REPLEX

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# DS NNEMP Simulator

- DS NNEMP Simulator is a device that generates high-power electromagnetic waves that meet the requirements of IEC61000-4-36 mesoband testing.
- The shape of the radiated electromagnetic wave is damped sinusoidal(DS) with a maximum E-field strength of more than 12kV/m@10m(far voltage ≥ 120kV).
- The number of damped sinusoidal wave that can be generated is five, and each of the central frequencies exists within the range of 50 MHz to 500 MHz. it is achieved by applying five antennas with different lengths.
- The characteristics of E-field waveform may vary depending on the measurement distance or the measurement environment.
- It's can be used to the testing of radiated immunity of electronic devices and systems against IEMI(intentional electromagnetic interference) or HPEM(high-power electromagnetic).

- Specifications

| Parameter | | Value |
|---|---|---|
| Model Name | | HPEM-DMS-120KV |
| Standard | | IEC61000-4-36 Mesoband Test |
| DS Waveform #1 | E-field Strength | ≥12kV/m@10m |
| | Center Frequency | 75MHz |
| | Damping Factor | 1.5 |
| DS Waveform #2 | E-field Strength | ≥12kV/m@10m |
| | Center Frequency | 125MHz |
| | Damping Factor | 2.5 |
| DS Waveform #3 | E-field Strength | ≥12kV/m@10m |
| | Center Frequency | 155MHz |
| | Damping Factor | 3.1 |
| DS Waveform #4 | E-field Strength | ≥12kV/m@10m |
| | Center Frequency | 405MHz |
| | Damping Factor | 1.9 |

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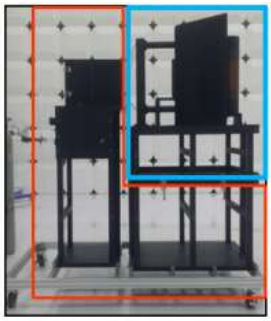
| | | |
|---|---|---|
| DS Waveform #5 | E-field Strength | ≥12kV/m@10m |
| | Center Frequency | 480MHz |
| | Damping Factor | 4.8 |
| Burst Duration | | 1~10sec |
| PRF(Pulse Repetition Frequency) | | 1~10Hz |
| Insulation | | N2 gas |
| Power Rating | | Battery or 100~220VAC |
| Storage/Working Temperature | | 5°C~50°C / 15°C~45°C |
| Dimensions(L×W×H) | | 180cm × 100cm × 235cm |
| Weight | | ~150kg |

■ Configurations

Main Body




Antenna Module
(WF #1, #2, #3)

Antenna Module
(WF #4)

Antenna Module
(WF #5)

