

Energy Laboratories Inc

ANALYTICAL RUN Summary

13-Jan-22

Run ID GCFID-HP5-B_220111A

| | |
|------------------------|------------------------------|
| Run Start Date: | 1/11/2022 |
| Analyst: | Ann Nebel |
| Ical: | |
| Column ID: | |
| Comments: | ICAL-SW8015C_DRO220111JA.CAL |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|------------|------------------------------------|------------|-----------|-------------|------------|----------|-----------------|
| DRO211012B | #2 Diesel in Acetone 150,000 ug/mL | | | | | ICV | 11/5/2023 |
| DRO211101A | OTP-4000 ug/mL DCM | | | | | OTP-CAL | 9/30/2024 |
| DRO211214C | Diesel Fuel #2 50,000 ug/mL in DCM | | | | | CCV-CAL | 4/30/2023 |
| DRO220102D | ALASKA MARKER-200ug/mL | | | | | MARKER | 5/31/2022 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | | |
|--------------------------------|--------------|--------------|--------------|------------|------------------|-------------|--------------|---------------|---------------|------------|------------|------------|-------------|------------|-------------|-------------|----------|
| 14976981 | CCV_0111HP50 | HC-8015-DRO- | CCV | | 1/11/2022 8:59:2 | 1 | R373149 | | 0 | 0 | | | | | | | |
| Analyte | | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | | A | mg/L | | 3.205893 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 21% | 80 | 120 | 0% | S |
| o-Terphenyl | | S | mg/L | | 0.1968894 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | | |
|----------------|--------------|--------------|--------------|------------|------------------|-------------|--------------|---------------|---------------|------------|------------|------------|-------------|------------|-------------|-------------|----------|
| 14976982 | CCV_0111HP50 | HC-8015-DRO- | CAL1 | | 1/11/2022 10:25: | 1 | R373149 | | 0 | 0 | | | | | | | |
| Analyte | | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| o-Terphenyl | | S | mg/L | | 0.00201677 | | 0.002 | 0 | 0 | 0.000429 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | | |
|----------------|--------------|--------------|--------------|------------|------------------|-------------|--------------|---------------|---------------|------------|------------|------------|-------------|------------|-------------|-------------|----------|
| 14976983 | CCV_0111HP50 | HC-8015-DRO- | CAL2 | | 1/11/2022 11:08: | 1 | R373149 | | 0 | 0 | | | | | | | |
| Analyte | | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| o-Terphenyl | | S | mg/L | | 0.0489019 | | 0.05 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|--------------------------------|--------------|--------------|------------|-----------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14976984 | CCV_0111HP50 | HC-8015-DRO- | CAL3 | | 1/11/2022 11:51: | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| o-Terphenyl | S | mg/L | | 0.2047389 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 102% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976985 | CCV_0111HP50 | HC-8015-DRO- | CAL4 | | 1/11/2022 12:34: | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| o-Terphenyl | S | mg/L | | 0.4884362 | | 0.5 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976986 | CCV_0111HP50 | HC-8015-DRO- | CAL5 | | 1/11/2022 1:17:0 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| o-Terphenyl | S | mg/L | | 1.013008 | | 1 | 0 | 0 | 0.000429 | 0.002 | 0 | 101% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976987 | CCV_0111HP50 | HC-8015-DRO- | CAL1 | | 1/11/2022 1:59:5 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | A | mg/L | | 0.1635249 | | 0.15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976989 | CCV_0111HP51 | HC-8015-DRO- | CAL2 | | 1/11/2022 2:42:3 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | A | mg/L | | 3.698293 | | 3.75 | 0 | 0 | 0.0749 | 0.3 | 50 | 99% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976990 | CCV_0111HP51 | HC-8015-DRO- | CAL3 | | 1/11/2022 3:25:2 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | A | mg/L | | 14.75864 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 98% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|--------------------------------|--------------|--------------|------------|----------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14976991 | CCV_0111HP51 | HC-8015-DRO- | CAL4 | | 1/11/2022 4:08:0 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | A | mg/L | | 36.29137 | | 37.5 | 0 | 0 | 0.0749 | 0.3 | 50 | 97% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976992 | CCV_0111HP51 | HC-8015-DRO- | CAL5 | | 1/11/2022 4:51:0 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | A | mg/L | | 48.59718 | | 50 | 0 | 0 | 0.0749 | 0.3 | 50 | 97% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14976993 | CCV_0111HP51 | HC-8015-DRO- | ICV | | 1/11/2022 5:34:2 | 1 | R373149 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Total Extractable Hydrocarbons | A | mg/L | | 14.05379 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 94% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|----------------|--|--|--|--------|------------|----------|----|--------|
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.02r | CCV_0111HP502r, DRO ;0111HP5 , DRO220102D | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.03r | DCM-Baseline Check-V03 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.04r | CCV_0111HP504r, CAL1 ;0111HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14647) | G:\Org\HP5\Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.05r | CCV_0111HP505r, CAL2 ;0111HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14647) | G:\Org\HP5\Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.06r | CCV_0111HP506r, CAL3 ;0111HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14647) | G:\Org\HP5\Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.07r | CCV_0111HP507r, CAL4 ;0111HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14647) | G:\Org\HP5\Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.08r | CCV_0111HP508r, CAL5 ;0111HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14647) | G:\Org\HP5\Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.09r | CCV_0111HP509r, CAL1 ;0111HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(14647), then 100 uL of that + 100 uL of DCM (14647) | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.10r | CCV_0111HP510r, CAL2 ;0111HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14647) | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.11r | CCV_0111HP511r, CAL3 ;0111HP5 , 15000 ug per mL Diesel (300 uL of DRO211214C + 700 uL DCM(14647) | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.12r | CCV_0111HP512r, CAL4 ;0111HP5 , 37500ug per mL Diesel (750 uL of DRO211214C + 250 uL DCM(14647) | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.13r | CCV_0111HP513r, CAL5 ;0111HP5 , 50000 ug per mL Diesel (200 uL of DRO211214C) | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.14r | CCV_0111HP514r, Second Source ;0111HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14647) | G:\Org\HP5\Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL

Version: 12

Creator: AMN 01/13/2022

Description: 8015C-DRO. New ICal Per 0111HP5 (2022)-2 uL Inj.; COD added using OTP RFs

Reason for change:

External standard calibration

Standard injection volume: 1

Standard sample weight: 1

Area reject threshold: 500

Reference peak area reject threshold: 500

Amount units: nanograms

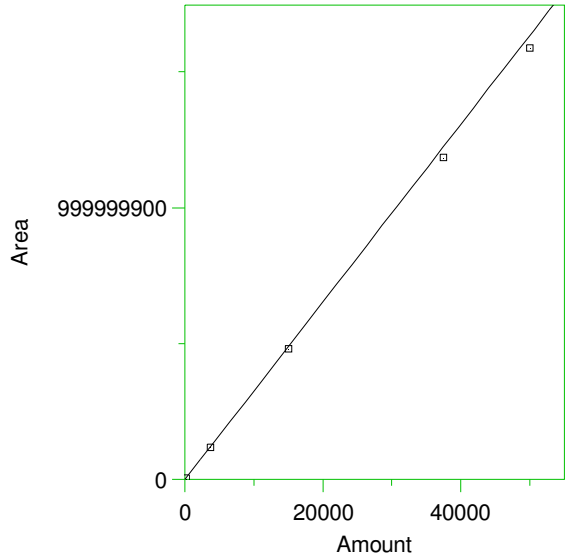
No default component

Method of calculating data point averages: Equal weight for all updates

No calibration update report

All levels are normal data points.

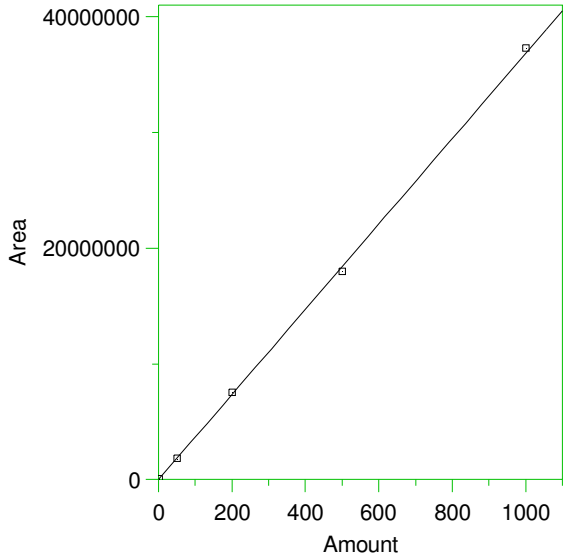
1 DRO Range Start



Expected retention time: 6.68 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 Y = 32675.36 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9980255
 Average error: 3.607%
 Average CF: 32675.36
 RSD: 5.100%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|-------|--------|--------------|------------|----------|--------|-----------------------|
| 1 | 150 | 5343235 | 35621.57 | 9.017 | Manual | 1/13/2022 12:28:36 PM |
| 2 | 3750 | 1.20843E+08 | 32224.8 | -1.379 | Manual | 1/13/2022 12:29:11 PM |
| 3 | 15000 | 4.82244E+08 | 32149.6 | -1.609 | Manual | 1/13/2022 12:29:24 PM |
| 4 | 37500 | 1.185834E+09 | 31622.24 | -3.223 | Manual | 1/13/2022 12:29:37 PM |
| 5 | 50000 | 1.58793E+09 | 31758.6 | -2.806 | Manual | 1/13/2022 12:28:57 PM |

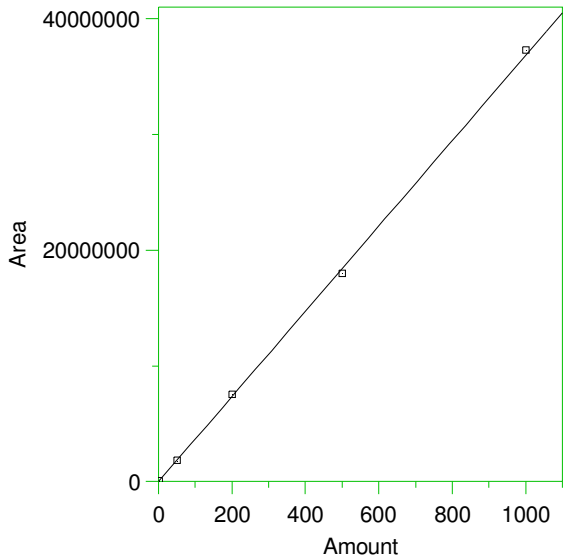
2 *o-Terphenyl



Expected retention time: 12.35 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 Y = 36857.86 X + 0
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9995278
 Average error: 1.804%
 Average CF: 36857.86
 RSD: 2.132%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|-------|--------|--------------|------------|----------|---|-----------------------|
| 1 | 2 | 74333.97 | 37166.98 | 0.839 | G:\Org\HP5\DAT\HP5011122_b\0111HP5.0004.BND | 1/13/2022 12:27:15 PM |
| 2 | 50 | 1802420 | 36048.4 | -2.196 | G:\Org\HP5\DAT\HP5011122_b\0111HP5.0005.BND | 1/13/2022 12:27:23 PM |
| 3 | 200 | 7546240 | 37731.2 | 2.369 | G:\Org\HP5\DAT\HP5011122_b\0111HP5.0006.BND | 1/13/2022 12:27:28 PM |
| 4 | 500 | 1.800271E+07 | 36005.42 | -2.313 | G:\Org\HP5\DAT\HP5011122_b\0111HP5.0007.BND | 1/13/2022 12:27:34 PM |
| 5 | 1000 | 3.733731E+07 | 37337.31 | 1.301 | G:\Org\HP5\DAT\HP5011122_b\0111HP5.0008.BND | 1/13/2022 12:27:40 PM |

3 *1-Chlorooctadecane



Expected retention time: 13.16 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 $Y = 36857.86 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9995278
 Average error: 1.804%
 Average CF: 36857.86
 RSD: 2.132%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|-------|--------|--------------|------------|----------|--------|-----------------------|
| 1 | 2 | 74333.97 | 37166.98 | 0.839 | Manual | 1/13/2022 12:27:45 PM |
| 2 | 50 | 1802420 | 36048.4 | -2.196 | Manual | 1/13/2022 12:27:47 PM |
| 3 | 200 | 7546240 | 37731.2 | 2.369 | Manual | 1/13/2022 12:27:49 PM |
| 4 | 500 | 1.800271E+07 | 36005.42 | -2.313 | Manual | 1/13/2022 12:27:51 PM |
| 5 | 1000 | 3.733731E+07 | 37337.31 | 1.301 | Manual | 1/13/2022 12:27:53 PM |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|----------------|--|---|--|--------|------------|----------|----|--------|--|
| | | DCM-Baseline Check-V01 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | | CCV_0111HP502r, DRO_0111HP5 , DRO220102D | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | | DCM-Baseline Check-V03 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.04r | CCV_0111HP504r, CAL1 ;0111HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14647) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.05r | CCV_0111HP505r, CAL2 ;0111HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL of DCM(14647) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.06r | CCV_0111HP506r, CAL3 ;0111HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14647) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.07r | CCV_0111HP507r, CAL4 ;0111HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14647) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.08r | CCV_0111HP508r, CAL5 ;0111HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14647) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.09r | CCV_0111HP509r, CAL1 ;0111HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(14647), then 100 uL of that + 100 uL of DCM (14647)) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.10r | CCV_0111HP510r, CAL2 ;0111HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14647) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.11r | CCV_0111HP511r, CAL3 ;0111HP5 , 15000 ug per mL Diesel (300 uL of DRO211214C + 700 uL DCM(14647) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.12r | CCV_0111HP512r, CAL4 ;0111HP5 , 37500ug per mL Diesel (750 uL of DRO211214C + 250 uL DCM(14647) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.13r | CCV_0111HP513r, CAL5 ;0111HP5 , 50000 ug per mL Diesel (200 uL of DRO211214C) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.14r | CCV_0111HP514r, Second Source ;0111HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14647) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.02.11 10:29:19 -07:00

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|----------------|-----------|--|--|--------|------------|----------|----|--------|--|
| | | DCM-Baseline Check-V01 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | | CCV_0111HP502r, DRO :0111HP5 , DRO220102D | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | | DCM-Baseline Check-V03 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integration |
| | | CCV_0111HP504r, CAL1 :0111HP5 , 2 ug per mL OTP (10 uL of Cal3 + 990 uL DCM(14647)) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | | CCV_0111HP505r, CAL2 :0111HP5 , 50 ug per mL OTP (100 uL Cal4 + 900 uL DCM(14647)) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | | CCV_0111HP506r, CAL3 :0111HP5 , 200 ug per mL OTP (100uL of Cal5 + 400 uL DCM(14647)) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | | CCV_0111HP507r, CAL4 :0111HP5 , 500 ug per mL OTP (250uL of Cal5 + 250 uL DCM(14647)) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | | CCV_0111HP508r, CAL5 :0111HP5 , 1000 ug per mL OTP (250 uL 4000 ug/mL OTP DRO211101A + 750 DCM(14647)) | G:\Org\HP5-Methods\DS_8015-JA-L#.met | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 12.01 minutes. |
| | | CCV_0111HP509r, CAL1 :0111HP5 , 150 ug per mL Diesel (20 uL of Cal3 + 980 uL DCM(14647)), then 100 uL of that + 100 uL of DCM (14647)) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | | CCV_0111HP510r, CAL2 :0111HP5 , 3750 ug per mL Diesel (100 uL Cal4 + 900 uL of DCM(14647)) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | | CCV_0111HP511r, CAL3 :0111HP5 , 15000 ug per mL Diesel (300 uL of DRO211214C + 700 uL DCM(14647)) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | | CCV_0111HP512r, CAL4 :0111HP5 , 37500ug per mL Diesel (750 uL of DRO211214C + 250 uL DCM(14647)) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | | CCV_0111HP513r, CAL5 :0111HP5 , 50000 ug per mL Diesel (200 uL of DRO211214C) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |
| | | CCV_0111HP514r, Second Source :0111HP5 , 15000 ug per mL (100uL of DRO211012B + 900uL DCM(14647)) | G:\Org\HP5-Methods\DC_8015-JA-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline on All Valley on at 16.36 minutes. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.02.11 10:29:19 -07:00

Energy Laboratories Inc

ANALYTICAL RUN Summary

14-Jan-22

Run ID GCFID-HP5-B_220111C

| |
|---|
| Run Start Date: 1/11/2022 |
| Analyst: Ann Nebel |
| Ical: |
| Column ID: |
| Comments: ICAL- SW8015C_ORO220111BA.CAL with Triacontane |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|------------|---|------------|-----------|-------------|------------|----------|-----------------|
| DRO210902A | 50,000 ug/mL Oil Std for RRO-In DCM | | | | | ICV | 9/1/2026 |
| DRO211006A | Triacontane SURR 2000 ug/mL | | | | | CAL-SURR | 4/6/2026 |
| DRO211118A | 50,000 ug/mL Oil Std For AK103 RRO-In DCM | | | | | CAL-ORO | 10/31/2028 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|--------------|------------------|--------------|---------------|---------------|------------|------------|------------|-------------|------------|-------------|-------------|----------|
| 14977288 | CCV_0111HP52 | HC-8015-DRO- | CAL1 | | 1/12/2022 3:39:1 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| n-Triacontane | S | mg/L | | 0.00190245 | | 0.002 | 0 | 0 | 0.000336 | 0.002 | 0 | 95% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|--------------|------------------|--------------|---------------|---------------|------------|------------|------------|-------------|------------|-------------|-------------|----------|
| 14977289 | CCV_0111HP52 | HC-8015-DRO- | CAL2 | | 1/12/2022 4:22:1 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| n-Triacontane | S | mg/L | | 0.04984459 | | 0.05 | 0 | 0 | 0.000336 | 0.002 | 0 | 100% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|--------------|------------------|--------------|---------------|---------------|------------|------------|------------|-------------|------------|-------------|-------------|----------|
| 14977290 | CCV_0111HP53 | HC-8015-DRO- | CAL3 | | 1/12/2022 5:05:2 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| n-Triacontane | S | mg/L | | 0.2024053 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 14977291 | CCV_0111HP53 | HC-8015-DRO- | CAL4 | | 1/12/2022 5:48:3 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| n-Triacontane | S | mg/L | | 0.5035697 | | 0.5 | 0 | 0 | 0.000336 | 0.002 | 0 | 101% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14977292 | CCV_0111HP55 | HC-8015-DRO- | CAL5 | | 1/12/2022 8:49:5 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| n-Triacontane | S | mg/L | | 1.032718 | | 1 | 0 | 0 | 0.000336 | 0.002 | 0 | 103% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14977293 | CCV_0111HP55 | HC-8015-DRO- | CAL1 | | 1/13/2022 3:06:1 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 0.15954587 | | 0.15 | 0 | 0 | 0.0879 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14977294 | CCV_0111HP55 | HC-8015-DRO- | CAL2 | | 1/13/2022 4:31:3 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 1.03294141 | | 1 | 0 | 0 | 0.0879 | 0.3 | 0 | 103% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14977295 | CCV_0111HP55 | HC-8015-DRO- | CAL3 | | 1/13/2022 5:57:4 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 4.9326875 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 99% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 14977296 | CCV_0111HP56 | HC-8015-DRO- | CAL4 | | 1/13/2022 7:24:1 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 14.328667 | | 15 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14977297 | CCV_0111HP56 | HC-8015-DRO- | CAL5 | | 1/13/2022 8:50:3 | 1 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 28.7914395 | | 30 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|------------|------------------|-------|----------|-----------|--------|--------|--------|------|-----|------|------|---|
| 14977298 | CCV_0111HP56 | HC-8015-DRO- | ICV | | 1/14/2022 8:18:1 | 0 | R373160 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 5.07699902 | | 5 | 0 | 0 | 0 | 0.3 | 0 | 102% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|----------------|---------------|---|--|--------|------------|----------|----|--------|
| | b\0111HP5.25f | DCM-Baseline Check-V25 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.26f | Marker_0111HP526r, DRO :0111HP5 , DRO220111A | G:\Org\HP5-Methods\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.27f | DCM-Baseline Check-V27 | G:\Org\HP5-Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.28f | CCV_0111HP528r, CAL1 :0111HP5 , 2 ug per mL Triacotane (10 uL of Cal3 + 990 uL DCM(14647) | G:\Org\HP5-Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.29f | CCV_0111HP529r, CAL2 :0111HP5 , 50 ug per mL Triacotane (100 uL Cal4 + 900 uL of DCM(14647) | G:\Org\HP5-Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.30f | CCV_0111HP530r, CAL3 :0111HP5 , 200 ug per mL Triacotane (100uL of Cal5 + 400 uL DCM(14647) | G:\Org\HP5-Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.31f | CCV_0111HP531r, CAL4 :0111HP5 , 500 ug per mL Triacotane (250uL of Cal5 + 250 uL DCM(14647) | G:\Org\HP5-Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.32f | DCM-Baseline Check-V32 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.50f | CCV_0111HP550r, CAL5 :0111HP5 , 1000 ug per mL Triacotane (DRO211006A) | G:\Org\HP5-Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.51f | DCM-Baseline Check-V51 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.52f | DCM-Baseline Check-V52 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.53f | Marker_0111HP553r, DRO :0111HP5 , DRO220111A | G:\Org\HP5-Methods\CSC210212.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.54f | DCM-Baseline Check-V54 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.55f | CCV_0111HP555r, CAL1 :0111HP5 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM(14647) | G:\Org\HP5-Methods\DC_ORO-55-BA-L%.xls | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.56f | DCM-Baseline Check-V56 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.57f | CCV_0111HP557r, CAL2 :0111HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14647) | G:\Org\HP5-Methods\DC_ORO-57-BA-L%.xls | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.58f | DCM-Baseline Check-V58 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.59f | CCV_0111HP559r, CAL3 :0111HP5 , 5000 ug per mL Oil (100 uL of DRO211118A + 900 uL DCM(14647) | G:\Org\HP5-Methods\DC_ORO-59-BA-L%.xls | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.60f | DCM-Baseline Check-V60 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.61f | CCV_0111HP561r, CAL4 :0111HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14647) | G:\Org\HP5-Methods\DC_ORO-61-BA-L%.xls | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.62f | DCM-Baseline Check-V62 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.63f | CCV_0111HP563r, CAL5 :0111HP5 , 30000 ug per mL Oil (600 uL of DRO211118A + 400 uL of DCM) | G:\Org\HP5-Methods\DC_ORO-BA-L%.xls | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.64f | DCM-Baseline Check-V64 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.65f | DCM-Baseline Check-V65 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.66f | DCM-Baseline Check-V66 | G:\Org\HP5-Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.68f | DCM-Baseline Check-V68 | G:\Org\HP5-Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | b\0111HP5.69f | CCV_0111HP567r, Second Source :0111HP5 , 5000 ug per mL (100uL of DRO210902A + 900uL DCM(14647) | G:\Org\HP5-Methods\DC_ORO-59-BA-L%.xls | 1 | 1 | 1 | 1 | 0 |

File Name: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
Version: 11

Creator: AMN
Description: 8015C-Oil Range with Triacontane. New ICal Per 0111HP5,(2022)-2 uL Inj.;
Reason for change:

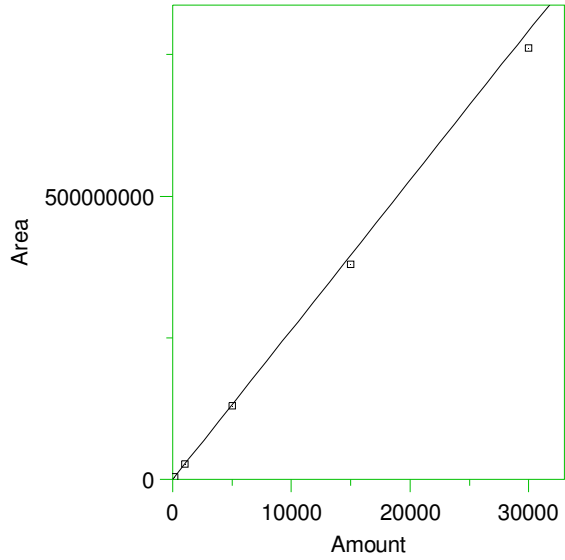
External standard calibration

Standard injection volume: 1
Standard sample weight: 1
Area reject threshold: 500
Reference peak area reject threshold: 500
Amount units: nanograms
No default component

Method of calculating data point averages: Equal weight for all updates
No calibration update report

All levels are normal data points.

1 *30-40 Motor Oil



Expected retention time: 6.4 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0

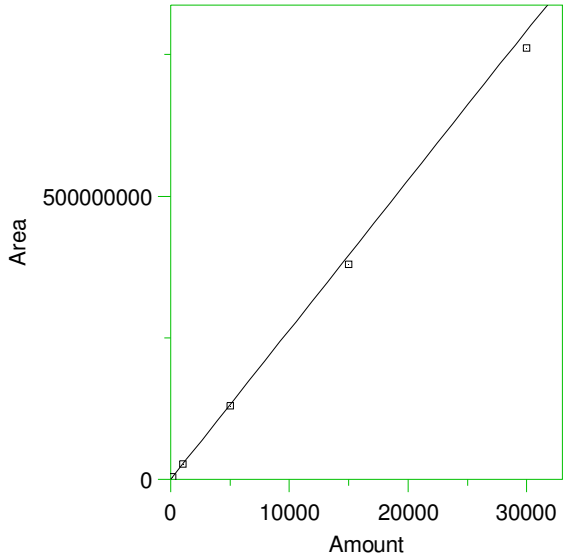
Single peak quantification by area

$Y = 26424.55 X + 0$

Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9969108
 Average error: 3.495%
 Average CF: 26424.55
 RSD: 4.293%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|-------|--------|--------------|------------|----------|--------|----------------------|
| 1 | 150 | 4177025 | 27846.83 | 5.382 | Manual | 1/14/2022 7:51:42 AM |
| 2 | 1000 | 2.73111E+07 | 27311.1 | 3.355 | Manual | 1/14/2022 8:05:40 AM |
| 3 | 5000 | 1.313247E+08 | 26264.94 | -0.604 | Manual | 1/14/2022 8:05:24 AM |
| 4 | 15000 | 3.796282E+08 | 25308.55 | -4.223 | Manual | 1/14/2022 8:05:07 AM |
| 5 | 30000 | 7.617404E+08 | 25391.35 | -3.910 | Manual | 1/14/2022 8:04:35 AM |

2 #C20



Expected retention time: 12.56 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0

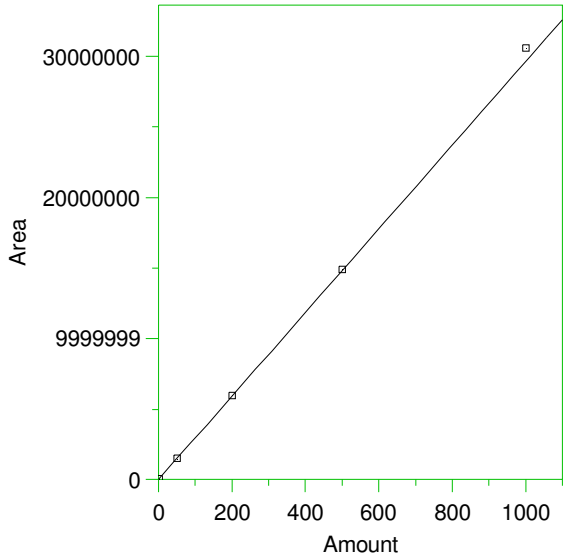
Single peak quantification by area

$Y = 26424.55 X + 0$

Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9969108
 Average error: 3.495%
 Average CF: 26424.55
 RSD: 4.293%

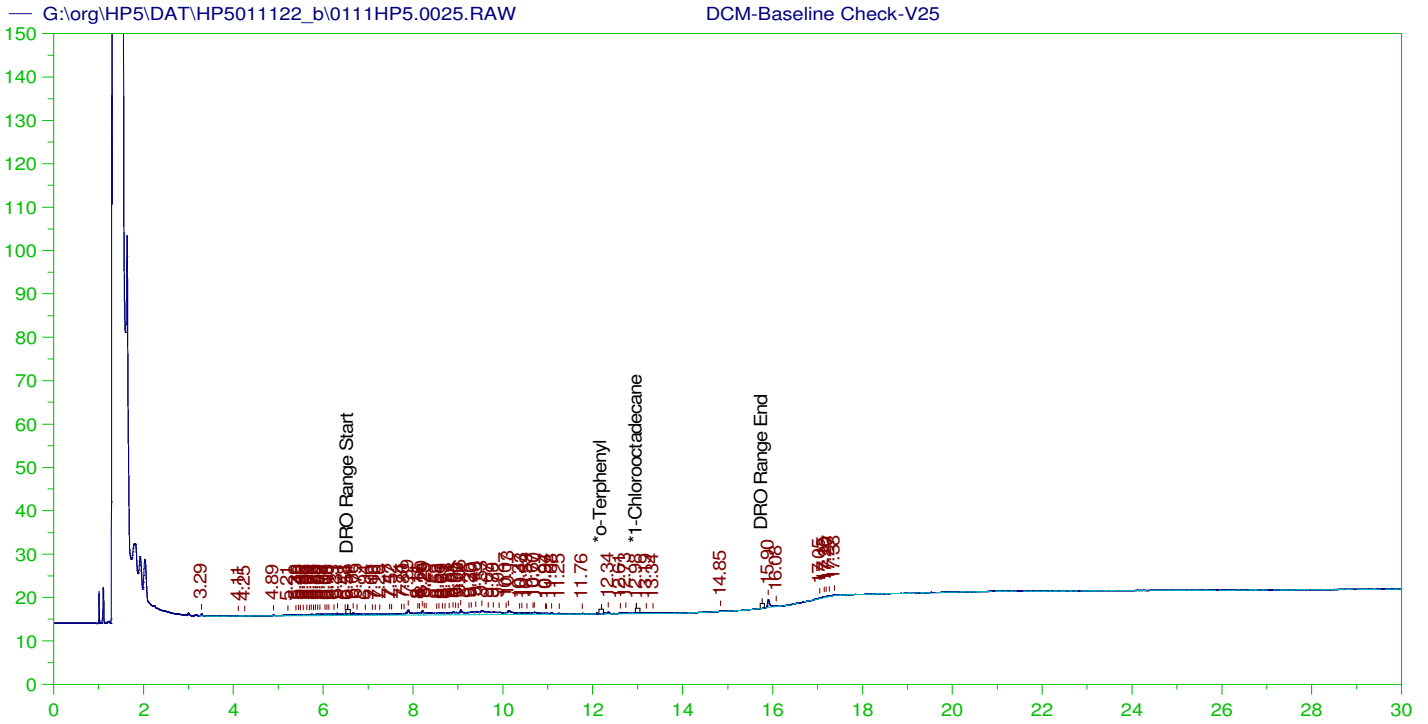
| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|-------|--------|--------------|------------|----------|--------|----------------------|
| 1 | 150 | 4177025 | 27846.83 | 5.382 | Manual | 1/14/2022 8:06:03 AM |
| 2 | 1000 | 2.73111E+07 | 27311.1 | 3.355 | Manual | 1/14/2022 8:06:05 AM |
| 3 | 5000 | 1.313247E+08 | 26264.94 | -0.604 | Manual | 1/14/2022 8:06:06 AM |
| 4 | 15000 | 3.796282E+08 | 25308.55 | -4.223 | Manual | 1/14/2022 8:06:11 AM |
| 5 | 30000 | 7.617404E+08 | 25391.35 | -3.910 | Manual | 1/14/2022 8:06:13 AM |

3 *#Triacontane



Expected retention time: 16.44 minutes
 Search window: 0.05 minutes
 No retention time reference component
 Group number: 0
 High alarm limit: 0
 Low alarm limit: 0
 Component constant: 0
 Single peak quantification by area
 $Y = 29636.1 X + 0$
 Average CF fit with equal weighting, forced to origin
 Coefficient of determination: 0.9984925
 Average error: 2.075%
 Average CF: 29636.1
 RSD: 3.023%

| Level | Amount | Response | Cal Factor | Error, % | Source | Date and time |
|-------|--------|--------------|------------|----------|--------|-----------------------|
| 1 | 2 | 56381.2 | 28190.6 | -4.878 | Manual | 1/13/2022 12:38:47 PM |
| 2 | 50 | 1477199 | 29543.98 | -0.311 | Manual | 1/13/2022 12:38:50 PM |
| 3 | 200 | 5998503 | 29992.52 | 1.203 | Manual | 1/13/2022 12:38:53 PM |
| 4 | 500 | 1.492384E+07 | 29847.68 | 0.714 | Manual | 1/13/2022 12:38:56 PM |
| 5 | 1000 | 3.060573E+07 | 30605.73 | 3.272 | Manual | 1/13/2022 12:39:03 PM |



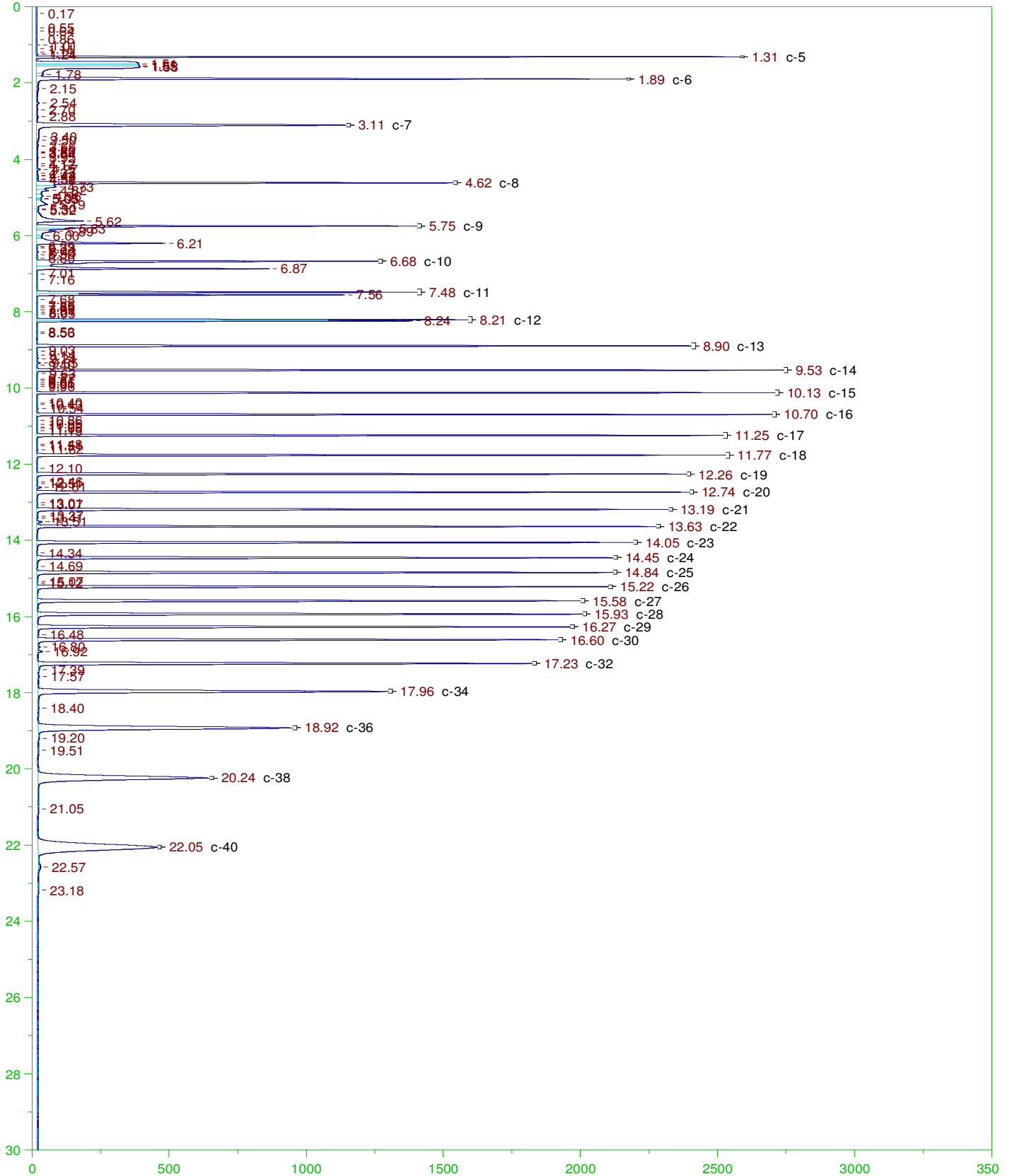
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

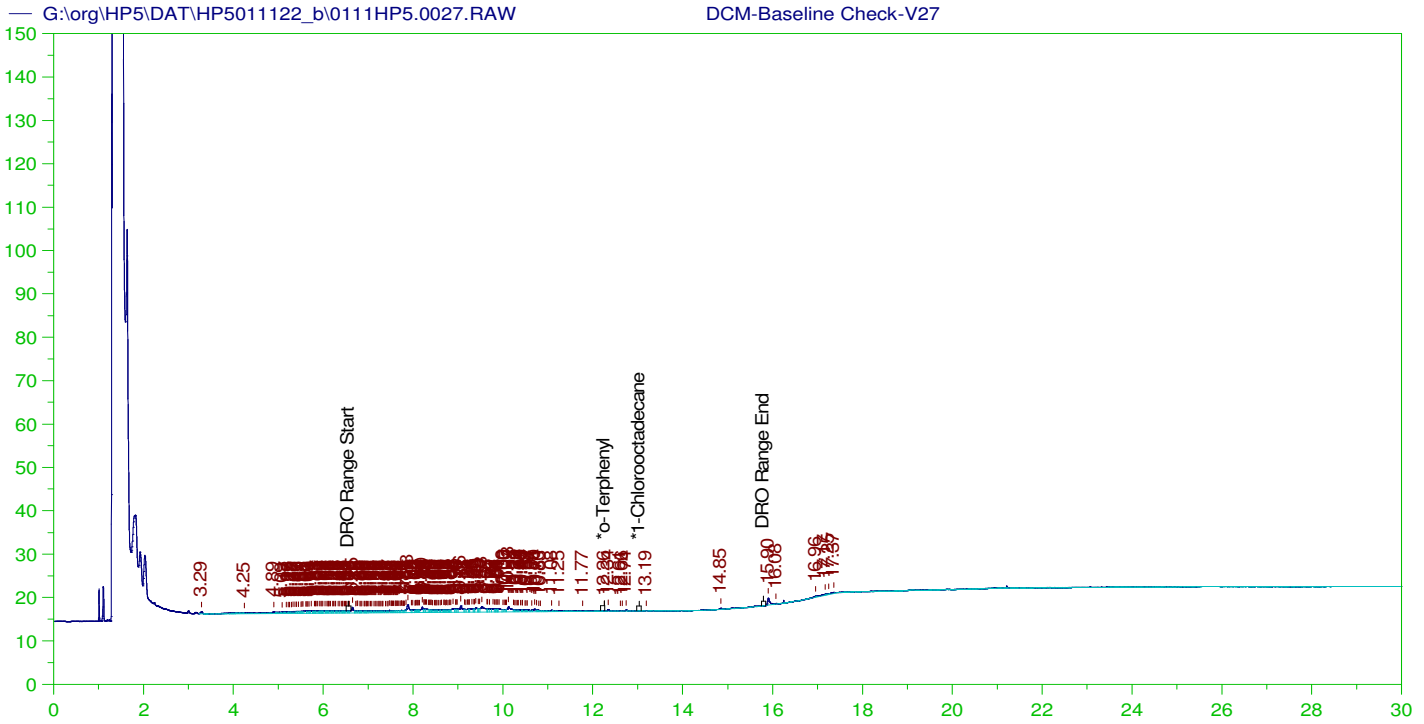
Sample Name: DCM-Baseline Check-V25
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0025.RAW
 Date & Time Acquired: 1/12/2022 1:29:46 AM
 Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.5 to 15.82

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.899 | 200. | . | - |
| *1-Chlorooctadecane | 12.975 | 200. | .017 | .01 |

DRO Area:132028.6 DRO Amount: 4.211011
 TEH Area:186308.4 TEH Amount: 5.942247





DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V27
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0027.RAW
 Date & Time Acquired: 1/12/2022 2:56:04 AM
 Method File: G:\Org\HP5\Methods\DR_8015-HS-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108Hs.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

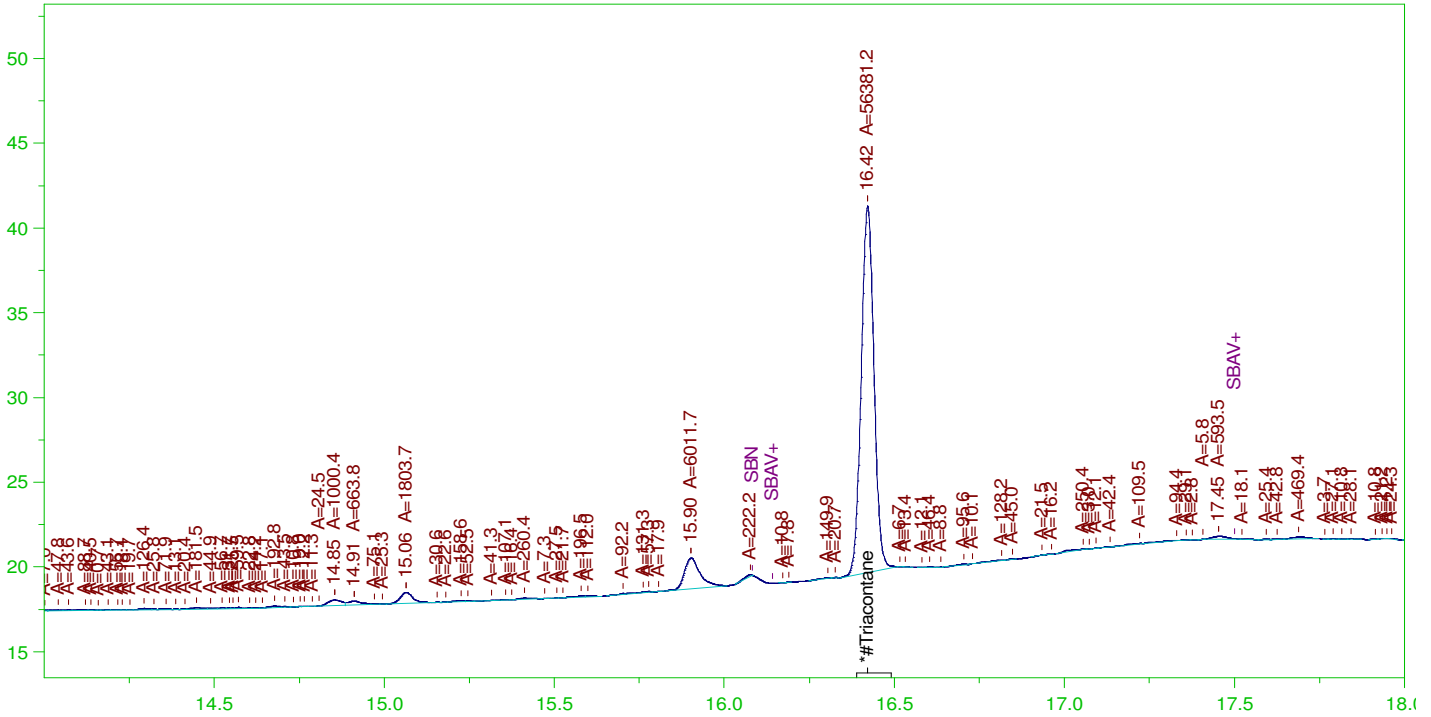
Mean RF for TEH: 29457.33
 Rt range for Diesel Range Organics: 6.51 to 15.85

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|------|---|
| *o-Terphenyl | 12.261 | 200. | .017 | .01 | - |
| *1-Chlorooctadecane | 29.983 | 200. | . | . | - |

DRO Area:193795.7 DRO Amount: 6.578862
 TEH Area:272770 TEH Amount: 9.259835

G:\Org\HP5\DAT\HP5011122_b\0111HP5.0028.RAW

CCV_0111HP528r, CAL1 ;0111HP5 , 2 ug per mL Triacontane



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP528r, CAL1 ;0111HP5 , 2 ug per mL Triacontane
 Raw File: G:\Org\HP5\DAT\HP5011122_b\0111HP5.0028.RAW
 Date & Time Acquired: 1/12/2022 3:39:11 AM
 Method File: G:\Org\HP5\Methods\DS_ORO-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111ba.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 12.51 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|------|
| *#Triacontane | 16.421 | 500. | 1.902 | .38 |

RRO Area:11465.21 RRO AMOUNT: 0.4016902

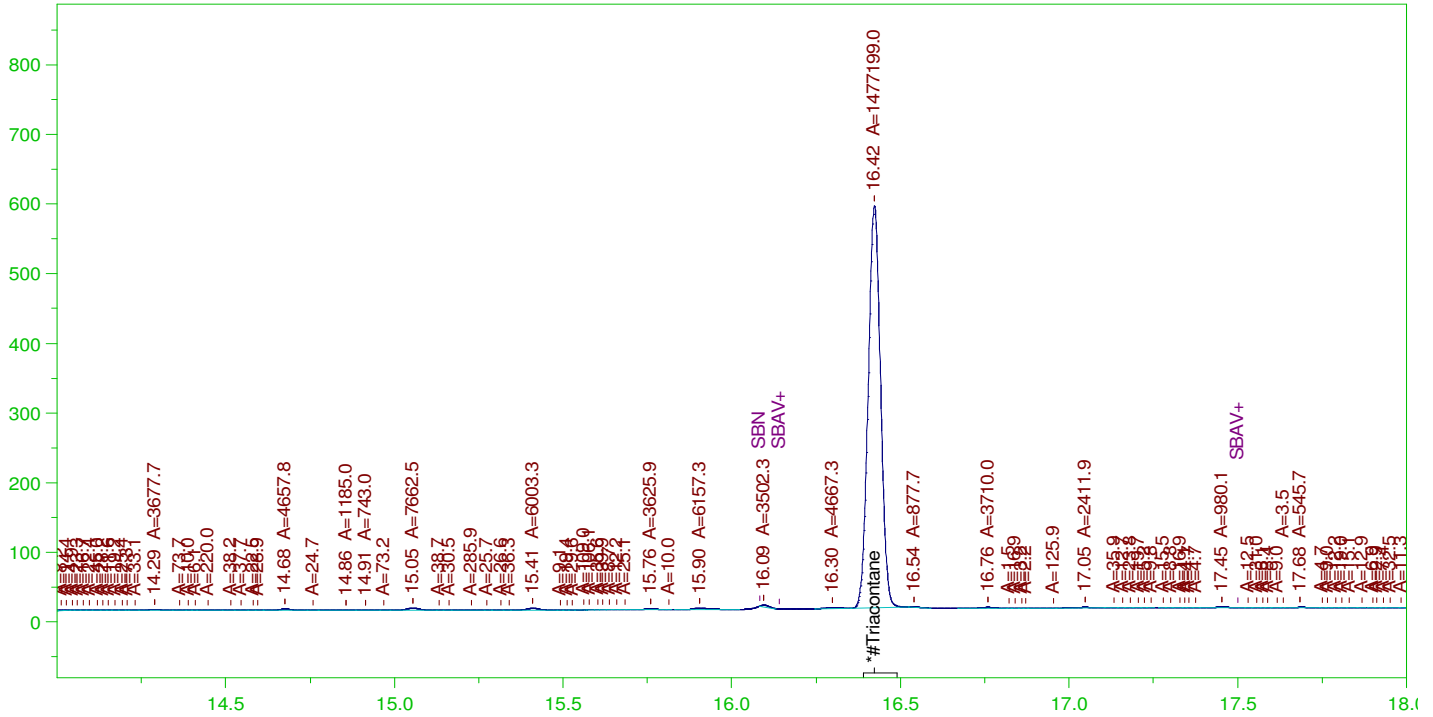
CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5011122_b\0111HP5.0028.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .056 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|------|--------|
| *#Triacontane | 16.421 | 200. | 1.902 | .95 | 75-125 |

G:\org\HP5\DAT\HP5011122_b\0111HP5.0029.RAW

CCV_0111HP529r, CAL2 ;0111HP5 , 50 ug per mL Triacontane



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP529r, CAL2 ;0111HP5 , 50 ug per mL Triacontane
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0029.RAW
 Date & Time Acquired: 1/12/2022 4:22:15 AM
 Method File: G:\Org\HP5\Methods\DS_ORO-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111ba.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 12.51 to 30.05

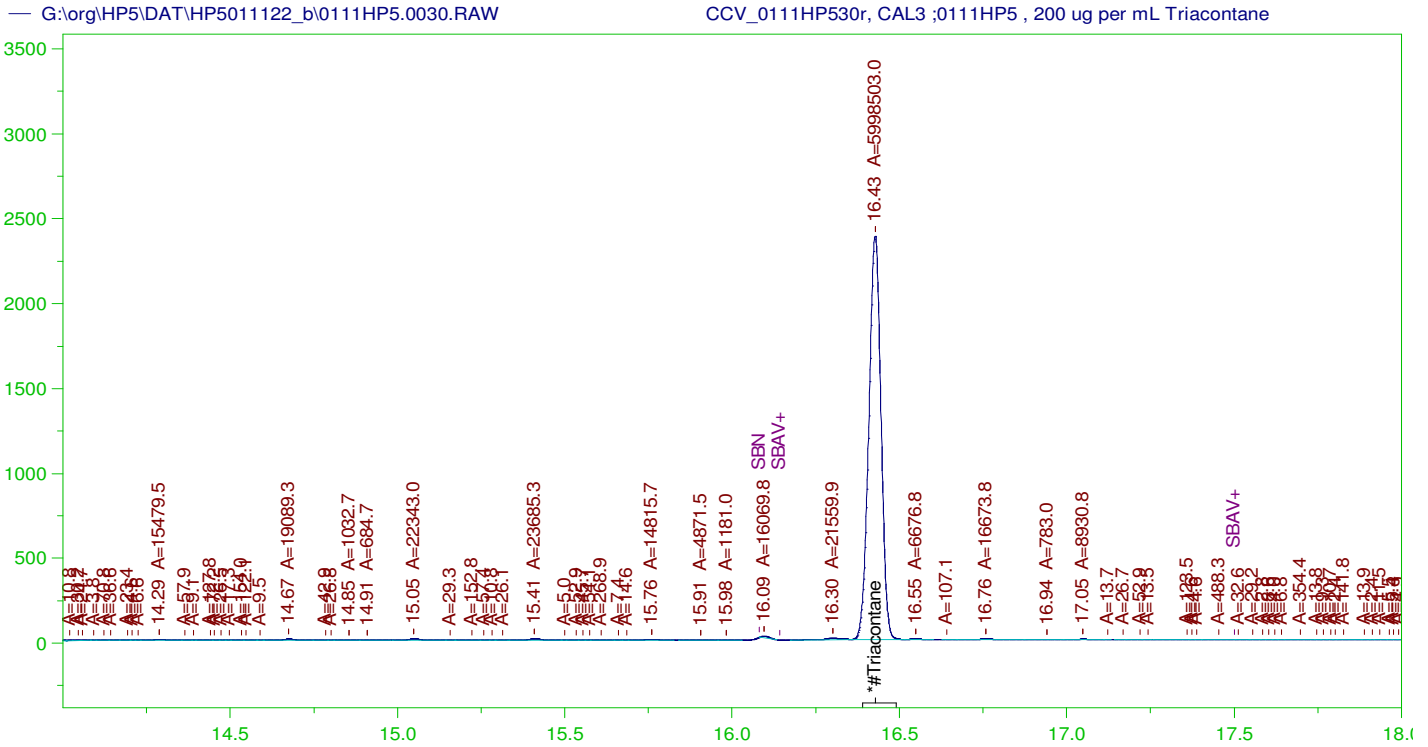
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|------|---|
| *#Triacontane | 16.423 | 500. | 49.845 | 9.97 | - |

RRO Area:60154.51 RRO AMOUNT: 2.107548

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0029.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .023 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.423 | 200. | 49.845 | 24.92 | 75-125 |



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP530r, CAL3 ;0111HP5 , 200 ug per mL Triacontane
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0030.RAW
 Date & Time Acquired: 1/12/2022 5:05:25 AM
 Method File: G:\Org\HP5\Methods\DS_ORO-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111ba.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 12.51 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.427 | 500. | 202.405 | 40.48 | - |

RRO Area:200104.8 RRO AMOUNT: 7.01079

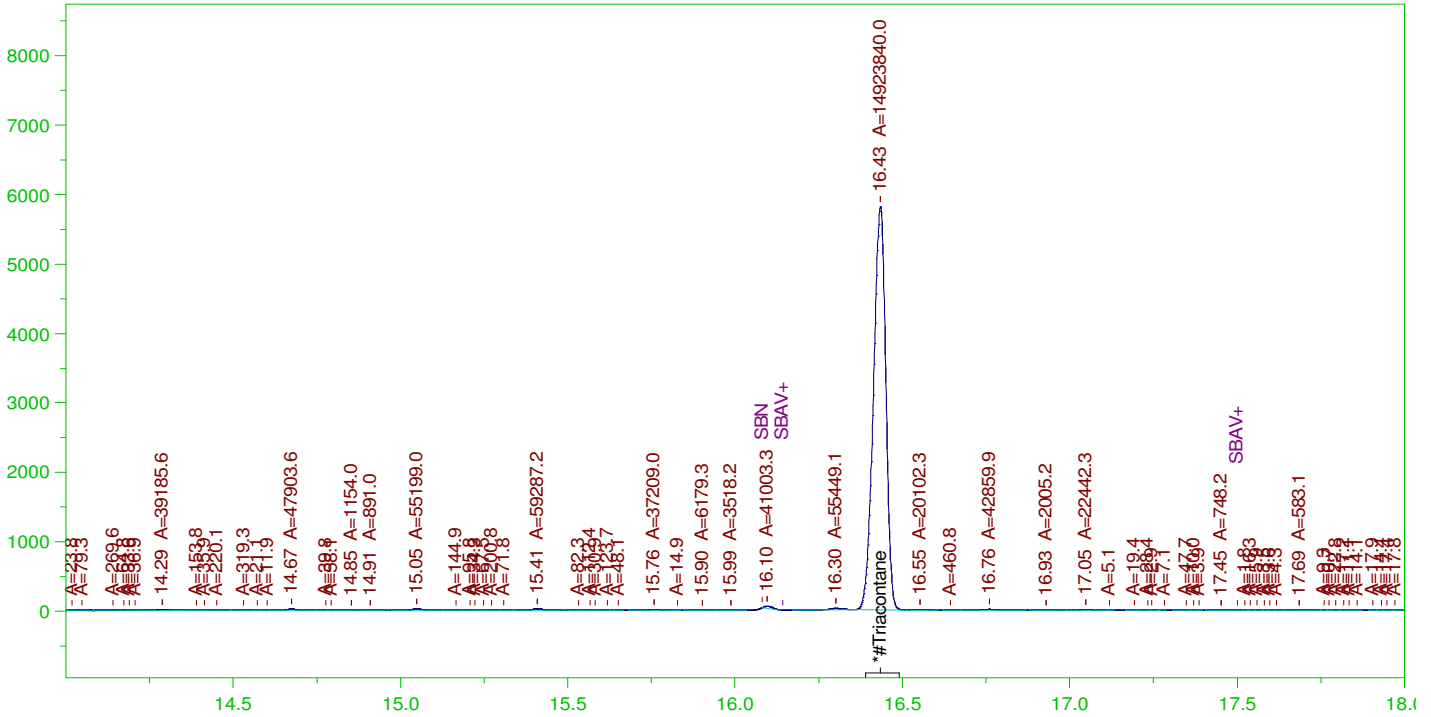
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0030.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.427 | 200. | 202.405 | 101.2 | 75-125 |

