

PV1 = C₃H₃I, 0.5% in He.

QMS: 2.1 @ 4.7-9.

340

0.35 ac 5308(31) 1660 11.60 168 24
ac 5309(31) 166 24

80

25 ac 5310(25) 91
ac 5311(25) 65 mJ 91
ac 5312(25) 431 91
777

60 mJ 193 nm
A-T: 1819
C-A-90

C₃H₃ 431 = 55.5-
777 } go.
C₃H₃ 777 (72)

PV2 = C₄H₈ Methylpropene. 530 bpe

70 cell
330

ac 5313(15) 900 9k 94
ac 5314(25) 900 16k 93
ac 5315(25) 15k Laser off. but ON-OK. 94
ac 5316(25) 16k Laser off? C-A-93 94
ac 5317(25) To Much off sig. C-A-96 94
ac 5318(25) C-A-85 94
ac 5319(25) 15k C-A-90 94
ac 5320(10) 1k C-A-90 92
ac 5321(25) Huge Laser off 79

m/280 and 78
at 8/1/2023

C₃H₃ - ~~MA~~ C₃H₃
ac 5313
ac 5314 - ~~ac 5314~~

C₂H₂ + C₄H₈ → C₇H₁₀ + H₂ 79
39 56 94 1

C₃H₃ + C₄H₈ → C₇H₉ + H₂
39 56 93 2

C₃H₃ + C₄H₈ → C₆H₈ + CH₃
39 56 80 15

C₃H₃ + C₄H₈ → C₆H₇ + CH₄
79 16.

80 cell

33 ac 5322(15) 60K No signal 91
ac 5323(25) 1.6k 16k 94

340V

0.35 ac 5324(3) 16k 16k 1770 10.89 12 24

07/17/2023

QMS: 2.1 @ 4.7-9 dis 10 mV DC-225kV PMT 1.35.
PVI: evac, C₃H₃I 0.5% in He, 1 atm, A-T: 1819.

0.35 ac 5325(3) 14k 45k 50 mJ 1764/1305/174 24
ac 5326(3) 12k 13k 40 mJ 1766/1214/146 24

80d

B3°

 $PV2 = -400V, C_2H_2, 550\text{ Torr}, C = A - 90$

ac5327(35) 1k 14k	40mJ	94
ac5328(35)	50mJ	94
ac5329(35) 3k 26k	65mJ	94
ac5330(35)	65mJ	94

2.1 → 1.2.
Plus Calibration

34d

0.75°

f2@5-10

ac5331(4) 1k 14k	12k 13.5	2.54	24
ac5332(4) 1k 15k	1.2@5.3-10	16.15	14
ac5333(3) 10k 14k	1.2@5.3-8		14
ac5334(3) 10k 15k	1.2@5.3-9		24

 $PV2 = -400V, 550\text{ Torr}, C_2H_2,$

C = A - 90.

80d

33°

ac5335(25) 18k 10k	35mJ	94
ac5336(25)	50mJ	94
ac5337(25)	35mJ	93
ac5338(25)	35mJ	92
ac5339(10)	laser OFF	79

33°

No signal.

ac5341(25)		91
ac5342(25)	A = A - 87	92
ac5343(25) 1.4k	C = A - 93	92
ac5344(25)	No signal C = A - 96	94
ac5345(25)	C = A - 88	94

34d

1.75°

ac5346(25) 15k 17k	+1879	1771, 133, 16	24
ac5347(3) 14k 18k	1880		24
ac5348(3) 10k 15k	1877		24
ac5349(3) 13k 17k	1879 + 181		24
ac5350(3) 10k 15k	1879 + 177		24

7/18/2023

22 Torr C_2H_2 in SS PSI He

New Cylinder Prepared

Old One in use.

New QUS Calibration

f2@5-3-9

1atm

60_{Ar} PV1 = -400V, C₂H₂ f 0.5% in He, A.T. +1849
 60_{Ar} PV2 = -400V, Methylpropene, C₂H₄ 550 Torr C.A. -90
 30_{Ar} 193nm, 38mJ A+179

34eV

0.75 ac5351(5) NK 14k 1752 13.12 1.61 24
 ac5352(5) 105 128k 1748 12.16 1.65 24
 ac5353(5) 105 R.1 24

80eV

33 ac5354(50) 4.2k 24k
 38 ac5355(50) 443 20k
 43 ac5356(50) -218 19k
 48 ac5357(50) 1.6k 20k
 53 ac5358(50) -6 18k

use ac5354
 so norm.

