



Lemon Octane

Sample ID: G4I0194-02

Matrix: Industrial Hemp

Test ID: 5027285

Source ID:

Date Sampled: 09/18/24

Date Accepted: 09/18/24

Fern Valley Farms
fernvalleycbd@gmail.com

Results at a Glance

Total THC : 1.1 %

Total CBD : 19 %

Total CBG : 2.0 %

Percent Moisture : 7.42 % **PASS**

Total Terpenes : 1.637 % **PASS**



ISO 17025
ACCREDITED
LABORATORY

Nolan Mundie
Lab Director - 9/23/2024

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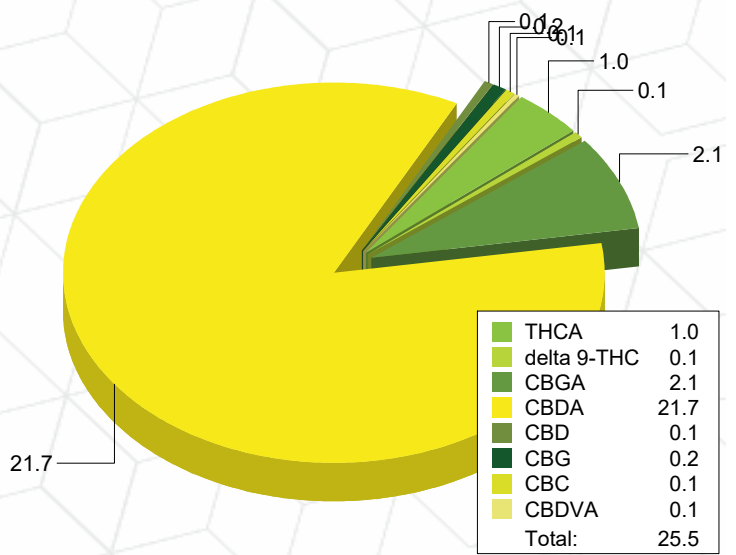
Potency Analysis

Date/Time Extracted: 09/20/24 10:09

Analysis Method/SOP: 215

Batch Identification: 2438045

	LOQ (%)	% by Wt.	mg/g	Cannabinoids Profile	
Total THC	0.010	1.1	11		
Total CBD	0.009	19	190		
Total CBG	0.0009	2.0	20		
THCA	0.0005	1.0	10		
delta 9-THC	0.0005	0.15	1.5		
delta 8-THC	0.005	< LOQ	< LOQ		
THCV	0.005	< LOQ	< LOQ		
THCVA	0.002	< LOQ	< LOQ		
CBD	0.002	0.12	1.2		
CBDA	0.002	22	220		
CBDV	0.005	< LOQ	< LOQ		
CBDVA	0.002	0.076	0.76		
CBN	0.003	< LOQ	< LOQ		
CBG	0.0009	0.21	2.1		
CBGA	0.0009	2.1	21		
CBC	0.010	0.14	1.4		



Moisture

Date/Time Extracted: 09/19/24 13:19

Analysis Method/SOP: 103

Moisture: 7.42 %

Action Level: 90%

Potency results are reported on a dry weight basis.

Total THC = delta 9-THC + (THCA * 0.877)

Total CBD = CBD + (CBDA * 0.877)

Total CBG = CBG + (CBGA * 0.878)

LOQ=Limit of Quantification, the lowest measurable concentration of an analyte.

THCA, delta 9-THC, delta 8-THC, CBDA and CBD are accredited by TNI 2016 and ISO 17025



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Test ID: 5027285

Source ID:

