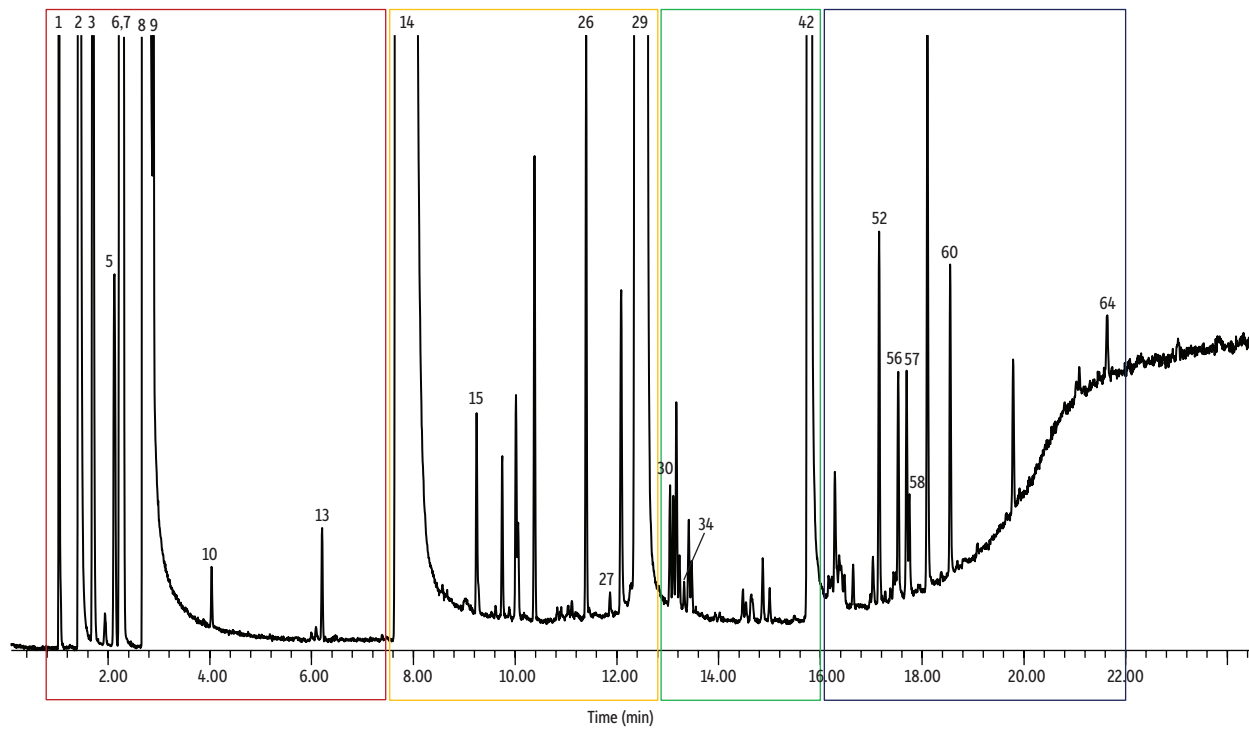


Electronic Cigarette Liquid on Rtx-VMS (GC-MS)

