Xboxes Update

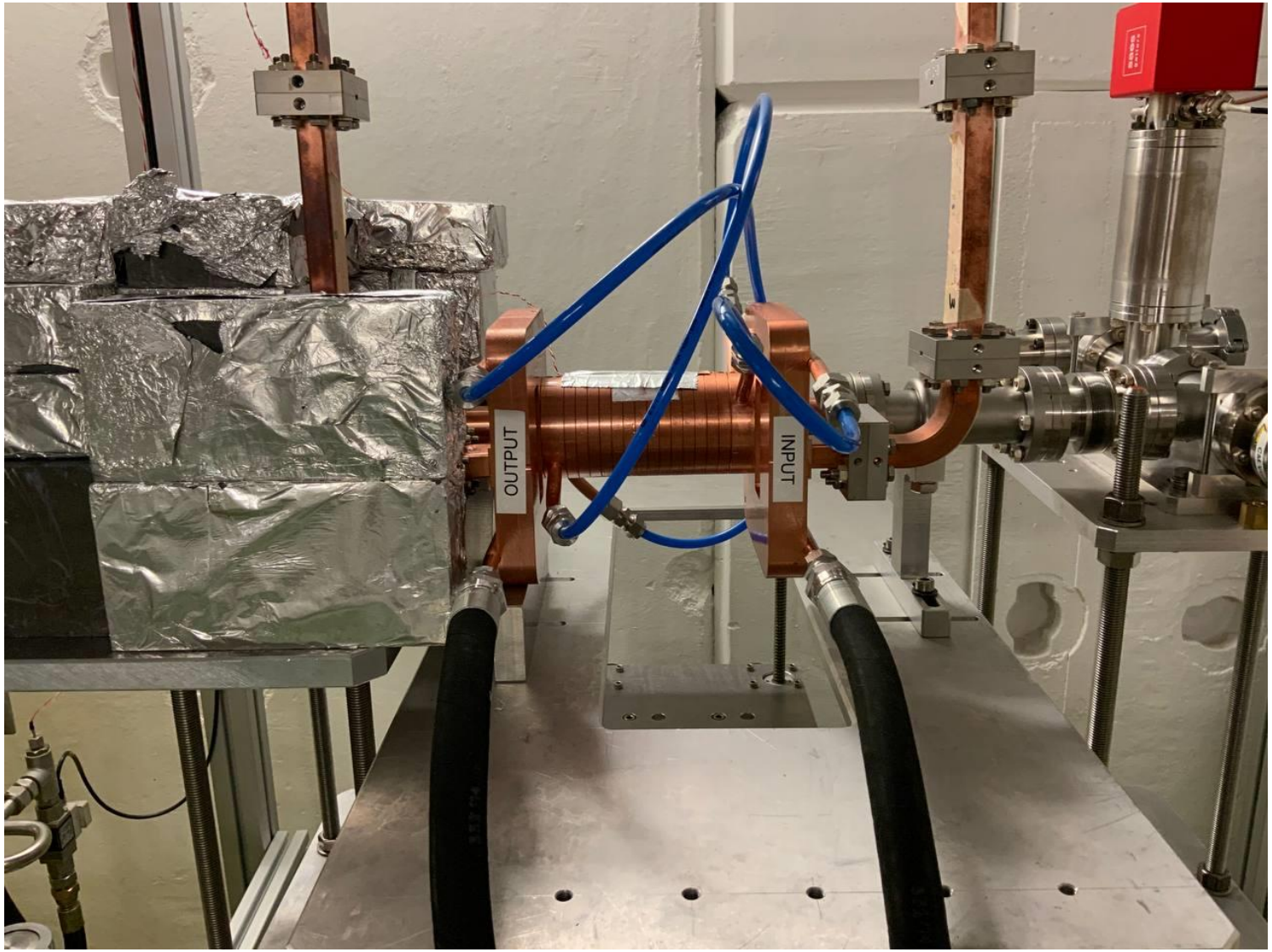
04/08/2021

Summary

- XBOX1:
- XBOX2:
- XBOX3AB: SARI deflector and RF window running.
- XBox3 Operation:
  - CP length changed to 100 ns
  - Incident to PC changed back to 1.9 us
  - Rep. rate changed to 150Hz per line
  - Line 1 (SARI): Time/BDR Conditioning
  - Line 2 (Window): Supervised

