

Certificate of Analysis

Oregon Genetics Cannabis

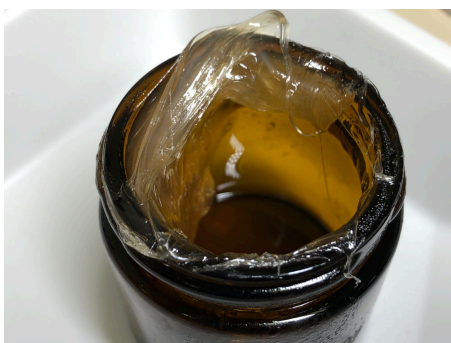
Corvallis, OR 97333
info@oregongeneticscannabis.com
(503) 891-4479
Lic. #030-1005028Bb660

Sample: 1806CH0131.0799

Strain: GG4
Batch#: gg61918; Batch Size: 4403.93 - grams
Sample Received: 06/19/2018; Report Created: 06/25/2018; Expires: 06/25/2019
Harvest/Production Date: 06/19/2018
Sampling: Random; Environment: Room Temp

GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Pass

Pesticides

Pass

Residual Solvents

Cannabinoids

158 HPLC3 20180622-3
06/23/2018

Pass

65.48%

Total THC* (Calculated
Decarboxylated Potential)

0.13%

Total CBD** (Calculated
Decarboxylated Potential)

75.55%

Total Cannabinoids Analyzed

Analyte	LOQ mg/g	Mass %	Mass mg/g
THCa		68.07	680.7
Δ9-THC		5.78	57.8
Δ8-THC		<LOQ	<LOQ
THCVa		<LOQ	<LOQ
THCV		<LOQ	<LOQ
CBDa		0.15	1.5
CBD		<LOQ	<LOQ
CBDV		<LOQ	<LOQ
CBNa		<LOQ	<LOQ
CBN		0.03	0.3
CBGa		1.37	13.7
CBG		0.11	1.1
CBCa		<LOQ	<LOQ
CBC		0.03	0.3
CBLa		<LOQ	<LOQ
Total		75.55	755.5

*Total THC = THCa * 0.877 + d9-THC. **Total CBD = CBDa * 0.877 + CBD. Report
Compliant with OAR Rule 333-008-1190.
Based on dry weight; LOQ = Limit of Quantification; NR = Not Reported; ND = Not
Detected

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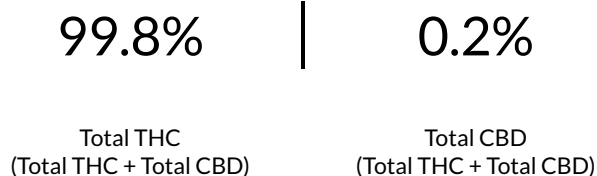
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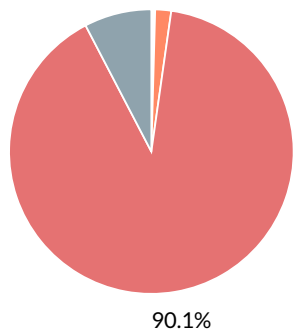
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Cannabinoid Ratios



■ CBC ■ CBG ■ CBN ■ CBDa
■ CBGa ■ %THCa ■ Δ9-THC



Analyte	LOQ mg/g	Mass %	Mass mg/g
THCa		68.07	680.7
Δ9-THC		5.78	57.8
Δ8-THC		<LOQ	<LOQ
THCVa		<LOQ	<LOQ
THCV		<LOQ	<LOQ
CBDa		0.15	1.5
CBD		<LOQ	<LOQ
CBDV		<LOQ	<LOQ
CBNa		<LOQ	<LOQ
CBN		0.03	0.3
CBGa		1.37	13.7
CBG		0.11	1.1
CBCa		<LOQ	<LOQ
CBC		0.03	0.3
CBLa		<LOQ	<LOQ
Total		75.55	755.5

