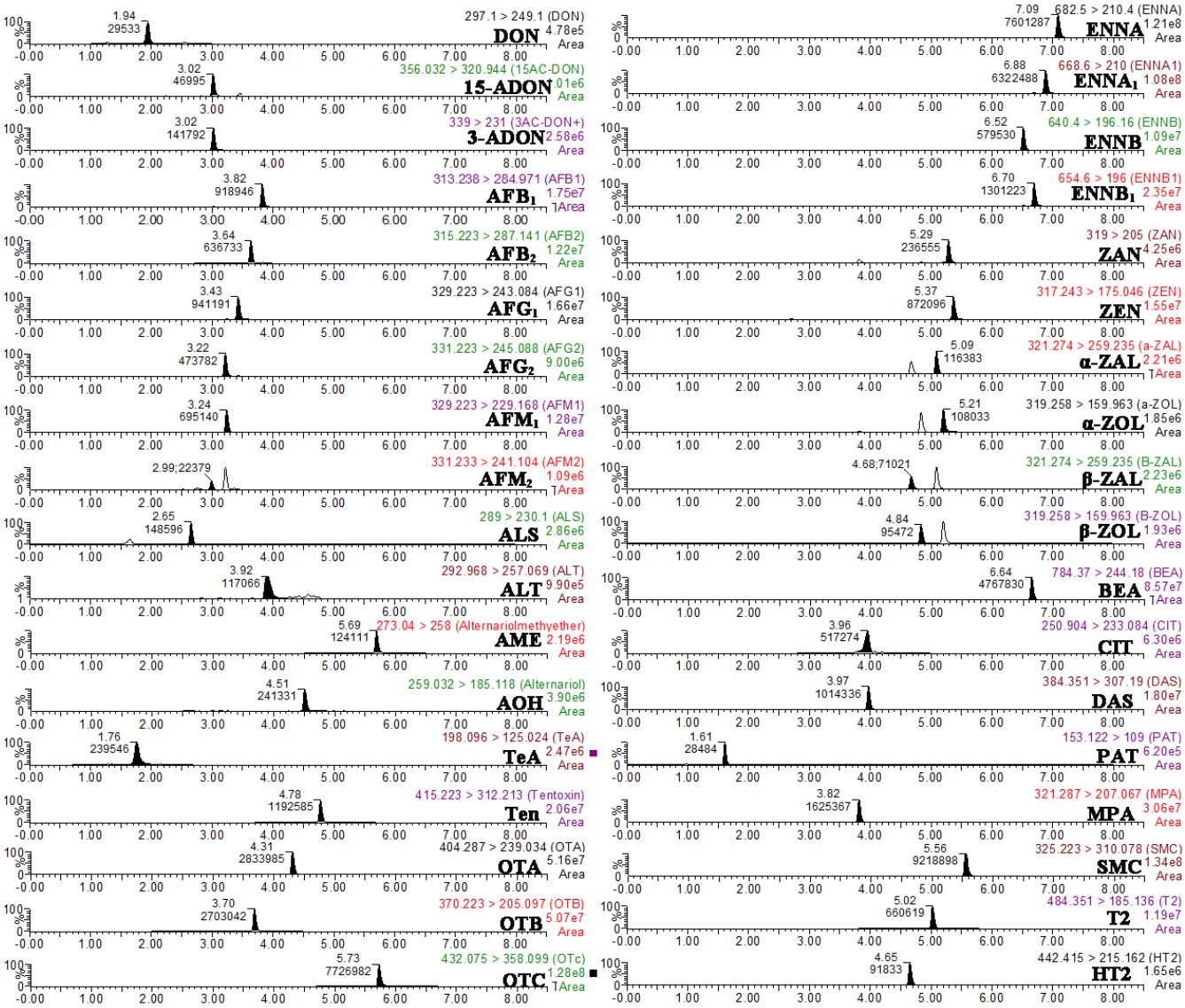
