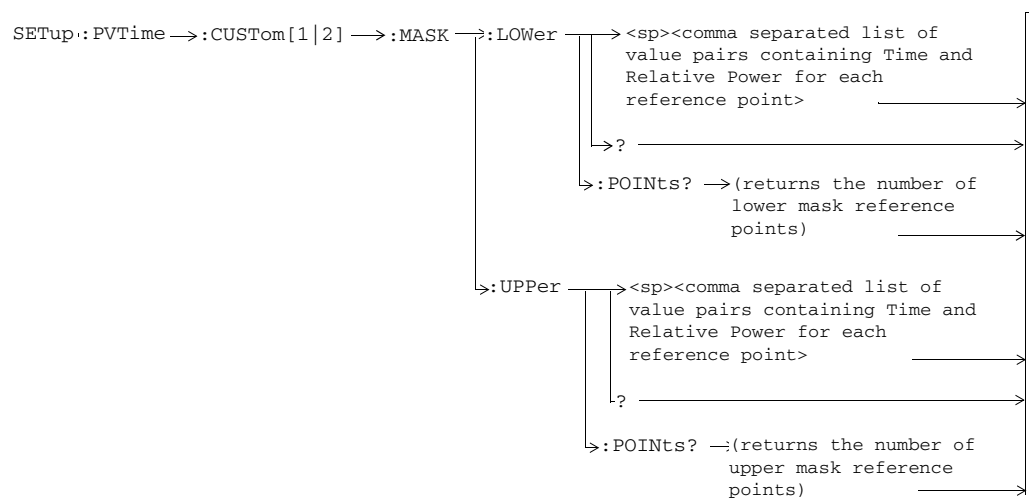
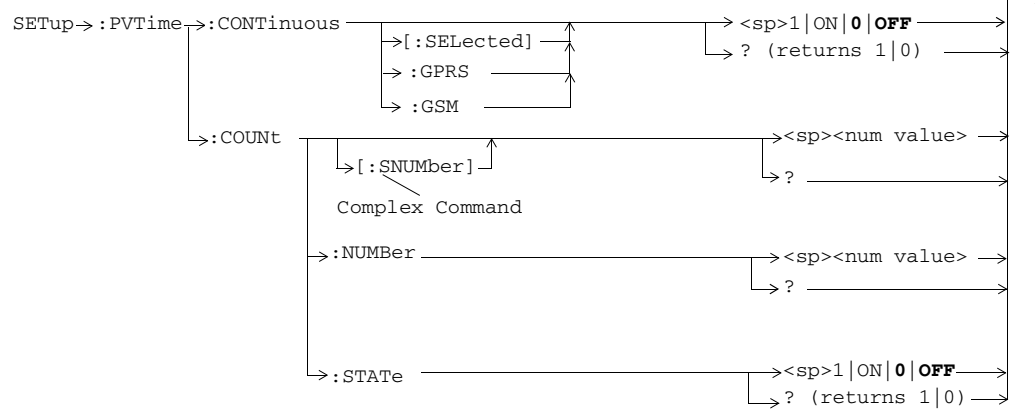
GPIB Syntax for E1968A, E6701C and E6704A



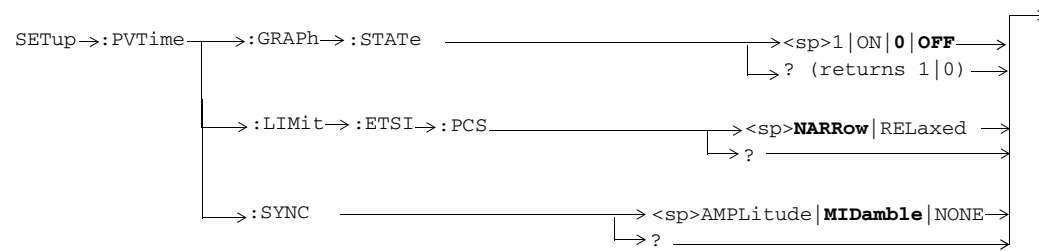
GPiB Syntax for E1968A, E6701C and E6704A



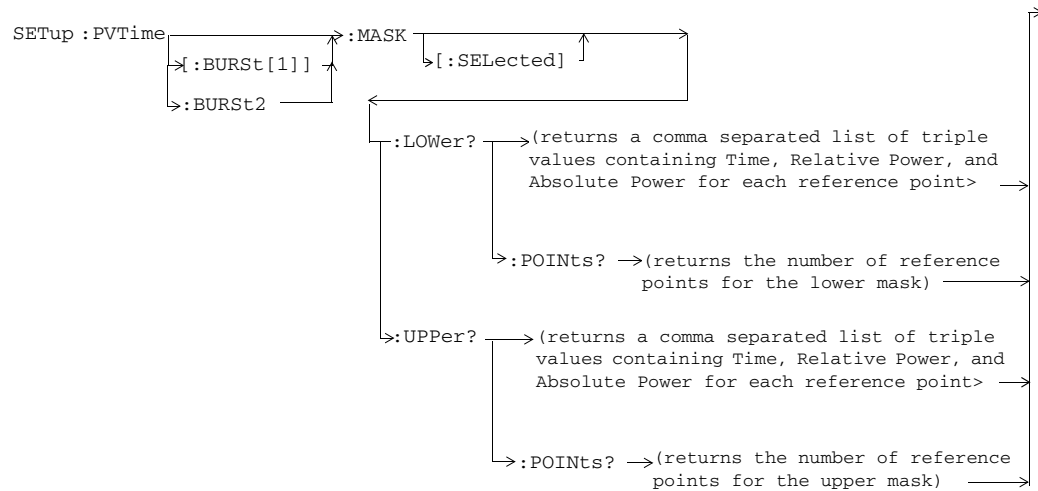
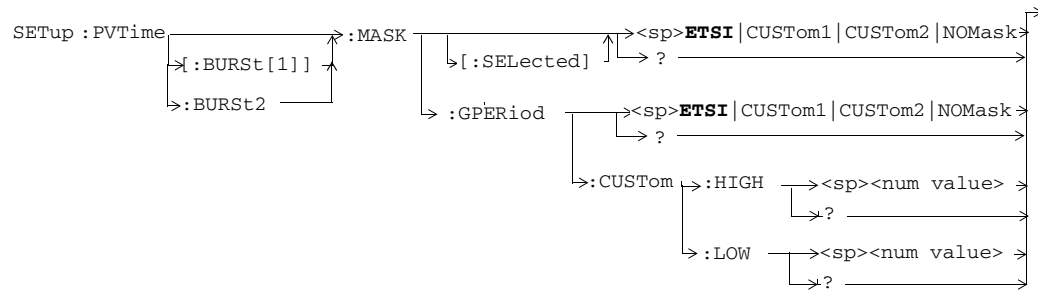
SETup:PVTime



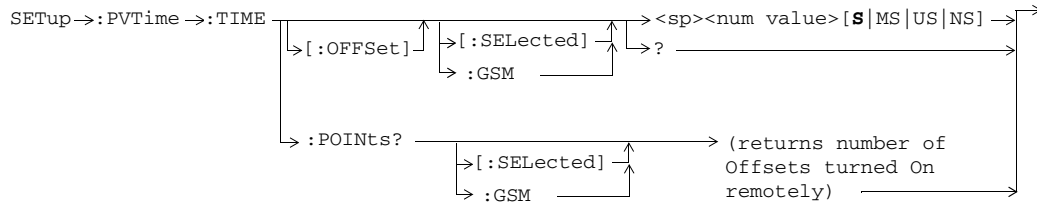
GPIB Syntax for E1968A, E6701C and E6704A



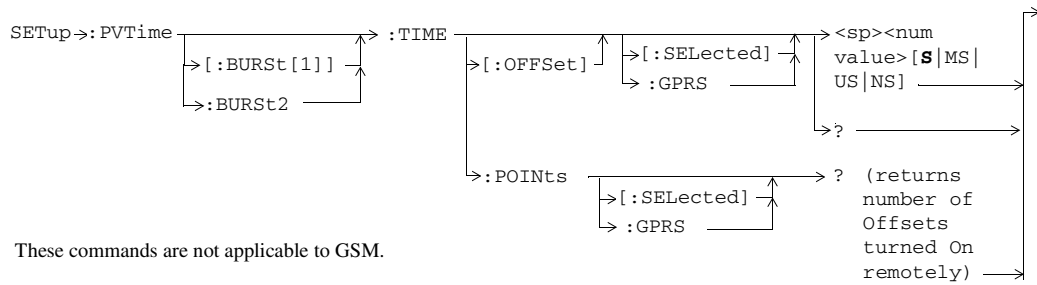
GPIB Syntax for E1968A, E6701C and E6704A