| Peaks | tr (min) | Match | EC | Blank | Region | Peaks | tr (min) | Match | EC | Blank | Region |
|---|----------|-------|----|-------|--------|-----------------------------|----------|-------|----|-------|--------|
| 1. Nitrogen/oxygen/carbon dioxide | 1.051 | 100 | x | x | Red | 33. Unidentified | 13.229 | | x | | Green |
| 2. Water | 1.441 | 100 | x | x | Red | 34. 1-(3-Pyridinyl)ethanone | 13.321 | 94 | x | | Green |
| 3. Methanol | 1.709 | 100 | x | x | Red | 35. Unidentified | 13.412 | | x | | Green |
| 4. Unidentified | 1.934 | | x | x | Red | 36. Unidentified | 13.463 | | x | | Green |
| 5. <i>cis</i> -1,2-Dimethylcyclopropane | 2.117 | 94 | x | x | Red | 37. Unidentified | 14.479 | | x | | Green |
| 6. Ethanol | 2.239 | 100 | x | | Red | 38. Unidentified | 14.534 | | x | | Green |
| 7. 1,1-Dichloroethene | 2.282 | 94 | x | x | Red | 39. Unidentified | 14.643 | | x | | Green |
| 8. Methylene chloride | 2.757 | 100 | x | x | Red | 40. Unidentified | 14.863 | | x | | Green |
| 9. 1,2-Dichloroethene | 2.891 | 94 | x | x | Red | 41. Unidentified | 15.003 | | x | | Green |
| 10. Ethyl acetate | 4.037 | 91 | x | | Red | 42. Nicotine | 15.800 | 100 | x | | Green |
| 11. Unidentified | 6.000 | | x | | Red | 43. Unidentified | 16.161 | | x | | Blue |
| 12. Unidentified | 6.085 | | x | | Red | 44. Unidentified | 16.222 | | x | | Blue |
| 13. Toluene | 6.207 | 100 | x | | Red | 45. α -Damascone | 16.289 | 95 | x | | Blue |
| 14. Propylene glycol | 7.853 | 100 | x | | Orange | 46. Unidentified | 16.374 | | x | | Blue |
| 15. 2,3-Dimethylpyrazine | 9.243 | 91 | x | | Orange | 47. Unidentified | 16.417 | | x | | Blue |
| 16. Unidentified | 9.615 | | x | | Orange | 48. Unidentified | 16.478 | | x | | Blue |
| 17. Unidentified | 9.713 | | x | | Orange | 49. Unidentified | 16.643 | | x | | Blue |
| 18. Unidentified | 9.889 | | x | | Orange | 50. Unidentified | 16.984 | | x | | Blue |
| 19. Unidentified | 10.017 | | x | | Orange | 51. Unidentified | 17.033 | | x | | Blue |
| 20. Unidentified | 10.060 | | x | | Orange | 52. Myosmine | 17.155 | 95 | x | | Blue |
| 21. Trimethylpyrazine | 10.383 | 94 | x | | Orange | 53. Unidentified | 17.276 | | x | | Blue |
| 22. Unidentified | 10.828 | | x | | Orange | 54. Unidentified | 17.380 | | x | | Blue |
| 23. Unidentified | 10.907 | | x | | Orange | 55. Unidentified | 17.441 | | x | | Blue |
| 24. Unidentified | 11.047 | | x | | Orange | 56. Nicotine 1-N-oxide | 17.533 | 93 | x | | Blue |
| 25. Unidentified | 11.114 | | x | | Orange | 57. Anabasin | 17.697 | 98 | x | | Blue |
| 26. Acetylpyrazine | 11.394 | 95 | x | | Orange | 58. Nicotyrine | 17.752 | 91 | x | | Blue |
| 27. N-(1-Methylethyl)benzenamine | 11.864 | 80 | x | | Orange | 59. Unidentified | 18.105 | | x | | Blue |
| 28. Dipropylene glycol | 12.071 | 91 | x | | Orange | 60. 2,3-Dipyridyl | 18.550 | 97 | x | | Blue |
| 29. Glycerin | 12.473 | 100 | x | | Orange | 61. Unidentified | 19.788 | | x | | Blue |
| 30. Dipropylene glycol methyl ether | 13.040 | 80 | x | | Green | 62. Unidentified | 21.025 | | x | | Blue |
| 31. Unidentified | 13.107 | | x | | Green | 63. Unidentified | 21.092 | | x | | Blue |
| 32. Unidentified | 13.168 | | x | | Green | 64. Cotinine | 21.635 | 91 | x | | Blue |



Column Rtx-VMS, 30 m, 0.25 mm ID, 1.40 μ m (cat.# 19915)
Sample Methylene chloride
Diluent: Electronic cigarette liquid diluted 2:1
Conc.:
Injection
Inj. Vol.: 1 μ L split (split ratio 10:1)
Liner: Premium 4 mm Precision liner w/wool (cat.# 23305)
Inj. Temp.: 250 °C
Oven
Oven Temp.: 35 °C (hold 1 min) to 250 °C at 11 °C/min (hold 4 min)
Carrier Gas He, constant flow
Flow Rate: 2.0 mL/min
Linear Velocity: 51.15 cm/sec @ 35 °C
Detector MS
Mode: Scan

GC_FF1260

Scan Program:

| Group | Start Time (min) | Scan Range (amu) | Scan Rate (scans/sec) |
|-------|------------------|------------------|-----------------------|
| 1 | 0 | 15-550 | 5.2 |

Transfer Line 250 °C
Analyzer Type: Quadrupole
Source Type: Extractor
Extractor Lens: 6mm ID
Source Temp.: 230 °C
Quad Temp.: 150 °C
Electron Energy: 70 eV
Tune Type: BFB
Ionization Mode: EI
Instrument Agilent 7890B GC & 5977A MSD