

Hemp Proficiency Testing

All Labs Precision

OL22SEP-1 (oil)



Sample: OL22SEP-1 (oil)

All Labs Precision

Issue Date: November 18, 2022

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)	001.30	Other LC-MS	190	0.101								1
Δ9-THC (%AR)	001.10	Other LC-UV	200	0.089	0.089	0.089	0	0	5.49	0	21.7	0
Δ9-THC (%AR)	001.30	Other LC-MS	122	0.1274	0.1275	0.1269	0.25	0.05	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	149	0.096	0.096	0.095	0.6	0.11	5.49	0	21.7	0
Δ9-THC (%AR)	001.01	AOAC 2018.10	183	0.0886	0.09	0.0895	0.79	0.14	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	216	0.0855	0.0871	0.0868	0.98	0.17	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	196	0.1004	0.1024	0.1009	1.03	0.18	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	184	0.0554	0.0548	0.056	1.08	0.18	5.49	0	21.7	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	125	0.0913	0.0883	0.0911	1.86	0.32	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	204	0.0673	0.07	0.0698	2.18	0.37	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	189	0.1041	0.1081	0.109	2.44	0.44	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	162	0.1131	0.1143	0.1187	2.56	0.46	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	197	0.0849	0.081	0.0853	2.84	0.49	5.49	0	21.7	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	120	0.1118	0.1152	0.1193	3.25	0.59	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	212	0.1057	0.1145	0.1029	5.62	1.01	5.49	0	21.7	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	0.09	0.1	0.09	6.19	1.09	5.49	0	21.7	0
Δ9-THC (%AR)	001.02	AOAC 2018.11, U	199	0.1265	0.1175	0.133	6.19	1.14	5.49	0	21.7	0
Δ9-THC (%AR)	001.30	Other LC-MS	149	0.097	0.085	0.092	6.6	1.16	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	155	0.111	0.121	0.105	7.2	1.3	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	194	0.0947	0.0952	0.0828	7.72	1.35	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	191	0.0807	0.0689	0.0805	8.81	1.5	5.49	0	21.7	0
Δ9-THC (%AR)	001.99	Other	183	0.0578	0.0636	0.0717	10.8	1.8	5.49	0	21.7	0
Δ9-THC (%AR)	001.10	Other LC-UV	192	0.0944	0.088	0.0748	11.7	2.02	5.49	0	21.7	0
Δ9-THC (%AR)	001.01	AOAC 2018.10	170	0.1243	0.1135	0.1437	12	2.21	5.49	0	21.7	0
Δ9-THC (%AR)	001.03	AOAC 2018.11, M	139	0.0818	0.0621	0.07	13.9	2.34	5.49	0	21.7	0
Δ9-THC (%AR)	001.60	NIR	187	0.02	0.03	0.03	21.7	3.15	5.49	0	21.7	0
Δ9-THC (%AR)	001.30	Other LC-MS	102	0.1032	0.0694	0.0957	19.8	3.46	5.49	0	21.7	0

Δ9-THCA (%AR)

Δ9-THCA (%AR)	002.10	Other LC-UV	196	<0.0210	<0.0210	<0.0210						1
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	199	<0.0500	<0.0500	<0.0500						1
Δ9-THCA (%AR)	002.30	Other LC-MS	102	<0.0194	<0.0188	<0.0187						1
Δ9-THCA (%AR)	002.10	Other LC-UV	184	<0.1000	<0.1000	<0.1000						1
Δ9-THCA (%AR)	002.10	Other LC-UV	162	<0.0100	<0.0100	<0.0100						1
Δ9-THCA (%AR)	002.10	Other LC-UV	194	<0.0270	<0.0270	<0.0270						1
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	120	<0.0025	<0.0025	<0.0025						1
Δ9-THCA (%AR)	002.01	AOAC 2018.10	183	0	0	0						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	106	<0.0100	<0.0100	<0.0100						1
Δ9-THCA (%AR)	002.10	Other LC-UV	216	<0.0099	<0.0091	<0.0103						1
Δ9-THCA (%AR)	002.10	Other LC-UV	191	<0.0100	<0.0100	<0.0100						1
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	197	<0.0094	<0.0098	<0.0092						1
Δ9-THCA (%AR)	002.30	Other LC-MS	122	<0.0500	<0.0500	<0.0500						1
Δ9-THCA (%AR)	002.10	Other LC-UV	155	0.05	0.03	0						1
Δ9-THCA (%AR)	002.01	AOAC 2018.10	170	<0.1300	<0.1300	<0.1300						1
Δ9-THCA (%AR)	002.30	Other LC-MS	190	<0.0010								1
Δ9-THCA (%AR)	002.30	Other LC-MS	149	<0.0040	<0.0040	<0.0040						1
Δ9-THCA (%AR)	002.10	Other LC-UV	149	<0.0370	<0.0370	<0.0400						1
Δ9-THCA (%AR)	002.10	Other LC-UV	200	0.022	0.022	0.022	0	0				0
Δ9-THCA (%AR)	002.10	Other LC-UV	189	0.0341	0.0377	0.0387	6.57	1				0
Δ9-THCA (%AR)	002.02	AOAC 2018.11, U	125	0.002	0.0021	0.0025	12	1.2				0
Δ9-THCA (%AR)	002.10	Other LC-UV	192	0.0729	0.0647	0.0748	7.58	1.28				0
Δ9-THCA (%AR)	002.60	NIR	187	0.01	0.02	0.01	43.3	5.68				0

