# GC Application ID No.: 15884

#### EPA 1613 Polychlorinated Dibenzo-p-dioxins on ZB-5MS

Column:	Zebron™ ZB-5MS, GC Cap. Column 60 m x 0.25 mm x 0.25 µm, Ea
Phase:	5% Phenyl-Arylene 95% Dimethylpolysiloxane
Dimensions:	60 meters x 0.25 mm x 0.25 μm
Order No:	7KG-G010-11
<b>Oven Profile:</b>	120°C for 1 min to 220°C at 20°C/min for 16 min to 235°C at 5°C/min for 7 min to 300°C at 5°C/min for 15 min
<b>Carrier Gas:</b>	Constant Flow Helium, 26 cm/sec
Injection:	Splitless :1 2 µL @ 250°C
Detection:	High Res Mass Spec (HRMS) (290°C)
Analyst Note:	Notes: Flow 26cm/sec @ 200°C. Only selected chromatograms shown below. For the complete set of Single Ion Chromatograms, showing both Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans, please contact your Phenomenex Technical Consultant.

Products used in this application:



m/z 319.8965 m/z 355.8546 35 min 37.5 รก 38.5 39.5 40.5 min m/z 389.8156 m/z 423.7767 13 <sup>14</sup> 43.5 44.5 45.5 48.5 49.5 50.5 

Mass Chromatograms are courtesy of V.N. Fishman, G.D. Martin, and L.L. Lamparski, The Dow Chemical Company,

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#### **ANALYTES:**

- 1 1,3,6,8-TCDD
- 2 1,2,3,7/1,2,3,8-TCDD
- 3 1,2,3,9-TCDD
- 4 2,3,7,8-TCDD
- 5 1,2,8,9-TCDD
- 1,2,4,6,8/1,2,4,7,9-PnCDD 6
- 7 1,2,3,7,8-PnCDD
- 8 1,2,3,6,7-PnCDD
- **9** 1,2,3,8,9-PnCDD
- **10** 1,2,4,6,7,9/1,2,4,6,8,9-HxCDD
- **11** 1,2,3,4,7,8-HxCDD
- **12** 1,2,3,6,7,8-HxCDD
- **13** 1,2,3,4,6,7-HxCDD
- 14 1,2,3,7,8,9-HxCDD
- **15** 1,2,3,4,6,7,9-HpCDD
- **16** 1,2,3,4,6,7,8-HpCDD

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