University of Kentucky
Regulatory Services
College of Agriculture, Food and Environment

Hemp Proficiency Testing

All Labs Precision

OL24NOV-1 (oil)

HEMP Proficiency Testing Program

Sample: OL24NOV-1 (oil) **All Labs Precision** **Issue Date: December 21, 2024**

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Δ9-THC (%AR)												
Δ9-THC (%AR)	001.10	Other LC-UV	**106**	0.1700	0.1700	0.1700	**0**	0	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**189**	0.1508	0.1502	0.1500	**0.28**	0.05	1.86	0	6.51	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	**210**	0.1460	0.1450	0.1460	**0.4**	0.07	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**173**	0.1430	0.1430	0.1420	**0.4**	0.08	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**213**	0.2390	0.2420	0.2420	**0.72**	0.15	1.86	0	6.51	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	**199**	0.1435	0.1410	0.1410	**1.02**	0.19	1.86	0	6.51	0
Δ9-THC (%AR)	001.30	Other LC-MS	**102**	0.1470	0.1480	0.1500	**1.03**	0.19	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**142**	0.1380	0.1350	0.1360	**1.12**	0.21	1.86	0	6.51	0
Δ9-THC (%AR)	001.30	Other LC-MS	**190**	0.1380	0.1360	0.1400	**1.45**	0.27	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**197**	0.1881	0.1869	0.1830	**1.43**	0.28	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**149**	0.1490	0.1520	0.1460	**2.01**	0.38	1.86	0	6.51	0
Δ9-THC (%AR)	001.03	AOAC 2018.11, M	**139**	0.1776	0.1739	0.1704	**2.07**	0.4	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**183**	0.1580	0.1510	0.1560	**2.33**	0.44	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**162**	0.1426	0.1399	0.1468	**2.43**	0.45	1.86	0	6.51	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	**103**	0.1529	0.1566	0.1467	**3.29**	0.62	1.86	0	6.51	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Δ9-THC (%AR)	001.10	Other LC-UV	**196**	0.1546	0.1445	0.1495	**3.38**	**0.64**	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**184**	0.1320	0.1279	0.1375	**3.64**	**0.67**	1.86	0	6.51	0
Δ9-THC (%AR)	001.10	Other LC-UV	**192**	0.1436	0.1457	0.1343	**4.3**	**0.8**	1.86	0	6.51	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	**125**	0.1756	0.1671	0.1542	**6.51**	**1.24**	1.86	0	6.51	0

Δ9-THCA (%AR)

Δ9-THCA (%AR)	002.10	Other LC-UV	**142**	<0.0038	<0.0038	<0.0038						1
Δ9-THCA (%AR)	002.30	Other LC-MS	**149**	<0.0040	<0.0040	<0.0040						1
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	**125**	<0.0020	<0.0020	<0.0020						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**197**	<0.0096	<0.0093	<0.0093						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**192**	0.0000	0.0000	0.0000	**0**					0
Δ9-THCA (%AR)	002.03	AOAC 2018.11, M	**139**	<0.0125	<0.0125	0.0125						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**149**	<0.0400	<0.0400	<0.0400						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**196**	<0.0210	<0.0210	<0.0210						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**106**	<0.0300	<0.0300	<0.0300						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**184**	<0.0100	<0.0100	<0.0100						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**162**	<0.0100	<0.0100	<0.0100						1
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	**210**	<0.0120	<0.0120	<0.0120						1