- XBOX1:
- XBOX2:
- XBOX3AB: SARI deflector and RF window running.
- XBox3 Operation:
  - CP length at 100 ns
  - Incident to PC at =1.9 us
  - Rep. rate changed to 150Hz per line
  - Line 1 (SARI): Time/BDR Conditioning
  - Line 2 (Window): Supervised

SARI Structure



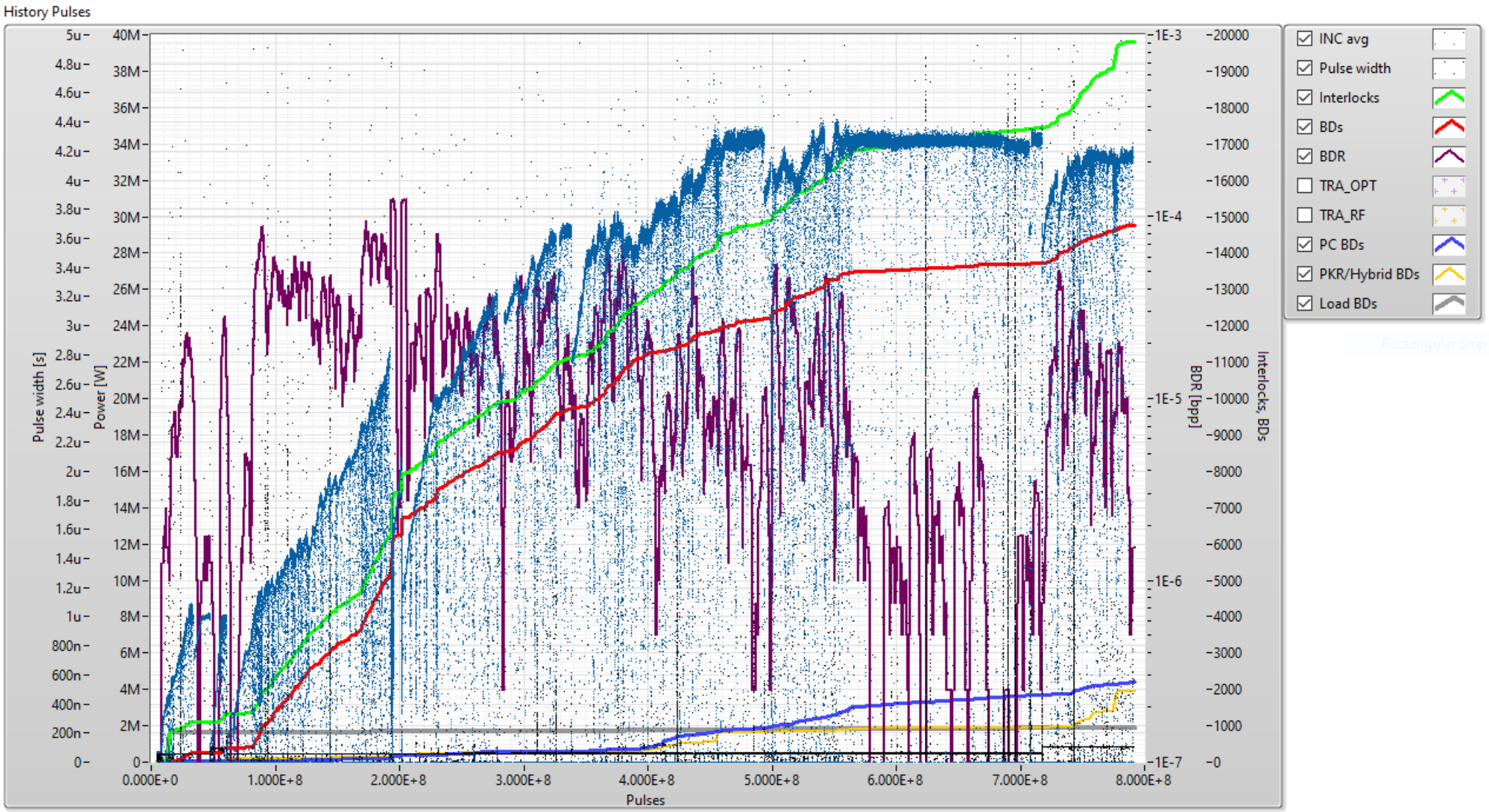
Operating frequency	**11.9942 GHz@26deg**