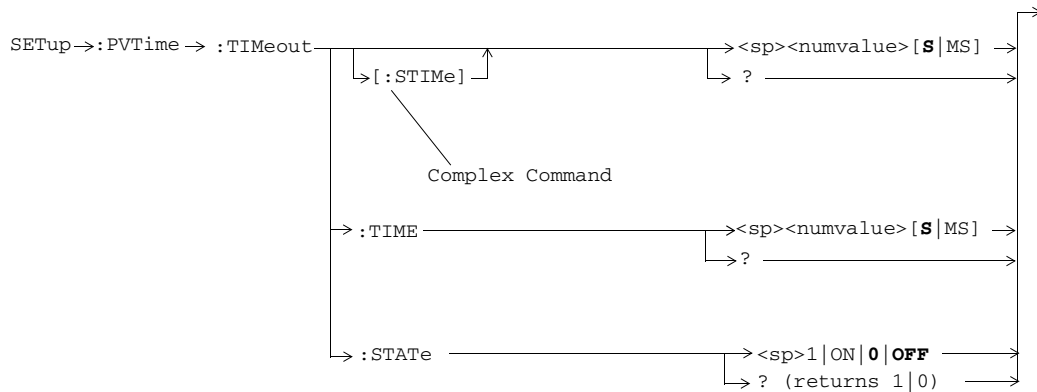
GPiB Syntax for E1968A, E6701C and E6704A



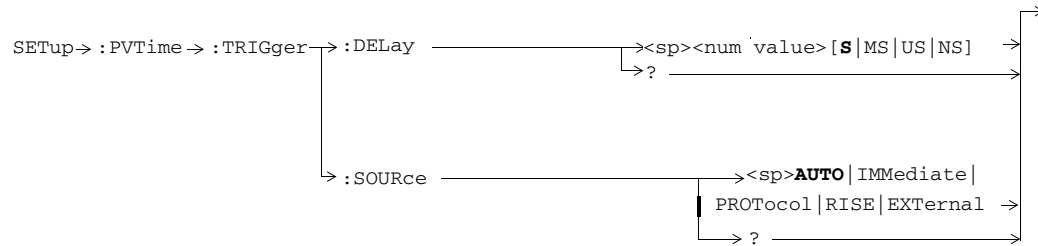
These commands are not applicable to GPRS.



These commands are not applicable to GSM.

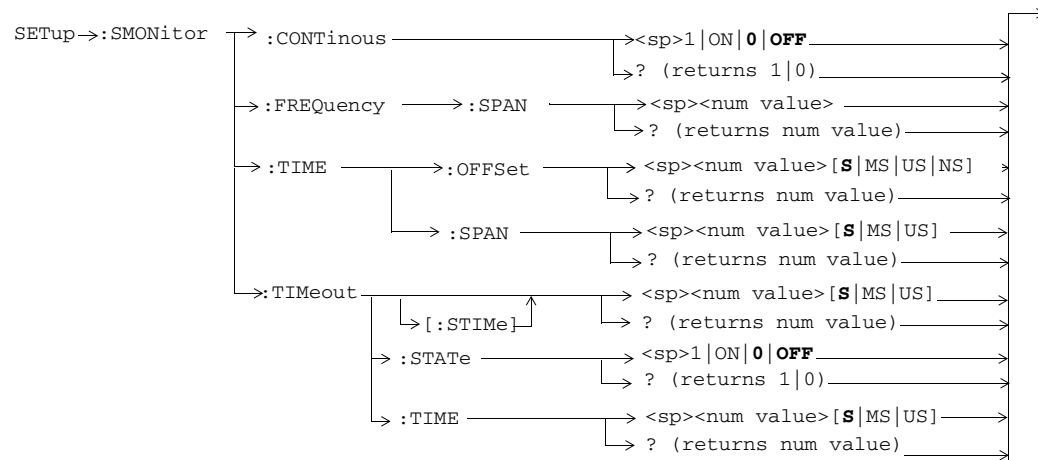
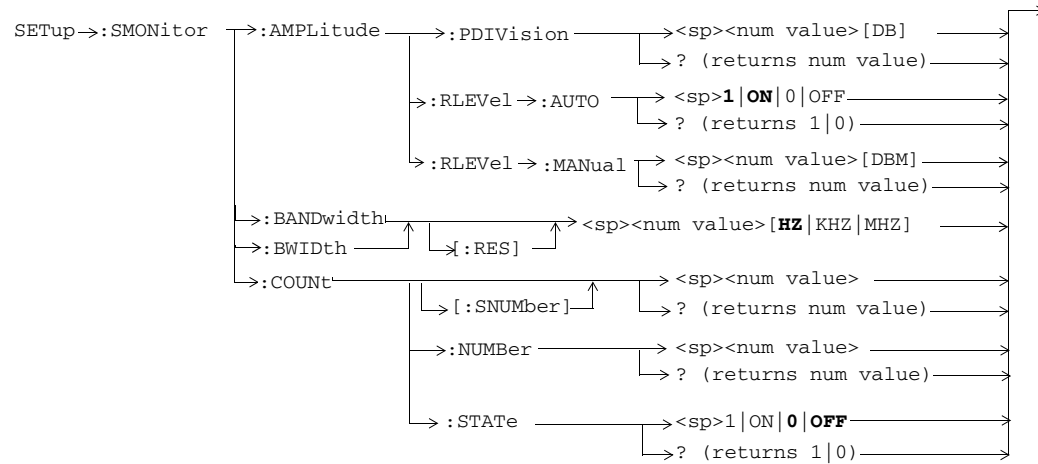


GPiB Syntax for E1968A, E6701C and E6704A

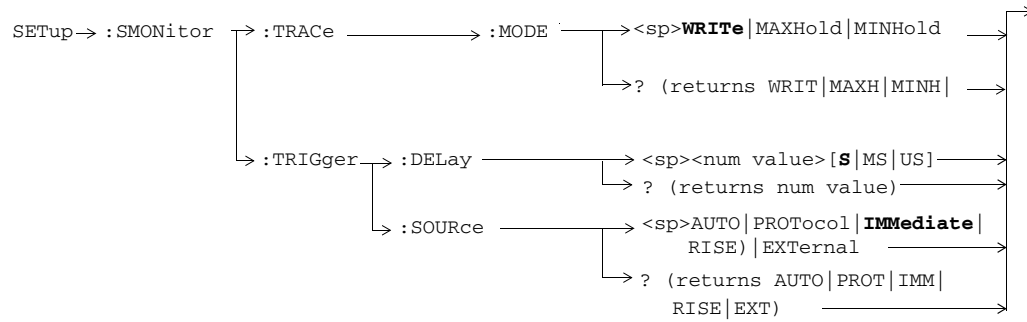


GPiB Syntax for E1968A, E6701C and E6704A

SETup:SMONitor

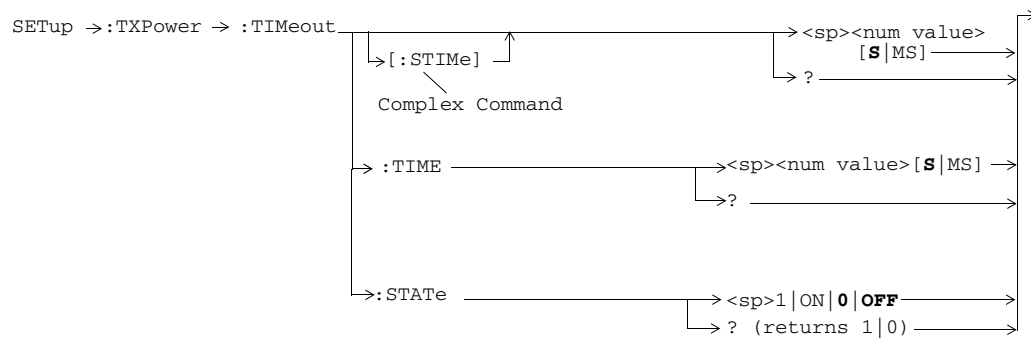
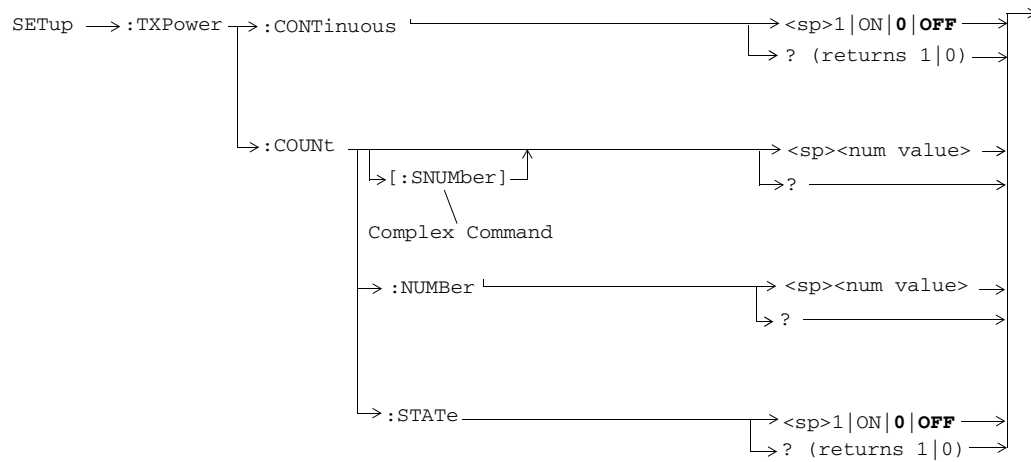