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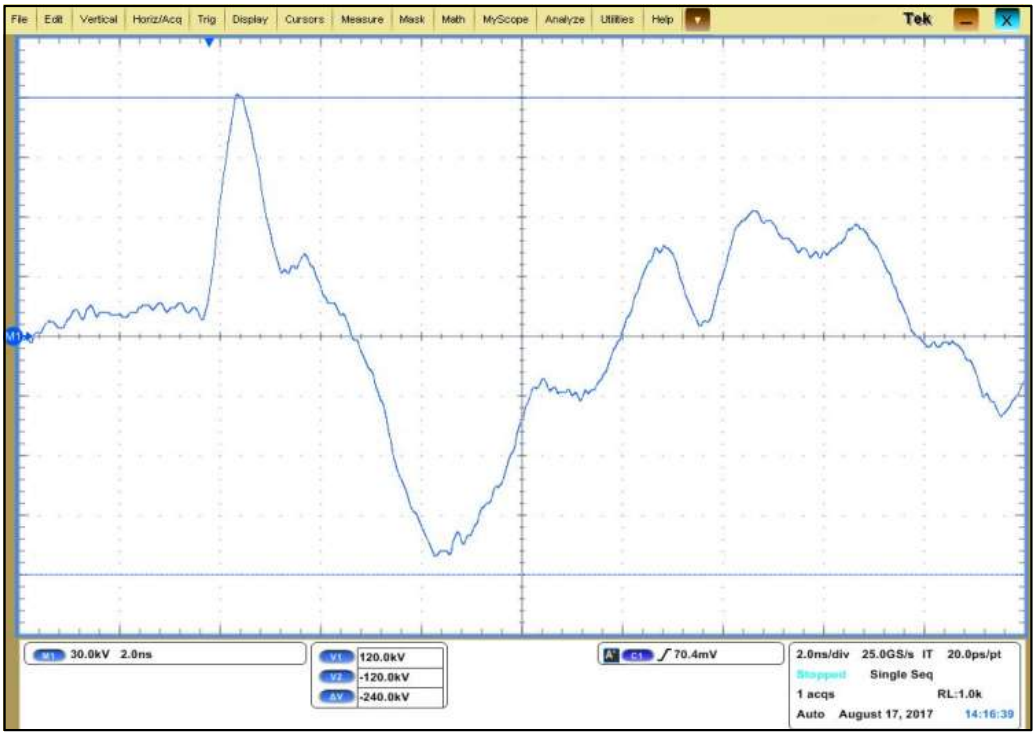
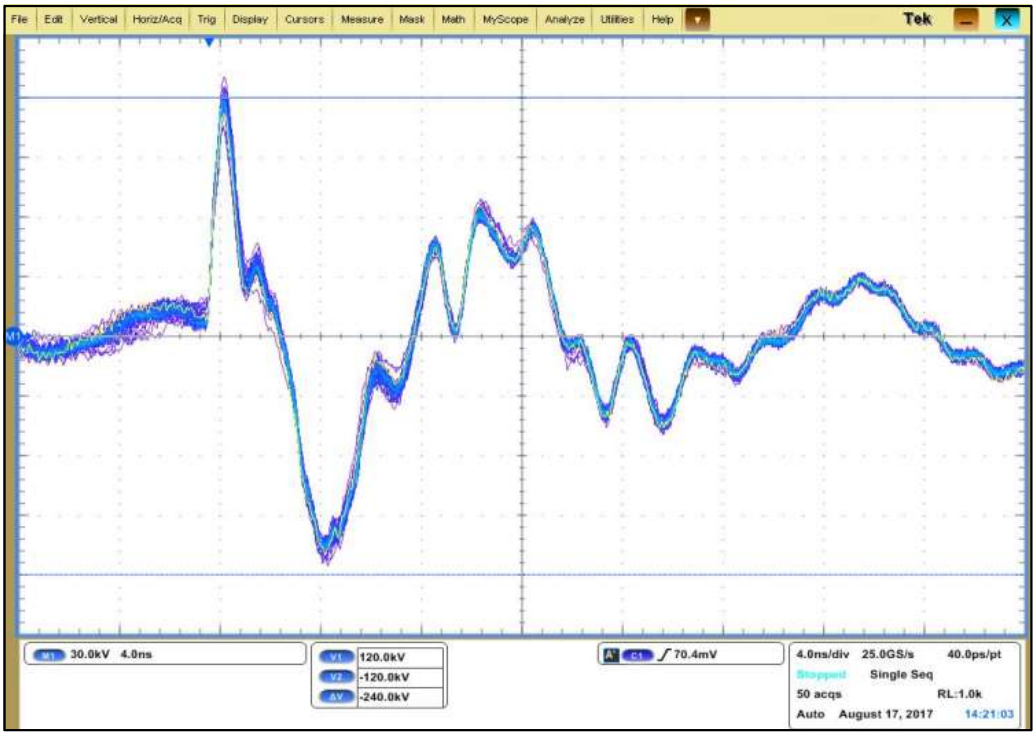
■ Measurement Waveform #1 (1shot)




■ Measurement Waveform #1 (50shot)