STATUS: Time/BDR conditioning

SARI Structure

Parameters:

- 1.9us klystron pulse
- 100 ns compressed pulse
- 150Hz rep rate per line
- **Current Power: 35 MW (peak)**



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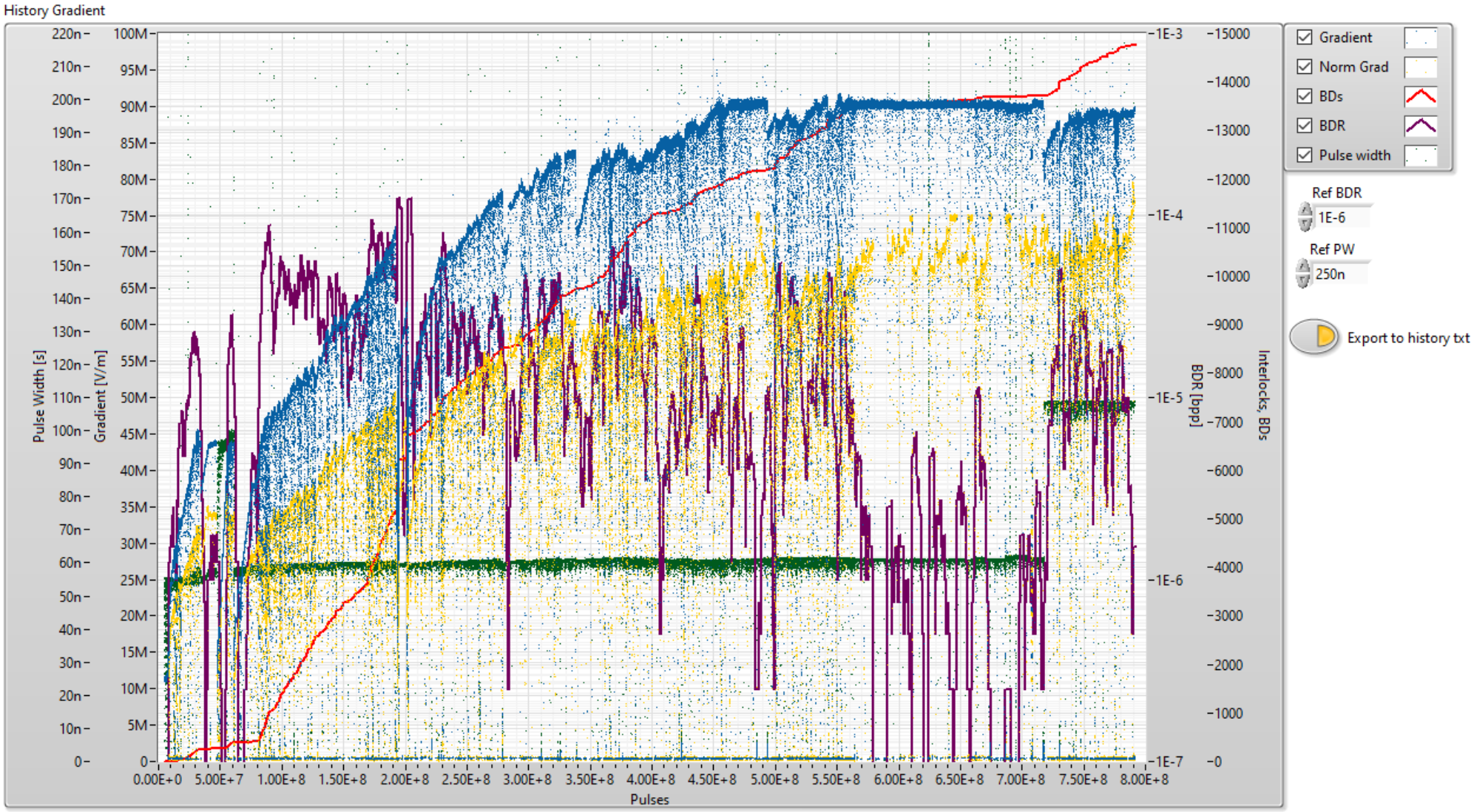
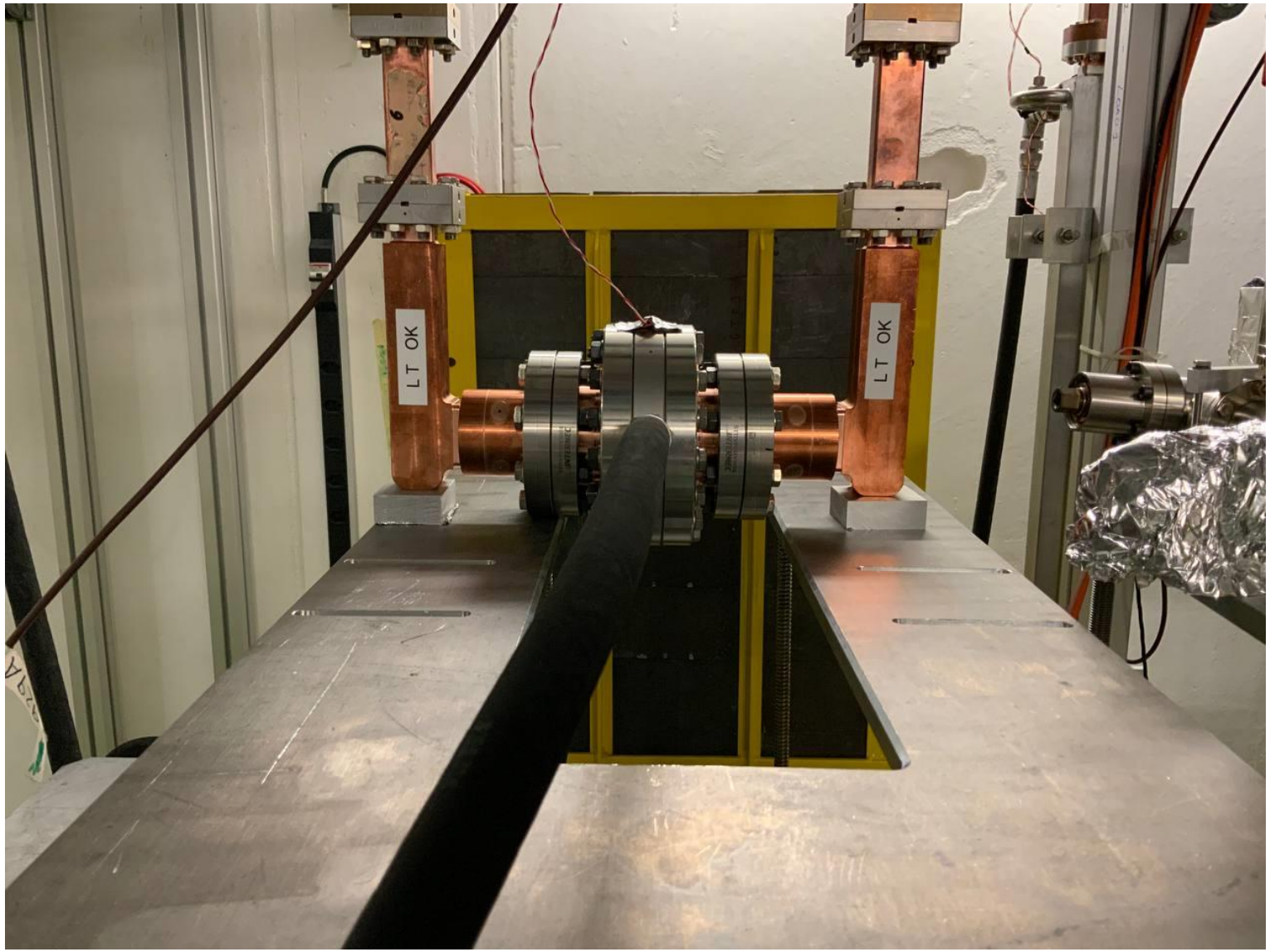