G:\org\HP5\DAT\HP5011122_b\0111HP5.0031.RAW

CCV_0111HP531r, CAL4 ;0111HP5 , 500 ug per mL Triacontane



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP531r, CAL4 ;0111HP5 , 500 ug per mL Triacontane
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0031.RAW
 Date & Time Acquired: 1/12/2022 5:48:34 AM
 Method File: G:\Org\HP5\Methods\DS_ORO-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111ba.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 12.51 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|--------|---|
| *#Triacontane | 16.434 | 500. | 503.57 | 100.71 | - |

RRO Area:497882.9 RRO AMOUNT: 17.44362

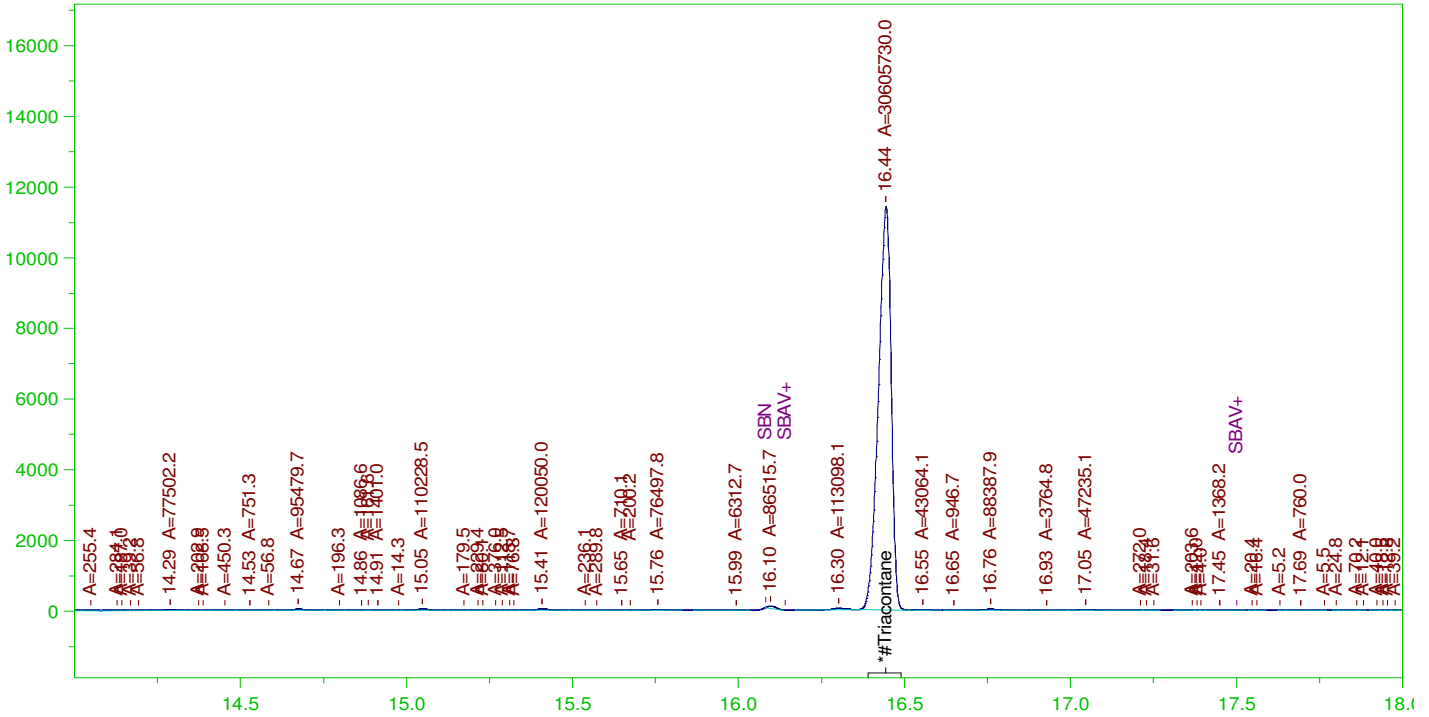
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0031.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|--------|--------|
| *#Triacontane | 16.434 | 200. | 503.57 | 251.78 | 75-125 |

G:\org\HP5\DAT\HP5011122_b\0111HP5.0050.RAW

CCV_0111HP550r, CAL5 ;0111HP5 , 1000 ug per mL Triacontane



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP550r, CAL5 ;0111HP5 , 1000 ug per mL Triacontane
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0050.RAW
 Date & Time Acquired: 1/12/2022 8:49:58 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111ba.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 28542.41
 Rt range for Residual Range Organics: 12.51 to 30.05

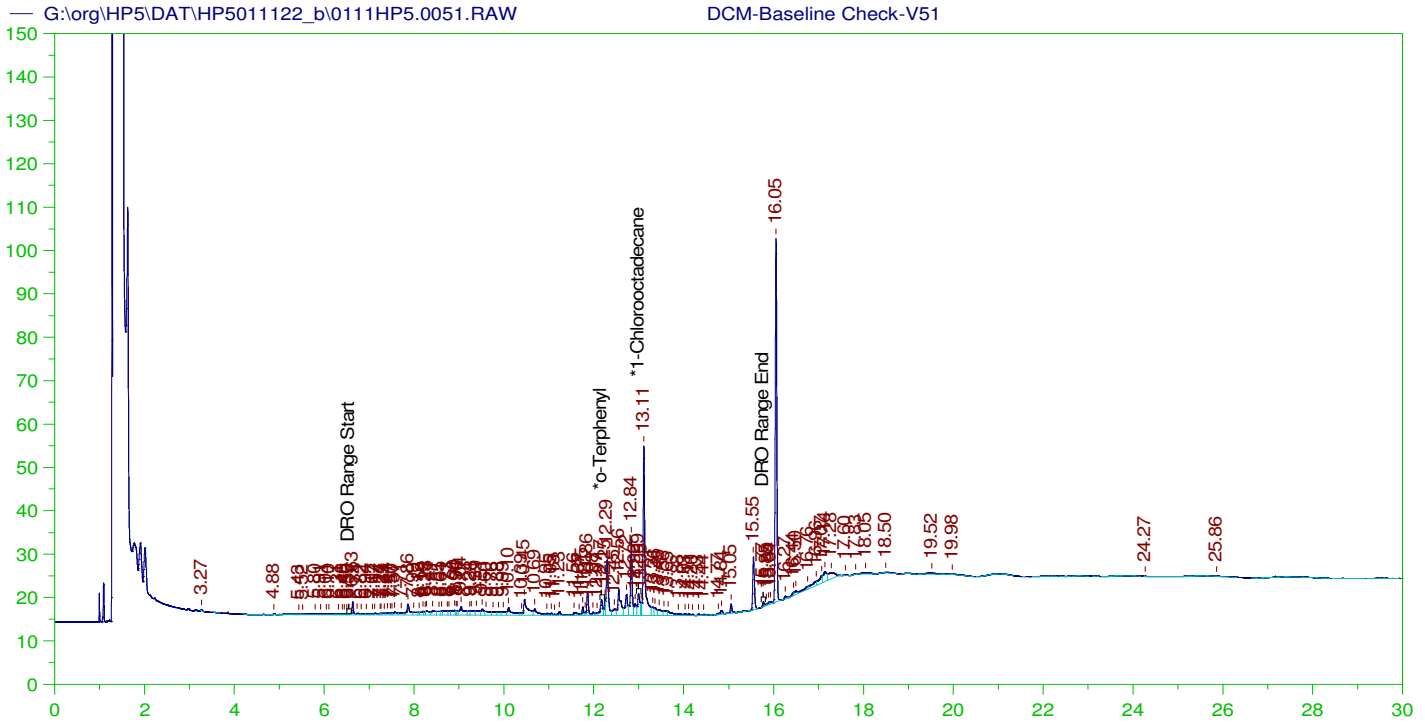
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|--------|---|
| *#Triacontane | 16.444 | 500. | 1032.718 | 206.54 | - |

RRO Area:993904.8 RRO AMOUNT: 34.82203

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0050.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|--------|--------|
| *#Triacontane | 16.444 | 200. | 1032.718 | 516.36 | 75-125 |



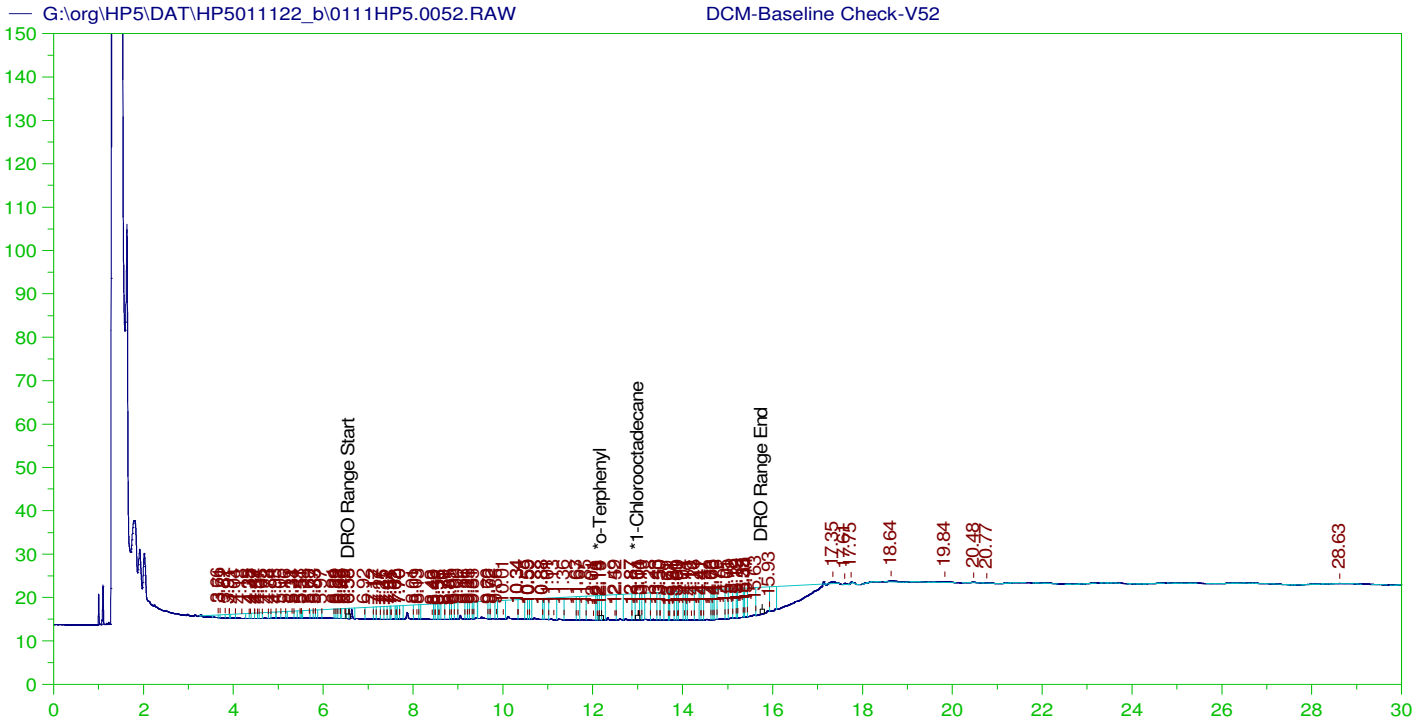
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V51
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0051.RAW
 Date & Time Acquired: 1/13/2022 12:15:29 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.5 to 15.82

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|------|---|
| *o-Terphenyl | 12.166 | 200. | .369 | .18 | - |
| *1-Chlorooctadecane | 12.994 | 200. | .464 | .23 | - |

DRO Area:587062.5 DRO Amount: 18.72417
 TEH Area:891448.4 TEH Amount: 28.43246



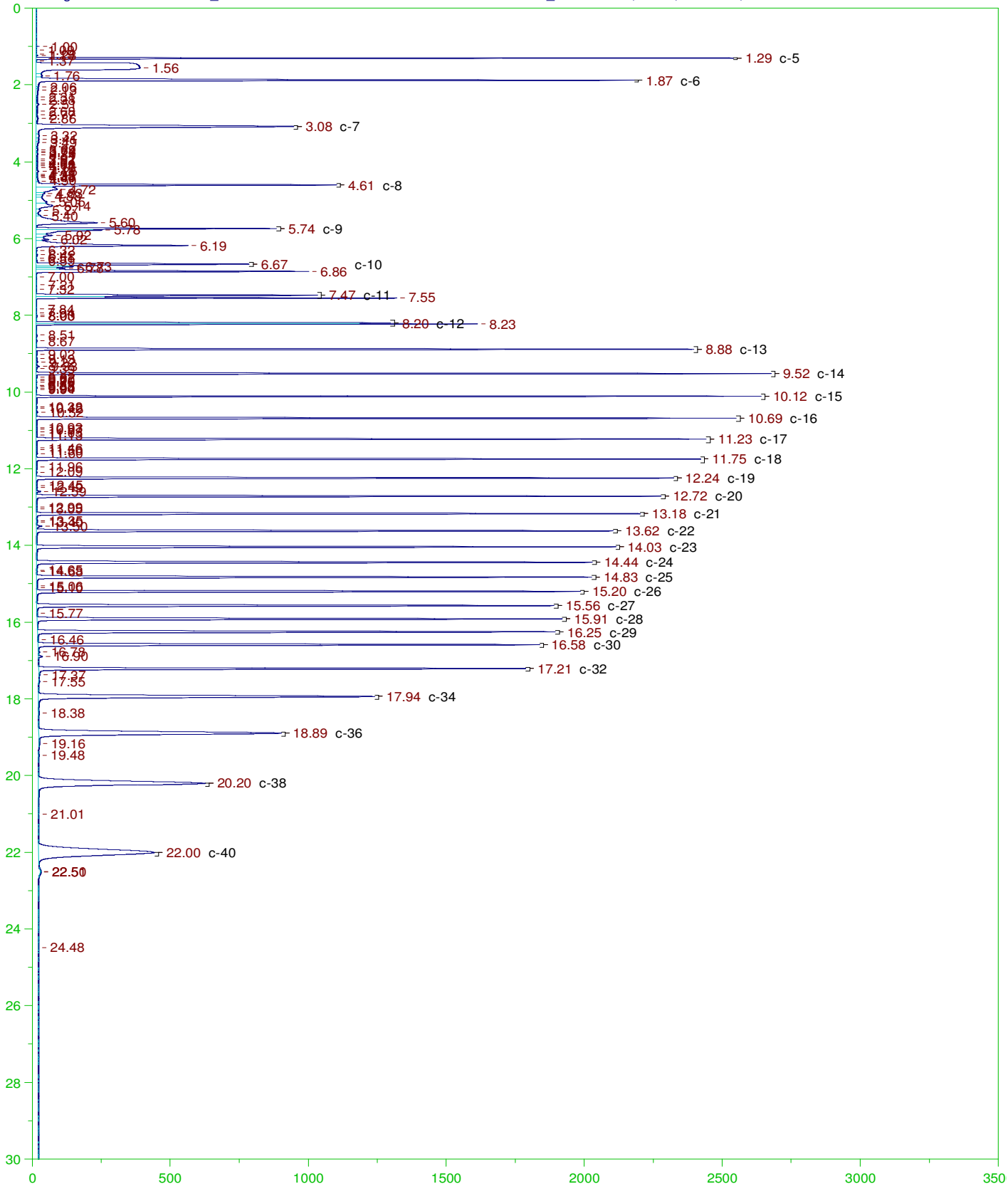
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

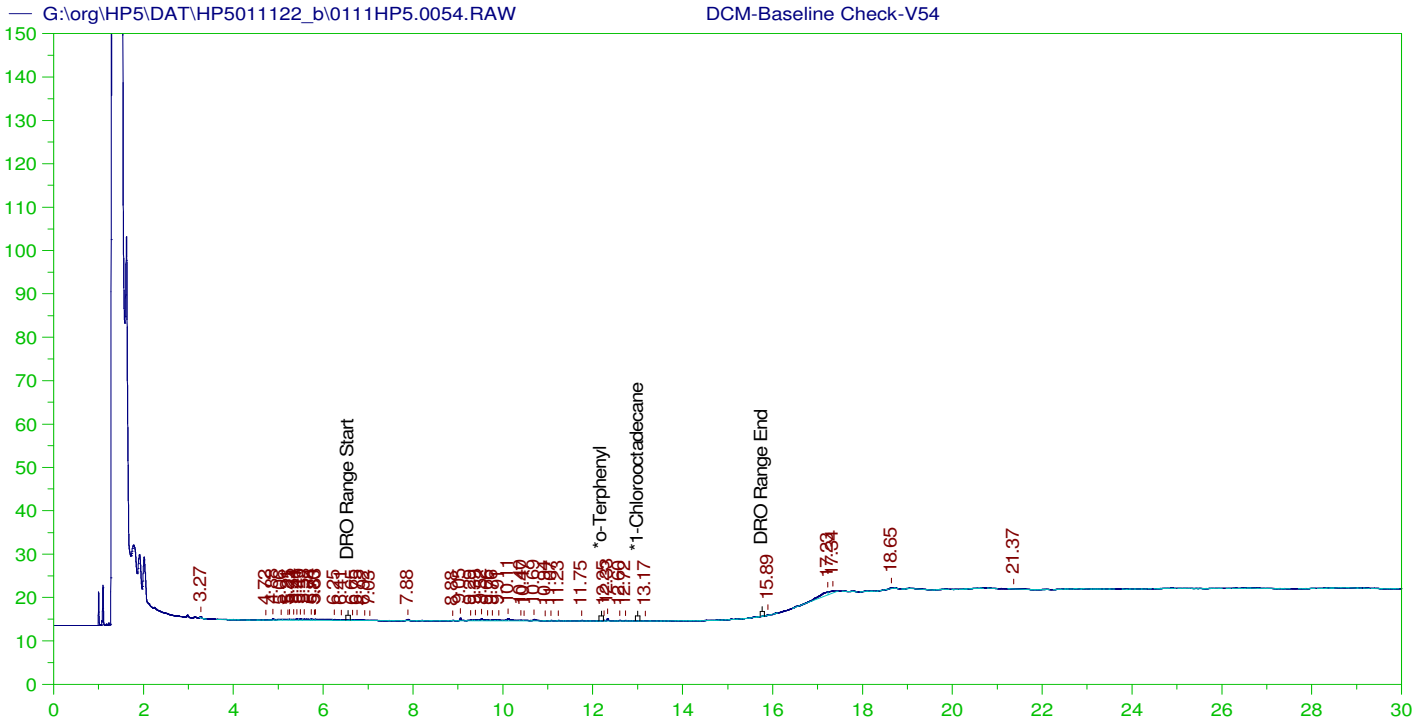
Sample Name: DCM-Baseline Check-V52
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0052.RAW
 Date & Time Acquired: 1/13/2022 12:58:31 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.5 to 15.82

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|------|---|
| *o-Terphenyl | 12.192 | 200. | .855 | .43 | - |
| *1-Chlorooctadecane | 13.007 | 200. | .955 | .48 | - |

DRO Area:2710300 DRO Amount: 86.44414
 TEH Area:2842315 TEH Amount: 90.65472





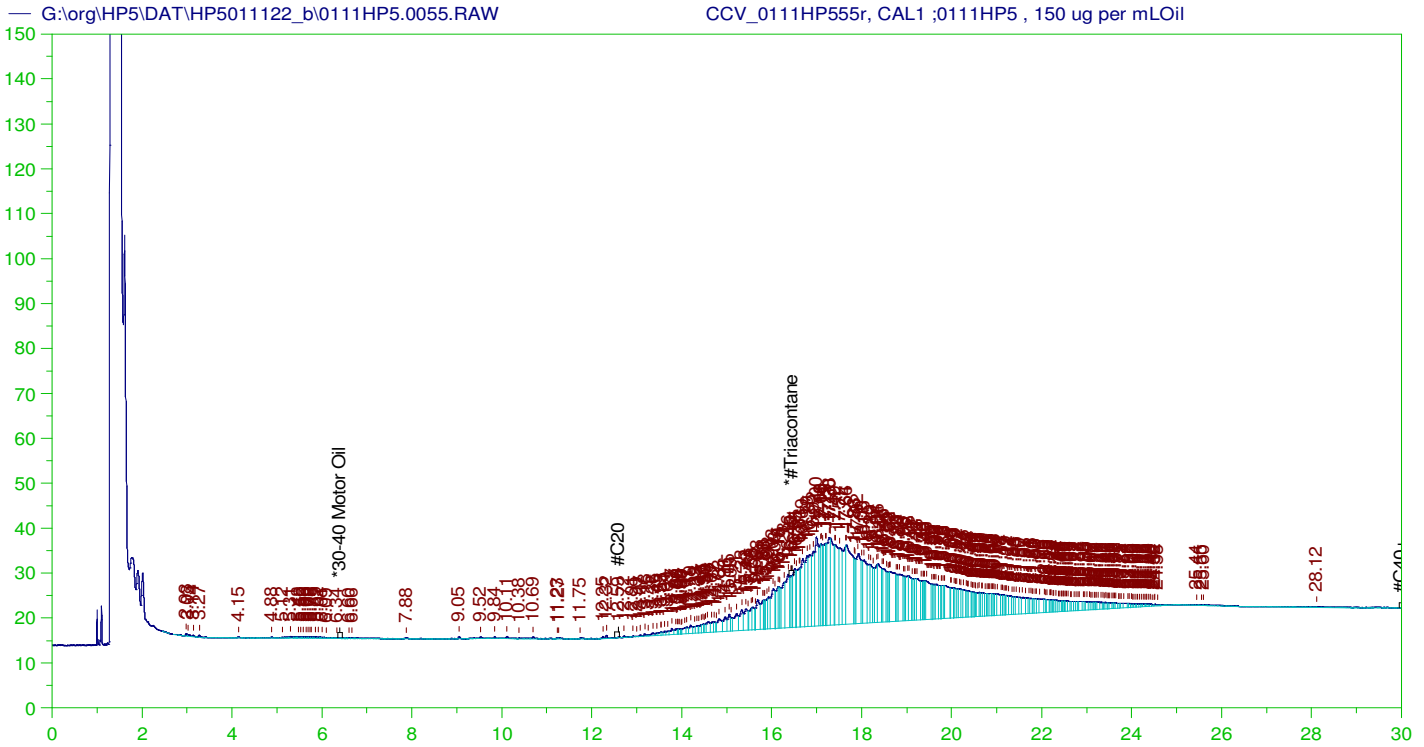
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V54
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0054.RAW
 Date & Time Acquired: 1/13/2022 2:23:42 PM
 Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.5 to 15.82

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.882 | 200. | . | - |
| *1-Chlorooctadecane | 29.882 | 200. | . | - |

DRO Area:44798.44 DRO Amount: 1.428832
 TEH Area:97771.24 TEH Amount: 3.118382



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP555r, CAL1 ;0111HP5 , 150 ug per mL Oil
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0055.RAW
 Date & Time Acquired: 1/13/2022 3:06:11 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-55-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.51 to 30.05

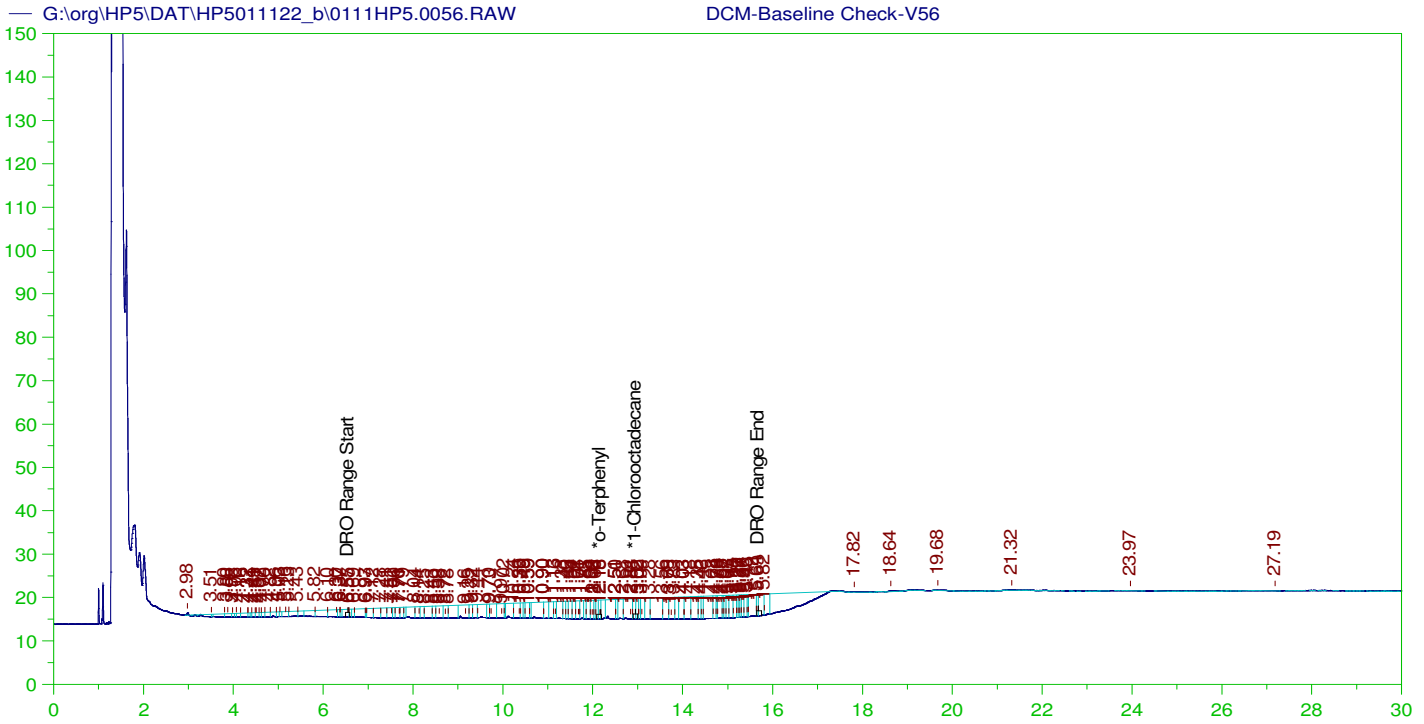
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|------|---|
| *#Triacontane | 16.447 | 500. | .47 | .09 | - |

RRO Area: 4215928 RRO AMOUNT: 159.5459

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0055.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|------|--------|
| *#Triacontane | 16.447 | 200. | .47 | .23 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

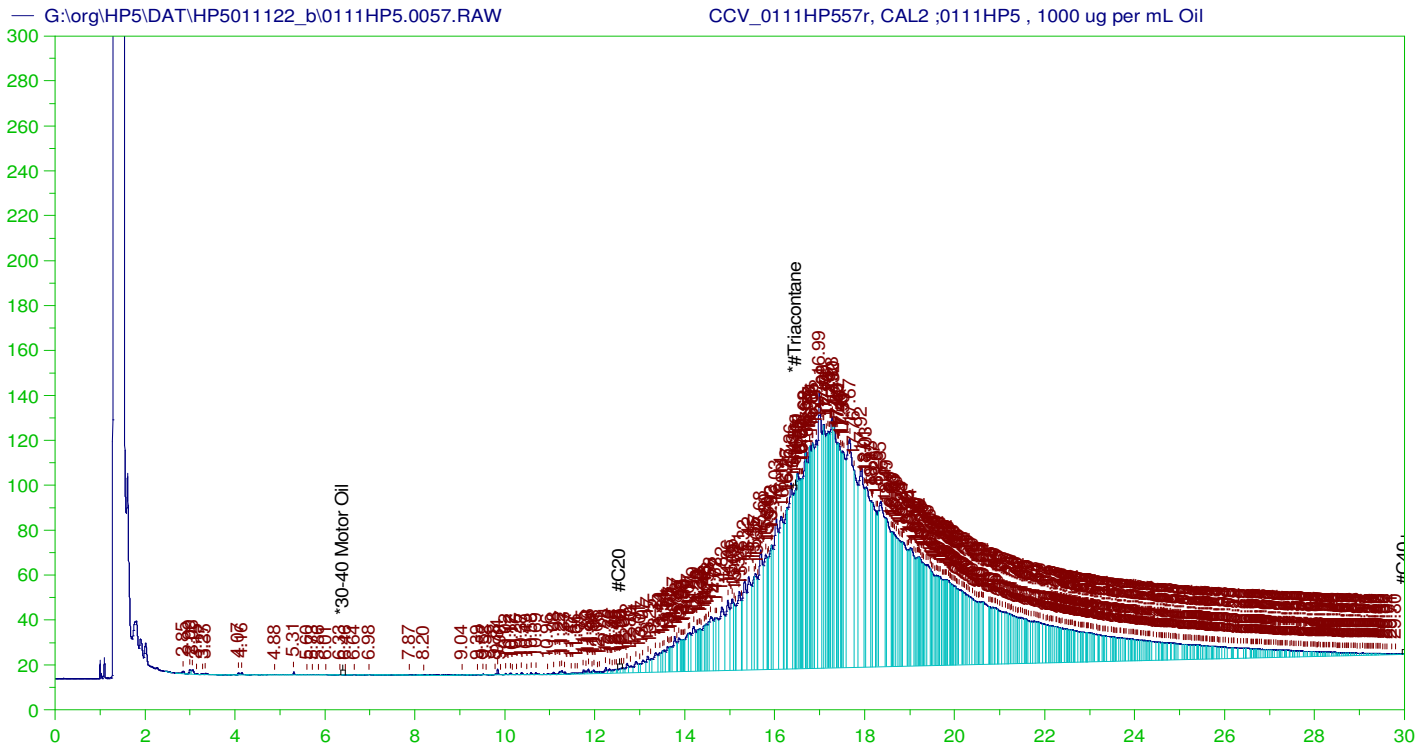
Sample Name: DCM-Baseline Check-V56
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0056.RAW
 Date & Time Acquired: 1/13/2022 3:48:53 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 12.162 | 200. | .406 | .2 |
| *1-Chlorooctadecane | 29.946 | 200. | . | . |

DRO Area:2125703 DRO Amount: 72.16209
 TEH Area:2146824 TEH Amount: 72.8791



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP557r, CAL2 ;0111HP5 , 1000 ug per mL Oil
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0057.RAW
 Date & Time Acquired: 1/13/2022 4:31:31 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-57-BA-L\MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.51 to 30.05

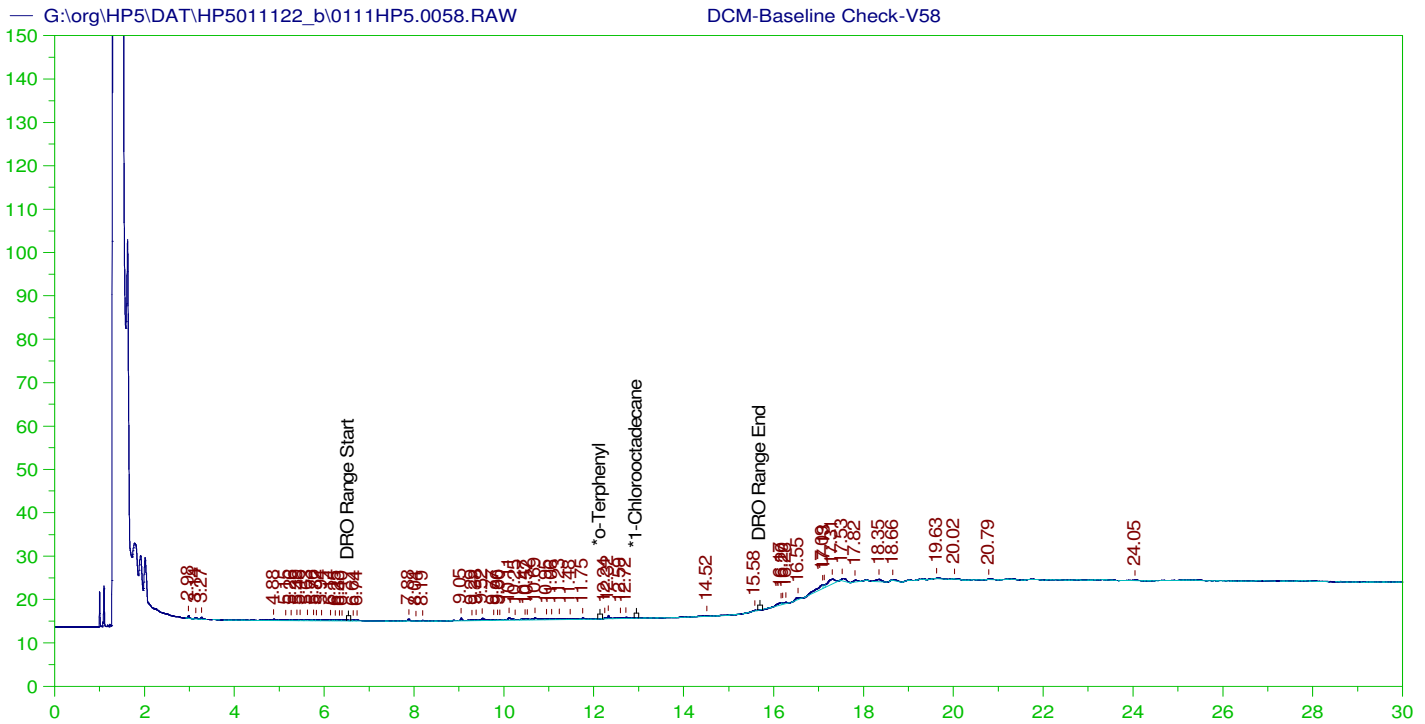
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|------|
| *#Triacontane | 16.454 | 500. | 3.058 | .61 |

RRO Area: 2.729502E+07 RRO AMOUNT: 1032.941

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0057.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|------|--------|
| *#Triacontane | 16.454 | 200. | 3.058 | 1.53 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

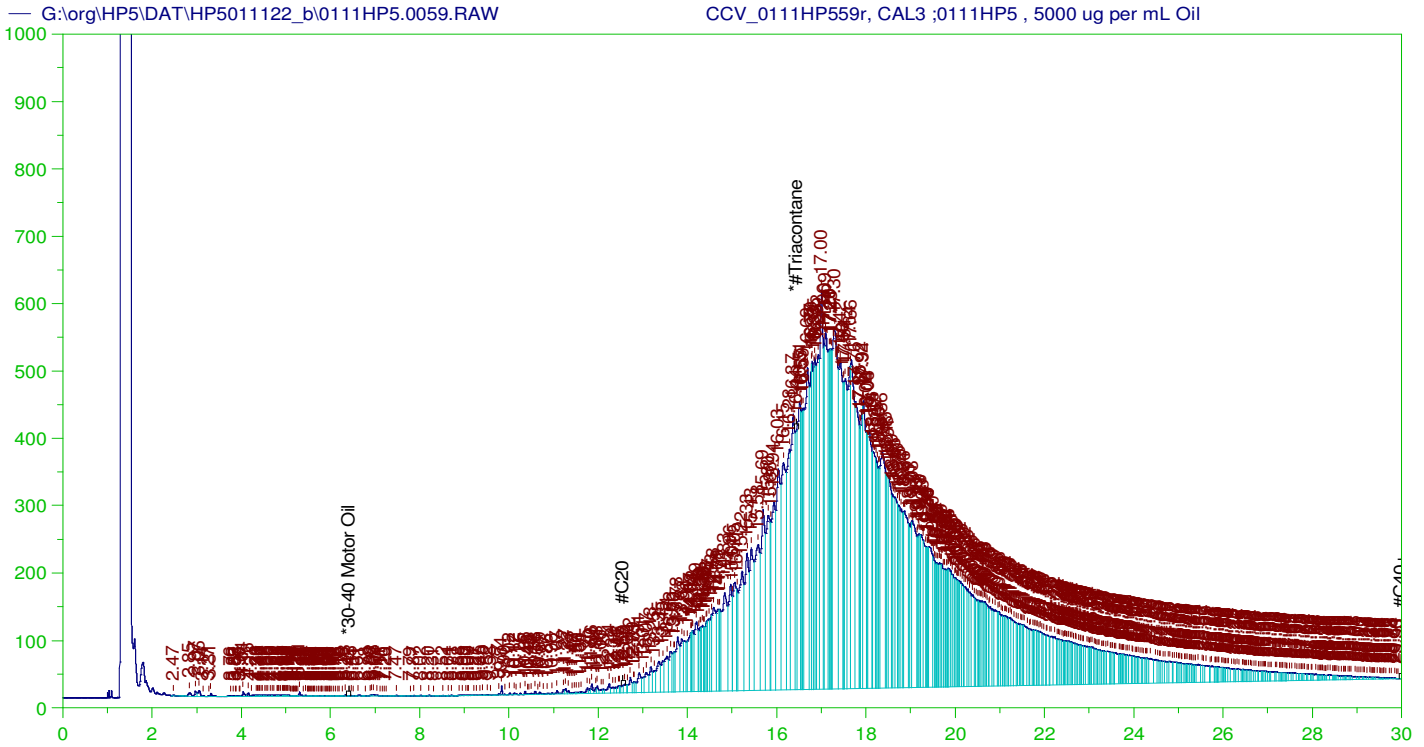
Sample Name: DCM-Baseline Check-V58
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0058.RAW
 Date & Time Acquired: 1/13/2022 5:14:45 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|-------|--------|----------|------|
| *o-Terphenyl | 29.94 | 200. | . | - |
| *1-Chlorooctadecane | 29.94 | 200. | . | - |

DRO Area:48306.73 DRO Amount: 1.639888
 TEH Area:141285.5 TEH Amount: 4.796276



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP559r, CAL3 ;0111HP5 , 5000 ug per mL Oil
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0059.RAW
 Date & Time Acquired: 1/13/2022 5:57:48 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-59-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.51 to 30.05

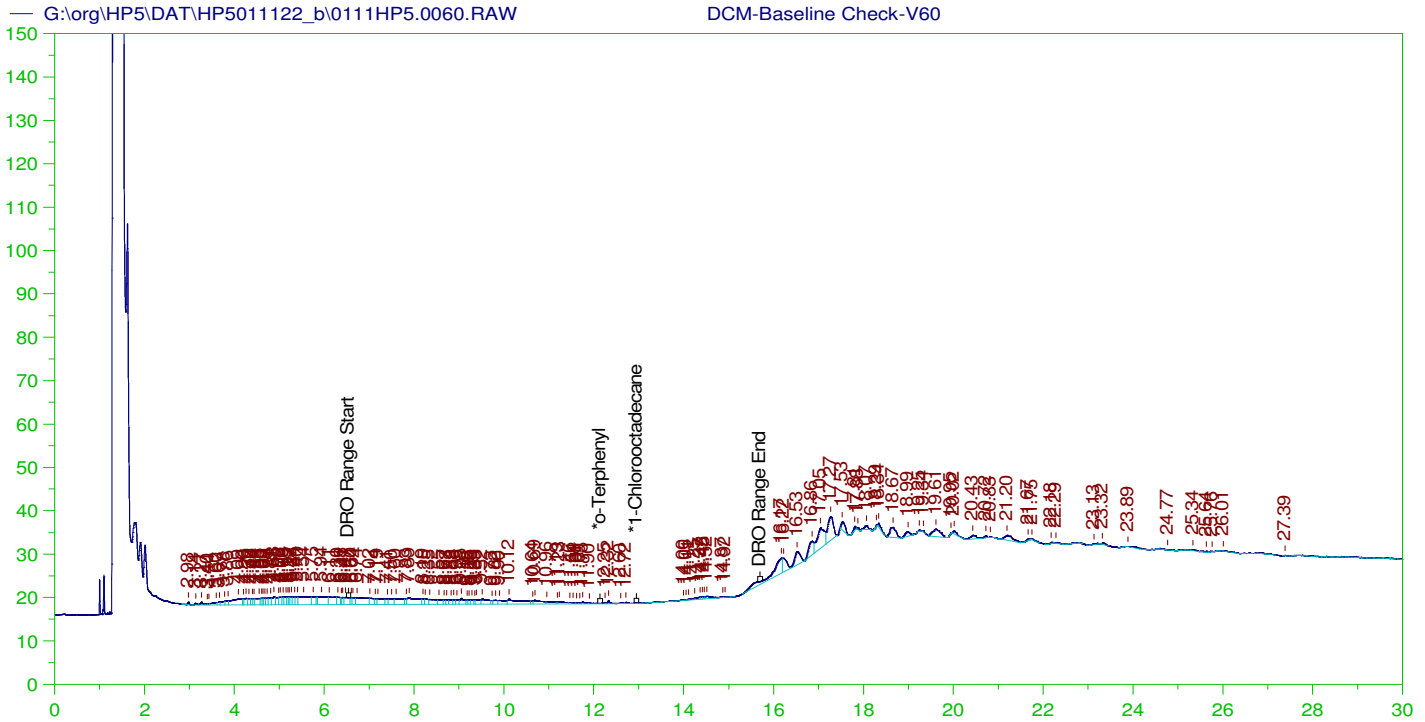
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|------|---|
| *#Triacontane_____ | 16.442 | 500. | 33.09 | 6.62 | - |

RRO Area:1.303441E+08 RRO AMOUNT: 4932.688

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0059.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil_____ | 5000. | .037 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane_____ | 16.442 | 200. | 33.09 | 16.54 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

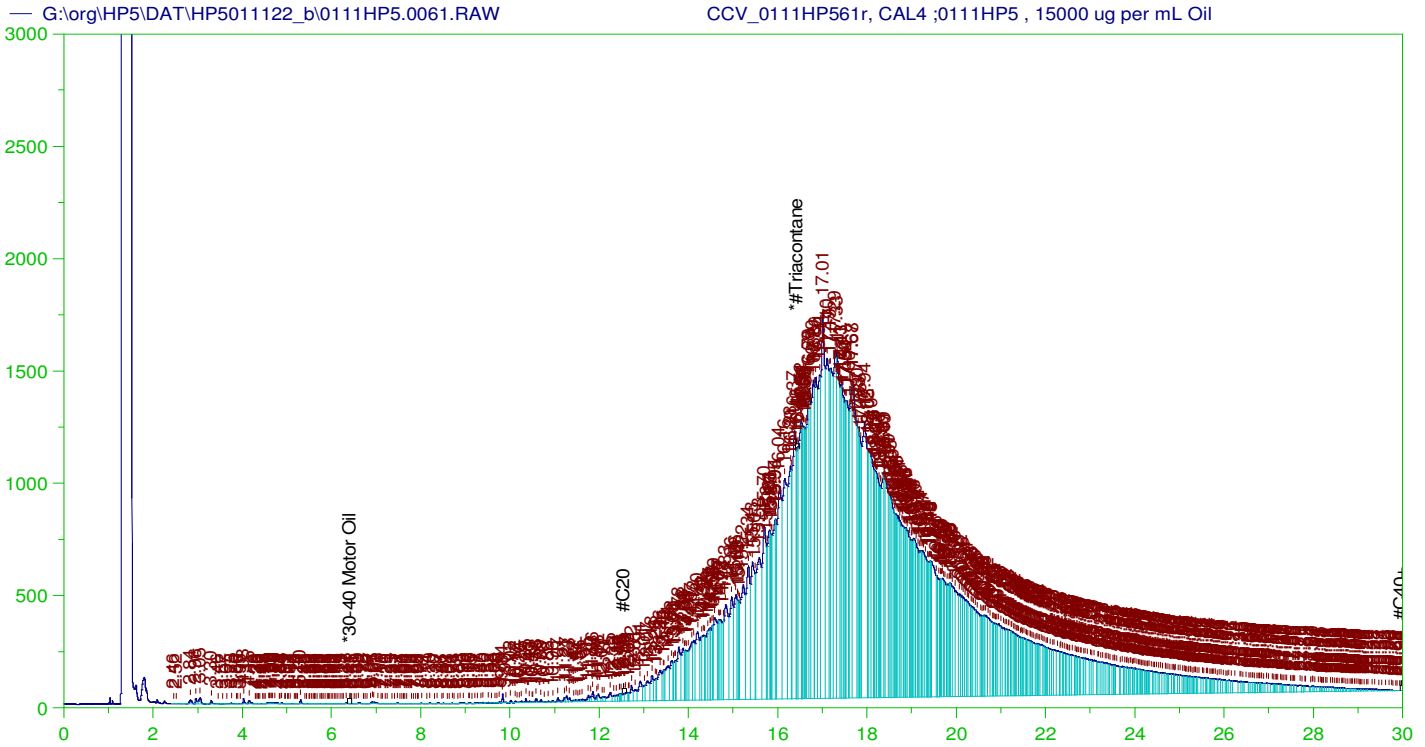
Sample Name: DCM-Baseline Check-V60
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0060.RAW
 Date & Time Acquired: 1/13/2022 6:41:03 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.911 | 200. | . | - |
| *1-Chlorooctadecane | 29.911 | 200. | . | - |

DRO Area:316779.5 DRO Amount: 10.75384
 TEH Area:980005.5 TEH Amount: 33.26864



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP561r, CAL4 ;0111HP5 , 15000 ug per mL Oil
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0061.RAW
 Date & Time Acquired: 1/13/2022 7:24:16 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-61-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.51 to 30.05

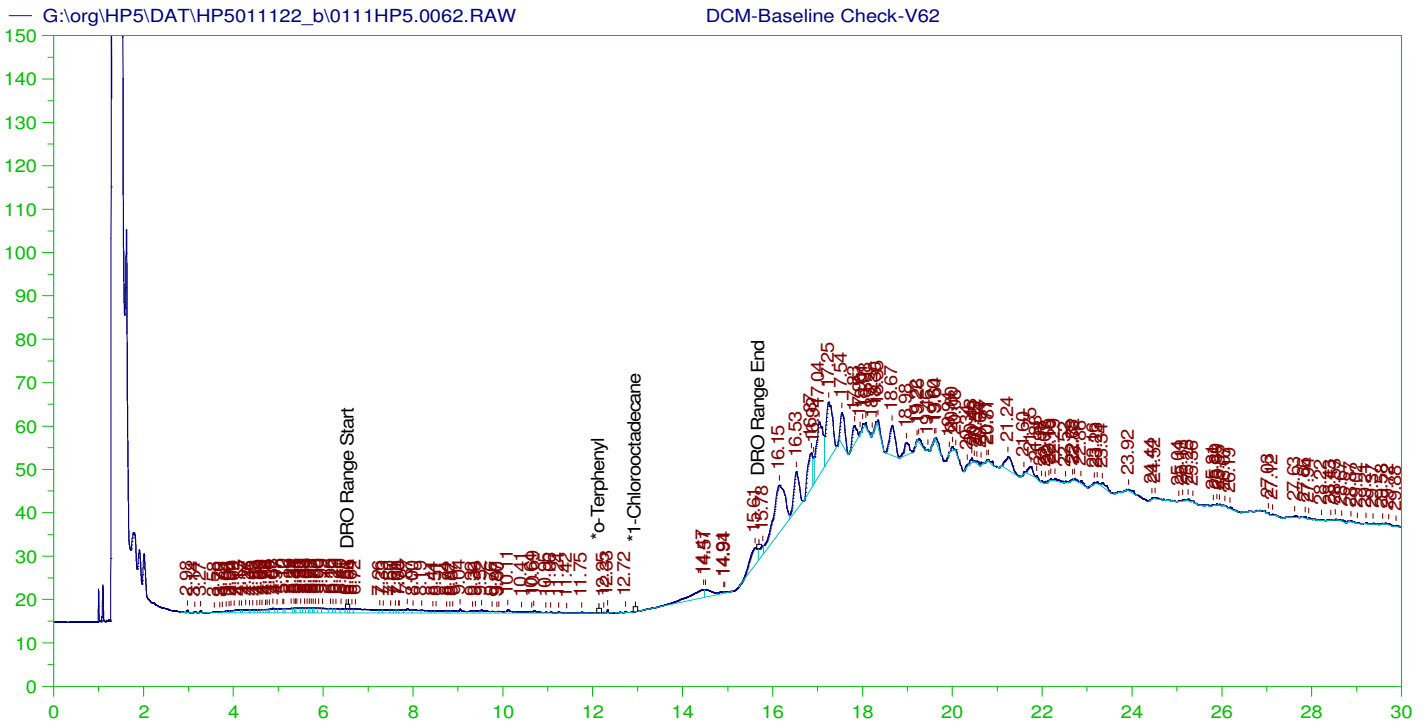
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|------|---|
| *#Triacontane | 16.429 | 500. | 33.728 | 6.75 | - |

RRO Area: 3.786286E+08 RRO AMOUNT: 14328.67

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0061.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .086 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.429 | 200. | 33.728 | 16.86 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

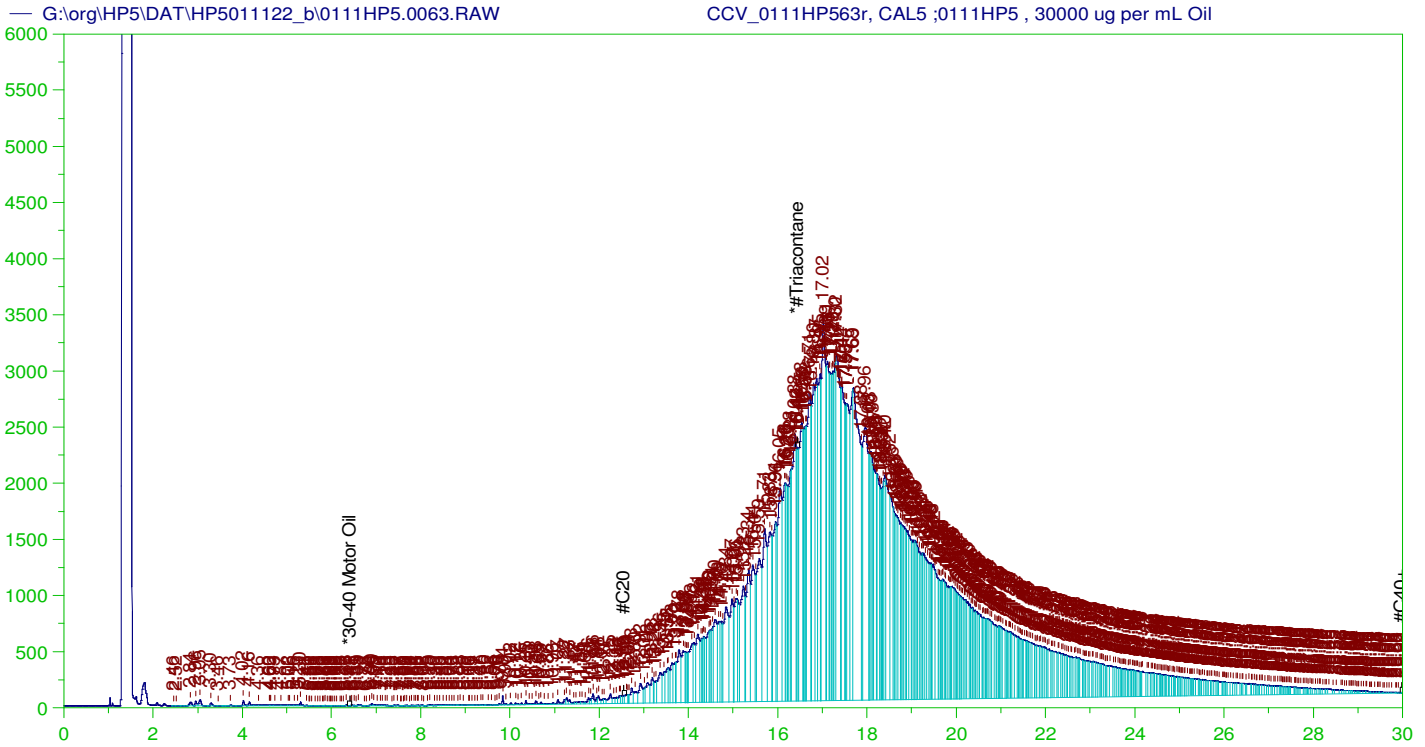
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 Date & Time Acquired: 1/13/2022 8:07:28 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.883 | 200. | . | . |
| *1-Chlorooctadecane | 29.883 | 200. | . | . |

DRO Area:289041.4 DRO Amount: 9.812207
 TEH Area:1408450 TEH Amount: 47.81323



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP563r, CAL5 ;0111HP5 , 30000 ug per mL Oil
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0063.RAW
 Date & Time Acquired: 1/13/2022 8:50:32 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.51 to 30.05

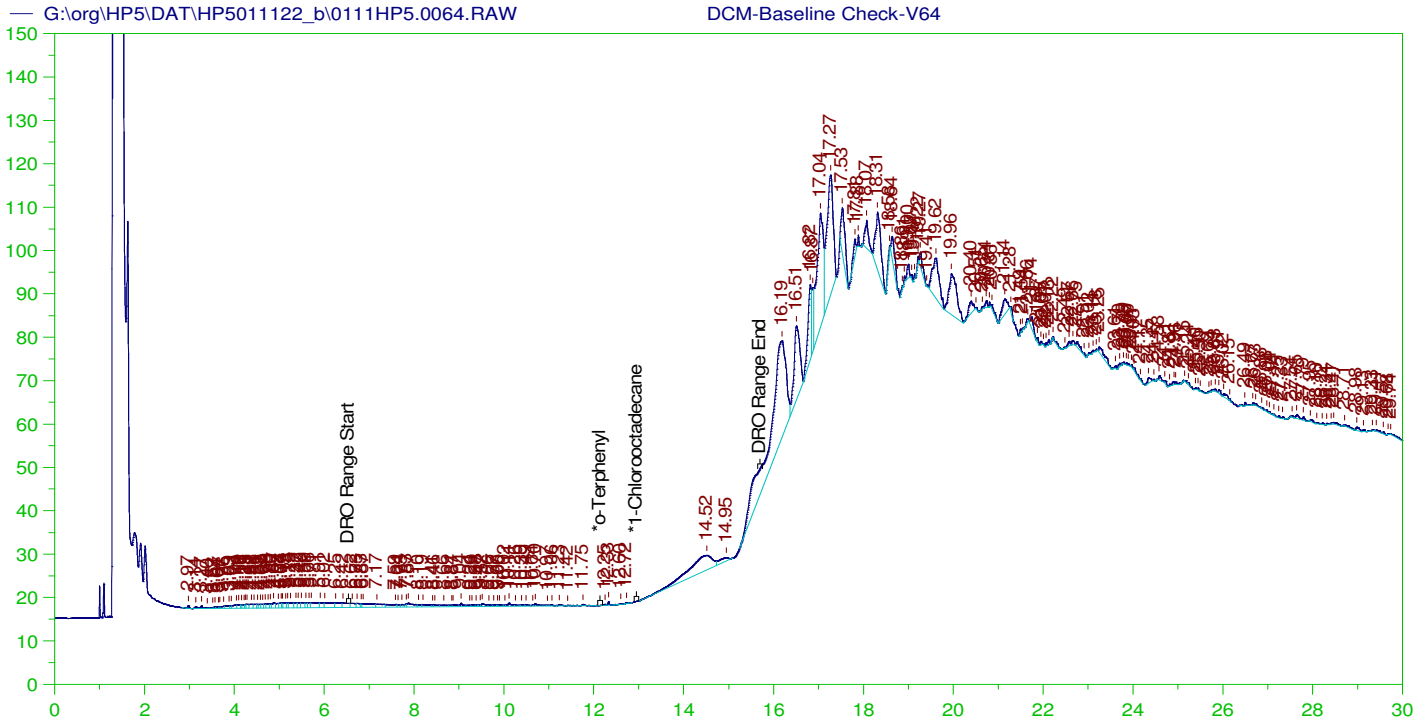
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|-------|--------|----------|-------|---|
| *#Triacontane | 16.44 | 500. | 102.625 | 20.52 | - |

