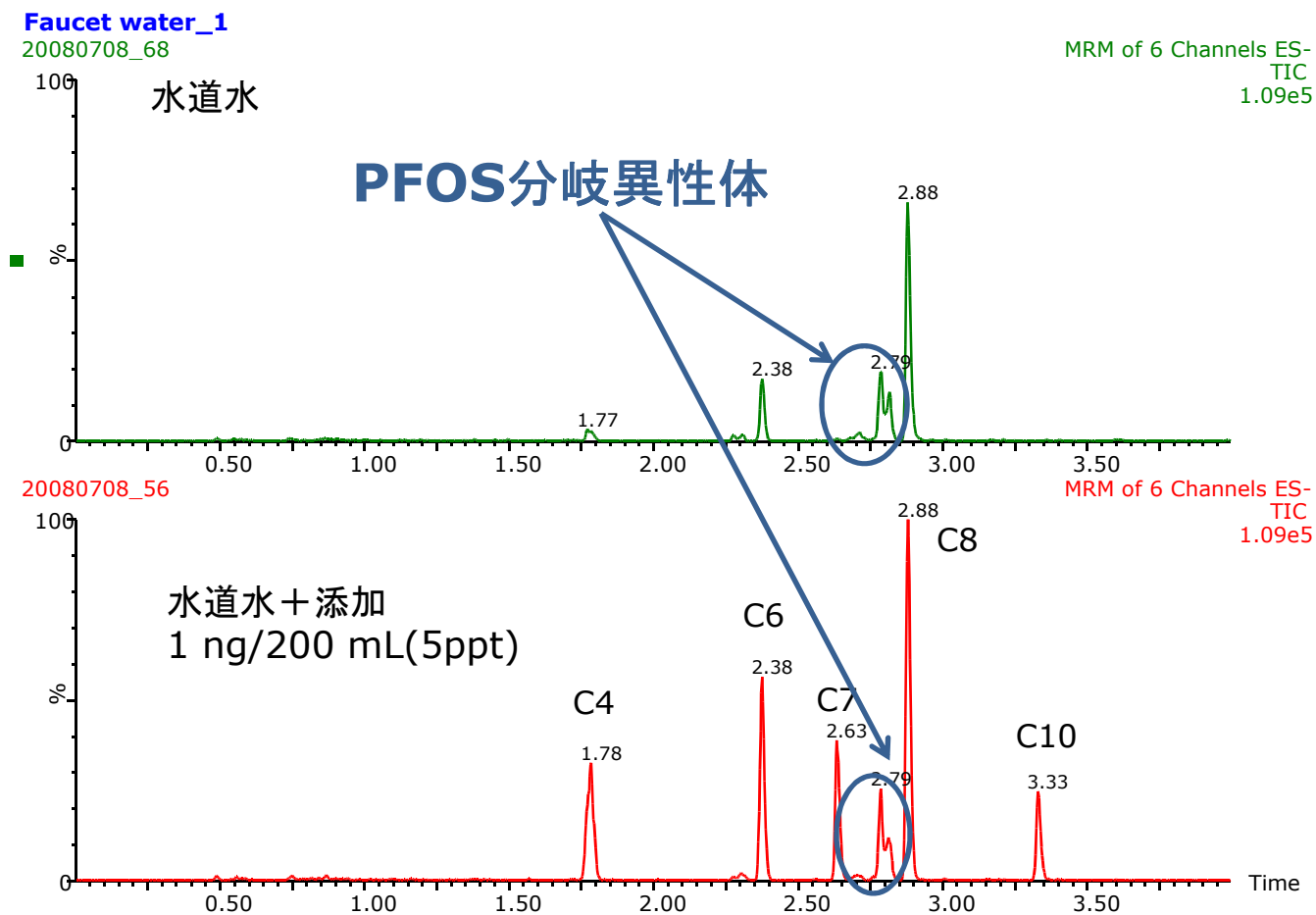


UPLC/MS/MSを用いたPFCs異性体分離の検討

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Fig.1 水道水のPFCs分析例



対象化合物

- | | | |
|---|--|-----------------|
| ① | $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3^-$ | PFOS |
| ② | $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3^-$

CF_3 | 1-m-PFOS |
| ③ | $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3^-$

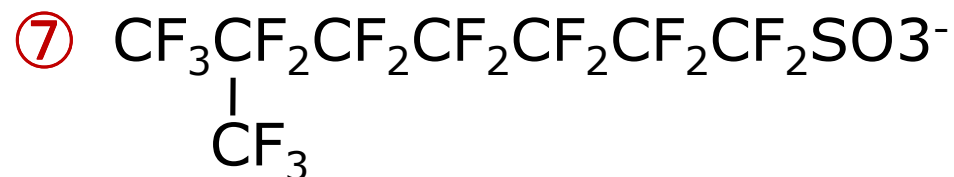
CF_3 | 2-m-PFOS |
| ④ | $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3^-$