CBD (%AR)

CBD (%AR)	003.30	Other LC-MS	190	5.916								1
CBD (%AR)	003.30	Other LC-MS	122	6.8498	6.8495	6.8501	0	0	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	189	5.0957	5.1238	5.0945	0.32	0.1	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	204	5.9638	5.9321	5.9633	0.3	0.1	1.67	0	22	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBD (%AR)	003.01	AOAC 2018.10	183	5.5916	5.5525	5.5681	0.35	0.11	1.67	0	22	0
CBD (%AR)	003.99	Other	212	5.4674	5.4764	5.4158	0.6	0.19	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	155	5.67	5.74	5.71	0.62	0.2	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	106	6.04	5.96	6.01	0.67	0.22	1.67	0	22	0
CBD (%AR)	003.01	AOAC 2018.10	170	5.6788	5.7715	5.6892	0.89	0.29	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	194	5.5474	5.5454	5.6459	1.03	0.33	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	197	6.23	6.2888	6.3578	1.02	0.34	1.67	0	22	0
CBD (%AR)	003.30	Other LC-MS	149	6.427	6.31	6.262	1.34	0.44	1.67	0	22	0
CBD (%AR)	003.02	AOAC 2018.11, U	199	5.954	5.959	6.135	1.71	0.56	1.67	0	22	0
CBD (%AR)	003.02	AOAC 2018.11, U	125	5.83	5.63	5.69	1.8	0.58	1.67	0	22	0
CBD (%AR)	003.60	NIR	187	6.62	6.73	6.5	1.74	0.58	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	200	5.128	4.946	4.977	1.94	0.62	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	216	5.8788	6.1045	6.0279	1.91	0.63	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	162	6.1554	6.3674	6.1204	2.15	0.71	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	184	5.736	5.481	5.631	2.28	0.74	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	196	6.0616	6.0048	5.7996	2.31	0.76	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	149	5.655	5.521	5.816	2.61	0.85	1.67	0	22	0
CBD (%AR)	003.30	Other LC-MS	102	5.9804	6.2777	5.7592	4.33	1.42	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	192	5.4912	5.2414	4.7246	7.59	2.43	1.67	0	22	0
CBD (%AR)	003.03	AOAC 2018.11, M	139	5.1067	4.0449	4.3818	12	3.78	1.67	0	22	0
CBD (%AR)	003.10	Other LC-UV	191	4.6798	3.1997	3.3241	22	6.71	1.67	0	22	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
			CBDA (%AR)									
CBDA (%AR)	004.30	Other LC-MS	122	<0.0500	<0.0500	<0.0500						1
CBDA (%AR)	004.10	Other LC-UV	197	<0.0094	<0.0098	<0.0092						1
CBDA (%AR)	004.10	Other LC-UV	106	<0.0100	<0.0100	<0.0100						1
CBDA (%AR)	004.10	Other LC-UV	194	<0.0270	<0.0270	<0.0270						1
CBDA (%AR)	004.10	Other LC-UV	216	<0.0099	<0.0091	<0.0103						1
CBDA (%AR)	004.03	AOAC 2018.11, M	139	<0.0125	<0.0125	<0.0125						1
CBDA (%AR)	004.10	Other LC-UV	149	<0.0370	<0.0370	<0.0400						1
CBDA (%AR)	004.01	AOAC 2018.10	183	0	0	0						1
CBDA (%AR)	004.30	Other LC-MS	149	<0.0040	<0.0040	<0.0040						1
CBDA (%AR)	004.02	AOAC 2018.11, U	199	<0.0500	<0.0500	<0.0500						1
CBDA (%AR)	004.01	AOAC 2018.10	170	<0.1300	<0.1300	<0.1300						1
CBDA (%AR)	004.10	Other LC-UV	212	0.0266	0.0294	0						1
CBDA (%AR)	004.10	Other LC-UV	162	<0.0100	<0.0100	<0.0100						1
CBDA (%AR)	004.10	Other LC-UV	200	0.004	0.004	0.004	0	0	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	196	0.0325	0.032	0.0322	0.78	0.12	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	184	0.0438	0.0426	0.0431	1.4	0.22	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	155	0.079	0.075	0.077	2.6	0.44	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	191	0.0251	0.0232	0.0267	7.01	1.01	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	192	0.0236	0.0252	0.0218	7.23	1.03	8.37	0	40.8	0
CBDA (%AR)	004.02	AOAC 2018.11, U	125	0.005	0.0055	0.0062	10.8	1.25	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	204	0.0351	0.0328	0.0405	10.9	1.67	8.37	0	40.8	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBDA (%AR)	004.60	NIR	187	0.15	0.19	0.23	21.1	4.11	8.37	0	40.8	0
CBDA (%AR)	004.10	Other LC-UV	189	0.0044	0.0098	0.0106	40.8	4.98	8.37	0	40.8	0

