

Matterhorn CBG

Lab ID: 2010032-03

Whole Circle Farms

AG-R10408871HG

Harvest / Process Lot: 09/2020

METRC Batch ID: WCF-2020-Matt-002

Date Sampled: 10/05/20

Date Printed: 10/9/20

Potency Analysis

Analytical Method: De Backer, Journal of Chromatography b.2009. 11.004 - SOP 102

Cannabinoids (% weight)		Moisture Adjusted	LOQ
THCA	0.0754	0.0838	0.0832
delta 9-THC	< LOQ	< LOQ	0.0832
delta 8-THC	< LOQ	< LOQ	0.0832
CBGA	9.60	10.7	0.0832
CBDA	0.216	0.240	0.0832
CBD	< LOQ	< LOQ	0.0832
CBN	< LOQ	< LOQ	0.0832
CBG	0.0794	0.0882	0.0832
CBC	< LOQ	< LOQ	0.0832
Total CBG	8.50	9.44	0.0832
Total Cannabinoids	8.75	9.73	0.0832

Total THC
< LOQ %

Total CBD
0.211 %

<LOQ - Results below the Limit of Quantitation

Acid form of THC/CBD are decarboxylated by heat, lose 12% of original mass as CO2. Result = *bioactive*

Total Cannabinoid accounts for decarboxylation and moisture content. Total THC = $[(THCA \times 0.877) + \Delta 9THC] / (100\% - MC)$

Moisture

Analysis Method/SOP: SOP 7

Moisture: 10.0 %

Water Activity

Analysis Method/SOP: SOP 8

Results above 0.65 fail state testing requirements and will be highlighted **Red**.

Water Activity: 0.583

PASS



Erik Werstler

Lab Director

Matterhorn CBG

Whole Circle Farms

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Whole Circle Farms

Sample ID: 2010032-03

Matrix: Hemp

M #:

Date Sampled: 10/05/20 14:28

Date Accepted: 10/05/20

Results Valid Until: 10/05/21

Pesticide Analysis in PPM

Date/Time Extracted: 10/06/20 13:26

Date/Time Analyzed: 10/07/20 01:22

Analysis Method/SOP: SOP 33

Instrument: Selene

Batch Identification: B20J022

Analyte	Result	Action Level	LOQ	Type
Abamectin	< LOQ	0.5	0.2500	Avermectin insecticide
Acephate	< LOQ	0.4	0.2000	Organophosphate Insecticide
Acequinocyl	< LOQ	2	1.000	Quinoline insecticide
Acetamiprid	< LOQ	0.2	0.1000	Neonicotinoid insecticide
Aldicarb	< LOQ	0.4	0.2000	Carbamate insecticide
Azoxystrobin	< LOQ	0.2	0.1000	Strobin fungicide
Bifenazate	< LOQ	0.2	0.1000	Carbazate miticide
Bifenthrin	< LOQ	0.2	0.1000	Pyrethroid insecticide
Boscalid	< LOQ	0.4	0.2000	Carboxamide fungicide
Carbaryl	< LOQ	0.2	0.1000	Carbamate insecticide
Carbofuran	< LOQ	0.2	0.1000	Carbamate insecticide
Chlorantraniliprole	< LOQ	0.2	0.1000	Anthranilic diamide insecticide
Chlorfenapyr	< LOQ	1	0.5000	Pyrrole insecticide
Chlorpyrifos	< LOQ	0.2	0.1000	Organophosphate Insecticide
Clofentezine	< LOQ	0.2	0.1000	Tetrazine miticide
Cyfluthrin	< LOQ	1	0.5000	Pyrethroid insecticide
Cypermethrin	< LOQ	1	0.5000	Pyrethroid insecticide
Daminozide	< LOQ	1	0.5000	Plant growth regulator
DDVP (Dichlorvos)	< LOQ	1	0.5000	Organophosphate insecticide
Diazinon	< LOQ	0.2	0.1000	Organophosphate Insecticide
Dimethoate	< LOQ	0.2	0.1000	Organophosphate insecticide
Ethoprophos	< LOQ	0.2	0.1000	Organophosphate insecticide
Etofenprox	< LOQ	0.4	0.2000	Pyrethroid insecticide
Etoxazole	< LOQ	0.2	0.1000	Oxazoline insecticide
Fenoxycarb	< LOQ	0.2	0.1000	Carbamate insecticide
Fenpyroximate	< LOQ	0.4	0.2000	Pyrazolium miticide
Fipronil	< LOQ	0.4	0.2000	Pyrazole insecticide
Fonicamid	< LOQ	1	0.5000	Pyridinecarboxamide insecticide



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Date/Time Analyzed: 10/07/20 01:22

