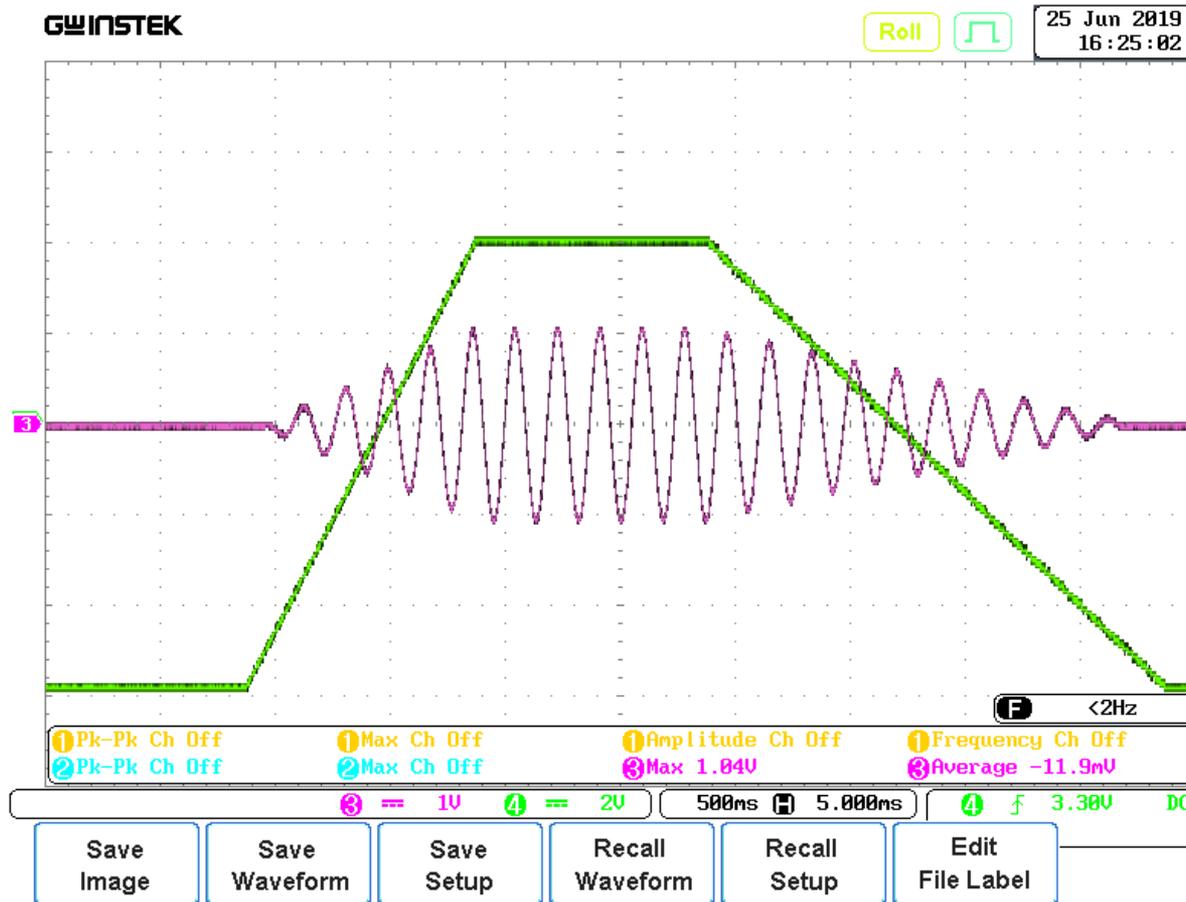


Trap

AM & Demo Seq & VacuumCon

박관형

Amplitude Modulation



- Carrier signal: 500Hz
- Message signal: Green (-6~4V)
- Modulated signal: Pink

RIGOL DG 1022z



- AM mode
- Phase Align
- But No in same time..

