

H. A. Bader, Consultants

TLI Project: 56340
Client Sample: F602

Method 8290 TCDD/TCDF Analysis (DB-225)
Analysis File: P020051

Client Project:	NYC WTC area testing			Spike File:	SPC2NF4W
Sample Matrix:	WIPE	Date Received:	01/08/2002	ICal:	PF27021
TLI ID:	315-13-2	Date Extracted:	01/08/2002	ConCal:	P020048
		Date Analyzed:	01/10/2002		
Sample Size:	1.000	Dilution Factor:	n/a	% Moisture:	n/a
Dry Weight:	n/a	Blank File:	W005802	% Lipid:	n/a
GC Column:	DB-225	Analyst:	JMM	% Solids:	n/a

Analytes	Amt. (ng)	DL	EMPC	Ratio	RT	Flags
2,3,7,8-TCDF	0.57			0.77	23:14	—

Internal Standard	Amt. (ng)	% Recovery	QC Limits	Ratio	RT	Flags
¹³ C ₁₂ -2,3,7,8-TCDF	2.6	65.8	40%-130%	0.79	23:13	—

Recovery Standard	Ratio	RT	Flags
¹³ C ₁₂ -1,2,3,4-TCDD	0.80	22:00	—

Data Reviewer: *WJ* 01/10/2002

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InitialDate...

Data Review By: Wby 01/10/02

Channel specific noise levels computed from 'NL' heights.

... Total Area for each peak with an ion abundance ratio outside ratio limits has been recalculated according to method requirements.

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01/10/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/

M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

TCDF		0.65-0.89				0.789-1.101			
304-306	DC NL	Height	0.18	0.07	0.11				
	18:29	0.85	12.40	5.71	6.69	0.796			
	19:00 RO	0.29	0.64	0.28	0.96	0.818		J	
	19:07 RO	1.21	2.02	1.38	1.14	0.823		J	
	19:20	0.69	1.00	0.41	0.59	0.833		J	
	19:30	0.73	68.53	29.03	39.50	0.840			
	19:38	0.71	47.68	19.75	27.93	0.846			
	19:46	0.75	155.96	66.95	89.01	0.851			
	19:57	0.77	46.42	20.20	26.22	0.859			
	20:13	0.77	60.69	26.44	34.25	0.871			
	20:23	0.74	157.55	67.14	90.41	0.878			
	20:32	0.74	81.75	34.83	46.92	0.884			
	20:42	0.73	236.90	100.31	136.59	0.892			
	20:52	0.82	135.40	60.83	74.57	0.899			
	21:15	0.74	569.92	243.02	326.90	0.915			
	21:31 RO	1.68	1.63	1.55	0.92	0.927		J	
	21:42	0.79	133.04	58.91	74.13	0.935			
	21:58	0.76	147.09	63.53	83.56	0.946			
	22:13	0.76	111.07	47.80	63.27	0.957			
	22:26	0.84	56.98	26.02	30.96	0.966			
	22:38	0.76	252.85	109.13	143.72	0.975			
	22:48 RO	0.91	40.34	20.74	22.79	0.982			
	23:06	0.75	135.14	57.93	77.21	0.995			
	23:14	0.77	73.95	32.20	41.75	1.001	2378-TCDF	AN	
	23:26	0.76	178.24	77.14	101.10	1.009			
	23:44	0.76	198.12	85.78	112.34	1.022			
	23:52	0.75	141.75	60.71	81.04	1.028			
	24:06	0.83	22.15	10.03	12.12	1.038			
	24:21 RO	2.75	0.28	0.44	0.16	1.049		J	
	24:25 RO	2.18	0.67	0.83	0.38	1.052		J	
	24:41	0.76	96.79	41.88	54.91	1.063			
	24:51	0.81	39.94	17.84	22.10	1.070			
	25:02	0.66	5.16	2.05	3.11	1.078			
	25:19	0.78	47.78	20.91	26.87	1.090			
	25:31	0.73	4.73	1.99	2.74	1.099			
	DC WH 25:46	0.76	38.66		1.110				
304-306	34 Peaks		3,264.56						
13C12-TCDF		0.65-0.89				0.957-1.043			
316-318	DC NL	Height	0.20	0.08	0.12				
	DC WL 18:34 RO	0.15	0.28			0.800			
	DC WL 18:49	0.71	18.27			0.810			
	DC WL 20:11	0.79	0.52			0.869			

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01/10/2002 Matched GC Peaks / Ratio / Ret. Time

Compound/
M_Z.... QC.Log Omit Why ..RT. OK Ratio Total.Area/Ht Area/Ht.Peak1 Area/Ht.Peak2 Rel.RT Compound.Name.. ID.. Flags.

DC	WL	20:58	RO	0.99	2.11			0.903
DC	WL	21:26	RO	0.90	0.73			0.923
DC	WL	21:41		0.69	2.36			0.934
DC	WL	21:53	RO	1.62	0.37			0.943
		23:13		0.79	542.50	238.64	303.86	1.000 13C12-2378-TCDF ISO
			Height		124.49	56.01	68.48	
DC	SN	23:28	RO	0.16	0.14			1.011
		23:53		0.75		8.37	4.77	1.029
DC	WH	25:31	RO	1.45	0.19			1.099
316-318		2 Peaks			550.87			

----- Above: TCDF / TCDD Follows -----

13C12-TCDD				0.65-0.89				0.908-1.092
332-334	DC	NL		Height	0.29	0.22	0.07	
			21:43	0.79	370.30	163.86	206.44	1.000 13C12-2378-TCDD IS1
				Height	83.81	37.49	46.32	
			22:00	0.80	505.86	225.22	280.64	1.013 13C12-1234-TCDD RS1
332-334		2 Peaks			876.16			

Column Description..... "Why" Code Description..... QC Log Desc.....

M_Z	-Nominal Ion Mass(es)	WL-Below Retention Time Window	A-Peak Added
..RT.	-Retention Time (mm:ss)	WH-Above Retention Time Window	K-Peak Kept
Rat.1	-Ratio of M/M+2 Ions	SN-Below Signal to Noise Level	D-Peak Deleted
OK	-RO=Ratio Outside Limits	<M-Below Method Detection Limit	T-Time Changed
rel.RT	-Relative Retention Time	NL-Channel Specific Noise Level	M-Peak Area Changed
			N-Name Changed
			X-Ether Interference

*** End of Report ***

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