

**Table S1 Formation and name of adsorbed material**

name	F formulation
C18	Octadecyl group bonded on silica gel, particle size 40µm,
SCX	Sodium sulfonate bonded silica gel, particle size 40µm
SAX	quaternary ammonium halides bonded silica gel, particle size 40µm
PSA	n-propyl ethylenediamine bonded Silica gel, particle size 40µm
FL	Magnesium oxide composite silica gel, particle size 200µm
Al-N	Neutral alumina, particle size 150µm
SLE	Porous diatomite, particle size 150 µm,
GCB	Graphite carbon, particle size 120-400 mesh
MWCN	Multiwalled Carbon nanotubes, particle size 10-20 nm
HMCN	Hydroxylated multiwalled carbon nanotubes, particle size 10-20 nm

Fig S1 molecular structure of SAPS

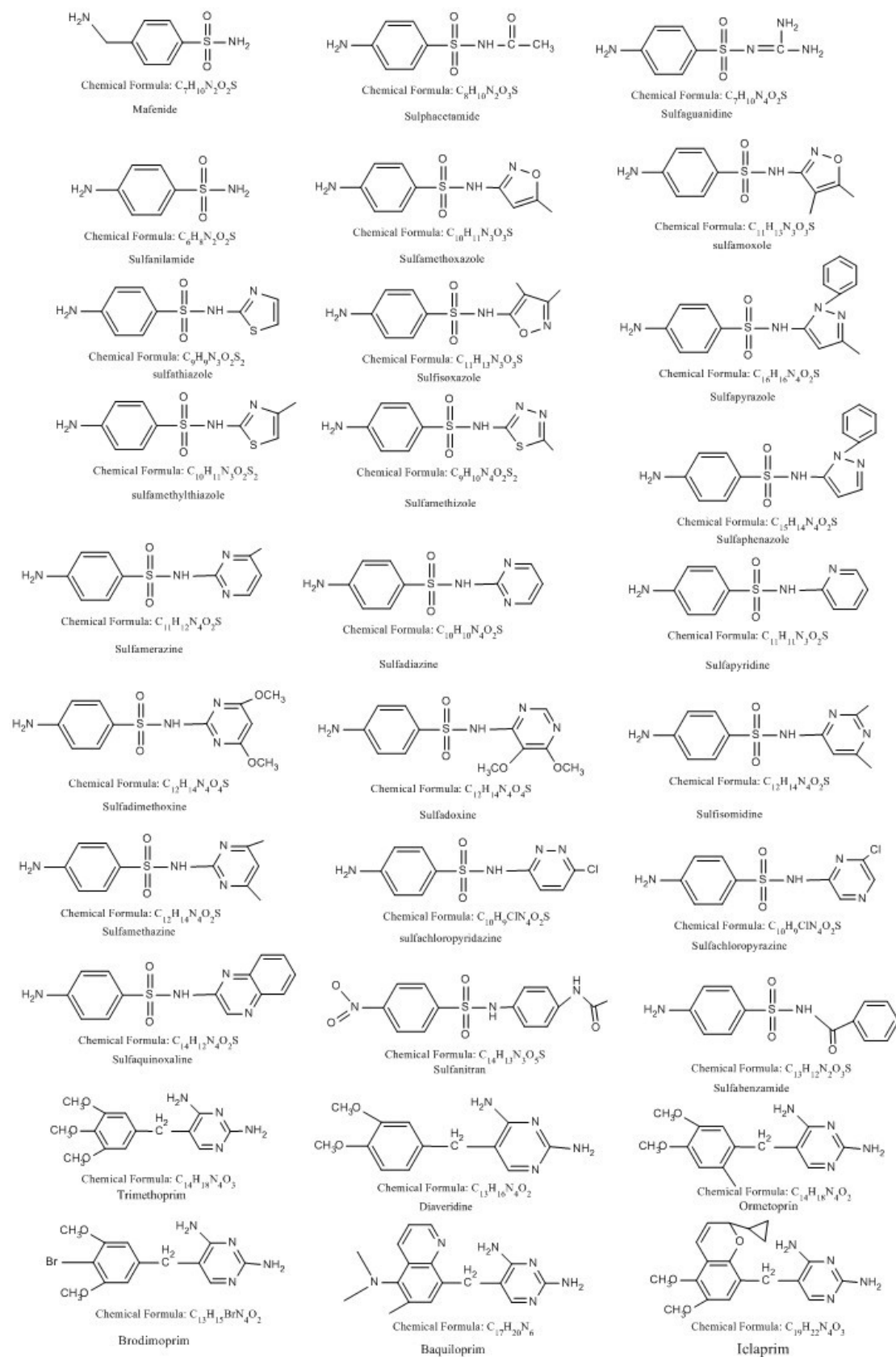


Fig S2 total ion chromatograms of SAPS

RT: 0.00 - 10.00

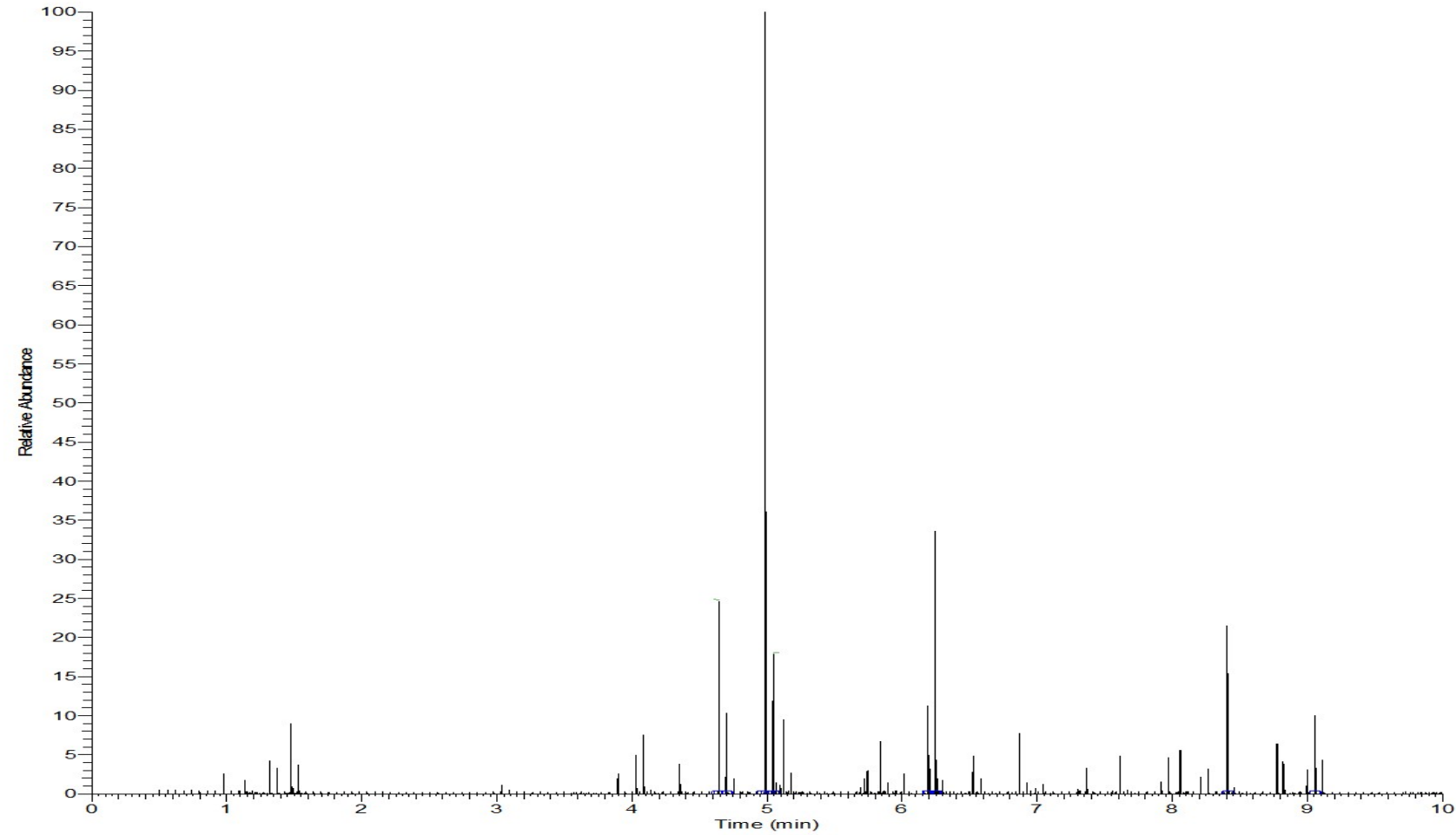
