

## R8C/33T Group OCVREF characteristics

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Prepared on Jun. 30, 2010

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# A-D accuracy 10bit

Type: R8C/33T Group

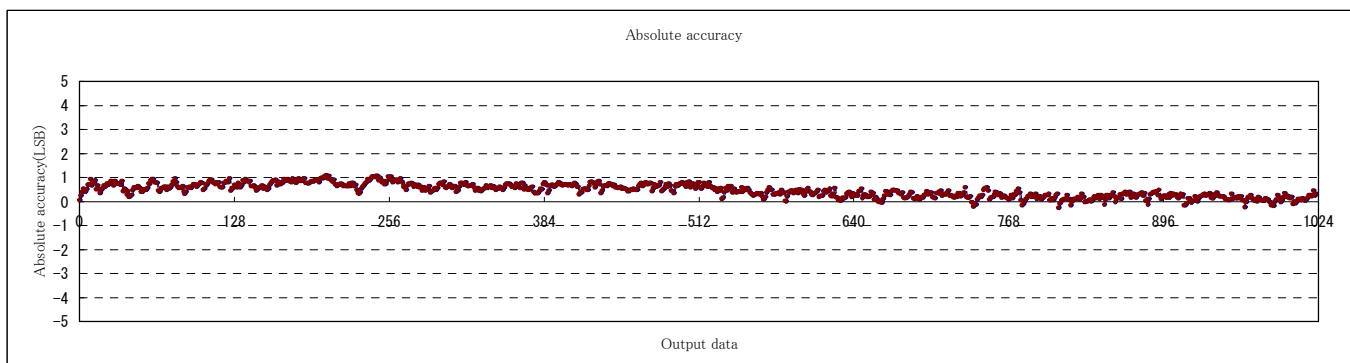
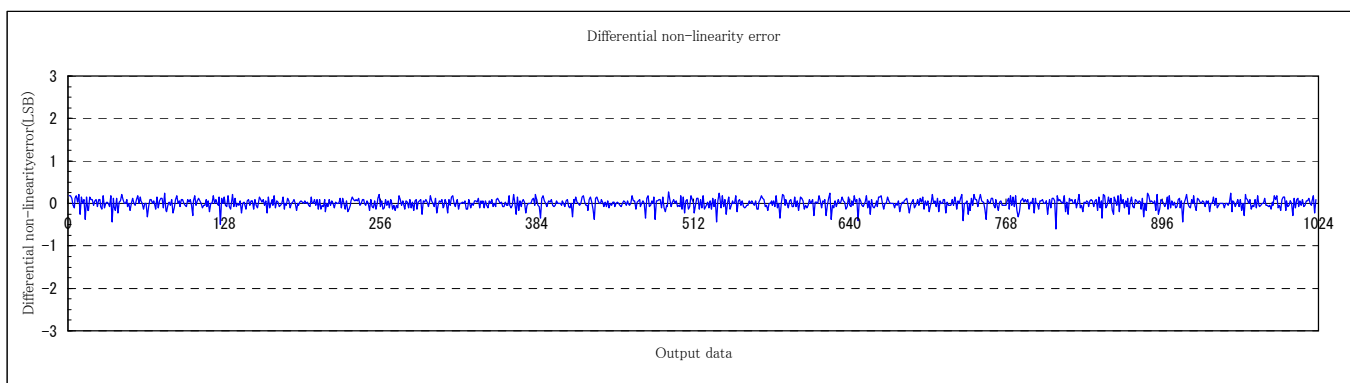
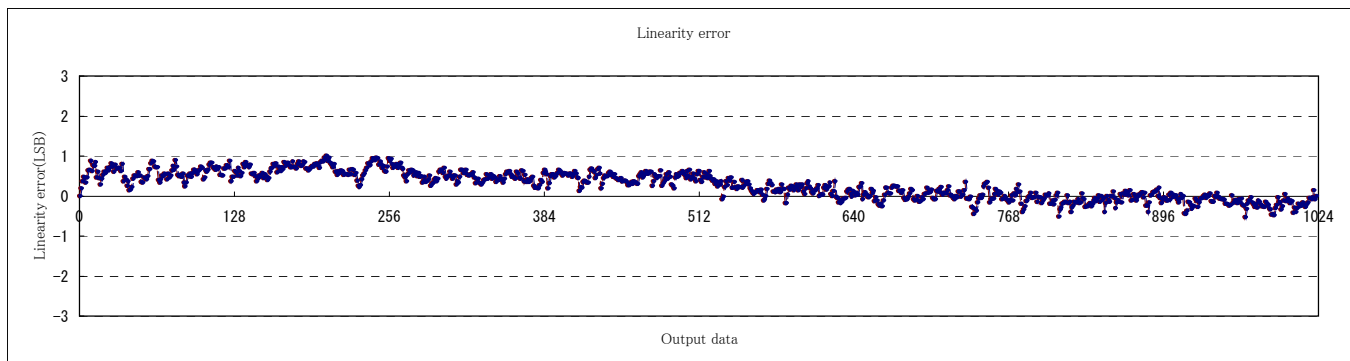
Topr=25 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=5.0V