GPiB Syntax for E1968A, E6701C and E6704A

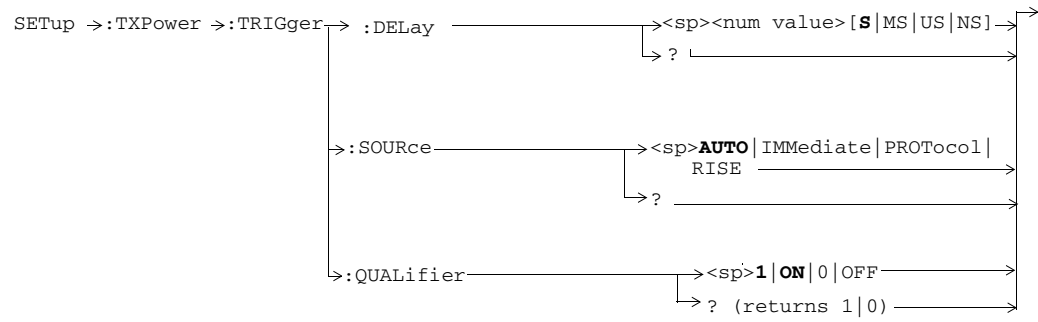


GPiB Syntax for E1968A, E6701C and E6704A

SEtup:TXPower

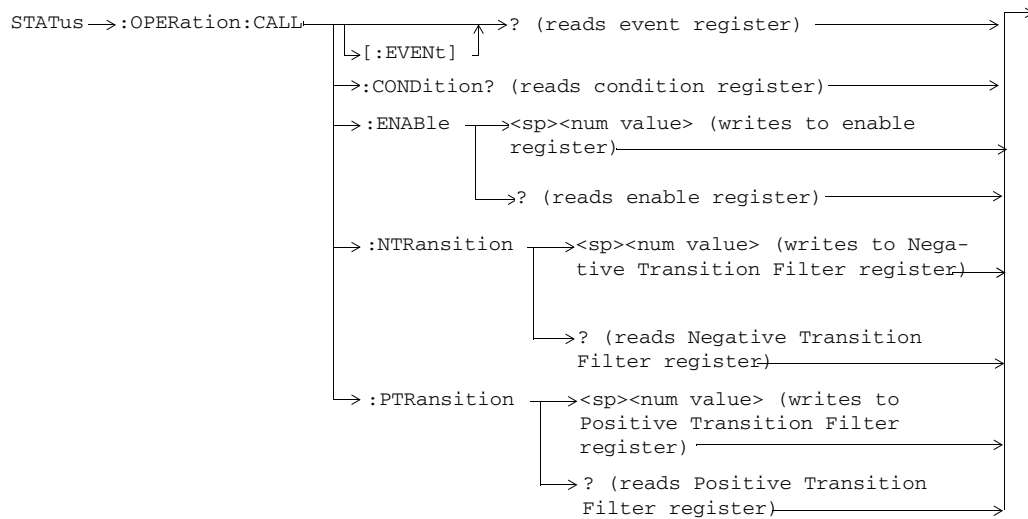
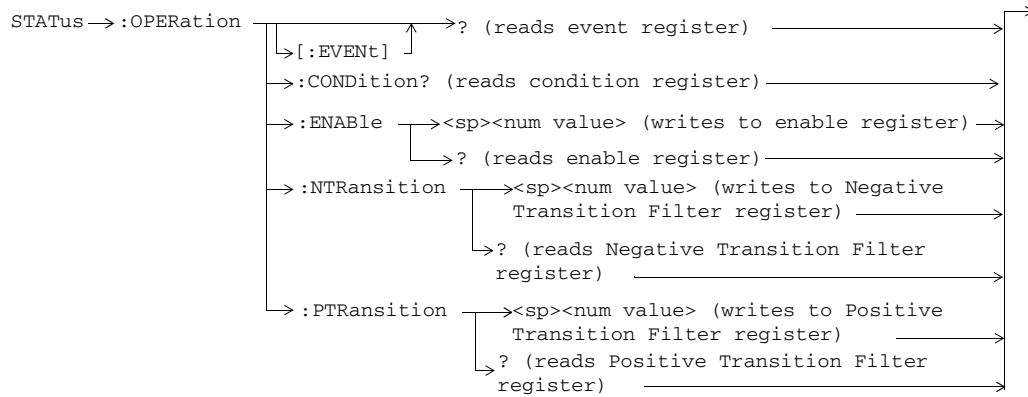


GPIB Syntax for E1968A, E6701C and E6704A

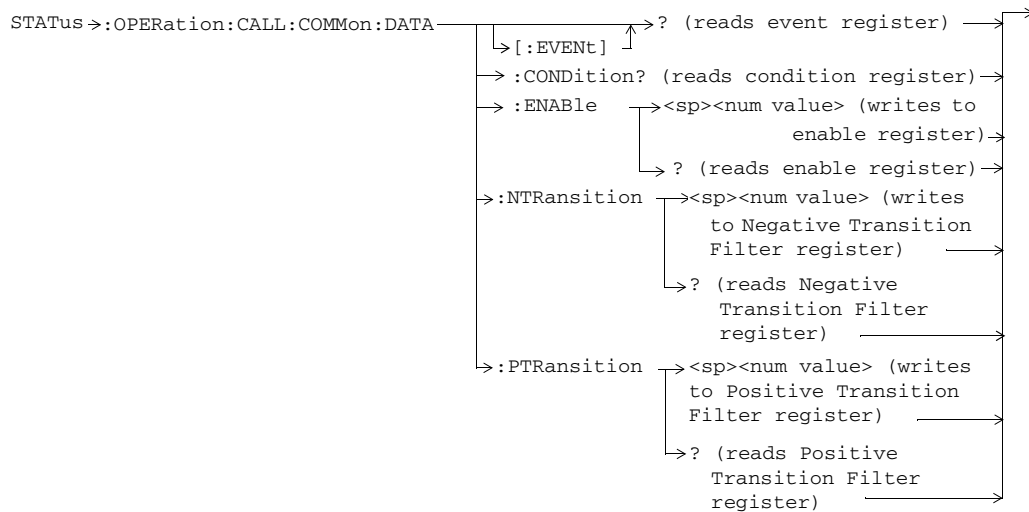
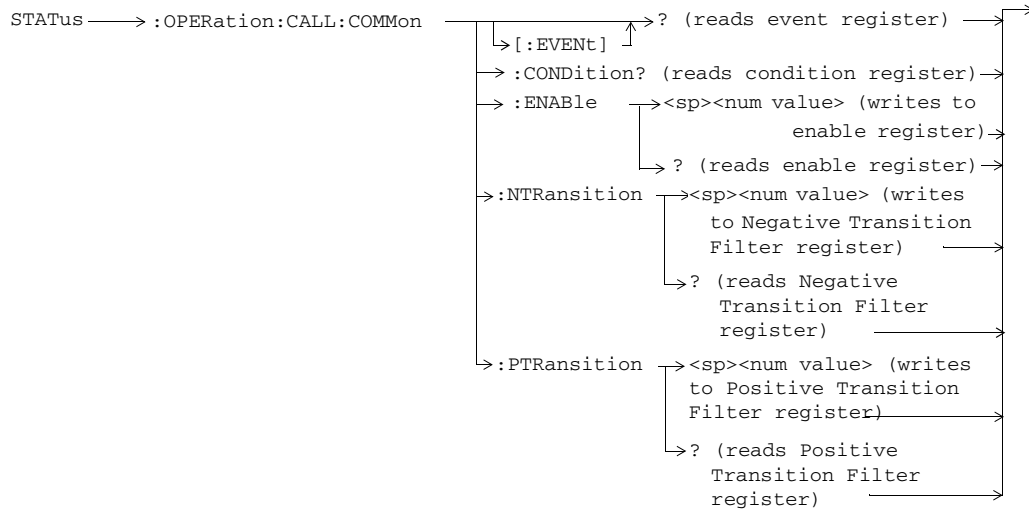