RRO Area: 7.608009E+08 RRO AMOUNT: 28791.44

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5011122_b\0111HP5.0063.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .102 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|-------|--------|----------|-------|--------|
| *#Triacontane | 16.44 | 200. | 102.625 | 51.31 | 75-125 |



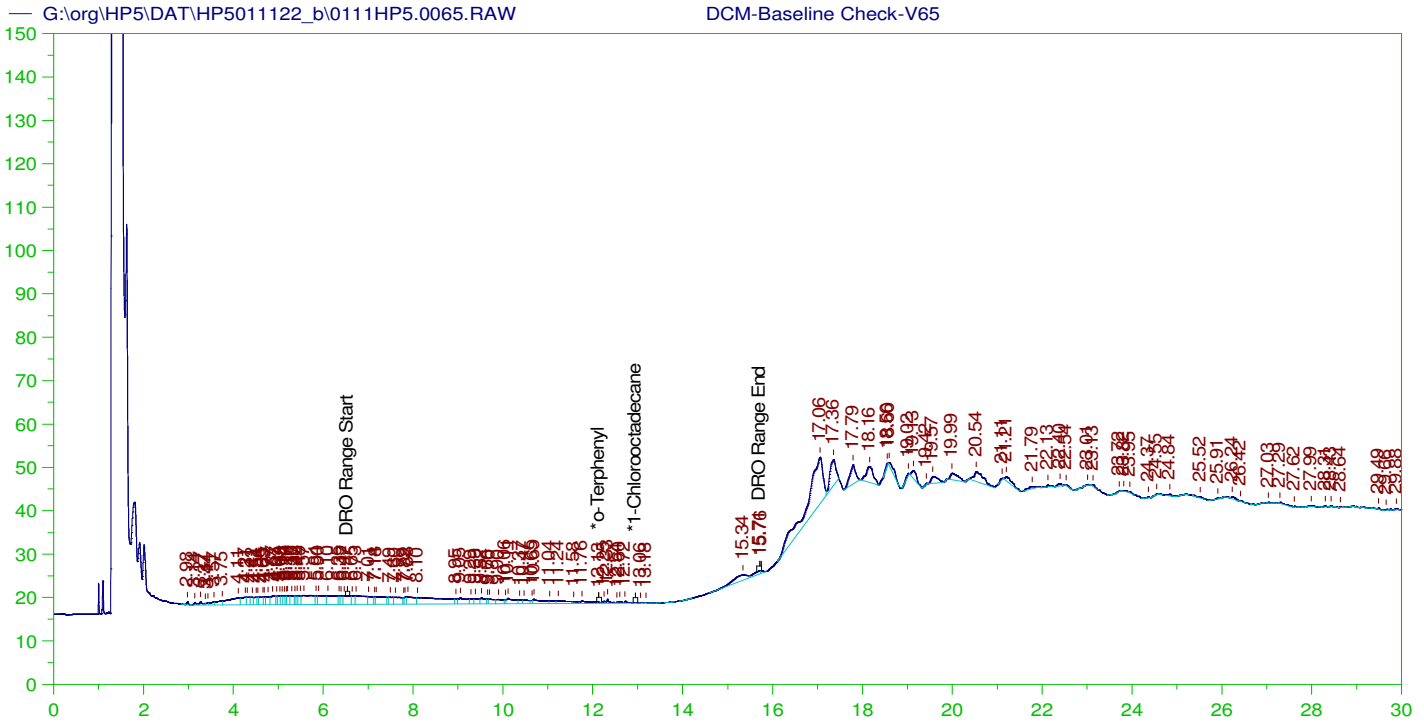
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V64
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0064.RAW
 Date & Time Acquired: 1/13/2022 9:33:32 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
 Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.741 | 200. | . | . |
| *1-Chlorooctadecane | 29.741 | 200. | . | . |

DRO Area:282237.4 DRO Amount: 9.581227
 TEH Area:2669631 TEH Amount: 90.62704



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

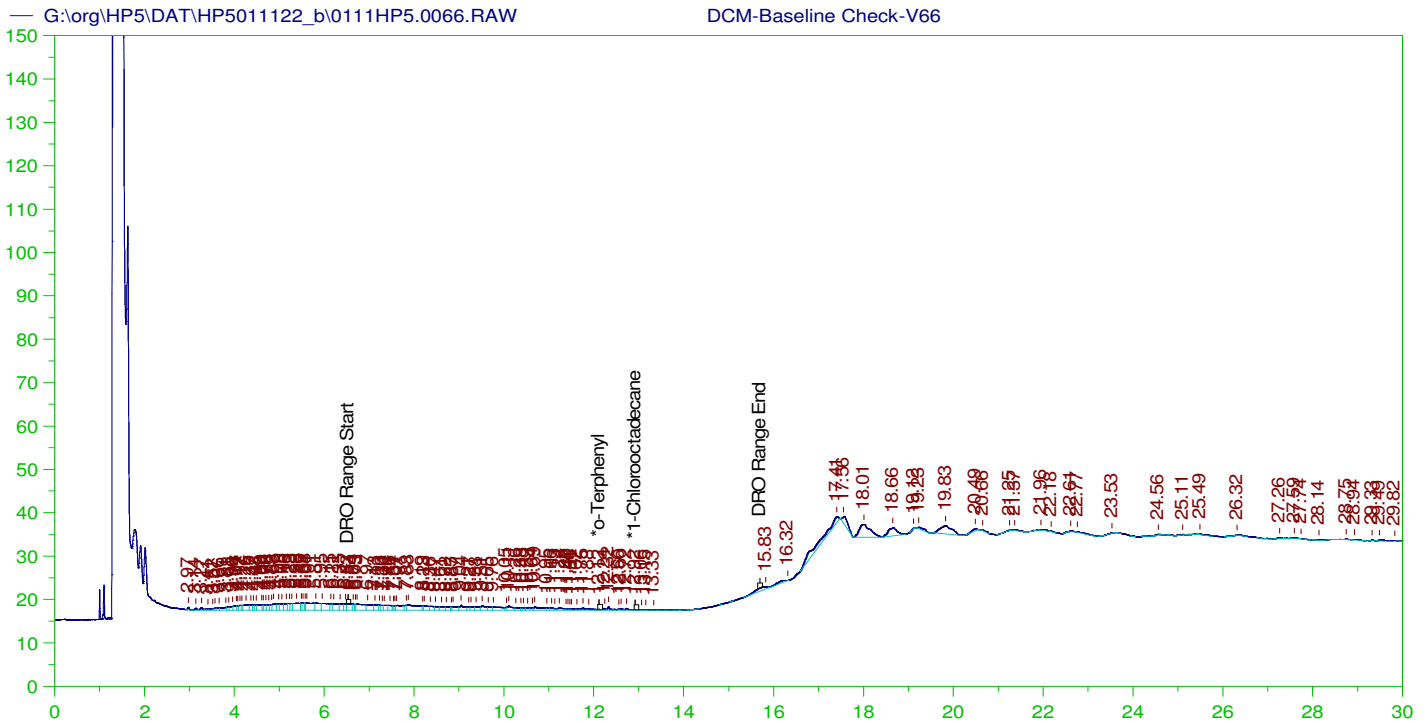
Sample Name: DCM-Baseline Check-V65
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0065.RAW
 Date & Time Acquired: 1/13/2022 10:16:33 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33

Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 12.129 | 200. | .021 | .01 |
| *1-Chlorooctadecane | 29.884 | 200. | . | . |

DRO Area:397141.5 DRO Amount: 13.48192
 TEH Area:1310457 TEH Amount: 44.48662



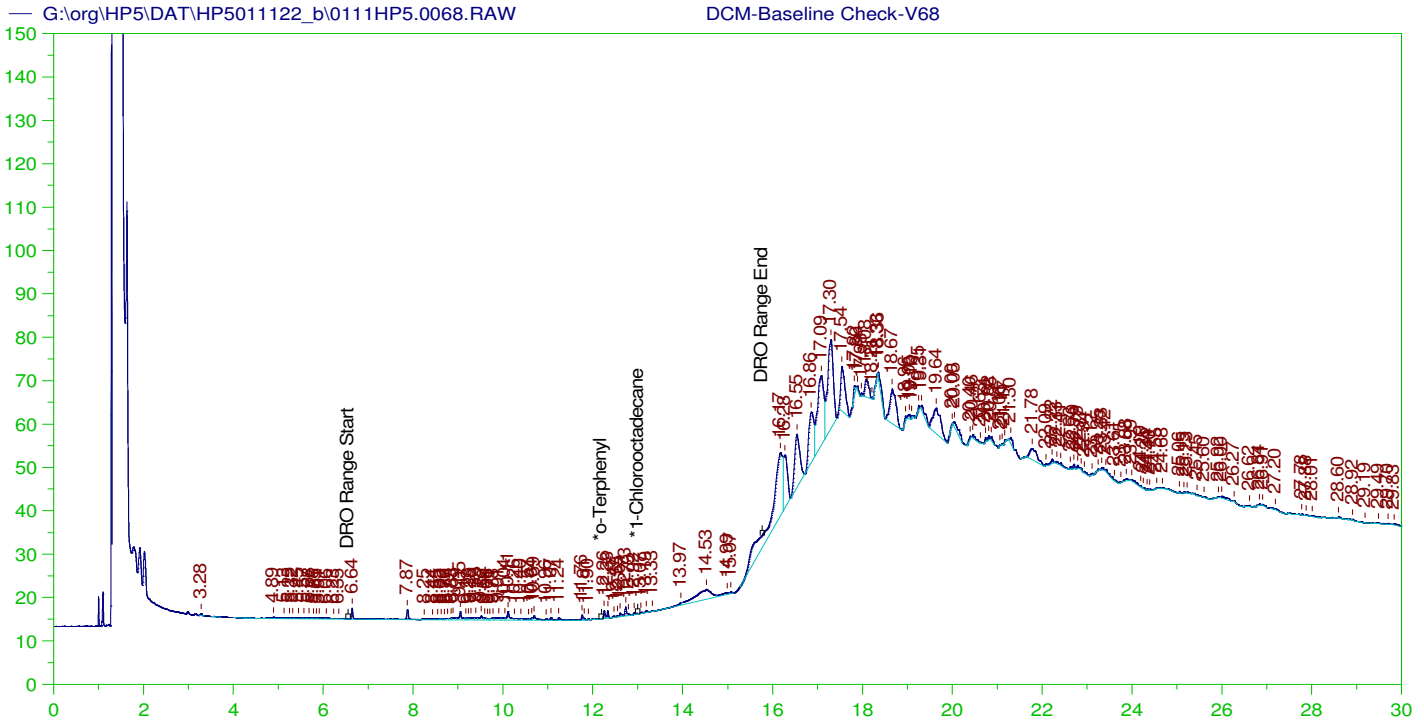
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V66
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0066.RAW
 Date & Time Acquired: 1/13/2022 10:59:39 PM
 Method File: G:\Org\HP5\Methods\DR_8015-HE-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO210108HE.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 29457.33
 Rt range for Diesel Range Organics: 6.49 to 15.75

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 12.12 | 200. | .025 | .01 |
| *1-Chlorooctadecane | 12.922 | 200. | .037 | .02 |

DRO Area: 278500.4 DRO Amount: 9.454367
 TEH Area: 757930.2 TEH Amount: 25.72976



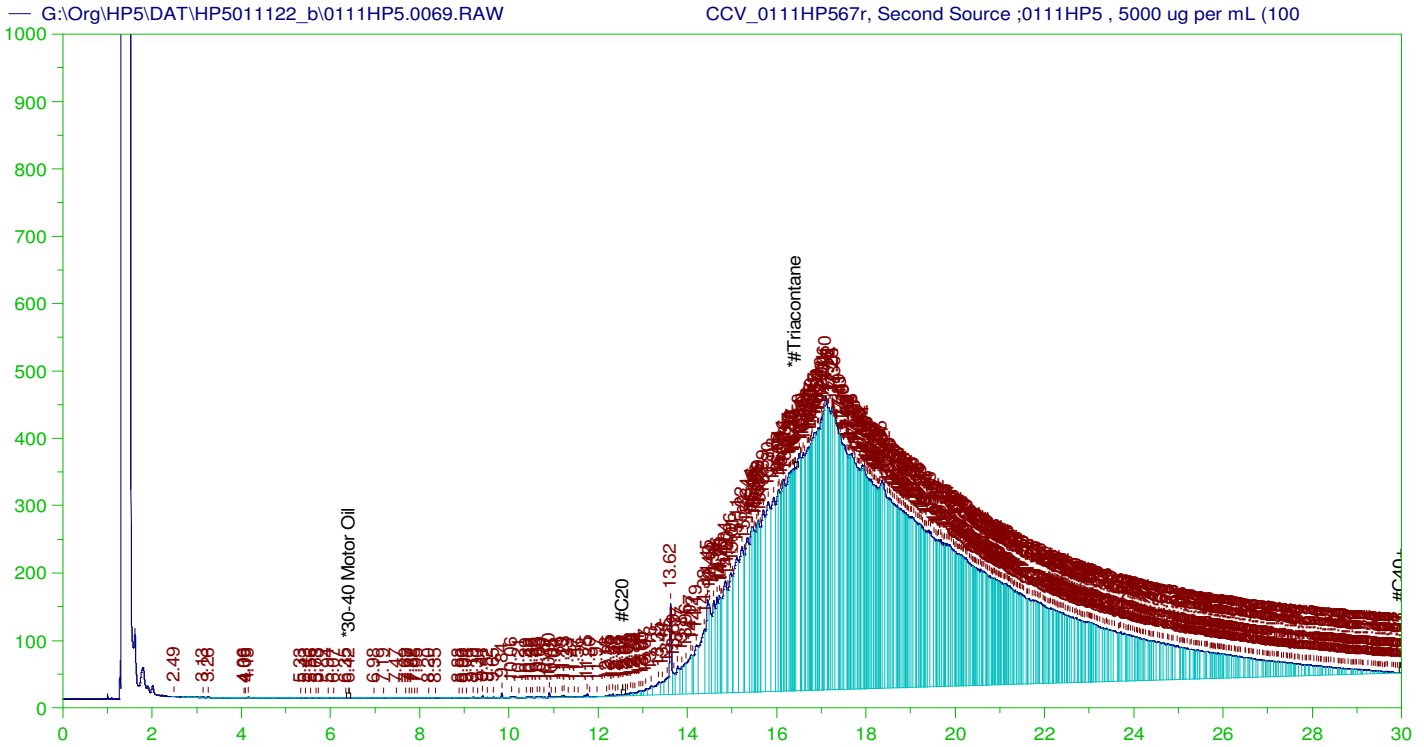
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V68
 Raw File: G:\org\HP5\DAT\HP5011122_b\0111HP5.0068.RAW
 Date & Time Acquired: 1/14/2022 7:35:26 AM
 Method File: G:\Org\HP5\Methods\DR_8015-IC-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO211102IC.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 31353.19
 Rt range for Diesel Range Organics: 6.5 to 15.82

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.833 | 200. | . | - |
| *1-Chlorooctadecane | 29.833 | 200. | . | - |

DRO Area:178261.1 DRO Amount: 5.685582
 TEH Area:1513925 TEH Amount: 48.28614



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0111HP567r, Second Source ;0111HP5 , 5000 ug per mL (100
 Raw File: G:\Org\HP5\DAT\HP5011122_b\0111HP5.0069.RAW
 Date & Time Acquired: 1/14/2022 8:18:14 AM
 Method File: G:\Org\HP5\Methods\DC_ORO-59-BA-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.51 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|------|---|
| *#Triacontane | 16.408 | 500. | 23.958 | 4.79 | - |

RRO Area:1.341574E+08 RRO AMOUNT: 5076.999

CONTINUING CALIBRATION REPORT: G:\Org\HP5\DAT\HP5011122_b\0111HP5.0069.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .033 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.408 | 200. | 23.958 | 11.98 | 75-125 |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|----------------|--|---|--|--------|------------|----------|----|--------|---|
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.25r | DCM-Baseline Check-V25 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.26r | Marker 0111HP526r, DRO :0111HP5 , DRO220111A | G:\org\HP5\Methods\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.27r | DCM-Baseline Check-V27 | G:\Org\HP5\Methods\DR_8015-HS-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.28r | CCV_0111HP528r, CAL1 :0111HP5 , 2 ug per mL Triacotane (10 uL of Cal3 + 990 uL DCM(14647) | G:\Org\HP5\Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.29r | CCV_0111HP529r, CAL2 :0111HP5 , 50 ug per mL Triacotane (100 uL Cal4 + 900 uL of DCM(14647) | G:\Org\HP5\Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.30r | CCV_0111HP530r, CAL3 :0111HP5 , 200 ug per mL Triacotane (100uL of Cal5 + 400 uL DCM(14647) | G:\Org\HP5\Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.31r | CCV_0111HP531r, CAL4 :0111HP5 , 500 ug per mL Triacotane (250uL of Cal5 + 250 uL DCM(14647) | G:\Org\HP5\Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.32r | DCM-Baseline Check-V33 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.50r | CCV_0111HP550r, CAL5 :0111HP5 , 1000 ug per mL Triacotane (DRO211006A) | G:\Org\HP5\Methods\DS_ORO-BA-L#.MET | 1 | 1 | 1 | 1 | 0 | Surrogates are integrated using a valley to valley integration Set Baseline All Valley on at 16.04 minutes. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.51r | DCM-Baseline Check-V51 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.52r | DCM-Baseline Check-V52 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.53r | Marker 0111HP553r, DRO :0111HP5 , DRO220111A | G:\org\HP5\Methods\CSC210212.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.54r | DCM-Baseline Check-V54 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.55r | CCV_0111HP555r, CAL1 :0111HP5 , 150 ug per mL Oil (10 uL of Cal4 + 990 uL DCM(14647) | G:\Org\HP5\Methods\DC_ORO-55-BA-L%.xls | 1 | 1 | 1 | 1 | 0 | The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Assigned Set Baseline Now at 25 minutes. Y-Scale adjusted. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.56r | DCM-Baseline Check-V56 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.57r | CCV_0111HP557r, CAL2 :0111HP5 , 1000 ug per mL Oil (200 uL of Cal 3 +800 uL DCM(14647) | G:\Org\HP5\Methods\DC_ORO-57-BA-L%.xls | 1 | 1 | 1 | 1 | 0 | The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.58r | DCM-Baseline Check-V58 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.59r | CCV_0111HP559r, CAL3 :0111HP5 , 5000 ug per mL Oil (100 uL of DRO211118A + 900 uL DCM(14647) | G:\Org\HP5\Methods\DC_ORO-59-BA-L%.xls | 1 | 1 | 1 | 1 | 0 | The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.60r | DCM-Baseline Check-V60 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.61r | CCV_0111HP561r, CAL4 :0111HP5 , 15000 ug per mL Oil (200 uL of CAL5 + 200 uL DCM(14647) | G:\Org\HP5\Methods\DC_ORO-61-BA-L%.xls | 1 | 1 | 1 | 1 | 0 | The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.62r | DCM-Baseline Check-V62 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.63r | CCV_0111HP563r, CAL5 :0111HP5 , 30000 ug per mL Oil (600 uL of DRO211118A + 400 uL of DCM) | G:\Org\HP5\Methods\DC_ORO-BA-L%.xls | 1 | 1 | 1 | 1 | 0 | The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted. |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.64r | DCM-Baseline Check-V64 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.65r | DCM-Baseline Check-V65 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.66r | DCM-Baseline Check-V66 | G:\Org\HP5\Methods\DR_8015-HE-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.68r | DCM-Baseline Check-V68 | G:\Org\HP5\Methods\DR_8015-IC-LEXP.met | 1 | 1 | 1 | 1 | 0 | No Integrations |
| | G:\org\HP5\DAT\HP5011122_b\0111HP5.69r | CCV_0111HP567r, Second Source :0111HP5 , 5000 ug per mL (100uL of DRO210902A + 900uL DCM(14647) | G:\Org\HP5\Methods\DC_ORO-59-BA-L%.xls | 1 | 1 | 1 | 1 | 0 | The integration of TEH(Oil Range)is the hydrocarbon response with reference to the baseline. Y-Scale adjusted. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.02.11 10:29:31 -07:00

PREP BATCH REPORT

Prep Code: **HC-3520-DRO**
 Prep Batch **164025** Prep Temp **NA °C**

Technician: **Aloysia L. Noble**
 Batch Units: **ML**

Prep Start Date: **2/24/2022 4:20:19 PM**
 Prep End Date: **2/25/2022 3:17:00 PM**

| Sample ID | Matrix | pH | Initial Samp Amt | Sol Added | Sol Recovered | Final Vol (mL) | Factor | Balance | Prep Start Date | Prep End Date |
|--|--------------|----|------------------|-----------|---------------|----------------|----------|---------|-----------------|---------------|
| MB-164025 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 2/24/2022 | 2/25/2022 |
| Start time: 4:33PM, 2/24/2022. End time: 2/25/2022 at 10:45 AM. IDOC for ALN supervised by AMN. SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| LCS-164025 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 2/24/2022 | 2/25/2022 |
| All bottles were completely used, defaced and disposed of on 2/24/2022. SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| LCSD-164025 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 2/24/2022 | 2/25/2022 |
| SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| LCS-RRO-164025 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 2/24/2022 | 2/25/2022 |
| SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| LCSD-RRO-164025 | | | 1000 | 0 | 0 | 1.00 | 0.001 | | 2/24/2022 | 2/25/2022 |
| SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| B22021627-001D | Ground Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 2/24/2022 | 2/25/2022 |
| Bottle 1/2: clear no sediment. SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| B22021627-001DMS | Ground Water | 2 | 1050 | 0 | 0 | 1.00 | 0.000952 | | 2/24/2022 | 2/25/2022 |
| Bottle 2/2: clear no sediment. SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| B22021627-006D | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 2/24/2022 | 2/25/2022 |
| Bottle 1/2: clear no sediment. SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| B22021627-006DMS-RRO | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 2/24/2022 | 2/25/2022 |
| Bottle 2/2: clear no sediment. SGT on remaining samples by ALN on 3/1/2022. | | | | | | | | | | |
| B22021627-011D | Ground Water | 2 | 1060 | 0 | 0 | 1.00 | 0.000943 | | 2/24/2022 | 2/25/2022 |
| Bottle 1/2: clear no sediment. | | | | | | | | | | |

| Number | Reagent Name | Exp Date |
|--------|-----------------------------------|------------|
| 11 | Carbon Filter Water | 1/1/2023 |
| 13379 | PTFE Boiling Stones 27463755 | 12/30/2025 |
| 14206 | pH-indicator Strips 0-14 HC160347 | 8/26/2026 |
| 14719 | 4ML, Amber Vial, 20220104 | 1/4/2027 |
| 14828 | Dichloromethane ED092 | 12/12/2023 |

| Spk ID | Spike Name | SampType | AmtAdd | Exp Date |
|--------------------|------------------------------------|-------------------|--------|------------|
| FP220217 14244 | DCM RINSED FILTER PAPER | all | 1 | 4/6/2026 |
| Sulfate 02/15/22 (| Baked Sodium Sulfate | all | Varies | 11/29/2026 |
| DRO220222B | Triacotane SURR 1000 ug/mL | All except LCS/D, | 100 uL | 11/23/2026 |
| DRO211213A | OTP only SURR 2000 ug/mL | All except RRO-L | 100 uL | 9/30/2024 |
| DRO220106C | #2 Diesel in Acetone 150,000 ug/mL | LCS/D, MS | 100 uL | 11/5/2023 |
| DRO220112A | 50,000 ug/mL Oil Std for RRO-In D | LCS/D-RRO, MS- | 100 uL | 9/1/2026 |
| SG220222(13376) | Baked Silica Gel | SGT | 5g | 2/28/2030 |

Energy Laboratories Inc

ANALYTICAL RUN Summary

01-Mar-22

Run ID GCFID-HP5-B_220228A

| |
|---|
| Run Start Date: 2/28/2022 |
| Analyst: Ann Nebel |
| Ical: |
| Column ID: |
| Comments: DRO-8015-ICAL information is in Index GCFID-HP5-B_220111A 8015C OIL range calibration GCFID-HP5-B_220111C. |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|------------|--|------------|-----------|-------------|------------|----------|-----------------|
| DRO220128B | Carbon Scan STD-Marker | | | | | MARKER | 7/13/2026 |
| DRO220201A | 5,000 ug/mL RRO CCV 200 ug/mL Triacotane | | | | | CCV-RRO | 4/6/2026 |
| DRO220211A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 15060764 | CCV_0228HP50 | HC-8015-DRO- | CCV | | 2/28/2022 9:54:5 | 1 | R375375 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 4.71791064 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 94% | 80 | 120 | 0% | |
| n-Triacotane | S | mg/L | | 0.174449 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 87% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------------------------------|--------------|--------------|------------|-----------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 15060765 | CCV_0228HP50 | HC-8015-DRO- | CCV | | 2/28/2022 10:37: | 1 | R375375 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 16.1797 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 108% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.74287 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 112% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2063879 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 103% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------|------------|--------------|------------|---------|------------------|-------|----------|--------------|--------|--------|--------|------|-----|------|------|---|
| 15060766 | LCS-164025 | HC-8015-DRO- | LCS-DOD | | 2/28/2022 12:45: | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-------------------------------------|---------------|--------------|------------|-----------|------------------|--------|----------|--------------|-----------|----------|--------|------|-----|------|------|---|
| 15060766 | LCS-164025 | HC-8015-DRO- | LCS-DOD | | 2/28/2022 12:45: | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 13.50777 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 90% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 14.41199 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 96% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2088965 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 104% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060767 | LCSD-164025 | HC-8015-DRO- | LCSD-DOD | | 2/28/2022 1:28:1 | 1 | 164025 | 2/24/2022 4: | 0 | 2E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 13.93985 | | 15 | 0 | 13.50777 | 0.0389 | 0.3 | 0 | 93% | 36 | 132 | 3% | |
| Total Extractable Hydrocarbons | A | mg/L | | 14.87349 | | 15 | 0 | 14.41199 | 0.0749 | 0.3 | 50 | 99% | 60 | 132 | 3% | |
| o-Terphenyl | S | mg/L | | 0.2100128 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060768 | MB-164025 | HC-8015-DRO- | MBLK | | 2/28/2022 2:11:0 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0389 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0749 | 0.15 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.097 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 97% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2095418 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 105% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060769 | B22021627-011 | HC-8015-DRO- | SAMP | | 2/28/2022 2:54:0 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0366827 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (C24 to C40) | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0706307 | 0.3 | 50 | 0% | 0 | 0 | 0% | U |
| n-Triacontane | S | mg/L | | 0.091 | | 0.0943 | 0 | 0 | 0.0003168 | 0.001886 | 0 | 97% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1991884 | | 0.1886 | 0 | 0 | 0.0004045 | 0.002 | 0 | 106% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-------------------------------------|---------------|--------------|------------|------------|------------------|--------|-----------|--------------|-----------|----------|--------|------|-----|------|------|---|
| 15060770 | B22021627-001 | HC-8015-DRO- | SAMP | | 2/28/2022 3:37:0 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 0.04905796 | | 0 | 0 | 0 | 0.0370328 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Oil Range Hydrocarbons (C24 to C40) | A | mg/L | | 0.18298429 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 0.2584189 | | 0 | 0 | 0 | 0.0713048 | 0.3 | 50 | 0% | 0 | 0 | 0% | J |
| n-Triacontane | S | mg/L | | 0.087 | | 0.0952 | 0 | 0 | 0.0003199 | 0.001904 | 0 | 91% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1711771 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 90% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060771 | B22021627-001 | HC-8015-DRO- | MS-DOD | | 2/28/2022 4:19:5 | 1 | 164025 | 2/24/2022 4: | 2E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 11.93541 | | 14.28 | 0.049058 | 0 | 0.0370328 | 0.3 | 0 | 83% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 12.91212 | | 14.28 | 0.2584189 | 0 | 0.0713048 | 0.3 | 50 | 89% | 60 | 132 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1680075 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 88% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060772 | B22021627-006 | HC-8015-DRO- | SAMP | | 2/28/2022 5:46:2 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 1.121501 | | 0 | 0 | 0 | 0.0366827 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (C24 to C40) | A | mg/L | | 0.1616533 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons | A | mg/L | | 1.279272 | | 0 | 0 | 0 | 0.0706307 | 0.3 | 50 | 0% | 0 | 0 | 0% | |
| n-Triacontane | S | mg/L | | 0.08 | | 0.0943 | 0 | 0 | 0.0003168 | 0.001886 | 0 | 85% | 50 | 150 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1735743 | | 0.1886 | 0 | 0 | 0.0004045 | 0.002 | 0 | 92% | 56 | 125 | 0% | |
| TEH(Oil Range) | X | mg/L | | 0.43692219 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060773 | B22021627-006 | HC-8015-DRO- | MS-DOD | | 2/28/2022 6:29:3 | 1 | 164025 | 2/24/2022 4: | 2E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 5.07925415 | | 4.715 | 0.4369222 | 0 | 0.0828897 | 0.3 | 0 | 98% | 41 | 113 | 0% | |
| n-Triacontane | S | mg/L | | 0.087 | | 0.0943 | 0 | 0 | 0.0003168 | 0.002 | 0 | 92% | 50 | 150 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------------------------------|--------------|--------------|------------|------------|------------------|-------|----------|--------------|----------|--------|--------|------|-----|------|------|---|
| 15060774 | LCS-RRO-1640 | HC-8015-DRO- | LCS-DOD | | 2/28/2022 7:12:5 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 5.28568840 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 106% | 41 | 113 | 0% | |
| n-Triacontane | S | mg/L | | 0.088 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 88% | 50 | 150 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060775 | LCSD-RRO-164 | HC-8015-DRO- | LCSD-DOD | | 2/28/2022 7:56:0 | 1 | 164025 | 2/24/2022 4: | 0 | 2E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 5.633986 | | 5 | 0 | 5.2856884 | 0.0879 | 0.3 | 0 | 113% | 41 | 113 | 6% | |
| n-Triacontane | S | mg/L | | 0.095 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 95% | 50 | 150 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060776 | CCV_0228HP52 | HC-8015-DRO- | CCV | | 2/28/2022 9:22:3 | 1 | R375375 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 4.8416709 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 97% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1779362 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 89% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15060777 | CCV_0228HP52 | HC-8015-DRO- | CCV | | 2/28/2022 10:05: | 1 | R375375 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.53818 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 104% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.07354 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 107% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1979716 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 99% | 80 | 120 | 0% | |

Energy Laboratories Inc

ANALYTICAL RUN Summary

02-Mar-22

Run ID GCFID-HP5-B_220301A

| |
|---|
| Run Start Date: 3/1/2022 |
| Analyst: Ann Nebel |
| Ical: |
| Column ID: |
| Comments: DRO-8015-ICAL information is in Index GCFID-HP5-B_220111A 8015C OIL range calibration GCFID-HP5-B_220111C. |

| Std ID | Std Name | Std Amount | Std Units | Samp Amount | Samp Units | SampType | Expiration Date |
|------------|---|------------|-----------|-------------|------------|----------|-----------------|
| DRO220128B | Carbon Scan STD-Marker | | | | | MARKER | 7/13/2026 |
| DRO220201A | 5,000 ug/mL RRO CCV 200 ug/mL Triacontane | | | | | CCV-RRO | 4/6/2026 |
| DRO220211A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |
| DRO220301A | 8015 CCV-15,000ug/mL + 200 OTP | | | | | CCV-DRO | 4/30/2023 |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|----------------|--------------|--------------|------------|------------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 15062458 | CCV_0301HP50 | HC-8015-DRO- | CCV | | 3/1/2022 11:33:3 | 1 | R375439 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 4.82313477 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1797607 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 90% | 80 | 120 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------------------------------|--------------|--------------|------------|-----------|------------------|-------|----------|-----------|----------|--------|--------|------|-----|------|------|---|
| 15062459 | CCV_0301HP50 | HC-8015-DRO- | CCV | | 3/1/2022 12:16:0 | 1 | R375439 | | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 15.85165 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 106% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 16.40802 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 109% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.2010359 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 101% | 80 | 120 | 0% | |

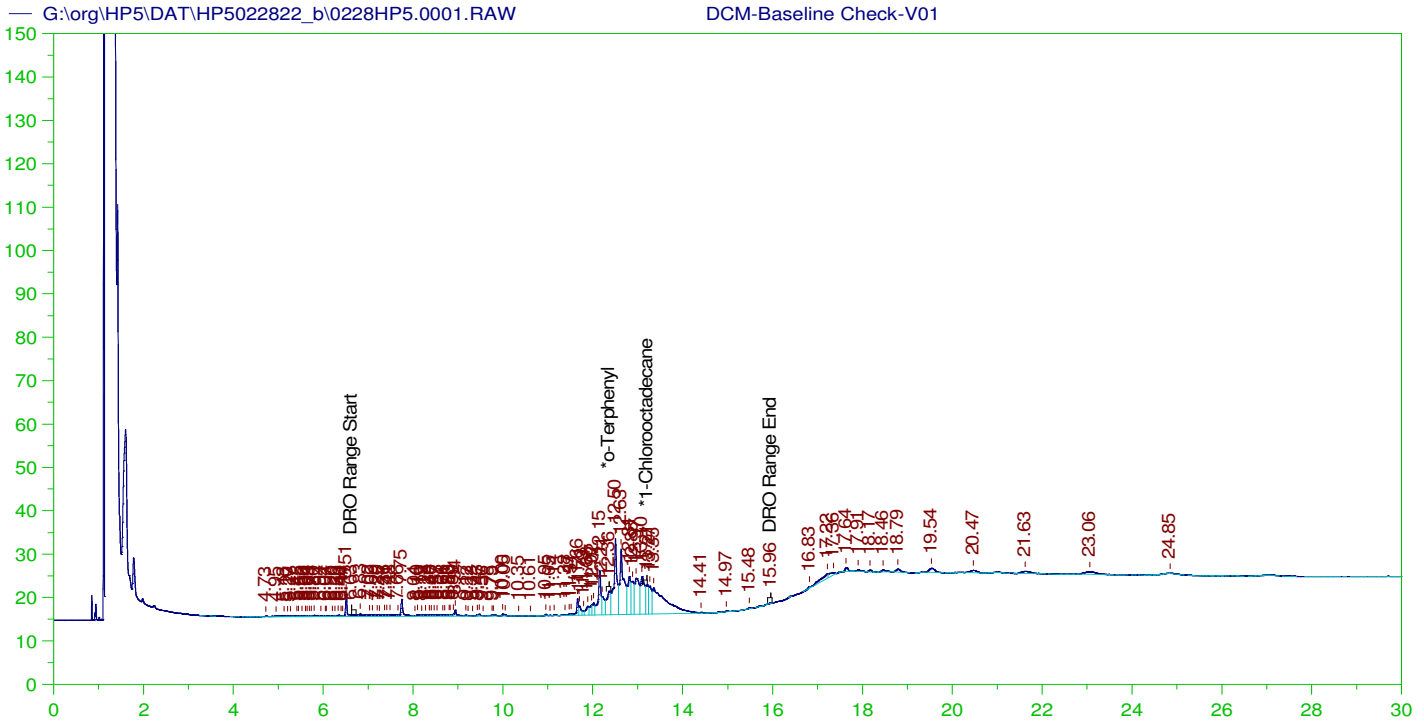
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-------------------------------------|---------------|--------------|------------|------------|------------------|--------|----------|--------------|-----------|----------|--------|------|-----|------|------|---|
| 15062460 | LCS-164025 | HC-8015-DRO- | LCS-DOD | | 3/1/2022 2:23:19 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 12.06676 | | 15 | 0 | 0 | 0.0281 | 0.3 | 0 | 80% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 12.79833 | | 15 | 0 | 0 | 0.0357 | 0.3 | 0 | 85% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1951009 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062461 | LCSD-164025 | HC-8015-DRO- | LCSD-DOD | | 3/1/2022 3:05:57 | 1 | 164025 | 2/24/2022 4: | 0 | 2E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 11.46638 | | 15 | 0 | 12.06676 | 0.0281 | 0.3 | 0 | 76% | 36 | 132 | 5% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 12.1472 | | 15 | 0 | 12.79833 | 0.0357 | 0.3 | 0 | 81% | 60 | 132 | 5% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1831279 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 92% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062462 | MB-164025 | HC-8015-DRO- | MBLK | | 3/1/2022 3:48:23 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0281 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0879 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0357 | 0.15 | 0 | 0% | 0 | 0 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.088 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 88% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1959993 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 98% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062463 | B22021627-001 | HC-8015-DRO- | SAMP | | 3/1/2022 4:30:48 | 1 | 164025 | 2/24/2022 4: | 0 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0267512 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0 | | 0 | 0 | 0 | 0.0836808 | 0.3 | 0 | 0% | 0 | 0 | 0% | U |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 0.08306444 | | 0 | 0 | 0 | 0.0339864 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| n-Triacontane (SGT) | S | mg/L | | 0.084 | | 0.0952 | 0 | 0 | 0.0003199 | 0.001904 | 0 | 88% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1709162 | | 0.1904 | 0 | 0 | 0.0004084 | 0.001904 | 0 | 90% | 56 | 125 | 0% | |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|-------------------------------------|---------------|--------------|------------|------------|------------------|--------|-----------|--------------|-----------|----------|--------|------|-----|------|------|---|
| 15062464 | B22021627-001 | HC-8015-DRO- | MS-DOD | | 3/1/2022 5:13:36 | 1 | 164025 | 2/24/2022 4: | 2E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 10.78516 | | 14.28 | 0 | 0 | 0.0267512 | 0.3 | 0 | 76% | 36 | 132 | 0% | |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 11.4496 | | 14.28 | 0.0830644 | 0 | 0.0339864 | 0.3 | 0 | 80% | 60 | 132 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1620341 | | 0.1904 | 0 | 0 | 0.0004084 | 0.002 | 0 | 85% | 56 | 125 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062465 | B22021627-006 | HC-8015-DRO- | SAMP | | 3/1/2022 6:39:01 | 1 | 164025 | 2/24/2022 4: | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (SGT-C10 to | A | mg/L | | 0.9478972 | | 0 | 0 | 0 | 0.0264983 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| Oil Range Hydrocarbons (SGT-C24 t | A | mg/L | | 0.11543720 | | 0 | 0 | 0 | 0.0828897 | 0.3 | 0 | 0% | 0 | 0 | 0% | J |
| Total Extractable Hydrocarbons (SGT | A | mg/L | | 1.055977 | | 0 | 0 | 0 | 0.0336651 | 0.3 | 0 | 0% | 0 | 0 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.072 | | 0.0943 | 0 | 0 | 0.0003168 | 0.001886 | 0 | 76% | 50 | 150 | 0% | |
| o-Terphenyl (SGT) | S | mg/L | | 0.1706662 | | 0.1886 | 0 | 0 | 0.0004045 | 0.001886 | 0 | 90% | 56 | 125 | 0% | |
| TEH (SGT-Oil Range) | X | mg/L | | 0.35280085 | | 0 | 0 | 0 | 0.0828897 | 0.2829 | 0 | 0% | 0 | 0 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062466 | B22021627-006 | HC-8015-DRO- | MS-DOD | | 3/1/2022 7:21:49 | 1 | 164025 | 2/24/2022 4: | 2E+07 | 0 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH (SGT-Oil Range) | A | mg/L | | 4.80636978 | | 4.715 | 0.3528008 | 0 | 0.0828897 | 0.3 | 0 | 94% | 41 | 113 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.075 | | 0.0943 | 0 | 0 | 0.0003168 | 0.002 | 0 | 80% | 50 | 150 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062467 | LCS-RRO-1640 | HC-8015-DRO- | LCS-DOD | | 3/1/2022 8:47:46 | 1 | 164025 | 2/24/2022 4: | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH (SGT-Oil Range) | A | mg/L | | 5.2780509 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 106% | 41 | 113 | 0% | |
| n-Triacontane (SGT) | S | mg/L | | 0.084 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 84% | 50 | 150 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062468 | LCSD-RRO-164 | HC-8015-DRO- | LCSD-DOD | | 3/1/2022 9:30:49 | 1 | 164025 | 2/24/2022 4: | | 0 | 2E+07 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |

| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
|------------------------------------|--------------|--------------|------------|------------|------------------|-------|----------|--------------|----------|--------|--------|------|-----|------|------|---|
| 15062468 | LCSD-RRO-164 | HC-8015-DRO- | LCSD-DOD | | 3/1/2022 9:30:49 | 1 | 164025 | 2/24/2022 4: | 0 | 2E+07 | | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH (SGT-Oil Range) | A | mg/L | | 5.21193886 | | 5 | 0 | 5.2780509 | 0.0879 | 0.3 | 0 | 104% | 41 | 113 | 1% | |
| n-Triacontane (SGT) | S | mg/L | | 0.08 | | 0.1 | 0 | 0 | 0.000336 | 0.002 | 0 | 80% | 50 | 150 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062469 | CCV_0301HP52 | HC-8015-DRO- | CCV | | 3/1/2022 10:56:5 | 1 | R375439 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| TEH(Oil Range) | A | mg/L | | 4.81556006 | | 5 | 0 | 0 | 0.0879 | 0.3 | 0 | 96% | 80 | 120 | 0% | |
| n-Triacontane | S | mg/L | | 0.1778209 | | 0.2 | 0 | 0 | 0.000336 | 0.002 | 0 | 89% | 80 | 120 | 0% | |
| Seq No | Lab ID | Test Code | Sample Typ | File ID | Analysis Date | DF | Batch ID | Prep Date | SPKref | RPDref | pmoist | | | | | |
| 15062470 | CCV_0301HP52 | HC-8015-DRO- | CCV | | 3/1/2022 11:40:0 | 1 | R375439 | | | 0 | 0 | | | | | |
| Analyte | T | Units | RAW | Final | Text | Spike | SPKref | RPDref | MDL | PQL | UQL | %REC | LOW | HIGH | %RPD | Q |
| Diesel Range Organics (C10 to C24) | A | mg/L | | 13.53839 | | 15 | 0 | 0 | 0.0389 | 0.3 | 0 | 90% | 80 | 120 | 0% | |
| Total Extractable Hydrocarbons | A | mg/L | | 13.99932 | | 15 | 0 | 0 | 0.0749 | 0.3 | 50 | 93% | 80 | 120 | 0% | |
| o-Terphenyl | S | mg/L | | 0.1840934 | | 0.2 | 0 | 0 | 0.000429 | 0.002 | 0 | 92% | 80 | 120 | 0% | |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|----------------|--|---|--|--------|------------|----------|----|--------|
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.03r | MARKER_0228HP503r_CSCAN_0228HP5 , DRO220128B | G:\org\HP5\Methods\CSC220228.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.04r | CCV_0228HP504r, RRO ;0228HP5 , DRO220201A | G:\Org\HP5\Methods\DC_ORO-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.05r | CCV_0228HP505r, DRO 8015;0228HP5 , DRO220211A | G:\Org\HP5\Methods\DC_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.07r | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.08r | LCS-164025 ;0228HP5 , | G:\Org\HP5\Methods\D3_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.09r | LCSD-164025 ;0228HP5 , | G:\Org\HP5\Methods\D3_8015-022809-JFb-L%.met G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.10r | MB-164025 ;0228HP5 , | G:\Org\HP5\Methods\DR_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DR_OROS-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.11r | B22021627-011D ;0228HP5 , \$HC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DR_OROS-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1060 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.12r | B22021627-001D ;0228HP5 , \$HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DS_OROS-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1050 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.13r | B22021627-001DMS ;0228HP5 , | G:\Org\HP5\Methods\D3_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1050 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.14r | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.15r | B22021627-006D ;0228HP5 , \$HC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-022815-JFb-L%.met G:\Org\HP5\Methods\DS_OROS-022815-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1060 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.16r | B22021627-006DMS-RRO ;0228HP5 , | G:\Org\HP5\Methods\D3_ORO-022816-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1060 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.17r | LCS-RRO-164025 ;0228HP5 , | G:\Org\HP5\Methods\D3_ORO-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.18r | LCSD-RRO-164025 ;0228HP5 , | G:\Org\HP5\Methods\D3_ORO-022816-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.19r | MARKER_0228HP519r_CSCAN_0228HP5 , DRO220128B | G:\org\HP5\Methods\CSC220228.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.20r | CCV_0228HP520r, RRO ;0228HP5 , DRO220201A | G:\Org\HP5\Methods\DC_ORO-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5022822_b\0228HP5.21r | CCV_0228HP521r, DRO 8015;0228HP5 , DRO220211A | G:\Org\HP5\Methods\DC_8015-C24-JFb-L%.met G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met | 1 | 1 | 1 | 1 | 0 |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID |
|----------------|---------------------------------------|--|---|--------|------------|----------|----|--------|
| | G:\org\HP5\DAT\HP5030122_b0301HP5.01r | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.02r | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.03r | MARKER_0301HP503r, CSCAN ;0301HP5_DRO220128B | G:\org\HP5\Methods\CSC220301.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.04r | CCV_0301HP504r, RRO ;0301HP5 , DRO220201A | G:\Org\HP5\Methods\DC_ORO-BG-L%.MET | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.05r | CCV_0301HP505r, DRO 8015;0301HP5 , DRO220211A | G:\Org\HP5\Methods\DS_ORO-BG-L%.MET | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.06r | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DC_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.07r | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.08r | LCS-164025 ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.09r | LCS-164025 ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.10r | MB-164025 ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24-JG-L%.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.11r | B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met | 1050 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.12r | B22021627-001DMS ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met | 1050 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.13r | DCM-Baseline Check-V13 | G:\Org\HP5\Methods\DR_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.14r | B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT | G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met | 1060 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.15r | B22021627-006DMS-RRO ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met | 1060 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.16r | DCM-Baseline Check-V16 | G:\Org\HP5\Methods\DR_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.17r | LCS-RRO-164025 ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.18r | LCS-RRO-164025 ;0301HP5 , SGT | G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met | 1000 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.19r | MARKER_0301HP519r, CSCAN ;0301HP5_DRO220128B | G:\org\HP5\Methods\CSC220301.met | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.20r | CCV_0301HP520r, RRO ;0301HP5 , DRO220201A | G:\Org\HP5\Methods\DC_ORO-BG-L%.MET | 1 | 1 | 1 | 1 | 0 |
| | G:\org\HP5\DAT\HP5030122_b0301HP5.21r | CCV_0301HP521r, DRO ;0301HP5 , DRO220301A | G:\Org\HP5\Methods\DS_ORO-BG-L%.MET | 1 | 1 | 1 | 1 | 0 |
| | | | G:\Org\HP5\Methods\DC_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 0 |
| | | | G:\Org\HP5\Methods\DS_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 0 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

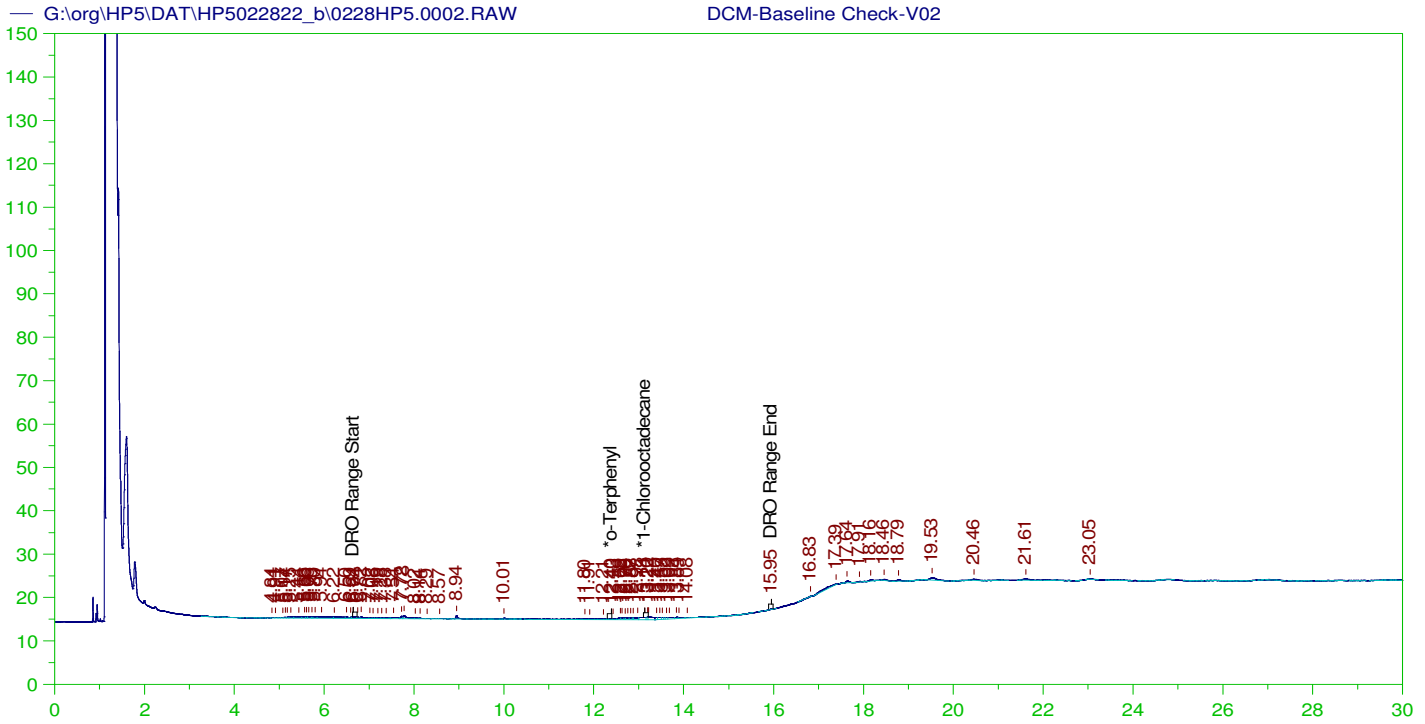
Sample Name: DCM-Baseline Check-V01
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0001.RAW
 Date & Time Acquired: 2/28/2022 7:46:55 AM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|------|---|
| *o-Terphenyl | 12.365 | 200. | .918 | .46 | - |
| *1-Chlorooctadecane | 13.207 | 200. | .763 | .38 | - |

DRO Area: 734385.5 DRO Amount: 22.47521
 TEH Area: 854316.6 TEH Amount: 26.14559



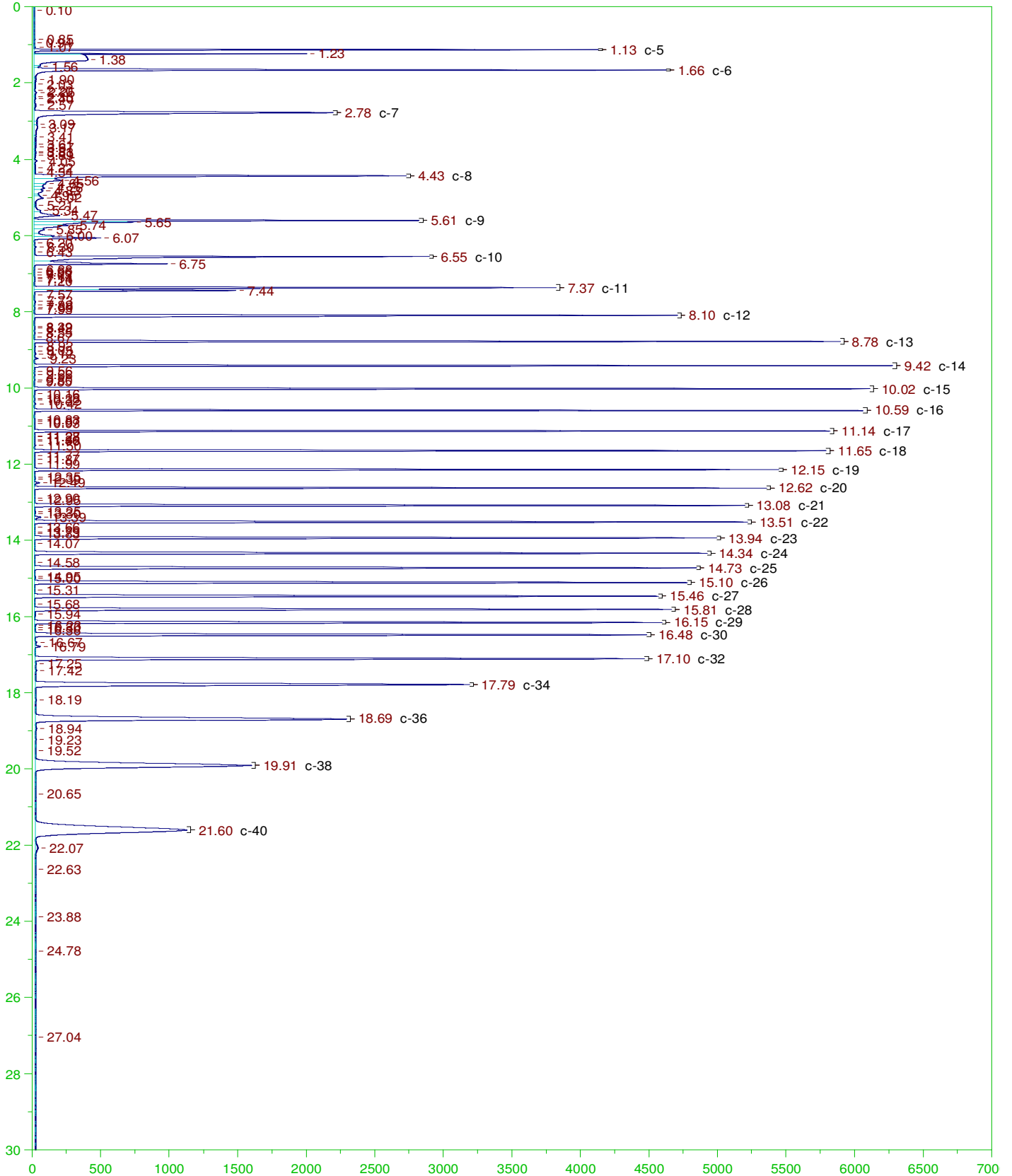
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

