

Programming Compatibility Guide

Agilent Technologies E4428C/38C ESG Signal Generators

This guide applies to the following signal generator models:

E4428C ESG Analog Signal Generator

E4438C ESG Vector Signal Generator

Due to our continuing efforts to improve our products through firmware and hardware revisions, signal generator design and operation may vary from descriptions in this guide. We recommend that you use the latest revision of this guide to ensure you have up-to-date product information. Compare the print date of this guide (see bottom of page) with the latest revision, which can be downloaded from the following website:

<http://www.agilent.com/find/esg>



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1 Overview

Inside This Guide

This guide provides a comprehensive listing of SCPI commands and programming codes for signal generator models that are supported by the E4428C/38C. The following list shows the supported models along with the language type for each one:

E4428C/38C	SCPI commands
E44xxB	SCPI commands
8648A/B/C/D	SCPI commands
8656B	programming codes
8657A/B/D/J	programming codes

These commands and programming codes are separated into compatible and non-compatible sections. In most instances, the non-compatible section has the least number of commands/codes, thus providing a more time-efficient way of determining whether or not a command/code is supported by the E4428C/38C.

In some cases, SCPI commands are only partially supported. This usually occurs due to a variance in parameters between the E4428C/38C and other signal generator models. When this condition occurs, the SCPI command will appear in both the compatible and non-compatible sections showing the exact SCPI command syntax that is supported and unsupported.

In addition to providing the compatible command/code listing, this guide also provides you with E4428C/38C SCPI commands that lets you change the signal generator identification output (see [“:SYSTem:IDN” on page 3](#)), select a compatible programming language (see [“:SYSTem:LANGuage” on page 5](#)), and query the signal generator for errors (see [“:SYSTem:ERRor\[:NEXT\]” on page 5](#)).

Changing the Signal Generator Identification String

:SYSTem:IDN

Supported All

```
:SYSTem:IDN "<string>"
```

This ESG signal generator command modifies the identification string that the *IDN? query returns. Sending an empty string returns the *IDN? query output to its factory shipped setting. The maximum string length is 72 characters.

Modification of the *IDN? query output enables the ESG signal generator to identify itself as another signal generator when it is used as a backward compatible replacement. This modification of the identification string does not affect the display diagnostic information, which is shown by pressing the **Diagnostic Info** softkey.

Functional E4428C/38C SCPI Commands While in a Compatible Language Mode

The commands in this section are used for configuring the signal generator compatible programming language and for isolating problems.

:PRESet:LANGuage

Supported All

```
:SYSTem:PRESet:LANGuage "SCPI" | "COMP" | "NADC" | "PDC" | "PHS" | "8648"|"8662"|"8663"
:SYSTem:PRESet:LANGuage?
```

This command sets the remote language that is available when the signal generator is preset.

SCPI	This choice provides compatibility for SCPI commands.				
COMP	This choice provides compatibility for the 8656B, 8657A/B signal generator which is supported by using the GPIB interface.				
NADC	This choice provides compatibility for the 8657D NADC personality which is supported only through a GPIB interface (E4438C only).				
PDC	This choice provides compatibility for the 8657D PDC personality which is supported only through a GPIB interface (E4438C only).				
PHS	This choice provides compatibility for the 8657J PHS personality which is supported only through a GPIB interface (E4438C only).				
8648	This choice provides compatibility for the 8648A/B/C/D signal generator which is supported only through a GPIB interface.				
*RST	"SCPI"				
Key Entry	SCPI	8656B,8657A/B	8657D NADC	8657D PDC	8657J PHS
	8648A/B/C/D	8662A	8663A		

:SYSTem:LANGUage**Supported** All

```
:SYSTem:LANGUage "SCPI" | "COMP" | "NADC" | "PDC" | "PHS" | "8648"|"8662"|"8663"
:SYSTem:LANGUage?
```

This command sets the remote language for the signal generator.

The setting enabled by this command is not affected by signal generator power-on, preset, or *RST.

SCPI	This choice provides compatibility for SCPI commands.				
COMP	This choice provides compatibility for the 8656B, 8657A/B signal generator which is supported only through a GPIB interface.				
NADC	This choice provides compatibility for the 8657D NADC personality which is supported only through a GPIB interface (E4438C only).				
PDC	This choice provides compatibility for the 8657D PDC personality which is supported only through a GPIB interface (E4438C only).				
PHS	This choice provides compatibility for the 8657J PHS personality which is supported only through a GPIB interface (E4438C only).				
8648	This choice provides compatibility for the 8648A/B/C/D signal generator which is supported only through a GPIB interface.				
Key Entry	SCPI	8656B,8657A/B	8657D NADC	8657D PDC	8657J PHS
	8648A/B/C/D	8662A	8663A		

:SYSTem:ERRor[:NEXT]**Supported** All

```
:SYSTem:ERRor[:NEXT]?
```

This query returns the most recent error message from the signal generator error queue. If there are no error messages, the query returns the following output:

```
+0, "No error"
```

When there is more than one error message, the query will need to be sent for each message. Each error message is erased after being queried.

Key Entry **Error Info** **View Next Error Message**

Overview

Functional E4428C/38C SCPI Commands While in a Compatible Language Mode

2 E4428C/38C SCPI Commands

This chapter contains backward compatible commands that have either been replaced or deleted from the *E4428C/38C ESG Signal Generators SCPI Command Reference*.

Memory Subsystem (:MEMory)

:CATalog:CDMa

Supported E4438C with Option 401

:MEMory:CATalog:CDMa?

This command outputs a list of the arbitrary waveform CDMA files. The return data will be in the following form:

```
<mem used>,<mem free>{,"<file listing>"}
```

The signal generator will return the two memory usage parameters and as many file listings as there are files in the directory list. Each file listing parameter will be in the following form:

```
"<file name,file type,file size>"
```

Key Entry CDMA

Remarks Refer to “File Name Variables” in Volume 1 of the *SCPI Command Reference* for information on the file name syntax.

:DATA:PRAM

Supported E4438C with Option 001/601 or 002/602

:MEMory:DATA:PRAM?

This query indicates whether or not user-defined pattern RAM (PRAM) data is in memory. This command is compatible only with the “:DATA:PRAM:BLOCK” or “:DATA:PRAM:LIST” commands.

*RST 0

:DATA:PRAM:BLOCK

Supported E4438C with Option 001/601 or 002/602

:MEMory:DATA:PRAM:BLOCK <datablock>

This command downloads block-formatted data directly into pattern RAM (PRAM) memory.

Remarks This command was replaced by the DATA:PRAM:FILE:BLOCK command. Refer to the *E4428C/38C ESG Signal Generators SCPI Command Reference* for more information.

:DATA:PRAM:LIST

Supported E4438C with Option 001/601 or 002/602

:MEMory:DATA:PRAM:LIST <uint8>[, <uint8> , <...>]

This command downloads list-formatted data directly into pattern RAM (PRAM) memory.

<uint8> This variable is any of the valid 8-bit, unsigned integer values between 0 and 255.

[, <uint8> , <...>] This variable identifies the value of the second and subsequent 8-bit unsigned integer variables.

Range 0–255

Remarks This command was replaced by the DATA:PRAM:FILE:LIST command. Refer to the *E4428C/38C ESG Signal Generators SCPI Command Reference* for more information.

:DELeTe:CDMa

Supported E4438C with Option 401

:MEMory:DELeTe:CDMa

This command deletes all arbitrary waveform IS-95 CDMA files.

Key Entry Delete All ARB CDMA Files

Digital Modulation Subsystem (:SOURce)

:DM:EXTernal:ALC:BANDwidth | BWIDth

Supported E4438C

```
[ :SOURce ] :DM:EXTernal:ALC:BANDwidth | BWIDth NORMal | NARRow  
[ :SOURce ] :DM:EXTernal:ALC:BANDwidth | BWIDth?
```

This command sets the bandwidth of the automatic leveling control (ALC) loop. Use this command when the ALC is set to On. Refer to the “:ALC[:STATE]” command for selecting the mode.

NORMal This choice enables the signal generator to automatically select the ALC bandwidth for the current test conditions.

NARRow This choice sets the narrowest possible ALC bandwidth and is useful when an external I/Q source is connected.

***RST** NORM

Key Entry ALC BW Normal Narrow

Remarks This command is no longer supported and has been replaced by:
[:SOURce] :POWER:ALD:BANDwidth | BWIDth 100HZ | 1KHZ | 10KHZ and the
[:SOURce] :POWER:ALD:BANDwidth | BWIDth:AUTO ON | OFF | 1 | 0 commands.
The NORMal parameter is replaced by the AUTO parameter in the new command. The NARRow parameter is replaced by the 100HZ parameter in the new command.

:DM:IQADjustment:SKEW

Supported All

```
[ :SOURce ] :DM:IQADjustment:SKEW <val><unit>  
[ :SOURce ] :DM:IQADjustment:SKEW?
```

This command changes the input skew to the I and Q paths. Equal and opposite skew is applied to both paths (RF Output path and I/Q output paths) simultaneously. A positive value delays the I signal relative to the Q signal, and a negative value delays the Q signal relative to the I signal.

If the internal I/Q correction path is set to RF or BB the I/Q signals are already optimized and adjusting I/Q skew would add an impairment to the signals. If the internal I/Q correction path is set to Off, then adjusting the I/Q skew could improve the I/Q signals. The I/Q skew adjustment cannot be performed on the MSK, FSK, and C4FM constant envelope modulations.

I/Q skew adjustments are preserved when the instrument state is saved. I/Q skew adjustment are also preserved when instrument settings are changed. If the signal generator is calibrated, the skew adjustments are added to the calibration value used for the given signal generator state. If the signal generator is uncalibrated, the skew adjustments re applied directly.

Using I/Q skew while playing a user FIR file greater than 32 symbols will generate an error.

The variable <val> is expressed in units of picoseconds or nanoseconds.

***RST** +0.00000000E+000

Range -5.0 to 5.0

Key Entry I/Q Skew

Remarks This command is no longer supported and has been replaced by:
[:SOURce]:DM:IQADjustment:SKEW[:DELay] <val>

Dual ARB Subsystem

:TRIGger[:SOURce]:EXternal:DELay:STATE

Supported E4438C with Option 001/601 or 002/602

[:SOURce] :RADio:ARB:TRIGger [:SOURce] :EXternal:DELay:STATE ON|OFF|1|0

[:SOURce] :RADio:ARB:TRIGger [:SOURce] :EXternal:DELay:STATE?

This command enables or disables the operating state of the external trigger delay function.

***RST** 0

Key Entry Ext Delay Off On

3 ESG E44xxB Commands

System Function Commands

IEEE Common Commands

Compatible Commands

- *CLS
- *ESE <data>
- *ESE?
- *ESR?
- *IDN?
- *OPC
- *OPC?
- *RCL <reg_num>
- *RST
- *SAV <reg_num>
- *SRE <data>
- *SRE?
- *STB?
- *TRG
- *TST?
- *WAI

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Calibration Subsystem

Compatible Commands

- :CALibration:DCFM
- :CALibration:IQ

```
:CALibration:IQ:DEFault
:CALibration:IQ:FULL
:CALibration:IQ:START <val>
:CALibration:IQ:START?
:CALibration:IQ:STOP <val>
:CALibration:IQ:STOP?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Communication Subsystem

Compatible Commands

```
:SYSTem:COMMunicate:GPIB:ADDRes <number>
:SYSTem:COMMunicate:GPIB:ADDRes?

:SYSTem:COMMunicate:SERial:BAUD <number>
:SYSTem:COMMunicate:SERial:BAUD?

:SYSTem:COMMunicate:SERial:ECHO ON|OFF
:SYSTem:COMMunicate:SERial:ECHO?

:SYSTem:COMMunicate:SERial:RESet

:SYSTem:COMMunicate:SERial:TOUT <val>
:SYSTem:COMMunicate:SERial:TOUT?
```

Non-Compatible Commands

```
:SYSTem:COMMunicate:SERial:CONTrol:RTS ON|OFF|IBFull|RFR
:SYSTem:COMMunicate:SERial:CONTrol:RTS?
```

Diagnostic Subsystem

Compatible Commands

```
:DIAGNostic[:CPU]:INFORMation:BOARDs?
:DIAGNostic[:CPU]:INFORMation:CCOUNT:ATTenuator?
:DIAGNostic[:CPU]:INFORMation:CCOUNT:PON?
:DIAGNostic[:CPU]:INFORMation:CCOUNT:PROTection?
```

ESG E44xxB Commands

System Function Commands

```
:DIAGnostic[:CPU]:INfOrMation:DISPlay:OTIME?  
:DIAGnostic[:CPU]:INfOrMation:LIDN?  
:DIAGnostic[:CPU]:INfOrMation:OPTions?  
:DIAGnostic[:CPU]:INfOrMation:OPTions:DETail?  
:DIAGnostic[:CPU]:INfOrMation:OTIME?  
:DIAGnostic[:CPU]:INfOrMation:SDATE?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Display Subsystem

Compatible Commands

```
:DISPlay:BRIGhtness <val>  
:DISPlay:BRIGhtness?  
:DISPlay:CONTrast <val>  
:DISPlay:CONTrast?  
:DISPlay:INVerse ON|OFF|1|0  
:DISPlay:INVerse?  
:DISPlay:REMOte ON|OFF|1|0  
:DISPlay:REMOte?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Memory Subsystem

Compatible Commands

```
:MEMory:CATalog:BINary?  
:MEMory:CATalog:BIT?  
:MEMory:CATalog:CDMa?  
:MEMory:CATalog:DMOD?  
:MEMory:CATalog:DWCDma?
```

```

:MEMory:CATalog:FCDMa?
:MEMory:CATalog:FIR?
:MEMory:CATalog:FSK?
:MEMory:CATalog:FWCDma?
:MEMory:CATalog:IQ?
:MEMory:CATalog:LIST?
:MEMory:CATalog:MCDMa?
:MEMory:CATalog:MMod?
:MEMory:CATalog:MDWCdma?
:MEMory:CATalog:MFCdma?
:MEMory:CATalog:MFWCdma?
:MEMory:CATalog:MTONE?
:MEMory:CATalog:RCDMa?
:MEMory:CATalog:RWCDma?
:MEMory:CATalog:SEQ?
:MEMory:CATalog:SHAPE?
:MEMory:CATalog:STATE?
:MEMory:CATalog:UWCDma?
:MEMory:CATalog:WCDMa?
:MEMory:CATalog[:ALL]?
:MEMory:COPY[:NAME] "<file name>","<file name>"
:MEMory:DATA "<file name>",<datablock>
:MEMory:DATA? "<file name>"
:MEMory:DATA:BIT "<file name>",<bit_count>,<datablock>
:MEMory:DATA:BIT? "<file name>"
:MEMory:DATA:FIR "<file name>",<osr>,<coefficient>{,<coefficient>}
:MEMory:DATA:FIR? "<file name>"
:MEMory:DATA:FSK "<file name>",<num_states>,<f0>,<f1>,...<f(n)>
[,<diff_state>,<num_diff_states>,<diff0>,<diff1>,...<diff(n)>]

```

ESG E44xxB Commands

System Function Commands

```
:MEMory:DATA:FSK? "<file name>"
:MEMory:DATA:IQ "<file name>",<offsetQ>,<num_states>,<i0>,<q0>,<i1>,<q1>,...<i(n),q(n)>[,<diff_state>,<num_diff_states>,<diff0>,<diff1>,...<diff(n)>]
:MEMory:DATA:IQ? "<file name>"
:MEMory:DATA:PRAM?
:MEMory:DATA:PRAM:BLOCK <datablock>
:MEMory:DATA:PRAM:LIST <uint8>{,<uint8>,<...>}
:MEMory:DATA:SHAPE "<file name>",<num_rise_points>,<rp0>,<rp1>,...<rp(n)>,<num_fall_points>,<fp0>,<fp1>,...<fp(n)>
:MEMory:DATA:SHAPE? "<file name>"
:MEMory:DELEte:ALL
:MEMory:DELEte:BINary
:MEMory:DELEte:BIT
:MEMory:DELEte:CDMa
:MEMory:DELEte:DMOD
:MEMory:DELEte:DWCDma
:MEMory:DELEte:FCDMa
:MEMory:DELEte:FIR
:MEMory:DELEte:FSK
:MEMory:DELEte:FWCDma
:MEMory:DELEte:IQ
:MEMory:DELEte:LIST
:MEMory:DELEte:MCDMa
:MEMory:DELEte:MMod
:MEMory:DELEte:MDWCdma
:MEMory:DELEte:MFCdma
:MEMory:DELEte:MFWCdma
:MEMory:DELEte:MTONE
```

```
:MEMory:DELeTe:RCDma
:MEMory:DELeTe:RWCDma
:MEMory:DELeTe:SEQ
:MEMory:DELeTe:SHAPE
:MEMory:DELeTe:STATE
:MEMory:DELeTe:UWCDma
:MEMory:DELeTe:WCDMa
:MEMory:DELeTe[:NAME] "<file name>"
:MEMory:FREE[:ALL]?
:MEMory:LOAD:LIST "<file name>"
:MEMory:MOVE <src_file>,<dest_file>
:MEMory:STATE:COMMENT <reg_num>,<seq_num>,"<comment>"
:MEMory:STATE:COMMENT? <reg_num>,<seq_num>
:MEMory:STORE:LIST "<file name>"
:MMEMory:CATalog? "<msus>"
:MMEMory:COPY "<file name>","<file name>"
:MMEMory:DATA "<file name>",<datablock>
:MMEMory:DATA? "<file name>"
:MMEMory:DELeTe[:NAME] "<file name>",<msus>"
:MMEMory:LOAD:ARB:ALL
:MMEMory:LOAD:LIST "<file name>"
:MMEMory:MOVE <src_file>,<dest_file>
:MMEMory:STORE:ARB:ALL
:MMEMory:STORE:LIST "<file name>"
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Output Subsystem

Compatible Commands

```
:OUTPut:MODulation[:STATe] ON|OFF|1|0  
:OUTPut:MODulation[:STATe]?  
  
:OUTPut:PROtection:CLEar  
  
:OUTPut:PROtection:TRIPped?  
  
:OUTPut[:STATe] ON|OFF|1|0  
:OUTPut[:STATe]?
```

Non-Compatible Commands

```
:OUTPut:PROtection:MODE "NORMAL"|"8648"  
:OUTPut:PROtection:MODE?
```

Route Subsystem

Compatible Commands

```
:ROUte:HARDware:DGENERator:INPut:BPOLarity POSitive|NEGative  
:ROUte:HARDware:DGENERator:INPut:BPOLarity?  
  
:ROUte:HARDware:DGENERator:INPut:CPOLarity POSitive|NEGative  
:ROUte:HARDware:DGENERator:INPut:CPOLarity?  
  
:ROUte:HARDware:DGENERator:INPut:DPOLarity POSitive|NEGative  
:ROUte:HARDware:DGENERator:INPut:DPOLarity?  
  
:ROUte:HARDware:DGENERator:INPut:SPOLarity POSitive|NEGative  
:ROUte:HARDware:DGENERator:INPut:SPOLarity?  
  
:ROUte:HARDware:DGENERator:INPut:TPOLarity POSitive|NEGative  
:ROUte:HARDware:DGENERator:INPut:TPOLarity?  
  
:ROUte:HARDware:DGENERator:IPOLarity:BGATe POSitive|NEGative  
:ROUte:HARDware:DGENERator:IPOLarity:BGATe?  
  
:ROUte:HARDware:DGENERator:IPOLarity:CLOCK POSitive|NEGative  
:ROUte:HARDware:DGENERator:IPOLarity:CLOCK?  
  
:ROUte:HARDware:DGENERator:IPOLarity:DATA POSitive|NEGative  
:ROUte:HARDware:DGENERator:IPOLarity:DATA?
```

```
:ROUTE:HARDware:DGENERator:IPOLarity:SSYNc POSitive|NEGative
:ROUTE:HARDware:DGENERator:IPOLarity:SSYNc?

:ROUTE:HARDware:DGENERator:IPOLarity:TRIGger POSitive|NEGative
:ROUTE:HARDware:DGENERator:IPOLarity:TRIGger?

:ROUTE:HARDware:DGENERator:OPOLarity:CLOCK POSitive|NEGative
:ROUTE:HARDware:DGENERator:OPOLarity:CLOCK?

:ROUTE:HARDware:DGENERator:OPOLarity:DATA POSitive|NEGative
:ROUTE:HARDware:DGENERator:OPOLarity:DATA?

:ROUTE:HARDware:DGENERator:OPOLarity:EVENT[1]|2|3|4 POSitive|NEGative
:ROUTE:HARDware:DGENERator:OPOLarity:EVENT[1]|2|3|4?

:ROUTE:HARDware:DGENERator:OPOLarity:SSYNc POSitive|NEGative
:ROUTE:HARDware:DGENERator:OPOLarity:SSYNc?

:ROUTE:HARDware:DGENERator:OUTPut:CPOLarity POSitive|NEGative
:ROUTE:HARDware:DGENERator:OUTPut:CPOLarity?

:ROUTE:HARDware:DGENERator:OUTPut:DCS[:STATe] ON|OFF|1|0
:ROUTE:HARDware:DGENERator:OUTPut:DCS[:STATe]?

:ROUTE:HARDware:DGENERator:OUTPut:DPOLarity POSitive|NEGative
:ROUTE:HARDware:DGENERator:OUTPut:DPOLarity?

:ROUTE:HARDware:DGENERator:OUTPut:EPOL[1]|2|3|4 POSitive|NEGative
:ROUTE:HARDware:DGENERator:OUTPut:EPOL[1]|2|3|4?

:ROUTE:HARDware:DGENERator:OUTPut:SPOLarity POSitive|NEGative
:ROUTE:HARDware:DGENERator:OUTPut:SPOLarity?
```

Non-Compatible Commands

```
:ROUTE:HARDware:DGENERator:OPOLarity:EVEN[1]|2 POSitive|NEGative
:ROUTE:HARDware:DGENERator:OPOLarity:EVEN[1]|2?

:ROUTE:HARDware:DGENERator:OUTPut:EPOL[1]|2 POSitive|NEGative
:ROUTE:HARDware:DGENERator:OUTPut:EPOL[1]|2?
```

Status Subsystem

Compatible Commands

:STATus:OPERation:CONDition?
:STATus:OPERation:ENABle <val>
:STATus:OPERation:ENABle?

:STATus:OPERation:NTRansition <val>
:STATus:OPERation:NTRansition?

:STATus:OPERation:PTRansition <val>
:STATus:OPERation:PTRansition?

:STATus:OPERation[:EVENT]?

:STATus:PRESet

:STATus:QUEStionable:BERT:CONDition?
:STATus:QUEStionable:BERT:ENABle <val>
:STATus:QUEStionable:BERT:ENABle?

:STATus:QUEStionable:BERT:NTRansition <val>
:STATus:QUEStionable:BERT:NTRansition?

:STATus:QUEStionable:BERT:PTRansition <val>
:STATus:QUEStionable:BERT:PTRansition?

:STATus:QUEStionable:BERT[:EVENT]?

:STATus:QUEStionable:CALibration:CONDition?
:STATus:QUEStionable:CALibration:ENABle <val>
:STATus:QUEStionable:CALibration:ENABle?

:STATus:QUEStionable:CALibration:NTRansition <val>
:STATus:QUEStionable:CALibration:NTRansition?

:STATus:QUEStionable:CALibration:PTRansition <val>
:STATus:QUEStionable:CALibration:PTRansition?

:STATus:QUEStionable:CALibration[:EVENT]?

:STATus:QUEStionable:CONDition?
:STATus:QUEStionable:ENABle <val>
:STATus:QUEStionable:ENABle?

