

Hemp Proficiency Testing

All Labs Precision

HM25NOV-1 (Hemp)



Sample: HM25NOV-1 (Hemp)

All Labs Precision

Issue Date: January 27, 2026

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	189	0.1687	0.1687	0.1686	0.03	0.01	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	183	0.18	0.182	0.181	0.55	0.11	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	116	0.1651	0.1673	0.1652	0.75	0.14	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.01	AOAC 2018.10	148	0.148	0.145	0.145	1.19	0.22	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	199	0.1635	0.1665	0.1625	1.27	0.24	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.30	Other LC-MS	164	0.1434	0.1397	0.1398	1.5	0.28	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	154	0.1408	0.1442	0.1453	1.64	0.31	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	144	0.1449	0.1431	0.1483	1.82	0.34	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	161	0.1317	0.1371	0.1332	2.08	0.39	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.01	AOAC 2018.10	101	0.173	0.166	0.171	2.12	0.41	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	142	0.1529	0.1578	0.1514	2.17	0.41	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.30	Other LC-MS	102	0.166	0.159	0.164	2.21	0.42	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	152	0.2128	0.2179	0.2248	2.76	0.55	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	173	0.16	0.167	0.158	2.92	0.56	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	184	0.1661	0.1592	0.1561	3.19	0.61	3.45	0.03	21.2	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	106	0.16	0.15	0.16	3.69	0.7	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	213	0.0955	0.0945	0.102	4.18	0.74	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.01	AOAC 2018.10	175	0.16	0.162	0.15	4.09	0.78	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	149	0.141	0.144	0.153	4.28	0.8	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	165	0.1513	0.1409	0.1559	5.14	0.97	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	163	0.149	0.163	0.167	5.92	1.13	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	192	0.1475	0.14	0.159	6.43	1.21	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	103	0.1398	0.1602	0.1396	8.08	1.52	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.01	AOAC 2018.10	115	0.1416	0.1379	0.117	10	1.86	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.03	AOAC 2018.11, M	139	0.1516	0.1786	0.1426	11.9	2.26	3.45	0.03	21.2	0
Δ9-THC (%AR)	001.10	Other LC-UV	204	0.228	0.162	0.1596	21.2	4.12	3.45	0.03	21.2	0

Δ9-THCA (%AR)

Δ9-THCA (%AR)	002.10	Other LC-UV	173	0	0	0						1
Δ9-THCA (%AR)	002.10	Other LC-UV	106	0.04	0.04	0.04	0	0	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	116	0.0154	0.0151	0.0154	1.13	0.15	8.9	0	98.3	0
Δ9-THCA (%AR)	002.30	Other LC-MS	164	0.0151	0.0148	0.0147	1.4	0.19	8.9	0	98.3	0
Δ9-THCA (%AR)	002.01	AOAC 2018.10	148	0.028	0.029	0.028	2.04	0.3	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	144	0.017	0.0166	0.0174	2.35	0.32	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	189	0.0312	0.0326	0.0328	2.71	0.41	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	165	0.0196	0.0195	0.0207	3.34	0.47	8.9	0	98.3	0
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	152	0.1077	0.1021	0.1065	2.8	0.5	8.9	0	98.3	0

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	142	0.0082	0.009	0.0087	4.68	0.58	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	192	0.0974	0.0905	0.0952	3.74	0.66	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	184	0.0156	0.0161	0.0185	9.26	1.26	8.9	0	98.3	0
Δ9-THCA (%AR)	002.01	AOAC 2018.10	101	0.015	0.017	0.019	11.8	1.6	8.9	0	98.3	0
Δ9-THCA (%AR)	002.01	AOAC 2018.10	115	0.0151	0.0132	0.0117	12.8	1.68	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	183	0.013	0.017	0.014	14.2	1.89	8.9	0	98.3	0
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	103	0.0113	0.0141	0.0165	18.6	2.46	8.9	0	98.3	0
Δ9-THCA (%AR)	002.01	AOAC 2018.10	175	0.018	0.01	0.012	31.2	4.09	8.9	0	98.3	0
Δ9-THCA (%AR)	002.03	AOAC 2018.11, M	139	0.0125	0.0162	0.0078	34.6	4.48	8.9	0	98.3	0
Δ9-THCA (%AR)	002.10	Other LC-UV	204	0.0524	0.0119	0.0094	98.3	14.12	8.9	0	98.3	0

CBD (%AR)

