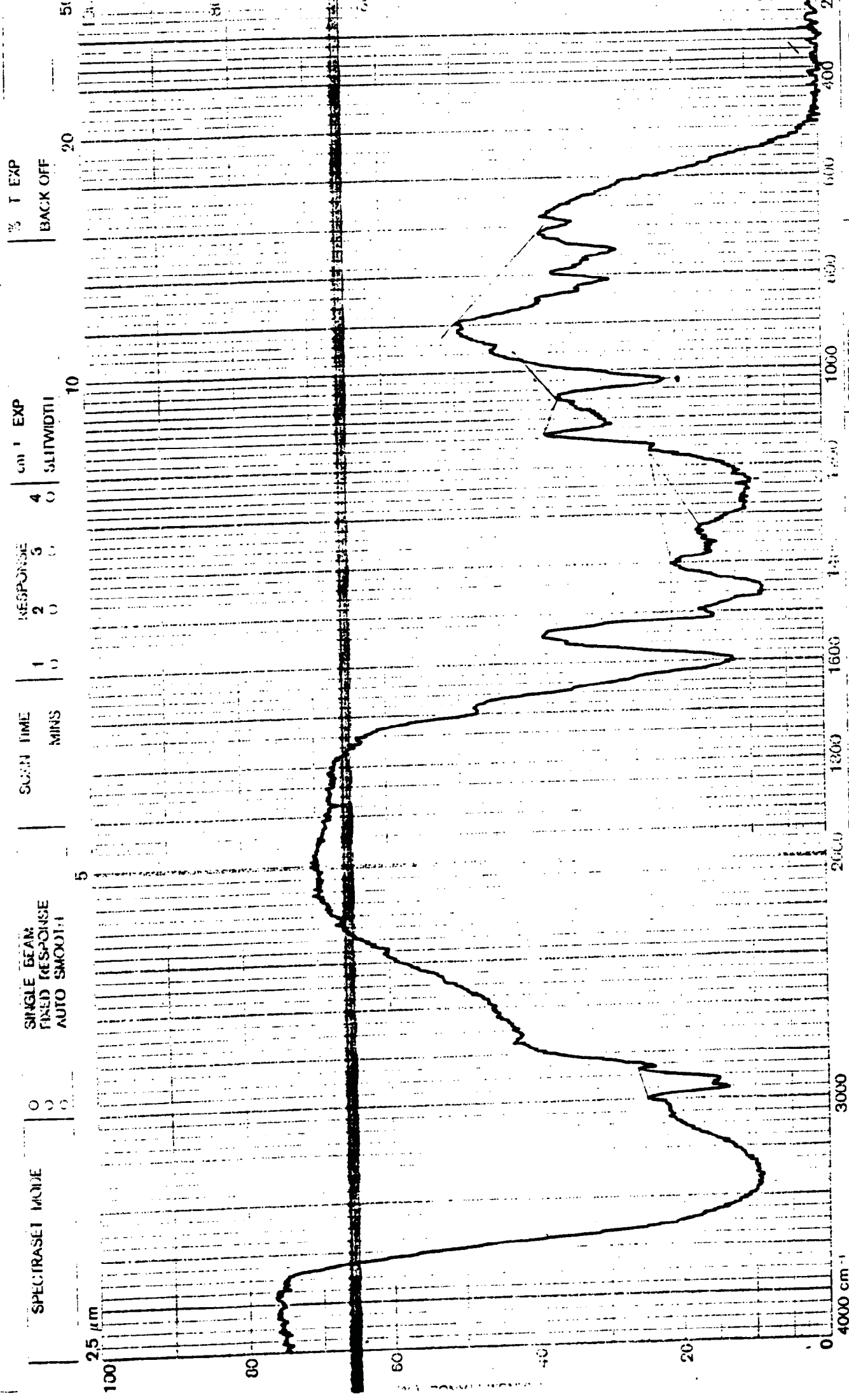




% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

RESPONSE
2 0 0 5 0

SCAN TIME
1 0 0 MINS

SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

0 0 0

SPECTRASET MOVE

13

OPERATOR
DATE 19/04/90
REF No

PATHLENGTH
CONCENTRATION

TECHNIQUE
REFERENCE

SAMPLE
Resin 4C (20 minutes reaction time)

PART No 641748

% T EXP
BACK OFF

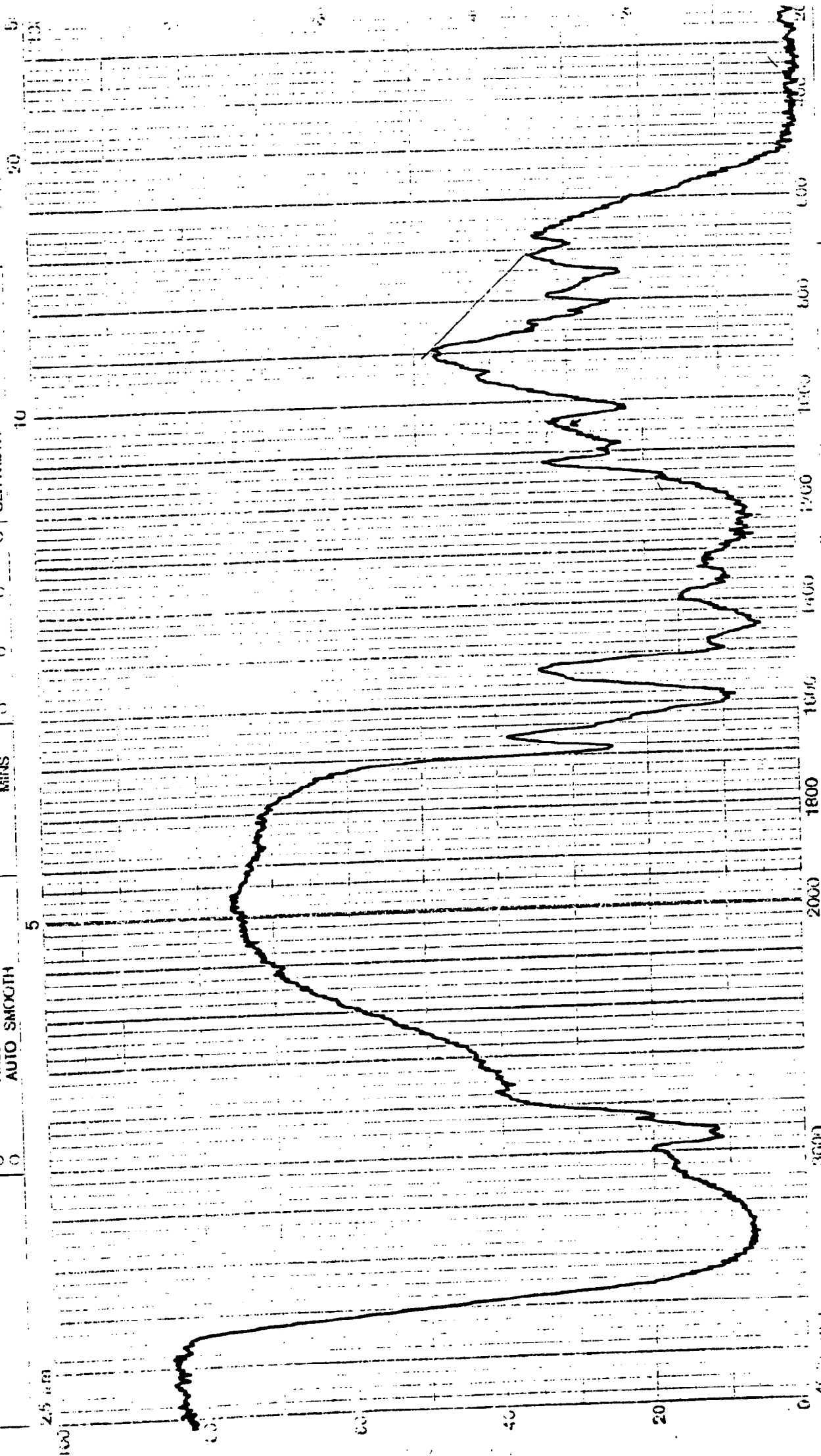
EXP 1

2
3
RESPONSE

1
—
JAN

**SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH**

SHUTTLASLE MODE



OPERATOR
DATE 12/04/90

PATHEM:TM

CONCLUSION

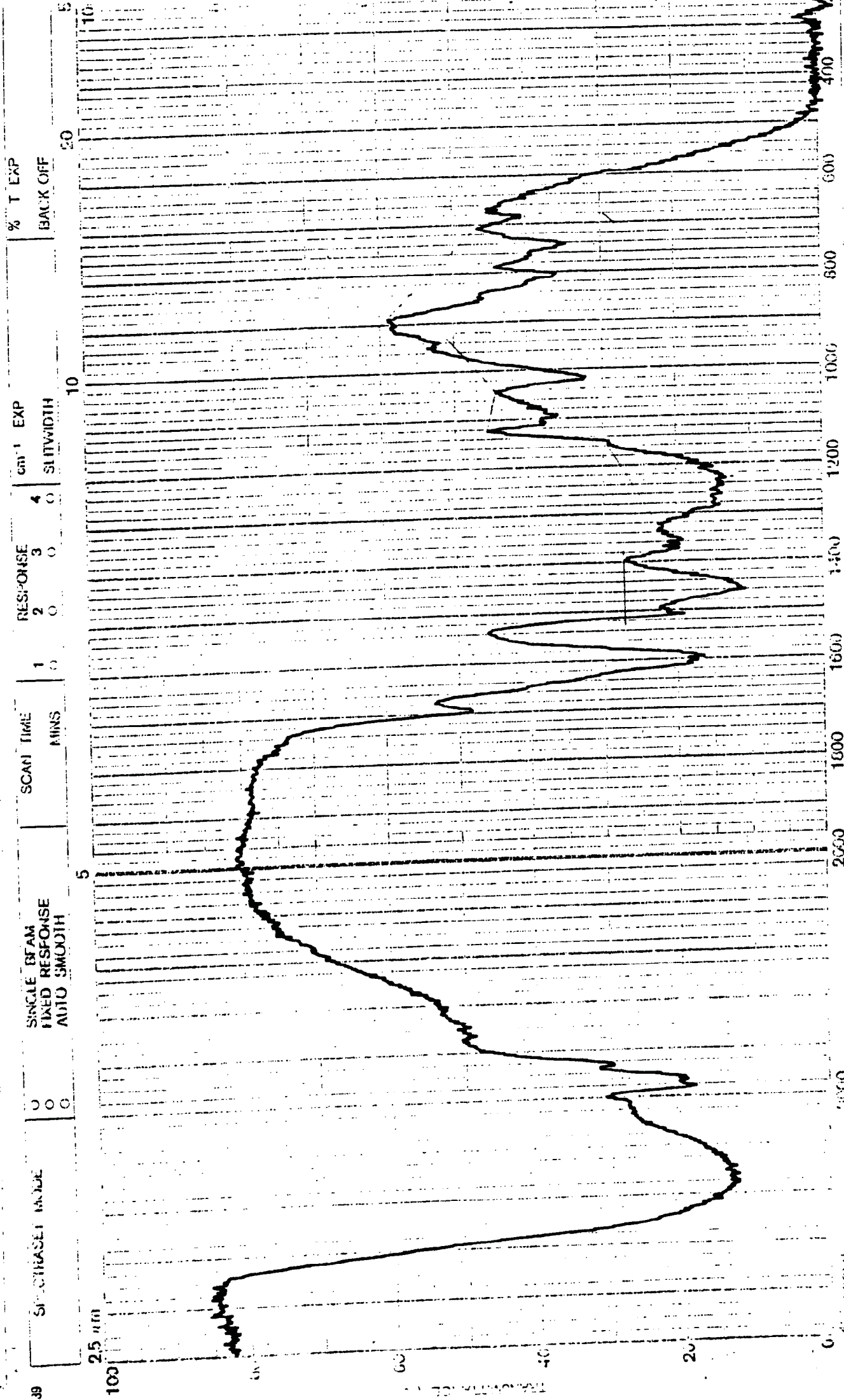
Resin 4C (25 minutes reaction time)

PLATE 10

[illegible]

2114-11-0412

14



% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

RESPONSE
2 3 0 0 0

SCAN TIME
1 0 0 0 0
MINS

SINGLE BFAM
FIXED RESPONSE
AUTO SMOOTH

15

OPERATOR
DATE 12/04/90
REF No

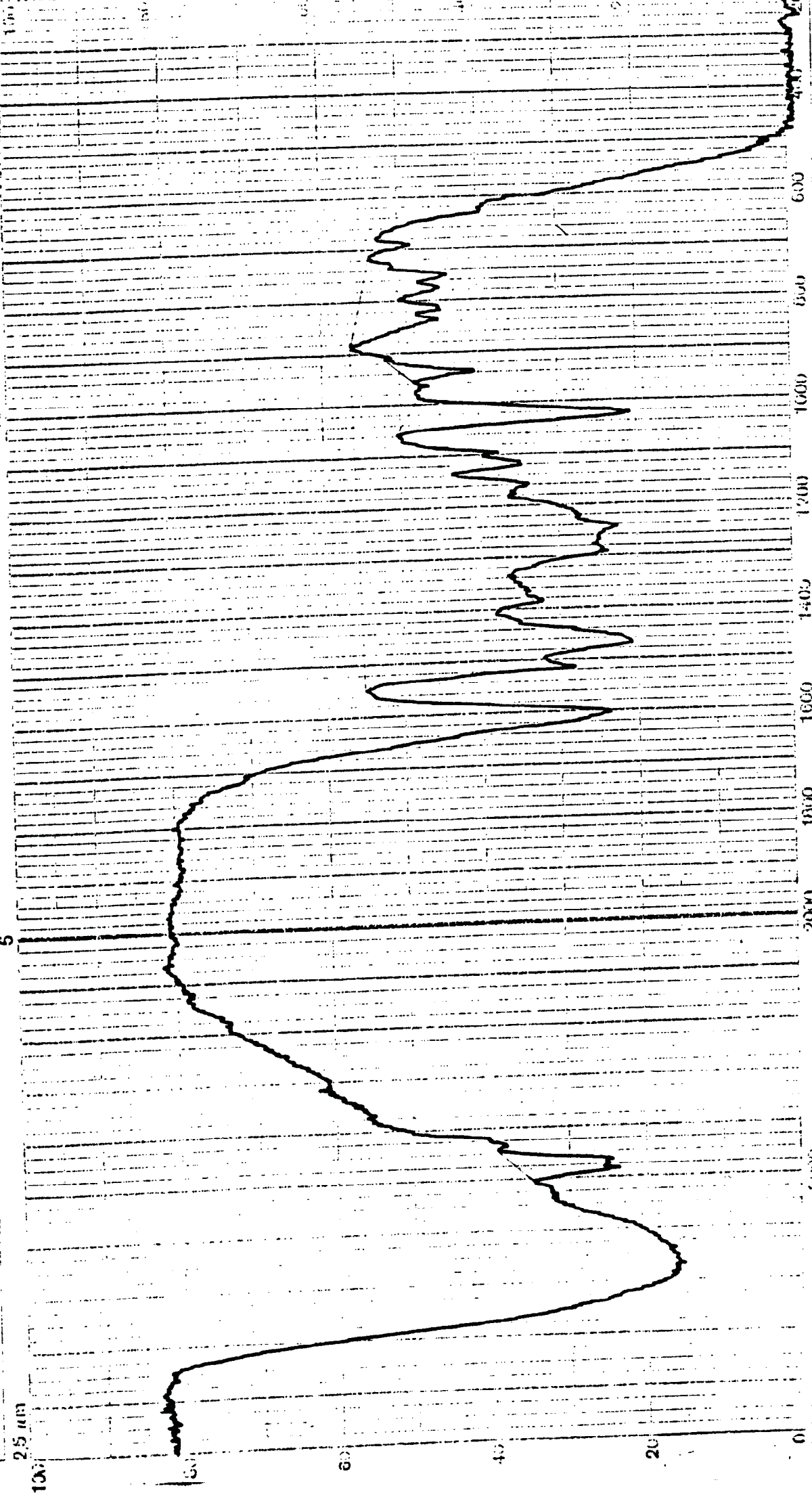
PATHLENGTH
CORRECTION

ELECTRICAL
REFERENCE

Resin 4C (30 minutes reaction time)