Structure Operation

SARI Structure

Step	Drive length	Pulse length	MAX Power	Comment
1	NO	50 ns	9 MW	No PC
2	NO	100 ns	9 MW	No PC (Mainly 200Hz per line)
3	1.2 us	50 ns	30 MW	Compressed Pulse (Mainly 200Hz per line)
4	1.9 us	50 ns	35 MW	Compressed Pulse (Rep Rate reduced 150Hz per line – PC high vacuum)
5	2.2 us	50 ns	35.5 MW	
6	1.9 us	50 ns	35 MW	Flat run
7	1.9 us	100 ns		

RF Window



STATUS: Supervised ramp up

RF Window

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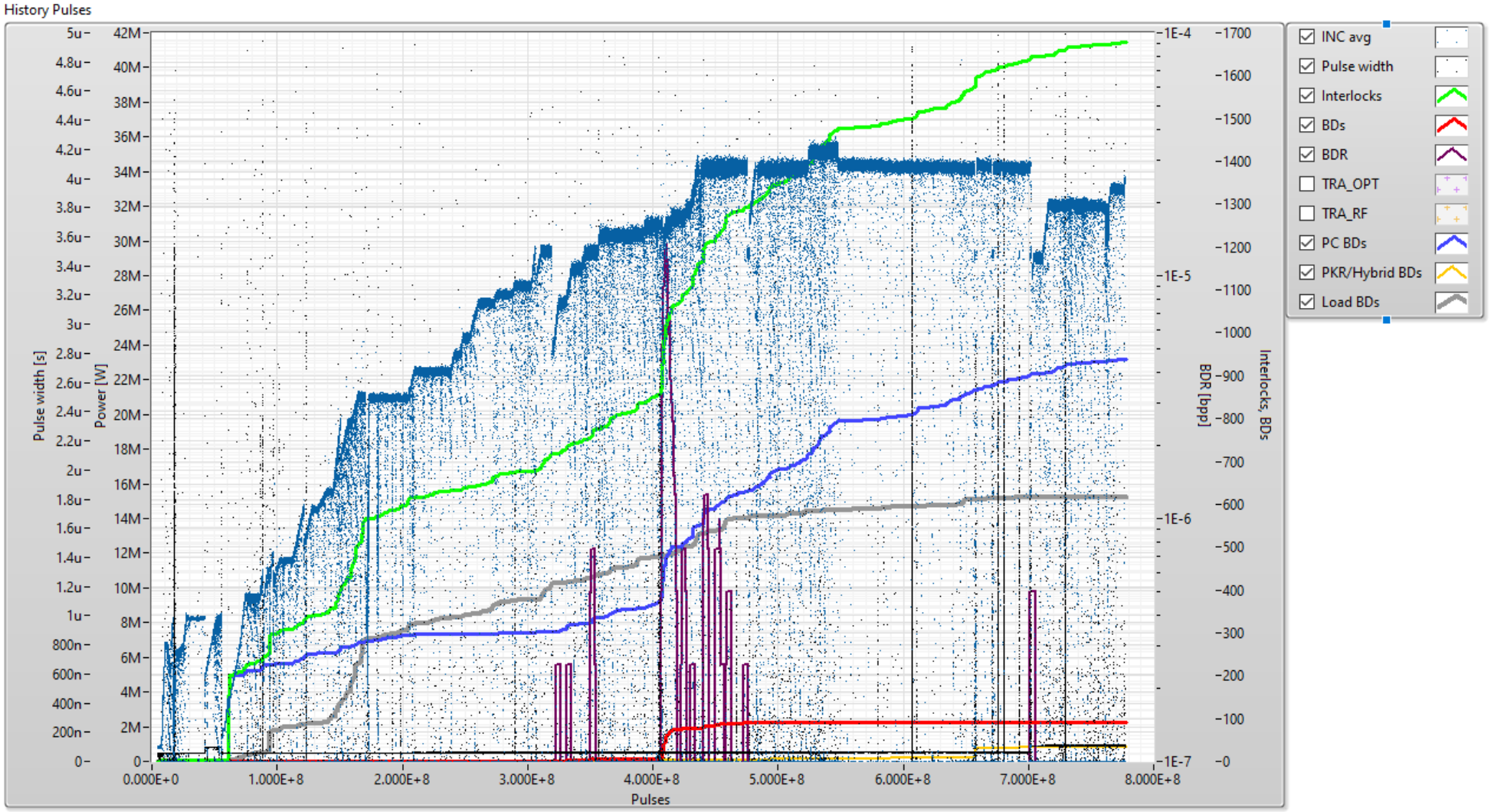

