## Common Background Ions for Electrospray (Positive Ion)

<table>
<thead>
<tr>
<th>m/z</th>
<th>Ion</th>
<th>Compound</th>
<th>m/z</th>
<th>Ion</th>
<th>Compound</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>(M+Na)^+</td>
<td>DMSO</td>
<td>267</td>
<td>(M+H)^+</td>
<td>tributylphosphate</td>
</tr>
<tr>
<td>102</td>
<td>(M+H)^+</td>
<td>triethylamine (TEA)</td>
<td>273</td>
<td>M^+</td>
<td>monomethoxytrityl cation (MMT)</td>
</tr>
<tr>
<td>104/106</td>
<td>(M+Cu)^+</td>
<td>acetonitrile</td>
<td>279</td>
<td>(M+H)^+</td>
<td>dibutylphthalate (plasticiser)</td>
</tr>
<tr>
<td>105</td>
<td>(2M+Na)^+</td>
<td>acetonitrile</td>
<td>282</td>
<td></td>
<td>plasticizer in polyethylene</td>
</tr>
<tr>
<td>120</td>
<td>(M+Na+CH3CN)^+</td>
<td>DMSO</td>
<td>301</td>
<td>(M+Na)^+</td>
<td>dibutylphthalate (plasticiser)</td>
</tr>
<tr>
<td>122</td>
<td>(M+H)^+</td>
<td>Tris</td>
<td>317</td>
<td>(M+K)^+</td>
<td>dibutylphthalate (plasticiser)</td>
</tr>
<tr>
<td>123</td>
<td>(M+H)^+</td>
<td>dimethylaminopyridine (DMAP)</td>
<td>336</td>
<td>(M+H)^+</td>
<td>tributyl tin formate</td>
</tr>
<tr>
<td>130</td>
<td>(M+H)^+</td>
<td>diisopropylethylamine (DIPEA)</td>
<td>338</td>
<td>(M+H)^+</td>
<td>erucamide</td>
</tr>
<tr>
<td>137</td>
<td>(M+ACN+NH3)^+</td>
<td>DMSO</td>
<td>360</td>
<td>(M+Na)^+</td>
<td>erucamide</td>
</tr>
<tr>
<td>144</td>
<td>(M+H)^+</td>
<td>tripropylamine (TPA)</td>
<td>371</td>
<td>(M+H)^+</td>
<td>polysiloxane, followed by 388</td>
</tr>
<tr>
<td>145/147</td>
<td>(2M+Cu)^+</td>
<td>acetonitrile</td>
<td>391</td>
<td>(M+H)^+</td>
<td>diisooctyl phthalate (plasticiser)</td>
</tr>
<tr>
<td>146</td>
<td>(3M+Na)^+</td>
<td>acetonitrile</td>
<td>413</td>
<td>(M+Na)^+</td>
<td>diisooctyl phthalate (plasticiser)</td>
</tr>
<tr>
<td>150</td>
<td>(M+H)^+</td>
<td>phenyldiethylamine</td>
<td>425</td>
<td>(M+Na)^+</td>
<td>unidentified contaminant (plasticiser)</td>
</tr>
<tr>
<td>153</td>
<td>(M+H)^+</td>
<td>1,8-diazabicyclo[5.4.0]undec-7-ene (DBU)</td>
<td>429</td>
<td>(M+K)^+</td>
<td>diisooctyl phthalate (plasticiser)</td>
</tr>
<tr>
<td>157</td>
<td>(2M+H)^+</td>
<td>DMSO</td>
<td>445</td>
<td>(M+H)^+</td>
<td>polysiloxane, followed by 462</td>
</tr>
<tr>
<td>159</td>
<td>(M+Na)^+</td>
<td>sodium trifluoroacetate</td>
<td>449</td>
<td>(2M+H)^+</td>
<td>dicyclohexyl urea (DCU)</td>
</tr>
<tr>
<td>179</td>
<td>(2M+Na)^+</td>
<td>DMSO</td>
<td>454</td>
<td>(M+Na+CH3CN)^+</td>
<td>diisooctyl phthalate (plasticiser)</td>
</tr>
<tr>
<td>186</td>
<td>(M+H)^+</td>
<td>tributylamine</td>
<td>522</td>
<td>Unknown^1</td>
<td></td>
</tr>
<tr>
<td>214</td>
<td>Unknown surfactant</td>
<td></td>
<td>550</td>
<td>Unknown^1</td>
<td></td>
</tr>
<tr>
<td>217</td>
<td>Unidentified contaminant</td>
<td></td>
<td>798</td>
<td>(2M+NH3)^+</td>
<td>diisooctyl phthalate (plasticiser)</td>
</tr>
<tr>
<td>225</td>
<td>(M+H)^+</td>
<td>dicyclohexyl urea (DCU)</td>
<td>803</td>
<td>(2M+Na)^+</td>
<td>diisooctyl phthalate (plasticiser)</td>
</tr>
<tr>
<td>231</td>
<td>(M+NH3)^+</td>
<td>Unknown^1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>239/241</td>
<td>[M+HCl2-Cl]^+</td>
<td>triethylamine</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>242</td>
<td>M^+</td>
<td>tetrabutylammonium (C4H9)N^+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>243</td>
<td>M^+</td>
<td>trityl cation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>257</td>
<td>(3M+H)^+</td>
<td>DMSO</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Common Adducts:**

- (M+NH3)^+\(\times 18\)
- (M+Na)^+\(\times 23\)
- (M+K)^+\(\times 39\)

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Common nanospray background of 50% ACN, 0.1% Formic Acid*

† Derived from rubber tip from disposable syringe plunger

* See Andreas Schlosser and Rudolf Volkmer-Engert "Volatile polydimethylcyclosiloxanes in the ambient laboratory air identified as source of extreme background signals in..."