CBN (%AR)

CBN (%AR)	005.10	Other LC-UV	149	0.039	<0.0370	<0.0400						1
CBN (%AR)	005.20	Other LC-MS	102	<0.0484	<0.0470	<0.0467						1
CBN (%AR)	005.20	Other LC-MS	190	0.048								1
CBN (%AR)	005.02	AOAC 2018.11, U	199	<0.0500	<0.0500	<0.0500						1
CBN (%AR)	005.10	Other LC-UV	200	0.04	0.04	0.04	0	0	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	196	0.0427	0.043	0.0423	0.82	0.13	5.4	0	24.1	0
CBN (%AR)	005.01	AOAC 2018.10	183	0.0397	0.039	0.0396	0.96	0.15	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	189	0.0404	0.0411	0.0412	1.07	0.17	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	197	0.0362	0.0363	0.0371	1.35	0.21	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	216	0.0372	0.0382	0.0384	1.69	0.26	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	162	0.0442	0.0462	0.0448	2.28	0.36	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	212	0.0501	0.0472	0.0484	3	0.48	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	204	0.0402	0.0435	0.0427	4.09	0.64	5.4	0	24.1	0
CBN (%AR)	005.20	Other LC-MS	149	0.044	0.04	0.043	4.92	0.77	5.4	0	24.1	0
CBN (%AR)	005.02	AOAC 2018.11, U	125	0.0444	0.0418	0.047	5.86	0.92	5.4	0	24.1	0
CBN (%AR)	005.30	GC-FID	138	0.0554	0.0526	0.0618	8.33	1.36	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	194	0.0368	0.0368	0.0309	9.78	1.48	5.4	0	24.1	0
CBN (%AR)	005.03	AOAC 2018.11, M	139	0.0338	0.0304	0.0275	10.3	1.53	5.4	0	24.1	0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
CBN (%AR)	005.10	Other LC-UV	106	0.05	0.06	0.05	10.8	1.75	5.4	0	24.1	0
CBN (%AR)	005.10	Other LC-UV	192	0.0589	0.0538	0.0435	15.1	2.42	5.4	0	24.1	0
CBN (%AR)	005.02	AOAC 2018.11, U	107	0.032	0.029	0.045	24.1	3.65	5.4	0	24.1	0

Total Δ9-THC (%AR)

