FIGURES

Figure I	Composite electron capture chromatograms - demonstrating overlap regions for technical Aroclor products.
Figure II	Aroclor 1221 electron capture reference chromatogram at analysis conditions.
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Figure VII	Support Coated Open Tubular flame ionization chromatogram - demonstrating the complexity of the isomer distribution of Aroclor 1242.
Figure VIII	Typical alteration of Aroclor 1242 observed after metabolism and/or excretion by Albino rats.
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Figure XI	Typical alteration of Aroclor 1242 after metabolism and/or excretion by White Leghorn chickens.
Figures XII - XIX	Electron capture chromatograms of some commercial pesticide mixtures before and after treatment on XE-60 and DC-200.

FIGURE I

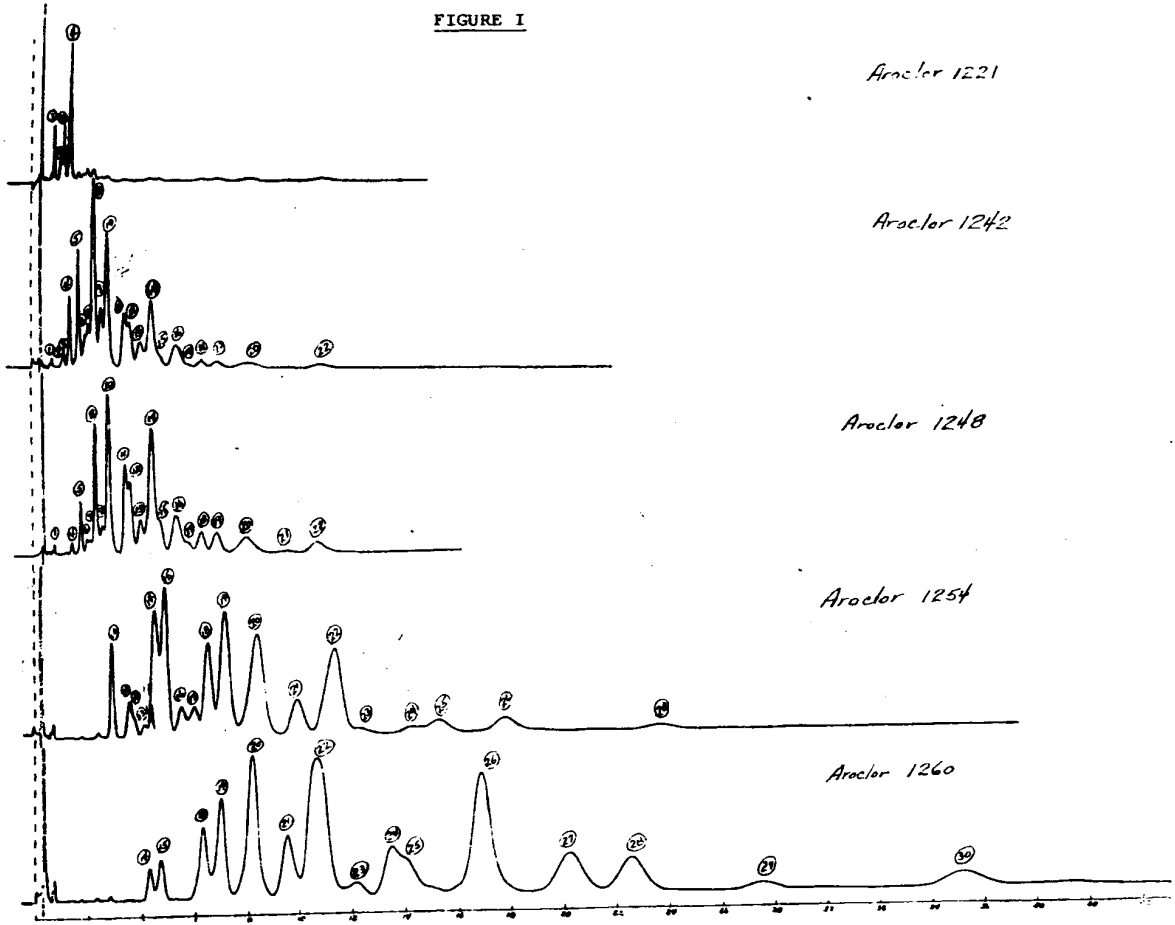
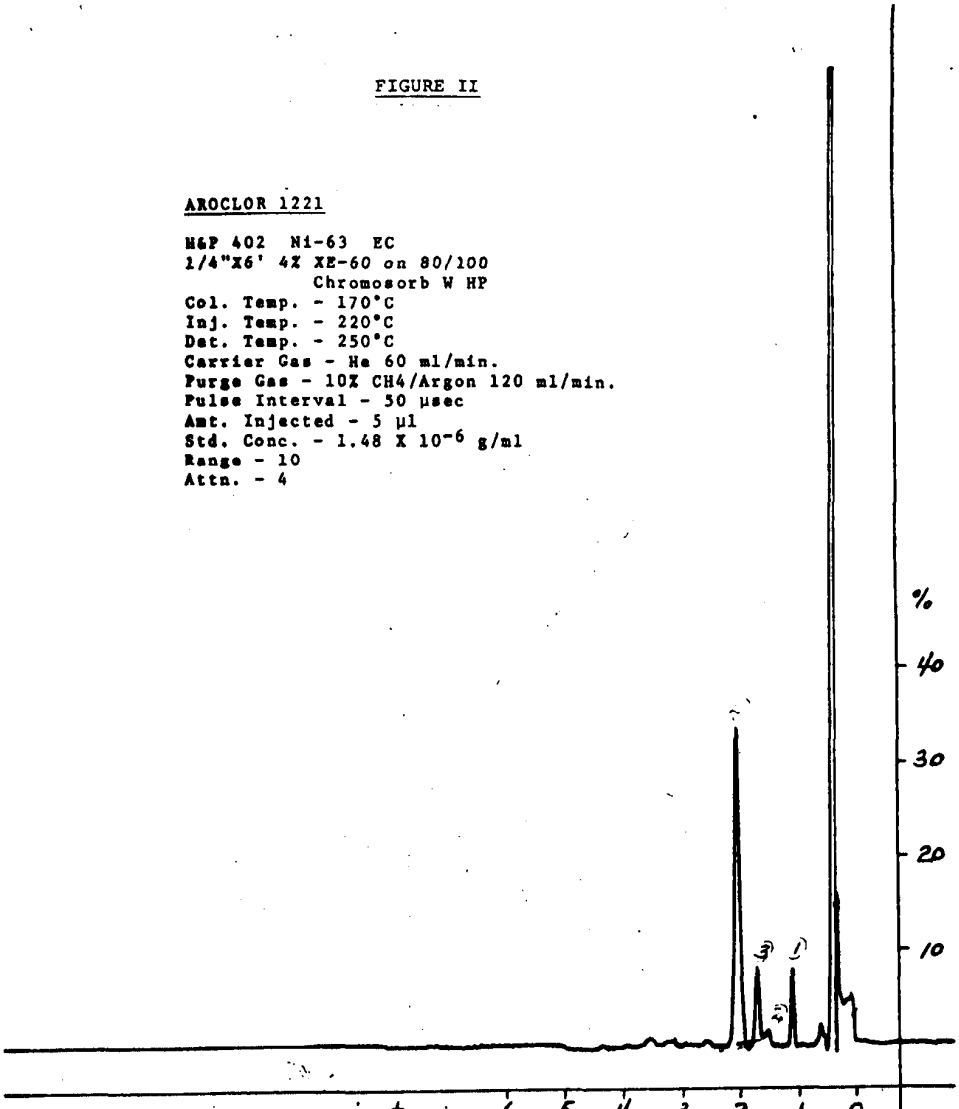

Aroclor 1221
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260
MONS 096409

FIGURE II

AROCLOR 1221

H&P 402 Ni-63 EC
1/4"X6' 4% XE-60 on 80/100
Chromosorb W HP
Col. Temp. - 170°C
Inj. Temp. - 220°C
Det. Temp. - 250°C
Carrier Gas - He 60 ml/min.
Purge Gas - 10% CH4/Argon 120 ml/min.
Pulse Interval - 50 µsec
Amt. Injected - 5 µl
Std. Conc. - 1.48 X 10^{-6} g/ml
Range - 10
Attn. - 4



