**Corresponding working conditions of every supplement**

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| Number | Caption | Working condition |
| 1 | Schematic of classical K-H instability |  |
| 2 | Schematic of oscillatory K-H instability (Surface wave in K-H unstable region) |  |
| 3 | Schematic of parametric instability (Surface wave in parametric unstable region) |  |
| 4 | Typical waveform of K-H harmonic unstable mode(KHH) | 60%Glycerol aqueous solution: , , ,  |
| 5 | Typical waveform of K-H subharmonic unstable mode(KHS) | 60%Glycerol aqueous solution: , , ,  |
| 6 | Typical waveform of the first disordered mode (FDM) | 60%Glycerol aqueous solution: , , ,  |
| 7 | Typical waveform of the second disordered mode (SDM) | Deionized water: , , ,  |
| 8 | Typical waveform of a travelling Faraday wave | Deionized water: , , ,  |
| 9 | Typical waveform of a travelling Faraday wave by superposition of POMs | Deionized water: , , ,  |