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Residual Solvents

285 GMCS1 20180620-2
06/20/2018

Pass

Analyte	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
1,4-Dioxane	10	380	<LOQ	Pass
2-Butanol	50	5000	<LOQ	Pass
2-Ethoxy-Ethanol	10	160	<LOQ	Pass
2-Propanol IPA	20	5000	<LOQ	Pass
Acetone	10		82	Tested
Acetonitrile	40		<LOQ	Tested
Benzene	1		<LOQ	Tested
Butanes	10		667	Tested
Cumene	10		<LOQ	Tested
Cyclohexane	10		<LOQ	Tested
Dichloromethane	10		<LOQ	Tested
Ethyl-Acetate	10		<LOQ	Tested
Ethyl-Ether	10		<LOQ	Tested
Ethylene Glycol	500		<LOQ	Tested
Ethylene Oxide	10		<LOQ	Tested
Heptane	10		<LOQ	Tested
Hexanes	10		14	Tested
Isopropyl-Acetate	50		<LOQ	Tested
Methanol	40		<LOQ	Tested
Pentanes	10		<LOQ	Tested
Propane	10		<LOQ	Tested
Tetrahydrofuran	10		<LOQ	Tested
Toluene	10		<LOQ	Tested
Xylenes	10		<LOQ	Tested

LOQ = Limit of Quantification; PPM = Parts Per Million; NR = Not Reported; ND = Not Detected. Method: EPA 8260C, Agilent 6890A GCMS with 7679A Headspace Autosampler; ORELAP ID 4057

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Pesticides

175 LCQQQ3 20180620-2
06/21/2018

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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Informational Use Only - Not For Regulatory Use

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Terpenes

278 GCFID1 20180620-1
06/20/2018

Analyte	Mass %	Mass mg/g	LOQ %		Analyte	Mass %	Mass mg/g	LOQ %	
α-Pinene	0.07	0.7	0.02		Isoborneol	<LOQ	<LOQ	0.02	
Camphene	<LOQ	<LOQ	0.02		Borneol	<LOQ	<LOQ	0.02	
Sabinene	<LOQ	<LOQ	0.02		Hexahydro Thymol	<LOQ	<LOQ	0.02	
(-) -β-Pinene	0.09	0.9	0.02		α-Terpineol	0.04	0.4	0.02	
β-Myrcene	0.31	3.1	0.02		γ-Terpineol	<LOQ	<LOQ	0.02	
α-Phellandrene	<LOQ	<LOQ	0.02		Nerol	<LOQ	<LOQ	0.02	
δ-3-Carene	<LOQ	<LOQ	0.02		Pulegone	<LOQ	<LOQ	0.02	
α-Terpinene	<LOQ	<LOQ	0.02		Geraniol	<LOQ	<LOQ	0.02	
p-Isopropyltoluene	<LOQ	<LOQ	0.02		Farnesene	0.16	1.6	0.02	
δ-Limonene	0.56	5.6	0.02		α-Cedrene	0.06	0.6	0.02	
Eucalyptol	<LOQ	<LOQ	0.02		β-Caryophyllene	3.04	30.4	0.02	
Ocimene 1	<LOQ	<LOQ	0.02		α-Humulene	0.98	9.8	0.02	
Ocimene 2	<LOQ	<LOQ	0.02		Valencene	0.39	3.9	0.02	
γ-Terpinene	<LOQ	<LOQ	0.02		Geranyl Acetate	5.11	51.1	0.02	
Sabinene Hydrate	<LOQ	<LOQ	0.02		cis-Nerolidol	2.48	24.8	0.02	
Fenchone	<LOQ	<LOQ	0.02		β-Nerolidol	0.97	9.7	0.02	
Terpinolene	<LOQ	<LOQ	0.02		trans-Nerolidol	0.10	1.0	0.02	
Linalool	0.12	1.2	0.02		Caryophyllene Oxide	0.07	0.7	0.02	
Endo-Fenchyl Alcohol	0.11	1.1	0.02		(-) -Guaiol	0.03	0.3	0.02	
Camphor	<LOQ	<LOQ	0.02		Cedrol	<LOQ	<LOQ	0.02	
(-) -Isopulegol	<LOQ	<LOQ	0.02		(-) -α-Bisabolol	0.57	5.7	0.02	

Primary Aromas

15.26%					
Total Terpenes	Pine	Hops	Orange	Lavender	Basil

Method: GC-FID; 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
158 HPLC3 20180622-3	PMB06191801CN	Cannabinoids	Blank