SAMPLE

SPECTRASET MODEL	SINGLE BEAM		SCAN TIME	RESPONSE		cm ⁻¹	EXP	% T EXP
	0	0		1	0			
	0	0	MINS	2	3	4		
	0	0		0	0	0		
	0	0		0	0	0		
	0	0		0	0	0		



SAMPLE	TECHNIQUE	PATHLENGTH	OPERATOR	DATE	REF No	PART No
4C mixture (40°C)				19/4/90		
0 time (just after mixing)						

16

SPECIKASSET MODE

1

**SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH**

SCAN TIME

SNIP

RESPONSE

3

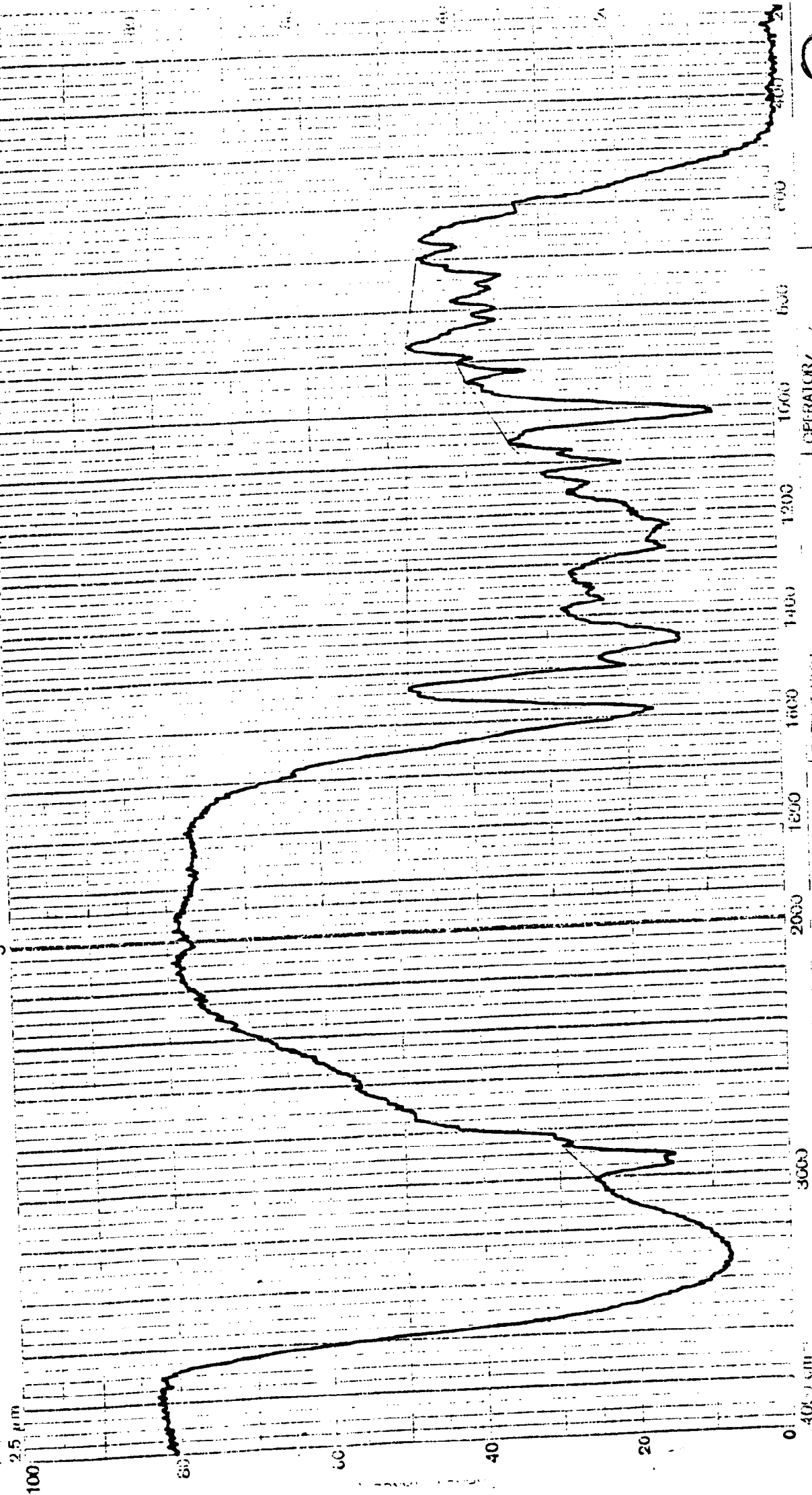
3

EXP.

7

% I EXP

BACK OFF



SAVILE

4C mixture (40°C)
6 minutes

TECHNIQUE

11-10-81

FATH ELKADI

11-11-1960

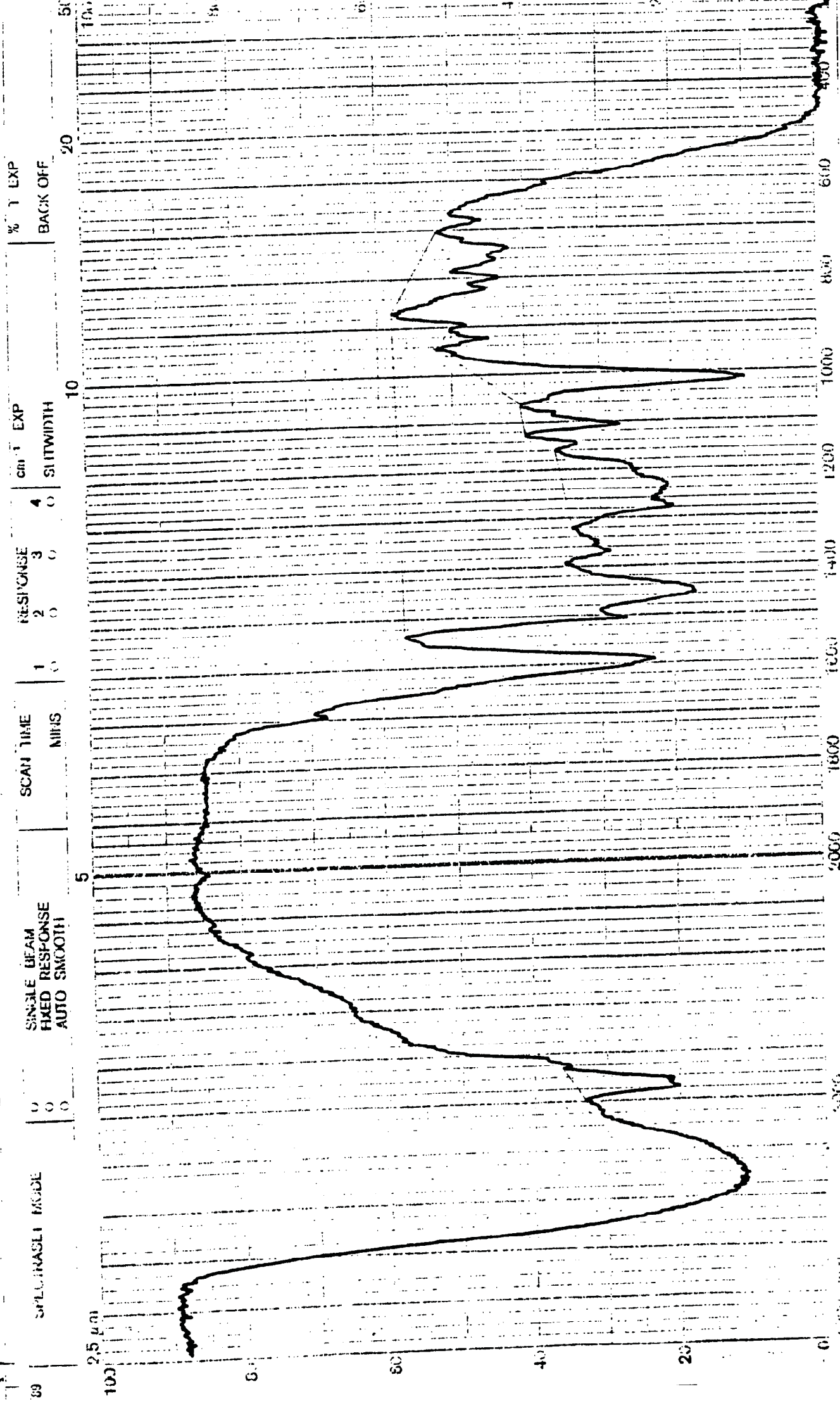
OPERATOR

DATE 19/4/90

613-150

Environ Biol Fish (2015) 98:1137–1148

⑦



SPC/GRASLI MODE	0	0	0	SINGLE BEAM	1	2	3	4	cm⁻¹ EXP	% T EXP
	0	0	0	FIXED RESPONSE	0	0	0	0		BACK OFF
	0	0	0	AUTO SMOOTH	0	0	0	0		
SCAN TIME				MINUS		RESPONSE		SLITWIDTH		