GPIB Syntax for E1968A, E6701C and E6704A

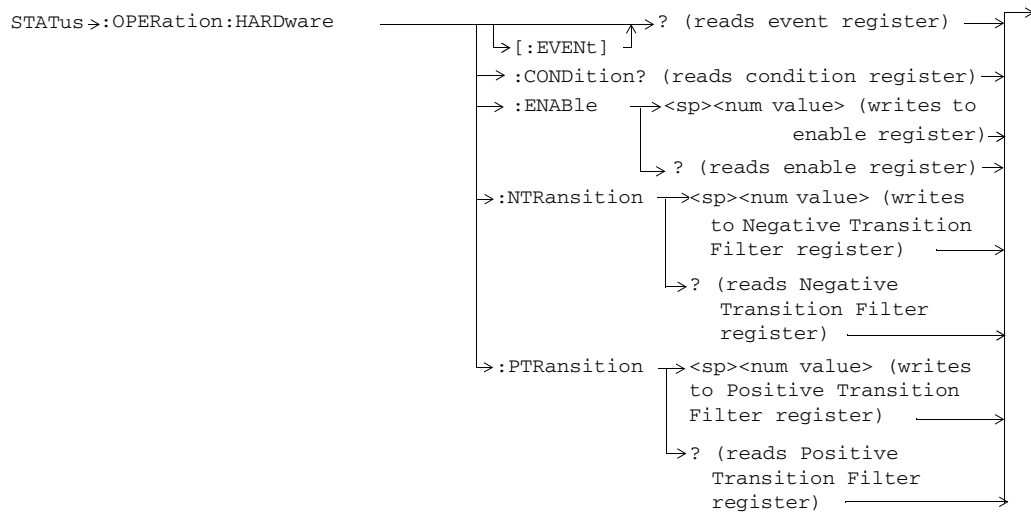
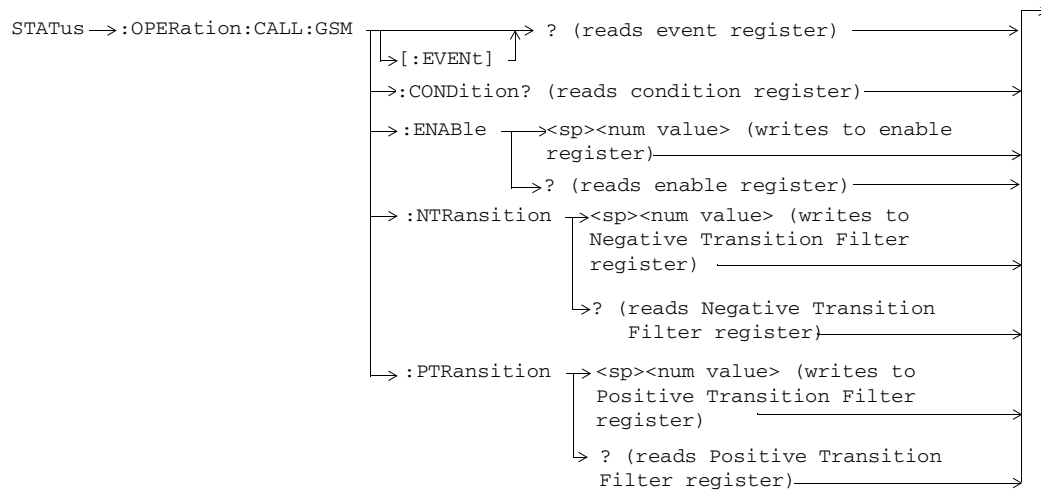
STATus:OPERation



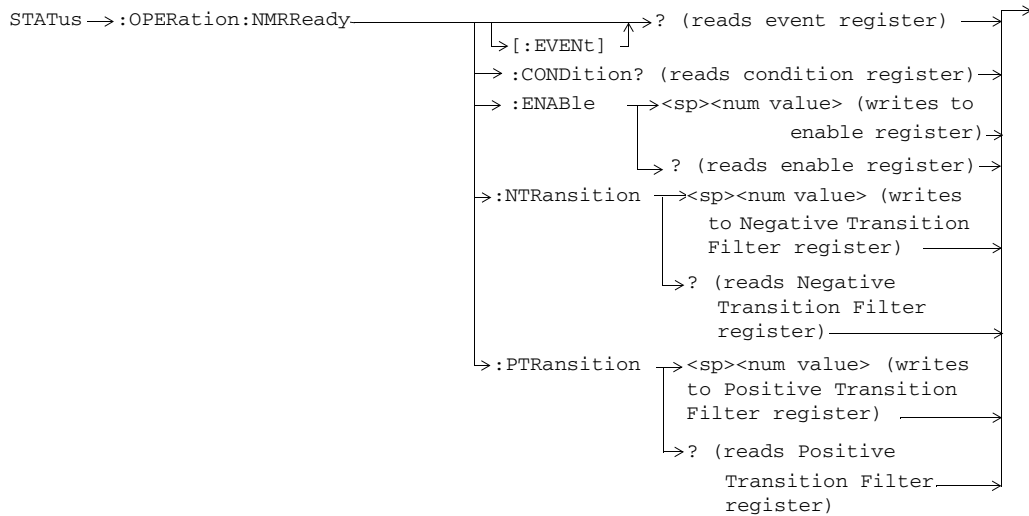
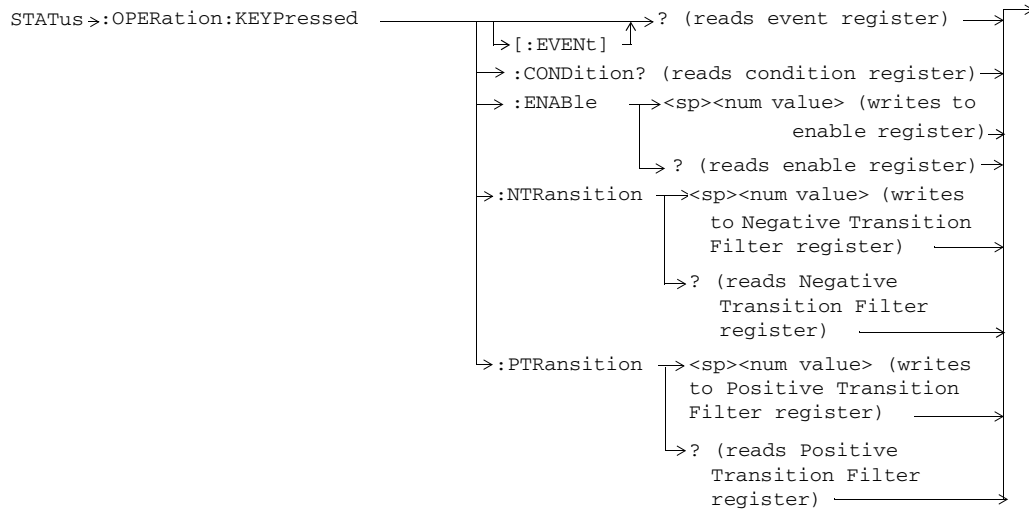
GPIB Syntax for E1968A, E6701C and E6704A



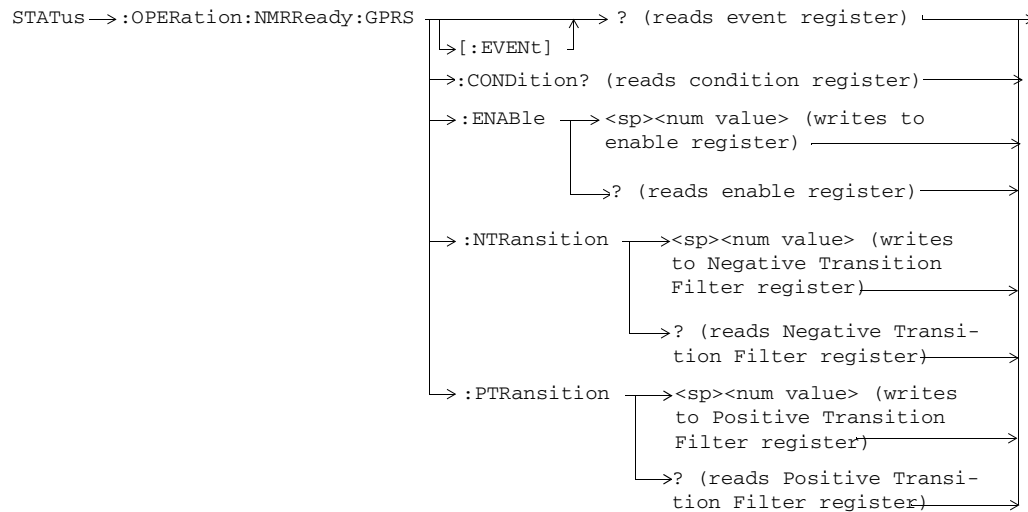
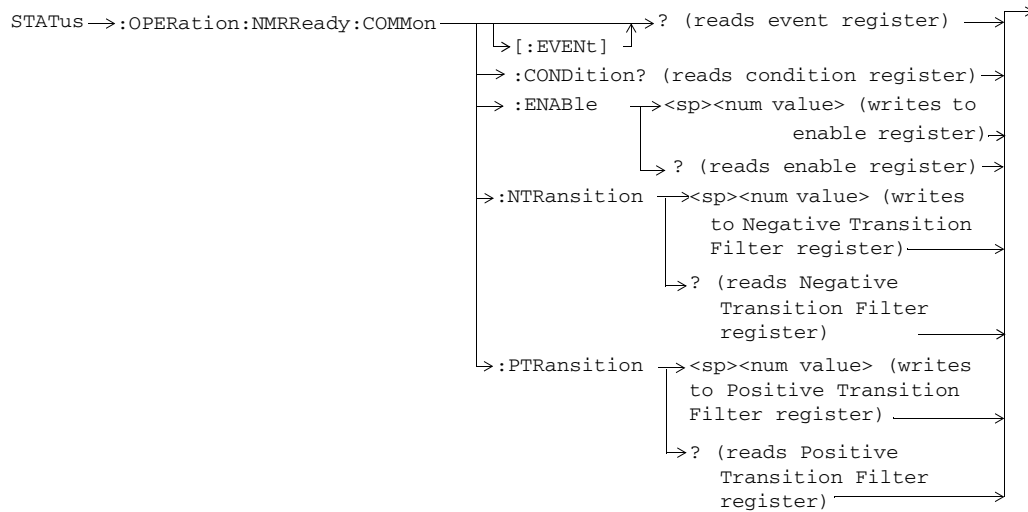
GPIB Syntax for E1968A, E6701C and E6704A