:STATus:QUEStionable:FREQuency:CONDition?

```
:STATus:QUEStionable:FREQuency:ENABle <val>
:STATus:QUEStionable:FREQuency:ENABle?

:STATus:QUEStionable:FREQuency:NTRansition <val>
:STATus:QUEStionable:FREQuency:NTRansition?

:STATus:QUEStionable:FREQuency:PTRansition <val>
:STATus:QUEStionable:FREQuency:PTRansition?

:STATus:QUEStionable:FREQuency[:EVENT]?

:STATus:QUEStionable:MODulation:CONDition?

:STATus:QUEStionable:MODulation:ENABle <val>
:STATus:QUEStionable:MODulation:ENABle?

:STATus:QUEStionable:MODulation:NTRansition <val>
:STATus:QUEStionable:MODulation:NTRansition?

:STATus:QUEStionable:MODulation:PTRansition <val>
:STATus:QUEStionable:MODulation:PTRansition?

:STATus:QUEStionable:MODulation[:EVENT]?

:STATus:QUEStionable:NTRansition <val>
:STATus:QUEStionable:NTRansition?

:STATus:QUEStionable:POWER:CONDition?

:STATus:QUEStionable:POWER:ENABle <val>
:STATus:QUEStionable:POWER:ENABle?

:STATus:QUEStionable:POWER:NTRansition <val>
:STATus:QUEStionable:POWER:NTRansition?

:STATus:QUEStionable:POWER:PTRansition <val>
:STATus:QUEStionable:POWER:PTRansition?

:STATus:QUEStionable:POWER[:EVENT]?

:STATus:QUEStionable:PTRansition <val>
:STATus:QUEStionable:PTRansition?

:STATus:QUEStionable[:EVENT]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

System Subsystem

Compatible Commands

```
:SYSTem:CAPability?  
:SYSTem:ERRor[:NEXT]?  
:SYSTem:HELP:MODE SINGLE|CONTInuous  
:SYSTem:HELP:MODE?  
:SYSTem:LANGUage "SCPI"|"COMP"|"NADC"|"PDC"|"PHS"|"8648"  
:SYSTem:LANGUage?  
:SYSTem:PON:TYPE PRESet|LAST  
:SYSTem:PON:TYPE?  
:SYSTem:PRESet  
:SYSTem:PRESet:ALL  
:SYSTem:PRESet:LANGUage "SCPI"|"COMP"|"NADC"|"PDC"|"PHS"|"8648"  
:SYSTem:PRESet:LANGUage?  
:SYSTem:PRESet:PERSistent  
:SYSTem:PRESet:PN9 NORMAl|QUICK  
:SYSTem:PRESet:PN9?  
:SYSTem:PRESet:TYPE NORMAl|USER  
:SYSTem:PRESet:TYPE?  
:SYSTem:PRESet[:USER]:SAVE  
:SYSTem:SSAVer:DELay <val>  
:SYSTem:SSAVer:DELay?  
:SYSTem:SSAVer:MODE LIGHT|TEXT  
:SYSTem:SSAVer:MODE?  
:SYSTem:SSAVer:STATe ON|OFF  
:SYSTem:SSAVer:STATe?  
:SYSTem:VERSion?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Trigger Subsystem

Compatible Commands

```
:ABORT  
:INITiate:CONTinuous[:ALL] ON|OFF|1|0  
:INITiate:CONTinuous[:ALL]?  
:INITiate[:IMMediate][:ALL]  
:TRIGger:OUTPut:POLarity POSitive|NEGative  
:TRIGger:OUTPut:POLarity?  
:TRIGger[:SEQuence]:SLOPe POSitive|NEGative  
:TRIGger[:SEQuence]:SLOPe?  
:TRIGger[:SEQuence]:SOURce BUS|IMMediate|EXTernal|KEY  
:TRIGger[:SEQuence]:SOURce?  
:TRIGger[:SEQuence][:IMMediate]
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Unit Subsystem

Compatible Commands

```
:UNIT:POWeR DBM|DBUV|DBUVEMF|V|VEMF  
:UNIT:POWeR?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Analog Function Commands

Amplitude Modulation Subsystem

Compatible Commands

```
[ :SOURce ] : AM : WIDeband : STATE ON | OFF | 1 | 0
[ :SOURce ] : AM : WIDeband : STATE?

[ :SOURce ] : AM [ 1 ] | 2 : EXTeRnal [ 1 ] | 2 : COUPling AC | DC
[ :SOURce ] : AM [ 1 ] | 2 : EXTeRnal [ 1 ] | 2 : COUPling?

[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FREQuency <val><unit>
[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FREQuency?

[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FREQuency : ALTeRnate <val><unit>
[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FREQuency : ALTeRnate?

[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FREQuency : ALTeRnate : AMPLitude :
PERCent <val><unit>
[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FREQuency : ALTeRnate : AMPLitude : PERCent?

[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FUNCTion : SHAPE <enum>
[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : FUNCTion : SHAPE?

[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : SWEep : TIME <val><unit>
[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : SWEep : TIME?

[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : SWEep : TRIGger <enum>
[ :SOURce ] : AM [ 1 ] | 2 : INTeRnal [ 1 ] : SWEep : TRIGger?

[ :SOURce ] : AM [ 1 ] | 2 : SOURce INT [ 1 ] | EXT1 | EXT2
[ :SOURce ] : AM [ 1 ] | 2 : SOURce?

[ :SOURce ] : AM [ 1 ] | 2 : STATE ON | OFF | 1 | 0
[ :SOURce ] : AM [ 1 ] | 2 : STATE?

[ :SOURce ] : AM [ 1 ] | 2 [ : DEPTH ] <val><unit>
[ :SOURce ] : AM [ 1 ] | 2 [ : DEPTH ]?

[ :SOURce ] : AM [ 1 ] | 2 [ : DEPTH ] : TRACk ON | OFF | 1 | 0
[ :SOURce ] : AM [ 1 ] | 2 [ : DEPTH ] : TRACk?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Frequency Subsystem

Compatible Commands

```
[ :SOURce ]:FREQuency:FIXed <val><unit>
[ :SOURce ]:FREQuency:FIXed?

[ :SOURce ]:FREQuency:MODE CW|FIXed|LIST
[ :SOURce ]:FREQuency:MODE?

[ :SOURce ]:FREQuency:MULTiplier <val>
[ :SOURce ]:FREQuency:MULTiplier?

[ :SOURce ]:FREQuency:OFFSet <val><unit>
[ :SOURce ]:FREQuency:OFFSet?

[ :SOURce ]:FREQuency:REFerence <val><unit>
[ :SOURce ]:FREQuency:REFerence?

[ :SOURce ]:FREQuency:REFerence:STATe ON|OFF|1|0
[ :SOURce ]:FREQuency:REFerence:STATe?

[ :SOURce ]:FREQuency:STARt <val><unit>
[ :SOURce ]:FREQuency:STARt?

[ :SOURce ]:FREQuency:STOP <val><unit>
[ :SOURce ]:FREQuency:STOP?

[ :SOURce ]:FREQuency:SYNThesis <val>
[ :SOURce ]:FREQuency:SYNThesis?

[ :SOURce ]:FREQuency[:CW] <val><unit>
[ :SOURce ]:FREQuency[:CW]?

[ :SOURce ]:PHASe:REFerence

[ :SOURce ]:PHASe[:ADJust] <val><unit>
[ :SOURce ]:PHASe[:ADJust]?

[ :SOURce ]:ROSCillator:SOURce?

[ :SOURce ]:ROSCillator:SOURce:AUTO ON|OFF|1|0
[ :SOURce ]:ROSCillator:SOURce:AUTO?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Frequency Modulation Subsystem

Compatible Commands

```
[ :SOURce]:FM[1]|2:EXTernal[1]|2:COUpling AC|DC  
[ :SOURce]:FM[1]|2:EXTernal[1]|2:COUpling?  
  
[ :SOURce]:FM[1]|2:INTernal[1]:FREQuency <val><unit>  
[ :SOURce]:FM[1]|2:INTernal[1]:FREQuency?  
  
[ :SOURce]:FM[1]|2:INTernal[1]:FREQuency:ALTernate <val><unit>  
[ :SOURce]:FM[1]|2:INTernal[1]:FREQuency:ALTernate?  
  
[ :SOURce]:FM[1]|2:INTernal[1]:FREQuency:ALTernate:AMPLitude:  
PERCent <val><unit>  
[ :SOURce]:FM[1]|2:INTernal[1]:FREQuency:ALTernate:AMPLitude:PERCent?  
  
[ :SOURce]:FM[1]|2:INTernal[1]:FUNction:SHAPE SINE|TRIangle|SQUare|RAMP|  
NOISe|DUALsine|SWEPTsine  
[ :SOURce]:FM[1]|2:INTernal[1]:FUNction:SHAPE?  
  
[ :SOURce]:FM[1]|2:INTernal[1]:SWEep:TIME <val><unit>  
[ :SOURce]:FM[1]|2:INTernal[1]:SWEep:TIME?  
  
[ :SOURce]:FM[1]|2:INTernal[1]:SWEep:TRIGger IMMEDIATE|KEY|EXTernal|BUS  
[ :SOURce]:FM[1]|2:INTernal[1]:SWEep:TRIGger?  
  
[ :SOURce]:FM[1]|2:SOURce INT[1]|EXT[1]|EXT2  
[ :SOURce]:FM[1]|2:SOURce?  
  
[ :SOURce]:FM[1]|2:STATe ON|OFF|1|0  
[ :SOURce]:FM[1]|2:STATe?  
  
[ :SOURce]:FM[1]|2[:DEVIation] <val><unit>  
[ :SOURce]:FM[1]|2[:DEVIation]?  
  
[ :SOURce]:FM[1]|2[:DEVIation]:TRACk ON|OFF|1|0  
[ :SOURce]:FM[1]|2[:DEVIation]:TRACk?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

List/Sweep Subsystem

Compatible Commands

```
[ :SOURce]:LIST:DIRection UP|DOWN
[ :SOURce]:LIST:DIRection?

[ :SOURce]:LIST:DWELl <val>{,<val>}
[ :SOURce]:LIST:DWELl?

[ :SOURce]:LIST:DWELl:POINTs?

[ :SOURce]:LIST:DWELl:TYPE LIST|STEP
[ :SOURce]:LIST:DWELl:TYPE?

[ :SOURce]:LIST:FREQuency <val>{,<val>}
[ :SOURce]:LIST:FREQuency?

[ :SOURce]:LIST:FREQuency:POINTs?

[ :SOURce]:LIST:MANual <val>
[ :SOURce]:LIST:MANual?

[ :SOURce]:LIST:MODE AUTO|MANual
[ :SOURce]:LIST:MODE?

[ :SOURce]:LIST:POWer <val>{,<val>}
[ :SOURce]:LIST:POWer?

[ :SOURce]:LIST:POWer:POINTs?

[ :SOURce]:LIST:TRIGger:SOURce BUS|IMMediate|EXTernal|KEY
[ :SOURce]:LIST:TRIGger:SOURce?

[ :SOURce]:LIST:TYPE LIST|STEP
[ :SOURce]:LIST:TYPE?

[ :SOURce]:LIST:TYPE:LIST:INITialize:FSTep
[ :SOURce]:LIST:TYPE:LIST:INITialize:PRESet

[ :SOURce]:SWEep:DWELl <val>
[ :SOURce]:SWEep:DWELl?

[ :SOURce]:SWEep:POINTs <val>
[ :SOURce]:SWEep:POINTs?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Low Frequency Subsystem

Compatible Commands

```
[ :SOURce]:LFOutput:AMPLitude <val><unit>  
[ :SOURce]:LFOutput:AMPLitude?  
  
[ :SOURce]:LFOutput:FUNCTion:FREQuency <val><unit>  
[ :SOURce]:LFOutput:FUNCTion:FREQuency?  
  
[ :SOURce]:LFOutput:FUNCTion:FREQuency:ALternate <val><unit>  
[ :SOURce]:LFOutput:FUNCTion:FREQuency:ALternate?  
  
[ :SOURce]:LFOutput:FUNCTion:FREQuency:ALternate:AMPLitude:PERCent <val><unit>  
[ :SOURce]:LFOutput:FUNCTion:FREQuency:ALternate:AMPLitude:PERCent?  
  
[ :SOURce]:LFOutput:FUNCTion:PERiod <val><unit>  
[ :SOURce]:LFOutput:FUNCTion:PERiod?  
  
[ :SOURce]:LFOutput:FUNCTion:PWIDth <val><unit>  
[ :SOURce]:LFOutput:FUNCTion:PWIDth?  
  
[ :SOURce]:LFOutput:FUNCTion:SHAPE <enum>  
[ :SOURce]:LFOutput:FUNCTion:SHAPE?  
  
[ :SOURce]:LFOutput:FUNCTion:SWEep:TIME <val><unit>  
[ :SOURce]:LFOutput:FUNCTion:SWEep:TIME?  
  
[ :SOURce]:LFOutput:FUNCTion:SWEep:TRIGger <enum>  
[ :SOURce]:LFOutput:FUNCTion:SWEep:TRIGger?  
  
[ :SOURce]:LFOutput:SOURce INT[1]|FUNCTion  
[ :SOURce]:LFOutput:SOURce?  
  
[ :SOURce]:LFOutput:STATE ON|OFF|1|0  
[ :SOURce]:LFOutput:STATE?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Phase Modulation Subsystem

Compatible Commands

```
[ :SOURce]:PM[1]|2:BANDwidth|BWIDth NORMAL|HIGH
[:SOURce]:PM[1]|2:BANDwidth|BWIDth?

[:SOURce]:PM[1]|2:EXTErnal[1]:COUPling AC|DC
[:SOURce]:PM[1]|2:EXTErnal[1]:COUPling?

[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency?

[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate?

[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate:AMPLitude:
PERCent <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:FREQuency:ALTErnate:AMPLitude:PERCent?

[:SOURce]:PM[1]|2:INTernAl[1]:FUNCTion:SHAPE SINE|TRIangle|SQUare|RAMP|
NOISE|DUALsine|SWEPTsine
[:SOURce]:PM[1]|2:INTernAl[1]:FUNCTion:SHAPE?

[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TIME <val><unit>
[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TIME?

[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TRIGger IMMEDIATE|KEY|EXTErnal|BUS
[:SOURce]:PM[1]|2:INTernAl[1]:SWEep:TRIGger?

[:SOURce]:PM[1]|2:SOURce INT[1]|EXT[1]|EXT2
[:SOURce]:PM[1]|2:SOURce?

[:SOURce]:PM[1]|2:STATE ON|OFF|1|0
[:SOURce]:PM[1]|2:STATE?

[:SOURce]:PM[1]|2[:DEViation] <val><unit>
[:SOURce]:PM[1]|2[:DEViation]?

[:SOURce]:PM[1]|2[:DEViation]:TRACK ON|OFF|1|0
[:SOURce]:PM[1]|2[:DEViation]:TRACK?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Power Subsystem

Compatible Commands

```
[ :SOURce ] :POWer:ALC: BANDwidth | BWIDth NORMAl | NARRow  
[ :SOURce ] :POWer:ALC: BANDwidth | BWIDth?  
  
[ :SOURce ] :POWer:ALC: SEARCh ON | OFF | 1 | 0 | ONCE  
[ :SOURce ] :POWer:ALC: SEARCh?  
  
[ :SOURce ] :POWer:ALC: SEARCh: REFEreNce FIXed | MODulated  
[ :SOURce ] :POWer:ALC: SEARCh: REFEreNce?  
  
[ :SOURce ] :POWer:ALC [ :STATE ] ON | OFF | 1 | 0  
[ :SOURce ] :POWer:ALC [ :STATE ] ?  
  
[ :SOURce ] :POWer:ALTErnate: AMPLitude <val>  
[ :SOURce ] :POWer:ALTErnate: AMPLitude?  
  
[ :SOURce ] :POWer:ALTErnate: MANual MAIN | DELTA  
[ :SOURce ] :POWer:ALTErnate: MANual?  
  
[ :SOURce ] :POWer:ALTErnate: STATE ON | OFF | 1 | 0  
[ :SOURce ] :POWer:ALTErnate: STATE?  
  
[ :SOURce ] :POWer:ALTErnate: TRIGger [ :SOURce ] INTernal | EXTernal | MANual  
[ :SOURce ] :POWer:ALTErnate: TRIGger [ :SOURce ] ?  
  
[ :SOURce ] :POWer:ATTenuation: AUTO ON | OFF | 1 | 0  
[ :SOURce ] :POWer:ATTenuation: AUTO?  
  
[ :SOURce ] :POWer:MODE FIXed | LIST  
[ :SOURce ] :POWer:MODE?  
  
[ :SOURce ] :POWer:REFerence <val><unit>  
[ :SOURce ] :POWer:REFerence?  
  
[ :SOURce ] :POWer:REFerence: STATE ON | OFF | 1 | 0  
[ :SOURce ] :POWer:REFerence: STATE?  
  
[ :SOURce ] :POWer:STARt <val><unit>  
[ :SOURce ] :POWer:STARt?  
  
[ :SOURce ] :POWer:STOP <val><unit>  
[ :SOURce ] :POWer:STOP?  
  
[ :SOURce ] :POWer [ :LEVel ] [ :IMMediate ] :OFFSet <val><unit>  
[ :SOURce ] :POWer [ :LEVel ] [ :IMMediate ] :OFFSet?
```

```
[ :SOURce ] :POWER [ :LEVel ] [ :IMMediate ] [ :AMPLitude ] <val><unit>  
[ :SOURce ] :POWER [ :LEVel ] [ :IMMediate ] [ :AMPLitude ] ?
```

Non-Compatible Commands

```
[ :SOURce ] :POWER :ATTenuation <val><unit>  
[ :SOURce ] :POWER :ATTenuation ?
```

Pulse Modulation Subsystem

Compatible Commands

```
[ :SOURce ] :PULM :FAST :STATe ON | OFF | 1 | 0  
[ :SOURce ] :PULM :FAST :STATe ?  
  
[ :SOURce ] :PULM :INTernal [ 1 ] :FREQuency <val><unit>  
[ :SOURce ] :PULM :INTernal [ 1 ] :FREQuency ?  
  
[ :SOURce ] :PULM :INTernal [ 1 ] :FUNctIon :SHAPE <enum>  
[ :SOURce ] :PULM :INTernal [ 1 ] :FUNctIon :SHAPE ?  
  
[ :SOURce ] :PULM :INTernal [ 1 ] :PERiod <val><unit>  
[ :SOURce ] :PULM :INTernal [ 1 ] :PERiod ?  
  
[ :SOURce ] :PULM :INTernal [ 1 ] :PWIDth <val><unit>  
[ :SOURce ] :PULM :INTernal [ 1 ] :PWIDth ?  
  
[ :SOURce ] :PULM :SOURce INT | EXT2  
[ :SOURce ] :PULM :SOURce ?  
  
[ :SOURce ] :PULM :STATe ON | OFF | 1 | 0  
[ :SOURce ] :PULM :STATe ?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Digital Function Commands

AWGN Subsystem

Compatible Commands

```
[ :SOURCE ] :RADio:AWGN:ARB:BWIDth <val>  
[ :SOURCE ] :RADio:AWGN:ARB:BWIDth?  
  
[ :SOURCE ] :RADio:AWGN:ARB:LENGth <val>  
[ :SOURCE ] :RADio:AWGN:ARB:LENGth?  
  
[ :SOURCE ] :RADio:AWGN:ARB:SEED FIXed | RANDom  
[ :SOURCE ] :RADio:AWGN:ARB:SEED?  
  
[ :SOURCE ] :RADio:AWGN:ARB[ :STATe ] ON | OFF | 1 | 0  
[ :SOURCE ] :RADio:AWGN:ARB[ :STATe ] ?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Bluetooth Subsystem

Compatible Commands

```
[ :SOURCE ] :RADio:BLUeetooth:ARB:AMADdr <val>  
[ :SOURCE ] :RADio:BLUeetooth:ARB:AMADdr?  
  
[ :SOURCE ] :RADio:BLUeetooth:ARB:BDADdr <val>  
[ :SOURCE ] :RADio:BLUeetooth:ARB:BDADdr?  
  
[ :SOURCE ] :RADio:BLUeetooth:ARB:BURSt[ :STATe ] ON | OFF | 1 | 0  
[ :SOURCE ] :RADio:BLUeetooth:ARB:BURSt[ :STATe ] ?  
  
[ :SOURCE ] :RADio:BLUeetooth:ARB:CGDelay <val>  
[ :SOURCE ] :RADio:BLUeetooth:ARB:CGDelay?  
  
[ :SOURCE ] :RADio:BLUeetooth:ARB:DATA PN9 | TPN9 | CPN9 | <val>  
[ :SOURCE ] :RADio:BLUeetooth:ARB:DATA?
```

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments ON|OFF|1|0
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments?

[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN ON|OFF|1|0
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN?

[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:CNR <val>
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:CNR?

[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:NSEed <val>
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:AWGN:NSEed?

[ :SOURce]:RADio:BLUEtooth:ARB:FDRift <val>
[ :SOURce]:RADio:BLUEtooth:ARB:FDRift?
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:DDEVIation <val>
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:DDEVIation?

[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FDFType LINEar|SINE
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FDFType?

[ :SOURce]:RADio:BLUEtooth:ARB:FOFFset <val>
[ :SOURce]:RADio:BLUEtooth:ARB:FOFFset?
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FOFFset <val>
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:FOFFset?

[ :SOURce]:RADio:BLUEtooth:ARB:MINDEX <val>
[ :SOURce]:RADio:BLUEtooth:ARB:MINDEX?
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:MINDEX <val>
[ :SOURce]:RADio:BLUEtooth:ARB:IMPairments:MINDEX?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:BLUETooth:ARB:IMPairments:STERror <val>
[ :SOURce ]:RADio:BLUETooth:ARB:IMPairments:STERror?

[ :SOURce ]:RADio:BLUETooth:ARB:PACKet DH1
[ :SOURce ]:RADio:BLUETooth:ARB:PACKet?

[ :SOURce ]:RADio:BLUETooth:ARB:RSYMBOLs <val>
[ :SOURce ]:RADio:BLUETooth:ARB:RSYMBOLs?

[ :SOURce ]:RADio:BLUETooth:ARB[ :STATe ] ON|OFF|1|0
[ :SOURce ]:RADio:BLUETooth:ARB[ :STATe ]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Calculate Subsystem

Compatible Commands

```
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:CRITeria:ERATE <val>
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:CRITeria:ERATE?

:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:
CRITeria[ :SElect ] ERATE|NOLimit
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS5:COMParator:CRITeria[ :SElect ]?

:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:CRITeria:ERATE <val>
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:CRITeria:ERATE?

:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:
CRITeria[ :SElect ] ERATE|NOLimit
:CALCulate:BERT:BTS:LOOPback:EDGE:MCS9:COMParator:CRITeria[ :SElect ]?

:CALCulate:BERT:BTS:LOOPback:EDGE:UNCoded:COMParator:CRITeria:ERATE <val>
:CALCulate:BERT:BTS:LOOPback:EDGE:UNCoded:COMParator:CRITeria:ERATE?

:CALCulate:BERT:BTS:LOOPback:EDGE:UNCoded:COMParator:CRITeria[ :SElect ]?

:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CIB <val>
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CIB?

:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CII <val>
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:CII?
```

```
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:FERasure <val>
:CALCulate:BERT:BTS:LOOPback:GSM:COMParator:CRITeria:FERasure?

:CALCulate:BERT[:BASEband]:COMParator:CRITeria[:SElect] FERasure|CLIB|
CLII|ANY|NOLimit
:CALCulate:BERT[:BASEband]:COMParator:CRITeria[:SElect]?

:CALCulate:BERT[:BASEband]:COMParator:MODE CEND|FHOLD
:CALCulate:BERT[:BASEband]:COMParator:MODE?

:CALCulate:BERT[:BASEband]:COMParator:THReshold <val>
:CALCulate:BERT[:BASEband]:COMParator:THReshold?

:CALCulate:BERT[:BASEband]:DISPlay:MODE PERCent|SCIENTific
:CALCulate:BERT[:BASEband]:DISPlay:MODE?

:CALCulate:BERT[:BASEband]:DISPlay:UPDate CEND|CONT
:CALCulate:BERT[:BASEband]:DISPlay:UPDate?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

CDMA ARB Subsystem

Compatible Commands

```
[:SOURce]:RADio:CDMA:ARB:CLIPping:I <10-100%>
[:SOURce]:RADio:CDMA:ARB:CLIPping:I?

[:SOURce]:RADio:CDMA:ARB:CLIPping:POSition PRE|POST
[:SOURce]:RADio:CDMA:ARB:CLIPping:POSition?

[:SOURce]:RADio:CDMA:ARB:CLIPping:Q <10-100%>
[:SOURce]:RADio:CDMA:ARB:CLIPping:Q?

[:SOURce]:RADio:CDMA:ARB:CLIPping:TYPE IJQ|IORQ
[:SOURce]:RADio:CDMA:ARB:CLIPping:TYPE?

[:SOURce]:RADio:CDMA:ARB:CLIPping[:IJQ] <10-100%>
[:SOURce]:RADio:CDMA:ARB:CLIPping[:IJQ]?

[:SOURce]:RADio:CDMA:ARB:CRATe <val>
[:SOURce]:RADio:CDMA:ARB:CRATe?

[:SOURce]:RADio:CDMA:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CDMA:ARB:FILTer?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CDMA:ARB:FILTer:ALPHa <val>
[ :SOURce ]:RADio:CDMA:ARB:FILTer:ALPHa?

[ :SOURce ]:RADio:CDMA:ARB:FILTer:BBT <val>
[ :SOURce ]:RADio:CDMA:ARB:FILTer:BBT?

[ :SOURce ]:RADio:CDMA:ARB:FILTer:CHANnel EVM|ACP
[ :SOURce ]:RADio:CDMA:ARB:FILTer:CHANnel?

[ :SOURce ]:RADio:CDMA:ARB:IQMap NORMAl|INVerted
[ :SOURce ]:RADio:CDMA:ARB:IQMap?

[ :SOURce ]:RADio:CDMA:ARB:OSAMple <val>
[ :SOURce ]:RADio:CDMA:ARB:OSAMple?

[ :SOURce ]:RADio:CDMA:ARB:RETRigger 1|0
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce ]:RADio:CDMA:ARB:RETRigger ON|OFF
[ :SOURce ]:RADio:CDMA:ARB:RETRigger?
```

NOTE The above query for the ESG Vector Signal Generator (E4438C) only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

```
[ :SOURce ]:RADio:CDMA:ARB:SETup FWD9|FWD32|FWD64|PILot|REVerse|MCARrier
"<file name>"
[ :SOURce ]:RADio:CDMA:ARB:SETup?

[ :SOURce ]:RADio:CDMA:ARB:SETup:CHANnel IS97|EQUal|SCALE|NONE{ ,PILot|SYNC|
PAGing|TRAFFic,<walsh_val>,<power_val>,<pnofs_val>,RANDOM|<data_val>}
[ :SOURce ]:RADio:CDMA:ARB:SETup:CHANnel?

[ :SOURce ]:RADio:CDMA:ARB:SETup:MCARrier CAR3|CAR4|"<file name>"
[ :SOURce ]:RADio:CDMA:ARB:SETup:MCARrier?

[ :SOURce ]:RADio:CDMA:ARB:SETup:MCARrier:STORE "<file name>"

[ :SOURce ]:RADio:CDMA:ARB:SETup:MCARrier:TABLE FWD9|FWD32|FWD64|PILot|
CUSTom,"<file name>"|"",<freq_offset>,<power>{ ,FWD9|FWD32|FWD64|PILot|
CUSTom,"<file name>"|"",<freq_offset>,<power>}
[ :SOURce ]:RADio:CDMA:ARB:SETup:MCARrier:TABLE?