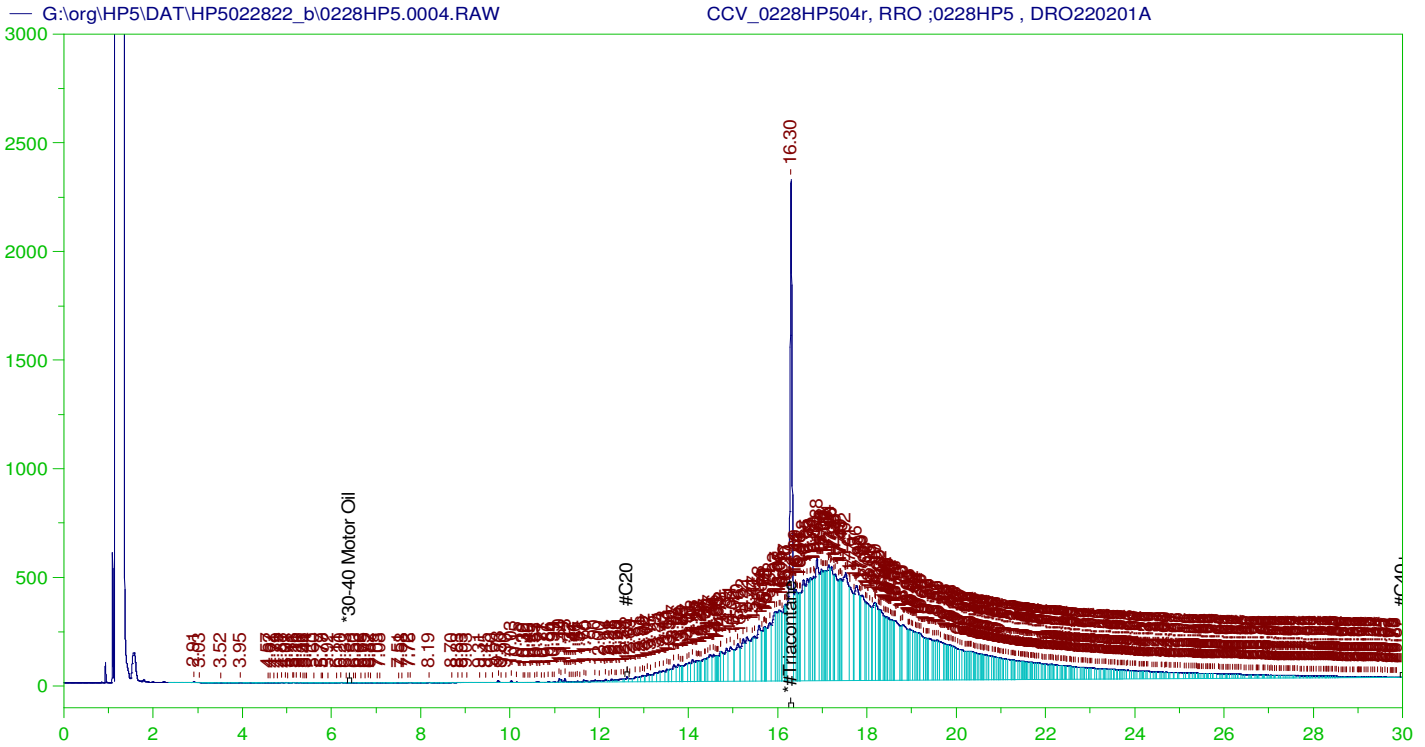
Sample Name: DCM-Baseline Check-V02
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0002.RAW
 Date & Time Acquired: 2/28/2022 8:29:29 AM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|------|---|
| *o-Terphenyl | 12.396 | 200. | .027 | .01 | - |
| *1-Chlorooctadecane | 13.14 | 200. | .114 | .06 | - |

DRO Area:66567.78 DRO Amount: 2.037247
 TEH Area:126754.4 TEH Amount: 3.879205





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0228HP504r, RRO ;0228HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0004.RAW
 Date & Time Acquired: 2/28/2022 9:54:59 AM
 Method File: G:\Org\HP5\Methods\DC_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.298 | 500. | 290.935 | 58.19 | - |

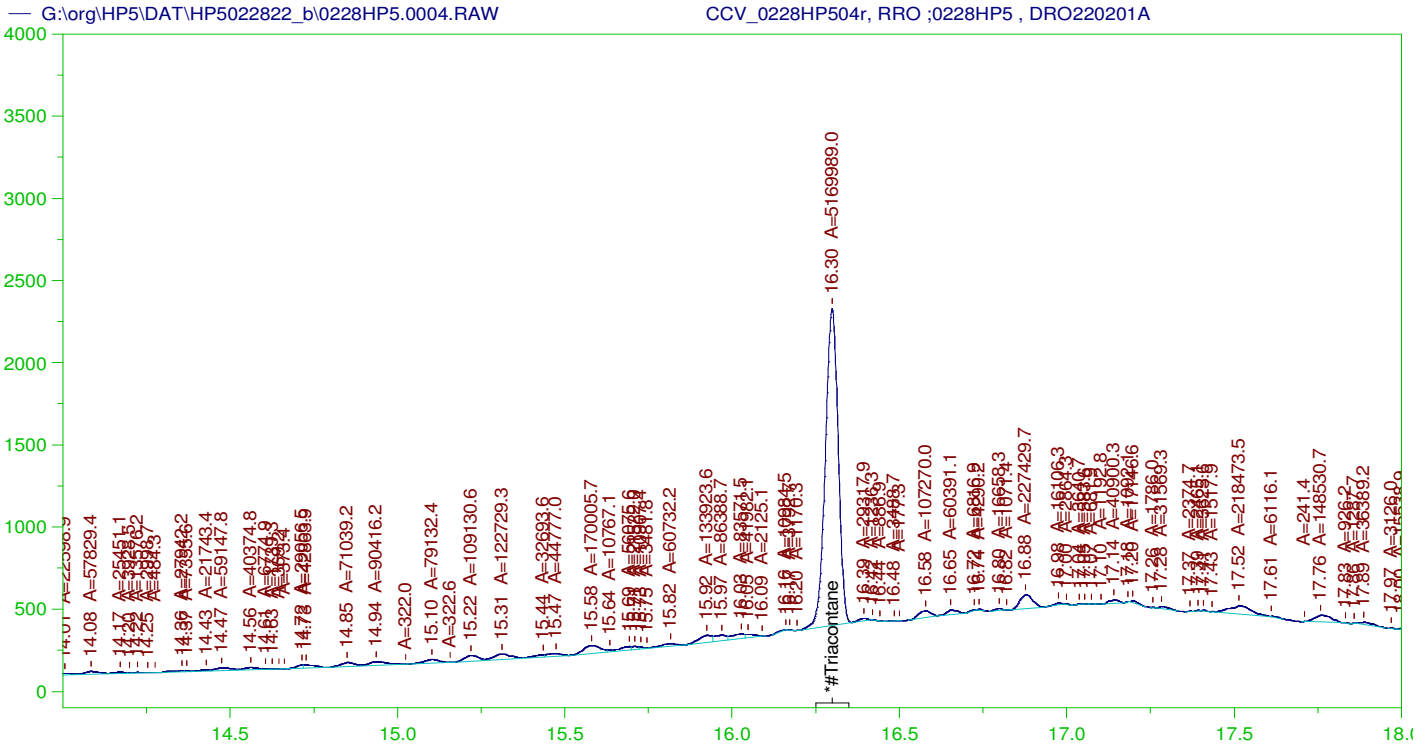
RRO TEH(Oil Range) Area:1.246687E+08 RRO TEH(Oil Range) AMOUNT: 4717.911

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0004.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|--------|--------|
| *#Triacontane | 16.298 | 200. | 290.935 | 145.47 | 75-125 |

AMN 03/01/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0228HP504r, RRO ;0228HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0004.RAW
 Date & Time Acquired: 2/28/2022 9:54:59 AM
 Method File: G:\Org\HP5\Methods\DS_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.57 to 30.05

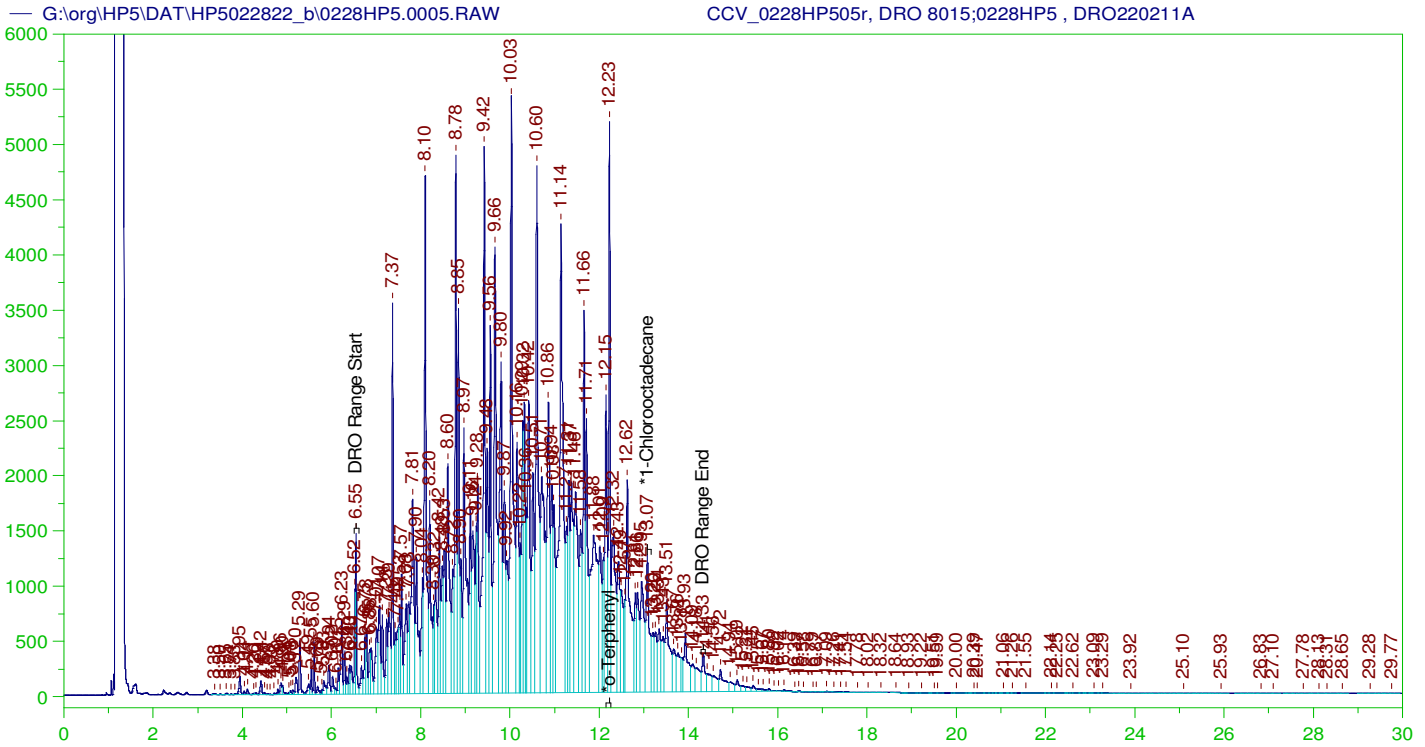
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.298 | 500. | 174.449 | 34.89 | - |

RRO Area:3296608 RRO AMOUNT: 124.7555

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0004.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | . | 75-125 | |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.298 | 200. | 174.449 | 87.22 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0228HP505r, DRO 8015;0228HP5 , DRO220211A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0005.RAW
 Date & Time Acquired: 2/28/2022 10:37:42 AM
 Method File: G:\Org\HP5\Methods\DC_8015-C24-JFb-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 12.226 | 200. | 345.408 | 172.7 |
| *1-Chlorooctadecane | 13.073 | 200. | 173.389 | 86.69 |

DRO Area: 5.286776E+08 DRO Amount: 16179.7
 TEH Area: 5.470795E+08 TEH Amount: 16742.88

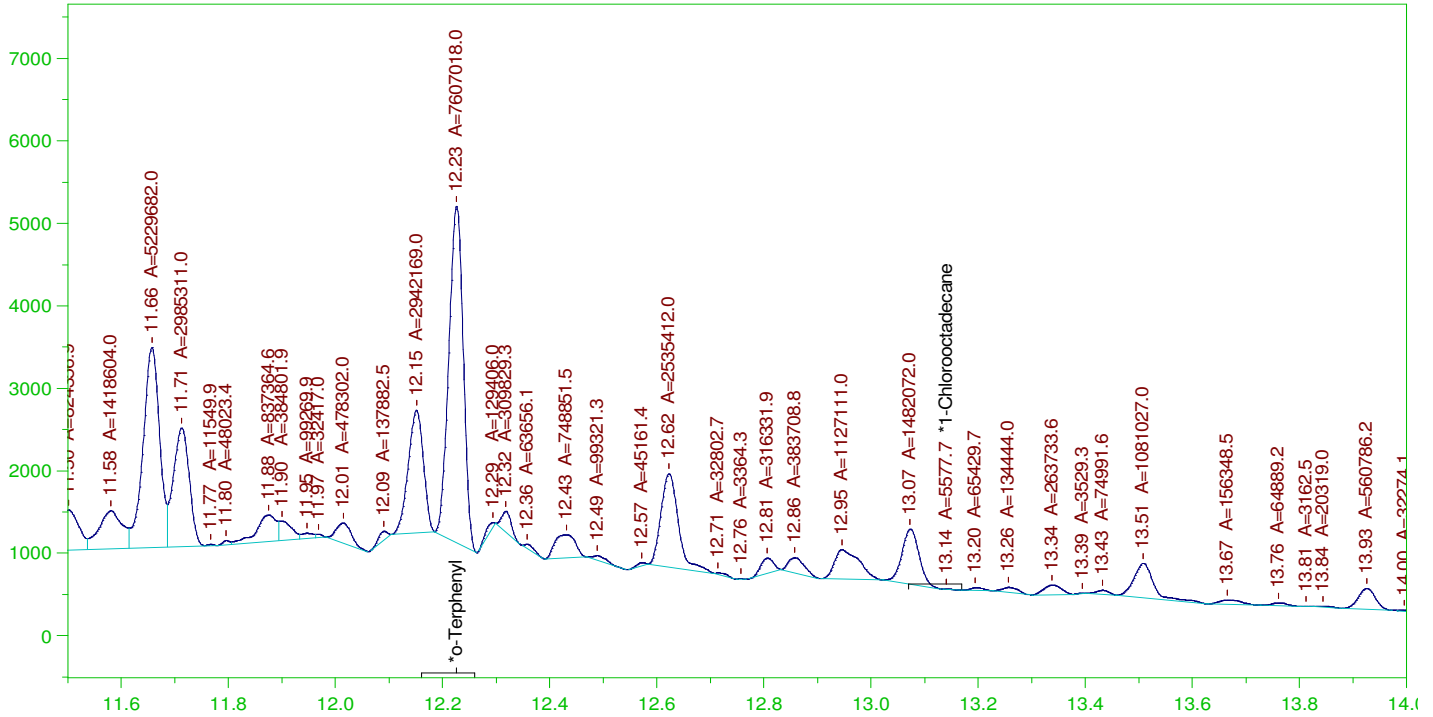
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0005.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 16742.88 | 111.62 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|-------|--------|
| *o-Terphenyl | 12.226 | 200. | 345.408 | 172.7 | 85-115 |
| *1-Chlorooctadecane | 13.073 | 200. | 173.389 | 86.69 | 85-115 |

G:\org\HP5\DAT\HP5022822_b\0228HP5.0005.RAW

CCV_0228HP505r, DRO 8015;0228HP5 , DRO220211A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0228HP505r, DRO 8015;0228HP5 , DRO220211A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0005.RAW
 Date & Time Acquired: 2/28/2022 10:37:42 AM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

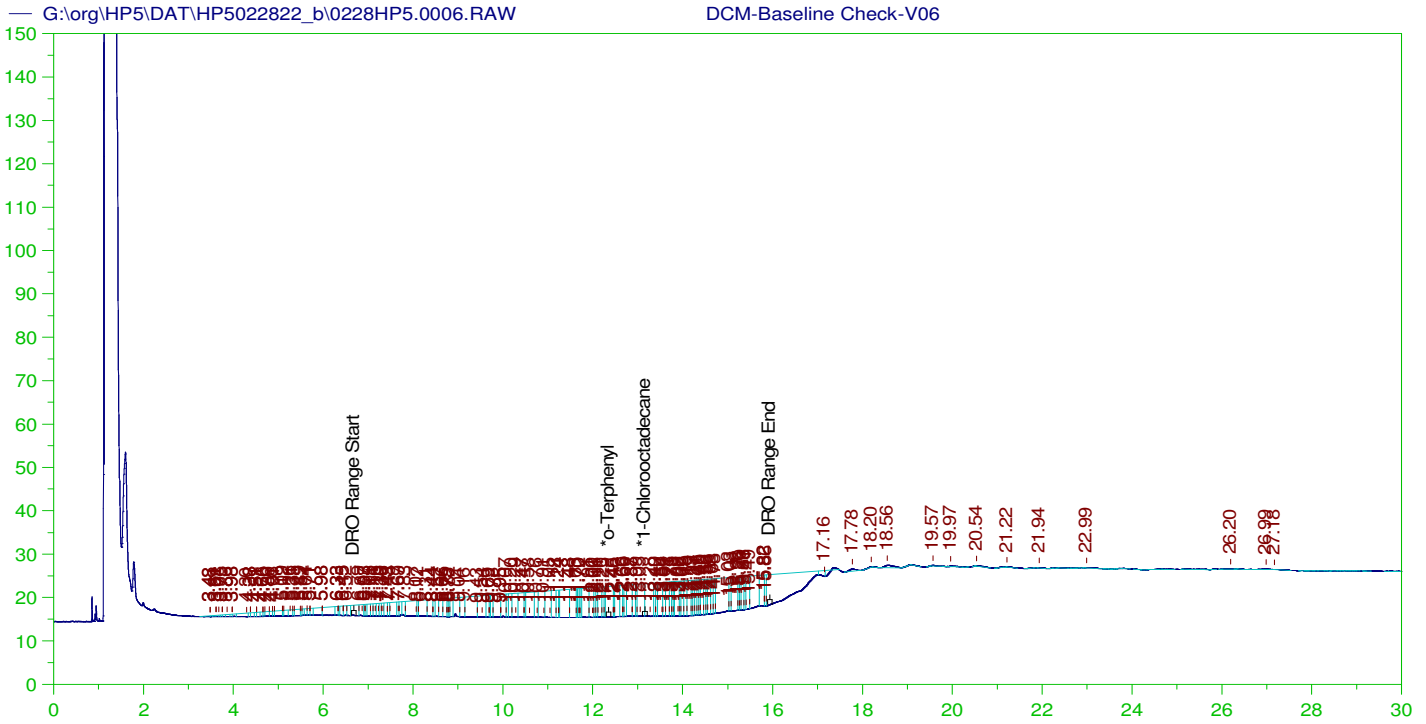
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.226 | 200. | 206.388 | 103.19 |
| *1-Chlorooctadecane | 13.141 | 200. | .151 | .08 |

DRO Area: 2.727418E+08 DRO Amount: 8347.017
 TEH Area: 2.844918E+08 TEH Amount: 8706.616

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0005.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 8706.62 | 58.04 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|--------|--------|
| *o-Terphenyl | 12.226 | 200. | 206.388 | 103.19 | 85-115 |
| *1-Chlorooctadecane | 13.141 | 200. | .151 | .08 | 85-115 |



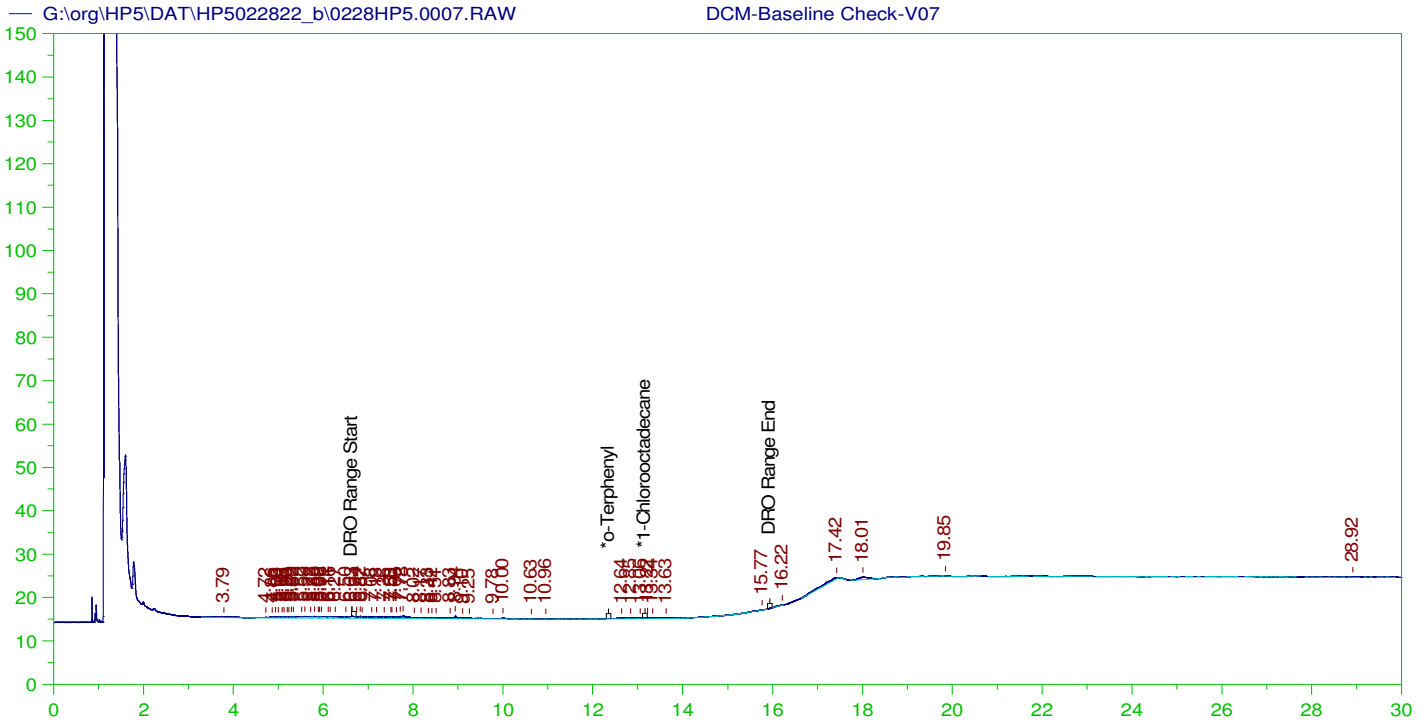
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V06
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0006.RAW
 Date & Time Acquired: 2/28/2022 11:20:24 AM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.936 | 200. | . | - |
| *1-Chlorooctadecane | 29.936 | 200. | . | - |

DRO Area:3564024 DRO Amount: 109.0737
 TEH Area:3827855 TEH Amount: 117.1481



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V07
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0007.RAW
 Date & Time Acquired: 2/28/2022 12:02:50 PM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

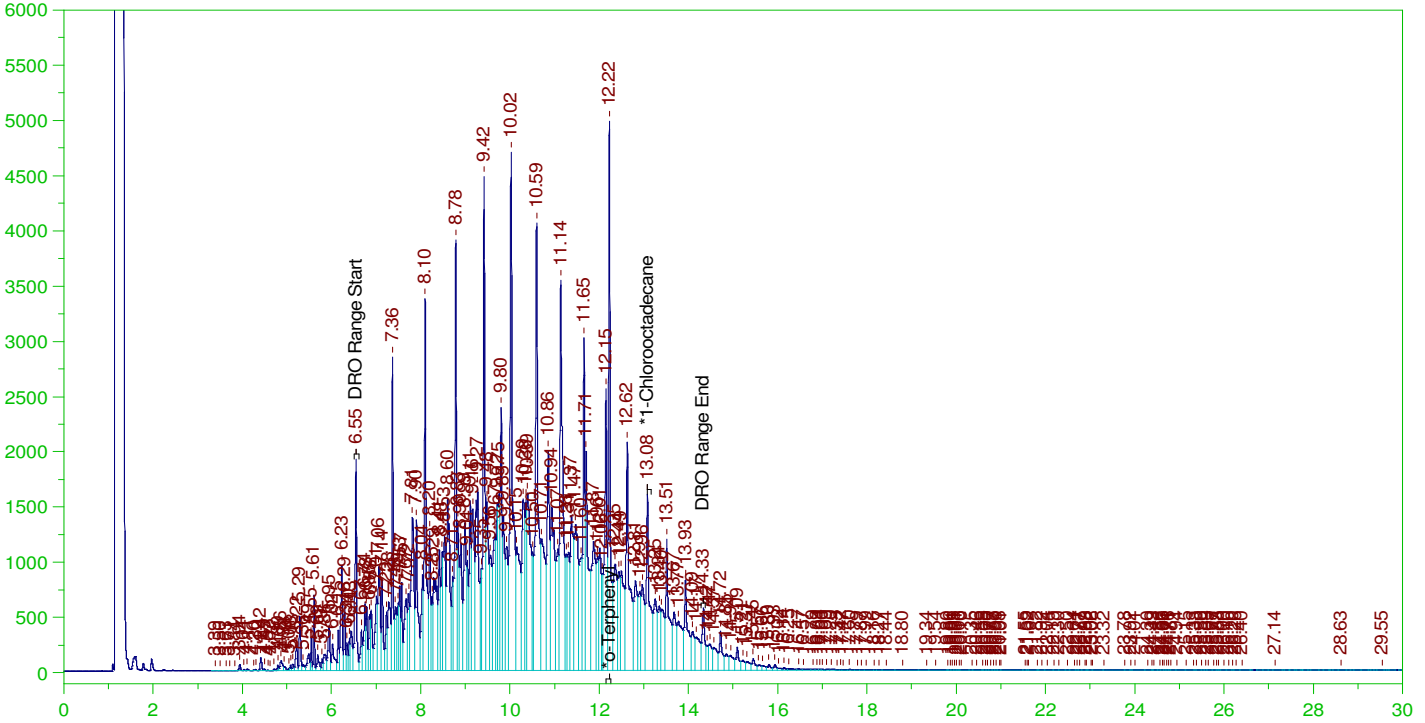
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.724 | 200. | . | - |
| *1-Chlorooctadecane | 29.724 | 200. | . | - |

DRO Area:58182.93 DRO Amount: 1.780636
 TEH Area:126791.1 TEH Amount: 3.880329

Batch ID: 164025

LCS-164025 ;0228HP5 ,

G:\org\HP5\DAT\HP5022822_b\0228HP5.0008.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-164025 ;0228HP5 ,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0008.RAW
Date & Time Acquired: 2/28/2022 12:45:33 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-JFb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

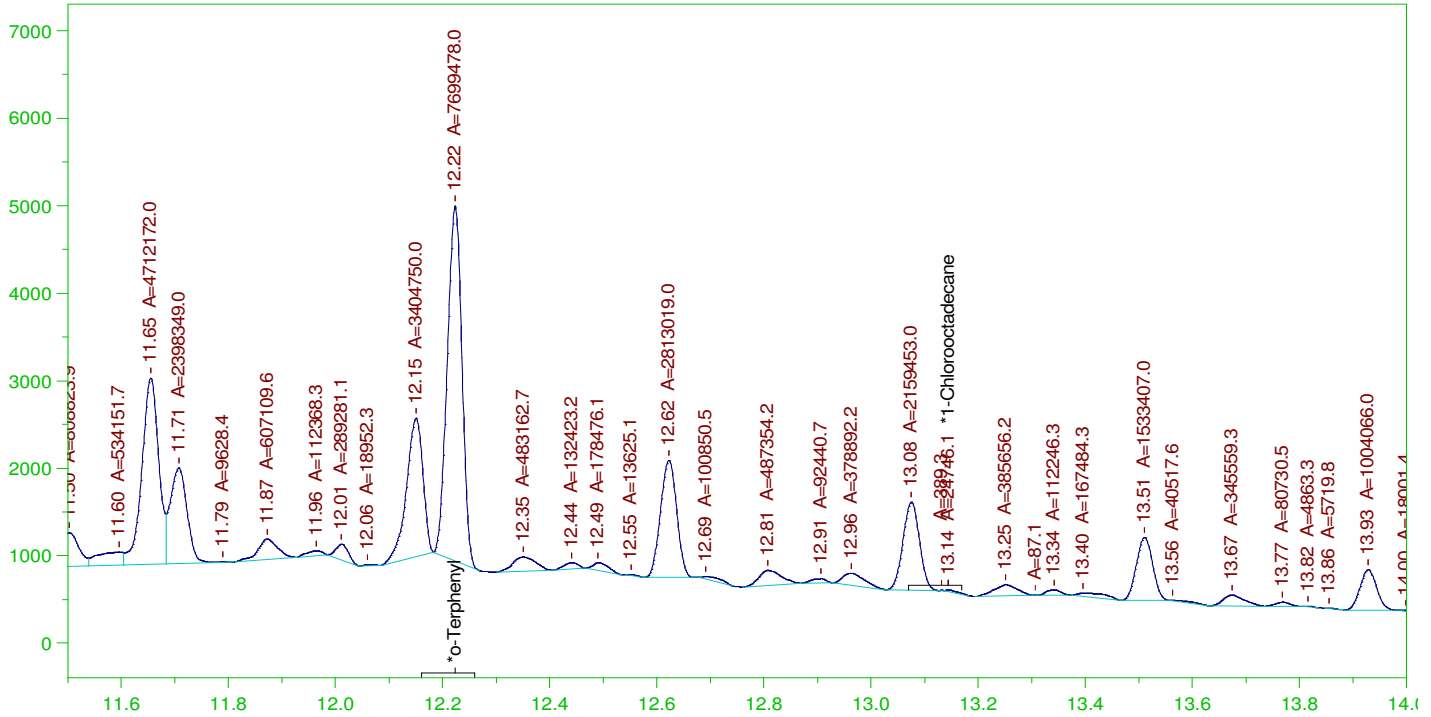
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.223 | .2 | .378 | 188.98 | - |
| *1-Chlorooctadecane | 13.075 | .2 | .216 | 107.87 | - |

DRO Area: 4.413712E+08 DRO Amount: 13.50777
TEH Area: 4.709171E+08 TEH Amount: 14.41199

Batch ID: 164025

G:\Org\HP5\DAT\HP5022822_b\0228HP5.0008.RAW

LCS-164025 ;0228HP5 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-164025 ;0228HP5 ,
 Raw File: G:\Org\HP5\DAT\HP5022822_b\0228HP5.0008.RAW
 Date & Time Acquired: 2/28/2022 12:45:33 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

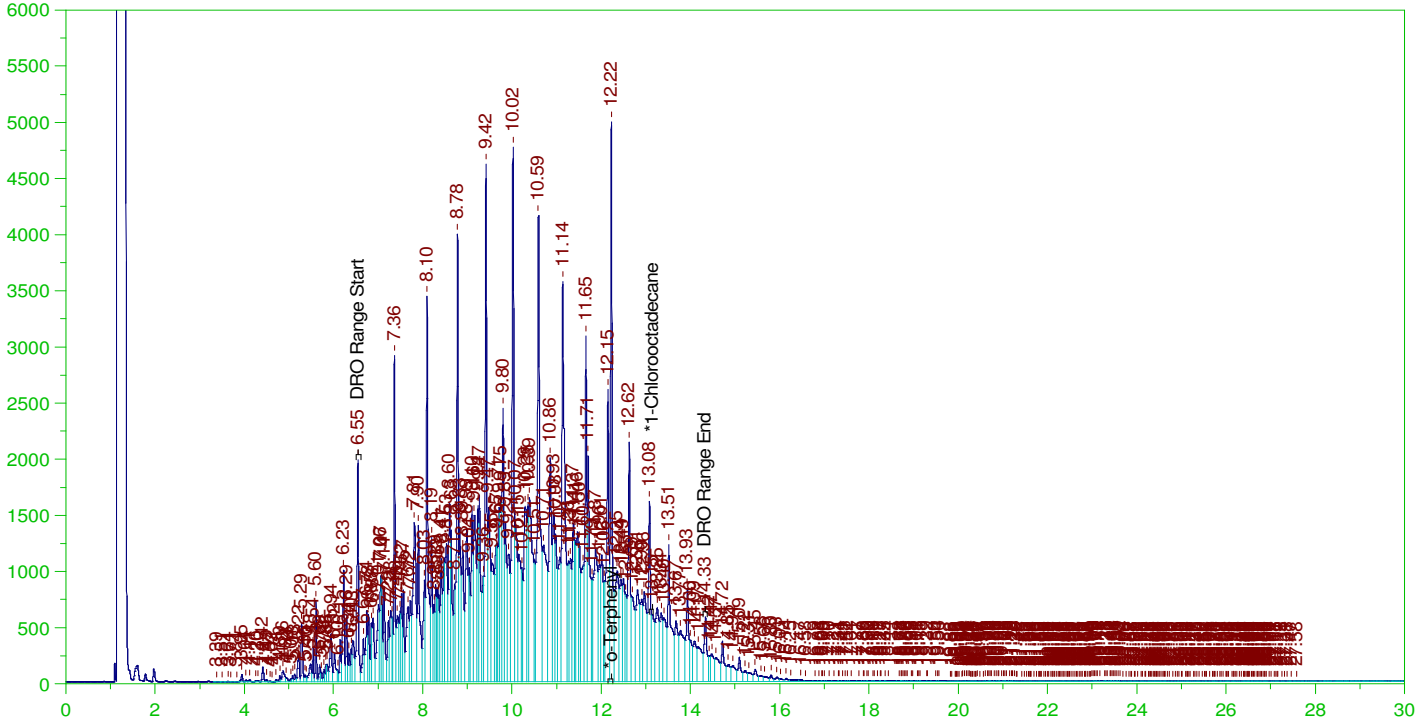
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.223 | .2 | .209 | 104.45 |
| *1-Chlorooctadecane | 13.145 | .2 | .001 | .34 |

DRO Area: 2.092589E+08 DRO Amount: 6.40418
 TEH Area: 2.245493E+08 TEH Amount: 6.872129

Batch ID: 164025

LCSD-164025 ;0228HP5 ,

G:\org\HP5\DAT\HP5022822_b\0228HP5.0009.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-164025 ;0228HP5 ,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0009.RAW
Date & Time Acquired: 2/28/2022 1:28:14 PM
Method File: G:\Org\HP5\Methods\D3_8015-022809-JFb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

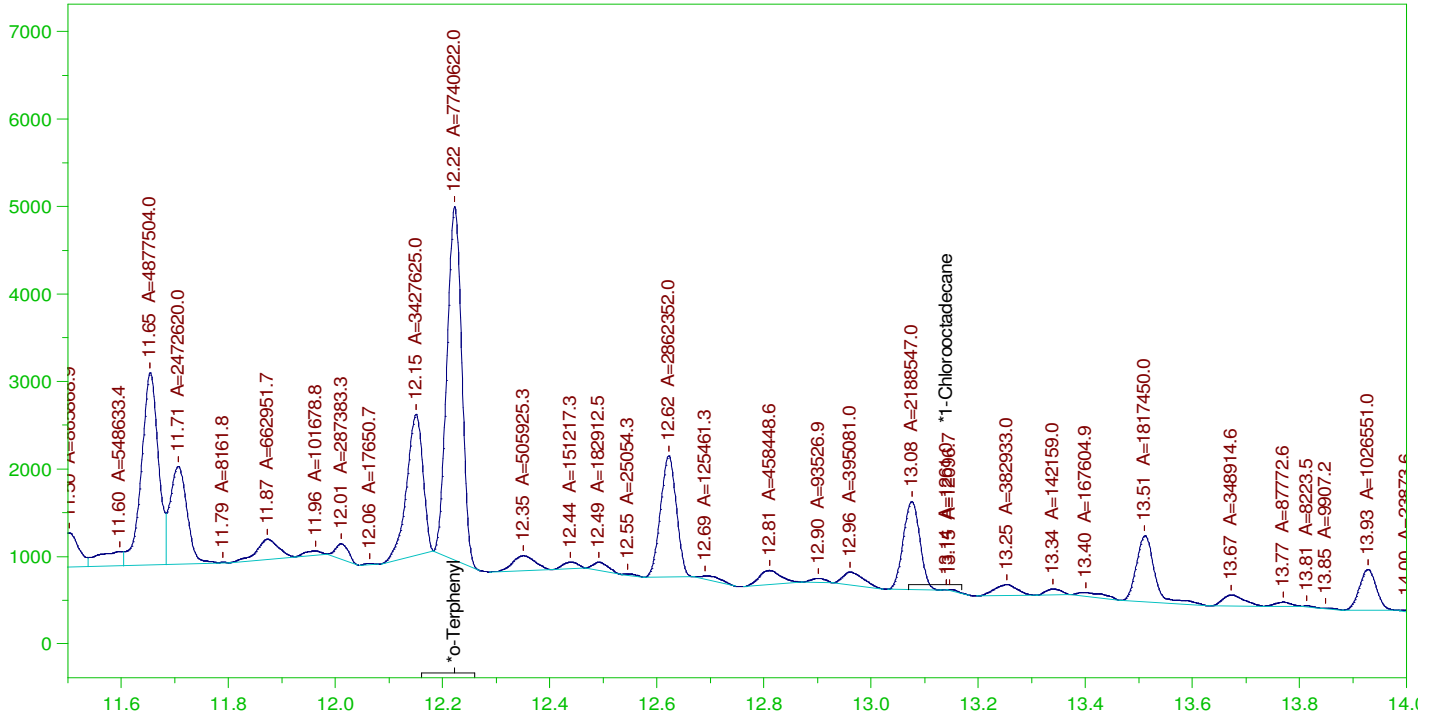
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.222 | .2 | .364 | 182.21 |
| *1-Chlorooctadecane | 13.147 | .2 | .064 | 31.8 |

DRO Area: 4.554898E+08 DRO Amount: 13.93985
TEH Area: 4.859965E+08 TEH Amount: 14.87349

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0009.RAW

LCSD-164025 ;0228HP5 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

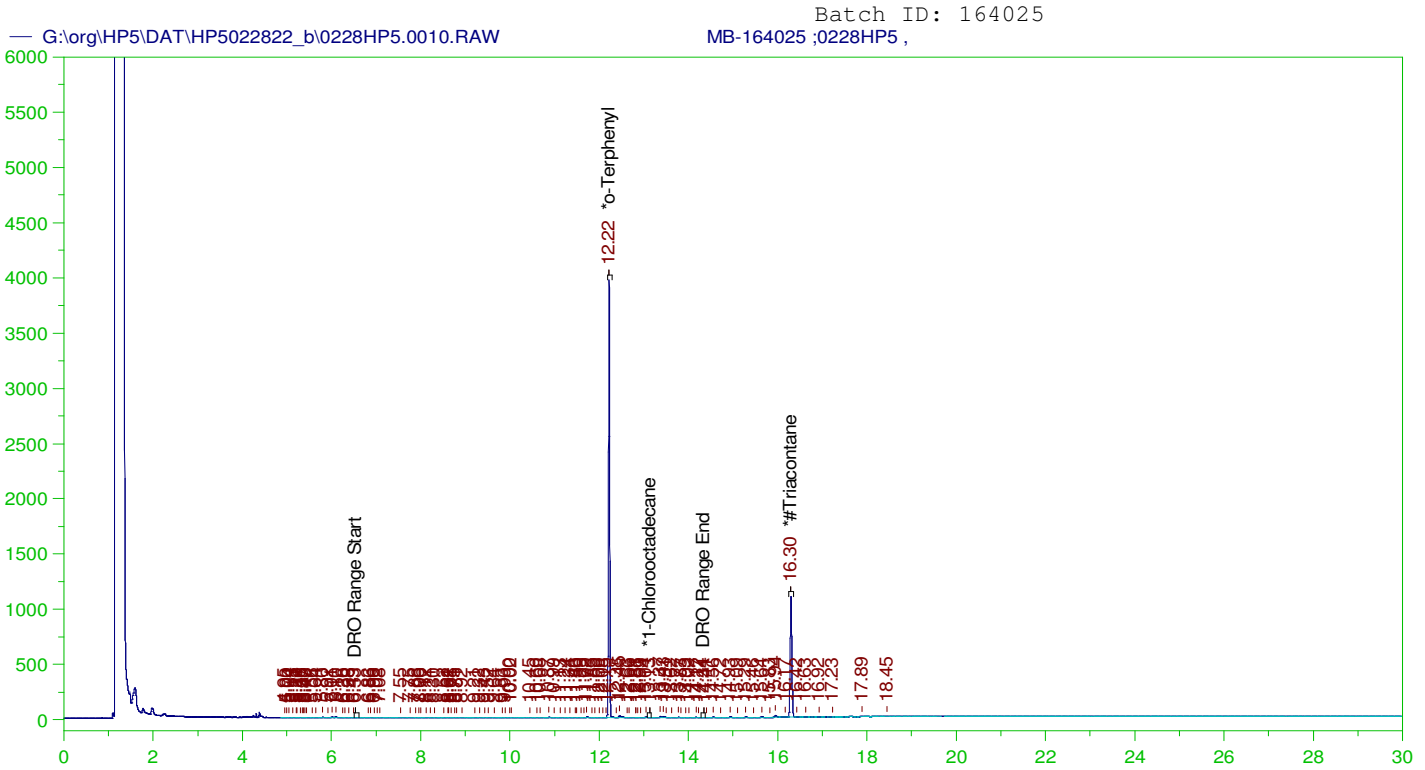
Sample Name: LCSD-164025 ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0009.RAW
 Date & Time Acquired: 2/28/2022 1:28:14 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.222 | .2 | .21 | 105.01 |
| *1-Chlorooctadecane | 13.14 | .2 | .02 | - |

DRO Area: 2.148472E+08 DRO Amount: 6.575207
 TEH Area: 2.307212E+08 TEH Amount: 7.061013



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-164025 ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0010.RAW
 Date & Time Acquired: 2/28/2022 2:11:07 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-JFb-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

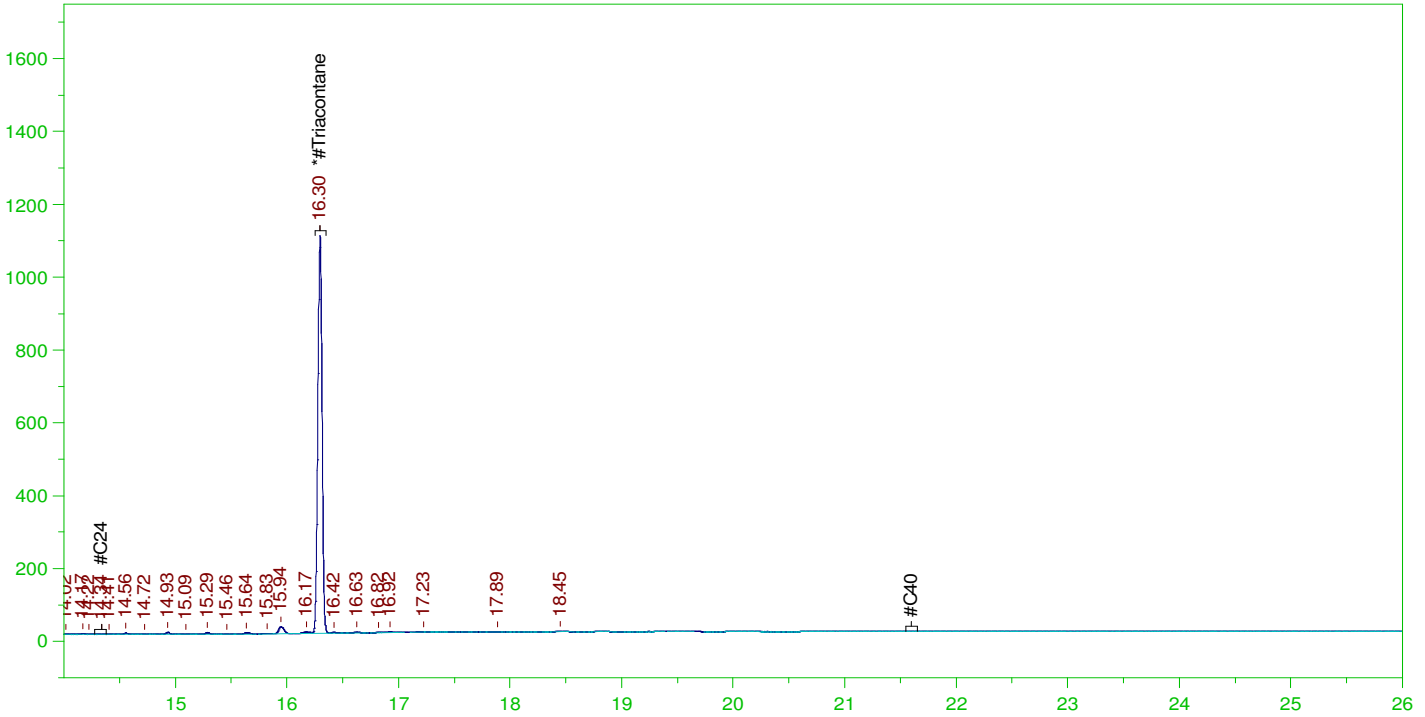
Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|----------|
| *o-Terphenyl | 12.218 | .2 | .21 | 105.02 - |
| *1-Chlorooctadecane | 13.133 | .2 | . | .01 - |
| *#Triacontane | 16.296 | .2 | .098 | 48.79 - |

DRO Area: 416012.4 DRO Amount: 1.273169E-02
 TEH Area: 700216.8 TEH Amount: 0.0214295

G:\org\HP5\DAT\HP5022822_b\0228HP5.0010.RAW

MB-164025 ;0228HP5 ,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-164025 ;0228HP5 ,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0010.RAW
Date & Time Acquired: 2/28/2022 2:11:07 PM
Method File: G:\Org\HP5\Methods\DR_OROS-BF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF_SAMP.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
Rt range for Residual Range Organics: 14.28 to 21.65

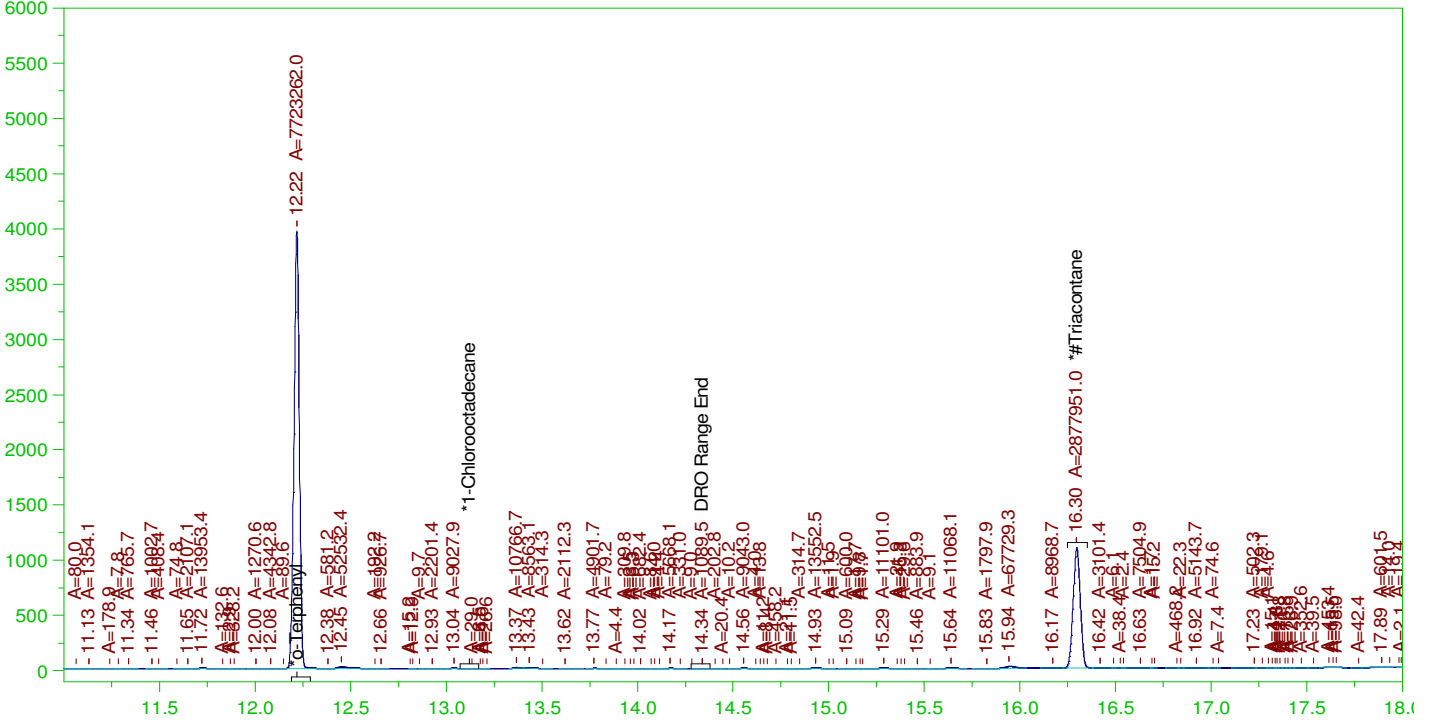
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane_____ | 16.296 | .5 | .098 | 19.52 | - |

RRO Area:165369.8 RRO AMOUNT: 6.258188E-03

Batch ID: 164025

MB-164025 ;0228HP5 ,

G:\org\HP5\DAT\HP5022822_b\0228HP5.0010.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-164025 ;0228HP5 ,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0010.RAW
Date & Time Acquired: 2/28/2022 2:11:07 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-JFb-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.218 | .2 | .21 | 104.77 |
| *1-Chlorooctadecane | 29.978 | .2 | . | - |
| *Triacontane | 16.296 | .2 | .097 | 48.55 |

DRO Area:255289.1 DRO Amount: 7.812894E-03
TEH Area:810139.7 TEH Amount: 0.0247936

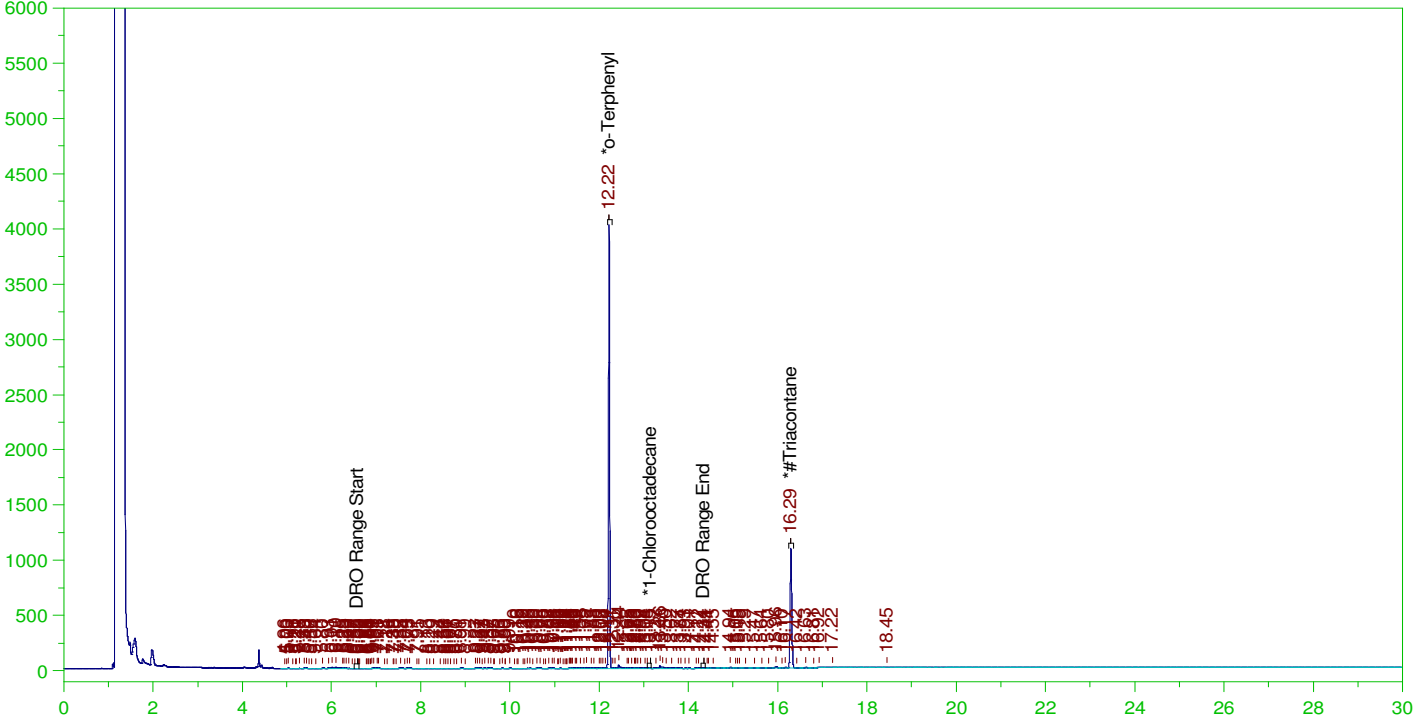


ERH2567 (RHMW2254-01 Low-flow)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0011.RAW

B22021627-011D ;0228HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-011D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0011.RAW
Date & Time Acquired: 2/28/2022 2:54:01 PM
Method File: G:\Org\HP5\Methods\DR_8015-C24T-JFb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.217 | .189 | .2 | 105.91 | - |
| *1-Chlorooctadecane | 13.145 | .189 | . | .01 | - |
| *#Triacontane | 16.295 | .189 | .091 | 48.45 | - |