CBD (%AR)	003.10	Other LC-UV	189	5.7148	5.7194	5.7203	0.05	0.02	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	204	5.8516	5.9024	5.8547	0.48	0.16	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	173	5.454	5.442	5.513	0.7	0.22	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	149	5.363	5.43	5.364	0.71	0.23	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	106	6.22	6.19	6.31	1	0.33	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	163	6.536	6.648	6.679	1.14	0.38	2.75	0.05	10.4	0
CBD (%AR)	003.02	AOAC 2018.11, U	199	5.6465	5.5755	5.509	1.23	0.4	2.75	0.05	10.4	0
CBD (%AR)	003.30	Other LC-MS	164	5.6587	5.5525	5.5127	1.35	0.44	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	144	5.9242	5.753	5.9039	1.6	0.52	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	142	5.2965	5.5265	5.3265	2.32	0.75	2.75	0.05	10.4	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBD (%AR)	003.02	AOAC 2018.11, U	161	4.9728	5.1782	5.2026	2.47	0.79	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	154	4.8868	4.936	4.6893	2.7	0.86	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	183	5.95	6.333	6.223	3.2	1.05	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	213	4.027	3.968	4.234	3.43	1.06	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	116	5.6989	6.1571	5.9145	3.87	1.27	2.75	0.05	10.4	0
CBD (%AR)	003.01	AOAC 2018.10	152	5.5469	5.0422	4.9314	6.34	2.03	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	184	6.097	5.865	5.331	6.81	2.22	2.75	0.05	10.4	0
CBD (%AR)	003.10	Other LC-UV	192	6.9895	6.101	6.6238	6.8	2.26	2.75	0.05	10.4	0
CBD (%AR)	003.03	AOAC 2018.11, M	139	5.0837	5.7605	4.6996	10.4	3.32	2.75	0.05	10.4	0

CBDA (%AR)

CBDA (%AR)	004.10	Other LC-UV	189	1.9892	1.988	1.9892	0.03	0.01	2.75	0.03	13.8	0
CBDA (%AR)	004.02	AOAC 2018.11, U	199	2.089	2.1065	2.0855	0.54	0.15	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	204	2.1466	2.1745	2.1514	0.69	0.19	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	173	1.843	1.831	1.817	0.71	0.2	2.75	0.03	13.8	0
CBDA (%AR)	004.30	Other LC-MS	164	1.8853	1.8567	1.8608	0.83	0.23	2.75	0.03	13.8	0
CBDA (%AR)	004.02	AOAC 2018.11, U	152	1.8449	1.8242	1.8054	1.08	0.3	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	106	2.11	2.16	2.13	1.18	0.33	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	163	2.122	2.177	2.205	1.95	0.55	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	149	1.983	1.958	1.881	2.74	0.76	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	116	1.8643	1.9724	1.9175	2.82	0.78	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	184	2.133	2.242	2.128	2.97	0.84	2.75	0.03	13.8	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	183	2.109	2.256	2.178	3.37	0.95	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	144	2.0247	1.9224	2.0581	3.53	0.98	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	213	1.2755	1.271	1.366	4.11	1.07	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	154	1.422	1.4227	1.3228	4.14	1.09	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	142	1.6874	1.8263	1.6931	4.53	1.23	2.75	0.03	13.8	0
CBDA (%AR)	004.02	AOAC 2018.11, U	161	1.7696	1.7922	1.6299	5.08	1.38	2.75	0.03	13.8	0
CBDA (%AR)	004.10	Other LC-UV	192	2.3697	2.0141	2.1704	8.16	2.3	2.75	0.03	13.8	0
CBDA (%AR)	004.03	AOAC 2018.11, M	139	2.1094	2.4615	1.8716	13.8	3.88	2.75	0.03	13.8	0

CBN (%AR)												
CBN (%AR)	005.10	Other LC-UV	189	0.0832	0.0828	0.0828	0.28	0.05	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	183	0.087	0.089	0.088	1.14	0.2	4.05	0.28	11.2	0
CBN (%AR)	005.30	GC-FID	163	0.333	0.337	0.33	1.05	0.22	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	173	0.074	0.073	0.072	1.37	0.23	4.05	0.28	11.2	0
CBN (%AR)	005.02	AOAC 2018.11, U	199	0.077	0.0775	0.0755	1.36	0.23	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	142	0.069	0.0708	0.069	1.49	0.25	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	213	0.0463	0.0459	0.0474	1.67	0.26	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	144	0.068	0.0689	0.0659	2.28	0.38	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	149	0.068	0.071	0.072	2.96	0.5	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	116	0.0951	0.0916	0.0897	2.97	0.52	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	154	0.0671	0.0731	0.0687	4.46	0.75	4.05	0.28	11.2	0
CBN (%AR)	005.30	GC-FID	116	0.0815	0.0728	0.0789	5.75	0.98	4.05	0.28	11.2	0