[ :SOURce ]:RADio:CDMA:ARB:SETup:STORE "<file name>"
```

```
[ :SOURce ]:RADio:CDMA:ARB:TRIGger:TYPE CONT|SINGLE|GATE
[ :SOURce ]:RADio:CDMA:ARB:TRIGger:TYPE?

[ :SOURce ]:RADio:CDMA:ARB:TRIGger:TYPE:GATE:ACTIve LOW|HIGH
[ :SOURce ]:RADio:CDMA:ARB:TRIGger:TYPE:GATE:ACTIve?

[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]:EXTErnal:DELAy <val>
[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]:EXTErnal:DELAy?

[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]:EXTErnal:DELAy:STATe ON|OFF|1|0
[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]:EXTErnal:DELAy:STATe?

[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]:EXTErnal:SLOPe POSitive|NEGAtive
[ :SOURce ]:RADio:CDMA:ARB:TRIGger[ :SOURce ]:EXTErnal:SLOPe?

[ :SOURce ]:RADio:CDMA:ARB:WLENgth <val>
[ :SOURce ]:RADio:CDMA:ARB:WLENgth?

[ :SOURce ]:RADio:CDMA:ARB[ :STATe ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA:ARB[ :STATe ]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

CDMA2000 ARB Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:I <10-100%>
[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:I?

[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:POSition PRE|POST
[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:POSition?

[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:Q <10-100%>
[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:Q?

[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:TYPE IJQ|IORQ
[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping:TYPE?

[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping[ :IJQ ] <10-100%>
[ :SOURce ]:RADio:CDMA2000:ARB:CLIPping[ :IJQ ]?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CDMA2000:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[ :SOURce ]:RADio:CDMA2000:ARB:FILTer?

[ :SOURce ]:RADio:CDMA2000:ARB:FILTer:ALPHa <val>
[ :SOURce ]:RADio:CDMA2000:ARB:FILTer:ALPHa?

[ :SOURce ]:RADio:CDMA2000:ARB:FILTer:BBT <val>
[ :SOURce ]:RADio:CDMA2000:ARB:FILTer:BBT?

[ :SOURce ]:RADio:CDMA2000:ARB:FILTer:CHANnel EVM|ACP
[ :SOURce ]:RADio:CDMA2000:ARB:FILTer:CHANnel?

[ :SOURce ]:RADio:CDMA2000:ARB:IQMap NORMal|INVert|INVerted
[ :SOURce ]:RADio:CDMA2000:ARB:IQMap?

[ :SOURce ]:RADio:CDMA2000:ARB:LINK FORWard|REVerse
[ :SOURce ]:RADio:CDMA2000:ARB:LINK?

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup S1Pilot|S3DPilot|S3MPilot|
S19Chan|S3D9chan|S3M9chan|MCArrier|"<file name>"
[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup?

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCArrier CAR2|CAR3|CAR4|
"<file name>"
[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCArrier?

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCArrier:STORE "<file name>"

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCArrier:TABLE INIT|APPend|
<chan_num>,S1Pilot|S3DPilot|S3MPilot|S19Chan|S3D9chan|S3M9chan|
"<file name>",<freq_offset>,<power>
[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCArrier:TABLE? <chan_num>

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:MCArrier:TABLE:NCARriers?

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:STORE "<file name>"

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:APPLY

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:CHANnel INIT|APPend|
<chan_num>,<chan_type>,<config>,<data_rate>,<walsh>,<power>,<pn_offset>,
RANDom|<data_val>
[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:CHANnel? <chan_num>

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:NCHannels?

[ :SOURce ]:RADio:CDMA2000:ARB:LINK:FORWard:SETup:TABLE:PADJust EQUal|SCALE
```

```
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:RCONfig <val>
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:RCONfig?

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse: SETUpS1Pilot|S3Pilot|S15Chan|
S35Chan|S18Chan|"<file name>"
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp?

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:STORE "<file name>"

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:APPLY

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:CHANnel INIT|APPend|
<chan_num>,<chan_type>,<data_rate>,<power>,RANDOM|<data_val>
[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:CHANnel? <chan_num>

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:NCHannels?

[ :SOURce]:RADio:CDMA2000:ARB:LINK:REVerse:SETUp:TABLE:PADJust EQUal|SCALE

[ :SOURce]:RADio:CDMA2000:ARB:RETRigger 1|0
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce]:RADio:CDMA2000:ARB:RETRigger ON|OFF
[ :SOURce]:RADio:CDMA2000:ARB:RETRigger?
```

NOTE The above query for the ESG Vector Signal Generator (E4438C) only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

```
[ :SOURce]:RADio:CDMA2000:ARB:REVisIon?

[ :SOURce]:RADio:CDMA2000:ARB:SPReading:RATE 1|3
[ :SOURce]:RADio:CDMA2000:ARB:SPReading:RATE?

[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE DIRECT|MCARrier
[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE?

[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE:MCARrier:SPACing 1.23MHz|
1.25MHz
[ :SOURce]:RADio:CDMA2000:ARB:SPReading:TYPE:MCARrier:SPACing?

[ :SOURce]:RADio:CDMA2000:ARB:TRIGger:TYPE CONT|SINGLE|GATE
[ :SOURce]:RADio:CDMA2000:ARB:TRIGger:TYPE?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger:TYPE:GATE:ACTive LOW|HIGH
[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger:TYPE:GATE:ACTive?

[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]:EXTErnal:DElAY <val>
[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]:EXTErnal:DElAY?

[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]:EXTErnal:DElAY:
STATe ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]:EXTErnal:DElAY:STATe?

[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]:EXTErnal:
SLOPe POSitive|NEGative
[ :SOURce ]:RADio:CDMA2000:ARB:TRIGger[ :SOURce ]:EXTErnal:SLOPe?

[ :SOURce ]:RADio:CDMA2000:ARB[ :STATe ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000:ARB[ :STATe ]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

CDMA2000 BBG Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:LiNK FORWard|REVerse
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:LiNK?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BBCLock INT[1]|EXT[1]
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BBCLock?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:ESDeLay <0.5-128.0>
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:ESDeLay?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:CRATe <50 cps-1.3 Mcps>
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:CRATe?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:FiLTer:ALPHa <0-1.0>
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:FiLTer:ALPHa?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:FiLTer:BBT <0-1.0>
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:FiLTer:BBT?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:FiLTer:CHANnel EVM|ACP
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:FiLTer:CHANnel?
```

```
[ :SOURce]:RADio:CDMA2000[:BBG]:REVerse:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|{IS95_MOD}|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:FILTer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCMask <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCState <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:LCState?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:PADJust EQUal|SCALE

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity NORMal|INVerted
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity:ALL NORMal|INVerted
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:POLarity:ALL?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:FLENgth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH[:STATe] ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RACH[:STATe]?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FLENgth <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FLENgth?

[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG]:REVerse:RCCCh:SETup:FOFFset?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh:SETup:POWer <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh:SETup:POWer?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh:SETup:RATE <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh:SETup:RATE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh:SETup:WALSh <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh:SETup:WALSh?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCCCh[:STATE]?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCONfig <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RCONfig?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:DATA?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:DATA:FIX4 <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:DATA:FIX4?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:FLENgth <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:FLENgth?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:FOFFset <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:FOFFset?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:POWer <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:POWer?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:RATE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:WALSh <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh:SETup:WALSh?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RDCCh[:STATE]?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:REACH:SETup:DATA PN9|PN15|FIX4|
"<file name>"
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:REACH:SETup:DATA?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:REACH:SETup:DATA:FIX4 <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:REACH:SETup:DATA:FIX4?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:REACH:SETup:FLENgth <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:REACH:SETup:FLENgth?
```

```

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:FOFFset <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:FOFFset?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:POWER <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:POWER?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:RATE <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:RATE?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:WALSh <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH:SETUP:WALSh?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:REACH[:STATE]?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:DATA?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:DATA:FIX4 <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:DATA:FIX4?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:FLEnGth <5-20>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:FLEnGth?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:FOFFset <0-15>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:FOFFset?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:POWER <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:POWER?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:
RATE <1.5kbps-14.4kbps>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:RATE?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:WALSh <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH:SETUP:WALSh?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RFCH[:STATE]?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RPICH:SETUP:GRATE FULL|HALF|QUARter
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RPICH:SETUP:GRATE?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RPICH:SETUP:PCB <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RPICH:SETUP:PCB?

[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RPICH:SETUP:POWER <val>
[:SOURCE]:RADIO:CDMA2000[:BBG]:REVERSE:RPICH:SETUP:POWER?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RPICh :SETup :WALSh?
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RPICh [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RPICh [ :STATe ] ?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :DATA PN9 | PN15 | FIX4 |
"<file name>" | EXT
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :DATA?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :DATA :FIX4 <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :DATA :FIX4?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :FLENgth <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :FLENgth?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :FOFFset <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :FOFFset?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :POWER <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :POWER?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :RATE <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :RATE?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :TCODE ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :TCODE?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :WALSh <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 :SETup :WALSh?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH1 [ :STATe ] ?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :DATA PN9 | PN15 | FIX4 |
"<file name>" | EXT
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :DATA?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :DATA :FIX4 <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :DATA :FIX4?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :FLENgth <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :FLENgth?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :FOFFset <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :FOFFset?

[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :POWER <val>
[ :SOURce ] :RADio :CDMA2000 [ :BBG ] :REVerse :RSCH2 :SETup :POWER?
```

```
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2:SETup:RATE <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2:SETup:RATE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2:SETup:TCODE ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2:SETup:TCODE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2:SETup:WALSh <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2:SETup:WALSh?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH2[:STATE]?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:DATA PN9|PN15|FIX4|
"<file name>"|EXT
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:DATA?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:DATA:FIX4 <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:DATA:FIX4?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:FLENGth <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:FLENGth?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:FOFFset <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:FOFFset?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:POWer <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:POWer?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:RATE <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:RATE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:WALSh <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH:SETup:WALSh?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:RSCH[:STATE]?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:SPReading:RATE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:TADVance <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:TADVance?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:TEDGe RISing|FALLing
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:TEDGe?

[ :SOURce ]:RADio:CDMA2000[ :BBG][:FORWARD]:CRATe <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG][:FORWARD]:CRATe?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA PN9|PN15|FIX4|
"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:ESN <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:ESN?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:HEADer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:LCMask:HEADer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PPUNCTure ON|OFF|1|0
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PPUNCTure?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PRAMP <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:PRAMP?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:QOF <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:QOF?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RCONfig <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:RCONfig?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FFCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:DATA DEFault|
"<file name>"
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F1 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F1?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F2 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F2?
```

```

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F3 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:LCMask:F3?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:
MESSAge <bit_count>, <datablock>

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:RATE 4.8ksps|9.6ksps
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:WALSh <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPCH:SETup:WALSh?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:PNOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:PNOFFset?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FPICH:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA PN9|PN15|
FIX4|"<file name>"|EXT
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA:FIX4 <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:DATA:FIX4?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:FOFFset <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:FOFFset?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:ESN <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:ESN?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:HEAder <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:LCMask:HEAder?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:POWer <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:POWer?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:QOF <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:QOF?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RATE <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RATE?

[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RCONfig <val>
[:SOURce]:RADio:CDMA2000[:BBG][:FORWard]:FSCH[1]|2:SETup:RCONfig?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSCH[1] | 2:SETup:TCODE ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSCH[1] | 2:SETup:TCODE?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSCH[1] | 2:SETup:WALSh <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSCH[1] | 2:SETup:WALSh?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:CFRequency <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:CFRequency?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:DAYLt <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:DAYLt?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:ECFRequency <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:ECFRequency?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:LCState <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:LCState?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:LPSec <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:LPSec?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:LTMoff <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:LTMoff?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:MPREv <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:MPREv?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:MSGType <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:MSGType?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:NID <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:NID?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:POWer <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:POWer?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:PRATe <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:PRATe?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:PREV <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:PREV?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:RESErved <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:RESErved?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:SID <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:SID?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:STYPe IS95|JSTD8|IS2000
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc:SETup:STYPe?
```

```

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FSYnc:SETup:SYSTime <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FSYnc:SETup:SYSTime?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FSYnc:SETup:WALSh <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FSYnc:SETup:WALSh?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:OCNS:SETup:POWEr <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:OCNS:SETup:POWEr?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:OCNS:SETup:WALSh <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:OCNS:SETup:WALSh?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:POLarity:ALL NORMal|INVerted
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:POLarity:ALL?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:CCI <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:CCI?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:PI <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:PI?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:POWEr <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:POWEr?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:RATE <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:RATE?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:WALSh <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH:SETup:WALSh?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:QPCH[:STATE]?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:SPReading:RATE?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:BBCLock INT[1]|EXT[1]
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:BBCLock?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:ESDelay <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:ESDelay?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FFCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FFCH[:STATE]?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FILTer?

[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FILTer:ALPHA <val>
[:SOURCE]:RADIO:CDMA2000[:BBG][:FORWARD]:FILTer:ALPHA?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FILTer:BBT <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FILTer:BBT?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FILTer:CHANnel EVM|ACP
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FILTer:CHANnel?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FPCH[ :STATE ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FPCH[ :STATE ]?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FPICH[ :STATE ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FPICH[ :STATE ]?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSCH[1]|2[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSCH[1]|2[:STATE]?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc[ :STATE ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:FSYnc[ :STATE ]?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:OCNS[ :STATE ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:OCNS[ :STATE ]?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:PADJust EQUal|SCALE
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:POLarity NORMal|INVerted
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :FORWard ]:POLarity?

[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :STATE ] ON|OFF|1|0
[ :SOURce ]:RADio:CDMA2000[ :BBG ] [ :STATE ]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:
DCOut CCLK|CLK20ms|CLK80ms|CLK4khz|CLK307khz
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:DCOut?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:DOUT LCode|IOUT|QOUT
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:DOUT?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:EVENT DESecond|PNSync
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:EVENT?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:SSOut EVENsecond|LCSync
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC12:SSOut?

[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC34:DCOut CCLK|CLK5ms|
CLK10ms|CLK20ms|CLK40ms|CLK80ms
[ :SOURce ]:RADio:CDMA2000[ :BBG ]:REVerse:BNCMux:RC34:DCOut?
```

```
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:BNCMux:RC34:DOUT LCode | PILOT |
RSCHcoded | RDCChcoded | RFCHcoded | RCCChcoded | REACHcoded | ZI | ZQ
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:BNCMux:RC34:DOUT?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:BNCMux:RC34:EVENT DESecond | PNSync
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:BNCMux:RC34:EVENT?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:PPOther <0-4>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:PPOther?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:PPower?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:SCALE <-40dB to 0dB>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:SCALE?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:TVOLTage?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:TVOther <0-4V>
[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:TVOther?

[ :SOURce ]:RADio:CDMA2000[ :BBG]:REVerse:IQ:Rotation?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:BNCMux:DOUT PCRamp | D80Trigger
[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:BNCMux:DOUT?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:BNCMux:EVENT DESecond | D20Trigger |
D80Trigger
[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:BNCMux:EVENT?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:PPOther <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:PPOther?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:PPower?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:SCALE <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:SCALE?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:TVOLTage?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:TVOther <val>
[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:TVOther?

[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:Rotation STANDARD | ROTated
[ :SOURce ]:RADio:CDMA2000[ :BBG][ :FORWard]:IQ:Rotation?
```

Custom Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:CUSTom:ALPHa <val>  
[ :SOURce ]:RADio:CUSTom:ALPHa?  
  
[ :SOURce ]:RADio:CUSTom:BBCLock INT[1] | EXT[1]  
[ :SOURce ]:RADio:CUSTom:BBCLock?  
  
[ :SOURce ]:RADio:CUSTom:BBT <val>  
[ :SOURce ]:RADio:CUSTom:BBT?  
  
[ :SOURce ]:RADio:CUSTom:BRATe <val>  
[ :SOURce ]:RADio:CUSTom:BRATe?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FALL:DELay <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FALL:DELay?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FALL:TIME <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FALL:TIME?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FDELay <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FDELay?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FTIME <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:FTIME?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RDELay <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RDELay?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RISE:DELay <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RISE:DELay?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RISE:TIME <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RISE:TIME?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RTIME <val>  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE:RTIME?  
  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE[:TYPE] SINE | "<file name>"  
[ :SOURce ]:RADio:CUSTom:BURSt:SHAPE[:TYPE]?  
  
[ :SOURce ]:RADio:CUSTom:DATA PN9 | PN11 | PN15 | PN20 | PN23 | FIX4 | "<file name>" |  
EXT | P4 | P8 | P16 | P32 | P64  
[ :SOURce ]:RADio:CUSTom:DATA?  
  
[ :SOURce ]:RADio:CUSTom:DATA:FIX4 <val>  
[ :SOURce ]:RADio:CUSTom:DATA:FIX4?
```

```

[:SOURce]:RADio:CUSTom:DENCode ON|OFF|1|0
[:SOURce]:RADio:CUSTom:DENCode?

[:SOURce]:RADio:CUSTom:EDATa:DELay?

[:SOURce]:RADio:CUSTom:EDCLock SYMBOL|NORMal
[:SOURce]:RADio:CUSTom:EDCLock?

[:SOURce]:RADio:CUSTom:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio:CUSTom:FILTer?

[:SOURce]:RADio:CUSTom:IQ:SCALE <val>
[:SOURce]:RADio:CUSTom:IQ:SCALE?

[:SOURce]:RADio:CUSTom:MODulation:FSK[:DEViation] <val>
[:SOURce]:RADio:CUSTom:MODulation:FSK[:DEViation]?

[:SOURce]:RADio:CUSTom:MODulation:MSK[:PHASe] <val>
[:SOURce]:RADio:CUSTom:MODulation:MSK[:PHASe]?

[:SOURce]:RADio:CUSTom:MODulation:UFSK "<file name>"
[:SOURce]:RADio:CUSTom:MODulation:UFSK?

[:SOURce]:RADio:CUSTom:MODulation:UIQ "<file name>"
[:SOURce]:RADio:CUSTom:MODulation:UIQ?

[:SOURce]:RADio:CUSTom:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio:CUSTom:MODulation[:TYPE]?

[:SOURce]:RADio:CUSTom:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:CUSTom:POLarity[:ALL]?

[:SOURce]:RADio:CUSTom:REPeat SINGLE|CONTinuous
[:SOURce]:RADio:CUSTom:REPeat?

[:SOURce]:RADio:CUSTom:SRATe <val>
[:SOURce]:RADio:CUSTom:SRATe?

[:SOURce]:RADio:CUSTom:STANdard:SELEct NONE|AC4Fm|ACQPsk|BLUETOOTH|CDPD
[:SOURce]:RADio:CUSTom:STANdard:SELEct?

[:SOURce]:RADio:CUSTom:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:CUSTom:TRIGger[:SOURce]?

[:SOURce]:RADio:CUSTom:TRIGger[:SOURce]:EXTernal:DELay <val>
[:SOURce]:RADio:CUSTom:TRIGger[:SOURce]:EXTernal:DELay?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:CUSTom:TRIGger[ :SOURce]:EXTErnal:DELAy:STATE ON|OFF|1|0  
[ :SOURce ]:RADio:CUSTom:TRIGger[ :SOURce]:EXTErnal:DELAy:STATE?  
  
[ :SOURce ]:RADio:CUSTom[:STATE] ON|OFF|1|0  
[ :SOURce ]:RADio:CUSTom[:STATE]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:CUSTom:CHANnel EVM|ACP  
[ :SOURce ]:RADio:CUSTom:CHANnel?
```

Data Subsystem

Compatible Commands

```
:DATA:BERT:BTS:LOOPback:EDGE:MCS5[:DATA]?  
:DATA:BERT:BTS:LOOPback:EDGE:MCS9[:DATA]?  
:DATA:BERT:BTS:LOOPback:EDGE:UNCoded[:DATA]?  
:DATA:BERT[:BASEband][[:DATA]? BEC|BITC|BER|ALL|TBEC|TBIT|TBER|JUDGE  
:DATA[:DATA]? BEC|BITC|BER|ALL|TBEC|TBIT|TBER|JUDGE
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Digital Modulation Subsystem

Compatible Commands

```
[ :SOURce ]:BURSt:SOURce EXTErnal[1]|INTErnal[1]  
[ :SOURce ]:BURSt:SOURce?  
  
[ :SOURce ]:BURSt:STATE ON|OFF|1|0  
[ :SOURce ]:BURSt:STATE?  
  
[ :SOURce ]:DM:BBFilter THROugh  
[ :SOURce ]:DM:BBFilter?  
  
[ :SOURce ]:DM:EXTErnal:ALC:BANDwidth|BWIDth NORMAl|NARRow  
[ :SOURce ]:DM:EXTErnal:ALC:BANDwidth|BWIDth?  
  
[ :SOURce ]:DM:EXTErnal:HICRest[:STATE] ON|OFF|1|0  
[ :SOURce ]:DM:EXTErnal:HICRest[:STATE]?
```

```
[ :SOURce]:DM:IQADjustment:Gain <val><unit>
[:SOURce]:DM:IQADjustment:Gain?

[:SOURce]:DM:IQADjustment:IOFFset <val><unit>
[:SOURce]:DM:IQADjustment:IOFFset?

[:SOURce]:DM:IQADjustment:QOFFset <val><unit>
[:SOURce]:DM:IQADjustment:QOFFset?

[:SOURce]:DM:IQADjustment:QSKew <val><unit>
[:SOURce]:DM:IQADjustment:QSKew?

[:SOURce]:DM:IQADjustment[:STATe] ON|OFF|1|0
[:SOURce]:DM:IQADjustment[:STATe]?

[:SOURce]:DM:SOURce EXTernal|INTernal[1]
[:SOURce]:DM:SOURce?

[:SOURce]:DM:STATe ON|OFF|1|0
[:SOURce]:DM:STATe?
```

Non-Compatible Commands

```
[ :SOURce]:DM:BBFilter <val>
[:SOURce]:DM:BBFilter?

[:SOURce]:DM:EXTernal:POLarity NORMal|INVerted
[:SOURce]:DM:EXTernal:POLarity?
```

Dmodulation Subsystem

Compatible Commands

```
[ :SOURce]:RADio:DMODulation:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|
IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|WCDMA|AC4Fm|IS2000SR3DS|UGGaussian|
"<user FIR>"
[:SOURce]:RADio:DMODulation:ARB:FILTer?

[:SOURce]:RADio:DMODulation:ARB:FILTer:ALPHa <val>
[:SOURce]:RADio:DMODulation:ARB:FILTer:ALPHa?

[:SOURce]:RADio:DMODulation:ARB:FILTer:BBT <val>
[:SOURce]:RADio:DMODulation:ARB:FILTer:BBT?

[:SOURce]:RADio:DMODulation:ARB:FILTer:CHANnel EVM|ACP
[:SOURce]:RADio:DMODulation:ARB:FILTer:CHANnel?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:DMODulation:ARB:MODulation:FSK[ :DEVIation] <val><unit>
[ :SOURce ]:RADio:DMODulation:ARB:MODulation:FSK[ :DEVIation]?

[ :SOURce ]:RADio:DMODulation:ARB:MODulation[ :TYPE] BPSK|QPSK|IS95QPSK|
GRAYQPSK|OQPSK|IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|EDGE|MSK|FSK2|FSK4|FSK8|
FSK16|C4FM|QAM4|QAM16|QAM32|QAM64|QAM256
[ :SOURce ]:RADio:DMODulation:ARB:MODulation[ :TYPE]?

[ :SOURce ]:RADio:DMODulation:ARB:RETRigger 1|0
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce ]:RADio:DMODulation:ARB:RETRigger ON|OFF
[ :SOURce ]:RADio:DMODulation:ARB:RETRigger?
```

NOTE The above query for the ESG Vector Signal Generator (E4438C) only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

```
[ :SOURce ]:RADio:DMODulation:ARB:SETup GSM|NADC|PDC|PHS|DECT|AC4Fm|ACQPsk|
CDPD|PWT|EDGE|TETra|MCARrier| "<file name>"
[ :SOURce ]:RADio:DMODulation:ARB:SETup?

[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier GSM|NADC|PDC|PHS|DECT|
AC4Fm|ACQPsk|CDPD|PWT|EDGE|TETra,<num carriers>,<freq spacing>| "<file name>"
[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier?

[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier:PHASe FIXEd|RANDOm
[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier:PHASe?

[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier:STORE "<file name>"

[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier:TABLE INIT|APPend|
<carrier_num>,<GSM|NADC|PDC|PHS|DECT|AC4Fm|ACQPsk|CDPD|PWT|EDGE|TETra|
"<file name>",<freq_offset>,<power>
[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier:TABLE? <carrier_num>

[ :SOURce ]:RADio:DMODulation:ARB:SETup:MCARrier:TABLE:NCARriers?

[ :SOURce ]:RADio:DMODulation:ARB:SETup:STORE "<file name>"

[ :SOURce ]:RADio:DMODulation:ARB:SRATe <val>
[ :SOURce ]:RADio:DMODulation:ARB:SRATe?
```

```
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger:TYPE CONT|SINGLe|GATE
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger:TYPE?

[ :SOURce ]:RADio:DMODulation:ARB:TRIGger:TYPE:GATE:ACTive LOW|HIGH
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger:TYPE:GATE:ACTive?

[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]:EXTernal:DELay <val>
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]:EXTernal:DELay?

[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]:EXTernal:DELay:
STATe ON|OFF|1|0
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]:EXTernal:DELay:STATe?