SAMPLE	TECHNIQUE	PATHLENGTH	DATE	OPERATOR
4C MIX (40°C)	REFERENCE	1000	19/4/90	
12 min				

% T EXP
BACK OFF

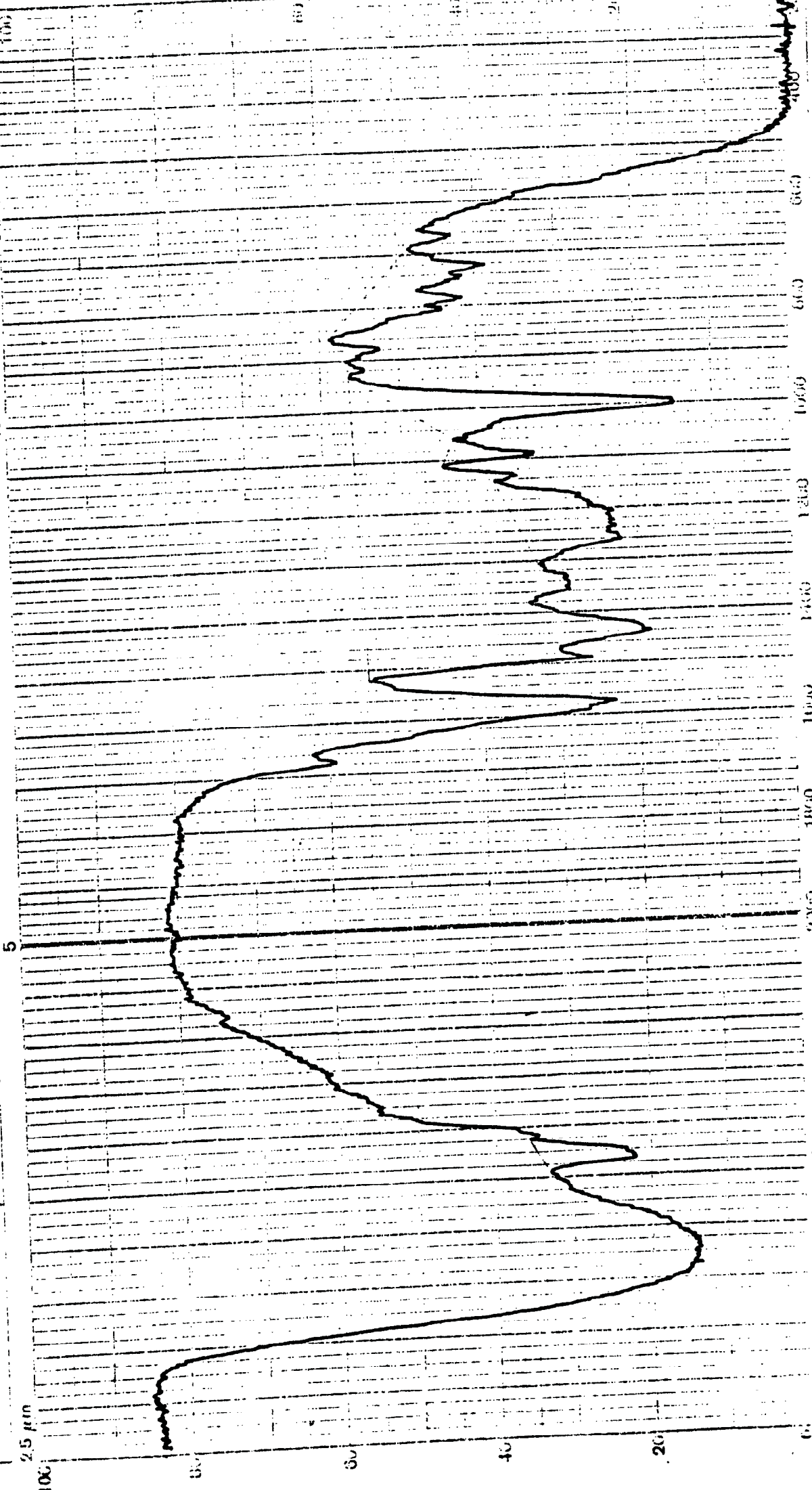
cm⁻¹ EXP
SLITWIDTH

RESPONSE
1 2 3 4

SCAN TIME
MINUS

SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

SPECTRASEL MODE



19

OPERATOR
DATE 19/4/90

PATHLENGTH

TECHNIQUE

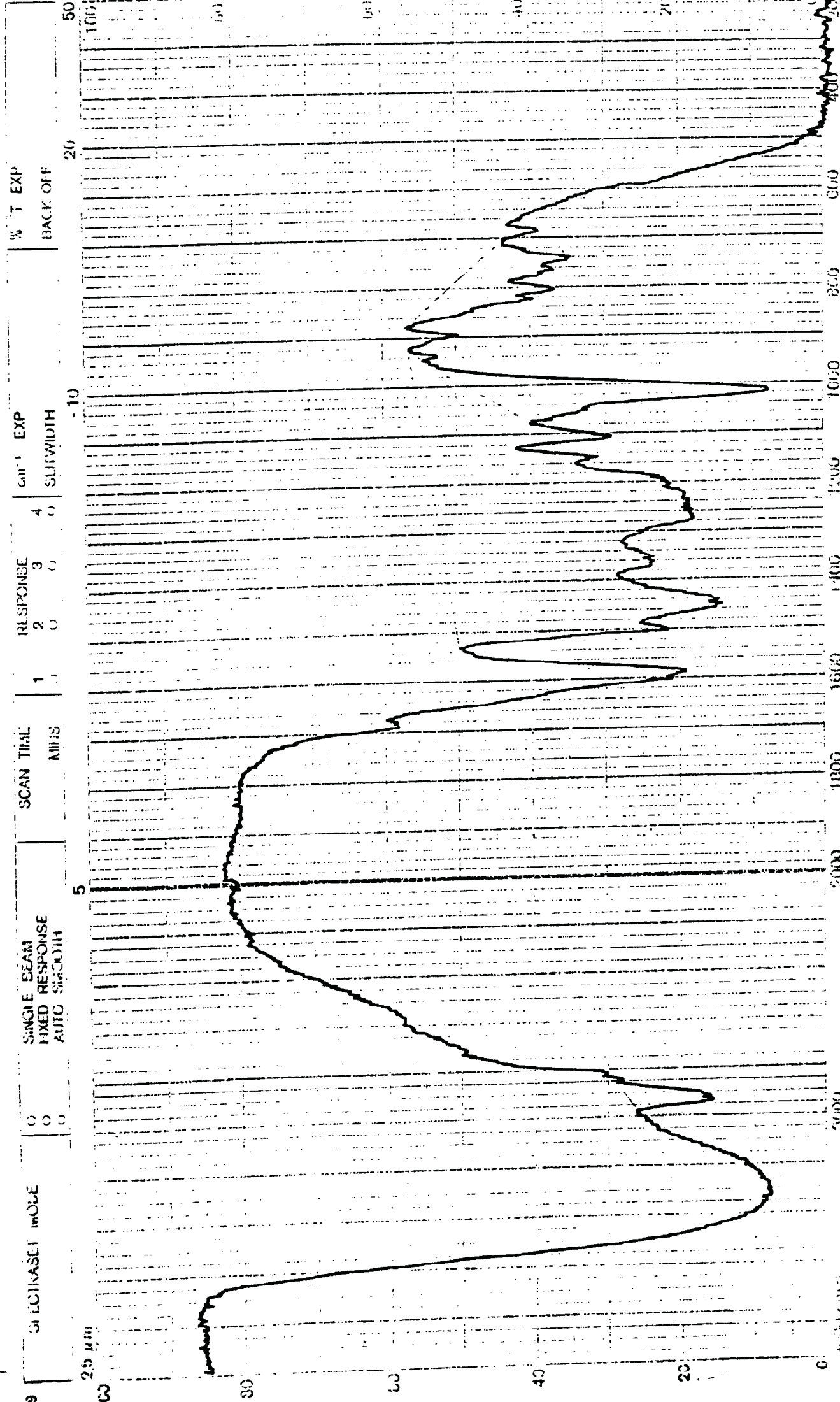
4C mix (40°C)
18min

SAMPLE

PAGE 15 OF 18

COPY 1 OF 1

REF 1000



9	SOURCE SET MODE	SINGLE BEAM FIXED RESPONSE AUTO SMOOTH	SCAN TIME MIN:SS	1 0	RESPONSE	2 0	3 0	4 0	cm⁻¹ EXP SLIT WIDTH	% T EXP BACK OFF
---	-----------------	--	---------------------	--------	----------	--------	--------	--------	------------------------	---------------------

SAMPLE: 4C mix (40%) 24min

TECHNIQUE: REFLECTANCE

PATHLENGTH: 0.5000 CM

OPERATOR: DATE 19/4/90

PART NO: 001-000

20

100

SALICISALICYLIC ACID

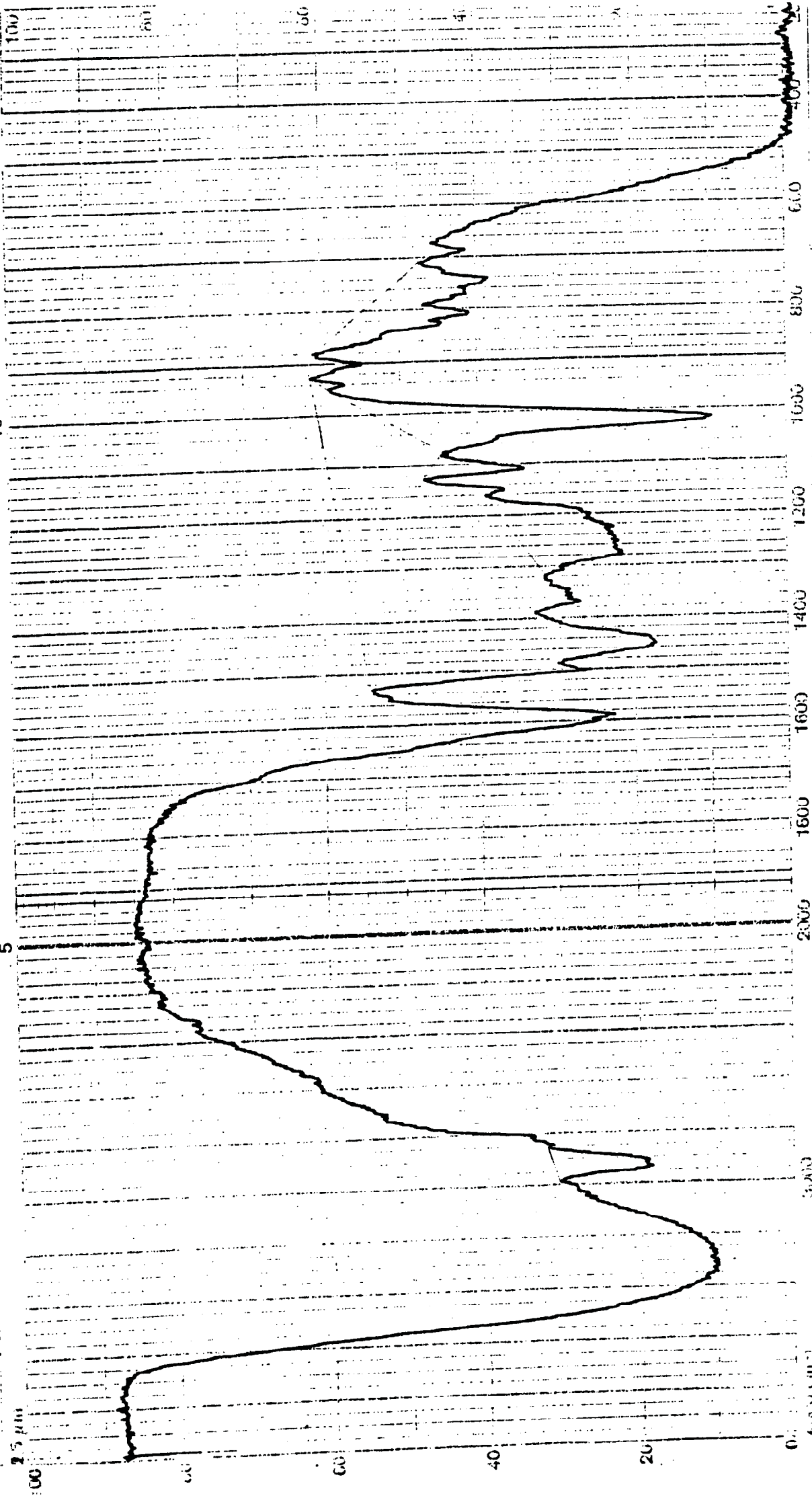
SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

SCAN TIME
MINS

RESPONSE
2 0 0 0 0 0

cm⁻¹ EXP
4 0

% T EXP
BACK OFF



SCANNED

4C mix (40%)
36 min

ELECTRIC

PATH LENGTH

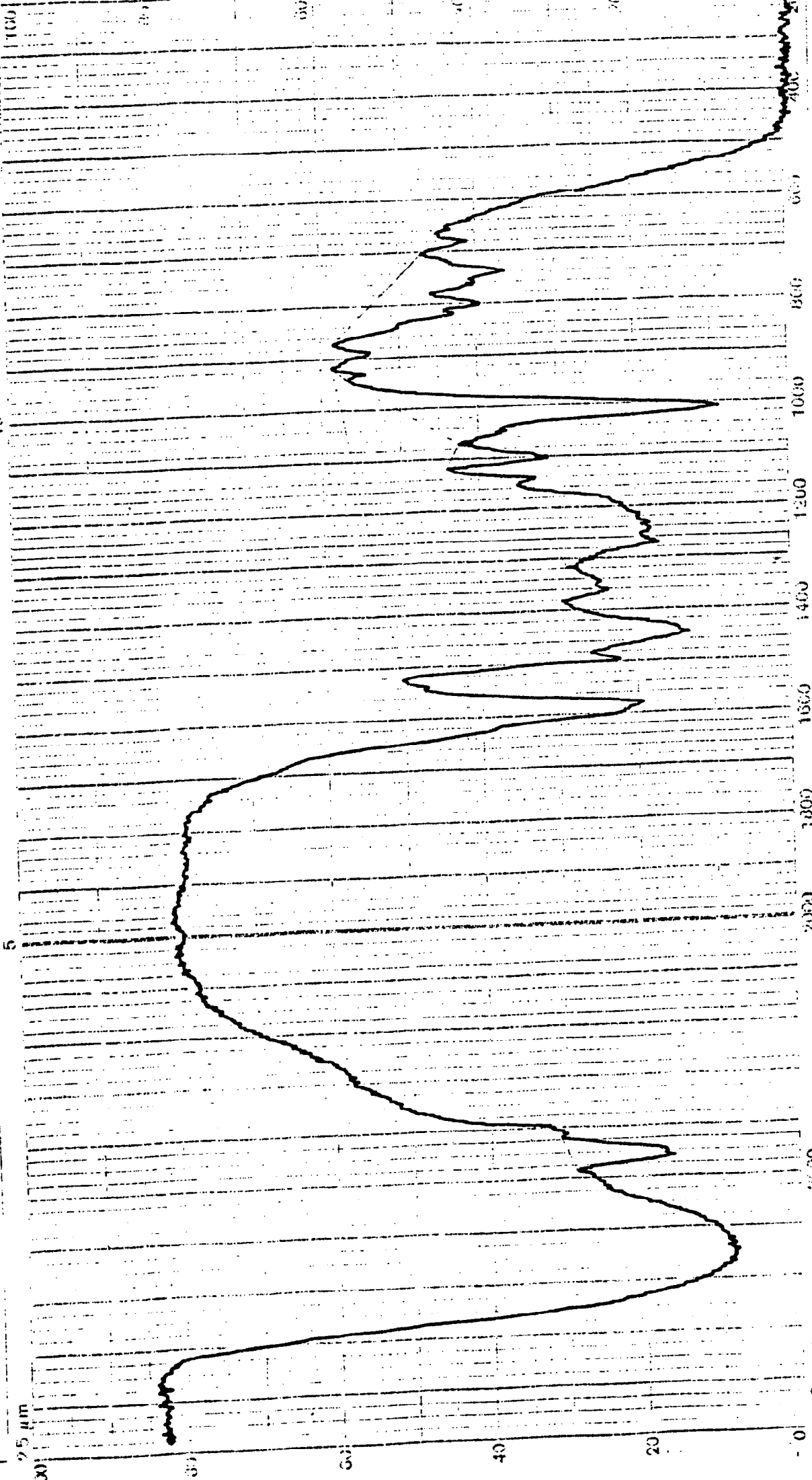
CONCENTRATION

OPERATOR
DATE 19/4/70

51

PART NO. 6417 H

89	SELECTED MODE	0	0	0	SINGLE BEAM FIXED RESPONSE AUTO SMOOTH	SCAN TIME MINS	1	2	3	4	cm ⁻¹ EXP SLITWIDTH	% T EXP BACK OFF
----	---------------	---	---	---	--	-------------------	---	---	---	---	-----------------------------------	---------------------



