

**ADDENDUM REPORT AND DETERMINATION OF
CHLOROPHENOLICS, SPECIAL ANALYTICAL
SERVICES CONTRACT 1047, EPISODE 1886**

**Analytical Technologies Inc.,
Prepared for W. A. Telliard, Industrial Technology Division
(WH-552)**

**U.S. EPA
401 M St. SW
Washington, DC 20450**

May 1991

Section 1: Sample Numbers and Dates of Receipt

Table 1: Sample Numbers and Dates of Receipt

Episode	--Sample Identifications--			Date Received	Analysis
	EPA	ATI			
1886	19355	90-05-031-01A		05/17/90	Chlorophenolics
1886	19356	90-05-031-01A		05/17/90	Chlorophenolics
1886	19357	90-05-031 02A		05/17/90	Chlorophenolics
1886	19358	90-05-031-02A		05/17/90	Chlorophenolics
1886	19359	90-05-031-03A		05/17/90	Chlorophenolics
1886	19360	90-05-031-06A		05/17/90	Chlorophenolics
1886	19361	90-05-031-07A		05/17/90	Chlorophenolics
1886	19362	90-05-031-08A		05/17/90	Chlorophenolics
1886	19364	90-05-033-01A		05/18/90	Chlorophenolics
1886	19365	90-05-033-02A		05/18/90	Chlorophenolics
1886	19366	90-05-033-03A		05/18/90	Chlorophenolics
1886	19367	90-05-033-04A		05/18/90	Chlorophenolics
1886	19368	90-05-033-05A		05/18/90	Chlorophenolics
1886	19369	90-05-033-06A		05/18/90	Chlorophenolics
1886	19370	90-05-033-07A		05/18/90	Chlorophenolics
1886	19371	90-05-033-08A		05/18/90	Chlorophenolics
1886	19372	90-05-033-09A		05/18/90	Chlorophenolics
1886	19373	90-05-033-10A		05/18/90	Chlorophenolics
1886	19375	90-05-037-01A		05/19/90	Chlorophenolics
1886	19376	90-05-037-02A		05/19/90	Chlorophenolics
1886	19377	90-05-037-03A		05/19/90	Chlorophenolics
1886	19378	90-05-037-04A		05/19/90	Chlorophenolics
1886	19379	90-05-037-05A		05/19/90	Chlorophenolics
1886	19380	90-05-037-06A		05/19/90	Chlorophenolics
1886	19381	90-05-037-07A		05/19/90	Chlorophenolics
1886	19382	90-05-037-08A		05/19/90	Chlorophenolics
1886	19383	90-05-037-09A		05/19/90	Chlorophenolics

Section 2: Narrative

2.1 SAS Information

SAS solicitation No. 1047 was received on May 7, 1990. The response to bid was sent via fax on May 9, 1990. Award was made via fax on May 10, 1990 by Susan B. Grove for Viar & Co. Copies of page one of the SAS, the bid response, and the award notification are given in Appendix A. The contract letter was mailed on June 15, 1990 per Susan B. Grove.

2.2 Sample Logistics

Samples were received in three shipments on the dates shown in Table 1. All samples were received cool and intact. Traffic Reports and ATI Workorders for these samples are given in Appendix B.

2.3 Reference standard

Standards for chlorophenols were obtained from Ultra Chemical Co. Standards for the remaining chlorophenolics were obtained from Helix Biotech. Standards for all chlorophenolics specified in NCASI Method CP-85.01 (including those blacked out in the SAS) were available except for 3,6-Dichlorocatechol. Standards were obtained for the following chlorophenolics not specified in the NCASI method but available from Helix Biotech:

4-Chlorocatechol
3,5-Dichlorocatechol
5-Chloroguaiacol
6-Chloroguaiacol
3,4,5-Trichloroguaiacol
3,4,6-Trichloroguaiacol
2,6-Dichlorosyringealdehyde

The GC systems were calibrated with all standards available, including the above.

Technical data on chlorophenolic standards is presented in Appendix C.

2.4 Derivitization/extraction/concentration of chlorophenolics

The derivitization/extraction/concentration processes were straightforward with good recoveries of the analytes and surrogate from reagent water in the precision and recovery tests. Laboratory chronicles are presented in Appendix D.

Because standards are not available in derivitized form, there is always a concern that complete derivitization did not occur. However, calibration data showed a single, distinct peak for each compound, thus indicating complete derivitization.

2.5 Analysis by Gas Chromatography (GC)

Sample extracts were analyzed using a 30 meter DB-1 column and a 30 meter DB-608 column. The NCASI method specifies a 15 meter DB-1 column and no confirmatory column. The 30 meter column improved the separation of the analytes, and the confirmatory column permitted rigorous identification.

Columns and conditions:

DB-1

30 meter x 0.53 mm i.d., methyl silicone with 1.5 micron film thickness

DB-608

30 meter x 0.53 mm i.d., 35 percent phenyl, 65 percent methyl silicone with 0.83 micron film thickness

Injector temperatures: 200 ° C

Temperature program: 140 ° C for 1 minute, 140-190 ° C at 2 ° C per minute, 190-220 ° C at 10 ° C per minute, 220-280 ° C at 20 ° C per minute, 280 ° C for 2 minutes.

Detectors: Electrolytic conductivity in halogen mode

Carrier gas and flow rates: Helium @ 8 mL/min.

Sample size: 3 uL injected with dual auto-injectors.

2.6 Identification

Analytes were identified by comparing retention times on the two columns with retention time windows derived from calibration data and by comparing the concentration determined on each column/detector system. For all samples in which an analyte was detected, the retention times were within their respective windows on both columns and the concentrations were within a factor of two. If these conditions were not met, the analyte was considered not identified. Supporting quality control data for these identifications is given in Section 3 of this report.

2.7 Quantitation

Concentrations in sample extracts were determined by applying the average calibration factor (response divided by amount) from a multi-point calibration, per the following equation:

$$C_e = CF \times \text{response}$$

where C_e is the concentration of the sample extract, CF is the calibration factor from the calibration, and the response is the peak height or peak area in the analysis of the sample. The calibration factors are listed in the Section 4, and the responses are tabulated in Section 3 of this report.

$$C_s = \frac{C_e (\mu\text{g/mL}) \times V_e (\text{mL})}{V_s (\text{L})}$$

where C_s is the concentration in the sample. The sample volumes and the extract volumes are given in Section 3 of this report and in the Laboratory Chronicles in Appendix D.

2.8 Supporting Quality Control Data

These data are summarized in Section 4. Data are presented for:

- Initial Calibration
- Retention Time Windows
- Calibration Verification
- Initial Precision and Recovery
- Ongoing Precision and Recovery
- Analysis of a Blank

2.9 Supporting Raw Data

Supporting raw data including chromatograms and quantitation lists are presented in Appendix E.

3.0 Telephone Logs

Telephone logs and faxes are contained in Appendix F.

Section 3: Results and Detection Limits

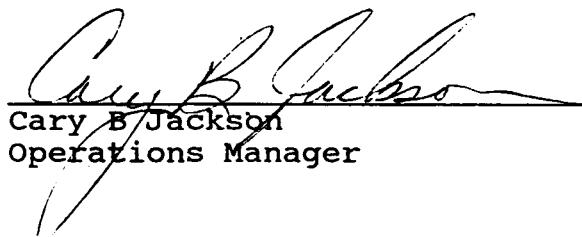
Table 2: Results obtained for Chlorophenolics

* Section 4: Supporting Quality Assurance/Quality Control Data

- Table 3: Quantitation of chlorophenolics
- Table 4: Identification of chlorophenolics
- Table 5: Initial precision and recovery for chlorophenolics
- Table 6: On-going precision and recovery for chlorophenolics
- Table 7: Surrogate recoveries and compounds detected in blanks for chlorophenolics
- Table 8: Matrix spike recoveries for chlorophenolics
- Table 9: Run chronology for chlorophenolics
- Table 10: Calibration for chlorophenolics
- Table 11: Calibration verification for chlorophenolics

* CERTIFICATION

Analytical Technologies Inc. certifies that the analyses reported herein are true, complete, and correct within the limitations of the methods employed.



Cary B. Jackson
Operations Manager



Dale R. Rushneck
Laboratory Manager and Quality Assurance

Results Obtained for Chlorinated Phenolics. Concentrations in ug/L.

	EPA Sample Numbers								
	Blank	19355	19356	19357	19358	19359	19360	19361	19362
chlorophenol	< 0.3	< 0.3	5.7	< 2.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
chlorophenol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
chlorophenol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
guaiacol	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
chlorophenol	< 0.1	< 0.1	< 1.0	< 1.0	< 0.1	< 0.1	0.1	0.1	< 0.1
oroguaiacol	< 0.3	3.0	< 2.5	61	< 0.3	< 0.3	2.9	2.9	1.2
orocatechol	< 0.5	< 0.5	53	< 5.0	< 0.5	< 0.5	< 0.5	4.5	1.8
anillin	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	1.4	< 0.5	1.8
orocatechol	< 2.5	< 2.5	< 25	< 25	< 2.5	< 2.5	< 2.5	1.4	1.1
chloroguaiacol	< 0.1	0.1	< 1.0	5.3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
orovanillin	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
ingaldehyde	< 0.5	1.0	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	0.8	< 0.5
chlorocatechol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
syringol	< 0.3	< 0.3	< 2.5	36	< 0.3	< 0.3	1.3	1.1	0.4
orosyringaldehyde	< 1.3	< 1.3	< 13	29	< 1.3	< 1.3	2.1	1.4	1.1
henol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
chlorophenol	< 0.1	< 0.1	< 1.0	< 1.0	< 0.1	< 0.1	< 0.1	< 0.1	0.1
chlorophenol	< 0.3	< 0.3	< 2.5	27	< 0.3	< 0.3	1.4	2.3	0.3
guaiacol	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
chlorophenol	< 0.3	0.5	24	18	< 0.3	< 0.3	2.2	2.7	1.1
col	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5
tetrachlorophenol	< 0.3	< 0.3	< 2.5	11	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
chloroguaiacol	< 0.5	< 0.5	< 5.0	10	< 0.5	< 0.5	< 0.5	< 0.5	1.5
orocatechol	< 1.0	< 1.0	46	< 10	< 1.0	< 1.0	< 1.0	6.0	2.5
chloroguaiacol	< 0.3	1.1	< 2.5	125	< 0.3	< 0.3	6.0	4.6	1.1
rophenol	< 0.1	< 0.1	< 1.0	< 1.0	< 0.1	< 0.1	< 0.1	1.6	< 0.1
roguaiacol	< 0.1	< 0.1	< 1.0	3.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1
rocatechol	< 0.3	< 0.3	57	< 2.5	< 0.3	< 0.3	0.3	< 0.3	0.3

Results Obtained for Chlorinated Phenolics. Concentrations in ug/L. (Continued)

	EPA Sample Numbers								
	19364	19365	19366	19367	19368	19369	19370	19371	19372
Dichlorophenol	0.4	< 0.3	13	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
Dichlorophenol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
Dichlorophenol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
Chloroguaiacol	< 0.5	< 0.5	< 5.0	7.2	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
richlorophenol	< 0.1	< 0.1	< 1.0	< 1.0	< 0.1	0.1	< 0.2	0.3	< 0.1
chloroguaiacol	11	5.8	< 2.5	65	< 0.3	2.9	< 0.5	4.4	1.4
chlorocatechol	< 0.5	< 0.5	67	< 5.0	< 0.5	< 0.5	< 1.0	5.2	1.4
Chlorovanillin	0.5	< 0.5	15	< 5.0	< 0.5	1.4	4.9	1.8	3.0
chlorocatechol	< 2.5	< 2.5	< 25	7.0	< 2.5	< 2.5	< 5.0	< 5.0	1.4
chloroguaiacol	0.5	0.1	2.4	5.6	< 0.1	< 0.1	< 0.2	0.7	< 0.1
chlorovanillin	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
syringaldehyde	2.0	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
chlorocatechol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	7.2	< 0.5	< 0.3
chlorosyringol	< 0.3	< 0.3	< 2.5	45	< 0.3	1.3	4.1	< 0.5	< 0.3
rosyringaldehyd	< 1.3	< 1.3	12	46	< 1.3	2.1	4.0	2.8	1.3
4-Chlorophenol	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	0.5	< 0.5	< 0.3
Dichlorophenol	< 0.1	< 0.1	< 1.0	3.7	< 0.1	< 0.1	< 0.2	0.7	0.2
richlorophenol	1.1	0.6	< 2.5	23	< 0.3	1.4	2.0	3.3	0.6
Chloroguaiacol	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
richlorophenol	0.6	0.4	26	28	< 0.3	2.2	3.8	4.9	1.4
4,5-Guaiacol	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
trachlorophenol	< 0.3	< 0.3	< 2.5	17	< 0.3	< 0.3	< 0.5	< 0.5	1.1
chloroguaiacol	< 0.5	< 0.5	< 5.0	16	< 0.5	< 0.5	< 1.0	1.3	0.8
chlorocatechol	< 1.0	< 1.0	61	< 10	< 1.0	< 1.0	< 2.0	8.4	< 1.0
chloroguaiacol	1.3	0.8	< 2.5	144	< 0.3	6.0	9.7	8.9	< 0.3
tachlorophenol	< 0.1	< 0.1	< 1.0	< 1.0	< 0.1	< 0.1	5.2	2.4	< 0.1
chloroguaiacol	< 0.1	< 0.1	< 1.0	8.2	< 0.1	< 0.1	3.5	< 0.2	< 0.1
chlorocatechol	< 0.3	< 0.3	20	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3

Results Obtained for Chlorinated Phenolics. Concentrations in ug/L. (Continued)

	EPA Sample Numbers									
	19373	19375	19376	19377	19378	19379	19380	19381	19382	19383
-Dichlorophenol	< 0.3	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
-Dichlorophenol	< 0.3	< 0.3	< 0.3	< 2.5	< 2.5	1.2	< 0.3	< 0.5	< 0.5	< 0.3
-Dichlorophenol	< 0.3	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
-Chloroguaiacol	< 0.5	< 0.5	1.4	8.9	< 5.0	< 0.5	< 0.5	2.0	< 1.0	< 0.5
Trichlorophenol	< 0.1	< 0.1	< 0.1	< 1.0	< 1.0	< 0.1	< 0.1	< 0.2	0.9	< 0.1
Chloroguaiacol	1.9	< 0.3	< 0.3	< 2.5	64	< 0.3	< 0.3	< 0.5	7.9	6.8
Chlorocatechol	1.9	< 0.5	0.8	98	< 5.0	< 0.5	< 0.5	3.8	11.3	7.1
-Chlorovanillin	3.0	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	2.3	1.8	7.1
Chlorocatechol	< 2.5	< 2.5	0.9	< 25	< 25	< 2.5	< 2.5	2.3	3.2	< 2.5
Chloroguaiacol	< 0.1	< 0.1	0.8	< 1.0	11	< 0.1	< 0.1	< 0.2	1.8	< 0.1
Chlorovanillin	< 0.5	< 0.5	1.7	< 5.0	< 5.0	< 0.5	< 0.5	7.6	< 1.0	< 0.5
Syringaldehyde	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	5.8
Chlorocatechol	< 0.3	< 0.3	0.6	< 2.5	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
Chlorosyringol	0.9	< 0.3	0.2	< 2.5	39	< 0.3	< 0.3	< 0.5	3.9	2.7
Syringaldehyd	2.2	< 1.3	< 1.3	< 13	14	< 1.3	< 1.3	< 2.5	4.3	5.9
4-Chlorophenol	< 0.3	< 0.3	< 0.3	3.2	< 2.5	< 0.3	< 0.3	< 0.5	1.0	0.3
-Dichlorophenol	0.2	< 0.1	< 0.1	< 1.0	5.0	< 0.1	< 0.1	< 0.2	1.1	0.9
Trichlorophenol	0.6	< 0.3	< 0.3	< 2.5	27	< 0.3	< 0.3	1.1	4.7	1.9
-Chloroguaiacol	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
Trichlorophenol	1.6	< 0.3	1.4	41	29	< 0.3	< 0.3	3.9	6.6	4.3
4,5-Guaiacol	< 0.5	< 0.5	< 0.5	< 5.0	< 5.0	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
Trichlorophenol	< 0.3	< 0.3	< 0.3	< 2.5	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	2.6
Chloroguaiacol	0.5	< 0.5	< 0.5	< 5.0	13	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
Chlorocatechol	< 1.0	< 1.0	< 1.0	77	< 10	< 1.0	< 1.0	< 2.0	12.6	10.5
Chloroguaiacol	< 0.3	< 0.3	< 0.3	< 2.5	125	< 0.3	< 0.3	< 0.5	13.0	< 0.3
Trichlorophenol	< 0.1	< 0.1	0.4	< 1.0	< 1.0	< 0.1	< 0.1	< 0.2	< 0.2	3.2
Chloroguaiacol	< 0.1	< 0.1	0.9	< 1.0	< 1.0	< 0.1	< 0.1	< 0.2	< 0.2	0.1
Chlorocatechol	0.5	< 0.3	< 0.3	26	< 2.5	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3

QUANTIFICATIONS

1. Blank ATI No. 90-05-031-00

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (
MIX A						
chlorophenol	DB-1	7.62E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.63E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.97E-05	<	0.05	0.1	< 0.3
guaiacol	DB-1	2.08E-04	<	0.10	0.1	< 0.5
Trichlorophenol	DB-1	6.40E-05	<	0.02	0.1	< 0.1
chloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	< 0.3
chlorocatechol	DB-1	1.20E-04	<	0.10	0.1	< 0.5
vanillin	DB-1	2.80E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-1	1.13E-04	<	0.50	0.1	< 2.5
Trichloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	< 0.1
chlorovanillin	DB-1	1.18E-04	<	0.10	0.1	< 0.5
syringaldehyde	DB-1	3.54E-04	<	0.10	0.1	< 0.5
Trichlorocatechol	DB-1	8.37E-05	<	0.05	0.1	< 0.3
rosyrosyngol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
chlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	< 1.3
MIX B						
phenol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
chlorophenol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
Trichlorophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
guaiacol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
anisol	DB-608	8.49E-05	<	0.10	0.1	< 0.5
4-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
chlorophenol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
chloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
chlorocatechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
Trichlorophenol	DB-608	43885	9.41E-05	4.13	0.1	21

Calibration factors from average of 4-point calibration. CF = Conc (ug/mL)/peak area

$$\lambda = CF * A$$

Conc/Dil factor (X) is the amount the extract is concentrated or diluted

$$\lambda = (Ce * Ve * X * 1000) / Vs$$

QUANTIFICATIONS

S. 19355

ATI No. 90-05-031-01

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1		7.62E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		8.63E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		8.97E-05	< 0.05	0.1	< 0.3
guaiacol	DB-1		2.08E-04	< 0.10	0.1	< 0.5
Trichlorophenol	DB-1		6.40E-05	< 0.02	0.1	< 0.1
chloroguaiacol	DB-1	5676	1.05E-04	0.60	0.1	3.0
chlorocatechol	DB-1		1.20E-04	< 0.10	0.1	< 0.5
vanillin	DB-1	76	2.80E-04	< 0.10	0.1	< 0.5
chlorocatechol	DB-1		1.13E-04	< 0.50	0.1	< 2.5
Trichloroguaiacol	DB-1	282	8.49E-05	0.02	0.1	0.1
chlorovanillin	DB-1		1.18E-04	< 0.10	0.1	< 0.5
syringaldehyde	DB-1	560	3.54E-04	0.20	0.1	1.0
Trichlorocatechol	DB-1		8.37E-05	< 0.05	0.1	< 0.3
rosyrosingol	DB-1	472	7.95E-05	< 0.05	0.1	< 0.3
chlorosyringaldehyde	DB-1		2.12E-04	< 0.25	0.1	< 1.3
MIX B						
phenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
chlorophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
Trichlorophenol	DB-608		2.02E-04	< 0.05	0.1	< 0.3
guaiacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
Trichlorophenol	DB-608	958	1.01E-04	0.10	0.1	0.5
guaiacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
4-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
Trichloroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
chlorocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
Trichloroguaiacol	DB-608	2159	1.02E-04	0.22	0.1	1.1
chlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
chloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
chlorocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
Trichlorophenol	DB-608	29352	9.41E-05	2.76	0.1	14

QUANTIFICATIONS

19356

ATI No. 90-05-031-02

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
lorophenol	DB-1	1489	7.62E-05	0.11	1.0	5.7
lorophenol	DB-1		8.63E-05	< 0.05	1.0	< 2.5
lorophenol	DB-1		8.97E-05	< 0.05	1.0	< 2.5
guaiacol	DB-1		2.08E-04	< 0.10	1.0	< 5.0
ichlorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1.0
loroguaiacol	DB-1		1.05E-04	< 0.05	1.0	< 2.5
lorocatechol	DB-1	8915	1.20E-04	1.07	1.0	53
vanillin	DB-1		2.80E-04	< 0.10	1.0	< 5.0
lorocatechol	DB-1		1.13E-04	< 0.50	1.0	< 25
ichloroguaiacol	DB-1		8.49E-05	< 0.02	1.0	< 1.0
lorovanillin	DB-1		1.18E-04	< 0.10	1.0	< 5.0
ringaldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5.0
ichlorocatechol	DB-1		8.37E-05	< 0.05	1.0	< 2.5
osyringol	DB-1		7.95E-05	< 0.05	1.0	< 2.5
lorosyringaldehyde	DB-1		2.12E-04	< 0.25	1.0	< 13
MIX B						
phenol	DB-608	290	1.43E-04	< 0.05	1.0	< 2.5
lorophenol	DB-608		1.00E-04	< 0.02	1.0	< 1.0
ichlorophenol	DB-608		2.02E-04	< 0.05	1.0	< 2.5
guaiacol	DB-608		1.68E-04	< 0.10	1.0	< 5.0
ichlorophenol	DB-608	4806	1.01E-04	0.49	1.0	24
acol	DB-608		8.49E-05	< 0.10	1.0	< 5.0
Tetrachlorophenol	DB-608		1.24E-04	< 0.05	1.0	< 2.5
ichloroguaiacol	DB-608		1.24E-04	< 0.10	1.0	< 5.0
lorocatechol	DB-608	5415	1.70E-04	0.92	1.0	46
ichloroguaiacol	DB-608		1.02E-04	< 0.05	1.0	< 2.5
prophenol	DB-608		5.86E-05	< 0.02	1.0	< 1.0
proguaiacol	DB-608		7.31E-05	< 0.02	1.0	< 1.0
procatechol	DB-608	13917	8.26E-05	1.15	1.0	57
chlorophenol	DB-608	4729	9.41E-05	0.44	1.0	22

QUANTIFICATIONS

19357

ATI No. 90-05-031-03

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1		7.62E-05	< 0.05	1.0	< 3
chlorophenol	DB-1		8.63E-05	< 0.05	1.0	< 3
chlorophenol	DB-1		8.97E-05	< 0.05	1.0	< 3
guaiacol	DB-1		2.08E-04	< 0.10	1.0	< 5
Trichlorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1
chloroguaiacol	DB-1	11599	1.05E-04	1.22	1.0	61
chlorocatechol	DB-1		1.20E-04	< 0.10	1.0	< 5
vanillin	DB-1		2.80E-04	< 0.10	1.0	< 5
chlorocatechol	DB-1		1.13E-04	< 0.50	1.0	< 25
Trichloroguaiacol	DB-1	1251	8.49E-05	0.11	1.0	5
chlorovanillin	DB-1		1.18E-04	< 0.10	1.0	< 5
syringaldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5
Trichlorocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3
osyringol	DB-1	9065	7.95E-05	0.72	1.0	36
chlorosyringaldehyde	DB-1	2730	2.12E-04	0.58	1.0	29
MIX B						
phenol	DB-608		1.43E-04	< 0.05	1.0	< 3
chlorophenol	DB-608		1.00E-04	< 0.02	1.0	< 1
Trichlorophenol	DB-608	2681	2.02E-04	0.54	1.0	27
guaiacol	DB-608		1.68E-04	< 0.10	1.0	< 5
Trichlorophenol	DB-608	3604	1.01E-04	0.36	1.0	18
anisole	DB-608		8.49E-05	< 0.10	1.0	< 5
6-Tetrachlorophenol	DB-608	1700	1.24E-04	0.21	1.0	11
Trichloroguaiacol	DB-608	1626	1.24E-04	0.20	1.0	10
chlorocatechol	DB-608		1.70E-04	< 0.20	1.0	< 10
Trichloroguaiacol	DB-608	24601	1.02E-04	2.51	1.0	125
chlorophenol	DB-608		5.86E-05	< 0.02	1.0	< 1
chloroguaiacol	DB-608	840	7.31E-05	0.06	1.0	3
chlorocatechol	DB-608		8.26E-05	< 0.05	1.0	< 3
Trichlorophenol	DB-608	4829	9.41E-05	0.45	1.0	23

QUANTIFICATIONS

19358

ATT No. 90-05-031-04

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1	7.62E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.63E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.97E-05	<	0.05	0.1	< 0.3
guaiacol	DB-1	2.08E-04	<	0.10	0.1	< 0.5
chlorochlorophenol	DB-1	6.40E-05	<	0.02	0.1	< 0.1
chloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	< 0.3
chlorocatechol	DB-1	1.20E-04	<	0.10	0.1	< 0.5
vanillin	DB-1	2.80E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-1	1.13E-04	<	0.50	0.1	< 2.5
chloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	< 0.1
chlorovanillin	DB-1	1.18E-04	<	0.10	0.1	< 0.5
syringaldehyde	DB-1	3.54E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-1	8.37E-05	<	0.05	0.1	< 0.3
syringol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
chlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	< 1.3
MIX B						
phenol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
chlorophenol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
chlorochlorophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
guaiacol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
chlorophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
guaiacol	DB-608	8.49E-05	<	0.10	0.1	< 0.5
tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
chloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
chloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
chlorophenol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
chloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
chlorocatechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-608	33139	9.41E-05	3.12	0.1	16

QUANTIFICATIONS

19359

ATI No. 90-05-031-05

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1	7.62E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.63E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.97E-05	<	0.05	0.1	< 0.3
guaiacol	DB-1	2.08E-04	<	0.10	0.1	< 0.5
tetrachlorophenol	DB-1	6.40E-05	<	0.02	0.1	< 0.1
chloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	< 0.3
procatechol	DB-1	1.20E-04	<	0.10	0.1	< 0.5
vanillin	DB-1	2.80E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-1	1.13E-04	<	0.50	0.1	< 2.5
chloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	< 0.1
provanillin	DB-1	1.18E-04	<	0.10	0.1	< 0.5
ymaldehyde	DB-1	3.54E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-1	8.37E-05	<	0.05	0.1	< 0.3
rosyringol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
rosyrosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	< 1.3
MIX B						
phenol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
chlorophenol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
tetrachlorophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
guaiacol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
chlorophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
iacol	DB-608	8.49E-05	<	0.10	0.1	< 0.5
Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
chloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
procatechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
chloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
rophenol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
roguaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
rocatechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
tichlorophenol	DB-608	33507	9.41E-05	3.15	0.1	16

QUANTIFICATIONS

19360

ATI No. 90-05-031-06

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1		7.62E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		8.63E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		8.97E-05	< 0.05	0.1	< 0.3
guaiacol	DB-1		2.08E-04	< 0.10	0.1	< 0.5
trichlorophenol	DB-1	325	6.40E-05	0.02	0.1	0.1
hydroguaiacol	DB-1	5435	1.05E-04	0.57	0.1	2.9
borocatechol	DB-1		1.20E-04	< 0.10	0.1	< 0.5
vanillin	DB-1	1005	2.80E-04	0.28	0.1	1.4
borocatechol	DB-1		1.13E-04	< 0.50	0.1	< 2.5
trichloroguaiacol	DB-1		8.49E-05	< 0.02	0.1	< 0.1
hydrovanillin	DB-1		1.18E-04	< 0.10	0.1	< 0.5
yringaldehyde	DB-1		3.54E-04	< 0.10	0.1	< 0.5
trichlorocatechol	DB-1		8.37E-05	< 0.05	0.1	< 0.3
syringol	DB-1	3270	7.95E-05	0.26	0.1	1.3
hydroxyringaldehyde	DB-1	1983	2.12E-04	0.42	0.1	2.1
MIX B						
phenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
chlorophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
trichlorophenol	DB-608	1400	2.02E-04	0.28	0.1	1.4
guaiacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
chlorophenol	DB-608	4417	1.01E-04	0.45	0.1	2.2
iacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
trichloroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
borocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
trichloroguaiacol	DB-608	11711	1.02E-04	1.19	0.1	6.0
lorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
loroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
lorocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
trichlorophenol	DB-608	27246	9.41E-05	2.56	0.1	13

QUANTIFICATIONS

19361

ATT No. 90-05-031-07

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1		7.62E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		8.63E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		8.97E-05	< 0.05	0.1	< 0.3
guaiacol	DB-1		2.08E-04	< 0.10	0.1	< 0.5
chlorophenol	DB-1	445	6.40E-05	0.03	0.1	0.1
guaiacol	DB-1	5482	1.05E-04	0.58	0.1	2.9
catechol	DB-1	7549	1.20E-04	0.91	0.1	4.5
vanillin	DB-1	289	2.80E-04	< 0.10	0.1	< 0.5
catechol	DB-1	2456	1.13E-04	0.28	0.1	1.4
chloroguaiacol	DB-1		8.49E-05	< 0.02	0.1	< 0.1
guavanillin	DB-1		1.18E-04	< 0.10	0.1	< 0.5
aldehyde	DB-1	450	3.54E-04	0.16	0.1	0.8
ichlorocatechol	DB-1		8.37E-05	< 0.05	0.1	< 0.3
osyringol	DB-1	2754	7.95E-05	0.22	0.1	1.1
ldrosyringaldehyde	DB-1	1277	2.12E-04	0.27	0.1	1.4
MIX B						
phenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
chlorophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
chlorophenol	DB-608	2243	2.02E-04	0.45	0.1	2.3
guaiacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
ichlorophenol	DB-608	5400	1.01E-04	0.55	0.1	2.7
anol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
trachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
ichloroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
catechol	DB-608	7093	1.70E-04	1.21	0.1	6.0
ichloroguaiacol	DB-608	9078	1.02E-04	0.93	0.1	4.6
ophenol	DB-608	5539	5.86E-05	0.32	0.1	1.6
oguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
catechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-608	23287	9.41E-05	2.19	0.1	11

QUANTIFICATIONS

19362

ATI No. 90-05-031-08

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1	569	6.02E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		6.97E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
guaiacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5
chlorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
chloroguaiacol	DB-1	2987	7.95E-05	0.24	0.1	1.2
chlorocatechol	DB-1	3680	9.63E-05	0.35	0.1	1.8
vanillin	DB-1	1610	2.22E-04	0.36	0.1	1.8
chlorocatechol	DB-1	2486	9.14E-05	0.23	0.1	1.1
chloroguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1
chlorovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
ringaldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5
chlorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
oxyringol	DB-1	1461	6.12E-05	0.09	0.1	0.4
lorosyringaldehyde	DB-1	1401	1.61E-04	0.23	0.1	1.1
MIX B						
phenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
chlorophenol	DB-608	184	1.00E-04	0.02	0.1	0.1
chlorophenol	DB-608	334	2.02E-04	0.07	0.1	0.3
guaiacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
chlorophenol	DB-608	2207	1.01E-04	0.22	0.1	1.1
acol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
chloroguaiacol	DB-608	2342	1.24E-04	0.29	0.1	1.5
chlorocatechol	DB-608	2997	1.70E-04	0.51	0.1	2.5
chloroguaiacol	DB-608	2183	1.02E-04	0.22	0.1	1.1
chlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
chloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
chlorocatechol	DB-608	823	8.26E-05	0.07	0.1	0.3
chlorophenol	DB-608	20492	9.41E-05	1.93	0.1	10

QUANTIFICATIONS

Blank ATI No. 90-05-033-00

Sample Volume (Vs) = 100 mL
Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (
MIX A						
chlorophenol	DB-1	7.62E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.63E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-1	8.97E-05	<	0.05	0.1	< 0.3
guaiacol	DB-1	2.08E-04	<	0.10	0.1	< 0.5
chlorophenol	DB-1	6.40E-05	<	0.02	0.1	< 0.1
chloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	< 0.3
catechol	DB-1	1.20E-04	<	0.10	0.1	< 0.5
vanillin	DB-1	2.80E-04	<	0.10	0.1	< 0.5
catechol	DB-1	1.13E-04	<	0.50	0.1	< 2.5
chloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	< 0.1
chlorovanillin	DB-1	1.18E-04	<	0.10	0.1	< 0.5
aldehyde	DB-1	3.54E-04	<	0.10	0.1	< 0.5
chlorocatechol	DB-1	8.37E-05	<	0.05	0.1	< 0.3
syringol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
chlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	< 1.3
MIX B						
phenol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
chlorophenol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
chlorophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
guaiacol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
chlorophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
tol	DB-608	8.49E-05	<	0.10	0.1	< 0.5
tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
chloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
catechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
chloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
phenol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
guaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
catechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
chlorophenol	DB-608	49569	9.41E-05	4.66	0.1	23

QUANTIFICATIONS

364

ATI No. 90-05-033-01

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1	1366	6.02E-05	0.08	0.1	0.4
ophenol	DB-1	352	6.97E-05	< 0.05	0.1	< 0.3
ophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
iacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5
lorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
oguaiacol	DB-1	27412	7.95E-05	2.18	0.1	10.9
catechol	DB-1		9.63E-05	< 0.10	0.1	< 0.5
illin	DB-1	464	2.22E-04	0.10	0.1	0.5
catechol	DB-1		9.14E-05	< 0.50	0.1	< 2.5
loroguaiacol	DB-1	1558	6.67E-05	0.10	0.1	0.5
ovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
galdehyde	DB-1	1695	2.35E-04	0.40	0.1	2.0
lorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
sringol	DB-1		6.12E-05	< 0.05	0.1	< 0.3
rosyringaldehyde	DB-1		1.61E-04	< 0.25	0.1	< 1.3
MIX B						
enol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
ophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
lorophenol	DB-608	1129	2.02E-04	0.23	0.1	1.1
iacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
lorophenol	DB-608	1286	1.01E-04	0.13	0.1	0.6
ol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
etrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
loroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
catechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
chloroguaiacol	DB-608	2581	1.02E-04	0.26	0.1	1.3
phenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
guaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
catechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-608	38993	9.41E-05	3.67	0.1	18

QUANTIFICATIONS

19865 ATI No. 90-05-033-02

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1		6.02E-05	< 0.05	0.1	< 0.3
ophenol	DB-1		6.97E-05	< 0.05	0.1	< 0.3
rophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
iacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5
lorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
oguaiacol	DB-1	14528	7.95E-05	1.15	0.1	5.8
cocatechol	DB-1		9.63E-05	< 0.10	0.1	< 0.5
illin	DB-1	210	2.22E-04	< 0.10	0.1	< 0.5
cocatechol	DB-1		9.14E-05	< 0.50	0.1	< 2.5
loroguaiacol	DB-1	442	6.67E-05	0.03	0.1	0.1
ovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
aldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5
lorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
ringol	DB-1	393	6.12E-05	< 0.05	0.1	< 0.3
rosyringaldehyde	DB-1		1.61E-04	< 0.25	0.1	< 1.3
MIX B						
enol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
ophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
lorophenol	DB-608	633	2.02E-04	0.13	0.1	0.6
iacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
lorophenol	DB-608	735	1.01E-04	0.07	0.1	0.4
ol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
trachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
loroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
cocatechol	DB-608	501	1.70E-04	< 0.20	0.1	< 1.0
loroguaiacol	DB-608	1536	1.02E-04	0.16	0.1	0.8
phenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
guaiacol	DB-608	166	7.31E-05	< 0.02	0.1	< 0.1
catechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
lorophenol	DB-608	41477	9.41E-05	3.90	0.1	20

QUANTIFICATIONS

366

ATI No. 90-05-033-03

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1	3519	7.62E-05	0.27	1.0	13
phenol	DB-1		8.63E-05	< 0.05	1.0	< 3
phenol	DB-1		8.97E-05	< 0.05	1.0	< 3
iacol	DB-1		2.08E-04	< 0.10	1.0	< 5
lorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1
guaiacol	DB-1		1.05E-04	< 0.05	1.0	< 3
catechol	DB-1	11231	1.20E-04	1.35	1.0	67
illin	DB-1	1100	2.80E-04	0.31	1.0	15
catechol	DB-1		1.13E-04	< 0.50	1.0	< 25
loroguaiacol	DB-1	565	8.49E-05	0.05	1.0	2
vanillin	DB-1		1.18E-04	< 0.10	1.0	< 5
aldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5
orocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3
ringol	DB-1		7.95E-05	< 0.05	1.0	< 3
syringaldehyde	DB-1	1118	2.12E-04	0.24	1.0	12
MIX B						
ol	DB-608		1.43E-04	< 0.05	1.0	< 3
phenol	DB-608		1.00E-04	< 0.02	1.0	< 1
orophenol	DB-608		2.02E-04	< 0.05	1.0	< 3
acol	DB-608		1.68E-04	< 0.10	1.0	< 5
orophenol	DB-608	5111	1.01E-04	0.52	1.0	26
	DB-608		8.49E-05	< 0.10	1.0	< 5
achlorophenol	DB-608		1.24E-04	< 0.05	1.0	< 3
roguaiacol	DB-608		1.24E-04	< 0.10	1.0	< 5
catechol	DB-608	7181	1.70E-04	1.22	1.0	61
roguaiacol	DB-608		1.02E-04	< 0.05	1.0	< 3
henol	DB-608		5.86E-05	< 0.02	1.0	< 1
uaiacol	DB-608		7.31E-05	< 0.02	1.0	< 1
catechol	DB-608	4813	8.26E-05	0.40	1.0	20
orophenol	DB-608	6024	9.41E-05	0.57	1.0	28

QUANTIFICATIONS

367

ATI No. 90-05-033-04

Sample Volume (Vs) = 100 mL
 Actual Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1		7.62E-05	< 0.05	1.0	< 3
phenol	DB-1		8.63E-05	< 0.05	1.0	< 3
phenol	DB-1		8.97E-05	< 0.05	1.0	< 3
tacol	DB-1	693	2.08E-04	0.14	1.0	7
lorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1
guaiacol	DB-1	12409	1.05E-04	1.30	1.0	65
catechol	DB-1		1.20E-04	< 0.10	1.0	< 5
illin	DB-1		2.80E-04	< 0.10	1.0	< 5
catechol	DB-1	1242	1.13E-04	0.14	1.0	7
loroguaiacol	DB-1	1325	8.49E-05	0.11	1.0	6
vanillin	DB-1		1.18E-04	< 0.10	1.0	< 5
aldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5
orocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3
ringol	DB-1	11332	7.95E-05	0.90	1.0	45
psyringaldehyde	DB-1	4302	2.12E-04	0.91	1.0	46
MIX B						
tol	DB-608		1.43E-04	< 0.05	1.0	< 3
phenol	DB-608	735	1.00E-04	0.07	1.0	4
lorophenol	DB-608	2257	2.02E-04	0.46	1.0	23
tacol	DB-608		1.68E-04	< 0.10	1.0	< 5
lorophenol	DB-608	5636	1.01E-04	0.57	1.0	28
guaiacol	DB-608		8.49E-05	< 0.10	1.0	< 5
chlorophenol	DB-608	2731	1.24E-04	0.34	1.0	17
loroguaiacol	DB-608	2502	1.24E-04	0.31	1.0	16
catechol	DB-608		1.70E-04	< 0.20	1.0	< 10
loroguaiacol	DB-608	28289	1.02E-04	2.89	1.0	144
phenol	DB-608		5.86E-05	< 0.02	1.0	< 1
guaiacol	DB-608	2252	7.31E-05	0.16	1.0	8
catechol	DB-608		8.26E-05	< 0.05	1.0	< 3
lorophenol	DB-608	6373	9.41E-05	0.60	1.0	30

QUANTIFICATIONS

B68

ATI No. 90-05-033-05

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1	6.02E-05	<	0.05	0.1	< 0.3
ophenol	DB-1	6.97E-05	<	0.05	0.1	< 0.3
ophenol	DB-1	7.89E-05	<	0.05	0.1	< 0.3
iacol	DB-1	1.66E-04	<	0.10	0.1	< 0.5
lorophenol	DB-1	5.07E-05	<	0.02	0.1	< 0.1
guaiacol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
catechol	DB-1	9.63E-05	<	0.10	0.1	< 0.5
illin	DB-1	2.22E-04	<	0.10	0.1	< 0.5
catechol	DB-1	9.14E-05	<	0.50	0.1	< 2.5
loroguaiacol	DB-1	6.67E-05	<	0.02	0.1	< 0.1
ovanillin	DB-1	9.38E-05	<	0.10	0.1	< 0.5
galdehyde	DB-1	2.35E-04	<	0.10	0.1	< 0.5
lorocatechol	DB-1	6.64E-05	<	0.05	0.1	< 0.3
ringol	DB-1	6.12E-05	<	0.05	0.1	< 0.3
psyringaldehyde	DB-1	1.61E-04	<	0.25	0.1	< 1.3
MIX B						
nol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
phenol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
lorophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
iacol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
lorophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
1	DB-608	8.49E-05	<	0.10	0.1	< 0.5
trachlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
loroguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
catechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
loroguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
phenol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
guaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
catechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
lorophenol	DB-608	48060	9.41E-05	4.52	0.1	23