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Date Accepted: 09/18/24

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Terpene Analysis by GCMS

Date/Time Extracted: 09/20/24 10:09

Analysis Method/SOP: 204

Date/Time Analyzed: 09/20/24 16:39

Analyte	Result	LOD	LOQ	Units	Analyte	Result	LOD	LOQ	Units
(-)-Borneol	< LOQ	0.002	0.005	mg/g	(+)-Borneol	< LOQ	0.002	0.005	mg/g
3-Carene	< LOQ	0.002	0.005	mg/g	alpha-Bisabolol	0.83	0.002	0.005	mg/g
alpha-Cedrene	< LOQ	0.002	0.005	mg/g	alpha-Humulene	1.21	0.002	0.005	mg/g
Alpha-Phellandrene	< LOQ	0.002	0.005	mg/g	alpha-Pinene	0.18	0.002	0.005	mg/g
alpha-Terpinene	< LOQ	0.002	0.005	mg/g	alpha-Thujone	< LOQ	0.002	0.005	mg/g
A-Terpineol	0.21	0.002	0.005	mg/g	beta-Caryophyllene	3.78	0.002	0.005	mg/g
beta-Myrcene	5.2	0.002	0.005	mg/g	beta-Pinene	0.29	0.002	0.005	mg/g
Camphene	< LOQ	0.002	0.005	mg/g	Camphor	< LOQ	0.002	0.005	mg/g
Carvacrol	< LOQ	0.002	0.005	mg/g	Carvone	< LOQ	0.002	0.005	mg/g
Caryophyllene Oxide	< LOQ	0.002	0.005	mg/g	Cedrol	< LOQ	0.002	0.005	mg/g
Cis-beta-Farnesene	0.3	0.002	0.005	mg/g	Cis-beta-Ocimene	< LOQ	0.002	0.005	mg/g
cis-Nerolidol	< LOQ	0.002	0.005	mg/g	Citral	< LOQ	0.002	0.005	mg/g
Citronellol	< LOQ	0.002	0.005	mg/g	Endo-fenchyl alcohol	0.23	0.002	0.005	mg/g
Eucalyptol	< LOQ	0.002	0.005	mg/g	Farnesol 1	< LOQ	0.002	0.005	mg/g
Farnesol 2	< LOQ	0.002	0.005	mg/g	gamma-Terpinene	< LOQ	0.002	0.005	mg/g
Geraniol	< LOQ	0.002	0.005	mg/g	Geranyl acetate	< LOQ	0.002	0.005	mg/g
Guaiol	0.88	0.002	0.005	mg/g	Isoborneol	< LOQ	0.002	0.005	mg/g
Isobornyl Acetate	< LOQ	0.002	0.005	mg/g	Isopulegol	< LOQ	0.002	0.005	mg/g
Limonene	2.1	0.002	0.005	mg/g	Linalool	0.61	0.002	0.005	mg/g
Menthol	< LOQ	0.002	0.005	mg/g	Menthone	< LOQ	0.002	0.005	mg/g
Nootkatone	< LOQ	0.002	0.005	mg/g	Octyl Acetate	< LOQ	0.002	0.005	mg/g
p-Cymene	< LOQ	0.002	0.005	mg/g	Phytane	< LOQ	0.002	0.005	mg/g
Piperitone	< LOQ	0.002	0.005	mg/g	Pulegone	< LOQ	0.002	0.005	mg/g
Sabinene	< LOQ	0.002	0.005	mg/g	Sabinene hydrate	< LOQ	0.002	0.005	mg/g
Safranal	< LOQ	0.002	0.005	mg/g	Squalene	< LOQ	0.002	0.005	mg/g
Terpinen-4-ol	0.13	0.002	0.005	mg/g	Terpinolene	< LOQ	0.002	0.005	mg/g
Thymol	< LOQ	0.002	0.005	mg/g	trans-beta-Farnesene	0.27	0.002	0.005	mg/g
trans-beta-Ocimene	< LOQ	0.002	0.005	mg/g	trans-Nerolidol	< LOQ	0.002	0.005	mg/g
Valencene	0.29	0.002	0.005	mg/g	Verbenone	< LOQ	0.002	0.005	mg/g
Total Terpenes	16.37	0.002	0.005	mg/g					

ND - Compound not detected, <LOQ - Results below the Limit of Quantitation
Terpenes are not Accredited by ORELAP to TNI 2016 and ISO 17025



