



Certificate of Analysis

Powered by Confident Cannabis
1 of 15

Rebel Roots Farms

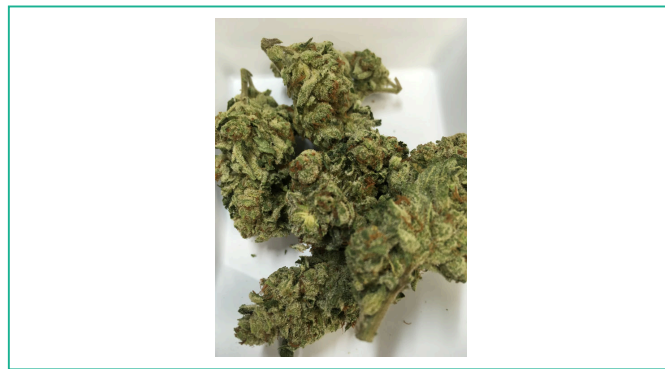
5432 N River Rd
Gold Hill, OR 97525
niles@rebelrootsfarms.com
(541) 363-6627
Lic. #030-100848592B2

Sample: 1910CH0106.0336

Strain: palpatine
Batch#: Tropsanto #11 - 100 ft Greenhouse - Sep 18, 2019; Batch Size: 4680 g
Sample Received: 10/04/2019; Report Created: 10/07/2019; Expires: 10/07/2020
Harvest/Production Date: 09/18/2019
Sampling: Random; Environment: Room Temp

Palpatine #5 9.18.19

Plant, Flower - Cured, Greenhouse
Harvest Process Lot: ; METRC Batch: 1a401030000e99a00003639; METRC Sample: 1A401030000E99A000003638



Pass

Pesticides

Moisture **9.4%**
Water Activity **0.469**
0.65 Limit

Microbial Potential

Cannabinoids

546 HPLC3 20191005-1
10/05/2019 | METRC THC RPD Status: Not Tested

Pass

22.45%

Total THC* (Calculated
Decarboxylated Potential)

0.07%

Total CBD** (Calculated
Decarboxylated Potential)

26.32%

Total Cannabinoids Analyzed

Analyte	LOQ	Mass	Mass
	mg/g	%	mg/g
THCa	0.4	25.20	252.0
Δ9-THC	0.4	0.35	3.5
THCV	0.4	<LOQ	<LOQ
CBDa	0.4	0.08	0.8
CBD	0.4	<LOQ	<LOQ
CBDV	0.4	<LOQ	<LOQ
CBN	0.4	<LOQ	<LOQ
CBGa	0.4	0.54	5.4
CBG	0.4	0.16	1.6
CBC	0.4	<LOQ	<LOQ
Total		26.32	263.2

Method: CH SOP 400

*Total THC = THCa * 0.877 + d9-THC. **Total CBD = CBDa * 0.877 + CBD. LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected



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Pesticides

092 LCQQQ4 20191005-2

Pass

Analyte	LOQ	Limit	Mass	Status	Analyte	LOQ	Limit	Mass	Status
	PPB	PPB	PPB			PPB	PPB	PPB	
Abamectin	400	500	<LOQ	Pass	Imazalil	100	200	<LOQ	Pass
Acephate	100	400	<LOQ	Pass	Imidacloprid	100	400	<LOQ	Pass
Acequinocyl	750	2000	<LOQ	Pass	Kresoxim Methyl	100	400	<LOQ	Pass
Acetamiprid	100	200	<LOQ	Pass	Malathion	100	200	<LOQ	Pass
Aldicarb	300	400	<LOQ	Pass	Metalaxyl	100	200	<LOQ	Pass
Azoxystrobin	100	200	<LOQ	Pass	Methiocarb	100	200	<LOQ	Pass
Bifenazate	100	200	<LOQ	Pass	Methomyl	100	400	<LOQ	Pass
Bifenthrin	100	200	<LOQ	Pass	Methyl Parathion	100	200	<LOQ	Pass
Boscalid	200	400	<LOQ	Pass	MGK-264	100	200	<LOQ	Pass
Carbaryl	100	200	<LOQ	Pass	Myclobutanil	100	200	<LOQ	Pass
Carbofuran	100	200	<LOQ	Pass	Naled	100	500	<LOQ	Pass
Chlorantraniliprole	100	200	<LOQ	Pass	Oxamyl	100	1000	<LOQ	Pass
Chlorfenapyr	400	1000	<LOQ	Pass	Paclobutrazol	100	400	<LOQ	Pass
Chlorpyrifos	150	200	<LOQ	Pass	Permethrins	150	200	<LOQ	Pass
Clofentezine	100	200	<LOQ	Pass	Phosmet	100	200	<LOQ	Pass
Cyfluthrin	400	1000	<LOQ	Pass	Piperonyl Butoxide	100	2000	<LOQ	Pass
Cypermethrin	400	1000	<LOQ	Pass	Prallethrin	150	200	<LOQ	Pass
Daminozide	400	1000	<LOQ	Pass	Propiconazole	200	400	<LOQ	Pass
Diazinon	100	200	<LOQ	Pass	Propoxur	100	200	<LOQ	Pass
Dichlorvos	150	1000	<LOQ	Pass	Pyrethrins	400	1000	<LOQ	Pass
Dimethoate	100	200	<LOQ	Pass	Pyridaben	100	200	<LOQ	Pass
Ethoprophos	100	200	<LOQ	Pass	Spinosad	100	200	<LOQ	Pass
Etofenprox	200	400	<LOQ	Pass	Spiromesifen	100	200	<LOQ	Pass
Etoazole	100	200	<LOQ	Pass	Spirotetramat	100	200	<LOQ	Pass
Fenoxycarb	100	200	<LOQ	Pass	Spiroxamine	150	400	<LOQ	Pass
Fenpyroximate	200	400	<LOQ	Pass	Tebuconazole	100	400	<LOQ	Pass
Fipronil	100	400	<LOQ	Pass	Thiacloprid	100	200	<LOQ	Pass
Flonicamid	200	1000	<LOQ	Pass	Thiamethoxam	150	200	<LOQ	Pass
Fludioxonil	200	400	<LOQ	Pass	Trifloxystrobin	100	200	<LOQ	Pass
Hexythiazox	200	1000	<LOQ	Pass					

Method: Modified AOAC 2007.01, Triple Quad analysis; LOQ = Limit of Quantification; PPB = Parts Per Billion; ND = Not Detected; NR = Not Reported; ORELAP ID 4057



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Certificate of Analysis

Sample provided to the laboratory by the client and tested as received.