CF_3 | 3-m-PFOS |
| ⑤ | $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3^-$

CF_3 | 4-m-PFOS |
| ⑥ | $\text{CF}_3\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{CF}_2\text{SO}_3^-$

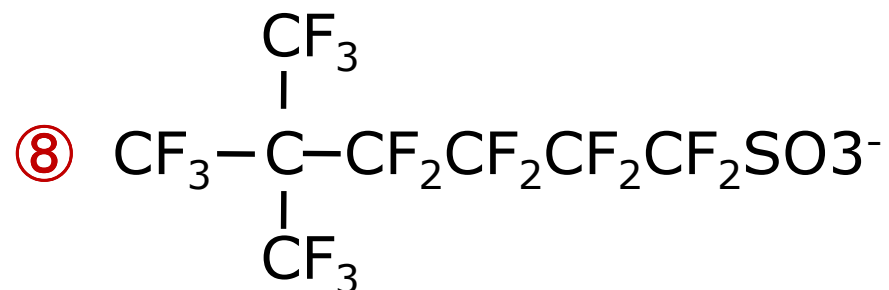
CF_3 | 5-m-PFOS |

対象化合物

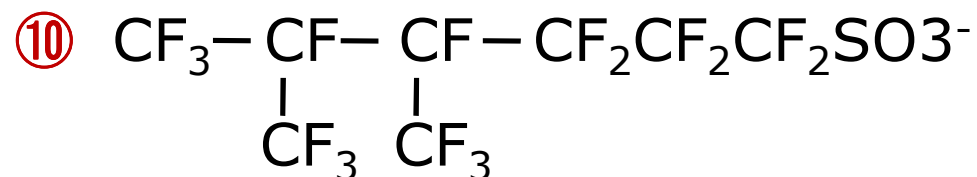
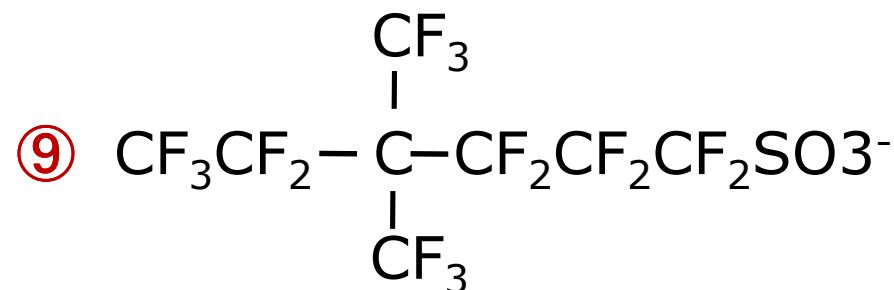


