

359 - ACDC RCO 2.15.20

Farmer's Friend Extracts
 6451 NE Colwood Wy
 Portland, OR 97218
 503-442-8653

Sample Type: Extracts
Sample Date: 2/18/2020
Analysis Date: 2/20/2020
Report Date: 2/25/2020

Metric Batch ID:
 1A4010300016315000022444
Metric Sample ID:
 1A4010300016315000022509

Harvest/Process Date: 2/15/2020
Report ID: LS-200225-12
Sample Plan ID: SP-200218-1-D
Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Potency

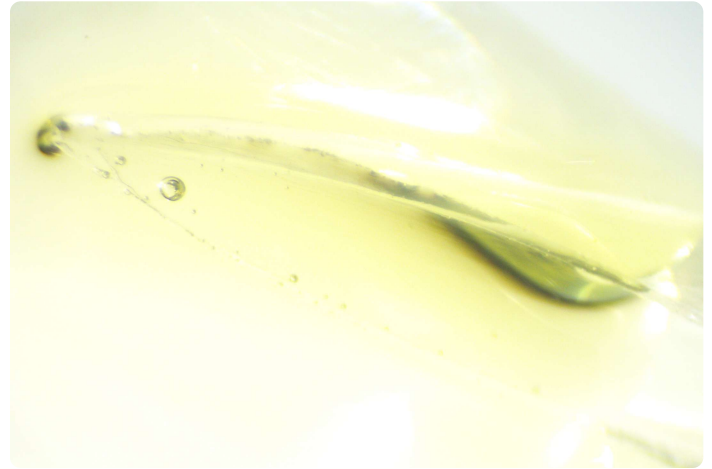
Potency Analysis Date: 2/21/2020
 Potency Batch ID: CAN_022120C
 Potency Method: JAOAC 2015.1

53.2%

**Total
CBD**

19.0%




**Total
THC**



Samples: XRS-FHX-XBN, MJG-SHW-MJW

| Analyte | Description | LOQ | RPD | Min. | Max. | Avg. | Unit: % |
|------------------|-------------------------------|------|-------------|-------------|-------------|----------------|---------|
| Δ9THC | Delta-9 Tetrahydrocannabinol | 0.16 | 2.40 | 18.7 | 19.2 | 19.0 | |
| THCA | Tetrahydrocannabinolic acid | 0.16 | 0.00 | ND | ND | ND | |
| CBD | Cannabidiol | 0.16 | 14.5 | 49.3 | 57.0 | 53.2 | |
| CBDA | Cannabidiolic acid | 0.16 | 0.00 | ND | <LOQ | <LOQ | |
| Δ8THC | Delta-8 Tetrahydrocannabinol* | 0.16 | 0.00 | ND | ND | ND | |
| THCV | Tetrahydrocannabivarin* | 0.16 | 13.8 | ND | 0.184 | 0.0919 | |
| CBG | Cannabigerol* | 0.16 | 3.74 | 1.31 | 1.36 | 1.34 | |
| CBGA | Cannabigerolic acid* | 0.16 | 0.00 | ND | <LOQ | <LOQ | |
| CBC | Cannabichromene* | 0.16 | 8.11 | 2.36 | 2.56 | 2.46 | |
| CBCA | Cannabichromenic acid* | 0.16 | 0.00 | ND | ND | ND | |
| CBN | Cannabinol | 0.16 | 45.9 | <LOQ | 0.255 | 0.255 | |
| Total THC | Δ9THC + (THCA × 0.877) | | 2.40 | 18.7 | 19.2 | 19.0 | |
| Total CBD | CBD + (CBDA × 0.877) | | 14.5 | 49.3 | 57.0 | 53.2 | |
| Total | | | 10.4 | 71.8 | 80.6 | 76.3 | |

Compliance

| | | | |
|-------------------|---------------|--------------------------|--|
| Pesticides | Within limits | Analysis Date: 2/20/2020 | Pass  |
| Solvents | Within limits | Analysis Date: 2/21/2020 | Pass  |
| Potency | Within limits | Analysis Date: 2/21/2020 | Pass  |


 Bryce Kidd, Ph.D.
 Lab Director


 Aaron Troyer
 Chief Science Officer



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Metric Sample ID:
 1A4010300016315000022509

