

GC Column Selection by EPA Specifications

Listed below are a few of our recommended Zebron columns for EPA analyses. Other possible columns can also be used for these analyses. Please contact Phenomenex for your specific GC column needs.

EPA Drinking Water Test Methods

Method	Description	Phenomenex Recommendation	Page
501.3	Trihalomethanes by GC/MS and SIM	ZB-624	106
502.2	Volatile Halogenated Organics in Water by Purge & Trap GC/PID/ELCD	ZB-624	106
503.1	Volatile Aromatics & Unsaturated Organics by Purge & Trap GC	ZB-624	106
504.1	1,2-Dibromoethane (EDB), 1,2-Dibromo-3-chloropropane (DBCP), and 1,2,3-Trichloropropane (123TCP) by GC/ECD	ZB-1, ZB-624	89, 106
505	Organohalide Pesticides & Aroclors by GC/ECD	ZB-1, ZB-MR-1, ZB-MR-2	89, 112-113
507	Nitrogen & Phosphorus Containing Pesticides in Water by GC/NPD	ZB-MR-1, ZB-MR-2, ZB-35HT, ZB-XLB-HT	112-113, 101, 99
508	Chlorinated Pesticides in Water by GC/ECD	ZB-MR-1, ZB-MR-2, ZB-35HT, ZB-XLB-HT	112-113, 101, 99
513	2, 3, 7, 8-Tetrachlorodibenzo-p-dioxin by GC w/ High Resolution Mass Spec	ZB-5ms	95
515.2	Determination of Chlorinated Acids in Water Using Liquid-Solid Extraction & GC/ECD	ZB-5MSi, ZB-5ms, ZB-1701P, ZB-35HT, ZB-XLB-HT	94, 95, 108, 101, 99
524.2	Measurement of Purgeable Organic Compounds in Water by Purge & Trap Capillary Column GC/MS	ZB-624	106
525	Organic Compounds in Drinking Water by Liquid-Solid Extraction and Capillary Column GC/MS	ZB-SemiVolatiles, ZB-5MSi, ZB-5ms	109-111, 94, 95
551.1	Chlorinated Solvents & Disinfection By-Products in Drinking Water by Liquid-Liquid Extraction & GC/ECD	ZB-35	100
552.2	Haloacetic Acids & Dalapon in Drinking Water by Ion-Exchange Liquid-Solid Extraction & GC/ECD	ZB-5ms, ZB-1701, ZB-35HT, ZB-XLB-HT	95, 107, 101, 99

EPA Waste Water Test Methods

Method	Description	Phenomenex Recommendation	Page
601	Purgeable Halocarbons	ZB-624	106
602	Purgeable Aromatics	ZB-624	106
603	Acrolein & Acrylonitrile	ZB-624	106
604	Phenols	ZB-5MSi, ZB-5ms	94, 95
606	Phthalate Esters	ZB-5MSi, ZB-5ms	94, 95
607	Nitrosamines	ZB-5MSi, ZB-5ms, ZB-35, ZB-1701P, ZB-XLB-HT	94, 95, 100, 108, 99
608	Organochlorine Pesticides & PCBs	ZB-MR-1, ZB-MR-2, ZB-XLB-HT, ZB-35HT	112-113, 99, 101
609	Nitroaromatics & Isophorone	ZB-5MSi, ZB-5ms	94, 95
610	Polynuclear Aromatic Hydrocarbons	ZB-SemiVolatiles, ZB-5ms, ZB-35	109-111, 95, 100
611	Haloethers	ZB-5MSi, ZB-5ms	94, 95
612	Chlorinated Hydrocarbons	ZB-5MSi, ZB-5ms	94, 95
613	2,3,7,8-Tetrachlorodibenzo-p-dioxin	ZB-5ms	95
615	Chlorinated Herbicides	ZB-5ms, ZB-5MSi, ZB-XLB-HT, ZB-35HT	95, 94, 99, 101
619	Triazine Herbicides	ZB-5ms, ZB-50, ZB-MR-1, ZB-MR-2, ZB-5MSi, ZB-XLB-HT	95, 102, 112-113, 94, 99
622	Organophosphorus Pesticides	ZB-5ms, ZB-35, ZB-MR-1, ZB-MR-2, ZB-5MSi, ZB-XLB-HT	95, 102, 112-113, 94, 99
624	Purgeable Volatiles	ZB-624	106
625	Base/Neutral and Acids	ZB-SemiVolatiles, ZB-5MSi, ZB-5ms, ZB-XLB-HT	109-111, 94, 95, 99
1618	Organophosphorus Pesticides, Organohalide Pesticides, Phenoxyacid Herbicides	ZB-XLB-HT, ZB-MR-1, ZB-MR-2, ZB-35HT	99, 112-113, 101
1624	Volatile Organic Compounds by Isotope Dilution GC/MS	ZB-624	106
1625	Semi-volatile Organic Compounds by Isotope Dilution GC/MS	ZB-SemiVolatiles, ZB-5ms	109-111, 95
1653	Chlorinated Phenols in Waste Water by In-Situ Acetylation and GC/MS	ZB-5ms	95

EPA Solid Waste Test Methods

Method	Description	Phenomenex Recommendation	Page
8010B	Halogenated Volatile Organics	ZB-624	106
8015C	Nonhalogenated Volatile Organics	ZB-5MSi, ZB-5HT, ZB-624	94, 96-97, 106
8021B	Aromatic and Halogenated Volatiles	ZB-624	106
8030A	Acrolein, Acrylonitrile, Acetonitrile	ZB-624	106
8041A	Phenols	ZB-5MSi, ZB-5ms	94, 95
8061A	Phthalate Esters	ZB-5MSi, ZB-5ms	94, 95
8081B	Organochlorine Pesticides	ZB-5MSi, ZB-5ms, ZB-35HT, ZB-XLB-HT, ZB-MR-1, ZB-MR-2	94, 95, 101, 99, 112-113
8082A	Polychlorinated Biphenyls (PCBs) by GC ECD	ZB-35HT, ZB-5MSi, ZB-XLB-HT, ZB-MR-1, ZB-MR-2	101, 94, 99, 112-113
8091	Nitroaromatics and Cyclic Ketones	ZB-5ms	95
8100	Polynuclear Aromatic Hydrocarbons	ZB-SemiVolatiles, ZB-5MSi, ZB-5ms, ZB-35	109-111, 94, 95, 100
8121	Chlorinated Hydrocarbons	ZB-XLB-HT, ZB-5ms, ZB-5MSi, ZB-MR-1, ZB-MR-2	99, 95, 94, 112-113
8141B	Organophosphorus Pesticides	ZB-XLB-HT, ZB-35HT, ZB-5MSi, ZB-MR-1, ZB-MR-2	99, 101, 94, 112-113
8151A	Chlorinated Herbicides	ZB-XLB-HT, ZB-5ms, ZB-35, ZB-MR-1, ZB-MR-2	99, 95, 100, 112-113
8260B	GC/MS for Volatile Organics: Capillary Column Techniques	ZB-624	106
8270D	GC/MS for Semi-volatile Organics: Capillary Column Techniques	ZB-SemiVolatiles, ZB-5MSi, ZB-5ms, ZB-XLB-HT	109-111, 94, 95, 99
8280B	Analysis of Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans	ZB-5MSi, ZB-5ms	94, 95