33°

38°

43°

48°

53°

58eV

0.75

New Cytometer

ac5359(3) 12k 14k 1735 11.24 2.1 94
 ac5360(3) 125k 14k 94

ac5361(3) 13.4k 149 1757 1067 189 24
 ac5362(3) 14k 15k 24
 ac5363(3) 13.6 15.4k 24

80eV

33 ac5364(50) 3.5k 23k
 38 ac5365(50) 5k 33k
 43 ac5366(50) 1.6k 51k
 48 ac5367(50) -1.6k 51k
 53 ac5368(50) 3.6k 36k
 58 ac5369(50) 7.2k 37k
 63 ac5370(50) 129 35k
 68 ac5371(50) 136 34k
 73 ac5372(50) 1.3k 35k
 78 ac5373(50) 1.3k 42k
 83 ac5374(50) 4k 39k

34eV

105 ac5375(3) 17k 20k 1705 9.49 2.5 24

Too much chemical accumulated on cold head. When shift to
 night mode the chemical release trigger the p. main chamber
 pneumatic (cold head off) valve. Because of the chemical (C₆H₆ / C₃H₈I)?

11:20 pm 1.5e-6 12:00 pm 2.8e-7

11:30 pm 1.7e-6

11:40 1.8e-6

11:50 1.1e-6

Both primary and secondary line are
 pumped

7/19/2023
 RMS = 1.2 @ 5.3-9 PK = -22.5 kV PWT = 1.5 kV dis. 16 mV
 PV1 = -400V, A = T + 1879, C₄H₈I 0.5% ratio, 1 atm
 PV2 = -400V, C₄H₈ methyl propene, C = A - 90

35 mJ @ 190 nm A + 179

34 eV
 0.25 ac5376(3) 15k 17L 1757 16.50 2.15 24
 ac5377(3) 16k 18k 1733 11.26 2.52 24
 ac5378(3) 17k 19k 24

80 eV
 33 ac5379(50) 32k 51k 93 24
 38 ac5380(50) 1.7k 49k 93 24
 43 ac5381(50) 2 5 93 24
 48 ac5382(50) 13k 49k 93 24
 53 ac5383(50) 1.2k 46k 93 24
 28 ac5384(50) -109 53k 93 24
 33 ac5385(50) 1k 51k 93 24
 38 ac5386(50) 38k 53k 93
 43 ac5387(50) 2k 50k 93
 48 ac5388(50) 25 546 47 93
 28 ac5389(50) 2.8k 91k 93
 33 ac5390(50) 1.7k 53k 93

New Cylinder

54 eV
 0.25 ac5391(50) 20k 25k 1678 8.6 2.18 24
 ac5392(50) 20k 15k 1679 8.25 1.57 24
 ac5393(50) 19k 22k 1689 8.29 2.41 24
 33 ac5394(50) 249 53k 93
 38 ac5395(50) 1.91k 511k 93
 43 ac5396(50) 1.3k 43k 93
 48 ac5397(50) 225 391k 93
 28 ac5398(50) 51k 49k 93
 33 ac5399(50) 2.5k 53k 93
 33 ac5400(50) 6.6k 47k 93
 34 eV
 175 ac5401(3) 16k 18k 1691 7.92 2.37 24

7/20/2023

RMS = 1.2 @ 5.3-9 PK = -22.5 kV PWT = 1.5 kV dis. 16 mV
 PV1 = -400V, C₄H₈I 0.5% He, 1 atm, A = T + 1879
 PV2 = -400V, C₄H₈ methyl propene, C = A - 90
 35 mJ @ 193 nm E5 N. mode A + 179

34 eV
 0.25 ac5402(3) 16k 19k 1735/10.26/2.25 24

0.75° ac5403(3) 16.5k 18k 1727 9.91 2.42 24
ac5404(3) 15k 17k 24

NEW Laser Fil

0.35° ac5405(3) 10.5 12k 1700 11.54 1.88 24
ac5406(3) 11k 13k 1723 10.18 2.45 24
ac5407(3) 10k 12k 24