Δ9-THCA (%AR)	002.30	Other LC-MS	**102**	<0.0200	<0.0200	<0.0200						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**183**	<0.0080	<0.0020	<0.0020						1
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	**199**	<0.0500	<0.0500	<0.0500						1
Δ9-THCA (%AR)	002.10	Other LC-UV	**170**	<0.0300	<0.0300	<0.0300						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Δ9-THCA (%AR)	002.10	Other LC-UV	**173**	0.0000	0.0000	0.0000	**0**					0
Δ9-THCA (%AR)	002.10	Other LC-UV	**189**	0.0015	0.0011	0.0013	**15.4**	1.42				0
CBD (%AR)												
CBD (%AR)	003.10	Other LC-UV	**173**	1.9500	1.9490	1.9490	**0.03**	0.01	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**189**	1.7158	1.7129	1.7058	**0.3**	0.08	2.38	0.03	10.1	0
CBD (%AR)	003.02	AOAC 2018.11, U	**210**	1.7710	1.7710	1.7820	**0.36**	0.1	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**142**	2.1300	2.1100	2.1200	**0.47**	0.13	2.38	0.03	10.1	0
CBD (%AR)	003.02	AOAC 2018.11, U	**199**	2.0985	2.0755	2.0850	**0.55**	0.16	2.38	0.03	10.1	0
CBD (%AR)	003.02	AOAC 2018.11, U	**125**	2.1033	2.0987	2.0716	**0.82**	0.23	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**162**	2.0169	1.9962	1.9770	**1**	0.28	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**106**	2.1800	2.1600	2.2100	**1.15**	0.32	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**192**	1.8246	1.8356	1.7865	**1.42**	0.39	2.38	0.03	10.1	0
CBD (%AR)	003.03	AOAC 2018.11, M	**139**	1.9478	1.9806	1.9139	**1.71**	0.47	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**197**	2.0958	2.0428	2.0299	**1.7**	0.47	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**183**	2.0100	2.0600	2.1300	**2.92**	0.81	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**149**	1.8210	1.7750	1.8890	**3.14**	0.86	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**196**	2.0013	1.8853	1.9846	**3.2**	0.89	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**170**	1.8371	1.7368	1.8596	**3.61**	0.99	2.38	0.03	10.1	0
CBD (%AR)	003.02	AOAC 2018.11, U	**103**	2.1316	2.0363	1.9653	**4.08**	1.14	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**184**	1.7828	1.9410	1.8161	**4.52**	1.24	2.38	0.03	10.1	0
CBD (%AR)	003.30	Other LC-MS	**190**	1.8450	1.7020	1.6720	**5.31**	1.45	2.38	0.03	10.1	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBD (%AR)	003.30	Other LC-MS	**149**	1.9190	1.6360	1.7740	**7.97**	2.18	2.38	0.03	10.1	0
CBD (%AR)	003.10	Other LC-UV	**213**	1.7040	1.9310	2.0870	**10.1**	2.79	2.38	0.03	10.1	0
CBDA (%AR)												
CBDA (%AR)	004.02	AOAC 2018.11, U	**199**	<0.0500	<0.0500	<0.0500						1
CBDA (%AR)	004.30	Other LC-MS	**149**	<0.0040	<0.0040	<0.0040						1
CBDA (%AR)	004.10	Other LC-UV	**149**	<0.0400	<0.4000	<0.4000						1
CBDA (%AR)	004.10	Other LC-UV	**162**	<0.0100	<0.0100	<0.0100						1
CBDA (%AR)	004.10	Other LC-UV	**192**	0.0000	0.0000	0.0000	**0**		3.94	0	19.1	0
CBDA (%AR)	004.10	Other LC-UV	**196**	<0.0210	<0.0210	<0.0210						1
CBDA (%AR)	004.02	AOAC 2018.11, U	**210**	<0.0120	<0.0120	<0.0120						1
CBDA (%AR)	004.10	Other LC-UV	**197**	<0.0096	<0.0093	<0.0093						1
CBDA (%AR)	004.10	Other LC-UV	**106**	<0.0300	<0.0300	<0.0300						1
CBDA (%AR)	004.10	Other LC-UV	**173**	0.0000	0.0000	0.0000	**0**		3.94	0	19.1	0
CBDA (%AR)	004.10	Other LC-UV	**183**	<0.0040	<0.0040	<0.0040						1