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Lab Director - 9/23/2024



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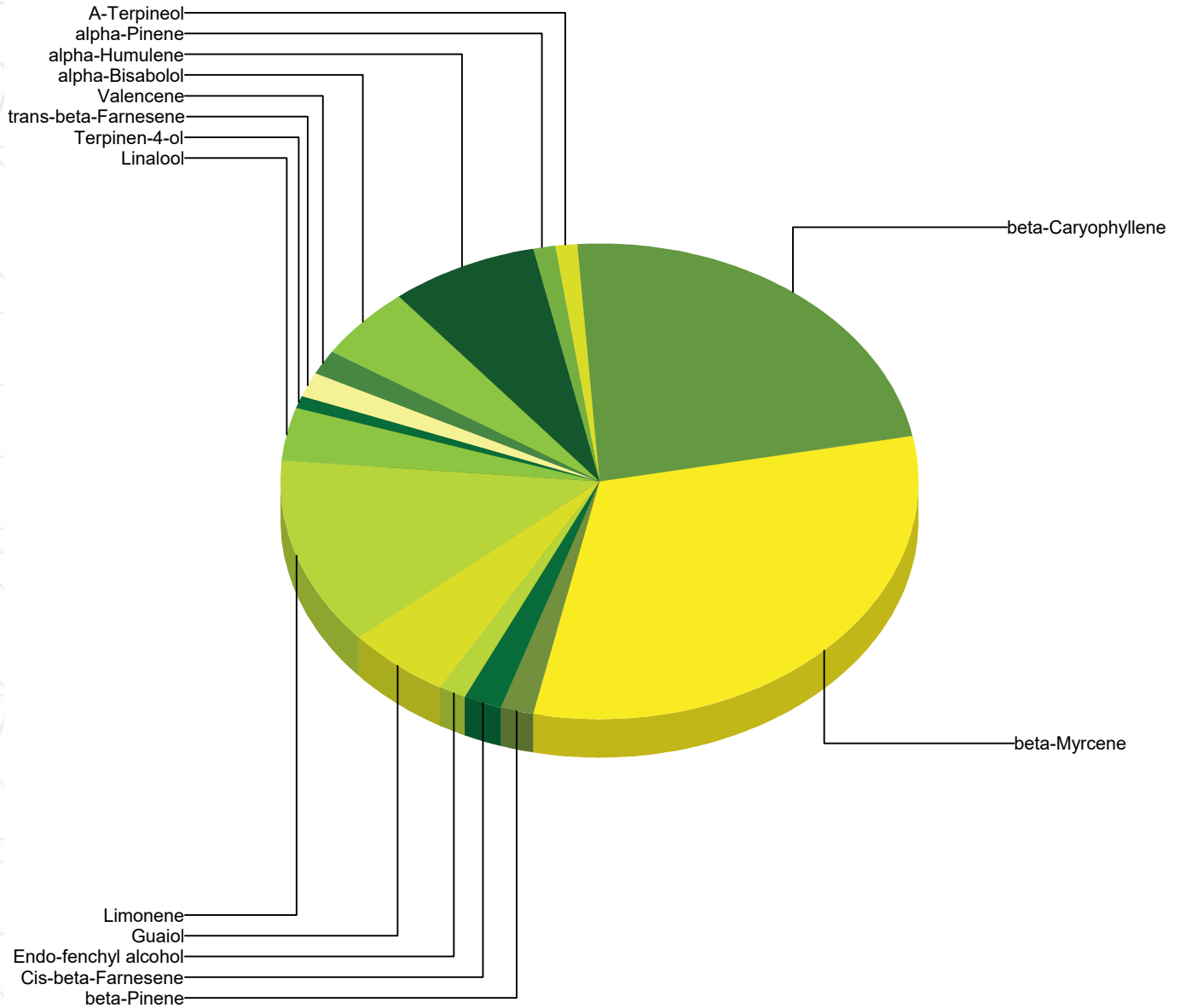
Source ID:

Date Sampled: 09/18/24

Date Accepted: 09/18/24

Fern Valley Farms
fernvalleycbd@gmail.com

Terpene Profile



Percentage of Total Terpenes Identified



Nolan Mundie
Lab Director - 9/23/2024



Quality Control Potency

Batch: 2438045 - 215-Hemp

Blank(2438045-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	< LOQ	0.0005	%		09/20/24 10:09	09/20/24 20:21	
delta 9-THC	< LOQ	0.0005	%		09/20/24 10:09	09/20/24 20:21	
delta 8-THC	< LOQ	0.004	%		09/20/24 10:09	09/20/24 20:21	
THCV	< LOQ	0.005	%		09/20/24 10:09	09/20/24 20:21	
THCVA	< LOQ	0.002	%		09/20/24 10:09	09/20/24 20:21	
CBD	< LOQ	0.0005	%		09/20/24 10:09	09/20/24 20:21	
CBDA	< LOQ	0.0005	%		09/20/24 10:09	09/20/24 20:21	
CBDV	< LOQ	0.005	%		09/20/24 10:09	09/20/24 20:21	
CBDVA	< LOQ	0.002	%		09/20/24 10:09	09/20/24 20:21	
CBN	< LOQ	0.003	%		09/20/24 10:09	09/20/24 20:21	
CBG	< LOQ	0.0008	%		09/20/24 10:09	09/20/24 20:21	
CBGA	< LOQ	0.0008	%		09/20/24 10:09	09/20/24 20:21	
CBC	< LOQ	0.009	%		09/20/24 10:09	09/20/24 20:21	