Xin=20MHz  $\phi$ AD=20MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

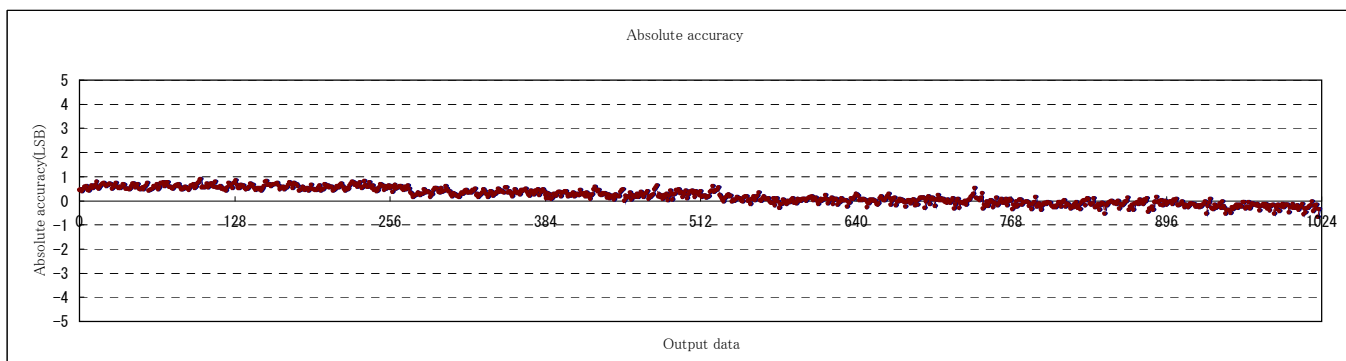
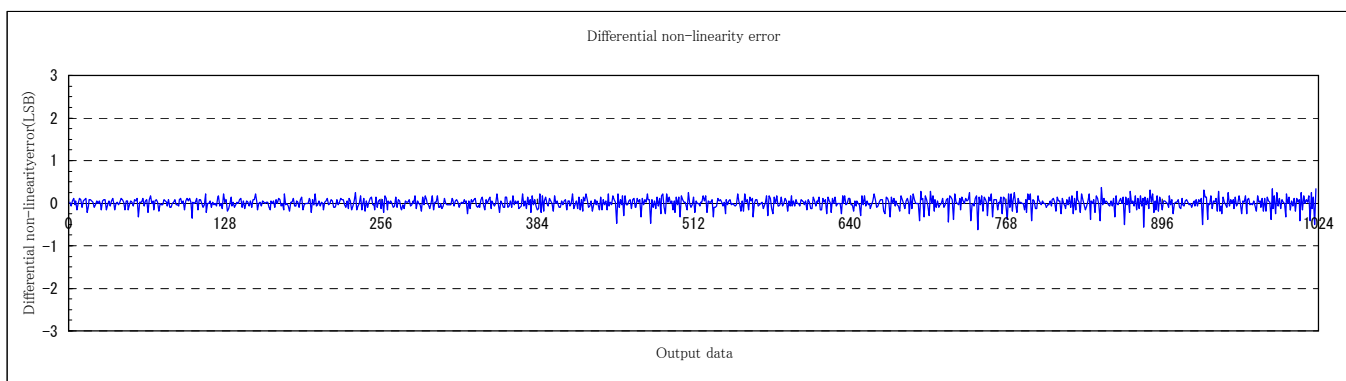
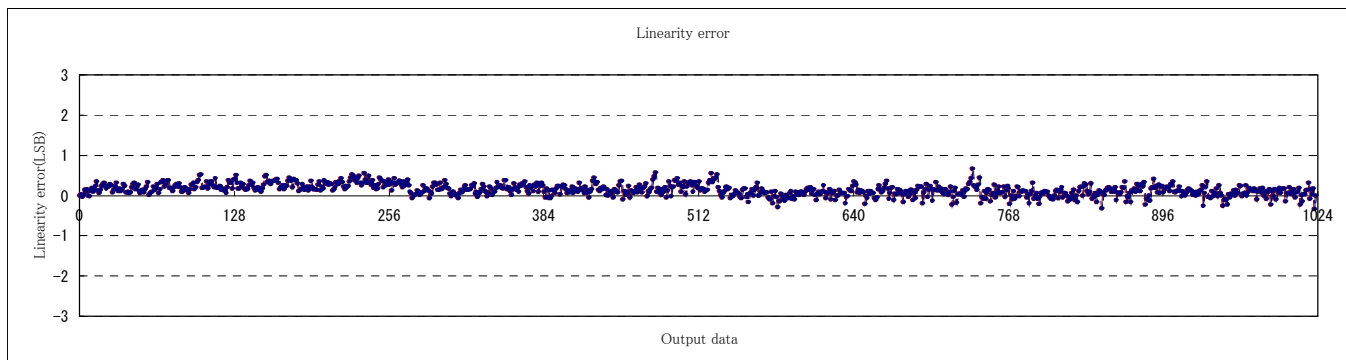
Topr=85 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=5.0V

Xin=20MHz  $\phi$ AD=20MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

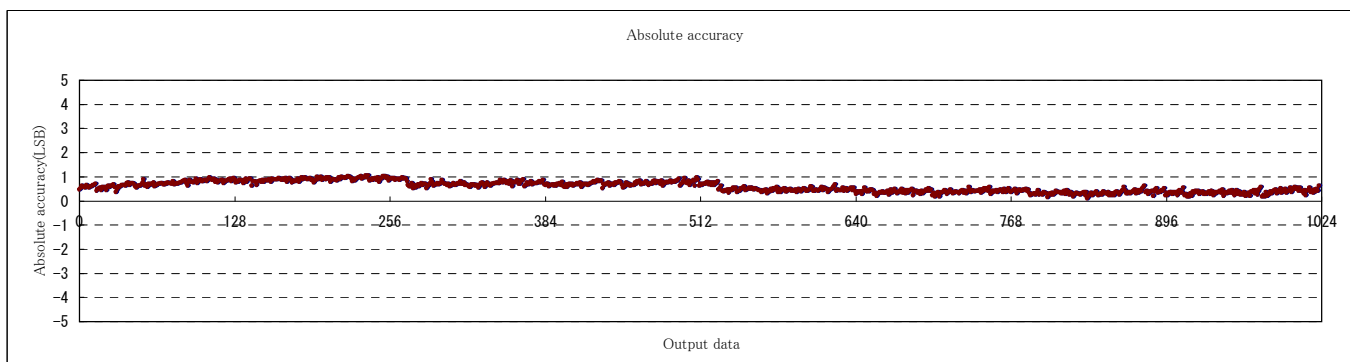
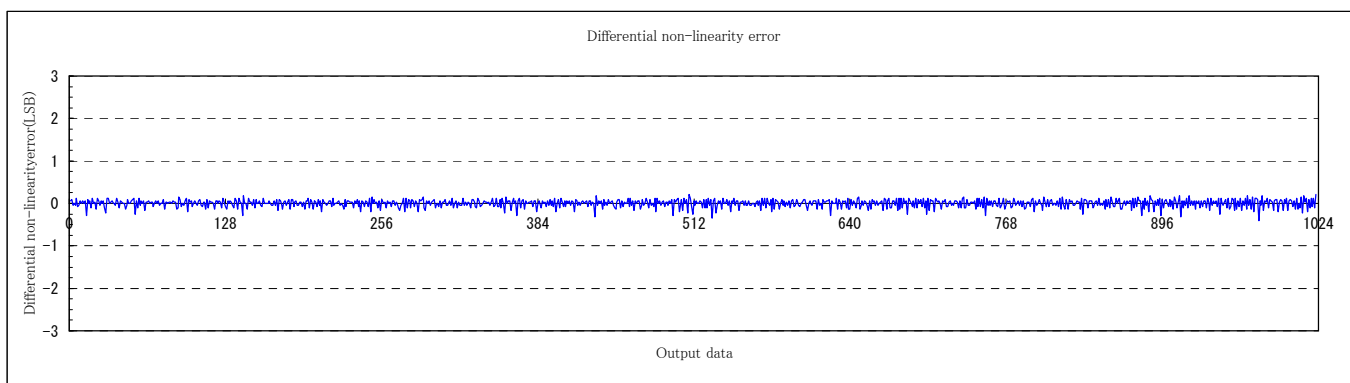
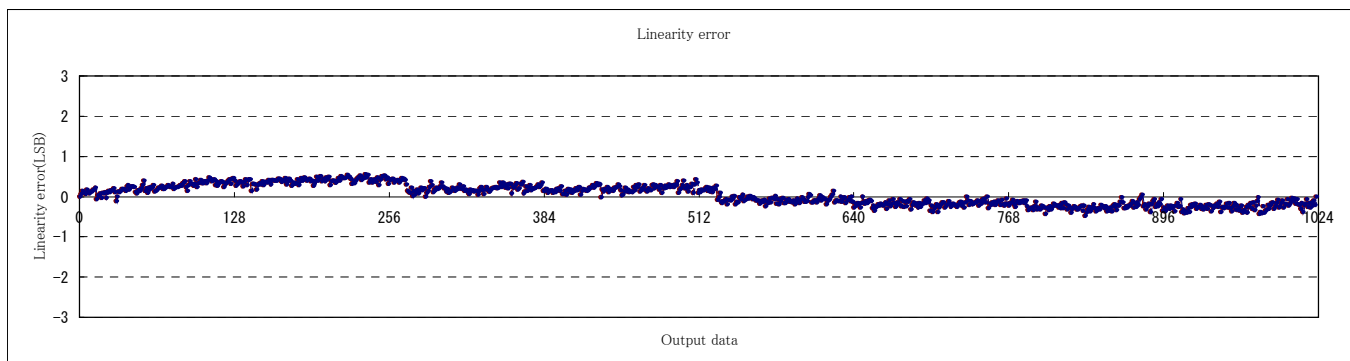
Topr=-40 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=5.0V