Analysis Method/SOP: SOP 33

Instrument: Selene

Batch Identification: B20J022

Analyte	Result	Action Level	LOQ	Type
Fludioxonil	< LOQ	0.4	0.2000	Benzodioxole fungicide
Hexythiazox	< LOQ	1	0.5000	Heterocyclic miticide
Imazalil	< LOQ	0.2	0.1000	Imidazole fungicide
Imidacloprid	< LOQ	0.4	0.2000	Neonicotinoid insecticide
Kresoxim-methyl	< LOQ	0.4	0.2000	Strobilurin fungicide
Malathion	< LOQ	0.2	0.1000	Organophosphate insecticide
Metalaxyl	< LOQ	0.2	0.1000	Benzenoid fungicide
Methiocarb	< LOQ	0.2	0.1000	Carbamate insecticide
Methomyl	< LOQ	0.4	0.2000	Carbamate insecticide
Methyl parathion	< LOQ	0.2	0.1000	Organophosphate insecticide
MGK-264	< LOQ	0.2	0.1000	Pesticide synergist
Myclobutanil	< LOQ	0.2	0.1000	Triazole fungicide
Naled	< LOQ	0.5	0.2500	Organophosphate insecticide
Oxamyl	< LOQ	1	0.5000	Carbamate insecticide
Pacllobutrazol	< LOQ	0.4	0.2000	Triazole fungicide
Permethrins	< LOQ	0.2	0.1000	Pyrethroid insecticide
Phosmet	< LOQ	0.2	0.1000	Organophosphate insecticide
Piperonyl butoxide	< LOQ	2	1.000	Pesticide synergist
Prallethrin	< LOQ	0.2	0.1000	Pyrethroid insecticide
Propiconazole	< LOQ	0.4	0.2000	Triazole fungicide
Propoxur	< LOQ	0.2	0.1000	Carbamate insecticide
Pyrethrins	< LOQ	1	0.5000	Pyrethroid insecticide
Pyridaben	< LOQ	0.2	0.1000	Pyridazinone insecticide
Spinosad	< LOQ	0.2	0.1000	Spinosyn insecticide
Spiromesifen	< LOQ	0.2	0.1000	Keto-enol insecticide
Spirotetramat	< LOQ	0.2	0.1000	Keto-enol insecticide
Spiroxamine	< LOQ	0.4	0.2000	Spiroketalamine fungicide
Tebuconazole	< LOQ	0.4	0.2000	Triazole fungicide



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Date/Time Analyzed: 10/07/20 01:22

Analysis Method/SOP: SOP 33

Instrument: Selene

Batch Identification: B20J022

Analyte	Result	Action Level	LOQ	Type
Thiacloprid	< LOQ	0.2	0.1000	Neonicotinoid insecticide
Thiamethoxam	< LOQ	0.2	0.1000	Neonicotinoid insecticide
Trifloxystrobin	< LOQ	0.2	0.1000	Strobin fungicide

<LOQ - Results below the Limit of Quantitation - Compound not detected

Results above the Action Level fail state testing requirements and will be highlighted Red.



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Laboratory ID: 2010032-03

Quality Control Potency

Batch: B20J036 - Potency

Blank(B20J036-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
delta 9-THC	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
CBGA	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
CBDA	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
CBD	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
CBN	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
CBG	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
delta 8-THC	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	
CBC	< LOQ	0.0734	%		10/08/20 11:46	10/08/20 15:48	

LCS(B20J036-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	91.9	0.0709	%	85-115	10/08/20 11:46	10/08/20 15:58	
delta 9-THC	97.9	0.0709	%	85-115	10/08/20 11:46	10/08/20 15:58	
CBDA	94.4	0.0709	%	85-115	10/08/20 11:46	10/08/20 15:58	
CBD	96.3	0.0709	%	85-115	10/08/20 11:46	10/08/20 15:58	



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Quality Control Pesticide Analysis

Batch: B20J022 - Pest/Myco

Blank(B20J022-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	< LOQ	0.2500	ppm		10/06/20 13:26	10/06/20 23:31	
Acephate	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Acequinocyl	< LOQ	1.000	ppm		10/06/20 13:26	10/06/20 23:31	
Acetamiprid	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Aldicarb	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Azoxystrobin	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Bifenazate	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Bifenthrin	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Boscalid	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Carbaryl	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Carbofuran	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Chlorantraniliprole	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Chlorfenapyr	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Chlorpyrifos	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Clofentezine	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Cyfluthrin	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Cypermethrin	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Daminozide	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
DDVP (Dichlorvos)	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Diazinon	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Dimethoate	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Ethoprophos	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Etofenprox	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Etoxazole	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Fenoxycarb	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Fenpyroximate	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Fipronil	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Fonicamid	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Fludioxonil	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Hexythiazox	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Imazalil	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Imidacloprid	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Kresoxim-methyl	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Malathion	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	



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Quality Control Pesticide Analysis (Continued)

Batch: B20J022 - Pest/Myco (Continued)

Blank(B20J022-BLK1)

Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Metalaxyl	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Methiocarb	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Methomyl	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Methyl parathion	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
MGK-264	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Myclobutanil	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Naled	< LOQ	0.2500	ppm		10/06/20 13:26	10/06/20 23:31	
Oxamyl	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Paclobutrazol	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Permethrins	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Phosmet	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Piperonyl butoxide	< LOQ	1.000	ppm		10/06/20 13:26	10/06/20 23:31	
Prallethrin	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Propiconazole	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Propoxur	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Pyrethrins	< LOQ	0.5000	ppm		10/06/20 13:26	10/06/20 23:31	
Pyridaben	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Spinosad	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Spiromesifen	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Spirotetramat	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Spiroxamine	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Tebuconazole	< LOQ	0.2000	ppm		10/06/20 13:26	10/06/20 23:31	
Thiacloprid	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Thiamethoxam	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	
Trifloxystrobin	< LOQ	0.1000	ppm		10/06/20 13:26	10/06/20 23:31	

LCS(B20J022-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Abamectin	94.2	0.2500	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Acephate	89.3	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Acequinocyl	109	1.000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Acetamiprid	101	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Aldicarb	81.8	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Azoxystrobin	97.1	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Bifenazate	102	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	



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Quality Control

Pesticide Analysis (Continued)

Batch: B20J022 - Pest/Myco (Continued)

LCS(B20J022-BS1)

Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Bifenthrin	102	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Boscalid	97.4	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Carbaryl	104	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Carbofuran	93.6	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Chlorantraniliprole	92.7	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Chlorfenapyr	142	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Chlorpyrifos	150	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Clofentezine	145	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Cyfluthrin	168	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	Q3
Cypermethrin	156	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	Q3
Daminozide	90.0	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
DDVP (Dichlorvos)	105	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Diazinon	104	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Dimethoate	101	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Ethoprophos	97.2	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Etofenprox	87.0	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Etoxazole	112	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Fenoxycarb	124	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Fenpyroximate	117	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Fipronil	95.5	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Flonicamid	86.8	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Fludioxonil	83.0	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Hexythiazox	153	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	Q3
Imazalil	85.6	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Imidacloprid	89.1	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Kresoxim-methyl	107	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Malathion	105	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Metalaxyl	98.7	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Methiocarb	106	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Methomyl	88.4	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Methyl parathion	110	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
MGK-264	142	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Myclobutanil	107	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Naled	107	0.2500	ppm	50-150	10/06/20 13:26	10/06/20 23:15	



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Quality Control Pesticide Analysis (Continued)

Batch: B20J022 - Pest/Myco (Continued)

LCS(B20J022-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Oxamyl	91.7	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Paclobutrazol	82.4	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Permethrins	101	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Phosmet	113	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Piperonyl butoxide	101	1.000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Prallethrin	122	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Propiconazole	97.7	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Propoxur	89.8	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Pyrethrins	138	0.5000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Pyridaben	73.1	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Spinosad	100	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Spiromesifen	103	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Spirotetramat	107	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Spiroxamine	97.3	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Tebuconazole	106	0.2000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Thiacloprid	95.8	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Thiamethoxam	93.3	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	
Trifloxystrobin	102	0.1000	ppm	50-150	10/06/20 13:26	10/06/20 23:15	

Moisture Content

Batch: B20J030 - Moisture Content

Blank(B20J030-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.200	0.00	%		10/07/20 13:07	10/07/20 13:07	

LCS(B20J030-BS1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	97.9	0.00	%	80-120	10/07/20 13:07	10/07/20 13:07	

Batch: B20J031 - WA

Blank(B20J031-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Water Activity	0.409	0.230	AW		10/07/20 13:10	10/07/20 13:10	



Erik Werstler
Lab Director

Matterhorn CBG

Whole Circle Farms

AG-R10408871HG

Laboratory ID: 2010032-03

Notes and Definitions

- B Analyte detected in method blank, but not associated samples.
 - B2 Analyte detected in sample and associate method blank.
 - C Interference due to co-elution.
 - D Initial result exceeded calibration range, reported data are based on analysis of a dilution.
 - H Non-homogenous sample matrix affecting RPD and/or QC.
 - I Manual Integration was performed.
 - L Duplicate sample relative percent difference (RPD) exceeds QC limits.
 - M Anomalous results due to matrix interference
 - P Peaks manually split.
 - Q1 QC out of limits but still ok
 - Q2 Quality Control outside QC limits. Data considered estimate.
 - Q3 CCV was above the acceptance criteria. Non-detect samples are considered acceptable.
 - Q4 CCV was below the acceptance criteria, however the sample still exceeds the regulatory limit.
 - R Marginal Exceedence.
 - U Reported result is an estimate. The analyte was detected above the calibration range.
 - X Problems with initial analysis, reported data are from reinjection of prepared sample.
- <LOQ - Results below the Limit of Quantitation - Compound not detected



Erik Werstler

Lab Director