



Subject: Determination and
Characterization of
Trace Fluorochemicals

August 26, 1976

TO: H. E. FREIER - 201-1S
D. F. HAGEN - 201-1W
J. D. LA ZERTE - 236-1
J. E. LONG - 220-2E
B. W. NIPPOLDT - 201-1S
J. A. PENDERGRASS - 220-2E
~~A. PROKOP - 236-3B~~
F. A. UBEL - 220-2E
D. G. WEIBLEN - 201-1S

FROM: JON BELISLE - 201-1S (3-1053)

Nine human blood samples have been analyzed for organic and inorganic fluorine. The samples were as follows:

Sample J - individual previously but no longer exposed to fluorochemicals.

Cordova samples - 3M employees at the new Cordova, Ill. manufacturing facility.

Fluorochemical has been isolated from the serum of person E₁ (Chemolite supervisor) and (less significantly) from person A (236 lab chemist). GC and NMR data suggest the identity of this fluorochemical.

*Completed Aug. 23, 1976
for blood characterized by Aug 19 F NMR
Aug 26, 1976. C₂F₁₅ CO₂ M straight chain*

Exhibit
1131

State of Minnesota v. 3M Co.,
Court File No. 27-CV-10-28862

R - F
(Organic Fluorine)

F⁻
Inorganic Fluoride

LITERATURE VALUES

Range:	0.002-0.13	0.003-0.17
Average:	0.03	0.02

PERSON

J *Previously exposed
but not now*

REDACTED

1.0

0.36

E₁ (5/76)
(8/76)

39
35

Cordova Samples

RED
ACT
ED

-2

0.54

0.07

-3

0.63

0.05

-4

0.53

0.08

-5

HF Burn?

0.33

0.62

*how long ago
HF burn?*

-6

Worked at Chemolite

1.64

0.05

-7

0.25

0.12

-8

Packaging

0.16

0.87

high

-9

Packaging

0.16

0.15

*No HF exposure or
org. F exposure.*

Jon Belile

*Taken
by 14 rh*

*Blot 20
all area*