QUANTIFICATIONS

9369

ATI No. 90-05-033-06

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1	6.02E-05	<	0.05	0.1	< 0.3
rophenol	DB-1	6.97E-05	<	0.05	0.1	< 0.3
rophenol	DB-1	7.89E-05	<	0.05	0.1	< 0.3
aiacol	DB-1	1.66E-04	<	0.10	0.1	< 0.5
lorophenol	DB-1	5.07E-05	<	0.02	0.1	< 0.1
roguaiaiacol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
cocatechol	DB-1	9.63E-05	<	0.10	0.1	< 0.5
illin	DB-1	2.22E-04	<	0.10	0.1	< 0.5
cocatechol	DB-1	9.14E-05	<	0.50	0.1	< 2.5
loroguaiaiacol	DB-1	6.67E-05	<	0.02	0.1	< 0.1
ovanillin	DB-1	9.38E-05	<	0.10	0.1	< 0.5
galdehyde	DB-1	2.35E-04	<	0.10	0.1	< 0.5
lorocatechol	DB-1	6.64E-05	<	0.05	0.1	< 0.3
ringol	DB-1	6.12E-05	<	0.05	0.1	< 0.3
rosyringaldehyde	DB-1	1.61E-04	<	0.25	0.1	< 1.3
MIX B						
enol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
rophenol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
lorophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
aiacol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
lorophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
ol	DB-608	8.49E-05	<	0.10	0.1	< 0.5
trachlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
loroguaiaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
cocatechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
loroguaiaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
phenol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
guaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
cocatechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
lorophenol	DB-608	22386	9.41E-05	2.11	0.1	11

QUANTIFICATIONS

ATI No. 90-05-033-07

Sample Volume (Vs) = 100 mL
 Actual Volume (Ve) = 5 mL

COMPONENT	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1		6.02E-05	< 0.05	0.2	< 0.5
phenol	DB-1		6.97E-05	< 0.05	0.2	< 0.5
phenol	DB-1		7.89E-05	< 0.05	0.2	< 0.5
acol	DB-1		1.66E-04	< 0.10	0.2	< 1.0
orophenol	DB-1		5.07E-05	< 0.02	0.2	< 0.2
guaiacol	DB-1		7.95E-05	< 0.05	0.2	< 0.5
catechol	DB-1		9.63E-05	< 0.10	0.2	< 1.0
lin	DB-1	2208	2.22E-04	0.49	0.2	4.9
catechol	DB-1		9.14E-05	< 0.50	0.2	< 5.0
roguaiacol	DB-1		6.67E-05	< 0.02	0.2	< 0.2
vanillin	DB-1		9.38E-05	< 0.10	0.2	< 1.0
ldehyde	DB-1		2.35E-04	< 0.10	0.2	< 1.0
rocatechol	DB-1	10888	6.64E-05	0.72	0.2	7.2
ngol	DB-1	6717	6.12E-05	0.41	0.2	4.1
wringaldehyde	DB-1	2456	1.61E-04	0.40	0.2	4.0
MIX B						
l	DB-608	347	1.43E-04	0.05	0.2	0.5
henol	DB-608		1.00E-04	< 0.02	0.2	< 0.2
rophenol	DB-608	980	2.02E-04	0.20	0.2	2.0
col	DB-608		1.68E-04	< 0.10	0.2	< 1.0
rophenol	DB-608	3794	1.01E-04	0.38	0.2	3.8
	DB-608		8.49E-05	< 0.10	0.2	< 1.0
chlorophenol	DB-608		1.24E-04	< 0.05	0.2	< 0.5
roguaiacol	DB-608		1.24E-04	< 0.10	0.2	< 1.0
atechol	DB-608		1.70E-04	< 0.20	0.2	< 2.0
roguaicacol	DB-608	9550	1.02E-04	0.97	0.2	9.7
enol	DB-608	8909	5.86E-05	0.52	0.2	5.2
aiacol	DB-608	4765	7.31E-05	0.35	0.2	3.5
techol	DB-608		8.26E-05	< 0.05	0.2	< 0.5
rophenol	DB-608	22292	9.41E-05	2.10	0.2	21

QUANTIFICATIONS

ATI No. 90-05-033-08

Sample Volume (Vs) = 100 mL
 Actual Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
phenol	DB-1		6.02E-05	< 0.05	0.2	< 0.5
phenol	DB-1	370	6.97E-05	< 0.05	0.2	< 0.5
phenol	DB-1		7.89E-05	< 0.05	0.2	< 0.5
col	DB-1		1.66E-04	< 0.10	0.2	< 1.0
rophenol	DB-1	559	5.07E-05	0.03	0.2	0.3
uiaiacol	DB-1	5563	7.95E-05	0.44	0.2	4.4
atechol	DB-1	5414	9.63E-05	0.52	0.2	5.2
lin	DB-1	795	2.22E-04	0.18	0.2	1.8
atechol	DB-1		9.14E-05	< 0.50	0.2	< 5.0
roguaiaicol	DB-1	1054	6.67E-05	0.07	0.2	0.7
anillin	DB-1		9.38E-05	< 0.10	0.2	< 1.0
ldehyde	DB-1		2.35E-04	< 0.10	0.2	< 1.0
rocatechol	DB-1		6.64E-05	< 0.05	0.2	< 0.5
ngol	DB-1		6.12E-05	< 0.05	0.2	< 0.5
yringaldehyde	DB-1	1731	1.61E-04	0.28	0.2	2.8
IX B						
ol	DB-608		1.43E-04	< 0.05	0.2	< 0.5
henol	DB-608	700	1.00E-04	0.07	0.2	0.7
rophenol	DB-608	1620	2.02E-04	0.33	0.2	3.3
col	DB-608		1.68E-04	< 0.10	0.2	< 1.0
rophenol	DB-608	4823	1.01E-04	0.49	0.2	4.9
	DB-608		8.49E-05	< 0.10	0.2	< 1.0
chlorophenol	DB-608		1.24E-04	< 0.05	0.2	< 0.5
roguaiaicol	DB-608	1058	1.24E-04	0.13	0.2	1.3
atechol	DB-608	4926	1.70E-04	0.84	0.2	8.4
roguaiaicol	DB-608	8771	1.02E-04	0.89	0.2	8.9
enol	DB-608	4016	5.86E-05	0.24	0.2	2.4
aiacol	DB-608		7.31E-05	< 0.02	0.2	< 0.2
techol	DB-608		8.26E-05	< 0.05	0.2	< 0.5
rophenol	DB-608	22366	9.41E-05	2.10	0.2	21

QUANTIFICATIONS

ATI No. 90-05-033-09

Ple Volume (Vs) = 100 mL
 act Volume (Ve) = 5 mL

MPUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
phenol	DB-1		6.02E-05	< 0.05	0.1	< 0.3
phenol	DB-1		6.97E-05	< 0.05	0.1	< 0.3
phenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
icol	DB-1		1.66E-04	< 0.10	0.1	< 0.5
rophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
uaiacol	DB-1	3504	7.95E-05	0.28	0.1	1.4
atechol	DB-1	2850	9.63E-05	0.27	0.1	1.4
lin	DB-1	2745	2.22E-04	0.61	0.1	3.0
atechol	DB-1	3053	9.14E-05	0.28	0.1	1.4
roguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1
anillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
aldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5
rocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
ngol	DB-1		6.12E-05	< 0.05	0.1	< 0.3
syringaldehyde	DB-1	1557	1.61E-04	0.25	0.1	1.3
IX B						
ol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
henol	DB-608	359	1.00E-04	0.04	0.1	0.2
rophenol	DB-608	576	2.02E-04	0.12	0.1	0.6
icol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
rophenol	DB-608	2746	1.01E-04	0.28	0.1	1.4
DB-608			8.49E-05	< 0.10	0.1	< 0.5
ichlorophenol	DB-608	1787	1.24E-04	0.22	0.1	1.1
roguaiacol	DB-608	1330	1.24E-04	0.16	0.1	0.8
atechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
roguaiacol	DB-608		1.02E-04	< 0.05	0.1	< 0.3
enol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
uaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
atechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
rophenol	DB-608	36106	9.41E-05	3.40	0.1	17

QUANTIFICATIONS

ATI No. 90-05-033-10

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

POUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
K A						
enol	DB-1	711	6.02E-05	< 0.05	0.1	< 0.3
enol	DB-1	268	6.97E-05	< 0.05	0.1	< 0.3
enol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
ol	DB-1		1.66E-04	< 0.10	0.1	< 0.5
ophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
aiacol	DB-1	4740	7.95E-05	0.38	0.1	1.9
techol	DB-1	3876	9.63E-05	0.37	0.1	1.9
in	DB-1	2733	2.22E-04	0.61	0.1	3.0
techol	DB-1		9.14E-05	< 0.50	0.1	< 2.5
oguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1
illin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
dehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5
catechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
ol	DB-1	2878	6.12E-05	0.18	0.1	0.9
ringaldehyde	DB-1	2747	1.61E-04	0.44	0.1	2.2
K B						
enol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
enol	DB-608	403	1.00E-04	0.04	0.1	0.2
ophenol	DB-608	549	2.02E-04	0.11	0.1	0.6
ol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
ophenol	DB-608	3088	1.01E-04	0.31	0.1	1.6
chlorophenol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
oguaiacol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
techol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
oguaiacol	DB-608		1.02E-04	< 0.05	0.1	< 0.3
ol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
iacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
echol	DB-608	1164	8.26E-05	0.10	0.1	0.5
ophenol	DB-608	28856	9.41E-05	2.72	0.1	14

QUANTIFICATIONS

ATI No. 90-05-037-00

Sample Volume (Vs) = 100 mL
 Inject Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
phenol	DB-1	7.62E-05	<	0.05	0.1	< 0.3
phenol	DB-1	8.63E-05	<	0.05	0.1	< 0.3
phenol	DB-1	8.97E-05	<	0.05	0.1	< 0.3
icol	DB-1	2.08E-04	<	0.10	0.1	< 0.5
rophenol	DB-1	6.40E-05	<	0.02	0.1	< 0.1
uaiacol	DB-1	1.05E-04	<	0.05	0.1	< 0.3
atechol	DB-1	1.20E-04	<	0.10	0.1	< 0.5
lin	DB-1	2.80E-04	<	0.10	0.1	< 0.5
atechol	DB-1	1.13E-04	<	0.50	0.1	< 2.5
roguaiacol	DB-1	8.49E-05	<	0.02	0.1	< 0.1
anillin	DB-1	1.18E-04	<	0.10	0.1	< 0.5
ldehyde	DB-1	3.54E-04	<	0.10	0.1	< 0.5
rocatechol	DB-1	8.37E-05	<	0.05	0.1	< 0.3
ngol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
syringaldehyde	DB-1	2.12E-04	<	0.25	0.1	< 1.3
IX B						
ol	DB-608	1.43E-04	<	0.05	0.1	< 0.3
henol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
rophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
icol	DB-608	1.68E-04	<	0.10	0.1	< 0.5
rophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
	DB-608	8.49E-05	<	0.10	0.1	< 0.5
ichlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
roguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5
atechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
roguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3
enol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
uaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
atechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
rophenol	DB-608	38397	9.41E-05	3.61	0.1	18

QUANTIFICATIONS

ATI No. 90-05-037-01

Sample Volume (Vs) = 100 mL
 Actual Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF)	Conc. in Extract Ce (ug/mL)	Conc/Dil Factor (X)	Sample Conc. Cs (ug/L)	(4)
IX A							
phenol	DB-1	6.02E-05	<	0.05	0.1	<	0.3
phenol	DB-1	6.97E-05	<	0.05	0.1	<	0.3
phenol	DB-1	7.89E-05	<	0.05	0.1	<	0.3
col	DB-1	1.66E-04	<	0.10	0.1	<	0.5
rophenol	DB-1	5.07E-05	<	0.02	0.1	<	0.1
guaiacol	DB-1	7.95E-05	<	0.05	0.1	<	0.3
catechol	DB-1	9.63E-05	<	0.10	0.1	<	0.5
lin	DB-1	2.22E-04	<	0.10	0.1	<	0.5
catechol	DB-1	9.14E-05	<	0.50	0.1	<	2.5
roguaiacol	DB-1	6.67E-05	<	0.02	0.1	<	0.1
anillin	DB-1	9.38E-05	<	0.10	0.1	<	0.5
aldehyde	DB-1	2.35E-04	<	0.10	0.1	<	0.5
rocatechol	DB-1	6.64E-05	<	0.05	0.1	<	0.3
ngol	DB-1	6.12E-05	<	0.05	0.1	<	0.3
yringaldehyde	DB-1	1.61E-04	<	0.25	0.1	<	1.3
IX B							
l	DB-608	1.43E-04	<	0.05	0.1	<	0.3
henol	DB-608	1.00E-04	<	0.02	0.1	<	0.1
rophenol	DB-608	2.02E-04	<	0.05	0.1	<	0.3
col	DB-608	1.68E-04	<	0.10	0.1	<	0.5
rophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3
	DB-608	8.49E-05	<	0.10	0.1	<	0.5
chlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3
roguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5
catechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0
roguaiacl	DB-608	1.02E-04	<	0.05	0.1	<	0.3
enol	DB-608	5.86E-05	<	0.02	0.1	<	0.1
aiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1
techol	DB-608	8.26E-05	<	0.05	0.1	<	0.3
rophenol	DB-608	55048	9.41E-05	5.18	0.1		26

QUANTIFICATIONS

76

ATI No. 90-05-037-02

Ple Volume (Vs) = 100 mL
 act Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1		6.02E-05	< 0.05	0.1	< 0.3
phenol	DB-1	363	6.97E-05	< 0.05	0.1	< 0.3
phenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
acol	DB-1	1723	1.66E-04	0.29	0.1	1.4
rophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
guaiacol	DB-1		7.95E-05	< 0.05	0.1	< 0.3
catechol	DB-1	1717	9.63E-05	0.17	0.1	0.8
llin	DB-1		2.22E-04	< 0.10	0.1	< 0.5
catechol	DB-1	1908	9.14E-05	0.17	0.1	0.9
roguaiacol	DB-1	2304	6.67E-05	0.15	0.1	0.8
vanillin	DB-1	3573	9.38E-05	0.34	0.1	1.7
aldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5
rocatechol	DB-1	1919	6.64E-05	0.13	0.1	0.6
ingol	DB-1	572	6.12E-05	0.04	0.1	0.2
syringaldehyde	DB-1		1.61E-04	< 0.25	0.1	< 1.3
MIX B						
ol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
phenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
rophenol	DB-608	209	2.02E-04	< 0.05	0.1	< 0.3
acol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
rophenol	DB-608	2827	1.01E-04	0.29	0.1	1.4
ichlorophenol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
roguaiacol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
catechol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
roguaiacol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
enol	DB-608	1430	1.02E-04	< 0.05	0.1	< 0.3
aiacol	DB-608	2495	5.86E-05	0.08	0.1	0.4
catechol	DB-608		7.31E-05	0.18	0.1	0.9
rophenol	DB-608	71068	8.26E-05	< 0.05	0.1	< 0.3
				6.69	0.1	33

QUANTIFICATIONS

ATI No. 90-05-037-03

Sample Volume (Vs) = 100 mL
 Inject Volume (Ve) = 5 mL

MPUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
phenol	DB-1		7.62E-05	< 0.05	1.0	< 3
phenol	DB-1		8.63E-05	< 0.05	1.0	< 3
phenol	DB-1	536	8.97E-05	< 0.05	1.0	< 3
col	DB-1	853	2.08E-04	0.18	1.0	9
rophenol	DB-1		6.40E-05	< 0.02	1.0	< 1
uaiacol	DB-1		1.05E-04	< 0.05	1.0	< 3
atechol	DB-1	16407	1.20E-04	1.97	1.0	98
lin	DB-1		2.80E-04	< 0.10	1.0	< 5
atechol	DB-1		1.13E-04	< 0.50	1.0	< 25
roguaiaicol	DB-1		8.49E-05	< 0.02	1.0	< 1
anillin	DB-1		1.18E-04	< 0.10	1.0	< 5
ldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5
rocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3
ngol	DB-1		7.95E-05	< 0.05	1.0	< 3
yringaldehyde	DB-1		2.12E-04	< 0.25	1.0	< 13
IX B						
l	DB-608	441	1.43E-04	0.06	1.0	3
henol	DB-608		1.00E-04	< 0.02	1.0	< 1
rophenol	DB-608		2.02E-04	< 0.05	1.0	< 3
col	DB-608		1.68E-04	< 0.10	1.0	< 5
rophenol	DB-608	8102	1.01E-04	0.82	1.0	41
uaiacol	DB-608		8.49E-05	< 0.10	1.0	< 5
chlorophenol	DB-608		1.24E-04	< 0.05	1.0	< 3
roguaiaicol	DB-608		1.24E-04	< 0.10	1.0	< 5
atechol	DB-608	9107	1.70E-04	1.55	1.0	77
roguaiaicol	DB-608		1.02E-04	< 0.05	1.0	< 3
enol	DB-608		5.86E-05	< 0.02	1.0	< 1
aiacol	DB-608		7.31E-05	< 0.02	1.0	< 1
techol	DB-608	6254	8.26E-05	0.52	1.0	26
rophenol	DB-608	7782	9.41E-05	0.73	1.0	37

QUANTIFICATIONS

ATI No. 90-05-037-04

Sample Volume (Vs) = 100 mL
 Inject Volume (Ve) = 5 mL

MPUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
phenol	DB-1		7.62E-05	< 0.05	1.0	< 3
phenol	DB-1		8.63E-05	< 0.05	1.0	< 3
phenol	DB-1		8.97E-05	< 0.05	1.0	< 3
col	DB-1		2.08E-04	< 0.10	1.0	< 5
rophenol	DB-1		6.40E-05	< 0.02	1.0	< 1
uaiaacol	DB-1	12113	1.05E-04	1.27	1.0	64
atechol	DB-1		1.20E-04	< 0.10	1.0	< 5
lin	DB-1		2.80E-04	< 0.10	1.0	< 5
atechol	DB-1		1.13E-04	< 0.50	1.0	< 25
roguaiaacol	DB-1	2549	8.49E-05	0.22	1.0	11
anillin	DB-1		1.18E-04	< 0.10	1.0	< 5
ldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5
rocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3
ngol	DB-1	9909	7.95E-05	0.79	1.0	39
yringaldehyde	DB-1	1298	2.12E-04	0.28	1.0	14
IX B						
1	DB-608		1.43E-04	< 0.05	1.0	< 3
henol	DB-608	995	1.00E-04	0.10	1.0	< 5
rophenol	DB-608	2698	2.02E-04	0.54	1.0	27
col	DB-608		1.68E-04	< 0.10	1.0	< 5
rophenol	DB-608	5738	1.01E-04	0.58	1.0	29
uaiaacol	DB-608		8.49E-05	< 0.10	1.0	< 5
chlorophenol	DB-608		1.24E-04	< 0.05	1.0	< 3
roguaiaacol	DB-608	2136	1.24E-04	0.26	1.0	13
atechol	DB-608		1.70E-04	< 0.20	1.0	< 10
roguaiaacol	DB-608	24506	1.02E-04	2.50	1.0	125
enol	DB-608		5.86E-05	< 0.02	1.0	< 1
iaiacol	DB-608		7.31E-05	< 0.02	1.0	< 1
techol	DB-608		8.26E-05	< 0.05	1.0	< 3
rophenol	DB-608	6784	9.41E-05	0.64	1.0	32

QUANTIFICATIONS

19379

ATI No. 90-05-037-05

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
chlorophenol	DB-1		6.02E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-1	3577	6.97E-05	0.25	0.1	1.2
chlorophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
guaiacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5
chlorochlorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
chloroguaiacol	DB-1		7.95E-05	< 0.05	0.1	< 0.3
chlorocatechol	DB-1		9.63E-05	< 0.10	0.1	< 0.5
vanillin	DB-1		2.22E-04	< 0.10	0.1	< 0.5
chlorocatechol	DB-1		9.14E-05	< 0.50	0.1	< 2.5
chloroguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1
chlorovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
ringaldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5
chlorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
osyringol	DB-1		6.12E-05	< 0.05	0.1	< 0.3
lorosyringaldehyde	DB-1		1.61E-04	< 0.25	0.1	< 1.3
MIX B						
phenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3
chlorophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1
chlorophenol	DB-608		2.02E-04	< 0.05	0.1	< 0.3
guaiacol	DB-608		1.68E-04	< 0.10	0.1	< 0.5
chlorophenol	DB-608		1.01E-04	< 0.05	0.1	< 0.3
acol	DB-608		8.49E-05	< 0.10	0.1	< 0.5
Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3
chloroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
chlorocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0
chloroguaiacol	DB-608		1.02E-04	< 0.05	0.1	< 0.3
orophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1
oroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
orocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
chlorophenol	DB-608	99712	9.41E-05	9.38	0.1	47

QUANTIFICATIONS

ATI No. 90-05-037-06

Sample Volume (Vs) = 100 mL
 Inject Volume (Ve) = 5 mL

MPUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
phenol	DB-1	6.02E-05	<	0.05	0.1	< 0.3
phenol	DB-1	6.97E-05	<	0.05	0.1	< 0.3
phenol	DB-1	7.89E-05	<	0.05	0.1	< 0.3
col	DB-1	1.66E-04	<	0.10	0.1	< 0.5
rophenol	DB-1	5.07E-05	<	0.02	0.1	< 0.1
uaiacol	DB-1	7.95E-05	<	0.05	0.1	< 0.3
atechol	DB-1	9.63E-05	<	0.10	0.1	< 0.5
lin	DB-1	2.22E-04	<	0.10	0.1	< 0.5
atechol	DB-1	9.14E-05	<	0.50	0.1	< 2.5
roguaia col	DB-1	6.67E-05	<	0.02	0.1	< 0.1
anillin	DB-1	9.38E-05	<	0.10	0.1	< 0.5
ldehyde	DB-1	2.35E-04	<	0.10	0.1	< 0.5
rocatechol	DB-1	6.64E-05	<	0.05	0.1	< 0.3
ngol	DB-1	6.12E-05	<	0.05	0.1	< 0.3
yringaldehyde	DB-1	1.61E-04	<	0.25	0.1	< 1.3
IX B						
1	DB-608	1.43E-04	<	0.05	0.1	< 0.3
henol	DB-608	1.00E-04	<	0.02	0.1	< 0.1
rophenol	DB-608	2.02E-04	<	0.05	0.1	< 0.3
col	DB-608	1.68E-04	<	0.10	0.1	< 0.5
rophenol	DB-608	1.01E-04	<	0.05	0.1	< 0.3
	DB-608	8.49E-05	<	0.10	0.1	< 0.5
chlorophenol	DB-608	1.24E-04	<	0.05	0.1	< 0.3
roguaia col	DB-608	1.24E-04	<	0.10	0.1	< 0.5
atechol	DB-608	1.70E-04	<	0.20	0.1	< 1.0
roguaia col	DB-608	1.02E-04	<	0.05	0.1	< 0.3
enol	DB-608	5.86E-05	<	0.02	0.1	< 0.1
aiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1
techol	DB-608	8.26E-05	<	0.05	0.1	< 0.3
rophenol	DB-608	20999	9.41E-05	1.98	0.1	10

QUANTIFICATIONS

81

ATI No. 90-05-037-07

Sample Volume (Vs) = 100 mL
 Actual Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
MIX A						
phenol	DB-1	732	6.02E-05	< 0.05	0.2	< 0.5
phenol	DB-1		6.97E-05	< 0.05	0.2	< 0.5
phenol	DB-1		7.89E-05	< 0.05	0.2	< 0.5
acol	DB-1	1230	1.66E-04	0.20	0.2	2.0
orophenol	DB-1		5.07E-05	< 0.02	0.2	< 0.2
guaiacol	DB-1		7.95E-05	< 0.05	0.2	< 0.5
catechol	DB-1	3960	9.63E-05	0.38	0.2	3.8
llin	DB-1	1023	2.22E-04	0.23	0.2	2.3
catechol	DB-1	2464	9.14E-05	0.23	0.2	2.3
oroguaiacol	DB-1		6.67E-05	< 0.02	0.2	< 0.2
vanillin	DB-1	8081	9.38E-05	0.76	0.2	7.6
aldehyde	DB-1		2.35E-04	< 0.10	0.2	< 1.0
procatechol	DB-1		6.64E-05	< 0.05	0.2	< 0.5
ingol	DB-1		6.12E-05	< 0.05	0.2	< 0.5
syringaldehyde	DB-1		1.61E-04	< 0.25	0.2	< 2.5
MIX B						
ol	DB-608		1.43E-04	< 0.05	0.2	< 0.5
phenol	DB-608		1.00E-04	< 0.02	0.2	< 0.2
orophenol	DB-608	542	2.02E-04	0.11	0.2	1.1
acol	DB-608		1.68E-04	< 0.10	0.2	< 1.0
orophenol	DB-608	3886	1.01E-04	0.39	0.2	3.9
achlorophenol	DB-608		8.49E-05	< 0.10	0.2	< 1.0
oroguaiacol	DB-608		1.24E-04	< 0.05	0.2	< 0.5
catechol	DB-608		1.24E-04	< 0.10	0.2	< 1.0
oroguaiacol	DB-608		1.70E-04	< 0.20	0.2	< 2.0
henol	DB-608		1.02E-04	< 0.05	0.2	< 0.5
uaiacol	DB-608		5.86E-05	< 0.02	0.2	< 0.2
catechol	DB-608		7.31E-05	< 0.02	0.2	< 0.2
orophenol	DB-608	29650	8.26E-05	< 0.05	0.2	< 0.5
				2.79	0.2	28

QUANTIFICATIONS

2

ATI No. 90-05-037-08

Sample Volume (Vs) = 100 mL
 Extract Volume (Ve) = 5 mL

MPUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
henol	DB-1		6.02E-05	< 0.05	0.2	< 0.5
henol	DB-1		6.97E-05	< 0.05	0.2	< 0.5
henol	DB-1		7.89E-05	< 0.05	0.2	< 0.5
col	DB-1		1.66E-04	< 0.10	0.2	< 1.0
rophenol	DB-1	1731	5.07E-05	0.09	0.2	0.9
uaiacol	DB-1	9985	7.95E-05	0.79	0.2	7.9
atechol	DB-1	11720	9.63E-05	1.13	0.2	11.3
lin	DB-1	797	2.22E-04	0.18	0.2	1.8
atechol	DB-1	3538	9.14E-05	0.32	0.2	3.2
roguaiaacol	DB-1	2674	6.67E-05	0.18	0.2	1.8
anillin	DB-1		9.38E-05	< 0.10	0.2	< 1.0
ldehyde	DB-1		2.35E-04	< 0.10	0.2	< 1.0
rocatechol	DB-1		6.64E-05	< 0.05	0.2	< 0.5
ngol	DB-1	6339	6.12E-05	0.39	0.2	3.9
yringaldehyde	DB-1	2687	1.61E-04	0.43	0.2	4.3
IX B						
l	DB-608	692	1.43E-04	0.10	0.2	1.0
henol	DB-608	1134	1.00E-04	0.11	0.2	1.1
rophenol	DB-608	2339	2.02E-04	0.47	0.2	4.7
col	DB-608		1.68E-04	< 0.10	0.2	< 1.0
rophenol	DB-608	6515	1.01E-04	0.66	0.2	6.6
	DB-608		8.49E-05	< 0.10	0.2	< 1.0
chlorophenol	DB-608		1.24E-04	< 0.05	0.2	< 0.5
roguaiaacol	DB-608		1.24E-04	< 0.10	0.2	< 1.0
atechol	DB-608	7389	1.70E-04	1.26	0.2	12.6
roguaiaacol	DB-608	12747	1.02E-04	1.30	0.2	13.0
enol	DB-608		5.86E-05	< 0.02	0.2	< 0.2
aiacol	DB-608		7.31E-05	< 0.02	0.2	< 0.2
techol	DB-608		8.26E-05	< 0.05	0.2	< 0.5
rophenol	DB-608	28385	9.41E-05	2.67	0.2	27

QUANTIFICATIONS

ATI No. 90-05-037-09

Re Volume (Vs) = 100 mL
 Ret Volume (Ve) = 5 mL

MPUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)
IX A						
henol	DB-1		6.02E-05	< 0.05	0.1	< 0.3
henol	DB-1		6.97E-05	< 0.05	0.1	< 0.3
henol	DB-1		7.89E-05	< 0.05	0.1	< 0.3
col	DB-1		1.66E-04	< 0.10	0.1	< 0.5
rophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1
uaiacol	DB-1	17134	7.95E-05	1.36	0.1	6.8
atechol	DB-1	14661	9.63E-05	1.41	0.1	7.1
lin	DB-1	6356	2.22E-04	1.41	0.1	7.1
atechol	DB-1		9.14E-05	< 0.50	0.1	< 2.5
roguaiaicol	DB-1		6.67E-05	< 0.02	0.1	< 0.1
anillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5
ldehyde	DB-1	4925	2.35E-04	1.16	0.1	5.8
rocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3
ngol	DB-1	8674	6.12E-05	0.53	0.1	2.7
yringaldehyde	DB-1	7300	1.61E-04	1.18	0.1	5.9
IX B						
l	DB-608		1.43E-04	< 0.05	0.1	< 0.3
henol	DB-608	1788	1.00E-04	0.18	0.1	0.9
rophenol	DB-608	1880	2.02E-04	0.38	0.1	1.9
col	DB-608		1.68E-04	< 0.10	0.1	< 0.5
rophenol	DB-608	8465	1.01E-04	0.85	0.1	4.3
	DB-608		8.49E-05	< 0.10	0.1	< 0.5
chlorophenol	DB-608	4221	1.24E-04	0.52	0.1	2.6
roguaiaicol	DB-608		1.24E-04	< 0.10	0.1	< 0.5
atechol	DB-608	12312	1.70E-04	2.09	0.1	10.5
roguaiaicol	DB-608		1.02E-04	< 0.05	0.1	< 0.3
enol	DB-608	11048	5.86E-05	0.65	0.1	3.2
aiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1
techol	DB-608		8.26E-05	< 0.05	0.1	< 0.3
rophenol	DB-608	79870	9.41E-05	7.52	0.1	38

IDENTIFICATIONS

pk 1

ATI No. 90-05-031-00

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
IX A							
phenol	DB-1	5.34	to 5.68	5.26	to 5.61		
phenol	DB-1	6.10	to 6.49	4.84	to 5.23		
phenol	DB-1	7.02	to 7.45	6.30	to 6.73		
col	DB-1	7.41	to 7.86	8.03	to 8.48		
rophenol	DB-1	9.15	to 9.66	9.02	to 9.53		
uiaiacol	DB-1	10.86	to 11.44	11.54	to 12.13		
atechol	DB-1	13.45	to 14.14	13.79	to 14.48		
lin	DB-1	14.12	to 14.79	16.49	to 17.16		
atechol	DB-1	14.89	to 15.59	16.47	to 17.18		
roguaiaacol	DB-1	16.89	to 17.62	16.46	to 17.19		
anillin	DB-1	19.41	to 20.17	21.60	to 22.36		
ldehyde	DB-1	19.93	to 20.71	23.22	to 24.00		
rocatechol	DB-1	21.00	to 21.76	22.43	to 23.19		
ngol	DB-1	22.71	to 23.49	23.22	to 24.01		
yringaldehyde	DB-1	26.22	to 27.05	28.16	to 28.99		
IX B							
l	DB-608	3.88	to 4.06	3.41	to 3.59		
henol	DB-608	5.80	to 6.07	5.22	to 5.49		
col	DB-608	7.25	to 7.57	8.09	to 8.41		
rophenol	DB-608	8.10	to 8.43	7.18	to 7.52		
rophenol	DB-608	9.74	to 10.11	8.70	to 9.07		
	DB-608	12.51	to 12.95	13.09	to 13.53		
chlorophenol	DB-608	13.99	to 14.45	13.50	to 13.96		
roguaiaacol	DB-608	14.56	to 15.04	14.13	to 14.61		
atechol	DB-608	16.02	to 16.50	16.33	to 16.82		
roguaiaacol	DB-608	18.08	to 18.60	19.74	to 20.26		
enol	DB-608	21.16	to 21.72	19.97	to 20.53		
aiacol	DB-608	22.21	to 22.75	21.82	to 22.36		
techol	DB-608	26.08	to 26.65	26.73	to 27.30		
rophenol	DB-608	11.88	11.59 to 12.04	10.56	10.30 to 10.75		

IDENTIFICATIONS

9355

ATT No. 90-05-031-01

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
prophenol	DB-1	5.34	to 5.68			5.26	to 5.61
rophenol	DB-1	6.10	to 6.49			4.84	to 5.23
rophenol	DB-1	7.02	to 7.45			6.30	to 6.73
taiacol	DB-1	7.41	to 7.86			8.03	to 8.48
chlorophenol	DB-1	9.15	to 9.66			9.02	to 9.53
roguaiaacol	DB-1	10.93	10.86 to 11.44	11.86		11.54	to 12.13
rocatechol	DB-1		13.45 to 14.14			13.79	to 14.48
inillin	DB-1	14.46	14.12 to 14.79	16.72		16.49	to 17.16
rocatechol	DB-1		14.89 to 15.59			16.47	to 17.18
chloroguaiaacol	DB-1	17.27	16.89 to 17.62	16.72		16.46	to 17.19
rovanillin	DB-1		19.41 to 20.17			21.60	to 22.36
ngaldehyde	DB-1	20.32	19.93 to 20.71	23.82		23.22	to 24.00
chlorocatechol	DB-1		21.00 to 21.76			22.43	to 23.19
syringol	DB-1	23.12	22.71 to 23.49	23.82		23.22	to 24.01
rosyrsingaldehyde	DB-1		26.22 to 27.05			28.16	to 28.99
MIX B							
enol	DB-608	3.88	to 4.06			3.41	to 3.59
rophenol	DB-608	5.80	to 6.07			5.22	to 5.49
taiacol	DB-608	7.25	to 7.57			8.09	to 8.41
chlorophenol	DB-608	8.10	to 8.43			7.18	to 7.52
chlorophenol	DB-608	9.94	9.74 to 10.11	8.85		8.70	to 9.07
ol	DB-608		12.51 to 12.95			13.09	to 13.53
trachlorophenol	DB-608		13.99 to 14.45			13.50	to 13.96
chloroguaiaacol	DB-608		14.56 to 15.04			14.13	to 14.61
rocatechol	DB-608		16.02 to 16.50			16.33	to 16.82
chloroguaiaacol	DB-608	18.37	18.08 to 18.60	20.04		19.74	to 20.26
phenol	DB-608		21.16 to 21.72			19.97	to 20.53
oguaiaacol	DB-608		22.21 to 22.75			21.82	to 22.36
catechol	DB-608		26.08 to 26.65			26.73	to 27.30
chlorophenol	DB-608	11.82	11.59 to 12.04	10.56		10.30	to 10.75

IDENTIFICATIONS

19356

ATT No. 90-05-031-02

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
lorophenol	DB-1	5.53	5.34 to 5.68	5.53	5.26 to 5.61		
lorophenol	DB-1		6.10 to 6.49		4.84 to 5.23		
lorophenol	DB-1		7.02 to 7.45		6.30 to 6.73		
guaiacol	DB-1		7.41 to 7.86		8.03 to 8.48		
chlorophenol	DB-1		9.15 to 9.66		9.02 to 9.53		
loroguaiacol	DB-1		10.86 to 11.44		11.54 to 12.13		
lorocatechol	DB-1	13.74	13.45 to 14.14	14.14	13.79 to 14.48		
vanillin	DB-1		14.12 to 14.79		16.49 to 17.16		
lorocatechol	DB-1		14.89 to 15.59		16.47 to 17.18		
chloroguaiacol	DB-1		16.89 to 17.62		16.46 to 17.19		
lorovanillin	DB-1		19.41 to 20.17		21.60 to 22.36		
ringaldehyde	DB-1		19.93 to 20.71		23.22 to 24.00		
chlorocatechol	DB-1		21.00 to 21.76		22.43 to 23.19		
syringol	DB-1		22.71 to 23.49		23.22 to 24.01		
rososyringaldehyde	DB-1		26.22 to 27.05		28.16 to 28.99		
MIX B							
phenol	DB-608	3.89	3.88 to 4.06	3.50	3.41 to 3.59		
orophenol	DB-608		5.80 to 6.07		5.22 to 5.49		
guaiacol	DB-608		7.25 to 7.57		8.09 to 8.41		
chlorophenol	DB-608		8.10 to 8.43		7.18 to 7.52		
chlorophenol	DB-608	9.90	9.74 to 10.11	8.83	8.70 to 9.07		
icol	DB-608		12.51 to 12.95		13.09 to 13.53		
tetrachlorophenol	DB-608		13.99 to 14.45		13.50 to 13.96		
chloroguaiacol	DB-608		14.56 to 15.04		14.13 to 14.61		
orocatechol	DB-608	16.23	16.02 to 16.50	16.58	16.33 to 16.82		
chloroguaiacol	DB-608		18.08 to 18.60		19.74 to 20.26		
rophenol	DB-608		21.16 to 21.72		19.97 to 20.53		
roguaiacol	DB-608		22.21 to 22.75		21.82 to 22.36		
rocatechol	DB-608	26.20	26.08 to 26.65	27.04	26.73 to 27.30		
chlorophenol	DB-608	11.77	11.59 to 12.04	10.53	10.30 to 10.75		

IDENTIFICATIONS

19357 ATI No. 90-05-031-03

COMPOUND	Quant. Column	DB-1 column			DB-608 column			
		Observed Ret. Time	Window		Observed Ret. Time	Window		
MIX A								
phenol	DB-1	5.34	to	5.68		5.26	to	5.61
prophenol	DB-1	6.10	to	6.49		4.84	to	5.23
prophenol	DB-1	7.02	to	7.45		6.30	to	6.73
guaiacol	DB-1	7.41	to	7.86		8.03	to	8.48
chlorophenol	DB-1	9.15	to	9.66		9.02	to	9.53
proguaiacol	DB-1	10.90	10.86	to 11.44	11.84	11.54	to	12.13
procatechol	DB-1		13.45	to 14.14		13.79	to	14.48
vanillin	DB-1		14.12	to 14.79		16.49	to	17.16
procatechol	DB-1		14.89	to 15.59		16.47	to	17.18
chloroguaiacol	DB-1	17.25	16.89	to 17.62	16.65	16.46	to	17.19
provanillin	DB-1		19.41	to 20.17		21.60	to	22.36
aldehyde	DB-1		19.93	to 20.71		23.22	to	24.00
chlorocatechol	DB-1		21.00	to 21.76		22.43	to	23.19
syringol	DB-1	23.07	22.71	to 23.49	23.60	23.22	to	24.01
rosyrsingaldehyde	DB-1	26.61	26.22	to 27.05	28.57	28.16	to	28.99
MIX B								
phenol	DB-608		3.88	to 4.06		3.41	to	3.59
prophenol	DB-608		5.80	to 6.07		5.22	to	5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to	8.41
chlorophenol	DB-608	8.26	8.10	to 8.43	7.36	7.18	to	7.52
chlorophenol	DB-608	9.92	9.74	to 10.11	8.84	8.70	to	9.07
ol	DB-608		12.51	to 12.95		13.09	to	13.53
tetrachlorophenol	DB-608	14.42	13.99	to 14.45	13.74	13.50	to	13.96
chloroguaiacol	DB-608	14.79	14.56	to 15.04	14.38	14.13	to	14.61
procatechol	DB-608		16.02	to 16.50		16.33	to	16.82
chloroguaiacol	DB-608	18.32	18.08	to 18.60	20.02	19.74	to	20.26
rophenol	DB-608		21.16	to 21.72		19.97	to	20.53
roguaiaacol	DB-608	22.40	22.21	to 22.75	22.02	21.82	to	22.36
catechol	DB-608		26.08	to 26.65		26.73	to	27.30
chlorophenol	DB-608	11.78	11.59	to 12.04	10.53	10.30	to	10.75

IDENTIFICATIONS

19358

ATI No. 90-05-031-04

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.34	to 5.68	5.26	to 5.61		
chlorophenol	DB-1	6.10	to 6.49	4.84	to 5.23		
chlorophenol	DB-1	7.02	to 7.45	6.30	to 6.73		
guaiacol	DB-1	7.41	to 7.86	8.03	to 8.48		
chlorophenol	DB-1	9.15	to 9.66	9.02	to 9.53		
chloroguaiacol	DB-1	10.86	to 11.44	11.54	to 12.13		
chlorocatechol	DB-1	13.45	to 14.14	13.79	to 14.48		
vanillin	DB-1	14.12	to 14.79	16.49	to 17.16		
chlorocatechol	DB-1	14.89	to 15.59	16.47	to 17.18		
chloroguaiacol	DB-1	16.89	to 17.62	16.46	to 17.19		
chlorovanillin	DB-1	19.41	to 20.17	21.60	to 22.36		
ringaldehyde	DB-1	19.93	to 20.71	23.22	to 24.00		
chlorocatechol	DB-1	21.00	to 21.76	22.43	to 23.19		
osyringol	DB-1	22.71	to 23.49	23.22	to 24.01		
lorosyringaldehyde	DB-1	26.22	to 27.05	28.16	to 28.99		
MIX B							
phenol	DB-608	3.88	to 4.06	3.41	to 3.59		
chlorophenol	DB-608	5.80	to 6.07	5.22	to 5.49		
guaiacol	DB-608	7.25	to 7.57	8.09	to 8.41		
chlorophenol	DB-608	8.10	to 8.43	7.18	to 7.52		
chlorophenol	DB-608	9.74	to 10.11	8.70	to 9.07		
acol	DB-608	12.51	to 12.95	13.09	to 13.53		
Tetrachlorophenol	DB-608	13.99	to 14.45	13.50	to 13.96		
chloroguaiacol	DB-608	14.56	to 15.04	14.13	to 14.61		
chlorocatechol	DB-608	16.02	to 16.50	16.33	to 16.82		
chloroguaiacol	DB-608	18.08	to 18.60	19.74	to 20.26		
orophenol	DB-608	21.16	to 21.72	19.97	to 20.53		
oroguaiacol	DB-608	22.21	to 22.75	21.82	to 22.36		
orocatechol	DB-608	26.08	to 26.65	26.73	to 27.30		
chlorophenol	DB-608	11.85	11.59 to 12.04	10.59	10.30 to 10.75		

