

2023/01/04.

\* ST Scan

\* Started with Seed Plasma.

\*  $H_2 + Ar$  Plasma -- RMF

# Time

Seed Plasma -  $PF = 2.825$ ,  $PR = 175 mV$

\* RMF started with Magna Power = 180A,

Nozzle = 100A.

B.B =

Aperture of CC Midpoint = 3

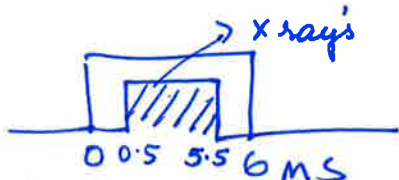
# 01 - CC Radial scan

# 02 - CC Nozzle

Max P.H = 18490

# 03 - CC Midpoint Ap 3. -  $2 \mu s = \frac{LE \text{ Peak height}}{(1.56) \text{ time}} = \frac{11,852.5}{1.56}$

LE cut off channel  $\sim 31$  (not sure)



04 - CC Radial

05 - CC Nozzle

Max P.H =  $\frac{81996}{1.3}$

# 06 - CC Midpoint Ap 3 -  $5.6 \mu s \cdot (451 \mu s) = 63073.8$   
Ch # 48

07 - CC Radial

# 08 - CC Nozzle

Max P.H =  $\frac{2529}{1.34} = 7,438$

channel = 51

09 - CC Midpoint -  $9.6 \mu s$

②

For 1  $\mu$ s

10 # cc Radial

11 # cc Nozzle

12 # cc Midpoint — 1  $\mu$ s LEP · H =  $\frac{1,59,483}{1.01} = 157,903$

acc. time 1.01

Ch # 60

Max P · H  
30  
25  
20  
15k  
10k  
5k

1  $\mu$ s - 157,903

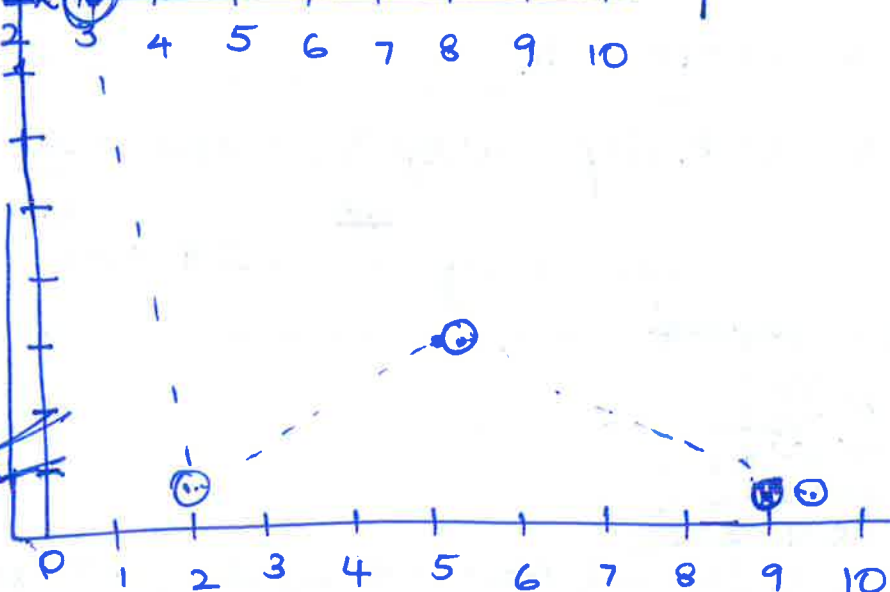
2  $\mu$ s 11,852.5

5.6  $\mu$ s 63,073

9.6 7438

L · E · Peak Height

140  
120  
100  
80  
60  
40  
20  
50k



Repeated all previous data. Peaking time

13 - cc Radial Scan

14 - cc Nozzle

15 1  $\mu$ s - Midpoint =  $\frac{2,16,173}{1.30} = 166,286$  Channel # 62

16 - Radial

17 - Nozzle

18 2  $\mu$ s -

=  $\frac{16977}{1.93} = 8796.3$  Ch # 26

$$\frac{LE \cdot PH}{Acc \cdot Time} = \frac{Low Energy}{Peak Height}$$

19 - CC Radial Scan

20 - CC NOzzle

21 - CC Midpoint  $5.6 \mu s$  Ap 3 =  $\frac{7185 \cdot 7325}{1.57} = 4665.6$

22 - CC Radial Scan

23 - CC NOzzle

24 - CC Midpoint -  $9.6 \mu s$  =  $\frac{1864}{1.01} =$  Ch #7

—— RMF was turned off.

For various peaking time we need  $\Phi$  to find the resolution for various SDD's.

25 - CC Radial Scan

26 - CC NOzzle

27 - CC Midpoint -  $9.6 \mu s$  -

28 - CC Radial Scan

29 - CC NOzzle

30 - CC Midpoint -  $5.6 \mu s$

31 - CC Radial Scan

32 - CC NOzzle

33 - CC Midpoint -  $2 \mu s$  -

34 - CC Radial Scan

35 - CC NOzzle

36 - CC Midpoint -  $1 \mu s$

RMF turned ON again .

- The ST was kept ~~at~~ 0.5%.

37 - CC Radial Scan

38 - CC NO221c

39 - CC Midpoint -  $1\mu s$  .

40 - CC Radial Scan

41 - CC NO221c

42 - CC Midpoint -  $2\mu s$  .

43 - CC Radial Scan

44 - CC NO221c

45 - CC Midpoint -  $5.6\mu s$  .

46 - CC Radial Scan

47 - CC NO221c .

48 - CC Midpoint -  $9.6\mu s$  .