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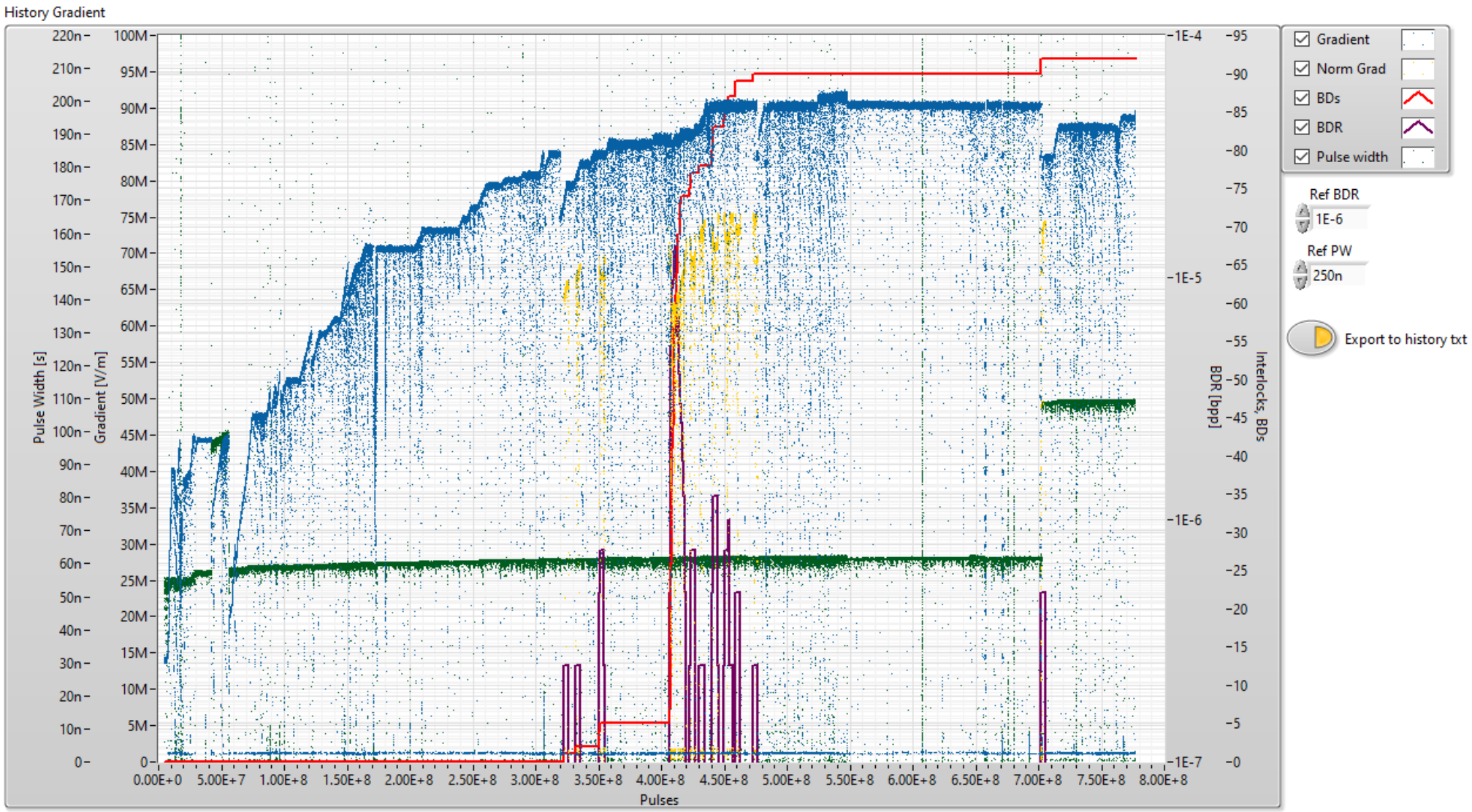

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