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Terpenes

562 GCFID1 20191005-1
10/05/2019

Analyte	Mass	Mass	LOQ	Analyte	Mass	Mass	LOQ
	%	mg/g	%		%	mg/g	%
cis-Phytol	<LOQ	<LOQ	0.02	β-Myrcene	0.83	8.3	0.02
Valencene	0.08	0.8	0.02	γ-Terpinene	<LOQ	<LOQ	0.02
Sabinene	<LOQ	<LOQ	0.02	Anisole	<LOQ	<LOQ	0.02
Ocimene 1	<LOQ	<LOQ	0.02	Fenchone	<LOQ	<LOQ	0.07
Geraniol	<LOQ	<LOQ	0.02	Isoborneol	<LOQ	<LOQ	0.02
Neral	<LOQ	<LOQ		δ-Limonene	0.59	5.9	0.02
α-Humulene	0.15	1.5	0.02	Ocimene 2	<LOQ	<LOQ	0.02
α-Terpinene	<LOQ	<LOQ	0.02	Camphene	<LOQ	<LOQ	0.02
trans-Phytol	0.09	0.9	0.02	α-Phellandrene	<LOQ	<LOQ	0.02
Caryophyllene Oxide	0.03	0.3	0.02	γ-Terpineol	<LOQ	<LOQ	0.04
(-)-β-Pinene	0.09	0.9	0.02	Geranyl Acetate	<LOQ	<LOQ	0.18
α-Pinene	0.05	0.5	0.02	β-Caryophyllene	0.44	4.4	0.02
Camphor	<LOQ	<LOQ	0.02	Sabinene Hydrate	<LOQ	<LOQ	0.02
(-)-α-Bisabolol	0.11	1.1	0.02	Farnesene	0.10	1.0	0.02
α-Cedrene	<LOQ	<LOQ	0.02	Nerol	<LOQ	<LOQ	0.02
Terpinolene	<LOQ	<LOQ	0.02	trans-Nerolidol	0.83	8.3	0.02
Endo-Fenchyl Alcohol	0.06	0.6	0.02	Borneol	<LOQ	<LOQ	0.02
p-Isopropyltoluene	<LOQ	<LOQ	0.02	Hexahydro Thymol	<LOQ	<LOQ	0.02
Azulene	<LOQ	<LOQ	0.02	Squalene	0.02	0.2	
α-Terpineol	<LOQ	<LOQ	0.02	δ-3-Carene	<LOQ	<LOQ	0.02
Cedrol	<LOQ	<LOQ	0.02	Eucalyptol	<LOQ	<LOQ	0.02
Citral	<LOQ	<LOQ	0.02	Eugenol	<LOQ	<LOQ	0.02
(-)-Guaiaol	<LOQ	<LOQ	0.02	(-)-Isopulegol	<LOQ	<LOQ	0.02
β-Nerolidol	0.24	2.4	0.02	Pulegone	<LOQ	<LOQ	0.02
Linalool	0.19	1.9	0.02	cis-Nerolidol	<LOQ	<LOQ	0.02
Neryl Acetate	<LOQ	<LOQ	0.02				

Primary Aromas



Method: GC-FID CH SOP 401; based on dry weight; LOQ = Limit of Quantification; NR = Not Reported; ND = Not Detected



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
546 HPLC3 20191005-1	PMB100419102F	Cannabinoids	Blank

QC Notes

None

Compounds	Blank Result	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0	0.05	<LOQ	-
Δ9-THC	0	0.05	<LOQ	-
CBDa	0	0.05	<LOQ	-
CBD	0	0.05	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
546 HPLC3 20191005-1	PLCS100419102F	Cannabinoids	Lab Control Sample

QC Notes

None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	4.05	4.56	88.82	70 - 130	-
Δ9-THC	3.7	4.21	87.89	70 - 130	-
CBDa	4.09	4.62	88.53	70 - 130	-
CBD	3.87	4.39	88.15	57 - 143	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
546 HPLC3 20191005-1	PMS100419102F	Cannabinoids	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.04	13.29	<20	10	70 - 130	Below Limit Range
Δ9-THC	0.04	14.81	<20	88	70 - 130	-
CBDa	0.04	15.38	<20	83	70 - 130	-
CBD	0.04	<LOQ	<LOQ	93	70 - 130	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
092 LCQQQ4 20191005-2	MRMB100419101P LC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Acephate	100	<LOQ	
Acequinocyl	750	<LOQ	
Acetamiprid	100	<LOQ	
Aldicarb	300	<LOQ	
Abamectin	400	<LOQ	
Azoxystrobin	100	<LOQ	
Bifenazate	100	<LOQ	
Bifenthrin	100	<LOQ	
Boscalid	200	<LOQ	
Carbaryl	100	<LOQ	
Carbofuran	100	<LOQ	
Chlorantraniliprole	100	<LOQ	
Chlorpyrifos	150	<LOQ	
Clofentezine	100	<LOQ	
Daminozide	400	<LOQ	
Diazinon	100	<LOQ	
Dichlorvos	150	<LOQ	
Dimethoate	100	<LOQ	
Ethoprophos	100	<LOQ	
Etofenprox	200	<LOQ	
Etoxazole	100	<LOQ	
Fenoxycarb	100	<LOQ	
Fenpyroximate	200	<LOQ	
Flonicamid	200	<LOQ	
Hexythiazox	200	<LOQ	
Imazalil	100	<LOQ	
Imidacloprid	100	<LOQ	
Kresoxim Methyl	100	<LOQ	
Malathion	100	<LOQ	
Metalaxyl	100	<LOQ	