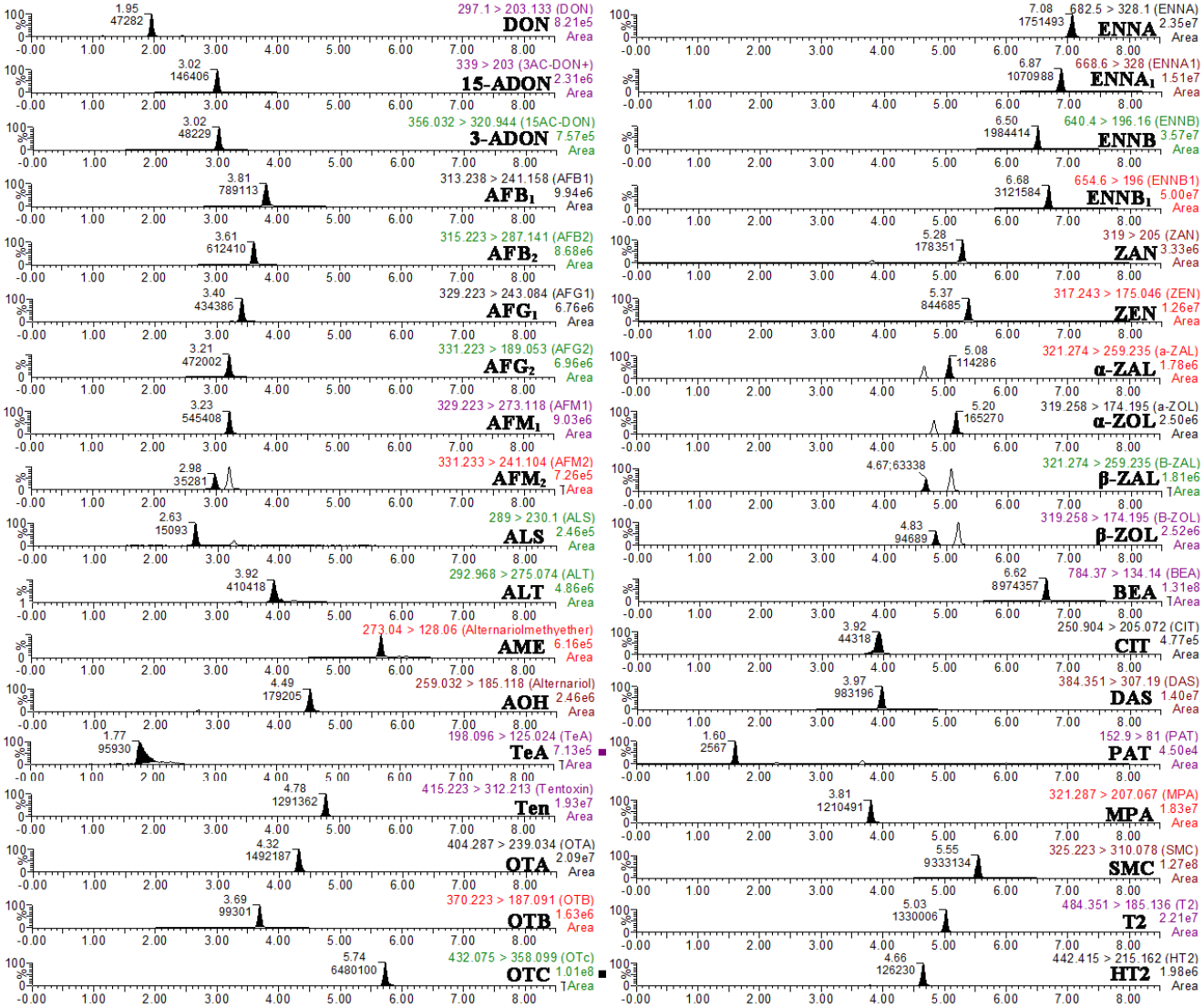