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									Rob Mean	min	max	
CBN (%AR)	005.10	Other LC-UV	204	0.0875	0.0797	0.0785	5.97	1.03	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	192	0.1097	0.0952	0.1038	7.09	1.26	4.05	0.28	11.2	0
CBN (%AR)	005.30	GC-FID	138	0.1093	0.0917	0.0922	10.3	1.81	4.05	0.28	11.2	0
CBN (%AR)	005.03	AOAC 2018.11, M	139	0.0567	0.0682	0.0563	11.2	1.84	4.05	0.28	11.2	0
CBN (%AR)	005.10	Other LC-UV	106	0.09	0.11	0.11	11.2	1.99	4.05	0.28	11.2	0

Total Δ9-THC (%AR)

Total Δ9-THC (%AR)	006.10	Other LC-UV	189	0.196	0.1973	0.1974	0.4	0.08	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	116	0.1786	0.1805	0.1787	0.6	0.12	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	148	0.172	0.17	0.17	0.68	0.13	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	169	0.1508	0.1526	0.15	0.88	0.17	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	199	0.1854	0.1884	0.1844	1.12	0.22	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	183	0.192	0.197	0.193	1.36	0.27	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.30	Other LC-MS	164	0.1566	0.1527	0.1527	1.46	0.28	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	154	0.1408	0.1442	0.1453	1.64	0.31	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	138	0.1986	0.2031	0.2056	1.75	0.35	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	144	0.1598	0.1577	0.1636	1.86	0.36	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	101	0.186	0.181	0.188	1.95	0.38	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	152	0.3073	0.3075	0.3182	2.01	0.42	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	142	0.1601	0.1657	0.159	2.22	0.42	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	173	0.16	0.167	0.158	2.92	0.56	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	163	0.214	0.218	0.206	2.87	0.57	4.19	0.4	137	0

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									Rob Mean	min	max	
Total Δ9-THC (%AR)	006.40	GC-FID	116	0.1745	0.1649	0.1673	2.96	0.57	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.50	GC-MS	231	0.1525	0.1475	0.1569	3.09	0.58	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	149	0.152	0.144	0.153	3.3	0.62	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	190	0.1503	0.1405	0.1506	3.91	0.73	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	175	0.1758	0.1708	0.1605	4.62	0.89	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	165	0.1685	0.158	0.1741	4.9	0.94	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	192	0.2329	0.2194	0.2424	4.99	1	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.30	Other LC-MS	102	0.1831	0.159	0.164	7.54	1.45	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	103	0.1497	0.1725	0.154	7.63	1.45	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	114	0.1711	0.1976	0.1658	9.56	1.85	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	170	0.1846	0.1523	0.1643	9.77	1.87	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	115	0.1548	0.1495	0.1273	10.1	1.9	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.03	AOAC 2018.11, M	139	0.1626	0.1927	0.1494	13.2	2.53	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	204	0.274	0.1724	0.1678	29.3	5.79	4.19	0.4	137	0
Total Δ9-THC (%AR)	006.40	GC-FID	153	2.055	0.1555	0.1724	137	33.28	4.19	0.4	137	0

Total CBD (%AR)

Total CBD (%AR)	007.10	Other LC-UV	189	7.4594	7.4628	7.4648	0.04	0.01	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	173	7.07	7.048	7.11	0.44	0.15	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	204	7.7342	7.8094	7.7415	0.53	0.18	2.85	0.04	11.3	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	199	7.4786	7.4229	7.338	0.96	0.32	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	149	7.102	7.147	7.014	0.95	0.32	2.85	0.04	11.3	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)	007.30	Other LC-MS	164	7.3121	7.1808	7.1446	1.22	0.41	2.85	0.04	11.3	0
Total CBD (%AR)	007.40	GC-FID	163	7.877	8.143	8.046	1.68	0.57	2.85	0.04	11.3	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	161	6.5247	6.7499	6.632	1.7	0.57	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	144	7.7003	7.4393	7.7093	2.01	0.68	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	142	6.7763	7.1281	6.8113	2.81	0.94	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	154	6.1339	6.1837	5.8494	2.98	0.98	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	116	7.5962	7.8869	8.0503	2.93	1	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	183	7.8	8.311	8.133	3.21	1.1	2.85	0.04	11.3	0
Total CBD (%AR)	007.40	GC-FID	116	8.1192	7.8095	8.3782	3.51	1.21	2.85	0.04	11.3	0
Total CBD (%AR)	007.40	GC-FID	169	7.701	8.2	7.626	3.98	1.36	2.85	0.04	11.3	0
Total CBD (%AR)	007.40	GC-FID	138	7.876	7.93	8.496	4.24	1.45	2.85	0.04	11.3	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	152	7.1649	6.6421	6.5147	5.09	1.7	2.85	0.04	11.3	0
Total CBD (%AR)	007.10	Other LC-UV	192	9.0677	7.8674	8.5273	7.08	2.45	2.85	0.04	11.3	0
Total CBD (%AR)	007.40	GC-FID	170	7.4795	6.4449	6.9298	7.45	2.5	2.85	0.04	11.3	0
Total CBD (%AR)	007.03	AOAC 2018.11, M	139	6.9336	7.9193	6.341	11.3	3.79	2.85	0.04	11.3	0