IDENTIFICATIONS

19359

ATI No. 90-05-031-05

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time		Window	Observed Ret. Time		Window		
MIX A									
chlorophenol	DB-1	5.34	to	5.68	5.26	to	5.61		
chlorophenol	DB-1	6.10	to	6.49	4.84	to	5.23		
chlorophenol	DB-1	7.02	to	7.45	6.30	to	6.73		
guaiacol	DB-1	7.41	to	7.86	8.03	to	8.48		
chlorophenol	DB-1	9.15	to	9.66	9.02	to	9.53		
chloroguaiacol	DB-1	10.86	to	11.44	11.54	to	12.13		
chlorocatechol	DB-1	13.45	to	14.14	13.79	to	14.48		
vanillin	DB-1	14.12	to	14.79	16.49	to	17.16		
chlorocatechol	DB-1	14.89	to	15.59	16.47	to	17.18		
chloroguaiacol	DB-1	16.89	to	17.62	16.46	to	17.19		
chlorovanillin	DB-1	19.41	to	20.17	21.60	to	22.36		
ringaldehyde	DB-1	19.93	to	20.71	23.22	to	24.00		
chlorocatechol	DB-1	21.00	to	21.76	22.43	to	23.19		
syringol	DB-1	22.71	to	23.49	23.22	to	24.01		
chlorosyringaldehyde	DB-1	26.22	to	27.05	28.16	to	28.99		
MIX B									
phenol	DB-608	3.88	to	4.06	3.41	to	3.59		
chlorophenol	DB-608	5.80	to	6.07	5.22	to	5.49		
guaiacol	DB-608	7.25	to	7.57	8.09	to	8.41		
chlorophenol	DB-608	8.10	to	8.43	7.18	to	7.52		
chlorophenol	DB-608	9.74	to	10.11	8.70	to	9.07		
guaiacol	DB-608	12.51	to	12.95	13.09	to	13.53		
tetrachlorophenol	DB-608	13.99	to	14.45	13.50	to	13.96		
chloroguaiacol	DB-608	14.56	to	15.04	14.13	to	14.61		
chlorocatechol	DB-608	16.02	to	16.50	16.33	to	16.82		
chloroguaiacol	DB-608	18.08	to	18.60	19.74	to	20.26		
chlorophenol	DB-608	21.16	to	21.72	19.97	to	20.53		
chloroguaiacol	DB-608	22.21	to	22.75	21.82	to	22.36		
chlorocatechol	DB-608	26.08	to	26.65	26.73	to	27.30		
chlorophenol	DB-608	11.83	11.59	to	12.04	10.56	10.30	to	10.75

IDENTIFICATIONS

19360

ATI No. 90-05-031-06

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time	Window		Observed Ret. Time	Window			
MIX A									
chlorophenol	DB-1	5.34	to	5.68		5.26	to	5.61	
chlorophenol	DB-1	6.10	to	6.49		4.84	to	5.23	
chlorophenol	DB-1	7.02	to	7.45		6.30	to	6.73	
guaiacol	DB-1	7.41	to	7.86		8.03	to	8.48	
richlorophenol	DB-1	9.50	to	9.66	9.50	9.02	to	9.53	
chloroguaiacol	DB-1	10.97	to	11.44	11.88	11.54	to	12.13	
chlorocatechol	DB-1		13.45	to	14.14		13.79	to	14.48
vanillin	DB-1	14.50	to	14.79	16.71	16.49	to	17.16	
chlorocatechol	DB-1		14.89	to	15.59		16.47	to	17.18
richloroguaiacol	DB-1		16.89	to	17.62		16.46	to	17.19
chlorovanillin	DB-1		19.41	to	20.17		21.60	to	22.36
syringaldehyde	DB-1		19.93	to	20.71		23.22	to	24.00
richlorocatechol	DB-1		21.00	to	21.76		22.43	to	23.19
rosyringol	DB-1	23.14	to	23.49	23.66	23.22	to	24.01	
chlorosyringaldehyde	DB-1	26.70	to	27.05	28.58	28.16	to	28.99	
MIX B									
phenol	DB-608	3.88	to	4.06		3.41	to	3.59	
chlorophenol	DB-608	5.80	to	6.07		5.22	to	5.49	
guaiacol	DB-608	7.25	to	7.57		8.09	to	8.41	
richlorophenol	DB-608	8.32	to	8.43	7.38	7.18	to	7.52	
richlorophenol	DB-608	9.97	to	10.11	8.86	8.70	to	9.07	
iacol	DB-608		12.51	to	12.95		13.09	to	13.53
Tetrachlorophenol	DB-608		13.99	to	14.45		13.50	to	13.96
richloroguaiacol	DB-608		14.56	to	15.04		14.13	to	14.61
chlorocatechol	DB-608		16.02	to	16.50		16.33	to	16.82
richloroguaiacol	DB-608	18.42	to	18.60	20.05	19.74	to	20.26	
orophenol	DB-608		21.16	to	21.72		19.97	to	20.53
oroguaiacol	DB-608		22.21	to	22.75		21.82	to	22.36
orocatechol	DB-608		26.08	to	26.65		26.73	to	27.30
richlorophenol	DB-608	11.83	11.59	to	12.04	10.57	10.30	to	10.75

IDENTIFICATIONS

19361 ATI No. 90-05-031-07

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
phenol	DB-1	5.34	to	5.68			5.26 to 5.61
rophenol	DB-1	6.10	to	6.49			4.84 to 5.23
rophenol	DB-1	7.02	to	7.45			6.30 to 6.73
iaiacol	DB-1	7.41	to	7.86			8.03 to 8.48
chlorophenol	DB-1	9.53	to	9.66	9.20		9.02 to 9.53
roguaiacol	DB-1	10.97	to	11.44	11.87		11.54 to 12.13
rocatechol	DB-1	13.82	to	14.14	14.18		13.79 to 14.48
illin	DB-1	14.49	to	14.79	16.84		16.49 to 17.16
rocatechol	DB-1	15.28	to	15.59	16.84		16.47 to 17.18
chloroguaiacol	DB-1	16.89	to	17.62			16.46 to 17.19
rovanillin	DB-1	19.41	to	20.17			21.60 to 22.36
ngaldehyde	DB-1	20.37	to	20.71	23.66		23.22 to 24.00
chlorocatechol	DB-1	21.00	to	21.76			22.43 to 23.19
syringol	DB-1	23.15	to	23.49	23.66		23.22 to 24.01
rosyrsingaldehyde	DB-1	26.82	to	27.05	28.58		28.16 to 28.99
MIX B							
enol	DB-608	3.88	to	4.06			3.41 to 3.59
rophenol	DB-608	5.80	to	6.07			5.22 to 5.49
iaiacol	DB-608	7.25	to	7.57			8.09 to 8.41
chlorophenol	DB-608	8.32	to	8.43	7.38		7.18 to 7.52
chlorophenol	DB-608	9.98	to	10.11	8.86		8.70 to 9.07
ol	DB-608	12.51	to	12.95			13.09 to 13.53
trachlorophenol	DB-608	13.99	to	14.45			13.50 to 13.96
chloroguaiacol	DB-608	14.56	to	15.04			14.13 to 14.61
rocatechol	DB-608	16.32	to	16.50	16.62		16.33 to 16.82
chloroguaiacol	DB-608	18.39	to	18.60	20.05		19.74 to 20.26
rophenol	DB-608	21.42	to	21.72	20.32		19.97 to 20.53
roguaiacol	DB-608	22.21	to	22.75			21.82 to 22.36
ocatechol	DB-608	26.08	to	26.65			26.73 to 27.30
chlorophenol	DB-608	11.84	11.59	to 12.04	10.56	10.30	to 10.75

IDENTIFICATIONS

19362

ATI No. 90-05-031-08

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
chlorophenol	DB-1	5.53	5.34	to 5.68	5.39	5.26	to 5.61
chlorophenol	DB-1		6.10	to 6.49		4.84	to 5.23
chlorophenol	DB-1		7.02	to 7.45		6.30	to 6.73
guaiacol	DB-1		7.41	to 7.86		8.03	to 8.48
trichlorophenol	DB-1		9.15	to 9.66		9.02	to 9.53
chloroguaiacol	DB-1	10.85	10.86	to 11.44	11.88	11.54	to 12.13
chlorocatechol	DB-1	13.71	13.45	to 14.14	14.18	13.79	to 14.48
ovanillin	DB-1	14.38	14.12	to 14.79	16.64	16.49	to 17.16
chlorocatechol	DB-1	14.93	14.89	to 15.59	16.64	16.47	to 17.18
trichloroguaiacol	DB-1		16.89	to 17.62		16.46	to 17.19
chlorovanillin	DB-1		19.41	to 20.17		21.60	to 22.36
syringaldehyde	DB-1		19.93	to 20.71		23.22	to 24.00
trichlorocatechol	DB-1		21.00	to 21.76		22.43	to 23.19
rosyringol	DB-1	23.01	22.71	to 23.49	23.67	23.22	to 24.01
chlorosyringaldehyde	DB-1	26.72	26.22	to 27.05	28.59	28.16	to 28.99
MIX B							
phenol	DB-608		3.88	to 4.06		3.41	to 3.59
chlorophenol	DB-608	5.89	5.80	to 6.07	5.39	5.22	to 5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to 8.41
richlorophenol	DB-608	8.22	8.10	to 8.43	7.38	7.18	to 7.52
richlorophenol	DB-608	9.88	9.74	to 10.11	8.86	8.70	to 9.07
iacol	DB-608		12.51	to 12.95		13.09	to 13.53
Tetrachlorophenol	DB-608		13.99	to 14.45		13.50	to 13.96
richloroguaiacol	DB-608	14.93	14.56	to 15.04	14.18	14.13	to 14.61
chlorocatechol	DB-608	16.20	16.02	to 16.50	16.64	16.33	to 16.82
richloroguaiacol	DB-608	18.27	18.08	to 18.60	20.05	19.74	to 20.26
lorophenol	DB-608		21.16	to 21.72		19.97	to 20.53
loroguaiacol	DB-608		22.21	to 22.75		21.82	to 22.36
lorocatechol	DB-608	26.34	26.08	to 26.65	27.18	26.73	to 27.30
richlorophenol	DB-608	11.72	11.59	to 12.04	10.57	10.30	to 10.75

IDENTIFICATIONS

Blank 1

ATI No. 90-05-033-00

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time	Window		Observed Ret. Time	Window			
MIX A									
chlorophenol	DB-1	5.34	to	5.68		5.26	to	5.61	
chlorophenol	DB-1	6.10	to	6.49		4.84	to	5.23	
chlorophenol	DB-1	7.02	to	7.45		6.30	to	6.73	
guaiacol	DB-1	7.41	to	7.86		8.03	to	8.48	
ichlorophenol	DB-1	9.15	to	9.66		9.02	to	9.53	
chloroguaiacol	DB-1	10.86	to	11.44		11.54	to	12.13	
lorocatechol	DB-1	13.45	to	14.14		13.79	to	14.48	
vanillin	DB-1	14.12	to	14.79		16.49	to	17.16	
lorocatechol	DB-1	14.89	to	15.59		16.47	to	17.18	
ichloroguaiacol	DB-1	16.89	to	17.62		16.46	to	17.19	
lorovanillin	DB-1	19.41	to	20.17		21.60	to	22.36	
ringaldehyde	DB-1	19.93	to	20.71		23.22	to	24.00	
ichlorocatechol	DB-1	21.00	to	21.76		22.43	to	23.19	
osyringol	DB-1	22.71	to	23.49		23.22	to	24.01	
lorosyringaldehyde	DB-1	26.22	to	27.05		28.16	to	28.99	
MIX B									
phenol	DB-608	3.88	to	4.06		3.41	to	3.59	
lorophenol	DB-608	5.80	to	6.07		5.22	to	5.49	
guaiacol	DB-608	7.25	to	7.57		8.09	to	8.41	
ichlorophenol	DB-608	8.10	to	8.43		7.18	to	7.52	
ichlorophenol	DB-608	9.74	to	10.11		8.70	to	9.07	
acol	DB-608	12.51	to	12.95		13.09	to	13.53	
Tetrachlorophenol	DB-608	13.99	to	14.45		13.50	to	13.96	
ichloroguaiacol	DB-608	14.56	to	15.04		14.13	to	14.61	
lorocatechol	DB-608	16.02	to	16.50		16.33	to	16.82	
ichloroguaiacol	DB-608	18.08	to	18.60		19.74	to	20.26	
orophenol	DB-608	21.16	to	21.72		19.97	to	20.53	
oroguaiacol	DB-608	22.21	to	22.75		21.82	to	22.36	
orocatechol	DB-608	26.08	to	26.65		26.73	to	27.30	
ichlorophenol	DB-608	11.84	11.59	to	12.04	10.57	10.30	to	10.75

IDENTIFICATIONS

19364

ATI No. 90-05-033-01

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.48	5.34	to 5.68	5.42	5.26	to 5.61
chlorophenol	DB-1	6.19	6.10	to 6.49	5.10	4.84	to 5.23
chlorophenol	DB-1		7.02	to 7.45		6.30	to 6.73
guaiacol	DB-1		7.41	to 7.86		8.03	to 8.48
trichlorophenol	DB-1		9.15	to 9.66		9.02	to 9.53
chloroguaiacol	DB-1	10.85	10.86	to 11.44	11.88	11.54	to 12.13
chlorocatechol	DB-1		13.45	to 14.14		13.79	to 14.48
ovanillin	DB-1	14.38	14.12	to 14.79	16.76	16.49	to 17.16
chlorocatechol	DB-1		14.89	to 15.59		16.47	to 17.18
trichloroguaiacol	DB-1	17.20	16.89	to 17.62	16.76	16.46	to 17.19
chlorovanillin	DB-1		19.41	to 20.17		21.60	to 22.36
yringaldehyde	DB-1	20.25	19.93	to 20.71	23.66	23.22	to 24.00
trichlorocatechol	DB-1		21.00	to 21.76		22.43	to 23.19
syringol	DB-1		22.71	to 23.49		23.22	to 24.01
chlorosyringaldehyde	DB-1		26.22	to 27.05		28.16	to 28.99
MIX B							
phenol	DB-608		3.88	to 4.06		3.41	to 3.59
chlorophenol	DB-608		5.80	to 6.07		5.22	to 5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to 8.41
trichlorophenol	DB-608	8.22	8.10	to 8.43	7.38	7.18	to 7.52
trichlorophenol	DB-608	9.89	9.74	to 10.11	8.87	8.70	to 9.07
iacol	DB-608		12.51	to 12.95		13.09	to 13.53
-Tetrachlorophenol	DB-608		13.99	to 14.45		13.50	to 13.96
trichloroguaiacol	DB-608		14.56	to 15.04		14.13	to 14.61
chlorocatechol	DB-608		16.02	to 16.50		16.33	to 16.82
trichloroguaiacol	DB-608	18.29	18.08	to 18.60	20.05	19.74	to 20.26
lorophenol	DB-608		21.16	to 21.72		19.97	to 20.53
loroguaiacol	DB-608		22.21	to 22.75		21.82	to 22.36
lorocatechol	DB-608		26.08	to 26.65		26.73	to 27.30
trichlorophenol	DB-608	11.73	11.59	to 12.04	10.57	10.30	to 10.75

IDENTIFICATIONS

19365

ATI No. 90-05-033-02

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
chlorophenol	DB-1		5.34	to 5.68		5.26	to 5.61
chlorophenol	DB-1		6.10	to 6.49		4.84	to 5.23
chlorophenol	DB-1		7.02	to 7.45		6.30	to 6.73
guaiacol	DB-1		7.41	to 7.86		8.03	to 8.48
trichlorophenol	DB-1		9.15	to 9.66		9.02	to 9.53
chloroguaiacol	DB-1	10.84	10.86	to 11.44	11.88	11.54	to 12.13
chlorocatechol	DB-1		13.45	to 14.14		13.79	to 14.48
ovanillin	DB-1	14.38	14.12	to 14.79	16.72	16.49	to 17.16
chlorocatechol	DB-1		14.89	to 15.59		16.47	to 17.18
trichloroguaiacol	DB-1	17.18	16.89	to 17.62	16.72	16.46	to 17.19
chlorovanillin	DB-1		19.41	to 20.17		21.60	to 22.36
syringaldehyde	DB-1		19.93	to 20.71		23.22	to 24.00
trichlorocatechol	DB-1		21.00	to 21.76		22.43	to 23.19
rosyringol	DB-1	23.01	22.71	to 23.49	23.85	23.22	to 24.01
chlorosyringaldehyde	DB-1		26.22	to 27.05		28.16	to 28.99
MIX B							
phenol	DB-608		3.88	to 4.06		3.41	to 3.59
chlorophenol	DB-608		5.80	to 6.07		5.22	to 5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to 8.41
trichlorophenol	DB-608	8.22	8.10	to 8.43	7.39	7.18	to 7.52
trichlorophenol	DB-608	9.87	9.74	to 10.11	8.87	8.70	to 9.07
iacol	DB-608		12.51	to 12.95		13.09	to 13.53
-Tetrachlorophenol	DB-608		13.99	to 14.45		13.50	to 13.96
trichloroguaiacol	DB-608		14.56	to 15.04		14.13	to 14.61
chlorocatechol	DB-608	16.38	16.02	to 16.50	16.72	16.33	to 16.82
trichloroguaiacol	DB-608	18.27	18.08	to 18.60	20.06	19.74	to 20.26
lorophenol	DB-608		21.16	to 21.72		19.97	to 20.53
loroguaiacol	DB-608		22.21	to 22.75		21.82	to 22.36
lorocatechol	DB-608	26.18	26.08	to 26.65	22.04	26.73	to 27.30
trichlorophenol	DB-608	11.72	11.59	to 12.04	10.57	10.30	to 10.75

IDENTIFICATIONS

J. 19366

ATT No. 90-05-033-03

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
chlorophenol	DB-1	5.55	5.34	to 5.68	5.53	5.26	to 5.61
chlorophenol	DB-1		6.10	to 6.49		4.84	to 5.23
chlorophenol	DB-1		7.02	to 7.45		6.30	to 6.73
guaiacol	DB-1		7.41	to 7.86		8.03	to 8.48
trichlorophenol	DB-1		9.15	to 9.66		9.02	to 9.53
chloroguaiacol	DB-1		10.86	to 11.44		11.54	to 12.13
chlorocatechol	DB-1	13.76	13.45	to 14.14	14.14	13.79	to 14.48
vanillin	DB-1	14.43	14.12	to 14.79	16.84	16.49	to 17.16
chlorocatechol	DB-1		14.89	to 15.59		16.47	to 17.18
trichloroguaiacol	DB-1	17.25	16.89	to 17.62	16.84	16.46	to 17.19
chlorovanillin	DB-1		19.41	to 20.17		21.60	to 22.36
syringaldehyde	DB-1		19.93	to 20.71		23.22	to 24.00
trichlorocatechol	DB-1		21.00	to 21.76		22.43	to 23.19
rosyringol	DB-1		22.71	to 23.49		23.22	to 24.01
chlorosyringaldehyde	DB-1	26.77	26.22	to 27.05	28.57	28.16	to 28.99
MIX B							
phenol	DB-608		3.88	to 4.06		3.41	to 3.59
chlorophenol	DB-608		5.80	to 6.07		5.22	to 5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to 8.41
trichlorophenol	DB-608		8.10	to 8.43		7.18	to 7.52
trichlorophenol	DB-608	9.91	9.74	to 10.11	8.83	8.70	to 9.07
iacol	DB-608		12.51	to 12.95		13.09	to 13.53
-Tetrachlorophenol	DB-608		13.99	to 14.45		13.50	to 13.96
trichloroguaiacol	DB-608		14.56	to 15.04		14.13	to 14.61
chlorocatechol	DB-608	16.25	16.02	to 16.50	16.59	16.33	to 16.82
trichloroguaiacol	DB-608		18.08	to 18.60		19.74	to 20.26
lorophenol	DB-608		21.16	to 21.72		19.97	to 20.53
loroguaiacol	DB-608		22.21	to 22.75		21.82	to 22.36
lorocatechol	DB-608	26.22	26.08	to 26.65	27.04	26.73	to 27.30
trichlorophenol	DB-608	11.78	11.59	to 12.04	10.53	10.30	to 10.75

IDENTIFICATIONS

19367

ATI No. 90-05-033-04

COMPOUND	Quant. Column	DB-1 column			DB-608 column			
		Observed Ret. Time		Window	Observed Ret. Time		Window	
MIX A								
chlorophenol	DB-1	5.34	to	5.68		5.26	to	5.61
chlorophenol	DB-1	6.10	to	6.49		4.84	to	5.23
chlorophenol	DB-1	7.02	to	7.45		6.30	to	6.73
guaiacol	DB-1	7.62	7.41	to 7.86	8.26	8.03	to	8.48
trichlorophenol	DB-1		9.15	to 9.66		9.02	to	9.53
chloroguaiacol	DB-1	10.90	10.86	to 11.44	11.85	11.54	to	12.13
chlorocatechol	DB-1		13.45	to 14.14		13.79	to	14.48
vanillin	DB-1		14.12	to 14.79		16.49	to	17.16
chlorocatechol	DB-1	14.97	14.89	to 15.59	16.67	16.47	to	17.18
trichloroguaiacol	DB-1	17.25	16.89	to 17.62		16.46	to	17.19
chlorovanillin	DB-1		19.41	to 20.17		21.60	to	22.36
syringaldehyde	DB-1		19.93	to 20.71		23.22	to	24.00
trichlorocatechol	DB-1		21.00	to 21.76		22.43	to	23.19
rosyringol	DB-1	23.07	22.71	to 23.49	23.62	23.22	to	24.01
chlorosyringaldehyde	DB-1	26.62	26.22	to 27.05	28.57	28.16	to	28.99
MIX B								
phenol	DB-608		3.88	to 4.06		3.41	to	3.59
chlorophenol	DB-608	5.92	5.80	to 6.07	5.37	5.22	to	5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to	8.41
trichlorophenol	DB-608	8.26	8.10	to 8.43	7.36	7.18	to	7.52
trichlorophenol	DB-608	9.93	9.74	to 10.11	8.84	8.70	to	9.07
chloroguaiacol	DB-608		12.51	to 12.95		13.09	to	13.53
<i>p</i> -Tetrachlorophenol	DB-608	14.43	13.99	to 14.45	13.75	13.50	to	13.96
trichloroguaiacol	DB-608	14.80	14.56	to 15.04	14.38	14.13	to	14.61
chlorocatechol	DB-608		16.02	to 16.50		16.33	to	16.82
trichloroguaiacol	DB-608	18.33	18.08	to 18.60	20.02	19.74	to	20.26
chlorophenol	DB-608		21.16	to 21.72		19.97	to	20.53
chloroguaiacol	DB-608	22.40	22.21	to 22.75	22.02	21.82	to	22.36
chlorocatechol	DB-608		26.08	to 26.65		26.73	to	27.30
trichlorophenol	DB-608	11.79	11.59	to 12.04	10.54	10.30	to	10.75

IDENTIFICATIONS

19368

ATI No. 90-05-033-05

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time	Window		Observed Ret. Time	Window			
MIX A									
chlorophenol	DB-1	5.34	to	5.68	5.26	to	5.61		
chlorophenol	DB-1	6.10	to	6.49	4.84	to	5.23		
chlorophenol	DB-1	7.02	to	7.45	6.30	to	6.73		
guaiacol	DB-1	7.41	to	7.86	8.03	to	8.48		
Trichlorophenol	DB-1	9.15	to	9.66	9.02	to	9.53		
chloroguaiacol	DB-1	10.86	to	11.44	11.54	to	12.13		
chlorocatechol	DB-1	13.45	to	14.14	13.79	to	14.48		
rovanillin	DB-1	14.12	to	14.79	16.49	to	17.16		
chlorocatechol	DB-1	14.89	to	15.59	16.47	to	17.18		
Trichloroguaiacol	DB-1	16.89	to	17.62	16.46	to	17.19		
chlorovanillin	DB-1	19.41	to	20.17	21.60	to	22.36		
syringaldehyde	DB-1	19.93	to	20.71	23.22	to	24.00		
Trichlorocatechol	DB-1	21.00	to	21.76	22.43	to	23.19		
rosyringol	DB-1	22.71	to	23.49	23.22	to	24.01		
chlorosyringaldehyde	DB-1	26.22	to	27.05	28.16	to	28.99		
MIX B									
phenol	DB-608	3.88	to	4.06	3.41	to	3.59		
chlorophenol	DB-608	5.80	to	6.07	5.22	to	5.49		
guaiacol	DB-608	7.25	to	7.57	8.09	to	8.41		
Trichlorophenol	DB-608	8.10	to	8.43	7.18	to	7.52		
Trichlorophenol	DB-608	9.74	to	10.11	8.93	to	9.07		
guaiacol	DB-608	12.51	to	12.95	13.09	to	13.53		
5-Tetrachlorophenol	DB-608	13.99	to	14.45	13.50	to	13.96		
Trichloroguaiacol	DB-608	14.56	to	15.04	14.13	to	14.61		
chlorocatechol	DB-608	16.02	to	16.50	16.33	to	16.82		
Trichloroguaiacol	DB-608	18.08	to	18.60	19.74	to	20.26		
chlorophenol	DB-608	21.16	to	21.72	19.97	to	20.53		
chloroguaiacol	DB-608	22.21	to	22.75	21.82	to	22.36		
chlorocatechol	DB-608	26.08	to	26.65	26.73	to	27.30		
Trichlorophenol	DB-608	11.73	11.59	to	12.04	10.61	10.30	to	10.75

IDENTIFICATIONS

19369

ATI No. 90-05-033-06

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.34	to 5.68	5.26	to 5.61		
chlorophenol	DB-1	6.10	to 6.49	4.84	to 5.23		
chlorophenol	DB-1	7.02	to 7.45	6.30	to 6.73		
guaiacol	DB-1	7.41	to 7.86	8.03	to 8.48		
Trichlorophenol	DB-1	9.15	to 9.66	9.02	to 9.53		
chloroguaiacol	DB-1	10.86	to 11.44	11.54	to 12.13		
chlorocatechol	DB-1	13.45	to 14.14	13.79	to 14.48		
ovanillin	DB-1	14.12	to 14.79	16.49	to 17.16		
chlorocatechol	DB-1	14.89	to 15.59	16.47	to 17.18		
Trichloroguaiacol	DB-1	16.89	to 17.62	16.46	to 17.19		
chlorovanillin	DB-1	19.41	to 20.17	21.60	to 22.36		
syringaldehyde	DB-1	19.93	to 20.71	23.22	to 24.00		
Trichlorocatechol	DB-1	21.00	to 21.76	22.43	to 23.19		
rosyringol	DB-1	22.71	to 23.49	23.22	to 24.01		
chlorosyringaldehyde	DB-1	26.22	to 27.05	28.16	to 28.99		
MIX B							
rophenol	DB-608	3.88	to 4.06	3.41	to 3.59		
chlorophenol	DB-608	5.80	to 6.07	5.22	to 5.49		
guaiacol	DB-608	7.25	to 7.57	8.09	to 8.41		
Trichlorophenol	DB-608	8.10	to 8.43	7.18	to 7.52		
chlorophenol	DB-608	9.74	to 10.11	8.70	to 9.07		
guaiacol	DB-608	12.51	to 12.95	13.09	to 13.53		
5-Tetrachlorophenol	DB-608	13.99	to 14.45	13.50	to 13.96		
Trichloroguaiacol	DB-608	14.56	to 15.04	14.13	to 14.61		
chlorocatechol	DB-608	16.02	to 16.50	16.33	to 16.82		
Trichloroguaiacol	DB-608	18.08	to 18.60	19.74	to 20.26		
chlorophenol	DB-608	21.16	to 21.72	19.97	to 20.53		
chloroguaiacol	DB-608	22.21	to 22.75	21.82	to 22.36		
chlorocatechol	DB-608	26.08	to 26.65	26.73	to 27.30		
Trichlorophenol	DB-608	11.72	11.59 to 12.04	10.57	10.30 to 10.75		

IDENTIFICATIONS

19370

ATI No. 90-05-033-07

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
chlorophenol	DB-1	5.34	to	5.68			5.26 to 5.61
chlorophenol	DB-1	6.10	to	6.49			4.84 to 5.23
chlorophenol	DB-1	7.02	to	7.45			6.30 to 6.73
guaiacol	DB-1	7.41	to	7.86			8.03 to 8.48
Trichlorophenol	DB-1	9.15	to	9.66			9.02 to 9.53
chloroguaiacol	DB-1	10.86	to	11.44			11.54 to 12.13
chlorocatechol	DB-1	13.45	to	14.14			13.79 to 14.48
rovanillin	DB-1	14.36	14.12	to 14.79	16.69		16.49 to 17.16
chlorocatechol	DB-1		14.89	to 15.59			16.47 to 17.18
Trichloroguaiacol	DB-1		16.89	to 17.62			16.46 to 17.19
chlorovanillin	DB-1		19.41	to 20.17			21.60 to 22.36
syringaldehyde	DB-1		19.93	to 20.71			23.22 to 24.00
Trichlorocatechol	DB-1	21.27	21.00	to 21.76	22.87		22.43 to 23.19
rosyringol	DB-1	22.99	22.71	to 23.49	23.67		23.22 to 24.01
chlorosyringaldehyde	DB-1	26.55	26.22	to 27.05	28.56		28.16 to 28.99
MIX B							
phenol	DB-608	3.89	3.88	to 4.06	3.42		3.41 to 3.59
chlorophenol	DB-608		5.80	to 6.07			5.22 to 5.49
guaiacol	DB-608	7.38	7.25	to 7.57	7.38		8.09 to 8.41
Trichlorophenol	DB-608		8.10	to 8.43			7.18 to 7.52
Trichlorophenol	DB-608	9.86	9.74	to 10.11	8.88		8.70 to 9.07
guaiacol	DB-608		12.51	to 12.95			13.09 to 13.53
Trichlorophenol	DB-608		13.99	to 14.45			13.50 to 13.96
Trichloroguaiacol	DB-608		14.56	to 15.04			14.13 to 14.61
chlorocatechol	DB-608		16.02	to 16.50			16.33 to 16.82
Trichloroguaiacol	DB-608	18.26	18.08	to 18.60	20.07		19.74 to 20.26
chlorophenol	DB-608	21.27	21.16	to 21.72	20.32		19.97 to 20.53
chloroguaiacol	DB-608	22.28	22.21	to 22.75	22.05		21.82 to 22.36
chlorocatechol	DB-608		26.08	to 26.65			26.73 to 27.30
Trichlorophenol	DB-608	11.72	11.59	to 12.04	10.57		10.30 to 10.75

IDENTIFICATIONS

19371

ATT No. 90-05-033-08

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.34	to 5.68			5.26	to 5.61
chlorophenol	DB-1	6.38	to 6.49	5.09		4.84	to 5.23
chlorophenol	DB-1	7.02	to 7.45			6.30	to 6.73
guaiacol	DB-1	7.41	to 7.86			8.03	to 8.48
trichlorophenol	DB-1	9.43	to 9.66	9.20		9.02	to 9.53
chloroguaiacol	DB-1	10.85	to 11.44	11.89		11.54	to 12.13
chlorocatechol	DB-1	13.71	to 14.14	14.19		13.79	to 14.48
vanillin	DB-1	14.38	to 14.79	16.84		16.49	to 17.16
chlorocatechol	DB-1	14.89	to 15.59			16.47	to 17.18
trichloroguaiacol	DB-1	17.18	to 17.62	16.84		16.46	to 17.19
chlorovanillin	DB-1	19.41	to 20.17			21.60	to 22.36
syringaldehyde	DB-1	19.93	to 20.71			23.22	to 24.00
trichlorocatechol	DB-1	21.00	to 21.76			22.43	to 23.19
rosy ringol	DB-1	22.71	to 23.49			23.22	to 24.01
chlorosyringaldehyde	DB-1	26.57	to 27.05	28.60		28.16	to 28.99
MIX B							
phenol	DB-608	3.88	to 4.06			3.41	to 3.59
chlorophenol	DB-608	5.92	to 6.07	5.41		5.22	to 5.49
guaiacol	DB-608	7.25	to 7.57			8.09	to 8.41
trichlorophenol	DB-608	8.22	to 8.43	7.39		7.18	to 7.52
trichlorophenol	DB-608	9.87	to 10.11	8.88		8.70	to 9.07
guaiacol	DB-608	12.51	to 12.95			13.09	to 13.53
-Tetrachlorophenol	DB-608	13.99	to 14.45			13.50	to 13.96
trichloroguaiacol	DB-608	14.93	to 15.04	14.43		14.13	to 14.61
chlorocatechol	DB-608	16.18	to 16.50	16.64		16.33	to 16.82
trichloroguaiacol	DB-608	18.26	to 18.60	20.06		19.74	to 20.26
chlorophenol	DB-608	21.27	to 21.72	20.33		19.97	to 20.53
chloroguaiacol	DB-608		22.21 to 22.75			21.82	to 22.36
chlorocatechol	DB-608		26.08 to 26.65			26.73	to 27.30
trichlorophenol	DB-608	11.73	11.59 to 12.04	10.57		10.30	to 10.75

IDENTIFICATIONS

19372

ATI No. 90-05-033-09

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
chlorophenol	DB-1	5.34	to	5.68			5.61
chlorophenol	DB-1	6.10	to	6.49			5.23
chlorophenol	DB-1	7.02	to	7.45			6.73
roguaiaacol	DB-1	7.41	to	7.86			8.48
Trichlorophenol	DB-1	9.15	to	9.66			9.53
chloroguaiacol	DB-1	10.84	to	11.44	11.89	11.54	12.13
chlorocatechol	DB-1	13.71	to	14.14	14.19	13.79	14.48
rovanillin	DB-1	14.36	to	14.79	16.67	16.49	17.16
chlorocatechol	DB-1	14.93	to	15.59	16.67	16.47	17.18
Trichloroguaiacol	DB-1	16.89	to	17.62			17.19
chlorovanillin	DB-1	19.41	to	20.17			22.36
syringaldehyde	DB-1	19.93	to	20.71			24.00
Trichlorocatechol	DB-1	21.00	to	21.76			23.19
rosyrosyngol	DB-1	22.71	to	23.49			24.01
chlorosyringaldehyde	DB-1	26.54	to	27.05	28.61	28.16	28.99
MIX B							
rophenol	DB-608	3.88	to	4.06			3.59
chlorophenol	DB-608	5.90	to	6.07	5.39	5.22	5.49
roguaiaacol	DB-608	7.25	to	7.57			8.41
Trichlorophenol	DB-608	8.20	to	8.43	7.38	7.18	7.52
Trichlorophenol	DB-608	9.87	to	10.11	8.88	8.70	9.07
iacol	DB-608	12.51	to	12.95			13.53
β -Tetrachlorophenol	DB-608	14.36	to	14.45	13.79	13.50	13.96
Trichloroguaiacol	DB-608	14.93	to	15.04	14.40	14.13	14.61
chlorocatechol	DB-608		to	16.50			16.82
Trichloroguaiacol	DB-608		to	18.60			20.26
chlorophenol	DB-608		to	21.16			20.53
chloroguaiacol	DB-608		to	22.21			22.36
chlorocatechol	DB-608		to	26.08			27.30
Trichlorophenol	DB-608	11.72	to	12.04	10.58	10.30	10.75

IDENTIFICATIONS

0. 19373

ATT No. 90-05-033-10

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
chlorophenol	DB-1	5.53	5.34	to 5.68	5.38	5.26	to 5.61
chlorophenol	DB-1	6.42	6.10	to 6.49	5.08	4.84	to 5.23
chlorophenol	DB-1		7.02	to 7.45		6.30	to 6.73
guaiacol	DB-1		7.41	to 7.86		8.03	to 8.48
Trichlorophenol	DB-1		9.15	to 9.66		9.02	to 9.53
chloroguaiacol	DB-1	10.86	10.86	to 11.44	11.88	11.54	to 12.13
chlorocatechol	DB-1	13.72	13.45	to 14.14	14.20	13.79	to 14.48
vanillin	DB-1	14.38	14.12	to 14.79	16.68	16.49	to 17.16
chlorocatechol	DB-1		14.89	to 15.59		16.47	to 17.18
Trichloroguaiacol	DB-1		16.89	to 17.62		16.46	to 17.19
chlorovanillin	DB-1		19.41	to 20.17		21.60	to 22.36
syringaldehyde	DB-1		19.93	to 20.71		23.22	to 24.00
Trichlorocatechol	DB-1		21.00	to 21.76		22.43	to 23.19
rosyringol	DB-1	23.02	22.71	to 23.49	23.69	23.22	to 24.01
chlorosyringaldehyde	DB-1	26.57	26.22	to 27.05	28.61	28.16	to 28.99
MIX B							
rophenol	DB-608		3.88	to 4.06		3.41	to 3.59
chlorophenol	DB-608	5.91	5.80	to 6.07	5.38	5.22	to 5.49
guaiacol	DB-608		7.25	to 7.57		8.09	to 8.41
Trichlorophenol	DB-608	8.22	8.10	to 8.43	7.39	7.18	to 7.52
Trichlorophenol	DB-608	9.88	9.74	to 10.11	8.88	8.70	to 9.07
iacol	DB-608		12.51	to 12.95		13.09	to 13.53
6-Tetrachlorophenol	DB-608		13.99	to 14.45		13.50	to 13.96
Trichloroguaiacol	DB-608	14.93	14.56	to 15.04	14.41	14.13	to 14.61
chlorocatechol	DB-608		16.02	to 16.50		16.33	to 16.82
Trichloroguaiacol	DB-608		18.08	to 18.60		19.74	to 20.26
lorophenol	DB-608		21.16	to 21.72		19.97	to 20.53
loroguaiacol	DB-608		22.21	to 22.75		21.82	to 22.36
lorocatechol	DB-608	26.34	26.08	to 26.65	27.19	26.73	to 27.30
Trichlorophenol	DB-608	11.74	11.59	to 12.04	10.58	10.30	to 10.75

IDENTIFICATIONS

10. Blank 1

ATI No. 90-05-037-00

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time	Window		Observed Ret. Time	Window			
MIX A									
chlorophenol	DB-1	5.34	to	5.68	5.26	to	5.61		
chlorophenol	DB-1	6.10	to	6.49	4.84	to	5.23		
chlorophenol	DB-1	7.02	to	7.45	6.30	to	6.73		
guaiacol	DB-1	7.41	to	7.86	8.03	to	8.48		
-Trichlorophenol	DB-1	9.15	to	9.66	9.02	to	9.53		
chloroguaiacol	DB-1	10.86	to	11.44	11.54	to	12.13		
chlorocatechol	DB-1	13.45	to	14.14	13.79	to	14.48		
rovanillin	DB-1	14.12	to	14.79	16.49	to	17.16		
chlorocatechol	DB-1	14.89	to	15.59	16.47	to	17.18		
-Trichloroguaiacol	DB-1	16.89	to	17.62	16.46	to	17.19		
chlorovanillin	DB-1	19.41	to	20.17	21.60	to	22.36		
syringaldehyde	DB-1	19.93	to	20.71	23.22	to	24.00		
-Trichlorocatechol	DB-1	21.00	to	21.76	22.43	to	23.19		
rosyrosingol	DB-1	22.71	to	23.49	23.22	to	24.01		
chlorosyringaldehyde	DB-1	26.22	to	27.05	28.16	to	28.99		
MIX B									
ophenol	DB-608	3.88	to	4.06	3.41	to	3.59		
chlorophenol	DB-608	5.80	to	6.07	5.22	to	5.49		
guaiacol	DB-608	7.25	to	7.57	8.09	to	8.41		
-Trichlorophenol	DB-608	8.10	to	8.43	7.18	to	7.52		
-Trichlorophenol	DB-608	9.74	to	10.11	8.70	to	9.07		
uaic平	DB-608	12.51	to	12.95	13.09	to	13.53		
.6-Tetrachlorophenol	DB-608	13.99	to	14.45	13.50	to	13.96		
-Trichloroguaiacol	DB-608	14.56	to	15.04	14.13	to	14.61		
chlorocatechol	DB-608	16.02	to	16.50	16.33	to	16.82		
-Trichloroguaiacol	DB-608	18.08	to	18.60	19.74	to	20.26		
chlorophenol	DB-608	21.16	to	21.72	19.97	to	20.53		
chloroguaiacol	DB-608	22.21	to	22.75	21.82	to	22.36		
chlorocatechol	DB-608	26.08	to	26.65	26.73	to	27.30		
-Trichlorophenol	DB-608	11.82	11.59	to	12.04	10.56	10.30	to	10.75

IDENTIFICATIONS

19375

ATI No. 90-05-037-01

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time		Window	Observed Ret. Time		Window		
MIX A									
chlorophenol	DB-1	5.34	to	5.68	5.26	to	5.61		
chlorophenol	DB-1	6.10	to	6.49	4.84	to	5.23		
chlorophenol	DB-1	7.02	to	7.45	6.30	to	6.73		
guaiacol	DB-1	7.41	to	7.86	8.03	to	8.48		
Trichlorophenol	DB-1	9.15	to	9.66	9.02	to	9.53		
chloroguaiacol	DB-1	10.86	to	11.44	11.54	to	12.13		
chlorocatechol	DB-1	13.45	to	14.14	13.79	to	14.48		
ovanillin	DB-1	14.12	to	14.79	16.49	to	17.16		
chlorocatechol	DB-1	14.89	to	15.59	16.47	to	17.18		
Trichloroguaiacol	DB-1	16.89	to	17.62	16.46	to	17.19		
chlorovanillin	DB-1	19.41	to	20.17	21.60	to	22.36		
syringaldehyde	DB-1	19.93	to	20.71	23.22	to	24.00		
Trichlorocatechol	DB-1	21.00	to	21.76	22.43	to	23.19		
rosyrosingol	DB-1	22.71	to	23.49	23.22	to	24.01		
chlorosyringaldehyde	DB-1	26.22	to	27.05	28.16	to	28.99		
MIX B									
rophenol	DB-608	3.88	to	4.06	3.41	to	3.59		
chlorophenol	DB-608	5.80	to	6.07	5.22	to	5.49		
guaiacol	DB-608	7.25	to	7.57	8.09	to	8.41		
Trichlorophenol	DB-608	8.10	to	8.43	7.18	to	7.52		
Trichlorophenol	DB-608	9.74	to	10.11	8.70	to	9.07		
iacol	DB-608	12.51	to	12.95	13.09	to	13.53		
5-Tetrachlorophenol	DB-608	13.99	to	14.45	13.50	to	13.96		
Trichloroguaiacol	DB-608	14.56	to	15.04	14.13	to	14.61		
chlorocatechol	DB-608	16.02	to	16.50	16.33	to	16.82		
Trichloroguaiacol	DB-608	18.08	to	18.60	19.74	to	20.26		
lorophenol	DB-608	21.16	to	21.72	19.97	to	20.53		
loroguaiacol	DB-608	22.21	to	22.75	21.82	to	22.36		
lorocatechol	DB-608	26.08	to	26.65	26.73	to	27.30		
Trichlorophenol	DB-608	11.72	11.59	to	12.04	10.59	10.30	to	10.75