Xin=20MHz  $\phi$ AD=20MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

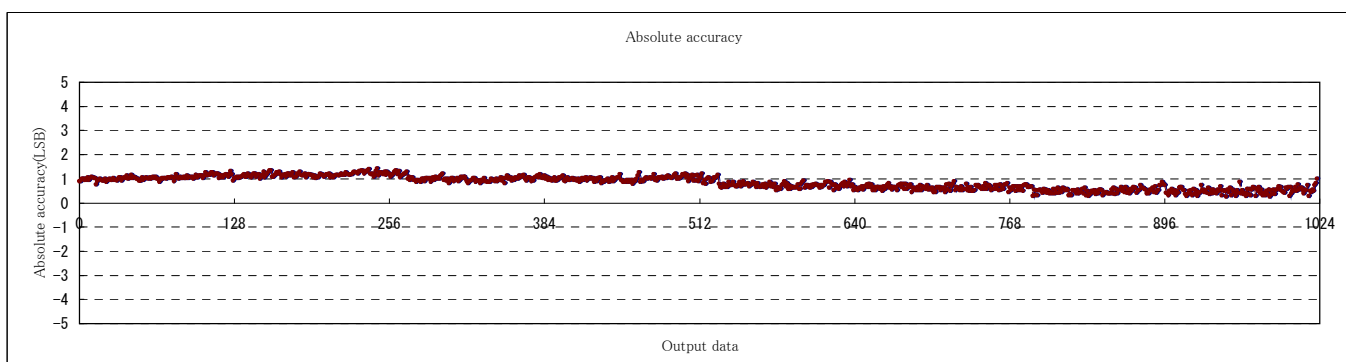
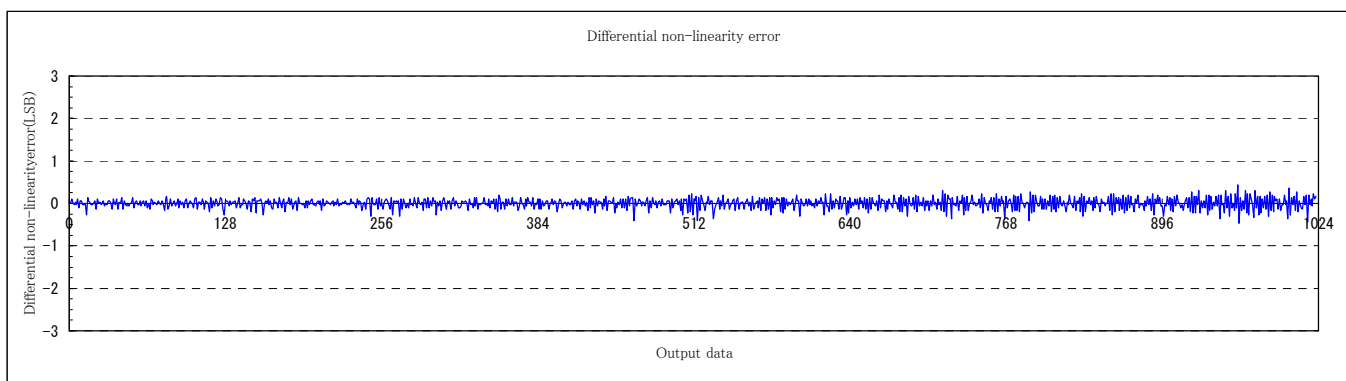
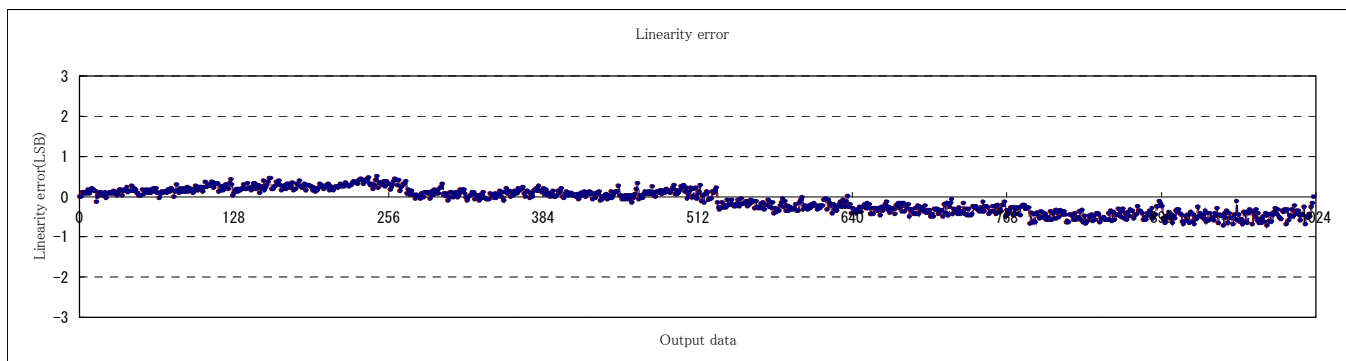
Topr=25 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=3.3V

Xin=16MHz  $\phi$ AD=16MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

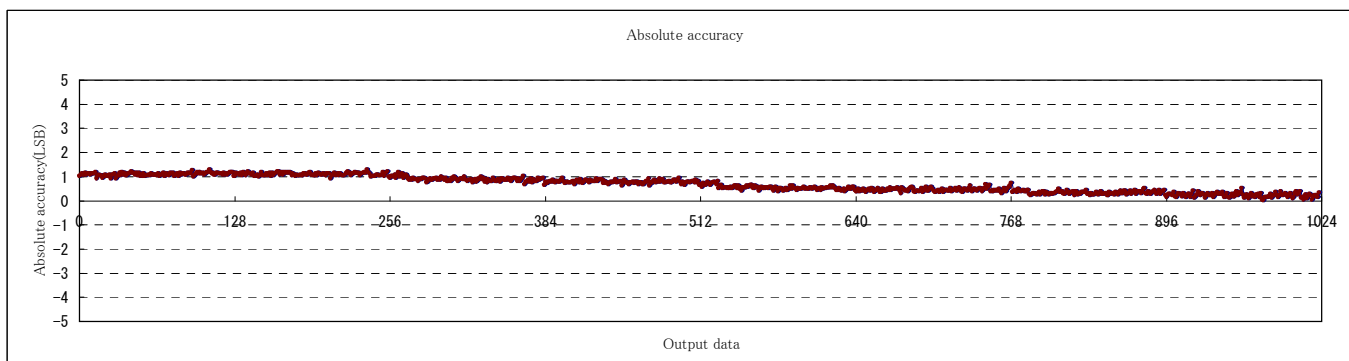
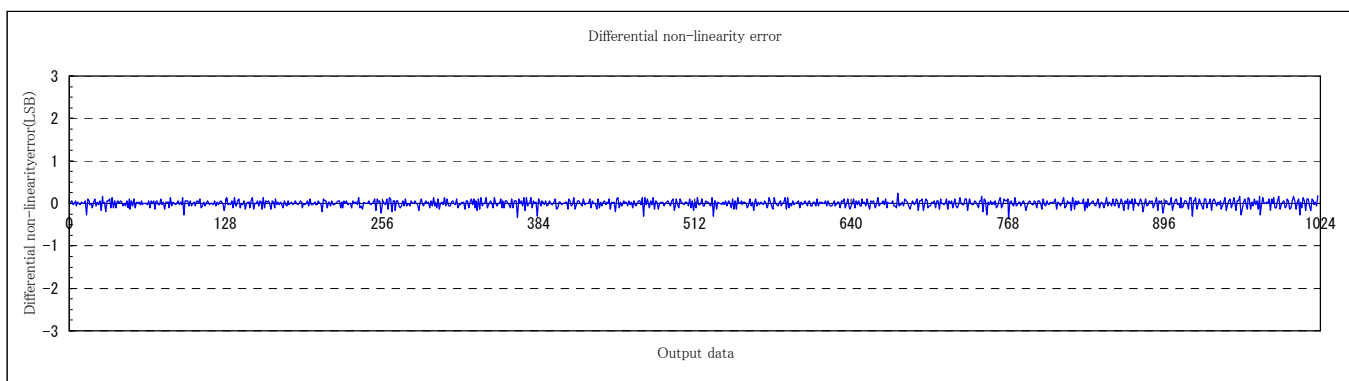
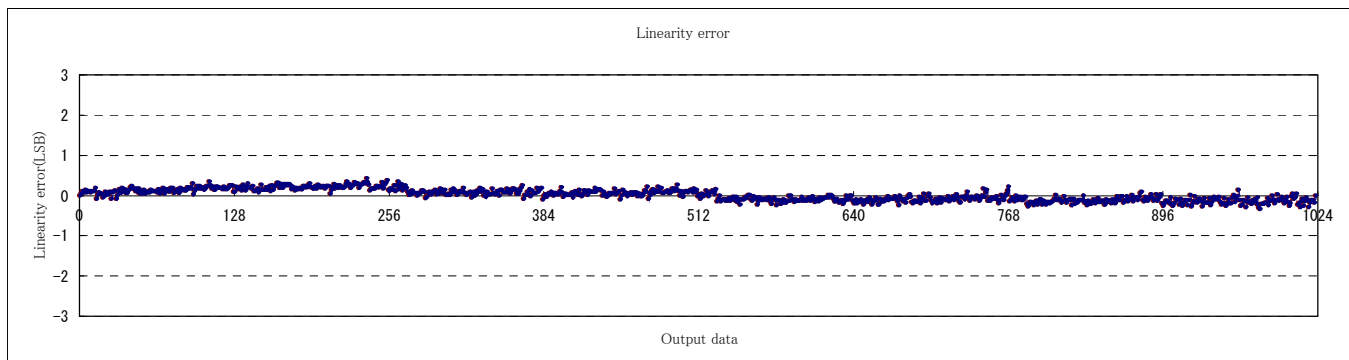
Topr=85 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=3.3V