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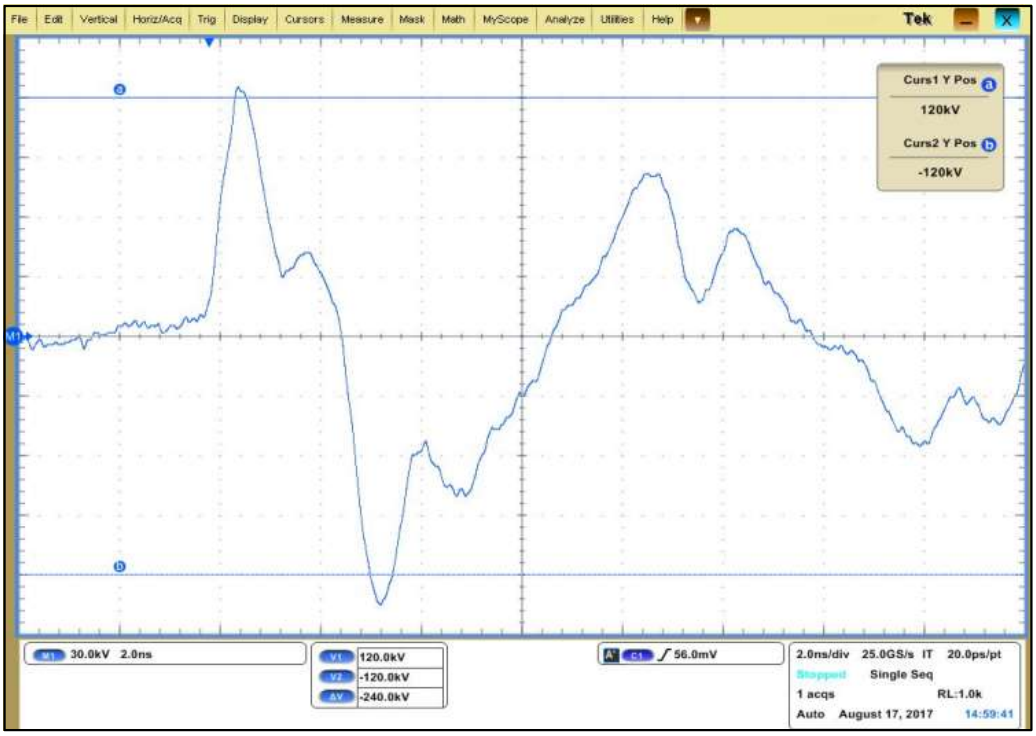
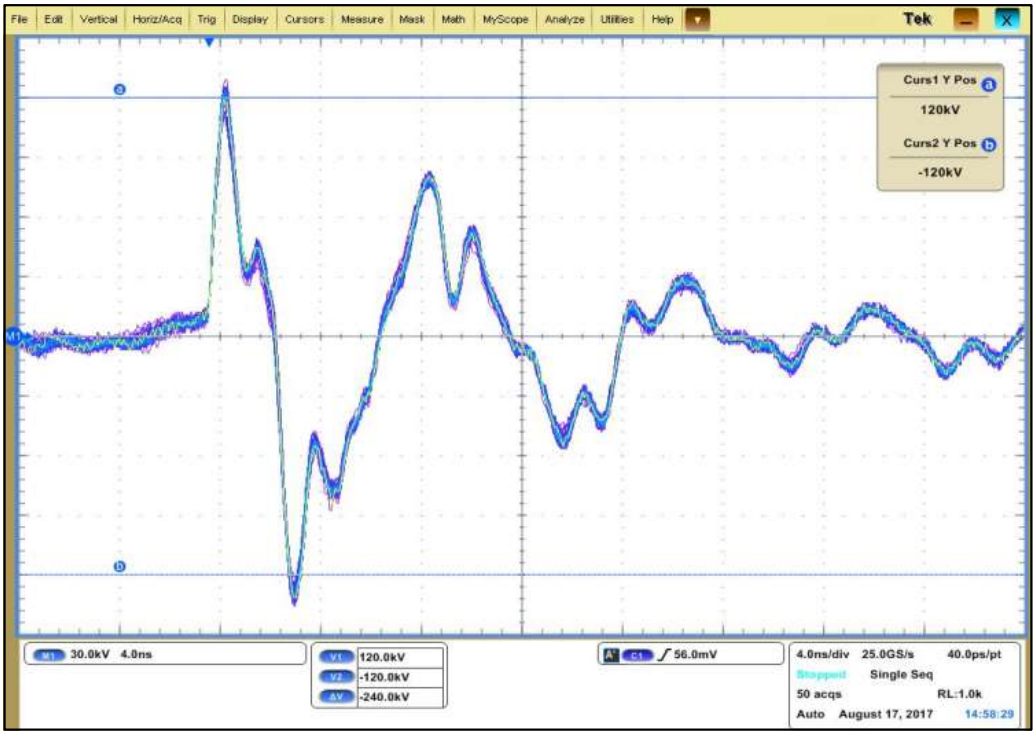
■ Measurement Waveform #2 (1shot)




■ Measurement Waveform #2 (50shot)