IDENTIFICATIONS

19376

ATI No. 90-05-037-02

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.34	to 5.68			5.26	to 5.61
chlorophenol	DB-1	6.22	to 6.49	5.18		4.84	to 5.23
chlorophenol	DB-1	7.02	to 7.45			6.30	to 6.73
guaiacol	DB-1	7.41	to 7.86	8.40		8.03	to 8.48
Trichlorophenol	DB-1	9.15	to 9.66			9.02	to 9.53
chloroguaiacol	DB-1	10.86	to 11.44			11.54	to 12.13
chlorocatechol	DB-1	13.72	to 14.14	13.96		13.79	to 14.48
rovanillin	DB-1	14.12	to 14.79			16.49	to 17.16
chlorocatechol	DB-1	14.95	to 15.59	16.96		16.47	to 17.18
Trichloroguaiacol	DB-1	17.22	to 17.62	16.96		16.46	to 17.19
chlorovanillin	DB-1	19.73	to 20.17	21.95		21.60	to 22.36
syringaldehyde	DB-1	19.93	to 20.71			23.22	to 24.00
Trichlorocatechol	DB-1	21.32	to 21.76	22.72		22.43	to 23.19
rosyringol	DB-1	23.02	to 23.49	23.65		23.22	to 24.01
chlorosyringaldehyde	DB-1	26.22	to 27.05			28.16	to 28.99
MIX B							
rophenol	DB-608	3.88	to 4.06			3.41	to 3.59
chlorophenol	DB-608	5.80	to 6.07			5.22	to 5.49
guaiacol	DB-608	7.25	to 7.57			8.09	to 8.41
Trichlorophenol	DB-608	8.21	to 8.43	7.26		7.18	to 7.52
Trichlorophenol	DB-608	9.88	to 10.11	9.01		8.70	to 9.07
aiacol	DB-608	12.51	to 12.95			13.09	to 13.53
6-Tetrachlorophenol	DB-608	13.99	to 14.45			13.50	to 13.96
Trichloroguaiacol	DB-608	14.56	to 15.04			14.13	to 14.61
chlorocatechol	DB-608	16.02	to 16.50			16.33	to 16.82
Trichloroguaiacol	DB-608	18.08	to 18.60			19.74	to 20.26
lorophenol	DB-608	21.32	to 21.72	20.26		19.97	to 20.53
loroguaiacol	DB-608	22.30	to 22.75	21.95		21.82	to 22.36
lorocatechol	DB-608	26.08	to 26.65			26.73	to 27.30
Trichlorophenol	DB-608	11.74	to 12.04	10.72		10.30	to 10.75

IDENTIFICATIONS

J. 19377

ATI No. 90-05-037-03

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.34	to 5.68			5.26	to 5.61
chlorophenol	DB-1	6.10	to 6.49			4.84	to 5.23
chlorophenol	DB-1	7.41	to 7.45	6.52		6.30	to 6.73
guaiacol	DB-1	7.62	to 7.86	8.28		8.03	to 8.48
Trichlorophenol	DB-1	9.15	to 9.66			9.02	to 9.53
chloroguaiacol	DB-1	10.86	to 11.44			11.54	to 12.13
chlorocatechol	DB-1	13.79	13.45 to 14.14	14.16		13.79	to 14.48
vanillin	DB-1	14.12	to 14.79			16.49	to 17.16
chlorocatechol	DB-1	14.89	to 15.59			16.47	to 17.18
Trichloroguaiacol	DB-1	16.89	to 17.62			16.46	to 17.19
chlorovanillin	DB-1	19.41	to 20.17			21.60	to 22.36
syringaldehyde	DB-1	19.93	to 20.71			23.22	to 24.00
Trichlorocatechol	DB-1	21.00	to 21.76			22.43	to 23.19
rosyringol	DB-1	22.71	to 23.49			23.22	to 24.01
chlorosyringaldehyde	DB-1	26.22	to 27.05			28.16	to 28.99
MIX B							
phenol	DB-608	3.91	3.88 to 4.06	3.51		3.41	to 3.69
chlorophenol	DB-608		5.80 to 6.07			5.22	to 5.49
guaiacol	DB-608		7.25 to 7.57			8.09	to 8.42
Trichlorophenol	DB-608		8.10 to 8.43			7.18	to 7.51
Trichlorophenol	DB-608	9.93	9.74 to 10.11	8.85		8.70	to 9.17
chloroguaiacol	DB-608		12.51 to 12.95			13.09	to 13.53
6-Tetrachlorophenol	DB-608		13.99 to 14.45			13.50	to 13.96
Trichloroguaiacol	DB-608		14.56 to 15.04			14.11	to 14.51
chlorocatechol	DB-608	16.27	16.02 to 16.50	16.61		16.33	to 16.81
Trichloroguaiacol	DB-608		18.08 to 18.60			19.74	to 20.26
chlorophenol	DB-608		21.16 to 21.72			19.97	to 20.53
chloroguaiacol	DB-608		22.21 to 22.75			21.82	to 22.36
chlorocatechol	DB-608	26.26	26.08 to 26.65	27.07		26.71	to 27.32
Trichlorophenol	DB-608	11.81	11.59 to 12.04	10.54		11.30	to 11.75

IDENTIFICATIONS

No. 19378

ATI No. 90-05-037-04

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
Dichlorophenol	DB-1	5.34	to	5.68			5.26 to 5.61
Dichlorophenol	DB-1	6.10	to	6.49			4.84 to 5.23
Dichlorophenol	DB-1	7.02	to	7.45			6.30 to 6.73
loroguaiacol	DB-1	7.41	to	7.86			8.03 to 8.48
-Trichlorophenol	DB-1	9.15	to	9.66			9.02 to 9.53
Dichloroguaiacol	DB-1	10.93	10.86	to 11.44	11.86	11.54	to 12.13
Dichlorocatechol	DB-1		13.45	to 14.14		13.79	to 14.48
lorovanillin	DB-1		14.12	to 14.79		16.49	to 17.16
Dichlorocatechol	DB-1		14.89	to 15.59		16.47	to 17.18
-Trichloroguaiacol	DB-1	17.28	16.89	to 17.62	16.68	16.46	to 17.19
Dichlorovanillin	DB-1		19.41	to 20.17		21.60	to 22.36
rosyringaldehyde	DB-1		19.93	to 20.71		23.22	to 24.00
-Trichlorocatechol	DB-1		21.00	to 21.76		22.43	to 23.19
lorosyringol	DB-1	23.13	22.71	to 23.49	23.64	23.22	to 24.01
Dichlorosyringaldehyde	DB-1	26.65	26.22	to 27.05	28.57	28.16	to 28.99
MIX B							
orophenol	DB-608		3.88	to 4.06		3.41	to 3.59
Dichlorophenol	DB-608	5.93	5.80	to 6.07	5.39	5.22	to 5.49
-Trichlorophenol	DB-608	8.28	7.25	to 7.57	7.37	8.09	to 8.41
oroguaiacol	DB-608		8.10	to 8.43		7.18	to 7.52
-Trichlorophenol	DB-608	9.95	9.74	to 10.11	8.85	8.70	to 9.07
Dichloroguaiacol	DB-608		12.51	to 12.95		13.09	to 13.53
,6-Tetrachlorophenol	DB-608		13.99	to 14.45		13.50	to 13.96
-Trichloroguaiacol	DB-608	14.83	14.56	to 15.04	14.41	14.13	to 14.61
Dichlorocatechol	DB-608		16.02	to 16.50		16.33	to 16.82
-Trichloroguaiacol	DB-608	18.37	18.08	to 18.60	20.03	19.74	to 20.26
chlorophenol	DB-608		21.16	to 21.72		19.97	to 20.53
chloroguaiacol	DB-608		22.21	to 22.75		21.82	to 22.36
chlorocatechol	DB-608		26.08	to 26.65		26.73	to 27.30
-Trichlorophenol	DB-608	11.82	11.59	to 12.04	10.54	10.30	to 10.75

IDENTIFICATIONS

b. 19379

ATI No. 90-05-037-05

COMPOUND	Quant. Column	DB-1 column			DB-608 column				
		Observed Ret. Time		Window	Observed Ret. Time		Window		
MIX A									
chlorophenol	DB-1		5.34	to	5.68		5.26	to	5.61
chlorophenol	DB-1	6.25	6.10	to	6.49	4.98	4.84	to	5.23
chlorophenol	DB-1		7.02	to	7.45		6.30	to	6.73
guaiacol	DB-1		7.41	to	7.86		8.03	to	8.48
trichlorophenol	DB-1		9.15	to	9.66		9.02	to	9.53
chloroguaiacol	DB-1		10.86	to	11.44		11.54	to	12.13
chlorocatechol	DB-1		13.45	to	14.14		13.79	to	14.48
ovanillin	DB-1		14.12	to	14.79		16.49	to	17.16
chlorocatechol	DB-1		14.89	to	15.59		16.47	to	17.18
trichloroguaiacol	DB-1		16.89	to	17.62		16.46	to	17.19
chlorovanillin	DB-1		19.41	to	20.17		21.60	to	22.36
syringaldehyde	DB-1		19.93	to	20.71		23.22	to	24.00
trichlorocatechol	DB-1		21.00	to	21.76		22.43	to	23.19
rosyringol	DB-1		22.71	to	23.49		23.22	to	24.01
chlorosyringaldehyde	DB-1		26.22	to	27.05		28.16	to	28.99
MIX B									
phenol	DB-608		3.88	to	4.06		3.41	to	3.59
chlorophenol	DB-608		5.80	to	6.07		5.22	to	5.49
guaiacol	DB-608		7.25	to	7.57		8.09	to	8.41
trichlorophenol	DB-608		8.10	to	8.43		7.18	to	7.52
trichlorophenol	DB-608		9.74	to	10.11		8.70	to	9.07
guaiacol	DB-608		12.51	to	12.95		13.09	to	13.53
6-Tetrachlorophenol	DB-608		13.99	to	14.45		13.50	to	13.96
trichloroguaiacol	DB-608		14.56	to	15.04		14.13	to	14.61
chlorocatechol	DB-608		16.02	to	16.50		16.33	to	16.82
trichloroguaiacol	DB-608		18.08	to	18.60		19.74	to	20.26
chlorophenol	DB-608		21.16	to	21.72		19.97	to	20.53
chloroguaiacol	DB-608		22.21	to	22.75		21.82	to	22.36
chlorocatechol	DB-608		26.08	to	26.65		26.73	to	27.30
trichlorophenol	DB-608	11.79	11.59	to	12.04	10.73	10.30	to	10.75

IDENTIFICATIONS

D. 19380

ATI No. 90-05-037-06

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
chlorophenol	DB-1	5.34	to 5.68	5.26	to 5.61		
chlorophenol	DB-1	6.10	to 6.49	4.84	to 5.23		
chlorophenol	DB-1	7.02	to 7.45	6.30	to 6.73		
guaiacol	DB-1	7.41	to 7.86	8.03	to 8.48		
Trichlorophenol	DB-1	9.15	to 9.66	9.02	to 9.53		
chloroguaiacol	DB-1	10.86	to 11.44	11.54	to 12.13		
chlorocatechol	DB-1	13.45	to 14.14	13.79	to 14.48		
vanillin	DB-1	14.12	to 14.79	16.49	to 17.16		
chlorocatechol	DB-1	14.89	to 15.59	16.47	to 17.18		
Trichloroguaiacol	DB-1	16.89	to 17.62	16.46	to 17.19		
chlorovanillin	DB-1	19.41	to 20.17	21.60	to 22.36		
syringaldehyde	DB-1	19.93	to 20.71	23.22	to 24.00		
Trichlorocatechol	DB-1	21.00	to 21.76	22.43	to 23.19		
rosy ringol	DB-1	22.71	to 23.49	23.22	to 24.01		
chlorosyringaldehyde	DB-1	26.22	to 27.05	28.16	to 28.99		
MIX B							
prophenol	DB-608	3.88	to 4.06	3.41	to 3.59		
chlorophenol	DB-608	5.80	to 6.07	5.22	to 5.49		
guaiacol	DB-608	7.25	to 7.57	8.09	to 8.41		
Trichlorophenol	DB-608	8.10	to 8.43	7.18	to 7.52		
Trichlorophenol	DB-608	9.74	to 10.11	8.70	to 9.07		
guaiacol	DB-608	12.51	to 12.95	13.09	to 13.53		
6-Tetrachlorophenol	DB-608	13.99	to 14.45	13.50	to 13.96		
Trichloroguaiacol	DB-608	14.56	to 15.04	14.13	to 14.61		
chlorocatechol	DB-608	16.02	to 16.50	16.33	to 16.82		
Trichloroguaiacol	DB-608	18.08	to 18.60	19.74	to 20.26		
chlorophenol	DB-608	21.16	to 21.72	19.97	to 20.53		
chloroguaiacol	DB-608	22.21	to 22.75	21.82	to 22.36		
chlorocatechol	DB-608	26.08	to 26.65	26.73	to 27.30		
Trichlorophenol	DB-608	11.73	11.59 to 12.04	10.65	10.30 to 10.75		

IDENTIFICATIONS

0. 19381

ATI No. 90-05-037-07

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
Dichlorophenol	DB-1	5.51	5.34 to 5.68	5.59	5.26 to 5.61		
Dichlorophenol	DB-1		6.10 to 6.49		4.84 to 5.23		
Dichlorophenol	DB-1		7.02 to 7.45		6.30 to 6.73		
Chloroguaiacol	DB-1	7.53	7.41 to 7.86	8.33	8.03 to 8.48		
Trichlorophenol	DB-1		9.15 to 9.66		9.02 to 9.53		
Dichloroguaiacol	DB-1		10.86 to 11.44		11.54 to 12.13		
Dichlorocatechol	DB-1	13.69	13.45 to 14.14	11.95	13.79 to 14.48		
Chlorovanillin	DB-1	14.36	14.12 to 14.79	14.26	16.49 to 17.16		
Dichlorocatechol	DB-1	15.16	14.89 to 15.59	16.74	16.47 to 17.18		
Trichloroguaiacol	DB-1		16.89 to 17.62		16.46 to 17.19		
Dichlorovanillin	DB-1	19.70	19.41 to 20.17	21.83	21.60 to 22.36		
Syringaldehyde	DB-1		19.93 to 20.71		23.22 to 24.00		
Trichlorocatechol	DB-1		21.00 to 21.76		22.43 to 23.19		
Chlorosyringol	DB-1		22.71 to 23.49		23.22 to 24.01		
Dichlorosyringaldehyde	DB-1		26.22 to 27.05		28.16 to 28.99		
MIX B							
Chlorophenol	DB-608		3.88 to 4.06		3.41 to 3.59		
Dichlorophenol	DB-608		5.80 to 6.07		5.22 to 5.49		
Chloroguaiacol	DB-608		7.25 to 7.57		8.09 to 8.41		
Trichlorophenol	DB-608	8.20	8.10 to 8.43	7.43	7.18 to 7.52		
Trichlorophenol	DB-608	9.87	9.74 to 10.11	8.93	8.70 to 9.07		
Guaiacol	DB-608		12.51 to 12.95		13.09 to 13.53		
1,6-Tetrachlorophenol	DB-608		13.99 to 14.45		13.50 to 13.96		
Trichloroguaiacol	DB-608		14.56 to 15.04		14.13 to 14.61		
Dichlorocatechol	DB-608		16.02 to 16.50		16.33 to 16.82		
Trichloroguaiacol	DB-608		18.08 to 18.60		19.74 to 20.26		
Chlorophenol	DB-608		21.16 to 21.72		19.97 to 20.53		
Chloroguaiacol	DB-608		22.21 to 22.75		21.82 to 22.36		
Dichlorocatechol	DB-608		26.08 to 26.65		26.73 to 27.30		
Trichlorophenol	DB-608	11.73	11.59 to 12.04	10.63	10.30 to 10.75		

IDENTIFICATIONS

No. 19382

ATI No. 90-05-037-08

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time		Window	Observed Ret. Time		Window
MIX A							
Dichlorophenol	DB-1	5.34	to	5.68			5.26 to 5.61
Dichlorophenol	DB-1	6.10	to	6.49			4.84 to 5.23
Dichlorophenol	DB-1	7.02	to	7.45			6.30 to 6.73
Guaiacol	DB-1	7.41	to	7.86			8.03 to 8.48
6-Trichlorophenol	DB-1	9.42	9.15	to 9.66	9.25	9.02 to 9.53	
Dichloroguaiacol	DB-1	10.87	10.86	to 11.44	11.94	11.54 to 12.13	
Dichlorocatechol	DB-1	13.72	13.45	to 14.14	14.25	13.79 to 14.48	
Guavanillin	DB-1	14.38	14.12	to 14.79	16.94	16.49 to 17.16	
Dichlorocatechol	DB-1	15.17	14.89	to 15.59	16.94	16.47 to 17.18	
5-Trichloroguaiacol	DB-1	17.18	16.89	to 17.62	16.94	16.46 to 17.19	
Dichlorovanillin	DB-1		19.41	to 20.17		21.60 to 22.36	
Syringaldehyde	DB-1		19.93	to 20.71		23.22 to 24.00	
5-Trichlorocatechol	DB-1		21.00	to 21.76		22.43 to 23.19	
Guaiacol	DB-1	23.02	22.71	to 23.49	23.74	23.22 to 24.01	
Dichlorosyringaldehyde	DB-1	26.73	26.22	to 27.05	28.67	28.16 to 28.99	
MIX B							
Chlorophenol	DB-608	3.92	3.88	to 4.06	3.52	3.41 to 3.59	
Dichlorophenol	DB-608	5.90	5.80	to 6.07	5.42	5.22 to 5.49	
Guaiacol	DB-608		7.25	to 7.57		8.09 to 8.41	
6-Trichlorophenol	DB-608	8.22	8.10	to 8.43	7.42	7.18 to 7.52	
5-Trichlorophenol	DB-608	9.88	9.74	to 10.11	8.91	8.70 to 9.07	
Guaiacol	DB-608		12.51	to 12.95		13.09 to 13.53	
4,6-Tetrachlorophenol	DB-608		13.99	to 14.45		13.50 to 13.96	
6-Trichloroguaiacol	DB-608		14.56	to 15.04		14.13 to 14.61	
Dichlorocatechol	DB-608	16.21	16.02	to 16.50	16.70	16.33 to 16.82	
6-Trichloroguaiacol	DB-608		18.08	to 18.60		19.74 to 20.26	
Chlorophenol	DB-608	21.30	21.16	to 21.72	20.14	19.97 to 20.53	
Dichloroguaiacol	DB-608		22.21	to 22.75		21.82 to 22.36	
Dichlorocatechol	DB-608		26.08	to 26.65		26.73 to 27.30	
5-Trichlorophenol	DB-608	11.75	11.59	to 12.04	10.63	10.30 to 10.75	

IDENTIFICATIONS

No. 19383

ATI No. 90-05-037-09

COMPOUND	Quant. Column	DB-1 column			DB-608 column		
		Observed Ret. Time	Window	Observed Ret. Time	Window		
MIX A							
Dichlorophenol	DB-1	5.34	to 5.68			5.26	to 5.61
Dichlorophenol	DB-1	6.10	to 6.49			4.84	to 5.23
Dichlorophenol	DB-1	7.02	to 7.45			6.30	to 6.73
Guaiacol	DB-1	7.41	to 7.86			8.03	to 8.48
<i>p</i> -Trichlorophenol	DB-1	9.15	to 9.66			9.02	to 9.53
Dichloroguaiacol	DB-1	10.87	10.86 to 11.44	11.93		11.54	to 12.13
Dichlorocatechol	DB-1	13.73	13.45 to 14.14	14.25		13.79	to 14.48
orovanillin	DB-1	14.38	14.12 to 14.79	16.72		16.49	to 17.16
Dichlorocatechol	DB-1		14.89 to 15.59			16.47	to 17.18
<i>p</i> -Trichloroguaiacol	DB-1		16.89 to 17.62			16.46	to 17.19
Dichlorovanillin	DB-1		19.41 to 20.17			21.60	to 22.36
Syringaldehyde	DB-1	20.26	19.93 to 20.71	23.73		23.22	to 24.00
<i>p</i> -Trichlorocatechol	DB-1		21.00 to 21.76			22.43	to 23.19
orosyringol	DB-1	23.03	22.71 to 23.49	23.73		23.22	to 24.01
Dichlorosyringaldehyde	DB-1	26.58	26.22 to 27.05	28.67		28.16	to 28.99
MIX B							
orophenol	DB-608	3.88	to 4.06			3.41	to 3.59
Dichlorophenol	DB-608	5.92	5.80 to 6.07	5.42		5.22	to 5.49
Guaiacol	DB-608		7.25 to 7.57			8.09	to 8.41
<i>p</i> -Trichlorophenol	DB-608	8.22	8.10 to 8.43	7.42		7.18	to 7.52
<i>p</i> -Trichlorophenol	DB-608	9.89	9.74 to 10.11	8.91		8.70	to 9.07
Guaiacol	DB-608		12.51 to 12.95			13.09	to 13.53
1,6-Tetrachlorophenol	DB-608	14.38	13.99 to 14.45	13.65		13.50	to 13.96
<i>p</i> -Trichloroguaiacol	DB-608		14.56 to 15.04			14.13	to 14.61
Dichlorocatechol	DB-608	16.22	16.02 to 16.50	16.72		16.33	to 16.82
<i>p</i> -Trichloroguaiacol	DB-608		18.08 to 18.60			19.74	to 20.26
Dichlorophenol	DB-608	21.31	21.16 to 21.72	20.14		19.97	to 20.53
Dichloroguaiacol	DB-608		22.21 to 22.75			21.82	to 22.36
Dichlorocatechol	DB-608		26.08 to 26.65			26.73	to 27.30
<i>p</i> -Trichlorophenol	DB-608	11.76	11.59 to 12.04	10.63		10.30	to 10.75

e 5 Initial Precision and Recovery

COMPOUND	Quant. Column	Conc. Expected	Conc.	Conc.	Conc.	Conc.	Mean Conc.	% RSD
			Found Rep 1	Found Rep 2	Found Rep 3	Found Rep 4		
Concentration in ug/L								
MIX A								
Dichlorophenol	DB-1	100	92	94	110	134	107	15.5
Dichlorophenol	DB-1	100	97	110	105	115	107	6.4
Dichlorophenol	DB-1	100	98	109	108	117	108	6.3
Ioroguaiacol	DB-1	200	193	215	218	237	216	7.2
6-Trichlorophenol	DB-1	40	40	44	45	48	44	5.9
Dichloroguaiacol	DB-1	100	106	115	112	122	113	5.1
6-Trichlorophenol	DB-1	100	102	111	106	118	109	5.5
Dichlorocatechol	DB-1	100	100	112	107	116	109	5.5
Iorovanillin	DB-1	200	196	220	207	232	214	6.3
Dichlorocatechol	DB-1	200	200	223	218	228	217	4.9
5-Trichloroguaiacol	DB-1	40	38	44	43	46	43	6.9
Dichlorovanillin	DB-1	200	196	236	211	223	216	6.7
Syringaldehyde	DB-1	200	201	238	209	226	218	6.6
5-Trichlorocatechol	DB-1	100	100	109	104	113	107	4.6
Chlorosyringol	DB-1	100	98	108	107	114	107	5.4
Dichlorosyringaldehyde	DB-1	500	486	581	502	541	528	7.0
MIX B								
Iorophenol	DB-1	100	92	87	96	98	93	4.6
Dichlorophenol	DB-1	40	38	36	42	36	38	6.2
Ioroguaiacol	DB-1	200	185	184	204	181	188	4.9
6-Trichlorophenol	DB-1	100	99	97	105	98	99	3.1
5-Trichlorophenol	DB-1	100	95	95	106	103	100	4.7
5-Trichlorophenol	DB-1	100	92	93	105	97	97	5.1
4,6-Tetrachlorophenol	DB-1	100	94	100	104	97	99	3.7
6-Trichloroguaiacol	DB-1	100	97	99	106	99	100	3.1
Dichloroguaiacol	DB-1	100	104	108	116	110	110	3.9
Dichlorocatechol	DB-1	200	187	195	199	192	193	2.4
6-Trichloroguaiacol	DB-1	40	39	38	41	37	39	3.6
Chlorophenol	DB-1	20	19	20	20	21	20	2.8
Chloroguaiacol	DB-1	40	37	38	41	39	39	3.6
Chlorocatechol	DB-1	100	97	104	103	102	102	2.7

6 On-going Precision and Recovery

COMPOUND	Quanti-tation Column	Spike Conc. ug/L	Sample: 90-05-031-OPR		Sample: 90-05-033-OPR	
			Conc. Found ug/L	Percent Recovery	Conc. Found ug/L	Percent Recovery
chlorophenol	DB-1	25	24	95	30	120
chlorophenol	DB-1	25	24	96	31	126
chlorophenol	DB-1	25	25	99	31	126
guaiacol	DB-1	50	47	95	63	126
Trichlorophenol	DB-1	13	10	79	13	106
chloroguaiacol	DB-1	25	25	99	31	125
chlorocatechol	DB-1	25	25	99	32	129
chlorocatechol	DB-1	50	49	97	61	122
Trichloroguaiacol	DB-1	13	10	82	13	107
Trichlorocatechol	DB-1	25	24	98	32	128
syringol	DB-1	25	24	95	30	119

COMPOUND	Quanti-tation Column	Spike Conc. ug/L	Sample: 90-05-037-OPR	
			Conc. Found ug/L	Percent Recovery
chlorophenol	DB-1	25	24	95
chlorophenol	DB-1	25	24	96
chlorophenol	DB-1	25	25	99
guaiacol	DB-1	50	47	95
Trichlorophenol	DB-1	13	10	79
chloroguaiacol	DB-1	25	25	99
chlorocatechol	DB-1	25	25	99
chlorocatechol	DB-1	50	49	97
Trichloroguaiacol	DB-1	13	10	82
Trichlorocatechol	DB-1	25	24	98
syringol	DB-1	25	24	95

1 Surrogate Recoveries

Sample	Chemex ID	Concentration 3,4,5-trichloro- phenol Added (ug/L)	Concentration 3,4,5-trichloro- phenol Found (ug/L)	Percent Recovery
151	90-05-031-00	25	21	83
155	90-05-031-01	25	14	55
156	90-05-031-02	25	22	90
157	90-05-031-03	25	23	91
158	90-05-031-04	25	16	62
159	90-05-031-05	25	16	63
160	90-05-031-06	25	13	51
161	90-05-031-07	25	11	44
162	90-05-031-08	25	10	39
163	90-05-033-00	25	23	93
164	90-05-033-01	25	18	73
165	90-05-033-02	25	20	78
166	90-05-033-03	25	28	113
167	90-05-033-04	25	30	120
168	90-05-033-05	25	23	90
169	90-05-033-06	25	11	42
170	90-05-033-07	25	21	84
171	90-05-033-08	25	21	84
172	90-05-033-09	25	17	68
173	90-05-033-10	25	14	54
174	90-05-037-00	25	18	72
175	90-05-037-01	25	26	104
176	90-05-037-02	25	33	134
177	90-05-037-03	25	37	146
178	90-05-037-04	25	32	128
179	90-05-037-05	25	47	188
180	90-05-037-06	25	10	40
181	90-05-037-07	25	28	112
182	90-05-037-08	25	28	112
183	90-05-037-09	25	38	150
184	MATSPK Blank	5	4.5	90

8 Matrix Spike Recoveries

COMPOUND	Quanti-tation Column	Spike Conc. ug/L	Sample: 90-05-031-08			Sample: 90-05-033-01		
			Sample Conc. ug/L	Conc. ug/L	Found ug/L	Percent Recovery	Sample Conc. ug/L	Conc. ug/L
chlorophenol	DB-1	50	<	0.3	53	107	0.4	49
chlorophenol	DB-1	50	<	0.3	49	98	< 0.3	48
chlorophenol	DB-1	50	<	0.3	52	104	< 0.3	55
guaiacol	DB-1	100	<	0.5	100	100	< 0.5	97
Trichlorophenol	DB-1	20	<	0.1	2	10	< 0.1	20
chloroguaiacol	DB-1	50		1.2	52	102	10.9	60
chlorocatechol	DB-1	50		1.8	54	105	< 0.5	51
rovanillin	DB-1	100		1.8	81	79	0.5	77
chlorocatechol	DB-1	100		1.1	100	99	< 2.5	100
Trichloroguaiacol	DB-1	50	<	0.1	22	44	0.5	20
chlorovanillin	DB-1	100	<	0.5	81	81	< 0.5	83
syringaldehyde	DB-1	100	<	0.5	85	85	2.0	79
Trichlorocatechol	DB-1	50	<	0.3	58	117	< 0.3	51
rosyringol	DB-1	50		0.4	52	104	< 0.3	50
chlorosyringaldehyde	DB-1	250		1.1	219	87	< 1.3	199

COMPOUND	Quanti-tation Column	Spike Conc. ug/L	Sample: 90-05-037-06		
			Sample Conc. ug/L	Conc. ug/L	Found ug/L
chlorophenol	DB-1	50	<	0.3	51
chlorophenol	DB-1	50	<	0.3	50
chlorophenol	DB-1	50	<	0.3	49
guaiacol	DB-1	100	<	0.5	100
Trichlorophenol	DB-1	20	<	0.1	20
chloroguaiacol	DB-1	50	<	0.3	50
chlorocatechol	DB-1	50	<	0.5	51
rovanillin	DB-1	100	<	0.5	83
chlorocatechol	DB-1	100	<	2.5	102
Trichloroguaiacol	DB-1	50	<	0.1	20
chlorovanillin	DB-1	100	<	0.5	79
syringaldehyde	DB-1	100	<	0.5	82
Trichlorocatechol	DB-1	50	<	0.3	51
rosyringol	DB-1	50	<	0.3	48
chlorosyringaldehyde	DB-1	250	<	1.3	206

9 Run Chronology

Sample	Date Received	Date Extracted	Column: DB-1		Column: DB-608	
			Date Analyzed	Time	Date Analyzed	Time
ration std A High, curve 1	N/A	05-25-90	06-07-90	11:26	06-07-90	10:31
ration std A 1:2, curve 1	N/A	05-25-90	06-07-90	12:05	06-07-90	11:21
ration std A 1:4, curve 1	N/A	05-25-90	06-07-90	12:43	06-07-90	12:05
ration std A 1:20, curve 1	N/A	05-25-90	06-07-90	14:02	06-07-90	14:03
ration std B High, curve 1	N/A	05-25-90	06-07-90	15:36	06-07-90	13:20
ration std B 1:2, curve 1	N/A	05-25-90	06-07-90	16:13	06-07-90	15:36
ration std B 1:4, curve 1	N/A	05-25-90	06-07-90	16:51	06-07-90	16:13
ration std B 1:20, curve 1	N/A	05-25-90	06-07-90	17:28	06-07-90	16:51
-031-OPR (100:5mL)	05-17-90	05-17-90	06-07-90	18:05	06-07-90	17:28
-033-OPR (100:5mL)	05-18-90	05-21-90	06-07-90	18:43	06-07-90	18:05
-037-OPR (100:5mL)	05-19-90	05-29-90	06-07-90	19:20	06-07-90	18:43
-031-02 (100:5mL)	05-17-90	05-17-90	06-07-90	20:34	06-07-90	19:57
-031-03 (100:5mL)	05-17-90	05-17-90	06-07-90	21:11	06-07-90	20:34
-033-03 (100:5mL)	05-18-90	05-21-90	06-07-90	21:49	06-07-90	21:11
-033-04 (100:5mL)	05-18-90	05-21-90	06-07-90	22:26	06-07-90	21:49
1:4 Calibr. Verification	N/A	05-25-90	06-07-90	23:40	06-07-90	23:03
1:4 Calibr. Verification	N/A	05-25-90	06-08-90	00:18	06-07-90	23:40
-037-03 (100:5mL)	05-19-90	05-29-90	06-08-90	00:55	06-08-90	00:18
-037-04 (100:5mL)	05-19-90	05-29-90	06-08-90	01:32	06-08-90	00:55
1:4 Calibr. Verification	N/A	05-25-90	06-08-90	14:30	06-08-90	13:53
1:4 Calibr. Verification	N/A	05-25-90	06-08-90	15:07	06-08-90	14:30
-031-00 (100:0.5mL)	05-17-90	05-17-90	06-08-90	17:50	06-08-90	17:13
-033-00 (100:0.5mL)	05-18-90	05-21-90	06-08-90	18:27	06-08-90	17:50
-037-00 (100:0.5mL)	05-19-90	05-29-90	06-08-90	19:05	06-08-90	18:27
-031-01 (100:0.5mL)	05-17-90	05-17-90	06-08-90	19:42	06-08-90	19:05
-031-04 (100:0.5mL)	05-17-90	05-17-90	06-08-90	20:19	06-08-90	19:42
-031-05 (100:0.5mL)	05-17-90	05-17-90	06-08-90	20:57	06-08-90	20:19
-031-06 (100:0.5mL)	05-17-90	05-17-90	06-08-90	21:34	06-08-90	20:57
-031-07 (100:0.5mL)	05-17-90	05-17-90	06-08-90	22:11	06-08-90	21:34
1:4 Calibr. Verification	N/A	05-25-90	06-08-90	23:26	06-08-90	22:48
1:4 Calibr. Verification	N/A	05-25-90	06-09-90	00:03	06-08-90	23:26
ration std A High, curve 2	N/A	05-25-90	06-10-90	12:32		
ration std A 1:2, curve 2	N/A	05-25-90	06-10-90	13:08		
ration std A 1:4, curve 2	N/A	05-25-90	06-10-90	13:45		
ration std A 1:20, curve 2	N/A	05-25-90	06-10-90	14:22		
ration std B High, curve 2	N/A	05-25-90	06-10-90	14:58		
ration std B 1:2, curve 2	N/A	05-25-90	06-10-90	15:35		
ration std B 1:4, curve 2	N/A	05-25-90	06-10-90	16:11		
ration std B 1:20, curve 2	N/A	05-25-90	06-10-90	16:48		
-031-08 (100:0.5mL)	05-17-90	05-17-90	06-10-90	17:24	06-09-90	00:03
-033-01 (100:0.5mL)	05-18-90	05-21-90	06-10-90	18:01	06-09-90	00:40
-033-02 (100:0.5mL)	05-18-90	05-21-90	06-10-90	18:37	06-09-90	01:17
-033-05 (100:0.5mL)	05-18-90	05-21-90	06-10-90	19:14	06-09-90	01:55
-033-06 (100:0.5mL)	05-18-90	05-21-90	06-10-90	19:50	06-09-90	02:32
-033-07 (100:1mL)	05-18-90	05-21-90	06-10-90	20:27	06-09-90	03:09
-033-08 (100:1mL)	05-18-90	05-21-90	06-10-90	21:03	06-09-90	03:46
-033-09 (100:0.5mL)	05-18-90	05-21-90	06-10-90	21:40	06-09-90	04:23

e 9 Run Chronology

Sample	Date Received	Date Extracted	Column: DB-1		Column: DB-608	
			Date Analyzed	Time	Date Analyzed	Time
A 1:4 Calibr. Verification	N/A	05-25-90	06-10-90	22:53	06-09-90	05:38
B 1:4 Calibr. Verification	N/A	05-25-90	06-10-90	23:29	06-09-90	06:15
-033-10 (100:0.5mL)	05-18-90	05-21-90	06-11-90	00:06	06-09-90	06:52
-037-01 (100:0.5mL)	05-19-90	05-29-90	06-11-90	00:42	06-09-90	07:29
-037-02 (100:0.5mL)	05-19-90	05-29-90	06-11-90	01:19	06-09-90	08:34
-037-05 (100:0.5mL)	05-19-90	05-29-90	06-11-90	01:55	06-09-90	10:56
-037-06 (100:0.5mL)	05-19-90	05-29-90	06-11-90	02:32	06-09-90	11:34
-037-07 (100:1mL)	05-19-90	05-29-90	06-11-90	03:08	06-09-90	12:10
-037-08 (100:1mL)	05-19-90	05-29-90	06-11-90	03:44	06-09-90	12:47
-037-09 (100:0.5mL)	05-19-90	05-29-90	06-11-90	04:23	06-09-90	13:23
A 1:4 Calibr. Verification	N/A	05-25-90	06-11-90	05:34	06-09-90	15:44
B 1:4 Calibr. Verification	N/A	05-25-90	06-11-90	06:11	06-09-90	16:23
ration std A High, curve 3	N/A	05-25-90	06-12-90	17:55	06-12-90	17:10
ration std A 1:2, curve 3	N/A	05-25-90	06-12-90	18:32	06-12-90	17:55
ration std A 1:4, curve 3	N/A	05-25-90	06-12-90	19:10	06-12-90	18:32
ration std A 1:20, curve 3	N/A	05-25-90	06-12-90	19:47	06-12-90	19:10
ration std B High, curve 3	N/A	05-25-90	06-12-90	20:24	06-12-90	19:47
ration std B 1:2, curve 3	N/A	05-25-90	06-12-90	21:01	06-12-90	20:24
ration std B 1:4, curve 3	N/A	05-25-90	06-12-90	21:39	06-12-90	21:01
ration std B 1:20, curve 3	N/A	05-25-90	06-12-90	22:16	06-12-90	21:39
	N/A	06-12-90	06-12-90	22:53	06-12-90	22:16
-031-08MS A (100:5mL)	05-17-90	06-12-90	06-13-90	00:08	06-12-90	23:30
-033-01MS A (100:5mL)	05-18-90	06-12-90	06-13-90	00:45	06-13-90	00:08
-037-06MS A (100:5mL)	05-19-90	06-12-90	06-13-90	01:22	06-13-90	00:45
ration std A High, (2.5:1)	N/A	06-12-90	06-13-90	04:28	06-13-90	03:51
ration std B High, (2.5:1)	N/A	06-12-90	06-13-90	05:05	06-13-90	04:28
1:4 Calibr. Verification	N/A	05-25-90	06-13-90	05:43	06-13-90	05:05
1:4 Calibr. Verification	N/A	05-25-90	06-13-90	06:20	06-13-90	05:43

10 Calibration Data Curve 1

Compound	Conc (ug/mL)	Peak Area	DB-1		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
4-chlorophenol	2.00	24292	8.23E-05	7.62E-05	7.3
	1.00	12883	7.76E-05		
	0.50	6431	7.77E-05		
	0.10	1488	6.72E-05		
4-chlorophenol	2.00	22305	8.97E-05	8.63E-05	2.4
	1.00	11667	8.57E-05		
	0.50	5938	8.42E-05		
	0.10	1169	8.55E-05		
4-chlorophenol	2.00	21423	9.34E-05	8.97E-05	2.5
	1.00	11446	8.74E-05		
	0.50	5660	8.83E-05		
	0.10	1115	8.97E-05		
guaiacol	4.00	19406	2.06E-04	2.08E-04	5.2
	2.00	10332	1.94E-04		
	1.00	4822	2.07E-04		
	0.20	893	2.24E-04		
-trichlorophenol	0.80	12475	6.41E-05	6.40E-05	3.5
	0.40	6519	6.14E-05		
	0.20	3164	6.32E-05		
	0.04	593	6.75E-05		
chloroguaiacol	2.00	18857	1.06E-04	1.05E-04	2.4
	1.00	9727	1.03E-04		
	0.50	4878	1.03E-04		
	0.10	920	1.09E-04		
chlorocatechol	2.00	16048	1.25E-04	1.20E-04	2.7
	1.00	8466	1.18E-04		
	0.50	4250	1.18E-04		
	0.10	857	1.17E-04		
rovanillin	4.00	14172	2.82E-04	2.80E-04	2.1
	2.00	7390	2.71E-04		
	1.00	3593	2.78E-04		
	0.20	697	2.87E-04		
chlorocatechol	4.00	33489	1.19E-04	1.13E-04	3.8
	2.00	17711	1.13E-04		
	1.00	9090	1.10E-04		
	0.20	1846	1.08E-04		
-trichloroguaiacol	0.80	8903	8.99E-05	8.49E-05	6.4
	0.40	5094	7.85E-05		
	0.20	2483	8.05E-05		
	0.04	441	9.07E-05		

10 Calibration Data Curve 1 (Continued)

Compound	Conc (ug/mL)	Peak Area	DB-1		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
4-chlorovanillin	4.00	33439	1.20E-04	1.18E-04	1.6
	2.00	16806	1.19E-04		
	1.00	8360	1.20E-04		
	0.20	1737	1.15E-04		
4-syringaldehyde	4.00	12283	3.26E-04	3.54E-04	6.2
	2.00	5589	3.58E-04		
	1.00	2639	3.79E-04		
	0.20	523			
4-trichlorocatechol	2.00	23962	8.35E-05	8.37E-05	1.0
	1.00	11983	8.35E-05		
	0.50	5874	8.51E-05		
	0.10	1208	8.28E-05		
4-horosyringol	2.00	24468	8.17E-05	7.95E-05	1.8
	1.00	12845	7.79E-05		
	0.50	6301	7.94E-05		
	0.10	1262	7.92E-05		
4-chlorosyringaldehyde	10.00	45598	2.19E-04	2.12E-04	2.1
	5.00	24045	2.08E-04		
	2.50	11872	2.11E-04		
	0.50	2395	2.09E-04		
DB-608					
4-trichlorophenol	2.00	19710	1.01E-04	9.41E-05	5.4
	1.00	11170	8.95E-05		
	0.50	5211	9.60E-05		
	0.10	1120	8.93E-05		
4-propenol	2.00	13688	1.46E-04	1.43E-04	3.8
	1.00	7282	1.37E-04		
	0.50	3644	1.37E-04		
	0.10	668	1.50E-04		
4-chlorophenol	0.80	8258	9.69E-05	1.00E-04	10.9
	0.40	4392	9.11E-05		
	0.20	2135	9.37E-05		
	0.04	337	1.19E-04		
4-roguaiaacol	2.00	12659	1.58E-04	1.68E-04	16.4
	1.00	6804	1.47E-04		
	0.50	3317	1.51E-04		
	0.10	466	2.15E-04		
4-trichlorophenol	4.00	18614	2.15E-04	2.02E-04	6.5
	2.00	10631	1.88E-04		
	1.00	5250	1.90E-04		
	0.20	924	2.16E-04		