MONS 096410

FIGURE III

AROCLOR 1242

H&P 402 Ni-63 EC
1/4"X6' 4% XE-60 on 80/100
Chromosorb W HP
Col. Temp. - 190°C
Inj. Temp. - 220°C
Det. Temp. - 250°C
Carrier Gas - He 60 ml/min.
Purge Gas - 10% CH4/Argon 120 ml/min.
Pulse Interval - 50 µsec
Amt. Injected - 5 µl
Std. Conc. - 1.03 X 10^{-6} g/ml
Range - 10
Attn. - 8

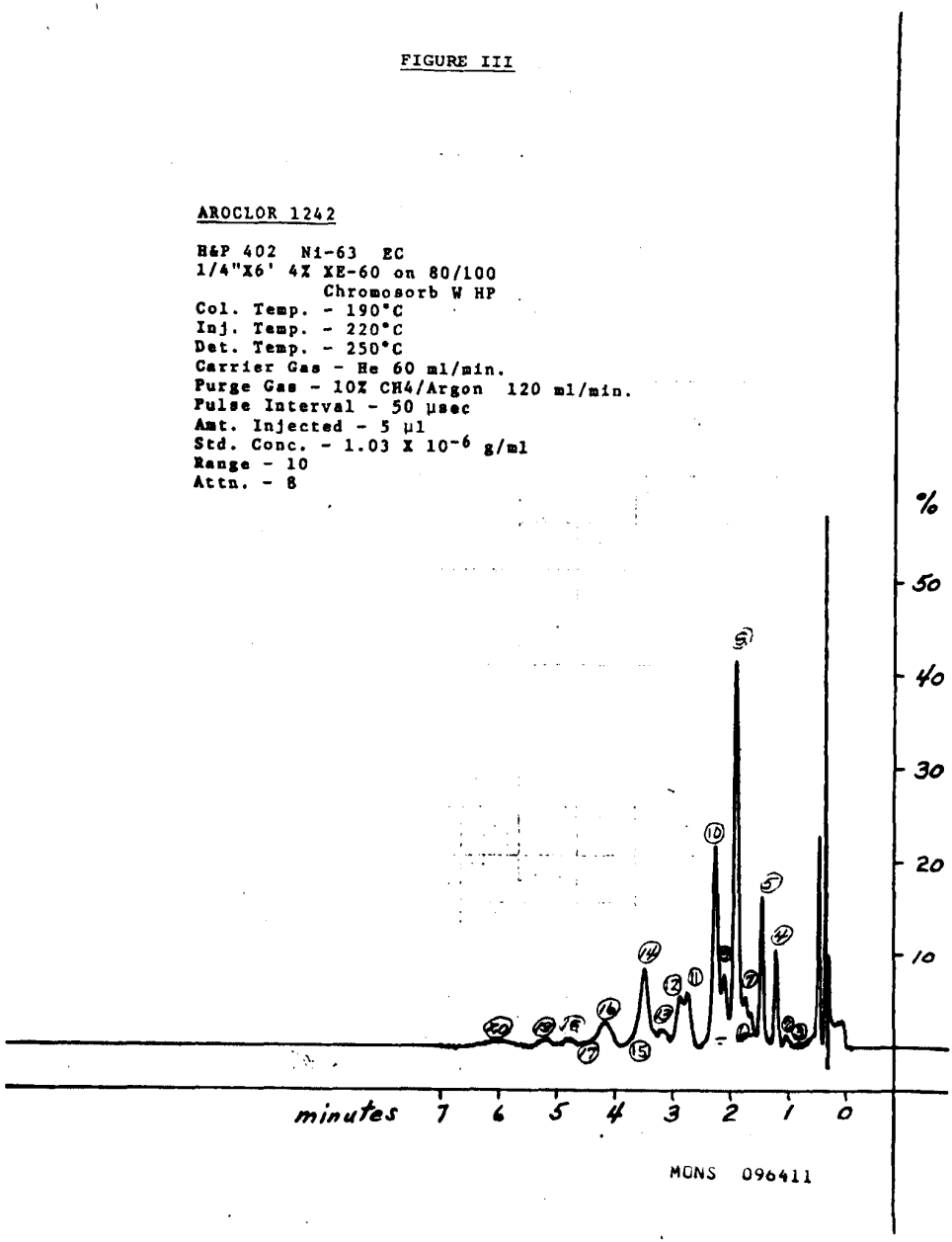


FIGURE IV

AROCLOR 1248

H&P 402 Ni-63 EC
1/4"X6' 4% XE-60 on 80/100
Chromosorb W HP
Col. Temp. - 190°C
Inj. Temp. - 220°C
Det. Temp. - 250°C
Carrier Gas - He 60 ml/min.
Purge Gas - 10% CH4/Argon 120 ml/min.
Pulse Interval - 50 µsec
Amt. Injected - 5 µl
Std. Conc. - 1.31 X 10^{-6} g/ml
Range - 10
Attn. - 4

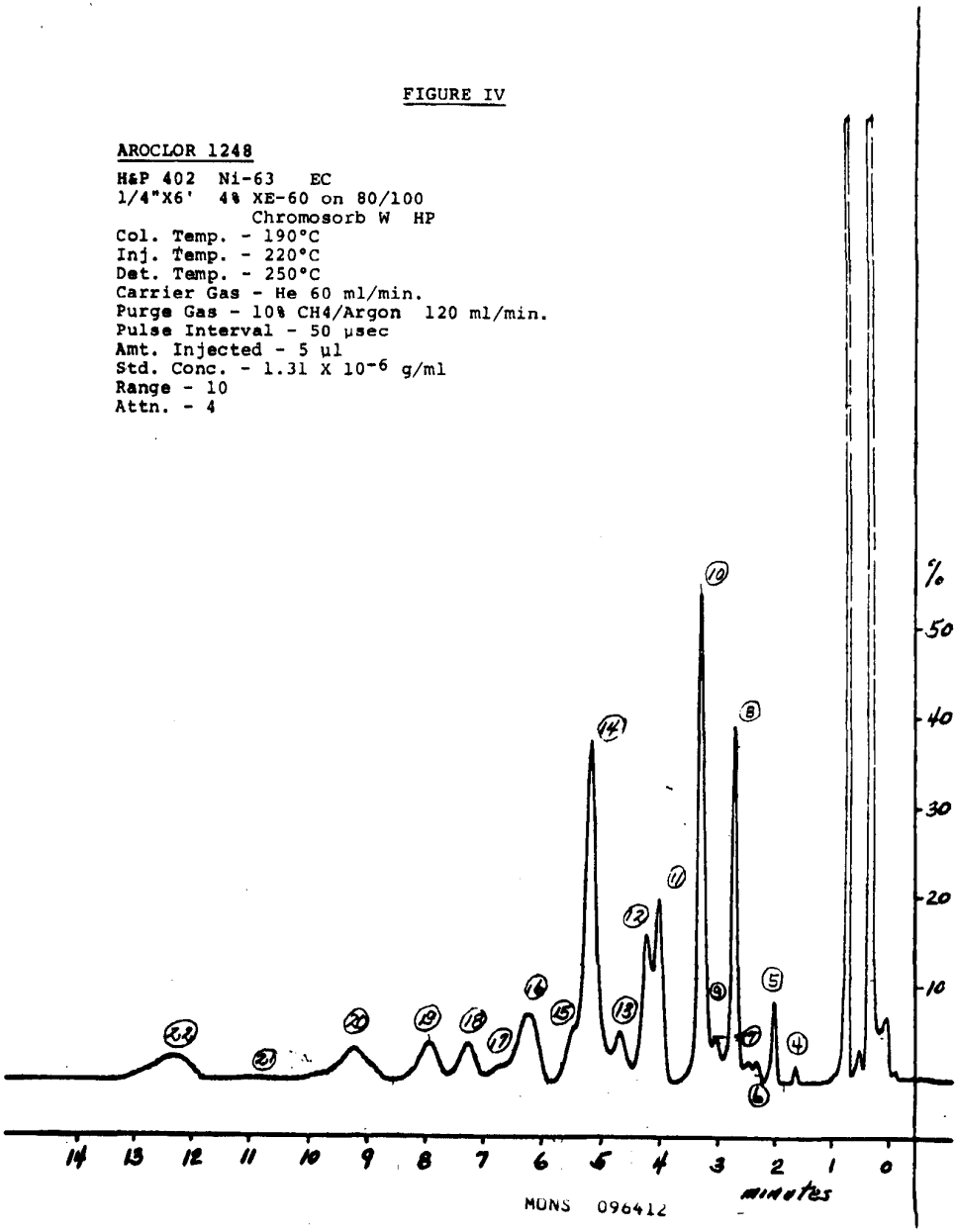
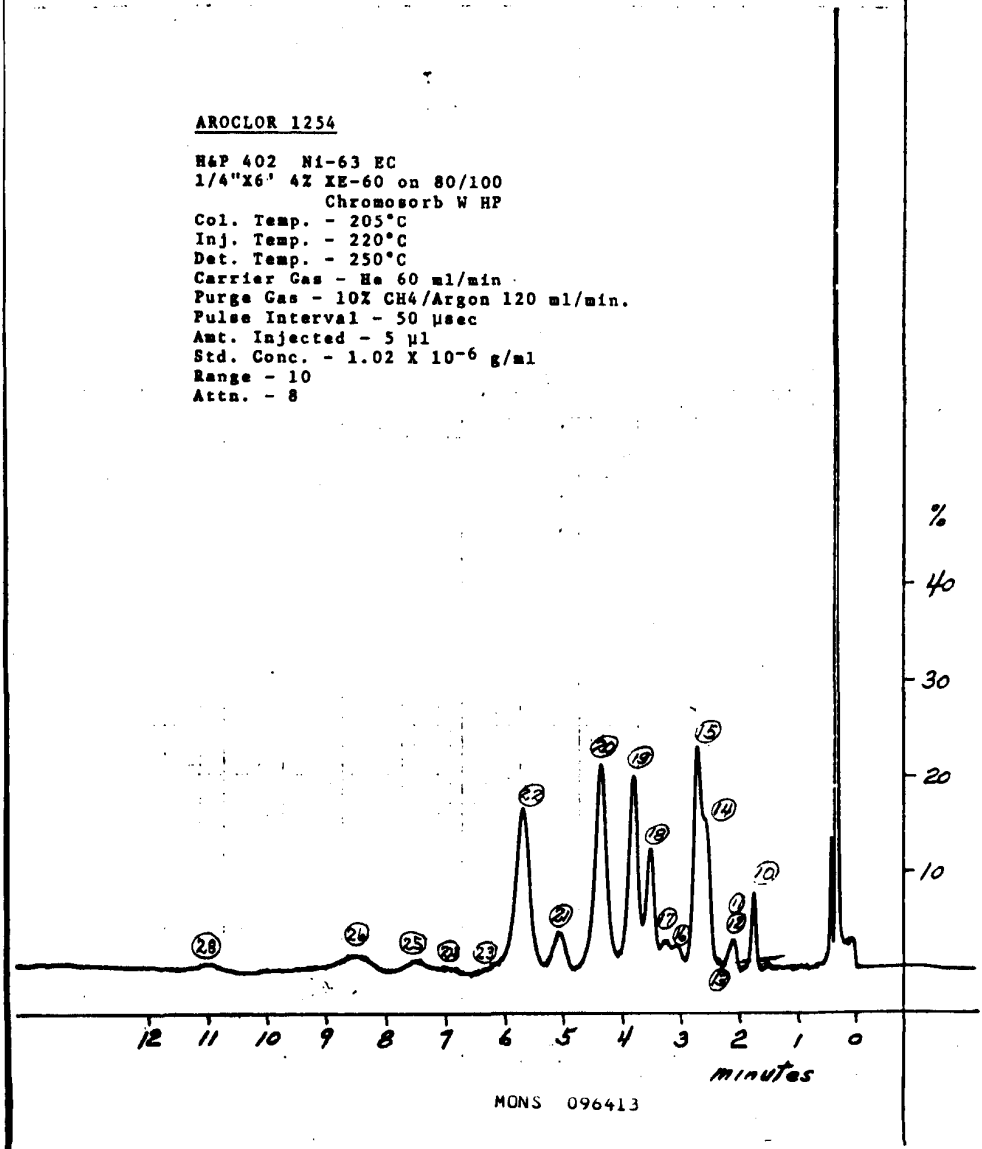