[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]:EXTernal:
SLOPe POSitive|NEGative
[ :SOURce ]:RADio:DMODulation:ARB:TRIGger[ :SOURce ]:EXTernal:SLOPe?

[ :SOURce ]:RADio:DMODulation:ARB[ :STATe ] ON|OFF|1|0
[ :SOURce ]:RADio:DMODulation:ARB[ :STATe ]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

DECT Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:DECT:ALPHa <val>
[ :SOURce ]:RADio:DECT:ALPHa?

[ :SOURce ]:RADio:DECT:BBCLock INT[1]|EXT[1]
[ :SOURce ]:RADio:DECT:BBCLock?

[ :SOURce ]:RADio:DECT:BBT <val>
[ :SOURce ]:RADio:DECT:BBT?

[ :SOURce ]:RADio:DECT:BRATe <val>
[ :SOURce ]:RADio:DECT:BRATe?

[ :SOURce ]:RADio:DECT:BURSt:PN9 NORMAl|QUICK
[ :SOURce ]:RADio:DECT:BURSt:PN9?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FALL:DELay <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FALL:DELay?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FALL:TIME <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FALL:TIME?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FDELaY <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FDELaY?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FTIME <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:FTIME?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RDELaY <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RDELaY?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RISE:DELaY <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RISE:DELaY?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RISE:TIME?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RTIME <val>
[ :SOURce ]:RADio:DECT:BURSt:SHAPE:RTIME?

[ :SOURce ]:RADio:DECT:BURSt:SHAPE[:TYPE] SINE | "<file name>"
[ :SOURce ]:RADio:DECT:BURSt:SHAPE[:TYPE]?

[ :SOURce ]:RADio:DECT:BURSt[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:DECT:BURSt[:STATe]?

[ :SOURce ]:RADio:DECT:DATA PN9 | PN11 | PN15 | PN20 | PN23 | FIX4 | "<file name>" | EXT | P4 |
P8 | P16 | P32 | P64
[ :SOURce ]:RADio:DECT:DATA?

[ :SOURce ]:RADio:DECT:DATA:FIX4 <val>
[ :SOURce ]:RADio:DECT:DATA:FIX4?

[ :SOURce ]:RADio:DECT:DEFAult

[ :SOURce ]:RADio:DECT:EDATa:DELaY?

[ :SOURce ]:RADio:DECT:EDCLock SYMBol | NORMal
[ :SOURce ]:RADio:DECT:EDCLock?

[ :SOURce ]:RADio:DECT:FILTer RNYQuist | NYQuist | GAUSSian | RECTangle | IS95 | IS95_EQ |
IS95_MOD | IS95_MOD_EQ | AC4Fm | IS2000SR3DS | UGGaussian | "<user FIR>"
[ :SOURce ]:RADio:DECT:FILTer?

[ :SOURce ]:RADio:DECT:IQ:SCALe <val>
[ :SOURce ]:RADio:DECT:IQ:SCALe?

[ :SOURce ]:RADio:DECT:MODulation:FSK[:DEVIation] <val>
[ :SOURce ]:RADio:DECT:MODulation:FSK[:DEVIation]?
```

```
[ :SOURce]:RADio:DECT:MODulation:MSK[:PHASe] <val>
[ :SOURce]:RADio:DECT:MODulation:MSK[:PHASe]?

[ :SOURce]:RADio:DECT:MODulation:UFSK "<file name>"
[ :SOURce]:RADio:DECT:MODulation:UFSK?

[ :SOURce]:RADio:DECT:MODulation:UIQ "<file name>"
[ :SOURce]:RADio:DECT:MODulation:UIQ?

[ :SOURce]:RADio:DECT:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|
OQPSK|IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|
C4FM|QAM4|QAM16|QAM32|QAM64|QAM256|UIQ|UFSK
[ :SOURce]:RADio:DECT:MODulation[:TYPE]?

[ :SOURce]:RADio:DECT:POLarity[:ALL] NORMal|INVERTed
[ :SOURce]:RADio:DECT:POLarity[:ALL]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4[:TYPE] CUSTom|TRAFFic|LCAPacity|
ZTRAffic|ZLCapacity
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4[:TYPE]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
CUSTom PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|FACCuracy|
DM1|DM0 |P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:FIX4 <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:FIX4?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
LCAPacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0 |P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]?

[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:
FIX4 <val>
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:
FIX4?
```

ESG E44xxB Commands
 Digital Function Commands

```

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER MAIN|DELTA
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE ON|OFF|1|0
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC:A <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC:A?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC:P <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC:P?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC:S <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC:S?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
TRAFFIC[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0|P4|P8|P16|P32|P64
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC[:B]?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC[:B]:
FIX4 <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFIC[:B]:FIX4?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:A <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:A?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:P <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:P?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:S <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:S?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0|P4|P8|P16|P32|P64
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4 <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAFFIC:A <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAFFIC:A?

[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAFFIC:P <val>
[:SOURCE]:RADIO:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRAFFIC:P?

```

```
[ :SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S <val>
[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S?

[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZTRaffic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0 |P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]?

[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:
FIX4 <val>
[:SOURce]:RADio:DECT:PPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:FIX4?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4[:TYPE] CUSTom|DUMM[1]|DUMM2|
TRAffic|LCAPacity|ZTRaffic|ZLCapacity
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4[:TYPE]?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
CUSTom PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|FACCuracy|
DM1|DM0 | P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:
FIX4 <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:CUSTom:FIX4?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:P?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM2:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:P?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:DUMM[1]:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:P?
```

ESG E44xB Commands

Digital Function Commands

```
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity:S?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
LCAPacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:
FIX4 <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:LCAPacity[:B]:
FIX4?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER MAIN|DELTA
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:POWER?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE ON|OFF|1|0
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:STATE?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:A <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:A?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:P <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:P?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:S <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic:S?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
TRAFFic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]:
FIX4 <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:TRAFFic[:B]:
FIX4?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity:A <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:A?

[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity:P <val>
[ :SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:P?
```

```

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZLCapacity[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4 <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZLCapacity[:B]:
FIX4?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:A <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:A?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:P <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:P?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic:S?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:
ZTRaffic[:B] PN9|PN15|FIX4|"<file name>"|EXT|FDEV1_HS|FDEV1_FS|FDEV2_FS|
FACCuracy|DM1|DM0| P4|P8|P16|P32|P64
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]?

[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:
FIX4 <val>
[:SOURce]:RADio:DECT:RFPart:SLOT0|[1]|2|3|4|5|6|7|8|9|10|11:ZTRaffic[:B]:
FIX4?

[:SOURce]:RADio:DECT:SECondary:RECall

[:SOURce]:RADio:DECT:SECondary:SAVE

[:SOURce]:RADio:DECT:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:DECT:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:DECT:SECondary[:STATE] ON|OFF|1|0
[:SOURce]:RADio:DECT:SECondary[:STATE]?

[:SOURce]:RADio:DECT:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:DECT:SOUT?

[:SOURce]:RADio:DECT:SOUT:OFFSet <val>
[:SOURce]:RADio:DECT:SOUT:OFFSet?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:DECT:SOUT:SLOT <val>
[ :SOURce ]:RADio:DECT:SOUT:SLOT?

[ :SOURce ]:RADio:DECT:SRATe <val>
[ :SOURce ]:RADio:DECT:SRATe?

[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]:EXTernal:DELay <val>
[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]:EXTernal:DELay?

[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]:EXTernal:DELay:STATe ON|OFF|1|0
[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]:EXTernal:DELay:STATe?

[ :SOURce ]:RADio:DECT[:STATe] ON|OFF|1|0
[ :SOURce ]:RADio:DECT[:STATe]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:DECT:CHANnel EVM|ACP
[ :SOURce ]:RADio:DECT:CHANnel?

[ :SOURce ]:RADio:DECT:FCHannel:BAND STANdard
[ :SOURce ]:RADio:DECT:FCHannel:BAND?

[ :SOURce ]:RADio:DECT:FCHannel:NUMBER <val>
[ :SOURce ]:RADio:DECT:FCHannel:NUMBER?

[ :SOURce ]:RADio:DECT:FCHannel[:STATe] ON|OFF|1|0
[ :SOURce ]:RADio:DECT:FCHannel[:STATe]?

[ :SOURce ]:RADio:DECT:REPeat SINGLE|CONTinuous
[ :SOURce ]:RADio:DECT:REPeat?

[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]:EXTernal[:TYPE] SINGLE|GATE|RESet|
MANual
[ :SOURce ]:RADio:DECT:TRIGger[ :SOURce ]:EXTernal[:TYPE]?
```

Dual ARB Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:ARB:CLIPping "<file name>","IJQ|IORQ,<10-100%>
[ :SOURce ]:RADio:ARB:CLOCK:SRATe <val>
[ :SOURce ]:RADio:ARB:CLOCK:SRATe?
```

```
[ :SOURce]:RADio:ARB:MARKer:CLEar "<file name>",<mkr(1|2)>,<first_point>,<last_point>
```

```
[ :SOURce]:RADio:ARB:MARKer:CLEar:ALL "<file name>",<mkr(1|2)>
```

```
[ :SOURce]:RADio:ARB:MARKer:POLarity NEGative|POSitive
```

```
[ :SOURce]:RADio:ARB:MARKer:POLarity?
```

```
[ :SOURce]:RADio:ARB:MARKer:RFBLank ON|OFF|1|0
```

```
[ :SOURce]:RADio:ARB:MARKer:RFBLank?
```

```
[ :SOURce]:RADio:ARB:MARKer[:SET] "<file name>",<mkr(1|2)>,<first_point>,<last_point>,<skip_count>
```

```
[ :SOURce]:RADio:ARB:RETRigger 1|0
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce]:RADio:ARB:RETRigger ON|OFF
```

```
[ :SOURce]:RADio:ARB:RETRigger?
```

NOTE The above query for the ESG Vector Signal Generator (E4438C) only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

```
[ :SOURce]:RADio:ARB:RFILter <val>|THROUGH
```

NOTE The above command performs no function within the ESG Vector Signal Generator (E4438C), however it is accepted when executed without errors. Notice that the query form of the command is not compatible.

```
[ :SOURce]:RADio:ARB:SCALing "<file name>",<1%-100%>
```

```
[ :SOURce]:RADio:ARB:SEQuence "<file name>","<waveform>",<reps>,<mkr1(1|0)>,<mkr2(1|0)>{,"<waveform>",<rep>,<mkr1(1|0)>,<mkr2(1|0)>}
```

```
[ :SOURce]:RADio:ARB:SEQuence? "<file name>"
```

```
[ :SOURce]:RADio:ARB:TRIGger:TYPE CONTinuous|SINGLE|GATE|SADVance
```

```
[ :SOURce]:RADio:ARB:TRIGger:TYPE?
```

```
[ :SOURce]:RADio:ARB:TRIGger:TYPE:GATE:ACTive LOW|HIGH
```

```
[ :SOURce]:RADio:ARB:TRIGger:TYPE:GATE:ACTive?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ] KEY | EXT | BUS
[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]?

[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]:EXTernal:DELay <val>
[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]:EXTernal:DELay?

[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]:EXTernal:DELay:STATe ON | OFF | 1 | 0
[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]:EXTernal:DELay:STATe?

[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]:EXTernal:SLOPe POSitive | NEGative
[ :SOURce ]:RADio:ARB:TRIGger [ :SOURce ]:EXTernal:SLOPe?

[ :SOURce ]:RADio:ARB:WAVEform "<file name>"
[ :SOURce ]:RADio:ARB:WAVEform?

[ :SOURce ]:RADio:ARB [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ]:RADio:ARB [ :STATe ]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:ARB:RFILter?

[ :SOURce ]:RADio:ARB:CLOCK:REFerence:EXTernal:FREQuency <val>
[ :SOURce ]:RADio:ARB:CLOCK:REFerence:EXTernal:FREQuency?
```

NOTE Using the above command will set the external frequency value for all arb personalities. The ESG Vector Signal Generator (E4438C) has commands to set the external frequency for each arb personality. For more information on this command, see the SCPI Command Reference.

```
[ :SOURce ]:RADio:ARB:CLOCK:REFerence [ :SOURce ] INTernal | EXTernal
[ :SOURce ]:RADio:ARB:CLOCK:REFerence [ :SOURce ]?
```

NOTE Using the above command will set the reference source to internal or external for all arb personalities. The ESG Vector Signal Generator (E4438C) has commands to set the reference source for each arb personality. For more information on this command, see the SCPI Command Reference.

EDGE Subsystem

Compatible Commands

```
[ :SOURce]:RADio:EDGE:ALPHA <val>
[ :SOURce]:RADio:EDGE:ALPHA?

[ :SOURce]:RADio:EDGE:BBCLock INT[1]|EXT[1]
[ :SOURce]:RADio:EDGE:BBCLock?

[ :SOURce]:RADio:EDGE:BBT <val>
[ :SOURce]:RADio:EDGE:BBT?

[ :SOURce]:RADio:EDGE:BNCMux:DCOut BCLock|GCLock
[ :SOURce]:RADio:EDGE:BNCMux:DCOut?

[ :SOURce]:RADio:EDGE:BNCMux:DOUT MDATa|EDATa
[ :SOURce]:RADio:EDGE:BNCMux:DOUT?

[ :SOURce]:RADio:EDGE:BNCMux:EVENT MTRigger|FTRigger
[ :SOURce]:RADio:EDGE:BNCMux:EVENT?

[ :SOURce]:RADio:EDGE:BNCMux:SSOut IGAT|TBSync
[ :SOURce]:RADio:EDGE:BNCMux:SSOut?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:DELaY <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:DELaY?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:TIME <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FALL:TIME?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FDELaY <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FDELaY?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FTIME <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:FTIME?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RDELaY <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RDELaY?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:DELaY <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:DELaY?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RISE:TIME?

[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RTIME <val>
[ :SOURce]:RADio:EDGE:BURSt:SHAPE:RTIME?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:EDGE:BURSt:SHAPE[:TYPE] SINE | "<file name>"
[ :SOURce ]:RADio:EDGE:BURSt:SHAPE[:TYPE]?

[ :SOURce ]:RADio:EDGE:BURSt[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:EDGE:BURSt[:STATe]?

[ :SOURce ]:RADio:EDGE:DATA PN9 | PN15 | FIX4 | "<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ]:RADio:EDGE:DATA?

[ :SOURce ]:RADio:EDGE:DATA:FIX4 <val>
[ :SOURce ]:RADio:EDGE:DATA:FIX4?

[ :SOURce ]:RADio:EDGE:DEFault

[ :SOURce ]:RADio:EDGE:EDATa:DELay?

[ :SOURce ]:RADio:EDGE:EDCLock SYMBOL | NORMAl
[ :SOURce ]:RADio:EDGE:EDCLock?

[ :SOURce ]:RADio:EDGE:EREFerence ON | OFF | 1 | 0
[ :SOURce ]:RADio:EDGE:EREFerence?

[ :SOURce ]:RADio:EDGE:FILTer RNYQuist | NYQuist | GAUSSian | RECTangle | IS95 | IS95_EQ |
IS95_MOD | IS95_MOD_EQ | EDGE | AC4Fm | IS2000SR3DS | UGGaussian | "<user FIR>"
[ :SOURce ]:RADio:EDGE:FILTer?

[ :SOURce ]:RADio:EDGE:IQ:SCALE <val>
[ :SOURce ]:RADio:EDGE:IQ:SCALE?

[ :SOURce ]:RADio:EDGE:MODulation:FSK[:DEViation] <val>
[ :SOURce ]:RADio:EDGE:MODulation:FSK[:DEViation]?

[ :SOURce ]:RADio:EDGE:MODulation:MSK[:PHASe] <val>
[ :SOURce ]:RADio:EDGE:MODulation:MSK[:PHASe]?

[ :SOURce ]:RADio:EDGE:MODulation:UFSK "<file name>"
[ :SOURce ]:RADio:EDGE:MODulation:UFSK?

[ :SOURce ]:RADio:EDGE:MODulation:UIQ "<file name>"
[ :SOURce ]:RADio:EDGE:MODulation:UIQ?

[ :SOURce ]:RADio:EDGE:MODulation[:TYPE] BPSK | QPSK | IS95QPSK | GRAYQPSK | OQPSK |
IS95OQPSK | P4DQPSK | PSK8 | PSK16 | D8PSK | MSK | FSK2 | FSK4 | FSK8 | FSK16 | C4FM | QAM4 | QAM16 |
QAM32 | QAM64 | QAM256 | EDGE | UIQ | UFSK
[ :SOURce ]:RADio:EDGE:MODulation[:TYPE]?

[ :SOURce ]:RADio:EDGE:POLarity[:ALL] NORMAl | INVERTed
[ :SOURce ]:RADio:EDGE:POLarity[:ALL]?

[ :SOURce ]:RADio:EDGE:SECondary:RECall
```

```
[ :SOURce ]:RADio:EDGE:SECOndary:SAVE
[ :SOURce ]:RADio:EDGE:SECOndary:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:EDGE:SECOndary:TRIGger[ :SOURce ]?
[ :SOURce ]:RADio:EDGE:SECOndary[ :STATE ] ON|OFF|1|0
[ :SOURce ]:RADio:EDGE:SECOndary[ :STATE ]?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :CUSTom PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :CUSTom?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :CUSTom:FIX4 <val>
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :CUSTom:FIX4?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :CUSTom:GUARd <val>
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :CUSTom:GUARd?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64 | DMCS9 | UMCS9 | DMCS5 | UMCS5 | ETCHF43 | UNCOded
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:DLINK:MCS5:
DATA PN9 | PN15
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:DLINK:MCS5:DATA?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:DLINK:MCS9:
DATA PN9 | PN15
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:DLINK:MCS9:DATA?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:ETCH:F43:
DATA PN9 | PN15
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:ETCH:F43:DATA?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:FIX4 <0-15>
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:FIX4?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:ULINK:MCS5:
DATA PN9 | PN15
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:ULINK:MCS5:DATA?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:ULINK:MCS9:
DATA PN9 | PN15
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:ULINK:MCS9:DATA?
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:UNCOded PN9 | PN15
[ :SOURce ]:RADio:EDGE:SLOT0 | [1] | 2 | 3 | 4 | 5 | 6 | 7 :NORMal:ENCRyption:UNCOded?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:GUARd <val>
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:GUARd?

[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:T1 <val>
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:T1?

[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:T2 <val>
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:T2?

[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:TSEquence TSC0 | TSC1 | TSC2 |
TSC3 | TSC4 | TSC5 | TSC6 | TSC7 | <val>
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:NORMal:TSEquence?

[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:POWer MAIN | DELTA
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:POWer?

[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:STATe ON | OFF | 1 | 0
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:STATe?

[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7[:TYPE] CUSTom | NORMal | NORMAL_ALL
[ :SOURce ]:RADio:EDGE:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7[:TYPE]?

[ :SOURce ]:RADio:EDGE:SOUT FRAME | SLOT | ALL
[ :SOURce ]:RADio:EDGE:SOUT?

[ :SOURce ]:RADio:EDGE:SOUT:OFFSet <val>
[ :SOURce ]:RADio:EDGE:SOUT:OFFSet?

[ :SOURce ]:RADio:EDGE:SOUT:SLOT <val>
[ :SOURce ]:RADio:EDGE:SOUT:SLOT?

[ :SOURce ]:RADio:EDGE:SRATe <val>
[ :SOURce ]:RADio:EDGE:SRATe?

[ :SOURce ]:RADio:EDGE:TRIGger[ :SOURce ] KEY | EXT | BUS
[ :SOURce ]:RADio:EDGE:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:EDGE:TRIGger[ :SOURce ]:EXTernal:DELay <val>
[ :SOURce ]:RADio:EDGE:TRIGger[ :SOURce ]:EXTernal:DELay?

[ :SOURce ]:RADio:EDGE:TRIGger[ :SOURce ]:EXTernal:DELay:STATe ON | OFF | 1 | 0
[ :SOURce ]:RADio:EDGE:TRIGger[ :SOURce ]:EXTernal:DELay:STATe?

[ :SOURce ]:RADio:EDGE[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:EDGE[:STATe]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:EDGE:CHANnel EVM|ACP
[ :SOURce ]:RADio:EDGE:CHANnel?

[ :SOURce ]:RADio:EDGE:FCHannel:BAND BPGSm|MPGSm|BEGSm|MEGSm|BRGSm|MRGSm|BDCS|
MDCS|BPCS|MPCS
[ :SOURce ]:RADio:EDGE:FCHannel:BAND?

[ :SOURce ]:RADio:EDGE:FCHannel:NUMBER <val>
[ :SOURce ]:RADio:EDGE:FCHannel:NUMBER?

[ :SOURce ]:RADio:EDGE:FCHannel[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:EDGE:FCHannel[:STATE]?

[ :SOURce ]:RADio:EDGE:REPEAT SINGLE|CONTinuous
[ :SOURce ]:RADio:EDGE:REPEAT?

[ :SOURce ]:RADio:EDGE:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGLE|GATE|
RESet|MANual
[ :SOURce ]:RADio:EDGE:TRIGger[:SOURce]:EXTErnal[:TYPE]?
```

GSM Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:GSM:ALPHa <val>
[ :SOURce ]:RADio:GSM:ALPHa?

[ :SOURce ]:RADio:GSM:BBCLock INT[1]|EXT[1]
[ :SOURce ]:RADio:GSM:BBCLock?

[ :SOURce ]:RADio:GSM:BBT <val>
[ :SOURce ]:RADio:GSM:BBT?

[ :SOURce ]:RADio:GSM:BRATe <val>
[ :SOURce ]:RADio:GSM:BRATe?

[ :SOURce ]:RADio:GSM:BURSt:PN9 NORMAl|QUICk
[ :SOURce ]:RADio:GSM:BURSt:PN9?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FALL:DELay <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FALL:DELay?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FALL:TIME <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FALL:TIME?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FDELay <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FDELay?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FTIME <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:FTIME?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RDElay <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RDElay?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RISE:DElay <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RISE:DElay?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RISE:TIME?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RTIME <val>
[ :SOURce ]:RADio:GSM:BURSt:SHAPE:RTIME?

[ :SOURce ]:RADio:GSM:BURSt:SHAPE[:TYPE] SINE| "<file name>"
[ :SOURce ]:RADio:GSM:BURSt:SHAPE[:TYPE]?

[ :SOURce ]:RADio:GSM:BURSt[:STATe] ON|OFF|1|0
[ :SOURce ]:RADio:GSM:BURSt[:STATe]?

[ :SOURce ]:RADio:GSM:DATA PN9|PN15|FIX4| "<file name>" |EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:GSM:DATA?

[ :SOURce ]:RADio:GSM:DATA:FIX4 <val>
[ :SOURce ]:RADio:GSM:DATA:FIX4?

[ :SOURce ]:RADio:GSM:DEFault

[ :SOURce ]:RADio:GSM:DENCode ON|OFF|1|0
[ :SOURce ]:RADio:GSM:DENCode?

[ :SOURce ]:RADio:GSM:EDATa:DElay?

[ :SOURce ]:RADio:GSM:EDCLock SYMBOL|NORMal
[ :SOURce ]:RADio:GSM:EDCLock?

[ :SOURce ]:RADio:GSM:EREFerence ON|OFF|1|0
[ :SOURce ]:RADio:GSM:EREFerence?

[ :SOURce ]:RADio:GSM:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|IS95_EQ|
IS95_MOD|IS95_MOD_EQ|GSM|AC4Fm|IS2000SR3DS|UGGaussian| "<user FIR>"
[ :SOURce ]:RADio:GSM:FILTer?

[ :SOURce ]:RADio:GSM:IQ:SCALE <val>
[ :SOURce ]:RADio:GSM:IQ:SCALE?

[ :SOURce ]:RADio:GSM:MODulation:FSK[:DEVIation] <val>
[ :SOURce ]:RADio:GSM:MODulation:FSK[:DEVIation]?
```

```
[ :SOURce]:RADio:GSM:MODulation:MSK[:PHASe] <val>
[:SOURce]:RADio:GSM:MODulation:MSK[:PHASe]?

[:SOURce]:RADio:GSM:MODulation:UFSK "<file name>"
[:SOURce]:RADio:GSM:MODulation:UFSK?

[:SOURce]:RADio:GSM:MODulation:UIQ "<file name>"
[:SOURce]:RADio:GSM:MODulation:UIQ?

[:SOURce]:RADio:GSM:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|GSM|UIQ|UFSK
[:SOURce]:RADio:GSM:MODulation[:TYPE]?

[:SOURce]:RADio:GSM:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:GSM:POLarity[:ALL]?

[:SOURce]:RADio:GSM:SECondary:RECall
[:SOURce]:RADio:GSM:SECondary:SAVE

[:SOURce]:RADio:GSM:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:GSM:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:GSM:SECondary[:STATE] ON|OFF|1|0
[:SOURce]:RADio:GSM:SECondary[:STATE]?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:
ENCRYption PN9|PN15|FIX4|"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ENCRYption?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ENCRYption:FIX4 <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ENCRYption:FIX4?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ETAIl <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:ETAIl?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:SSEquence <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:ACCess:SSEquence?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:FIX4 <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:FIX4?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:DUMMy:TSEquence TSC0|TSC1|
TSC2|TSC3|TSC4|TSC5|TSC6|TSC7|<val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom:DUMMy:TSEquence?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:CUSTom?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64|MPN9|MPN15|TCHFS|CS1|CS4|DMCS1|UMCS1
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:CS1:DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:CS1:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:CS4:DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:CS4:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:DLINK:MCS1:
DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:DLINK:MCS1:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:FIX4 <0-15>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:FIX4?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:TCH:FS:
DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:TCH:FS:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:ULINK:MCS1:
DATA PN9|PN15
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:ENCryption:ULINK:MCS1:DATA?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:STEal <val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:STEal?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:TSEquence TSC0|TSC1|TSC2|
TSC3|TSC4|TSC5|TSC6|TSC7|<val>
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:NORMal:TSEquence?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:POWer MAIN|DELTA
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:POWer?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:STATe ON|OFF|1|0
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:STATe?