Total Δ9-THC (%AR)	006.30	Other LC-MS	190	0.101								1
Total Δ9-THC (%AR)	006.30	Other LC-MS	122	0.1274	0.1275	0.1269	0.25	0.05	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	149	0.096	0.096	0.095	0.6	0.11	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.01	AOAC 2018.10	183	0.0886	0.09	0.0895	0.79	0.14	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	216	0.0855	0.0871	0.0868	0.98	0.17	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	196	0.1004	0.1024	0.1009	1.03	0.18	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	200	0.108	0.111	0.108	1.59	0.29	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	125	0.0931	0.0902	0.0933	1.88	0.33	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	204	0.0673	0.07	0.0698	2.18	0.37	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	162	0.1131	0.1143	0.1187	2.56	0.46	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.40	GC-FID	138	0.1018	0.0992	0.1045	2.6	0.46	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	197	0.0849	0.081	0.0853	2.84	0.49	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	120	0.1118	0.1152	0.1193	3.25	0.59	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	189	0.134	0.1411	0.1429	3.38	0.63	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.40	GC-FID	169	0.1193	0.111	0.1175	3.77	0.68	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	212	0.1057	0.1145	0.1029	5.62	1.01	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.30	Other LC-MS	149	0.097	0.085	0.092	6.6	1.16	5.83	0.25	24.6	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)	006.02	AOAC 2018.11, U	199	0.1309	0.1175	0.133	6.61	1.22	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	192	0.1583	0.1447	0.1396	6.55	1.23	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	194	0.0947	0.0952	0.0826	7.85	1.37	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	191	0.0807	0.0689	0.0805	8.81	1.5	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.99	Other	183	0.0578	0.0636	0.0717	10.8	1.8	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.03	AOAC 2018.11, M	139	0.0818	0.0621	0.07	13.9	2.34	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.02	AOAC 2018.11, U	107	0.078	0.083	0.102	14.4	2.51	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.30	Other LC-MS	102	0.1032	0.0694	0.0957	19.8	3.46	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.10	Other LC-UV	155	0.156	0.148	0.105	20.1	3.74	5.83	0.25	24.6	0
Total Δ9-THC (%AR)	006.60	NIR	187	0.029	0.048	0.039	24.6	3.78	5.83	0.25	24.6	0

Total CBD (%AR)

Total CBD (%AR)	007.30	Other LC-MS	122	6.8498	6.8495	6.8501	0	0	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	194	5.5474	5.5454	5.5459	0.02	0.01	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	204	5.9946	5.9921	5.9676	0.25	0.08	2.41	0	21.9	0
Total CBD (%AR)	007.01	AOAC 2018.10	183	5.5916	5.5525	5.5681	0.35	0.11	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	189	5.0995	5.1323	5.1038	0.35	0.11	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	155	5.74	5.8	5.78	0.53	0.17	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	212	5.4907	5.5022	5.4158	0.86	0.28	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	197	6.23	6.2888	6.3578	1.02	0.34	2.41	0	21.9	0
Total CBD (%AR)	007.30	Other LC-MS	149	6.427	6.31	6.262	1.34	0.44	2.41	0	21.9	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	199	5.9851	5.9888	6.1666	1.72	0.56	2.41	0	21.9	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)	007.60	NIR	187	6.7	6.9	6.7	1.71	0.57	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	200	5.132	4.95	4.981	1.94	0.62	2.41	0	21.9	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	125	5.84	5.63	5.69	1.89	0.62	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	216	5.8788	6.1045	6.0279	1.91	0.63	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	162	6.1554	6.3674	6.1204	2.15	0.71	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	196	6.09	6.0329	5.8278	2.3	0.76	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	149	5.655	5.521	5.816	2.61	0.85	2.41	0	21.9	0
Total CBD (%AR)	007.40	GC-FID	169	3.6661	3.337	3.3931	5.08	1.53	2.41	0	21.9	0
Total CBD (%AR)	007.40	GC-FID	138	6.8387	7.382	7.5153	4.95	1.67	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	192	5.5119	5.2635	4.7437	7.58	2.43	2.41	0	21.9	0
Total CBD (%AR)	007.02	AOAC 2018.11, U	107	4.491	4.237	5.03	8.83	2.78	2.41	0	21.9	0
Total CBD (%AR)	007.03	AOAC 2018.11, M	139	5.1067	4.0449	4.3818	12	3.78	2.41	0	21.9	0
Total CBD (%AR)	007.10	Other LC-UV	191	4.7018	3.22	3.3475	21.9	6.68	2.41	0	21.9	0

CBDV (%AR)

