

Table S.3 Standard curves of aroma-active compounds of Citrus Pu-erh tea samples

No.	CAS	Compounds	Standard curve	R ²	linearity range(mg/kg)
A1	000100-42-5	styrene	$y=0.22348x+0.01165$	0.98036	0.23-70
A2	000127-91-3	β -pinene	$y=0.56536x-0.00097$	0.99823	0.07-20
A3	005989-27-5	(+)-limonene	$y=0.12665x+0.09923$	0.97571	1.73-520
A4	000099-85-4	γ -terpinene	$y=0.48590x+0.04282$	0.96443	0.27-80
A5	000099-87-6	p-cymene	$y=0.92051x-0.56505$	0.95953	1.00-300
A6	001195-32-0	2,4-dimethyl styrene	$y=0.34307x-0.03798$	0.96226	0.30-90
B1	000108-95-2	phenol	$y=0.35414x+0.06385$	0.98721	1.00-300
B2	000095-48-7	o-cresol	$y=1.91112x+0.17524$	0.99181	0.33-100
B3	000106-44-5	p-cresol	$y=0.83092x-0.26061$	0.99466	1.67-500
B4	000499-75-2	carvacrol	$y=0.23821x-2.08179$	0.98654	10.00-3000
B5	000089-83-8	thymol	$y=0.50742x-2.19827$	0.99262	6.67-2000
B6	000096-76-4	2,4-di-tert-butylphenol	$y=0.18373x+0.09253$	0.98812	6.67-2000
C1	000556-82-1	prenol	$y=0.98862x+0.02174$	0.99642	0.17-50
C2	000078-70-6	linalool	$y=0.32526x+0.01884$	0.99809	0.83-250
C3	000098-55-5	α -terpineol	$y=0.10647x+0.14971$	0.99733	4.00-1200
C4	001197-06-4	Z-carveol	$y=0.05040x+0.09049$	0.99137	5.33-1600
C5	001197-01-9	p-cymenol	$y=0.07026x+0.11304$	0.98783	4.00-1200
C6	000099-48-9	(-)-carveol	$y=0.48570x+0.30433$	0.97312	1.67-500
C7	001946-00-5	limonene glycol	$y=0.40447x-0.07032$	0.97945	3.33-1000
C8	000536-59-4	perillalcohol	$y=0.62841x-0.08125$	0.99112	1.67-500
C9	000100-51-6	benzyl alcohol	$y=0.36041x+0.02686$	0.99136	0.33-100
C10	000104-76-7	2-ethylhexanol	$y=0.04813x-0.11803$	0.98795	2.53-760
C11	000562-74-3	terpinen-4-ol	$y=0.22139x+0.17776$	0.98897	2.00-600
C12	000547-61-5	(-)-pinocarveol	$y=0.33318x+0.02654$	0.98667	0.67-200
C13	000060-12-8	phenylethyl alcohol	$y=0.32851x-1.01252$	0.98737	0.83-250
C14	007212-40-0	(E)-p-mentha-2,8-dien-1-ol	$y=0.23476x-0.94143$	0.99653	11.67-3500
D1	000121-33-5	vanillin	$y=0.87741x-0.00163$	0.99875	3.33-1000
D2	000124-19-6	nonanal	$y=0.11981x+0.00261$	0.98196	0.13-40
D3	000112-31-2	decanal	$y=0.80746x-0.15831$	0.98211	0.43-130
D4	000106-23-0	citronellal	$y=0.08034x+0.01638$	0.98435	0.33-100
D5	000100-52-7	benzaldehyde	$y=0.13697x-0.05785$	0.98764	0.67-200
D6	002111-75-3	perillaldehyde	$y=0.24627x+0.03108$	0.99173	0.67-200
D7	001003-29-8	2-pyrrolaldehyde	$y=0.76228x+0.07396$	0.98719	1.67-500
E1	005948-04-9	dihydrocarvone	$y=0.91131x-0.43449$	0.98822	0.67-200
E2	000079-77-6	β -ionone	$y=1.24536x-0.05956$	0.98451	0.17-50
E3	000089-81-6	piperitone	$y=0.73964x-0.16741$	0.99097	0.33-100
E4	002244-16-8	(+)-carvone	$y=0.06040x+0.10349$	0.98383	3.33-1000
E5	000119-61-9	benzophenone	$y=0.65224x-0.78890$	0.98923	4.00-1200
E6	000100-06-1	4-methoxyacetophenone	$y=0.90263x-0.43739$	0.98711	0.83-250
F1	000085-91-6	methyl methanthranilate	$y=0.17187x+0.49718$	0.99464	20.00-6000
F2	000134-20-3	methyl anthranilate	$y=0.20321x+0.08462$	0.99553	2.00-600
G1	000124-07-2	octanoic acid	$y=0.47220x+0.08301$	0.99842	1.00-300
G2	000143-07-7	lauric acid	$y=0.54627x-0.07653$	0.99835	2.23-700
G3	000057-10-3	palmitic acid	$y=0.67172x-0.48379$	0.98984	10.00-3000
H1	000067-71-0	dimethyl sulfone	$y=0.06717x-0.46392$	0.99971	2.33-700
H2	005910-89-4	2,3-dimethyl pyrazine	$y=0.85428x-0.11594$	0.96799	0.20-60
H3	000091-16-7	1,2-dimethoxybenzene	$y=0.02651x+0.14426$	0.98562	2.33-700