FIGURE V

AROCLOR 1254

H&P 402 Ni-63 EC
1/4"X6' 4% XE-60 on 80/100
Chromosorb W HP
Col. Temp. - 205°C
Inj. Temp. - 220°C
Det. Temp. - 250°C
Carrier Gas - He 60 ml/min
Purge Gas - 10% CH4/Argon 120 ml/min.
Pulse Interval - 50 µsec
Amt. Injected - 5 µl
Std. Conc. - 1.02 X 10^{-6} g/ml
Range - 10
Attn. - 8

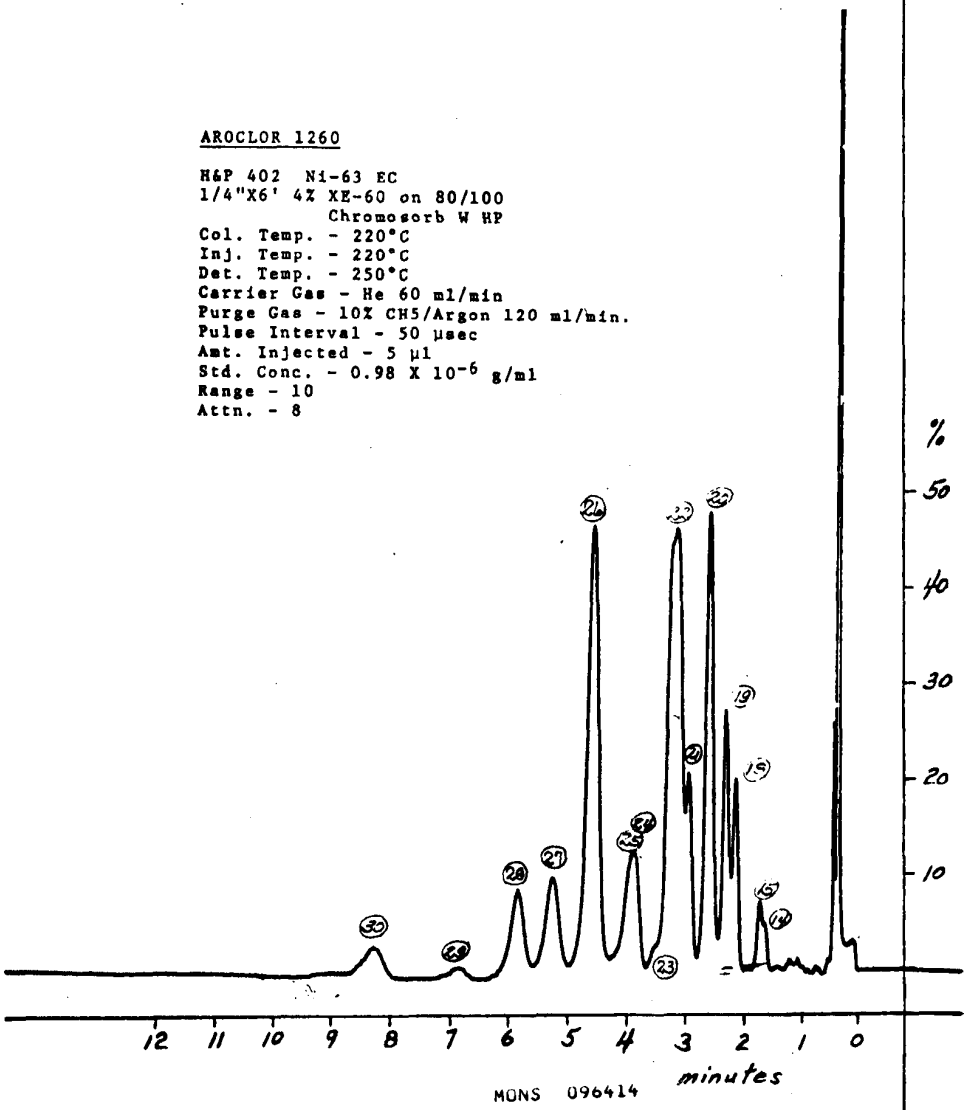


MONS 096413

FIGURE VI

AROCLOR 1260

H&P 402 Ni-63 EC
1/4"X6' 4% XE-60 on 80/100
Chromosorb W HP
Col. Temp. - 220°C
Inj. Temp. - 220°C
Det. Temp. - 250°C
Carrier Gas - He 60 ml/min
Purge Gas - 10% CH5/Argon 120 ml/min.
Pulse Interval - 50 µsec
Amt. Injected - 5 µl
Std. Conc. - 0.98 X 10^{-6} g/ml
Range - 10
Attn. - 8



MONS 096414

CHROMATOGRAPHIC CONDITIONS

FIGURE VII

Instrument: Perkin-Elmer Model 800

Type Detector: Flame Ionization

Column: 100' X 0.02" I.D. FFAP S.C.O.T. (Support Coated Open Tubular) Capillary (Perkin-Elmer Part No. 008-0804 for each 50' length)