[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCryption PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:GSM:SLOT0|[1]|2|3|4|5|6|7:SYNC:ENCryption?
```

```
[ :SOURce ]:RADio:GSM:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:SYNc:ENCRyption:FIX4 <val>
[ :SOURce ]:RADio:GSM:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:SYNc:ENCRyption:FIX4?

[ :SOURce ]:RADio:GSM:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:SYNc:ENCRyption:TSEquence <val>
[ :SOURce ]:RADio:GSM:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7:SYNc:ENCRyption:TSEquence?

[ :SOURce ]:RADio:GSM:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7[:TYPE] CUSTom | NORMAl | NORMAL_ALL
[ :SOURce ]:RADio:GSM:SLOT0 [1] | 2 | 3 | 4 | 5 | 6 | 7[:TYPE]?

[ :SOURce ]:RADio:GSM:SOUT FRAME | SLOT | ALL
[ :SOURce ]:RADio:GSM:SOUT?

[ :SOURce ]:RADio:GSM:SOUT:OFFSet <val>
[ :SOURce ]:RADio:GSM:SOUT:OFFSet?

[ :SOURce ]:RADio:GSM:SOUT:SLOT <val>
[ :SOURce ]:RADio:GSM:SOUT:SLOT?

[ :SOURce ]:RADio:GSM:SRATe <val>
[ :SOURce ]:RADio:GSM:SRATe?

[ :SOURce ]:RADio:GSM:TRIGger [ :SOURce ] KEY | EXT | BUS
[ :SOURce ]:RADio:GSM:TRIGger [ :SOURce ]?

[ :SOURce ]:RADio:GSM:TRIGger [ :SOURce ]:EXTernal:DELay <val>
[ :SOURce ]:RADio:GSM:TRIGger [ :SOURce ]:EXTernal:DELay?

[ :SOURce ]:RADio:GSM:TRIGger [ :SOURce ]:EXTernal:DELay:STATe ON | OFF | 1 | 0
[ :SOURce ]:RADio:GSM:TRIGger [ :SOURce ]:EXTernal:DELay:STATe?

[ :SOURce ]:RADio:GSM[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:GSM[:STATe]?


```

Non-Compatible Commands

```
[ :SOURce ]:RADio:GSM:CHANnel EVM | ACP
[ :SOURce ]:RADio:GSM:CHANnel?

[ :SOURce ]:RADio:GSM:FCHannel: BAND BPGSm | MPGSm | BEGSm | MEGSm | BRGSm | MRGSm | BDCS |
MDCS | BPCS | MPCS
[ :SOURce ]:RADio:GSM:FCHannel: BAND?

[ :SOURce ]:RADio:GSM:FCHannel: NUMBer <val>
[ :SOURce ]:RADio:GSM:FCHannel: NUMBer?

[ :SOURce ]:RADio:GSM:FCHannel[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:GSM:FCHannel[:STATe]?

[ :SOURce ]:RADio:GSM:REPeat SINGLE | CONTinuous
[ :SOURce ]:RADio:GSM:REPeat?


```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio:GSM:TRIGger [ :SOURce ] :EXTernal [ :TYPE ] SINGLE | GATE |  
RESet | MANual  
[ :SOURce ] :RADio:GSM:TRIGger [ :SOURce ] :EXTernal [ :TYPE ] ?
```

Input Subsystem

Compatible Commands

```
:INPut:BERT [ :BASEband ] :CGATe:POLarity POSitive | NEGative  
:INPut:BERT [ :BASEband ] :CGATe:POLarity?  
  
:INPut:BERT [ :BASEband ] :CGATe [ :STATe ] ON | OFF | 1 | 0  
:INPut:BERT [ :BASEband ] :CGATe [ :STATe ] ?  
  
:INPut:BERT [ :BASEband ] :CLOCK:POLarity POSitive | NEGative  
:INPut:BERT [ :BASEband ] :CLOCK:POLarity?  
  
:INPut:BERT [ :BASEband ] :DATA:POLarity POSitive | NEGative  
:INPut:BERT [ :BASEband ] :DATA:POLarity?  
  
:INPut:BERT [ :BASEband ] :IMPedance OHM_75 | HIGH  
:INPut:BERT [ :BASEband ] :IMPedance?
```

Non-Compatible Commands

```
:INPut:BERT [ :BASEband ] :IMPedance TTL
```

Measure Subsystem

Compatible Commands

```
:MEASure [ :SCALar ] :BERT:BTS:LOOPback:EDGE:MCS5 [ :SENSitivity ] ?  
:MEASure [ :SCALar ] :BERT:BTS:LOOPback:EDGE:MCS9 [ :SENSitivity ] ?  
:MEASure [ :SCALar ] :BERT:BTS:LOOPback:EDGE:UNCoded [ :SENSitivity ] ?  
:MEASure [ :SCALar ] :BERT:BTS:LOOPback:GSM [ :SENSitivity ] ?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Multi-Tone Subsystem

Compatible Commands

```
[ :SOURce]:RADio:MTONE:ARB:SETup "<file name>"
[ :SOURce]:RADio:MTONE:ARB:SETup?

[ :SOURce]:RADio:MTONE:ARB:SETup:STORe "<file name>"

[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE <freq_spacing>,<num_tones>{,<phase>,<state>}
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE?

[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:FSPacing <freq_spacing>
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:FSPacing?

[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:NTONes <num_tones>
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:NTONes?

[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASe:INITialize FIXed|RANDom
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASe:INITialize?

[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASe:INITialize:SEED FIXed|RANDom
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:PHASe:INITialize:SEED?

[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:ROW <row_number>,<power>,<phase>,<state>
[ :SOURce]:RADio:MTONE:ARB:SETup:TABLE:ROW? <row_number>

[ :SOURce]:RADio:MTONE:ARB[:STATe] ON|OFF|1|0
[ :SOURce]:RADio:MTONE:ARB[:STATe]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

NADC Subsystem

Compatible Commands

```
[ :SOURce]:RADio:NADC:BURSt:SHAPE[:TYPE] SINE|"<file name>"
[ :SOURce]:RADio:NADC:BURSt:SHAPE[:TYPE]?

[ :SOURce]:RADio[:NADC]:ALPHa <val>
[ :SOURce]:RADio[:NADC]:ALPHa?

[ :SOURce]:RADio[:NADC]:BBCLock INT[1]|EXT[1]
[ :SOURce]:RADio[:NADC]:BBCLock?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio [ :NADC ] :BBT <val>
[ :SOURce ] :RADio [ :NADC ] :BBT?

[ :SOURce ] :RADio [ :NADC ] :BRATe <val>
[ :SOURce ] :RADio [ :NADC ] :BRATe?

[ :SOURce ] :RADio [ :NADC ] :BURSt :PN9 NORMAl | QUICk
[ :SOURce ] :RADio [ :NADC ] :BURSt :PN9?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :DELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :DELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :TIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FALL :TIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FDELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FDELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FTIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :FTIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RDELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RDELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :DELay <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :DELay?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :TIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RISE :TIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RTIME <val>
[ :SOURce ] :RADio [ :NADC ] :BURSt :SHAPE :RTIME?

[ :SOURce ] :RADio [ :NADC ] :BURSt [ :STATe ] ON | OFF | 1 | 0
[ :SOURce ] :RADio [ :NADC ] :BURSt [ :STATe ]?

[ :SOURce ] :RADio [ :NADC ] :CHANnel EVM | ACP
[ :SOURce ] :RADio [ :NADC ] :CHANnel?

[ :SOURce ] :RADio [ :NADC ] :DATA PN9 | PN11 | PN15 | PN20 | PN23 | FIX4 | "<file name>" |
EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ] :RADio [ :NADC ] :DATA?

[ :SOURce ] :RADio [ :NADC ] :DATA :FIX4 <val>
[ :SOURce ] :RADio [ :NADC ] :DATA :FIX4?

[ :SOURce ] :RADio [ :NADC ] :DEFault

[ :SOURce ] :RADio [ :NADC ] :EDATa :DELay?
```

```

[:SOURce]:RADio[:NADC]:EDCLock SYMBol|NORMal
[:SOURce]:RADio[:NADC]:EDCLock?

[:SOURce]:RADio[:NADC]:FCHannel:BAND BASE|MOBile
[:SOURce]:RADio[:NADC]:FCHannel:BAND?

[:SOURce]:RADio[:NADC]:FCHannel:NUMBER <number>
[:SOURce]:RADio[:NADC]:FCHannel:NUMBER?

[:SOURce]:RADio[:NADC]:FCHannel[:STATe] ON|OFF|1|0
[:SOURce]:RADio[:NADC]:FCHannel[:STATe]?

[:SOURce]:RADio[:NADC]:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio[:NADC]:FILTer?

[:SOURce]:RADio[:NADC]:FRATe FULL|HALF
[:SOURce]:RADio[:NADC]:FRATe?

[:SOURce]:RADio[:NADC]:IQ:SCALE <val>
[:SOURce]:RADio[:NADC]:IQ:SCALE?

[:SOURce]:RADio[:NADC]:MODulation:FSK[:DEViation] <val><unit>
[:SOURce]:RADio[:NADC]:MODulation:FSK[:DEViation]?

[:SOURce]:RADio[:NADC]:MODulation:MSK[:PHASe] <val><unit>
[:SOURce]:RADio[:NADC]:MODulation:MSK[:PHASe]?

[:SOURce]:RADio[:NADC]:MODulation:UFSK "<file name>"
[:SOURce]:RADio[:NADC]:MODulation:UFSK?

[:SOURce]:RADio[:NADC]:MODulation:UIQ "<file name>"
[:SOURce]:RADio[:NADC]:MODulation:UIQ?

[:SOURce]:RADio[:NADC]:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio[:NADC]:MODulation[:TYPE]?

[:SOURce]:RADio[:NADC]:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio[:NADC]:POLarity[:ALL]?

[:SOURce]:RADio[:NADC]:REPeat SINGLE|CONTinuous
[:SOURce]:RADio[:NADC]:REPeat?

[:SOURce]:RADio[:NADC]:SECondary:RECall

[:SOURce]:RADio[:NADC]:SECondary:SAVE
  
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio [ :NADC ] :SECOndary :TRIGger [ :SOURce ] KEY | EXT | BUS
[ :SOURce ] :RADio [ :NADC ] :SECOndary :TRIGger [ :SOURce ] ?

[ :SOURce ] :RADio [ :NADC ] :SECOndary [ :STATE ] ON | OFF | 1 | 0
[ :SOURce ] :RADio [ :NADC ] :SECOndary [ :STATE ] ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DCCustom PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DCCustom ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DCCustom :FIX4 <val>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DCCustom :FIX4 ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :CDLocator <bit_pattern>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :CDLocator ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :CDVCcode <bit_pattern>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :CDVCcode ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :SACChannel <bit_pattern>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :SACChannel ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :SWORD <bit_pattern>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel :SWORD ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel [ :DATA ] PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel [ :DATA ] ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel [ :DATA ] :FIX4 <val>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :DTCHannel [ :DATA ] :FIX4 ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :POWER MAIN | DELTA
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :POWER ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :STATE ON | OFF | 1 | 0
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :STATE ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :UCUStom PN9 | PN15 | FIX4 | "<file name>" |
EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :UCUStom ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :UCUStom :FIX4 <val>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :UCUStom :FIX4 ?

[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :UTCHannel :CDVCcode <bit_pattern>
[ :SOURce ] :RADio [ :NADC ] :SLOT [ 1 ] | 2 | 3 | 4 | 5 | 6 :UTCHannel :CDVCcode ?
```

```
[ :SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SACChannel <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SACChannel?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SWORd <bit_pattern>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel:SWORd?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA]?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA]:FIX4 <val>
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6:UTCHannel[:DATA]:FIX4?

[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6[:TYPE] UCUSTom|DCUSTom|UTCH|
UTCH_ALL|DTCH|DTCH_ALL
[:SOURce]:RADio[:NADC]:SLOT[1]|2|3|4|5|6[:TYPE]?

[:SOURce]:RADio[:NADC]:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio[:NADC]:SOUT?

[:SOURce]:RADio[:NADC]:SOUT:OFFSet <val>
[:SOURce]:RADio[:NADC]:SOUT:OFFSet?

[:SOURce]:RADio[:NADC]:SOUT:SLOT <val>
[:SOURce]:RADio[:NADC]:SOUT:SLOT?

[:SOURce]:RADio[:NADC]:SRATe <val>
[:SOURce]:RADio[:NADC]:SRATe?

[:SOURce]:RADio[:NADC]:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]?

[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal:DELAy:STATe ON|OFF|1|0
[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal:DELAy:STATe?

[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGle|GATE|RESet|
MANual
[:SOURce]:RADio[:NADC]:TRIGger[:SOURce]:EXTErnal[:TYPE]?

[:SOURce]:RADio[:NADC][:STATe] ON|OFF|1|0
[:SOURce]:RADio[:NADC][:STATe]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

PDC Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:PDC:ALPHa <val>  
[ :SOURce ]:RADio:PDC:ALPHa?  
  
[ :SOURce ]:RADio:PDC:BBCLock INT[1]|EXT[1]  
[ :SOURce ]:RADio:PDC:BBCLock?  
  
[ :SOURce ]:RADio:PDC:BBT <val>  
[ :SOURce ]:RADio:PDC:BBT?  
  
[ :SOURce ]:RADio:PDC:BRATe <val>  
[ :SOURce ]:RADio:PDC:BRATe?  
  
[ :SOURce ]:RADio:PDC:BURSt:PN9 NORMal|QUICK  
[ :SOURce ]:RADio:PDC:BURSt:PN9?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FALL:DELay <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FALL:DELay?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FALL:TIME <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FALL:TIME?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FDELay <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FDELay?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FTIME <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:FTIME?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RDELay <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RDELay?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RISE:DELay <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RISE:DELay?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RISE:TIME <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RISE:TIME?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RTIME <val>  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE:RTIME?  
  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE[:TYPE] SINE| "<file name>"  
[ :SOURce ]:RADio:PDC:BURSt:SHAPE[:TYPE]  
  
[ :SOURce ]:RADio:PDC:BURSt[:STATe] ON|OFF|1|0  
[ :SOURce ]:RADio:PDC:BURSt[:STATe]?
```

```
[ :SOURce]:RADio:PDC:DATA PN9|PN11|PN15|PN20|PN23|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:PDC:DATA?

[:SOURce]:RADio:PDC:DATA:FIX4 <0-15>
[:SOURce]:RADio:PDC:DATA:FIX4?

[:SOURce]:RADio:PDC:DEFault

[:SOURce]:RADio:PDC:EDATa:DELay?

[:SOURce]:RADio:PDC:EDCLock SYMBol|NORMal
[:SOURce]:RADio:PDC:EDCLock?

[:SOURce]:RADio:PDC:FILTEr RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[:SOURce]:RADio:PDC:FILTEr?

[:SOURce]:RADio:PDC:FRATE FULL|HALF
[:SOURce]:RADio:PDC:FRATE?

[:SOURce]:RADio:PDC:IQ:SCALE <val>
[:SOURce]:RADio:PDC:IQ:SCALE?

[:SOURce]:RADio:PDC:MODulation:FSK[:DEViation] <val><unit>
[:SOURce]:RADio:PDC:MODulation:FSK[:DEViation]?

[:SOURce]:RADio:PDC:MODulation:MSK[:PHASe] <val><unit>
[:SOURce]:RADio:PDC:MODulation:MSK[:PHASe]?

[:SOURce]:RADio:PDC:MODulation:UFSK "<file name>"
[:SOURce]:RADio:PDC:MODulation:UFSK?

[:SOURce]:RADio:PDC:MODulation:UIQ "<file name>"
[:SOURce]:RADio:PDC:MODulation:UIQ

[:SOURce]:RADio:PDC:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|
OQPSK|IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|
FSK16|C4FM|QAM4|QAM16|QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio:PDC:MODulation[:TYPE]?

[:SOURce]:RADio:PDC:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:PDC:POLarity[:ALL]?

[:SOURce]:RADio:PDC:SECondary:RECall

[:SOURce]:RADio:PDC:SECondary:SAVE

[:SOURce]:RADio:PDC:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:PDC:SECondary:TRIGger[:SOURce]?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:PDC:SECondary[ :STATE] ON|OFF|1|0
[ :SOURce ]:RADio:PDC:SECondary[ :STATE]?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DCUStom PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DCUStom?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DCUStom:FIX4 <0-15>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DCUStom:FIX4?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel:CCODE <bit_pattern>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel:CCODE?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel:SACChannel <bit_pattern>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel:SACChannel?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel:SWORd <bit_pattern>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel:SWORd?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel[ :TCHannel] PN9|PN15|
FIX4|"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel[ :TCHannel]?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel[ :TCHannel]:FIX4 <0-15>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:DTCHannel[ :TCHannel]:FIX4?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:POWer MAIN|DELTA
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:POWer?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:STATE ON|OFF|1|0
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:STATE?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UCUStom PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UCUStom?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UCUStom:FIX4 <0-15>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UCUStom:FIX4?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel:CCODE <bit_pattern>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel:CCODE?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel:SACChannel <bit_pattern>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel:SACChannel?

[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel:SWORd <bit_pattern>
[ :SOURce ]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel:SWORd?
```

```
[ :SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel[:TCHannel] PN9|PN15 |
FIX4 | "<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel[:TCHannel]?

[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel[:TCHannel]:FIX4 <0-15>
[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UTCHannel[:TCHannel]:FIX4?

[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UVOX:CCODE <bit_pattern>
[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UVOX:CCODE?

[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UVOX:SACChannel <bit_pattern>
[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UVOX:SACChannel?

[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UVOX:SWORd <bit_pattern>
[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5:UVOX:SWORd?

[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5[:TYPE] UCUStom|DCUStom|UTCH|
UTCH_ALL|UVOX|DTCH|DTCH_ALL
[:SOURce]:RADio:PDC:SLOT0 | [1] | 2 | 3 | 4 | 5[:TYPE]?

[:SOURce]:RADio:PDC:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:PDC:SOUT?

[:SOURce]:RADio:PDC:SOUT:OFFSet <val>
[:SOURce]:RADio:PDC:SOUT:OFFSet?

[:SOURce]:RADio:PDC:SOUT:SLOT <val>
[:SOURce]:RADio:PDC:SOUT:SLOT?

[:SOURce]:RADio:PDC:SRATE <val>
[:SOURce]:RADio:PDC:SRATE?

[:SOURce]:RADio:PDC:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:PDC:TRIGger[:SOURce]?

[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy <val>
[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy?

[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy:STATE ON|OFF|1|0
[:SOURce]:RADio:PDC:TRIGger[:SOURce]:EXTErnal:DELAy:STATE?

[:SOURce]:RADio:PDC[:STATE] ON|OFF|1|0
[:SOURce]:RADio:PDC[:STATE]?
```

Non-Compatible Commands

```
[ :SOURce]:RADio:PDC:CHANnel EVM|ACP
[:SOURce]:RADio:PDC:CHANnel?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:PDC:FCHannel:BAND B8|M8|B15|M15
[ :SOURce ]:RADio:PDC:FCHannel:BAND?

[ :SOURce ]:RADio:PDC:FCHannel:NUMBer <number>
[ :SOURce ]:RADio:PDC:FCHannel:NUMBer?

[ :SOURce ]:RADio:PDC:FCHannel[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:PDC:FCHannel[:STATE]?

[ :SOURce ]:RADio:PDC:REPeat SINGLE|CONTinuous
[ :SOURce ]:RADio:PDC:REPeat?

[ :SOURce ]:RADio:PDC:TRIGger[:SOURce]:EXTernal[:TYPE] SINGLE|GATE|RESet
[ :SOURce ]:RADio:PDC:TRIGger[:SOURce]:EXTernal[:TYPE]?
```

PHS Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:PHS:ALPHa <val>
[ :SOURce ]:RADio:PHS:ALPHa?

[ :SOURce ]:RADio:PHS:BBCLock INT[1]|EXT[1]
[ :SOURce ]:RADio:PHS:BBCLock?

[ :SOURce ]:RADio:PHS:BBT <val>
[ :SOURce ]:RADio:PHS:BBT?

[ :SOURce ]:RADio:PHS:BRATe <val>
[ :SOURce ]:RADio:PHS:BRATe?

[ :SOURce ]:RADio:PHS:BURSt:PN9 NORMal|QUICK
[ :SOURce ]:RADio:PHS:BURSt:PN9?

[ :SOURce ]:RADio:PHS:BURSt:SCRamble:SEED <16-bit val>
[ :SOURce ]:RADio:PHS:BURSt:SCRamble:SEED?

[ :SOURce ]:RADio:PHS:BURSt:SCRamble[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:PHS:BURSt:SCRamble[:STATE]?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FALL:DELay <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FALL:DELay?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FALL:TIME <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FALL:TIME?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FDELay <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FDELay?
```

```
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FTIME <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:FTIME?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RDElay <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RDElay?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RISE:DElay <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RISE:DElay?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RISE:TIME <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RISE:TIME?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RTIME <val>
[ :SOURce ]:RADio:PHS:BURSt:SHAPE:RTIME?

[ :SOURce ]:RADio:PHS:BURSt:SHAPE[:TYPE] SINE| "<file name>"
[ :SOURce ]:RADio:PHS:BURSt:SHAPE[:TYPE]?

[ :SOURce ]:RADio:PHS:BURSt[:STATe] ON|OFF|1|0
[ :SOURce ]:RADio:PHS:BURSt[:STATe]?

[ :SOURce ]:RADio:PHS:DATA PN9|PN11|PN15|PN20|PN23|FIX4| "<file name>" |EXT|P4|
P8|P16|P32|P64
[ :SOURce ]:RADio:PHS:DATA?

[ :SOURce ]:RADio:PHS:DATA:FIX4 <val>
[ :SOURce ]:RADio:PHS:DATA:FIX4?

[ :SOURce ]:RADio:PHS:DEFault

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:CUSTom PN9|PN15|FIX4| "<file name>" |
EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:CUSTom?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:CUSTom:FIX4 <val>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:CUSTom:FIX4?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:POWer MAIN|DELTA
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:POWer?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:SCHannel:CSID <bit_pattern>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:SCHannel:CSID?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:SCHannel:IDLE <bit_pattern>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:SCHannel:IDLE?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:SCHannel:PSID <bit_pattern>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1]|2|3|4:SCHannel:PSID?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:SCHannel:UWORD <bit_pattern>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:SCHannel:UWORD?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:STATe ON|OFF|1|0
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:STATe?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel:SACChannel <bit_pattern>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel:SACChannel?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel:UWORD <bit_pattern>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel:UWORD?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel]?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel]:FIX4 <val>
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel]:FIX4?

[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4[:TYPE] CUSTOM|TCH|TCH_ALL|SYNC
[ :SOURce ]:RADio:PHS:DLINK:SLOT[1] | 2 | 3 | 4[:TYPE]?

[ :SOURce ]:RADio:PHS:EDATa:DELAy?

[ :SOURce ]:RADio:PHS:EDCLock SYMBol|NORMal
[ :SOURce ]:RADio:PHS:EDCLock?

[ :SOURce ]:RADio:PHS:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|IS95_EQ|
IS95_MOD|IS95_MOD_EQ|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[ :SOURce ]:RADio:PHS:FILTer?

[ :SOURce ]:RADio:PHS:IQ:SCALE <val>
[ :SOURce ]:RADio:PHS:IQ:SCALE?

[ :SOURce ]:RADio:PHS:MODulation:FSK[:DEVIation] <val><unit>
[ :SOURce ]:RADio:PHS:MODulation:FSK[:DEVIation]?

[ :SOURce ]:RADio:PHS:MODulation:MSK[:PHASe] <val><unit>
[ :SOURce ]:RADio:PHS:MODulation:MSK[:PHASe]?

[ :SOURce ]:RADio:PHS:MODulation:UFSK "<file name>"
[ :SOURce ]:RADio:PHS:MODulation:UFSK?

[ :SOURce ]:RADio:PHS:MODulation:UIQ "<file name>"
[ :SOURce ]:RADio:PHS:MODulation:UIQ?
```

```
[ :SOURce]:RADio:PHS:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio:PHS:MODulation[:TYPE]?

[:SOURce]:RADio:PHS:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:PHS:POLarity[:ALL]?

[:SOURce]:RADio:PHS:SECondary:RECall

[:SOURce]:RADio:PHS:SECondary:SAVE

[:SOURce]:RADio:PHS:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:PHS:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:PHS:SECondary[:STATE] ON|OFF|1|0
[:SOURce]:RADio:PHS:SECondary[:STATE]?

[:SOURce]:RADio:PHS:SOUT FRAME|SLOT|ALL
[:SOURce]:RADio:PHS:SOUT?

[:SOURce]:RADio:PHS:SOUT:OFFSet <val>
[:SOURce]:RADio:PHS:SOUT:OFFSet?

[:SOURce]:RADio:PHS:SOUT:SLOT <val>
[:SOURce]:RADio:PHS:SOUT:SLOT?

[:SOURce]:RADio:PHS:SRATe <val>
[:SOURce]:RADio:PHS:SRATe?

[:SOURce]:RADio:PHS:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:PHS:TRIGger[:SOURce]?

[:SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay <val>
[:SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay?

[:SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay:STATe ON|OFF|1|0
[:SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTernal:DELay:STATe?

[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:CUSTom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:CUSTom?