TECHNIQUE	PATHLENGTH	OPERATOR DATE	92
DIFFUSE	CORRECTION	19/4/90	PART 03 51174E

46 min (40°C)
4-6 min

8.89

SILICONASET MODE

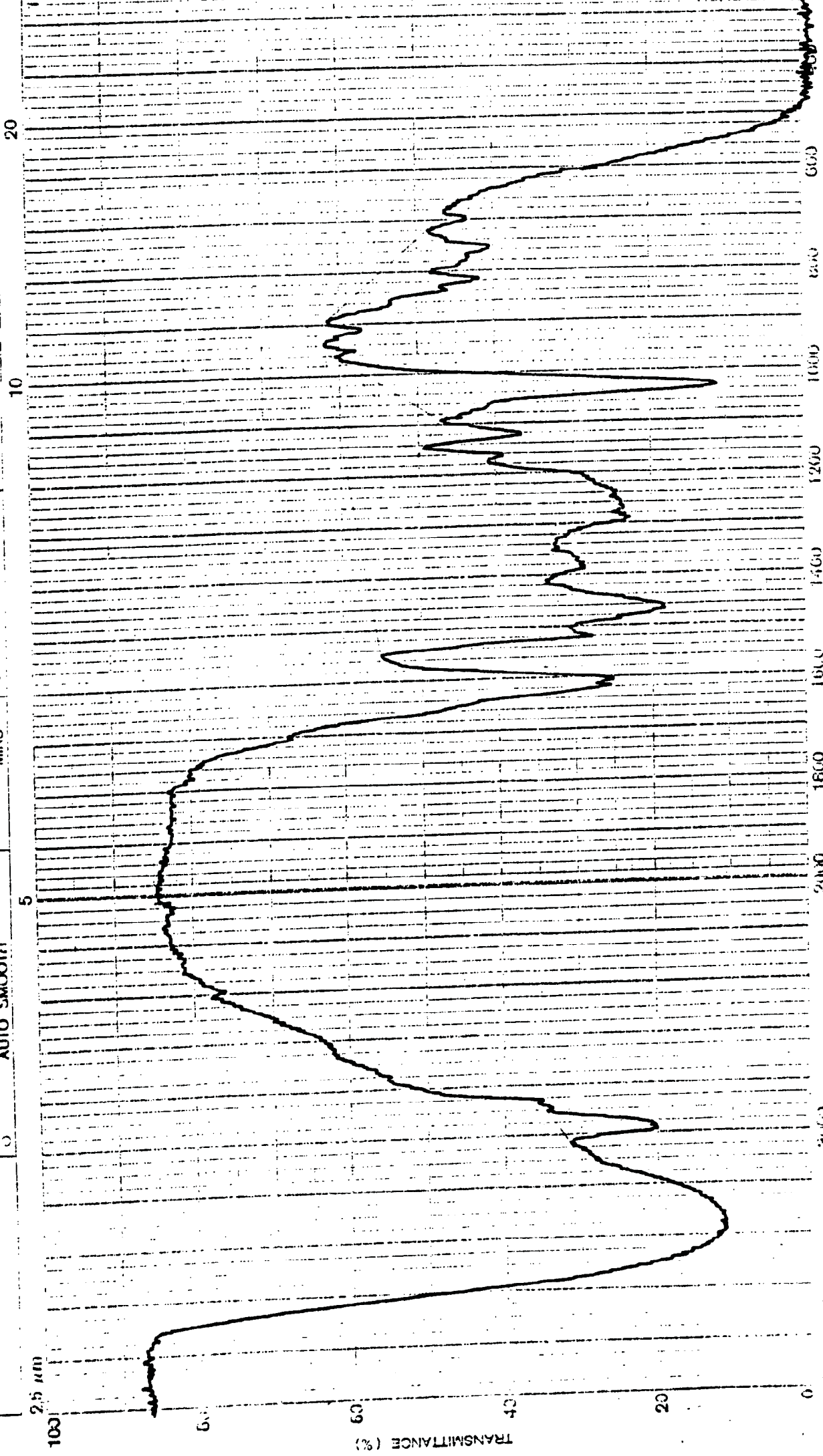
SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

SCAN TIME
MINS

RESPONSE

cm⁻¹ EXP
SLID WIDTH

% T EXP
BACK OFF



SAMPLE

4C mix(40°C)
66 min

TECHNIQUE

PATHLENGTH

OPERATOR
DATE

19/11/90

23

REFERENCE

COMP. THERMOCAL

REV 1.00

PAT. No. 6.41742

24

PART NO. C-1748

OPERATOR
DATE 20/4/90

PATHLENGTH

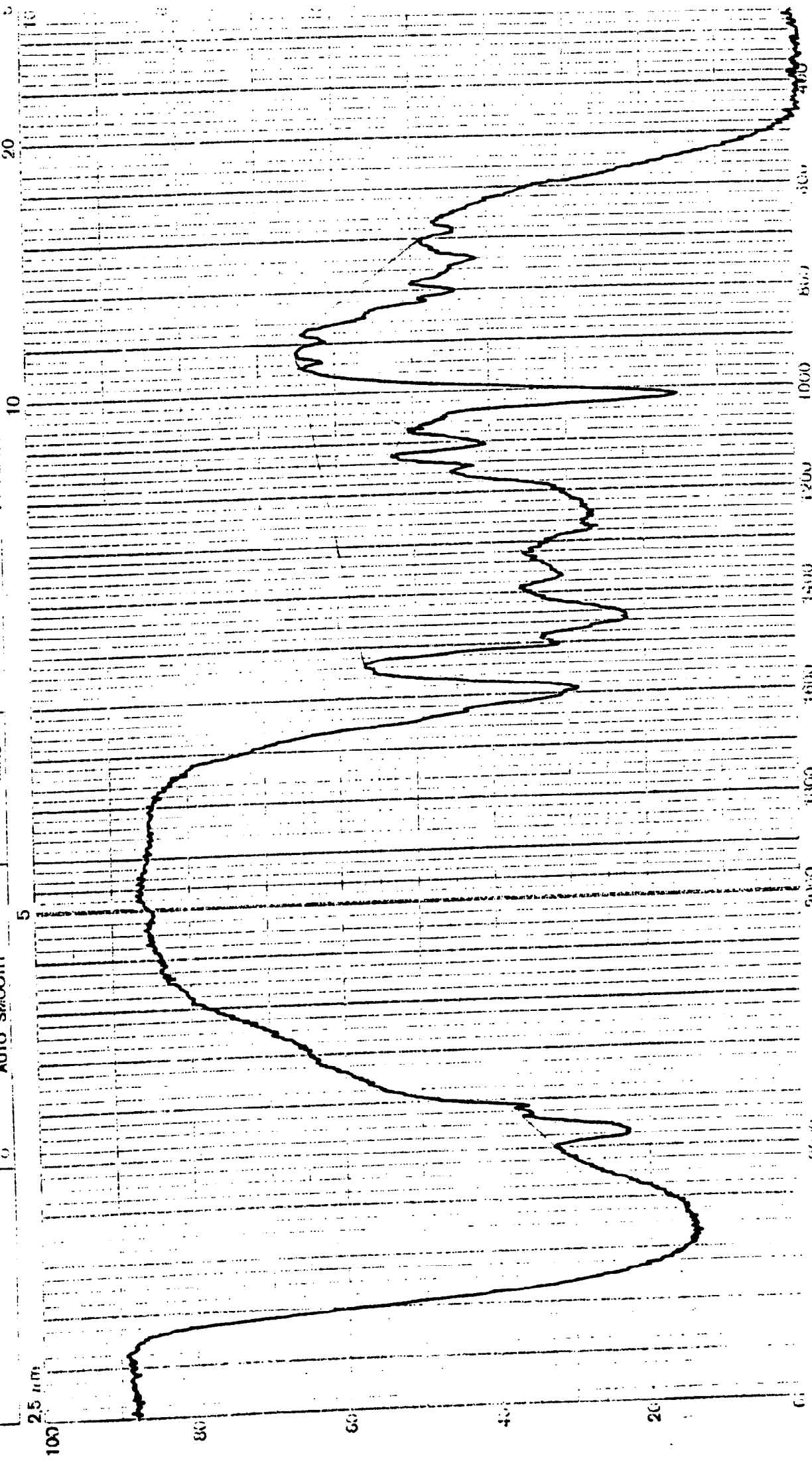
COOL CURTAIN

TECHNIQUE

REFERENCE

4.6 ml x (40%)
90 min

SPECTRASET MODE	SINGLE BEAM FIXED RESPONSE AUTO SMOOTH	SCAN TIME MINS	RESPONSE	EXP SLITWIDTH	% T EXP BACK OFF
0	0	1	2	4	
0	0	0	0	0	
0	0	0	0	0	



SPECTRASET MODE

SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

SCAN TIME

MINS

RESPONSE

1 2 3

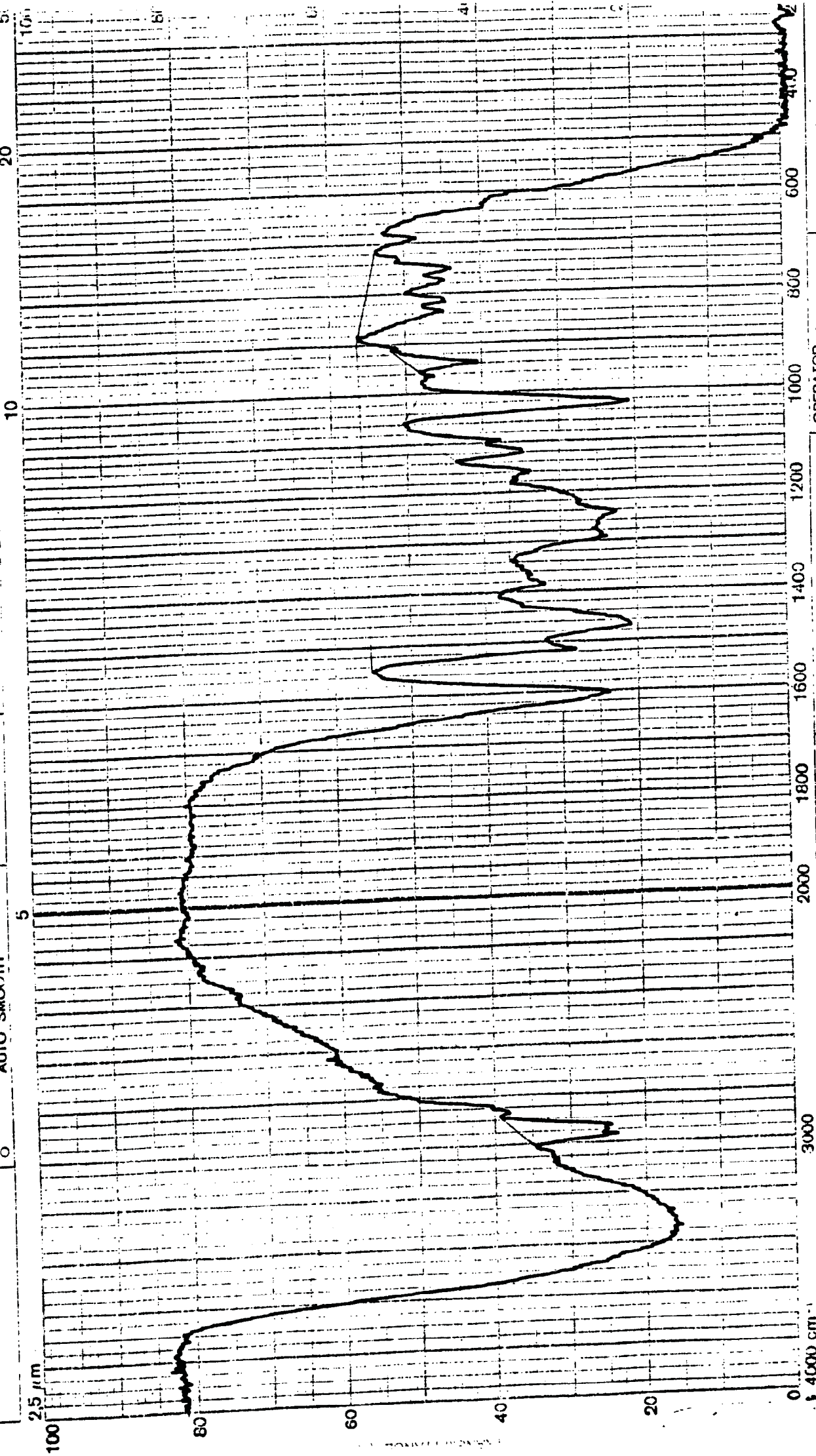
cm⁻¹ EXP

4 0

SLITWIDTH

% T EXP

BACK OFF



SAMPLE

4C mixture (Room T)

TECHNIQUE

REFERENCE

PATHLENGTH

CONCENTRATION

OPERATOR

DATE

REF No

PART No 641740

9.5

14/4/90

(7 time just after mixing)