Xin=16MHz φAD=16MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

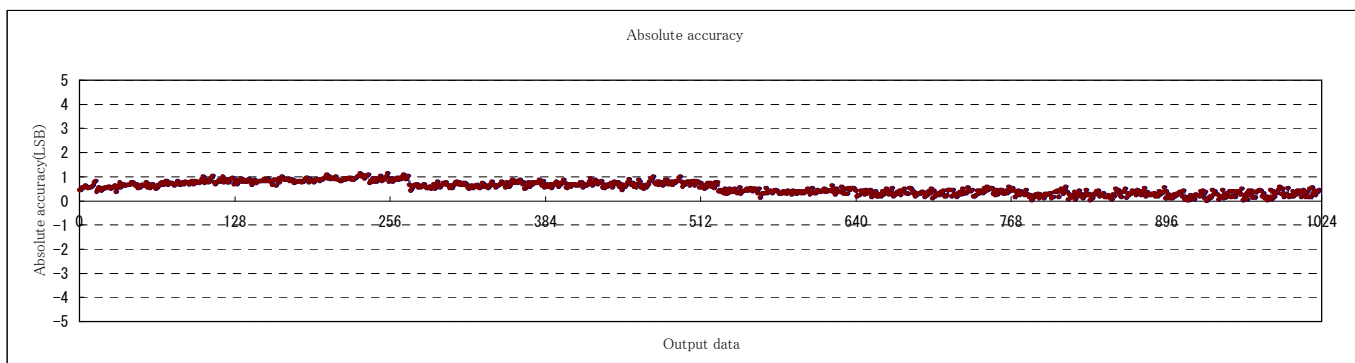
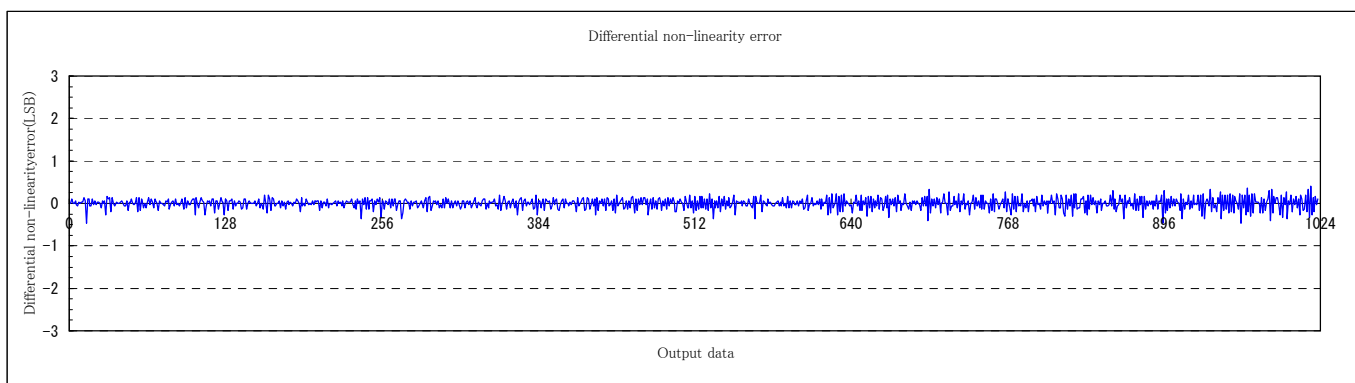
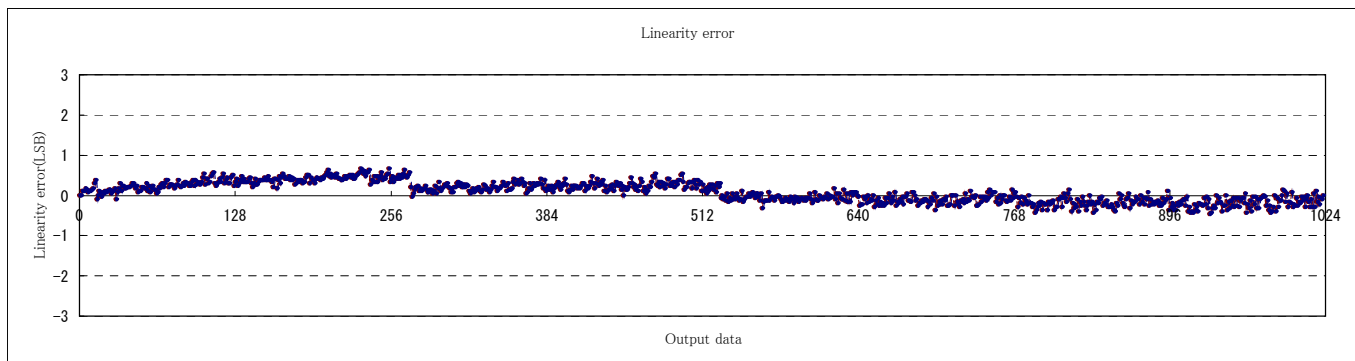
Topr=-40 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=3.3V