CBDA (%AR)	004.10	Other LC-UV	**170**	<0.0300	<0.0300	<0.0300						1
CBDA (%AR)	004.10	Other LC-UV	**184**	<0.0100	<0.0100	<0.0100						1
CBDA (%AR)	004.02	AOAC 2018.11, U	**125**	<0.0020	<0.0020	<0.0020						1
CBDA (%AR)	004.10	Other LC-UV	**142**	<0.0038	<0.0038	<0.0038						1
CBDA (%AR)	004.30	Other LC-MS	**190**	0.0020	0.0020	0.0020	**0**	0	3.94	0	19.1	0
CBDA (%AR)	004.01	AOAC 2018.10	**228**	4.8890	4.9120	4.9010	**0.24**	0.07	3.94	0	19.1	0
CBDA (%AR)	004.03	AOAC 2018.11, M	**139**	0.0116	0.0108	0.0114	**3.7**	0.47	3.94	0	19.1	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBDA (%AR)	004.10	Other LC-UV	**189**	0.0028	0.0033	0.0034	**10.2**	**1.07**	3.94	0	19.1	0
CBDA (%AR)	004.02	AOAC 2018.11, U	**103**	0.0029	0.0031	0.0041	**19.1**	**2.04**	3.94	0	19.1	0
CBN (%AR)												
CBN (%AR)	005.02	AOAC 2018.11, U	**199**	<0.0500	<0.0500	<0.0500						1
CBN (%AR)	005.10	Other LC-UV	**173**	<0.0510	<0.0490	<0.0500						1
CBN (%AR)	005.10	Other LC-UV	**196**	<0.0210	<0.0210	<0.0210						1
CBN (%AR)	005.10	Other LC-UV	**149**	<0.0400	<0.0400	<0.0400						1
CBN (%AR)	005.10	Other LC-UV	**142**	<0.0113	<0.0113	<0.0113						1
CBN (%AR)	005.10	Other LC-UV	**162**	<0.0100	<0.0100	<0.0100						1
CBN (%AR)	005.30	GC-FID	**138**	<0.0200	<0.0200	0.0214						1
CBN (%AR)	005.10	Other LC-UV	**106**	<0.0300	<0.0300	<0.0300						1
CBN (%AR)	005.03	AOAC 2018.11, M	**139**	0.0095	0.0092	0.0092	**1.86**	**0.23**	4.43	1.86	10.8	0
CBN (%AR)	005.10	Other LC-UV	**197**	0.0148	0.0151	0.0144	**2.38**	**0.32**	4.43	1.86	10.8	0
CBN (%AR)	005.10	Other LC-UV	**189**	0.0093	0.0095	0.0098	**2.64**	**0.33**	4.43	1.86	10.8	0
CBN (%AR)	005.10	Other LC-UV	**192**	0.0029	0.0028	0.0027	**3.57**	**0.37**	4.43	1.86	10.8	0
CBN (%AR)	005.02	AOAC 2018.11, U	**125**	0.0109	0.0116	0.0117	**3.82**	**0.49**	4.43	1.86	10.8	0
CBN (%AR)	005.10	Other LC-UV	**183**	0.0110	0.0120	0.0120	**4.95**	**0.64**	4.43	1.86	10.8	0
CBN (%AR)	005.20	Other LC-MS	**190**	0.0110	0.0100	0.0110	**5.41**	**0.69**	4.43	1.86	10.8	0
CBN (%AR)	005.10	Other LC-UV	**213**	0.0087	0.0091	0.0079	**7.13**	**0.88**	4.43	1.86	10.8	0
CBN (%AR)	005.20	Other LC-MS	**149**	0.0120	0.0100	0.0100	**10.8**	**1.37**	4.43	1.86	10.8	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Total Δ9-THC (%AR)												
Total Δ9-THC (%AR)	006.10	Other LC-UV	**173**	0.1430	0.1430	0.1430	**0**	0	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**189**	0.1521	0.1512	0.1512	**0.34**	**0.06**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	**210**	0.1460	0.1450	0.1460	**0.4**	**0.07**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	**199**	0.1435	0.1410	0.1410	**1.02**	**0.19**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.30	Other LC-MS	**102**	0.1470	0.1480	0.1500	**1.03**	**0.19**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**142**	0.1380	0.1350	0.1350	**1.27**	**0.24**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.03	AOAC 2018.11, M	**139**	0.6238	0.6186	0.6105	**1.09**	**0.25**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**197**	0.1881	0.1869	0.1830	**1.43**	**0.28**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.40	GC-FID	**138**	0.1476	0.1526	0.1474	**1.97**	**0.37**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**149**	0.1490	0.1520	0.1460	**2.01**	