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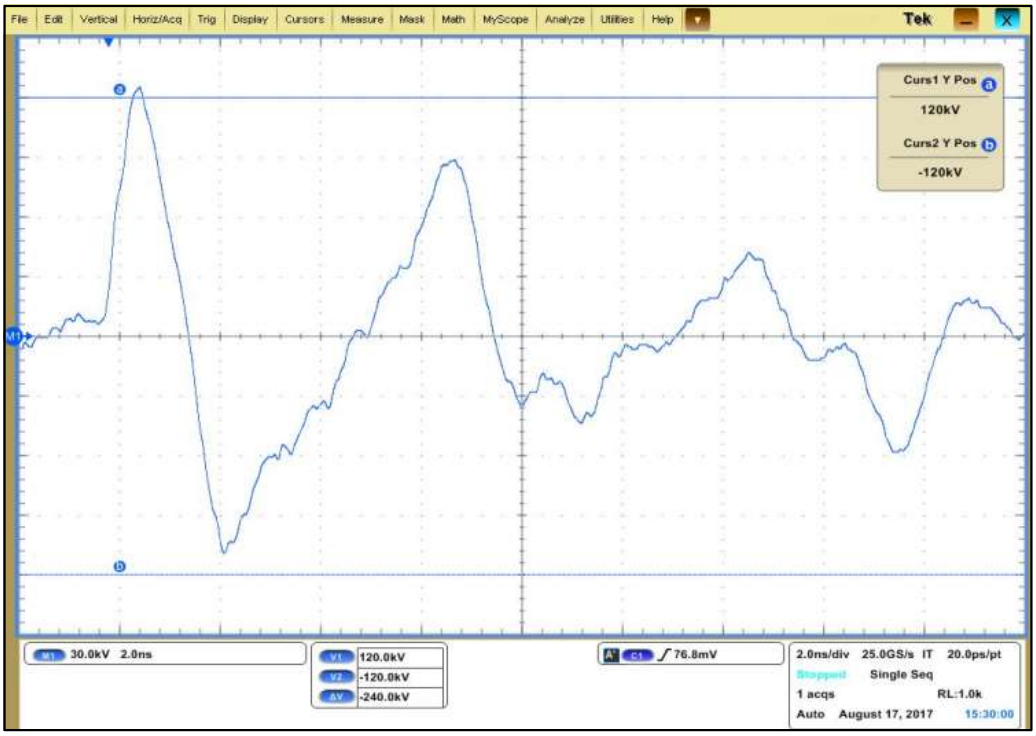
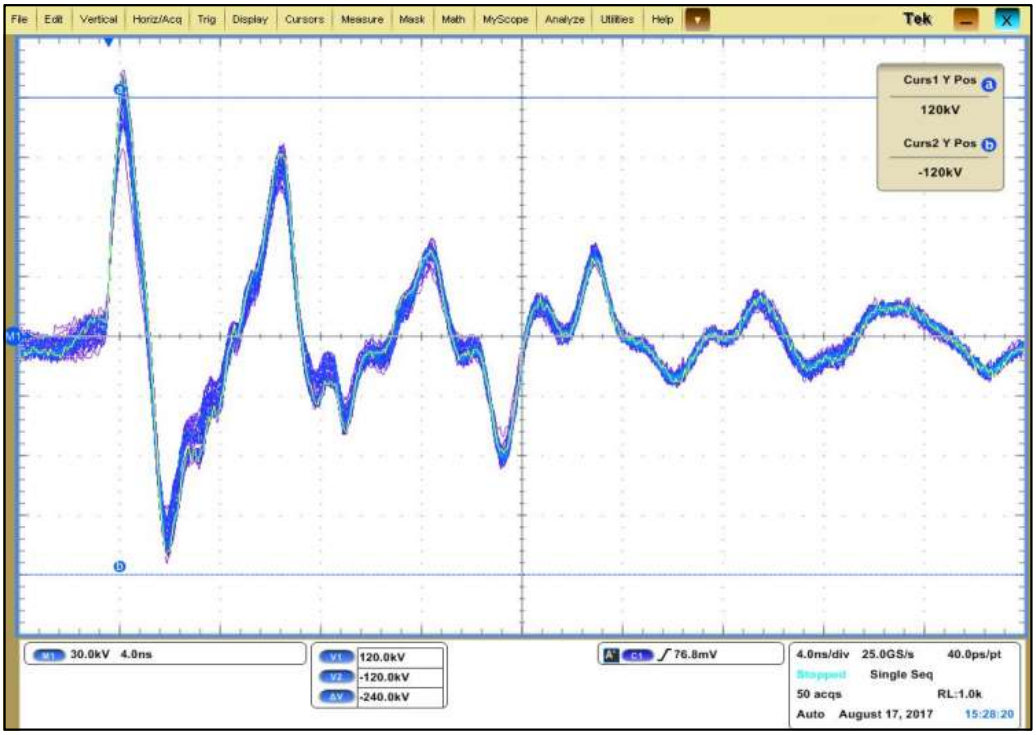
■ Measurement Waveform #3 (1shot)