Xin=16MHz φAD=16MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

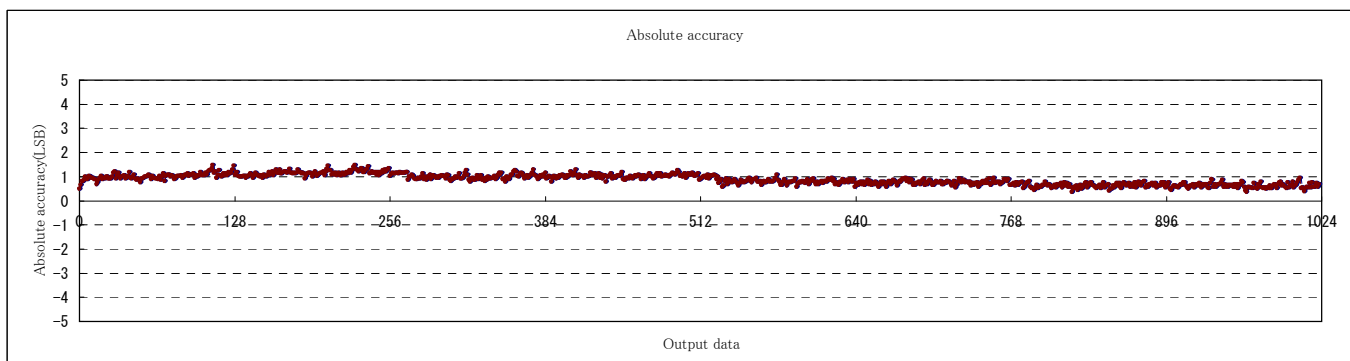
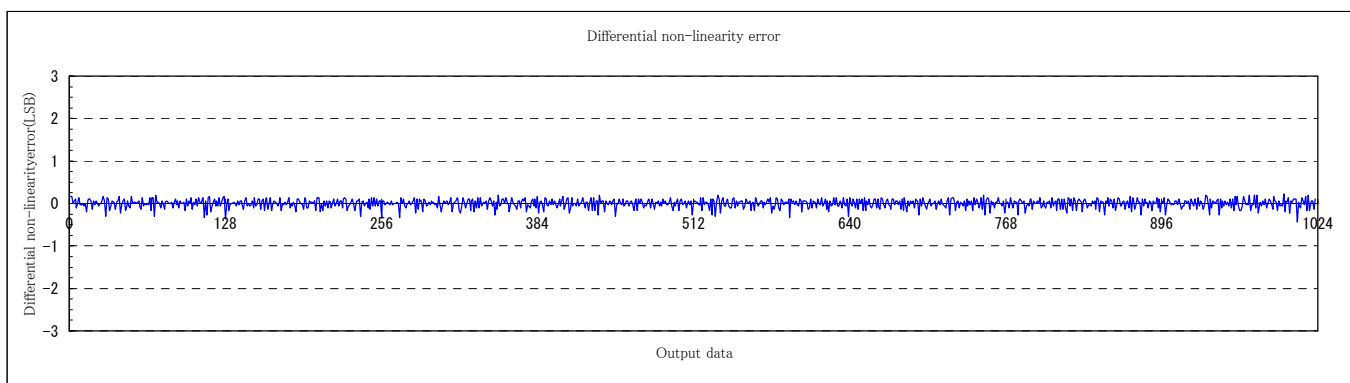
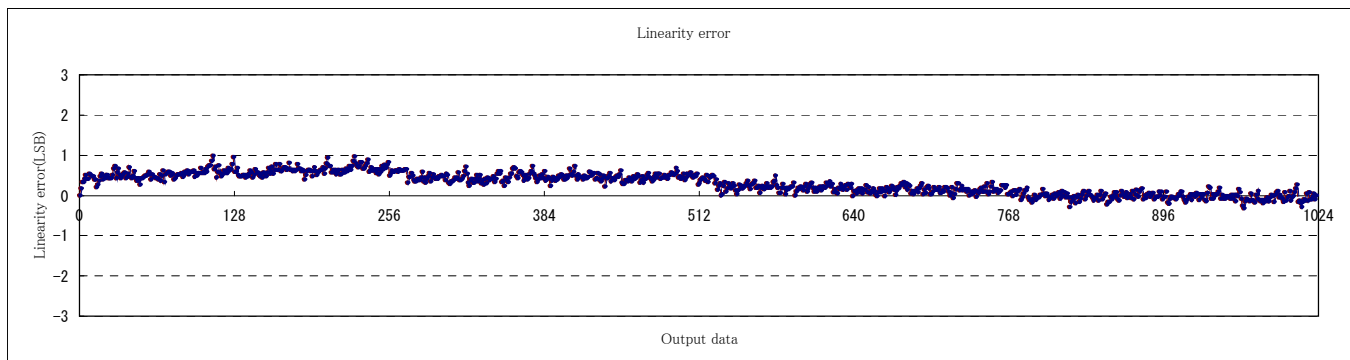
Topr=25 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=3.0V

Xin=10MHz  $\phi_{AD}$ =10MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

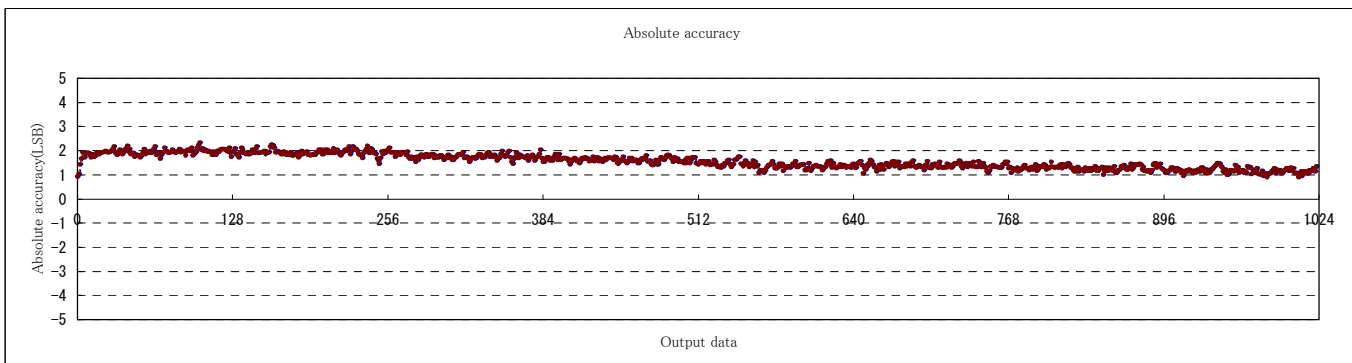
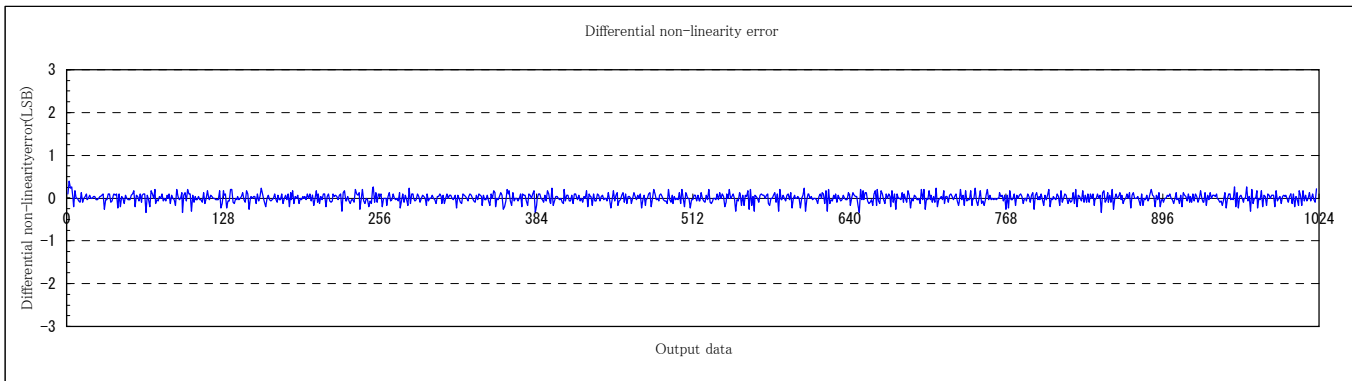
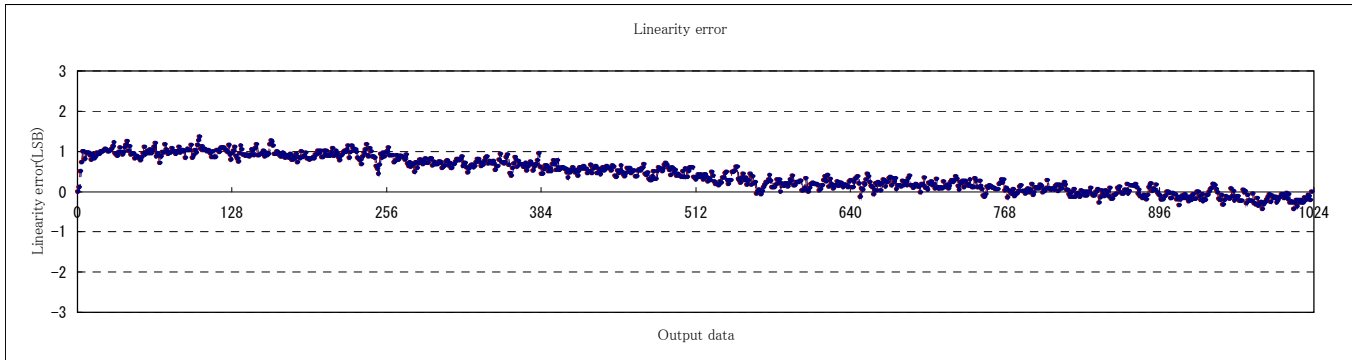
Topr=85 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=3.0V