GPIB Syntax for E1968A, E6701C and E6704A

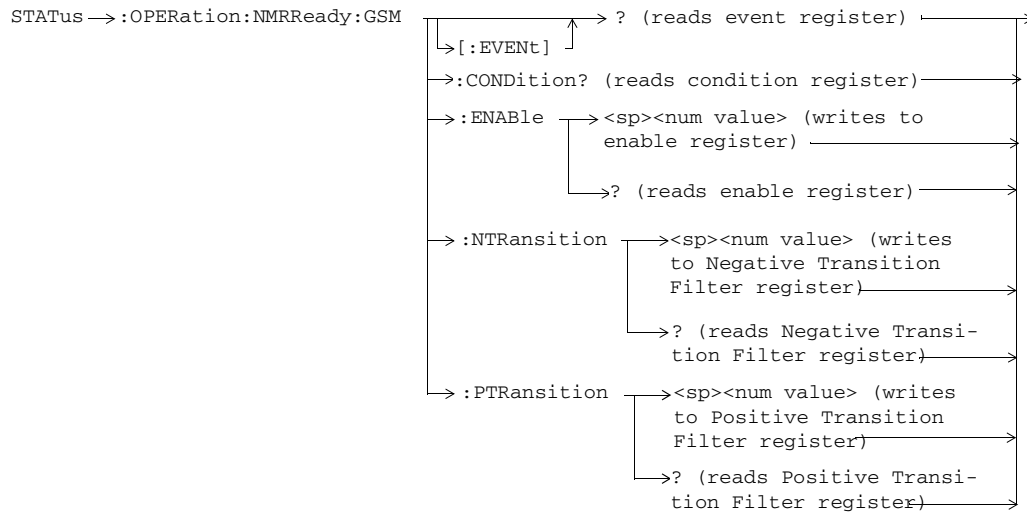


GPIB Syntax for E1968A, E6701C and E6704A



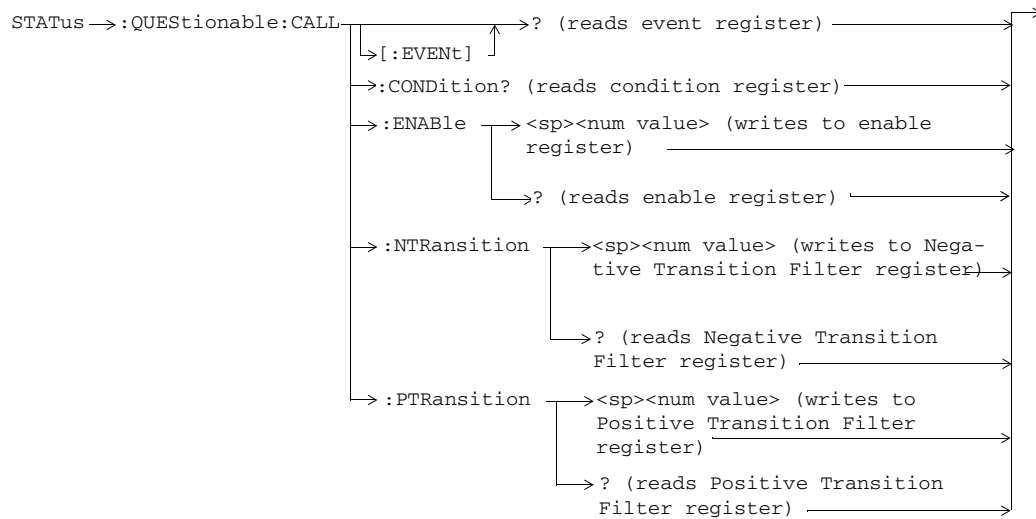
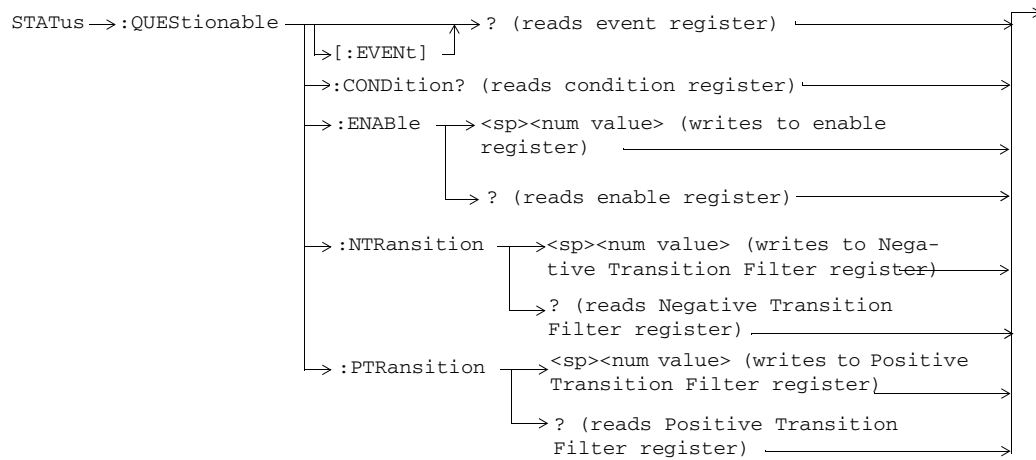
These commands are not applicable to GSM.

GPIB Syntax for E1968A, E6701C and E6704A

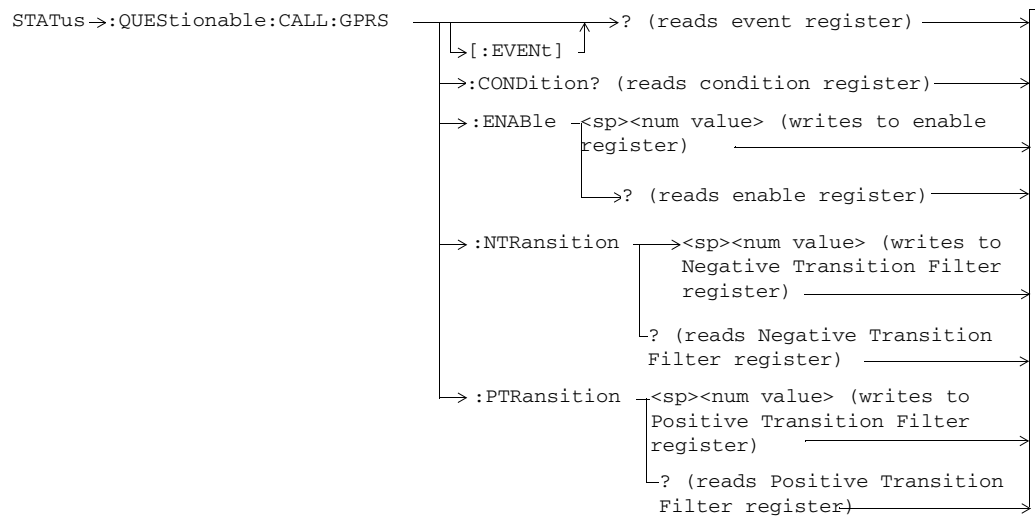
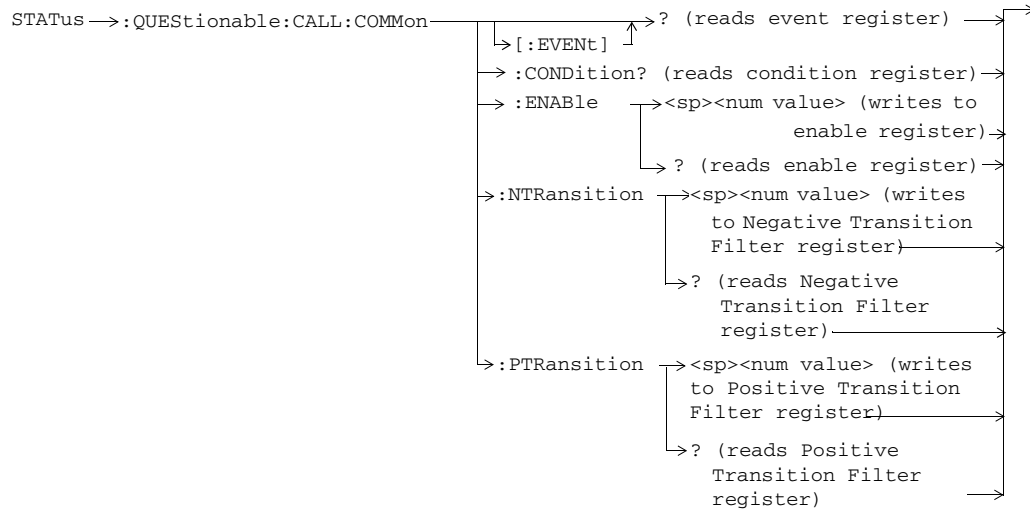