CBDV (%AR)

CBDV (%AR)	008.99	Other	189	0.032	0.0324	0.0324	0.72	0.11				0
CBDV (%AR)	008.99	Other	173	0.096	0.095	0.093	1.61	0.28				0
CBDV (%AR)	008.02	AOAC 2018.11, U	183	0.059	0.063	0.06	3.43	0.56				0
CBDV (%AR)	008.99	Other	142	0.0388	0.0429	0.041	5.02	0.78				0
CBDV (%AR)	008.99	Other	106	0.05	0.07	0.05	20.4	3.32				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
		CBDVA (%AR)										
CBDVA (%AR)	009.02	AOAC 2018.11, U	183	0.038	0.038	0.039	1.51	0.23				0
CBDVA (%AR)	009.99	Other	142	0.0179	0.0192	0.0185	3.51	0.48				0
CBDVA (%AR)	009.01	AOAC 2018.10	149	0.028	0.026	0.026	4.33	0.63				0
		CBG (%AR)										
CBG (%AR)	010.99	Other	106	0.25	0.25	0.25	0	0	1.71	0	4.01	0
CBG (%AR)	010.99	Other	189	0.3065	0.3032	0.3042	0.56	0.12	1.71	0	4.01	0
CBG (%AR)	010.02	AOAC 2018.11, U	183	0.263	0.262	0.259	0.8	0.16	1.71	0	4.01	0
CBG (%AR)	010.99	Other	204	0.2385	0.243	0.2443	1.26	0.25	1.71	0	4.01	0
CBG (%AR)	010.99	Other	173	0.217	0.215	0.21	1.68	0.34	1.71	0	4.01	0
CBG (%AR)	010.99	Other	142	0.1986	0.1879	0.2015	3.65	0.72	1.71	0	4.01	0
CBG (%AR)	010.01	AOAC 2018.10	149	0.207	0.209	0.194	4.01	0.79	1.71	0	4.01	0
		CBGA (%AR)										
CBGA (%AR)	011.99	Other	106	0.11	0.11	0.11	0	0	2.14	0	5.36	0
CBGA (%AR)	011.99	Other	189	0.1581	0.1581	0.1584	0.11	0.02	2.14	0	5.36	0
CBGA (%AR)	011.02	AOAC 2018.11, U	183	0.155	0.155	0.153	0.75	0.14	2.14	0	5.36	0
CBGA (%AR)	011.99	Other	173	0.131	0.131	0.125	2.69	0.49	2.14	0	5.36	0
CBGA (%AR)	011.01	AOAC 2018.10	149	0.129	0.13	0.123	2.97	0.55	2.14	0	5.36	0
CBGA (%AR)	011.99	Other	142	0.1054	0.1114	0.1112	3.12	0.56	2.14	0	5.36	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBGA (%AR)	011.99	Other	204	0.1386	0.1534	0.142	5.36	1	2.14	0	5.36	0
THCV (%AR)												
THCV (%AR)	012.99	Other	173	0	0	0						1
Δ8-THC (%AR)												
Δ8-THC (%AR)	013.99	Other	173	0	0	0						1
Δ8-THC (%AR)	013.99	Other	213	0.086	0.0851	0.0893	2.55	0.44				0
Δ8-THC (%AR)	013.99	Other	138	0.0758	0.0811	0.0794	3.44	0.59				0
Δ8-THC (%AR)	013.99	Other	189	0.0131	0.0136	0.0122	5.47	0.71				0
CBC (%AR)												
CBC (%AR)	014.99	Other	106	0.24	0.24	0.24	0	0	1.34	0	13.1	0
CBC (%AR)	014.99	Other	189	0.279	0.2793	0.2791	0.05	0.01	1.34	0	13.1	0
CBC (%AR)	014.99	Other	173	0.215	0.213	0.213	0.54	0.11	1.34	0	13.1	0
CBC (%AR)	014.01	AOAC 2018.10	149	0.226	0.224	0.229	1.11	0.22	1.34	0	13.1	0
CBC (%AR)	014.02	AOAC 2018.11, U	183	0.281	0.29	0.284	1.61	0.33	1.34	0	13.1	0
CBC (%AR)	014.99	Other	142	0.2175	0.2273	0.2182	2.47	0.49	1.34	0	13.1	0
CBC (%AR)	014.99	Other	204	0.3049	0.2512	0.2401	13.1	2.68	1.34	0	13.1	0
Cd (ug/g AR)												
Cd (ug/g AR)	101.04	ICP-MS	142	0.1918	0.1915	0.1932	0.47	0.09	5.66	0.47	13.5	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Cd (ug/g AR)	101.04	ICP-MS	106	0.172	0.169	0.173	1.21	0.23	5.66	0.47	13.5	0
Cd (ug/g AR)	101.04	ICP-MS	183	0.156	0.154	0.151	1.64	0.31	5.66	0.47	13.5	0
Cd (ug/g AR)	101.04	ICP-MS	102	0.1821	0.1886	0.2044	5.98	1.17	5.66	0.47	13.5	0
Cd (ug/g AR)	101.04	ICP-MS	164	0.179	0.188	0.151	11.2	2.15	5.66	0.47	13.5	0
Cd (ug/g AR)	101.03	ICP-OES	192	0.13	0.11	0.1	13.5	2.44	5.66	0.47	13.5	0

