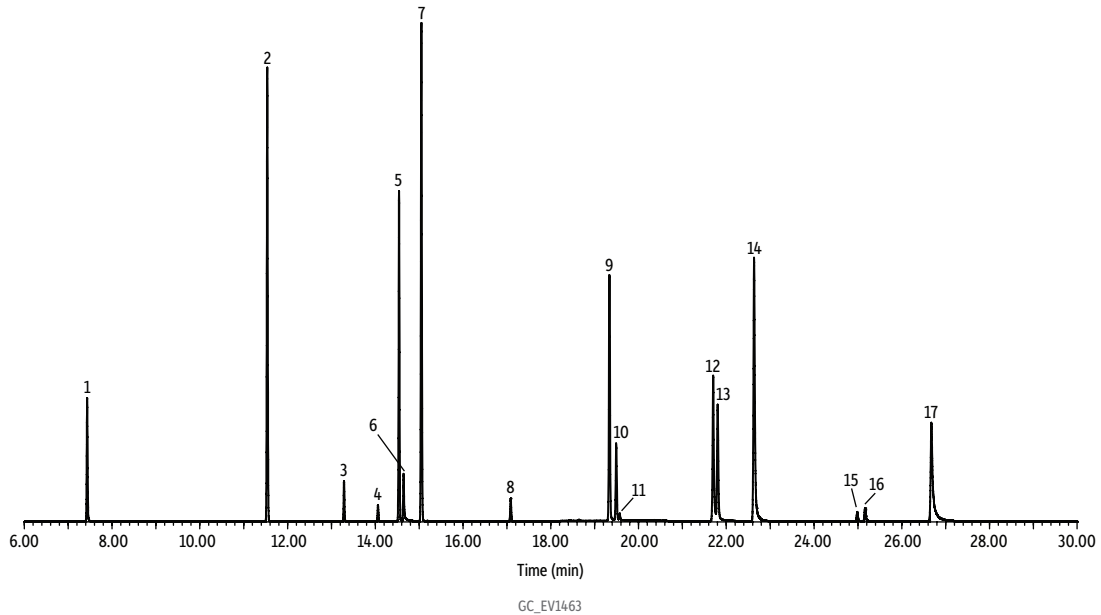


EPA Method 525.3 UCMR4 Standard on Rxi-5Sil MS at 10x the Method Reporting Limit (SIM Analysis)



Peaks	t _r (min)	Conc. (µg/mL)
1. 1,3-Dimethyl-2-nitrobenzene (SS)	7.43	1.0
2. Acenaphthene-d10 (IS)	11.54	1.0
3. Ethoprop	13.29	0.30
4. α-Hexachlorocyclohexane (α-HCH)	14.06	0.10
5. Dimethipin	14.54	2.0
6. Pentachlorophenol- ¹³ C ₆ (IS)	14.65	2.0
7. Phenanthrene-d10 (IS)	15.05	1.0
8. Chlorpyrifos	17.09	0.30
9. Profenofos	19.34	3.0
10. Tribufos	19.49	0.70
11. Oxyfluorfen	19.58	0.50
12. Tebuconazole	21.70	2.0
13. Triphenyl phosphate (SS)	21.80	1.0
14. Chrysene-d12 (IS)	22.63	1.0
15. cis-Permethrin	24.99	0.17
16. trans-Permethrin	25.17	0.23
17. Benzo[a]pyrene-d12 (SS)	26.68	1.0

Column Sample Rxi-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
 EPA Method 525.3 PAH IS mix (cat.# 32547), Pentachlorophenol-¹³C₆ (cat.# 32548),
 EPA Method 525.3 surrogate standard (cat.# 32549), Method 525.3 UCMR4 standard (cat.# 572261)
 Ethyl acetate

Diluent:
Injection
 Inj. Vol.: 1 µL pulsed splitless (hold 1.0 min)
 Liner: Topaz 4 mm single taper w/wool (cat.# 23303)
 Inj. Temp.: 275 °C
 Pulse Pressure: 30 psi (206.8kPa)
 Pulse Time: 1.05 min
 Purge Flow: 60 mL/min
Oven
 Oven Temp.: 70 °C (hold 1.5 min) to 200 °C at 10 °C/min to 320 °C at 7 °C/min (hold 3 min)
Carrier Gas
 Flow Rate: 1.2 mL/min
Detector
 Mode: SIM
 SIM Program:

Group	Start Time (min)	Ion(s) (m/z)	Dwell (ms)
1	1.546	77, 134	25
2	9.501	162, 164	25
3	12.423	97, 126, 139, 158	25
4	13.666	109, 181, 183, 219	25
5	14.288	53, 54, 274, 276	25
6	14.856	160, 188	25
7	16.087	97, 197, 199	25
8	18.205	57, 63, 97, 139, 169, 208, 252, 339, 361	25
9	20.652	77, 83, 125, 169, 250, 326	25
10	22.212	236, 240	25
11	23.813	163, 183	25
12	25.886	132, 164	25

Transfer Line
 Temp.: 280 °C
Analyzer Type: Quadrupole
Source Type: Stainless Steel
Drawout Plate: 6 mm ID
Source Temp.: 280 °C
Quad Temp.: 180 °C
Solvent Delay
 Time: 1.45 min
Tune Type: DFTPP
Ionization Mode: EI
Instrument
 HP6890 GC & 5973 MSD
Notes
 The EPA Method 525.3 UCMR4 standard analyte concentrations vary to simplify preparing ICAL levels based on the minimum method reporting levels.