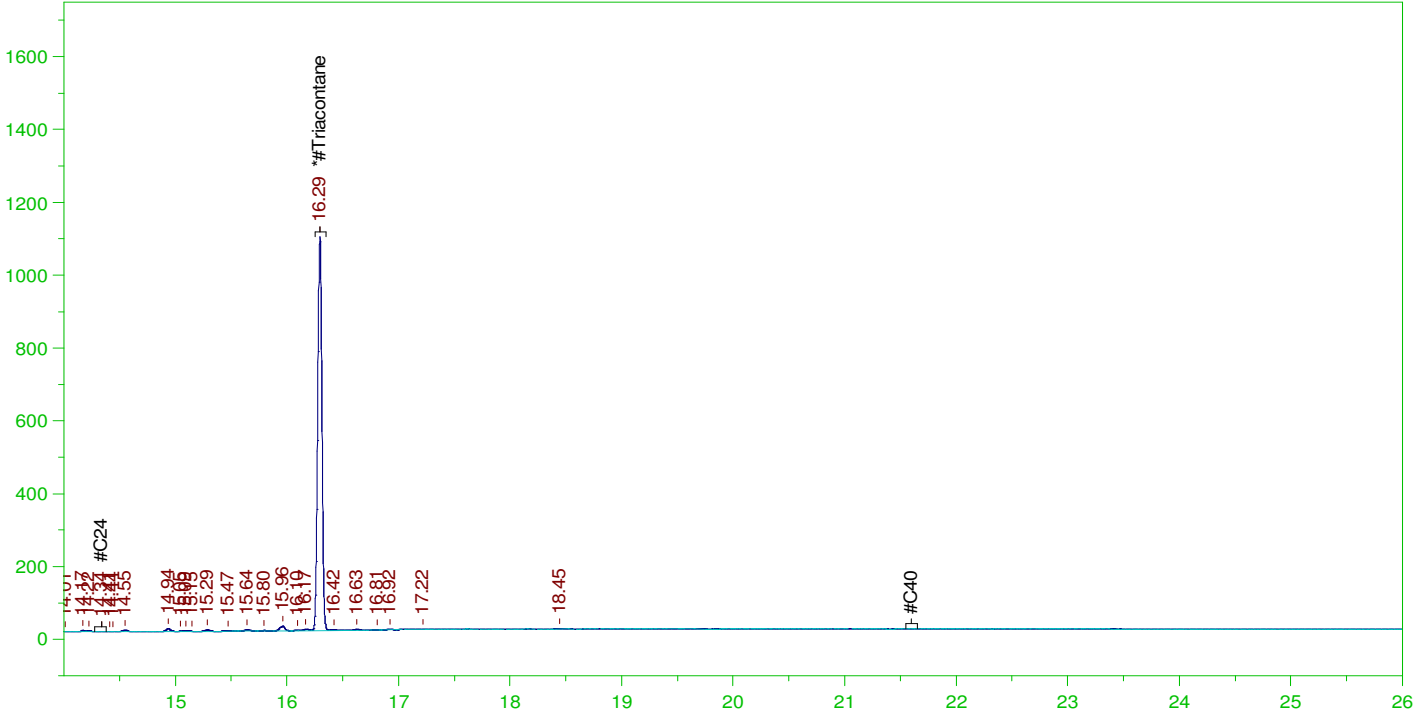
DRO Area: 641070.1 DRO Amount: 1.850884E-02
TEH Area: 987348.9 TEH Amount: 2.850653E-02

ERH2567 (RHMW2254-01 Low-flow)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0011.RAW

B22021627-011D ;0228HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-011D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0011.RAW
Date & Time Acquired: 2/28/2022 2:54:01 PM
Method File: G:\Org\HP5\Methods\DR_OROS-BF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF_SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
Rt range for Residual Range Organics: 14.28 to 21.65

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane_____ | 16.295 | .472 | .091 | 19.38 |

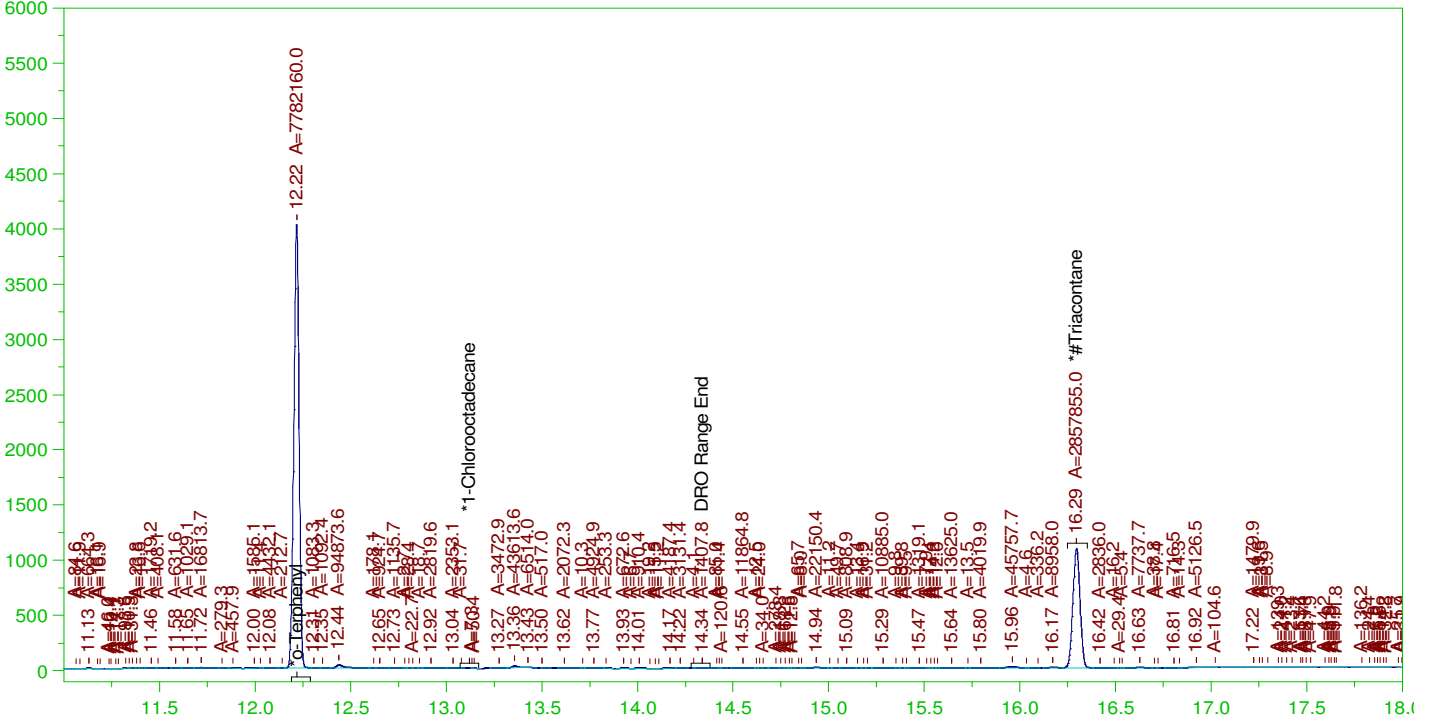
RRO Area:167281.7 RRO AMOUNT: 5.972207E-03

ERH2567 (RHMW2254-01 Low-flow)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0011.RAW

B22021627-011D ;0228HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-011D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0011.RAW
Date & Time Acquired: 2/28/2022 2:54:01 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-JFb-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.217 | .189 | .199 | 105.57 |
| *1-Chlorooctadecane | 29.992 | .189 | . | - |
| *#Triacontane | 16.295 | .189 | .091 | 48.22 |

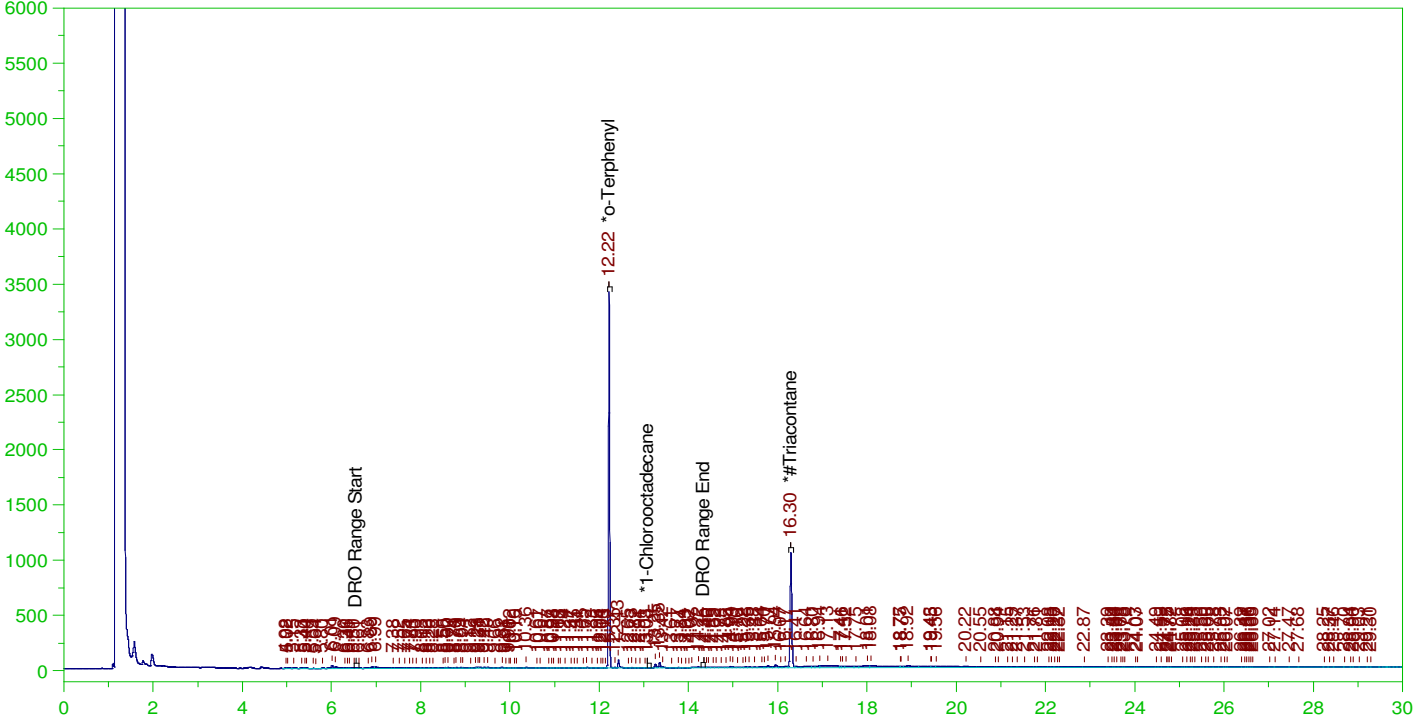
DRO Area:411236.2 DRO Amount: 1.187313E-02
TEH Area:1256467 TEH Amount: 3.627645E-02

ERH2565 (RHMW2254-01 Bailer)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0012.RAW

B22021627-001D ;0228HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0012.RAW
Date & Time Acquired: 2/28/2022 3:37:03 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24T-JFb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.218 | .19 | .172 | 90.11 | - |
| *1-Chlorooctadecane | 13.08 | .19 | . | .09 | - |
| *#Triacontane | 16.295 | .19 | .091 | 47.97 | - |

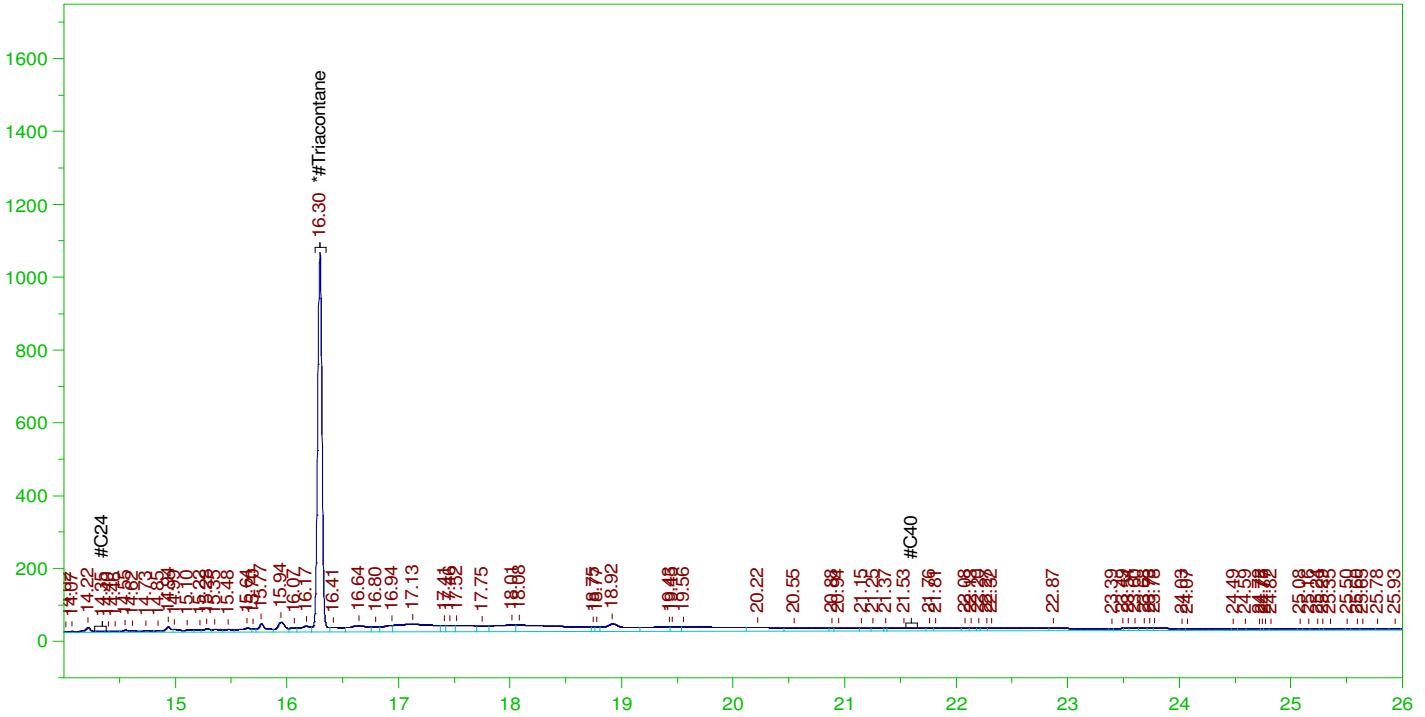
DRO Area:1683136 DRO Amount: 4.905796E-02
TEH Area:8866128 TEH Amount: 0.2584189

ERH2565 (RHMW2254-01 Bailer)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0012.RAW

B22021627-001D ;0228HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-001D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0012.RAW
Date & Time Acquired: 2/28/2022 3:37:03 PM
Method File: G:\Org\HP5\Methods\D3_OROS-BF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF_SAMP.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
Rt range for Residual Range Organics: 14.28 to 21.65

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane_____ | 16.295 | .476 | .091 | 19.19 |

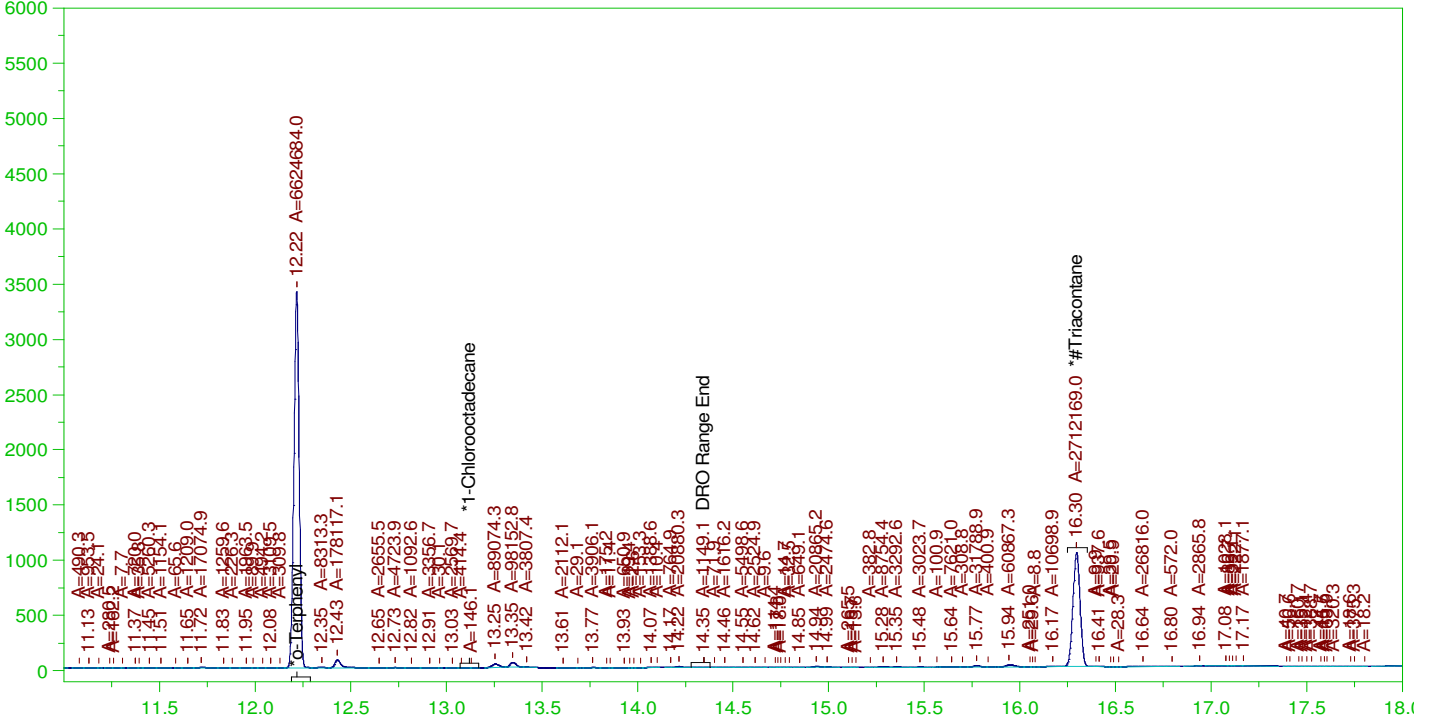
RRO Area:5077042 RRO AMOUNT: 0.1829843

ERH2565 (RHMW2254-01 Bailer)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0012.RAW

B22021627-001D ;0228HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0012.RAW
Date & Time Acquired: 2/28/2022 3:37:03 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-JFb-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

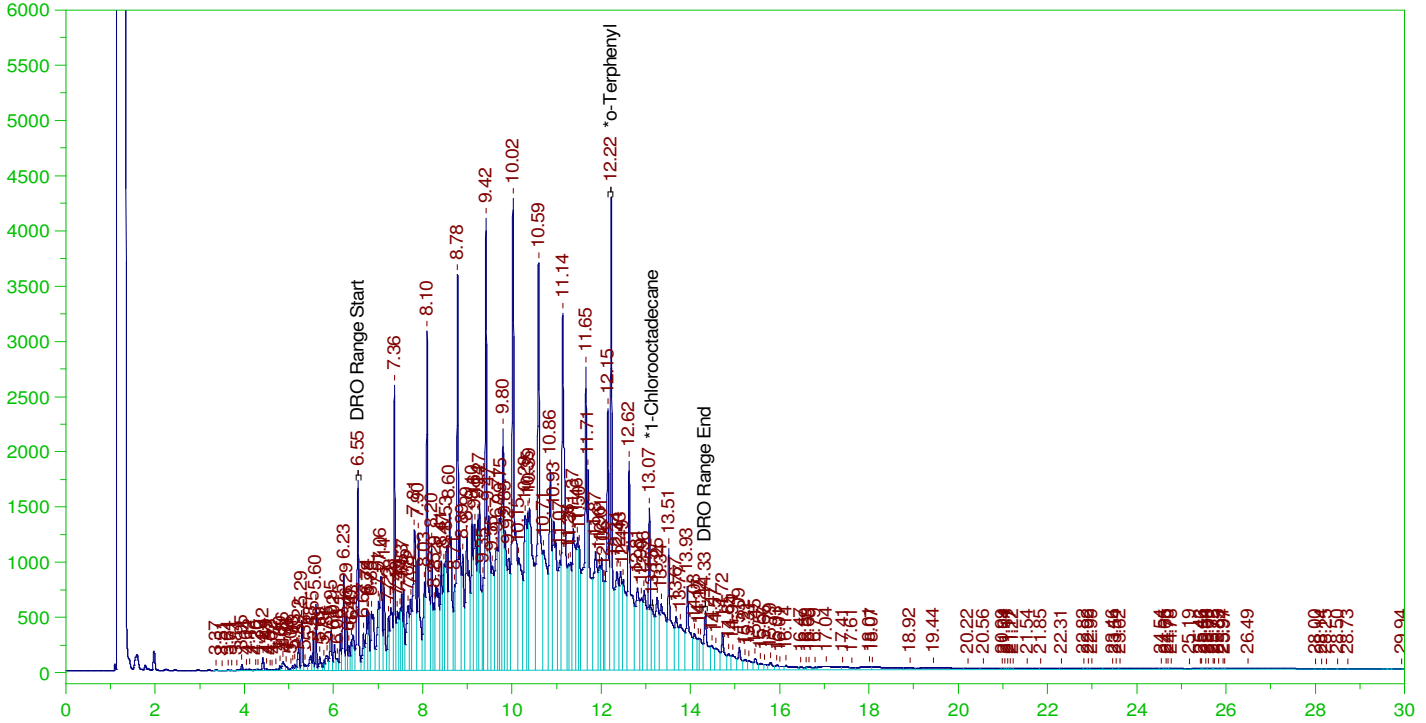
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 12.218 | .19 | .171 | 89.87 |
| *1-Chlorooctadecane | 29.987 | .19 | . | - |
| *#Triacontane | 16.295 | .19 | .087 | 45.76 |

DRO Area:1333376 DRO Amount: 0.0388636
TEH Area:2132646 TEH Amount: 6.215971E-02

Batch ID: 164025

B22021627-001DMS ;0228HP5 ,

G:\org\HP5\DAT\HP5022822_b\0228HP5.0013.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001DMS ;0228HP5 ,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0013.RAW
Date & Time Acquired: 2/28/2022 4:19:52 PM
Method File: G:\Org\HP5\Methods\D3_8015-C24-JFb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

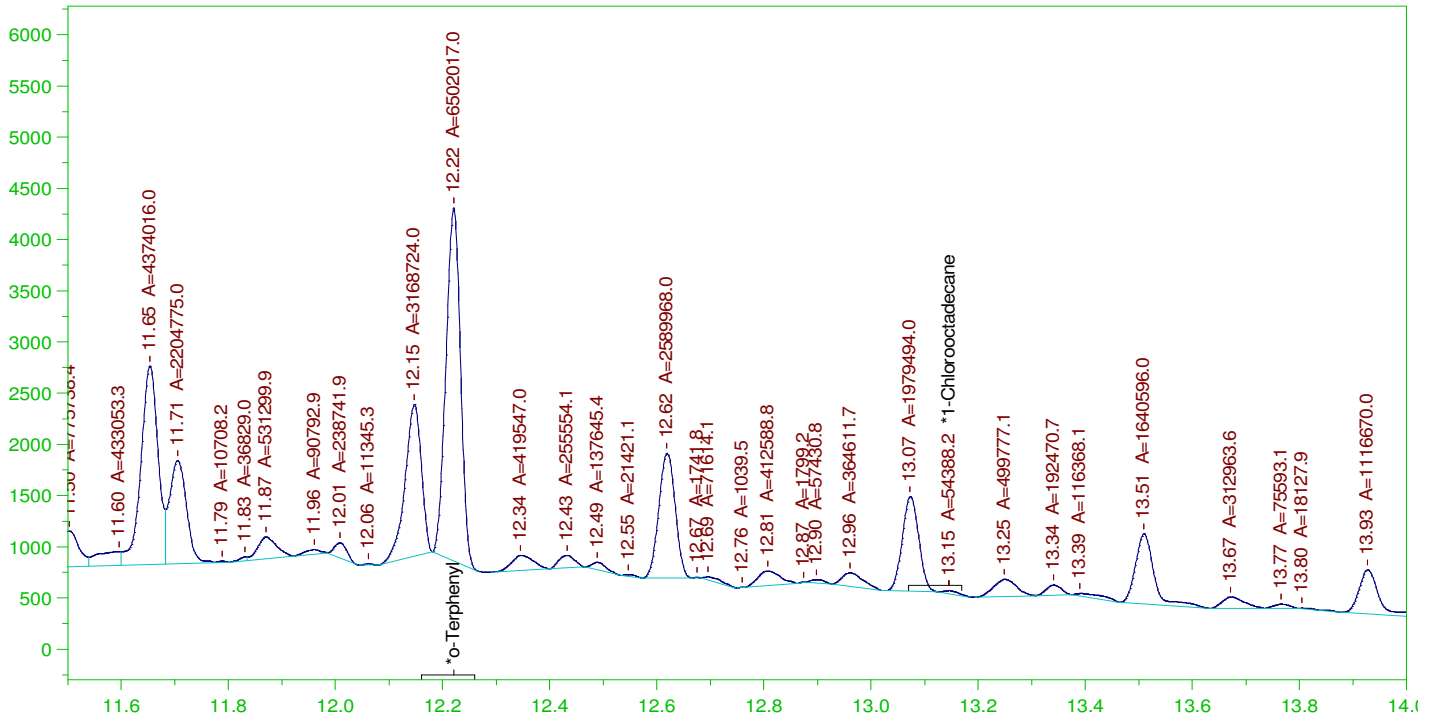
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.221 | .19 | .302 | 158.55 | - |
| *1-Chlorooctadecane | 13.146 | .19 | .053 | 27.63 | - |

DRO Area: 4.094935E+08 DRO Amount: 11.93541
TEH Area: 4.430037E+08 TEH Amount: 12.91212

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0013.RAW

B22021627-001DMS ;0228HP5 ,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

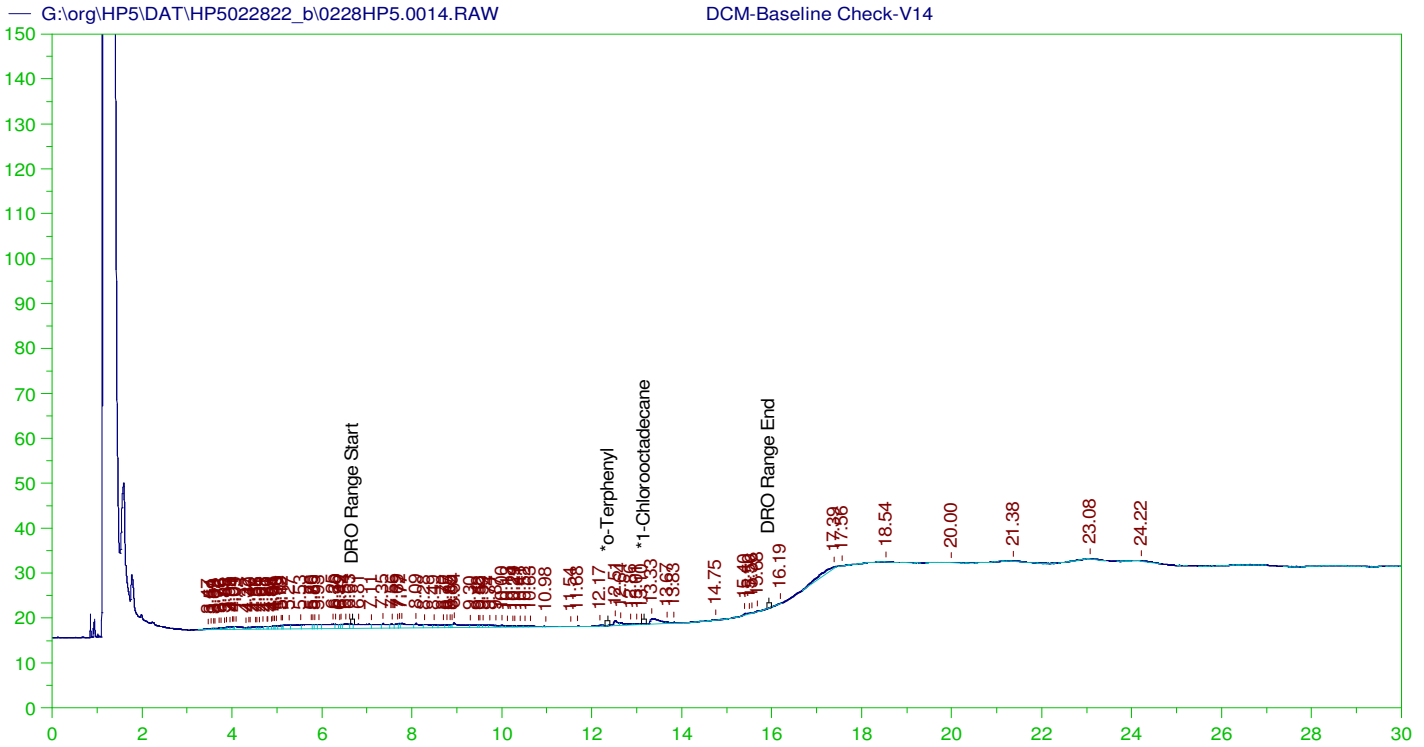
Sample Name: B22021627-001DMS ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0013.RAW
 Date & Time Acquired: 2/28/2022 4:19:52 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 12.221 | .19 | .168 | 88.2 |
| *1-Chlorooctadecane | 13.146 | .19 | .001 | .74 |

DRO Area: 1.907825E+08 DRO Amount: 5.560691
 TEH Area: 2.045868E+08 TEH Amount: 5.963042



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V14
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0014.RAW
 Date & Time Acquired: 2/28/2022 5:03:11 PM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.979 | 200. | . | - |
| *1-Chlorooctadecane | 29.979 | 200. | . | - |

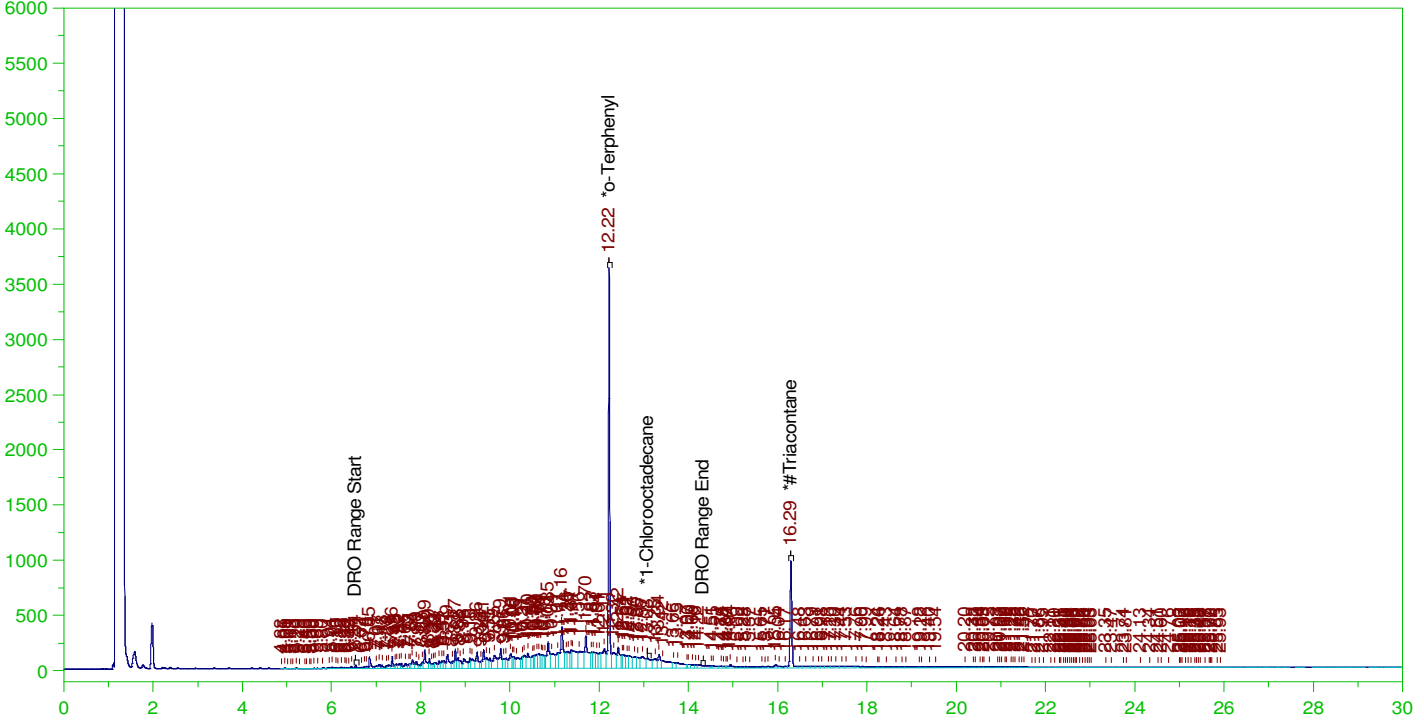
DRO Area:191573.4 DRO Amount: 5.862933
 TEH Area:362872.6 TEH Amount: 11.10539

ERH2569 (Sump Adit 3)

G:\org\HP5\DAT\HP5022822_b\0228HP5.0015.RAW

Batch ID: 164025

B22021627-006D ;0228HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-006D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0015.RAW
Date & Time Acquired: 2/28/2022 5:46:26 PM
Method File: G:\Org\HP5\Methods\D3_8015-022815-JFb-L%.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.218 | .189 | .198 | 104.83 | - |
| *1-Chlorooctadecane | 13.079 | .189 | .016 | 8.63 | - |
| *#Triacontane | 16.294 | .189 | .087 | 46.15 | - |

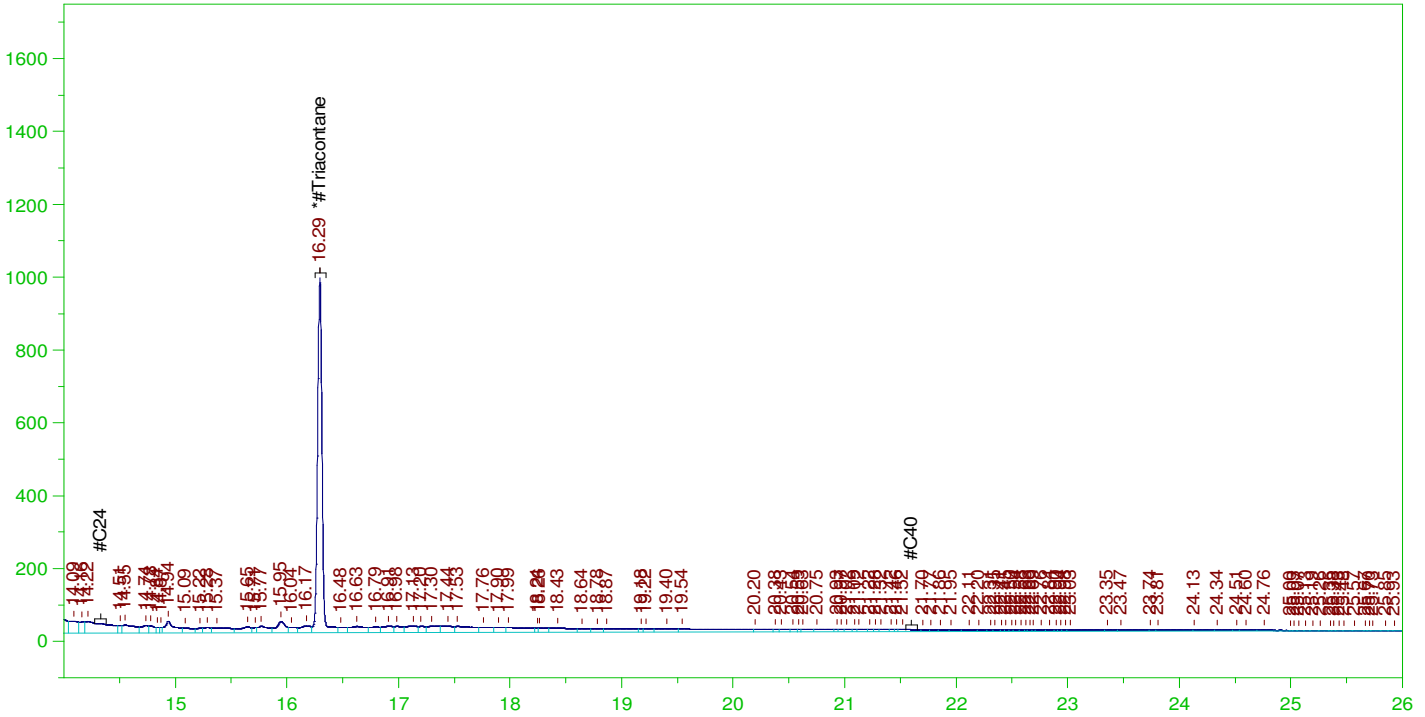
DRO Area: 3.884418E+07 DRO Amount: 1.121501
TEH Area: 4.43087E+07 TEH Amount: 1.279272

ERH2569 (Sump Adit 3)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0015.RAW

B22021627-006D ;0228HP5 , \$HC-8015-DRO-W,



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-006D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0015.RAW
Date & Time Acquired: 2/28/2022 5:46:26 PM
Method File: G:\Org\HP5\Methods\D3_OROS-022815-BF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF_SAMP.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
Rt range for Residual Range Organics: 14.28 to 21.65

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane_____ | 16.294 | .472 | .087 | 18.46 |

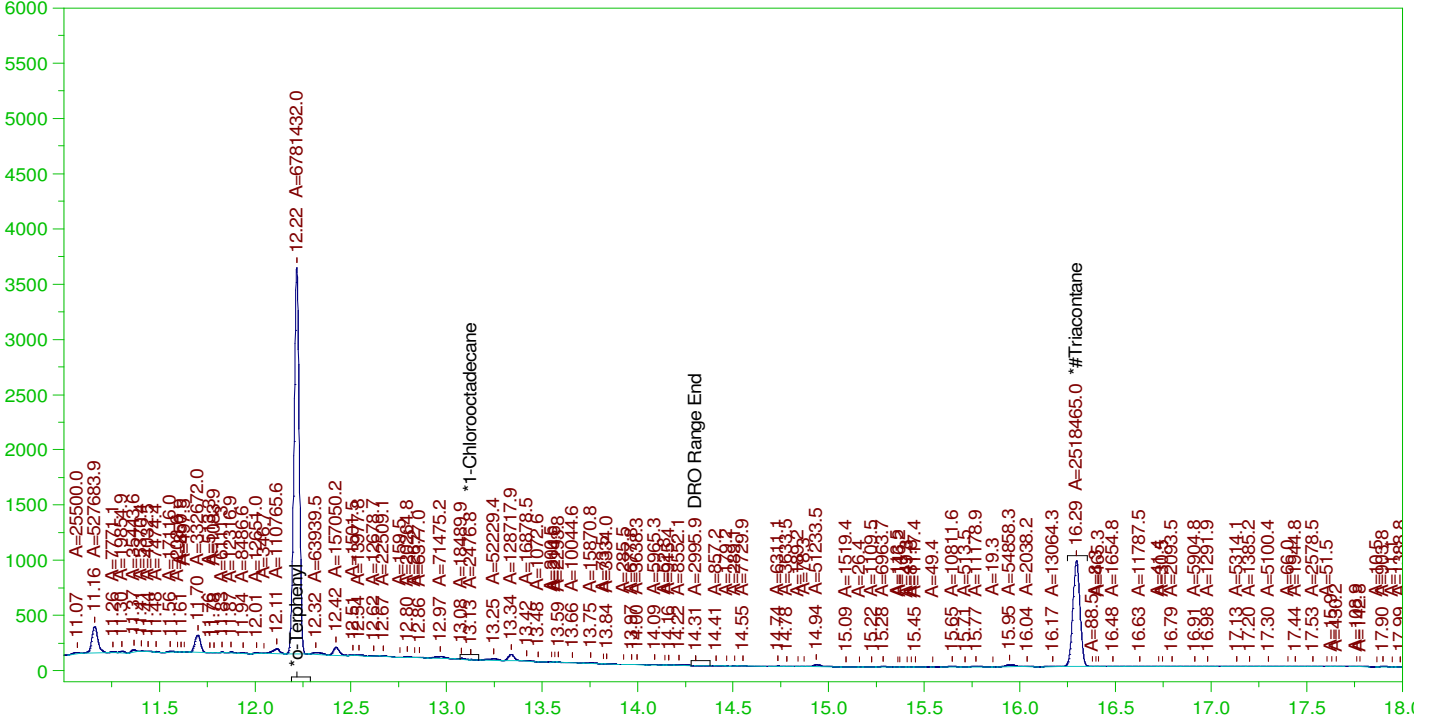
RRO Area:4527913 RRO AMOUNT: 0.1616533

ERH2569 (Sump Adit 3)

Batch ID: 164025

G:\org\HP5\DAT\HP5022822_b\0228HP5.0015.RAW

B22021627-006D ;0228HP5 , \$HC-8015-DRO-W,



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

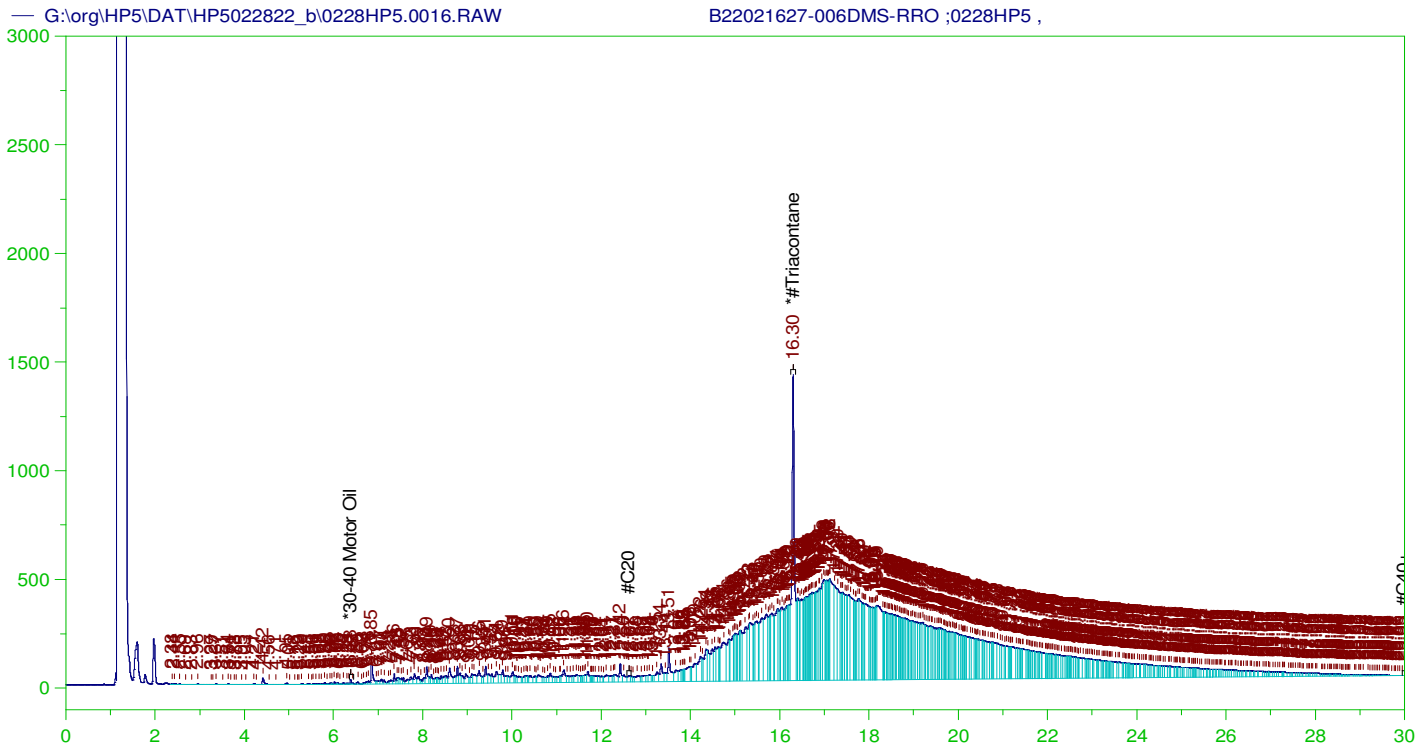
Sample Name: B22021627-006D ;0228HP5 , \$HC-8015-DRO-W,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0015.RAW
Date & Time Acquired: 2/28/2022 5:46:26 PM
Method File: G:\Org\HP5\Methods\DS_8015-C24T-JFb-L#.met
Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24-T.CAL
Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.218 | .189 | .174 | 91.99 | - |
| *1-Chlorooctadecane | 13.128 | .189 | . | .03 | - |
| *#Triacontane | 16.294 | .189 | .08 | 42.49 | - |

DRO Area:7932971 DRO Amount: 0.2290391
TEH Area:8560944 TEH Amount: 0.2471698



RESIDUAL RANGE ORGANICS CHROMATOGRAM

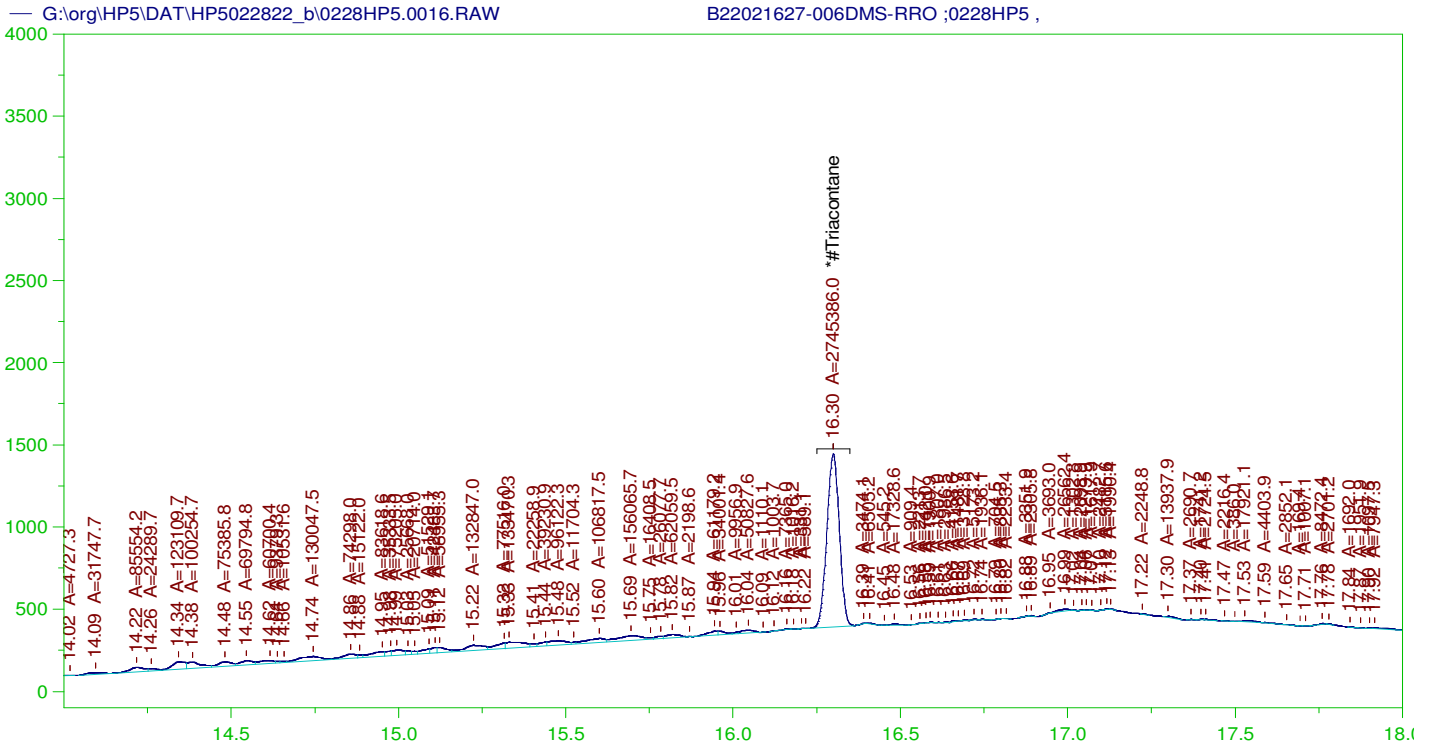
Sample Name: B22021627-006DMS-RRO ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0016.RAW
 Date & Time Acquired: 2/28/2022 6:29:38 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-022816-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.299 | .472 | .181 | 38.39 | - |

~~RRO~~ TEH(Oil Range) Area:1.4227E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 5.079254

AMN 03/01/2022



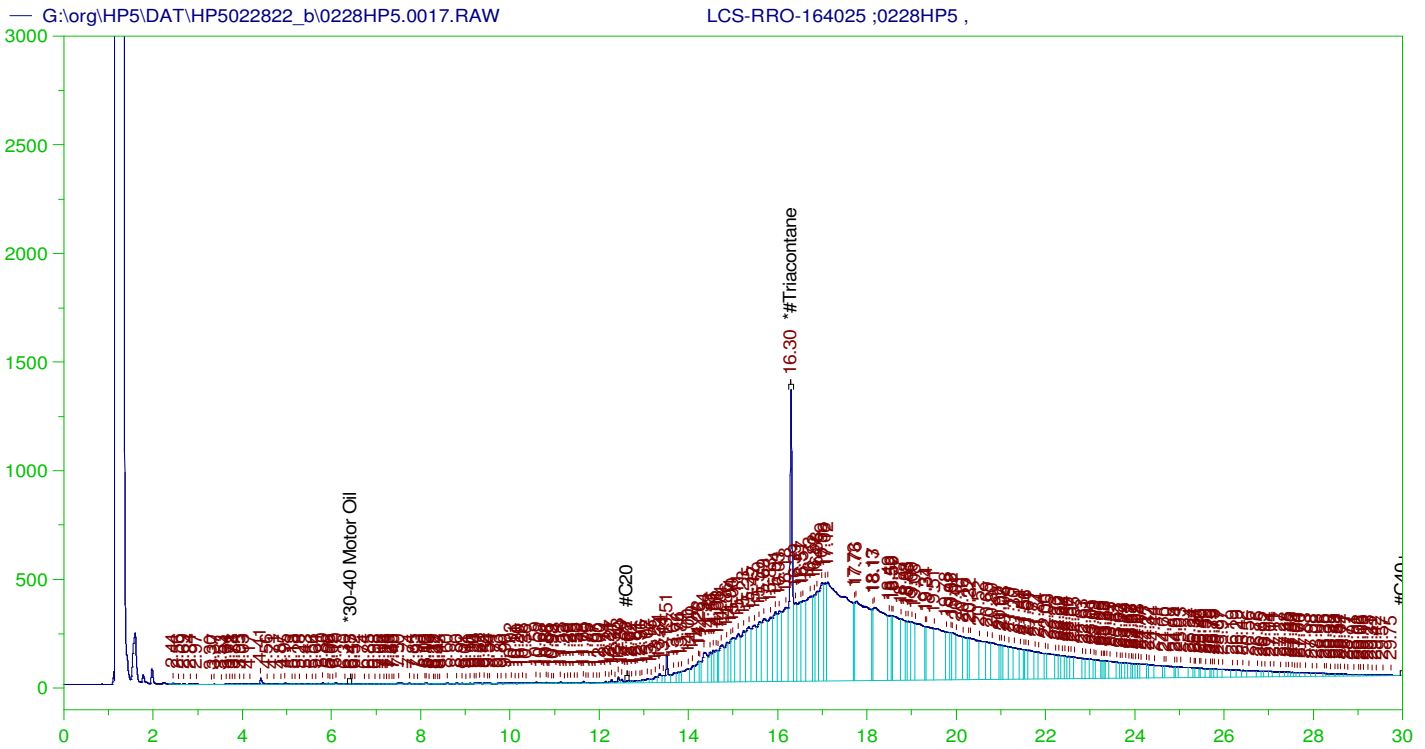
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-006DMS-RRO ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0016.RAW
 Date & Time Acquired: 2/28/2022 6:29:38 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane_____ | 16.299 | .472 | .087 | 18.53 |

RRO Area:3388776 RRO AMOUNT: 0.1209844



RESIDUAL RANGE ORGANICS CHROMATOGRAM

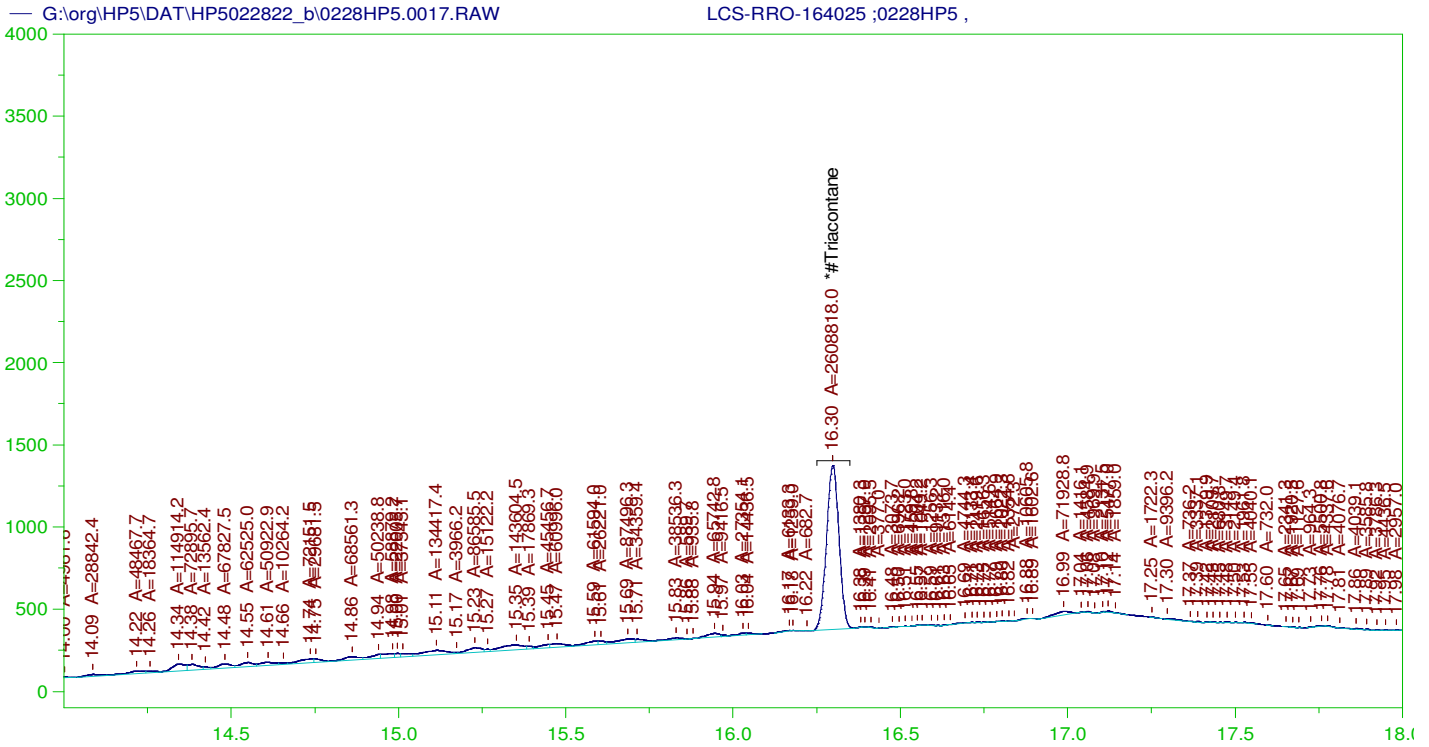
Sample Name: LCS-RRO-164025 ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0017.RAW
 Date & Time Acquired: 2/28/2022 7:12:50 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane | 16.298 | .5 | .179 | 35.72 |