1 EXP
BACK OFF

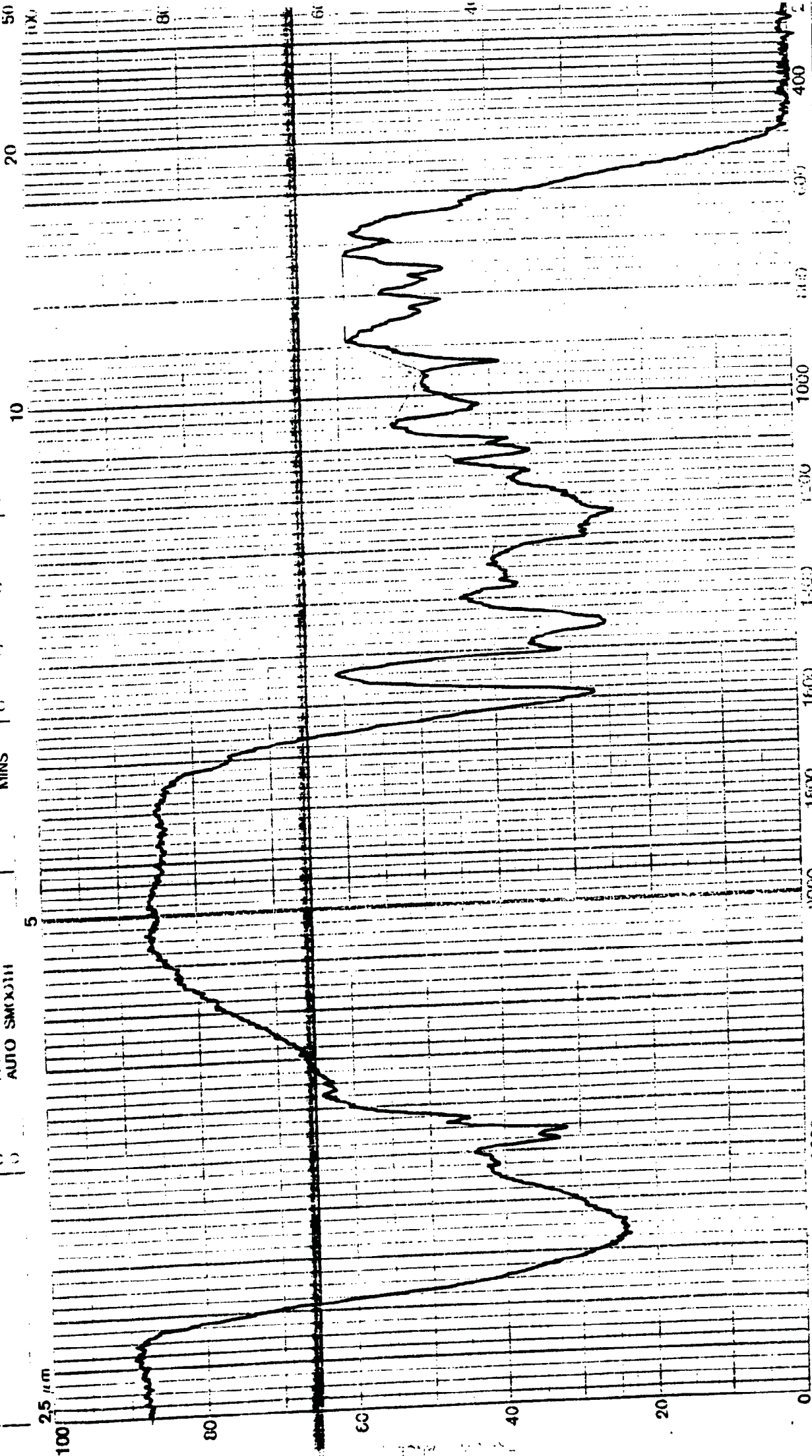
cm ⁻¹ EXP	SPLITWIDTH
4000	4

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839. 840. 84

SCAN TIME

**SINGLE BEAM
FIXED RESPONSE
AUTO SMOKE!!!**

SPELLKASSET MODE



OPERATOR

DATE 09/05/90

10001
PATENT OFFICE

37

SAMPLE Regm 4C - Room T (Swim)

26

88-7, 1612

SPECTRASET MODE

ST-RELE BEAM
FIXED RESPONSE
AUTO SMOOTH

SCAN TIME
MINS

RESPONSE
2 3 0

cm⁻¹ EXP
4 0

% T EXP
BACK OFF

2.5 μ m

100

80

60

40

20

TRANSMITTANCE (%)

4000 cm^{-1}

3000

2000

1800

1400

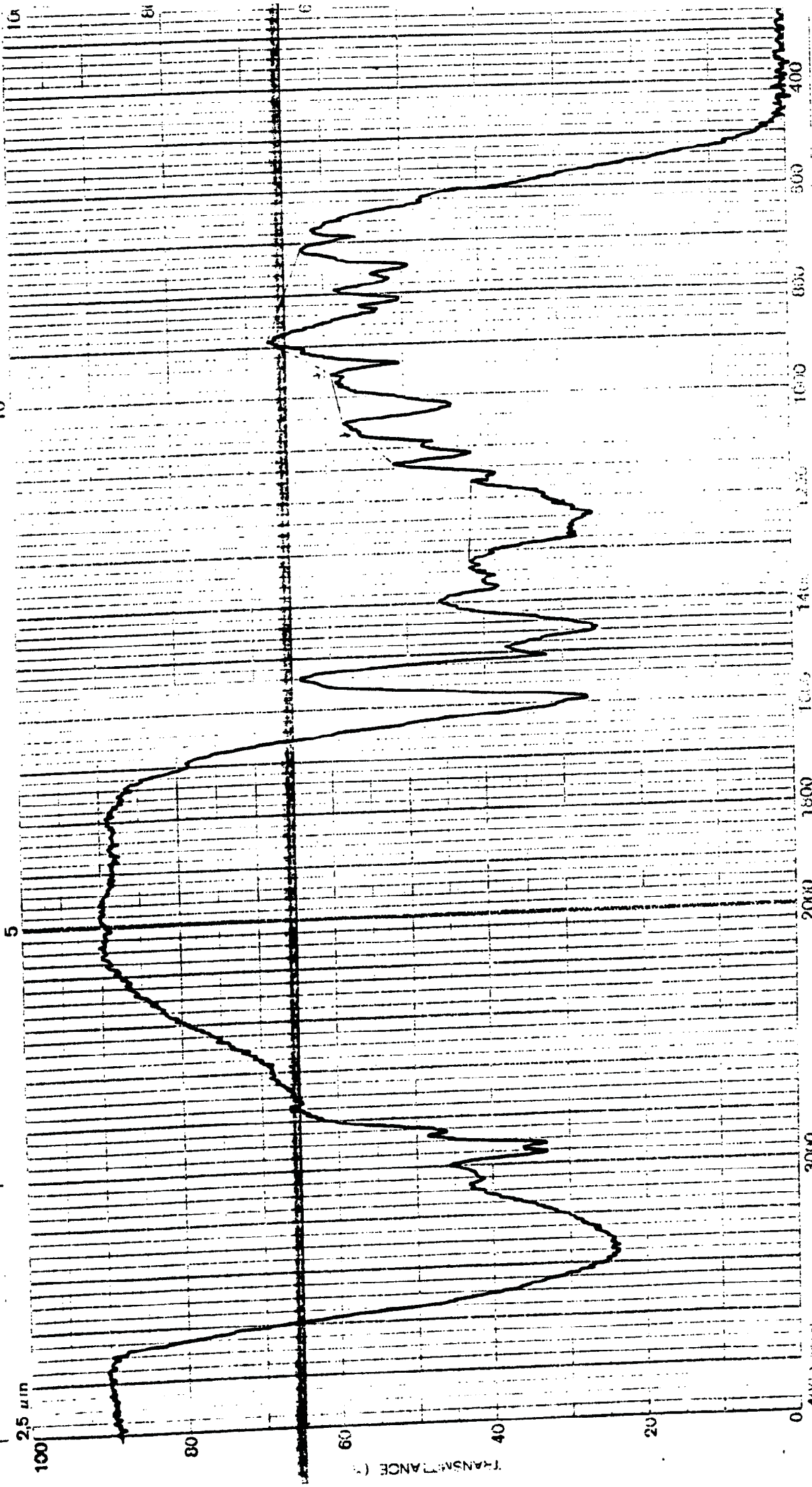
1200

1000

800

500

400



SAMPLE

Resin 4C-Room T (9,5min)

TECHNIQUE

PATH LENGTH

OPERATOR
DATE

2-2/8/90

27

% T LXI-
BACK OFF

cm⁻¹ EXP
4 SLITWIDTH

RESPONSE
2 3 0

1 0

SCAN TIME
MINS

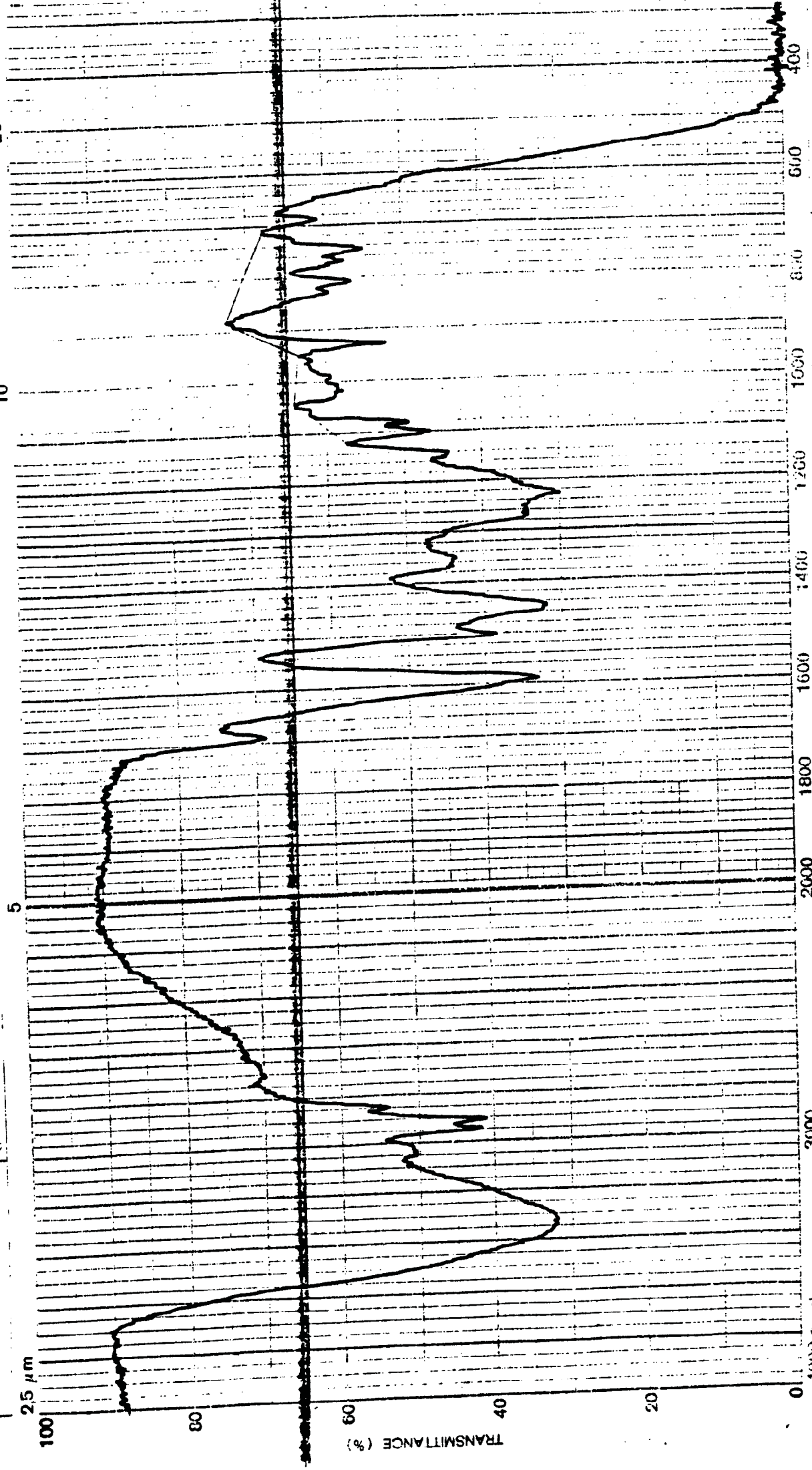
SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

0 0 0

SPECTRASET MODEL

20

10



OPERATOR
DATE 22/5/90

PATHLENGTH
CONCENTRATION

TECHNIQUE
REFERENCE

SAMPLE
Resin 4C - Room T (13.5 min)

28

PORTER, C. 11/2/90

% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

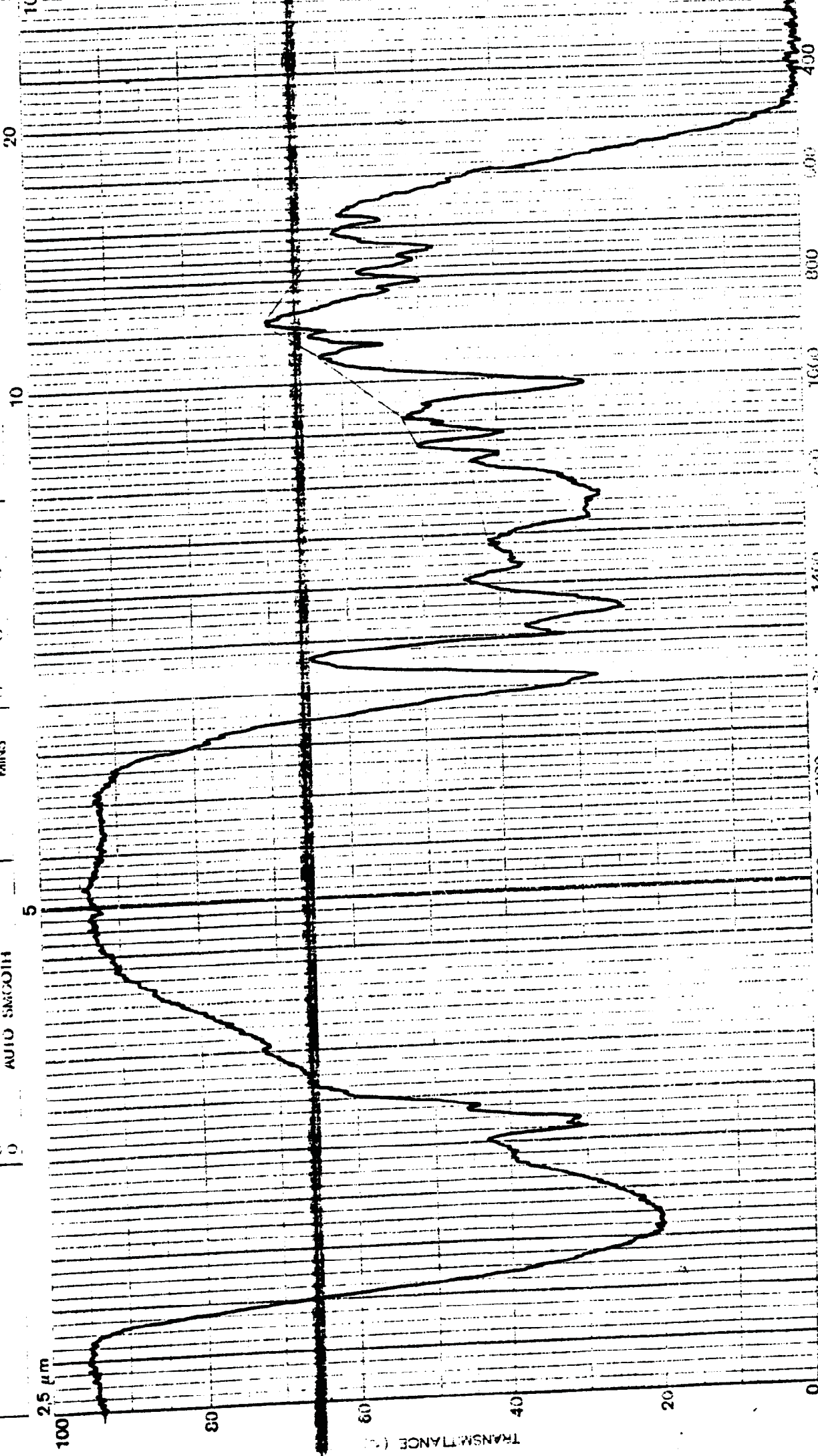
RESPONSE
2 3 0 0 0

SCAN TIME
MINS

SCALE FROM
FIXED RESPONSE
AUTO SMOOTH

SPECTRASET MODE
0 0 0

2.5 μ m



29

OPERATOR
DATE

PATHLENGTH
CORRECTION

TECHNIQUE
REFERENCE

SAMPLE
Resin 4c-Ram T (28mln)