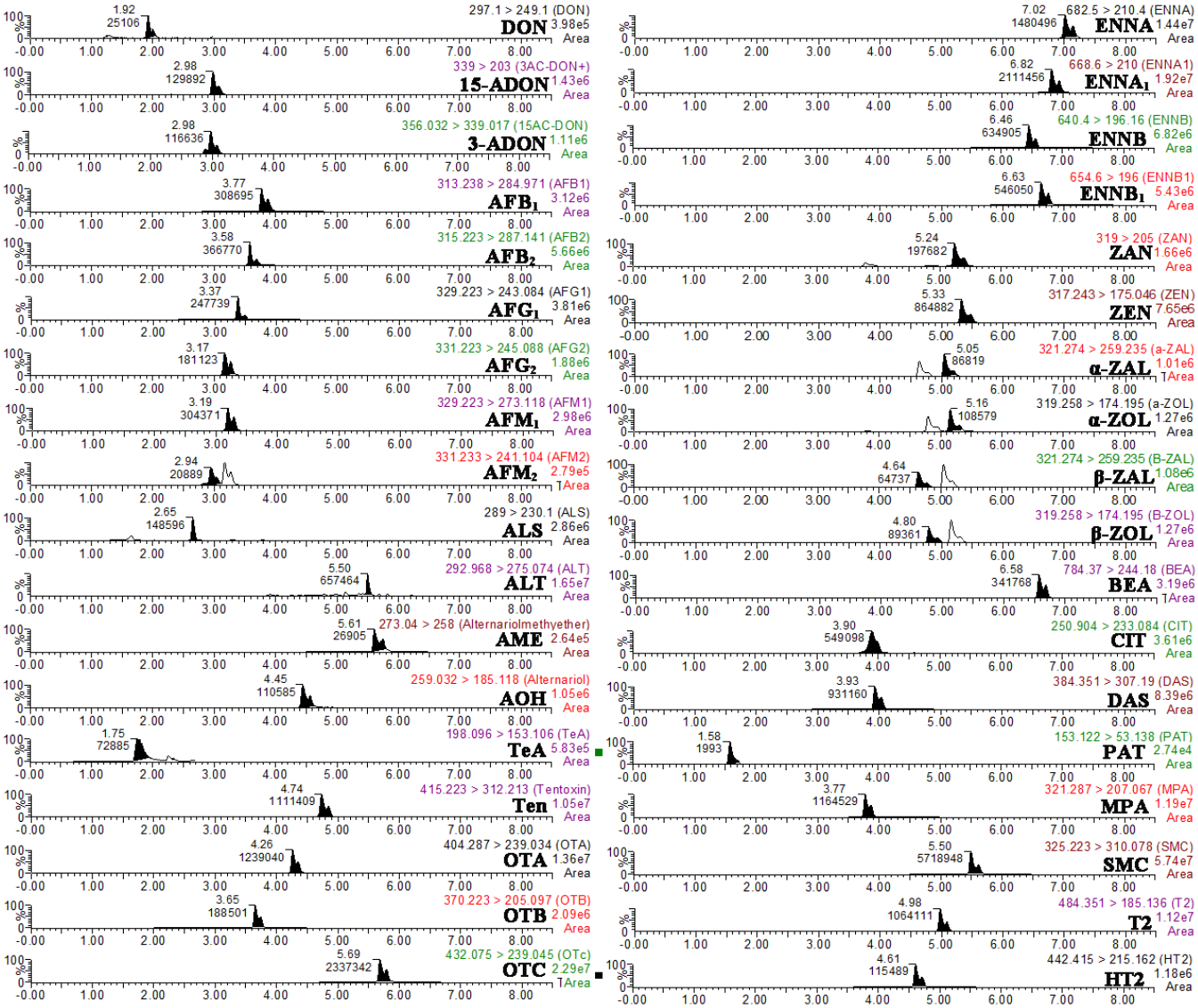
附图 1 草莓基质中 36 种真菌毒素(100 μg/L)的 MRM 色谱图

Fig. S1 Multiple reaction monitoring (MRM)chromatograms of the 36 mycotoxins (100 μg/L) in strawberry matrix