Reference(2438045-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
THCA	101	0.0005	%	90-110	09/20/24 10:09	09/20/24 20:43	
delta 9-THC	94.1	0.0005	%	90-110	09/20/24 10:09	09/20/24 20:43	
delta 8-THC	91.6	0.004	%	90-110	09/20/24 10:09	09/20/24 20:43	
CBD	98.4	0.0005	%	90-110	09/20/24 10:09	09/20/24 20:43	
CBDA	106	0.0005	%	90-110	09/20/24 10:09	09/20/24 20:43	

Moisture Content

Batch: 2438040 - 103

Blank(2438040-BLK1)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.320		%		09/19/24 13:19	09/19/24 13:19	

Blank(2438040-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	0.360		%		09/19/24 13:19	09/19/24 13:19	

Reference(2438040-SRM1)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	100		%	80-120	09/19/24 13:19	09/19/24 13:19	

Reference(2438040-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Percent Moisture	103		%	80-120	09/19/24 13:19	09/19/24 13:19	

Batch: 2438045 - 215-Hemp

Blank(2438045-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes



Nolan Mundie
Lab Director - 9/23/2024



Quality Control Terpene Analysis (Continued)

Batch: 2438045 - 215-Hemp (Continued)

Blank(2438045-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Camphene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Camphor	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
3-Carene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
beta-Caryophyllene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Caryophyllene Oxide	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
alpha-Cedrene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Cedrol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Endo-fenchyl alcohol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Eucalyptol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Geraniol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Geranyl acetate	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Guaiol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
alpha-Humulene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Isoborneol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Isopulegol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Limonene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Linalool	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
beta-Myrcene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
trans-Nerolidol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
alpha-Pinene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
beta-Pinene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Pulegone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Sabinene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Sabinene hydrate	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
gamma-Terpinene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
alpha-Terpinene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Terpinolene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Valencene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Verbenone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
trans-beta-Farnesene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
A-Terpineol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
cis-Nerolidol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Thymol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Terpinen-4-ol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Squalene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Safranal	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Piperitone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	



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Quality Control Terpene Analysis (Continued)

Batch: 2438045 - 215-Hemp (Continued)

Blank(2438045-BLK2)							
Analyte	Result	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
Phytane	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
p-Cymene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Octyl Acetate	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Nootkatone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Menthone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Menthol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Isobornyl Acetate	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Farnesol 1	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Carvone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
alpha-Thujone	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Alpha-Phellandrene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
(+)-Borneol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
(-)-Borneol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Carvacrol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
trans-beta-Ocimene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Cis-beta-Ocimene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Citral	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Citronellol	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Farnesol 2	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	
Cis-beta-Farnesene	< LOQ	0.000500	%		09/20/24 10:09	09/20/24 15:25	

Reference(2438045-SRM2)							
Analyte	% Recovery	LOQ	Units	%Recovery Limits	Extracted	Analyzed	Notes
alpha-Bisabolol	103	0.00025	%	70-130	09/20/24 10:09	09/20/24 15:44	
beta-Caryophyllene	111	0.00025	%	70-130	09/20/24 10:09	09/20/24 15:44	
alpha-Humulene	117	0.00025	%	70-130	09/20/24 10:09	09/20/24 15:44	
Limonene	89.1	0.00025	%	70-130	09/20/24 10:09	09/20/24 15:44	



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Lab Director - 9/23/2024

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Notes and Definitions

Regulatory Compliance samples were collected onsite at facility according to SOP-402 and SOP-403 and following Sampling Plan FN117. Quality Control samples were tested as received. Results do not include uncertainty of measurements. Available upon request.

- ATM Non-cannabis matrix related interference or suppression of Internal standard
- BLI Baseline Interference - Cannabinoid peak interference in chromatographic baseline affecting QC recovery .
- BLK Analyte detected in method blank, but not associated samples.
- BSH Blank Spike High - Blank Spike recovery above method limit. no detections in samples.
- BSL Blank Spike Low - Blank Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
- C CBD Interference due to co-elution
- CV1 CBD matrix interference on GC Pest chromatography
- CV2 CCV was above acceptance criteria, Non-detect samples are considered acceptable.
- INF CCV was below acceptance criteria, sample still exceeds regulatory limit.
- ISH One or more QC falls outside acceptance criteria. Data entered into LIMS for informational purposes only.
- ISL Internal Standard concentration is above acceptance criteria.
- MSH Internal Standard concentration is below acceptance criteria.
- MSI Matrix Spike High - Matrix Spike recovery above method limits.
- MSL Matrix Spike Interference - Matrix spike source sample contains analyte hit above calibration affecting recovery accuracy in Matrix Spike.
- TPP
- U Matrix Spike Low - Matrix Spike recovery below lower method limit, analyte chromatography reviewed manually for all samples.
Internal Standard concentration outside control limit due to matrix interference



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