CORRECTION

REFERENCE

SAMPLE

% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

RESPONSE
2 3

SCAN TIME
MINS

SINGLE BEAM
FIND RESPONSE
AUTO SMOOTH

SPECTRUMSET MODE

0 0 0

2.5 μ m

100

80

60

40

20

0

TRANSMITTANCE (%)

100

80

60

40

20

0

100

80

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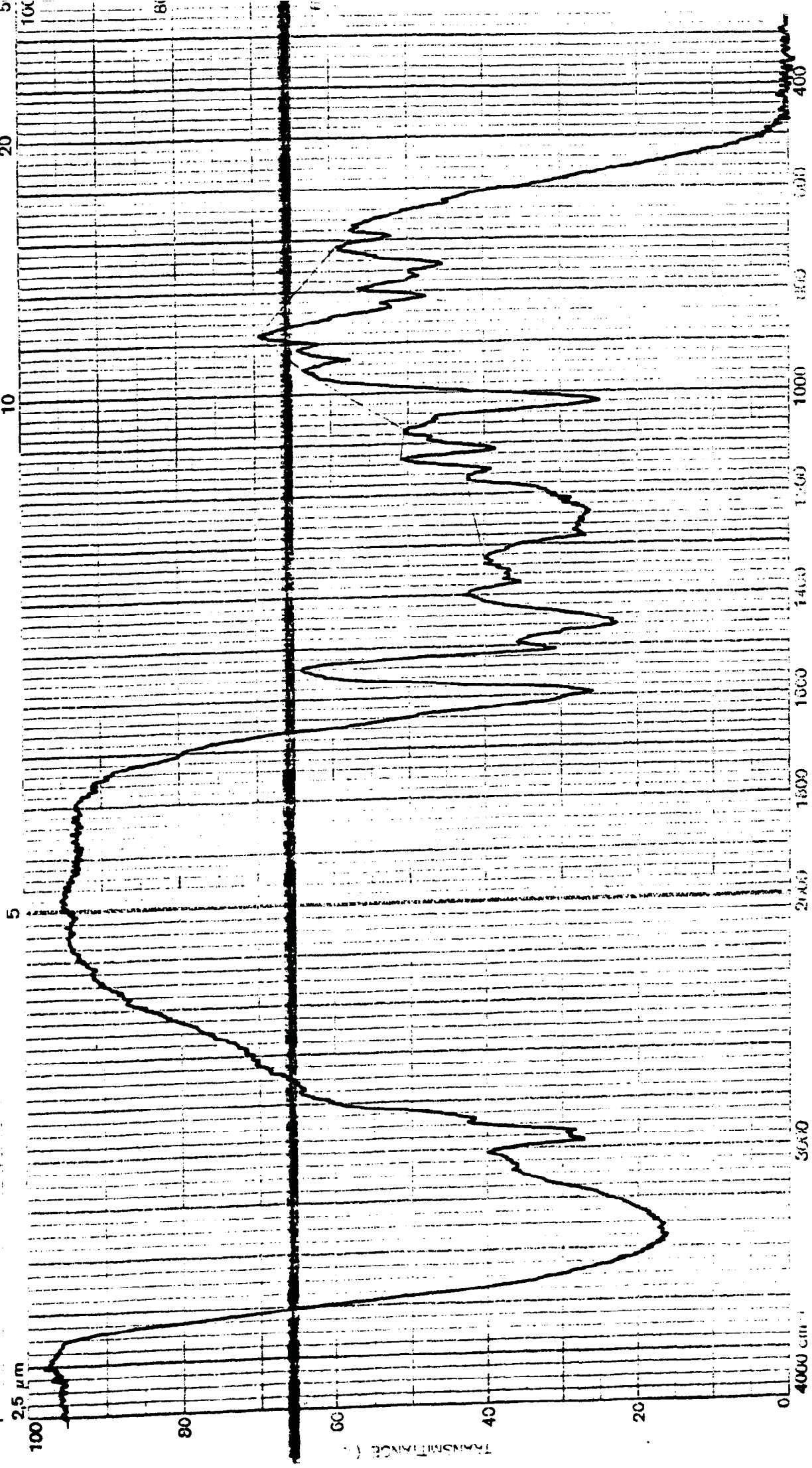
60

40

20

0

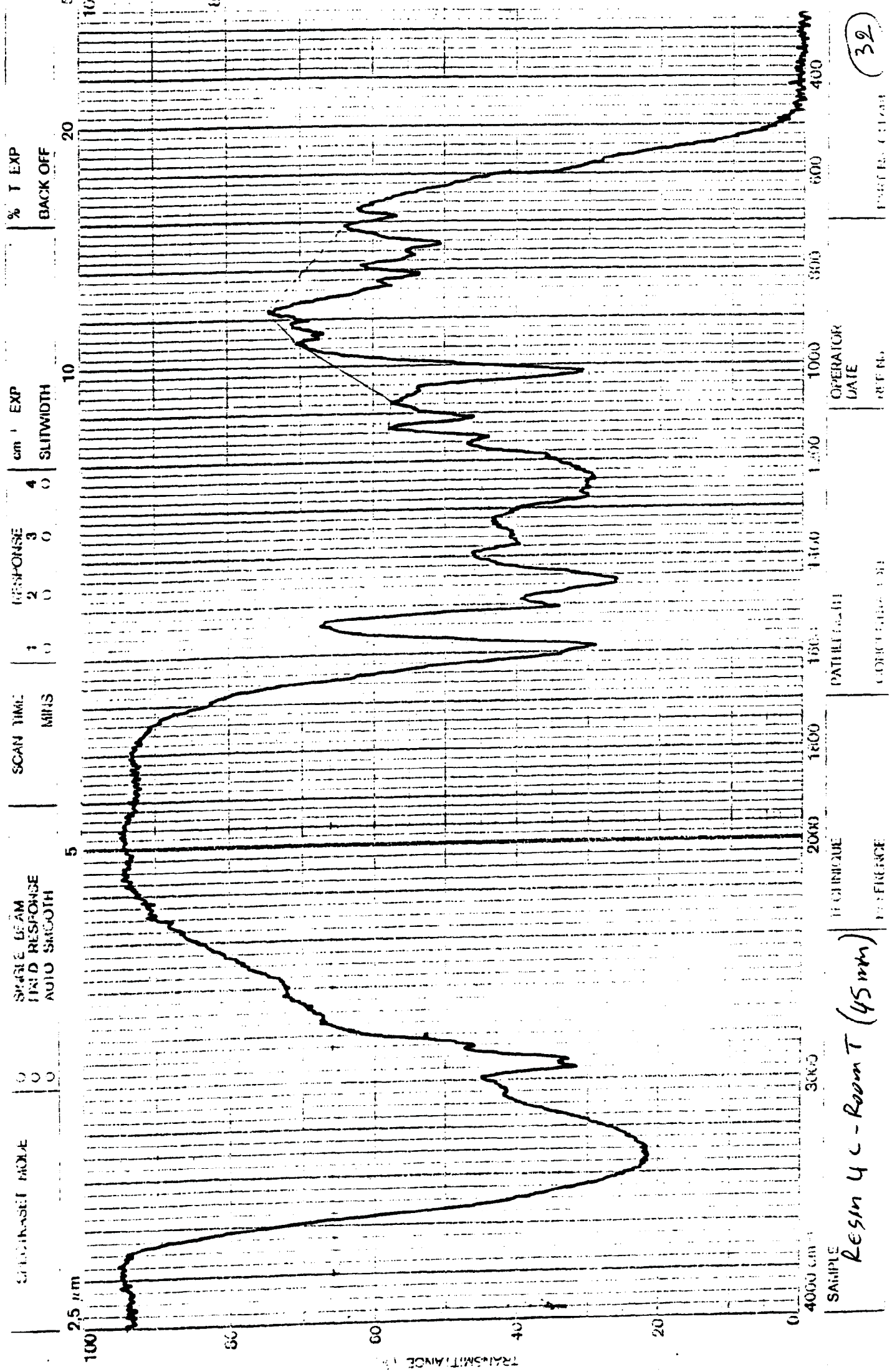
SPECTRASET MODE ☐ SINGLE BEAM ☐ RESPONSE ☐ AUTO SMOOTH ☐ SCAN TIME ☐ MINS ☐ CM⁻¹ EXP ☐ SLITWIDTH ☐ % I LXP ☐ BACK OFF ☐



SAMPLE *Resin HC - Eon T (37min)*
 TECHNIQUE ☐ REFLECTANCE ☐

PATHLENGTH ☐ CORRECTION ☐

OPERATOR ☐
 DATE ☐



% T EXP
BACK OFF

cm¹ CAP
SLITWIDTH

RESPONSE
2 3 0

SCAN TIME
MINS

SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

SPECTRASET MODE

0 0 0

33

OPERATOR
DATE

PATHLENGTH

TECHNIQUE

SAMPLE

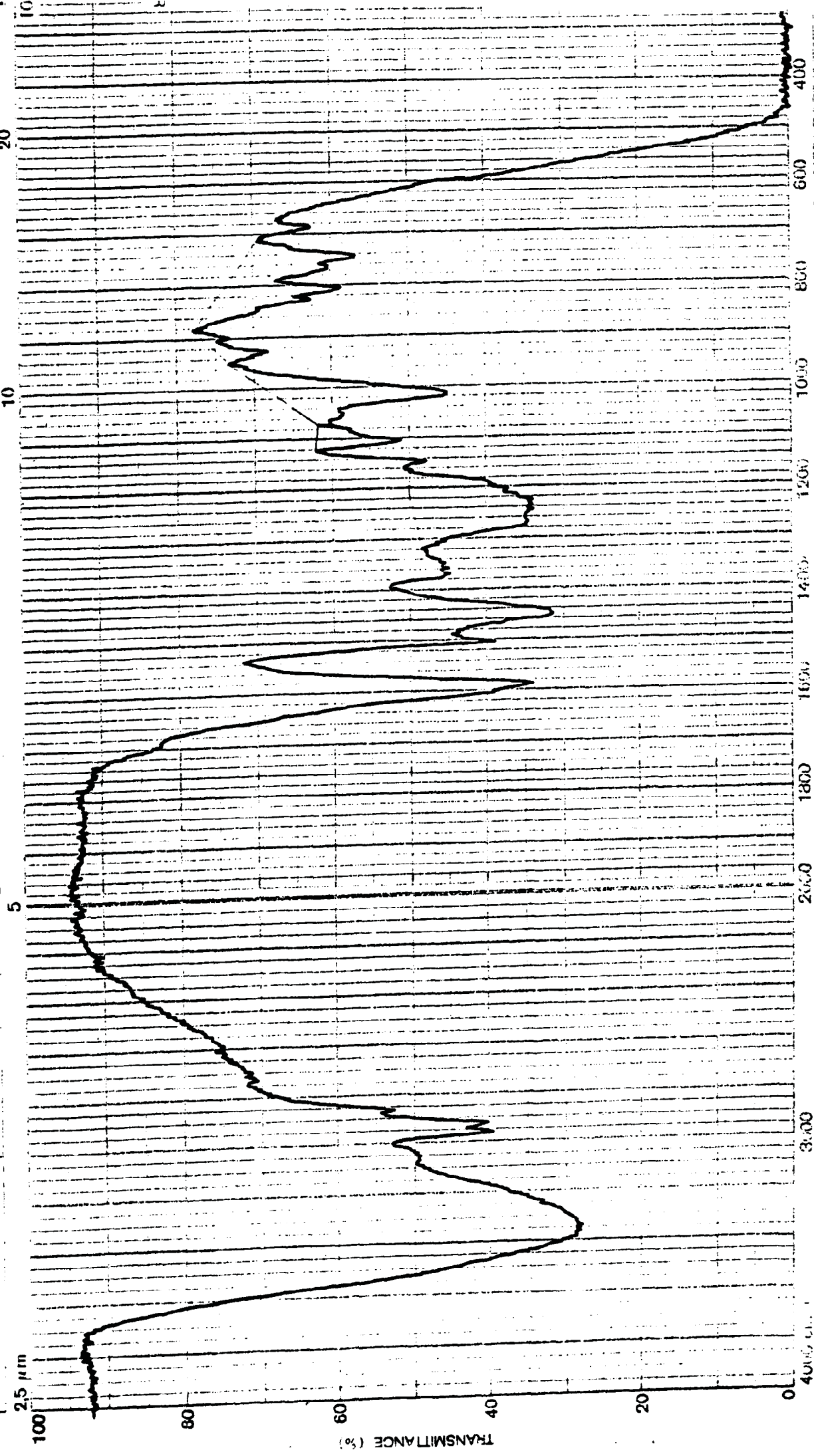
Resin 4C-Reson T (49 min)