As (ug/g AR)

As (ug/g AR)	102.04	ICP-MS	183	0.079	0.079	0.077	1.47	0.25				0
As (ug/g AR)	102.04	ICP-MS	102	0.0722	0.0736	0.0814	6.55	1.11				0
As (ug/g AR)	102.04	ICP-MS	142	0.0779	0.0698	0.0649	9.26	1.56				0
As (ug/g AR)	102.04	ICP-MS	164	0.074	0.061	0.076	11.6	1.95				0

Hg (ug/g AR)

Hg (ug/g AR)	103.03	ICP-OES	192	0	0	0						1
Hg (ug/g AR)	103.04	ICP-MS	142	0.0088	0.0091	0.0086	2.85	0.35				0
Hg (ug/g AR)	103.99	Other	102	0.0086	0.0092	0.0091	3.59	0.44				0

Pb (ug/g AR)

Pb (ug/g AR)	104.04	ICP-MS	102	0.357	0.3572	0.3541	0.49	0.1	6.9	0.49	24	0
Pb (ug/g AR)	104.04	ICP-MS	183	0.283	0.287	0.287	0.81	0.17	6.9	0.49	24	0
Pb (ug/g AR)	104.04	ICP-MS	164	0.271	0.298	0.31	6.82	1.42	6.9	0.49	24	0
Pb (ug/g AR)	104.04	ICP-MS	162	0.3425	0.3965	0.364	7.39	1.59	6.9	0.49	24	0