RRO TEH(Oil Range) Area:1.39672E+08 RRO TEH(Oil Range) AMOUNT: 5.285688

AMN 03/01/2022



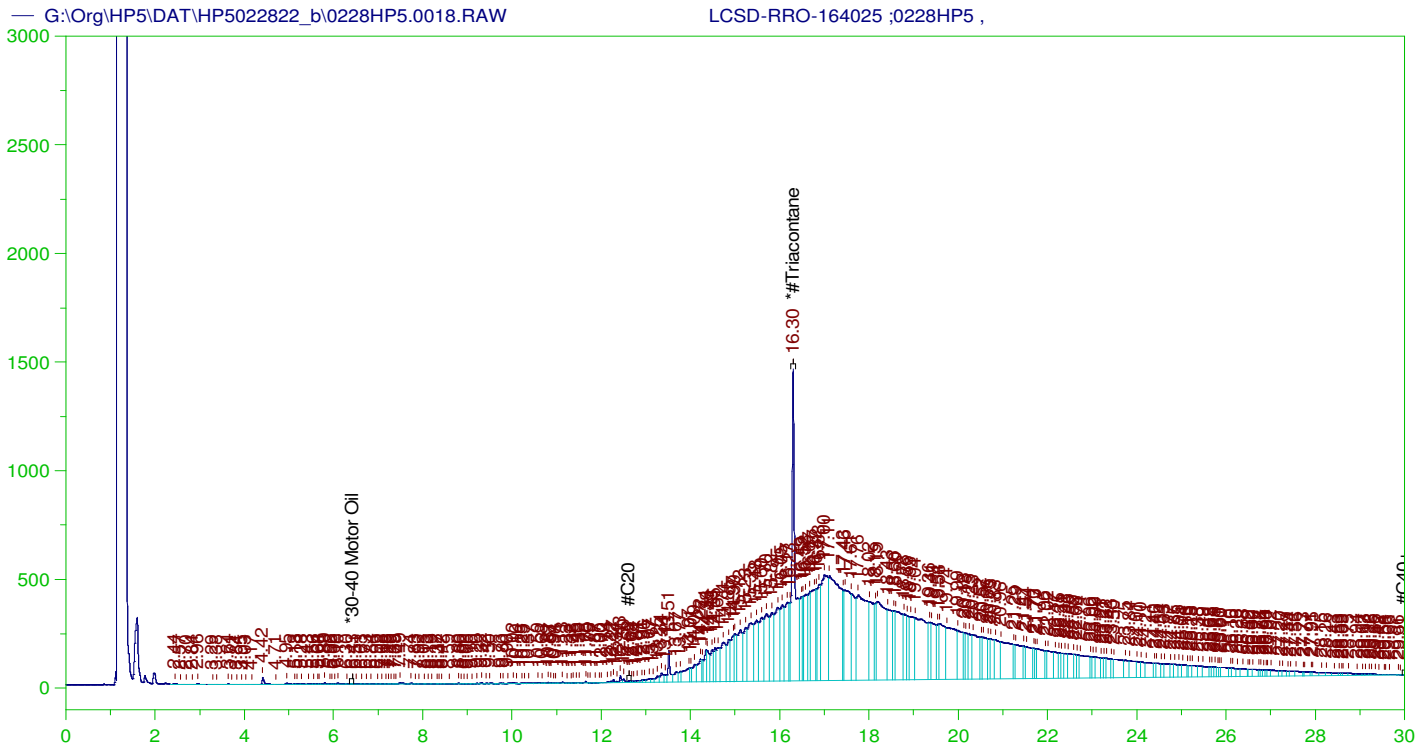
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-RRO-164025 ;0228HP5 ,
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0017.RAW
 Date & Time Acquired: 2/28/2022 7:12:50 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|---------|
| *#Triacontane_____ | 16.298 | .5 | .088 | 17.61 - |

RRO Area:2685724 RRO AMOUNT: 0.1016374



RESIDUAL RANGE ORGANICS CHROMATOGRAM

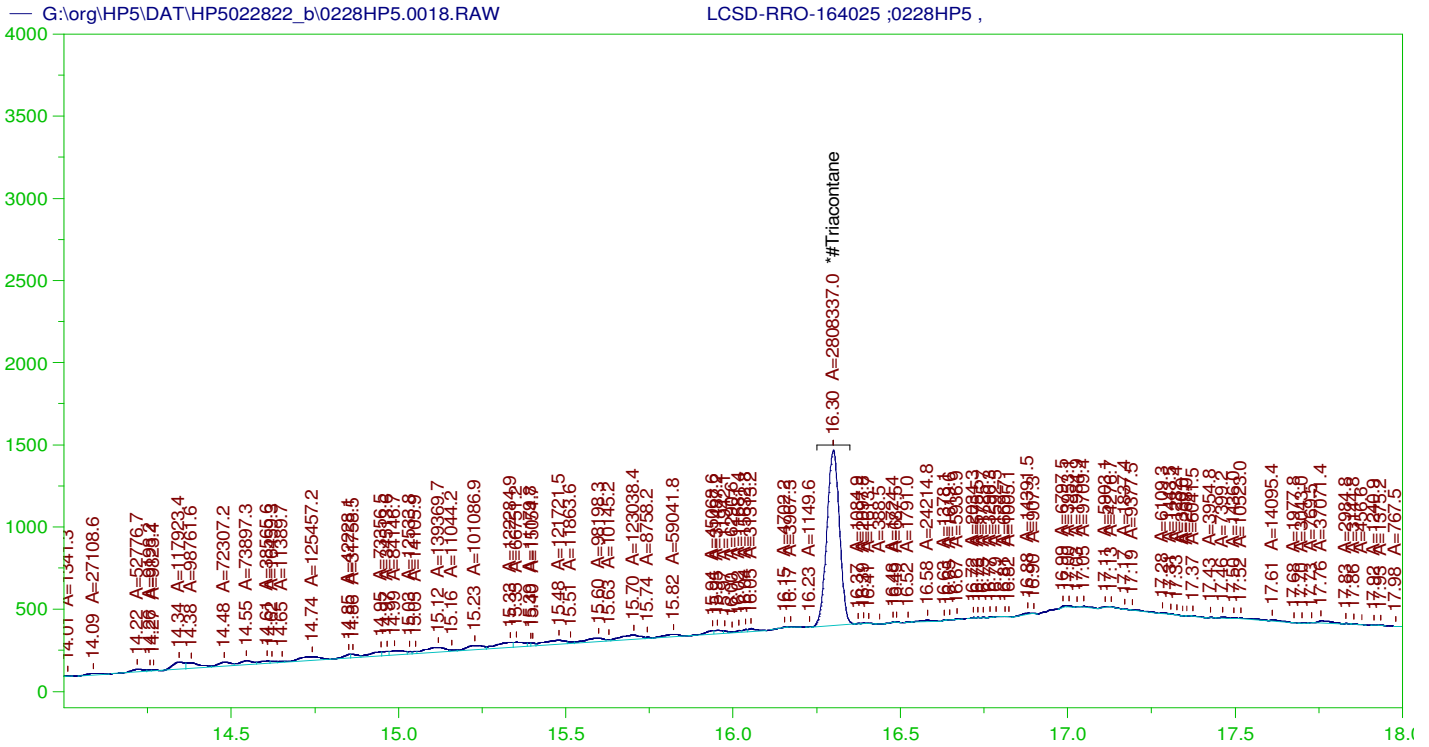
Sample Name: LCSD-RRO-164025 ;0228HP5 ,
 Raw File: G:\Org\HP5\DAT\HP5022822_b\0228HP5.0018.RAW
 Date & Time Acquired: 2/28/2022 7:56:02 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BF.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane | 16.299 | .5 | .255 | 51.06 |

~~RRO~~ TEH(Oil Range) Area:1.488756E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 5.633986

AMN 03/01/2022



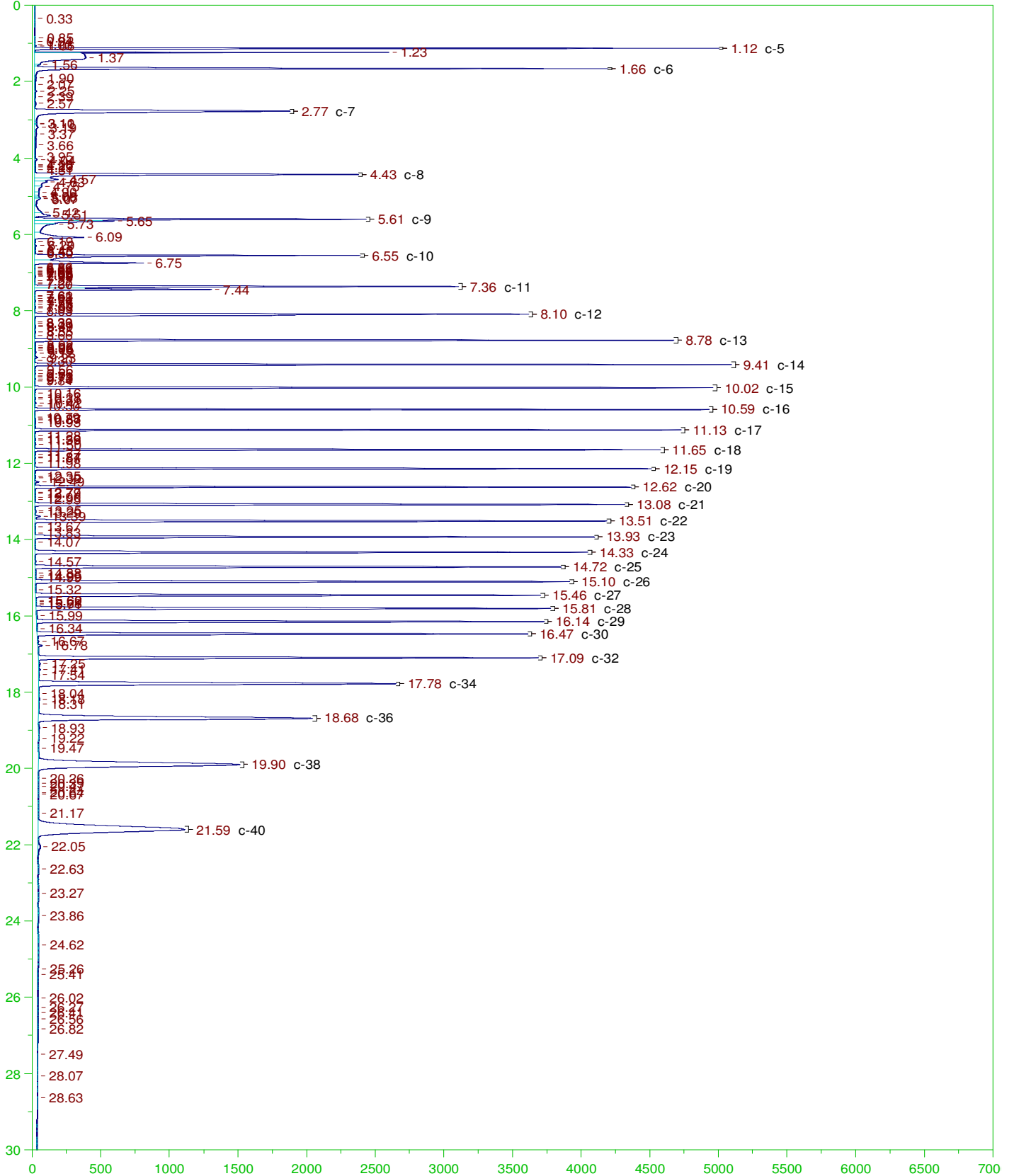
RESIDUAL RANGE ORGANICS CHROMATOGRAM

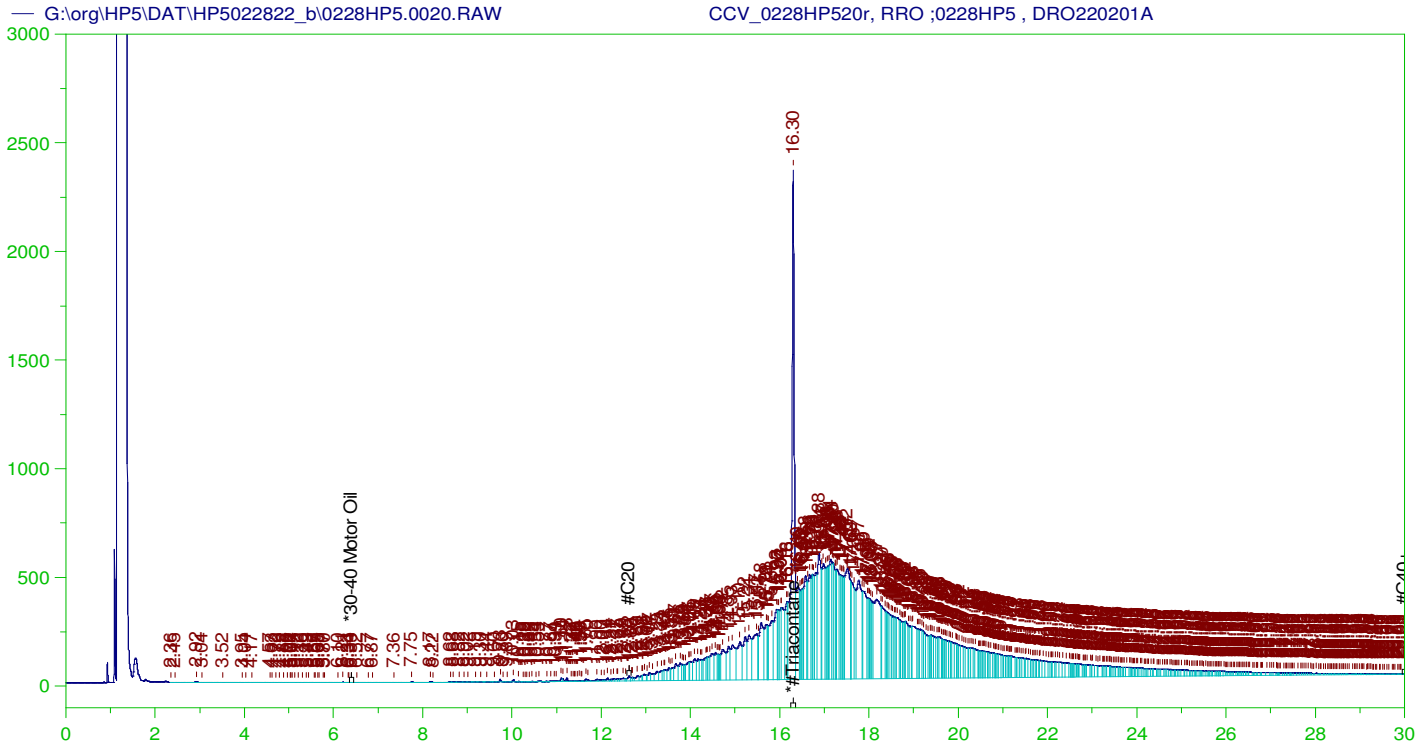
Sample Name: LCSD-RRO-164025 ;0228HP5 ,
Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0018.RAW
Date & Time Acquired: 2/28/2022 7:56:02 PM
Method File: G:\Org\HP5\Methods\DS_ORO-BF-L%.MET
Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
Rt range for Residual Range Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane | 16.299 | .5 | .095 | 18.95 |

RRO Area:3005576 RRO AMOUNT: 0.1137418





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0228HP520r, RRO ;0228HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0020.RAW
 Date & Time Acquired: 2/28/2022 9:22:31 PM
 Method File: G:\Org\HP5-Methods\DC_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.57 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.301 | 500. | 305.227 | 61.05 | - |

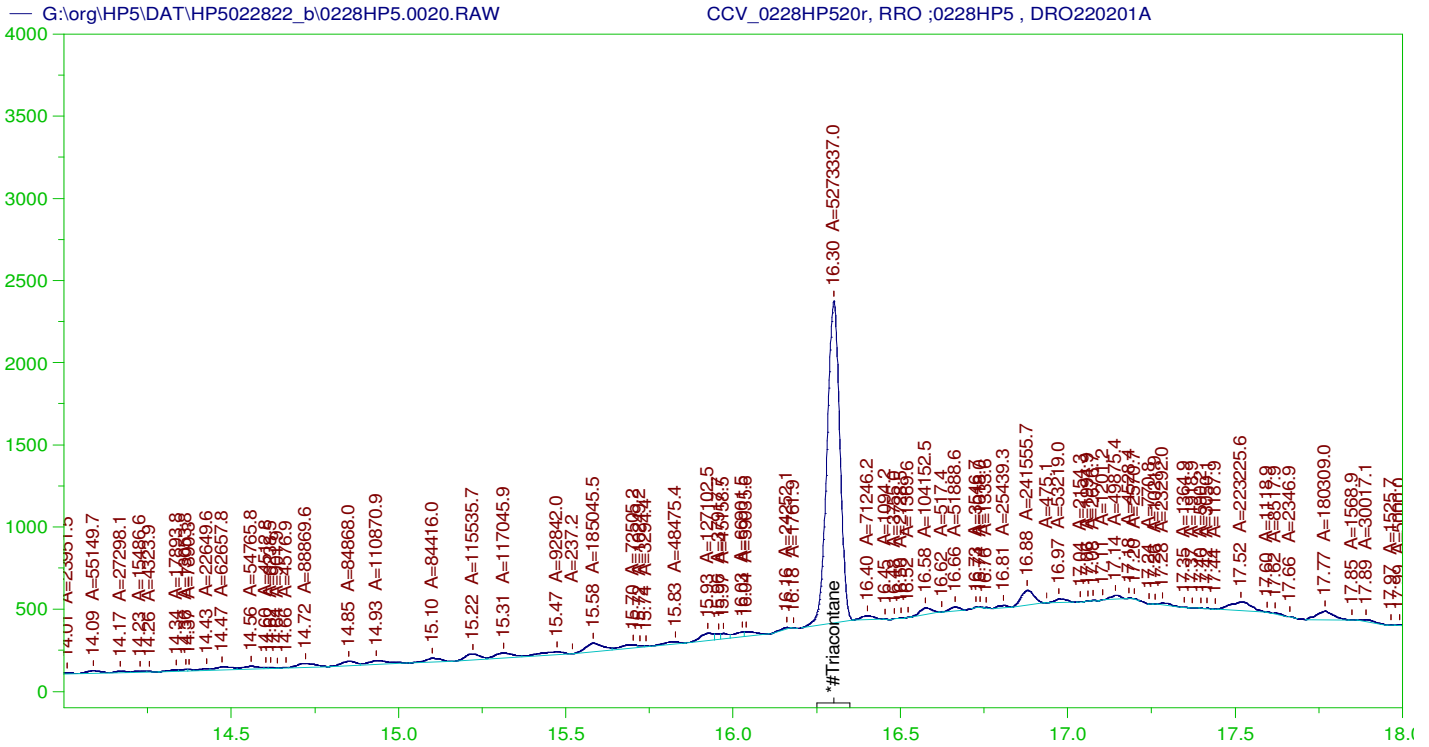
RRO TEH(Oil Range) Area:1.27939E+08 RRO TEH(Oil Range) AMOUNT: 4841.671

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0020.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .021 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|--------|--------|
| *#Triacontane | 16.301 | 200. | 305.227 | 152.61 | 75-125 |

AMN 03/01/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0228HP520r, RRO ;0228HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0020.RAW
 Date & Time Acquired: 2/28/2022 9:22:31 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BF-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111Bf.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.57 to 30.05

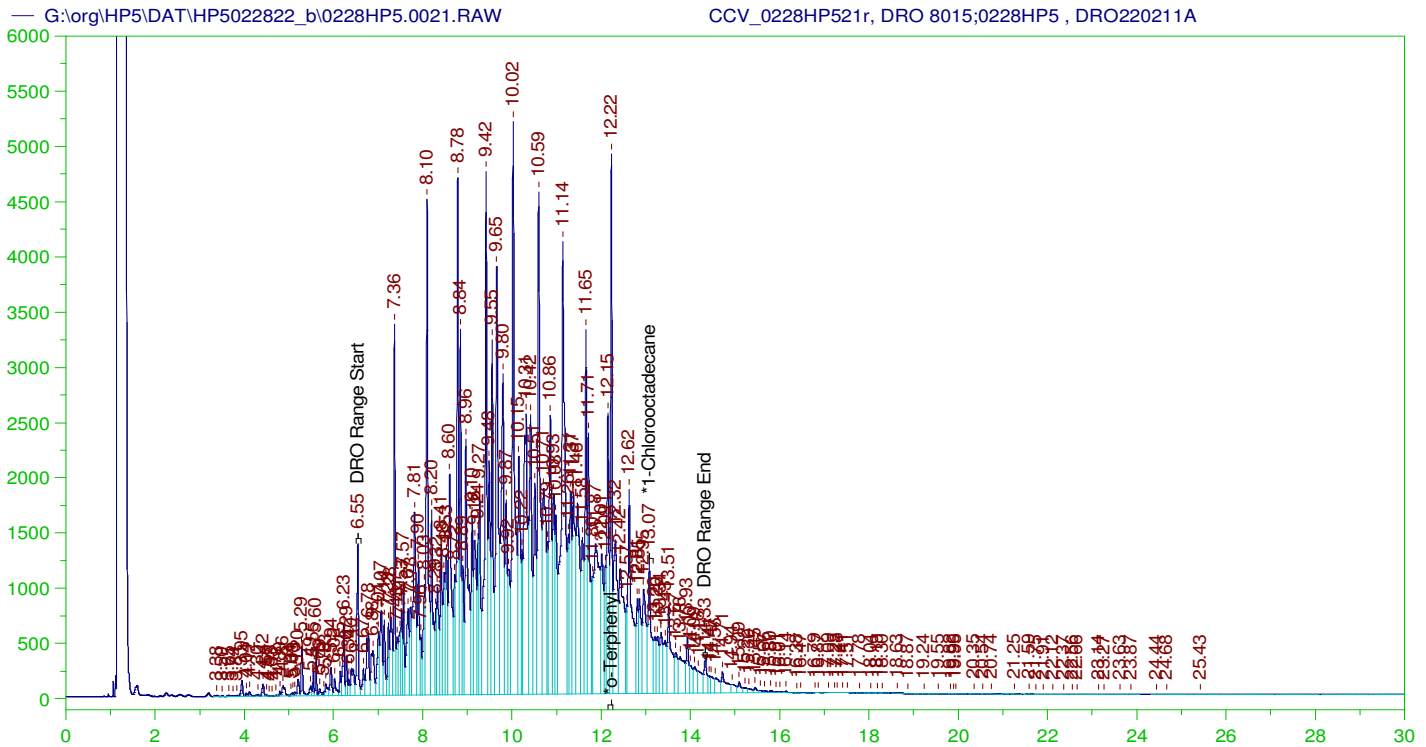
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.301 | 500. | 177.936 | 35.59 | - |

RRO Area:3567994 RRO AMOUNT: 135.0257

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0020.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .021 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.301 | 200. | 177.936 | 88.97 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0228HP521r, DRO 8015;0228HP5 , DRO220211A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0021.RAW
 Date & Time Acquired: 2/28/2022 10:05:44 PM
 Method File: G:\Org\HP5\Methods\DC_8015-C24-JFb-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.51 to 14.38

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.224 | 200. | 331.773 | 165.89 |
| *1-Chlorooctadecane | 13.073 | 200. | 161.935 | 80.97 |

DRO Area: 5.077157E+08 DRO Amount: 15538.18
 TEH Area: 5.252085E+08 TEH Amount: 16073.54

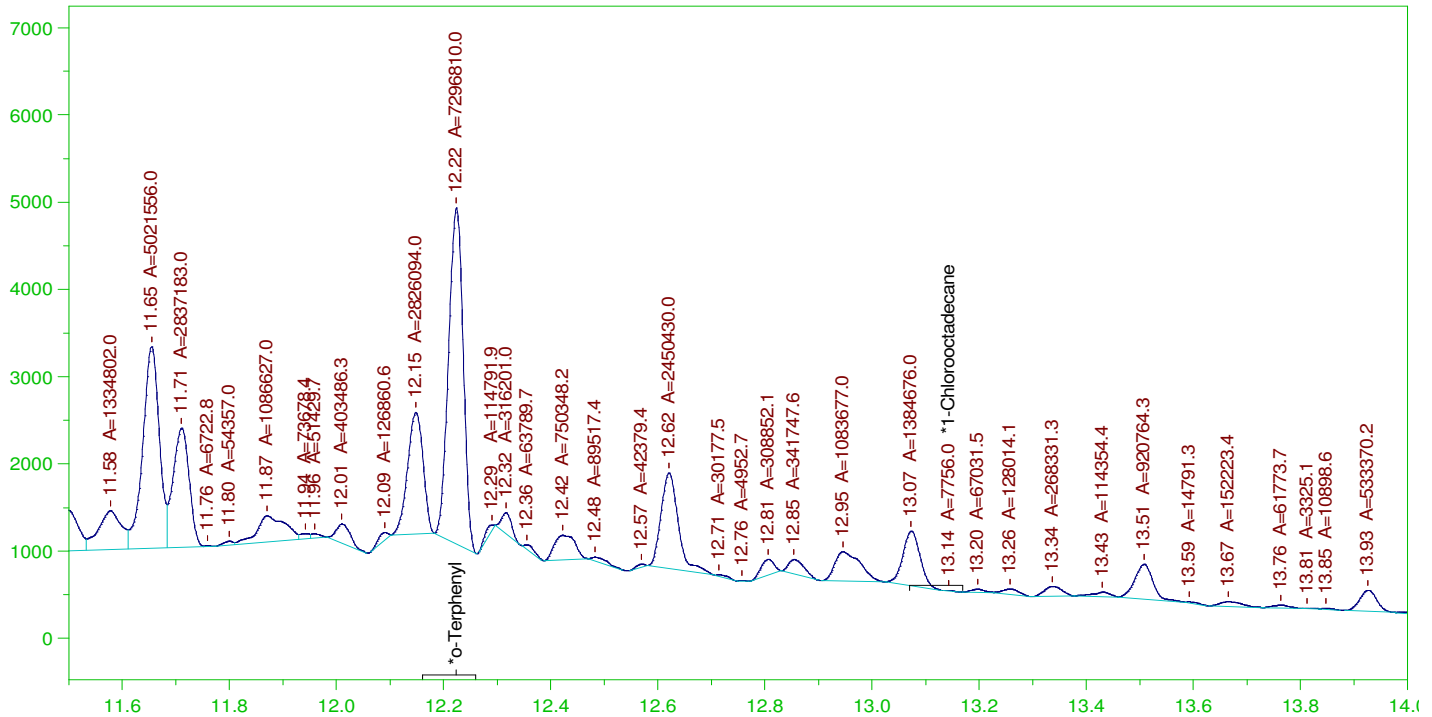
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0021.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 16073.54 | 107.16 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|--------|--------|
| *o-Terphenyl | 12.224 | 200. | 331.773 | 165.89 | 85-115 |
| *1-Chlorooctadecane | 13.073 | 200. | 161.935 | 80.97 | 85-115 |

G:\org\HP5\DAT\HP5022822_b\0228HP5.0021.RAW

CCV_0228HP521r, DRO 8015;0228HP5 , DRO220211A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0228HP521r, DRO 8015;0228HP5 , DRO220211A
 Raw File: G:\org\HP5\DAT\HP5022822_b\0228HP5.0021.RAW
 Date & Time Acquired: 2/28/2022 10:05:44 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JFb-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JFb-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.38

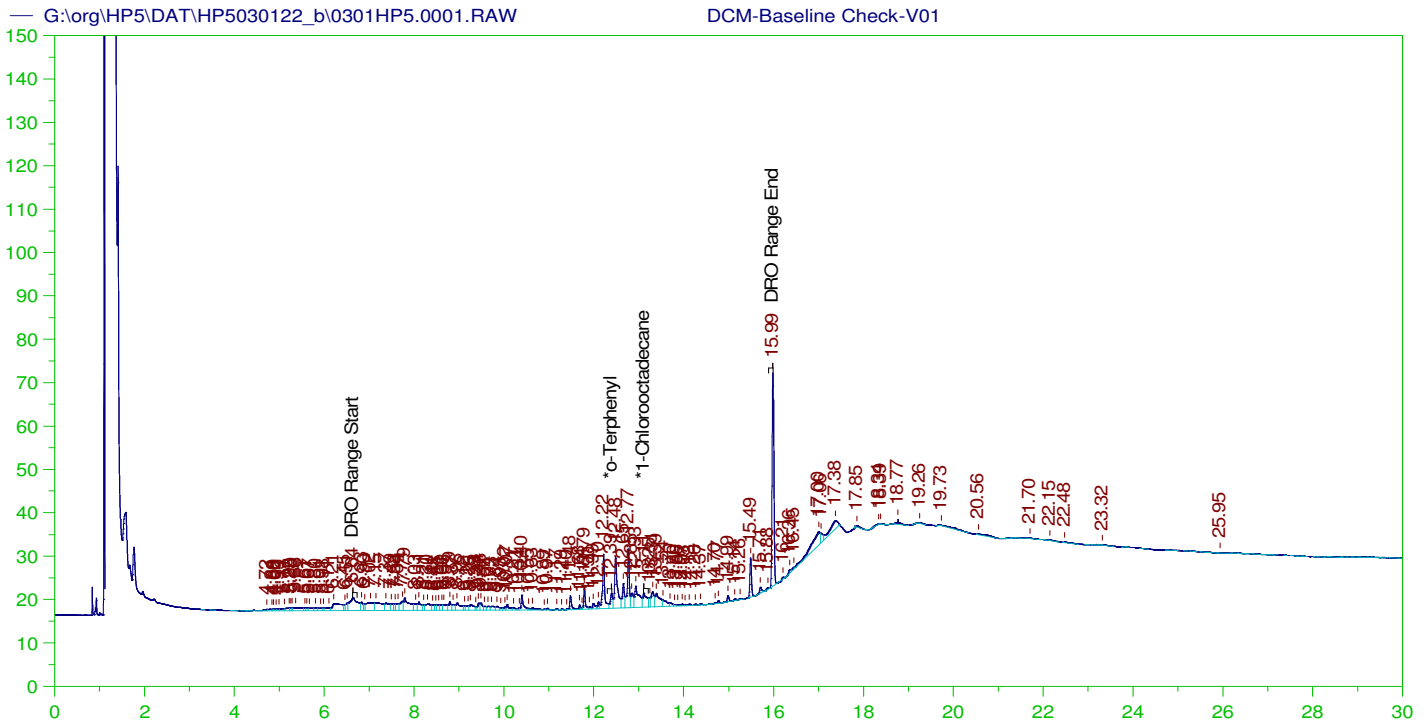
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.224 | 200. | 197.972 | 98.99 | - |
| *1-Chlorooctadecane | 13.143 | 200. | .21 | .11 | - |

DRO Area: 2.620536E+08 DRO Amount: 8019.916
 TEH Area: 2.73234E+08 TEH Amount: 8362.079

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5022822_b\0228HP5.0021.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 8362.08 | 55.75 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|-------|--------|
| *o-Terphenyl | 12.224 | 200. | 197.972 | 98.99 | 85-115 |
| *1-Chlorooctadecane | 13.143 | 200. | .21 | .11 | 85-115 |



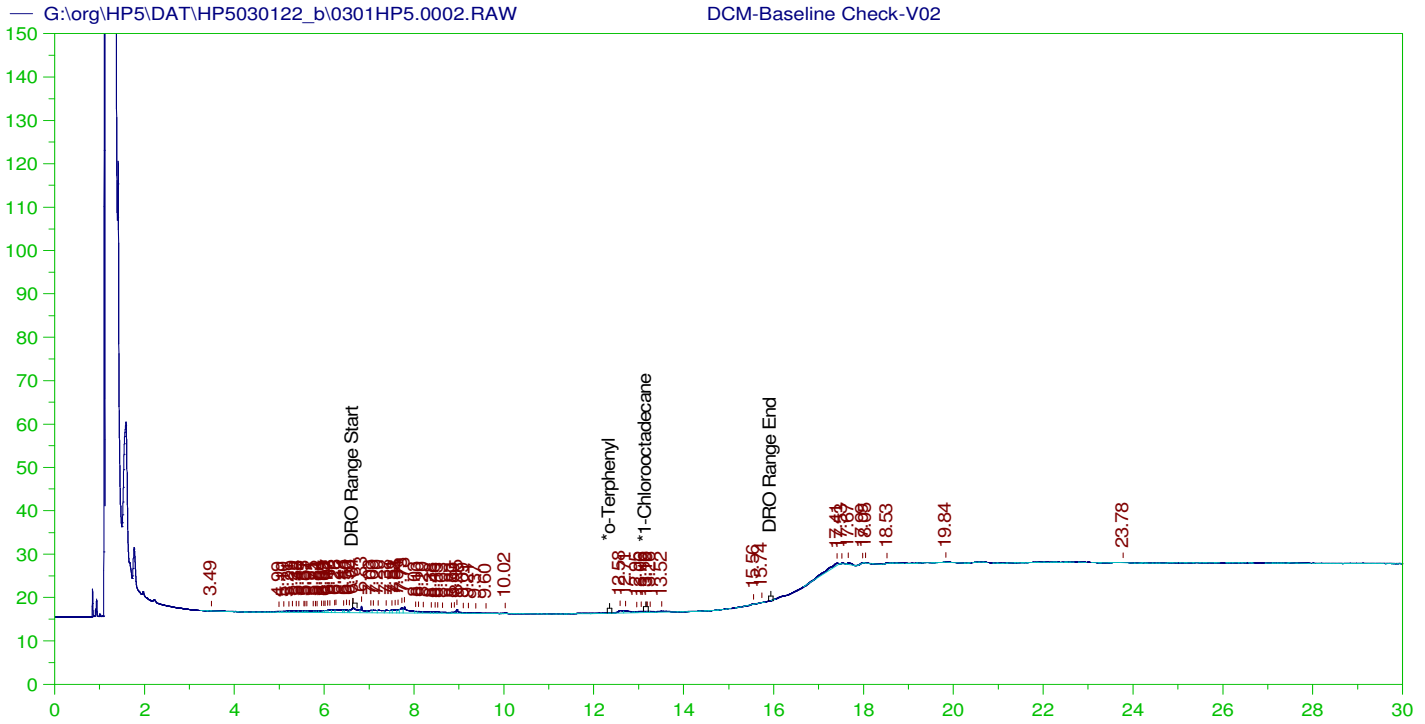
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V01
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0001.RAW
 Date & Time Acquired: 3/1/2022 9:26:15 AM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|------|---|
| *o-Terphenyl | 12.391 | 200. | .365 | .18 | - |
| *1-Chlorooctadecane | 13.113 | 200. | .571 | .29 | - |

DRO Area:802141.4 DRO Amount: 24.54881
 TEH Area:999896.4 TEH Amount: 30.60093



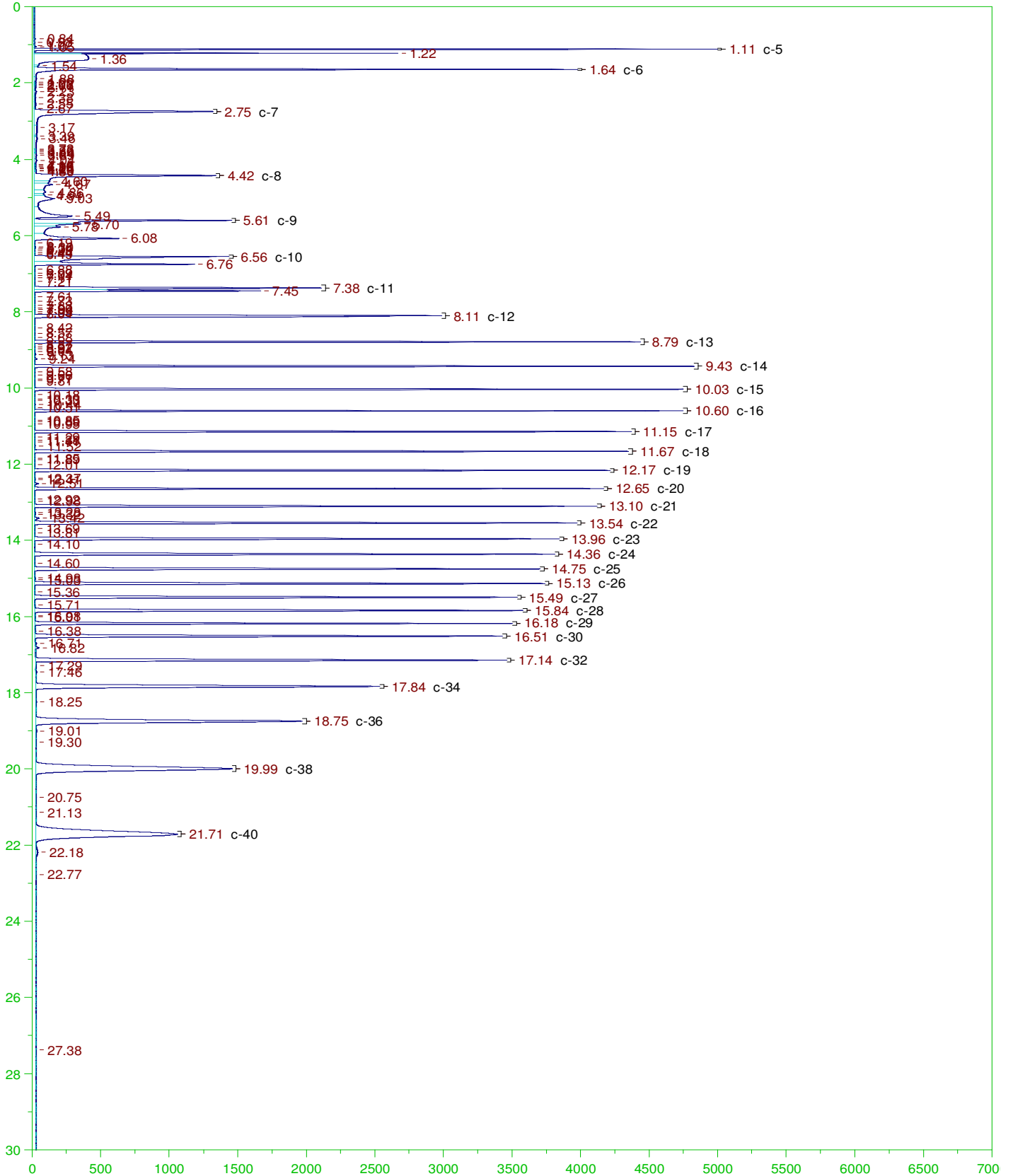
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

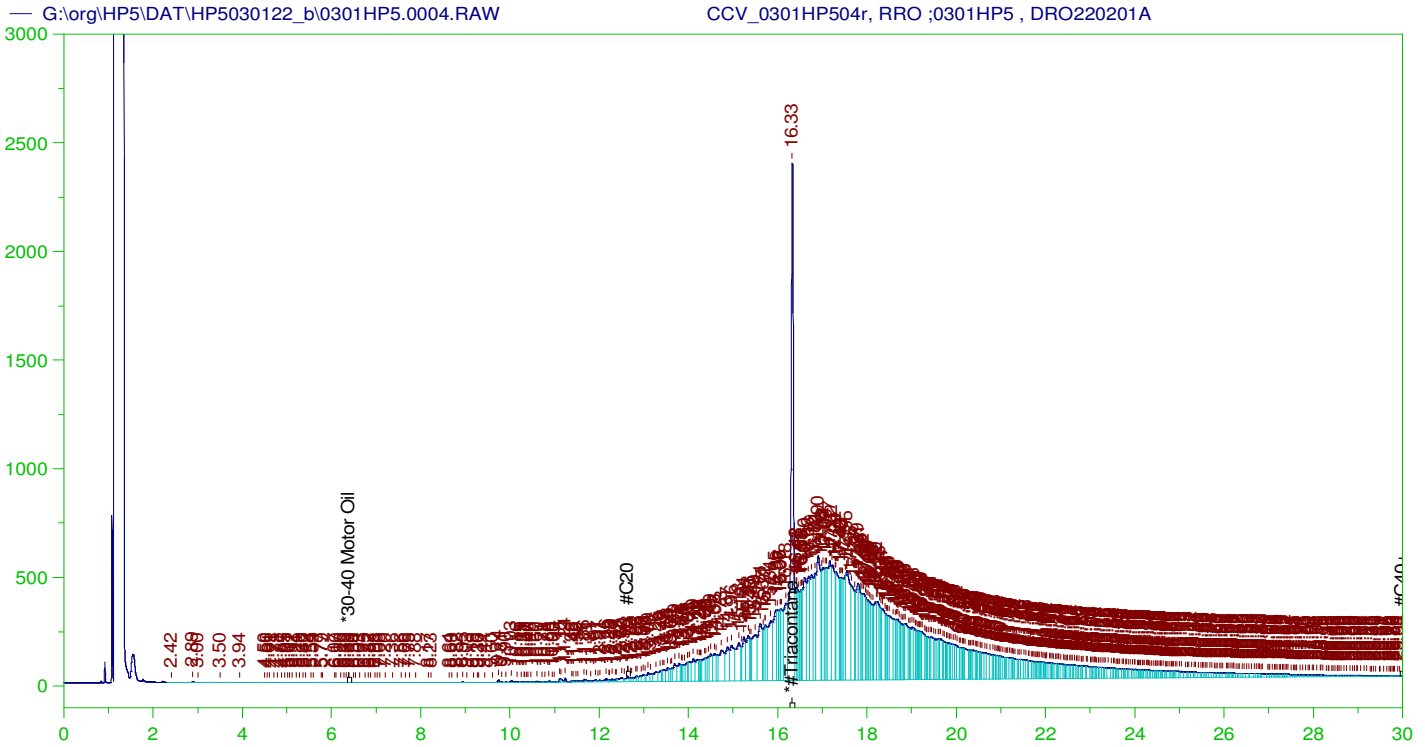
Sample Name: DCM-Baseline Check-V02
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0002.RAW
 Date & Time Acquired: 3/1/2022 10:08:41 AM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 29.917 | 200. | . | - |
| *1-Chlorooctadecane | 13.16 | 200. | .024 | .01 - |

DRO Area:103824.2 DRO Amount: 3.177445
 TEH Area:185694.5 TEH Amount: 5.683014





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0301HP504r, RRO ;0301HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0004.RAW
 Date & Time Acquired: 3/1/2022 11:33:37 AM
 Method File: G:\Org\HP5\Methods\DC_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.325 | 500. | 310.27 | 62.05 | - |

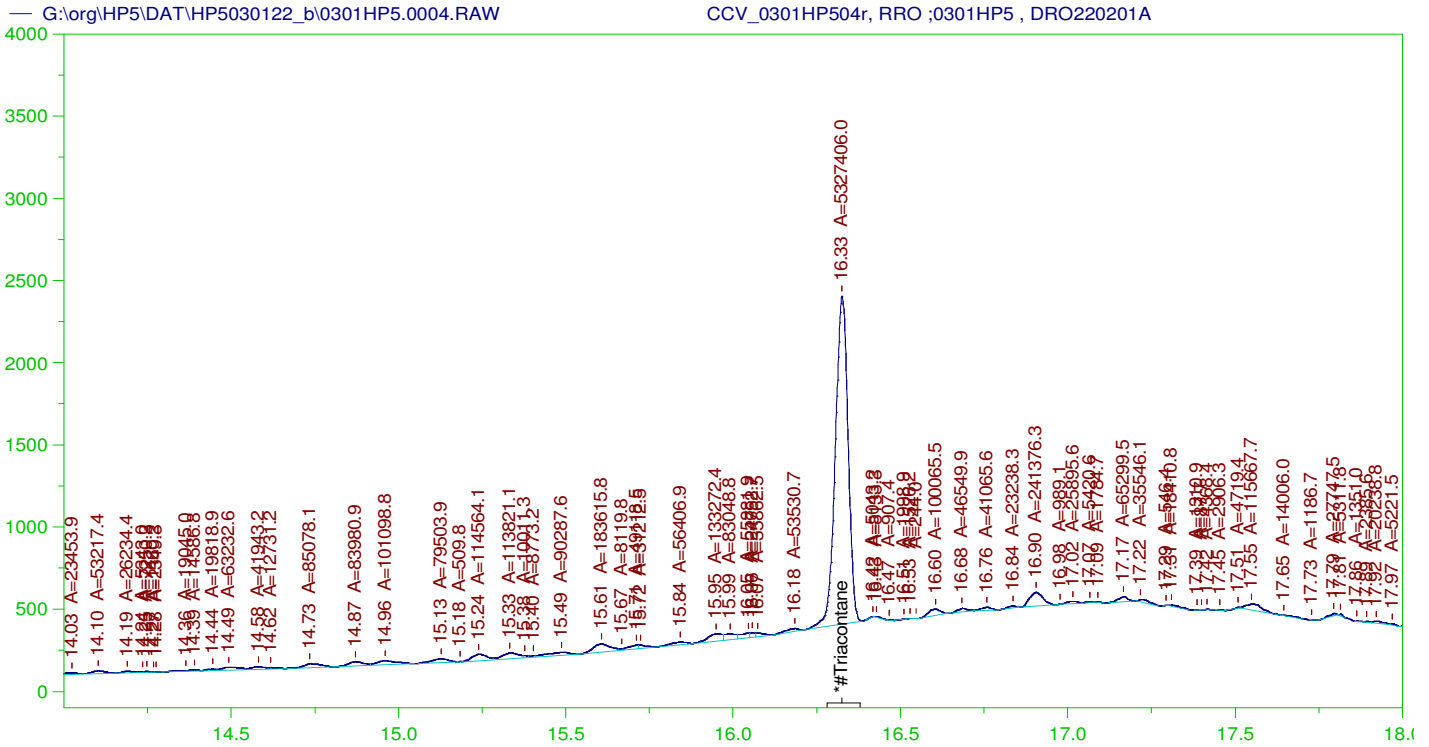
~~RRO~~ TEH(Oil Range) Area:1.274492E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4823.135

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0004.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .039 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|--------|--------|
| *#Triacontane | 16.325 | 200. | 310.27 | 155.13 | 75-125 |

AMN 03/02/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0301HP504r, RRO ;0301HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0004.RAW
 Date & Time Acquired: 3/1/2022 11:33:37 AM
 Method File: G:\Org\HP5\Methods\DS_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.6 to 30.05

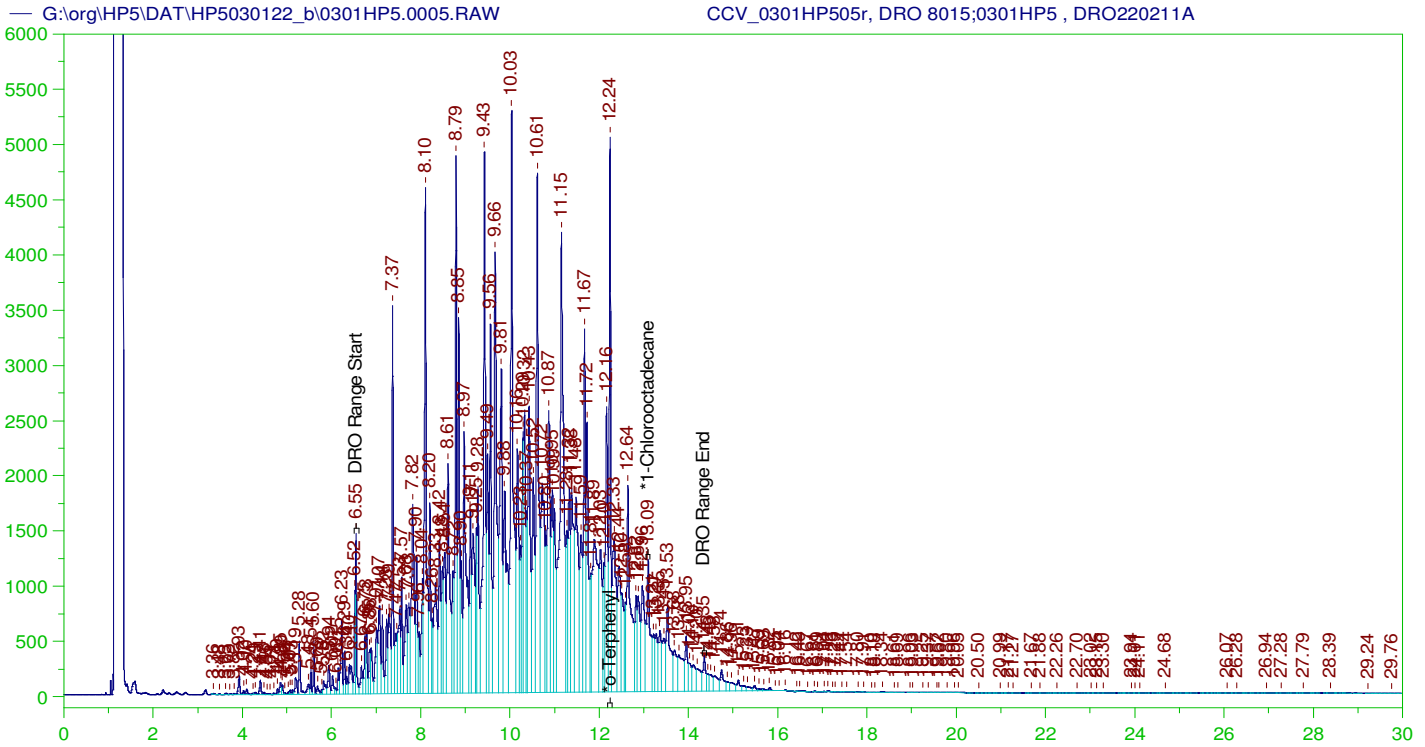
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.325 | 500. | 179.761 | 35.95 | - |

RRO Area:3250300 RRO AMOUNT: 123.003

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0004.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .039 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.325 | 200. | 179.761 | 89.88 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0301HP505r, DRO 8015;0301HP5 , DRO220211A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0005.RAW
 Date & Time Acquired: 3/1/2022 12:16:06 PM
 Method File: G:\Org\HP5\Methods\DC_8015-C24-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.239 | 200. | 335.946 | 167.97 |
| *1-Chlorooctadecane | 13.091 | 200. | 169.782 | 84.89 |

DRO Area: 5.179584E+08 DRO Amount: 15851.65
 TEH Area: 5.361378E+08 TEH Amount: 16408.02

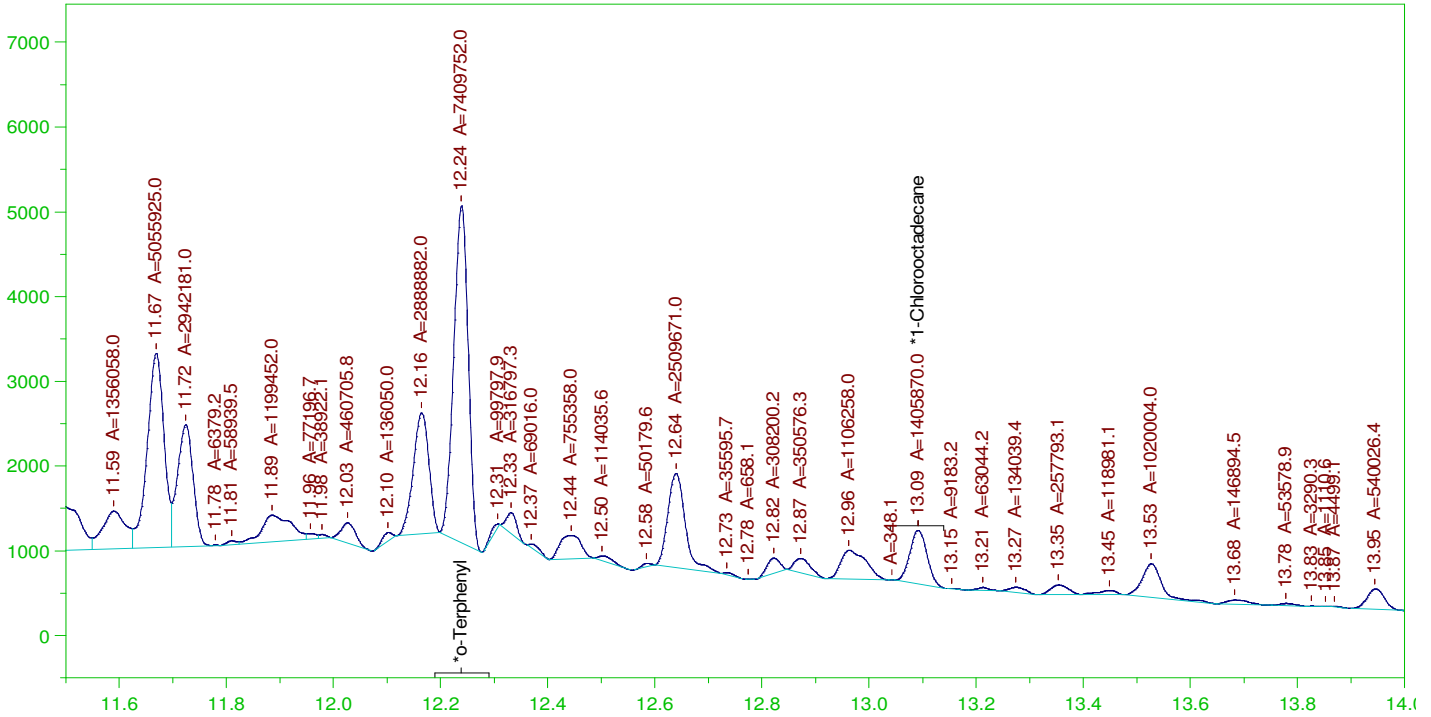
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0005.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 16408.02 | 109.39 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|--------|--------|
| *o-Terphenyl | 12.239 | 200. | 335.946 | 167.97 | 85-115 |
| *1-Chlorooctadecane | 13.091 | 200. | 169.782 | 84.89 | 85-115 |

G:\org\HP5\DAT\HP5030122_b\0301HP5.0005.RAW

CCV_0301HP505r, DRO 8015;0301HP5 , DRO220211A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0301HP505r, DRO 8015;0301HP5 , DRO220211A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0005.RAW
 Date & Time Acquired: 3/1/2022 12:16:06 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