Column Temperature: 230°C

Detector Block Temperature: 285°C

Injection Port Temperature: 330°C

Sample Volume Injected: 0.002 ml
Split 30 to 1

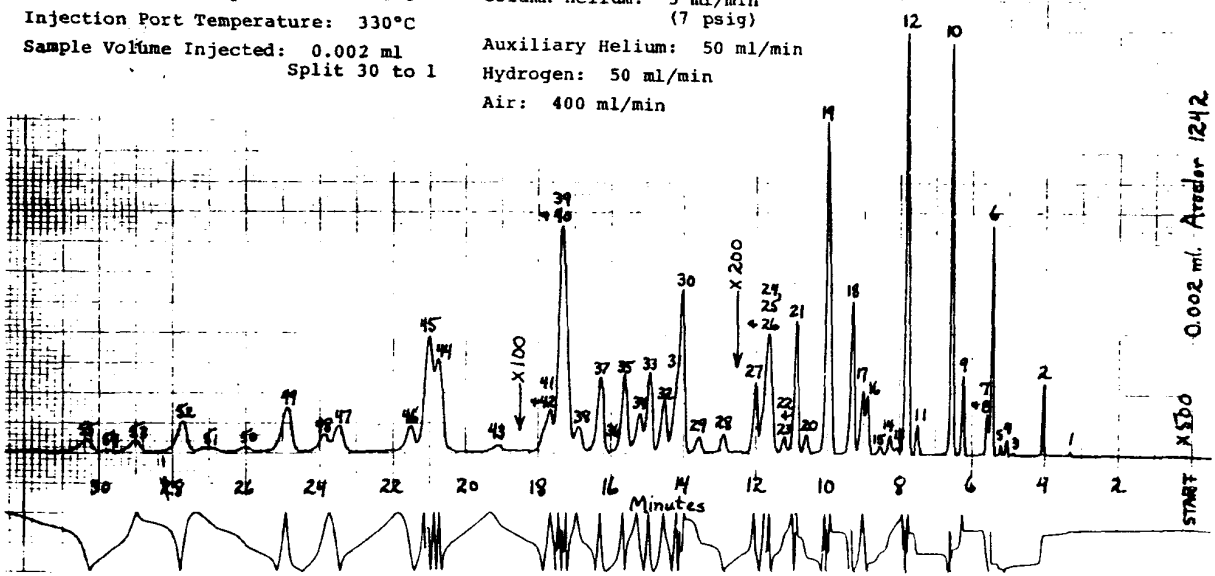
Flow Rates

Column Helium: 5 ml/min (7 psig)

Auxiliary Helium: 50 ml/min

Hydrogen: 50 ml/min

Air: 400 ml/min



MONS 096415

FIGURE VIII

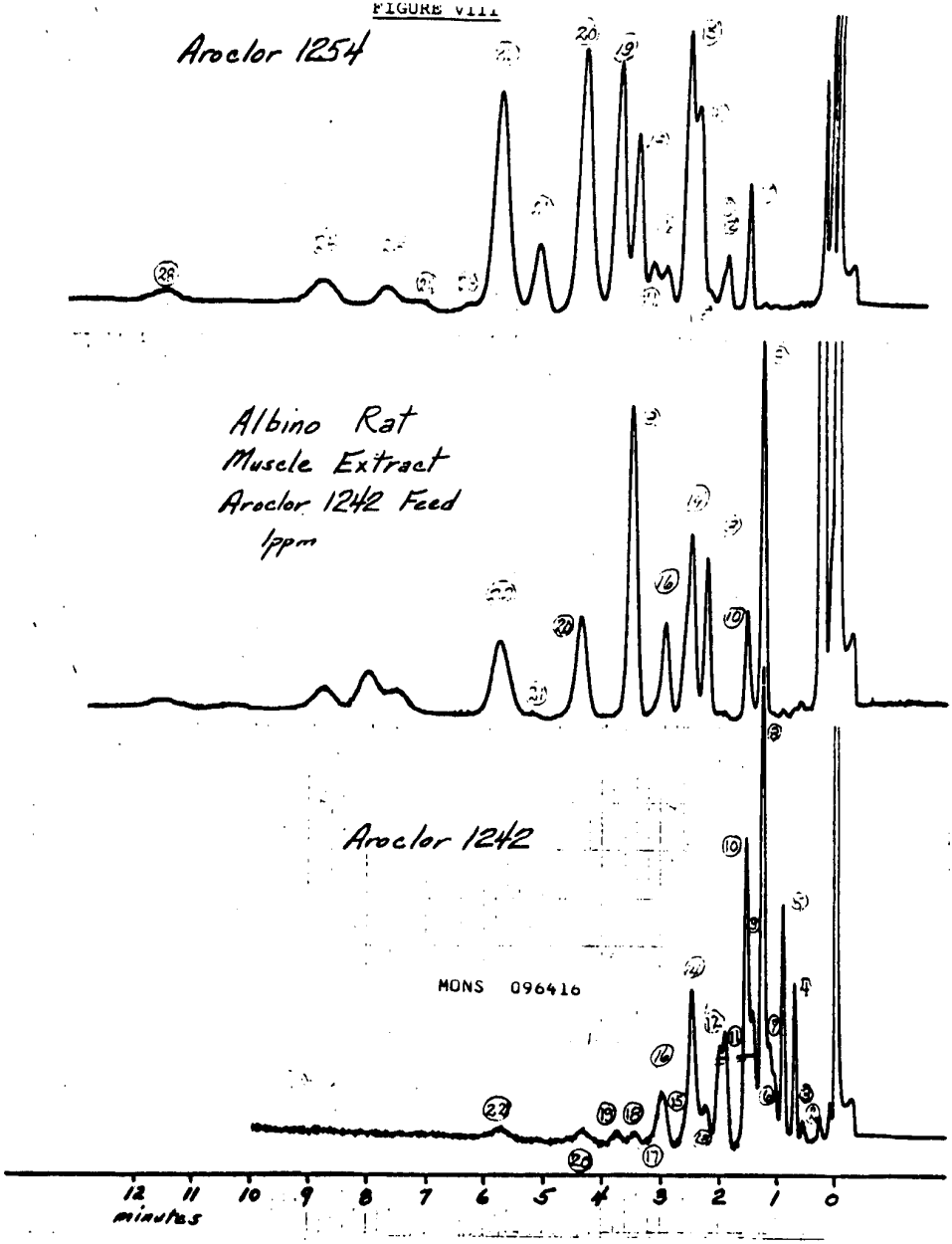
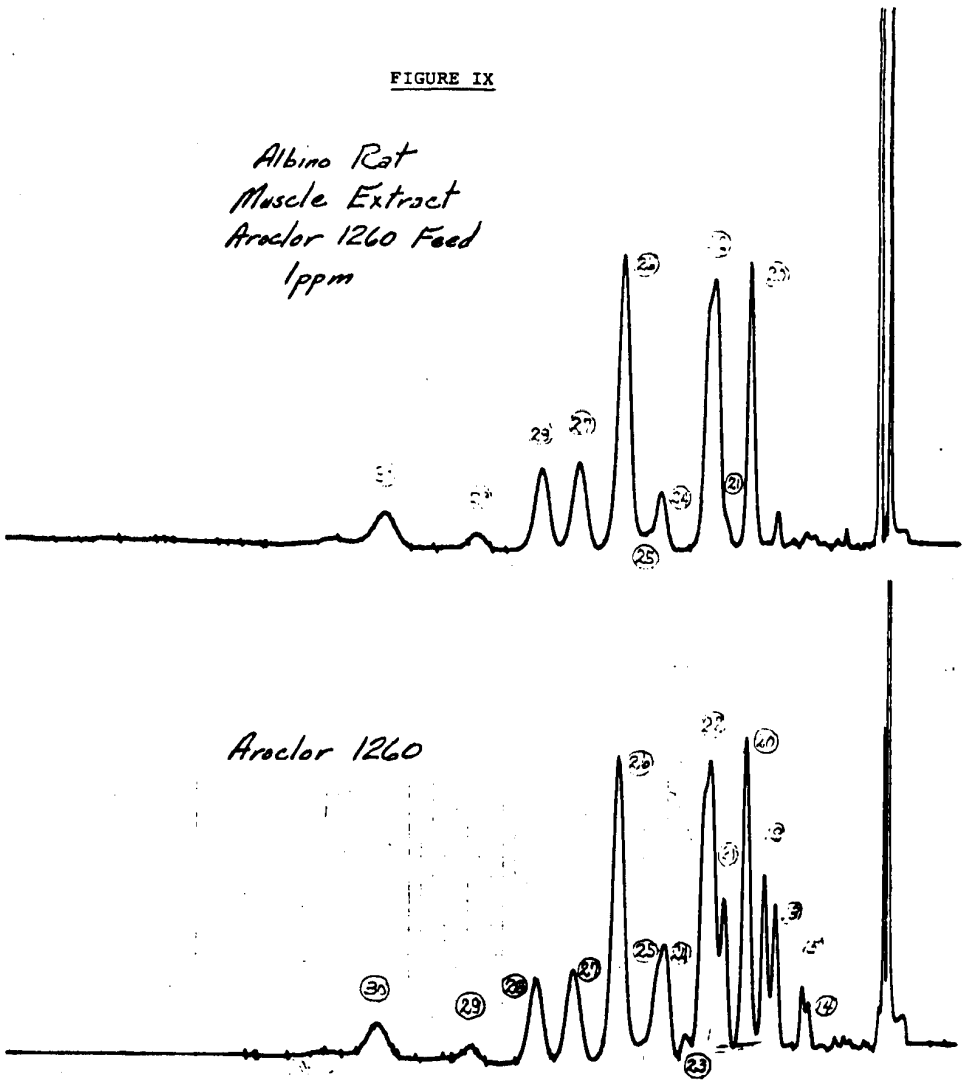