**0.38**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**183**	0.1580	0.1510	0.1560	**2.33**	**0.44**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**162**	0.1426	0.1399	0.1468	**2.43**	**0.45**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	**107**	0.1290	0.1210	0.1250	**3.2**	**0.59**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	**103**	0.1529	0.1566	0.1467	**3.29**	**0.62**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**196**	0.1546	0.1445	0.1495	**3.38**	**0.64**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	**192**	0.1436	0.1457	0.1343	**4.3**	**0.8**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.30	Other LC-MS	**149**	0.1510	0.1680	0.1600	**5.33**	**1.01**	2.16	0	6.51	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	**125**	0.1756	0.1671	0.1542	**6.51**	**1.24**	2.16	0	6.51	0
Total CBD (%AR)												
Total CBD (%AR)	007.10	Other LC-UV	**173**	1.9500	1.9490	1.9490	**0.03**	**0.01**	2.08	0.03	130	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Total CBD (%AR)	007.10	Other LC-UV	**189**	1.7182	1.7158	1.7088	**0.28**	**0.08**	2.08	0.03	130	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	**210**	1.7710	1.7710	1.7820	**0.36**	**0.1**	2.08	0.03	130	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	**199**	2.0985	2.0755	2.0850	**0.55**	**0.16**	2.08	0.03	130	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	**125**	2.1033	2.0987	2.0716	**0.82**	**0.23**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**162**	2.0169	1.9962	1.9770	**1**	**0.28**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**192**	1.8246	1.8356	1.7865	**1.42**	**0.39**	2.08	0.03	130	0
Total CBD (%AR)	007.03	AOAC 2018.11, M	**139**	1.9580	1.9901	1.9239	**1.69**	**0.47**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**197**	2.0958	2.0428	2.0299	**1.7**	**0.47**	2.08	0.03	130	0
Total CBD (%AR)	007.40	GC-FID	**138**	2.3794	2.4317	2.3114	**2.54**	**0.72**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**183**	2.0100	2.0600	2.1300	**2.92**	**0.81**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**149**	1.8210	1.7750	1.8890	**3.14**	**0.86**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**196**	2.0013	1.8853	1.9846	**3.2**	**0.89**	2.08	0.03	130	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	**103**	2.1341	2.0390	1.9689	**4.05**	**1.13**	2.08	0.03	130	0
Total CBD (%AR)	007.30	Other LC-MS	**149**	1.9190	1.6360	1.7740	**7.97**	**2.18**	2.08	0.03	130	0
Total CBD (%AR)	007.10	Other LC-UV	**142**	2.1300	0.2130	0.2130	**130**	**31.78**	2.08	0.03	130	0

CBDV (%AR)

CBDV (%AR)	008.99	Other	**173**	<0.0510	<0.0490	<0.0500						1
CBDV (%AR)	008.99	Other	**106**	0.0300	0.0300	0.0300	**0**	**0**	4.88	0	14.6	0
CBDV (%AR)	008.99	Other	**189**	0.0278	0.0277	0.0277	**0.21**	**0.03**	4.88	0	14.6	0
CBDV (%AR)	008.99	Other	**142**	0.0296	0.0291	0.0294	**0.86**	**0.13**	4.88	0	14.6	0
CBDV (%AR)	008.02	AOAC 2018.11, U	**210**	0.0290	0.0300	0.0290	**1.97**	**0.29**	4.88	0	14.6	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBDV (%AR)	008.99	Other	**196**	0.0264	0.0246	0.0259	**3.62**	**0.52**	4.88	0	14.6	0
CBDV (%AR)	008.99	Other	**197**	0.0288	0.0271	0.0265	**4.34**	**0.63**	4.88	0	14.6	0
CBDV (%AR)	008.99	Other	**162**	0.0281	0.0262	0.0285	**4.45**	**0.65**	4.88	0	14.6	0