20eV

1.55° ac5408(50) 5k 40k 93
38 ac5409(50) 14k 39k 93
43 ac5410(50) 3.7k 38k 93
48 ac5411(50) 3.4k 35k 93
28 ac5412(50) 2.5k 43k 93
2.55° ac5413(50) -11k 46k 93
33° ac5414(90) 1.2k 41k 93
38 ac5415(50) 3 40k 93
43 ac5416(50) 3.2k 40k 93
48 ac5417(50) 6.5k 40k 93
28 ac5418(50) 3.6k 46k 93
2.55 ac5419(50) 2.2k 52k 93
33° ac5420(50) 8.87 43k 93
2.55 ac5421(50) 3.9k 53k 93
28 ac5422(50) 4.7k 49k 93
38 ac5423(50) 2.9k 43k 93
43 ac5424(50) 8.36 42k 93

48 ac5425(50) -1.7k 40k 93
33° ac5426(50) 5.7k 46k 93
34eV
1.75° ac5427(50) 15k 18k 1665 7.32 2.49 24

7121/2023

QMS: 1.20p 5.3-9 PMT=155kV PL=225kV dis=16eV

60k PVI = -400V, 0.5% H₂I in He, latm, A.T. 1829
60k PV2 = -400V, C₄H₈, Methylpropene, 556 Torr, C=A 90
30k 35mJ @ 95nm (EBM) A+179

34eV

0.35° ac5428(3) 14k 1706 8.91 2.33 24 93
1.55° ac5429(3) 14k 1703 9.36 2.58 24 0
0.75° ac5430(3) 16k 24

34eV

53° ac5431(50) 2.5k 47k 93
36 ac5432(50) 3k 49k 93
43 ac5433(50) 5.25 70k 93
1.55 ac5434(50) 290 5k 93
28 ac5435(90) 1.8k 50k 93
2.55 ac5436(50) 2.6k 49k 93
33° ac5437(50) 1.9k 3.53k 93
38 ac5438(38) 3k 38k 93

0.25" @ 54 SCS - No Lagr ON only last 11-93

7/24/2023

QMS-1.2@5.3-9 PNT=-135V PK=-22.5K disp. 1.6mV

60Hz PVI = -400V, C₁H₂ 0.5% in the beam, A = 7.0 1879
60Hz PVI = -400V, C₁H₂ Methylpropane, 5000V, C = A-90
30Hz 35mJ@93nm EGYV: made A + 17.9

30eV
0.25 ac5470(5) 21K 1224 11.37 2.18 24
ac5471(5) 21K 126 10.94 1.07 24
ac5472(5) 21K 126 10.53 2.14 24

0.25 ac5473(5) 522 46K 93
35.5 ac5474(5) 11K 47K 93
40.5 ac5475(5) 35K 51K 93
45.5 ac5476(5) 546 36K 93
30.5 ac5477(5) 51 39K 93
25.5 ac5478(5) 23K 45K 93
33.0 ac5479(5) 24K 41K 93
35.5 ac5480(5) 38K 41K 93
40.5 ac5481(5) 29K 41K 93
45.5 ac5482(5) 790 28K 93
50.5 ac5483(5) 1K 41K 93
25.5 ac5484(5) 2.9K 43K 93
33.0 ac5485(5) 3.7K 38K 93

35.5 ac5486(5) 914 35K 93
40.5 ac5487(5) 669 35K 93
45.5 ac5488(5) 4.1K 35K 93
50.5 ac5489(5) 2K 37K 93
55.5 ac5490(5) 1.7K 36K 93
60.5 ac5491(5) 2.2K 37K 93
34eV
0.25 ac5492(3) 20K 23K 1666 7.87 3.14 24

7/25/2023

QMS-1.2@5.3-9 PNT=-135V PK=-22.5K disp. 1.6mV

60Hz PVI = -400V, C₁H₂ 0.5% in the beam, A = 7.0 1879
60Hz PVI = -400V, C₁H₂ Methylpropane, C = A-90
30Hz 35mJ@93nm, EGYV, A + 17.9