CBDV (%AR)	008.99	Other	216	<0.0148	<0.0136	<0.0154						1
CBDV (%AR)	008.99	Other	196	<0.0210	<0.0210	<0.0210						1
CBDV (%AR)	008.99	Other	162	<0.0100	<0.0100	<0.0100						1
CBDV (%AR)	008.99	Other	197	<0.0142	<0.0146	<0.0138						1
CBDV (%AR)	008.99	Other	212	0.0363	0.0358	0.0355	1.13	0.17	5.94	1.13	34.6	0
CBDV (%AR)	008.02	AOAC 2018.11, U	183	0.0208	0.0213	0.0206	1.73	0.24	5.94	1.13	34.6	0
CBDV (%AR)	008.99	Other	200	0.023	0.022	0.022	2.59	0.37	5.94	1.13	34.6	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	149	0.021	0.02	0.021	2.79	0.39	5.94	1.13	34.6	0
CBDV (%AR)	008.99	Other	189	0.018	0.017	0.0182	3.63	0.5	5.94	1.13	34.6	0
CBDV (%AR)	008.99	Other	194	0.0238	0.0246	0.0191	13.2	1.87	5.94	1.13	34.6	0
CBDV (%AR)	008.99	Other	106	0.02	0.04	0.04	34.6	5.21	5.94	1.13	34.6	0

CBDVA (%AR)

CBDVA (%AR)	009.99	Other	197	<0.0094	<0.0098	<0.0092						1
CBDVA (%AR)	009.99	Other	216	<0.0099	<0.0091	<0.0103						1
CBDVA (%AR)	009.99	Other	196	<0.0210	<0.0210	<0.0210						1
CBDVA (%AR)	009.01	AOAC 2018.10	183	0	0	0						1
CBDVA (%AR)	009.99	Other	149	<0.0370	<0.0370	<0.0400						1

CBG (%AR)

CBG (%AR)	010.99	Other	122	0.1523	0.152	0.1521	0.1	0.02	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	197	0.0715	0.0714	0.071	0.37	0.06	2.98	0.1	8.66	0
CBG (%AR)	010.01	AOAC 2018.10	183	0.0933	0.094	0.0939	0.4	0.07	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	196	0.09	0.0914	0.0906	0.78	0.14	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	200	0.095	0.097	0.096	1.04	0.18	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	216	0.0721	0.0741	0.0725	1.45	0.25	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	149	0.067	0.07	0.067	2.55	0.43	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	106	0.25	0.25	0.26	2.28	0.46	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	189	0.1146	0.1204	0.1198	2.7	0.49	2.98	0.1	8.66	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	0.107	0.108	0.102	3.04	0.54	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	212	0.0971	0.1052	0.1094	6.02	1.07	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	155	0.214	0.19	0.201	5.96	1.17	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	194	0.0917	0.0891	0.0792	7.61	1.32	2.98	0.1	8.66	0
CBG (%AR)	010.99	Other	162	0.0855	0.0883	0.1004	8.66	1.52	2.98	0.1	8.66	0

CBGA (%AR)

CBGA (%AR)	011.99	Other	194	<0.0270	<0.0270	<0.0270						1
CBGA (%AR)	011.99	Other	149	<0.0370	<0.0370	<0.0400						1
CBGA (%AR)	011.99	Other	197	<0.0094	<0.0098	<0.0092						1
CBGA (%AR)	011.99	Other	106	<0.0100	<0.0100	<0.0100						1
CBGA (%AR)	011.01	AOAC 2018.10	183	0	0	0						1
CBGA (%AR)	011.99	Other	122	<0.0500	<0.0500	<0.0500						1
CBGA (%AR)	011.99	Other	216	<0.0099	<0.0091	<0.0103						1
CBGA (%AR)	011.99	Other	196	<0.0210	<0.0210	<0.0210						1
CBGA (%AR)	011.99	Other	162	<0.0100	<0.0100	<0.0100						1
CBGA (%AR)	011.02	AOAC 2018.11, U	125	<0.0018	<0.0016	<0.0020						1
CBGA (%AR)	011.99	Other	189	0.0245	0.0235	0.0236	2.31	0.33				0

THCV (%AR)