CBDV (%AR)	008.99	Other	**149**	0.0280	0.0210	0.0250	**14.2**	**2.05**	4.88	0	14.6	0
CBDV (%AR)	008.02	AOAC 2018.11, U	**183**	0.0406	0.0361	0.0481	**14.6**	**2.27**	4.88	0	14.6	0
CBDVA (%AR)												
CBDVA (%AR)	009.99	Other	**173**	0.0000	0.0000	0.0000	**0**					0
CBDVA (%AR)	009.02	AOAC 2018.11, U	**183**	<0.0020	<0.0020	<0.0020						1
CBDVA (%AR)	009.99	Other	**142**	<0.0038	<0.0038	<0.0038						1
CBDVA (%AR)	009.99	Other	**196**	<0.0210	<0.0210	<0.0210						1
CBDVA (%AR)	009.02	AOAC 2018.11, U	**210**	<0.0120	<0.0120	<0.0120						1
CBDVA (%AR)	009.99	Other	**149**	<0.0400	<0.0400	<0.0400						1
CBDVA (%AR)	009.99	Other	**197**	<0.0096	<0.0093	<0.0093						1
CBG (%AR)												
CBG (%AR)	010.99	Other	**173**	<0.0510	<0.0490	<0.0500						1
CBG (%AR)	010.99	Other	**106**	<0.0300	<0.0300	<0.0300						1
CBG (%AR)	010.99	Other	**189**	0.0481	0.0472	0.0488	**1.67**	**0.27**	6.04	1.67	36.1	0
CBG (%AR)	010.99	Other	**142**	0.0321	0.0321	0.0308	**2.37**	**0.35**	6.04	1.67	36.1	0
CBG (%AR)	010.02	AOAC 2018.11, U	**210**	0.0400	0.0380	0.0390	**2.56**	**0.39**	6.04	1.67	36.1	0
CBG (%AR)	010.99	Other	**162**	0.0318	0.0301	0.0321	**3.44**	**0.51**	6.04	1.67	36.1	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBG (%AR)	010.02	AOAC 2018.11, U	**125**	0.0345	0.0364	0.0378	**4.57**	**0.7**	6.04	1.67	36.1	0
CBG (%AR)	010.99	Other	**196**	0.0359	0.0328	0.0336	**4.72**	**0.71**	6.04	1.67	36.1	0
CBG (%AR)	010.02	AOAC 2018.11, U	**183**	0.0360	0.0385	0.0337	**6.66**	**1.01**	6.04	1.67	36.1	0
CBG (%AR)	010.99	Other	**149**	0.0360	0.0300	0.0200	**28.2**	**4.15**	6.04	1.67	36.1	0
CBG (%AR)	010.99	Other	**197**	0.0296	0.0194	0.0146	**36.1**	**5.08**	6.04	1.67	36.1	0
CBGA (%AR)												
CBGA (%AR)	011.99	Other	**197**	<0.0096	<0.0093	<0.0093						1
CBGA (%AR)	011.99	Other	**149**	<0.0400	<0.0400	<0.0400						1
CBGA (%AR)	011.99	Other	**162**	<0.0100	<0.0100	<0.0100						1
CBGA (%AR)	011.99	Other	**142**	<0.0038	<0.0038	<0.0038						1
CBGA (%AR)	011.02	AOAC 2018.11, U	**125**	<0.0020	<0.0020	<0.0020						1
CBGA (%AR)	011.02	AOAC 2018.11, U	**210**	<0.0120	<0.0120	<0.0120						1
CBGA (%AR)	011.99	Other	**189**	<0.0050	<0.0050	<0.0050						1
CBGA (%AR)	011.02	AOAC 2018.11, U	**183**	<0.0050	<0.0050	<0.0050						1
CBGA (%AR)	011.99	Other	**173**	0.0000	0.0000	0.0000	**0**					0
CBGA (%AR)	011.99	Other	**106**	<0.0300	<0.0300	<0.0300						1
CBGA (%AR)	011.99	Other	**196**	<0.0210	<0.0210	<0.0210						1
THCV (%AR)												
THCV (%AR)	012.99	Other	**196**	<0.0210	<0.0210	<0.0210						1
THCV (%AR)	012.02	AOAC 2018.11, U	**210**	<0.0120	<0.0120	<0.0120						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
THCV (%AR)	012.99	Other	**106**	<0.0300	<0.0300	<0.0300						1
THCV (%AR)	012.99	Other	**197**	<0.0096	<0.0093	<0.0093						1
THCV (%AR)	012.99	Other	**142**	<0.0038	<0.0038	<0.0038						1
THCV (%AR)	012.99	Other	**173**	0.0000	0.0000	0.0000	**0**					0
THCV (%AR)	012.02	AOAC 2018.11, U	**183**	<0.0070	<0.0070	<0.0070						1
THCV (%AR)	012.99	Other	**189**	0.0071	0.0047	0.0075	**23.5**	2.77				0
Δ8-THC (%AR)												
