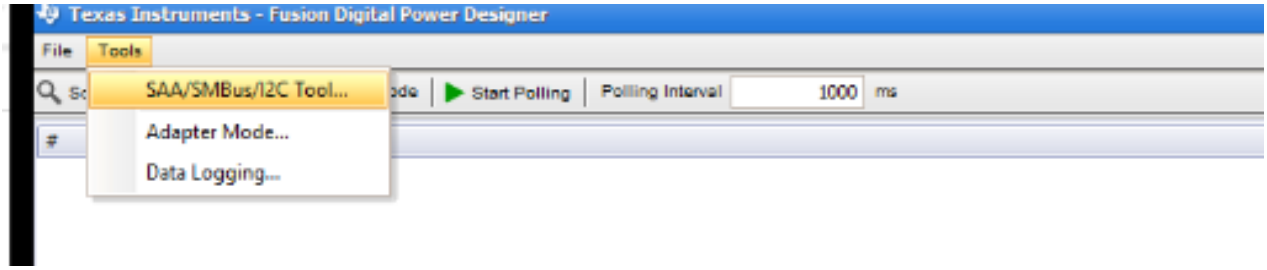
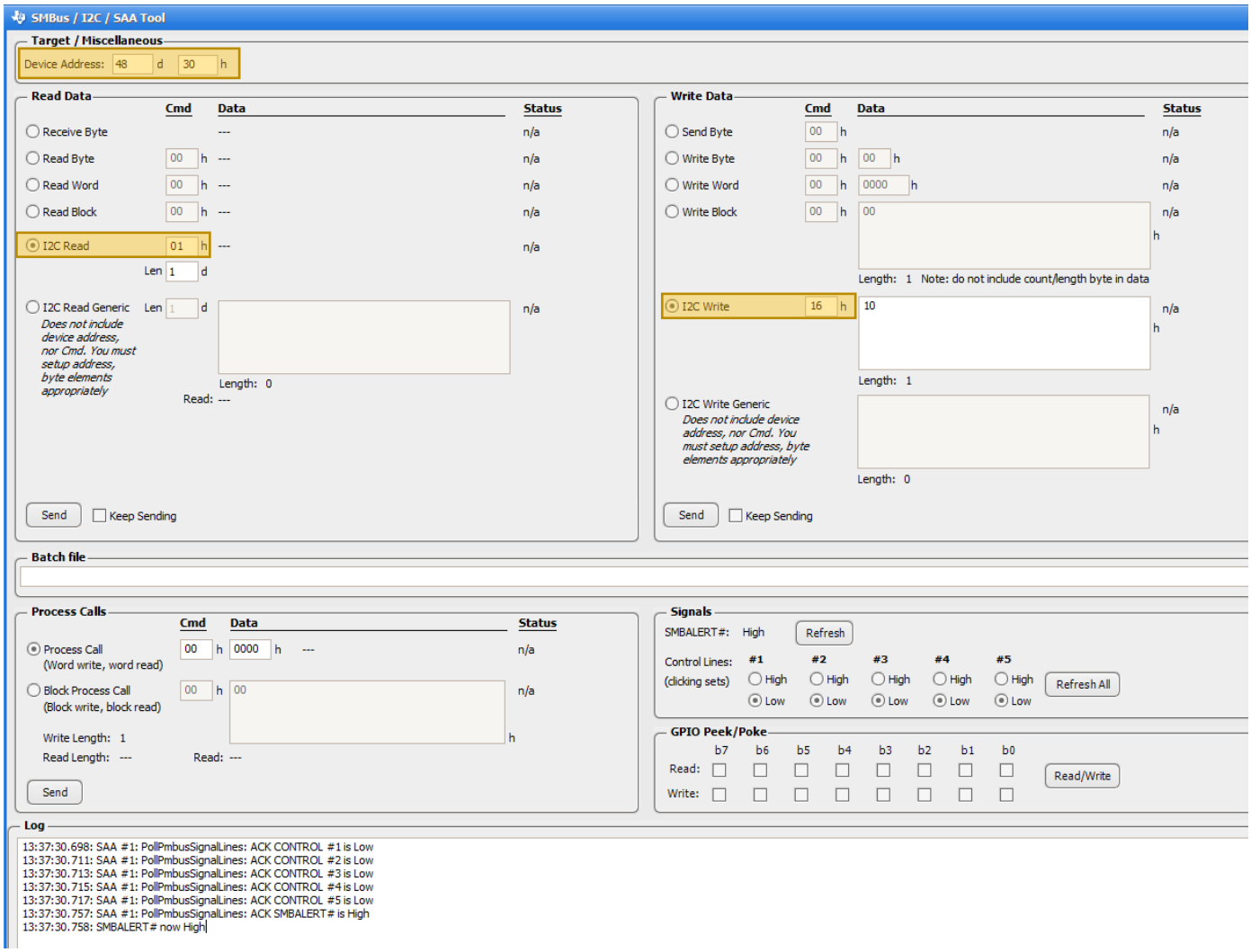
Open Software:

1. Open the Fusion Power Designer software. On the home page locate the “Tools” section in the top ribbon and click on “SAA/SMBus/I2C Tool”



2. Once the interface opens locate the following Device Address, I2C Read, and I2C write. In the “Device Address” box enter the current device address of the device based on the resistor placed at the ADRR pin.