Harvest/Process Date: 2/15/2020
Report ID: LS-200225-12
Sample Plan ID: SP-200218-1-D
Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Terpene Analysis Date: 2/20/2020
Terpene Batch ID: TRP_022020B

Method: JAOAC 2015.1
Unit: %

| Analyte | Avg. | Notes | Analyte | Avg. | Notes |
|---------------------|----------|-------|------------------|--------------|-------|
| β-Farnesene 2 | 1.58% | | Geraniol | ND | |
| β-Caryophyllene | 1.36% | | Geranyl Acetate | ND | |
| Selinadiene | 0.946% | | Isoborneol | ND | |
| Humulene | 0.433% | | Isopulegol | ND | |
| β-Myrcene | 0.233% | | Nerol | ND | |
| α-Bisabolol | 0.185% | | Pulegone | ND | |
| Guaiol | 0.181% | | Sabinene Hydrate | ND | |
| Limonene | 0.163% | | Valencene | ND | |
| Linalool | 0.136% | | cis-Nerolidol | ND | |
| Fenchol | 0.0883% | | trans-Nerolidol | ND | |
| Caryophyllene Oxide | 0.0854% | | α-Cedrene | ND | |
| α-Terpineol | 0.0582% | | α-Phellandrene | ND | |
| β-Ocimene | 0.0323% | | β-Farnesene 1 | ND | |
| β-Pinene | 0.0209% | | γ-Terpineol | ND | |
| Sabinene | 0.0191% | | Total | 5.57% | |
| Borneol | 0.0173% | | | | |
| Terpinolene | 0.0104% | | | | |
| α-Pinene | 0.00838% | | | | |
| α-Ocimene | 0.00557% | | | | |
| Fenchone | 0.00458% | | | | |
| Eucalyptol | 0.00325% | | | | |
| α-Terpinene | 0.00181% | | | | |
| γ-Terpinene | 0.00172% | | | | |
| Δ3-Carene | 0.00133% | | | | |
| Camphene | 0.00122% | | | | |
| Azulene | ND | | | | |
| Camphore | ND | | | | |
| Cedrol | ND | | | | |
| Cymene | ND | | | | |

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Sample Procedure: 160721_LAB-SOP_SampleCollection-v007



Pesticides Analysis Date: 2/20/2020
 Pesticides Batch ID: PST_022020A

Method: EN 15662
 Unit: µg/g (ppm)