THCV (%AR)	012.99	Other	149	<0.0370	<0.0370	<0.0400						1
THCV (%AR)	012.99	Other	216	<0.0099	<0.0091	<0.0103						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	<0.0100	<0.0100	<0.0100						1
THCV (%AR)	012.99	Other	194	<0.0270	<0.0270	<0.0270						1
THCV (%AR)	012.99	Other	197	<0.0094	<0.0098	<0.0092						1
THCV (%AR)	012.99	Other	196	<0.0210	<0.0210	<0.0210						1
THCV (%AR)	012.02	AOAC 2018.11, U	183	0	0	0						1
THCV (%AR)	012.99	Other	200	0.009	0.009	0.009	0	0				0
THCV (%AR)	012.99	Other	189	0.0142	0.0153	0.0157	5.16	0.69				0

Δ8-THC (%AR)

Δ8-THC (%AR)	013.99	Other	196	<0.0210	<0.0210	<0.0210						1
Δ8-THC (%AR)	013.99	Other	183	0	0	0						1
Δ8-THC (%AR)	013.99	Other	149	<0.0370	<0.0370	<0.0400						1
Δ8-THC (%AR)	013.99	Other	162	<0.0100	<0.0100	<0.0100						1
Δ8-THC (%AR)	013.99	Other	102	<0.0484	<0.0188	<0.0187						1
Δ8-THC (%AR)	013.99	Other	200	<0.0100	<0.0100	<0.0100						1
Δ8-THC (%AR)	013.99	Other	194	<0.0270	<0.0270	<0.0270						1
Δ8-THC (%AR)	013.99	Other	106	0.02	0.02	0.02	0	0	4.72	0	15.1	0
Δ8-THC (%AR)	013.01	AOAC 2018.10	183	0.003	0.003	0.0031	1.9	0.2	4.72	0	15.1	0
Δ8-THC (%AR)	013.99	Other	197	0.0194	0.0193	0.0206	3.66	0.51	4.72	0	15.1	0
Δ8-THC (%AR)	013.99	Other	216	0.0187	0.0171	0.0189	5.41	0.74	4.72	0	15.1	0
Δ8-THC (%AR)	013.99	Other	138	0.0757	0.0687	0.0766	5.87	0.99	4.72	0	15.1	0
Δ8-THC (%AR)	013.99	Other	189	0.0187	0.0251	0.0239	15.1	2.14	4.72	0	15.1	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	200	0.269	0.268	0.267	0.37	0.08	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	196	0.2509	0.2532	0.2511	0.51	0.1	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	204	0.2667	0.2712	0.267	0.94	0.19	1.63	0.37	7.22	0
CBC (%AR)	014.02	AOAC 2018.11, U	125	0.251	0.256	0.252	1.05	0.21	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	162	0.2395	0.2443	0.2405	1.05	0.21	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	149	0.243	0.245	0.248	1.03	0.21	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	189	0.2619	0.2673	0.2681	1.27	0.26	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	216	0.2404	0.246	0.2466	1.4	0.28	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	212	0.2289	0.2364	0.2337	1.63	0.33	1.63	0.37	7.22	0
CBC (%AR)	014.01	AOAC 2018.10	183	0.2402	0.2354	0.2436	1.72	0.35	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	197	0.2479	0.2476	0.2566	2.04	0.42	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	155	0.265	0.274	0.257	3.21	0.66	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	194	0.2436	0.2418	0.2174	6.25	1.26	1.63	0.37	7.22	0
CBC (%AR)	014.99	Other	106	0.25	0.25	0.22	7.22	1.46	1.63	0.37	7.22	0

Cd (ug/g AR)												
Cd (ug/g AR)	101.04	ICP-MS	106	<0.0750	<0.0750	<0.0750						1
Cd (ug/g AR)	101.04	ICP-MS	197	<0.0963	<0.1002	<0.0994						1
Cd (ug/g AR)	101.04	ICP-MS	194	<0.0200	<0.0200	<0.0200						1
Cd (ug/g AR)	101.04	ICP-MS	196	<0.0241	<0.0241	<0.0241						1