Example One: Disabling Monitoring

Monitoring can be disabled using register 0x1E of Bank One. This register assigns a bit to every monitoring channel. In the case of TPS389006004RTERQ1 0x1E will contain a data value of 00111111 or 0x3F by default, meaning CH1 trough CH6 have monitoring enabled. Where the LSB corresponds to CH1.

8.5.2.14 MON_CH_EN Register (Address = 0x1E) [Default = X]

MON_CH_EN is shown in Table 8-88.

Return to the Summary Table.

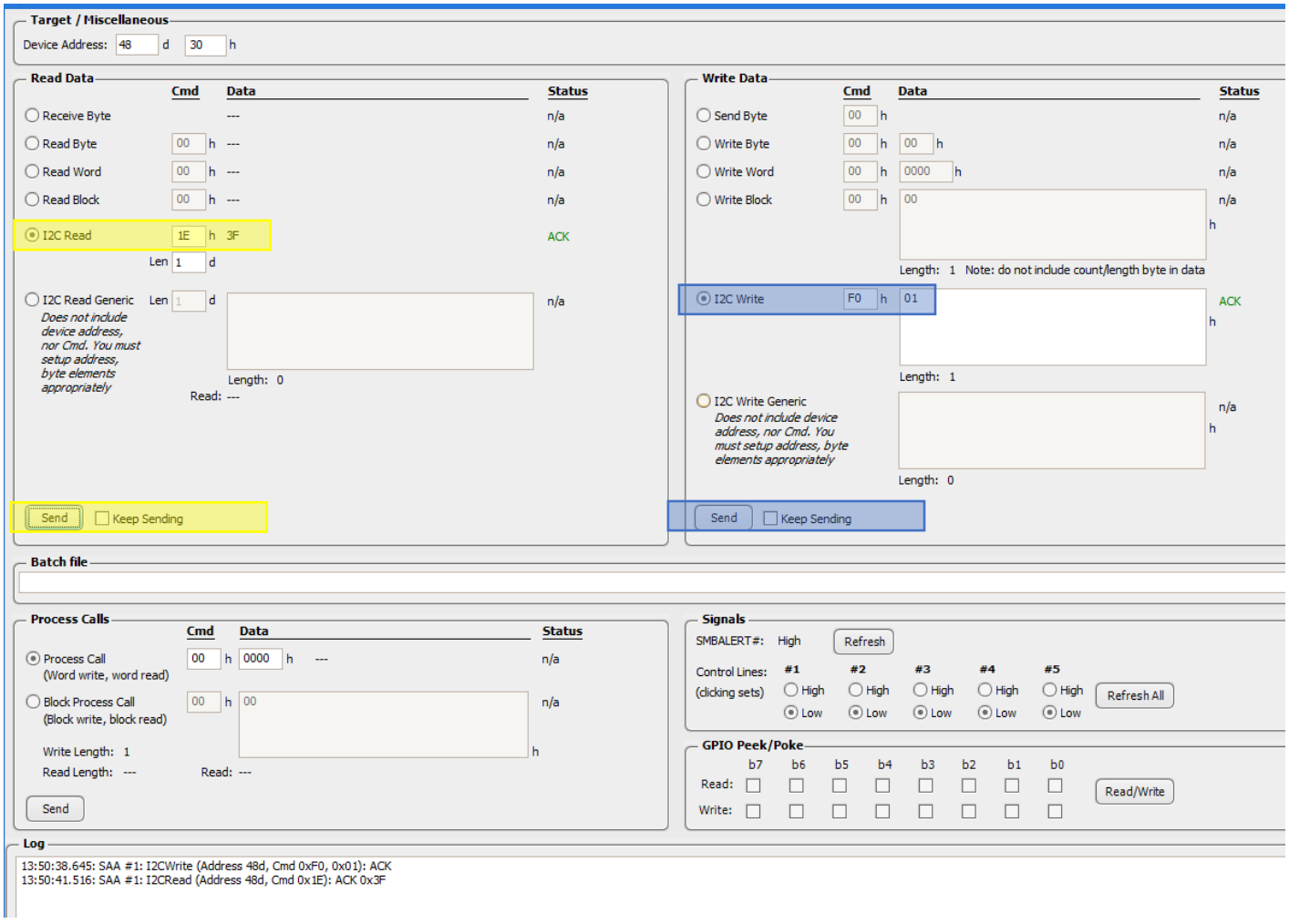
Channel 1-6 Voltage Monitoring Enable register.

Table 8-88. MON_CH_EN Register Field Descriptions

Bit	Field	Type	Default	Description
7:6	RSVD	R/W	X	RSVD
5:0	MON[N]	R/W	0b	Voltage Monitoring Enable for VIN channel N (1 through 6). 0 = Channel Monitor disabled 1 = Channel Monitor enabled

To perform a read operation of register 0x1E of Bank One the user will first need to access Bank One of the register map. To perform this operation, write data 0x01 to register 0xF0, highlighted in blue below. Once the software provides an ACK the user has entered BANK One.

Now to read the register 0x1E provide the desired register address in the entry box next to the “I2C Read” text (highlighted in yellow), hit send. The data log below will provide the received read from the register.



To disable the monitoring capability of every monitoring channel the user must write data 0x00 (00000000) to register 0x1F. This is done using the same “I2C Write” entry, highlighted in blue. Once the interface responds with an ACK the write command has been successful.