STATus:PRESet

STATus → :PRESet →

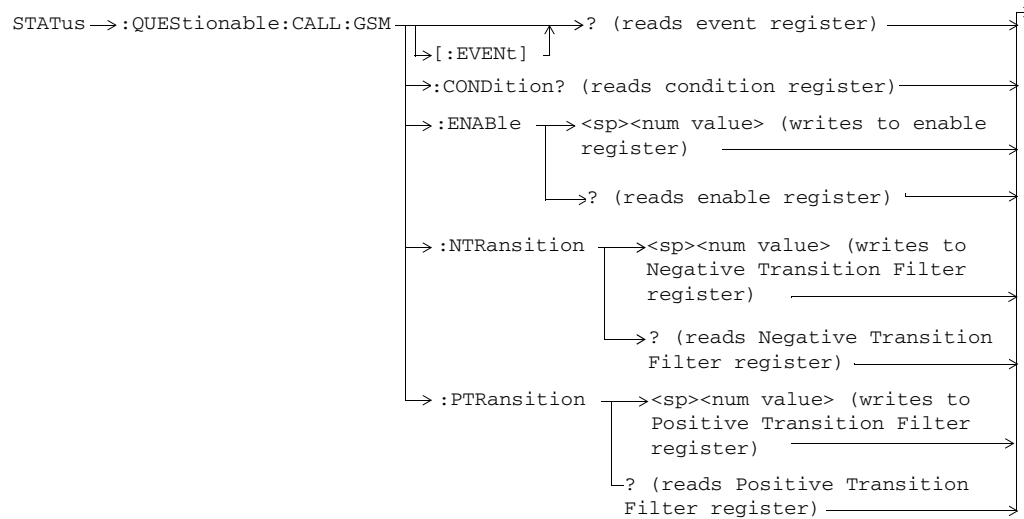
STATus:QUEStionable

GPIB Syntax for E1968A, E6701C and E6704A

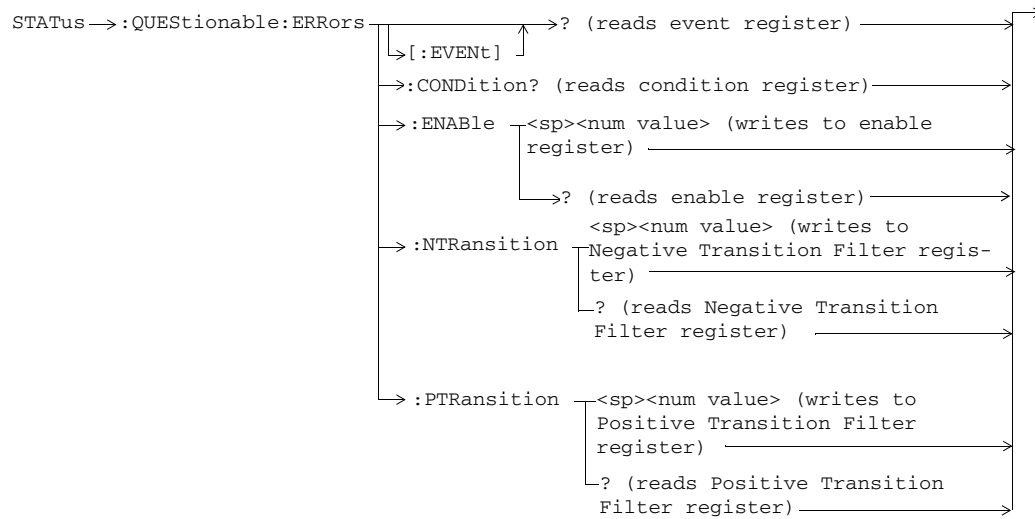


These commands are not applicable to GSM.

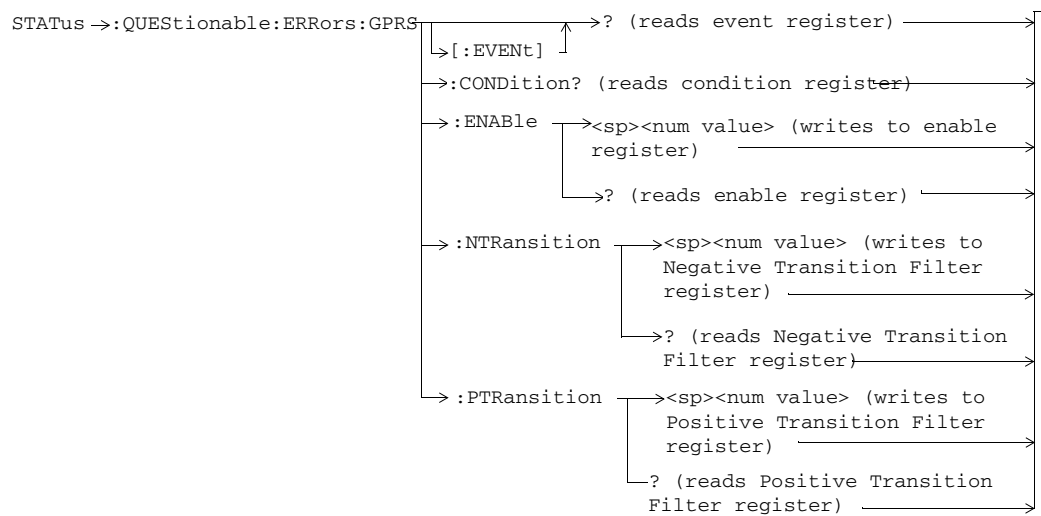
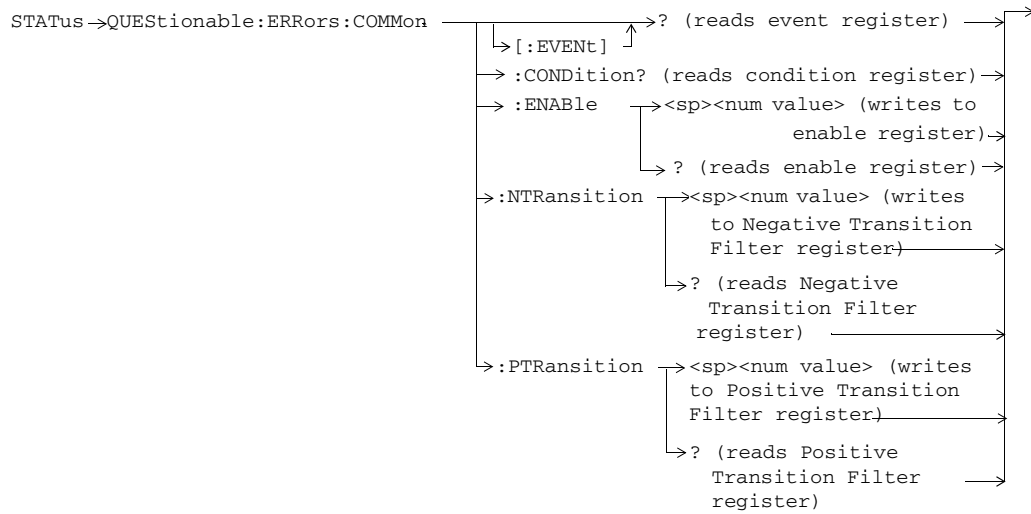
GPIB Syntax for E1968A, E6701C and E6704A