[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:CUSTom:FIX4 <val>
[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:CUSTom:FIX4?

[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:POWer MAIN|DELTA
[:SOURce]:RADio:PHS:ULINK:SLOT[1]|2|3|4:POWer?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:CSID <bit_pattern>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:CSID?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:IDLE <bit_pattern>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:IDLE?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:PSID <bit_pattern>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:PSID?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:UWORD <bit_pattern>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:SCHannel:UWORD?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:STate ON|OFF|1|0
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:STate?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel:SACChannel <bit_pattern>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel:SACChannel?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel:UWORD <bit_pattern>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel:UWORD?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel] PN9|PN15|FIX4 |
"<file name>" |EXT|P4|P8|P16|P32|P64
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel]?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel]:FIX4 <val>
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4:TCHannel[:TCHannel]:FIX4?

[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4[:TYPE] CUSTOM|TCH|TCH_ALL|SYNC
[ :SOURce ]:RADio:PHS:ULINK:SLOT[1] | 2 | 3 | 4[:TYPE]?

[ :SOURce ]:RADio:PHS[:STate] ON|OFF|1|0
[ :SOURce ]:RADio:PHS[:STate]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:PHS:CHANnel EVM|ACP
[ :SOURce ]:RADio:PHS:CHANnel?

[ :SOURce ]:RADio:PHS:FCHannel:BAND STANdard
[ :SOURce ]:RADio:PHS:FCHannel:BAND?

[ :SOURce ]:RADio:PHS:FCHannel:NUMBer <number>
[ :SOURce ]:RADio:PHS:FCHannel:NUMBer?

[ :SOURce ]:RADio:PHS:FCHannel[:STate] ON|OFF|1|0
[ :SOURce ]:RADio:PHS:FCHannel[:STate]?
```

```
[ :SOURce]:RADio:PHS:REPeat SINGLE|CONTInuous  
[ :SOURce]:RADio:PHS:REPeat?
```

```
[ :SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTErnal[:TYPE] SINGLE|GATE|RESet|MANual  
[ :SOURce]:RADio:PHS:TRIGger[:SOURce]:EXTErnal[:TYPE]?
```

Sense Subsystem

Compatible Commands

```
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:DELay <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:DELay?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:POLarity POSitive|NEGative  
:SENSe:BERT:BTS:LOOPback:EDGE:FTRigger:POLarity?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:BLOCK:COUNT <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:BLOCK:COUNT?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:CONTain ON|OFF|1|0  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:CONTain?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:ESENSitivity <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:ESENSitivity?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:HAMPLitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:HAMPLitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:LAMPLitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:LAMPLitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:PAMPLitude <val><unit>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:PAMPLitude?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLOCK:COUNT <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLOCK:COUNT?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLOCK:INITIAL <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:SBLOCK:INITIAL?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITERia:EBLOCK <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITERia:EBLOCK?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITERia[:SElect] EBLOCK|NONE  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS5:STOP:CRITERia[:SElect]?  
  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:BLOCK:COUNT <val>  
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:BLOCK:COUNT?
```

ESG E44xxB Commands

Digital Function Commands

```
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:CONtain ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:CONtain?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:ESENSitivity <val>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:ESENSitivity?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:HAMplitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:HAMplitude?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:LAMplitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:LAMplitude?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:PAMplitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:PAMplitude?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLOCK:COUNT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLOCK:COUNT?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLOCK:INITIAL <val>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:SBLOCK:INITIAL?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITERIA:EBLOCK <val>
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITERIA:EBLOCK?

:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITERIA[:SElect] EBLOCK|NONE
:SENSe:BERT:BTS:LOOPback:EDGE:MCS9:STOP:CRITERIA[:SElect]?

:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement:STOP

:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement:TSLot 0|1|2|3|4|5|6|7
:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement:TSLot?

:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement[:MODE] BLER|SSEARCH
:SENSe:BERT:BTS:LOOPback:EDGE:MEASurement[:MODE]?

:SENSe:BERT:BTS:LOOPback:EDGE:SINvert ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:EDGE:SINvert?

:SENSe:BERT:BTS:LOOPback:EDGE:SYNC:AGain

:SENSe:BERT:BTS:LOOPback:EDGE:SYNC:RF

:SENSe:BERT:BTS:LOOPback:EDGE:SYNC[:SOURce] BCH|PDCH
:SENSe:BERT:BTS:LOOPback:EDGE:SYNC[:SOURce]?

:SENSe:BERT:BTS:LOOPback:EDGE:TRIGger[:SOURce] IMMEDIATE|KEY|EXT|BUS
:SENSe:BERT:BTS:LOOPback:EDGE:TRIGger[:SOURce]?

:SENSe:BERT:BTS:LOOPback:EDGE:ULINK:OFFSet <val>
:SENSe:BERT:BTS:LOOPback:EDGE:ULINK:OFFSet?
```

```

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:BIT:COUNT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:BIT:COUNT?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:ESENSitivity <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:ESENSitivity?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:HAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:HAMPLitude?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:LAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:LAMPLitude?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:PAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:PAMPLitude?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:COUNT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:COUNT?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:INITial <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:SBIT:INITial?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria:EBIT <val>
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria:EBIT?

:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria[:SElect] EBIT|NONE
:SENSe:BERT:BTS:LOOPback:EDGE:UNCoded:STOP:CRITeria[:SElect]?

:SENSe:BERT:BTS:LOOPback:EDGE[:STATe] ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:EDGE[:STATe]?

:SENSe:BERT:BTS:LOOPback:GSM:ESENSitivity <val>
:SENSe:BERT:BTS:LOOPback:GSM:ESENSitivity?

:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:CIB?
:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:CII?

:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:COUNT <val>
:SENSe:BERT:BTS:LOOPback:GSM:FRAMe:COUNT?

:SENSe:BERT:BTS:LOOPback:GSM:HAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:GSM:HAMPLitude?

:SENSe:BERT:BTS:LOOPback:GSM:LAMPLitude <val><unit>
:SENSe:BERT:BTS:LOOPback:GSM:LAMPLitude?

:SENSe:BERT:BTS:LOOPback:GSM:MEASurement:STOP
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement:TSLot 0|1|2|3|4|5|6|7
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement:TSLot?

```

ESG E44xxB Commands

Digital Function Commands

```
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement[:MODE] BER|SSEarch
:SENSe:BERT:BTS:LOOPback:GSM:MEASurement[:MODE]?

:SENSe:BERT:BTS:LOOPback:GSM:PAMPlitude <val><unit>
:SENSe:BERT:BTS:LOOPback:GSM:PAMPlitude?

:SENSe:BERT:BTS:LOOPback:GSM:SFRame:COUNT <val>
:SENSe:BERT:BTS:LOOPback:GSM:SFRame:COUNT?

:SENSe:BERT:BTS:LOOPback:GSM:SFRame:INITial <val>
:SENSe:BERT:BTS:LOOPback:GSM:SFRame:INITial?

:SENSe:BERT:BTS:LOOPback:GSM:SINVert ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:GSM:SINVert?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CIB <val>
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CIB?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CII <val>
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:CII?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:FERasure <val>
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria:FERasure?

:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria[:SElect] FERasure|CLIB|CLII|ANY|
NONE
:SENSe:BERT:BTS:LOOPback:GSM:STOP:CRITeria[:SElect]?

:SENSe:BERT:BTS:LOOPback:GSM:SYNC:RF

:SENSe:BERT:BTS:LOOPback:GSM:SYNC[:SOURce] BCH|TCH
:SENSe:BERT:BTS:LOOPback:GSM:SYNC[:SOURce]?

:SENSe:BERT:BTS:LOOPback:GSM:TRIGger[:SOURce] IMMEDIATE|KEY|EXT|BUS
:SENSe:BERT:BTS:LOOPback:GSM:TRIGger[:SOURce]?

:SENSe:BERT:BTS:LOOPback:GSM:ULINK:OFFSet <val>
:SENSe:BERT:BTS:LOOPback:GSM:ULINK:OFFSet?

:SENSe:BERT:BTS:LOOPback:GSM[:STATE] ON|OFF|1|0
:SENSe:BERT:BTS:LOOPback:GSM[:STATE]?

:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore:DATA ALL_0|ALL_1
:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore:DATA?

:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore[:STATE] ON|OFF|1|0
:SENSe:BERT[:BASEband]:PRBS:FUNCTion:SPIgnore[:STATE]?

:SENSe:BERT[:BASEband]:PRBS[:DATA] PN9|PN15
:SENSe:BERT[:BASEband]:PRBS[:DATA]?
```

```

:SENSe:BERT[:BASEband]:RSYNc:THReshold <val>
:SENSe:BERT[:BASEband]:RSYNc:THReshold?

:SENSe:BERT[:BASEband]:RSYNc[:STATe] ON|OFF|1|0
:SENSe:BERT[:BASEband]:RSYNc[:STATe]?

:SENSe:BERT[:BASEband]:STATe ON|OFF|1|0
:SENSe:BERT[:BASEband]:STATe?

:SENSe:BERT[:BASEband]:TBITs <val>
:SENSe:BERT[:BASEband]:TBITs?

:SENSe:BERT[:BASEband]:TRIGger:BDELay <val>
:SENSe:BERT[:BASEband]:TRIGger:BDELay?

:SENSe:BERT[:BASEband]:TRIGger:BDELay:STATe ON|OFF|1|0
:SENSe:BERT[:BASEband]:TRIGger:BDELay:STATe?

:SENSe:BERT[:BASEband]:TRIGger:COUNt <val>
:SENSe:BERT[:BASEband]:TRIGger:COUNt?

:SENSe:BERT[:BASEband]:TRIGger[:SOURce] IMMEDIATE|KEY|EXT|BUS
:SENSe:BERT[:BASEband]:TRIGger[:SOURce]?
  
```

Non-Compatible Commands

```

:SENSe:BERT[:BASEband]:PRBS:MDRate BPS_2M|BPS_10M
:SENSe:BERT[:BASEband]:PRBS:MDRate?
  
```

TETRA Subsystem

Compatible Commands

```

[:SOURce]:RADio:TETRa:ALPHa <val>
[:SOURce]:RADio:TETRa:ALPHa?

[:SOURce]:RADio:TETRa:BBCLock INT[1]|EXT[1]
[:SOURce]:RADio:TETRa:BBCLock?

[:SOURce]:RADio:TETRa:BBT <val>
[:SOURce]:RADio:TETRa:BBT?

[:SOURce]:RADio:TETRa:BRATe <val>
[:SOURce]:RADio:TETRa:BRATe?

[:SOURce]:RADio:TETRa:BURSt:PN9 NORMAl|QUICK
[:SOURce]:RADio:TETRa:BURSt:PN9?
  
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:TETRa:BURSt:SCRamble:SEED <val>
[ :SOURce ]:RADio:TETRa:BURSt:SCRamble:SEED?

[ :SOURce ]:RADio:TETRa:BURSt:SCRamble[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:TETRa:BURSt:SCRamble[:STATE]?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FALL:DElay <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FALL:DElay?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FALL:TIME <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FALL:TIME?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FDElay <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FDElay?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FTIME <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:FTIME?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RDElay <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RDElay?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RISE:DElay <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RISE:DElay?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RISE:TIME <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RISE:TIME?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RTIME <val>
[ :SOURce ]:RADio:TETRa:BURSt:SHApe:RTIME?

[ :SOURce ]:RADio:TETRa:BURSt:SHApe[:TYPE] SINE| "<file name>"
[ :SOURce ]:RADio:TETRa:BURSt:SHApe[:TYPE]?

[ :SOURce ]:RADio:TETRa:BURSt[:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:TETRa:BURSt[:STATE]?

[ :SOURce ]:RADio:TETRa:DATA PN9|PN11|PN15|PN20|PN23|FIX4| "<file name>" |EXT|P4|
P8|P16|P32|P64
[ :SOURce ]:RADio:TETRa:DATA?

[ :SOURce ]:RADio:TETRa:DATA:FIX4 <val>
[ :SOURce ]:RADio:TETRa:DATA:FIX4?

[ :SOURce ]:RADio:TETRa:DEFault

[ :SOURce ]:RADio:TETRa:EDATa:DElay?

[ :SOURce ]:RADio:TETRa:EDCLock SYMBol|NORMal
[ :SOURce ]:RADio:TETRa:EDCLock?
```

```
[ :SOURce]:RADio:TETRA:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|IS95|
IS95_EQ|IS95_MOD_EQ|AC4Fm|UGGaussian| "<user FIR>"
[:SOURce]:RADio:TETRA:FILTer?

[:SOURce]:RADio:TETRA:IQ:SCALE <val>
[:SOURce]:RADio:TETRA:IQ:SCALE?

[:SOURce]:RADio:TETRA:MODulation:FSK[:DEViation] <val><unit>
[:SOURce]:RADio:TETRA:MODulation:FSK[:DEViation]?

[:SOURce]:RADio:TETRA:MODulation:MSK[:PHASe] <val><unit>
[:SOURce]:RADio:TETRA:MODulation:MSK[:PHASe]?

[:SOURce]:RADio:TETRA:MODulation:UFSK "<file name>"
[:SOURce]:RADio:TETRA:MODulation:UFSK?

[:SOURce]:RADio:TETRA:MODulation:UIQ "<file name>"
[:SOURce]:RADio:TETRA:MODulation:UIQ?

[:SOURce]:RADio:TETRA:MODulation[:TYPE] BPSK|QPSK|IS95QPSK|GRAYQPSK|OQPSK|
IS95OQPSK|P4DQPSK|PSK8|PSK16|D8PSK|MSK|FSK2|FSK4|FSK8|FSK16|C4FM|QAM4|QAM16|
QAM32|QAM64|QAM256|UIQ|UFSK
[:SOURce]:RADio:TETRA:MODulation[:TYPE]?

[:SOURce]:RADio:TETRA:POLarity[:ALL] NORMal|INVerted
[:SOURce]:RADio:TETRA:POLarity[:ALL]?

[:SOURce]:RADio:TETRA:SECondary:RECall
[:SOURce]:RADio:TETRA:SECondary:SAVE

[:SOURce]:RADio:TETRA:SECondary:TRIGger[:SOURce] KEY|EXT|BUS
[:SOURce]:RADio:TETRA:SECondary:TRIGger[:SOURce]?

[:SOURce]:RADio:TETRA:SECondary[:STATe] ON|OFF|1|0
[:SOURce]:RADio:TETRA:SECondary[:STATe]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom PN9|PN15|FIX4| "<file name>" |
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCCustom:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B1 <14 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B1?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B2 <16 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DCNormal:B2?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCNormal:TSEquence <30 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCNormal:TSEquence?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCNormal[:DATA] PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCNormal[:DATA]?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCNormal[:DATA]:FIX4 <val>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCNormal[:DATA]:FIX4?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:B <30 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:B?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:FCOR <80 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:FCOR?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:SSB <120 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:SSB?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:STS <38 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync:STS?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync[:DATA] PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync[:DATA]?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync[:DATA]:FIX4 <val>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DCSync[:DATA]:FIX4?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDCustom PN9 | PN15 | FIX4 | "<file name>" | EXT |
P4 | P8 | P16 | P32 | P64
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDCustom?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDCustom:FIX4 <val>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDCustom:FIX4?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal:B1 <14 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal:B1?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal:B2 <16 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal:B2?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal:TSEquence <30 bit value>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal:TSEquence?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal[:DATA]
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal[:DATA]?

[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal[:DATA]:FIX4 <val>
[ :SOURce]:RADio:TETRA: SLOT[1] | 2 | 3 | 4:DDNormal[:DATA]:FIX4?
```

```

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:B <30 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:B?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:FCOR <80 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:FCOR?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:SSB <120 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:SSB?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:STS <38 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync:STS?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA] PN9|PN15|FIX4|
"<file name>"|EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:DDSync[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:POWer MAIN|DELTA
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:POWer?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:STATe ON|OFF|1|0
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:STATe?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC1[:DATA] PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC1[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC1[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC1[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC2:TSEquence <30 bit value>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC2:TSEquence?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC2[:DATA] PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC2[:DATA]?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC2[:DATA]:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UC2[:DATA]:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UCUStom PN9|PN15|FIX4|"<file name>"|
EXT|P4|P8|P16|P32|P64
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UCUStom?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UCUStom:FIX4 <val>
[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UCUStom:FIX4?

[:SOURce]:RADio:TETRA:SLOT[1]|2|3|4:UNORmal:TSEquence <22 bit value>

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4:UNORmal:TSEquence?
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4:UNORmal[ :DATA] PN9 | PN15 | FIX4 |
"<file name>" | EXT | P4 | P8 | P16 | P32 | P64
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4:UNORmal[ :DATA]?
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4:UNORmal[ :DATA]:FIX4 <val>
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4:UNORmal[ :DATA]:FIX4?
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4[:TYPE] UCUsTom|UC1 | UC2 | UNORmal | DDNormal |
DDSync | DCNormal | DCSync | DCCUsTom | DDCUsTom
[ :SOURce ]:RADio:TETRa:SLOT[1] | 2 | 3 | 4[:TYPE]?
[ :SOURce ]:RADio:TETRa:SOUT FRAME | SLOT | ALL
[ :SOURce ]:RADio:TETRa:SOUT?
[ :SOURce ]:RADio:TETRa:SOUT:OFFSet <val>
[ :SOURce ]:RADio:TETRa:SOUT:OFFSet?
[ :SOURce ]:RADio:TETRa:SOUT:SLOT <val>
[ :SOURce ]:RADio:TETRa:SOUT:SLOT?
[ :SOURce ]:RADio:TETRa:SRATe <val>
[ :SOURce ]:RADio:TETRa:SRATe?
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce] KEY | EXT | BUS
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce]?
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce]:EXTErnal:DELay <val>
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce]:EXTErnal:DELay?
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce]:EXTErnal:DELay:STATe ON | OFF | 1 | 0
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce]:EXTErnal:DELay:STATe?
[ :SOURce ]:RADio:TETRa[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:TETRa[:STATe]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:TETRa:CHANnel EVM | ACP
[ :SOURce ]:RADio:TETRa:CHANnel?
[ :SOURce ]:RADio:TETRa:FCHannel:BAND B390 | B420 | B460 | B915 | M380 | M410 | M450 | M870
[ :SOURce ]:RADio:TETRa:FCHannel:BAND?
[ :SOURce ]:RADio:TETRa:FCHannel:NUMBer <number>
[ :SOURce ]:RADio:TETRa:FCHannel:NUMBer?
[ :SOURce ]:RADio:TETRa:FCHannel[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:TETRa:FCHannel[:STATe]?
```

```
[ :SOURce ]:RADio:TETRa:FILTer IS2000SR3DS
[ :SOURce ]:RADio:TETRa:REPeat SINGLE|CONTinuous
[ :SOURce ]:RADio:TETRa:REPeat?

[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTernal[ :TYPE ] SINGLE|GATE|RESet |
MANual
[ :SOURce ]:RADio:TETRa:TRIGger[ :SOURce ]:EXTernal[ :TYPE ]?
```

Wideband CDMA ARB Subsystem

Compatible Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:I <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:I?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:POSition PRE|POST
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:POSition?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:Q <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:Q?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:TYPE IJQ|IORQ
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping:TYPE?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping[ :IJQ ] <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CLIPping[ :IJQ ]?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CRATe <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:CRATe?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer RNYQuist|NYQuist|GAUSSian|RECTangle|
WCDMA|AC4Fm|IS2000SR3DS|UGGaussian|"<user FIR>"
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer:ALPHa <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer:ALPHa?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer:BBT <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer:BBT?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer:CHANnel EVM|ACP
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:FILTer:CHANnel?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:IQMap NORMal|INVerted
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:IQMap?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK DOWN|UP
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup DPCH1 | DPCH3 | PPSCH | PDPCH1 |
PPDPCH3 | TM1D16 | TM1D32 | TM1D64 | TM2 | TM3D16 | TM3D32 | TM4 | MCArrier | "<file name>"
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier CAR2 | CAR3 | CAR4 |
"<file name>"
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:STORE "<file name>"

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:TABLE INIT | APPend |
<carrier_num>, DPCH1 | DPCH3 | PPSCH | PDPCH1 | PDPCH3 | TM1D16 | TM1D32 | TM1D64 | TM2 |
TM3D16 | TM3D32 | "<file name>", <freq_offset>, <power>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:TABLE? <carrier_num>

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:MCArrier:TABLE:NCARriers?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:STORE "<file name>"

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:APPLY

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:CHANnel INIT | APPend |
<chan_num>, <chan_type>, <symbol_rate>, <spread_code>, <power>, <tDPCH_offset>,
<TFCI>, <TPC>, <scramble_code>, STANDARD | RALternate | LALternate,
<scramble_offset>, RANDOM | PN9 | PINDicator | <data_val>, <TFCI_power>, <TPC_power>,
<pilot_power>, <pilot_bits>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:CHANnel? <chan_num>

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:NCHannels?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:SETup:TABLE:PADJust EQUal | SCALE

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:TFCI ON | OFF | 1 | 0
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:DOWN:TFCI?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SCRamble <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SCRamble?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SDPDch I | Q
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SDPDch?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup DPCCH | DDPCH1 | DDPCH2 | DDPCH3 |
DDPDCH4 | DDPCH5 | "<file name>"
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:STORE "<file name>"

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:APPLY
```

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:CHANnel INIT|APPend|
<chan_num>,<chan_type>,<symbol_rate>,<spread_code>,<power>,<TFCI>,<TPC>,<
RANDOM|<data_VAL>,<fbi_bits_count>,<fbi_bits_value>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:CHANnel? <chan_num>

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:GUNit DB|LINear|INDEX
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:GUNit?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:SETup:TABLE:NCHannels?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:TFCI ON|OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:LINK:UP:TFCI?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:RETRigger 1|0
```

NOTE The above command is not recommended; the following command is the preferred syntax for the ESG E44xxB.

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:RETRigger ON|OFF
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:RETRigger?
```

NOTE The above query for the ESG Vector Signal Generator (E4438C) only returns the string ON or OFF. This is different from the ESG E44xxB query which returns a 1 or 0.

```
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:REVision?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger:TYPE CONT|SINGLE|GATE
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger:TYPE?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger:TYPE:GATE:ACTIVE LOW|HIGH
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger:TYPE:GATE:ACTIVE?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ] KEY|EXT|BUS
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]:EXternal:DElay <val>
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]:EXternal:DElay?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]:EXternal:DElay:STATE ON|OFF|
1|0
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]:EXternal:DElay:STATE?

[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]:EXternal:SLOPe POSitive|
NEGative
[ :SOURce ]:RADio:WCDMa:TGPP:ARB:TRIGger[ :SOURce ]:EXternal:SLOPe?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio:WCDMa:TGPP:ARB[ :STATE ] ON|OFF|1|0  
[ :SOURce ] :RADio:WCDMa:TGPP:ARB[ :STATE ]?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Wideband CDMA BBG Subsystem

Compatible Commands

```
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:BBClock INT[1]|EXT[1]  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:BBClock?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:BBClock:EXT:POLarity POSitive|NEGative  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:BBClock:EXT:POLarity?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:BBClock:EXT:RATE X1|X2|X3|X4  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:BBClock:EXT:RATE  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:APPLY  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:APPLY?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CPICH:CCODE?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CPICH:POWER <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CPICH:POWER?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CPICH[ :STATE ] ON|OFF|1|0  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CPICH[ :STATE ]?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CRATE <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:CRATE?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:BLKSize <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:BLKSize?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:BPFFrame?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:BRATE?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:CODE HCONV|TCONV|  
TURBo|NONE  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:CODE?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:CRC 0|8|12|16|24  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:DLINK:DCH[1]|2|3|4|5|6:CRC?
```

```
[ :SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:DATA PN9|FIX4|
"<file name>"
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:DATA?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:DATA:FIX4?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:NBLocks <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:NBLocks?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:PPERcentage?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:RMATch <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:RMATch?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:TTI 10000|20000|
40000|80000
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6:TTI?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6[:STATE] ON|OFF|1|0
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DCH[1]|2|3|4|5|6[:STATE]?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:CCODE <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:CCODE?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA PN9|PN15|FIX4|
"<file name>"|TRANspch
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA:FIX4 <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:DATA:FIX4?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:POWER <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:POWER?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SLOTformat <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SLOTformat?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SRATE?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SSCodeos <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:SSCodeos?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TFCI:PATtern <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TFCI:PATtern?
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TOFFset <val>
[:SOURce]:RADio:WCDMa:TGPP[:BBG]:DLINK:DPCH[1]|2:TOFFset?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH[1] | 2:TPC:NUMSteps <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH[1] | 2:TPC:NUMSteps?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH[1] | 2:TPC:PATtern UDOWn | DUP |
UALL | DALL
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH[1] | 2:TPC:PATtern?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH[1] | 2[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH[1] | 2[:STATe]?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer RNYQuist | NYQuist | GAUSSian |
RECTangle | IS95 | IS95_EQ | IS95_MOD | IS95_MOD_EQ | AC4Fm | UGGaussian | "<user FIR>"
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer:ALPHa <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer:ALPHa?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer:BBT <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer:BBT?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer:CHANnel <EVM | ACP>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:FILTer:CHANnel?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:CCODE <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:CCODE?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:POWer <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:POWer?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:SRATe 7.5 | 15 | 30 | 60 | 120 |
240 | 480 | 960
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:SRATe?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:DATA PN9 | PN15
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:DATA?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:SSCodeos <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4:SSCodeos?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4[:STATe] ON | OFF | 1 | 0
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:OCNS[1] | 2 | 3 | 4[:STATe]?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:PCCPch:BCHData PN9 | PN15 | FIX4 |
"<file name>" | TRANspch
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:PCCPch:BCHData?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:PCCPch:BCHData:FIX4 <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:PCCPch:BCHData:FIX4?
```

```

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PCCPch:CCODE <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PCCPch:CCODE?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PCCPch:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PCCPch:POWER?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PCCPch[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PCCPch[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:CCODE <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:CCODE?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:DATA PN9|PN15|FIX4|
"<file name>"
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:DATA?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:DATA:FIX4 <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:DATA:FIX4?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:PIBits?
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:PINDicator?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH:POWER?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PICH[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH:POWER?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:PSCH[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SCRamblecode <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SCRamblecode?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH:POWER?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH:SSGRoup?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:DLINK:SSCH[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:LINK DOWN|UP
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:LINK?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:POLarity[:ALL] NORMAL|INverted
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:POLarity[:ALL]?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:APPLy
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:APPLy?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:CRATe <val>
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:CRATe?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:BLKSize <val>
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:BLKSize?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:CODE HCONv | TCONv |
TURBo | NONE
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:CODE?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:CRC <val>
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:CRC?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA PN9 | FIX4 |
"<file name>"
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BER:ACTual?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BER:ERRor:BIT?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BER:TOTal:BIT?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:
BER[ :VALue] <val>
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BER[ :VALue]?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BLER:ACTual?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BLER:ERRor:
BLOCK?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BLER:TOTal:
BLOCK?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:
BLER[ :VALue] <val>
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:BLER[ :VALue]?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:EINSErt BLER |
BER | NONE
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:EINSErt?