Aroclor 1254
Albino Rat
Muscle Extract
Aroclor 1242 Feed
1ppm
Aroclor 1242
MONS 096416
12 11 10 9 8 7 6 5 4 3 2 1 0
minutes

FIGURE IX



MONS 096417

FIGURE X

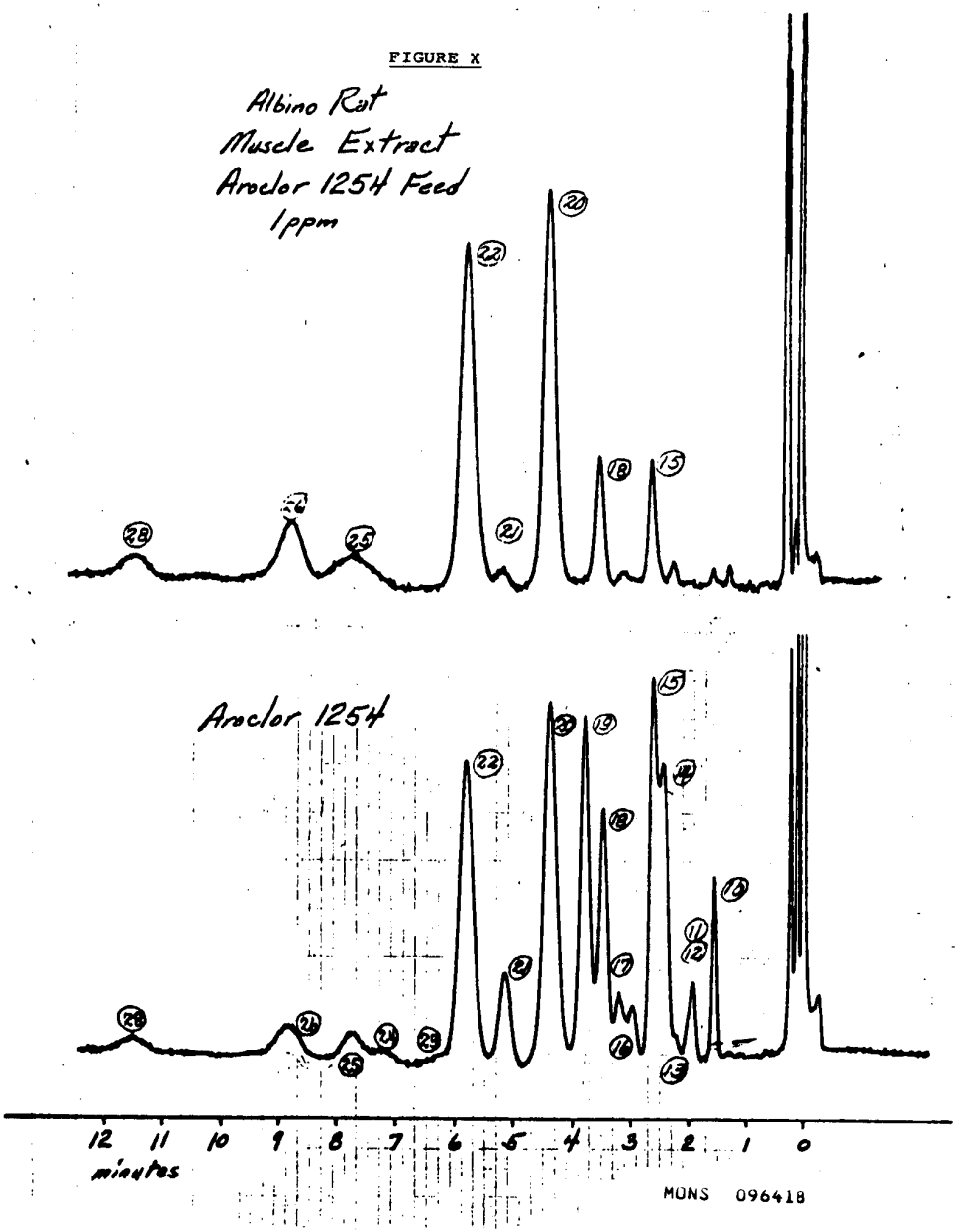
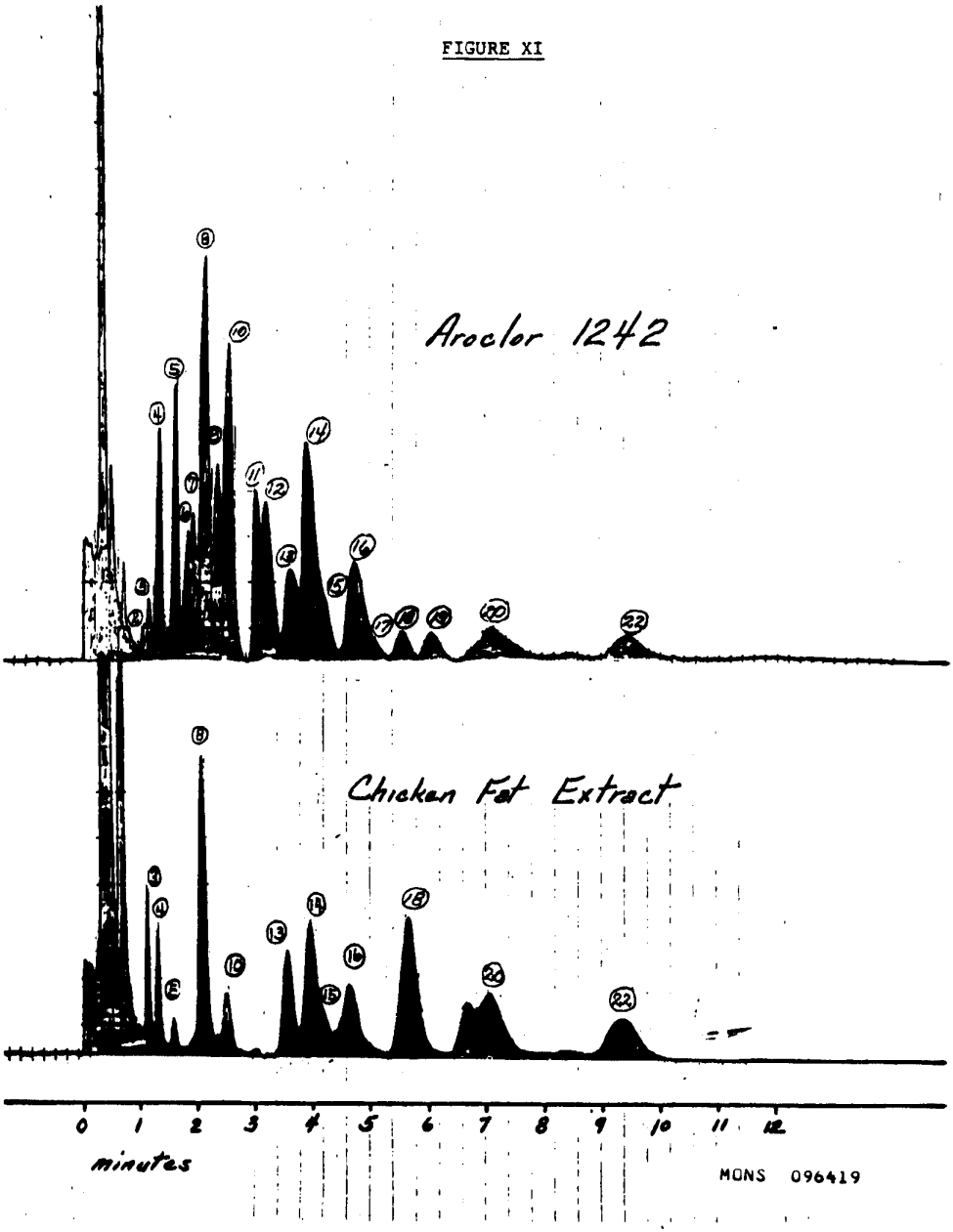