Xin=10MHz  $\phi$ AD=10MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

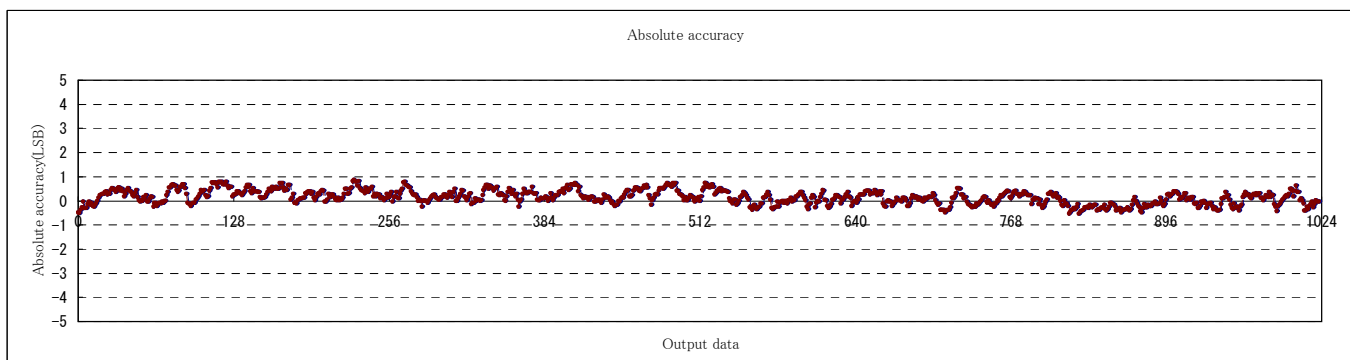
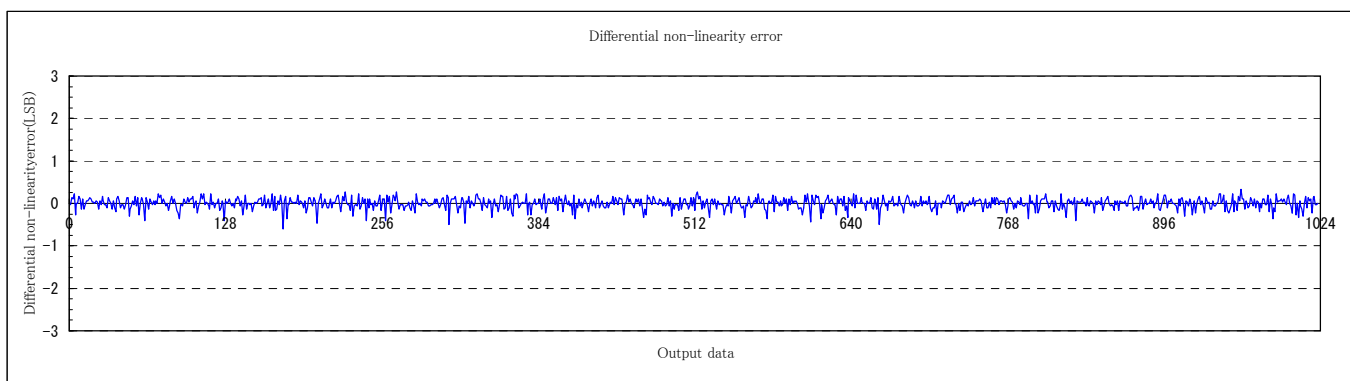
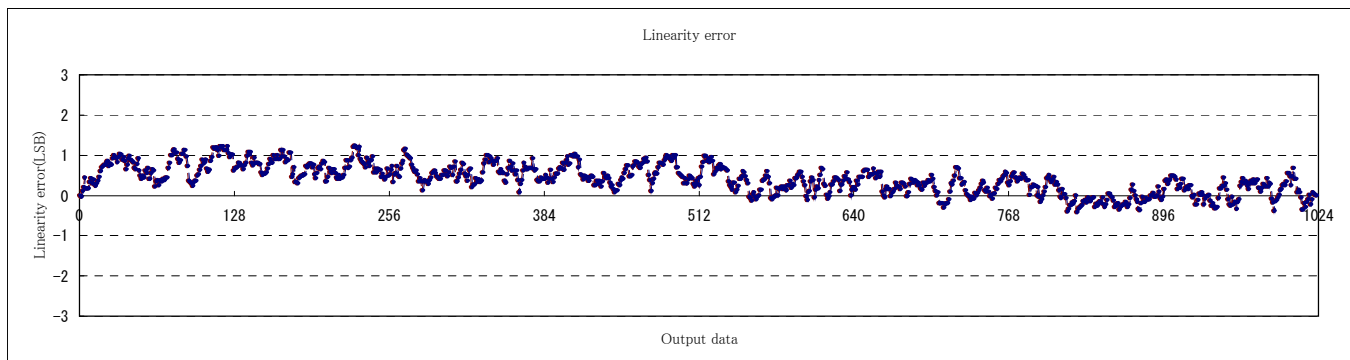
Topr=-40 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=3.0V