[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:FIX4 <val>
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG]:ULINK:DCH[1] | 2 | 3 | 4 | 5 | 6:DATA:FIX4?
```

```

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:NBLock <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:NBLock?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:RMATch <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:RMATch?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:TTI <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6:TTI?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6[:STATE] ON|OFF|1|0
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DCH[1]|2|3|4|5|6[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:BETA <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:BETA?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:CCODE <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:CCODE?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:FBI:PATtern PN9|PN15|FIX|
"<file name>"
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:FBI:PATtern?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:FBI:PATtern:FIX <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:FBI:PATtern:FIX?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:FBI[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:POWER <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:POWER?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:RATE?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:SLOTformat <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:SLOTformat?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TFCI:PATtern PN9|PN15|FIX|
"<file name>"
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TFCI:PATtern?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TFCI:PATtern:FIX <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TFCI:PATtern:FIX?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TFCI[:STATE]?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TPC:NSTeps <val>
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TPC:NSTeps?

[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TPC:PATtern PN9|PN15|FIX4|
"<file name>"|UDOW|DUP|UALL|DALL
[:SOURCE]:RADIO:WCDMA:TGPP[:BBG]:ULINK:DPCCh:TPC:PATtern?

```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh:TPC:PATtern:FIX4 <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh:TPC:PATtern:FIX4?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh:TPC:PATtern:TRIGger:
POLarity POSitive|NEGative
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh:TPC:PATtern:TRIGger:POLarity?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh:TPC:PATtern:TRIGger[ :STATE] ON|
OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh:TPC:PATtern:TRIGger[ :STATE]?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh[ :STATE] ON|OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPCCh[ :STATE]?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:BETA <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:BETA?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:CCODE <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:CCODE?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:DATA PN9|PN15|FIX4|
"<file name>"|TRANspch
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:DATA?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:DATA:FIX4 <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:DATA:FIX4?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:POWER <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:POWER?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:RATE <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:RATE?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:SLOTformat <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh:SLOTformat?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh[ :STATE] ON|OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:DPDCh[ :STATE]?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FCLock:INTerval FCL10|FCL20|
FCL40|FCL80
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FCLock:INTerval?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FCLock:POLarity POSitive|NEGative
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FCLock:POLarity?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FILTer RNYQuist|NYQuist|GAUSSian|
RECTangle|IS95|IS95_EQ|IS95_MOD|IS95_MOD_EQ|AC4Fm|UGGaussian|"<user FIR>"
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FILTer?
```

```
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FILTer:BBT <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FILTer:BBT?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FILTer:CHANnel EVM|ACP
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:FILTer:CHANnel?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:PADJust EQUal|SCALE
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SCRamblecode <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SCRamblecode?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SDElay <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SDElay?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SFNrst:POLarity POSitive|NEGative
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SFNrst:POLarity?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SYNC:MODE SINGLE|CONTinuous
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SYNC:MODE?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SYNC[:SOURce] SFN_RST|FClock
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:SYNC[:SOURce]?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:TOFFset <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:ULINK:TOFFset?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG][:STATE] ON|OFF|1|0
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG][:STATE]?
```

Non-Compatible Commands

```
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:CCODE <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:CCODE?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:DATA PN9|PN15|FIX4|
"<file name>"|TRANspch
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:DATA?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:DATA:FIX4 <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:DATA:FIX4?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:POWER <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:POWER?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:SLOTformat <val>
[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:SLOTformat?

[ :SOURce ]:RADio:WCDMa:TGPP[ :BBG]:DLINK:DPCH3|4:SRATE?
```

ESG E44xxB Commands

Digital Function Commands

```
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:SSCodeos <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:SSCodeos?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TFCI:PATtern <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TFCI:PATtern?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TOFFset <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TOFFset?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TPC:NUMSteps <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TPC:NUMSteps?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TPC:PATtern UDown | DUP |  
UALL | DALL  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4:TPC:PATtern?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4[ :STATE ] ON | OFF | 1 | 0  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:DPCH3 | 4[ :STATE ] ?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:RCSetup REF122 | REF64 | REF144 | REF384 |  
AMR122 | UDI64 | ISDN  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :DLINK:RCSetup?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:PPower? <val>  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:PPaired <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:PPaired?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:SCALE <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:SCALE?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:TVoltage?  
  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:TVpaired <val>  
[ :SOURce ] :RADio:WCDMa:TGPP[ :BBG ] :IQ:TVpaired?
```

4 8648A/B/C/D Commands

Selecting the Programming Language

NOTE Compatibility is provided for GPIB only; RS-232 and LAN are *not* supported.

When using the programming codes in this section, you must set the remote programming language to the correct language format.

- On the front-panel, press the following keys:
Utility > GPIB/RS-232 LAN > Preset Language > 8648A/B/C/D
or
- Execute the SCPI command `:SYSTEM:LANGUage` found on [page 5](#).

To keep the remote language choice so that it does not reset with either preset, instrument power cycle, or *RST, perform the following.

- On the front-panel, press the following keys:
Utility > Power On/Preset > Preset Language > 8648A/B/C/D
or
- Execute the SCPI command `:PRESet:LANGUage` found on [page 4](#).

To set the *IDN? response to match the remote language setting, use the command `:SYSTEM:IDN` located in “[Changing the Signal Generator Identification String](#)” on [page 3](#).

System Function Commands

IEEE Common Commands

Compatible Commands

*RST?

*IDN?

*TST?

*WAI?

*CLS?

*ESE <dec. num. data>

*ESE?

*OPC

*OPC?

*RCL <reg_num> [, <seq_num>]

*SAV <reg_num> [, <seq_num>]

*SRE <dec. num. data>

*SRE?

*STB?

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Status Subsystem

Compatible Commands

[:SOURce] :STATus:QUEStionable:POWer:CONDition?

[:SOURce] :STATus:QUEStionable:POWer:ENABle <NR1>

[:SOURce] :STATus:QUEStionable:POWer:ENABle?

[:SOURce] :STATus:QUEStionable:POWer:EVENT?

8648A/B/C/D Commands

System Function Commands

```
[ :SOURce ] : STATus : QUEStionable : MODulation : CONDition?  
[ :SOURce ] : STATus : QUEStionable : MODulation : ENABle <NR1>  
[ :SOURce ] : STATus : QUEStionable : MODulation : ENABle?  
[ :SOURce ] : STATus : QUEStionable : MODulation : EVEnt?  
[ :SOURce ] : STATus : QUEStionable : CALibration : FEXTension [ :EVEnt ] ?  
[ :SOURce ] : STATus : QUEStionable : CALibration : FEXTension : CONDition?  
[ :SOURce ] : STATus : QUEStionable : CALibration : FEXTension : ENABle <NR1>  
[ :SOURce ] : STATus : QUEStionable : CALibration : FEXTension : ENABle?
```

Non-Compatible Commands

```
[ :SOURce ] : STATus : QUEStionable : PAGing : CONDition?  
[ :SOURce ] : STATus : QUEStionable : PAGing : ENABle <NR1>  
[ :SOURce ] : STATus : QUEStionable : PAGing : ENABle?  
[ :SOURce ] : STATus : QUEStionable : PAGing : EVEnt?
```

System Subsystem

Compatible Commands

```
[ :SOURce ] : SYSTem : LANGuage "COMP" | "SCPI"  
[ :SOURce ] : SYSTem : LANGuage?  
[ :SOURce ] : SYSTem : ERRor?  
[ :SOURce ] : SYSTem : VERSion?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Analog Function Commands

Amplitude Subsystem

Compatible Commands

```
[ :SOURce]:OUTPut:STATe ON|OFF  
[ :SOURce]:OUTPut:STATe?  
  
[ :SOURce]:POWer:AMPLitude <val><units>  
[ :SOURce]:POWer:AMPLitude?  
  
[ :SOURce]:POWer:ATTenuation:AUTO ON|OFF  
[ :SOURce]:POWer:ATTenuation:AUTO?  
  
[ :SOURce]:POWer:REFerence <val><units>  
[ :SOURce]:POWer:REFerence?  
  
[ :SOURce]:POWer:REFerence:STATe ON|OFF  
[ :SOURce]:POWer:REFerence:STATe?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Frequency Subsystem

Compatible Commands

```
[ :SOURce]:FREQuency:CW <val><units>  
[ :SOURce]:FREQuency:CW?  
  
[ :SOURce]:FREQuency:REFerence <val><units>  
[ :SOURce]:FREQuency:REFerence?  
  
[ :SOURce]:FREQuency:REFerence:STATe ON|OFF  
[ :SOURce]:FREQuency:REFerence:STATe?
```

Non-Compatible Commands

There are no non-compatible SCPI commands for this subsystem.

Amplitude Modulation Subsystem

Compatible Commands

```
[ :SOURce ]:AM:DEPT h <val>PCT
[ :SOURce ]:AM:DEPT h?

[ :SOURce ]:AM:STAT e ON|OFF
[ :SOURce ]:AM:STAT e?

[ :SOURce ]:AM:SOUR ce INT ernal[1]|2
[ :SOURce ]:AM:SOUR ce INT ernal|EXT ernal
[ :SOURce ]:AM:SOUR ce?

[ :SOURce ]:AM:INT ernal:FREQuency 1kHz
[ :SOURce ]:AM:INT ernal:FREQuency 400HZ
[ :SOURce ]:AM:INT ernal:FREQuency?

[ :SOURce ]:AM:INT ernal2:FREQuency <val><units>
[ :SOURce ]:AM:INT ernal2:FREQuency?

[ :SOURce ]:AM:INT ernal2:FUNCT ion:SHAPE TRIangle|SQUare|SINE
[ :SOURce ]:AM:INT ernal2:FUNCT ion:SHAPE?

[ :SOURce ]:AM:EXT ernal:COUPLing AC|DC
[ :SOURce ]:AM:EXT ernal:COUPLing?
```

Non-Compatible Commands

```
[ :SOURce ]:AM:INT ernal2:FUNCT ion:SHAPE SAW
```

Frequency Modulation Subsystem

Compatible Commands

```
[ :SOURce ]:CALibration:DCFM

[ :SOURce ]:FM:DEVIation <val>kHZ
[ :SOURce ]:FM:DEVIation?

[ :SOURce ]:FM:STAT e ON|OFF
[ :SOURce ]:FM:STAT e?

[ :SOURce ]:FM:SOUR ce INT ernal[1]|2
[ :SOURce ]:FM:SOUR ce INT ernal|EXT ernal
```

```
[ :SOURce]:FM:SOURce?
[ :SOURce]:FM:INTernal:FREQuency 1kHz
[ :SOURce]:FM:INTernal:FREQuency 400HZ
[ :SOURce]:FM:INTernal:FREQuency?
[ :SOURce]:FM:INTernal2:FREQuency <val><units>
[ :SOURce]:FM:INTernal2:FREQuency?
[ :SOURce]:FM:INTernal2:FUNCTion:SHAPE TRIangle|SQUare|SINE
[ :SOURce]:FM:INTernal2:FUNCTion:SHAPE?
[ :SOURce]:FM:EXTernal:COUPling AC|DC
[ :SOURce]:FM:EXTernal:COUPling?
```

Non-Compatible Commands

```
[ :SOURce]:FM:INTernal2:FUNCTion:SHAPE SAW
```

Phase Modulation Subsystem

Compatible Commands

```
[ :SOURce]:PM:DEVIation <val>RAD
[ :SOURce]:PM:DEVIation?
[ :SOURce]:PM:STATe ON|OFF
[ :SOURce]:PM:STATe?
[ :SOURce]:PM:SOURce INTernal[1]|2
[ :SOURce]:PM:SOURce INTernal|EXTernal
[ :SOURce]:PM:SOURce?
[ :SOURce]:PM:INTernal:FREQuency 1kHz
[ :SOURce]:PM:INTernal:FREQuency 400HZ
[ :SOURce]:PM:INTernal:FREQuency?
[ :SOURce]:PM:INTernal2:FREQuency <val><units>
[ :SOURce]:PM:INTernal2:FREQuency?
[ :SOURce]:PM:INTernal2:FUNCTion:SHAPE TRIangle|SQUare|SINE
[ :SOURce]:PM:INTernal2:FUNCTion:SHAPE?
[ :SOURce]:PM:EXTernal:COUPling AC|DC
[ :SOURce]:PM:EXTernal:COUPling?
```

Non-Compatible Commands

```
[ :SOURce ] : PM : INTernal2 : FUNCTion : SHAPE SAW
```

Pulse Modulation Subsystem

Compatible Commands

```
[ :SOURce ] : PULM : STATE ON | OFF
```

```
[ :SOURce ] : PULM : STATE?
```

Non-Compatible Commands

```
[ :SOURce ] : INITiate : IMMEDIATE
```

```
[ :SOURce ] : ABORT
```

```
[ :SOURce ] : TRIGger : COUNT <val>
```

```
[ :SOURce ] : TRIGger : COUNT?
```

```
[ :SOURce ] : DM : FORMat FSK2 | FSK4
```

```
[ :SOURce ] : DM : FORMat?
```

```
[ :SOURce ] : DM : STATE ON | OFF
```

```
[ :SOURce ] : DM : STATE?
```

```
[ :SOURce ] : DM : DEVIation <val>
```

```
[ :SOURce ] : DM : DEVIation?
```

```
[ :SOURce ] : DM : POLarity NORMal | INVert
```

```
[ :SOURce ] : DM : POLarity?
```

```
[ :SOURce ] : DM : FILTer : STATE ON | OFF
```

```
[ :SOURce ] : DM : FILTer : STATE?
```

```
[ :SOURce ] : PAGing : SElect POCS | FLEX | FTD | RESY | PN15
```

```
[ :SOURce ] : PAGing : SElect?
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD | PN15 } : RATE <val>
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD | PN15 } : RATE?
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : SElect <val>
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : SElect?
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : DEFine "string"
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : DEFine?
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : LENGth <val>
```

```
[ :SOURce ] : PAGing : { POCS | FLEX | FTD } : MESSage : LENGth?
```

```
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:DEFine <val>,...<val(n)>
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:START <val>
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:START?
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:STOP <val>
[ :SOURce]:PAGing:{POCS|FLEX|FTD}:ARBitrary:STOP?
[ :SOURce]:PAGing:{FLEX|FTD}:TYPE TONE|NUMeric|ALPHanumeric|HBINary
[ :SOURce]:PAGing:{FLEX|FTD}:TYPE?
[ :SOURce]:PAGing:{FLEX|FTD}:VECTor STANDard|SPECIAL|NUMBERed
[ :SOURce]:PAGing:{FLEX|FTD}:VECTor?
[ :SOURce]:PAGing:{FLEX|FTD}:NUMBERed <val>
[ :SOURce]:PAGing:{FLEX|FTD}:NUMBERed?
[ :SOURce]:PAGing:{FLEX|FTD}:CYCLE <val>
[ :SOURce]:PAGing:{FLEX|FTD}:CYCLE?
[ :SOURce]:PAGing:{FLEX|FTD}:FRAME <val>
[ :SOURce]:PAGing:{FLEX|FTD}:FRAME?
[ :SOURce]:PAGing:{FLEX|FTD}:CCOunt?
[ :SOURce]:PAGing:{FLEX|FTD}:FCOunt?
[ :SOURce]:PAGing:{FLEX|FTD}:PHASe A|B|C|D
[ :SOURce]:PAGing:{FLEX|FTD}:PHASe?
[ :SOURce]:PAGing:{FLEX|FTD}:COLLapse <val>
[ :SOURce]:PAGing:{FLEX|FTD}:COLLapse?
[ :SOURce]:PAGing:{FLEX|FTD}:CODE <val>
[ :SOURce]:PAGing:{FLEX|FTD}:CODE?
[ :SOURce]:PAGing:{FLEX|FTD}:ATYPE SHORT|LONG
[ :SOURce]:PAGing:{FLEX|FTD}:ATYPE?
[ :SOURce]:PAGing:{FLEX|FTD}:ADDRESS{1|2} <val>
[ :SOURce]:PAGing:{FLEX|FTD}:ADDRESS{1|2}?
[ :SOURce]:PAGing:{FLEX|FTD}:ISTop:STATE ON|OFF
[ :SOURce]:PAGing:{FLEX|FTD}:ISTop:STATE?
[ :SOURce]:PAGing:{FLEX|FTD}:HEADer:STATE ON|OFF
[ :SOURce]:PAGing:{FLEX|FTD}:HEADer:STATE?
[ :SOURce]:PAGing:{FLEX|FTD}:TERMinator:STATE ON|OFF
[ :SOURce]:PAGing:{FLEX|FTD}:TERMinator:STATE?
```

8648A/B/C/D Commands

Analog Function Commands

```
[ :SOURce ] :PAGing : { FLEX | FTD } :VECTor STANdard | SPECial | NUMBered
[ :SOURce ] :PAGing : { FLEX | FTD } :VECTor?

[ :SOURce ] :PAGing : { FLEX | FTD } :HBINary BIT1 | BIT7 | BIT8 | BIT14 | BIT16
[ :SOURce ] :PAGing : { FLEX | FTD } :HBINary?

[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :STATe ON | OFF
[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :STATe?

[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :ADDress { 1 | 2 } <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :DCAL :ADDress { 1 | 2 } ?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SElect NONE | SSID | NID
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SElect?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :LID <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :LID?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CZONe <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CZONe?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CCODE <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :CCODE?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :TMF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :TMF?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :FOFF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :SSID :FOFF?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :ADDRESS <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :ADDRESS?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :AREA <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :AREA?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :MULTIplier <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :MULTIplier?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :TMF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :TMF?

[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :FOFF <val>
[ :SOURce ] :PAGing : { FLEX | FTD } :ROAMing :NID :FOFF?

[ :SOURce ] :PAGing : FTD :REFerence <val>
[ :SOURce ] :PAGing : FTD :REFerence?

[ :SOURce ] :PAGing : FTD :RCO?
```

[:SOURce] :PAGing:POCS:TYPE TONE | NUMeric | ALPHanumeric | ALPH7 | ALPH8

[:SOURce] :PAGing:POCS:TYPE?

[:SOURce] :PAGing:POCS:CODE <val>

[:SOURce] :PAGing:POCS:CODE?

[:SOURce] :PAGing:POCS:FUNction 0 | 1 | 2 | 3

[:SOURce] :PAGing:POCS:FUNction?

5 8656B, 8657A/B/D/J Programming Codes

Programming Codes

NOTE Compatibility is provided for GPIB only; RS-232 and LAN are *not* supported.

When using the programming codes in this section, you must set the remote programming language to the correct language format.

- On the front-panel, press the following keys:
Utility > GPIB/RS-232 LAN > Preset Language > (*language format*)

or

- Execute the SCPI command **:SYSTEM:LANGUage** found on [page 5](#).

To keep the remote language choice so that it does not reset with either preset, instrument power cycle, or *RST, perform the following.

- On the front-panel, press the following keys:
Utility > Power On/Preset > Preset Language > (*language format*)

or

- Execute the SCPI command **:PRESet:LANGUage** found on [page 4](#).

To set the *IDN? response to match the remote language setting, use the command **:SYSTEM:IDN** located in “[Changing the Signal Generator Identification String](#)” on [page 3](#).

Compatible Codes

8656B, 8657A/B/D/J Codes ^a	Description	Equivalent SCPI Command Syntax
AM	Amplitude Modulation	[:SOURce] : AM [1] 2 [:DEPT h] [:LINear] <val><unit> UP DOWN For additional commands, refer to, “S1, S2, or S3 used with AM” on page 134
AO	Amplitude Offset	[:SOURce] : POWer [:LEVel] [IMMEDIATE] : OFFSet <val><unit>
AP	Amplitude (carrier)	[:SOURce] : POWer [:LEVel] [:IMMEDIATE] [:AMPLitude] <val><unit>
DB	Unit used with the power command	DB
DF	Unit used with the power command	DB
DM	Unit used with the power command	DBM
DN	Step Down	No equivalent SCPI command
EM	Unit used with the power command	EMF
FM	Frequency Modulation	[:SOURce] : FM [1] 2 [:DEViation] <val><unit> For additional commands, refer to, “S1, S2, or S3 used with FM” on page 135.
FR	Frequency (carrier)	[:SOURce] : FREQuency [:CW] <val><unit>
GT	Flexible Sequence	No equivalent SCPI command
HZ	Unit used with the frequency command	HZ
IS ^b	Increment Set	No equivalent SCPI command

8656B, 8657A/B/D/J Codes ^a	Description	Equivalent SCPI Command Syntax
KZ	Unit used with the frequency command	kHZ
MV	Unit used with the power command	mV
MZ	Unit used with the frequency command	MHZ
P0 ^c	Digital Modulation Off	Refer to, “ P0 (Digital Modulation Off) ” on page 133.
P4 ^c	Digital Modulation On	Refer to, “ P4 (Digital Modulation On)—E4438C ” on page 134.
PC ^d	Unit used with the modulation command	PCT
PD	Phase Decrement	[:SOURce] : PHASE [: ADJust] <val><RAD>
PF	Pulse Modulation (Fast Mode)	Refer to, “ PF (Pulse Modulation-Fast Mode) or PM (Pulse Modulation) ” on page 134.
PI	Phase Increment	[:SOURce] : PHASE [: ADJust] <val><RAD>
PM	Pulse Modulation	[:SOURce] : PULM : SOURce EXT2 [:SOURce] : PULM : STATE ON
QS	Reverse Sequence	*RCL <reg>
RC	Recall (0–9)	*RCL <reg>
RL	Recall (0–99)	*RCL <reg>
RP ^e	Reverse Power Protection Reset	No equivalent SCPI command
R2	RF Off	OUTPut [: STATE] OFF
R3	RF On	OUTPut [: STATE] ON
R5	RF Dead (Full Attenuator)	OUTPut [: STATE] OFF

8656B, 8657A/B/D/J Codes ^a	Description	Equivalent SCPI Command Syntax
SQ	Sequence	*RCL <reg>
ST	Save (0–9)	*SAV <reg>
SV	Save (0–99)	*RCL <reg>
S1	External Modulation Source	Refer to, “S1, S2, or S3 used with AM” on page 134 or “S1, S2, or S3 used with FM” on page 135.
S2	Internal 400 Hz Modulation Source	Refer to, “S1, S2, or S3 used with AM” on page 134 or “S1, S2, or S3 used with FM” on page 135.
S3	Internal 1 kHz Modulation Source	Refer to, “S1, S2, or S3 used with AM” on page 134 or “S1, S2, or S3 used with FM” on page 135.
S4	Modulation Source Off	Refer to, “S4 (Modulation Source Off)” on page 136.
S5	DC FM	Refer to, “S5 (DC FM)” on page 137.
UP	Step Up	No equivalent SCPI command
UV	Unit used with the power command	UV
VL	Unit used with the power command	V
0-9	Numerals 0–9	0–9
–	Minus Sign	–
.	Decimal Point	.
% ^d	Unit used with the modulation command	PCT

- a. Program codes are either upper or lower case.
- b. Increment Set is implemented for frequency (FR) and amplitude (AP) only.
- c. This code is used with the NADC, PDC, and PHS digital modulation.
- d. Either PC or % can be used.
- e. The source of reverse power must be removed.

Non-Compatible Codes

8656B, 8657A/B/D/J Codes	Description
HI	HI ALC
LO	LO ALC
R0	Standby
R1	On

Command Mapping

When using the 8656B, 8657A/B/D/J-compatible programming codes, the E4428C/38C internally maps these codes to an equivalent SCPI response. In addition, the modulation source selections for the 8656B, 8657A/B/D/J differ from those available in the E4428C/38C and therefore, are mapped to a valid selection. (Refer to [Table 5-1](#).)

Table 5-1

Modulation Sources	
8656B, 8657A/B/D/J	ESG Signal Generators
AM, Internal	AM1, Internal 1
AM, External	AM2, External 1
FM, Internal	FM1, Internal 1
FM, External	FM2, External 1
AM, Internal and External	AM1, Internal 1 and AM2, External 1
FM, Internal and External	FM1, Internal 1 and FM2, External 1

NOTE The 8656, 8657A/B/D/J signal generators allow multiple modulations to use the same input; the E4428C/38C does not. If you configure multiple modulations on the same input, the E4428C/38C automatically disables the modulations.