Pass 

| Analyte | MJG-SHW-MJW | XRS-FHX-XBN | Limits | LOQ | Notes | Status | Analyte | MJG-SHW-MJW | XRS-FHX-XBN | Limits | LOQ | Notes | Status |
|---------------------|-------------|-------------|--------|-----|-------|--------|--------------------|-------------|-------------|--------|-----|-------|--------|
| Abamectin | ND | ND | 0.5 | 0.1 | | Pass | Metalaxyl | ND | ND | 0.2 | 0.1 | | Pass |
| Acephate | ND | ND | 0.4 | 0.1 | | Pass | Methiocarb | ND | ND | 0.2 | 0.1 | | Pass |
| Acequinocyl | ND | ND | 2.0 | 1.5 | | Pass | Methomyl | ND | ND | 0.4 | 0.1 | | Pass |
| Acetamiprid | ND | ND | 0.2 | 0.1 | | Pass | Methyl Parathion | ND | ND | 0.2 | 0.2 | | Pass |
| Aldicarb | ND | ND | 0.4 | 0.1 | | Pass | MGK-264 | ND | ND | 0.2 | 0.2 | | Pass |
| Azoxystrobin | ND | ND | 0.2 | 0.1 | | Pass | Myclobutanil | ND | ND | 0.2 | 0.1 | | Pass |
| Bifenazate | ND | ND | 0.2 | 0.1 | | Pass | Naled | ND | ND | 0.5 | 0.2 | | Pass |
| Bifenthrin | ND | ND | 0.2 | 0.1 | | Pass | Oxamyl | ND | ND | 1.0 | 0.1 | | Pass |
| Boscalid | ND | ND | 0.4 | 0.1 | | Pass | Paclobutrazol | ND | ND | 0.4 | 0.1 | | Pass |
| Carbaryl | ND | ND | 0.2 | 0.1 | | Pass | Permethrins | ND | ND | 0.2 | 0.1 | | Pass |
| Carbofuran | ND | ND | 0.2 | 0.1 | | Pass | Phosmet | ND | ND | 0.2 | 0.1 | | Pass |
| Chlorantraniliprole | ND | ND | 0.2 | 0.1 | | Pass | Piperonyl Butoxide | ND | ND | 2.0 | 0.1 | | Pass |
| Chlorfenapyr | ND | ND | 1.0 | 0.1 | | Pass | Prallethrin | ND | ND | 0.2 | 0.1 | | Pass |
| Chlorpyrifos | ND | ND | 0.2 | 0.1 | | Pass | Propiconazole | ND | ND | 0.4 | 0.1 | | Pass |
| Clofentezine | ND | ND | 0.2 | 0.1 | | Pass | Propoxur | ND | ND | 0.2 | 0.1 | | Pass |
| Cyfluthrin | ND | ND | 1.0 | 0.5 | | Pass | Pyrethrins | ND | ND | 1.0 | 0.5 | | Pass |
| Cypermethrin | ND | ND | 1.0 | 0.1 | | Pass | Pyridaben | ND | ND | 0.2 | 0.1 | | Pass |
| Daminozide | ND | ND | 1.0 | 0.5 | | Pass | Spinosad | ND | ND | 0.2 | 0.1 | | Pass |
| Diazinon | ND | ND | 0.2 | 0.1 | | Pass | Spiromesifen | ND | ND | 0.2 | 0.1 | | Pass |
| Dichlorvos (DDVP) | ND | ND | 1.0 | 0.5 | | Pass | Spirotetramat | ND | ND | 0.2 | 0.1 | | Pass |
| Dimethoate | ND | ND | 0.2 | 0.1 | | Pass | Spiroxamine | ND | ND | 0.4 | 0.1 | | Pass |
| Ethoprophos | ND | ND | 0.2 | 0.1 | | Pass | Tebuconazole | ND | ND | 0.4 | 0.1 | | Pass |
| Etofenprox | ND | ND | 0.4 | 0.1 | | Pass | Thiacloprid | ND | ND | 0.2 | 0.1 | | Pass |
| Etoxazole | ND | ND | 0.2 | 0.1 | | Pass | Thiamethoxam | ND | ND | 0.2 | 0.1 | | Pass |
| Fenoxycarb | ND | ND | 0.2 | 0.1 | | Pass | Trifloxystrobin | ND | ND | 0.2 | 0.1 | | Pass |
| Fenpyroximate | ND | ND | 0.4 | 0.1 | | Pass | | | | | | | |
| Fipronil | ND | ND | 0.4 | 0.1 | | Pass | | | | | | | |
| Flonicamid | ND | ND | 1.0 | 0.1 | | Pass | | | | | | | |
| Fludioxonil | ND | ND | 0.4 | 0.1 | | Pass | | | | | | | |
| Hexythiazox | ND | ND | 1.0 | 0.1 | | Pass | | | | | | | |
| Imazalil | ND | ND | 0.2 | 0.1 | | Pass | | | | | | | |
| Imidacloprid | ND | ND | 0.4 | 0.1 | | Pass | | | | | | | |
| Kresoxim-methyl | ND | ND | 0.4 | 0.1 | | Pass | | | | | | | |
| Malathion | ND | ND | 0.2 | 0.1 | | Pass | | | | | | | |

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Metric Batch ID:
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Metric Sample ID:
 1A4010300016315000022509

Harvest/Process Date: 2/15/2020
Report ID: LS-200225-12
Sample Plan ID: SP-200218-1-D
Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Pesticides Quality Control Data

Pesticides QC Analysis Date: 2/20/2020
 Pesticides QC Batch ID: PST_022020A

Method: EN 15662
 Unit: µg/g (ppm)