59만
원

Function generator + Splitter



5 MHz Dual Channel
 Function/Arbitrary Waveform
 Generator
Model 4052
 MSRP: \$525

B&K precision

125 Msa/s
 70만원
 ~3Vpp



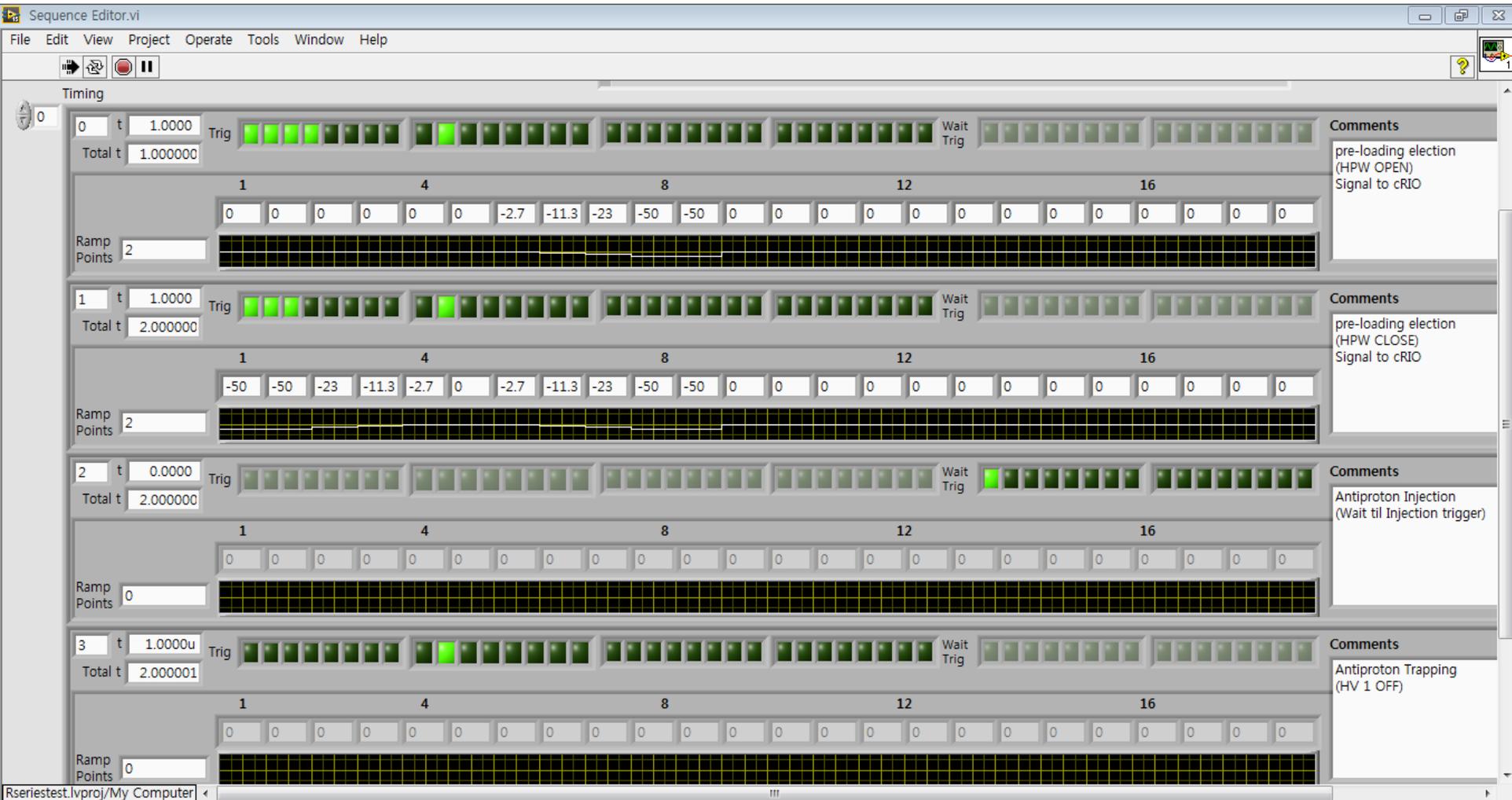
10 MHz Dual Channel
 Function/Arbitrary Waveform
 Generator
Model 4053B
 MSRP: \$659