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	102	<0.008	<0.008	<0.008						1
Cd (ug/g AR)	101.04	ICP-MS	162	<0.2000	<0.2000	<0.2000						1
As (ug/g AR)												
As (ug/g AR)	102.04	ICP-MS	102	<0.008	<0.008	<0.008						1
As (ug/g AR)	102.04	ICP-MS	194	<0.0200	<0.0200	<0.0200						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	196	<0.0482	<0.0482	<0.0482						1
As (ug/g AR)	102.04	ICP-MS	106	<0.0750	<0.0750	<0.0750						1
As (ug/g AR)	102.04	ICP-MS	197	<0.0963	<0.1002	<0.0994						1
Hg (ug/g AR)												
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	<0.0072	<0.0072	<0.0072						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	194	<0.0200	<0.0200	<0.0200						1
Hg (ug/g AR)	103.04	ICP-MS	197	<0.0963	<0.1002	<0.0994						1
Hg (ug/g AR)	103.04	ICP-MS	102	0.0013	0.0014	0.0012	7.69	0.71				0
Pb (ug/g AR)												
Pb (ug/g AR)	104.04	ICP-MS	194	<0.0200	<0.0200	<0.0200						1
Pb (ug/g AR)	104.04	ICP-MS	102	<0.008	<0.008	<0.008						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	197	<0.0963	<0.1002	<0.0994						1
Pb (ug/g AR)	104.04	ICP-MS	196	<0.0241	<0.0241	<0.0241						1
Pb (ug/g AR)	104.04	ICP-MS	162	<0.2000	<0.2000	<0.2000						1
Pb (ug/g AR)	104.04	ICP-MS	106	<0.0750	<0.0750	<0.0750						1
Cu (ug/g AR)												
Cu (ug/g AR)	105.04	ICP-MS	196	<0.4893	<0.4893	<0.4893						1
Ni (ug/g AR)												
Ni (ug/g AR)	106.04	ICP-MS	196	<0.0722	<0.0722	<0.0722						1
Cr (ug/g AR)												
Cr (ug/g AR)	107.04	ICP-MS	197	<0.0963	<0.1002	<0.0994						1
Cr (ug/g AR)	107.04	ICP-MS	196	<0.0722	<0.0722	<0.0722						1
Se (ug/g AR)												
Se (ug/g AR)	108.04	ICP-MS	196	<0.0963	<0.0963	<0.0963						1
Se (ug/g AR)	108.04	ICP-MS	197	<0.0963	<0.1002	<0.0994						1
Zn (ug/g AR)												
Zn (ug/g AR)	111.04	ICP-MS	196	1.84	1.66	1.89	6.73	1.84				0

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
			Sb (ug/g AR)									
Sb (ug/g AR)	112.04	ICP-MS	196	<0.0241	<0.0241	<0.0241						1
			(-)-alpha-Bisabolol (%AR)									
(-)-alpha-Bisabolol (%A	201.02	GC,MS	196	0.1736	0.1655	0.16	4.11	0.79				0
(-)-alpha-Bisabolol (%A	201.02	GC,MS	194	0.1686	0.1852	0.1844	5.22	1.01				0
(-)-alpha-Bisabolol (%A	201.02	GC,MS	162	0.021	0.0165	0.0191	12	1.65				0
(-)-alpha-Bisabolol (%A	201.02	GC,MS	212	0.1906	0.2261	0.1899	10.2	2.02				0
			beta-Caryophyllene (%AR)									
beta-Caryophyllene (%)	202.02	GC,MS	196	0.1817	0.1854	0.1718	3.91	0.76				0
beta-Caryophyllene (%)	202.02	GC,MS	162	0.0819	0.0709	0.0768	7.19	1.23				0
beta-Caryophyllene (%)	202.02	GC,MS	194	0.1333	0.1533	0.1302	9.02	1.68				0
beta-Caryophyllene (%)	202.02	GC,MS	212	0.1739	0.1965	0.1465	14.5	2.8				0
			(-)-Caryophyllene oxide (%AR)									
(-)-Caryophyllene oxide	203.02	GC,MS	194	0.0436	0.0419	0.0432	2.07	0.32				0
(-)-Caryophyllene oxide	203.02	GC,MS	196	0.0689	0.0639	0.0635	4.6	0.77				0
(-)-Caryophyllene oxide	203.02	GC,MS	212	0.0487	0.0503	0.0449	5.78	0.92				0
			Geraniol (%AR)									
Geraniol (%AR)	204.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1