Xin=10MHz φAD=10MHz Repeat mode

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Type: R8C/33T Group

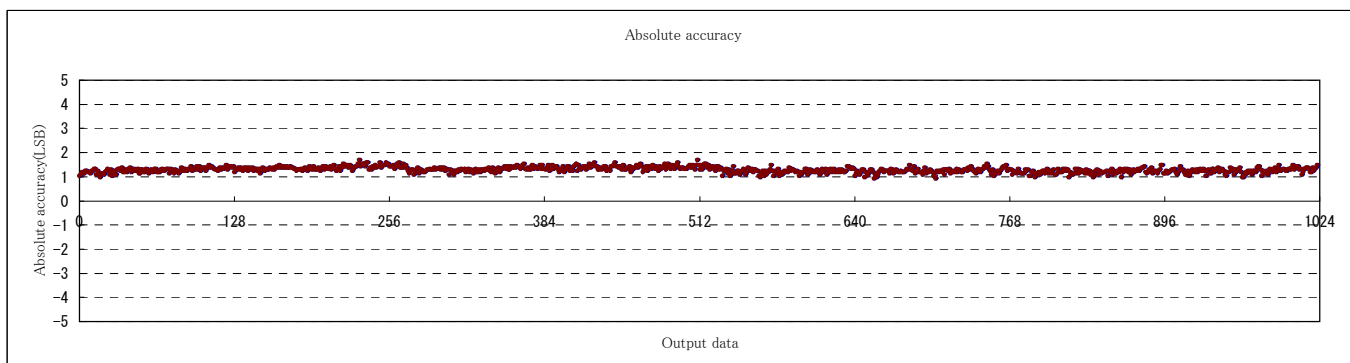
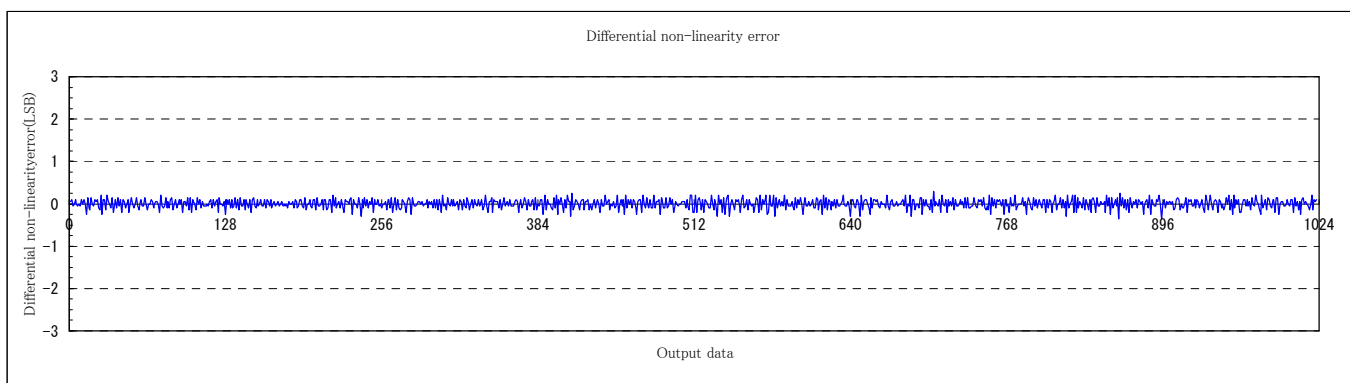
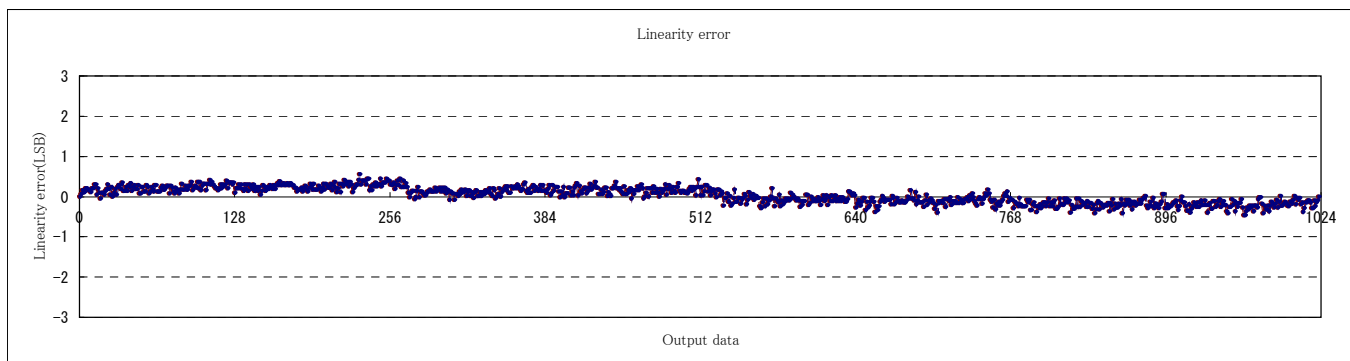
Topr=25 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=2.0V

Xin=5MHz φAD=5MHz Repeat mode

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# A-D accuracy 10bit

Type: R8C/33T Group

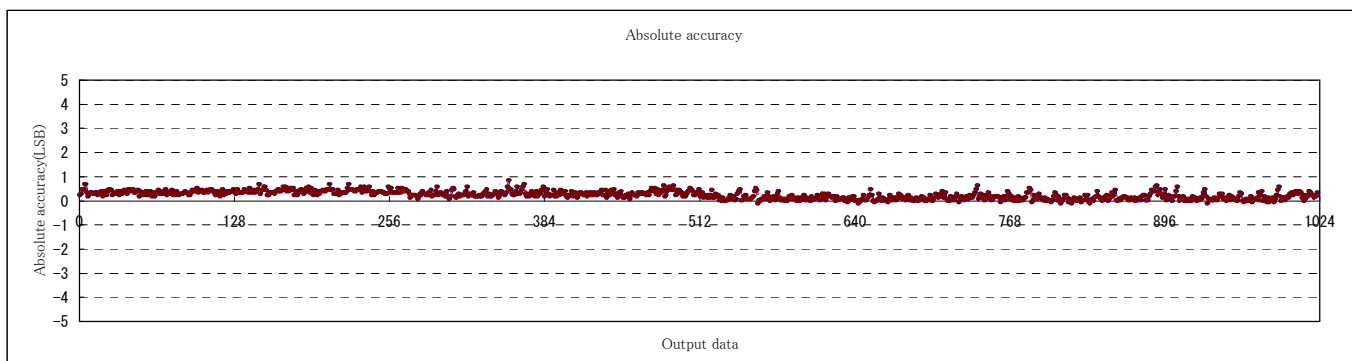
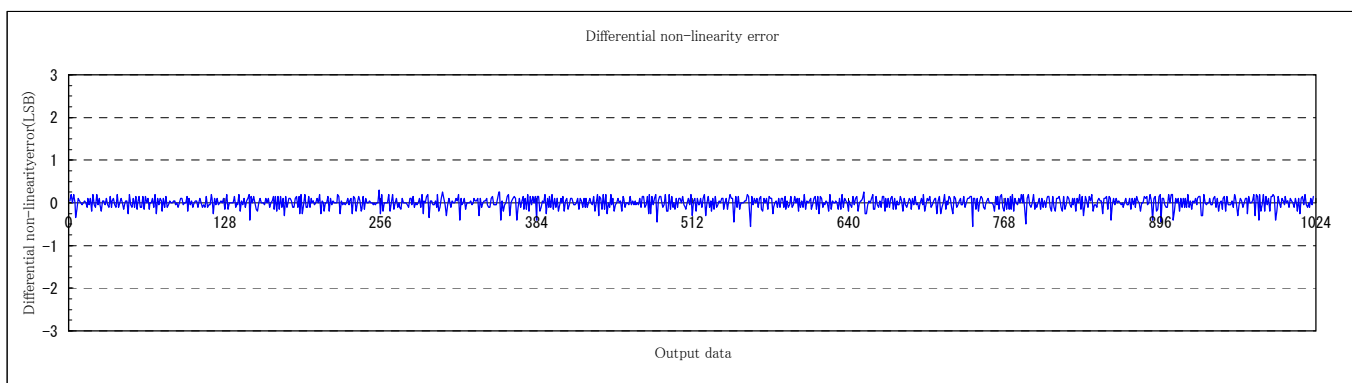
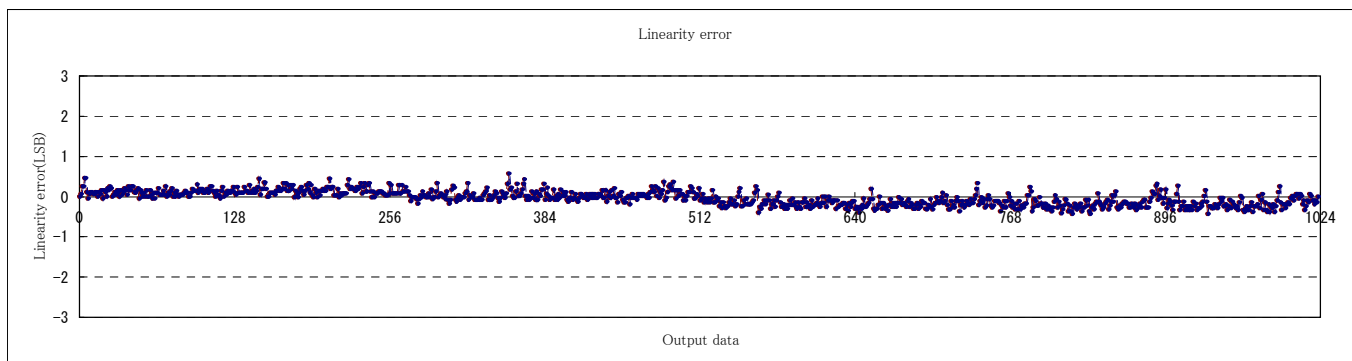
Topr=85 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=2.0V