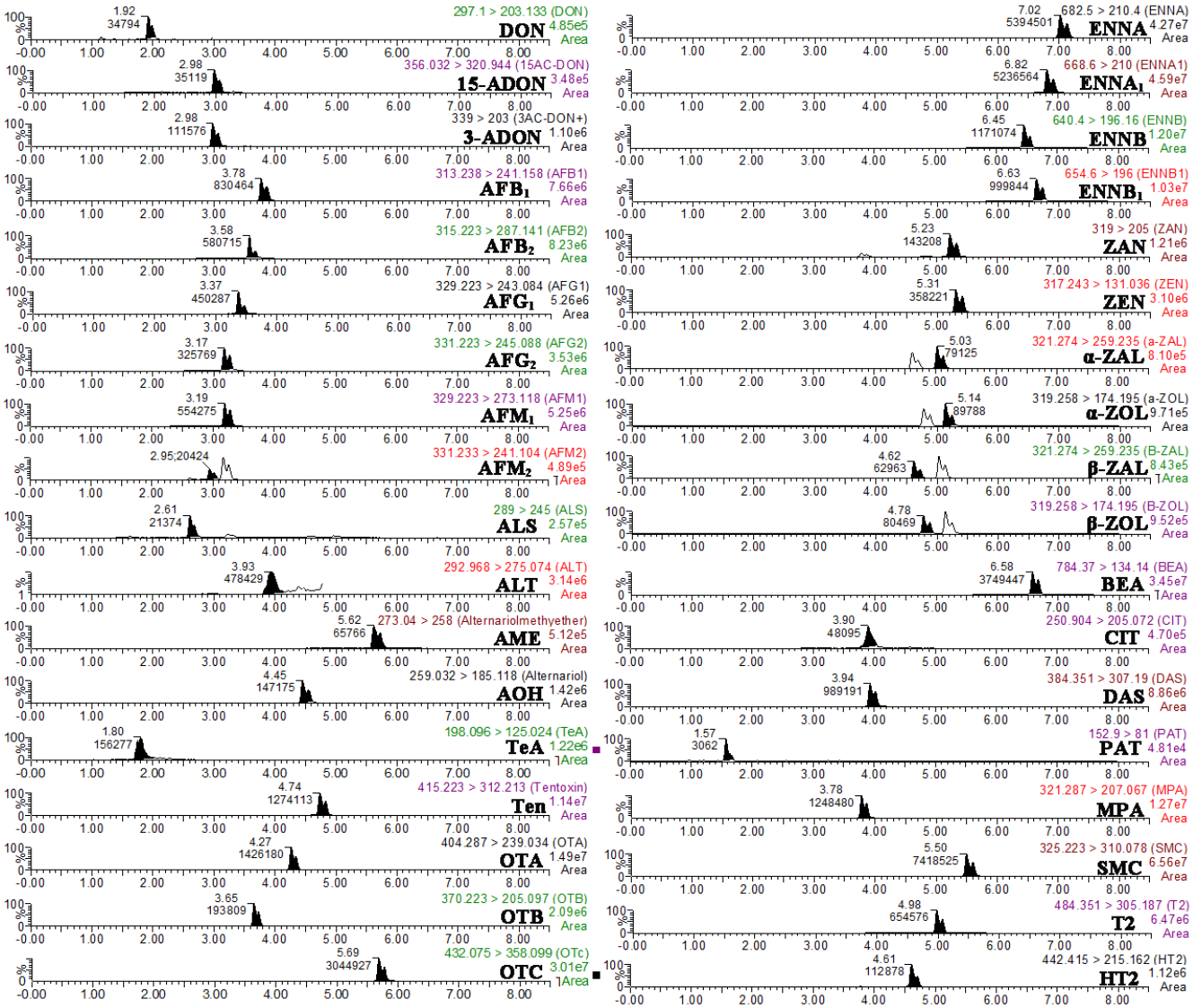
附图 2 葡萄基质中 36 种真菌毒素(100 μg/L)的 MRM 色谱图

Fig. S2 MRM chromatograms of the 36 mycotoxins (100 μg/L) in grape matrix



附图 3 梨基质中 36 种真菌毒素(100 μg/L)的 MRM 色谱图

Fig. S3 MRM chromatograms of the 36 mycotoxins (100 μg/L) in pear matrix



附图 4 桃基质中 36 种真菌毒素(100 μg/L)的 MRM 色谱图

Fig. S4 MRM chromatograms of the 36 mycotoxins (100 μg/L) in peach matrix

附表 1 草莓中 36 种真菌毒素的回收率、日间精密度和日内精密度

Table S1 Recoveries, inter-day RSDs and intra-day RSDs of the 36 mycotoxins in strawberries