10 Calibration Data Curve 1 (Continued)

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Compound	Conc (ug/mL)	Peak Area	DB-608		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
-trichlorophenol	2.00	19383	1.03E-04	1.01E-04	8.9
	1.00	11110	9.00E-05		
	0.50	5250	9.52E-05		
	0.10	879	1.14E-04		
-chloroguaiacol	2.00	20597	9.71E-05	8.49E-05	9.0
	1.00	12721	7.86E-05		
	0.50	6400	7.81E-05		
	0.10	1166	8.58E-05		
,6-tetrachlorophenol	2.00	13748	1.45E-04	1.24E-04	14.3
	1.00	8136	1.23E-04		
	0.50	3803	1.31E-04		
	0.10	1034	9.67E-05		
-trichloroguaiacol	2.00	14167	1.41E-04	1.24E-04	9.0
	1.00	8299	1.20E-04		
	0.50	4001	1.25E-04		
	0.10	908	1.10E-04		
-chlorocatechol	4.00	22646	1.77E-04	1.70E-04	9.7
	2.00	13203	1.51E-04		
	1.00	6367	1.57E-04		
	0.20	1037	1.93E-04		
-trichloroguaiacol	0.80	7787	1.03E-04	1.02E-04	3.2
	0.40	4147	9.65E-05		
	0.20	1965	1.02E-04		
	0.04	380	1.05E-04		
-chlorophenol	0.40	7159	5.59E-05	5.86E-05	7.6
	0.20	3771	5.30E-05		
	0.10	1643	6.09E-05		
	0.02	310	6.45E-05		
-chloroguaiacol	0.80	10525	7.60E-05	7.31E-05	4.1
	0.40	5669	7.06E-05		
	0.20	2627	7.61E-05		
	0.04	574	6.97E-05		
-chlorocatechol	2.00	23243	8.60E-05	8.26E-05	11.3
	1.00	13841	7.22E-05		
	0.50	6578	7.60E-05		
	0.10	1040	9.62E-05		

10 Calibration Data Curve 2

Compound	Conc (ug/mL)	Peak Area	DB-1	Mean Calib Factor	%RSD of Calib Factors
			Calib Factor		
chlorophenol	2.00	35496	5.63E-05	6.02E-05	4.6
	1.00	16587	6.03E-05		
	0.50	7782	6.43E-05		
	0.10	1664	6.01E-05		
chlorophenol	2.00	32931	6.07E-05	6.97E-05	9.9
	1.00	14876	6.72E-05		
	0.50	7020	7.12E-05		
	0.10	1253	7.98E-05		
chlorophenol	2.00	29084	6.88E-05	7.89E-05	10.9
	1.00	13430	7.45E-05		
	0.50	6235	8.02E-05		
	0.10	1087	9.20E-05		
guaiacol	4.00	30493	1.31E-04	1.66E-04	15.6
	2.00	12783	1.56E-04		
	1.00	5805	1.72E-04		
	0.20	988	2.02E-04		
trichlorophenol	0.80	18471	4.33E-05	5.07E-05	9.5
	0.40	7584	5.27E-05		
	0.20	3969	5.04E-05		
	0.04	708	5.65E-05		
chloroguaiacol	2.00	27068	7.39E-05	7.95E-05	6.0
	1.00	12115	8.25E-05		
	0.50	5839	8.56E-05		
	0.10	1319	7.58E-05		
chlorocatechol	2.00	22386	8.93E-05	9.63E-05	5.5
	1.00	10273	9.73E-05		
	0.50	4893	1.02E-04		
	0.10	1030	9.71E-05		
vanillin	4.00	20439	1.96E-04	2.22E-04	7.5
	2.00	8867	2.26E-04		
	1.00	4137	2.42E-04		
	0.20	893	2.24E-04		
chlorocatechol	4.00	46946	8.52E-05	9.14E-05	4.5
	2.00	22146	9.03E-05		
	1.00	10677	9.37E-05		
	0.20	2077	9.63E-05		
trichloroguaiacol	0.80	14583	5.49E-05	6.67E-05	13.1
	0.40	6082	6.58E-05		
	0.20	2995	6.68E-05		
	0.04	503	7.95E-05		

10 Calibration Data Curve 2 (Continued)

Compound	Conc (ug/mL)	Peak Area	DB-1		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
4-chlorovanillin	4.00	44048	9.08E-05	9.38E-05	3.8
	2.00	22284	8.98E-05		
	1.00	10295	9.71E-05		
	0.20	2047	9.77E-05		
4-syringaldehyde	4.00	18235	2.19E-04	2.35E-04	8.5
	2.00	8997	2.22E-04		
	1.00	3798	2.63E-04		
	0.20	738			
4-trichlorocatechol	2.00	32780	6.10E-05	6.64E-05	6.2
	1.00	15631	6.40E-05		
	0.50	6982	7.16E-05		
	0.10	1453	6.88E-05		
4-hydroxy-4-syringol	2.00	33968	5.89E-05	6.12E-05	4.0
	1.00	16974	5.89E-05		
	0.50	8018	6.24E-05		
	0.10	1548	6.46E-05		
4-chlorosyringaldehyde	10.00	64486	1.55E-04	1.61E-04	5.4
	5.00	33205	1.51E-04		
	2.50	14535	1.72E-04		
	0.50	2997	1.67E-04		
4-trichlorophenol	DB-608				
	2.00	36871	5.42E-05	6.01E-05	7.0
	1.00	16622	6.02E-05		
	0.50	8376	5.97E-05		
	0.10	1512	6.61E-05		

10 Calibration Data Curve 3

Compound	Conc (ug/mL)	Peak Area	DB-1	Mean Calib Factor	%RSD of Calib Factors
			Calib Factor		
chlorophenol	2.00	36336	5.50E-05	5.38E-05	6.0
	1.00	17143	5.83E-05		
	0.50	9602	5.21E-05		
	0.10	2010	4.98E-05		
chlorophenol	2.00	33658	5.94E-05	5.83E-05	4.6
	1.00	16278	6.14E-05		
	0.50	8545	5.85E-05		
	0.10	1851	5.40E-05		
chlorophenol	2.00	31248	6.40E-05	6.36E-05	2.1
	1.00	15416	6.49E-05		
	0.50	7779	6.43E-05		
	0.10	1628	6.14E-05		
guaiacol	4.00	28482	1.40E-04	1.38E-04	6.9
	2.00	13796	1.45E-04		
	1.00	6884	1.45E-04		
	0.20	1640	1.22E-04		
trichlorophenol	0.80	19067	4.20E-05	4.10E-05	8.2
	0.40	8954	4.47E-05		
	0.20	4770	4.19E-05		
	0.04	1125	3.56E-05		
chloroguaiacol	2.00	29485	6.78E-05	6.80E-05	3.8
	1.00	13870	7.21E-05		
	0.50	7488	6.68E-05		
	0.10	1534	6.52E-05		
chlorocatechol	2.00	25328	7.90E-05	8.08E-05	2.1
	1.00	12042	8.30E-05		
	0.50	6208	8.05E-05		
	0.10	1301	7.69E-05		
ovanillin	4.00	22513	1.78E-04	1.82E-04	3.1
	2.00	10474	1.91E-04		
	1.00	5510	1.81E-04		
	0.20	1132	1.77E-04		
chlorocatechol	4.00	50271	7.96E-05	7.86E-05	3.2
	2.00	24277	8.24E-05		
	1.00	13139	7.61E-05		
	0.20	2616	7.65E-05		
trichloroguaiacol	0.80	15962	5.01E-05	5.07E-05	4.2
	0.40	7393	5.41E-05		
	0.20	3959	5.05E-05		
	0.04	829	4.83E-05		

10 Calibration Data Curve 3 (Continued)

Compound	Conc (ug/mL)	Peak Area	DB-1		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
4-chlorovanillin	4.00	51224	7.81E-05	7.72E-05	3.3
	2.00	24726	8.09E-05		
	1.00	13192	7.58E-05		
	0.20	2698	7.41E-05		
4-syringaldehyde	4.00	18660	2.14E-04	2.19E-04	4.4
	2.00	8587	2.33E-04		
	1.00	4748	2.11E-04		
	0.20	944			
4-trichlorocatechol	2.00	34558	5.79E-05	5.83E-05	4.1
	1.00	16108	6.21E-05		
	0.50	8647	5.78E-05		
	0.10	1801	5.55E-05		
4-hydroxy-4-syringol	2.00	37624	5.32E-05	5.13E-05	6.2
	1.00	18320	5.46E-05		
	0.50	9755	5.13E-05		
	0.10	2167	4.61E-05		
4-chlorosyringaldehyde	10.00	68510	1.46E-04	1.44E-04	5.0
	5.00	32484	1.54E-04		
	2.50	17633	1.42E-04		
	0.50	3727	1.34E-04		
DB-608					
4-trichlorophenol	2.00	23249	8.60E-05	8.04E-05	5.9
	1.00	11866	8.43E-05		
	0.50	6598	7.58E-05		
	0.10	1322	7.56E-05		
4-propenophenol	2.00	17999	1.11E-04	1.08E-04	2.7
	1.00	9026	1.11E-04		
	0.50	4797	1.04E-04		
	0.10	940	1.06E-04		
4-chlorophenol	0.80	10722	7.46E-05	7.16E-05	3.6
	0.40	5471	7.31E-05		
	0.20	2823	7.08E-05		
	0.04	590	6.78E-05		
4-guaiacol	2.00	16907	1.18E-04	1.10E-04	5.4
	1.00	8851	1.13E-04		
	0.50	4634	1.08E-04		
	0.10	977	1.02E-04		
4-trichlorophenol	4.00	25442	1.57E-04	1.47E-04	5.6
	2.00	13257	1.51E-04		
	1.00	6961	1.44E-04		
	0.20	1481	1.35E-04		

10 Calibration Data Curve 3 (Continued)

Compound	Conc (ug/mL)	Peak Area	DB-608		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
-trichlorophenol	2.00	26665	7.50E-05	7.17E-05	4.1
	1.00	13588	7.36E-05		
	0.50	7421	6.74E-05		
	0.10	1411	7.09E-05		
-chloroguaiacol	2.00	31544	6.34E-05	6.02E-05	4.7
	1.00	15972	6.26E-05		
	0.50	8791	5.69E-05		
	0.10	1727	5.79E-05		
,6-tetrachlorophenol	2.00	20231	9.89E-05	9.41E-05	4.6
	1.00	10232	9.77E-05		
	0.50	5637	8.87E-05		
	0.10	1098	9.11E-05		
-trichloroguaiacol	2.00	20768	9.63E-05	9.34E-05	5.3
	1.00	10704	9.34E-05		
	0.50	5857	8.54E-05		
	0.10	1017	9.83E-05		
-chlorocatechol	4.00	32891	1.22E-04	1.23E-04	3.7
	2.00	16349	1.22E-04		
	1.00	8526	1.17E-04		
	0.20	1540	1.30E-04		
-trichloroguaiacol	0.80	10466	7.64E-05	7.78E-05	3.9
	0.40	5128	7.80E-05		
	0.20	2699	7.41E-05		
	0.04	485	8.25E-05		
-chlorophenol	0.40	9392	4.26E-05	4.48E-05	5.2
	0.20	4525	4.42E-05		
	0.10	2290	4.37E-05		
	0.02	411	4.87E-05		
-chloroguaiacol	0.80	14609	5.48E-05	5.76E-05	10.0
	0.40	7181	5.57E-05		
	0.20	3811	5.25E-05		
	0.04	594	6.73E-05		
-chlorocatechol	2.00	30155	6.63E-05	6.76E-05	4.4
	1.00	15017	6.66E-05		
	0.50	7708	6.49E-05		
	0.10	1378	7.26E-05		

This supplement contains matrix spike/matrix spike duplicate results and raw data not contained in the report submitted June 15, 1990. All tables associated with this data have been updated and are contained in this package.

Revised result tables, sample data sheets, and calibration factor tables are also contained in this report. Due to a miscalculation in the calibration factor tables, the result summary tables and sample quantitation reports are outdated and should be disregarded and replaced with those enclosed.

Results Obtained for Chlorinated Phenolics. Concentrations in ug/L.

	EPA Sample Numbers										?
Blank	19355	19356	19357	19358	19359	19360	19361	19362	Blank		
lorophenol	< 0.3	< 0.3	6	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
lorophenol	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
lorophenol	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
guaiacol	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
ichlorophenol	< 0.1	< 0.1	< 1	< 1	< 0.1	< 0.1	0.1	0.1	0.1	< 0.1	
loroguaiacol	< 0.3	3.0	< 3	61	< 0.3	< 0.3	2.9	2.9	1.2	< 0.3	
lorocatechol	< 0.5	< 0.5	53	< 5	< 0.5	< 0.5	< 0.5	4.5	1.8	< 0.5	
vanillin	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	1.4	< 0.5	1.8	< 0.5	
lorocatechol	< 2.5	< 2.5	< 25	< 25	< 2.5	< 2.5	< 2.5	1.4	1.1	< 2.5	
ichloroguaiacol	< 0.1	0.1	< 1	5	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
lorovanillin	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
ringaldehyde	< 0.5	1.0	< 5	< 5	< 0.5	< 0.5	< 0.5	0.8	< 0.5	< 0.5	
ichlorocatechol	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
osyringol	< 0.3	< 0.3	< 3	36	< 0.3	< 0.3	1.3	1.1	0.4	< 0.3	
lorosyringaldehyde	< 1.3	< 1.3	< 13	29	< 1.3	< 1.3	2.1	1.4	1.1	< 1.3	
phenol	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
lorophenol	< 0.1	< 0.1	< 1	< 1	< 0.1	< 0.1	< 0.1	< 0.1	0.1	< 0.1	
ichlorophenol	< 0.3	< 0.3	< 3	14	< 0.3	< 0.3	0.7	1.1	< 0.3	< 0.3	
guaiacol	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
ichlorophenol	< 0.3	0.5	24	18	< 0.3	< 0.3	2.2	2.7	1.1	< 0.3	
loroguaiacol	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	
Tetrachlorophenol	< 0.3	< 0.3	< 3	11	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	
ichloroguaiacol	< 0.5	< 0.5	< 5	10	< 0.5	< 0.5	< 0.5	< 0.5	1.5	< 0.5	
lorocatechol	< 1.0	< 1.0	46	< 10	< 1.0	< 1.0	< 1.0	6.0	2.5	< 1.0	
ichloroguaiacol	< 0.3	1.1	< 3	125	< 0.3	< 0.3	6.0	4.6	1.1	< 0.3	
prophenol	< 0.1	< 0.1	< 1	< 1	< 0.1	< 0.1	< 0.1	1.6	< 0.1	< 0.1	
proguaiacol	< 0.1	< 0.1	< 1	3	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	
procatechol	< 0.3	< 0.3	57	< 3	< 0.3	< 0.3	< 0.3	< 0.3	0.3	< 0.3	

Results Obtained for Chlorinated Phenolics. Concentrations in ug/L. (Continued)

	EPA Sample Numbers									
	19364	19365	19366	19367	19368	19369	19370	19371	19372	19373
chlorophenol	0.4	< 0.3	13	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3
chlorophenol	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3
chlorophenol	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	< 0.3
guaiacol	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	< 0.5
bichlorophenol	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.2	0.3	< 0.1	< 0.1
chloroguaiacol	10.9	5.8	< 3	< 0.3	< 0.3	< 0.3	< 0.5	4.4	1.4	1.9
chlorocatechol	< 0.5	< 0.5	67	< 0.5	< 0.5	< 0.5	< 1.0	5.2	1.4	1.9
vanillin	0.5	< 0.5	15	< 0.5	< 0.5	< 0.5	4.9	1.8	3.0	3.0
chlorocatechol	< 2.5	< 2.5	< 25	< 2.5	< 2.5	< 2.5	< 5.0	< 5.0	< 2.5	< 2.5
bichloroguaiacol	0.5	0.1	2	< 0.1	< 0.1	< 0.1	< 0.2	0.7	< 0.1	< 0.1
chlorovanillin	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	< 0.5
syringaldehyde	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	< 0.5
bichlorocatechol	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	7.2	< 0.5	< 0.3	< 0.3
rosyrosinol	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	4.1	< 0.5	0.6	0.9
chlorosyringaldehyd	< 1.3	< 1.3	12	< 1.3	< 1.3	< 1.3	4.0	2.8	1.3	2.2
phenol	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	0.5	< 0.5	< 0.3	< 0.3
chlorophenol	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	< 0.2	0.7	0.2	0.2
bichlorophenol	0.6	0.3	< 3	< 0.3	< 0.3	< 0.3	1.0	1.6	0.3	0.3
guaiacol	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	< 0.5
bichlorophenol	0.6	0.4	26	< 0.3	< 0.3	< 0.3	3.8	4.9	1.4	1.6
chloroguaiacol	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5	< 0.5
Tetrachlorophenol	< 0.3	< 0.3	< 3	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	1.1	0.9
bichloroguaiacol	< 0.5	< 0.5	< 5	< 0.5	< 0.5	< 0.5	< 1.0	1.3	0.8	0.5
chlorocatechol	< 1.0	< 1.0	61	< 1.0	< 1.0	< 1.0	< 2.0	8.4	< 1.0	< 1.0
bichloroguaiacol	1.3	0.8	< 3	< 0.3	< 0.3	< 0.3	9.7	8.9	< 0.3	< 0.3
borophenol	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	5.2	2.4	< 0.1	< 0.1
boroguaiacol	< 0.1	< 0.1	< 1	< 0.1	< 0.1	< 0.1	3.5	< 0.2	< 0.1	< 0.1
borocatechol	< 0.3	< 0.3	20	< 0.3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3	0.5

Results Obtained for Chlorinated Phenolics. Concentrations in ug/L. (Continued)

	EPA Sample Numbers									
Blank	19375	19376	19377	19378	19379	19380	19381	19382	19383	
chlorophenol	< 0.3	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
chlorophenol	< 0.3	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
chlorophenol	< 0.3	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
guaiacol	< 0.5	< 0.5	1.4	9	< 5	< 0.5	< 0.5	2.0	< 1.0	< 0.5
chlorophenol	< 0.1	< 0.1	< 0.1	< 1	< 1	< 0.1	< 0.1	< 0.2	0.9	< 0.1
oroguaiacol	< 0.3	< 0.3	< 0.3	< 3	64	< 0.3	< 0.3	< 0.5	7.9	6.8
orocatechol	< 0.5	< 0.5	0.8	98	< 5	< 0.5	< 0.5	3.8	11.3	7.1
anillin	< 0.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	2.3	1.8	7.1
orocatechol	< 2.5	< 2.5	0.9	< 25	< 25	< 2.5	< 2.5	2.3	3.2	< 2.5
chloroguaiacol	< 0.1	< 0.1	0.8	< 1	11	< 0.1	< 0.1	< 0.2	1.8	< 0.1
orovanillin	< 0.5	< 0.5	1.7	< 5	< 5	< 0.5	< 0.5	7.6	< 1.0	< 0.5
ingaldehyde	< 0.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 1.0	< 1.0	5.8
chlorocatechol	< 0.3	< 0.3	0.6	< 3	< 3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3
syringol	< 0.3	< 0.3	< 0.3	< 3	39	< 0.3	< 0.3	< 0.5	3.9	2.7
rosyrosyngaldehyd	< 1.3	< 1.3	< 1.3	< 13	14	< 1.3	< 1.3	< 2.5	4.3	5.9
henol	< 0.3	< 0.3	< 0.3	3	< 3	< 0.3	< 0.3	< 0.5	1.0	< 0.3
orophenol	< 0.1	< 0.1	< 0.1	< 1	5	< 0.1	< 0.1	< 0.2	1.1	0.9
chlorophenol	< 0.3	< 0.3	< 0.3	< 3	14	< 0.3	< 0.3	0.5	2.4	0.9
guaiacol	< 0.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
chlorophenol	< 0.3	< 0.3	1.4	41	29	< 0.3	< 0.3	3.9	6.6	4.3
oroguaiacol	< 0.5	< 0.5	< 0.5	< 5	< 5	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
tetrachlorophenol	< 0.3	< 0.3	< 0.3	< 3	< 3	< 0.3	< 0.3	< 0.5	< 0.5	2.6
chloroguaiacol	< 0.5	< 0.5	< 0.5	< 5	13	< 0.5	< 0.5	< 1.0	< 1.0	< 0.5
orocatechol	< 1.0	< 1.0	< 1.0	77	< 10	< 1.0	< 1.0	< 2.0	12.6	10.5
chloroguaiacol	< 0.3	< 0.3	< 0.3	< 3	125	< 0.3	< 0.3	< 0.5	13.0	< 0.3
rophenol	< 0.1	< 0.1	0.4	< 1	< 1	< 0.1	< 0.1	< 0.2	< 0.2	3.2
roguaiacol	< 0.1	< 0.1	0.9	< 1	< 1	< 0.1	< 0.1	< 0.2	< 0.2	< 0.1
rocatechol	< 0.3	< 0.3	< 0.3	26	< 3	< 0.3	< 0.3	< 0.5	< 0.5	< 0.3

EPA No. Blank	ATI No. 90-05-031-00				Sample Volume (Vs) = 100 mL			Extract Volume (Ve) = 5 mL		
	Quant. Compound	Peak Column	Calib Area (A)	Conc. in Extract (CF) (1)	Conc/Dil Factor (X) (3)	Sample Conc. (Cs) (ug/L) (4)	-----DB-1 column-----	-----DB-608 column-----	Observed	Observed
		Column	Factor (CF) (1)	(ug/mL) (2)	Factor (X) (3)	(ug/L) (4)	Ret. Time	Window	Ret. Time	Window
2,6-Dichlorophenol	DB-1	7.62E-05	< 0.05	0.1	< 0.3	5.34	to 5.68	5.26	to 5.61	
3,5-Dichlorophenol	DB-1	8.63E-05	< 0.05	0.1	< 0.3	6.10	to 6.49	4.84	to 5.23	
3,4-Dichlorophenol	DB-1	8.97E-05	< 0.05	0.1	< 0.3	7.02	to 7.45	6.30	to 6.73	
5-Chloroguaiacol	DB-1	2.08E-04	< 0.10	0.1	< 0.5	7.41	to 7.86	8.03	to 8.48	
2,3,6-Trichlorophenol	DB-1	6.40E-05	< 0.02	0.1	< 0.1	9.15	to 9.66	9.02	to 9.53	
4,6-Dichloroguaiacol	DB-1	1.05E-04	< 0.05	0.1	< 0.3	10.86	to 11.44	11.54	to 12.13	
3,5-Dichlorocatechol	DB-1	1.20E-04	< 0.10	0.1	< 0.5	13.45	to 14.14	13.79	to 14.48	
6-Chlorovanillin	DB-1	2.80E-04	< 0.10	0.1	< 0.5	14.12	to 14.79	16.49	to 17.16	
3,4-Dichlorocatechol	DB-1	1.13E-04	< 0.50	0.1	< 2.5	14.89	to 15.59	16.47	to 17.18	
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	< 0.02	0.1	< 0.1	16.89	to 17.62	16.46	to 17.19	
5,6-Dichlorovanillin	DB-1	1.18E-04	< 0.10	0.1	< 0.5	19.41	to 20.17	21.60	to 22.36	
Chlorosyringaldehyde	DB-1	3.54E-04	< 0.10	0.1	< 0.5	19.93	to 20.71	23.22	to 24.00	
3,4,5-Trichlorocatechol	DB-1	8.37E-05	< 0.05	0.1	< 0.3	21.00	to 21.76	22.43	to 23.19	
Trichlorosyringol	DB-1	7.95E-05	< 0.05	0.1	< 0.3	22.71	to 23.49	23.22	to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	2.12E-04	< 0.25	0.1	< 1.3	26.22	to 27.05	28.16	to 28.99	
4-Chlorophenol	DB-608	1.43E-04	< 0.05	0.1	< 0.3	3.88	to 4.06	3.41	to 3.59	
2,4-Dichlorophenol	DB-608	1.00E-04	< 0.02	0.1	< 0.1	5.80	to 6.07	5.22	to 5.49	
2,4,6-Trichlorophenol	DB-608	1.01E-04	< 0.05	0.1	< 0.3	8.10	to 8.43	7.18	to 7.52	
4-Chloroguaiacol	DB-608	3.35E-04	< 0.10	0.1	< 0.5	7.25	to 7.57	8.09	to 8.41	
2,4,5-Trichlorophenol	DB-608	1.01E-04	< 0.05	0.1	< 0.3	9.74	to 10.11	8.70	to 9.07	
4,5-Dichloroguaiacol	DB-608	8.49E-05	< 0.10	0.1	< 0.5	12.51	to 12.95	13.09	to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	< 0.05	0.1	< 0.3	13.99	to 14.45	13.50	to 13.96	
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	< 0.10	0.1	< 0.5	14.56	to 15.04	14.13	to 14.61	
4,5-Dichlorocatechol	DB-608	1.70E-04	< 0.20	0.1	< 1.0	16.02	to 16.50	16.33	to 16.82	
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	< 0.05	0.1	< 0.3	18.08	to 18.60	19.74	to 20.26	
Pentachlorophenol	DB-608	5.86E-05	< 0.02	0.1	< 0.1	21.16	to 21.72	19.97	to 20.53	
Tetrachloroguaiacol	DB-608	7.31E-05	< 0.02	0.1	< 0.1	22.21	to 22.75	21.82	to 22.36	
Tetrachlorocatechol	DB-608	8.26E-05	< 0.05	0.1	< 0.3	26.08	to 26.65	26.73	to 27.30	
3,4,5-Trichlorophenol	DB-608	43885	9.41E-05	4.13	0.1	21	11.88 11.59 to 12.04	10.56 10.30 to 10.75		

(1) Calibration factors from average of 4-point calibration. CF = Conc (ug/mL)/peak area

(2) Ce = CF * A

EPA No. 19355	ATI No. 90-05-031-01		Sample Volume (Vs) = 100 mL				Extract Volume (Ve) = 5 mL					
COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)	-----DB-1 column-----	Observed Ret. Time	Window	-----DB-608 column-----	Observed Ret. Time	Window
2,6-Dichlorophenol	DB-1	7.62E-05	< 0.05	0.1	< 0.3	5.34	to	5.68		5.26	to	5.61
3,5-Dichlorophenol	DB-1	8.63E-05	< 0.05	0.1	< 0.3	6.10	to	6.49		4.84	to	5.23
3,4-Dichlorophenol	DB-1	8.97E-05	< 0.05	0.1	< 0.3	7.02	to	7.45		6.30	to	6.73
5-Chloroguaiacol	DB-1	2.08E-04	< 0.10	0.1	< 0.5	7.41	to	7.86		8.03	to	8.48
2,3,6-Trichlorophenol	DB-1	6.40E-05	< 0.02	0.1	< 0.1	9.15	to	9.66		9.02	to	9.53
4,6-Dichloroguaiacol	DB-1	5676	1.05E-04	0.60	0.1	3.0	10.93	10.86	to 11.44	11.86	11.54	to 12.13
3,5-Dichlorocatechol	DB-1		1.20E-04	< 0.10	0.1	< 0.5	13.45	to	14.14		13.79	to 14.48
6-Chlorovanillin	DB-1	76	2.80E-04	< 0.10	0.1	< 0.5	14.46	14.12	to 14.79	16.72	16.49	to 17.16
3,4-Dichlorocatechol	DB-1		1.13E-04	< 0.50	0.1	< 2.5	14.89	to	15.59		16.47	to 17.18
3,4,5-Trichloroguaiacol	DB-1	282	8.49E-05	0.02	0.1	0.1	17.27	16.89	to 17.62	16.72	16.46	to 17.19
5,6-Dichlorovanillin	DB-1		1.18E-04	< 0.10	0.1	< 0.5	19.41	to	20.17		21.60	to 22.36
Chlorosyringaldehyde	DB-1	560	3.54E-04	0.20	0.1	1.0	20.32	19.93	to 20.71	23.82	23.22	to 24.00
3,4,5-Trichlorocatechol	DB-1		8.37E-05	< 0.05	0.1	< 0.3	21.00	to	21.76		22.43	to 23.19
Trichlorosyringol	DB-1	472	7.95E-05	< 0.05	0.1	< 0.3	23.12	22.71	to 23.49	23.82	23.22	to 24.01
2,6-Dichlorosyringaldehyde	DB-1		2.12E-04	< 0.25	0.1	< 1.3	26.22	to	27.05		28.16	to 28.99
4-Chlorophenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3	3.88	to	4.06		3.41	to 3.59
2,4-Dichlorophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1	5.80	to	6.07		5.22	to 5.49
2,4,6-Trichlorophenol	DB-608		1.01E-04	< 0.05	0.1	< 0.3	8.10	to	8.43		7.18	to 7.52
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.1	< 0.5	7.25	to	7.57		8.09	to 8.41
2,4,5-Trichlorophenol	DB-608	958	1.01E-04	0.10	0.1	0.5	9.94	9.74	to 10.11	8.85	8.70	to 9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5	12.51	to	12.95		13.09	to 13.53
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3	13.99	to	14.45		13.50	to 13.96
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5	14.56	to	15.04		14.13	to 14.61
4,5-Dichlorocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0	16.02	to	16.50		16.33	to 16.82
4,5,6-Trichloroguaiacol	DB-608	2159	1.02E-04	0.22	0.1	1.1	18.37	18.08	to 18.60	20.04	19.74	to 20.26
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1	21.16	to	21.72		19.97	to 20.53
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1	22.21	to	22.75		21.82	to 22.36
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3	26.08	to	26.65		26.73	to 27.30
3,4,5-Trichlorophenol	DB-608	29352	9.41E-05	2.76	0.1	14	11.82	11.59	to 12.04	10.56	10.30	to 10.75

EPA No. 19356

ATI No. 90-05-031-02

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak (A)	Calib (CF)	Conc. in Extract (ug/mL)	Conc/Dil (X)	Sample Conc. (ug/L)	-----DB-1 column----			-----DB-608 column----		
		Area (1)	Factor (1)	(2)	(3)	(4)	Ret. Time	Window	Ret. Time	Window	Ret. Time	Window
2,6-Dichlorophenol	DB-1	1489	7.62E-05	0.11	1.0	6	5.53	5.34 to 5.68	5.53	5.26 to 5.61		
3,5-Dichlorophenol	DB-1		8.63E-05	< 0.05	1.0	< 3	6.10	to 6.49		4.84 to 5.23		
3,4-Dichlorophenol	DB-1		8.97E-05	< 0.05	1.0	< 3	7.02	to 7.45		6.30 to 6.73		
5-Chloroguaiaacol	DB-1		2.08E-04	< 0.10	1.0	< 5	7.41	to 7.86		8.03 to 8.48		
2,3,6-Trichlorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1	9.15	to 9.66		9.02 to 9.53		
4,6-Dichloroguaiaacol	DB-1		1.05E-04	< 0.05	1.0	< 3	10.86	to 11.44		11.54 to 12.13		
3,5-Dichlorocatechol	DB-1	8915	1.20E-04	1.07	1.0	53	13.74	13.45 to 14.14	14.14	13.79 to 14.48		
6-Chlorovanillin	DB-1		2.80E-04	< 0.10	1.0	< 5	14.12	to 14.79		16.49 to 17.16		
3,4-Dichlorocatechol	DB-1		1.13E-04	< 0.50	1.0	< 25	14.89	to 15.59		16.47 to 17.18		
3,4,5-Trichloroguaiaacol	DB-1		8.49E-05	< 0.02	1.0	< 1	16.89	to 17.62		16.46 to 17.19		
5,6-Dichlorovanillin	DB-1		1.18E-04	< 0.10	1.0	< 5	19.41	to 20.17		21.60 to 22.36		
Chlorosyringaldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5	19.93	to 20.71		23.22 to 24.00		
3,4,5-Trichlorocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3	21.00	to 21.76		22.43 to 23.19		
Trichlorosyringol	DB-1		7.95E-05	< 0.05	1.0	< 3	22.71	to 23.49		23.22 to 24.01		
2,6-Dichlorosyringaldehyde	DB-1		2.12E-04	< 0.25	1.0	< 13	26.22	to 27.05		28.16 to 28.99		
4-Chlorophenol	DB-608	290	1.43E-04	< 0.05	1.0	< 3	3.89	3.88 to 4.06	3.50	3.41 to 3.59		
2,4-Dichlorophenol	DB-608		1.00E-04	< 0.02	1.0	< 1	5.80	to 6.07		5.22 to 5.49		
2,4,6-Trichlorophenol	DB-608		1.01E-04	< 0.05	1.0	< 3	8.10	to 8.43		7.18 to 7.52		
4-Chloroguaiaacol	DB-608		3.35E-04	< 0.10	1.0	< 5	7.25	to 7.57		8.09 to 8.41		
2,4,5-Trichlorophenol	DB-608	4806	1.01E-04	< 0.49	1.0	24	9.90	9.74 to 10.11	8.83	8.70 to 9.07		
4,5-Dichloroguaiaacol	DB-608		8.49E-05	< 0.10	1.0	< 5	12.51	to 12.95		13.09 to 13.53		
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	1.0	< 3	13.99	to 14.45		13.50 to 13.96		
3,4,6-Trichloroguaiaacol	DB-608		1.24E-04	< 0.10	1.0	< 5	14.56	to 15.04		14.13 to 14.61		
4,5-Dichlorocatechol	DB-608	5415	1.70E-04	0.92	1.0	46	16.23	16.02 to 16.50	16.58	16.33 to 16.82		
4,5,6-Trichloroguaiaacol	DB-608		1.02E-04	< 0.05	1.0	< 3	18.08	to 18.60		19.74 to 20.26		
Pentachlorophenol	DB-608		5.86E-05	< 0.02	1.0	< 1	21.16	to 21.72		19.97 to 20.53		
Tetrachloroguaiaacol	DB-608		7.31E-05	< 0.02	1.0	< 1	22.21	to 22.75		21.82 to 22.36		
Tetrachlorocatechol	DB-608	13917	8.26E-05	1.15	1.0	57	26.20	26.08 to 26.65	27.04	26.73 to 27.30		
3,4,5-Trichlorophenol	DB-608	4729	9.41E-05	0.44	1.0	22	11.77	11.59 to 12.04	10.53	10.30 to 10.75		

EPA No. 19366

ATI No. 90-05-033-03

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak (A)	Calib (CF)	Conc. in Extract (ug/mL)	Conc/Dil Factor	Sample Conc. (ug/L)	-----DB-1 column----			-----DB-608 column----		
		Area (1)		(2)	(X) (3)	Observed Ret. Time Window						
2,6-Dichlorophenol	DB-1	3519	7.62E-05	0.27	1.0	13	5.55	5.34	to 5.68	5.53	5.26	to 5.61
3,5-Dichlorophenol	DB-1		8.63E-05	< 0.05	1.0	< 3		6.10	to 6.49		4.84	to 5.23
3,4-Dichlorophenol	DB-1		8.97E-05	< 0.05	1.0	< 3		7.02	to 7.45		6.30	to 6.73
5-Chloroguaiacol	DB-1		2.08E-04	< 0.10	1.0	< 5		7.41	to 7.86		8.03	to 8.48
2,3,6-Trichlorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1		9.15	to 9.66		9.02	to 9.53
4,6-Dichloroguaiacol	DB-1		1.05E-04	< 0.05	1.0	< 3		10.86	to 11.44		11.54	to 12.13
3,5-Dichlorocatechol	DB-1	11231	1.20E-04	1.35	1.0	67	13.76	13.45	to 14.14	14.14	13.79	to 14.48
6-Chlorovanillin	DB-1	1100	2.80E-04	0.31	1.0	15	14.43	14.12	to 14.79	16.84	16.49	to 17.16
3,4-Dichlorocatechol	DB-1		1.13E-04	< 0.50	1.0	< 25		14.89	to 15.59		16.47	to 17.18
3,4,5-Trichloroguaiacol	DB-1	565	8.49E-05	0.05	1.0	2	17.25	16.89	to 17.62	16.84	16.46	to 17.19
5,6-Dichlorovanillin	DB-1		1.18E-04	< 0.10	1.0	< 5		19.41	to 20.17		21.60	to 22.36
Chlorosyringaldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5		19.93	to 20.71		23.22	to 24.00
3,4,5-Trichlorocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3		21.00	to 21.76		22.43	to 23.19
Trichlorosyringol	DB-1		7.95E-05	< 0.05	1.0	< 3		22.71	to 23.49		23.22	to 24.01
2,6-Dichlorosyringaldehyde	DB-1	1118	2.12E-04	0.24	1.0	12	26.77	26.22	to 27.05	28.57	28.16	to 28.99
4-Chlorophenol	DB-608		1.43E-04	< 0.05	1.0	< 3		3.88	to 4.06		3.41	to 3.59
2,4-Dichlorophenol	DB-608		1.00E-04	< 0.02	1.0	< 1		5.80	to 6.07		5.22	to 5.49
2,4,6-Trichlorophenol	DB-608		1.01E-04	< 0.05	1.0	< 3		8.10	to 8.43		7.18	to 7.52
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	1.0	< 5		7.25	to 7.57		8.09	to 8.41
2,4,5-Trichlorophenol	DB-608	5111	1.01E-04	0.52	1.0	26	9.91	9.74	to 10.11	8.83	8.70	to 9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	1.0	< 5		12.51	to 12.95		13.09	to 13.53
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	1.0	< 3		13.99	to 14.45		13.50	to 13.96
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	< 0.10	1.0	< 5		14.56	to 15.04		14.13	to 14.61
4,5-Dichlorocatechol	DB-608	7181	1.70E-04	1.22	1.0	61	16.25	16.02	to 16.50	16.59	16.33	to 16.82
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	< 0.05	1.0	< 3		18.08	to 18.60		19.74	to 20.26
Pentachlorophenol	DB-608		5.86E-05	< 0.02	1.0	< 1		21.16	to 21.72		19.97	to 20.53
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	1.0	< 1		22.21	to 22.75		21.82	to 22.36
Tetrachlorocatechol	DB-608	4813	8.26E-05	0.40	1.0	20	26.22	26.08	to 26.65	27.04	26.73	to 27.30
3,4,5-Trichlorophenol	DB-608	6024	9.41E-05	0.57	1.0	28	11.78	11.59	to 12.04	10.53	10.30	to 10.75

EPA No. 19358

ATI No. 90-05-031-04

Sample Volume (V_s) = 100 mL

Extract Volume (Ve) =

5 m

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	DB-1 column			DB-608 column					
	Quant. Column	Area (A)	Factor (CF)	(1)	Ce (ug/mL) (2)	Factor (X)	(3)	Conc. Cs (ug/L) (4)	Observed Ret. Time	Window	Observed Ret. Time	Window			
2,6-Dichlorophenol	DB-1	7.62E-05	<	0.05	0.1	<	0.3	5.34	to	5.68	5.26	to	5.61		
3,5-Dichlorophenol	DB-1	8.63E-05	<	0.05	0.1	<	0.3	6.10	to	6.49	4.84	to	5.23		
3,4-Dichlorophenol	DB-1	8.97E-05	<	0.05	0.1	<	0.3	7.02	to	7.45	6.30	to	6.73		
5-Chloroguaiacol	DB-1	2.08E-04	<	0.10	0.1	<	0.5	7.41	to	7.86	8.03	to	8.48		
2,3,6-Trichlorophenol	DB-1	6.40E-05	<	0.02	0.1	<	0.1	9.15	to	9.66	9.02	to	9.53		
4,6-Dichloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	<	0.3	10.86	to	11.44	11.54	to	12.13		
3,5-Dichlorocatechol	DB-1	1.20E-04	<	0.10	0.1	<	0.5	13.45	to	14.14	13.79	to	14.48		
6-Chlorovanillin	DB-1	2.80E-04	<	0.10	0.1	<	0.5	14.12	to	14.79	16.49	to	17.16		
3,4-Dichlorocatechol	DB-1	1.13E-04	<	0.50	0.1	<	2.5	14.89	to	15.59	16.47	to	17.18		
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	<	0.1	16.89	to	17.62	16.46	to	17.19		
5,6-Dichlorovanillin	DB-1	1.18E-04	<	0.10	0.1	<	0.5	19.41	to	20.17	21.60	to	22.36		
Chlorosyringaldehyde	DB-1	3.54E-04	<	0.10	0.1	<	0.5	19.93	to	20.71	23.22	to	24.00		
3,4,5-Trichlorocatechol	DB-1	8.37E-05	<	0.05	0.1	<	0.3	21.00	to	21.76	22.43	to	23.19		
Trichlorosyringol	DB-1	7.95E-05	<	0.05	0.1	<	0.3	22.71	to	23.49	23.22	to	24.01		
2,6-Dichlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	<	1.3	26.22	to	27.05	28.16	to	28.99		
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3	3.88	to	4.06	3.41	to	3.59		
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1	5.80	to	6.07	5.22	to	5.49		
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	8.10	to	8.43	7.18	to	7.52		
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5	7.25	to	7.57	8.09	to	8.41		
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	9.74	to	10.11	8.70	to	9.07		
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5	12.51	to	12.95	13.09	to	13.53		
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3	13.99	to	14.45	13.50	to	13.96		
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5	14.56	to	15.04	14.13	to	14.61		
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0	16.02	to	16.50	16.33	to	16.82		
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3	18.08	to	18.60	19.74	to	20.26		
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1	21.16	to	21.72	19.97	to	20.53		
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1	22.21	to	22.75	21.82	to	22.36		
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3	26.08	to	26.65	26.73	to	27.30		
3,4,5-Trichlorophenol	DB-608	33139	9.41E-05		3.12	0.1	16	11.85	11.59	to	12.04	10.59	10.30	to	10.75