■ Measurement Waveform #3 (50shot)



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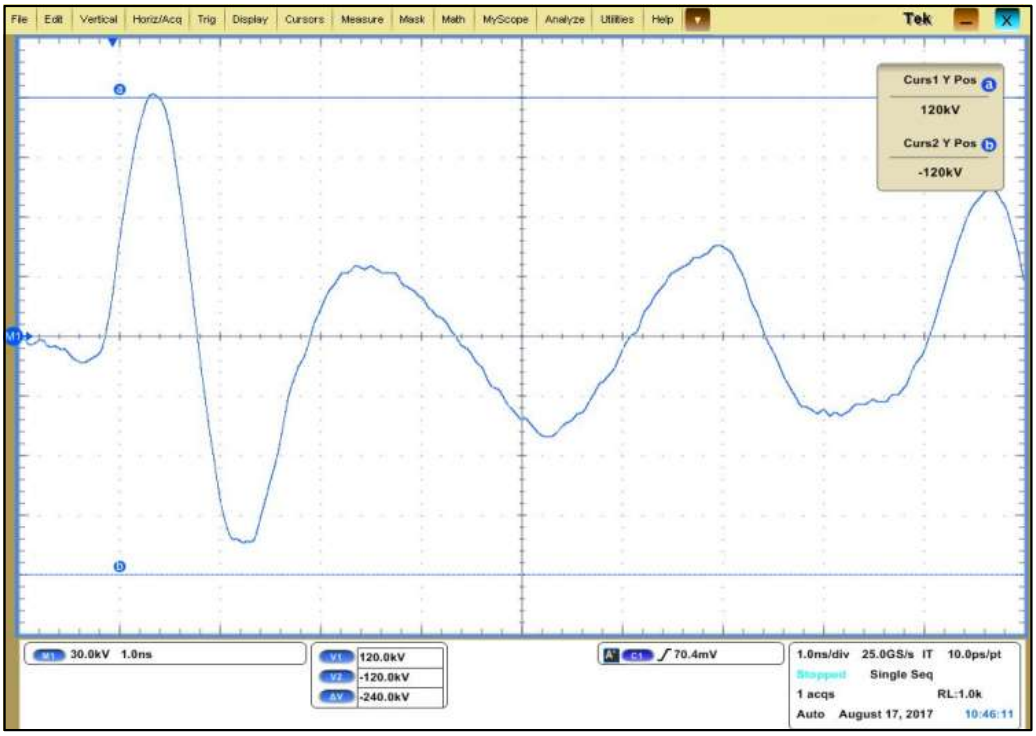
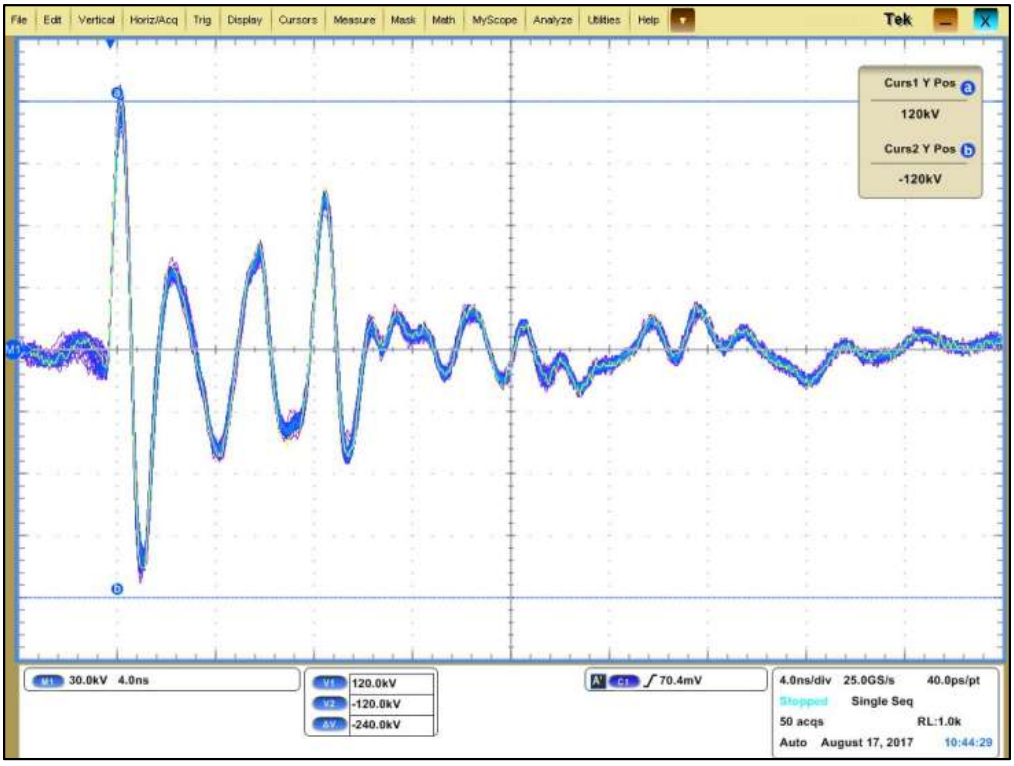
■ Measurement Waveform #4 (1shot)