Mycotoxin	Recoveries/%			Inter-day RSDs /%			Intra-day RSDs/%		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
DON	109.1	113.8	85.2	8.9	5.1	14.2	7.6	5.4	12.7
15-ADON	96.7	107.3	93.2	5.3	11.6	6.0	6.2	9.6	7.0
3-ADON	101.4	113.7	118.9	12.4	4.0	0.8	9.7	4.5	10.7
AFB_1	115.5	115.9	110.1	3.1	3.7	4.2	2.0	2.8	2.7
AFB_2	115.4	83.8	97.3	3.9	4.9	8.1	2.3	13.7	7.5
AFG_1	115.3	108.8	97.6	1.7	4.3	6.2	9.3	12.9	7.0
AFG_2	113.0	106.5	107.0	2.8	2.4	5.1	5.9	6.0	6.4
AFM_1	114.4	107.4	112.8	3.3	1.2	3.2	12.5	3.5	6.2
AFM_2	98.7	109.5	107.6	4.1	5.2	3.0	4.1	5.4	8.5
ALS	84.5	88.8	89.1	2.9	12.6	6.6	7.4	9.0	5.4
ALT	101.9	112.9	98.2	7.7	3.4	11.0	6.2	6.6	9.9
AME	101.1	101.3	89.7	7.8	6.3	0.2	7.0	9.5	6.9
AOH	89.8	108.1	106.1	4.1	7.8	10.1	3.1	11.4	7.2
TeA	96.0	90.4	90.2	1.2	11.5	17.3	6.0	8.4	11.9
Ten	112.0	112.7	111.5	4.4	4.2	1.4	8.1	4.5	6.4
OTA	113.4	113.4	117.0	1.3	3.8	2.6	6.0	2.8	7.2
OTB	100.4	97.9	97.7	3.6	1.2	1.9	3.1	3.3	6.5
OTC	110.6	109.4	109.5	4.4	2.4	6.0	12.7	13.4	7.7
ENNA	114.6	112.3	109.5	2.3	2.1	4.4	10.0	8.1	7.7
$ENNA_1$	116.4	112.3	110.1	0.6	2.2	4.5	8.6	6.3	11.4
ENNB	115.9	107.6	106.5	1.7	0.9	0.8	13.3	6.3	9.6
$ENNB_1$	113.4	111.1	110.8	2.5	1.5	1.6	13.9	8.2	12.5
ZAN	94.4	96.8	99.8	13.1	12.2	4.4	11.2	11.9	8.3
ZEN	106.7	95.6	102.4	9.1	9.3	5.3	11.3	9.5	9.5
α-ZAL	99.4	99.9	101.6	12.2	8.2	5.0	10.9	8.2	10.1
α-ZOL	102.8	94.7	94.3	10.6	12.5	0.4	7.6	11.3	6.1
β-ZAL	101.5	98.5	104.0	11.3	9.8	8.0	9.4	13.3	12.7
β-ZOL	96.7	97.2	102.9	4.3	8.6	4.1	6.0	8.8	9.6
BEA	113.6	101.5	102.4	4.2	2.5	1.4	3.8	2.2	6.1
CIT	99.8	102.4	85.7	7.4	1.5	5.8	5.4	8.0	10.1
DAS	112.3	109.8	108.0	4.8	2.7	8.1	7.0	4.0	7.9
PAT	100.8	104.6	93.0	5.2	4.3	4.3	10.1	11.9	5.8
MPA	111.8	114.1	112.9	11.8	2.1	5.1	5.3	6.7	5.9
SMC	103.3	101.2	94.1	1.6	6.7	3.3	5.8	13.1	8.6
T2	111.5	111.0	111.3	1.5	3.8	3.4	10.5	4.9	8.3
HT2	100.9	115.5	113.6	7.5	3.7	9.9	10.6	5.6	8.3