Δ8-THC (%AR)	013.99	Other	**138**	0.4293	0.4247	0.4237	**0.7**	**0.15**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**189**	0.3549	0.3511	0.3503	**0.7**	**0.15**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.03	AOAC 2018.11, M	**139**	0.4462	0.4447	0.4401	**0.72**	**0.16**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**173**	0.4040	0.4010	0.3970	**0.88**	**0.19**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.02	AOAC 2018.11, U	**199**	0.4335	0.4260	0.4255	**1.05**	**0.23**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**106**	0.4300	0.4200	0.4300	**1.35**	**0.3**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**142**	0.4140	0.4130	0.4020	**1.63**	**0.36**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.02	AOAC 2018.11, U	**183**	0.4310	0.4180	0.4310	**1.76**	**0.39**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**197**	0.4354	0.4209	0.4189	**2.12**	**0.47**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**149**	0.3770	0.3840	0.3650	**2.56**	**0.55**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**196**	0.4021	0.3793	0.3963	**3.02**	**0.66**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.02	AOAC 2018.11, U	**210**	0.4180	0.4430	0.4410	**3.2**	**0.71**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**162**	0.4211	0.3878	0.4174	**4.47**	**0.98**	1.98	0.7	10.1	0
Δ8-THC (%AR)	013.99	Other	**213**	0.5125	0.5730	0.6275	**10.1**	2.32	1.98	0.7	10.1	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBC (%AR)												
CBC (%AR)	014.99	Other	**106**	0.0900	0.0900	0.0900	**0**	0	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**189**	0.0820	0.0817	0.0816	**0.26**	0.04	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**173**	0.0870	0.0890	0.0870	**1.32**	0.23	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**197**	0.0910	0.0914	0.0888	**1.55**	0.27	1.84	0	3.58	0
CBC (%AR)	014.02	AOAC 2018.11, U	**125**	0.0933	0.0948	0.0916	**1.72**	0.3	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**162**	0.0880	0.0849	0.0863	**1.8**	0.31	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**142**	0.0851	0.0843	0.0818	**2.06**	0.36	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**196**	0.0886	0.0841	0.0888	**3.05**	0.53	1.84	0	3.58	0
CBC (%AR)	014.99	Other	**149**	0.0810	0.0840	0.0790	**3.09**	0.53	1.84	0	3.58	0
CBC (%AR)	014.02	AOAC 2018.11, U	**183**	0.0871	0.0873	0.0819	**3.58**	0.62	1.84	0	3.58	0
Cd (ug/g AR)												
Cd (ug/g AR)	101.04	ICP-MS	**162**	<0.2000	<0.2000	<0.2000						1
Cd (ug/g AR)	101.04	ICP-MS	**197**	<0.0943	<0.0988	<0.0942						1
Cd (ug/g AR)	101.04	ICP-MS	**106**	<0.0800	<0.0800	<0.0800						1
Cd (ug/g AR)	101.04	ICP-MS	**183**	<0.0010	<0.0010	<0.0010						1
Cd (ug/g AR)	101.04	ICP-MS	**196**	<0.0482	<0.0482	<0.0482						1
Cd (ug/g AR)	101.04	ICP-MS	**142**	0.0016	0.0014	0.0008	**32.9**	3.03				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
As (ug/g AR)												
As (ug/g AR)	102.04	ICP-MS	**196**	<0.0963	<0.0963	<0.0963						1
As (ug/g AR)	102.04	ICP-MS	**197**	<0.0943	<0.0988	<0.0942						1
As (ug/g AR)	102.04	ICP-MS	**106**	<0.0800	<0.0800	<0.0800						1
As (ug/g AR)	102.04	ICP-MS	**162**	<0.2000	<0.2000	<0.2000						1
As (ug/g AR)	102.04	ICP-MS	**183**	<0.0020	<0.0020	<0.0020						1
As (ug/g AR)	102.04	ICP-MS	**142**	0.0170	0.0135	0.0104	**24.2**	3.19				0
Hg (ug/g AR)												
Hg (ug/g AR)	103.04	ICP-MS	**142**	0.0011	0.0060	<0.0005						1
Hg (ug/g AR)	103.04	ICP-MS	**162**	<0.2000	<0.2000	<0.2000						1
Hg (ug/g AR)	103.04	ICP-MS	**196**	<0.0144	<0.0144	<0.0144						1
