

MOM 10 24

Furnace

JOB NO.

PREPARED BY (SIGNATURE)

DATE

p-Chlorophenol + Dichlorophenol Process Streams - Dioxins +

74030

Owille Hicks

51 samples including - 4 replicates + 4 spiked samples were weighed (5.0g each) into 4 dram vials - capped with teflon backed septa caps. All solid samples were melted in a 100°C oven prior to sampling. Particulars of spiking on NBP 1514526 + 527.

All the samples were packed into 2 x 1 gal tin cans + covered with vermiculite + sealed.

TCDD - 4 ng/μl
 Tri + Tetra chlor DBF - 16.16 ng/μl
 Mixed DBF standard
 Mixed Dioxin standard

About 5ml of each was placed in a Supelco vial with a ^{glass} protrusion for sealing. The splers were frozen in liquid N₂ and the vials sealed with O₂ by the glassblower (Rus Kloess). The sealed vials were placed in the foam insert they arrived in, placed in a 1 gal. tin can, filled with vermiculite and

all the cans shipped to MRC - Dayton to be analyzed there.

Owille Hicks

3/15/79 -

NBP-1514526 + 527.

READ AND UNDERSTOOD BY

DATE

Cheryl L. Skow

8/14/79

SUBJECT

GC/MS Analysis of Chlorinated Dibenzodioxins and Dibenzofurans

JOB NO

17-027-760.52-409.3150

PREPARED BY (SIGNATURE)

Larry W. Buttler

DATE

3-28-79

Response factors, for quantitation, were determined using standards sent to NRC by Orville Hicks. Due to the breakage of the Furon standard mix (apparently prior to arrival), only the di, tri, tetra, and penta - Cl - dibenzofurans could be accurately assessed. Another mix will be sent to us shortly. The detection limit for dioxins and furans are also given in the ~~attached~~ table below.

Chlorinated Dibenzodioxins
Nanograms Per Gram of Sample

Sample Name	Mono	Di	Tri	Tetra	Penta	Hexa	Hepta	Octa
ES-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ES-2	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ES-3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ES-4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ES-5	387	184	45	N.D.	N.D.	N.D.	N.D.	N.D.
ES-6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
ES-7	179,257	90,964	20,032	176	N.D.	N.D.	N.D.	N.D.
ES-8	212,886	87,256	9,538	934	N.D.	N.D.	N.D.	N.D.
ES-9	178,202	75,236	12,020	268	N.D.	N.D.	N.D.	N.D.
ES-10	17,787	5,063	2,061	106	N.D.	N.D.	N.D.	N.D.
ES-12	194	112	422	N.D.	N.D.	N.D.	N.D.	N.D.
ES-13	1,937	974	178	N.D.	N.D.	N.D.	N.D.	N.D.
ES-14*	63,524	59,432	14,791	3,129	6,717	1,304	2,194	441
Detection Limits	50	15	22	10	50	75	20	25

Chlorinated Dibenzofurans
Nanograms Per Gram of Sample

	Mono	Di	Tri	Tetra	Penta	Hexa	Hepta	Octa
Detection Limits	50	14	13	16	15	Not Determined		

ANALYSED AND CERTIFIED BY

DATE

3/28/79