附表 2 葡萄中 36 种真菌毒素的回收率、日间精密度和日内精密度

Table S2 Recoveries, inter-day RSDs and intra-day RSDs of the 36 mycotoxins in grapes

Mycotoxin	Recoveries/%			Inter-day RSDs/%			Intra-day RSDs/%		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
DON	100.5	115.7	114.6	11.1	2.1	6.6	8.3	4.4	5.6
15-ADON	100.5	111.2	107.9	3.0	3.2	4.8	5.5	13.9	7.3
3-ADON	111.5	116.8	117.3	7.0	2.4	1.3	11.1	3.9	4.0
AFB_1	111.9	111.3	103.8	1.1	2.6	2.9	2.3	10.1	2.3
AFB_2	111.3	114.9	107.0	3.0	3.2	3.0	2.9	8.0	4.3
AFG_1	117.2	114.8	114.1	1.6	4.4	6.9	4.9	11.3	6.1
AFG_2	112.3	111.9	116.9	3.1	8.9	2.2	3.6	8.4	3.6
AFM_1	118.8	113.7	116.8	0.3	6.3	0.8	7.0	8.4	3.7
AFM_2	79.3	103.2	111.5	5.3	8.2	2.0	10.2	5.5	4.1
ALS	90.0	102.0	83.2	10.7	14.9	14.4	10.2	8.4	10.9
ALT	90.5	102.6	104.0	7.7	3.9	3.8	7.7	7.1	5.5
AME	100.1	109.8	117.9	7.6	7.6	1.8	6.0	6.5	8.5
AOH	86.7	117.0	118.2	3.8	1.8	1.7	9.4	11.2	7.5
TeA	98.2	94.0	94.3	1.8	11.4	9.2	2.3	8.7	7.4
Ten	111.5	118.2	114.9	3.8	0.7	1.1	4.9	4.5	3.6
OTA	86.5	98.1	113.0	3.3	3.2	1.1	4.1	5.6	5.5
OTB	102.5	89.1	117.8	5.2	10.9	1.3	4.0	7.6	4.3
OTC	89.8	89.0	116.8	4.6	13.1	2.0	12.5	8.7	11.8
ENNA	117.1	116.5	112.3	2.4	1.3	3.5	5.2	7.6	7.8
$ENNA_1$	115.5	115.7	111.1	1.8	1.6	2.1	3.8	6.0	3.0
ENNB	114.1	117.6	111.0	2.4	1.6	0.7	5.5	7.4	12.3
$ENNB_1$	113.2	116.5	111.5	3.3	2.6	1.8	8.8	6.3	11.4
ZAN	87.2	96.8	89.3	4.4	13.1	14.9	9.5	9.0	12.0
ZEN	86.3	98.3	90.8	10.3	11.4	14.5	11.9	6.6	11.0
α-ZAL	91.6	97.0	86.9	10.1	14.8	12.9	9.1	8.2	13.2
α-ZOL	90.5	99.8	89.3	11.9	14.2	14.2	10.1	8.5	11.4
β-ZAL	77.0	88.6	97.0	4.3	14.4	11.1	14.9	9.5	8.2
β-ZOL	82.4	93.9	85.1	10.6	13.9	13.7	13.9	9.7	13.3
BEA	117.0	113.8	112.8	2.1	2.3	4.3	6.2	5.3	6.3
CIT	111.4	113.5	79.3	7.5	3.1	1.3	10.0	7.5	9.4
DAS	117.5	118.5	117.2	1.1	1.2	1.1	5.2	3.9	3.4
PAT	94.1	81.6	80.3	7.8	7.7	3.3	7.1	12.3	10.4
MPA	105.0	102.0	116.2	4.5	1.4	0.9	3.7	3.1	4.4
SMC	116.5	116.7	109.8	3.4	1.0	3.8	7.0	10.2	3.9
T2	116.9	115.9	116.0	1.9	1.1	1.5	5.7	1.7	7.2
HT2	100.0	117.0	115.1	14.2	3.2	2.5	9.3	4.6	6.0