TECHNIQUE

PATHLENGTH

OPERATOR
DATE

33



PART NO. 6-11749

COMP. INFORMATION

PATHLENGTH

SAMPLE

W T EXP
BACK OFF

CM 1 EXP
SLOT WIDTH

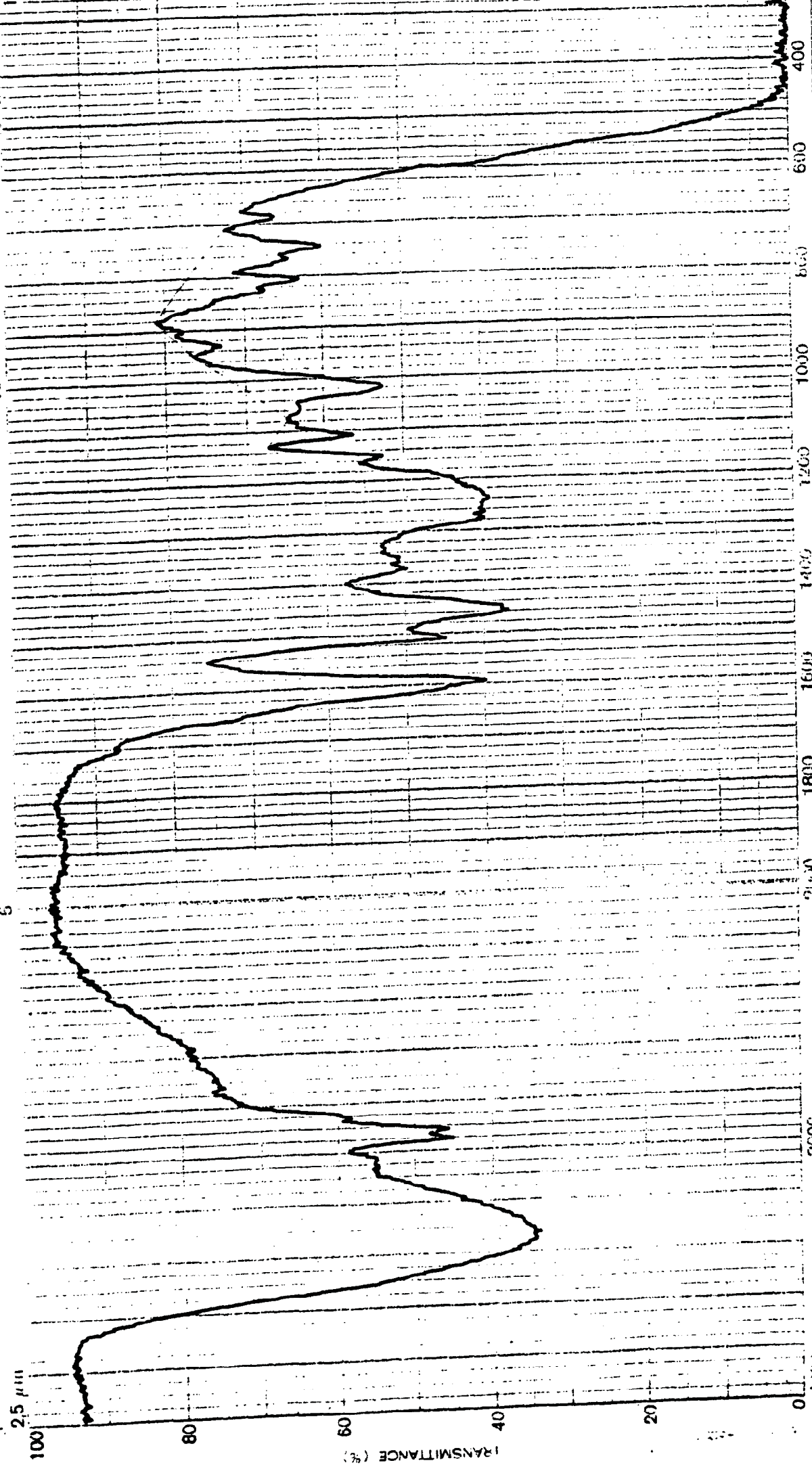
RES-CURSE
2 0 0

SCAN TIME
NRCS

SINGLE BEAM
FLAT RESPONSE
AUTO ZERO

0 0 0

STRETCH 1.000



OPERATOR
DATE

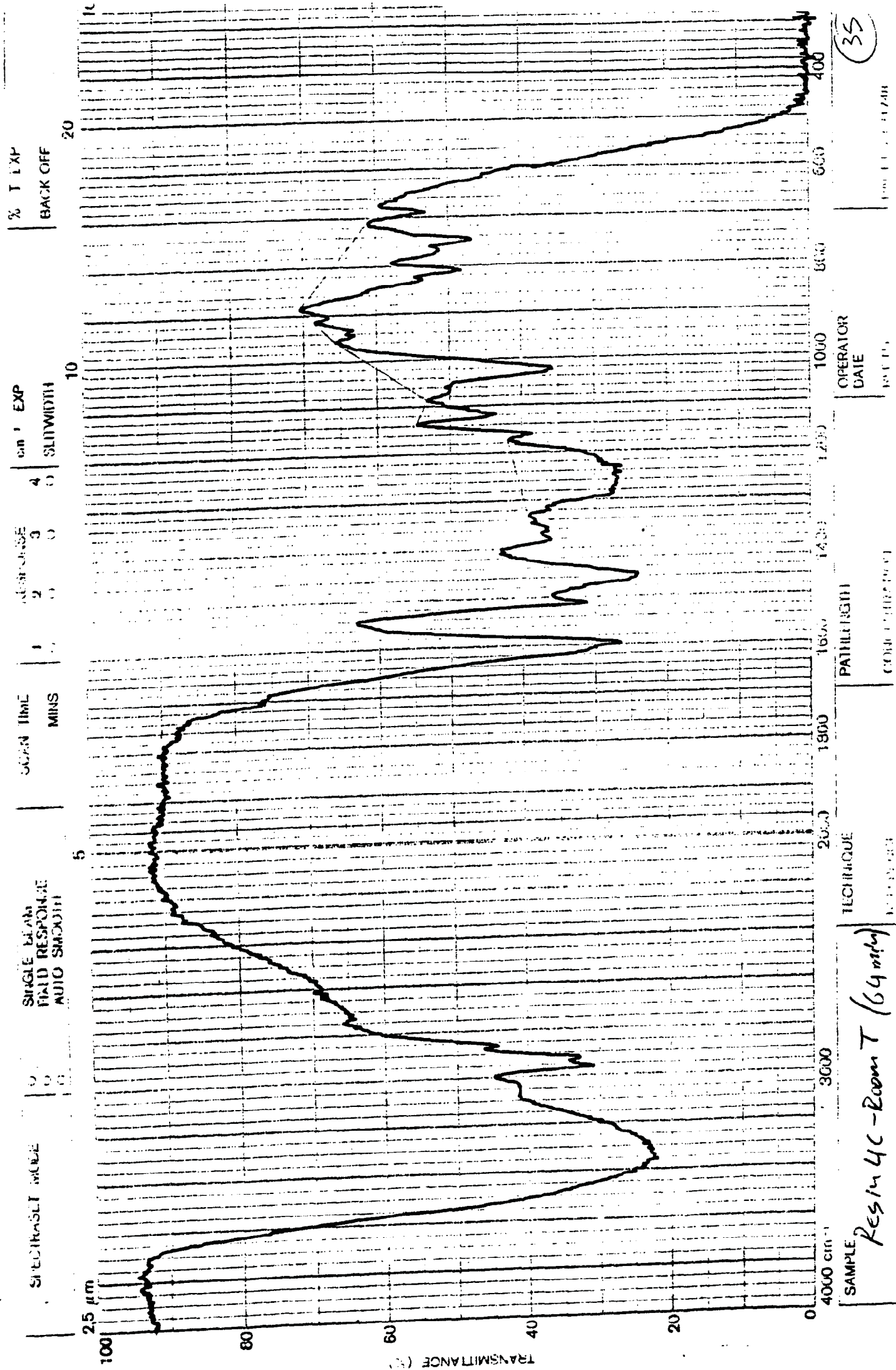
PATIENT/GH

TECHNIQUE

SAMPLE: Ker, in 4C-Room T(59mm)

34

100-100-100-100-100



% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

RESPONSE

1

SCAN TIME
MIN

SINGLE BEAM
FIND RESPONSE
AUTO SMOOTH

SYNCHROSET MODE

20

10

5

25 μ m

100

80

60

40

20

0

TRANSMITTANCE (%)

4000 cm⁻¹

3000

2000

1800

1600

1400

1200

1000

800

600

400

SAMPLE

Resin 4C - Room T (70min)

TECHNIQUE

PATHLENGTH

OPERATOR
DATE

COPIES

36

% T EXP
BACK OFF

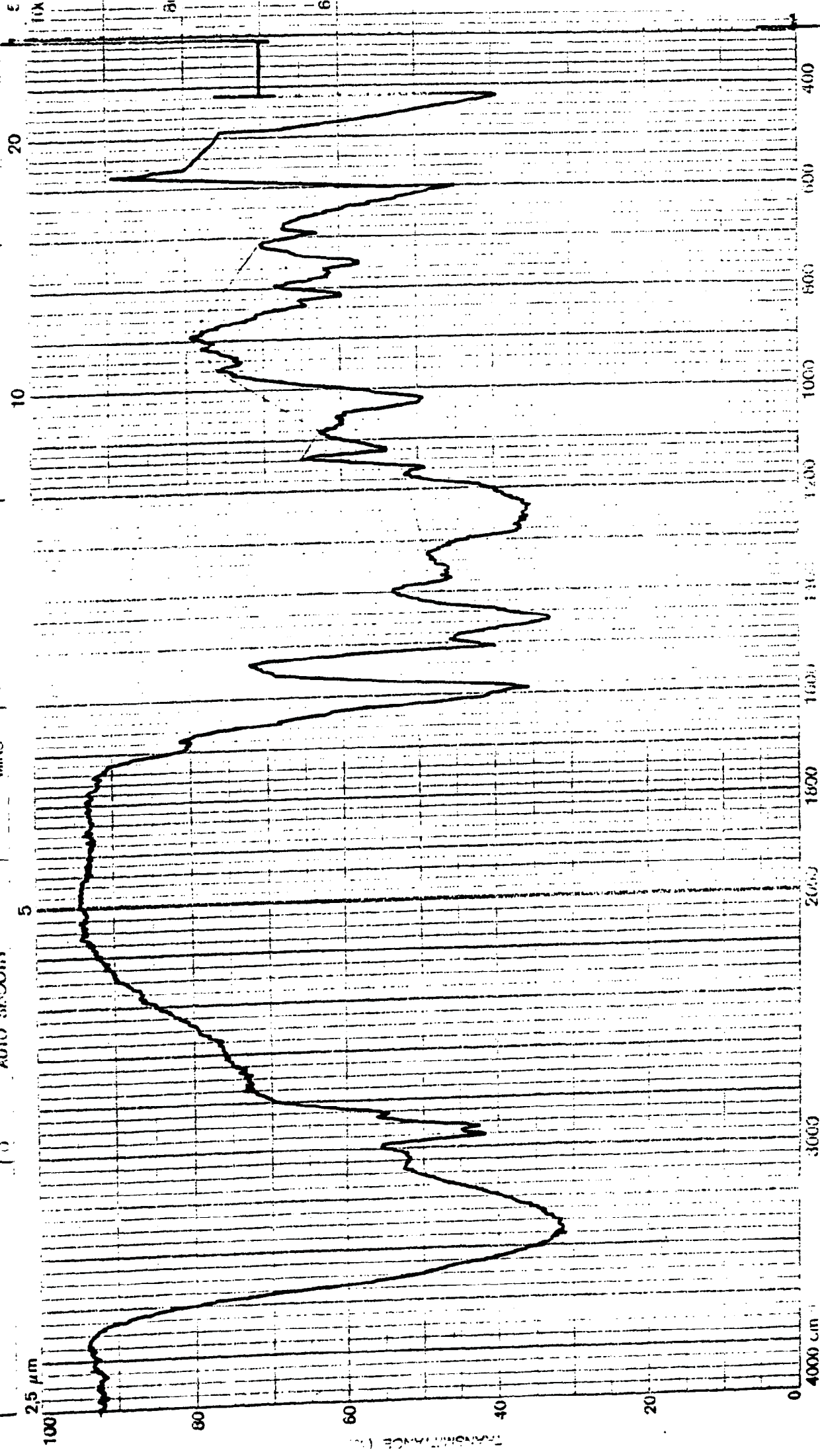
cm¹ EXP
SLITWIDTH

RESPONSE
2 0 0

SCAN TIME
MINS

SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

SPECTRASEL NAME



OPERATOR
DATE

PATRELL
CORRECTION

ELECTRIC
REFERENCE

SAMPLE
Resin 4(- Room T (80 min)