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	142	0.2475	0.21	0.2281	8.21	1.65	6.9	0.49	24	0
Pb (ug/g AR)	104.04	ICP-MS	106	0.357	0.335	0.299	8.86	1.88	6.9	0.49	24	0
Pb (ug/g AR)	104.03	ICP-OES	192	0.54	0.56	0.35	24	5.39	6.9	0.49	24	0
Cu (ug/g AR)												
Cu (ug/g AR)	105.04	ICP-MS	142	13.5016	13.3583	14.1284	3	1.11				0
Ni (ug/g AR)												
Ni (ug/g AR)	106.04	ICP-MS	142	1.3414	1.3369	1.3084	1.35	0.35				0
Cr (ug/g AR)												
Cr (ug/g AR)	107.04	ICP-MS	142	0.4008	0.45	0.4343	5.87	1.29				0
Se (ug/g AR)												
Se (ug/g AR)	108.04	ICP-MS	142	0.0883	0.0782	0.0801	6.53	1.12				0
Ag (ug/g AR)												
Ag (ug/g AR)	109.04	ICP-MS	142	0.0124	0.0131	0.0121	4.09	0.53				0
Zn (ug/g AR)												
Zn (ug/g AR)	111.04	ICP-MS	142	58.324	59.6313	60.0322	1.51	0.7				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
(-)-alpha-Bisabolol (%AR)												
(-)-alpha-Bisabolol (%A	201.02	GC,MS	183	0.11	0.111	0.111	0.52	0.09				0
(-)-alpha-Bisabolol (%A	201.02	GC,MS	162	0.0314	0.0321	0.0272	8.77	1.3				0
(-)-alpha-Bisabolol (%A	201.01	GC,FID	142	1500	1400	1360	5.08	3.78				0
beta-Caryophyllene (%AR)												
beta-Caryophyllene (%)	202.02	GC,MS	183	0.042	0.043	0.042	1.36	0.21				0
beta-Caryophyllene (%)	202.02	GC,MS	162	0.039	0.0392	0.0349	6.44	0.99				0
beta-Caryophyllene (%)	202.01	GC,FID	142	665	644	643	1.91	1.26				0
(-)-Caryophyllene oxide (%AR)												
(-)-Caryophyllene oxide	203.02	GC,MS	183	0.019	0.019	0.02	2.99	0.41				0
(-)-Caryophyllene oxide	203.01	GC,FID	142	289	284	279	1.76	1.03				0
alpha-Humulene (%AR)												
alpha-Humulene (%AR)	205.02	GC,MS	183	0.019	0.019	0.019	0	0				0
alpha-Humulene (%AR)	205.02	GC,MS	162	0.018	0.0181	0.0149	10.7	1.46				0
alpha-Humulene (%AR)	205.01	GC,FID	142	302	306	317	2.52	1.49				0
Moisture (%AR)												
Moisture (%AR)	500.70	Commerc. Anal.	189	5.015	5.015	5.015	0	0	2.67	0	8.31	0
Moisture (%AR)	500.50	AOAC 930.15	199	9.7345	9.715	9.729	0.1	0.04	2.67	0	8.31	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Moisture (%AR)	500.99	Other	142	4.41	4.37	4.33	0.92	0.29	2.67	0	8.31	0
Moisture (%AR)	500.99	Other	165	7.1101	7.1938	7.0728	0.87	0.29	2.67	0	8.31	0
Moisture (%AR)	500.70	Commerc. Anal.	106	5.96	5.97	6.15	1.77	0.58	2.67	0	8.31	0
Moisture (%AR)	500.50	AOAC 930.15	192	9.8627	9.6611	9.9905	1.69	0.6	2.67	0	8.31	0
Moisture (%AR)	500.99	Other	102	6	6	5.8	1.95	0.64	2.67	0	8.31	0
Moisture (%AR)	500.70	Commerc. Anal.	116	5.75	5.67	5.5	2.26	0.74	2.67	0	8.31	0
Moisture (%AR)	500.70	Commerc. Anal.	183	7.59	7.68	7.94	2.35	0.8	2.67	0	8.31	0
Moisture (%AR)	500.99	Other	103	6.08	6.16	6.43	2.95	0.97	2.67	0	8.31	0
Moisture (%AR)	500.70	Commerc. Anal.	153	3.46	3.44	3.19	4.47	1.34	2.67	0	8.31	0
Moisture (%AR)	500.70	Commerc. Anal.	154	4.86	4.83	5.31	5.38	1.72	2.67	0	8.31	0
Moisture (%AR)	500.70	Commerc. Anal.	162	7.77	8.82	8.82	7.16	2.47	2.67	0	8.31	0
Moisture (%AR)	500.50	AOAC 930.15	210	8.93	7.74	9.01	8.31	2.87	2.67	0	8.31	0

Δ9-THC (%DW)