EPA No. 19359

ATI No. 90-05-031-05

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Column	Peak	Calib	Conc. in	Conc/Dil	Sample	DB-1 column		DB-608 column					
		Quant.	Area	Factor	Extract	Factor	Conc.	Observed		Observed				
(A)	(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time	Window	Ret. Time	Window		
2,6-Dichlorophenol	DB-1	7.62E-05	<	0.05	0.1	<	0.3		5.34	to	5.68			
3,5-Dichlorophenol	DB-1	8.63E-05	<	0.05	0.1	<	0.3		6.10	to	6.49			
3,4-Dichlorophenol	DB-1	8.97E-05	<	0.05	0.1	<	0.3		7.02	to	7.45			
5-Chloroguaiacol	DB-1	2.08E-04	<	0.10	0.1	<	0.5		7.41	to	7.86			
2,3,6-Trichlorophenol	DB-1	6.40E-05	<	0.02	0.1	<	0.1		9.15	to	9.66			
4,6-Dichloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	<	0.3		10.86	to	11.44			
3,5-Dichlorocatechol	DB-1	1.20E-04	<	0.10	0.1	<	0.5		13.45	to	14.14			
6-Chlorovanillin	DB-1	2.80E-04	<	0.10	0.1	<	0.5		14.12	to	14.79			
3,4-Dichlorocatechol	DB-1	1.13E-04	<	0.50	0.1	<	2.5		14.89	to	15.59			
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	<	0.1		16.89	to	17.62			
5,6-Dichlorovanillin	DB-1	1.18E-04	<	0.10	0.1	<	0.5		19.41	to	20.17			
Chlorosyringaldehyde	DB-1	3.54E-04	<	0.10	0.1	<	0.5		19.93	to	20.71			
3,4,5-Trichlorocatechol	DB-1	8.37E-05	<	0.05	0.1	<	0.3		21.00	to	21.76			
Trichlorosyringol	DB-1	7.95E-05	<	0.05	0.1	<	0.3		22.71	to	23.49			
2,6-Dichlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	<	1.3		26.22	to	27.05			
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3		3.88	to	4.06			
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1		5.80	to	6.07			
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		8.10	to	8.43			
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5		7.25	to	7.57			
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		9.74	to	10.11			
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5		12.51	to	12.95			
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3		13.99	to	14.45			
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5		14.56	to	15.04			
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0		16.02	to	16.50			
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3		18.08	to	18.60			
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1		21.16	to	21.72			
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1		22.21	to	22.75			
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3		26.08	to	26.65			
3,4,5-Trichlorophenol	DB-608	33507	9.41E-05	3.15	0.1	16	11.83	11.59	to	12.04	10.56	10.30	to	10.75

EPA No. T9360	ATI No. 90-05-031-06	Sample Volume (Vs) = 100 mL				Extract Volume (Ve) = 5 mL			
COMPOUND	Quant. Column	Peak Area (A)	Calib Factor (CF) (1)	Conc. in Extract Ce (ug/mL) (2)	Conc/Dil Factor (X) (3)	Sample Conc. Cs (ug/L) (4)	-----DB-1 column-----	-----DB-608 column-----	
						Observed	Observed	Observed	
2,6-Dichlorophenol	DB-1	7.62E-05	< 0.05	0.1	< 0.3	5.34	to 5.68	5.26 to 5.61	
3,5-Dichlorophenol	DB-1	8.63E-05	< 0.05	0.1	< 0.3	6.10	to 6.49	4.84 to 5.23	
3,4-Dichlorophenol	DB-1	8.97E-05	< 0.05	0.1	< 0.3	7.02	to 7.45	6.30 to 6.73	
5-Chloroguaiacol	DB-1	2.08E-04	< 0.10	0.1	< 0.5	7.41	to 7.86	8.03 to 8.48	
2,3,6-Trichlorophenol	DB-1	325	6.40E-05	0.02	0.1	0.1	9.50 9.15 to 9.66	9.50 9.02 to 9.53	
4,6-Dichloroguaiacol	DB-1	5435	1.05E-04	0.57	0.1	2.9	10.97 10.86 to 11.44	11.88 11.54 to 12.13	
3,5-Dichlorocatechol	DB-1	1.20E-04	< 0.10	0.1	< 0.5	13.45	to 14.14	13.79 to 14.48	
6-Chlorovanillin	DB-1	1005	2.80E-04	0.28	0.1	1.4	14.50 14.12 to 14.79	16.71 16.49 to 17.16	
3,4-Dichlorocatechol	DB-1	1.13E-04	< 0.50	0.1	< 2.5	14.89	to 15.59	16.47 to 17.18	
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	< 0.02	0.1	< 0.1	16.89	to 17.62	16.46 to 17.19	
5,6-Dichlorovanillin	DB-1	1.18E-04	< 0.10	0.1	< 0.5	19.41	to 20.17	21.60 to 22.36	
Chlorosyringaldehyde	DB-1	3.54E-04	< 0.10	0.1	< 0.5	19.93	to 20.71	23.22 to 24.00	
3,4,5-Trichlorocatechol	DB-1	8.37E-05	< 0.05	0.1	< 0.3	21.00	to 21.76	22.43 to 23.19	
Trichlorosyringol	DB-1	3270	7.95E-05	0.26	0.1	1.3	23.14 22.71 to 23.49	23.66 23.22 to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	1983	2.12E-04	0.42	0.1	2.1	26.70 26.22 to 27.05	28.58 28.16 to 28.99	
4-Chlorophenol	DB-608	1.43E-04	< 0.05	0.1	< 0.3	3.88	to 4.06	3.41 to 3.59	
2,4-Dichlorophenol	DB-608	1.00E-04	< 0.02	0.1	< 0.1	5.80	to 6.07	5.22 to 5.49	
2,4,6-Trichlorophenol	DB-608	1400	1.01E-04	0.14	0.1	0.7	8.32 8.10 to 8.43	7.38 7.18 to 7.52	
4-Chloroguaiacol	DB-608	3.35E-04	< 0.10	0.1	< 0.5	7.25	to 7.57	8.09 to 8.41	
2,4,5-Trichlorophenol	DB-608	4417	1.01E-04	0.45	0.1	2.2	9.97 9.74 to 10.11	8.86 8.70 to 9.07	
4,5-Dichloroguaiacol	DB-608	8.49E-05	< 0.10	0.1	< 0.5	12.51	to 12.95	13.09 to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	< 0.05	0.1	< 0.3	13.99	to 14.45	13.50 to 13.96	
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	< 0.10	0.1	< 0.5	14.56	to 15.04	14.13 to 14.61	
4,5-Dichlorocatechol	DB-608	1.70E-04	< 0.20	0.1	< 1.0	16.02	to 16.50	16.33 to 16.82	
4,5,6-Trichloroguaiacol	DB-608	11711	1.02E-04	1.19	0.1	6.0	18.42 18.08 to 18.60	20.05 19.74 to 20.26	
Pentachlorophenol	DB-608	5.86E-05	< 0.02	0.1	< 0.1	21.16	to 21.72	19.97 to 20.53	
Tetrachloroguaiacol	DB-608	7.31E-05	< 0.02	0.1	< 0.1	22.21	to 22.75	21.82 to 22.36	
Tetrachlorocatechol	DB-608	8.26E-05	< 0.05	0.1	< 0.3	26.08	to 26.65	26.73 to 27.30	
3,4,5-Trichlorophenol	DB-608	27246	9.41E-05	2.56	0.1	13	11.83 11.59 to 12.04	10.57 10.30 to 10.75	

EPA No. 19361

ATI No. 90-05-031-07

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column-----			-----DB-608 column-----		
	Quant.	Area	Factor	Extract		Factor	Conc.	Observed		Observed		
	Column	(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time	Window	Ret. Time	Window	Ret. Time	Window
2,6-Dichlorophenol	DB-1	7.62E-05	< 0.05	0.1	< 0.3	5.34	to 5.68	5.26	to 5.61			
3,5-Dichlorophenol	DB-1	8.63E-05	< 0.05	0.1	< 0.3	6.10	to 6.49	4.84	to 5.23			
3,4-Dichlorophenol	DB-1	8.97E-05	< 0.05	0.1	< 0.3	7.02	to 7.45	6.30	to 6.73			
5-Chloroguaiacol	DB-1	2.08E-04	< 0.10	0.1	< 0.5	7.41	to 7.86	8.03	to 8.48			
2,3,6-Trichlorophenol	DB-1	445	6.40E-05	0.03	0.1	0.1	9.53	9.15 to 9.66	9.20	9.02 to 9.53		
4,6-Dichloroguaiacol	DB-1	5482	1.05E-04	0.58	0.1	2.9	10.97	10.86 to 11.44	11.87	11.54 to 12.13		
3,5-Dichlorocatechol	DB-1	7549	1.20E-04	0.91	0.1	4.5	13.82	13.45 to 14.14	14.18	13.79 to 14.48		
6-Chlorovanillin	DB-1	289	2.80E-04	< 0.10	0.1	< 0.5	14.49	14.12 to 14.79	16.84	16.49 to 17.16		
3,4-Dichlorocatechol	DB-1	2456	1.13E-04	0.28	0.1	1.4	15.28	14.89 to 15.59	16.84	16.47 to 17.18		
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	< 0.02	0.1	< 0.1	16.89	to 17.62	16.46	to 17.19			
5,6-Dichlorovanillin	DB-1	1.18E-04	< 0.10	0.1	< 0.5	19.41	to 20.17	21.60	to 22.36			
Chlorosyringaldehyde	DB-1	450	3.54E-04	0.16	0.1	0.8	20.37	19.93 to 20.71	23.66	23.22 to 24.00		
3,4,5-Trichlorocatechol	DB-1	8.37E-05	< 0.05	0.1	< 0.3	21.00	to 21.76	22.43	to 23.19			
Trichlorosyringol	DB-1	2754	7.95E-05	0.22	0.1	1.1	23.15	22.71 to 23.49	23.66	23.22 to 24.01		
2,6-Dichlorosyringaldehyde	DB-1	1277	2.12E-04	0.27	0.1	1.4	26.82	26.22 to 27.05	28.58	28.16 to 28.99		
4-Chlorophenol	DB-608	1.43E-04	< 0.05	0.1	< 0.3	3.88	to 4.06	3.41	to 3.59			
2,4-Dichlorophenol	DB-608	1.00E-04	< 0.02	0.1	< 0.1	5.80	to 6.07	5.22	to 5.49			
2,4,6-Trichlorophenol	DB-608	2243	1.01E-04	0.23	0.1	1.1	8.32	8.10 to 8.43	7.38	7.18 to 7.52		
4-Chloroguaiacol	DB-608	3.35E-04	< 0.10	0.1	< 0.5	7.25	to 7.57	8.09	to 8.41			
2,4,5-Trichlorophenol	DB-608	5400	1.01E-04	0.55	0.1	2.7	9.97	9.74 to 10.11	8.86	8.70 to 9.07		
4,5-Dichloroguaiacol	DB-608	8.49E-05	< 0.10	0.1	< 0.5	12.51	to 12.95	13.09	to 13.53			
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	< 0.05	0.1	< 0.3	13.99	to 14.45	13.50	to 13.96			
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	< 0.10	0.1	< 0.5	14.56	to 15.04	14.13	to 14.61			
4,5-Dichlorocatechol	DB-608	7093	1.70E-04	1.21	0.1	6.0	16.02	to 16.50	16.33	to 16.82		
4,5,6-Trichloroguaiacol	DB-608	9078	1.02E-04	0.93	0.1	4.6	18.42	18.08 to 18.60	20.05	19.74 to 20.26		
Pentachlorophenol	DB-608	5539	5.86E-05	0.32	0.1	1.6	21.16	to 21.72	19.97	to 20.53		
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1	22.21	to 22.75	21.82	to 22.36		
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3	26.08	to 26.65	26.73	to 27.30		
3,4,5-Trichlorophenol	DB-608	23287	9.41E-05	2.19	0.1	11	11.83	11.59 to 12.04	10.57	10.30 to 10.75		

EPA No. 19362

ATI No. 90-05-031-08

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in	Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Quant. Column	Area (A)	Factor (CF) (1)	Extract Ce (ug/mL) (2)	Factor (X) (3)	Conc. Cs (ug/L) (4)	Observed Ret. Time	Window	Observed Ret. Time	Window	
<hr/>											
2,6-Dichlorophenol	DB-1	569	6.02E-05	< 0.05	0.1	< 0.3	5.53	5.34 to 5.68	5.39	5.26 to 5.61	
3,5-Dichlorophenol	DB-1		6.97E-05	< 0.05	0.1	< 0.3		6.10 to 6.49		4.84 to 5.23	
3,4-Dichlorophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3		7.02 to 7.45		6.30 to 6.73	
5-Chloroguaiacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5		7.41 to 7.86		8.03 to 8.48	
2,3,6-Trichlorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1		9.15 to 9.66		9.02 to 9.53	
4,6-Dichloroguaiacol	DB-1	2987	7.95E-05	0.24	0.1	1.2	10.85	10.86 to 11.44	11.88	11.54 to 12.13	
3,5-Dichlorocatechol	DB-1	3680	9.63E-05	0.35	0.1	1.8	13.71	13.45 to 14.14	14.18	13.79 to 14.48	
6-Chlorovanillin	DB-1	1610	2.22E-04	0.36	0.1	1.8	14.38	14.12 to 14.79	16.64	16.49 to 17.16	
3,4-Dichlorocatechol	DB-1	2486	9.14E-05	0.23	0.1	1.1	14.93	14.89 to 15.59	16.64	16.47 to 17.18	
3,4,5-Trichloroguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1		16.89 to 17.62		16.46 to 17.19	
5,6-Dichlorovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5		19.41 to 20.17		21.60 to 22.36	
Chlorosyringaldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5		19.93 to 20.71		23.22 to 24.00	
3,4,5-Trichlorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3		21.00 to 21.76		22.43 to 23.19	
Trichlorosyringol	DB-1	1461	6.12E-05	0.09	0.1	0.4	23.01	22.71 to 23.49	23.67	23.22 to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	1401	1.61E-04	0.23	0.1	1.1	26.72	26.22 to 27.05	28.59	28.16 to 28.99	
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4-Chlorophenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3		3.88 to 4.06		3.41 to 3.59	
2,4-Dichlorophenol	DB-608	184	1.00E-04	0.02	0.1	0.1	5.89	5.80 to 6.07	5.39	5.22 to 5.49	
2,4,6-Trichlorophenol	DB-608	334	1.01E-04	< 0.05	0.1	< 0.3	8.22	8.10 to 8.43	7.38	7.18 to 7.52	
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.1	< 0.5		7.25 to 7.57		8.09 to 8.41	
2,4,5-Trichlorophenol	DB-608	2207	1.01E-04	0.22	0.1	1.1	9.88	9.74 to 10.11	8.86	8.70 to 9.07	
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5		12.51 to 12.95		13.09 to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3		13.99 to 14.45		13.50 to 13.96	
3,4,6-Trichloroguaiacol	DB-608	2342	1.24E-04	0.29	0.1	1.5	14.93	14.56 to 15.04	14.18	14.13 to 14.61	
4,5-Dichlorocatechol	DB-608	2997	1.70E-04	0.51	0.1	2.5	16.20	16.02 to 16.50	16.64	16.33 to 16.82	
4,5,6-Trichloroguaiacol	DB-608	2183	1.02E-04	0.22	0.1	1.1	18.27	18.08 to 18.60	20.05	19.74 to 20.26	
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1		21.16 to 21.72		19.97 to 20.53	
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1		22.21 to 22.75		21.82 to 22.36	
Tetrachlorocatechol	DB-608	823	8.26E-05	0.07	0.1	0.3	26.34	26.08 to 26.65	27.18	26.73 to 27.30	
3,4,5-Trichlorophenol	DB-608	20492	9.41E-05	1.93	0.1	10	11.72	11.59 to 12.04	10.57	10.30 to 10.75	

EPA No. Blank

ATI No. 90-05-033-00

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Column	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----					
		Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Observed							
		(A)	(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time	Window	Ret. Time	Window		
2,6-Dichlorophenol	DB-1	7.62E-05	<	0.05	0.1	<	0.3		5.34	to	5.68	5.26	to	5.61		
3,5-Dichlorophenol	DB-1	8.63E-05	<	0.05	0.1	<	0.3		6.10	to	6.49	4.84	to	5.23		
3,4-Dichlorophenol	DB-1	8.97E-05	<	0.05	0.1	<	0.3		7.02	to	7.45	6.30	to	6.73		
5-Chloroguaiacol	DB-1	2.08E-04	<	0.10	0.1	<	0.5		7.41	to	7.86	8.03	to	8.48		
2,3,6-Trichlorophenol	DB-1	6.40E-05	<	0.02	0.1	<	0.1		9.15	to	9.66	9.02	to	9.53		
4,6-Dichloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	<	0.3		10.86	to	11.44	11.54	to	12.13		
3,5-Dichlorocatechol	DB-1	1.20E-04	<	0.10	0.1	<	0.5		13.45	to	14.14	13.79	to	14.48		
6-Chlorovanillin	DB-1	2.80E-04	<	0.10	0.1	<	0.5		14.12	to	14.79	16.49	to	17.16		
3,4-Dichlorocatechol	DB-1	1.13E-04	<	0.50	0.1	<	2.5		14.89	to	15.59	16.47	to	17.18		
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	<	0.1		16.89	to	17.62	16.46	to	17.19		
5,6-Dichlorovanillin	DB-1	1.18E-04	<	0.10	0.1	<	0.5		19.41	to	20.17	21.60	to	22.36		
Chlorosyringaldehyde	DB-1	3.54E-04	<	0.10	0.1	<	0.5		19.93	to	20.71	23.22	to	24.00		
3,4,5-Trichlorocatechol	DB-1	8.37E-05	<	0.05	0.1	<	0.3		21.00	to	21.76	22.43	to	23.19		
Trichlorosyringol	DB-1	7.95E-05	<	0.05	0.1	<	0.3		22.71	to	23.49	23.22	to	24.01		
2,6-Dichlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	<	1.3		26.22	to	27.05	28.16	to	28.99		
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3		3.88	to	4.06	3.41	to	3.59		
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1		5.80	to	6.07	5.22	to	5.49		
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		8.10	to	8.43	7.18	to	7.52		
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5		7.25	to	7.57	8.09	to	8.41		
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		9.74	to	10.11	8.70	to	9.07		
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5		12.51	to	12.95	13.09	to	13.53		
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3		13.99	to	14.45	13.50	to	13.96		
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5		14.56	to	15.04	14.13	to	14.61		
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0		16.02	to	16.50	16.33	to	16.82		
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3		18.08	to	18.60	19.74	to	20.26		
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1		21.16	to	21.72	19.97	to	20.53		
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1		22.21	to	22.75	21.82	to	22.36		
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3		26.08	to	26.65	26.73	to	27.30		
3,4,5-Trichlorophenol	DB-608	49569	9.41E-05		4.66	0.1		23	11.84	11.59	to	12.04	10.57	10.30	to	10.75

EPA No. 19364

ATI No. 90-05-033-01

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in	Conc/Dil	Sample	-----DB-1 column-----			-----DB-608 column-----		
	Quant. Column	Area (A)	Factor (CF) (1)	Extract Ce (ug/mL) (2)	Factor (X) (3)	Conc. Cs (ug/L) (4)	Observed Ret. Time	Window	Observed Ret. Time	Window	
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2,6-Dichlorophenol	DB-1	1366	6.02E-05	0.08	0.1	0.4	5.48	5.34 to 5.68	5.42	5.26 to 5.61	
3,5-Dichlorophenol	DB-1	352	6.97E-05	< 0.05	0.1	< 0.3	6.19	6.10 to 6.49	5.10	4.84 to 5.23	
3,4-Dichlorophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3		7.02 to 7.45		6.30 to 6.73	
5-Chloroguaiacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5		7.41 to 7.86		8.03 to 8.48	
2,3,6-Trichlorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1		9.15 to 9.66		9.02 to 9.53	
4,6-Dichloroguaiacol	DB-1	27412	7.95E-05	2.18	0.1	10.9	10.85	10.86 to 11.44	11.88	11.54 to 12.13	
3,5-Dichlorocatechol	DB-1		9.63E-05	< 0.10	0.1	< 0.5		13.45 to 14.14		13.79 to 14.48	
6-Chlorovanillin	DB-1	464	2.22E-04	0.10	0.1	0.5	14.38	14.12 to 14.79	16.76	16.49 to 17.16	
3,4-Dichlorocatechol	DB-1		9.14E-05	< 0.50	0.1	< 2.5		14.89 to 15.59		16.47 to 17.18	
3,4,5-Trichloroguaiacol	DB-1	1558	6.67E-05	0.10	0.1	0.5	17.20	16.89 to 17.62	16.76	16.46 to 17.19	
5,6-Dichlorovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5		19.41 to 20.17		21.60 to 22.36	
Chlorosyringaldehyde	DB-1	1695	2.35E-04	< 0.10	0.1	< 0.5	20.25	19.93 to 20.71	23.66	23.22 to 24.00	
3,4,5-Trichlorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3		21.00 to 21.76		22.43 to 23.19	
Trichlorosyringol	DB-1		6.12E-05	< 0.05	0.1	< 0.3		22.71 to 23.49		23.22 to 24.01	
2,6-Dichlorosyringaldehyde	DB-1		1.61E-04	< 0.25	0.1	< 1.3		26.22 to 27.05		28.16 to 28.99	
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4-Chlorophenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3		3.88 to 4.06		3.41 to 3.59	
2,4-Dichlorophenol	DB-608		1.00E-04	< 0.02	0.1	< 0.1		5.80 to 6.07		5.22 to 5.49	
2,4,6-Trichlorophenol	DB-608	1129	1.01E-04	0.11	0.1	0.6	8.82	8.10 to 8.43	7.38	7.18 to 7.52	
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.1	< 0.5		7.25 to 7.57		8.09 to 8.41	
2,4,5-Trichlorophenol	DB-608	1286	1.01E-04	0.13	0.1	0.6	9.89	9.74 to 10.11	8.87	8.70 to 9.07	
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5		12.51 to 12.95		13.09 to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.1	< 0.3		13.99 to 14.45		13.50 to 13.96	
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	< 0.10	0.1	< 0.5		14.56 to 15.04		14.13 to 14.61	
4,5-Dichlorocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0		16.02 to 16.50		16.33 to 16.82	
4,5,6-Trichloroguaiacol	DB-608	2581	1.02E-04	0.26	0.1	1.3	18.29	18.08 to 18.60	20.05	19.74 to 20.26	
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1		21.16 to 21.72		19.97 to 20.53	
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1		22.21 to 22.75		21.82 to 22.36	
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3		26.08 to 26.65		26.73 to 27.30	
3,4,5-Trichlorophenol	DB-608	38993	9.41E-05	3.67	0.1	18	11.73	11.59 to 12.04	10.57	10.30 to 10.75	

EPA No. 19365

ATI No. 90-05-033-02

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak	Calib	Conc. in	Conc/Dil	Sample	-----DB-1 column----		-----DB-608 column----	
		(A)	(CF) (1)	Extr (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time	Window	Observed	Ret. Time
2,6-Dichlorophenol	DB-1	6.02E-05	< 0.05	0.1	< 0.3	5.34	to 5.68		5.26	to 5.61
3,5-Dichlorophenol	DB-1	6.97E-05	< 0.05	0.1	< 0.3	6.10	to 6.49		4.84	to 5.23
3,4-Dichlorophenol	DB-1	7.89E-05	< 0.05	0.1	< 0.3	7.02	to 7.45		6.30	to 6.73
5-Chloroguaiacol	DB-1	1.66E-04	< 0.10	0.1	< 0.5	7.41	to 7.86		8.03	to 8.48
2,3,6-Trichlorophenol	DB-1	5.07E-05	< 0.02	0.1	< 0.1	9.15	to 9.66		9.02	to 9.53
4,6-Dichloroguaiacol	DB-1	14528	7.95E-05	1.15	0.1	5.8	10.84	10.86 to 11.44	11.88	11.54 to 12.13
3,5-Dichlorocatechol	DB-1	9.63E-05	< 0.10	0.1	< 0.5	13.45	to 14.14		13.79	to 14.48
6-Chlorovanillin	DB-1	210	2.22E-04	< 0.10	0.1	< 0.5	14.38	14.12 to 14.79	16.72	16.49 to 17.16
3,4-Dichlorocatechol	DB-1	9.14E-05	< 0.50	0.1	< 2.5	14.89	to 15.59		16.47	to 17.18
3,4,5-Trichloroguaiacol	DB-1	442	6.67E-05	0.03	0.1	0.1	17.18	16.89 to 17.62	16.72	16.46 to 17.19
5,6-Dichlorovanillin	DB-1	9.38E-05	< 0.10	0.1	< 0.5	19.41	to 20.17		21.60	to 22.36
Chlorosyringaldehyde	DB-1	1117	2.35E-04	< 0.10	0.1	< 0.5	20.23	19.93 to 20.71	23.85	23.22 to 24.00
3,4,5-Trichlorocatechol	DB-1	6.64E-05	< 0.05	0.1	< 0.3	21.00	to 21.76		22.43	to 23.19
Trichlorosyringol	DB-1	393	6.12E-05	< 0.05	0.1	< 0.3	23.01	22.71 to 23.49	23.85	23.22 to 24.01
2,6-Dichlorosyringaldehyde	DB-1	1.61E-04	< 0.25	0.1	< 1.3	26.22	to 27.05		28.16	to 28.99
4-Chlorophenol	DB-608	1.43E-04	< 0.05	0.1	< 0.3	3.88	to 4.06		3.41	to 3.59
2,4-Dichlorophenol	DB-608	1.00E-04	< 0.02	0.1	< 0.1	5.80	to 6.07		5.22	to 5.49
2,4,6-Trichlorophenol	DB-608	633	1.01E-04	0.06	0.1	0.3	8.22	8.10 to 8.43	7.39	7.18 to 7.52
4-Chloroguaiacol	DB-608	3.35E-04	< 0.10	0.1	< 0.5	7.25	to 7.57		8.09	to 8.41
2,4,5-Trichlorophenol	DB-608	735	1.01E-04	0.07	0.1	0.4	9.87	9.74 to 10.11	8.87	8.70 to 9.07
4,5-Dichloroguaiacol	DB-608	8.49E-05	< 0.10	0.1	< 0.5	12.51	to 12.95		13.09	to 13.53
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	< 0.05	0.1	< 0.3	13.99	to 14.45		13.50	to 13.96
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	< 0.10	0.1	< 0.5	14.56	to 15.04		14.13	to 14.61
4,5-Dichlorocatechol	DB-608	501	1.70E-04	< 0.20	0.1	< 1.0	16.38	16.02 to 16.50	16.72	16.33 to 16.82
4,5,6-Trichloroguaiacol	DB-608	1536	1.02E-04	0.16	0.1	0.8	18.27	18.08 to 18.60	20.06	19.74 to 20.26
Pentachlorophenol	DB-608	5.86E-05	< 0.02	0.1	< 0.1	21.16	to 21.72		19.97	to 20.53
Tetrachloroguaiacol	DB-608	166	7.31E-05	< 0.02	0.1	< 0.1	26.18	22.21 to 22.75	22.04	21.82 to 22.36
Tetrachlorocatechol	DB-608	8.26E-05	< 0.05	0.1	< 0.3	26.08	to 26.65		26.73	to 27.30
3,4,5-Trichlorophenol	DB-608	41477	9.41E-05	3.90	0.1	20	11.72	11.59 to 12.04	10.57	10.30 to 10.75

EPA.No. 19366

ATI No. 90-05-033-03

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Column	Peak	Calib	Conc. in	Conc/Dil	Sample	DB-1 column			DB-608 column					
		Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Window	Observed	Ret. Time	Window			
(A)	(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time						
2,6-Dichlorophenol	DB-1	3519	7.62E-05		0.27	1.0	13	5.55	5.34	to	5.68	5.53	5.26	to	5.61
3,5-Dichlorophenol	DB-1		8.63E-05	<	0.05	1.0	<	3	6.10	to	6.49		4.84	to	5.23
3,4-Dichlorophenol	DB-1		8.97E-05	<	0.05	1.0	<	3	7.02	to	7.45		6.30	to	6.73
5-Chloroguaiacol	DB-1		2.08E-04	<	0.10	1.0	<	5	7.41	to	7.86		8.03	to	8.48
2,3,6-Trichlorophenol	DB-1		6.40E-05	<	0.02	1.0	<	1	9.15	to	9.66		9.02	to	9.53
4,6-Dichloroguaiacol	DB-1		1.05E-04	<	0.05	1.0	<	3	10.86	to	11.44		11.54	to	12.13
3,5-Dichlorocatechol	DB-1	11231	1.20E-04		1.35	1.0	67	13.76	13.45	to	14.14	14.14	13.79	to	14.48
6-Chlorovanillin	DB-1	1100	2.80E-04		0.31	1.0	15	14.43	14.12	to	14.79	16.84	16.49	to	17.16
3,4-Dichlorocatechol	DB-1		1.13E-04	<	0.50	1.0	<	25	14.89	to	15.59		16.47	to	17.18
3,4,5-Trichloroguaiacol	DB-1	565	8.49E-05		0.05	1.0	2	17.25	16.89	to	17.62	16.84	16.46	to	17.19
5,6-Dichlorovanillin	DB-1		1.18E-04	<	0.10	1.0	<	5	19.41	to	20.17		21.60	to	22.36
Chlorosyringaldehyde	DB-1		3.54E-04	<	0.10	1.0	<	5	19.93	to	20.71		23.22	to	24.00
3,4,5-Trichlorocatechol	DB-1		8.37E-05	<	0.05	1.0	<	3	21.00	to	21.76		22.43	to	23.19
Trichlorosyringol	DB-1		7.95E-05	<	0.05	1.0	<	3	22.71	to	23.49		23.22	to	24.01
2,6-Dichlorosyringaldehyde	DB-1	1118	2.12E-04		0.24	1.0	12	26.77	26.22	to	27.05	28.57	28.16	to	28.99
4-Chlorophenol	DB-608		1.43E-04	<	0.05	1.0	<	3	3.88	to	4.06		3.41	to	3.59
2,4-Dichlorophenol	DB-608		1.00E-04	<	0.02	1.0	<	1	5.80	to	6.07		5.22	to	5.49
2,4,6-Trichlorophenol	DB-608		1.01E-04	<	0.05	1.0	<	3	8.10	to	8.43		7.18	to	7.52
4-Chloroguaiacol	DB-608		3.35E-04	<	0.10	1.0	<	5	7.25	to	7.57		8.09	to	8.41
2,4,5-Trichlorophenol	DB-608	5111	1.01E-04		0.52	1.0	26	9.91	9.74	to	10.11	8.83	8.70	to	9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	<	0.10	1.0	<	5	12.51	to	12.95		13.09	to	13.53
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	<	0.05	1.0	<	3	13.99	to	14.45		13.50	to	13.96
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	<	0.10	1.0	<	5	14.56	to	15.04		14.13	to	14.61
4,5-Dichlorocatechol	DB-608	7181	1.70E-04		1.22	1.0	61	16.25	16.02	to	16.50	16.59	16.33	to	16.82
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	<	0.05	1.0	<	3	18.08	to	18.60		19.74	to	20.26
Pentachlorophenol	DB-608		5.86E-05	<	0.02	1.0	<	1	21.16	to	21.72		19.97	to	20.53
Tetrachloroguaiacol	DB-608		7.31E-05	<	0.02	1.0	<	1	22.21	to	22.75		21.82	to	22.36
Tetrachlorocatechol	DB-608	4813	8.26E-05		0.40	1.0	20	26.22	26.08	to	26.65	27.04	26.73	to	27.30
3,4,5-Trichlorophenol	DB-608	6024	9.41E-05		0.57	1.0	28	11.78	11.59	to	12.04	10.53	10.30	to	10.75

EPA.No. 19367

ATI No. 90-05-033-04

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	DB-1 column			DB-608 column		
	Quant.	Area	Factor	Extract	Factor	Conc.	Observed		Observed			
	Column	(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time	Window	Ret. Time	Window		
2,6-Dichlorophenol	DB-1		7.62E-05	< 0.05	1.0	< 3	5.34	to 5.68	5.26	to 5.61		
3,5-Dichlorophenol	DB-1		8.63E-05	< 0.05	1.0	< 3	6.10	to 6.49	4.84	to 5.23		
3,4-Dichlorophenol	DB-1		8.97E-05	< 0.05	1.0	< 3	7.02	to 7.45	6.30	to 6.73		
5-Chloroguaiacol	DB-1	693	2.08E-04	0.14	1.0	7	7.62	7.41 to 7.86	8.26	8.03 to 8.48		
2,3,6-Trichlorophenol	DB-1		6.40E-05	< 0.02	1.0	< 1	9.15	to 9.66	9.02	to 9.53		
4,6-Dichloroguaiacol	DB-1	12409	1.05E-04	1.30	1.0	65	10.90	10.86 to 11.44	11.85	11.54 to 12.13		
3,5-Dichlorocatechol	DB-1		1.20E-04	< 0.10	1.0	< 5	13.45	to 14.14	13.79	to 14.48		
6-Chlorovanillin	DB-1		2.80E-04	< 0.10	1.0	< 5	14.12	to 14.79	16.49	to 17.16		
3,4-Dichlorocatechol	DB-1	1242	1.13E-04	< 0.50	1.0	< 25	14.97	14.89 to 15.59	16.67	16.47 to 17.18		
3,4,5-Trichloroguaiacol	DB-1	1325	8.49E-05	0.11	1.0	6	17.25	16.89 to 17.62	16.67	16.46 to 17.19		
5,6-Dichlorovanillin	DB-1		1.18E-04	< 0.10	1.0	< 5	19.41	to 20.17	21.60	to 22.36		
Chlorosyringaldehyde	DB-1		3.54E-04	< 0.10	1.0	< 5	19.93	to 20.71	23.22	to 24.00		
3,4,5-Trichlorocatechol	DB-1		8.37E-05	< 0.05	1.0	< 3	21.00	to 21.76	22.43	to 23.19		
Trichlorosyringol	DB-1	11332	7.95E-05	0.90	1.0	45	23.07	22.71 to 23.49	23.62	23.22 to 24.01		
2,6-Dichlorosyringaldehyde	DB-1	4302	2.12E-04	0.91	1.0	46	26.62	26.22 to 27.05	28.57	28.16 to 28.99		
4-Chlorophenol	DB-608		1.43E-04	< 0.05	1.0	< 3	3.88	to 4.06	3.41	to 3.59		
2,4-Dichlorophenol	DB-608	735	1.00E-04	0.07	1.0	4	5.92	5.80 to 6.07	5.37	5.22 to 5.49		
2,4,6-Trichlorophenol	DB-608	2257	1.01E-04	0.23	1.0	11	8.10	to 8.43	7.18	to 7.52		
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	1.0	< 5	8.26	7.25 to 7.57	7.36	8.09 to 8.41		
2,4,5-Trichlorophenol	DB-608	5636	1.01E-04	0.57	1.0	28	9.93	9.74 to 10.11	8.84	8.70 to 9.07		
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	1.0	< 5	12.51	to 12.95	13.09	to 13.53		
2,3,4,6-Tetrachlorophenol	DB-608	2731	1.24E-04	0.34	1.0	17	14.43	13.99 to 14.45	13.75	13.50 to 13.96		
3,4,6-Trichloroguaiacol	DB-608	2502	1.24E-04	0.31	1.0	16	14.80	14.56 to 15.04	14.38	14.13 to 14.61		
4,5-Dichlorocatechol	DB-608		1.70E-04	< 0.20	1.0	< 10	16.02	to 16.50	16.33	to 16.82		
4,5,6-Trichloroguaiacol	DB-608	28289	1.02E-04	2.89	1.0	144	18.33	18.08 to 18.60	20.02	19.74 to 20.26		
Pentachlorophenol	DB-608		5.86E-05	< 0.02	1.0	< 1	21.16	to 21.72	19.97	to 20.53		
Tetrachloroguaiacol	DB-608	2252	7.31E-05	0.16	1.0	8	22.40	22.21 to 22.75	22.02	21.82 to 22.36		
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	1.0	< 3	26.08	to 26.65	26.73	to 27.30		
3,4,5-Trichlorophenol	DB-608	6373	9.41E-05	0.60	1.0	30	11.79	11.59 to 12.04	10.54	10.30 to 10.75		

EPA No. 19368

ATI No. 90-05-033-05

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant.	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----					
	Column	Area	Factor	Ce (ug/mL)	(2)	(X) (3)	Conc.	Observed	Ret. Time	Window	Observed	Ret. Time	Window			
2,6-Dichlorophenol	DB-1	6.02E-05	<	0.05	0.1	<	0.3	5.34	to	5.68	5.26	to	5.61			
3,5-Dichlorophenol	DB-1	6.97E-05	<	0.05	0.1	<	0.3	6.10	to	6.49	4.84	to	5.23			
3,4-Dichlorophenol	DB-1	7.89E-05	<	0.05	0.1	<	0.3	7.02	to	7.45	6.30	to	6.73			
5-Chloroguaiacol	DB-1	1.66E-04	<	0.10	0.1	<	0.5	7.41	to	7.86	8.03	to	8.48			
2,3,6-Trichlorophenol	DB-1	5.07E-05	<	0.02	0.1	<	0.1	9.15	to	9.66	9.02	to	9.53			
4,6-Dichloroguaiacol	DB-1	7.95E-05	<	0.05	0.1	<	0.3	10.86	to	11.44	11.54	to	12.13			
3,5-Dichlorocatechol	DB-1	9.63E-05	<	0.10	0.1	<	0.5	13.45	to	14.14	13.79	to	14.48			
6-Chlorovanillin	DB-1	2.22E-04	<	0.10	0.1	<	0.5	14.12	to	14.79	16.49	to	17.16			
3,4-Dichlorocatechol	DB-1	9.14E-05	<	0.50	0.1	<	2.5	14.89	to	15.59	16.47	to	17.18			
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	<	0.02	0.1	<	0.1	16.89	to	17.62	16.46	to	17.19			
5,6-Dichlorovanillin	DB-1	9.38E-05	<	0.10	0.1	<	0.5	19.41	to	20.17	21.60	to	22.36			
Chlorosyringaldehyde	DB-1	2.35E-04	<	0.10	0.1	<	0.5	19.93	to	20.71	23.22	to	24.00			
3,4,5-Trichlorocatechol	DB-1	6.64E-05	<	0.05	0.1	<	0.3	21.00	to	21.76	22.43	to	23.19			
Trichlorosyringol	DB-1	6.12E-05	<	0.05	0.1	<	0.3	22.71	to	23.49	23.22	to	24.01			
2,6-Dichlorosyringaldehyde	DB-1	1.61E-04	<	0.25	0.1	<	1.3	26.22	to	27.05	28.16	to	28.99			
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3	3.88	to	4.06	3.41	to	3.59			
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1	5.80	to	6.07	5.22	to	5.49			
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	8.10	to	8.43	7.18	to	7.52			
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5	7.25	to	7.57	8.09	to	8.41			
2,4,5-Trichlorophenol	DB-608	224	1.01E-04	<	0.05	0.1	<	0.3	9.88	9.74	to	10.11	8.93	8.70	to	9.07
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5	12.51	to	12.95	13.09	to	13.53			
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3	13.99	to	14.45	13.50	to	13.96			
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5	14.56	to	15.04	14.13	to	14.61			
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0	16.02	to	16.50	16.33	to	16.82			
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3	18.08	to	18.60	19.74	to	20.26			
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1	21.16	to	21.72	19.97	to	20.53			
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1	22.21	to	22.75	21.82	to	22.36			
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3	26.08	to	26.65	26.73	to	27.30			
3,4,5-Trichlorophenol	DB-608	48060	9.41E-05	4.52	0.1	23	11.73	11.59	to	12.04	10.61	10.30	to	10.75		