| Analyte | Blank | LOQ | LCS | LCS Spike | LCS Rec (%) | Limits (%) | Notes | Analyte | Blank | LOQ | LCS | LCS Spike | LCS Rec (%) | Limits (%) | Notes |
|---------------------|-------|-----|-------|-----------|-------------|------------|-------|--------------------|-------|-----|-------|-----------|-------------|------------|-------|
| Abamectin | ND | 0.1 | 1.13 | 1.00 | 113 | 50 - 150 | | Metalaxyl | ND | 0.1 | 1.04 | 1.00 | 104 | 50 - 150 | |
| Acephate | ND | 0.1 | 1.03 | 1.00 | 103 | 50 - 150 | | Methiocarb | ND | 0.1 | 1.12 | 1.00 | 112 | 50 - 150 | |
| Acequinocyl | ND | 1.5 | 0.921 | 1.00 | 92.1 | 50 - 150 | | Methomyl | ND | 0.1 | 1.06 | 1.00 | 106 | 50 - 150 | |
| Acetamiprid | ND | 0.1 | 1.15 | 1.00 | 115 | 50 - 150 | | Methyl Parathion | ND | 0.2 | 0.322 | 1.00 | 32.2 | 30 - 150 | |
| Aldicarb | ND | 0.1 | 0.844 | 1.00 | 84.4 | 50 - 150 | | MGK-264 | ND | 0.2 | 0.636 | 0.600 | 106 | 50 - 150 | |
| Azoxystrobin | ND | 0.1 | 1.25 | 1.00 | 125 | 50 - 150 | | Myclobutanil | ND | 0.1 | 1.25 | 1.00 | 125 | 50 - 150 | |
| Bifenazate | ND | 0.1 | 4.73 | 1.00 | 473 | 50 - 150 | HB | Naled | ND | 0.2 | 1.44 | 1.00 | 144 | 50 - 150 | |
| Bifenthrin | ND | 0.1 | 1.01 | 1.00 | 101 | 50 - 150 | | Oxamyl | ND | 0.1 | 1.01 | 1.00 | 101 | 50 - 150 | |
| Boscalid | ND | 0.1 | 0.915 | 1.00 | 91.5 | 50 - 150 | | Paclobutrazol | ND | 0.1 | 0.885 | 1.00 | 88.5 | 50 - 150 | |
| Carbaryl | ND | 0.1 | 1.04 | 1.00 | 104 | 50 - 150 | | Permethrins | ND | 0.1 | 1.32 | 1.00 | 132 | 50 - 150 | |
| Carbofuran | ND | 0.1 | 1.22 | 1.00 | 122 | 50 - 150 | | Phosmet | ND | 0.1 | 0.967 | 1.00 | 96.7 | 50 - 150 | |
| Chlorantraniliprole | ND | 0.1 | 1.20 | 1.00 | 120 | 50 - 150 | | Piperonyl Butoxide | ND | 0.1 | 1.04 | 1.00 | 104 | 50 - 150 | |
| Chlorfenapyr | ND | 0.1 | 1.06 | 1.00 | 106 | 50 - 150 | | Prallethrin | ND | 0.1 | 1.13 | 1.00 | 113 | 50 - 150 | |
| Chlorpyrifos | ND | 0.1 | 0.913 | 1.00 | 91.3 | 50 - 150 | | Propiconazole | ND | 0.1 | 1.13 | 1.00 | 113 | 50 - 150 | |
| Clofentezine | ND | 0.1 | 0.980 | 1.00 | 98.0 | 50 - 150 | | Propoxur | ND | 0.1 | 0.941 | 1.00 | 94.1 | 50 - 150 | |
| Cyfluthrin | ND | 0.5 | 1.26 | 1.00 | 126 | 50 - 150 | | Pyrethrins | ND | 0.5 | 0.536 | 1.00 | 53.6 | 50 - 150 | |
| Cypermethrin | ND | 0.1 | 1.08 | 1.00 | 108 | 50 - 150 | | Pyridaben | ND | 0.1 | 1.30 | 1.00 | 130 | 50 - 150 | |
| Daminozide | ND | 0.5 | 5.69 | 1.00 | 569 | 10 - 150 | HB | Spinosad | ND | 0.1 | 1.24 | 1.00 | 124 | 50 - 150 | |
| Diazinon | ND | 0.1 | 1.03 | 1.00 | 103 | 50 - 150 | | Spiromesifen | ND | 0.1 | 1.22 | 1.00 | 122 | 50 - 150 | |
| Dichlorvos (DDVP) | ND | 0.5 | 0.751 | 1.00 | 75.1 | 50 - 150 | | Spirotetramat | ND | 0.1 | 1.24 | 1.00 | 124 | 50 - 150 | |
| Dimethoate | ND | 0.1 | 0.983 | 1.00 | 98.3 | 50 - 150 | | Spiroxamine | ND | 0.1 | 1.12 | 1.00 | 112 | 50 - 150 | |
| Ethofenphos | ND | 0.1 | 1.14 | 1.00 | 114 | 50 - 150 | | Tebuconazole | ND | 0.1 | 1.13 | 1.00 | 113 | 50 - 150 | |
| Etofenprox | ND | 0.1 | 1.04 | 1.00 | 104 | 50 - 150 | | Thiacloprid | ND | 0.1 | 0.960 | 1.00 | 96.0 | 50 - 150 | |
| Etoxazole | ND | 0.1 | 1.15 | 1.00 | 115 | 50 - 150 | | Thiamethoxam | ND | 0.1 | 1.01 | 1.00 | 101 | 50 - 150 | |
| Fenoxycarb | ND | 0.1 | 1.31 | 1.00 | 131 | 50 - 150 | | Trifloxystrobin | ND | 0.1 | 1.19 | 1.00 | 119 | 50 - 150 | |
| Fenpyroximate | ND | 0.1 | 1.17 | 1.00 | 117 | 50 - 150 | | | | | | | | | |
| Fipronil | ND | 0.1 | 1.13 | 1.00 | 113 | 50 - 150 | | | | | | | | | |
| Flonicamid | ND | 0.1 | 1.13 | 1.00 | 113 | 50 - 150 | | | | | | | | | |
| Fludioxonil | ND | 0.1 | 1.03 | 1.00 | 103 | 50 - 150 | | | | | | | | | |
| Hexythiazox | ND | 0.1 | 0.908 | 1.00 | 90.8 | 50 - 150 | | | | | | | | | |
| Imazalil | ND | 0.1 | 1.32 | 1.00 | 132 | 50 - 150 | | | | | | | | | |
| Imidacloprid | ND | 0.1 | 0.959 | 1.00 | 95.9 | 50 - 150 | | | | | | | | | |
| Kresoxim-methyl | ND | 0.1 | 1.17 | 1.00 | 117 | 50 - 150 | | | | | | | | | |
| Malathion | ND | 0.1 | 1.06 | 1.00 | 106 | 50 - 150 | | | | | | | | | |