Analyte	Code	Method	Lab Num	Result1	Result2	Result3	Lab RSDr	HorRat(r)	Population of Lab RSDr			Flag
									Rob Mean	min	max	
Geraniol (%AR)	204.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
Geraniol (%AR)	204.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
alpha-Humulene (%AR)												
alpha-Humulene (%AR)	205.02	GC,MS	196	0.055	0.0549	0.0517	3.48	0.56				0
alpha-Humulene (%AR)	205.02	GC,MS	194	0.0495	0.0553	0.0489	6.9	1.11				0
alpha-Humulene (%AR)	205.02	GC,MS	162	0.0225	0.0189	0.0202	8.88	1.24				0
alpha-Humulene (%AR)	205.02	GC,MS	212	0.0536	0.0653	0.0468	16.9	2.75				0
d-Limonene (%AR)												
d-Limonene (%AR)	206.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
d-Limonene (%AR)	206.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
d-Limonene (%AR)	206.02	GC,MS	194	0.0025	0.0027	0.0025	4.5	0.46				0
Linalool (%AR)												
Linalool (%AR)	207.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
Linalool (%AR)	207.02	GC,MS	194	0.0058	0.0058	0.0059	0.99	0.11				0
Linalool (%AR)	207.02	GC,MS	196	0.0017	0.0016	0.0017	3.46	0.33				0
Linalool (%AR)	207.02	GC,MS	212	0.0006	0.0013	0.0017	46.4	4.24				0
beta-Myrcene (%AR)												
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)	208.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
beta-Myrcene (%AR)	208.02	GC,MS	194	0.0023	0.0023	0.0024	2.47	0.25				0
Ocimene (%AR)												
Ocimene (%AR)	210.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
Ocimene (%AR)	210.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
Ocimene (%AR)	210.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
alpha-Pinene (%AR)												
alpha-Pinene (%AR)	211.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
alpha-Pinene (%AR)	211.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
alpha-Pinene (%AR)	211.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
(-)-beta-Pinene (%AR)												
(-)-beta-Pinene (%AR)	212.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
(-)-beta-Pinene (%AR)	212.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
(-)-beta-Pinene (%AR)	212.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
alpha-Terpinene (%AR)												
alpha-Terpinene (%AR)	213.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
alpha-Terpinene (%AR)	213.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
alpha-Terpinene (%AR)	213.02	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	
gamma-Terpinene (%AR)												
gamma-Terpinene (%A	214.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
gamma-Terpinene (%A	214.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
gamma-Terpinene (%A	214.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
alpha-Terpinolene (%AR)												
alpha-Terpinolene (%A	215.02	GC,MS	194	<0.0004	<0.0004	<0.0004						1
alpha-Terpinolene (%A	215.02	GC,MS	196	<0.0013	<0.0013	<0.0013						1
alpha-Terpinolene (%A	215.02	GC,MS	162	<0.0100	<0.0100	<0.0100						1
Δ9-THC (%DW)												
Δ9-THC (%DW)	501.01	AOAC 2018.10	210	0.091	0.091	0.089	1.28	0.22				0
Δ9-THCA (%DW)												
Δ9-THCA (%DW)	502.01	AOAC 2018.10	210	<0.0460	<0.0430	<0.0470						1
CBD (%DW)												
CBD (%DW)	503.01	AOAC 2018.10	210	5.644	5.733	5.694	0.78	0.26				0
CBDA (%DW)												
CBDA (%DW)	504.01	AOAC 2018.10	210	<0.0460	<0.0430	<0.0470						1

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)												
Total Δ9-THC (%DW)	506.01	AOAC 2018.10	210	0.131	0.129	0.13	0.77	0.14				0
Total CBD (%DW)												
Total CBD (%DW)	507.01	AOAC 2018.10	210	5.684	5.771	5.735	0.76	0.25				0
CBDV (%DW)												
CBDV (%DW)	508.02	AOAC 2018.11, U	210	<0.0430	<0.0400	<0.0430						1
CBDVA (%DW)												
CBDVA (%DW)	509.01	AOAC 2018.10	210	<0.0460	<0.0430	<0.0460						1
CBG (%DW)												
CBG (%DW)	510.01	AOAC 2018.10	210	0.109	0.102	0.107	3.4	0.61				0
CBGA (%DW)												
CBGA (%DW)	511.01	AOAC 2018.10	210	<0.0460	<0.0430	<0.0460						1
THCV (%DW)												
THCV (%DW)	512.02	AOAC 2018.11, U	210	<0.0430	<0.0400	<0.0430						1

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	0.043	0.041	0.043	2.73	0.43				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