QC Notes

None

Compounds	Blank Max % (LOQ)	Blank Result %	Notes
THCa	0.1	<LOQ	-
Δ9-THC	0.1	<LOQ	-
CBDa	0.1	<LOQ	-
CBD	0.1	<LOQ	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
158 HPLC3 20180622-3	PLCS06191801CN	Cannabinoids	Lab Control Sample

QC Notes

None

Compounds	LCS Result (%)	LCS Spike	LCS % Rec	% Limits	Notes
THCa	20.24	21.09	95.97	70 - 130	-
Δ9-THC	20.06	19.89	100.85	70 - 130	-
CBDa	6.47	6.93	93.36	70 - 130	-
CBD	7.04	7.17	98.19	57 - 143	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
158 HPLC3 20180622-3	PMS06191801CN	Cannabinoids	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
THCa	0.1	3.73	<20	83	70 - 130	-
Δ9-THC	0.1	15.25	<20	82	70 - 130	-
CBDa	0.1	19.35	<20	82	70 - 130	-
CBD	0.1	<LOQ	<LOQ	99	70 - 130	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
093 GCQQQ2 20180621-5	MRMB06191801C 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
175 LCQQQ3 20180620-2	MRMB06191801C	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	
Ettoxazole	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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175 LCQQQ3 20180620-2	MRMB06191801C	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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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
093 GCQQQ2 20180621-5	MRLCS06191801C GC	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Chlorfenapyr	99	69 - 132	-
Cyfluthrin	105	68 - 136	-
Cypermethrin	99	67 - 134	-
Fipronil	103	67 - 136	-
Fludioxonil	92	69 - 139	-
MGK-264	96	65 - 145	-
Parathion Methyl	98	66 - 131	-



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175 LCQQQ3 20180620-2	MRLCS06191801C	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Acephate	102.72	56 - 149	-
Acequinocyl	82.94	30 - 142	-
Acetamiprid	99.99	56 - 149	-
Aldicarb	100.12	53 - 150	-
Abamectin	92.02	30 - 140	-
Azoxystrobin	98.73	55 - 138	-
Bifenazate	105.68	53 - 137	-
Bifenthrin	106.66	30 - 150	-
Boscalid	102.77	55 - 142	-
Carbaryl	100.45	56 - 150	-
Carbofuran	101.14	57 - 142	-
Chlorantraniliprole	158.61	54 - 141	Above Limit Range
Chlorpyrifos	103.91	34 - 150	-
Clofentezine	107.97	44 - 150	-
Daminozide	355.54	30 - 150	Above Limit Range
Diazinon	100.43	55 - 134	-
Dichlorvos	103.31	49 - 149	-
Dimethoate	101.56	56 - 149	-
Ethoprophos	98.28	52 - 143	-
Etofenprox	98.19	46 - 140	-
Ettoxazole	93.09	50 - 134	-
Fenoxycarb	100.79	53 - 139	-
Fenpyroximate	94.32	45 - 127	-
Flonicamid	97.86	55 - 145	-
Hexythiazox	103.87	39 - 141	-
Imazalil	92.84	40 - 149	-
Imidacloprid	107.8	54 - 150	-
Kresoxim Methyl	102.15	57 - 139	-
Malathion	101.8	51 - 147	-
Metalaxyl	98.28	58 - 142	-



Certificate of Analysis

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Lic. #030-1005028Bb660

Sample: 1806CH0131.0799

Strain: GG4
Batch#: gg61918; Batch Size: 4403.93 - grams
Sample Received: 06/19/2018; Report Created: 06/25/2018; Expires: 06/25/2019
Harvest/Production Date: 06/19/2018
Sampling: Random; Environment: Room Temp

GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
175 LCQQQ3 20180620-2	MRLCS06191801C	Required Pesticides	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	LCS % Limits	Notes
Methiocarb	104.66	50 - 150	-
Methomyl	99.14	55 - 150	-
Myclobutanil	100.42	54 - 145	-
Naled	99.79	49 - 146	-
Oxamyl	98.1	56 - 147	-
Paclobutrazol	102.6	56 - 139	-
Permethrin	106.11	30 - 138	-
Phosmet	104.12	57 - 146	-
Piperonyl Butoxide	95.57	48 - 146	-
Prallethrin	106.55	53 - 146	-
Propiconazole	98.67	49 - 129	-
Propoxur	101.32	56 - 150	-
Pyrethrins	104.42	30 - 150	-
Pyridaben	97.65	50 - 132	-
Spinosad	77.26	30 - 150	-
Spiromesifen	97.58	52 - 136	-
Spirotetramat	78.44	46 - 150	-
Spiroxamine	80.67	30 - 150	-
Tebuconazole	100.48	48 - 136	-
Thiacloprid	102.11	47 - 150	-
Thiamethoxam	106.56	57 - 147	-
Trifloxystrobin	101.17	46 - 147	-



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Sampling: Random; Environment: Room Temp

GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
093 GCQQQ2 20180621-5	MRMS06191801C GC	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Chlorfenapyr	2.29	20	<20	99.64	62 - 130	
Cyfluthrin	0.11	20	<20	89.36	63 - 128	
Cypermethrin	1.04	20	<20	89.12	58 - 126	
Fipronil	1.37	20	<20	99.29	62 - 134	
Fludioxonil	0.08	20	<20	88.49	62 - 139	
MGK-264	1.62	20	<20	92.52	56 - 150	
Methyl Parathion	6.48	20	<20	98.03	63 - 135	



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Sampling: Random; Environment: Room Temp

GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
175 LCQQQ3 20180620-2	MRMS06191801C	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Acephate	2.35	30	<30	95.81	52 - 150	-
Acequinocyl	0.38	30	<30	91.24	30 - 147	-
Acetamiprid	1.89	30	<30	92.29	47 - 148	-
Aldicarb	0.1	30	<30	90.21	48 - 145	-
Abamectin	0.65	30	<30	151.01	41 - 150	Above Limit Range
Azoxystrobin	4.9	30	<30	91.28	50 - 150	-
Bifenazate	1.84	30	<30	99.05	50 - 150	-
Bifenthrin	2.3	30	<30	106.18	46 - 150	-
Boscalid	3.01	30	<30	85.95	50 - 150	-
Carbaryl	1.85	30	<30	91.3	57 - 150	-
Carbofuran	0.83	30	<30	93.99	51 - 150	-
Chlorantraniliprole	12.79	30	<30	141.04	52 - 150	-
Chlorpyrifos	0.28	30	<30	104.65	30 - 150	-
Clofentezine	0.49	30	<30	114.45	53 - 146	-
Daminozide	0.97	30	<30	313.46	30 - 150	Above Limit Range
Diazinon	0.32	30	<30	100.93	41 - 145	-
Dichlorvos	0.99	30	<30	95.69	54 - 141	-
Dimethoate	1.42	30	<30	96.47	49 - 149	-
Ethoprophos	1.08	30	<30	96.9	47 - 146	-
Etofenprox	1.05	30	<30	96.51	38 - 150	-
Ettoxazole	1.1	30	<30	88.92	34 - 150	-
Fenoxycarb	1.95	30	<30	92.88	54 - 150	-
Fenpyroximate	2.16	30	<30	97.3	34 - 150	-
Flonicamid	14.07	30	<30	103.72	45 - 143	-
Hexythiazox	9.07	30	<30	104.19	30 - 150	-
Imazalil	6.55	30	<30	65.81	30 - 147	-
Imidacloprid	2.48	30	<30	90.15	43 - 148	-
Kresoxim Methyl	0.22	30	<30	98.63	56 - 144	-
Malathion	1.8	30	<30	91.47	55 - 150	-
Metalaxyl	1.95	30	<30	90.25	50 - 150	-



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Sampling: Random; Environment: Room Temp

GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
175 LCQQQ3 20180620-2	MRMS06191801C	Required Pesticides	Spike