B&K precision

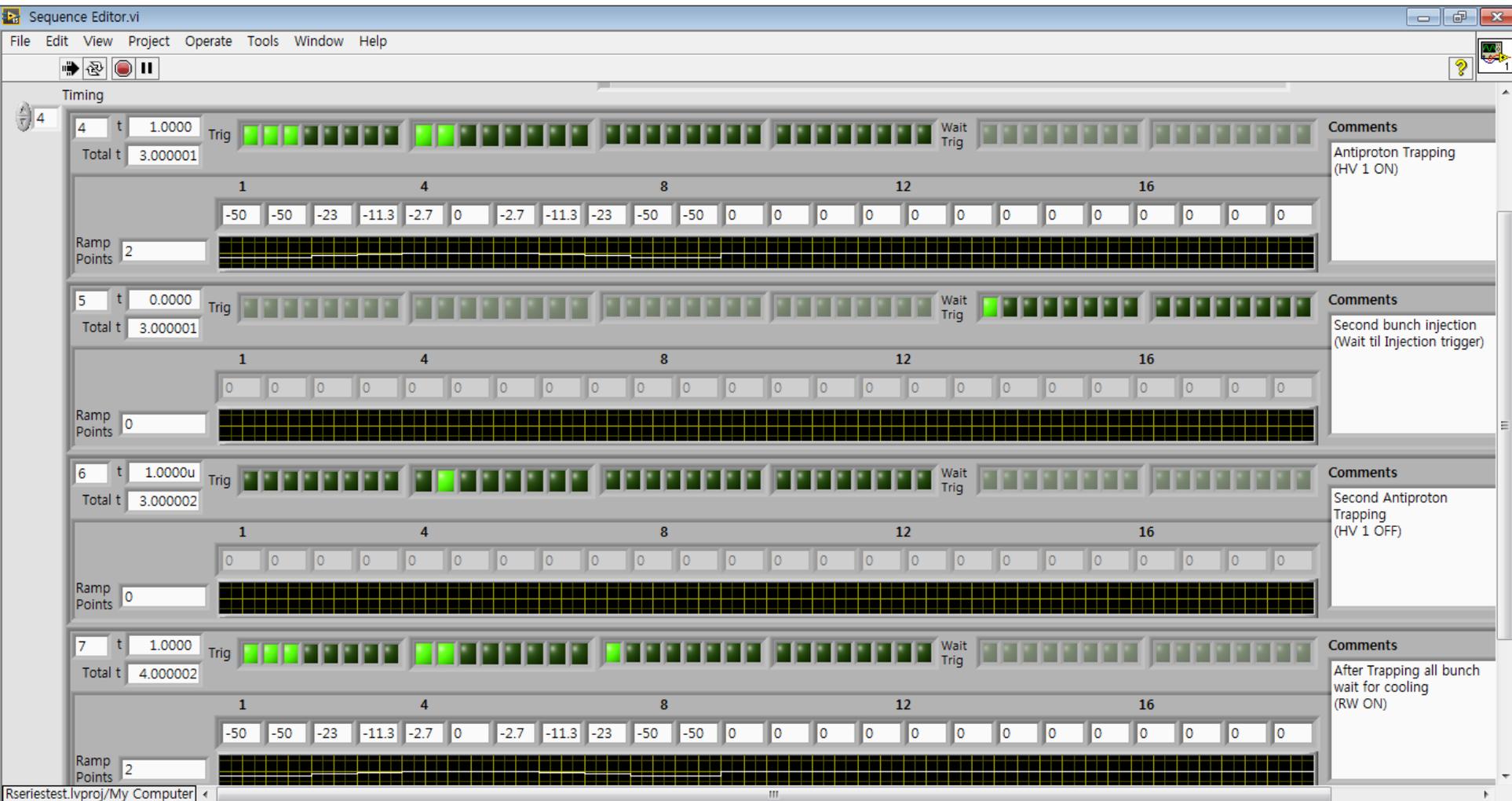
150 Msa/s
 80만원
 ~10Vpp <10 MHz

Item Description	Quantity	Unit Price	Subtotal
 <p>Model: ZSCJ-2-2+ PWR SPLTR CMBD / BNC Category: SPLITTER IN STOCK</p>	2	\$59.95	\$119.90
SUBTOTAL (1): \$119.90 ESTIMATE SHIPPING: \$119.94			26만원