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Quality Control Data

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092 LCQQQ4 20191005-2	MRMB100419101P LC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Methiocarb	100	<LOQ	
Methomyl	100	<LOQ	
Myclobutanil	100	<LOQ	
Naled	100	<LOQ	
Oxamyl	100	<LOQ	
Paclobutrazol	100	<LOQ	
Permethrin	150	<LOQ	
Phosmet	100	<LOQ	
Piperonyl Butoxide	100	<LOQ	
Prallethrin	150	<LOQ	
Propiconazole	200	<LOQ	
Propoxur	100	<LOQ	
Pyrethrins	400	<LOQ	
Pyridaben	100	<LOQ	
Spinosad	100	<LOQ	
Spiromesifen	100	<LOQ	
Spirotetramat	100	<LOQ	
Spiroxamine	150	<LOQ	
Tebuconazole	100	<LOQ	
Thiacloprid	100	<LOQ	
Thiamethoxam	150	<LOQ	
Trifloxystrobin	100	<LOQ	

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458 GCQQQ1 20191005-2	MRMB10041901P GC	Required Pesticides	Blank

QC Notes

None

Compounds	LOQ (PPB)	Blank Result PPB	Notes
Chlorfenapyr	400	<LOQ	-
Cyfluthrin	400	<LOQ	-
Cypermethrin	400	<LOQ	-
Fipronil	100	<LOQ	-
Fludioxonil	200	<LOQ	-
MGK-264	100	<LOQ	-
Methyl Parathion	100	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
092 LCQQQ4 20191005-2	MRLCS100419101P LC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Acephate	88.35	56 - 149	-
Acequinocyl	99.39	30 - 142	-
Acetamiprid	90.16	56 - 149	-
Aldicarb	91.57	53 - 150	-
Abamectin	86.02	30 - 140	-
Azoxystrobin	89.71	55 - 138	-
Bifenazate	93.47	53 - 137	-
Bifenthrin	95.08	30 - 150	-
Boscalid	90.08	55 - 142	-
Carbaryl	91.76	56 - 150	-
Carbofuran	93.65	57 - 142	-
Chlorantraniliprole	88.72	54 - 141	-
Chlorpyrifos	94.56	34 - 150	-
Clofentezine	90.98	44 - 150	-
Daminozide	49.06	30 - 150	-
Diazinon	85.75	55 - 134	-
Dichlorvos	90.21	49 - 149	-
Dimethoate	91.11	56 - 149	-
Ethoprophos	97.78	52 - 143	-
Etofenprox	94.23	46 - 140	-
Etoxazole	85.31	50 - 134	-
Fenoxycarb	91.73	53 - 139	-
Fenproximate	92.78	45 - 127	-
Flonicamid	96.08	55 - 145	-
Hexythiazox	96.64	39 - 141	-
Imazalil	88.81	40 - 149	-
Imidacloprid	87.17	54 - 150	-
Kresoxim Methyl	94.06	57 - 139	-
Malathion	90.64	51 - 147	-
Metalaxyl	93.77	58 - 142	-

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Rebel Roots Farms

5432 N River Rd
Gold Hill, OR 97525
niles@rebelrootsfarms.com
(541) 363-6627
Lic. #030-100848592B2

Sample: 1910CH0106.0336

Strain: palpatine
Batch#: Tropsanto #11 - 100 ft Greenhouse - Sep 18, 2019; Batch Size: 4680 g
Sample Received: 10/04/2019; Report Created: 10/07/2019; Expires: 10/07/2020
Harvest/Production Date: 09/18/2019
Sampling: Random; Environment: Room Temp

Palpatine #5 9.18.19

Plant, Flower - Cured, Greenhouse
Harvest Process Lot: ; METRC Batch: 1a401030000e99a00003639; METRC Sample: 1A401030000E99A000003638