Xin=5MHz  $\phi$ AD=5MHz Repeat mode

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Type: R8C/33T Group

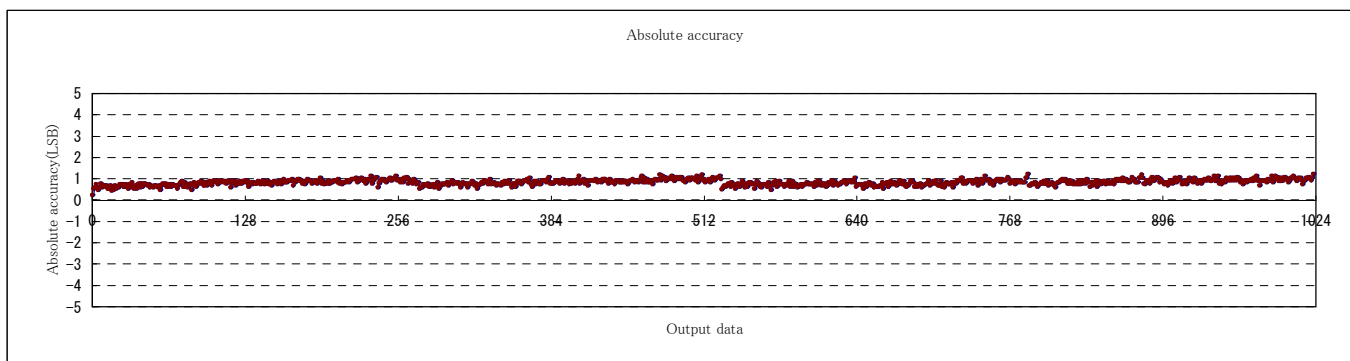
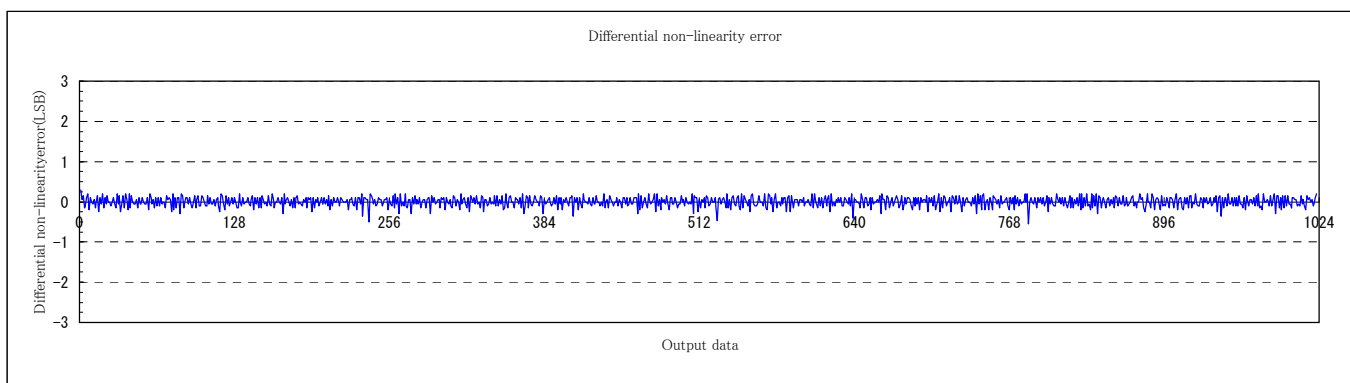
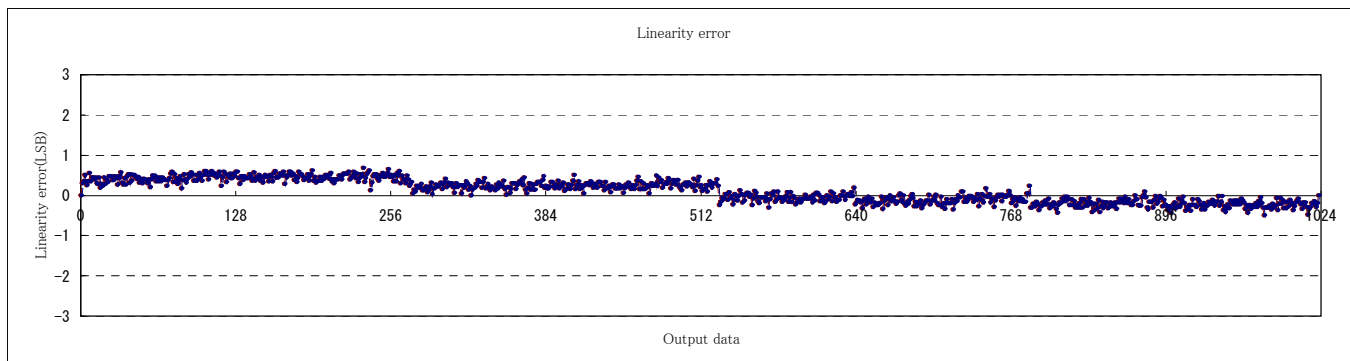
Topr=-40 degrees C

AVcc-Vss: 0.1uF Vref-Vss: 0.1uF ANIN-Vss: 0.1uF

AVcc=Vref=2.0V

Xin=5MHz  $\phi$ AD=5MHz Repeat mode

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