Demo sequence 1



Demo sequence 2



Demo sequence 3

Sequence Editor.vi

File Edit View Project Operate Tools Window Help

Timing

8 t 1.0000 Trig Wait Trig

Total t 5.000002

1 4 8 12 16

0 0 0 0 0 0 -2.7 -11.3 -23 -50 -50 0 0 0 0 0 0 0 0 0 0 0 0

Ramp Points 2

Comments
Electron ejection after cooling

9 t 1.0000 Trig Wait Trig

Total t 6.000002

1 4 8 12 16

-50 -50 -23 -11.3 -2.7 0 -2.7 -11.3 -23 -50 -50 0 0 0 0 0 0 0 0 0 0 0 0

Ramp Points 2

Comments
After electron ejection

10 t 100.0000 Trig Wait Trig

Total t 6.000102

1 4 8 12 16

-50 -50 -23 -11.3 -2.7 0 -2.7 -11.3 -23 -50 -50 0 0 0 0 0 0 0 0 0 0 0 0

Ramp Points 1

Comments
Moving harmonic potential well. t8

11 t 100.0000 Trig Wait Trig

Total t 6.000202

1 4 8 12 16

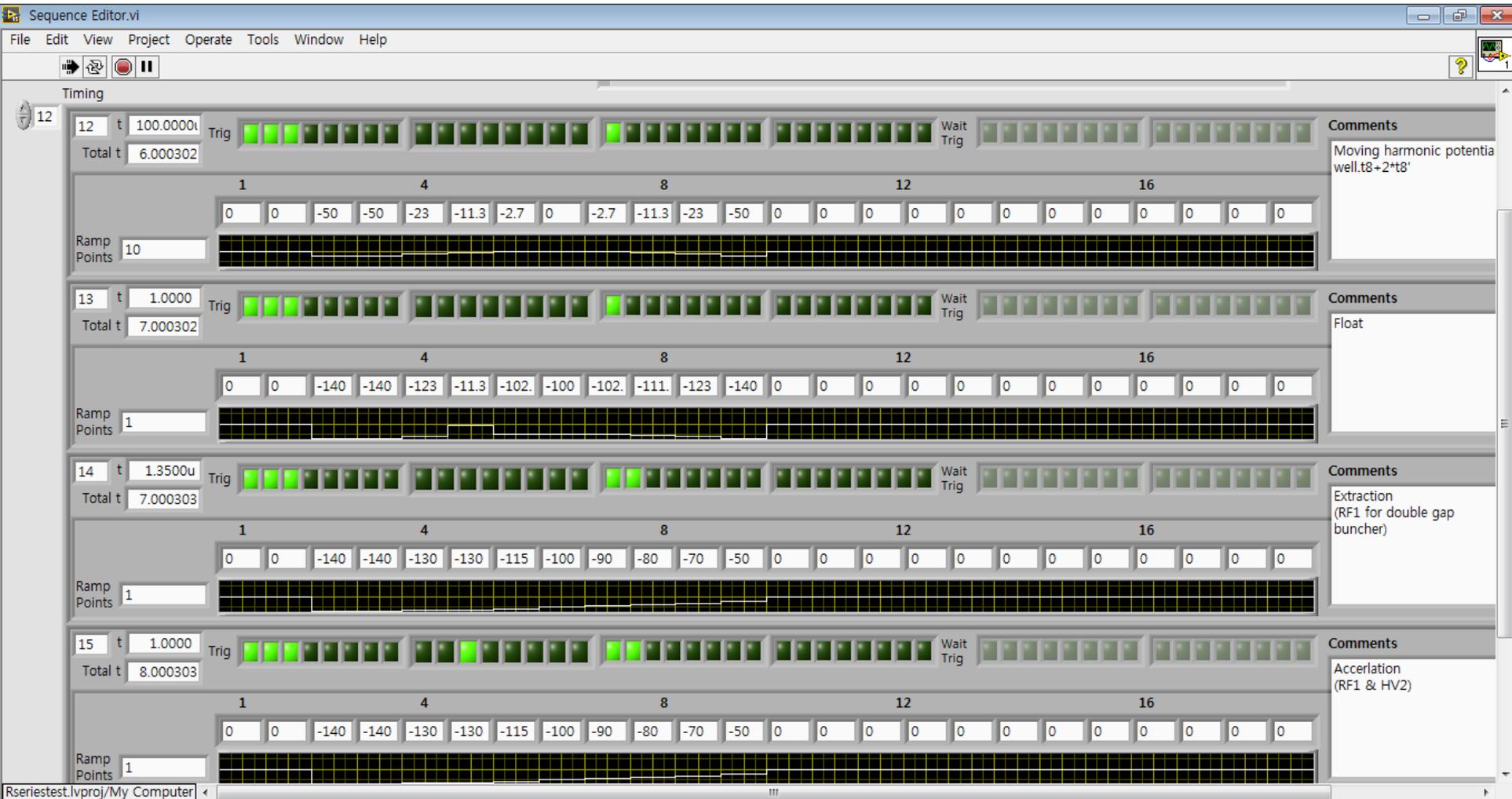
0 -50 -50 -23 -11.3 -2.7 0 -2.7 -11.3 -23 -50 -50 0 0 0 0 0 0 0 0 0 0 0 0