■ Measurement Waveform #4 (50shot)



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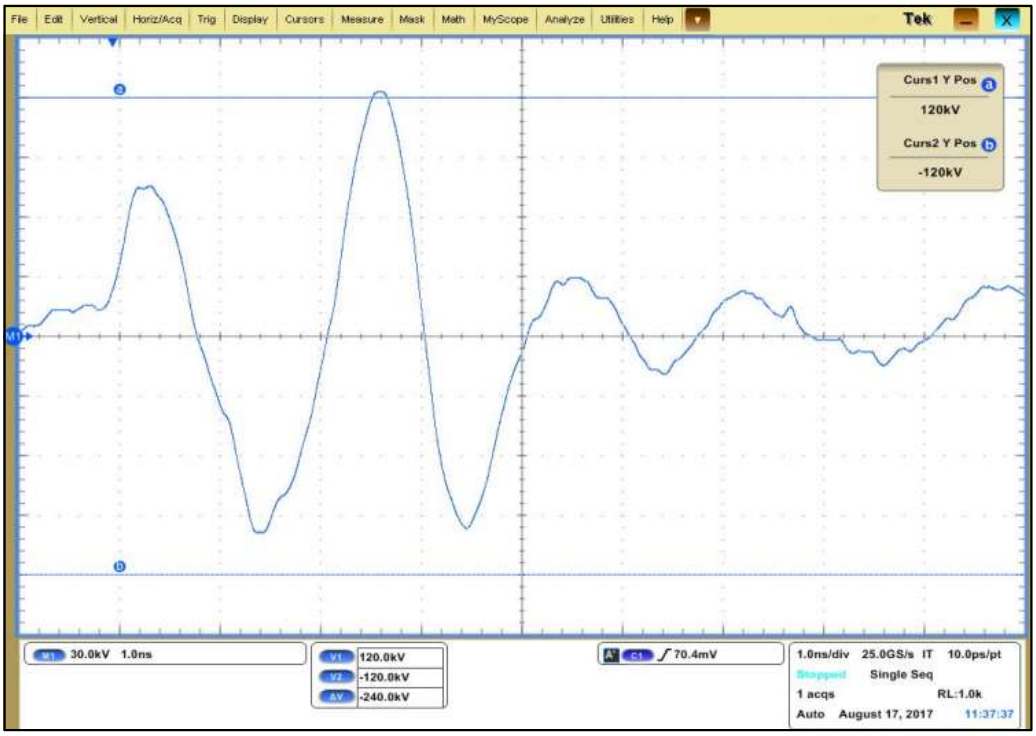
■ Measurement Waveform #5 (1shot)




■ Measurement Waveform #5 (50shot)