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Harvest/Process Date: 2/15/2020
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Sample Plan ID: SP-200218-1-D
Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Residual Solvents Sample Data

Solvents Analysis Date: 2/21/2020
 Solvents Batch ID: RES_022120A

Method: EPA 5021A
 Unit: µg/g (ppm)

Pass 

| Analyte | MJG-SHW-MJW | XRS-FHX-XBN | RPD (%) | Limits | LOQ | Notes | Status |
|--------------------------|-------------|-------------|---------|--------|-------|-------|--------|
| 1,4-Dioxane | ND | ND | 0.00 | 380.0 | 50.0 | | Pass |
| 2-Butanol | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| 2-Ethoxyethanol | ND | ND | 0.00 | 160.0 | 50.0 | | Pass |
| Acetone | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Acetonitrile | ND | ND | 0.00 | 410.0 | 50.0 | | Pass |
| Benzene | ND | ND | 0.00 | 2.0 | 2.0 | | Pass |
| Butanes | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Cumene | ND | ND | 0.00 | 70.0 | 50.0 | | Pass |
| Cyclohexane | ND | ND | 0.00 | 3880.0 | 50.0 | | Pass |
| Ethyl Acetate | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Ethyl Ether | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Ethylene Glycol | ND | ND | 0.00 | 620.0 | 250.0 | | Pass |
| Ethylene Oxide | ND | ND | 0.00 | 50.0 | 50.0 | | Pass |
| Heptane | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Hexanes | ND | ND | 0.00 | 290.0 | 50.0 | | Pass |
| Isopropanol (2-Propanol) | ND | ND | 0.00 | 5000.0 | 50.0 | | Pass |
| Isopropyl Acetate | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Methanol | ND | ND | 0.00 | 3000.0 | 250.0 | | Pass |
| Dichloromethane | ND | ND | 0.00 | 600.0 | 50.0 | | Pass |
| Pentanes | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Propane | ND | ND | 0.00 | 5000.0 | 250.0 | | Pass |
| Tetrahydrofuran | ND | ND | 0.00 | 720.0 | 50.0 | | Pass |
| Toluene | ND | ND | 0.00 | 890.0 | 50.0 | | Pass |
| Xylenes | ND | ND | 0.00 | 2170.0 | 50.0 | | Pass |

