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E4407B RYTHM Repair / Replace Date ▾ (<https://groups.io/g/HP-Agilent-Keysight-equipment/topic/80965430?p=Created%2C%2C%2C20%2C1%2C0%2C0>)

Peter Hansen

9:26am (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/126647>)

Hello Kalle and Bob I worked out a method of adjusting a bad RYTHM tower. That works for the HP8563E and for the E4407. They share the tower as far as I know.

Problem is the E4407 cannot be calibrated without special software that is not available.

After a Tower adjust it is needed to adjust the flatness over the band from 2.9 to 26.5Ghz

best regards Peter

Fra: HP-Agilent-Keysight-equipment@groups.io <HP-Agilent-Keysight-equipment@groups.io> på vegne af Kalle Kempe <kalle.kempe@gmail.com>

Sendt: 25. maj 2022 22:12

Til: HP-Agilent-Keysight-equipment@groups.io <HP-Agilent-Keysight-equipment@groups.io>

Emne: Re: [HP-Agilent-Keysight-equipment] E4407B RYTHM Repair / Replace

Hi Bob,

I am working on my own RYTHM with some success.

Can you do the following:

Insert CW at 4GHz, -20dBm.

Apply the following settings on E4407B:

Center freq 4GHz

Span 250MHz

Resolution BW 1MHz, Video BW 1MHz

Preselector Center: Front Panel Access: AMPLITUDE/Y Scale, Presel Center

Do you get a peak of reasonable amplitude at 4GHz after this?

If you do, then your YTF polynomial might be off. I am working on a procedure for this.

Best regards

Reply

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Kalle Kempe

May 25 (<https://groups.io/g/HP-Agilent-Keysight-equipment/message/126629>)

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Bob S. (/g/HP-Agilent-Keysight-equipment/profile/5856329)

2021-02-27 <https://groups.io/g/HP-Agilent-Keysight-equipment/message/114205>

I have an E4407B with no high band response. Low band works fine. I've checked things out as per the manual and its pretty clear that the RYTHM is pooched (p/n 5087-6031 or 5087-7031). I'm guessing a blown mixer or open pin diode switch.

I called one place for a repair quote - insane.

And ebay replacement prices are pretty pricey too. Anyone know where one can get a repair done at a reasonable cost?

Thanks
Bob

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[→ \(https://groups.io/g/HP-Agilent-Keysight-equipment/topic/91358653?p=,,,20,0,0,0::,,,0,0,0,91358653\)](https://groups.io/g/HP-Agilent-Keysight-equipment/topic/91358653?p=,,,20,0,0,0::,,,0,0,0,91358653)

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