Hg (ug/g AR)	103.04	ICP-MS	**183**	<0.0120	<0.0120	<0.0120						1
Hg (ug/g AR)	103.04	ICP-MS	**106**	<0.0080	<0.0080	<0.0080						1
Hg (ug/g AR)	103.04	ICP-MS	**197**	<0.0943	<0.0988	<0.0942						1
Pb (ug/g AR)												
Pb (ug/g AR)	104.04	ICP-MS	**142**	<0.0005	<0.0005	<0.0050						1
Pb (ug/g AR)	104.04	ICP-MS	**196**	<0.0482	<0.0482	<0.0482						1
Pb (ug/g AR)	104.04	ICP-MS	**106**	<0.0800	<0.0800	<0.0800						1
Pb (ug/g AR)	104.04	ICP-MS	**197**	<0.0943	<0.0988	<0.0942						1
Pb (ug/g AR)	104.04	ICP-MS	**183**	<0.0020	<0.0020	<0.0020						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Pb (ug/g AR)	104.04	ICP-MS	**162**	<0.2000	<0.2000	<0.2000						1
Cu (ug/g AR)												
Cu (ug/g AR)	105.04	ICP-MS	**196**	<0.9786	<0.9786	<0.9786						1
Ni (ug/g AR)												
Ni (ug/g AR)	106.04	ICP-MS	**196**	<0.1445	<0.1445	<0.1445						1
Ni (ug/g AR)	106.04	ICP-MS	**183**	0.0860	0.1010	0.0950	**8.03**	1.41				0
Cr (ug/g AR)												
Cr (ug/g AR)	107.04	ICP-MS	**196**	<0.1445	<0.1445	<0.1445						1
Se (ug/g AR)												
Se (ug/g AR)	108.04	ICP-MS	**196**	<0.1927	<0.1927	<0.1927						1
Se (ug/g AR)	108.04	ICP-MS	**197**	<0.0943	<0.0988	<0.0942						1
Zn (ug/g AR)												
Zn (ug/g AR)	111.04	ICP-MS	**196**	<10.0000	<10.0000	<10.0000						1
Sb (ug/g AR)												
Sb (ug/g AR)	112.04	ICP-MS	**196**	<0.0482	<0.0482	<0.0482						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr Rob Mean	min	max	Flag
(-)-alpha-Bisabolol (%AR)												
(-)-alpha-Bisabolol (%A	201.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
(-)-alpha-Bisabolol (%A	201.01	GC,FID	**142**	0.0186	0.0176	0.0177	**3.07**	**0.42**				0
(-)-alpha-Bisabolol (%A	201.02	GC,MS	**196**	0.0225	0.0220	0.0183	**11**	**1.54**				0
(-)-alpha-Bisabolol (%A	201.02	GC,MS	**183**	0.0211	0.0300	0.0224	**19.6**	**2.82**				0
beta-Caryophyllene (%AR)												
beta-Caryophyllene (%	202.02	GC,MS	**183**	<0.0100	<0.0100	<0.0100						1
beta-Caryophyllene (%	202.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
beta-Caryophyllene (%	202.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
beta-Caryophyllene (%	202.02	GC,MS	**196**	0.0078	0.0082	0.0081	**2.59**	**0.31**				0
(-)-Caryophyllene oxide (%AR)												
(-)-Caryophyllene oxide	203.01	GC,FID	**142**	<0.0050	<0.0050	<0.0050						1
(-)-Caryophyllene oxide	203.02	GC,MS	**196**	<0.0158	<0.0158	<0.0158						1
(-)-Caryophyllene oxide	203.02	GC,MS	**183**	0.0108	0.0094	0.0089	**10.2**	**1.27**				0
Geraniol (%AR)												
Geraniol (%AR)	204.02	GC,MS	**196**	<0.5040	<0.5040	<0.5040						1
Geraniol (%AR)	204.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
Geraniol (%AR)	204.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
Geraniol (%AR)	204.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
alpha-Humulene (%AR)												
alpha-Humulene (%AR)	205.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
alpha-Humulene (%AR)	205.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
alpha-Humulene (%AR)	205.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
alpha-Humulene (%AR)	205.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
d-Limonene (%AR)												
d-Limonene (%AR)	206.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
d-Limonene (%AR)	206.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