QC Notes

None

Compounds	Matrix Spike Duplicate % RPD	RPD Max %	% RPD Result	Matrix Spike % Rec	% Limits	Notes
Methiocarb	1.21	30	<30	97.11	50 - 150	-
Methomyl	0.77	30	<30	93.88	42 - 150	-
Myclobutanil	2.92	30	<30	92.11	43 - 150	-
Naled	4.53	30	<30	90.84	46 - 150	-
Oxamyl	1.87	30	<30	92.84	41 - 150	-
Paclobutrazol	3.53	30	<30	100.43	47 - 150	-
Permethrin	4.45	30	<30	88.68	37 - 150	-
Phosmet	2.81	30	<30	92.05	35 - 150	-
Piperonyl Butoxide	0.2	30	<30	102.52	30 - 149	-
Prallethrin	0.66	30	<30	99.67	46 - 150	-
Propiconazole	2.21	30	<30	102.66	40 - 150	-
Propoxur	0.57	30	<30	92.88	53 - 150	-
Pyrethrins	1.12	30	<30	108.15	30 - 150	-
Pyridaben	1.94	30	<30	100.38	41 - 150	-
Spinosad	5.26	30	<30	81.92	30 - 150	-
Spiromesifen	7.39	30	<30	87.49	43 - 150	-
Spirotetramat	2.92	30	<30	56.72	48 - 150	-
Spiroxamine	21.64	30	<30	81.57	30 - 143	-
Tebuconazole	1.44	30	<30	101.7	45 - 150	-
Thiacloprid	1.8	30	<30	92.36	50 - 147	-
Thiamethoxam	2.38	30	<30	97.52	40 - 147	-
Trifloxystrobin	0.73	30	<30	104.87	50 - 150	-



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GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
285 GMCS1 20180620-2	RSMB06191801	Required Solvents	Blank

QC Notes

None

Compounds	Method LOQ (PPM)	Blank Result PPM	Notes
Xylenes	30	<LOQ	-
1,4-Dioxane	10	<LOQ	-
2-Butanol	50	<LOQ	-
2-Ethoxy-Ethanol	10	<LOQ	-
2-Methyl-Butane	10	<LOQ	-
2-Methyl-Pentane	10	<LOQ	-
2,2-Dimethyl-Butane	10	<LOQ	-
2,3-Dimethyl-Butane	10	<LOQ	-
3-Methyl-Pentane	10	<LOQ	-
Acetone	10	<LOQ	-
Acetonitrile	40	<LOQ	-
Benzene	0.5	<LOQ	-
Butane	10	<LOQ	-
Cumene	10	<LOQ	-
Cyclohexane	10	<LOQ	-
Dichloro-Methane	10	<LOQ	-
Ethyl-Acetate	10	<LOQ	-
Ethyl-Benzene	10	<LOQ	-
Ethyl-Ether	10	<LOQ	-
Ethylene Glycol	500	<LOQ	-
Ethylene Oxide	10	<LOQ	-
Heptane	10	<LOQ	-
Isobutane	50	<LOQ	-
Isopropyl-Acetate	50	<LOQ	-
Isopropyl Alcohol	10	<LOQ	-
Methanol	40	<LOQ	-
Neopentane	10	<LOQ	-
n-Hexane	10	<LOQ	-
Pentane	10	<LOQ	-
Propane	50	<LOQ	-



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GG4

Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
285 GMCS1 20180620-2	RSMB06191801	Required Solvents	Blank

QC Notes

None

Compounds	Method LOQ (PPM)	Blank Result PPM	Notes
Tetrahydrofuran	10	<LOQ	-
Toluene	10	<LOQ	-



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Concentrates & Extracts, Other, Butane
Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
285 GMCS1 20180620-2	RSLCS06191801	Required Solvents	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Xylenes	75.2	69 - 131	-
1,4-Dioxane	83.4	67 - 133	-
2-Butanol	94.4	70 - 130	-
2-Ethoxy-Ethanol	69	70 - 130	Below Limit Range
2-Methyl-Butane	100.6	52 - 148	-
2-Methyl-Pentane	100.8	54 - 146	-
2,2-Dimethyl-Butane	100.6	54 - 146	-
2,3-Dimethyl-Butane	100.8	53 - 147	-
3-Methyl-Pentane	101.4	55 - 145	-
Acetone	98.4	56 - 144	-
Acetonitrile	101.4	60 - 140	-
Benzene	98.6	70 - 130	-
Butane	94.4	42 - 150	-
Cumene	71.8	68 - 132	-
Cyclohexane	100.2	56 - 144	-
Dichloro-Methane	99.4	58 - 142	-
Ethyl-Acetate	92.6	61 - 139	-
Ethyl-Benzene	76.8	61 - 139	-
Ethyl-Ether	100.6	55 - 145	-
Ethylene Glycol	34.8	33 - 150	-
Ethylene Oxide	100.2	65 - 135	-
Heptane	101.2	51 - 149	-
Isobutane	93.8	37 - 150	-
Isopropyl-Acetate	97.6	61 - 139	-
Isopropyl Alcohol	96.8	70 - 130	-
Methanol	102.2	56 - 144	-
Neopentane	96.6	42 - 150	-
n-Hexane	100.8	53 - 147	-
Pentane	99.8	51 - 149	-
Propane	83.4	30 - 150	-