Δ9-THC (%DW)	501.10	Other LC-UV	189	0.1776	0.1776	0.1775	0.03	0.01	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.10	Other LC-UV	116	0.1749	0.1773	0.1751	0.76	0.15	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.01	AOAC 2018.10	210	0.171	0.17	0.167	1.23	0.24	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.02	AOAC 2018.11, U	199	0.1811	0.1844	0.18	1.26	0.24	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.10	Other LC-UV	162	0.1808	0.1805	0.1864	1.82	0.35	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.10	Other LC-UV	154	0.148	0.1515	0.1535	1.84	0.35	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.10	Other LC-UV	142	0.1599	0.1651	0.1582	2.23	0.43	1.64	0.03	5.1	0
Δ9-THC (%DW)	501.30	Other LC-MS	102	0.177	0.169	0.174	2.33	0.45	1.64	0.03	5.1	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Δ9-THC (%DW)	501.10	Other LC-UV	165	0.1629	0.1518	0.1678	5.1	0.97	1.64	0.03	5.1	0
Δ9-THCA (%DW)												
Δ9-THCA (%DW)	502.10	Other LC-UV	116	0.0163	0.016	0.0163	1.07	0.14				0
Δ9-THCA (%DW)	502.10	Other LC-UV	189	0.0328	0.0343	0.0345	2.74	0.41				0
Δ9-THCA (%DW)	502.10	Other LC-UV	165	0.0211	0.021	0.0223	3.37	0.47				0
Δ9-THCA (%DW)	502.01	AOAC 2018.10	210	0.014	0.015	0.014	4.03	0.53				0
Δ9-THCA (%DW)	502.10	Other LC-UV	142	0.0086	0.0094	0.0091	4.47	0.55				0
CBD (%DW)												
CBD (%DW)	503.10	Other LC-UV	189	6.0165	6.0214	6.0223	0.05	0.02	1.83	0.05	3.87	0
CBD (%DW)	503.01	AOAC 2018.10	210	0.183	0.183	0.18	0.95	0.18	1.83	0.05	3.87	0
CBD (%DW)	503.02	AOAC 2018.11, U	199	6.2554	6.1754	6.1027	1.24	0.41	1.83	0.05	3.87	0
CBD (%DW)	503.10	Other LC-UV	162	7.0036	6.7519	6.8016	1.95	0.65	1.83	0.05	3.87	0
CBD (%DW)	503.10	Other LC-UV	142	5.5409	5.779	5.5676	2.32	0.75	1.83	0.05	3.87	0
CBD (%DW)	503.10	Other LC-UV	154	5.1364	5.1865	4.9523	2.42	0.77	1.83	0.05	3.87	0
CBD (%DW)	503.10	Other LC-UV	116	6.0396	6.5251	6.268	3.87	1.28	1.83	0.05	3.87	0
CBDA (%DW)												
CBDA (%DW)	504.10	Other LC-UV	189	2.0943	2.0929	2.0942	0.04	0.01	2.3	0.04	4.53	0
CBDA (%DW)	504.02	AOAC 2018.11, U	199	2.3143	2.3332	2.3103	0.53	0.15	2.3	0.04	4.53	0
CBDA (%DW)	504.01	AOAC 2018.10	210	6.527	6.519	6.449	0.66	0.22	2.3	0.04	4.53	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBDA (%DW)	504.10	Other LC-UV	116	1.9758	2.0903	2.0322	2.82	0.79	2.3	0.04	4.53	0
CBDA (%DW)	504.10	Other LC-UV	154	1.4946	1.4949	1.397	3.86	1.02	2.3	0.04	4.53	0
CBDA (%DW)	504.10	Other LC-UV	162	2.3832	2.2447	2.2301	3.7	1.05	2.3	0.04	4.53	0
CBDA (%DW)	504.10	Other LC-UV	142	1.7652	1.9097	1.7697	4.53	1.24	2.3	0.04	4.53	0

CBN (%DW)

CBN (%DW)	505.10	Other LC-UV	189	0.0876	0.0872	0.0872	0.26	0.05	3.37	0.26	9.32	0
CBN (%DW)	505.10	Other LC-UV	162	0.0878	0.0884	0.0863	1.24	0.21	3.37	0.26	9.32	0
CBN (%DW)	505.02	AOAC 2018.11, U	199	0.0853	0.0858	0.0836	1.36	0.24	3.37	0.26	9.32	0
CBN (%DW)	505.10	Other LC-UV	142	0.0722	0.0741	0.0721	1.55	0.26	3.37	0.26	9.32	0
CBN (%DW)	505.10	Other LC-UV	116	0.1008	0.0971	0.0951	2.96	0.52	3.37	0.26	9.32	0
CBN (%DW)	505.10	Other LC-UV	154	0.0705	0.0768	0.0726	4.38	0.74	3.37	0.26	9.32	0
CBN (%DW)	505.10	Other LC-UV	192	0.1214	0.1058	0.1151	6.88	1.24	3.37	0.26	9.32	0
CBN (%DW)	505.30	GC-FID	116	0.0864	0.0722	0.0836	9.32	1.6	3.37	0.26	9.32	0

Total Δ9-THC (%DW)

Total Δ9-THC (%DW)	506.10	Other LC-UV	189	0.2064	0.2077	0.2078	0.38	0.07	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.10	Other LC-UV	116	0.1893	0.1913	0.1894	0.59	0.12	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.01	AOAC 2018.10	210	2.442	2.414	2.449	0.76	0.22	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.10	Other LC-UV	154	0.148	0.1515	0.1535	1.84	0.35	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.10	Other LC-UV	162	0.1808	0.1805	0.1864	1.82	0.35	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.10	Other LC-UV	142	0.1675	0.1733	0.1662	2.24	0.43	3.16	0.38	14.4	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 (%DW)	506.40	GC-FID	116	0.1849	0.1748	0.1773	2.94	0.57	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.02	AOAC 2018.11, U	199	0.1943	0.2063	0.2019	3.02	0.6	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.10	Other LC-UV	165	0.1814	0.1702	0.1873	4.84	0.94	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.10	Other LC-UV	192	0.2578	0.2437	0.269	4.94	1.01	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.30	Other LC-MS	102	0.1952	0.169	0.174	7.75	1.5	3.16	0.38	14.4	0
Total Δ9-THC (%DW)	506.40	GC-FID	153	0.2129	0.161	0.1781	14.4	2.79	3.16	0.38	14.4	0