d-Limonene (%AR)	206.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
d-Limonene (%AR)	206.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
Linalool (%AR)												
Linalool (%AR)	207.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
Linalool (%AR)	207.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
Linalool (%AR)	207.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
Linalool (%AR)	207.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
beta-Myrcene (%AR)												
beta-Myrcene (%AR)	208.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
beta-Myrcene (%AR)	208.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
beta-Myrcene (%AR)	208.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
beta-Myrcene (%AR)	208.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
Nopinene (%AR)												
Nopinene (%AR)	209.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
Ocimene (%AR)												
Ocimene (%AR)	210.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
Ocimene (%AR)	210.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
Ocimene (%AR)	210.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
Ocimene (%AR)	210.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
alpha-Pinene (%AR)												
alpha-Pinene (%AR)	211.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
alpha-Pinene (%AR)	211.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
alpha-Pinene (%AR)	211.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
alpha-Pinene (%AR)	211.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
(-)-beta-Pinene (%AR)												
(-)-beta-Pinene (%AR)	212.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
(-)-beta-Pinene (%AR)	212.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
(-)-beta-Pinene (%AR)	212.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
alpha-Terpinene (%AR)												
alpha-Terpinene (%AR)	213.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
alpha-Terpinene (%AR)	213.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
alpha-Terpinene (%AR)	213.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
alpha-Terpinene (%AR)	213.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
gamma-Terpinene (%AR)												
gamma-Terpinene (%A	214.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
gamma-Terpinene (%A	214.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
gamma-Terpinene (%A	214.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
alpha-Terpinolene (%AR)												
alpha-Terpinolene (%A	215.02	GC,MS	**162**	<0.0100	<0.0100	<0.0100						1
alpha-Terpinolene (%A	215.02	GC,MS	**196**	<0.0078	<0.0078	<0.0078						1
alpha-Terpinolene (%A	215.02	GC,MS	**183**	<0.0020	<0.0020	<0.0020						1
alpha-Terpinolene (%A	215.01	GC,FID	**142**	<0.0010	<0.0010	<0.0010						1
Moisture (%AR)												
Moisture (%AR)	500.99	Other	**142**	2.2000	3.0000	1.8000	**26.2**	**7.45**				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	

1. Flag definitions: 1 (Lab RSDr not calculated because there were less than 3 numeric lab results)

2. Statistical parameters of robust mean, minimum, and maximum for RSDr only shown only if there were 6 or more lab RSDr values.

3. AR refers to concentration on as-received basis. DW refers to concentration on dry weight basis.c