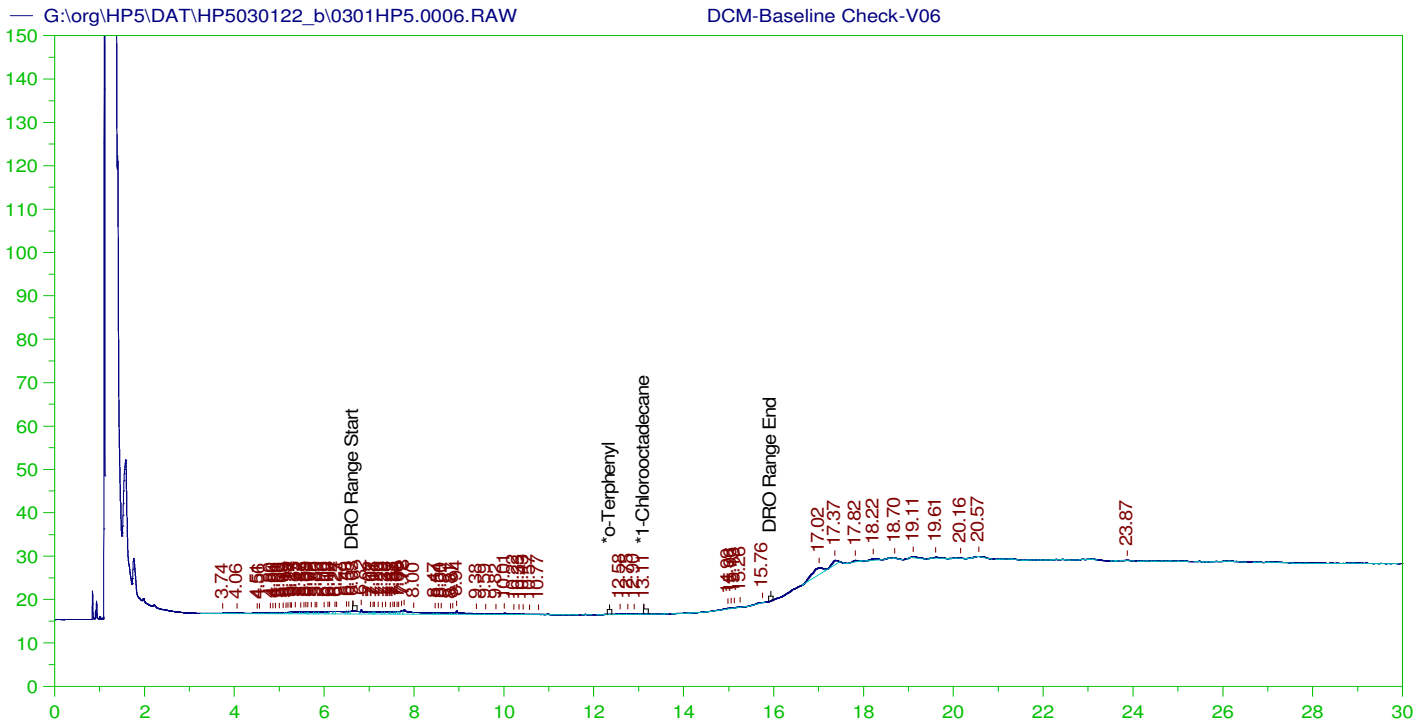
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.239 | 200. | 201.036 | 100.52 |
| *1-Chlorooctadecane | 13.091 | 200. | 38.143 | 19.07 |

DRO Area: 2.674341E+08 DRO Amount: 8184.581
 TEH Area: 2.791357E+08 TEH Amount: 8542.696

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0005.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 8542.7 | 56.95 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|--------|--------|
| *o-Terphenyl | 12.239 | 200. | 201.036 | 100.52 | 85-115 |
| *1-Chlorooctadecane | 13.091 | 200. | 38.143 | 19.07 | 85-115 |



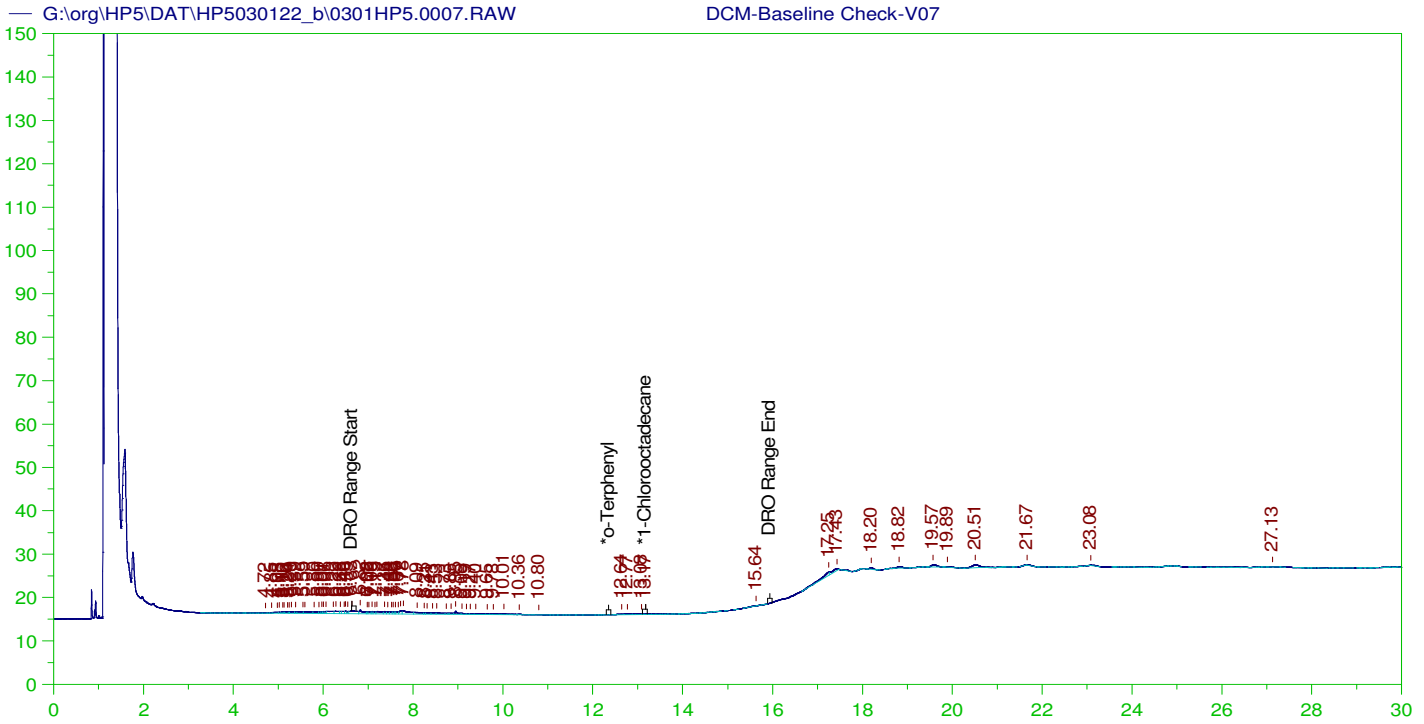
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V06
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0006.RAW
 Date & Time Acquired: 3/1/2022 12:58:27 PM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.847 | 200. | . | - |
| *1-Chlorooctadecane | 13.115 | 200. | .015 | .01 |

DRO Area:104394.3 DRO Amount: 3.194893
 TEH Area:233874.3 TEH Amount: 7.157512



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V07
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0007.RAW
 Date & Time Acquired: 3/1/2022 1:40:47 PM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

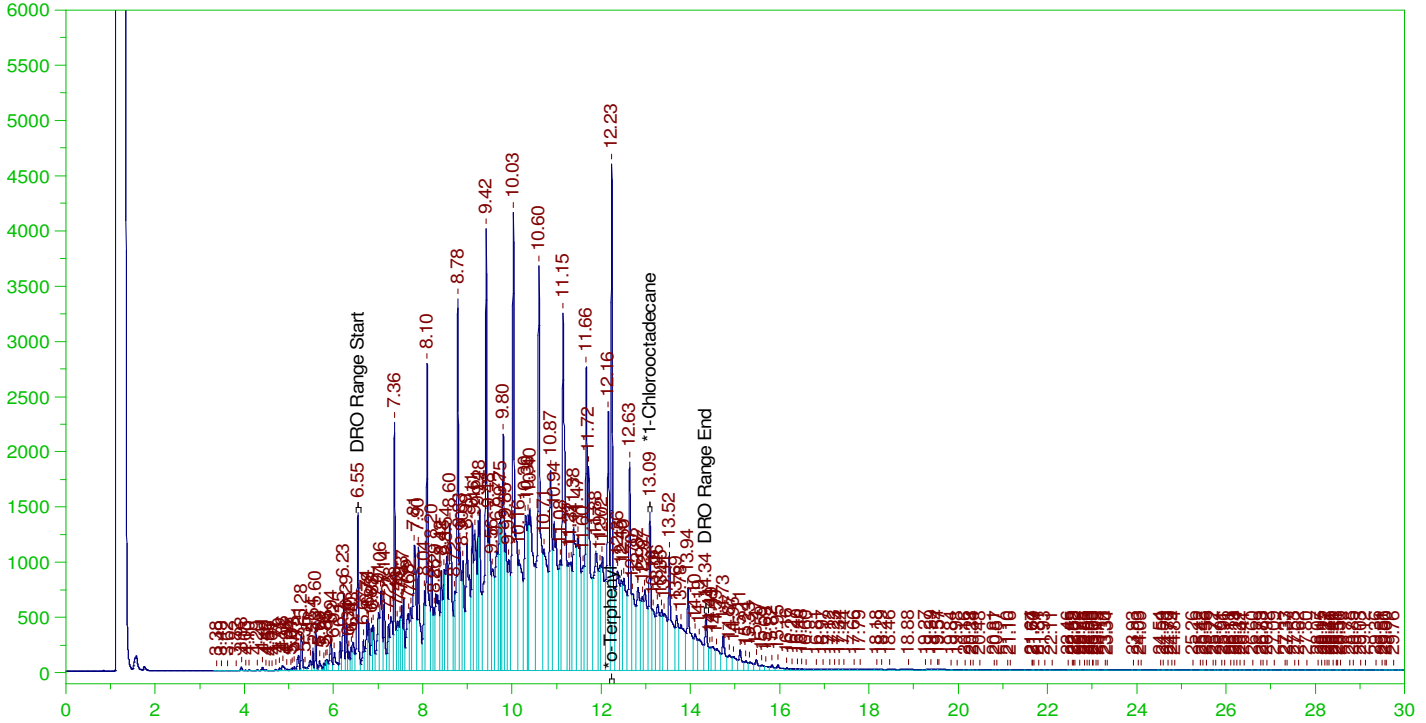
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.957 | 200. | . | - |
| *1-Chlorooctadecane | 13.172 | 200. | .019 | .01 |

DRO Area: 82033.51 DRO Amount: 2.510562
 TEH Area: 171771.4 TEH Amount: 5.256908

Batch ID: 164025

LCS-164025 ;0301HP5 , SGT

G:\org\HP5\DAT\HP5030122_b\0301HP5.0008.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0008.RAW
 Date & Time Acquired: 3/1/2022 2:23:19 PM
 Method File: G:\Org\HP5\Methods\D3_8015-C24-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

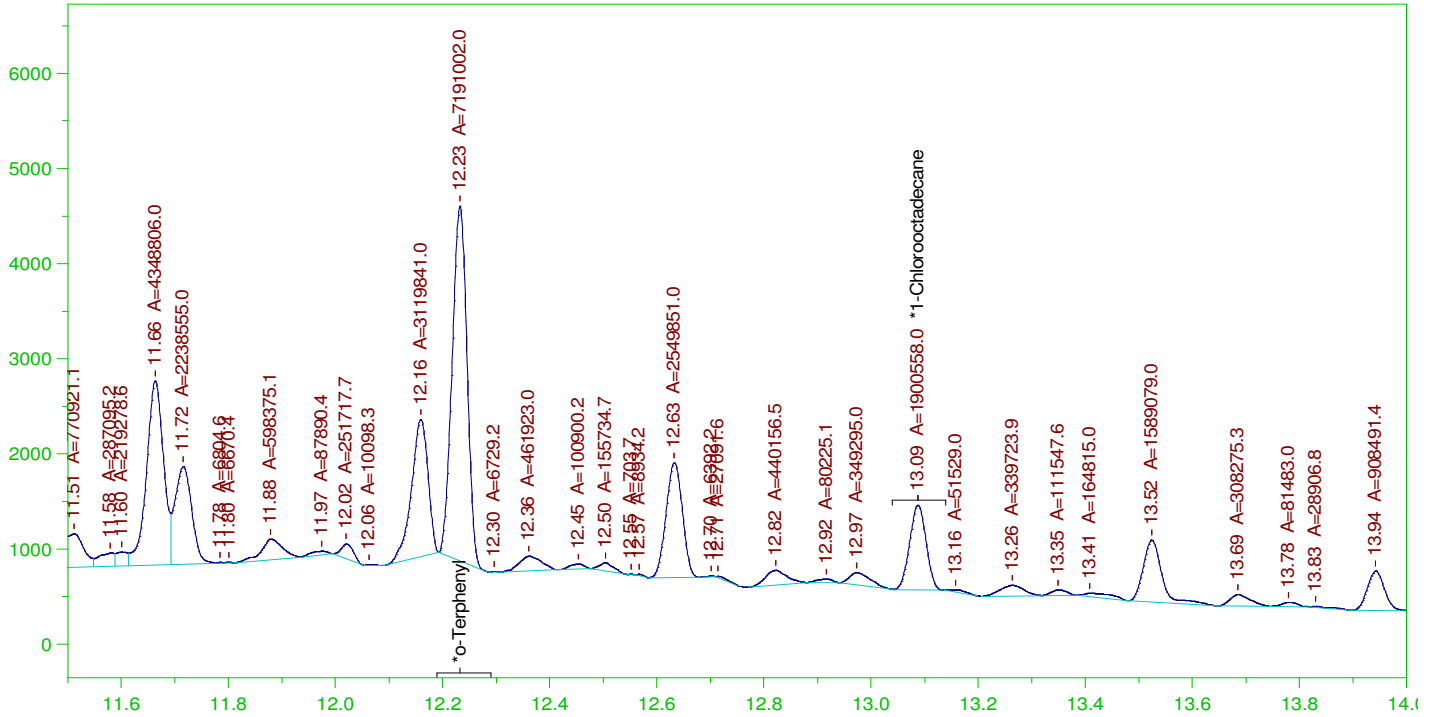
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.232 | .2 | .349 | 174.3 | - |
| *1-Chlorooctadecane | 13.087 | .2 | .137 | 68.7 | - |

DRO Area: 3.942857E+08 DRO Amount: 12.06676
 TEH Area: 4.1819E+08 TEH Amount: 12.79833

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0008.RAW

LCS-164025 ;0301HP5 , SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCS-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0008.RAW
 Date & Time Acquired: 3/1/2022 2:23:19 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

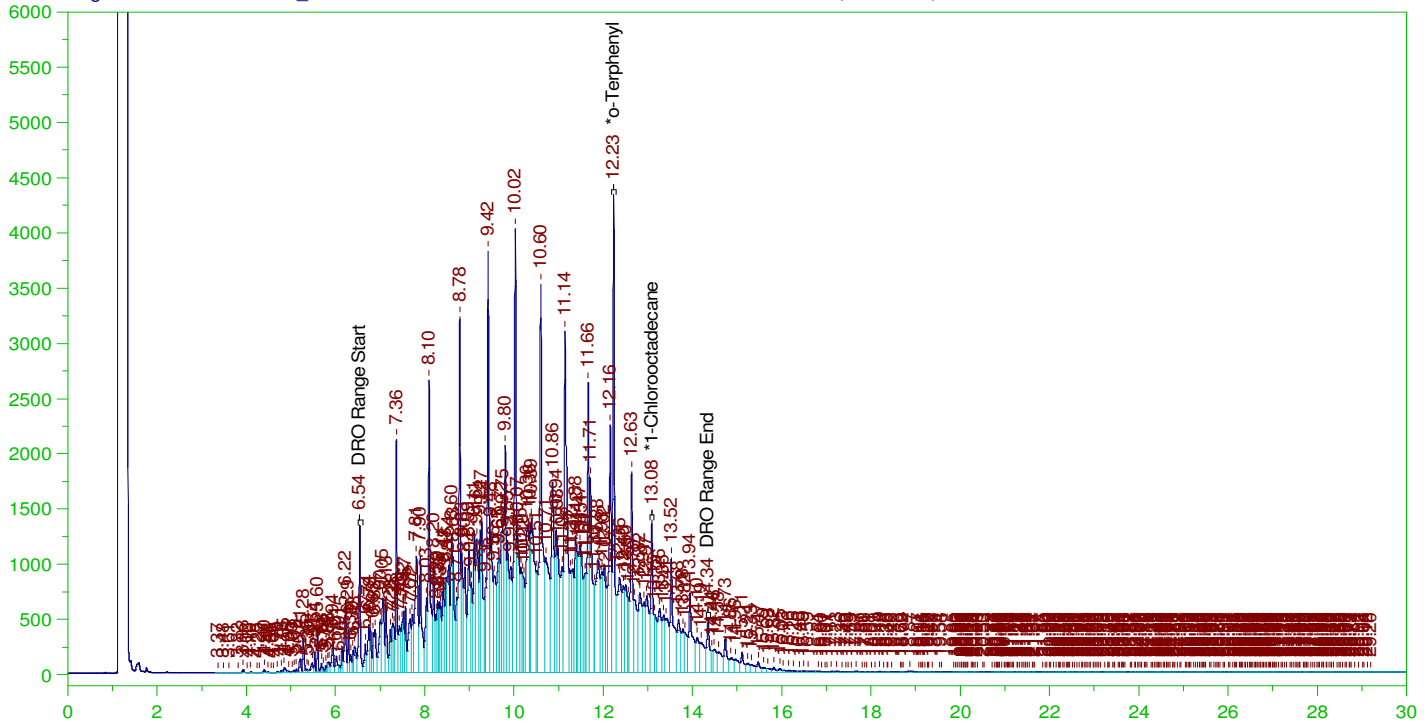
Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 12.232 | .2 | .195 | 97.55 |
| *1-Chlorooctadecane | 13.087 | .2 | .052 | 25.78 |

DRO Area: 1.80259E+08 DRO Amount: 5.516664
 TEH Area: 1.907457E+08 TEH Amount: 5.8376

Batch ID: 164025
LCSD-164025 ;0301HP5 , SGT

G:\org\HP5\DAT\HP5030122_b\0301HP5.0009.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0009.RAW
 Date & Time Acquired: 3/1/2022 3:05:57 PM
 Method File: G:\Org\HP5\Methods\D3_8015-030109-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

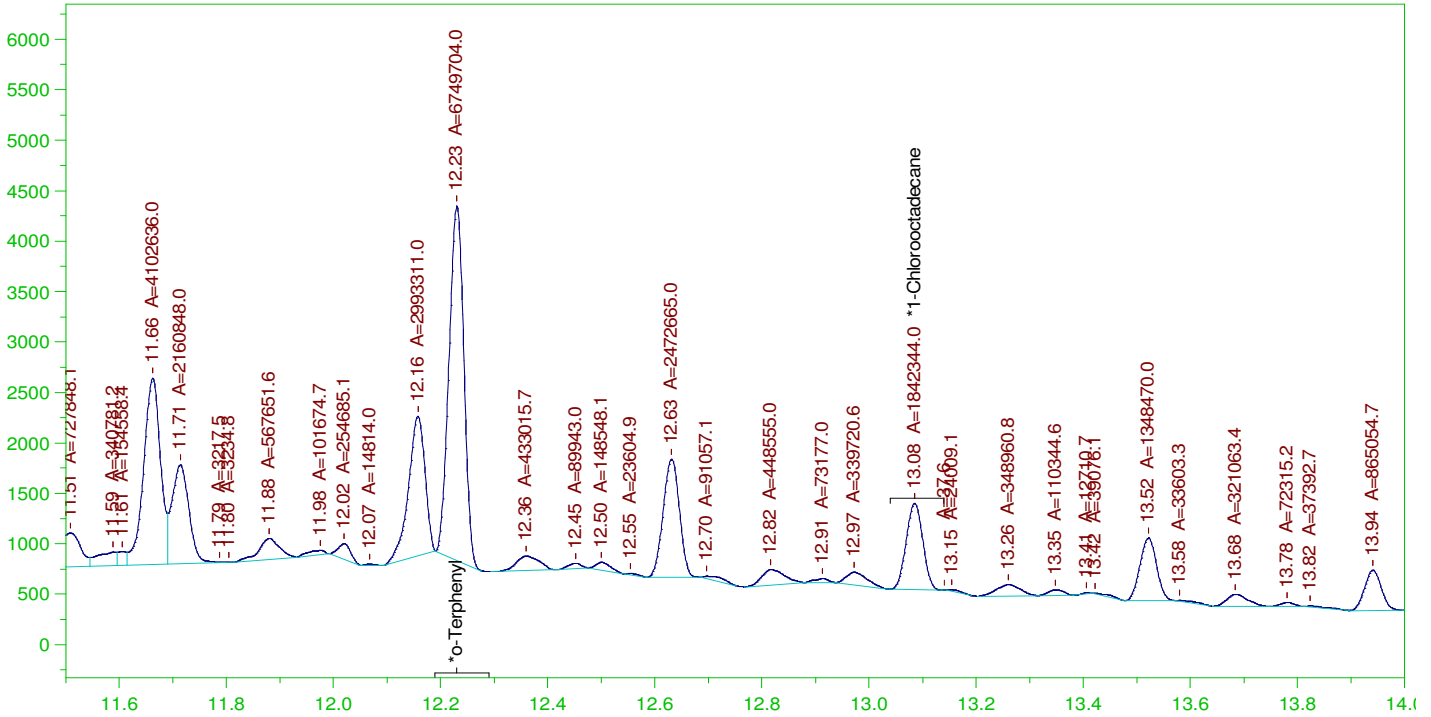
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.23 | .2 | .317 | 158.27 | - |
| *1-Chlorooctadecane | 13.085 | .2 | .142 | 71.04 | - |

DRO Area: 3.746679E+08 DRO Amount: 11.46638
 TEH Area: 3.96914E+08 TEH Amount: 12.1472

Batch ID: 164025

LCSD-164025 ;0301HP5 , SGT

G:\org\HP5\DAT\HP5030122_b\0301HP5.0009.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: LCSD-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0009.RAW
 Date & Time Acquired: 3/1/2022 3:05:57 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

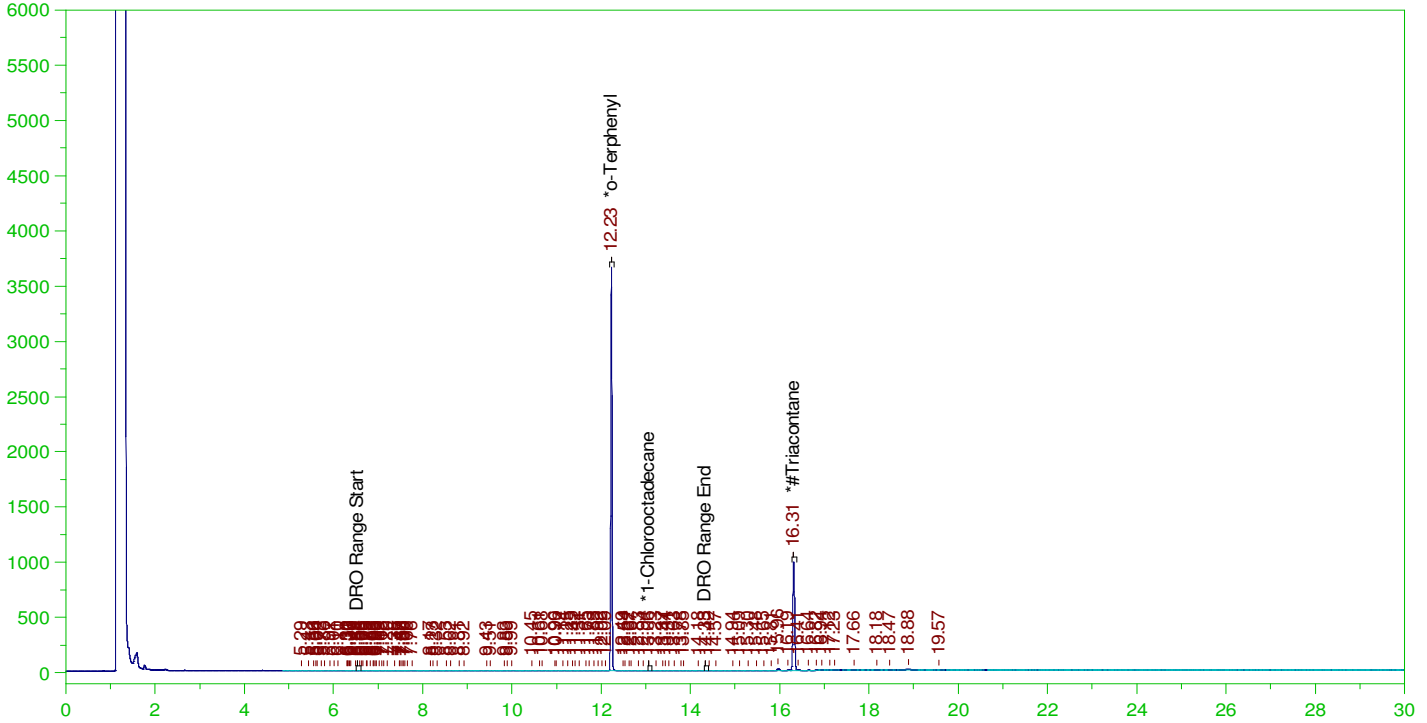
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 12.23 | .2 | .183 | 91.56 |
| *1-Chlorooctadecane | 13.085 | .2 | .05 | 24.99 |

DRO Area:1.709244E+08 DRO Amount: 5.230989
 TEH Area:1.806866E+08 TEH Amount: 5.529752

Batch ID: 164025

MB-164025 ;0301HP5 , SGT

G:\org\HP5\DAT\HP5030122_b\0301HP5.0010.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0010.RAW
 Date & Time Acquired: 3/1/2022 3:48:23 PM
 Method File: G:\Org\HP5\Methods\DR_8015-C24T-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24-T.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

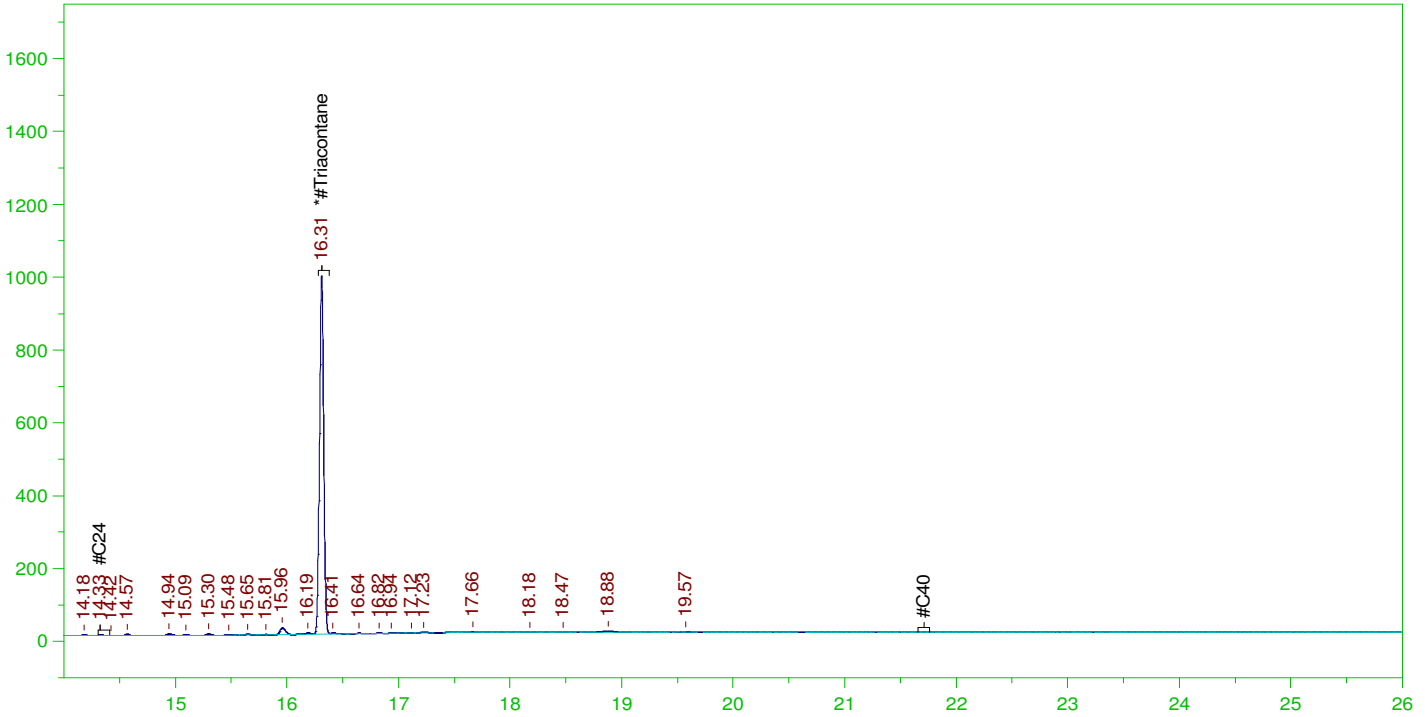
Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.225 | .2 | .196 | 98.12 | - |
| *1-Chlorooctadecane | 13.057 | .2 | . | .14 | - |
| *#Triacontane | 16.311 | .2 | .089 | 44.3 | - |

DRO Area:192136.4 DRO Amount: 5.880161E-03
 TEH Area:500325.8 TEH Amount: 1.531202E-02

G:\org\HP5\DAT\HP5030122_b\0301HP5.0010.RAW

MB-164025 ;0301HP5 , SGT



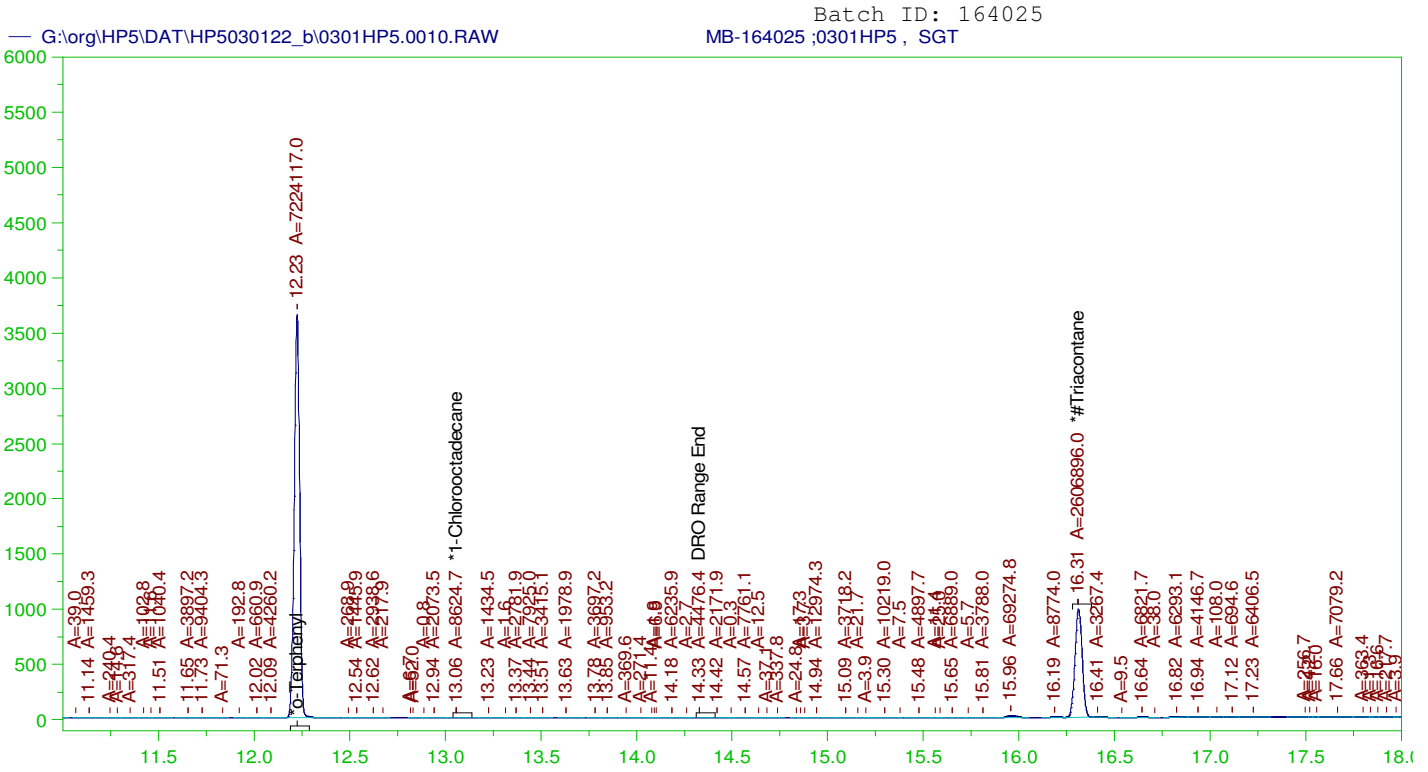
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: MB-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0010.RAW
 Date & Time Acquired: 3/1/2022 3:48:23 PM
 Method File: G:\Org\HP5\Methods\DR_OROS-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG_SAMP.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 14.31 to 21.76

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane_____ | 16.311 | .5 | .089 | 17.72 | - |

RRO Area:237274.2 RRO AMOUNT: 8.979307E-03



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: MB-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0010.RAW
 Date & Time Acquired: 3/1/2022 3:48:23 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24-T.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|---------|
| *o-Terphenyl | 12.225 | .2 | .196 | 98. - |
| *1-Chlorooctadecane | 13.057 | .2 | .12 | - |
| *#Triacontane | 16.311 | .2 | .088 | 43.98 - |

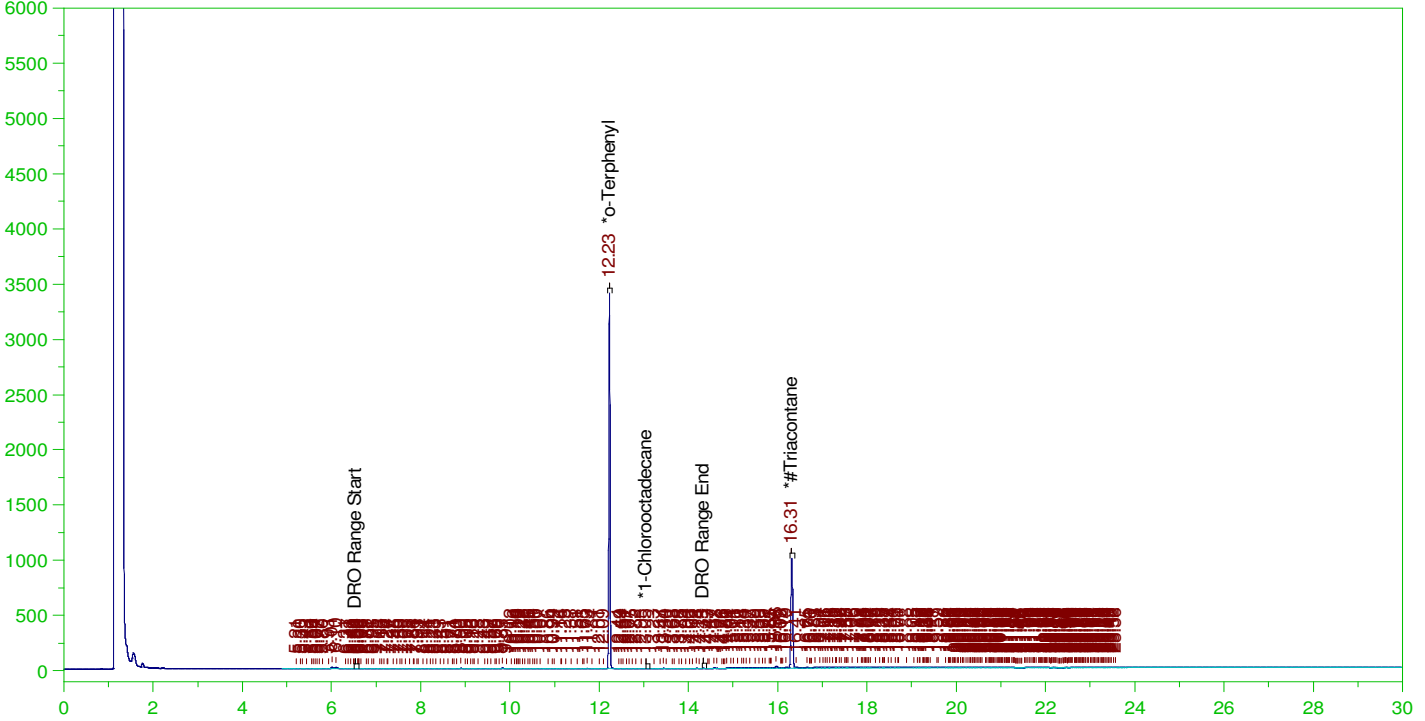
DRO Area:139675.8 DRO Amount: 4.274653E-03
 TEH Area:475816.2 TEH Amount: 1.456193E-02

ERH2565 (RHMW2254-01 Bailer)

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0011.RAW

B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0011.RAW
 Date & Time Acquired: 3/1/2022 4:30:48 PM
 Method File: G:\Org\HP5\Methods\DR_8015-030111-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24-T.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.225 | .19 | .171 | 89.88 | - |
| *1-Chlorooctadecane | 13.049 | .19 | . | .08 | - |
| *#Triacontane | 16.313 | .19 | .086 | 44.93 | - |

DRO Area:537915.5
 TEH Area:2849868

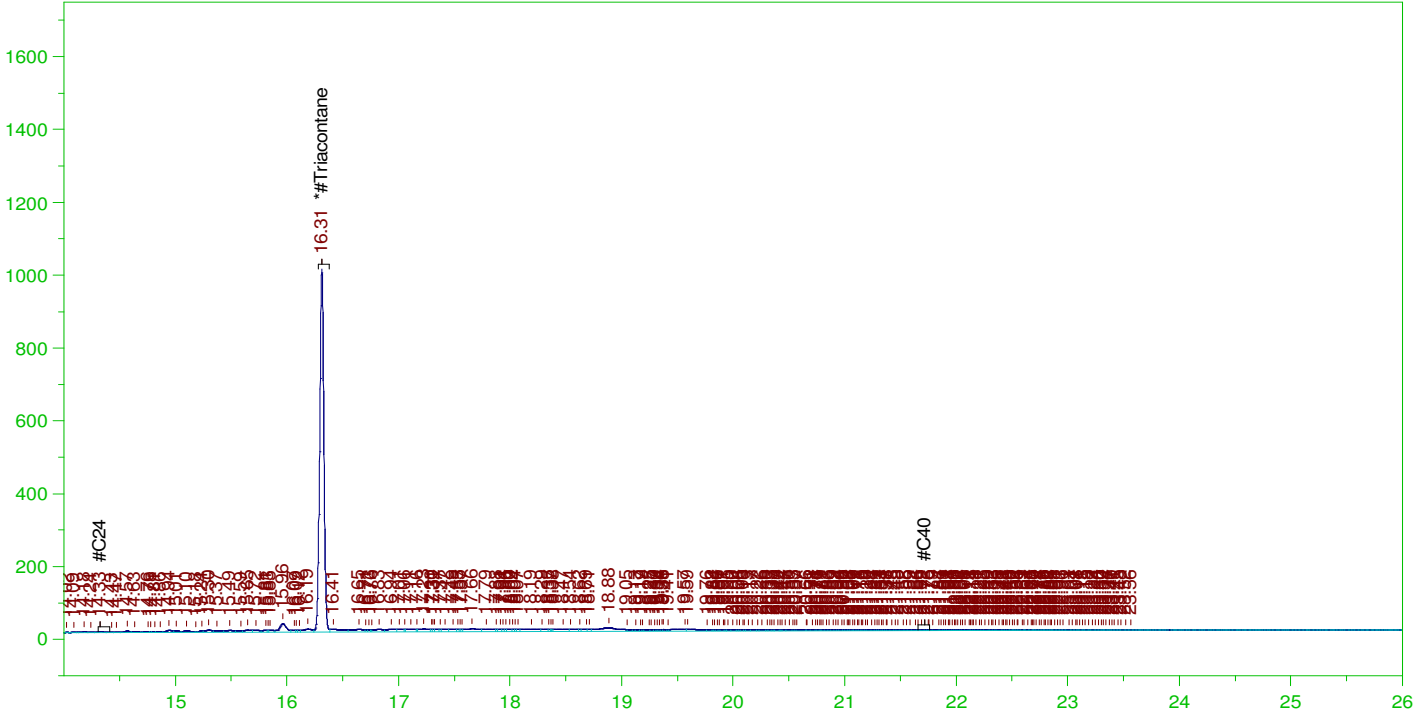
DRO Amount: 0.0156785
 TEH Amount: 8.306444E-02

ERH2565 (RHMW2254-01 Bailer)

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0011.RAW

B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0011.RAW
 Date & Time Acquired: 3/1/2022 4:30:48 PM
 Method File: G:\Org\HP5\Methods\D3_OROS-030111-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG_SAMP.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 14.31 to 21.76

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane_____ | 16.313 | .476 | .086 | 17.97 |

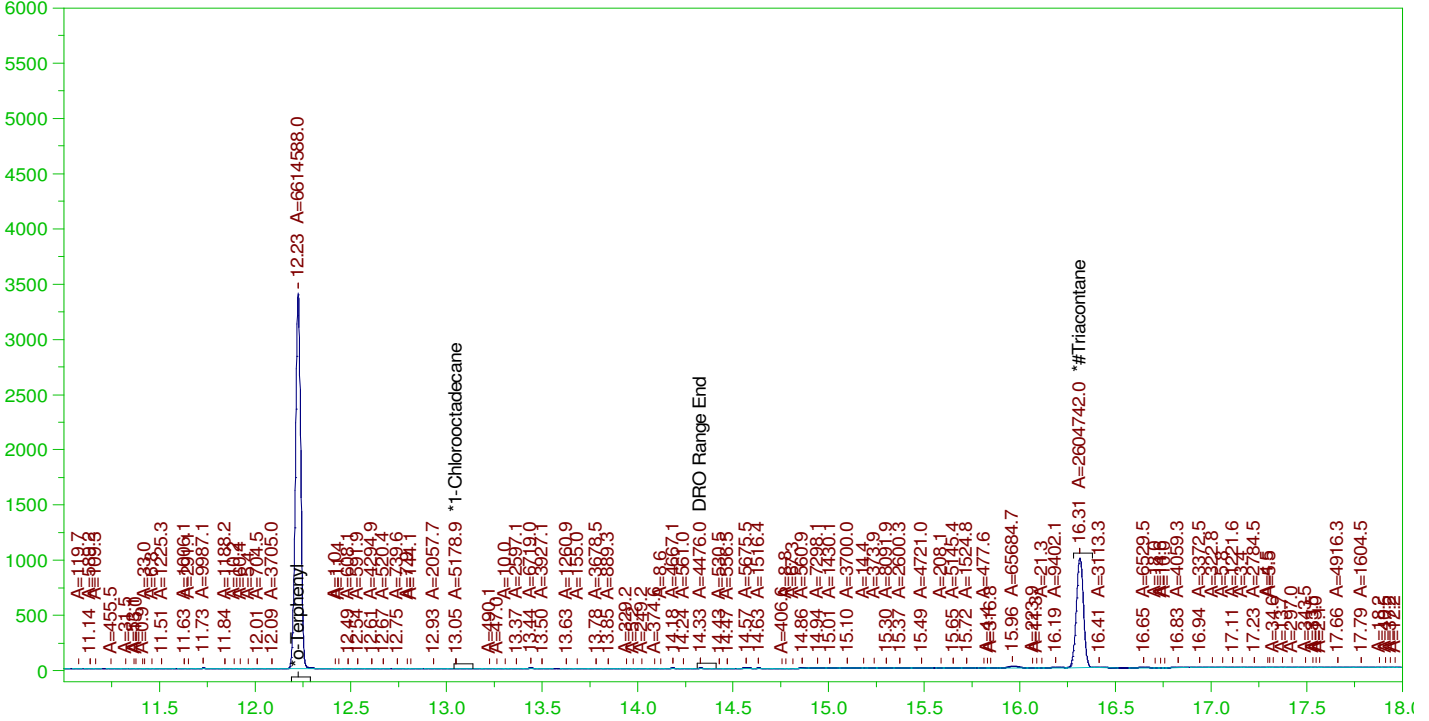
RRO Area:2015539 RRO AMOUNT: 0.0726431

ERH2565 (RHMW2254-01 Bailer)

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0011.RAW

B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-001D ;0301HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0011.RAW
 Date & Time Acquired: 3/1/2022 4:30:48 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24-T.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

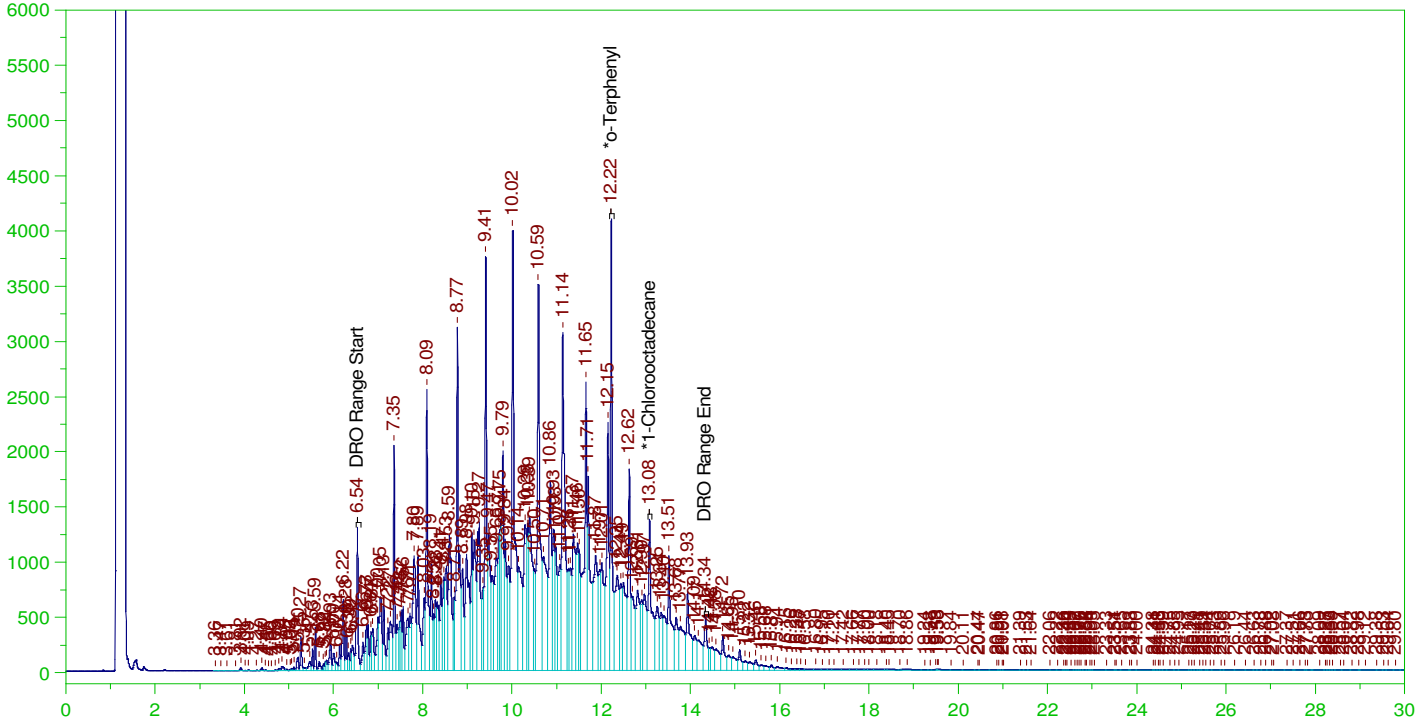
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.225 | .19 | .171 | 89.73 | - |
| *1-Chlorooctadecane | 13.049 | .19 | . | .07 | - |
| *#Triacontane | 16.313 | .19 | .084 | 43.95 | - |

DRO Area:437804.4 DRO Amount: 1.276058E-02
 TEH Area:823822.8 TEH Amount: 2.401177E-02

Batch ID: 164025

B22021627-001DMS ;0301HP5 , SGT

G:\org\HP5\DAT\HP5030122_b\0301HP5.0012.RAW



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

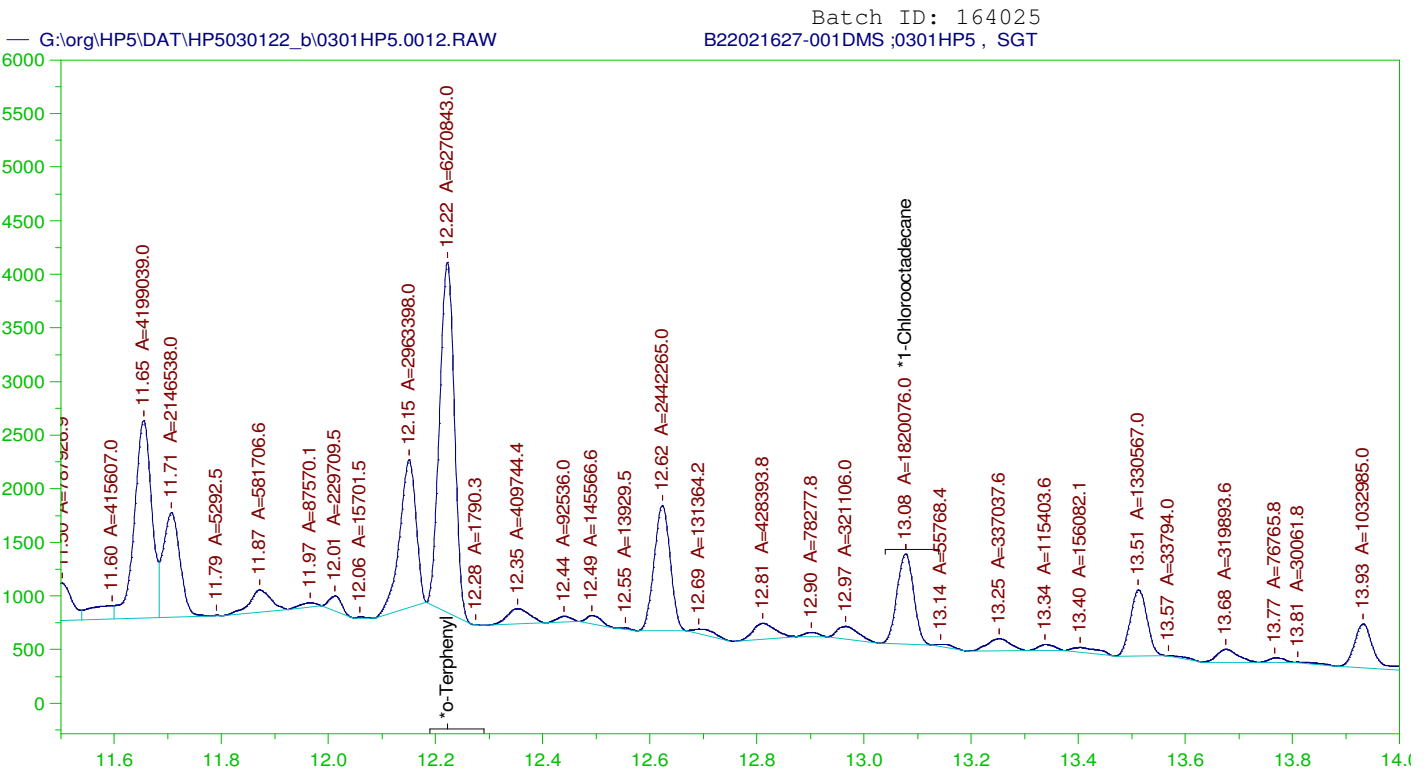
Sample Name: B22021627-001DMS ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0012.RAW
 Date & Time Acquired: 3/1/2022 5:13:36 PM
 Method File: G:\Org\HP5\Methods\D3_8015-C24-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.222 | .19 | .292 | 153.33 | - |
| *1-Chlorooctadecane | 13.078 | .19 | .177 | 92.74 | - |

DRO Area: 3.700296E+08 DRO Amount: 10.78516
 TEH Area: 3.928259E+08 TEH Amount: 11.4496



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

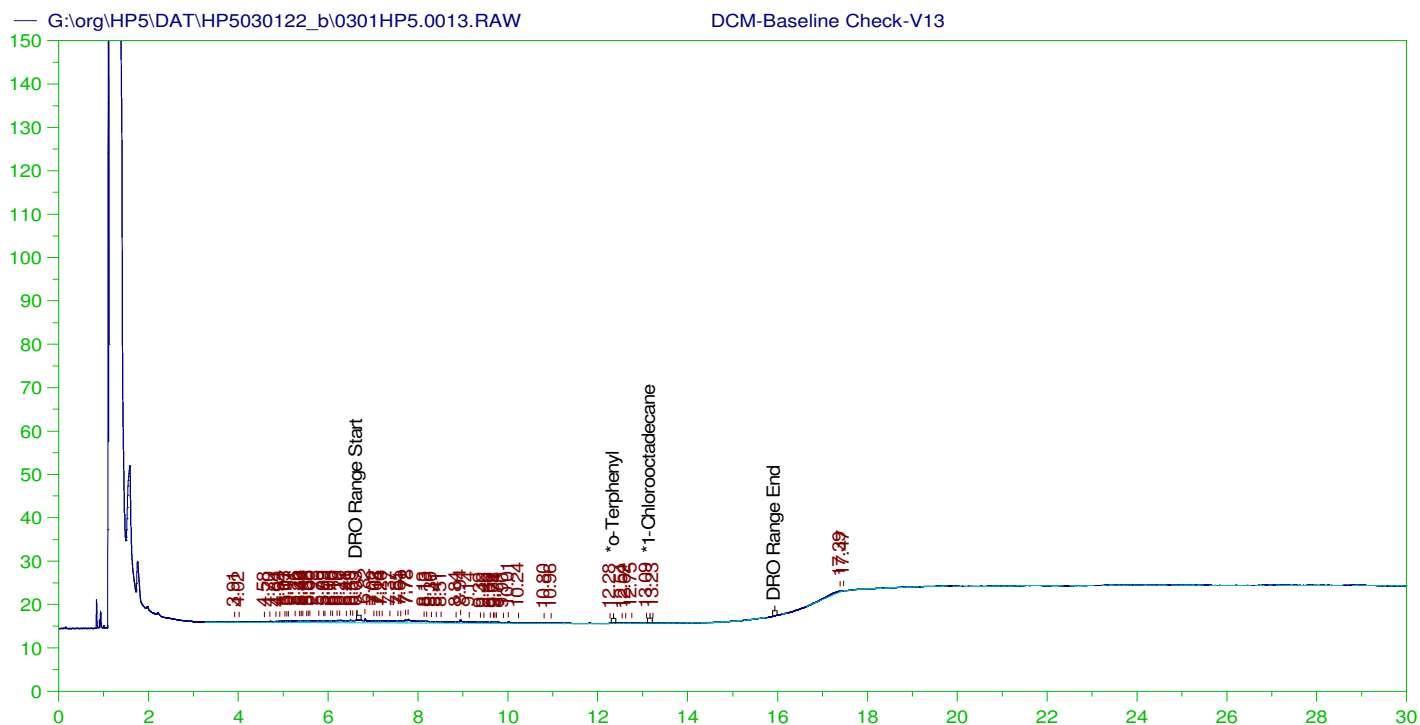
Sample Name: B22021627-001DMS ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0012.RAW
 Date & Time Acquired: 3/1/2022 5:13:36 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1050 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|-------|---|
| *o-Terphenyl | 12.222 | .19 | .162 | 85.07 | - |
| *1-Chlorooctadecane | 13.078 | .19 | .047 | 24.69 | - |