GPIB Syntax for E1968A, E6701C and E6704A

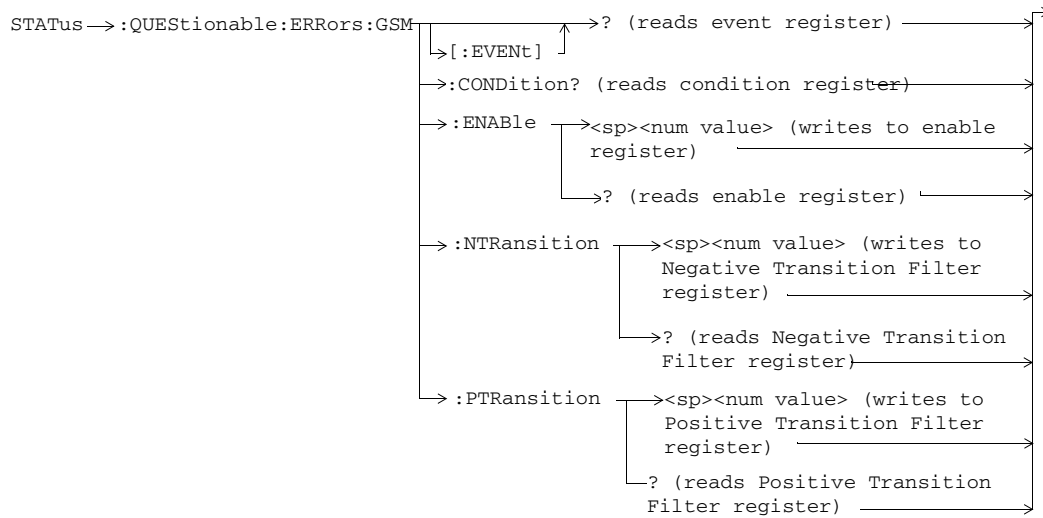


GPiB Syntax for E1968A, E6701C and E6704A



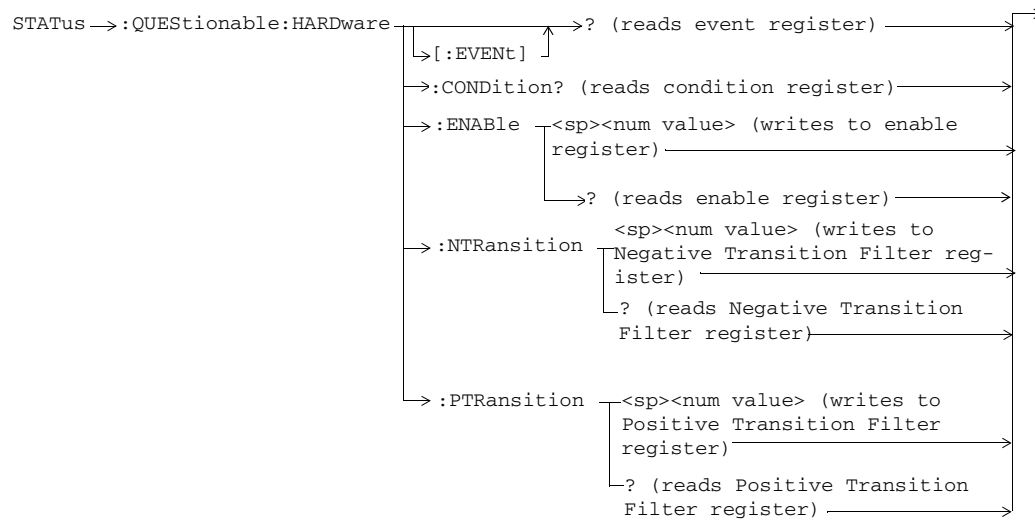
These commands are not applicable to GSM.

GPiB Syntax for E1968A, E6701C and E6704A



These commands are not applicable to GPRS.

GPIB Syntax for E1968A, E6701C and E6704A



Status Byte Register

***STB?**
 *STB? →

Standard Event Status Register

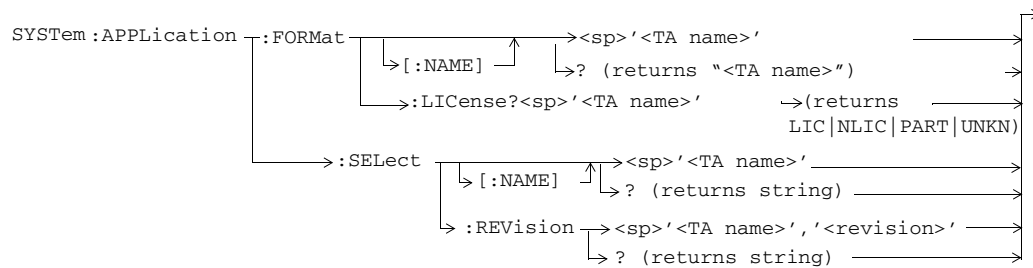
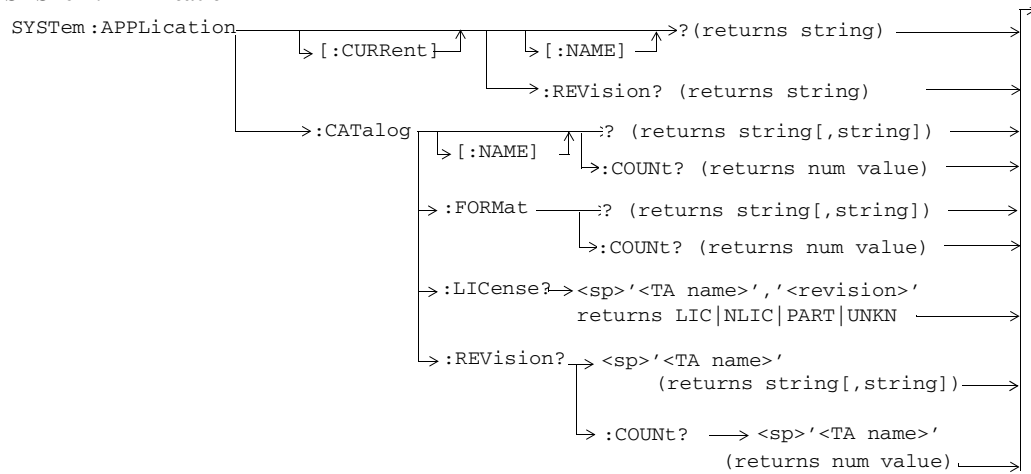
***ESR?**
 *ESR? →
Reads and clears the Std Event Status Register.

***ESE?**
 *ESE? →
Reads the Std Event Status Register Enable Register

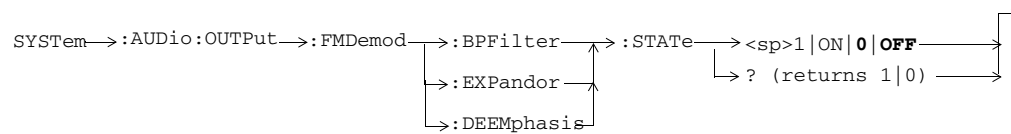
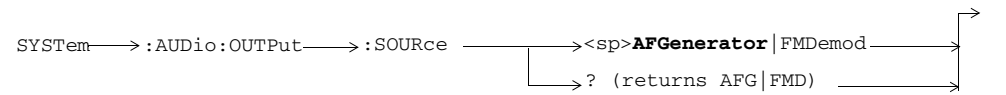
***ESE**
 *ESE →
Writes to the Std Event Status Register Enable Register