The mapping between the 8656B, 8657A/B/D/J-compatible programming codes and the SCPI commands changes depending on the programming codes being executed. Refer to the following sections for explanations of the codes that are affected.

P0 (Digital Modulation Off)

NOTE This section contains a command that is only applicable to the E4438C vector signal generator.

Command Mapping

This code turns off the digital modulation for NADC (8657D), PDC (8657D), and PHS (8657J). Replace `<format>` with either NADC, PDC, or PHS as needed. The P0 code is mapped to the following SCPI command:

```
[ :SOURCE ] :RADIO : <format> : STATE OFF
```

P4 (Digital Modulation On)—E4438C

This code turns off the AM and FM modulation and turns on the digital modulation for NADC (8657D), PDC (8657D), and PHS (8657J).

The P4 code is mapped to the following SCPI commands:

- [:SOURCE] :AM[1] : STATE OFF
- [:SOURCE] :AM2 : STATE OFF
- [:SOURCE] :FM[1] : STATE OFF
- [:SOURCE] :FM2 : STATE OFF
- [:SOURCE] :DM : SOURCE INTERNAL1
- [:SOURCE] :RADIO : <format> : STATE ON
- [:SOURCE] :RADIO : <format> : REPEAT CONT
- [:SOURCE] :RADIO : <format> : DATA EXTERNAL
- [:SOURCE] :DM : STATE ON

where `<format>` is either NADC, PDC, or PHS depending on the specific compatibility language selected.

PF (Pulse Modulation-Fast Mode) or PM (Pulse Modulation)

The E4428C/38C supports only one input selection for pulse which is EXTERNAL 2 (EXT 2 INPUT connector). This is a DC-coupled input. Internal pulse modulation, therefore, is not supported in the 8656B, 8657A/B/D/J-compatible language modes. The PF or PM code is mapped to the following SCPI commands:

- [:SOURCE] :PULM : SOURCE EXTERNAL2
- [:SOURCE] :PULM : STATE ON

S1, S2, or S3 used with AM

When the AM code is executed, the following occurs:

- AM becomes the active function.
- AM1 and AM2 depth values are coupled by mapping to the following command:

[:SOURce] :AM[1] | 2 [:DEPT h] :TRACk ON.

If AM is on, or there is no active modulation, a sequence of SCPI commands are implemented when an AM code is executed with a modulation source code. [Table 5-2](#) shows the sequence of SCPI commands that are implemented.

Table 5-2

	AM On	No Active Modulation
S1	[:SOURce] :AM2 :EXTernal[1] : COUPling AC [:SOURce] :AM2 :SOURce EXTernal1	[:SOURce] :AM2 :EXTernal[1] : COUPling AC [:SOURce] :AM2 :SOURce EXTernal1 [:SOURce] :AM2 :STATe ON
S2	[:SOURce] :AM[1] :SOURce INT[1] [:SOURce] :AM[1] :INTernal[1] : FREQuency 400 HZ	[:SOURce] :AM[1] :SOURce INT[1] [:SOURce] :AM[1] :INTernal[1] : FREQuency 400 HZ [:SOURce] :AM[1] :STATe ON
S3	[:SOURce] :AM[1] :SOURce INT[1] [:SOURce] :AM[1] :INTernal[1] : FREQuency 1 kHz	[:SOURce] :AM[1] :SOURce INT[1] [:SOURce] :AM[1] :INTernal[1] : FREQuency 1 kHz [:SOURce] :AM[1] :STATe ON

- If FM or pulse modulation is on, the signal generator attempts to set up AM with the same settings. [Table 5-3](#) shows the SCPI commands that are mapped.

Table 5-3

	FM1 On	FM2 or Pulse On
S1, S2, or S3	[:SOURce] :AM[1] :SOURce INT[1] [:SOURce] :AM[1] :STATe ON [:SOURce] :FM[1] :STATe OFF	[:SOURce] :AM2 :SOURce EXTernal1 [:SOURce] :AM2 :STATe ON [:SOURce] :FM2 :STATe OFF [:SOURce] :PULM :STATe OFF

S1, S2, or S3 used with FM

When the FM code is executed, the following occurs:

- FM becomes the active function.
- FM1 and FM2 deviation values are coupled by mapping to the following command:
[:SOURce] :FM[1] | 2 [:DEVIation] :TRACk ON.

Command Mapping

If FM is on, or there is no active modulation, a sequence of SCPI commands are implemented when an FM code is executed with a modulation source code. [Table 5-4](#) shows the sequence of SCPI commands that are implemented.

Table 5-4

	FM On	No Active Modulation
S1	[:SOURce]:FM2:EXTErnal[1]: COUPling AC [:SOURce]:FM2:SOURce EXTErnal1	[:SOURce]:FM2:EXTErnal[1]: COUPling AC [:SOURce]:FM2:SOURce EXTErnal1 [:SOURce]:FM2:STATe ON
S2	[:SOURce]:FM[1]:SOURce INT[1] [:SOURce]:FM[1]:INTernAl[1]: FREQuency 400 HZ	[:SOURce]:FM[1]:SOURce INT[1] [:SOURce]:FM[1]:INTernAl[1]: FREQuency 400 HZ [:SOURce]:FM[1]:STATe ON
S3	[:SOURce]:FM[1]:SOURce INT[1] [:SOURce]:FM[1]:INTernAl[1]: FREQuency 1 kHz	[:SOURce]:FM[1]:SOURce INT[1] [:SOURce]:FM[1]:INTernAl[1]: FREQuency 1 kHz [:SOURce]:FM[1]:STATe ON

- If AM or pulse modulation is on, the signal generator attempts to set up FM with the same settings. [Table 5-5](#) shows the SCPI commands that are mapped.

Table 5-5

	AM1 On	AM2 or Pulse On
S1, S2, or S3	[:SOURce]:FM[1]:SOURce INT[1] [:SOURce]:FM[1]:STATe ON [:SOURce]:AM[1]:STATe OFF	[:SOURce]:FM2: SOURce EXTErnal1 [:SOURce]:FM2:STATe ON [:SOURce]:AM2:STATe OFF [:SOURce]:PULM:STATe OFF

S4 (Modulation Source Off)

- If PM is the current active function, pulse modulation is disabled by mapping to the following command:

```
[ :SOURce ]:PULM:STATe OFF
```

- If the last code executed is S2 or S3, internal modulation is turned off for the AM and FM on path one by mapping to the following commands:

```
[ :SOURce ]:AM[1]:STATe OFF
```

```
[ :SOURce ] : FM [ 1 ] : STATE OFF
```

- If the last code executed is S1, external modulation is turned off for the AM and FM on path two by mapping to the following commands:

```
[ :SOURce ] : AM2 : STATE OFF
```

```
[ :SOURce ] : FM2 : STATE OFF
```

- If the current active function is AM or FM, both paths are turned off by mapping to the following commands:

```
[ :SOURce ] : AM [ 1 ] : STATE OFF
```

```
[ :SOURce ] : AM2 : STATE OFF
```

```
[ :SOURce ] : FM [ 1 ] : STATE OFF
```

```
[ :SOURce ] : FM2 : STATE OFF
```

- If S4 is executed with S1, S2, or S3, it will turn off the current active modulation type.

S5 (DC FM)

- FM becomes the active function.
- In addition, the following commands are mapped:

```
[ :SOURce ] : FM2 : SOURce EXTErnal1
```

```
[ :SOURce ] : PULM : STATE OFF
```

```
[ :SOURce ] : AM [ 1 ] : STATE OFF
```

```
[ :SOURce ] : AM2 : STATE OFF
```

```
[ :SOURce ] : FM2 : EXTErnal [ 1 ] : COUPLing DC
```

```
[ :SOURce ] : FM2 : STATE ON
```

Command Mapping

6 8662A/63A Commands

8662A/63A Compatible Commands

The tables in this section provide the following:

[Table 6-1 on page 141](#): a comprehensive list of 8662A/63A programming commands, listed in alphabetical order. The equivalent SCPI command sequence for each supported code is provided. Codes that have no equivalent SCPI command sequence are indicated in the command column, as are codes that are *not* supported by the E4438C.

[Table 6-2 on page 148](#): a list of the implemented 8662B/63B programming commands that set the active function. This table also indicates which codes are compatible with the increment (up), and the decrement (down) SCPI commands.

To use the commands, select 866xA as the remote language. See [“Functional E4428C/38C SCPI Commands While in a Compatible Language Mode” on page 4](#) for selecting the language type.

When using the programming codes in this section, you can:

- set the ESG system language to 866xA for the current session:
Utility > GPIB/RS-232 LAN > Remote Language > 866xA
 or send the command:
`:SYST:LANG "8662" or "8663"`
- set the ESG system language to 866xA so that it does not reset on a preset, an instrument power cycle or a *RST command:
Utility > Power On/Preset > Preset Language > 866xA
 or send the command:
`:SYST:PRESET:LANG "8662" or "8663"`
- set the *IDN? response to any 866xA-like response you prefer. Refer to the [:SYSTEM:IDN](#) command on [page 3](#).

NOTE Compatibility is provided for GPIB only; RS-232 and LAN are *not* supported.
 Device Clear does not preset the instrument.
 To reproduce the sweep functionality, use the ESG List Sweep features.

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences

Command	Description	8662	8663	Equivalent SCPI Command Sequence
@1	Write require service mask	N	N	<i>not supported</i>
@2	Deferred execution mode	N	N	<i>not supported</i>
@3	Immediate execution mode	N	N	<i>not supported</i>
+D	+dBm	Y	Y	DBM
AM	AM modulation <i>See also: Table 6-2 on page 148</i>	Y		AM:DEPth <val> <units> AM:TRAC ON FM:STAT OFF AM:STAT ON
			Y	AM:DEPth <val> <units> AM:TRAC ON AM:STAT ON
AO	Amplitude off	Y	Y	OUTPut:STATe OFF
AP	Amplitude	Y	Y	POW:REF:STATe OFF POWER:AMPL <val> <units> OUTPut:STATe ON <i>See also: Table 6-2 on page 148</i>
AS BLSQ	Auto sequence	N	N	<i>not supported</i>
BP	BPSK modulation		N	<i>not supported</i>
CT	Configure trigger	Y	Y	<i>no equivalent SCPI command sequence</i>
-D	-dBm Negates the power value.	Y	Y	DBM
DB	dB	Y	Y	DB
DG	Degree	Y		DEG
DM	dBm	Y	Y	DBM
DN	Decrement Passes DOWN as parameter of active function command.	Y	Y	<i>See Table 6-2 on page 148</i>
FA	Start frequency	Y	Y	<i>See W2, W3, W4, and Table 6-2 on page 148</i>
FB	Stop frequency	Y	Y	<i>See W2, W3, W4, and Table 6-2 on page 148</i>

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
FM	FM modulation <i>See also: Table 6-2 on page 148</i>	Y		FM:DEV <val> <units> AM:STAT OFF FM:STAT ON
			Y	FM:DEV <val> <units> FM:STAT ON
FR	Center frequency	Y	Y	FREquency:CW <val> <units> <i>See also: W2, W3, and W4, and Table 6-2 on page 148</i>
FS	Span frequency	Y	Y	<i>See W2, W3, W4, and Table 6-2 on page 148</i>
GZ	GHz	Y	Y	GHZ
HZ	Hz	Y	Y	HZ
IS	Set increment Adds STEP: INCR to active function command.	Y	Y	<i>no equivalent SCPI command sequence</i>
KZ	kHz	Y	Y	KHZ
L1	Learn front panel	N	N	<i>not supported</i>
L2	Fast learn	N	N	<i>not supported</i>
MO M0	Modulation off	Y	Y	AM:STATe OFF FM:STATe OFF PULM:STATe OFF PM:STATe OFF
M1	For 8662A: <mod> = FM or AM, depending on which is on. Modulation source internal 400 Hz For 8663A: Executes MF with <freq> = 400 Hz	Y		<mod>:SOURce INT1 <mod>:INT1:FREQ 400Hz
			Y	AM:INT1:FREQ 400 MHz FM:INT2:FREQ 400 MHz PM:INT2:FREQ 400 MHz PULM:INT:FREQ 400 MHz
M2	For 8662A: <mod> = FM or AM, depending on which is on. Modulation source internal 1 kHz For 8663A: Executes MF with <freq> = 1 kHz	Y		<mod>:SOURce INT1 <mod>:INT1:FREQ 1kHz
			Y	AM:INT1:FREQ 1 kHz kHzFM:INT2:FREQ 1 kHz kHzPM:INT2:FREQ 1 kHz kHzPULM:INT:FREQ 1 kHz
M3	For 8662A: <mod> = FM or AM, depending on which is on. Modulation source external AC	Y		<mod>:SOURce EXT <mod>:EXT:COUPling AC <mod>:EXT:IMP 600

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
	<p>For 8663A: <mod> = AM, FM, or PM, depending on which is on. <n> = 1 for AM, 2 for FM or PM NOTE: For PM, the impedance value is set using the SP71/SP70 commands</p>		Y	<mod>:SOURce EXT<n> <mod>:EXT<n>:COUPling AC <mod>:EXT<n>:IMP 600
M4	<p>For 8662A: <mod> = FM or AM, depending on which is on. Modulation source external DC</p>	Y		<mod>:SOURce EXT <mod>:EXT:COUPling DC <mod>:EXT:IMP 600
	<p>For 8663A: <mod> = AM, FM, or PM, depending on which is on. <n> = 1 for AM, 2 for FM or PM NOTE: For PM, the impedance value is set using the SP71/SP70 commands</p>		Y	<mod>:SOURce EXT<n> <mod>:EXT<n>:COUPling DC <mod>:EXT<n>:IMP 600
MF	<p>Modulation frequency</p> <p><mod> = FM, or PM, depending on which is on.</p> <p><i>Also see: M1, M2, and Table 6-2 on page 148</i></p>		Y	<p>AM: AM:SOUR: INT1 AM:SOUR:INT1:FREQ <freq></p> <p>FM or PM: <mod>:SOUR: INT2 <mod>:SOUR:INT2:FREQ <freq></p> <p>Pulse: PULM:SOUR: INT PULM:INT:FREQ <freq> PULM:SOUR:INT SQUARE</p>
MS	<p>Read status key message Returns status string.</p>	Y	Y	<i>no equivalent SCPI command sequence</i>
MV	mV	Y	Y	MV
MZ	MHz	Y	Y	MHZ
N1	Linear 100 steps	Y	Y	<i>See W2, W3, and W4</i>
N2	Linear 1000 steps	Y	Y	<i>See W2, W3, and W4</i>
N3	Step size	Y	Y	<i>See W2, W3,W4, and Table 6-2 on page 148</i>
N4	Log 10% steps	Y	Y	<i>See W2, W3, and W4</i>
N5	Log 1% steps	Y	Y	<i>See W2, W3, and W4</i>
PC	%	Y	Y	PCT
PL	<p>Pulse modulation Must have an instrument with pulse capability.</p>		Y	PULM:STAT ON

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
PM	Phase modulation Not compatible with any FM modulation.		Y	PM:STAT ON <i>See also: Table 6-2 on page 148</i>
R1	Knob resolution x10	N	N	<i>not supported</i>
R2	Knob resolution /10	N	N	<i>not supported</i>
R3	Knob off	N	N	<i>not supported</i>
R4 BLR1	Knob hold	N	N	<i>not supported</i>
R5 BLR2	Knob increment	N	N	<i>not supported</i>
RC	Recall	Y	Y	*RCL
RD	Knob down Only for manual sweep	Y	Y	LIST:MANual DOWN
RM	Read require service mask	N	N	<i>not supported</i>
RU	Knob up Only for manual sweep	Y	Y	LIST:MANual UP
SP00	System preset Presets the instrument, including the compatibility language.	Y	Y	SYSTEM:PRESet
SP10	Frequency offset off	Y	Y	FREQ:OFFS:STAT OFF
SP11	Positive frequency offset The 8662 modifies the output, but does not change the displayed frequency; the ESG modifies the displayed frequency, but does <i>not</i> change the output. Because of this, you must first set the offset, then reapply the frequency to change the output.	Y	Y	FREQ:OFFS <value> FREQ:OFFS:STAT ON FREQ:CW <displayed value>
SP12	Negative frequency offset The 8662 modifies the output, but does not change the displayed frequency; the ESG modifies the displayed frequency, but does <i>not</i> change the output. Because of this, you must first set the offset, then reapply the frequency to change the output.	Y	Y	FREQ:OFFS <value> FREQ:OFFS:STAT ON FREQ:CW <displayed value>
SP20	ALC bandwidth normal		Y	POWER:ALC:BANDwidth:AUTO ON
SP21	ALC bandwidth < 1 kHz		Y	POWER:ALC:BANDwidth:AUTO OFFPOWER:ALC:BANDwidth 1KHZ
SP30	Amplitude reference off	Y	Y	POW:REF:STATe OFF
SP31	Amplitude reference	Y	Y	POW:REF <val> <val> = current amplitude setting POW:REF:STATe ON

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
SP32	Amplitude reference relative to 1 μ V		Y	POW:REF 106.99DBM POW:REF:STATe ON POW 1UV
SP40	External AM off	Y		AM:STAT OFF
	Modulation frequency sweep mode off		N	<i>not supported</i>
SP41	Internal FM + external AM (AC)	Y		FM:SOUR INT1 FM:INT1:FREQ 400 HZ FM:STAT ON AM:SOUR EXT1 AM:EXT1:IMP 600 AM:DEPTH 95 PCT AM:EXT1:COUP AC AM:STAT ON
	Modulation frequency sweep mode on		N	<i>not supported</i>
SP42	Internal FM + external AM (DC)	Y		FM:SOUR INT1 FM:INT1:FREQ 400 HZ FM:STAT ON AM:SOUR EXT1 AM:EXT1:IMP 600 AM:DEPTH 95 PCT AM:EXT1:COUP DC AM:STAT ON
SP50	AUX FM off	Y	Y	FM2:STAT OFF
SP51	AUX FM on			
	RF (MHz) FM Deviation (kHz) 0.01–120 25 <dev> is dependant on output frequency, 120–160 6.25 and mimics the 8662 hardware settings. 160–320 12.5 320–640 25 NOTE: The deviation for this command 640–1280 50 cannot be greater than the deviation of the 1280–2560 100 FM1 path.	Y	Y	FM2:SOUR EXT2 FM2:EXT2:COUP DC FM2:EXT2:IMP 600 FM2:DEV <dev> kHz FM2:STAT ON
SP60	Parameter shift keying off	N	N	<i>not supported</i>
SP61	Parameter shift keying up/down (two-key)	N	N	<i>not supported</i>
SP62	Parameter shift keying up/down (one-key)	N	N	<i>not supported</i>
SP70	External PM input impedance 50 Ω Effects the behavior of M3 and M4.		Y	<i>no equivalent SCPI command sequence</i>

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
SP71	External PM input impedance 600Ω Effects the behavior of M3 and M4.		Y	<i>no equivalent SCPI command sequence</i>
SP80	Special functions 10-62 off	Y	Y	FM2:STAT OFF AM:STAT OFF FREQ:OFFS:STAT OFF
SP81	Amplitude conversion (V-dBm)	N	N	<i>not supported</i>
SP82	Display GPIB address	N	N	<i>not supported</i>
SP83	ROM test	N	N	<i>not supported</i>
SP84	RAM test	N	N	<i>not supported</i>
SP85	Amplitude correction off	Y	Y	POWER:ALC:STATe OFF
SP86	Amplitude correction on ESG ALC ON always works with sweep.	Y	Y	POWER:ALC:STATe ON
SP87	Amplitude correction on (includes Sweep)		Y	POWER:ALC:STATe ON
SP87	GPIB operator request response	N		<i>not supported</i>
SP88	Auto sequence	N	N	<i>not supported</i>
SP89	GPIB operator request response		N	<i>not supported</i>
SP90	Set auto sequence step delay		N	<i>not supported</i>
SP91	Enable frequency hopping mode		N	<i>not supported</i>
SP92	Knob (restore normal operation)		N	<i>not supported</i>
SP93	Manual amplitude level control		N	<i>not supported</i>
SP94	Knob, 120 increments per revolution		N	<i>not supported</i>
SP95	Knob, 120 increments per revolution, reconfigure AUX con.		N	<i>not supported</i>
SP96	Modulation oscillator off when modulation is off		N	<i>not supported</i>
SP97	Modulation oscillator on		N	<i>not supported</i>
SP98	Turn display on		Y	DISP ON
SP99	Turn display off		Y	DISP OFF
SP2.0	Power up preset off		N	<i>not supported</i>
SP2.1	Power up preset on		N	<i>not supported</i>
SQ	Sequence	N	N	<i>not supported</i>

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
SS BLST	Set sequence	N	N	<i>not supported</i>
ST	Store Saves/recalls register to sequence 0.	Y	Y	*SAV
T1	0.5 ms per step	Y	Y	SWEEP:DWELL 0.5ms <i>Beyond ESG range limit; is set to 1ms.</i>
T2	1 ms per step	Y	Y	SWEEP:DWELL 1ms
T3	2 ms per step	Y	Y	SWEEP:DWELL 2ms
T4	10 ms per step	Y	Y	SWEEP:DWELL 10ms
T5	100 ms per step	Y	Y	SWEEP:DWELL 100ms
TR	Trigger Performs command code setup with CT command.	Y	Y	<i>no equivalent SCPI command sequence</i>
UP	Increment Passes UP as a parameter of the active function command.	Y	Y	See Table 6-2 on page 148
UV	mV	Y	Y	UV
W1	Sweep off	Y	Y	FREQ:MODE CW LIST:TRIG:SOUR IMM
W2	Auto sweep mode on Generates a sweep list based on stored parameters from FA, FB, FR, FS, N1, N2, N3, N4, and N5 Default values: FR = 100 MHz, FS = 10 MHz, N1, T2 FA = 1 MHz, FB = 1279 MHz	Y	Y	INIT:CONT ON SWEEP:MODE AUTO LIST:TRIG:SOUR IMM LIST:DWELL:TYPE STEP LIST:TYPE LIST FREQ:MODE LIST
W3	Manual sweep mode on Generates a sweep list based on stored parameters from FA, FB, FR, FS, N1, N2, N3, N4, and N5 Default values: FR = 100 MHz, FS = 10 MHz, N1, T2 FA = 1 MHz, FB = 1279 MHz	Y	Y	INIT:CONT ON SWEEP:MODE MANUal LIST:TRIG:SOUR IMM LIST:DWELL:TYPE STEP LIST:TYPE LIST FREQ:MODE LIST

Table 6-1 8662A/63A Commands & Equivalent SCPI Sequences (Continued)

Command	Description	8662	8663	Equivalent SCPI Command Sequence
W4	Single sweep mode on Generates a sweep list based on stored parameters from FA, FB, FR, FS, N1, N2, N3, N4, and N5 Default values: FR = 100 MHz, FS = 10 MHz, N1, T2 FA = 1 MHz, FB = 1279 MHz	Y	Y	INIT:CONT OFF SWEEP:MODE AUTO LIST:TRIG:SOUR IMM LIST:DWELL:TYPE STEP LIST:TYPE LIST FREQ:MODE LIST INIT
X1	Marker 1	N	N	<i>not supported</i>
X2	Marker 2	N	N	<i>not supported</i>
X3	Marker 3	N	N	<i>not supported</i>
X4	Marker 4	N	N	<i>not supported</i>
X5	Marker 5	N	N	<i>not supported</i>
X6	Marker off	N	N	<i>not supported</i>
X7 BLX6	All markers off	N	N	<i>not supported</i>
Y0	Remote stepped sweep off	Y	Y	FREQ:MODE CW LIST:TRIG:SOUR IMM
Y1 Y2	Remote stepped sweep on	Y	Y	INIT:CONT ON SWEEP:MODE AUTO LIST:DWELL:TYPE STEP LIST:TYPE LIST FREQ:MODE LIST LIST:TRIG:SOUR BUS
Y3	Execute remote stepped sweep	Y	Y	*TRG

Table 6-2 8662/63B Command Compatibility

Command	Description	Sets Active Function	Compatible with UP/DN	8662	8663	Equivalent SCPI Commands for UP/DN and Increment
AM	AM modulation	Y	Y	Y	Y	AM:DEPTH UP AM:DEPTH DOWN AM:DEPTH:STEP:INCR
AP	Amplitude	Y	Y	Y	Y	POW:AMPL UP POW:AMPL DOWN POW:AMPL:STEP:INCR

Table 6-2 8662/63B Command Compatibility (Continued)

Command	Description	Sets Active Function	Compatible with UP/DN	8662	8663	Equivalent SCPI Commands for UP/DN and Increment
FA	Start frequency	Y	Y	Y	Y	FREQ:CW:STEP:INCR
FB	Stop frequency	Y	Y	Y	Y	FREQ:CW:STEP:INCR
FM	FM modulation	Y	Y	Y	Y	FM:DEV UP FM:DEV DOWN FM:DEV:STEP:INCR
FR	Center frequency	Y	Y	Y	Y	FREQ:CW UP FREQ:CW DOWN FREQ:CW:STEP:INCR
FS	Span frequency	Y	Y	Y	Y	FREQ:CW:STEP:INCR
MF	Modulation frequency	Y	Y		Y	<mod>:INT:FREQ UP <mod>:INT:FREQ DOWN <mod>:INT:FREQ:STEP:INCR <mod> = AM FM PM PULM
N3	Step size	Y	Y	Y	Y	<i>no equivalent SCPI commands</i>
PM	Phase modulation Not compatible with any FM modulation.	Y	Y		Y	PM:DEV UP PM:DEV DOWN PM:DEV:STEP:INCR

8662A/63A Commands

8662A/63A Compatible Commands