0.25 ac5493(3) 29K 32K 1107 9.77 1.48 24
ac5494(3) 30K 34K 1703 9.90 1.07 24
ac5495(3) 2K 33K 1766 10.37 1.79 24
35.5 ac5496(5) 3K 47K 93
40.5 ac5497(5) 1.5K 46K 93
45.5 ac5498(5) 1.4K 46K 93
50.5 ac5499(5) 1.5K 41K 93
55.5 ac5500(5) 1.4K 42K 93

28	AC5501(50)	11K	42K	93
330	AC5502(50)	884	40K	93
355	AC5503(50)	2.8K	42K	93
40.5	AC5504(50)	-85	40K	93
45.5	AC5505(50)	1.3K	40K	93
50.5	AC5506(50)	-266	42K	93
28	AC5507(50)	-942	43K	93
330	AC5508(50)	2.3K	42K	93
	34eV			
0.75	AC5509(3)			24
0.75	AC5510(3)	31K	33K 1657 7.78 2.57	24

7126/1023
 QMS: 1.2 @ 5.3 g PK: -1.55 eV PK: -22.5 eV d3: 16.6 eV
 60Hz PVI = -400V C₁ 1.5K ThK, A = T = 1829
 60Hz PVI = -400V C₁ 1.5K, Methylpropene C = A - 80
 30Hz 35 mJ @ 19.3 mm E

Small leak from Reducer (Shell)
 Reducer - changed on new one - No smell.
 New Laser Fill

New Cylinder.

0.75	AC5511(3)	8K 10K	1730	1138	1.81	24
	AC5512(3)	8K 11K	1722	1201	1.52	24
	AC5513(3)	8.5K 11K	1720	12.02	1.72	24
	AC5514(50)	2.7K	40K			93
	AC5515(50)	45K	37K			93
	AC5516(50)	11K	36K			93
	AC5517(50)	-641	34K			93
	AC5518(50)	273	37K			93
	AC5519(50)	2.3K	40K			93
	AC5520(50)	856	36K			93
	AC5521(50)	341	35K			93
	AC5522(50)	19K	37K			93
	AC5523(50)	607	38K			93
	34eV					
0.75	AC5524(3)	11K	13K			24
0.75	AC5525(3)	12K	14K 1692 9.51 2.25			24

7/27/2023

dis=1.6uV QMS=1.2@5.3-9 PWT=-1.35kV DK=-22.5kV

60Hz PVI = -400V, C₂H₄I 0.5% in He, A=70+1849
60Hz PVI = -400V, C₂H₄ Methylpropene C=A-90
30K 35mJ@193nm EGN, A+179

34uV

0.75 ac5526(s) 10K 1736 106 2.06 24
ac5527(s) 10L 7K 1725 11.36 1.57 24
ac5528(s) 10L 13K 1737 11.16 24

80uV

35 ac5529(s) 164 42K 93
35 ac5530(s) -839 42K 93
40.5 ac5531(s) 14K 93

45.5 ac5532(s) 15K 32K 93

80.5 ac5533(s) 25K 55K 93

305 ac5534(s) 49K 35K 93

33 ac5535(s) 394 36K 93

35.5 ac5536(s) 3.8K 37K 93

40.5 ac5537(s) 2K 34K 93

45.5 ac5538(s) 832 32K 93

30.5 ac5539(s) 3.2K 37K 93

30.5 ac5540(s) 44K 37K 93

33 ac5541(s) 6.1K 39K 93

35.5 ac5542(s) 2.2K 36K 93
40.5 ac5543(s) 2K 36K 93
45.5 ac5544(s) 2K 34K 93
30.5 ac5545(s) 4.4K 41K 93
30.5 ac5546(s) 3.7K 39K 93
33 ac5547(s) 2K 37K 93