附表 3 梨中 36 种真菌毒素的回收率、日间精密度和日内精密度

Table S3 Recoveries, inter-day RSDs and intra-day RSDs of the 36 mycotoxins in pears

Mycotoxin	Recoveries (%)			Inter-day RSDs (%)			Intra-day RSDs (%)		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
DON	96.4	94.2	88.1	11.9	3.5	5.2	5.6	5.0	8.4
15-ADON	90.4	88.2	81.7	7.9	5.9	13.8	8.2	5.7	6.8
3-ADON	91.1	92.5	87.1	6.9	8.6	3.3	7.6	7.9	11.0
AFB_1	109.9	112.6	110.4	1.2	3.2	2.2	2.4	5.3	10.1
AFB_2	110.9	112.9	115.9	2.0	4.6	3.0	8.0	6.6	6.6
AFG_1	98.3	102.3	111.9	5.8	2.1	4.2	9.2	3.5	9.5
AFG_2	94.7	104.5	111.6	4.9	6.2	4.6	4.1	9.2	11.0
AFM_1	101.6	106.8	115.8	4.6	5.4	2.5	7.2	4.8	10.4
AFM_2	108.5	112.4	115.9	4.1	3.7	1.8	8.8	7.0	5.7
ALS	100.7	99.8	105.9	6.6	8.7	3.4	9.7	11.9	7.5
ALT	103.1	104.6	103.5	5.2	7.9	3.3	5.9	3.5	5.7
AME	100.5	97.4	97.0	12.2	7.1	5.0	8.2	5.2	8.3
AOH	95.6	101.3	98.6	9.6	12.1	12.2	4.6	6.6	9.1
TeA	98.8	96.4	85.6	5.7	2.7	7.9	6.1	7.7	12.8
Ten	104.9	94.9	87.0	2.9	2.3	4.7	5.6	6.9	8.9
OTA	93.3	85.5	84.8	5.0	6.0	5.2	4.1	3.6	6.7
OTB	104.6	88.5	87.7	1.8	2.8	3.0	3.8	10.9	14.8
OTC	102.9	99.5	87.8	8.4	5.3	5.5	4.3	10.6	14.3
ENNA	111.7	104.6	100.2	6.0	5.0	7.5	8.0	3.4	7.0
$ENNA_1$	116.3	102.4	96.2	2.4	5.0	3.8	6.1	3.2	5.7
ENNB	111.3	98.3	99.5	1.9	7.5	4.4	6.6	2.9	6.3
$ENNB_1$	111.7	105.3	98.3	2.5	4.8	4.6	7.6	2.7	7.1
ZAN	88.1	99.4	106.2	6.1	4.8	11.2	4.1	7.1	11.5
ZEN	94.1	103.8	102.7	8.7	4.7	6.6	8.9	8.1	13.4
α-ZAL	98.1	101.7	102.2	5.1	13.2	9.3	13.0	7.2	9.3
α-ZOL	100.9	115.3	103.8	12.4	2.6	8.6	5.2	4.8	11.3
β-ZAL	104.4	107.8	101.4	5.6	2.2	7.9	9.1	3.7	8.6
β-ZOL	107.5	114.8	103.1	7.3	4.1	6.7	7.2	3.1	8.6
BEA	116.3	111.2	104.0	1.9	6.0	7.5	4.4	5.8	9.2
CIT	89.8	92.0	92.3	10.3	12.2	14.9	5.3	7.1	3.5
DAS	105.4	94.1	85.7	2.3	3.4	1.8	3.5	5.3	3.1
PAT	98.6	113.0	101.6	12.5	2.5	14.2	5.7	5.2	6.5
MPA	102.4	90.5	83.9	5.1	7.4	2.8	6.0	5.4	8.4
SMC	105.6	92.0	85.9	4.9	8.1	3.1	11.9	8.5	6.4
T2	103.1	92.5	86.1	6.4	7.8	3.9	3.0	5.1	13.3
HT2	104.6	90.3	87.6	7.3	4.7	8.0	6.2	4.6	14.5