Ramp Points 10

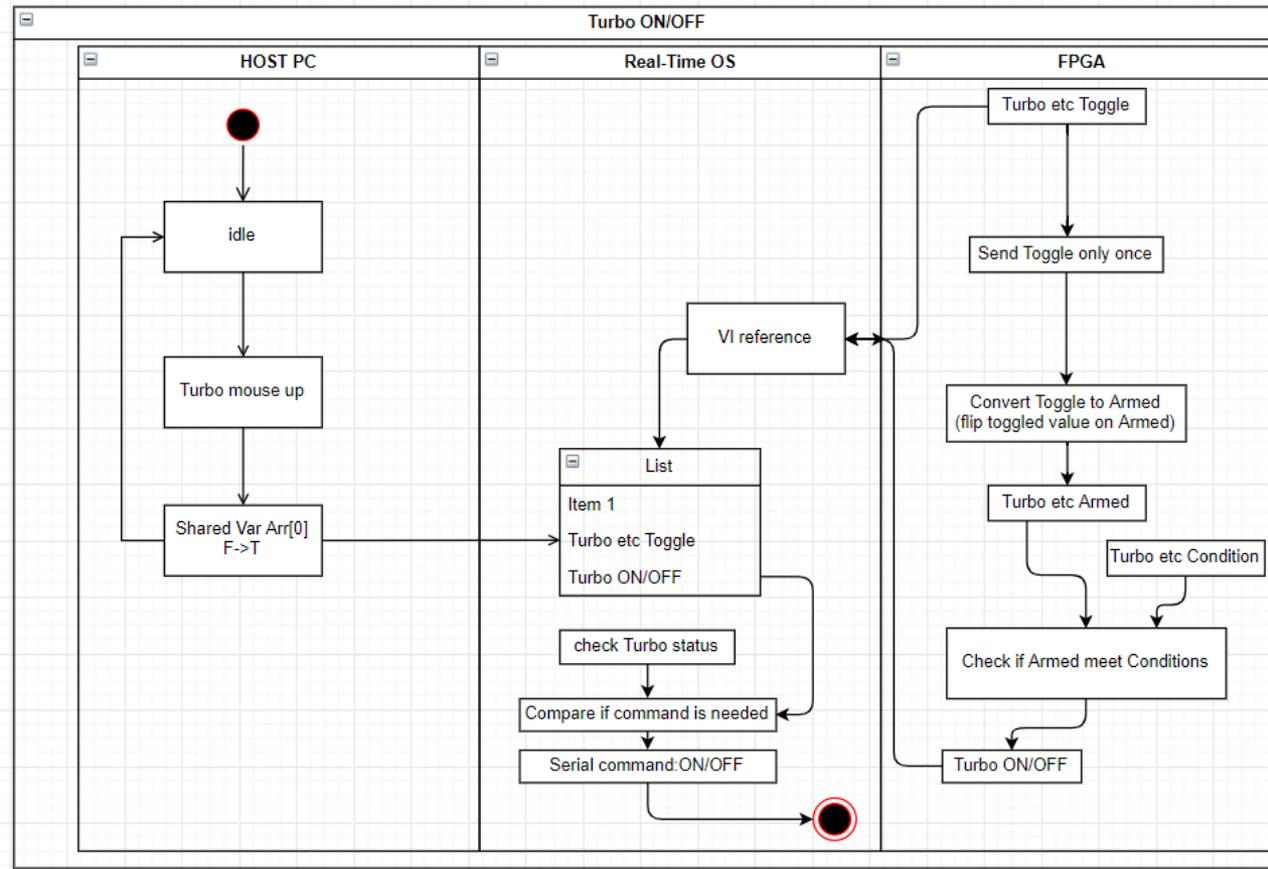
Comments
Moving harmonic potential well. t8+t8'