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Sample Procedure: 160721_LAB-SOP_SampleCollection-v007

Residual Solvents Quality Control Data

Solvents QC Analysis Date: 2/21/2020
 Solvents QC Batch ID: RES_022120A

Method: EPA 5021A
 Unit: µg/g (ppm)

| Analyte | Blank | LOQ | LCS | LCS Spike | LCS Rec (%) | Limits (%) | Notes |
|--------------------------|-------|-------|------|-----------|-------------|------------|-------|
| 1,4-Dioxane | ND | 50.0 | 1000 | 1000 | 100 | 70 - 130 | |
| 2-Butanol | ND | 250.0 | 1010 | 1000 | 101 | 70 - 130 | |
| 2-Ethoxyethanol | ND | 50.0 | 956 | 1000 | 95.6 | 70 - 130 | |
| Acetone | ND | 250.0 | 1000 | 1000 | 100 | 70 - 130 | |
| Acetonitrile | ND | 50.0 | 1000 | 1000 | 100 | 70 - 130 | |
| Benzene | ND | 2.0 | 16.8 | 20.0 | 84.0 | 70 - 130 | |
| Butanes | ND | 250.0 | 1990 | 2000 | 99.6 | 70 - 130 | |
| Cumene | ND | 50.0 | 989 | 1000 | 98.9 | 70 - 130 | |
| Cyclohexane | ND | 50.0 | 994 | 1000 | 99.4 | 70 - 130 | |
| Ethyl Acetate | ND | 250.0 | 995 | 1000 | 99.5 | 70 - 130 | |
| Ethyl Ether | ND | 250.0 | 976 | 1000 | 97.6 | 70 - 130 | |
| Ethylene Glycol | ND | 250.0 | 913 | 1000 | 91.3 | 70 - 130 | |
| Ethylene Oxide | ND | 50.0 | 975 | 1000 | 97.5 | 70 - 130 | |
| Heptane | ND | 250.0 | 984 | 1000 | 98.4 | 70 - 130 | |
| Hexanes | ND | 50.0 | 4950 | 5000 | 99.1 | 70 - 130 | |
| Isopropanol (2-Propanol) | ND | 50.0 | 1000 | 1000 | 100 | 70 - 130 | |
| Isopropyl Acetate | ND | 250.0 | 1020 | 1000 | 102 | 70 - 130 | |
| Methanol | ND | 250.0 | 990 | 1000 | 99.0 | 70 - 130 | |
| Dichloromethane | ND | 50.0 | 993 | 1000 | 99.3 | 70 - 130 | |
| Pentanes | ND | 250.0 | 2980 | 3000 | 99.5 | 70 - 130 | |
| Propane | ND | 250.0 | 1000 | 1000 | 100 | 70 - 130 | |
| Tetrahydrofuran | ND | 50.0 | 1000 | 1000 | 100 | 70 - 130 | |
| Toluene | ND | 50.0 | 999 | 1000 | 99.9 | 70 - 130 | |
| Xylenes | ND | 50.0 | 4010 | 4000 | 100 | 70 - 130 | |

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Qualifier Flag Descriptions

| | |
|-----|--|
| J | Reported result is an estimate - the value is less than the minimum calibration level but greater than the estimated detection limit (EDL) |
| U | The analyte was not detected in the sample at the estimated detection limit (EDL) |
| E | Exceeds calibration range |
| D | Dilution data - result was obtained from the analysis of a dilution |
| B | Analyte found in sample and associated blank |
| C | Co-eluting compound |
| R | Relative Percent Difference (RPD) outside control limits |
| NR | Analyte not reported because of problems in sample preparation or analysis |
| ND | Non-Detect |
| X | Results from reinjection/repeat/re-column data |
| EMC | Estimated maximum possible concentration - indicates that a peak is detected but did not meet the method required criteria |
| M | Manual integration |
| PS | Peaks split |
| HB | Control acceptance criteria are exceeded high and the associated sample is below the detection limit |
| LB | Control acceptance criteria are exceeded low and the associated sample exceeds the regulatory limit |
| ME | Marginal Exceedance |
| LR | Low Recovery Analyte |
| LOQ | Limit of Quantitation |