GPIB Syntax for E1968A, E6701C and E6704A

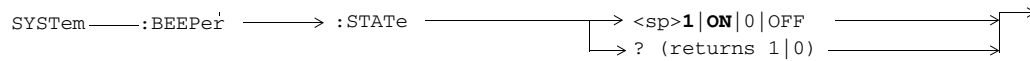
SYSTem:APPLication



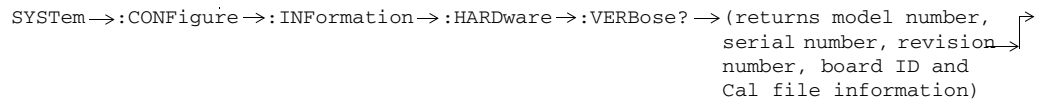
SYSTem:AUDio



SYSTem:BEEPer

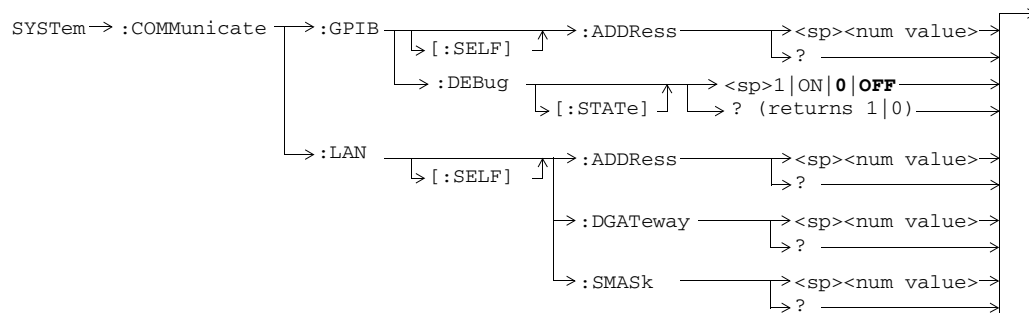


SYSTem:CONFiGure

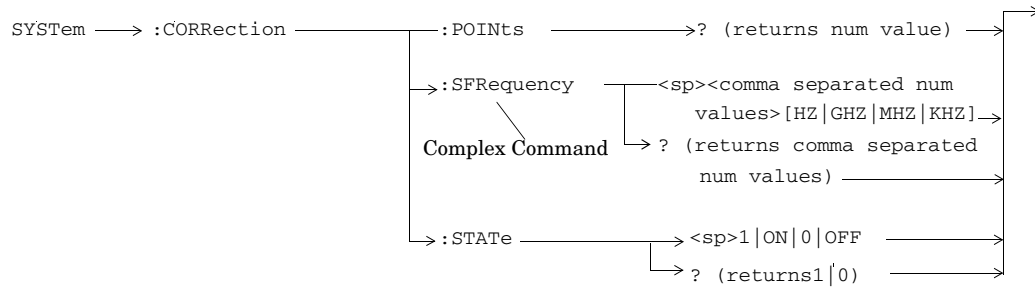
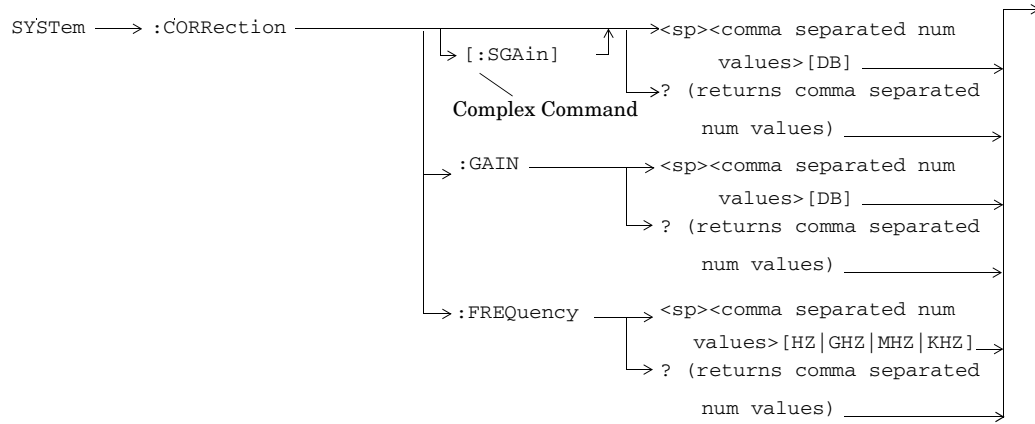


GPIB Syntax for E1968A, E6701C and E6704A

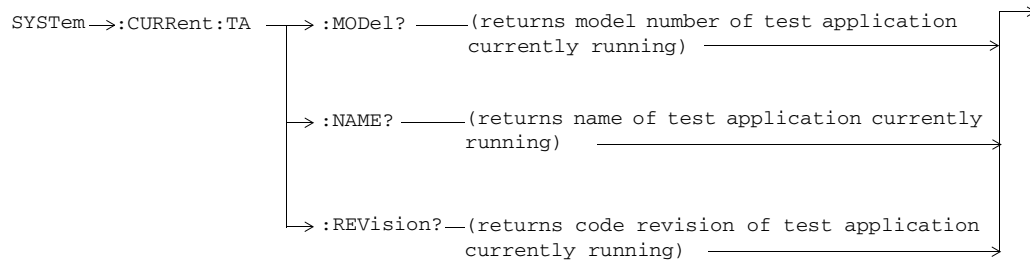
SYSTem:COMMunicate



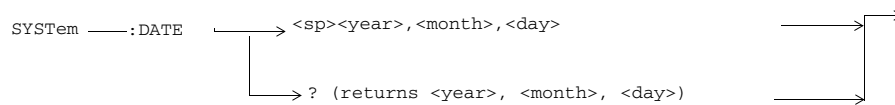
SYSTem:CORRection



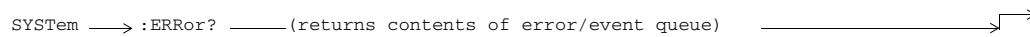
SYSTem:CURRent:TA



SYSTem:DATE

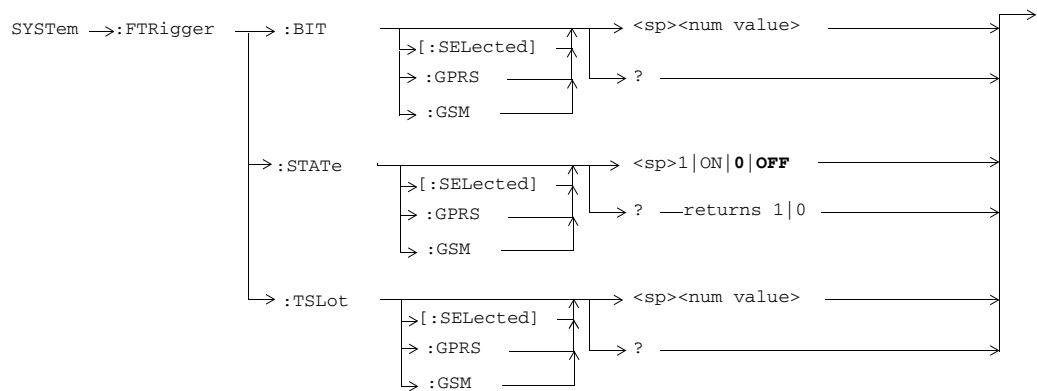


SYSTem:ERRor?

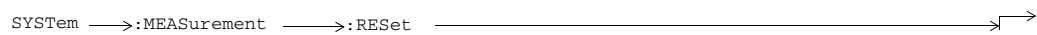


SYSTem:FTRigger

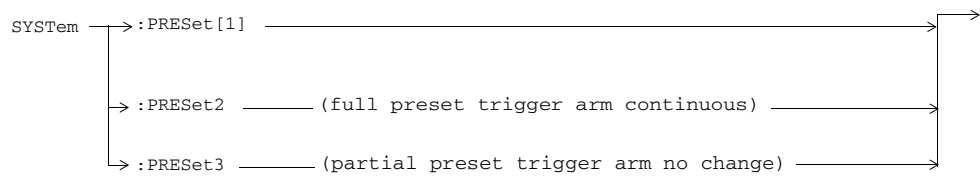
NOTE This command has been replaced by the command CALL:TRIGger[:OUTPut].



SYSTem:MEASurement

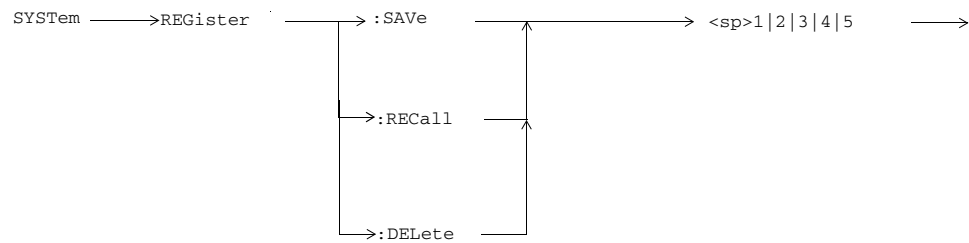


SYSTem:PRESet

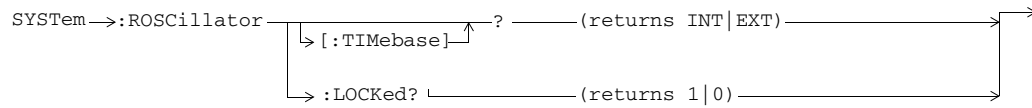


GPIB Syntax for E1968A, E6701C and E6704A

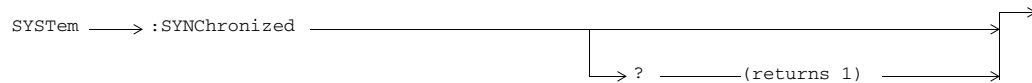
SYSTem:REGister



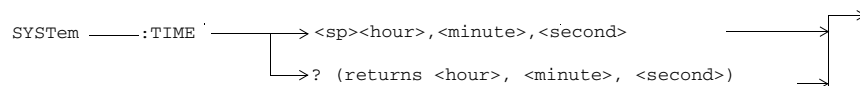
SYSTem:ROSCillator



SYSTem:SYNChronized



SYSTem:TIME



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

***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.

GPIB Syntax for E1968A, E6701C and E6704A

***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.

GPB Syntax for E1968A, E6701C and E6704A

Index

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

1. Find the field name on the Test Set's display.
2. Look up the name in the alphabetical listing.
3. Turn to the page indicated.

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