Rseriesest.lvproj/My Computer

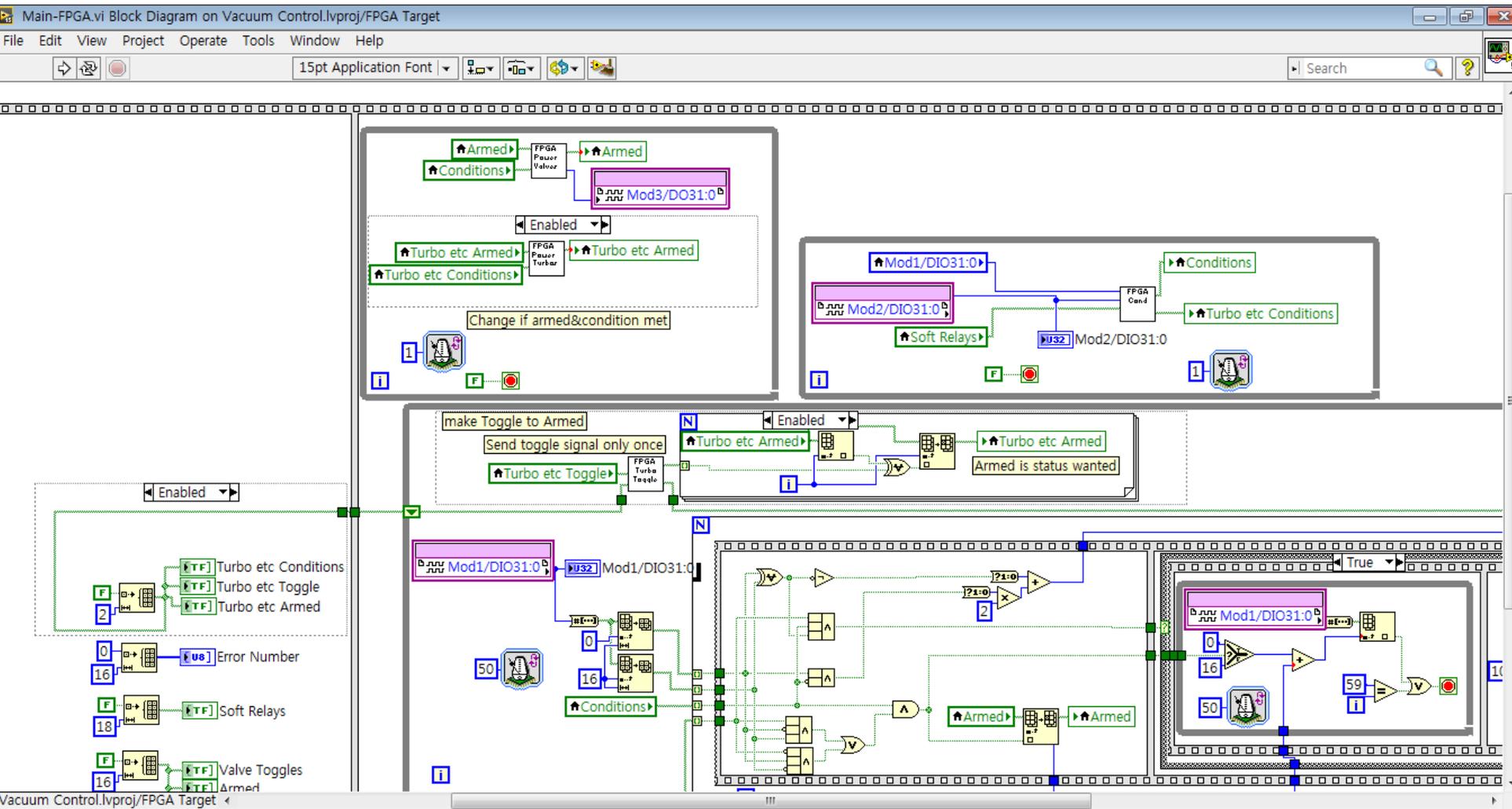
Demo sequence 4



cRIO: Vacuum Control



cRIO: Vacuum Control



RIGOL DG 1022z



59만
원

- 2-ch ~20MHz
- Sample Rate 200 Msa/s
- Amplitude: 1. mV ~ 10 V
- Flatness(Sine): 0.1 dB
- Frequency accuracy 1ppm
- Total Harmonic distortion: 0.075%
- Harmonic distortion (DC-10MHz): -65 dBc