Total CBD (%DW)

Total CBD (%DW)	507.10	Other LC-UV	189	7.8532	7.8569	7.859	0.04	0.01	2.46	0.04	6.87	0
Total CBD (%DW)	507.01	AOAC 2018.10	210	8.669	8.636	8.597	0.42	0.14	2.46	0.04	6.87	0
Total CBD (%DW)	507.02	AOAC 2018.11, U	199	8.285	8.2216	8.1288	0.96	0.33	2.46	0.04	6.87	0
Total CBD (%DW)	507.10	Other LC-UV	162	9.0937	8.7206	8.7574	2.32	0.81	2.46	0.04	6.87	0
Total CBD (%DW)	507.10	Other LC-UV	154	6.4472	6.4975	6.1775	2.7	0.89	2.46	0.04	6.87	0
Total CBD (%DW)	507.10	Other LC-UV	142	7.089	7.4539	7.1196	2.8	0.94	2.46	0.04	6.87	0
Total CBD (%DW)	507.10	Other LC-UV	116	7.7723	8.3583	8.0502	3.64	1.25	2.46	0.04	6.87	0
Total CBD (%DW)	507.40	GC-FID	116	8.6045	8.2763	8.9388	3.85	1.33	2.46	0.04	6.87	0
Total CBD (%DW)	507.10	Other LC-UV	192	10.0374	8.746	9.4603	6.87	2.41	2.46	0.04	6.87	0

CBDV (%DW)

CBDV (%DW)	508.99	Other	189	0.0337	0.0342	0.0341	0.78	0.12				0
CBDV (%DW)	508.99	Other	162	0.0509	0.053	0.0504	2.68	0.43				0
CBDV (%DW)	508.02	AOAC 2018.11, U	210	0.062	0.058	0.059	3.49	0.57				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBDV (%DW)	508.99	Other	142	0.0406	0.0449	0.0429	5.03	0.79				0
CBDVA (%DW)												
CBDVA (%DW)	509.99	Other	142	0.0188	0.0201	0.0194	3.35	0.46				0
CBDVA (%DW)	509.01	AOAC 2018.10	210	0.033	0.031	0.031	3.65	0.54				0
CBG (%DW)												
CBG (%DW)	510.99	Other	189	0.3227	0.3192	0.3203	0.56	0.12				0
CBG (%DW)	510.01	AOAC 2018.10	210	0.239	0.244	0.235	1.88	0.38				0
CBG (%DW)	510.99	Other	162	0.2148	0.2296	0.225	3.39	0.68				0
CBG (%DW)	510.99	Other	142	0.2077	0.1965	0.2107	3.65	0.72				0
CBGA (%DW)												
CBGA (%DW)	511.99	Other	189	0.1664	0.1665	0.1668	0.12	0.02				0
CBGA (%DW)	511.99	Other	162	0.161	0.1577	0.156	1.61	0.31				0
CBGA (%DW)	511.99	Other	142	0.1103	0.1165	0.1163	3.08	0.56				0
CBGA (%DW)	511.01	AOAC 2018.10	210	0.284	0.278	0.343	11.9	2.49				0
THCV (%DW)												
THCV (%DW)	512.02	AOAC 2018.11, U	210	0.013	0.013	0.013	0	0				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
			Δ8-THC (%DW)									
Δ8-THC (%DW)	513.01	AOAC 2018.10	210	0.013	0.013	0.013	0	0			0	
Δ8-THC (%DW)	513.99	Other	189	0.0138	0.0143	0.0128	5.6	0.74			0	
			CBC (%DW)									
CBC (%DW)	514.99	Other	189	0.2938	0.294	0.2939	0.03	0.01			0	
CBC (%DW)	514.01	AOAC 2018.10	210	0.256	0.259	0.259	0.67	0.14			0	
CBC (%DW)	514.99	Other	162	0.2653	0.265	0.2573	1.73	0.35			0	
CBC (%DW)	514.99	Other	142	0.2275	0.2377	0.2281	2.48	0.5			0	

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