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
092 LCQQQ4 20191005-2	MRLCS100419101P LC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Methiocarb	93.8	50 - 150	-
Methomyl	91.69	55 - 150	-
Myclobutanil	97.06	54 - 145	-
Naled	90.11	49 - 146	-
Oxamyl	88.18	56 - 147	-
Paclobutrazol	92.78	56 - 139	-
Permethrin	90.59	30 - 138	-
Phosmet	89.47	57 - 146	-
Piperonyl Butoxide	94.61	48 - 146	-
Prallethrin	95.29	53 - 146	-
Propiconazole	90.17	49 - 129	-
Propoxur	93.01	56 - 150	-
Pyrethrins	93.85	30 - 150	-
Pyridaben	94.86	50 - 132	-
Spinosad	78.29	30 - 150	-
Spiromesifen	97.03	52 - 136	-
Spirotetramat	90.91	46 - 150	-
Spiroxamine	90.57	30 - 150	-
Tebuconazole	90.68	48 - 136	-
Thiacloprid	90.21	47 - 150	-
Thiamethoxam	87.57	57 - 147	-
Trifloxystrobin	94.03	46 - 147	-

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Strain: palpatine
Batch#: Tropsanto #11 - 100 ft Greenhouse - Sep 18, 2019; Batch Size: 4680 g
Sample Received: 10/04/2019; Report Created: 10/07/2019; Expires: 10/07/2020
Harvest/Production Date: 09/18/2019
Sampling: Random; Environment: Room Temp

Palpatine #5 9.18.19

Plant, Flower - Cured, Greenhouse
Harvest Process Lot: ; METRC Batch: 1a401030000e99a00003639; METRC Sample: 1A401030000E99A000003638



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
458 GCQQQ1 20191005-2	MRLCS10041901P GC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Chlorfenapyr	89	69 - 132	-
Cyfluthrin	86	68 - 136	-
Cypermethrin	83	67 - 134	-
Fipronil	89	67 - 136	-
Fludioxonil	102	69 - 139	-
MGK-264	88	65 - 145	-
Parathion Methyl	95	66 - 131	-



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Sample: 1910CH0106.0336

Strain: palpatine
Batch#: Tropsanto #11 - 100 ft Greenhouse - Sep 18, 2019; Batch Size: 4680 g
Sample Received: 10/04/2019; Report Created: 10/07/2019; Expires: 10/07/2020
Harvest/Production Date: 09/18/2019
Sampling: Random; Environment: Room Temp

Palpatine #5 9.18.19

Plant, Flower - Cured, Greenhouse
Harvest Process Lot: ; METRC Batch: 1a401030000e99a00003639; METRC Sample: 1A401030000E99A000003638



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
092 LCQQQ4 20191005-2	MRMS100419101P LC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Acephate	1.55	30	<30	86.9	52 - 150	-
Acequinocyl	2.83	30	<30	96.98	30 - 147	-
Acetamiprid	1.87	30	<30	88.5	47 - 148	-
Aldicarb	1.77	30	<30	92.25	48 - 145	-
Abamectin	4.29	30	<30	116.01	41 - 150	-
Azoxystrobin	2.22	30	<30	88.55	50 - 150	-
Bifenazate	1.29	30	<30	94.73	50 - 150	-
Bifenthrin	3.77	30	<30	88.27	46 - 150	-
Boscalid	1.26	30	<30	94.37	50 - 150	-
Carbaryl	0.2	30	<30	93.41	57 - 150	-
Carbofuran	0.97	30	<30	93.76	51 - 150	-
Chlorantraniliprole	2.38	30	<30	88.02	52 - 150	-
Chlorpyrifos	4	30	<30	98.38	30 - 150	-
Clofentezine	2.01	30	<30	96.62	53 - 146	-
Daminozide	0.96	30	<30	54.96	30 - 150	-
Diazinon	2.5	30	<30	90.23	41 - 145	-
Dichlorvos	1.56	30	<30	92.37	54 - 141	-
Dimethoate	0.91	30	<30	89.29	49 - 149	-
Ethoprophos	1.55	30	<30	100.29	47 - 146	-
Etofenprox	2.23	30	<30	93.76	38 - 150	-
Etoxazole	3.01	30	<30	89.87	34 - 150	-
Fenoxycarb	1.73	30	<30	94.96	54 - 150	-
Fenpyroximate	3.11	30	<30	94.04	34 - 150	-
Flonicamid	0.54	30	<30	93.46	45 - 143	-
Hexythiazox	3.26	30	<30	97.42	30 - 150	-
Imazalil	13.86	30	<30	80.57	30 - 147	-
Imidacloprid	0.29	30	<30	87.51	43 - 148	-
Kresoxim Methyl	1.49	30	<30	97.32	56 - 144	-
Malathion	1.17	30	<30	90.85	55 - 150	-
Metalaxyl	2.52	30	<30	92.6	50 - 150	-