34uV

0.75 ac5548(s) 18K 19K 1647 8.24 2.61 24

7/28/2023

QMS=1.2@5.3-9 DK=-22.5kV PWT=-1.35kV dis=1.6uV

60Hz PVI = -400V, C₂H₄I 0.5% in He, A=70+1879

60Hz PVI = -400V, C₂H₄ Methylpropene C=A-40

30K 35mJ@193nm EGN, A+179

34uV

0.75 ac5549(s) 2K 14K 1685 8.27 2.16 24

ac5550(s) 2.2K 14K 1686 8.21 2.43 24

ac5551(s) 2.2K 24

80uV

35 ac5552(s) 4K 37K 94

35 ac5553(s) 24 93

35.5 ac5554(s) 2K 50K 93

34	ac5555(50) 9K 9K	93
43	ac5556(50) 35K 52K	93
35.5	ac5557(50) 2.4K 52K	93
35	ac5558(50) 2.7K 47K	93
43	ac5559(50) 2.7K 46K	93
35.5	ac5560(50) 2.9K 45K	93
35.5	ac5561(50) 3.1K 46K	93
38	ac5562(50) -3.4K 42K	93
43	ac5563(50) 2.2K 40K	93
35.5	ac5564(50) 669 37K	93
38	ac5565(50) 3.2K 39K	93
43	ac5566(50) -1.7 36K	93
133	ac5567(50) 470 38K	93
20.5	ac5568(50) 3.8K 41K	93
20.5	ac5569(50) -498 40K	93
30.5	ac5570(50) 5.7K 43K	93
133	ac5571(50) 2.2K 41K	93
	34ev	
0.75	ac5572(3) 23K 26K	24
0.75	ac5573(3)	24
0.75	ac5574(3) 25K 28K 1652 7.18 2.59	24

34ev

7/29/2023

QMS: 1.2 @ 5.5-9 DX₂ -22.5kV pMT = -1.35kV J₁ = 1.1kV
 PVI = -400V, C₄H₈I 0.5% in H₂, 0.9 atm, A = T + 1879
 PV2 = -400V C₄H₈, Methyl propene, 550 Torr, C = A - 40
 35 mJ @ 193 nm EGYN, A + 179

ac5575(3)	26K 29K	1685	7	88	1.60	24
ac5576(3)	27K 30K	1688	7	75	1.65	24
ac5577(3)	28K 30K	1682	8.37	1.79	1.79	24
<u>PVI = AR, 550 Torr</u>						
ac5578(3)	25K 27K	1667	7.69	2.9		24
ac5579(3)	25K 27K	1659	7.71	1.60		24
ac5580(3)	25K 28K	1657	7.90	1.61		24

35	ac5581(50)	93
30.5	ac5582(50) 16K 16K	93
28	ac5583(50) 41K 49K	93
35	ac5584(50) 2.5K 50K	93
43	ac5585(50) -242 47K	93
43	ac5586(50) 1.3K 46K	93
163	ac5587(50) 1.27K 50K	93
33	ac5588(50) 207 42K	93
	34ev	
0.75	ac5589(3) 23K 26K 1644 6.32 5.15	24

7/31/2023

QMS: 1.2 @ 5.3-9 MHz - 1.55kV PK, 27.5kV ds, 1.6mV
 PV1 = -400V, C₁I₁ 0.5% in the 0.9kV, A = T⁰ + 1879
 PV2 = -400V, C₂I₂ 0.5% in the 0.9kV, C = A - 90
 1.5mJ @ 193nm, EBY N, A = 179 26kV in msp, 11.7kV

0.75° ac5590(3) 20k 22k 1731 9.95 1.43 24
 0.75° ac5591(3) 20k 22k 1719 11.21 2.10 24
 0.75° ac5592(3) 22k 24k 1730 10.39 2.08 24

33° ac5593(50) 1.9k 28k C = A - 90 94
 ac5594(50) 1.9k 39k C = A - 90 93
 ac5595(50) 2.3k 40k C = A - 85 93
 ac5596(50) 2.6k 41k C = A - 95 93
 ac5597(50) 2.3k 34k C = A - 90 94
 ac5598(50) 2.1k 46k 93
 ac5599(50) 1.7k 46k Laser off 80
 ac5600(15) 1.8k 1.5k Laser off 79

33° ac5601(50) 662 43k 93
 ac5602(50) 93
 ac5603(50) -1.3k 42k 93
 ac5604(50) 93

25° ac5605(50) 11k 31k 94
 25° ac5606(50) -1.2k 42k 93
 25° ac5607(50) -979 40k 93
 25° ac5608(50) - 94
 25° ac5609(50) 1.5k 20k 94
 25° ac5610(50) 293 36k 93
 34eV

0.75° ac5611(3) 24k 28k 1691 9.97 2.15 24

New Laser R11

8/1/2023

QMS: 1.2 @ 5.3-9 MHz - 22.5kV PK, 18.5kV ds, 1.6mV
 PV1 = -400V, C₁I₁ in the 0.5%, A = T⁰ + 1879
 PV2 = -400V, C₂I₂ 0.5% in the 0.9kV, C = A - 90
 1.5mJ @ 193nm, EBY N, 1.5.9kV in msp, 11.7kV