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GG4

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Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
285 GMCS1 20180620-2	RSLS06191801	Required Solvents	Lab Control Sample

QC Notes

None

Compounds	LCS % Rec	% Limits	Notes
Tetrahydrofuran	98.6	60 - 140	-
Toluene	85.2	62 - 138	-



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Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
285 GMCS1 20180620-2	RSMS06191801	Required Solvents	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
Xylenes	30	<LOQ	<LOQ	69	30 - 142	-
1,4-Dioxane	10	<LOQ	<LOQ	75	53 - 147	-
2-Butanol	50	<LOQ	<LOQ	81	70 - 130	-
2-Ethoxy-Ethanol	10	<LOQ	<LOQ	59	53 - 147	-
2-Methyl-Butane	10	<LOQ	<LOQ	86	34 - 150	-
2-Methyl-Pentane	10	<LOQ	<LOQ	86	45 - 150	-
2,2-Dimethyl-Butane	10	<LOQ	<LOQ	86	44 - 150	-
2,3-Dimethyl-Butane	10	<LOQ	<LOQ	86	45 - 150	-
3-Methyl-Pentane	10	<LOQ	<LOQ	86	45 - 150	-
Acetone	10	17.2	<30	90	30 - 150	-
Acetonitrile	40	<LOQ	<LOQ	86	50 - 150	-
Benzene	0.5	<LOQ	<LOQ	86	56 - 144	-
Butane	10	41.1	>30	80	30 - 150	-
Cumene	10	<LOQ	<LOQ	72	30 - 150	-
Cyclohexane	10	<LOQ	<LOQ	84	47 - 150	-
Dichloro-Methane	10	<LOQ	<LOQ	88	49 - 150	-
Ethyl-Acetate	10	<LOQ	<LOQ	83	30 - 150	-
Ethyl-Benzene	10	<LOQ	<LOQ	69	48 - 150	-
Ethyl-Ether	10	<LOQ	<LOQ	85	45 - 150	-
Ethylene Glycol	500	<LOQ	<LOQ	36	30 - 150	-
Ethylene Oxide	10	<LOQ	<LOQ	83	53 - 147	-
Heptane	10	<LOQ	<LOQ	85	44 - 150	-
Isobutane	50	<LOQ	<LOQ	81	30 - 150	-
Isopropyl-Acetate	50	<LOQ	<LOQ	88	49 - 150	-
Isopropyl Alcohol	10	<LOQ	<LOQ	84	70 - 130	-
Methanol	40	<LOQ	<LOQ	83	30 - 150	-
Neopentane	10	<LOQ	<LOQ	84	31 - 150	-
n-Hexane	10	<LOQ	<LOQ	86	43 - 150	-
Pentane	10	<LOQ	<LOQ	85	40 - 150	-
Propane	50	<LOQ	<LOQ	71	30 - 150	-

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Harvest Process Lot: gg61918; METRC Batch: 1A4010300007DCA000010607; METRC Sample: 1A4010300007DCA000010615



Quality Control Data

Analytical Batch ID	QC Sample ID	Assay Name	QC Category Name
285 GMCS1 20180620-2	RSMS06191801	Required Solvents	Spike

QC Notes

None

Compounds	LOQ	Matrix Duplicate % RPD	Duplicate RPD Notes	Matrix Spike % Rec	% Limits	Notes
Tetrahydrofuran	10	<LOQ	<LOQ	82	49 - 150	-
Toluene	10	<LOQ	<LOQ	75	49 - 150	-