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Sample: 1910CH0106.0336

Strain: palpatine
Batch#: Tropsanto #11 - 100 ft Greenhouse - Sep 18, 2019; Batch Size: 4680 g
Sample Received: 10/04/2019; Report Created: 10/07/2019; Expires: 10/07/2020
Harvest/Production Date: 09/18/2019
Sampling: Random; Environment: Room Temp

Palpatine #5 9.18.19

Plant, Flower - Cured, Greenhouse
Harvest Process Lot: ; METRC Batch: 1a401030000e99a00003639; METRC Sample: 1A401030000E99A000003638



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
092 LCQQQ4 20191005-2	MRMS100419101P LC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Methiocarb	1.16	30	<30	94.35	50 - 150	-
Methomyl	0.88	30	<30	90.7	42 - 150	-
Myclobutanil	2.95	30	<30	99.67	43 - 150	-
Naled	0.72	30	<30	93.05	46 - 150	-
Oxamyl	1.98	30	<30	86.38	41 - 150	-
Paclobutrazol	4.38	30	<30	98.65	47 - 150	-
Permethrin	4.55	30	<30	110.77	37 - 150	-
Phosmet	1.92	30	<30	90.29	35 - 150	-
Piperonyl Butoxide	2.01	30	<30	95.4	30 - 149	-
Prallethrin	3.23	30	<30	86.64	46 - 150	-
Propiconazole	4.39	30	<30	99.48	40 - 150	-
Propoxur	0.87	30	<30	92.56	53 - 150	-
Pyrethrins	1.68	30	<30	94.51	30 - 150	-
Pyridaben	3.74	30	<30	97.63	41 - 150	-
Spinosad	2.45	30	<30	74.88	30 - 150	-
Spiromesifen	3.04	30	<30	100.84	43 - 150	-
Spirotetramat	3.95	30	<30	83.28	48 - 150	-
Spiroxamine	0.93	30	<30	86	30 - 143	-
Tebuconazole	2.53	30	<30	110.44	45 - 150	-
Thiacloprid	2.9	30	<30	88.15	50 - 147	-
Thiamethoxam	1.67	30	<30	85.66	40 - 147	-
Trifloxystrobin	2.07	30	<30	96.39	50 - 150	-



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Palpatine #5 9.18.19

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Harvest Process Lot: ; METRC Batch: 1a401030000e99a00003639; METRC Sample: 1A401030000E99A000003638



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
458 GCQQQ1 20191005-2	MRMS10041901P GC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Chlorfenapyr	17.5	20	<20	106.27	62 - 130	
Cyfluthrin	2.09	20	<20	85.13	63 - 128	
Cypermethrin	5.76	20	<20	86.44	58 - 126	
Fipronil	1.86	20	<20	95.09	62 - 134	
Fludioxonil	3.07	20	<20	105.61	62 - 139	
MGK-264	0.66	20	<20	95.85	56 - 150	
Methyl Parathion	2.09	20	<20	97.25	63 - 135	



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