EPA No. 19369

ATI No. 90-05-033-06

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Column	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----			
		Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Ret. Time	Window	Observed	Ret. Time	Window	
2,6-Dichlorophenol	DB-1	6.02E-05	<	0.05	0.1	<	0.3	5.34	to	5.68	5.26	to	5.61	
3,5-Dichlorophenol	DB-1	6.97E-05	<	0.05	0.1	<	0.3	6.10	to	6.49	4.84	to	5.23	
3,4-Dichlorophenol	DB-1	7.89E-05	<	0.05	0.1	<	0.3	7.02	to	7.45	6.30	to	6.73	
5-Chloroguaiacol	DB-1	1.66E-04	<	0.10	0.1	<	0.5	7.41	to	7.86	8.03	to	8.48	
2,3,6-Trichlorophenol	DB-1	5.07E-05	<	0.02	0.1	<	0.1	9.15	to	9.66	9.02	to	9.53	
4,6-Dichloroguaiacol	DB-1	7.95E-05	<	0.05	0.1	<	0.3	10.86	to	11.44	11.54	to	12.13	
3,5-Dichlorocatechol	DB-1	9.63E-05	<	0.10	0.1	<	0.5	13.45	to	14.14	13.79	to	14.48	
6-Chlorovanillin	DB-1	2.22E-04	<	0.10	0.1	<	0.5	14.12	to	14.79	16.49	to	17.16	
3,4-Dichlorocatechol	DB-1	9.14E-05	<	0.50	0.1	<	2.5	14.89	to	15.59	16.47	to	17.18	
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	<	0.02	0.1	<	0.1	16.89	to	17.62	16.46	to	17.19	
5,6-Dichlorovanillin	DB-1	9.38E-05	<	0.10	0.1	<	0.5	19.41	to	20.17	21.60	to	22.36	
Chlorosyringaldehyde	DB-1	2.35E-04	<	0.10	0.1	<	0.5	19.93	to	20.71	23.22	to	24.00	
3,4,5-Trichlorocatechol	DB-1	6.64E-05	<	0.05	0.1	<	0.3	21.00	to	21.76	22.43	to	23.19	
Trichlorosyringol	DB-1	6.12E-05	<	0.05	0.1	<	0.3	22.71	to	23.49	23.22	to	24.01	
2,6-Dichlorosyringaldehyde	DB-1	1.61E-04	<	0.25	0.1	<	1.3	26.22	to	27.05	28.16	to	28.99	
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3	3.88	to	4.06	3.41	to	3.59	
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1	5.80	to	6.07	5.22	to	5.49	
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	8.10	to	8.43	7.18	to	7.52	
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5	7.25	to	7.57	8.09	to	8.41	
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	9.74	to	10.11	8.70	to	9.07	
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5	12.51	to	12.95	13.09	to	13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3	13.99	to	14.45	13.50	to	13.96	
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5	14.56	to	15.04	14.13	to	14.61	
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0	16.02	to	16.50	16.33	to	16.82	
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3	18.08	to	18.60	19.74	to	20.26	
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1	21.16	to	21.72	19.97	to	20.53	
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1	22.21	to	22.75	21.82	to	22.36	
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3	26.08	to	26.65	26.73	to	27.30	
3,4,5-Trichlorophenol	DB-608	22386	9.41E-05	2.11	0.1	11	11.72	11.59	to	12.04	10.57	10.30	to	10.75

EPA No. 19370

ATI No. 90-05-033-07

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area	Calib (A)	Conc. in Extract	Conc/Dil Factor	Sample Conc.	-----DB-1 column-----			-----DB-608 column-----							
		(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time	Window	Ret. Time					
2,6-Dichlorophenol	DB-1	6.02E-05	<	0.05	0.2	<	0.5		5.34	to	5.68	5.26	to	5.61			
3,5-Dichlorophenol	DB-1	6.97E-05	<	0.05	0.2	<	0.5		6.10	to	6.49	4.84	to	5.23			
3,4-Dichlorophenol	DB-1	7.89E-05	<	0.05	0.2	<	0.5		7.02	to	7.45	6.30	to	6.73			
5-Chloroguaiacol	DB-1	1.66E-04	<	0.10	0.2	<	1.0		7.41	to	7.86	8.03	to	8.48			
2,3,6-Trichlorophenol	DB-1	5.07E-05	<	0.02	0.2	<	0.2		9.15	to	9.66	9.02	to	9.53			
4,6-Dichloroguaiacol	DB-1	7.95E-05	<	0.05	0.2	<	0.5		10.86	to	11.44	11.54	to	12.13			
3,5-Dichlorocatechol	DB-1	9.63E-05	<	0.10	0.2	<	1.0		13.45	to	14.14	13.79	to	14.48			
6-Chlorovanillin	DB-1	2.22E-04		0.49	0.2		4.9	14.36	14.12	to	14.79	16.69	16.49	to	17.16		
3,4-Dichlorocatechol	DB-1	9.14E-05	<	0.50	0.2	<	5.0		14.89	to	15.59	16.47	to	17.18			
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	<	0.02	0.2	<	0.2		16.89	to	17.62	16.46	to	17.19			
5,6-Dichlorovanillin	DB-1	9.38E-05	<	0.10	0.2	<	1.0		19.41	to	20.17	21.60	to	22.36			
Chlorosyringaldehyde	DB-1	2.35E-04	<	0.10	0.2	<	1.0		19.93	to	20.71	23.22	to	24.00			
3,4,5-Trichlorocatechol	DB-1	10888	6.64E-05		0.72		7.2	21.27	21.00	to	21.76	22.87	22.43	to	23.19		
Trichlorosyringol	DB-1	6717	6.12E-05		0.41		4.1	22.99	22.71	to	23.49	23.67	23.22	to	24.01		
2,6-Dichlorosyringaldehyde	DB-1	2456	1.61E-04		0.40		4.0	26.55	26.22	to	27.05	28.56	28.16	to	28.99		
4-Chlorophenol	DB-608	347	1.43E-04		0.05		0.5	3.89	3.88	to	4.06	3.42	3.41	to	3.59		
2,4-Dichlorophenol	DB-608		1.00E-04	<	0.02		0.2	<	0.2		5.80	to	6.07	5.22	to	5.49	
2,4,6-Trichlorophenol	DB-608	980	1.01E-04		0.10		0.2		8.20	8.10	to	8.43	7.38	7.18	to	7.52	
4-Chloroguaiacol	DB-608		3.35E-04	<	0.10		0.2	<	1.0		7.25	to	7.57	8.09	to	8.41	
2,4,5-Trichlorophenol	DB-608	3794	1.01E-04		0.38		0.2		3.8	9.86	9.74	to	10.11	8.88	8.70	to	9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	<	0.10		0.2	<	1.0		12.51	to	12.95	13.09	to	13.53	
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	<	0.05		0.2	<	0.5		13.99	to	14.45	13.50	to	13.96	
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	<	0.10		0.2	<	1.0		14.56	to	15.04	14.13	to	14.61	
4,5-Dichlorocatechol	DB-608		1.70E-04	<	0.20		0.2	<	2.0		16.02	to	16.50	16.33	to	16.82	
4,5,6-Trichloroguaiacol	DB-608	9550	1.02E-04		0.97		0.2		9.7	18.26	18.08	to	18.60	20.07	19.74	to	20.26
Pentachlorophenol	DB-608	8909	5.86E-05		0.52		0.2		5.2	21.27	21.16	to	21.72	20.32	19.97	to	20.53
Tetrachloroguaiacol	DB-608	4765	7.31E-05		0.35		0.2		3.5	22.28	22.21	to	22.75	22.05	21.82	to	22.36
Tetrachlorocatechol	DB-608		8.26E-05	<	0.05		0.2	<	0.5		26.08	to	26.65	26.73	to	27.30	
3,4,5-Trichlorophenol	DB-608	22292	9.41E-05		2.10		0.2		21	11.72	11.59	to	12.04	10.57	10.30	to	10.75

EPA No. 19371

ATI No. 90-05-033-08

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Window	Observed	Ret. Time	Window	
	Column	(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time			Ret. Time		
2,6-Dichlorophenol	DB-1		6.02E-05	< 0.05	0.2	< 0.5	5.34	to 5.68		5.26	to 5.61	
3,5-Dichlorophenol	DB-1	370	6.97E-05	< 0.05	0.2	< 0.5	6.38	6.10 to 6.49	5.09	4.84 to 5.23		
3,4-Dichlorophenol	DB-1		7.89E-05	< 0.05	0.2	< 0.5	7.02	to 7.45		6.30	to 6.73	
5-Chloroguaiacol	DB-1		1.66E-04	< 0.10	0.2	< 1.0	7.41	to 7.86		8.03	to 8.48	
2,3,6-Trichlorophenol	DB-1	559	5.07E-05	0.03	0.2	0.3	9.43	9.15 to 9.66	9.20	9.02 to 9.53		
4,6-Dichloroguaiacol	DB-1	5563	7.95E-05	0.44	0.2	4.4	10.85	10.86 to 11.44	11.89	11.54 to 12.13		
3,5-Dichlorocatechol	DB-1	5414	9.63E-05	0.52	0.2	5.2	13.71	13.45 to 14.14	14.19	13.79 to 14.48		
6-Chlorovanillin	DB-1	795	2.22E-04	0.18	0.2	1.8	14.38	14.12 to 14.79	16.84	16.49 to 17.16		
3,4-Dichlorocatechol	DB-1		9.14E-05	< 0.50	0.2	< 5.0	14.89	to 15.59		16.47	to 17.18	
3,4,5-Trichloroguaiacol	DB-1	1054	6.67E-05	0.07	0.2	0.7	17.18	16.89 to 17.62	16.84	16.46 to 17.19		
5,6-Dichlorovanillin	DB-1		9.38E-05	< 0.10	0.2	< 1.0	19.41	to 20.17		21.60	to 22.36	
Chlorosyringaldehyde	DB-1		2.35E-04	< 0.10	0.2	< 1.0	19.93	to 20.71		23.22	to 24.00	
3,4,5-Trichlorocatechol	DB-1		6.64E-05	< 0.05	0.2	< 0.5	21.00	to 21.76		22.43	to 23.19	
Trichlorosyringol	DB-1		6.12E-05	< 0.05	0.2	< 0.5	22.71	to 23.49		23.22	to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	1731	1.61E-04	0.28	0.2	2.8	26.57	26.22 to 27.05	28.60	28.16 to 28.99		
4-Chlorophenol	DB-608		1.43E-04	< 0.05	0.2	< 0.5	3.88	to 4.06		3.41	to 3.59	
2,4-Dichlorophenol	DB-608	700	1.00E-04	0.07	0.2	0.7	5.92	5.80 to 6.07	5.41	5.22 to 5.49		
2,4,6-Trichlorophenol	DB-608	1620	1.01E-04	0.16	0.2	1.6	8.22	8.10 to 8.43	7.39	7.18 to 7.52		
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.2	< 1.0	7.25	to 7.57		8.09	to 8.41	
2,4,5-Trichlorophenol	DB-608	4823	1.01E-04	0.49	0.2	4.9	9.87	9.74 to 10.11	8.88	8.70 to 9.07		
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.2	< 1.0	12.51	to 12.95		13.09	to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.2	< 0.5	13.99	to 14.45		13.50	to 13.96	
3,4,6-Trichloroguaiacol	DB-608	1058	1.24E-04	0.13	0.2	1.3	14.93	14.56 to 15.04	14.43	14.13 to 14.61		
4,5-Dichlorocatechol	DB-608	4926	1.70E-04	0.84	0.2	8.4	16.18	16.02 to 16.50	16.64	16.33 to 16.82		
4,5,6-Trichloroguaiacol	DB-608	8771	1.02E-04	0.89	0.2	8.9	18.26	18.08 to 18.60	20.06	19.74 to 20.26		
Pentachlorophenol	DB-608	4016	5.86E-05	0.24	0.2	2.4	21.27	21.16 to 21.72	20.33	19.97 to 20.53		
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.2	< 0.2	22.21	to 22.75		21.82	to 22.36	
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.2	< 0.5	26.08	to 26.65		26.73	to 27.30	
3,4,5-Trichlorophenol	DB-608	22366	9.41E-05	2.10	0.2	21	11.73	11.59 to 12.04	10.57	10.30 to 10.75		

EPA No. 19372

ATI No. 90-05-033-09

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in	Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Quant. Column	Area (A)	Factor (CF) (1)	Extract Ce (ug/mL) (2)	Factor (X) (3)	Conc. Cs (ug/L) (4)	Observed Ret. Time	Window	Observed Ret. Time	Window	
<=====											
2,6-Dichlorophenol	DB-1	6.02E-05	< 0.05	0.1	< 0.3	5.34	to 5.68		5.26	to 5.61	
3,5-Dichlorophenol	DB-1	6.97E-05	< 0.05	0.1	< 0.3	6.10	to 6.49		4.84	to 5.23	
3,4-Dichlorophenol	DB-1	7.89E-05	< 0.05	0.1	< 0.3	7.02	to 7.45		6.30	to 6.73	
5-Chloroguaiacol	DB-1	1.66E-04	< 0.10	0.1	< 0.5	7.41	to 7.86		8.03	to 8.48	
2,3,6-Trichlorophenol	DB-1	5.07E-05	< 0.02	0.1	< 0.1	9.15	to 9.66		9.02	to 9.53	
4,6-Dichloroguaiacol	DB-1	3504	7.95E-05	0.28	0.1	1.4	10.84	10.86	to 11.44	11.89	11.54 to 12.13
3,5-Dichlorocatechol	DB-1	2850	9.63E-05	0.27	0.1	1.4	13.71	13.45	to 14.14	14.19	13.79 to 14.48
6-Chlorovanillin	DB-1	2745	2.22E-04	0.61	0.1	3.0	14.36	14.12	to 14.79	16.67	16.49 to 17.16
3,4-Dichlorocatechol	DB-1	3053	9.14E-05	< 0.50	0.1	< 2.5	14.93	14.89	to 15.59	16.67	16.47 to 17.18
3,4,5-Trichloroguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1		16.89	to 17.62		16.46 to 17.19
5,6-Dichlorovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5		19.41	to 20.17		21.60 to 22.36
Chlorosyringaldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5		19.93	to 20.71		23.22 to 24.00
3,4,5-Trichlorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3		21.00	to 21.76		22.43 to 23.19
Trichlorosyringol	DB-1	2096	6.12E-05	0.13	0.1	0.6	23.00	22.71	to 23.49	23.69	23.22 to 24.01
2,6-Dichlorosyringaldehyde	DB-1	1557	1.61E-04	0.25	0.1	1.3	26.54	26.22	to 27.05	28.61	28.16 to 28.99
 4-Chlorophenol											
2,4-Dichlorophenol	DB-608	359	1.00E-04	0.04	0.1	0.2	5.90	5.80	to 6.07	5.39	5.22 to 5.49
2,4,6-Trichlorophenol	DB-608	576	1.01E-04	0.06	0.1	0.3	8.20	8.10	to 8.43	7.38	7.18 to 7.52
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.1	< 0.5		7.25	to 7.57		8.09 to 8.41
2,4,5-Trichlorophenol	DB-608	2746	1.01E-04	0.28	0.1	1.4	9.87	9.74	to 10.11	8.88	8.70 to 9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5		12.51	to 12.95		13.09 to 13.53
2,3,4,6-Tetrachlorophenol	DB-608	1787	1.24E-04	0.22	0.1	1.1	14.36	13.99	to 14.45	13.79	13.50 to 13.96
3,4,6-Trichloroguaiacol	DB-608	1330	1.24E-04	0.16	0.1	0.8	14.93	14.56	to 15.04	14.40	14.13 to 14.61
4,5-Dichlorocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0		16.02	to 16.50		16.33 to 16.82
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	< 0.05	0.1	< 0.3		18.08	to 18.60		19.74 to 20.26
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1		21.16	to 21.72		19.97 to 20.53
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1		22.21	to 22.75		21.82 to 22.36
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.1	< 0.3		26.08	to 26.65		26.73 to 27.30
3,4,5-Trichlorophenol	DB-608	36106	9.41E-05	3.40	0.1	17		11.59	to 12.04		10.30 to 10.75

EPA No. 19373

ATI No. 90-05-033-10

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Column	Peak	Calib	Conc. in	Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----			
		Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Ret. Time	Window	Observed	Ret. Time	Window
		(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)							
2,6-Dichlorophenol	DB-1	711	6.02E-05	< 0.05	0.1	< 0.3	5.53	5.34	to 5.68	5.38	5.26	to 5.61	
3,5-Dichlorophenol	DB-1	268	6.97E-05	< 0.05	0.1	< 0.3	6.42	6.10	to 6.49	6.08	4.84	to 5.23	
3,4-Dichlorophenol	DB-1		7.89E-05	< 0.05	0.1	< 0.3		7.02	to 7.45		6.30	to 6.73	
5-Chloroguaiacol	DB-1		1.66E-04	< 0.10	0.1	< 0.5		7.41	to 7.86		8.03	to 8.48	
2,3,6-Trichlorophenol	DB-1		5.07E-05	< 0.02	0.1	< 0.1		9.15	to 9.66		9.02	to 9.53	
4,6-Dichloroguaiacol	DB-1	4740	7.95E-05	0.38	0.1	1.9	10.86	10.86	to 11.44	11.88	11.54	to 12.13	
3,5-Dichlorocatechol	DB-1	3876	9.63E-05	0.37	0.1	1.9	13.72	13.45	to 14.14	14.20	13.79	to 14.48	
6-Chlorovanillin	DB-1	2733	2.22E-04	0.61	0.1	3.0	14.38	14.12	to 14.79	16.68	16.49	to 17.16	
3,4-Dichlorocatechol	DB-1		9.14E-05	< 0.50	0.1	< 2.5		14.89	to 15.59		16.47	to 17.18	
3,4,5-Trichloroguaiacol	DB-1		6.67E-05	< 0.02	0.1	< 0.1		16.89	to 17.62		16.46	to 17.19	
5,6-Dichlorovanillin	DB-1		9.38E-05	< 0.10	0.1	< 0.5		19.41	to 20.17		21.60	to 22.36	
Chlorosyringaldehyde	DB-1		2.35E-04	< 0.10	0.1	< 0.5		19.93	to 20.71		23.22	to 24.00	
3,4,5-Trichlorocatechol	DB-1		6.64E-05	< 0.05	0.1	< 0.3		21.00	to 21.76		22.43	to 23.19	
Trichlorosyringol	DB-1	2878	6.12E-05	0.18	0.1	0.9	23.02	22.71	to 23.49	23.69	23.22	to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	2747	1.61E-04	0.44	0.1	2.2	26.57	26.22	to 27.05	28.61	28.16	to 28.99	
4-Chlorophenol	DB-608		1.43E-04	< 0.05	0.1	< 0.3		3.88	to 4.06		3.41	to 3.59	
2,4-Dichlorophenol	DB-608	403	1.00E-04	0.04	0.1	0.2	5.91	5.80	to 6.07	5.38	5.22	to 5.49	
2,4,6-Trichlorophenol	DB-608	549	1.01E-04	0.06	0.1	0.3	8.22	8.10	to 8.43	7.39	7.18	to 7.52	
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.1	< 0.5		7.25	to 7.57		8.09	to 8.41	
2,4,5-Trichlorophenol	DB-608	3088	1.01E-04	0.31	0.1	1.6	9.88	9.74	to 10.11	8.88	8.70	to 9.07	
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.1	< 0.5		12.51	to 12.95		13.09	to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1531	1.24E-04	0.19	0.1	0.9	14.38	13.99	to 14.45	13.78	13.50	to 13.96	
3,4,6-Trichloroguaiacol	DB-608	832	1.24E-04	0.10	0.1	0.5	14.93	14.56	to 15.04	14.41	14.13	to 14.61	
4,5-Dichlorocatechol	DB-608		1.70E-04	< 0.20	0.1	< 1.0		16.02	to 16.50		16.33	to 16.82	
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	< 0.05	0.1	< 0.3		18.08	to 18.60		19.74	to 20.26	
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.1	< 0.1		21.16	to 21.72		19.97	to 20.53	
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.1	< 0.1		22.21	to 22.75		21.82	to 22.36	
Tetrachlorocatechol	DB-608	1164	8.26E-05	0.10	0.1	0.5	26.34	26.08	to 26.65	27.19	26.73	to 27.30	
3,4,5-Trichlorophenol	DB-608	28856	9.41E-05	2.72	0.1	14	11.74	11.59	to 12.04	10.58	10.30	to 10.75	

EPA No. Blank

ATI No. 90-05-037-00

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	DB-1 column			DB-608 column		
	Quant.	Column	Area	Factor	Extract	Factor	Conc.	Observed	Window	Observed	Ret. Time	Window
(A)	(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time			
2,6-Dichlorophenol	DB-1	7.62E-05	<	0.05	0.1	<	0.3		5.34 to 5.68		5.26 to 5.61	
3,5-Dichlorophenol	DB-1	8.63E-05	<	0.05	0.1	<	0.3		6.10 to 6.49		4.84 to 5.23	
3,4-Dichlorophenol	DB-1	8.97E-05	<	0.05	0.1	<	0.3		7.02 to 7.45		6.30 to 6.73	
5-Chloroguaiacol	DB-1	2.08E-04	<	0.10	0.1	<	0.5		7.41 to 7.86		8.03 to 8.48	
2,3,6-Trichlorophenol	DB-1	6.40E-05	<	0.02	0.1	<	0.1		9.15 to 9.66		9.02 to 9.53	
4,6-Dichloroguaiacol	DB-1	1.05E-04	<	0.05	0.1	<	0.3		10.86 to 11.44		11.54 to 12.13	
3,5-Dichlorocatechol	DB-1	1.20E-04	<	0.10	0.1	<	0.5		13.45 to 14.14		13.79 to 14.48	
6-Chlorovanillin	DB-1	2.80E-04	<	0.10	0.1	<	0.5		14.12 to 14.79		16.49 to 17.16	
3,4-Dichlorocatechol	DB-1	1.13E-04	<	0.50	0.1	<	2.5		14.89 to 15.59		16.47 to 17.18	
3,4,5-Trichloroguaiacol	DB-1	8.49E-05	<	0.02	0.1	<	0.1		16.89 to 17.62		16.46 to 17.19	
5,6-Dichlorovanillin	DB-1	1.18E-04	<	0.10	0.1	<	0.5		19.41 to 20.17		21.60 to 22.36	
Chlorosyringaldehyde	DB-1	3.54E-04	<	0.10	0.1	<	0.5		19.93 to 20.71		23.22 to 24.00	
3,4,5-Trichlorocatechol	DB-1	8.37E-05	<	0.05	0.1	<	0.3		21.00 to 21.76		22.43 to 23.19	
Trichlorosyringol	DB-1	7.95E-05	<	0.05	0.1	<	0.3		22.71 to 23.49		23.22 to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	2.12E-04	<	0.25	0.1	<	1.3		26.22 to 27.05		28.16 to 28.99	
4-Chlorophenol	DB-608	1.43E-04	<	0.05	, 0.1	<	0.3		3.88 to 4.06		3.41 to 3.59	
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1		5.80 to 6.07		5.22 to 5.49	
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		8.10 to 8.43		7.18 to 7.52	
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5		7.25 to 7.57		8.09 to 8.41	
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		9.74 to 10.11		8.70 to 9.07	
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5		12.51 to 12.95		13.09 to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3		13.99 to 14.45		13.50 to 13.96	
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5		14.56 to 15.04		14.13 to 14.61	
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0		16.02 to 16.50		16.33 to 16.82	
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3		18.08 to 18.60		19.74 to 20.26	
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1		21.16 to 21.72		19.97 to 20.53	
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1		22.21 to 22.75		21.82 to 22.36	
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3		26.08 to 26.65		26.73 to 27.30	
3,4,5-Trichlorophenol	DB-608	38397	9.41E-05	3.61	0.1	18	11.82	11.59	to 12.04	10.56	10.30	to 10.75

EPA No. 19375

ATI No. 90-05-037-01

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in	Conc/Dil	Sample	DB-1 column---			DB-608 column---		
	Quant.	Area	Factor	Extract	Factor	Conc.	Observed		Observed		
	Column	(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time	Window	Ret. Time	Window	
2,6-Dichlorophenol	DB-1	6.02E-05	< 0.05	0.1	< 0.3	5.34	to 5.68		5.26	to 5.61	
3,5-Dichlorophenol	DB-1	6.97E-05	< 0.05	0.1	< 0.3	6.10	to 6.49		4.84	to 5.23	
3,4-Dichlorophenol	DB-1	7.89E-05	< 0.05	0.1	< 0.3	7.02	to 7.45		6.30	to 6.73	
5-Chloroguaiacol	DB-1	1.66E-04	< 0.10	0.1	< 0.5	7.41	to 7.86		8.03	to 8.48	
2,3,6-Trichlorophenol	DB-1	5.07E-05	< 0.02	0.1	< 0.1	9.15	to 9.66		9.02	to 9.53	
4,6-Dichloroguaiacol	DB-1	7.95E-05	< 0.05	0.1	< 0.3	10.86	to 11.44		11.54	to 12.13	
3,5-Dichlorocatechol	DB-1	9.63E-05	< 0.10	0.1	< 0.5	13.45	to 14.14		13.79	to 14.48	
6-Chlorovanillin	DB-1	2.22E-04	< 0.10	0.1	< 0.5	14.12	to 14.79		16.49	to 17.16	
3,4-Dichlorocatechol	DB-1	9.14E-05	< 0.50	0.1	< 2.5	14.89	to 15.59		16.47	to 17.18	
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	< 0.02	0.1	< 0.1	16.89	to 17.62		16.46	to 17.19	
5,6-Dichlorovanillin	DB-1	9.38E-05	< 0.10	0.1	< 0.5	19.41	to 20.17		21.60	to 22.36	
Chlorosyringaldehyde	DB-1	2.35E-04	< 0.10	0.1	< 0.5	19.93	to 20.71		23.22	to 24.00	
3,4,5-Trichlorocatechol	DB-1	6.64E-05	< 0.05	0.1	< 0.3	21.00	to 21.76		22.43	to 23.19	
Trichlorosyringol	DB-1	6.12E-05	< 0.05	0.1	< 0.3	22.71	to 23.49		23.22	to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	1.61E-04	< 0.25	0.1	< 1.3	26.22	to 27.05		28.16	to 28.99	
4-Chlorophenol	DB-608	1.43E-04	< 0.05	0.1	< 0.3	3.88	to 4.06		3.41	to 3.59	
2,4-Dichlorophenol	DB-608	1.00E-04	< 0.02	0.1	< 0.1	5.80	to 6.07		5.22	to 5.49	
2,4,6-Trichlorophenol	DB-608	1.01E-04	< 0.05	0.1	< 0.3	8.10	to 8.43		7.18	to 7.52	
4-Chloroguaiacol	DB-608	3.35E-04	< 0.10	0.1	< 0.5	7.25	to 7.57		8.09	to 8.41	
2,4,5-Trichlorophenol	DB-608	1.01E-04	< 0.05	0.1	< 0.3	9.74	to 10.11		8.70	to 9.07	
4,5-Dichloroguaiacol	DB-608	8.49E-05	< 0.10	0.1	< 0.5	12.51	to 12.95		13.09	to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	< 0.05	0.1	< 0.3	13.99	to 14.45		13.50	to 13.96	
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	< 0.10	0.1	< 0.5	14.56	to 15.04		14.13	to 14.61	
4,5-Dichlorocatechol	DB-608	1.70E-04	< 0.20	0.1	< 1.0	16.02	to 16.50		16.33	to 16.82	
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	< 0.05	0.1	< 0.3	18.08	to 18.60		19.74	to 20.26	
Pentachlorophenol	DB-608	5.86E-05	< 0.02	0.1	< 0.1	21.16	to 21.72		19.97	to 20.53	
Tetrachloroguaiacol	DB-608	7.31E-05	< 0.02	0.1	< 0.1	22.21	to 22.75		21.82	to 22.36	
Tetrachlorocatechol	DB-608	8.26E-05	< 0.05	0.1	< 0.3	26.08	to 26.65		26.73	to 27.30	
3,4,5-Trichlorophenol	DB-608	55048	9.41E-05	5.18	0.1	26	11.72	11.59	to 12.04	10.59	10.30 to 10.75

EPA No. 19376

ATI No. 90-05-037-02

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant.	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Column	Area	Factor	Extract	Ce (ug/mL)	(X) (3)	Conc.	Observed	Ret. Time	Window	Observed	Ret. Time	Window
2,6-Dichlorophenol	DB-1		6.02E-05	<	0.05	0.1	< 0.3		5.34	to 5.68		5.26	to 5.61
3,5-Dichlorophenol	DB-1	363	6.97E-05	<	0.05	0.1	< 0.3	6.22	6.10	to 6.49	5.18	4.84	to 5.23
3,4-Dichlorophenol	DB-1		7.89E-05	<	0.05	0.1	< 0.3		7.02	to 7.45		6.30	to 6.73
5-Chloroguaiacol	DB-1	1723	1.66E-04		0.29	0.1	1.4	7.41	7.41	to 7.86	8.40	8.03	to 8.48
2,3,6-Trichlorophenol	DB-1		5.07E-05	<	0.02	0.1	< 0.1		9.15	to 9.66		9.02	to 9.53
4,6-Dichloroguaiacol	DB-1		7.95E-05	<	0.05	0.1	< 0.3		10.86	to 11.44		11.54	to 12.13
3,5-Dichlorocatechol	DB-1	1717	9.63E-05		0.17	0.1	0.8	13.72	13.45	to 14.14	13.96	13.79	to 14.48
6-Chlorovanillin	DB-1		2.22E-04	<	0.10	0.1	< 0.5		14.12	to 14.79		16.49	to 17.16
3,4-Dichlorocatechol	DB-1	1908	9.14E-05		0.17	0.1	0.9	14.95	14.89	to 15.59	16.96	16.47	to 17.18
3,4,5-Trichloroguaiacol	DB-1	2304	6.67E-05		0.15	0.1	0.8	17.22	16.89	to 17.62	16.96	16.46	to 17.19
5,6-Dichlorovanillin	DB-1	3573	9.38E-05		0.34	0.1	1.7	19.73	19.41	to 20.17	21.95	21.60	to 22.36
Chlorosyringaldehyde	DB-1		2.35E-04	<	0.10	0.1	< 0.5		19.93	to 20.71		23.22	to 24.00
3,4,5-Trichlorocatechol	DB-1	1919	6.64E-05		0.13	0.1	0.6	21.32	21.00	to 21.76	22.72	22.43	to 23.19
Trichlorosyringol	DB-1	572	6.12E-05	<	0.05	0.1	< 0.3	23.02	22.71	to 23.49	23.62	23.22	to 24.01
2,6-Dichlorosyringaldehyde	DB-1		1.61E-04	<	0.25	0.1	< 1.3		26.22	to 27.05		28.16	to 28.99
4-Chlorophenol	DB-608		1.43E-04	<	0.05	0.1	< 0.3		3.88	to 4.06		3.41	to 3.59
2,4-Dichlorophenol	DB-608		1.00E-04	<	0.02	0.1	< 0.1		5.80	to 6.07		5.22	to 5.49
2,4,6-Trichlorophenol	DB-608	209	1.01E-04	<	0.05	0.1	< 0.3	8.21	8.10	to 8.43	7.26	7.18	to 7.52
4-Chloroguaiacol	DB-608		3.35E-04	<	0.10	0.1	< 0.5		7.25	to 7.57		8.09	to 8.41
2,4,5-Trichlorophenol	DB-608	2827	1.01E-04		0.29	0.1	1.4	9.88	9.74	to 10.11	9.01	8.70	to 9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	<	0.10	0.1	< 0.5		12.51	to 12.95		13.09	to 13.53
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	<	0.05	0.1	< 0.3		13.99	to 14.45		13.50	to 13.96
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	<	0.10	0.1	< 0.5		14.56	to 15.04		14.13	to 14.61
4,5-Dichlorocatechol	DB-608		1.70E-04	<	0.20	0.1	< 1.0		16.02	to 16.50		16.33	to 16.82
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	<	0.05	0.1	< 0.3		18.08	to 18.60		19.74	to 20.26
Pentachlorophenol	DB-608	1430	5.86E-05		0.08	0.1	0.4	21.32	21.16	to 21.72	20.26	19.97	to 20.53
Tetrachloroguaiacol	DB-608	2495	7.31E-05		0.18	0.1	0.9	22.30	22.21	to 22.75	21.95	21.82	to 22.36
Tetrachlorocatechol	DB-608		8.26E-05	<	0.05	0.1	< 0.3		26.08	to 26.65		26.73	to 27.30
3,4,5-Trichlorophenol	DB-608	71068	9.41E-05		6.69	0.1	33	11.73	11.59	to 12.04	10.65	10.30	to 10.75

EPA No. 13377

ATI No. 90-05-037-03

Sample Volume (Vs) = 100 mL

Extract Volume (V_e) = 5 mL

COMPOUND	Quant.	Peak	Calib	Conc. in		Conc/Dil	Sample	DB-1 column			DB-608 column		
	Column	Area	Factor	Extract	Ce (ug/mL)	Factor	Conc.	Observed	Window	Observed	Ret. Time	Window	
(A)	(CF)	(1)		(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time		Ret. Time	Window	
2,6-Dichlorophenol	DB-1		7.62E-05	<	0.05	1.0	<	3	5.34	to	5.68		
3,5-Dichlorophenol	DB-1		8.63E-05	<	0.05	1.0	<	3	6.10	to	6.49	5.26 to 5.61	
3,4-Dichlorophenol	DB-1	536	8.97E-05	<	0.05	1.0	<	3	7.41	7.02	to	7.45 4.84 to 5.23	
5-Chloroguaiacol	DB-1	853	2.08E-04		0.18	1.0	<	9	7.62	7.41	to	7.86 8.28 to 8.48	
2,3,6-Trichlorophenol	DB-1		6.40E-05	<	0.02	1.0	<	1	9.15	to	9.66	9.02 to 9.53	
4,6-Dichloroguaiacol	DB-1		1.05E-04	<	0.05	1.0	<	3	10.86	to	11.44	11.54 to 12.13	
3,5-Dichlorocatechol	DB-1	16407	1.20E-04		1.97	1.0	<	98	13.79	13.45	to	14.14 14.16 to 14.48	
6-Chlorovanillin	DB-1		2.80E-04	<	0.10	1.0	<	5	14.12	to	14.79	16.49 to 17.16	
3,4-Dichlorocatechol	DB-1		1.13E-04	<	0.50	1.0	<	25	14.89	to	15.59	16.47 to 17.18	
3,4,5-Trichloroguaiacol	DB-1		8.49E-05	<	0.02	1.0	<	1	16.89	to	17.62	16.46 to 17.19	
5,6-Dichlorovanillin	DB-1		1.18E-04	<	0.10	1.0	<	5	19.41	to	20.17	21.60 to 22.36	
Chlorosyringaldehyde	DB-1		3.54E-04	<	0.10	1.0	<	5	19.93	to	20.71	23.22 to 24.00	
3,4,5-Trichlorocatechol	DB-1		8.37E-05	<	0.05	1.0	<	3	21.00	to	21.76	22.43 to 23.19	
Trichlorosyringol	DB-1		7.95E-05	<	0.05	1.0	<	3	22.71	to	23.49	23.22 to 24.01	
2,6-Dichlorosyringaldehyde	DB-1		2.12E-04	<	0.25	1.0	<	13	26.22	to	27.05	28.16 to 28.99	
4-Chlorophenol	DB-608	441	1.43E-04		0.06	1.0	<	3	3.91	3.88	to	4.06 3.51 to 3.59	
2,4-Dichlorophenol	DB-608		1.00E-04	<	0.02	1.0	<	1	5.80	to	6.07	5.22 to 5.49	
2,4,6-Trichlorophenol	DB-608		1.01E-04	<	0.05	1.0	<	3	8.10	to	8.43	7.18 to 7.52	
4-Chloroguaiacol	DB-608		3.35E-04	<	0.10	1.0	<	5	7.25	to	7.57	8.09 to 8.41	
2,4,5-Trichlorophenol	DB-608	8102	1.01E-04		0.82	1.0	<	41	9.93	9.74	to	10.11 8.85 to 9.07	
4,5-Dichloroguaiacol	DB-608		8.49E-05	<	0.10	1.0	<	5	12.51	to	12.95	13.09 to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	<	0.05	1.0	<	3	13.99	to	14.45	13.50 to 13.96	
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	<	0.10	1.0	<	5	14.56	to	15.04	14.13 to 14.61	
4,5-Dichlorocatechol	DB-608	9107	1.70E-04		1.55	1.0	<	77	16.27	16.02	to	16.50 16.61 to 16.82	
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	<	0.05	1.0	<	3	18.08	to	18.60	19.74 to 20.26	
Pentachlorophenol	DB-608		5.86E-05	<	0.02	1.0	<	1	21.16	to	21.72	19.97 to 20.53	
Tetrachloroguaiacol	DB-608		7.31E-05	<	0.02	1.0	<	1	22.21	to	22.75	21.82 to 22.36	
Tetrachlorocatechol	DB-608	6254	8.26E-05		0.52	1.0	<	26	26.26	26.08	to	26.65 27.07 to 27.30	
3,4,5-Trichlorophenol	DB-608	7782	9.41E-05		0.73	1.0	<	37	11.81	11.59	to	12.04 10.54 to 10.75	

EPA No. 19378

ATI No. 90-05-037-04

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Column	Peak	Calib	Conc. in	Conc/Dil	Sample	DB-1 column			DB-608 column			
		Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Window	Ret. Time	Observed	Ret. Time	
(A)	(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time				
2,6-Dichlorophenol	DB-1	7.62E-05	<	0.05	1.0	<	3	5.34	to 5.68	5.26	to	5.61	
3,5-Dichlorophenol	DB-1	8.63E-05	<	0.05	1.0	<	3	6.10	to 6.49	4.84	to	5.23	
3,4-Dichlorophenol	DB-1	8.97E-05	<	0.05	1.0	<	3	7.02	to 7.45	6.30	to	6.73	
5-Chloroguaiacol	DB-1	2.08E-04	<	0.10	1.0	<	5	7.41	to 7.86	8.03	to	8.48	
2,3,6-Trichlorophenol	DB-1	6.40E-05	<	0.02	1.0	<	1	9.15	to 9.66	9.02	to	9.53	
4,6-Dichloroguaiacol	DB-1	1.05E-04	12113	1.27	1.0	64	10.93	10.86	to 11.44	11.86	11.54	to 12.13	
3,5-Dichlorocatechol	DB-1	1.20E-04	<	0.10	1.0	<	5	13.45	to 14.14	13.79	to	14.48	
6-Chlorovanillin	DB-1	2.80E-04	<	0.10	1.0	<	5	14.12	to 14.79	16.49	to	17.16	
3,4-Dichlorocatechol	DB-1	1.13E-04	<	0.50	1.0	<	25	14.89	to 15.59	16.47	to	17.18	
3,4,5-Trichloroguaiacol	DB-1	2549	8.49E-05	0.22	1.0	11	17.29	16.89	to 17.62	16.68	16.46	to 17.19	
5,6-Dichlorovanillin	DB-1	1.18E-04	<	0.10	1.0	<	5	19.41	to 20.17	21.60	to	22.36	
Chlorosyringaldehyde	DB-1	3.54E-04	<	0.10	1.0	<	5	19.93	to 20.71	23.22	to	24.00	
3,4,5-Trichlorocatechol	DB-1	8.37E-05	<	0.05	1.0	<	3	21.00	to 21.76	22.43	to	23.19	
Trichlorosyringol	DB-1	9909	7.95E-05	0.79	1.0	39	23.13	22.71	to 23.49	23.64	23.22	to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	1298	2.12E-04	0.28	1.0	14	26.65	26.22	to 27.05	28.57	28.16	to 28.99	
4-Chlorophenol	DB-608		1.43E-04	<	0.05	, 1.0	<	3	3.88	to 4.06	3.41	to	3.59
2,4-Dichlorophenol	DB-608	995	1.00E-04		0.10	1.0	5	5.93	5.80 to 6.07	5.39	5.22	to	5.49
2,4,6-Trichlorophenol	DB-608	2698	1.01E-04		0.27	1.0	14	8.28	8.10 to 8.43	7.37	7.18	to	7.52
4-Chloroguaiacol	DB-608		3.35E-04	<	0.10	1.0	<	5	7.25	to 7.57	8.09	to	8.41
2,4,5-Trichlorophenol	DB-608	5738	1.01E-04		0.58	1.0	29	9.95	9.74 to 10.11	8.85	8.70	to	9.07
4,5-Dichloroguaiacol	DB-608		8.49E-05	<	0.10	1.0	<	5	12.51	to 12.95	13.09	to	13.53
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	<	0.05	1.0	<	3	13.99	to 14.45	13.50	to	13.96
3,4,6-Trichloroguaiacol	DB-608	2136	1.24E-04		0.26	1.0	13	14.83	14.56 to 15.04	14.41	14.13	to	14.61
4,5-Dichlorocatechol	DB-608		1.70E-04	<	0.20	1.0	<	10	16.02	to 16.50	16.33	to	16.82
4,5,6-Trichloroguaiacol	DB-608	24506	1.02E-04		2.50	1.0	125	18.37	18.08 to 18.60	20.03	19.74	to	20.26
Pentachlorophenol	DB-608		5.86E-05	<	0.02	1.0	<	1	21.16	to 21.72	19.97	to	20.53
Tetrachloroguaiacol	DB-608		7.31E-05	<	0.02	1.0	<	1	22.21	to 22.75	21.82	to	22.36
Tetrachlorocatechol	DB-608		8.26E-05	<	0.05	1.0	<	3	26.08	to 26.65	26.73	to	27.30
3,4,5-Trichlorophenol	DB-608	6784	9.41E-05		0.64	1.0	32	11.82	11.59 to 12.04	10.54	10.30	to	10.75

EPA No. 19379

ATI No. 90-05-037-05

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area	Calib (CF)	Conc. in Extract	Conc/Dil Factor	Sample Conc.	-----DB-1 column----			-----DB-608 column----		
		(A)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)	Ret. Time	Window	Ret. Time
<hr/>												
2,6-Dichlorophenol	DB-1	6.02E-05	<	0.05	0.1	<	0.3		5.34	to	5.68	5.26
3,5-Dichlorophenol	DB-1	3577	6.97E-05	0.25	0.1		1.2	6.25	6.10	to	6.49	4.98
3,4-Dichlorophenol	DB-1	7.89E-05	<	0.05	0.1	<	0.3		7.02	to	7.45	6.30
5-Chloroguaiacol	DB-1	1.66E-04	<	0.10	0.1	<	0.5		7.41	to	7.86	8.03
2,3,6-Trichlorophenol	DB-1	5.07E-05	<	0.02	0.1	<	0.1		9.15	to	9.66	9.02
4,6-Dichloroguaiacol	DB-1	7.95E-05	<	0.05	0.1	<	0.3		10.86	to	11.44	11.54
3,5-Dichlorocatechol	DB-1	9.63E-05	<	0.10	0.1	<	0.5		13.45	to	14.14	13.79
6-Chlorovanillin	DB-1	2.22E-04	<	0.10	0.1	<	0.5		14.12	to	14.79	16.49
3,4-Dichlorocatechol	DB-1	9.14E-05	<	0.50	0.1	<	2.5		14.89	to	15.59	16.47
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	<	0.02	0.1	<	0.1		16.89	to	17.62	16.46
5,6-Dichlorovanillin	DB-1	9.38E-05	<	0.10	0.1	<	0.5		19.41	to	20.17	21.60
Chlorosyringaldehyde	DB-1	2.35E-04	<	0.10	0.1	<	0.5		19.93	to	20.71	23.22
3,4,5-Trichlorocatechol	DB-1	6.64E-05	<	0.05	0.1	<	0.3		21.00	to	21.76	22.43
Trichlorosyringol	DB-1	6.12E-05	<	0.05	0.1	<	0.3		22.71	to	23.49	23.22
2,6-Dichlorosyringaldehyde	DB-1	1.61E-04	<	0.25	0.1	<	1.3		26.22	to	27.05	28.16
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3		3.88	to	4.06	3.41
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1		5.80	to	6.07	5.22
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		8.10	to	8.43	7.18
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5		7.25	to	7.57	8.09
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3		9.74	to	10.11	8.70
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5		12.51	to	12.95	13.09
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3		13.99	to	14.45	13.50
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5		14.56	to	15.04	14.13
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0		16.02	to	16.50	16.33
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3		18.08	to	18.60	19.74
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1		21.16	to	21.72	19.97
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1		22.21	to	22.75	21.82
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3		26.08	to	26.65	26.73
3,4,5-Trichlorophenol	DB-608	99712	9.41E-05	9.38	0.1		47	11.79	11.59	to	12.04	10.73
										10.30	to	10.75