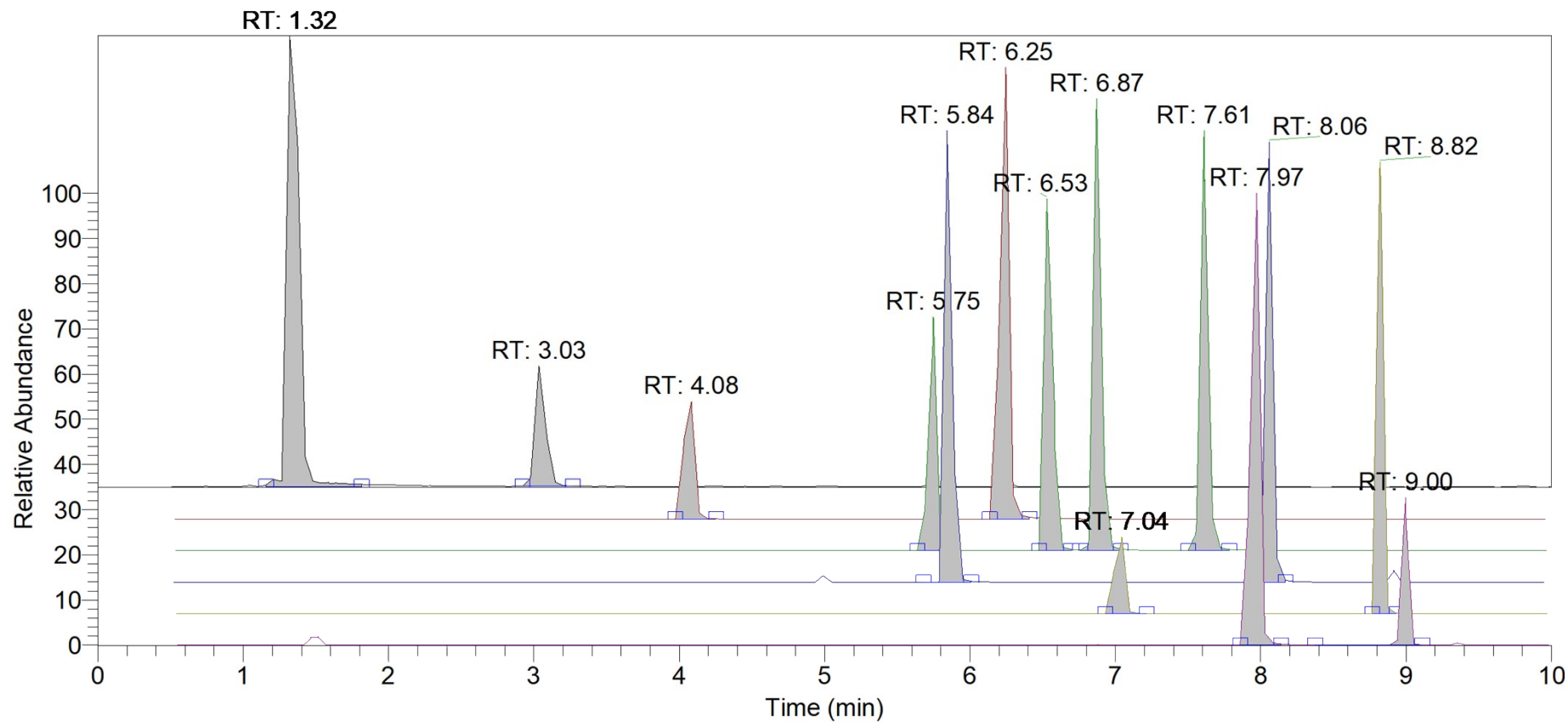


Fig S3 PRM chromatograms of 14 SA isomer

RT: 0.00 - 10.00



14 SA isomer ordered by time: Sulphacetamide, Sulfaguanidine, Sulfisomidine, Sulfafurazole, Sulfametoxydiazine, Sulfamethazine, Sulfamethoxy pyridazine, Sulfaniline, sulfachloropyridazine, Sulfamonomethoxine, sulfadimethoxine, Sulfisoxazole, sulfachloropyrazine, Sulfadoxine

Fig s4 the recoveries of different extraction solvents