6-m-PFOS

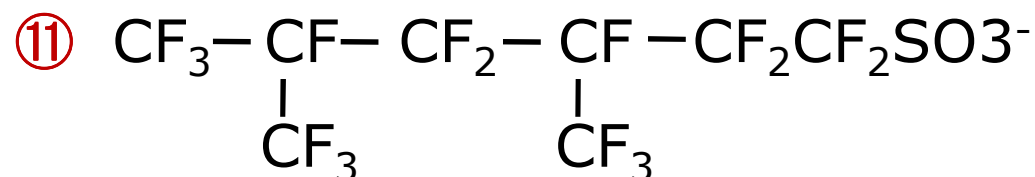
5,5-m,m-PFOS



4,4-m,m-PFOS



4,5-m,m-PFOS



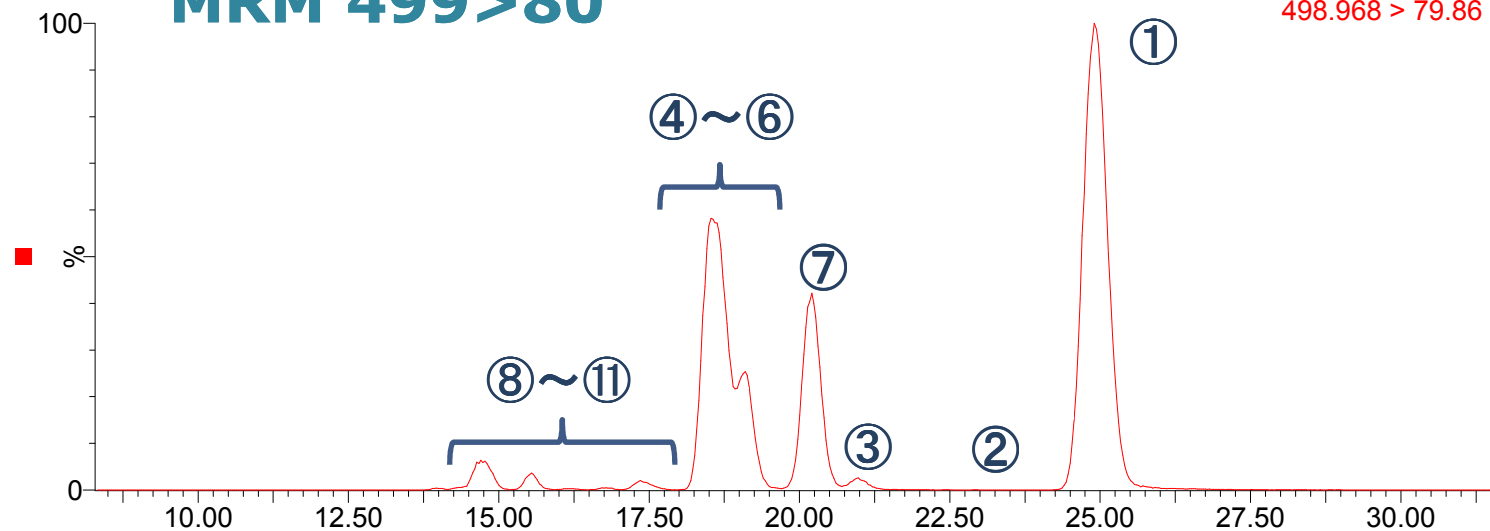
3,5-m,m-PFOS

結果

MRM

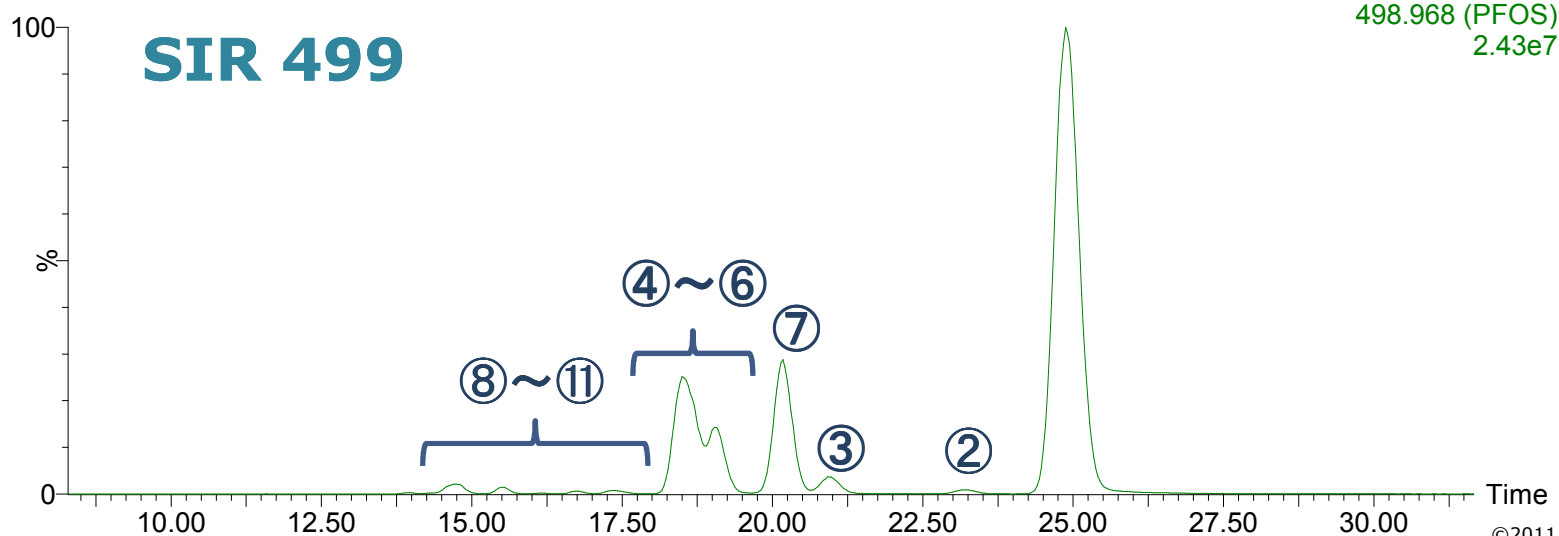
0811_05

MRM 499>80



0811_05

SIR 499



結果 (④~⑥)

MRM