附表 4 桃中 36 种真菌毒素的回收率、日间精密度和日内精密度

Table S4 Recoveries, inter-day RSDs and intra-day RSDs of the 36 mycotoxins in peaches

Mycotoxin	Recoveries (%)			Inter-day RSDs (%)			Intra-day RSDs (%)		
	Low	Medium	High	Low	Medium	High	Low	Medium	High
DON	107.0	107.9	111.9	11.9	6.2	6.2	11.5	6.2	12.2
15-ADON	92.8	108.8	99.0	11.4	4.0	5.3	7.5	5.5	5.6
3-ADON	104.9	110.9	115.2	6.1	2.8	4.7	4.4	3.2	5.1
AFB_1	90.0	102.1	88.8	6.0	10.9	6.5	4.8	7.8	4.6
AFB_2	93.4	91.8	90.2	12.7	13.9	7.5	10.4	8.6	4.4
AFG_1	112.2	117.8	115.4	2.3	0.3	2.8	1.8	5.0	6.6
AFG_2	112.1	115.9	114.0	2.6	2.4	2.8	2.9	6.9	3.8
AFM_1	115.9	117.1	114.7	3.8	1.8	3.6	7.4	5.0	5.8
AFM_2	106.2	113.0	113.1	8.2	3.6	1.5	6.2	4.4	5.1
ALS	93.3	108.8	89.1	6.8	10.1	6.6	8.2	6.7	12.3
ALT	115.2	103.8	115.5	5.0	8.7	1.1	4.3	5.3	4.8
AME	106.5	95.1	114.6	5.9	9.7	3.6	6.3	6.9	5.4
AOH	99.7	103.4	114.6	3.4	8.5	3.9	2.7	6.0	7.4
TeA	108.0	102.0	95.9	6.3	13.8	14.5	5.9	10.6	10.1
Ten	108.4	112.8	115.3	5.3	3.8	2.5	5.2	4.2	3.4
OTA	97.0	87.6	100.9	3.1	2.0	2.1	2.1	1.3	4.8
OTB	87.1	88.5	107.2	4.6	4.2	2.2	2.9	3.0	4.3
OTC	95.7	98.3	112.0	12.9	6.2	4.6	9.3	4.1	4.2
ENNA	117.5	114.4	115.9	2.2	2.1	1.6	7.7	9.4	13.5
$ENNA_1$	117.3	114.5	113.6	0.7	2.4	1.8	5.0	14.9	8.4
ENNB	118.6	106.2	112.7	1.2	2.6	0.9	8.0	7.5	3.3
$ENNB_1$	117.3	112.5	114.7	1.4	2.2	1.6	6.1	9.9	6.3
ZAN	86.9	86.2	99.8	10.8	6.6	4.4	9.6	8.8	3.9
ZEN	81.2	92.5	102.4	5.6	6.8	5.3	9.5	5.2	8.4
α-ZAL	89.9	86.2	101.6	11.2	7.5	5.0	9.5	9.6	4.5
α-ZOL	88.7	87.9	94.3	10.4	5.5	0.4	9.5	8.5	6.2
β-ZAL	95.4	81.1	104.0	14.9	12.5	8.0	9.4	12.2	4.1
β-ZOL	96.7	86.7	102.9	9.1	10.3	4.1	8.4	10.7	4.1
BEA	117.5	110.1	116.7	2.3	3.4	1.1	6.3	4.8	7.8
CIT	96.6	102.0	100.6	6.5	1.1	11.7	4.8	4.1	8.2
DAS	115.6	117.9	117.3	4.4	1.2	0.4	7.5	8.5	2.4
PAT	86.1	81.9	93.0	0.8	7.6	4.6	8.3	14.1	7.4
MPA	93.9	105.9	117.1	6.8	6.1	1.3	6.3	3.6	7.4
SMC	104.8	114.3	111.1	4.7	4.6	4.9	3.9	4.6	4.3
T2	110.7	114.5	116.8	1.3	5.0	2.3	4.6	8.6	6.5
HT2	112.6	116.7	117.4	6.4	3.1	0.9	10.1	5.7	7.1