0.75° ac5612(3) 8.5k 10k 1728 10.62 1.62 24
 ac5613(3) 9k 12k 1725 10.97 1.69 24
 ac5614(3) 10k 12k 1716 11.25 1.89 24

0.75° ac5615(50) 354 37k C = A - 90 93
 0.75° ac5616(50) 39k C = A - 90 93
 0.75° ac5617(90) 39k C = A - 90 93

05616 C2A-92

33°	ac5618(50)	1K 49K	93
35°	ac5619(50)	-669 35K	93
43°	ac5620(50)	-839 35K	93
48°	ac5621(50)	546 33K	93
28°	ac5622(50)	19K 41K	93
305°	ac5623(50)	17K 41K	93
33°	ac5624(50)	3K 41K	93
38°	ac5625(50)	1.4K 39K	93
43°	ac5626(50)	1.9K 39K	93
48°	ac5627(50)	2.2K 38K	93
28°	ac5628(50)	-1.6K 39K	93
305°	ac5629(50)	1.5K 39K	93
33°	ac5630(50)	-2.2K 37K	93
38°	ac5631(50)	-1.2K 38K	93
43°	ac5632(50)	-3.1K 36K	93
48°	ac5633(50)	1.4K 42K	93
28°	ac5634(50)	-2.1K 46K	93
33°	ac5635(50)	-3K 40K	93
	34ev		
075°	ac5636(3)		24
075°	ac5637(3)	750 43K very low	24

228 mTorr Test pump

The plastic around the lens is broken, maybe the reason why no signal.

New Filter.
on Excimer Laser

8/2/2023

RMS = 1.2 @ 5.3 9 PMT2 - 1.35H PK - 220 kV d.s.c./h.m.
 60H PUL = -400V, C₂H₂ 0.5% H₂, C₂H₄, A-70+1879
 60H PUL = -400V, C₂H₂, C₂H₄, C₂H₆, C₂H₂ + 1879
 60H 35 mJ @ 193 nm EBYN, 265 kV in Mor A-79

New Cylinder

36V
 075° ac5638(3) 94K 1K 1722 11.51 1.78 24
 ac5639(3) 7.8K 1K 1735 10.89 2.22 24
 ac5640(3) 8.9K 1K 1743 11.23 1.68 24

80V

33° ac5641(50) 976 33K 94
 37 mJ

35° ac5642(50) 4K 44K 93
 38 ac5643(50) 1.3K 45K 93
 43 ac5644(50) -2.5K 47K 93
 28 ac5645(50) -109 46K 93
 305 ac5646(50) 580 48K 93
 33° ac5647(50) 93

Unstable Freq. on IV1.
FD1 → switch to 100Ω?

340V
0.25°

ac5648(3)	14k	16k	115	10.15	2.16	24
ac5649(4)	14k	16k	115	9.72	1.35	14
ac5650(3)	15k	17k	107	10.88	2.10	24

80V
53°

ac5651(50)	24k	33k	(= A - 92)	93
ac5652(50)	27	31	C = A - 87	93
ac5653(50)	24	31	C = A - 90	93.1

m/z

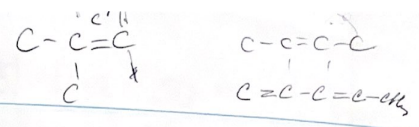
Calibration QMS

QMS = 1.1 @ 5.3 - 11

80V
0.25°

340V
0.25°

ac5654(50)	15k	h=450	111	9.81	2.16	94
ac5655(50)	14k	h=350	171	10.38	1.52	24
ac5656(50)	15k	h=340	131	10.63	1.82	14



80V
53°

ac5657(15)	3k	30k	No! High Noise	78
ac5658(15)				92
ac5659(50)	1.5k	26k		94
ac5660(50)				99
				99
				94
				94
				94

Reference

1,3BD
32.5° 80V m/z 91

- (25) 5 swaps.
- 37 mJ
 - 65 mJ

C = A - 90.