Albino Rat
Muscle Extract
Aroclor 1254 Feed
1ppm
Aroclor 1254
12 11 10 9 8 7 6 5 4 3 2 1 0
minutes
MONS 096418

FIGURE XI


Aroclor 1242
Chicken Fat Extract
0 1 2 3 4 5 6 7 8 9 10 11 12
minutes
MONS 096419

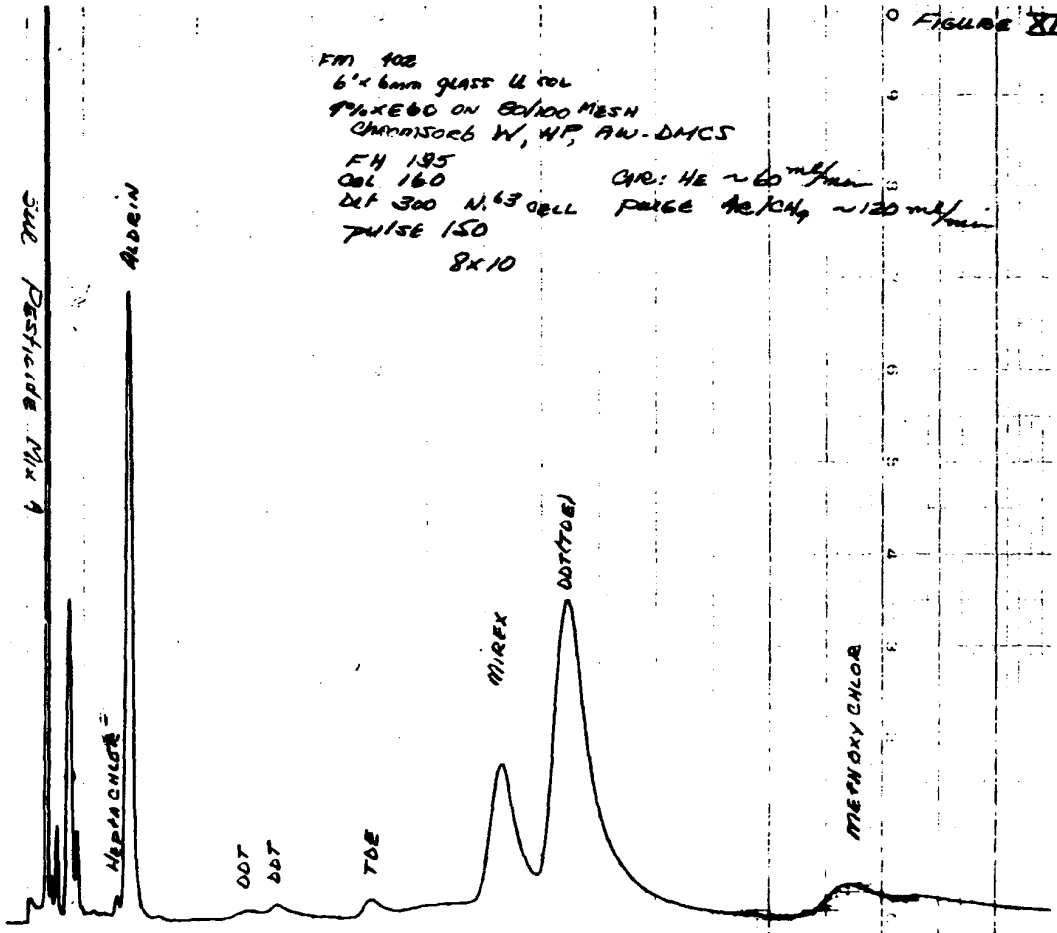
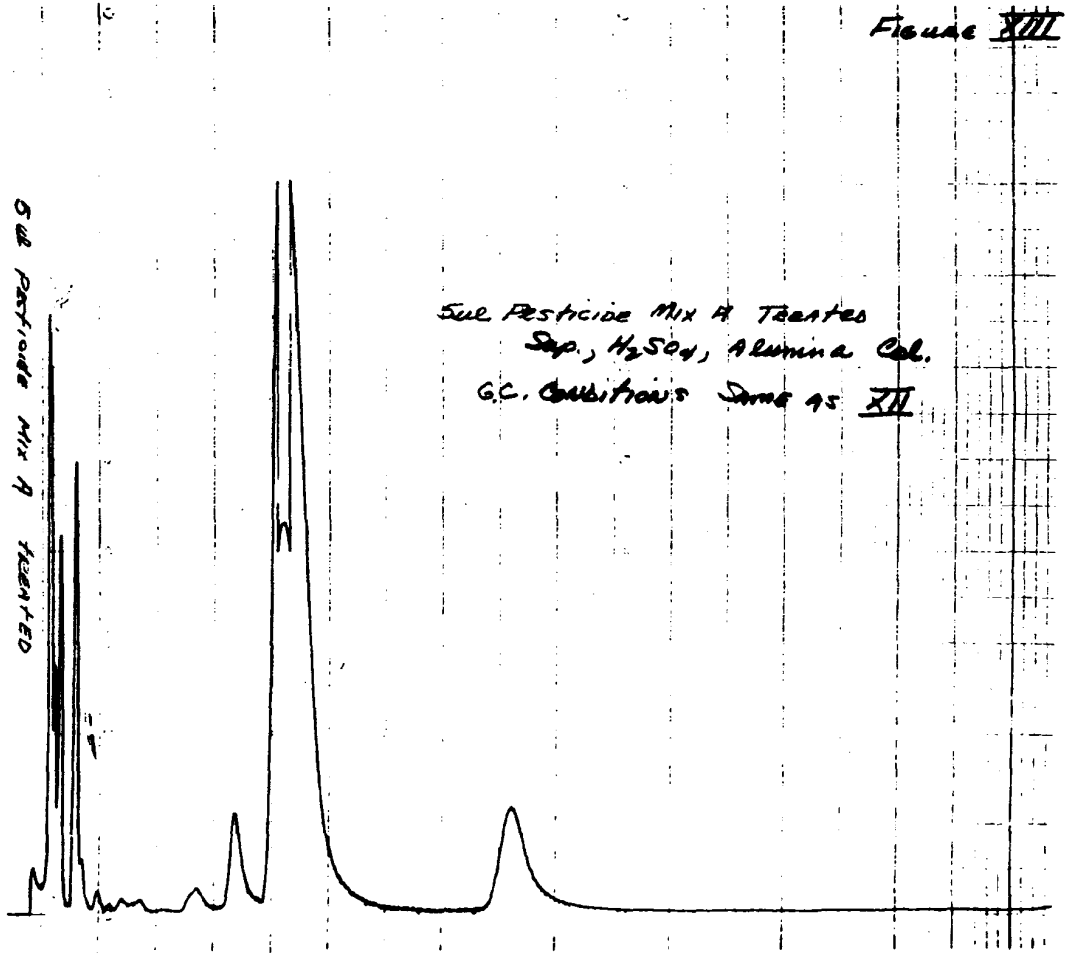


FIGURE XII
FM 402
6'x 6mm GLASS U COL
4% XE60 ON 80/100 MESH
CHROMSORB W, HP, AW-DMCS
FH 195
COL 160
DET 300 N.63 CELL
PULSE 150
8x10
CAR: HE ~60 ml/min
PURGE AR/CH4 ~120 ml/min
SUR PESTICIDE MIX A
ALDRIN
HEPTACHLOR
DDT
DDT
TDE
MIREX
DDT(TDE)
METHOXYCHLOR