EPA No. 19380

ATI No. 90-05-037-06

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Quant.	Area	Factor	Extract	Factor	Conc.	Observed	Ret. Time	Window	Observed	Ret. Time	Window
Column	(A)	(CF)	(1)	Ce (ug/mL)	(2)	(X)	(3)	Cs (ug/L)	(4)			
2,6-Dichlorophenol	DB-1	6.02E-05	<	0.05	0.1	<	0.3	5.34	to 5.68	5.26	to 5.61	
3,5-Dichlorophenol	DB-1	6.97E-05	<	0.05	0.1	<	0.3	6.10	to 6.49	4.84	to 5.23	
3,4-Dichlorophenol	DB-1	7.89E-05	<	0.05	0.1	<	0.3	7.02	to 7.45	6.30	to 6.73	
5-Chloroguaiacol	DB-1	1.66E-04	<	0.10	0.1	<	0.5	7.41	to 7.86	8.03	to 8.48	
2,3,6-Trichlorophenol	DB-1	5.07E-05	<	0.02	0.1	<	0.1	9.15	to 9.66	9.02	to 9.53	
4,6-Dichloroguaiacol	DB-1	7.95E-05	<	0.05	0.1	<	0.3	10.86	to 11.44	11.54	to 12.13	
3,5-Dichlorocatechol	DB-1	9.63E-05	<	0.10	0.1	<	0.5	13.45	to 14.14	13.79	to 14.48	
6-Chlorovanillin	DB-1	2.22E-04	<	0.10	0.1	<	0.5	14.12	to 14.79	16.49	to 17.16	
3,4-Dichlorocatechol	DB-1	9.14E-05	<	0.50	0.1	<	2.5	14.89	to 15.59	16.47	to 17.18	
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	<	0.02	0.1	<	0.1	16.89	to 17.62	16.46	to 17.19	
5,6-Dichlorovanillin	DB-1	9.38E-05	<	0.10	0.1	<	0.5	19.41	to 20.17	21.60	to 22.36	
Chlorosyringaldehyde	DB-1	2.35E-04	<	0.10	0.1	<	0.5	19.93	to 20.71	23.22	to 24.00	
3,4,5-Trichlorocatechol	DB-1	6.64E-05	<	0.05	0.1	<	0.3	21.00	to 21.76	22.43	to 23.19	
Trichlorosyringol	DB-1	6.12E-05	<	0.05	0.1	<	0.3	22.71	to 23.49	23.22	to 24.01	
2,6-Dichlorosyringaldehyde	DB-1	1.61E-04	<	0.25	0.1	<	1.3	26.22	to 27.05	28.16	to 28.99	
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	<	0.3	3.88	to 4.06	3.41	to 3.59	
2,4-Dichlorophenol	DB-608	1.00E-04	<	0.02	0.1	<	0.1	5.80	to 6.07	5.22	to 5.49	
2,4,6-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	8.10	to 8.43	7.18	to 7.52	
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	<	0.5	7.25	to 7.57	8.09	to 8.41	
2,4,5-Trichlorophenol	DB-608	1.01E-04	<	0.05	0.1	<	0.3	9.74	to 10.11	8.70	to 9.07	
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	<	0.5	12.51	to 12.95	13.09	to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608	1.24E-04	<	0.05	0.1	<	0.3	13.99	to 14.45	13.50	to 13.96	
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	<	0.5	14.56	to 15.04	14.13	to 14.61	
4,5-Dichlorocatechol	DB-608	1.70E-04	<	0.20	0.1	<	1.0	16.02	to 16.50	16.33	to 16.82	
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	<	0.3	18.08	to 18.60	19.74	to 20.26	
Pentachlorophenol	DB-608	5.86E-05	<	0.02	0.1	<	0.1	21.16	to 21.72	19.97	to 20.53	
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	<	0.1	22.21	to 22.75	21.82	to 22.36	
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	<	0.3	26.08	to 26.65	26.73	to 27.30	
3,4,5-Trichlorophenol	DB-608	20999	9.41E-05		1.98	0.1	10	11.73	11.59 to 12.04	10.65	10.30 to 10.75	

EPA No. 19381

ATI No. 90-05-037-07

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Peak	Calib	Conc. in		Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Quant.	Area	Factor	Extract	Factor	Conc.	Observed		Observed			
	Column	(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time	Window	Ret. Time	Window		
2,6-Dichlorophenol	DB-1	732	6.02E-05	< 0.05	0.2	< 0.5	5.51	5.34 to 5.68	5.59	5.26 to 5.61		
3,5-Dichlorophenol	DB-1		6.97E-05	< 0.05	0.2	< 0.5		6.10 to 6.49		4.84 to 5.23		
3,4-Dichlorophenol	DB-1		7.89E-05	< 0.05	0.2	< 0.5		7.02 to 7.45		6.30 to 6.73		
5-Chloroguaiacol	DB-1	1230	1.66E-04	0.20	0.2	2.0	7.53	7.41 to 7.86	8.33	8.03 to 8.48		
2,3,6-Trichlorophenol	DB-1		5.07E-05	< 0.02	0.2	< 0.2		9.15 to 9.66		9.02 to 9.53		
4,6-Dichloroguaiacol	DB-1		7.95E-05	< 0.05	0.2	< 0.5		10.86 to 11.44		11.54 to 12.13		
3,5-Dichlorocatechol	DB-1	3960	9.63E-05	0.38	0.2	3.8	13.69	13.45 to 14.14	11.95	13.79 to 14.48		
6-Chlorovanillin	DB-1	1023	2.22E-04	0.23	0.2	2.3	14.26	14.12 to 14.79	14.26	16.49 to 17.16		
3,4-Dichlorocatechol	DB-1	2464	9.14E-05	0.23	0.2	2.3	15.16	14.89 to 15.59	16.74	16.47 to 17.18		
3,4,5-Trichloroguaiacol	DB-1		6.67E-05	< 0.02	0.2	< 0.2		16.89 to 17.62		16.46 to 17.19		
5,6-Dichlorovanillin	DB-1	8081	9.38E-05	0.76	0.2	7.6	19.70	19.41 to 20.17	21.83	21.60 to 22.36		
Chlorosyringaldehyde	DB-1		2.35E-04	< 0.10	0.2	< 1.0		19.93 to 20.71		23.22 to 24.00		
3,4,5-Trichlorocatechol	DB-1		6.64E-05	< 0.05	0.2	< 0.5		21.00 to 21.76		22.43 to 23.19		
Trichlorosyringol	DB-1		6.12E-05	< 0.05	0.2	< 0.5		22.71 to 23.49		23.22 to 24.01		
2,6-Dichlorosyringaldehyde	DB-1		1.61E-04	< 0.25	0.2	< 2.5		26.22 to 27.05		28.16 to 28.99		
4-Chlorophenol	DB-608		1.43E-04	< 0.05	0.2	< 0.5		3.88 to 4.06		3.41 to 3.59		
2,4-Dichlorophenol	DB-608		1.00E-04	< 0.02	0.2	< 0.2		5.80 to 6.07		5.22 to 5.49		
2,4,6-Trichlorophenol	DB-608	542	1.01E-04	0.05	0.2	0.5	8.20	8.10 to 8.43	7.43	7.18 to 7.52		
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.2	< 1.0		7.25 to 7.57		8.09 to 8.41		
2,4,5-Trichlorophenol	DB-608	3886	1.01E-04	0.39	0.2	3.9	9.87	9.74 to 10.11	8.93	8.70 to 9.07		
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.2	< 1.0		12.51 to 12.95		13.09 to 13.53		
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.2	< 0.5		13.99 to 14.45		13.50 to 13.96		
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	< 0.10	0.2	< 1.0		14.56 to 15.04		14.13 to 14.61		
4,5-Dichlorocatechol	DB-608		1.70E-04	< 0.20	0.2	< 2.0		16.02 to 16.50		16.33 to 16.82		
4,5,6-Trichloroguaiacol	DB-608		1.02E-04	< 0.05	0.2	< 0.5		18.08 to 18.60		19.74 to 20.26		
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.2	< 0.2		21.16 to 21.72		19.97 to 20.53		
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.2	< 0.2		22.21 to 22.75		21.82 to 22.36		
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.2	< 0.5		26.08 to 26.65		26.73 to 27.30		
3,4,5-Trichlorophenol	DB-608	29650	9.41E-05	2.79	0.2	28	11.73	11.59 to 12.04	10.63	10.30 to 10.75		

EPA No. 19382

ATI No. 90-05-037-08

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant. Column	Peak Area	Calib Factor	Conc. in Extract	Conc/Dil Factor	Sample Conc.	-----DB-1 column----			-----DB-608 column----		
		(A)	(CF) (1)	Ce (ug/mL) (2)	(X) (3)	Cs (ug/L) (4)	Ret. Time	Window	Observed	Ret. Time	Window	Observed
2,6-Dichlorophenol	DB-1	6.02E-05	< 0.05	0.2	< 0.5	5.34	to 5.68		5.26	to 5.61		
3,5-Dichlorophenol	DB-1	6.97E-05	< 0.05	0.2	< 0.5	6.10	to 6.49		4.84	to 5.23		
3,4-Dichlorophenol	DB-1	7.89E-05	< 0.05	0.2	< 0.5	7.02	to 7.45		6.30	to 6.73		
5-Chloroguaiacol	DB-1	1.66E-04	< 0.10	0.2	< 1.0	7.41	to 7.86		8.03	to 8.48		
2,3,6-Trichlorophenol	DB-1	1731	5.07E-05	0.09	0.2	0.9	9.42	9.15 to 9.66	9.25	9.02 to 9.53		
4,6-Dichloroguaiacol	DB-1	9985	7.95E-05	0.79	0.2	7.9	10.87	10.86 to 11.44	11.94	11.54 to 12.13		
3,5-Dichlorocatechol	DB-1	11720	9.63E-05	1.13	0.2	11.3	13.72	13.45 to 14.14	14.25	13.79 to 14.48		
6-Chlorovanillin	DB-1	797	2.22E-04	0.18	0.2	1.8	14.38	14.12 to 14.79	16.94	16.49 to 17.16		
3,4-Dichlorocatechol	DB-1	3538	9.14E-05	0.32	0.2	3.2	15.17	14.89 to 15.59	16.94	16.47 to 17.18		
3,4,5-Trichloroguaiacol	DB-1	2674	6.67E-05	0.18	0.2	1.8	17.18	16.89 to 17.62	16.94	16.46 to 17.19		
5,6-Dichlorovanillin	DB-1	9.38E-05	< 0.10	0.2	< 1.0	19.41	to 20.17		21.60	to 22.36		
Chlorosyringaldehyde	DB-1	2.35E-04	< 0.10	0.2	< 1.0	19.93	to 20.71		23.22	to 24.00		
3,4,5-Trichlorocatechol	DB-1	6.64E-05	< 0.05	0.2	< 0.5	21.00	to 21.76		22.43	to 23.19		
Trichlorosyringol	DB-1	6339	6.12E-05	0.39	0.2	3.9	23.02	22.71 to 23.49	23.74	23.22 to 24.01		
2,6-Dichlorosyringaldehyde	DB-1	2687	1.61E-04	0.43	0.2	4.3	26.73	26.22 to 27.05	28.67	28.16 to 28.99		
4-Chlorophenol	DB-608	692	1.43E-04	0.10	0.2	1.0	3.92	3.88 to 4.06	3.52	3.41 to 3.59		
2,4-Dichlorophenol	DB-608	1134	1.00E-04	0.11	0.2	1.1	5.90	5.80 to 6.07	5.42	5.22 to 5.49		
2,4,6-Trichlorophenol	DB-608	2339	1.01E-04	0.24	0.2	2.4	8.22	8.10 to 8.43	7.42	7.18 to 7.52		
4-Chloroguaiacol	DB-608		3.35E-04	< 0.10	0.2	< 1.0	7.25	to 7.57		8.09	to 8.41	
2,4,5-Trichlorophenol	DB-608	6515	1.01E-04	0.66	0.2	6.6	9.88	9.74 to 10.11	8.91	8.70 to 9.07		
4,5-Dichloroguaiacol	DB-608		8.49E-05	< 0.10	0.2	< 1.0	12.51	to 12.95		13.09	to 13.53	
2,3,4,6-Tetrachlorophenol	DB-608		1.24E-04	< 0.05	0.2	< 0.5	13.99	to 14.45		13.50	to 13.96	
3,4,6-Trichloroguaiacol	DB-608		1.24E-04	< 0.10	0.2	< 1.0	14.56	to 15.04		14.13	to 14.61	
4,5-Dichlorocatechol	DB-608	7389	1.70E-04	1.26	0.2	12.6	16.21	16.02 to 16.50	16.71	16.33 to 16.82		
4,5,6-Trichloroguaiacol	DB-608	12747	1.02E-04	1.30	0.2	13.0	18.08	18.08 to 18.60		19.74	to 20.26	
Pentachlorophenol	DB-608		5.86E-05	< 0.02	0.2	< 0.2	21.30	21.16 to 21.72	20.14	19.97 to 20.53		
Tetrachloroguaiacol	DB-608		7.31E-05	< 0.02	0.2	< 0.2	22.21	to 22.75		21.82	to 22.36	
Tetrachlorocatechol	DB-608		8.26E-05	< 0.05	0.2	< 0.5	26.08	to 26.65		26.73	to 27.30	
3,4,5-Trichlorophenol	DB-608	28385	9.41E-05	2.67	0.2	27	11.75	11.59 to 12.04	10.63	10.30 to 10.75		

EPA No. 19383

ATI No. 90-05-037-09

Sample Volume (Vs) = 100 mL

Extract Volume (Ve) = 5 mL

COMPOUND	Quant.	Peak	Calib	Conc. in	Conc/Dil	Sample	-----DB-1 column----			-----DB-608 column----		
	Column	Area	Factor	Extract	Factor	Conc.	Observed			Observed		
	(A)	(CF)	(1)	Ce (ug/mL)	(X)	(4)	Ret. Time	Window	Ret. Time	Window		
2,6-Dichlorophenol	DB-1	6.02E-05	<	0.05	0.1	< 0.3	5.34	to 5.68	5.26	to 5.61		
3,5-Dichlorophenol	DB-1	6.97E-05	<	0.05	0.1	< 0.3	6.10	to 6.49	4.84	to 5.23		
3,4-Dichlorophenol	DB-1	7.89E-05	<	0.05	0.1	< 0.3	7.02	to 7.45	6.30	to 6.73		
5-Chloroguaiacol	DB-1	1.66E-04	<	0.10	0.1	< 0.5	7.41	to 7.86	8.03	to 8.48		
2,3,6-Trichlorophenol	DB-1	5.07E-05	<	0.02	0.1	< 0.1	9.15	to 9.66	9.02	to 9.53		
4,6-Dichloroguaiacol	DB-1	17134	7.95E-05	1.36	0.1	6.8	10.87	10.86 to 11.44	11.93	11.54 to 12.13		
3,5-Dichlorocatechol	DB-1	14661	9.63E-05	1.41	0.1	7.1	13.73	13.45 to 14.14	14.25	13.79 to 14.48		
6-Chlorovanillin	DB-1	6356	2.22E-04	1.41	0.1	7.1	14.38	14.12 to 14.79	16.72	16.49 to 17.16		
3,4-Dichlorocatechol	DB-1	9.14E-05	<	0.50	0.1	< 2.5	14.89	to 15.59	16.47	to 17.18		
3,4,5-Trichloroguaiacol	DB-1	6.67E-05	<	0.02	0.1	< 0.1	16.89	to 17.62	16.46	to 17.19		
5,6-Dichlorovanillin	DB-1	9.38E-05	<	0.10	0.1	< 0.5	19.41	to 20.17	21.60	to 22.36		
Chlorosyringaldehyde	DB-1	4925	2.35E-04	1.16	0.1	5.8	26.26	19.93 to 20.71	23.73	23.22 to 24.00		
3,4,5-Trichlorocatechol	DB-1	6.64E-05	<	0.05	0.1	< 0.3	21.00	to 21.76	22.43	to 23.19		
Trichlorosyringol	DB-1	8674	6.12E-05	0.53	0.1	2.7	23.03	22.71 to 23.49	23.73	23.22 to 24.01		
2,6-Dichlorosyringaldehyde	DB-1	7300	1.61E-04	1.18	0.1	5.9	26.58	26.22 to 27.05	26.67	28.16 to 28.99		
4-Chlorophenol	DB-608	1.43E-04	<	0.05	0.1	< 0.3	3.88	to 4.06	3.41	to 3.59		
2,4-Dichlorophenol	DB-608	1788	1.00E-04	0.18	0.1	0.9	5.92	5.80 to 6.07	5.42	5.22 to 5.49		
2,4,6-Trichlorophenol	DB-608	1880	1.01E-04	0.19	0.1	0.9	8.22	8.10 to 8.43	7.42	7.18 to 7.52		
4-Chloroguaiacol	DB-608	3.35E-04	<	0.10	0.1	< 0.5	7.25	to 7.57	8.09	to 8.41		
2,4,5-Trichlorophenol	DB-608	8465	1.01E-04	0.85	0.1	4.3	9.89	9.74 to 10.11	8.91	8.70 to 9.07		
4,5-Dichloroguaiacol	DB-608	8.49E-05	<	0.10	0.1	< 0.5	12.51	to 12.95	13.09	to 13.53		
2,3,4,6-Tetrachlorophenol	DB-608	4221	1.24E-04	0.52	0.1	2.6	14.38	13.99 to 14.45	13.65	13.50 to 13.96		
3,4,6-Trichloroguaiacol	DB-608	1.24E-04	<	0.10	0.1	< 0.5	14.56	to 15.04	14.13	to 14.61		
4,5-Dichlorocatechol	DB-608	12312	1.70E-04	2.09	0.1	10.5	16.22	16.02 to 16.50	16.72	16.33 to 16.82		
4,5,6-Trichloroguaiacol	DB-608	1.02E-04	<	0.05	0.1	< 0.3	18.08	to 18.60	19.74	to 20.26		
Pentachlorophenol	DB-608	11048	5.86E-05	0.65	0.1	3.2	21.31	21.16 to 21.72	20.14	19.97 to 20.53		
Tetrachloroguaiacol	DB-608	7.31E-05	<	0.02	0.1	< 0.1	22.21	to 22.75	21.82	to 22.36		
Tetrachlorocatechol	DB-608	8.26E-05	<	0.05	0.1	< 0.3	26.08	to 26.65	26.73	to 27.30		
3,4,5-Trichlorophenol	DB-608	79870	9.41E-05	7.52	0.1	38	11.76	11.59 to 12.04	10.63	10.30 to 10.75		

Table 8 Matrix Spike Recoveries

COMPOUND	Quanti-tation Column	Spike Conc. ug/L	Sample: 90-05-031-08					
			Sample Conc. ug/L	Conc. Found ug/L	MS Percent Recovery	Conc. Found ug/L	MSD Percent Recovery	Percent Difference
,6-Dichlorophenol	DB-1	50	< 0.3	53	106	52	105	1
,5-Dichlorophenol	DB-1	50	< 0.3	49	98	52	105	6
,4-Dichlorophenol	DB-1	50	< 0.3	52	104	50	101	3
-Chloroquaiacol	DB-1	100	< 0.5	100	100	106	106	6
,3,6-Trichlorophenol	DB-1	20	< 0.1	20	100	21	105	5
,6-Dichloroguaiacol	DB-1	50	1.2	52	102	55	111	6
,5-Dichlorocatechol	DB-1	50	1.8	54	104	55	109	1
-Chlorovanillin	DB-1	100	1.8	81	79	82	82	1
,4-Dichlorocatechol	DB-1	100	1.1	100	99	100	100	0
,4,5-Trichloroguaiacol	DB-1	50	< 0.1	22	44	22	45	1
,6-Dichlorovanillin	DB-1	100	< 0.5	81	81	76	76	6
Chlorosyringaldehyde	DB-1	100	< 0.5	85	85	82	82	4
,4,5-Trichlorocatechol	DB-1	50	< 0.3	58	116	56	112	4
Trichlorosyringol	DB-1	50	0.4	52	103	50	100	4
,6-Dichlorosyringaldehyde	DB-1	250	1.1	219	87	198	79	10
Sample: 90-05-033-01								
,6-Dichlorophenol	DB-1	50	0.4	49	97	53	107	9
,5-Dichlorophenol	DB-1	50	< 0.3	48	96	54	108	12
,4-Dichlorophenol	DB-1	50	< 0.3	55	110	57	114	4
-Chloroquaiacol	DB-1	100	< 0.5	97	97	108	108	11
,3,6-Trichlorophenol	DB-1	20	< 0.1	20	100	20	102	2
,6-Dichloroguaiacol	DB-1	50	10.9	60	98	66	132	9
,5-Dichlorocatechol	DB-1	50	< 0.5	51	102	56	112	9
-Chlorovanillin	DB-1	100	0.5	77	77	83	83	7
,4-Dichlorocatechol	DB-1	100	< 2.5	100	100	107	107	7
,4,5-Trichloroguaiacol	DB-1	50	0.5	20	39	20	39	1
,6-Dichlorovanillin	DB-1	100	< 0.5	83	83	80	80	4
Chlorosyringaldehyde	DB-1	100	2.0	79	77	70	70	12
,4,5-Trichlorocatechol	DB-1	50	< 0.3	51	102	53	106	3
Trichlorosyringol	DB-1	50	< 0.3	50	100	47	93	7
,6-Dichlorosyringaldehyde	DB-1	250	< 1.3	199	80	189	75	5
Sample: 90-05-037-06								
,6-Dichlorophenol	DB-1	50	< 0.3	51	102	49	99	3
,5-Dichlorophenol	DB-1	50	< 0.3	50	100	51	101	1
,4-Dichlorophenol	DB-1	50	< 0.3	49	98	48	96	2
-Chloroquaiacol	DB-1	100	< 0.5	100	100	98	98	2
,3,6-Trichlorophenol	DB-1	20	< 0.1	20	100	19	95	5
,6-Dichloroguaiacol	DB-1	50	< 0.3	50	100	51	102	2
,5-Dichlorocatechol	DB-1	50	< 0.5	51	102	49	98	4
-Chlorovanillin	DB-1	100	< 0.5	83	83	77	77	8
,4-Dichlorocatechol	DB-1	100	< 2.5	102	102	96	96	6
,4,5-Trichloroguaiacol	DB-1	50	< 0.1	20	40	20	39	2
,6-Dichlorovanillin	DB-1	100	< 0.5	79	79	78	78	1
Chlorosyringaldehyde	DB-1	100	< 0.5	82	82	73	73	12
,4,5-Trichlorocatechol	DB-1	50	< 0.3	51	102	48	95	7
Trichlorosyringol	DB-1	50	< 0.3	48	96	48	96	0
,6-Dichlorosyringaldehyde	DB-1	250	< 1.3	206	82	195	78	5

Table 9 Run Chronology (continued)

Sample	Date Received	Date Extracted	Column: DB-1		Column: DB-608	
			Date Analyzed	Time	Date Analyzed	Time
d A 1:4 Calibr. Verification	N/A	05-25-90	06-10-90	22:53	06-09-90	05:38
d B 1:4 Calibr. Verification	N/A	05-25-90	06-10-90	23:29	06-09-90	06:15
-05-033-10 (100:0.5mL)	05-18-90	05-21-90	06-11-90	00:06	06-09-90	06:52
-05-037-01 (100:0.5mL)	05-19-90	05-29-90	06-11-90	00:42	06-09-90	07:29
-05-037-02 (100:0.5mL)	05-19-90	05-29-90	06-11-90	01:19	06-09-90	08:34
-05-037-05 (100:0.5mL)	05-19-90	05-29-90	06-11-90	01:55	06-09-90	10:56
-05-037-06 (100:0.5mL)	05-19-90	05-29-90	06-11-90	02:32	06-09-90	11:34
-05-037-07 (100:1mL)	05-19-90	05-29-90	06-11-90	03:08	06-09-90	12:10
-05-037-08 (100:1mL)	05-19-90	05-29-90	06-11-90	03:44	06-09-90	12:47
-05-037-09 (100:0.5mL)	05-19-90	05-29-90	06-11-90	04:23	06-09-90	13:23
d A 1:4 Calibr. Verification	N/A	05-25-90	06-11-90	05:34	06-09-90	15:44
d B 1:4 Calibr. Verification	N/A	05-25-90	06-11-90	06:11	06-09-90	16:23
libration std A High, curve 3	N/A	05-25-90	06-12-90	17:55	06-12-90	17:10
libration std A 1:2, curve 3	N/A	05-25-90	06-12-90	18:32	06-12-90	17:55
libration std A 1:4, curve 3	N/A	05-25-90	06-12-90	19:10	06-12-90	18:32
libration std A 1:20, curve 3	N/A	05-25-90	06-12-90	19:47	06-12-90	19:10
libration std B High, curve 3	N/A	05-25-90	06-12-90	20:24	06-12-90	19:47
libration std B 1:2, curve 3	N/A	05-25-90	06-12-90	21:01	06-12-90	20:24
libration std B 1:4, curve 3	N/A	05-25-90	06-12-90	21:39	06-12-90	21:01
libration std B 1:20, curve 3	N/A	05-25-90	06-12-90	22:16	06-12-90	21:39
ink	N/A	06-12-90	06-12-90	22:53	06-12-90	22:16
-05-031-08MS A (100:5mL)	05-17-90	06-12-90	06-13-90	00:08	06-12-90	23:30
-05-033-01MS A (100:5mL)	05-18-90	06-12-90	06-13-90	00:45	06-13-90	00:08
-05-037-06MS A (100:5mL)	05-19-90	06-12-90	06-13-90	01:22	06-13-90	00:45
libration std A High (2.5:1)	N/A	05-25-90	06-13-90	04:28	06-13-90	03:51
libration std B High (2.5:1)	N/A	05-25-90	06-13-90	05:05	06-13-90	04:28
i A 1:4 Calibr. Verification	N/A	05-25-90	06-13-90	05:43	06-13-90	05:05
i B 1:4 Calibr. Verification	N/A	05-25-90	06-13-90	06:20	06-13-90	05:43
libration std A High, curve 4	N/A	05-25-90	06-24-90	13:36	06-24-90	12:54
libration std A 1:2, curve 4	N/A	05-25-90	06-24-90	14:13	06-24-90	13:36
libration std A 1:4, curve 4	N/A	05-25-90	06-24-90	14:51	06-24-90	14:13
libration std A 1:20, curve 4	N/A	05-25-90	06-24-90	15:28	06-24-90	14:51
libration std B High, curve 4	N/A	05-25-90	06-24-90	16:05	06-24-90	15:28
libration std B 1:2, curve 4	N/A	05-25-90	06-24-90	16:42	06-24-90	16:05
libration std B 1:4, curve 4	N/A	05-25-90	06-24-90	17:20	06-24-90	16:42
libration std B 1:20, curve 4	N/A	05-25-90	06-24-90	17:57	06-24-90	17:20
ink	N/A	06-22-90	06-24-90	18:34	06-24-90	17:57
-05-031-08MSD A (100:5mL)	05-17-90	06-22-90	06-24-90	19:49	06-24-90	19:11
-05-033-01MSD A (100:5mL)	05-18-90	06-22-90	06-24-90	20:26	06-24-90	19:49
-05-037-06MSD A (100:5mL)	05-19-90	06-22-90	06-24-90	21:03	06-24-90	20:26
i A 1:4 Calibr. Verification	N/A	05-25-90	06-25-90	00:09	06-24-90	23:32
i B 1:4 Calibr. Verification	N/A	05-25-90	06-25-90	00:46	06-25-90	00:09

Table 10 Calibration Data Curve 1 (continued)

Compound	Conc (ug/mL)	Peak Area	DB-608		
			Calib Factor	Mean Calib Factor	%RSD of Calib Factors
6-dichlorovanillin	4.00	33439	1.20E-04	1.18E-04	1.6
	2.00	16806	1.19E-04		
	1.00	8360	1.20E-04		
	0.20	1737	1.15E-04		
chlorosyringaldehyde	4.00	12283	3.26E-04	3.54E-04	6.2
	2.00	5589	3.58E-04		
	1.00	2639	3.79E-04		
	0.20	523			
4,5-trichlorocatechol	2.00	23962	8.35E-05	8.37E-05	1.0
	1.00	11983	8.35E-05		
	0.50	5874	8.51E-05		
	0.10	1208	8.28E-05		
4-chlorosyringol	2.00	24468	8.17E-05	7.95E-05	1.8
	1.00	12845	7.79E-05		
	0.50	6301	7.94E-05		
	0.10	1262	7.92E-05		
6-dichlorosyringaldehyde	10.00	45598	2.19E-04	2.12E-04	2.1
	5.00	24045	2.08E-04		
	2.50	11872	2.11E-04		
	0.50	2395	2.09E-04		
DB-608					
4,5-trichlorophenol	2.00	19710	1.85E-04	9.41E-05	5.4
	1.00	11170	2.12E-04		
	0.50	5211	2.57E-04		
	0.10	1120	4.15E-04		
4-chlorophenol	2.00	13688	1.46E-04	1.43E-04	3.8
	1.00	7282	1.37E-04		
	0.50	3644	1.37E-04		
	0.10	668	1.50E-04		
4-dichlorophenol	0.80	8258	9.69E-05	1.00E-04	10.9
	0.40	4392	9.11E-05		
	0.20	2135	9.37E-05		
	0.04	337	1.19E-04		
4,6-trichlorophenol	2.00	18614	1.07E-04	1.01E-04	6.5
	1.00	10631	9.41E-05		
	0.50	5250	9.52E-05		
	0.10	924	1.08E-04		
4-chloroguaiacol	4.00	12659	3.16E-04	3.35E-04	16.4
	2.00	6804	2.94E-04		
	1.00	3317	3.01E-04		
	0.20	466	4.29E-04		

Table 10 Calibration Data Curve 3 (continued)

Compound	Conc (ug/mL)	Peak Area	DB-608		
			Calib Factor	Mean Calib Factor	
β -dichlorovanillin	4.00	51224	7.81E-05	7.72E-05	3.3
	2.00	24726	8.09E-05		
	1.00	13192	7.58E-05		
	0.20	2698	7.41E-05		
lorsyringealdehyde	4.00	18660	2.14E-04	2.19E-04	4.4
	2.00	8587	2.33E-04		
	1.00	4748	2.11E-04		
	0.20	944			
4,5-trichlorocatechol	2.00	34558	5.79E-05	5.83E-05	4.1
	1.00	16108	6.21E-05		
	0.50	8647	5.78E-05		
	0.10	1801	5.55E-05		
ichlorosyringol	2.00	37624	5.32E-05	5.13E-05	6.2
	1.00	18320	5.46E-05		
	0.50	9755	5.13E-05		
	0.10	2167	4.61E-05		
β -dichlorosyringaldehyde	10.00	68510	1.46E-04	1.44E-04	5.0
	5.00	32484	1.54E-04		
	2.50	17633	1.42E-04		
	0.50	3727	1.34E-04		
DB-608					
4,5-trichlorophenol	2.00	23249	8.60E-05	9.41E-05	5.4
	1.00	11866	8.43E-05		
	0.50	6598	7.58E-05		
	0.10	1322	7.56E-05		
chlorophenol	2.00	17999	1.11E-04	1.08E-04	2.7
	1.00	9026	1.11E-04		
	0.50	4797	1.04E-04		
	0.10	940	1.06E-04		
4-dichlorophenol	0.80	10722	7.46E-05	7.16E-05	3.6
	0.40	5471	7.31E-05		
	0.20	2823	7.08E-05		
	0.04	590	6.78E-05		
1,6-trichlorophenol	2.00	25442	7.86E-05	7.33E-05	5.6
	1.00	13257	7.54E-05		
	0.50	6961	7.18E-05		
	0.10	1481	6.75E-05		
chloroguaiacol	4.00	16907	2.37E-04	2.21E-04	5.4
	2.00	8851	2.26E-04		
	1.00	4634	2.16E-04		
	0.20	977	2.05E-04		

Table 10 Calibration Data Curve 4

Compound	Conc ($\mu\text{g/mL}$)	Peak Area	DB-1		%RSD of Calib Factors
			Calib Factor	Mean Calib Factor	
,6-dichlorophenol	2.00	13493	1.48E-04	1.56E-04	5.6
	1.00	6711	1.49E-04		
	0.50	3198	1.56E-04		
	0.10	588	1.70E-04		
,5-dichlorophenol	2.00	11924	1.68E-04	1.79E-04	7.8
	1.00	5931	1.69E-04		
	0.50	2818	1.77E-04		
	0.10	494	2.02E-04		
,4-dichlorophenol	2.00	11360	1.76E-04	1.86E-04	6.0
	1.00	5574	1.79E-04		
	0.50	2698	1.85E-04		
	0.10	488	2.05E-04		
-chloroguaiacol	4.00	10391	3.85E-04	4.30E-04	13.0
	2.00	4935	4.05E-04		
	1.00	2469	4.05E-04		
	0.20	380	5.26E-04		
,3,6-trichlorophenol	0.80	6962	1.15E-04	1.22E-04	5.4
	0.40	3409	1.17E-04		
	0.20	1636	1.22E-04		
	0.04	303	1.32E-04		
,6-dichloroguaiacol	2.00	10431	1.92E-04	2.04E-04	6.3
	1.00	5157	1.94E-04		
	0.50	2449	2.04E-04		
	0.10	446	2.24E-04		
,5-dichlorocatechol	2.00	9183	2.18E-04	2.35E-04	6.1
	1.00	4310	2.32E-04		
	0.50	2143	2.33E-04		
	0.10	388	2.58E-04		
-chlorovanillin	4.00	7788	5.14E-04	5.54E-04	7.6
	2.00	3744	5.34E-04		
	1.00	1841	5.43E-04		
	0.20	320	6.25E-04		
,4-dichlorocatechol	4.00	18120	2.21E-04	2.27E-04	1.8
	2.00	8812	2.27E-04		
	1.00	4307	2.32E-04		
	0.20	883	2.27E-04		
,4,5-trichloroguaiacol	0.80	5726	1.40E-04	1.45E-04	5.5
	0.40	2689	1.49E-04		
	0.20	1479	1.35E-04		
	0.04	257	1.56E-04		

Table 10 Calibration Data Curve 4 (continued)

Compound	Conc (ug/mL)	DB-1			%RSD of Calib Factors
		Peak Area	Calib Factor	Mean Calib Factor	
,6-dichlorovanillin	4.00	18023	2.22E-04	2.31E-04	2.6
	2.00	8498	2.35E-04		
	1.00	4211	2.37E-04		
	0.20	865	2.31E-04		
chlorosyringealdehyde	4.00	6746	5.93E-04	6.46E-04	6.8
	2.00	3107	6.44E-04		
	1.00	1427	7.01E-04		
	0.20	364			
,4,5-trichlorocatechol	2.00	12702	1.57E-04	1.69E-04	4.0
	1.00	5872	1.70E-04		
	0.50	2895	1.73E-04		
	0.10	571	1.75E-04		
richlorosyringol	2.00	14112	1.42E-04	1.47E-04	4.9
	1.00	6510	1.54E-04		
	0.50	3215	1.56E-04		
	0.10	721	1.39E-04		
,6-dichlorosyringaldehyde	10.00	24816	4.03E-04	4.21E-04	2.8
	5.00	11824	4.23E-04		
	2.50	5737	4.36E-04		
	0.50	1184	4.22E-04		
DB-608					
,4,5-trichlorophenol	2.00	8696	2.30E-04	2.38E-04	7.5
	1.00	4354	2.30E-04		
	0.50	2245	2.23E-04		
	0.10	373	2.68E-04		
-chlorophenol	2.00	5867	3.41E-04	3.23E-04	3.9
	1.00	3075	3.25E-04		
	0.50	1637	3.05E-04		
	0.10	311	3.22E-04		
,4-dichlorophenol	0.80	3468	2.31E-04	2.29E-04	9.5
	0.40	1832	2.18E-04		
	0.20	980	2.04E-04		
	0.04	152	2.63E-04		
,4,6-trichlorophenol	2.00	8172	2.45E-04	2.30E-04	4.4
	1.00	4303	2.32E-04		
	0.50	2285	2.19E-04		
	0.10	450	2.22E-04		
-chloroguaiacol	4.00	5552	7.20E-04	7.73E-04	20.3
	2.00	3011	6.64E-04		
	1.00	1505	6.64E-04		
	0.20	192	1.04E-03		

Table 10 Calibration Data Curve 4 (continued)

Compound	Conc (ug/mL)	DB-608			%RSD of Calib Factors
		Peak Area	Calib Factor	Mean Calib Factor	
2,4,5-trichlorophenol	2.00	8515	2.35E-04	2.16E-04	6.8
	1.00	4490	2.23E-04		
	0.50	2386	2.10E-04		
	0.10	511	1.96E-04		
2,5-dichloroguaiacol	2.00	10439	1.92E-04	1.83E-04	4.8
	1.00	5354	1.87E-04		
	0.50	2682	1.86E-04		
	0.10	594	1.68E-04		
2,3,4,6-tetrachlorophenol	2.00	7073	2.83E-04	3.06E-04	4.7
	1.00	3268	3.06E-04		
	0.50	1574	3.18E-04		
	0.10	314	3.18E-04		
2,4,6-trichloroguaiacol	2.00	7031	2.84E-04	2.90E-04	3.7
	1.00	3367	2.97E-04		
	0.50	1651	3.03E-04		
	0.10	363	2.75E-04		
2,5-dichlorocatechol	4.00	10606	3.77E-04	3.67E-04	3.4
	2.00	5399	3.70E-04		
	1.00	2894	3.46E-04		
	0.20	534	3.75E-04		
2,5,6-trichloroguaiacol	0.80	3500	2.29E-04	2.43E-04	5.7
	0.40	1661	2.41E-04		
	0.20	752	2.66E-04		
	0.04	168	2.38E-04		
Benzenechlorophenol	0.40	2968	1.35E-04	1.35E-04	11.5
	0.20	1519	1.32E-04		
	0.10	631	1.58E-04		
	0.02	174	1.15E-04		
Benzenechloroguaiacol	0.80	4441	1.80E-04	1.84E-04	8.4
	0.40	2470	1.62E-04		
	0.20	1046	1.91E-04		
	0.04	196	2.04E-04		
Benzenechlorocatechol	2.00	9753	2.05E-04	2.21E-04	10.1
	1.00	4975	2.01E-04		
	0.50	2280	2.19E-04		
	0.10	388	2.58E-04		

Table 11 Calibration Verification

COMPOUND	Quanti-fication Column	Percent Deviation						
		1	2	3	4	5	6	7
MIX A								
2,6-Dichlorophenol	DB-1	18	21	9	9	10	10	11
2,5-Dichlorophenol	DB-1	22	25	9	18	16	16	12
2,4-Dichlorophenol	DB-1	23	23	10	20	20	20	7
3-Chloroguaiacol	DB-1	19	21	4	24	19	19	8
2,3,6-Trichlorophenol	DB-1	26	27	10	20	14	14	5
1,6-Dichloroguaiacol	DB-1	24	23	14	14	15	15	10
2,4,5-Trichlorophenol	DB-608	5	7	15	17	33	15	7
2,5-Dichlorocatechol	DB-1	25	27	14	15	16	16	1
6-Chlorovanillin	DB-1	25	27	12	20	19	19	5
3,4-Dichlorocatechol	DB-1	18	22	11	15	13	13	4
2,4,5-Trichloroguaiacol	DB-1	34	33	19	21	21	21	5
2,6-Dichlorovanillin	DB-1	23	25	9	16	16	16	3
Chlorosyringaldehyde	DB-1	19	20	10	10	10	10	2
2,4,5-Trichlorocatechol	DB-1	25	25	16	12	5	5	4
Trichlorosyringol	DB-1	22	23	8	13	11	11	7
2,6-Dichlorosyringaldehyde	DB-1	22	24	9	8	7	7	5
MIX B								
4-Chlorophenol	DB-608	2	9	14	15	14	15	10
2,4-Dichlorophenol	DB-608	1	12	20	13	10	25	10
2,4,6-Trichlorophenol	DB-608	4	12	20	9	7	26	11
4-Chloroguaiacol	DB-608	13	16	28	11	7	36	8
2,4,5-Trichlorophenol	DB-608	6	14	24	9	8	30	10
4,5-Dichloroguaiacol	DB-608	5	10	27	17	9	26	18
2,3,4,6-Tetrachlorophenol	DB-608	6	3	19	13	4	15	4
3,4,6-Trichloroguaiacol	DB-608	2	6	9	18	7	21	7
4,5-Dichlorocatechol	DB-608	6	13	9	6	6	19	0
4,5,6-Trichloroguaiacol	DB-608	5	6	6	6	10	20	13
Pentachlorophenol	DB-608	4	5	0	24	14	13	4
Tetrachloroguaiacol	DB-608	0	1	5	25	16	14	11
Tetrachlorocatechol	DB-608	12	21	4	3	5	7	3