342v

0.75°	ac5660(13)	24
0.75°	ac5661(13) 16K 19K	24
80ev		
32.5°	ac5662(25) 25K 205K 35mJ	21
32.5°	ac5663(25) 10K 195K 65mJ	91
32.5°	ac5664(25) 19K 200K change turn 65mJ	91
Resistance position back		
32.5°	ac5665(25) 15K 212K 65mJ 53.9	91
34ev		
0.75°	ac5666(3) 18K 21K	24
206 m Torr		

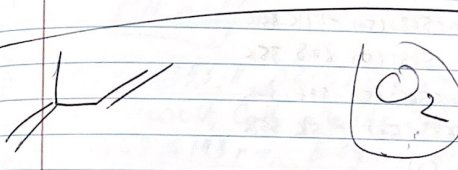
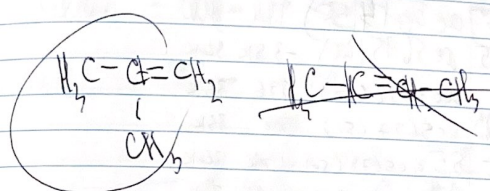
8/3/2023

6 QMS: 1.2 @ 5.3 - 11 PK-22.5KV PWT-1.5K d.s. head
 60V PU - 400V, CWT 0.5% He, A: T^o + 1879, 0.9K
 60V PU - 400V, 1/4% cis-butene, ELOP 11 C: A 90.
 30V 35mJ @ 193mm, EBY N, 37mJ, A: 179

34ev

0.75°	ac5667(13) 17K 19K 113 9.94 2.19	24
90		
320°	ac5668(15) - 102 21K	94

33°	ac5669(15)	-5K 61K	92
	ac5670(15)	100K	91
	ac5671(15)	100K 0FR	78



(30/3) +

PU2 - 400V, Methylpropene.

33°	ac5672(15)	3.3K 16K	80
	ac5673(15)	3.9K 34K	78

PV = -400V, He, 2 atm

elastic scattering at 93

80 eV
0.75 ac 5673 (3) 296 1731 12.5 1.83 4

0.3 ac 5674 (50) 1.6K 34K 93

255 ac 5675 (50) -3.9K 34K 93

28 ac 5676 (50) 996 35K 93

305 ac 5677 (50) 300 33K 93

35.5 ac 5678 (50) 1.2K 34K 93

38 ac 5679 (50) 266 34K 93

40.5 ac 5680 (50) -2.7K 33K 93

43 ac 5681 (50) 628 35K 93

46 ac 5682 (50) 176 34K 93

33 ac 5683 (50) -1.5K 35K 93

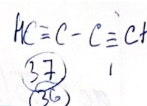
0.75 ac 5684 (3) 4

0.75 ac 5685 (3) 2.4K 1741 12.5 9.76 7.2K 4

C₂H₂I (cylinder pumped 20 min at backing pressure 2 Torr, still gas left.

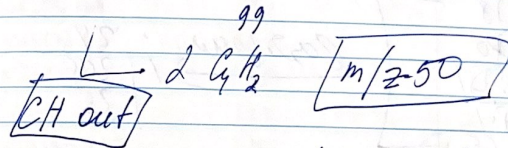
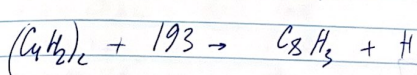
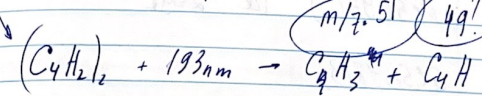
99
49.5

8/4/2023 a
1° C₂H₂ out



Pinet
forms
for
in
HB

C₂H₂ in He/Ar



AMS: 2.1 @ 5.5 n DK=22.5kV PMT=1.55kV d=1.6mV

PV=-400V, C₂H₂ in He/Ar 4/10, 550 Torr

37mJ @ 193nm, E=4N, A-179

340V

0.75 ac 5686 (3)	A-179	24.5
ac 5687 (3)	A-164	24.5
ac 5688 (3)	A-172	24.5
ac 5689 (3)	A-167	24.5
ac 5690 (3)	A-179/169	13
ac 5691 (3) 35mJ	A-179	13
ac 5692 (3)	169	13
ac 5693 (3) 65mJ	A-179	13
ac 5694 (3)	A-182	13

PMT: 1.30kV