MONS 096420

Figure XIII



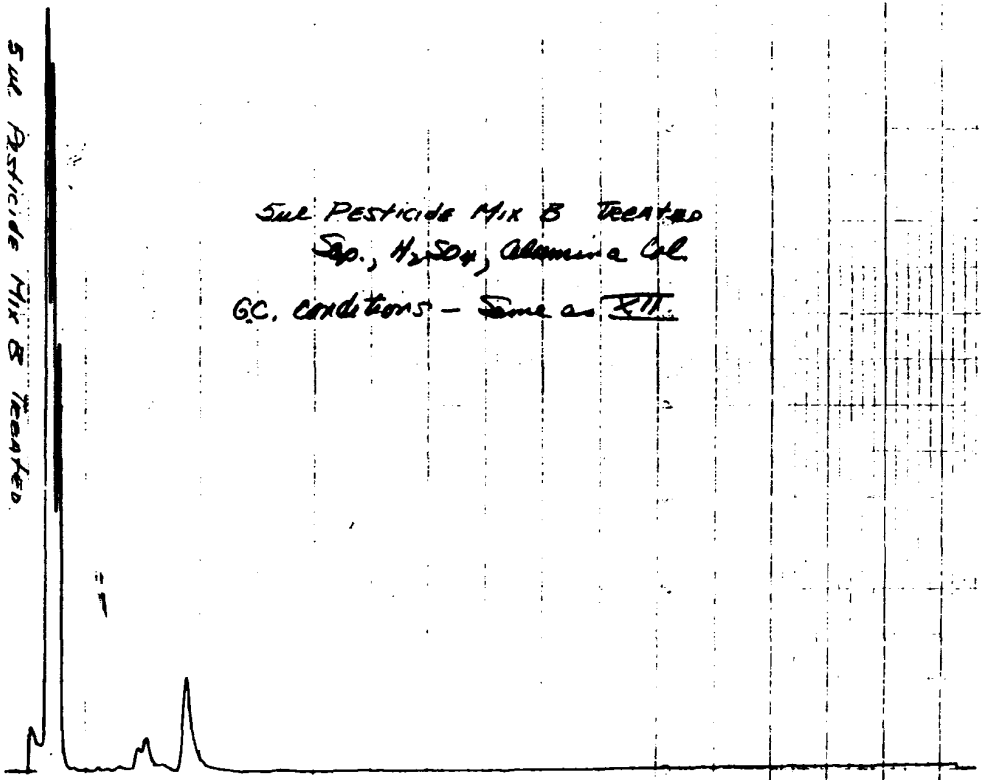
MONS 096421

FIGURE XIV

G.C. CONDITIONS - SAME AS XII

MUNS 096422

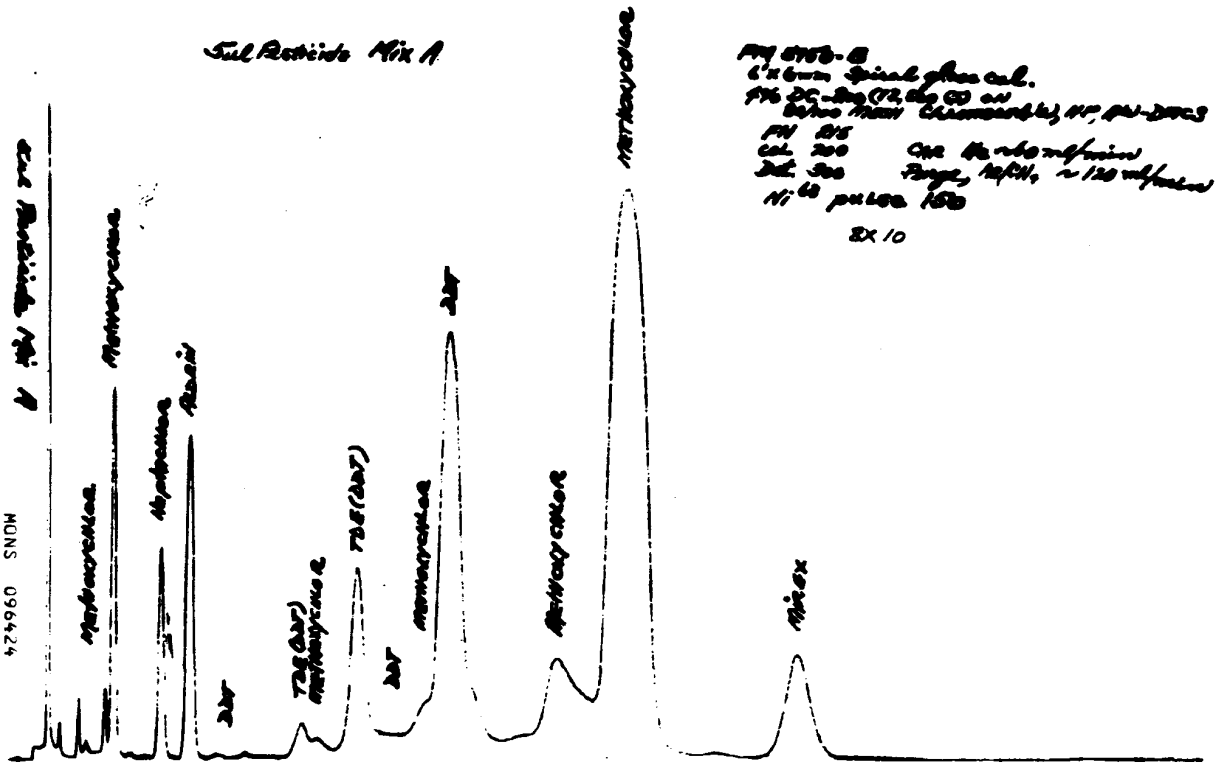
Figure XV



5 uL Pesticide Mix B Treated
Sep., H_2SO_4, Alumina Col.
G.C. conditions – Same as XII.

MONS 096423

FIGURE XVI


Sulfonamide Mix A
FFAP 6'x6mm Glass col.
5% SE-30 (2% dry CD on Gas Chrom Q, AW, DMCS
FH 215
Col. 200 Cool 4lb-180 ml/min
Det. 300 Purge, N2fill, ~120 ml/min
Ni63 pulse 15D
8X10
sulfanilamide
sulfathiazole
sulfadiazine
sulfamerazine
sulfamethazine
sulfisoxazole
MIX A
sulfamethoxypyridazine
MIX A
sulfamethoxazole
MIX A
sulfadimethoxine
MIX A
sulfamethoxy pyridazine
sulfamethoxazole
MIX A
sulfadimethoxine
Sulfonamide Mix A
MONS 096424