37

PART NO. 611741

3 T EXP
BACK OFF

4 0 SATURATED

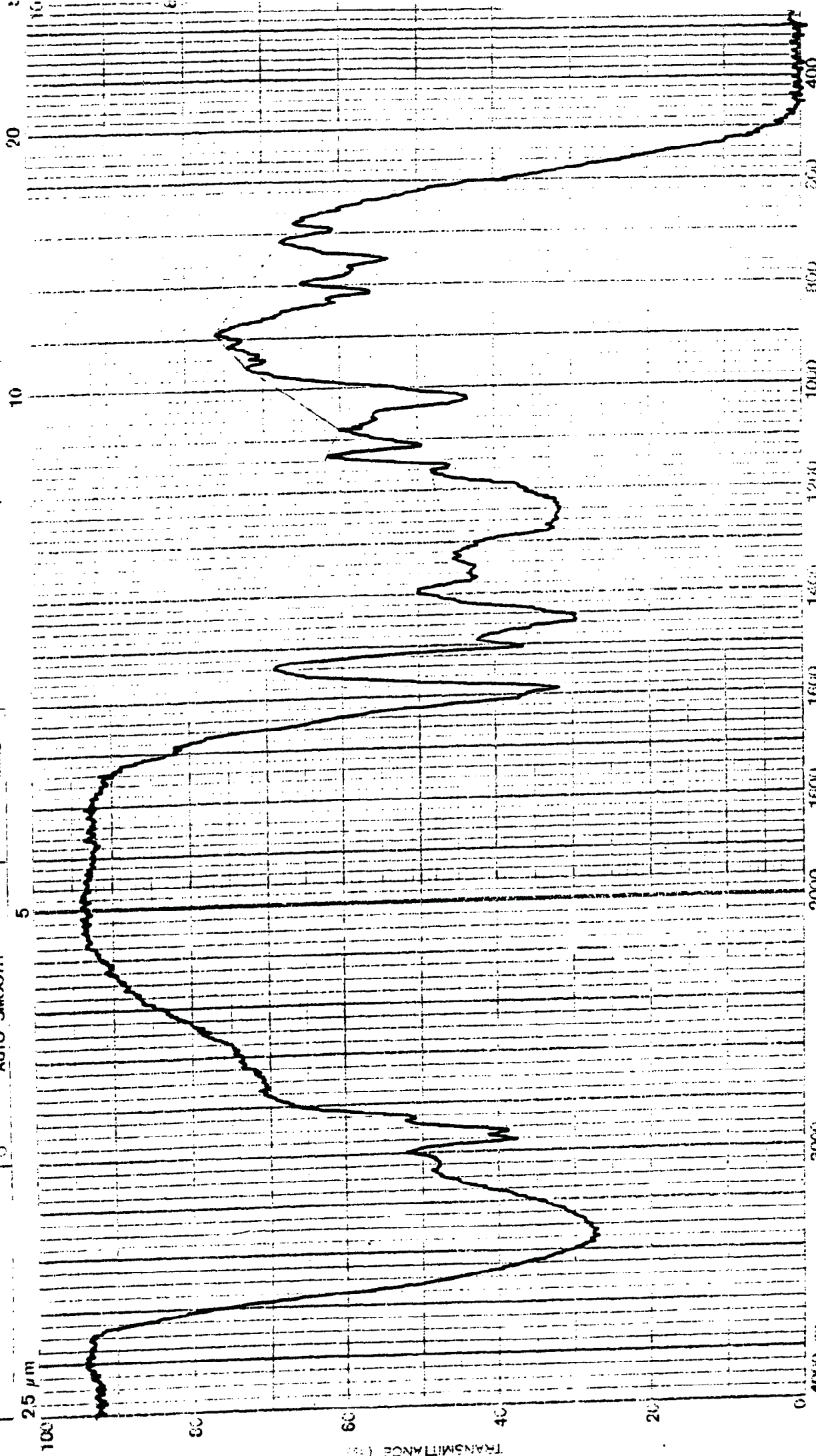
2 0 0 0

1 0 MINS

SINGLE SWEEP
UNITED RESPONSE
AUTO SMOOTH

0 0 0

SPECTRUM INQUIRY



38

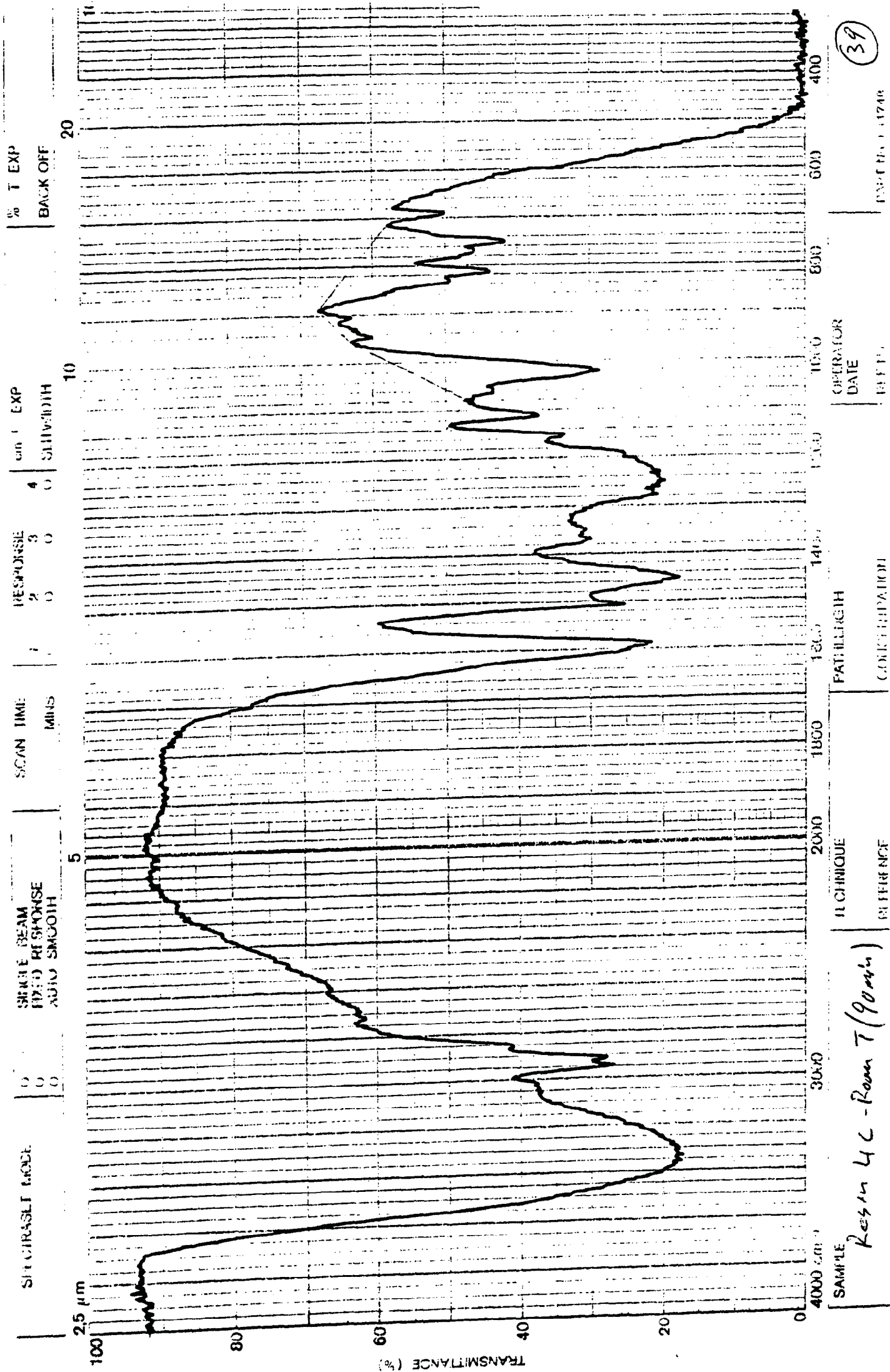
DATE

OPERATOR
DATE

PATIENT LENGTH
CORRECTION

TECHNIQUE
REFERENCE

SAMPLE
Resin 46 - Down T (85 min)



% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

RESPONSE
2 3 0

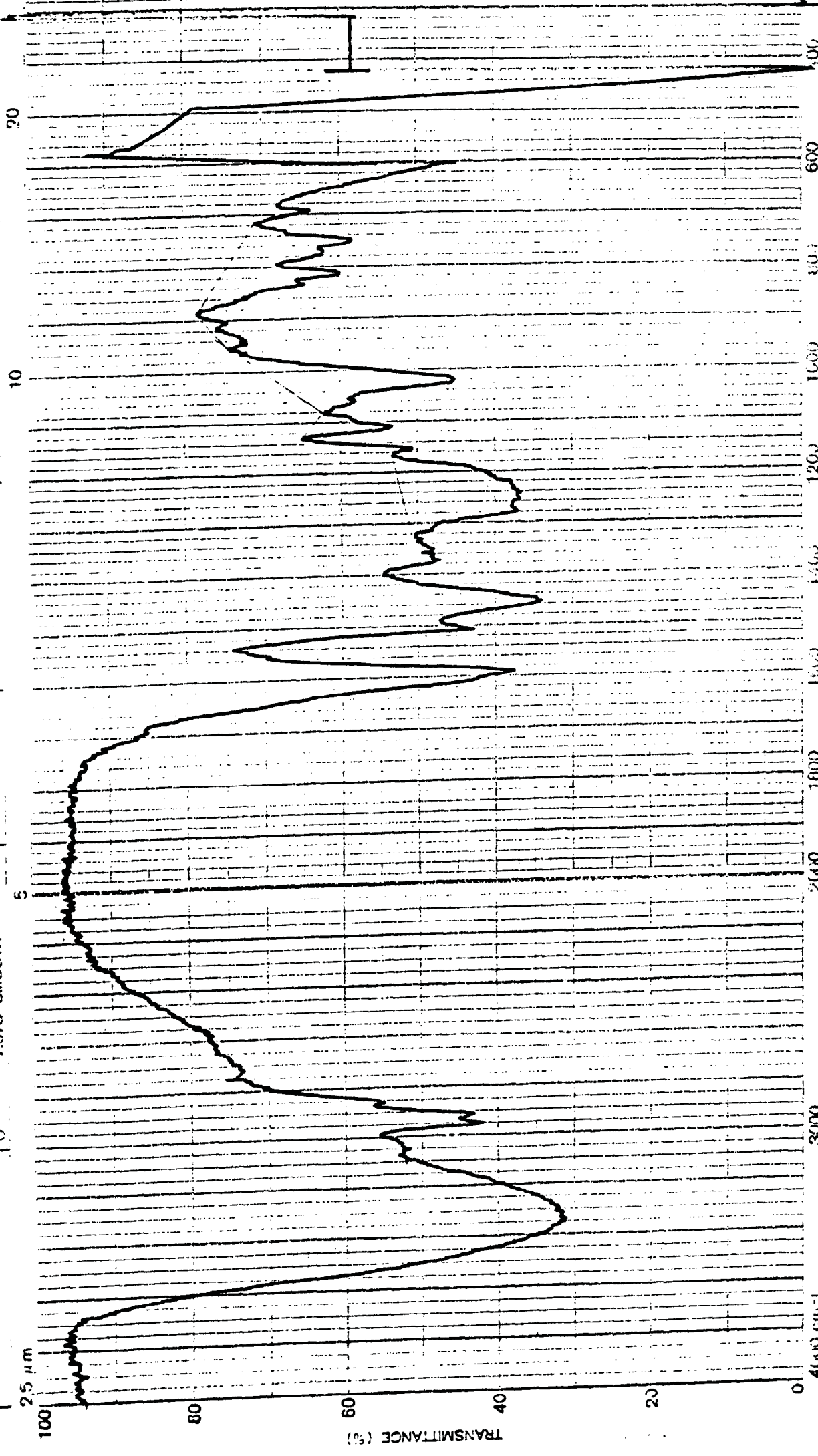
1 0 0

SCAN TIME
MINS

SINGLE BEAM
HAND RESPONSE
AUTO SMOOTH

0 0 0

SPECTRASEL MODE



| | | | | |
|--|----------------------|-----------------------------|-----------------------------|-----------------------------|
| SAMPLE
<i>Resin 46 - Room 7 (A Smith)</i> | TECHNIQUE
DIFFUSE | PATHLENGTH
CODE UNRAIDED | OPERATOR
DATE
10/1/75 | PART No 011750
40 |
| | | | | |

% T EXP
BACK OFF

cm⁻¹ EXP
SLITWIDTH

RESPONSE
2 3 0

SCAN TIME
MINS

SINGLE BEAM
FIXED RESPONSE
AUTO SMOOTH

(41)

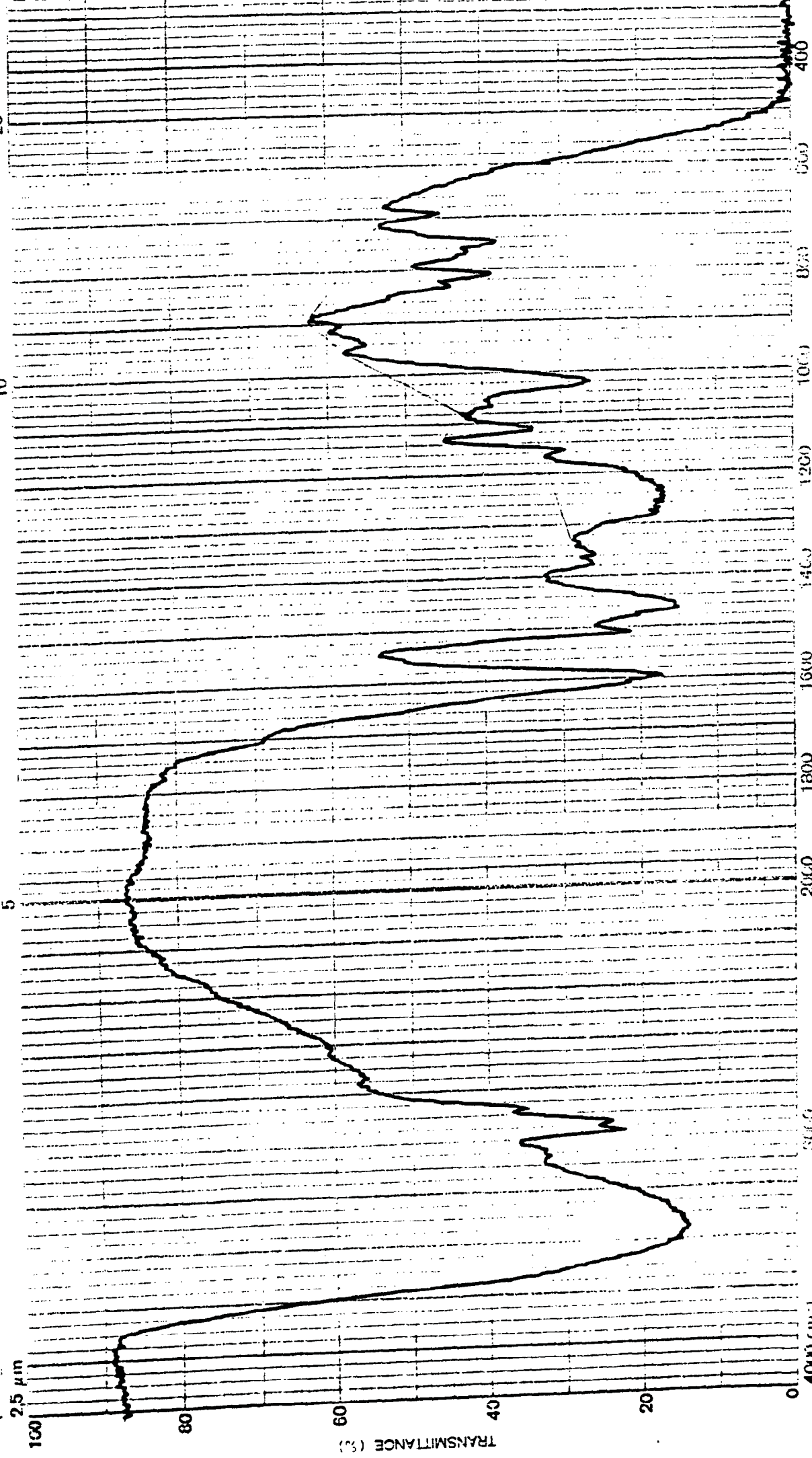
OPERATOR
DATE

PATHLENGTH
CM

TECHNIQUE
DATE OF RUN

SAMPLE Resin 4C-Room T (100 mm)

SILICA-TRACED LAMINATE



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