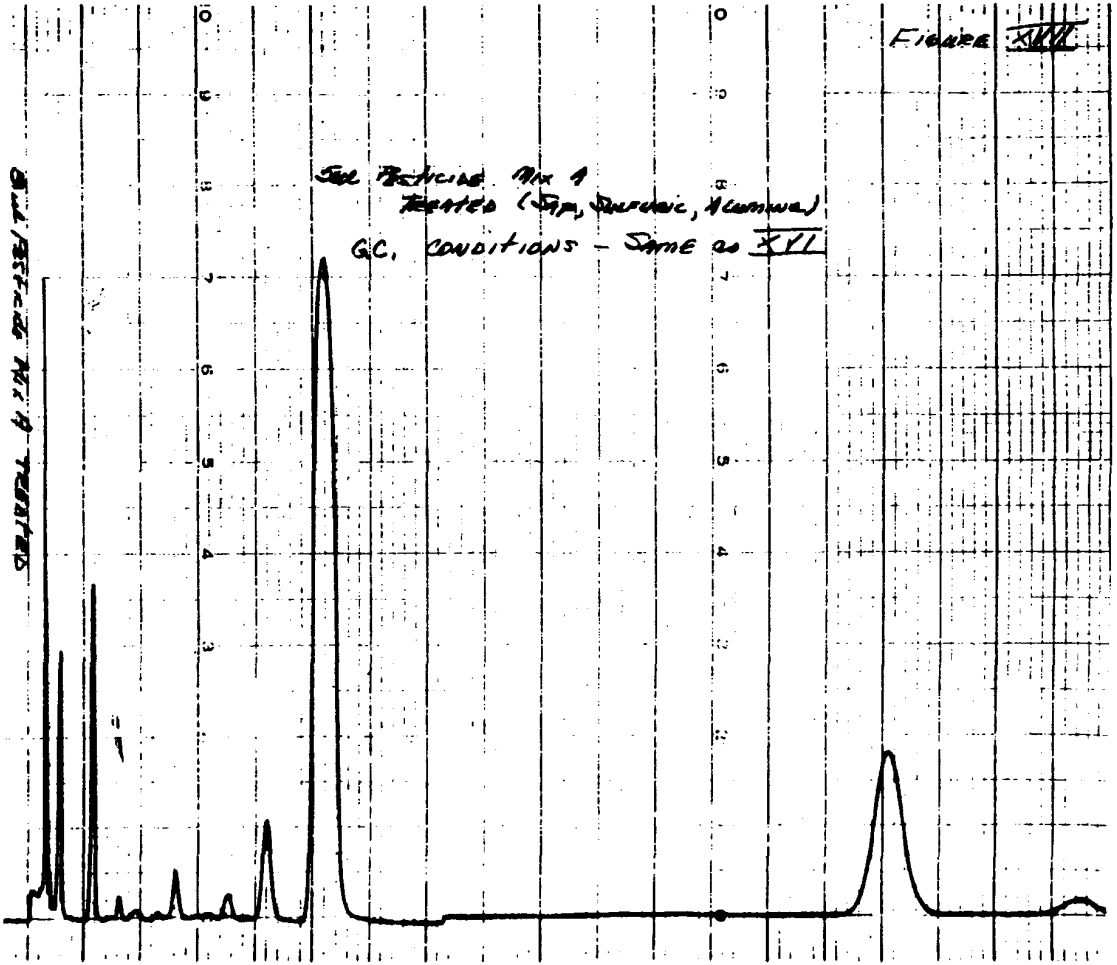
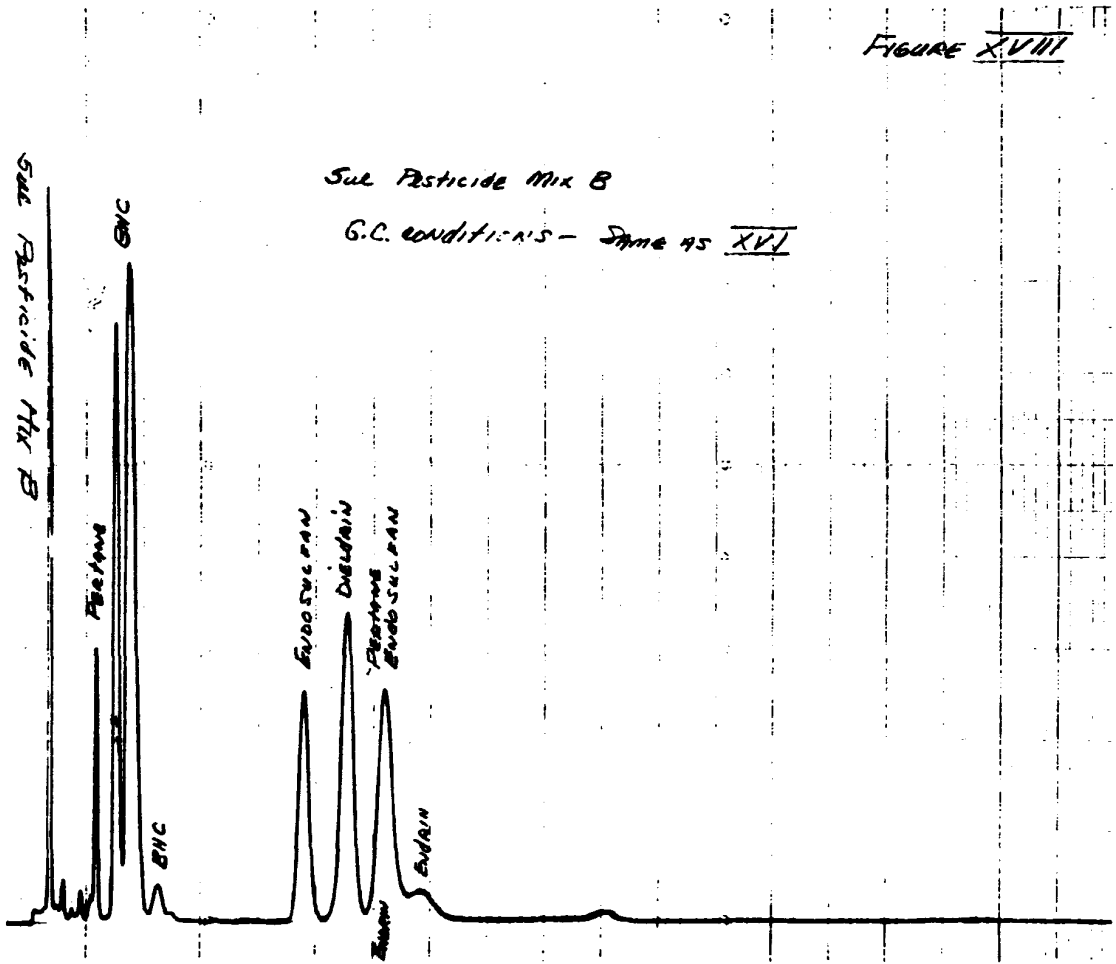


FIGURE XVII
5ml PESTICIDE MIX A
TREATED (SAP, SULFURIC, ALUMINA)
G.C. CONDITIONS - SAME AS XVI
5ml PESTICIDE MIX A TREATED

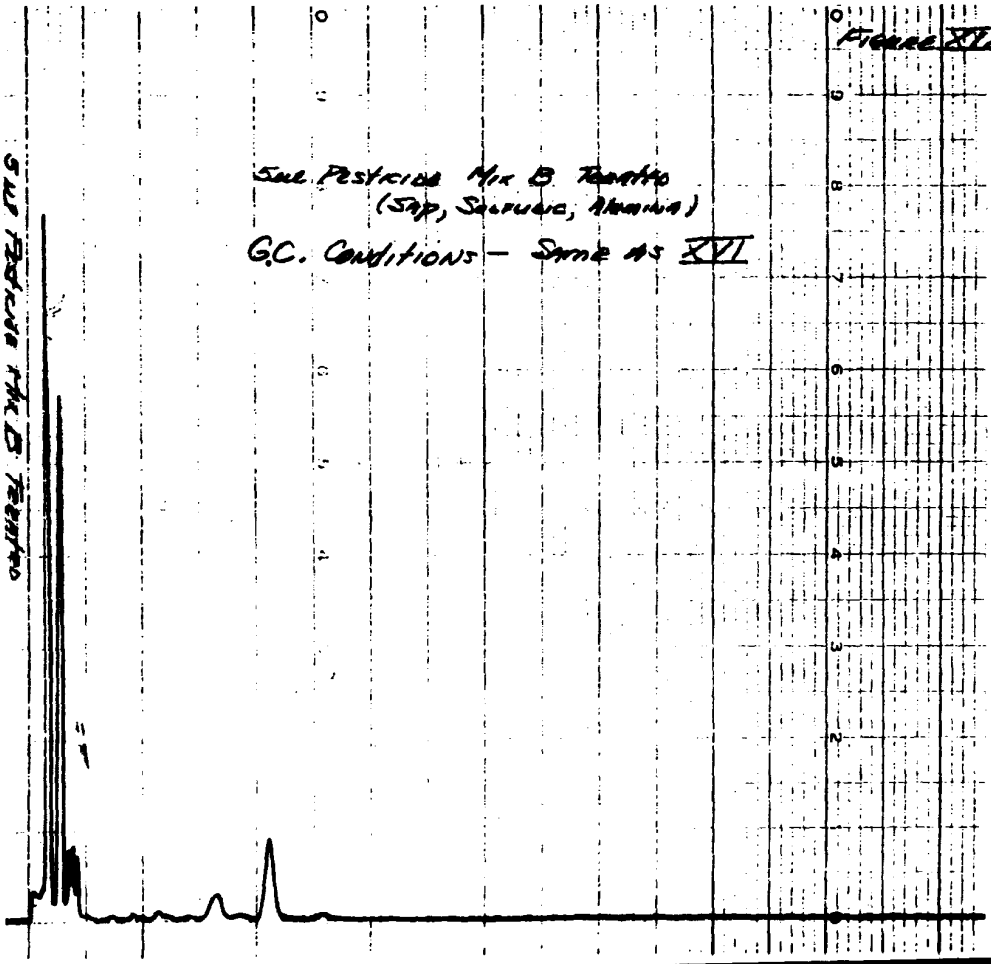
MONS 096425

FIGURE XVIII



MDNS 096426

Figure XIX



Soil Pesticide Mix B Treated
(Sap, Sucrose, Alumina)

G.C. Conditions — Same as XVI

Soil Pesticide Mix B Treated

MONS 096427