DRO Area: 1.681148E+08 DRO Amount: 4.900001
 TEH Area: 1.777364E+08 TEH Amount: 5.180439



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V13
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0013.RAW
 Date & Time Acquired: 3/1/2022 5:56:19 PM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.929 | 200. | . | - |
| *1-Chlorooctadecane | 29.929 | 200. | . | - |

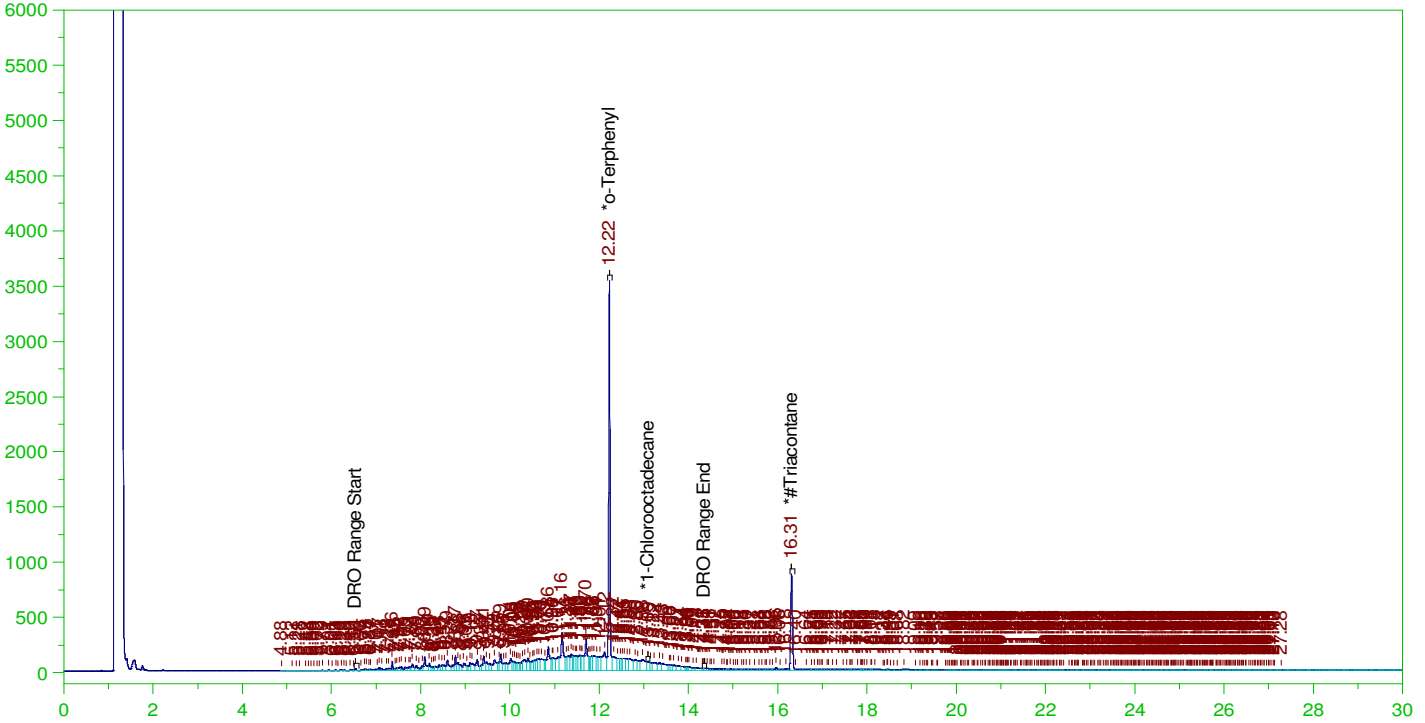
DRO Area:102142.5 DRO Amount: 3.12598
 TEH Area:179174.5 TEH Amount: 5.483474

ERH2569 (Sump Adit 3)

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0014.RAW

B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0014.RAW
 Date & Time Acquired: 3/1/2022 6:39:01 PM
 Method File: G:\Org\HP5\Methods\DR_8015-030114-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24-T.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|---------------------|--------|--------|----------|--------|---|
| *o-Terphenyl | 12.224 | .189 | .194 | 102.94 | - |
| *1-Chlorooctadecane | 13.089 | .189 | .01 | 5.31 | - |
| *#Triacontane | 16.307 | .189 | .075 | 39.95 | - |

DRO Area: 3.283126E+07 DRO Amount: 0.9478972

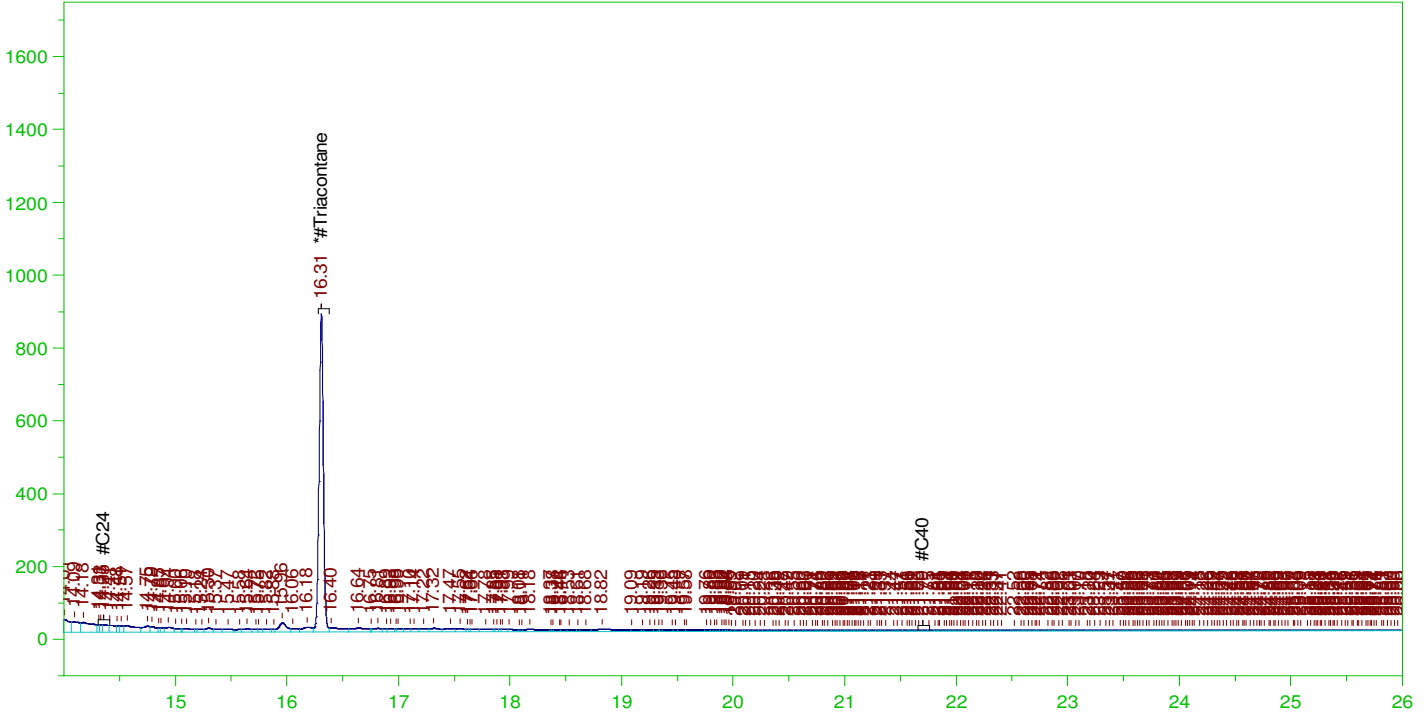
TEH Area: 3.657471E+07 TEH Amount: 1.055977

ERH2569 (Sump Adit 3)

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0014.RAW

B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0014.RAW
 Date & Time Acquired: 3/1/2022 6:39:01 PM
 Method File: G:\Org\HP5\Methods\D3_OROS-030114-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG_SAMP.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 14.31 to 21.76

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane_____ | 16.307 | .472 | .075 | 15.98 |

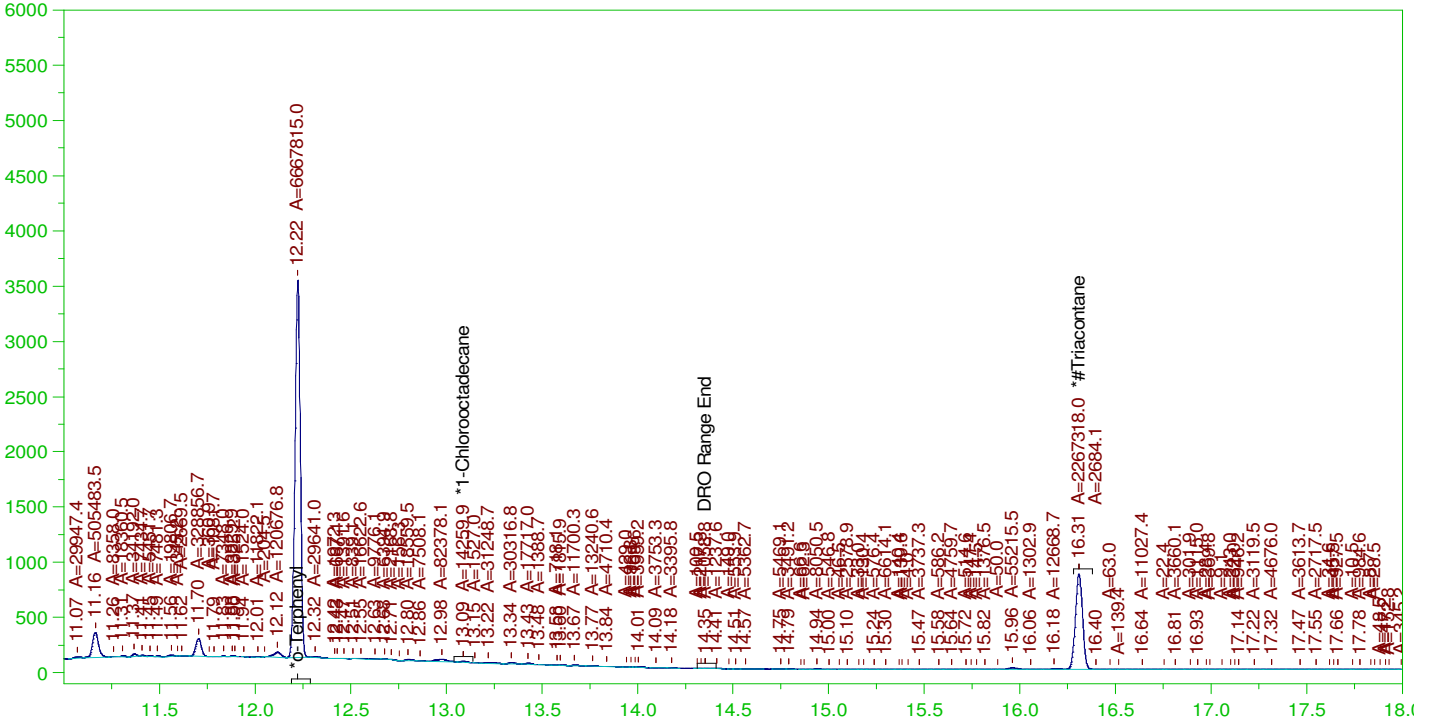
RRO Area:3233399 RRO AMOUNT: 0.1154372

ERH2569 (Sump Adit 3)

Batch ID: 164025

G:\org\HP5\DAT\HP5030122_b\0301HP5.0014.RAW

B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

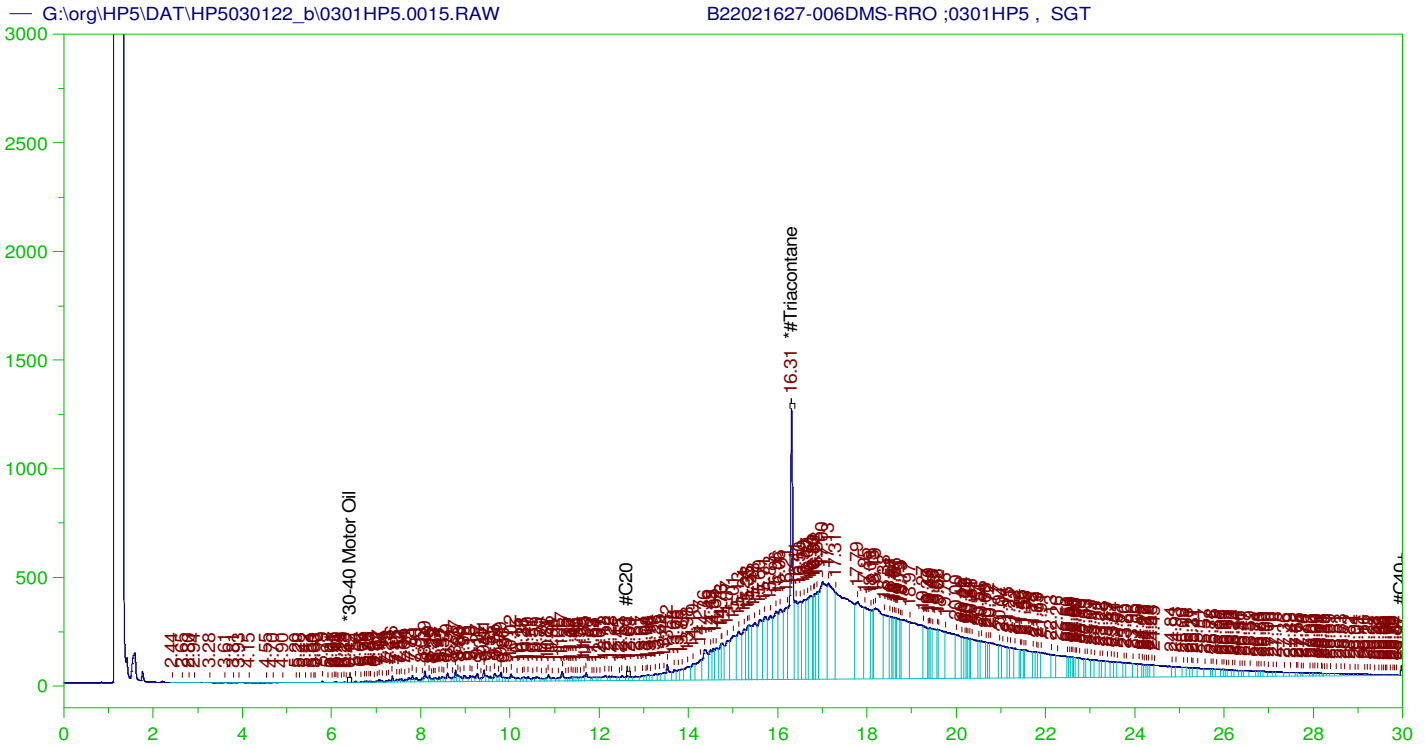
Sample Name: B22021627-006D ;0301HP5 , \$HC-8015-DRO-W, SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0014.RAW
 Date & Time Acquired: 3/1/2022 6:39:01 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24T-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24-T.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 12.224 | .189 | .171 | 90.45 |
| *1-Chlorooctadecane | 13.089 | .189 | . | .19 |
| *#Triacontane | 16.307 | .189 | .072 | 38.25 |

DRO Area:6191413 DRO Amount: 0.1787572
 TEH Area:6520698 TEH Amount: 0.1882642



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-006DMS-RRO ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0015.RAW
 Date & Time Acquired: 3/1/2022 7:21:49 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.6 to 30.05

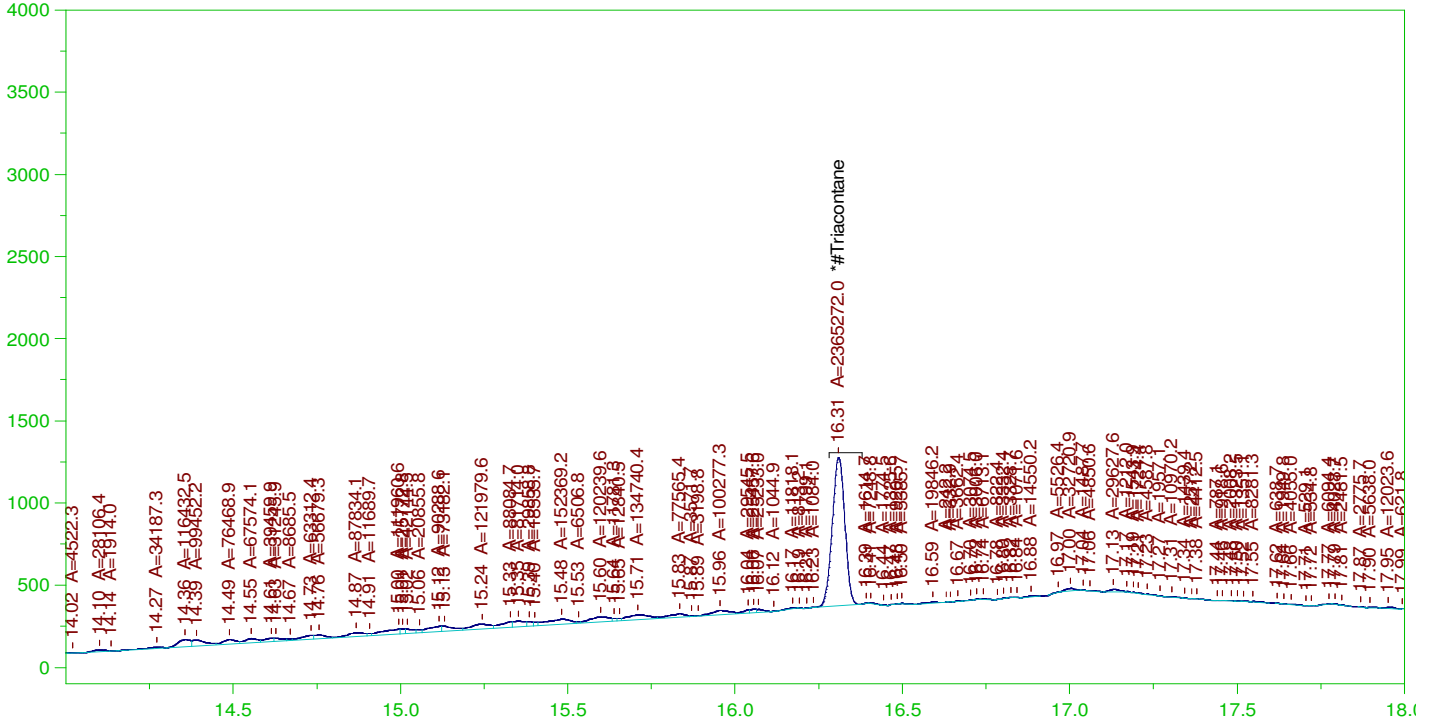
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane_____ | 16.309 | .472 | .172 | 36.41 | - |

~~RRO~~ TEH(Oil Range) Area:1.346265E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 4.80637

AMN 03/02/2022

G:\org\HP5\DAT\HP5030122_b\0301HP5.0015.RAW

B22021627-006DMS-RRO ;0301HP5 , SGT



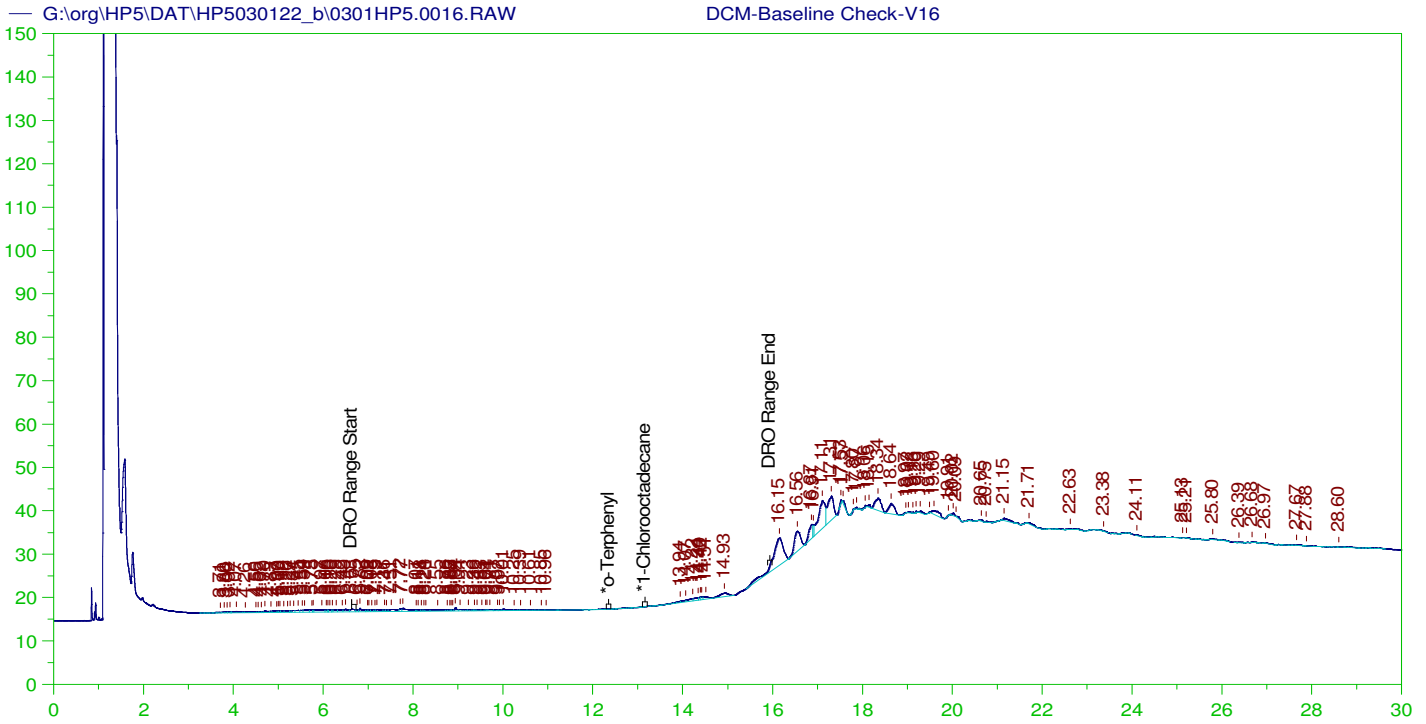
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: B22021627-006DMS-RRO ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0015.RAW
 Date & Time Acquired: 3/1/2022 7:21:49 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1060 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane | 16.309 | .472 | .075 | 15.96 |

RRO Area:3029783 RRO AMOUNT: 0.1081678



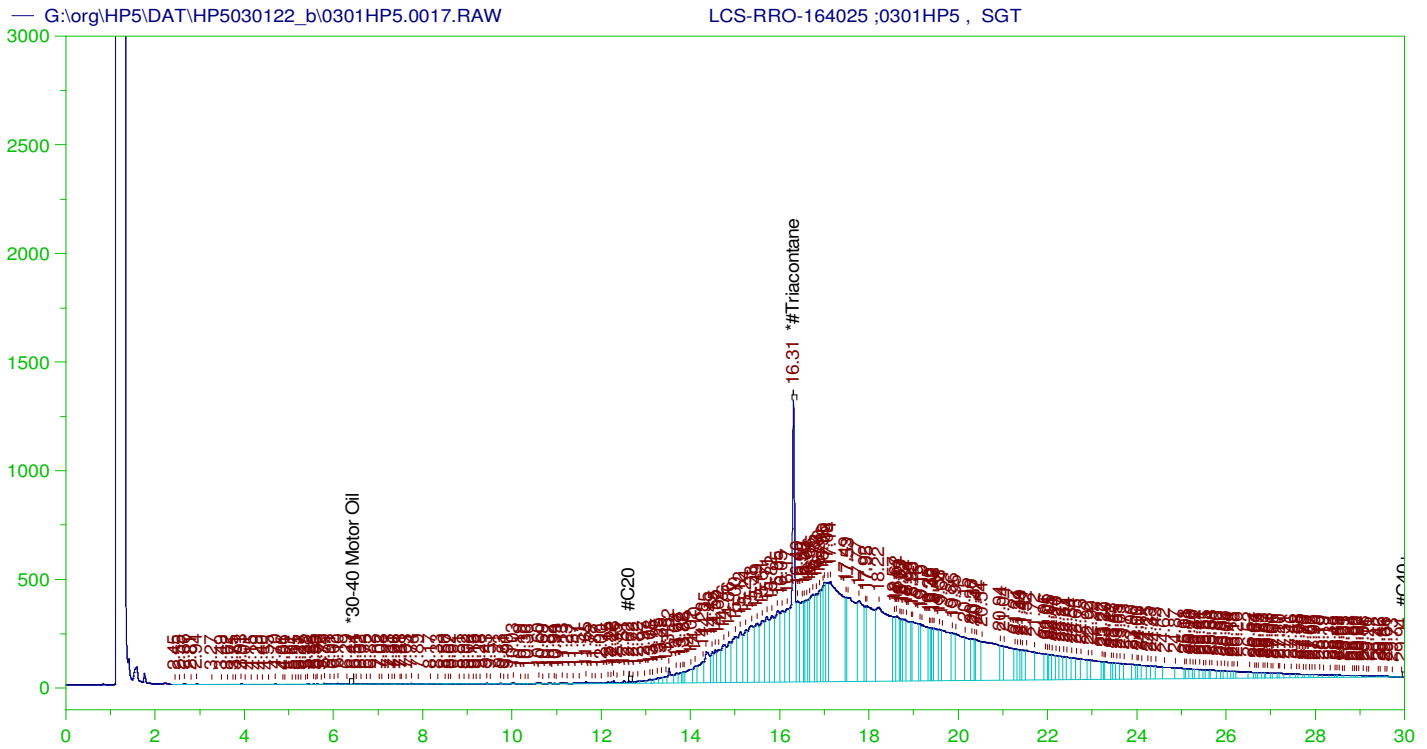
DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: DCM-Baseline Check-V16
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0016.RAW
 Date & Time Acquired: 3/1/2022 8:04:54 PM
 Method File: G:\Org\HP5\Methods\DR_8015-JA-LEXP.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JA.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.63 to 15.99

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|------|
| *o-Terphenyl | 29.608 | 200. | . | - |
| *1-Chlorooctadecane | 29.608 | 200. | . | - |

DRO Area:114637.2 DRO Amount: 3.508367
 TEH Area:590782.6 TEH Amount: 18.08037



RESIDUAL RANGE ORGANICS CHROMATOGRAM

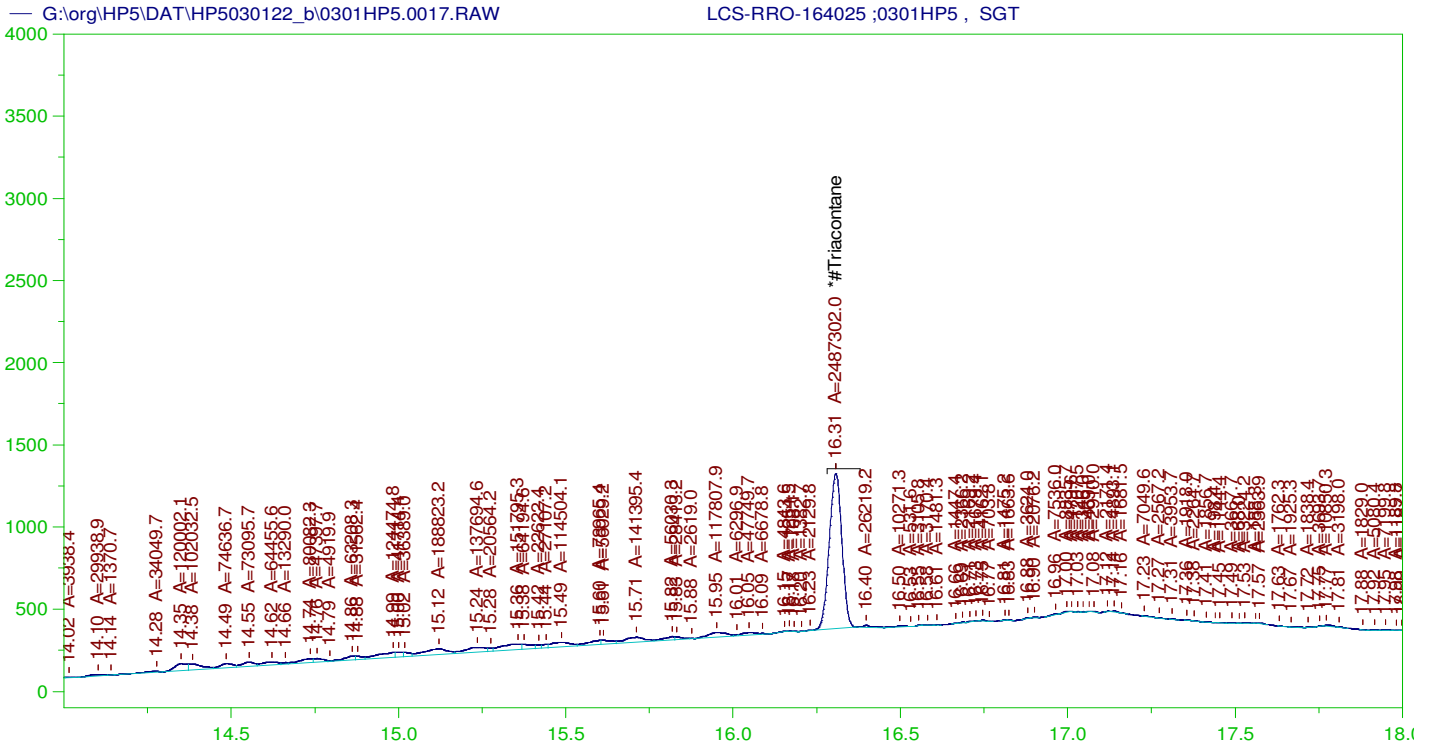
Sample Name: LCS-RRO-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0017.RAW
 Date & Time Acquired: 3/1/2022 8:47:46 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane | 16.307 | .5 | .193 | 38.57 |

~~RRO~~ TEH(Oil Range) Area:1.394701E+08 ~~RRO~~ TEH(Oil Range) AMOUNT: 5.278051

AMN 03/02/2022



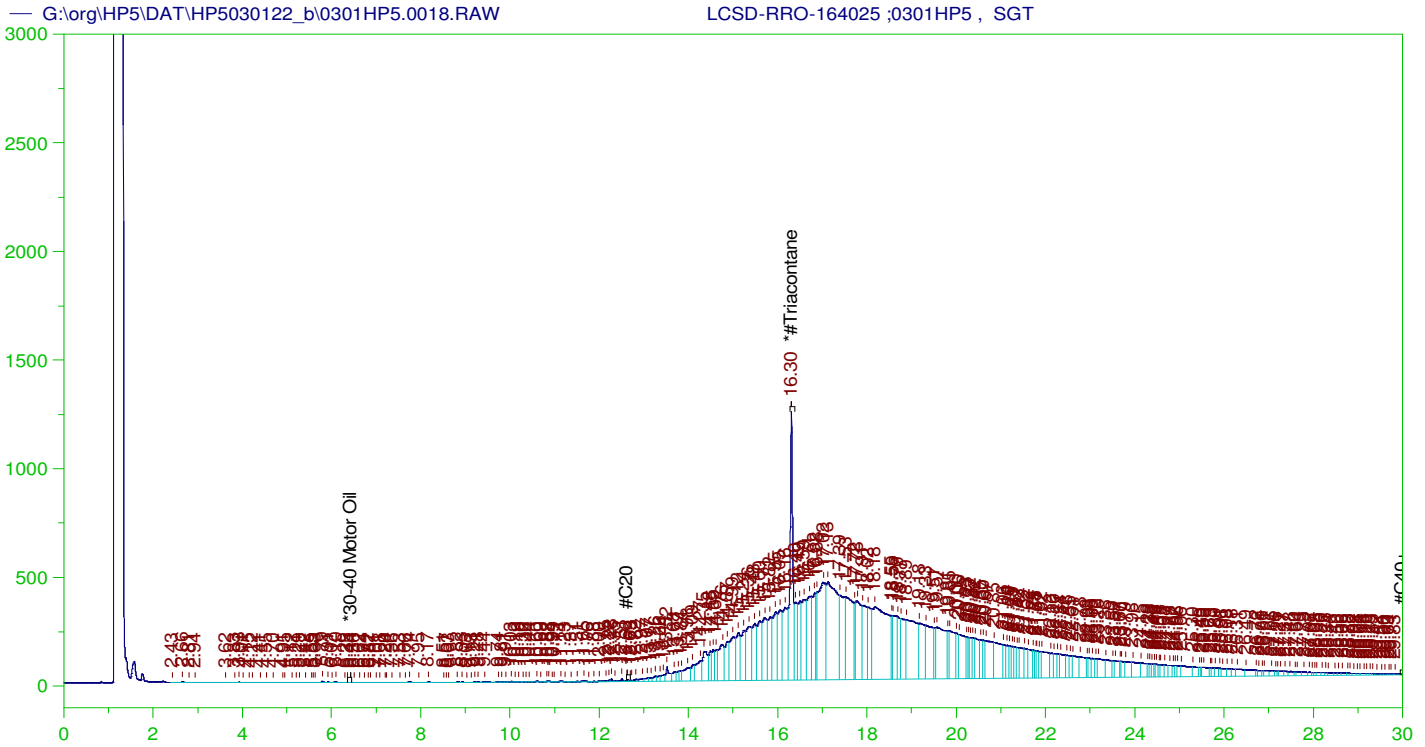
RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: LCS-RRO-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0017.RAW
 Date & Time Acquired: 3/1/2022 8:47:46 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|---------|
| *#Triacontane_____ | 16.307 | .5 | .084 | 16.79 - |

RRO Area:3002700 RRO AMOUNT: 0.1136329



RESIDUAL RANGE ORGANICS CHROMATOGRAM

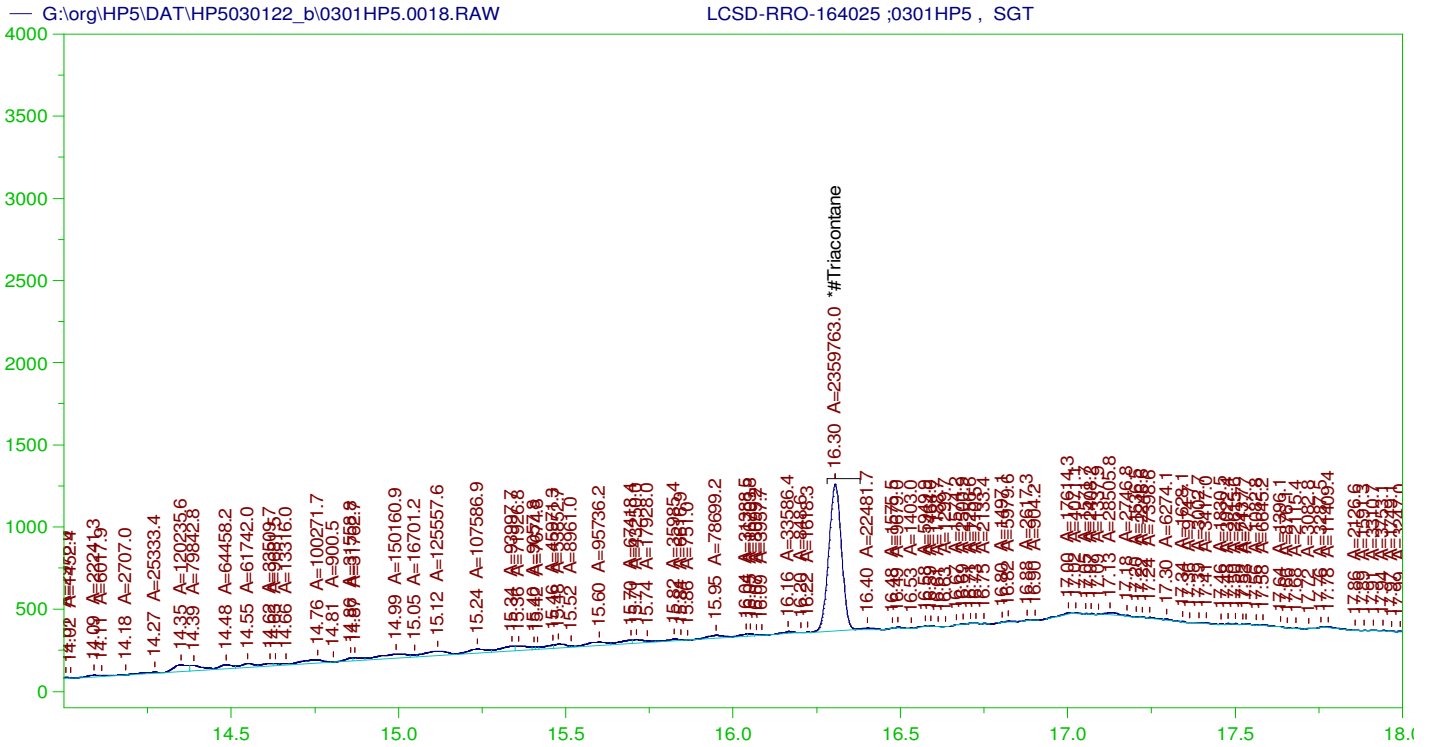
Sample Name: LCSD-RRO-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0018.RAW
 Date & Time Acquired: 3/1/2022 9:30:49 PM
 Method File: G:\Org\HP5\Methods\D3_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|---------|
| *#Triacontane_____ | 16.305 | .5 | .171 | 34.25 - |

RRO TEH(Oil Range) Area:1.377232E+08 RRO TEH(Oil Range) AMOUNT: 5.211939

AMN 03/02/2022



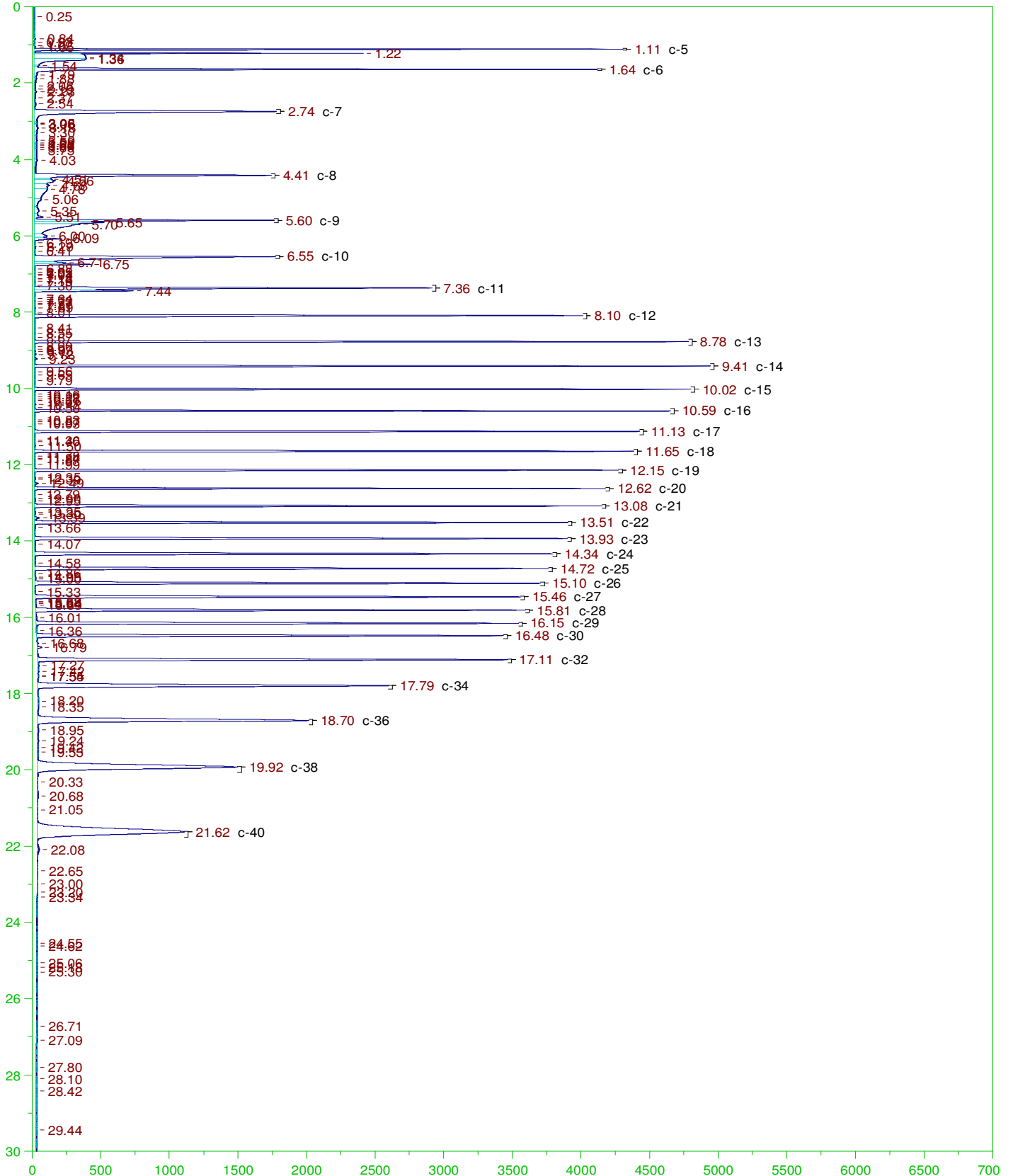
RESIDUAL RANGE ORGANICS CHROMATOGRAM

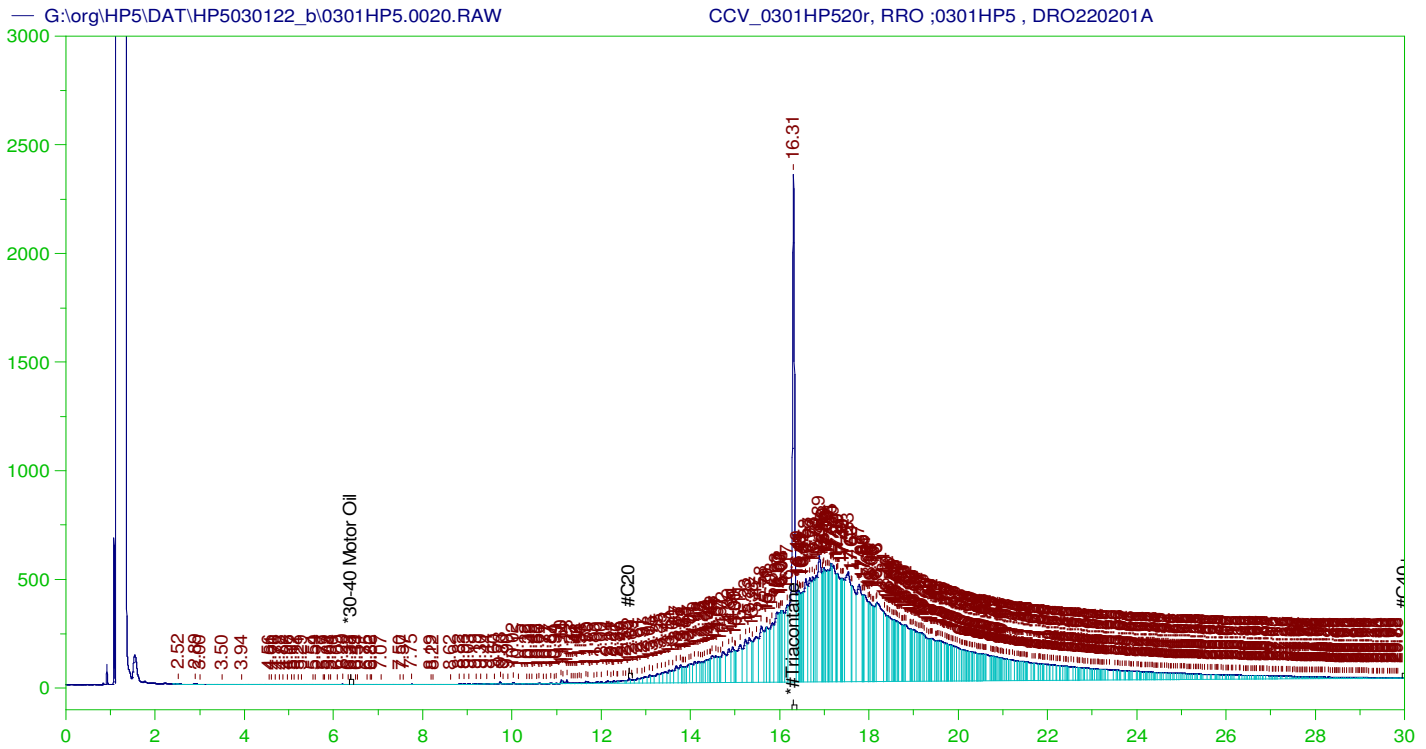
Sample Name: LCSD-RRO-164025 ;0301HP5 , SGT
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0018.RAW
 Date & Time Acquired: 3/1/2022 9:30:49 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1000 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|---------|
| *#Triacontane_____ | 16.305 | .5 | .08 | 15.92 - |

RRO Area:2524149 RRO AMOUNT: 9.552287E-02





RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0301HP520r, RRO ;0301HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0020.RAW
 Date & Time Acquired: 3/1/2022 10:56:59 PM
 Method File: G:\Org\HP5\Methods\DC_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for ~~Residual~~ TEH(Oil Range) Organics Calculations: 26424.55
 Rt range for ~~Residual~~ TEH(Oil Range) Organics: 12.6 to 30.05

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | |
|--------------------|--------|--------|----------|-------|---|
| *#Triacontane | 16.307 | 500. | 308.16 | 61.63 | - |

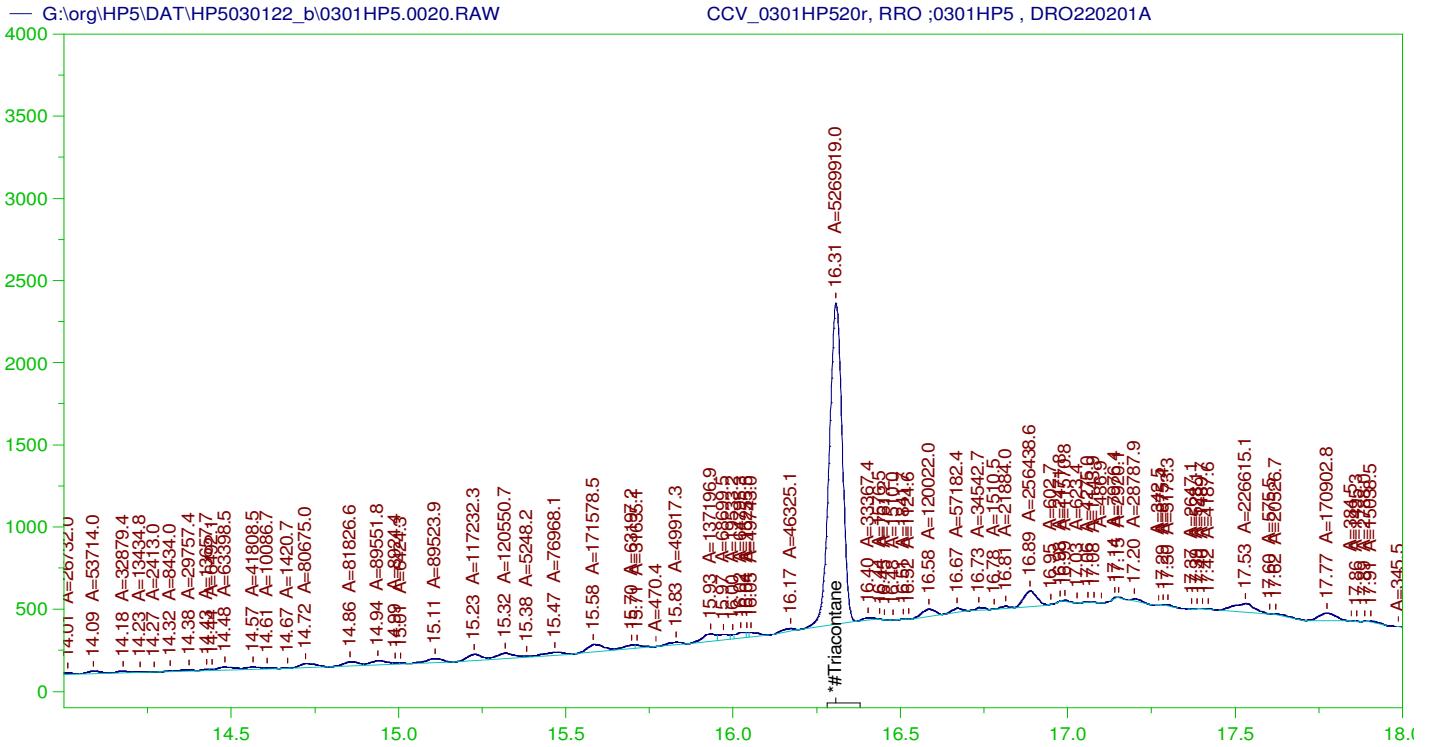
RRO TEH(Oil Range) Area:1.27249E+08 RRO TEH(Oil Range) AMOUNT: 4815.56

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0020.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .025 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|--------|--------|
| *#Triacontane | 16.307 | 200. | 308.16 | 154.08 | 75-125 |

AMN 03/02/2022



RESIDUAL RANGE ORGANICS CHROMATOGRAM

Sample Name: CCV_0301HP520r, RRO ;0301HP5 , DRO220201A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0020.RAW
 Date & Time Acquired: 3/1/2022 10:56:59 PM
 Method File: G:\Org\HP5\Methods\DS_ORO-BG-L%.MET
 Calibration File: G:\Org\HP5\Cals\SW8015C_ORO220111BG.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for for Residual Range Organics Calculations: 26424.55
 Rt range for Residual Range Organics: 12.6 to 30.05

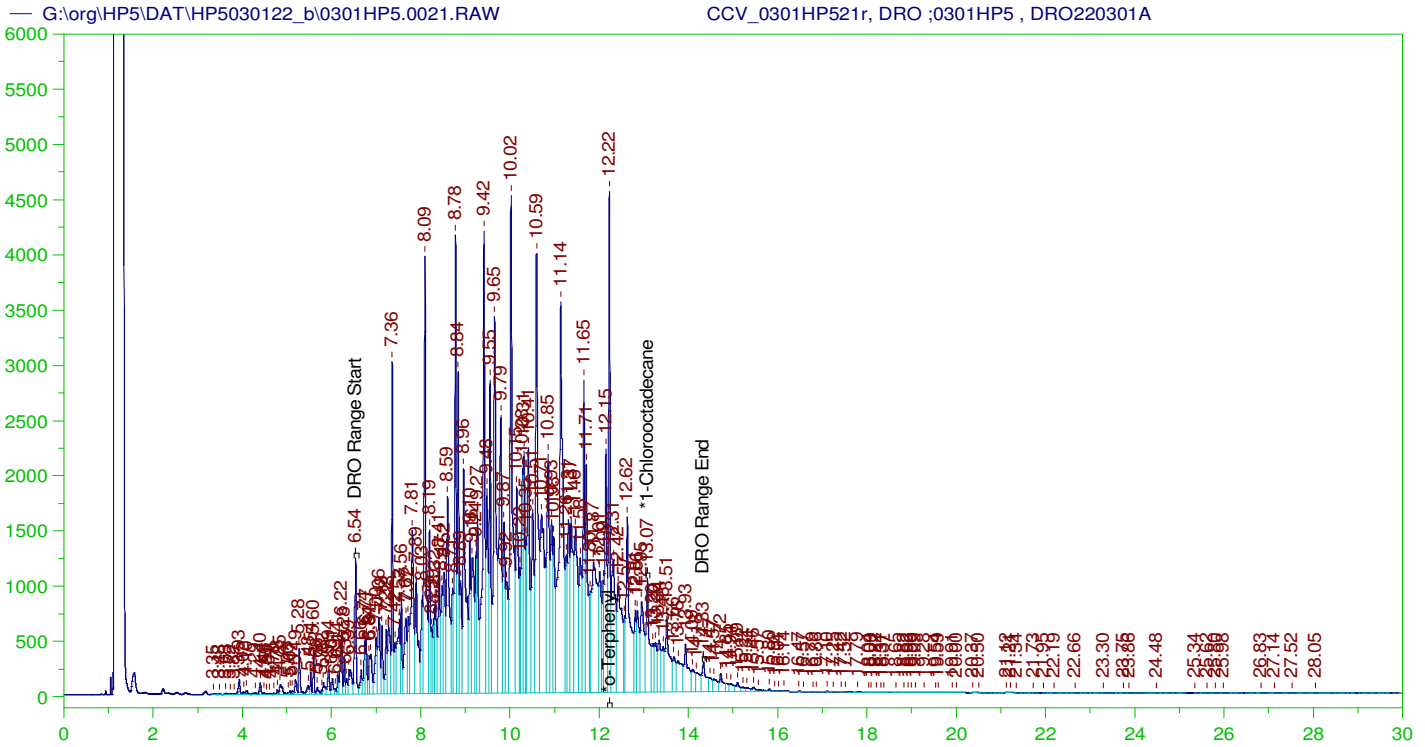
| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|--------------------|--------|--------|----------|-------|
| *#Triacontane | 16.307 | 500. | 177.821 | 35.56 |

RRO Area:3394872 RRO AMOUNT: 128.4742

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0020.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|------------------|-------------|---------------|-----------|--------|
| *30-40 Motor Oil | 5000. | .025 | . | 75-125 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|--------------------|--------|--------|----------|-------|--------|
| *#Triacontane | 16.307 | 200. | 177.821 | 88.91 | 75-125 |



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0301HP521r, DRO ;0301HP5 , DRO220301A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0021.RAW
 Date & Time Acquired: 3/1/2022 11:40:07 PM
 Method File: G:\Org\HP5\Methods\DC_8015-C24-JG-L%.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36
 Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|--------|
| *o-Terphenyl | 12.222 | 200. | 301.652 | 150.83 |
| *1-Chlorooctadecane | 13.075 | 200. | 142.284 | 71.14 |

DRO Area: 4.423719E+08 DRO Amount: 13538.39
 TEH Area: 4.57433E+08 TEH Amount: 13999.33

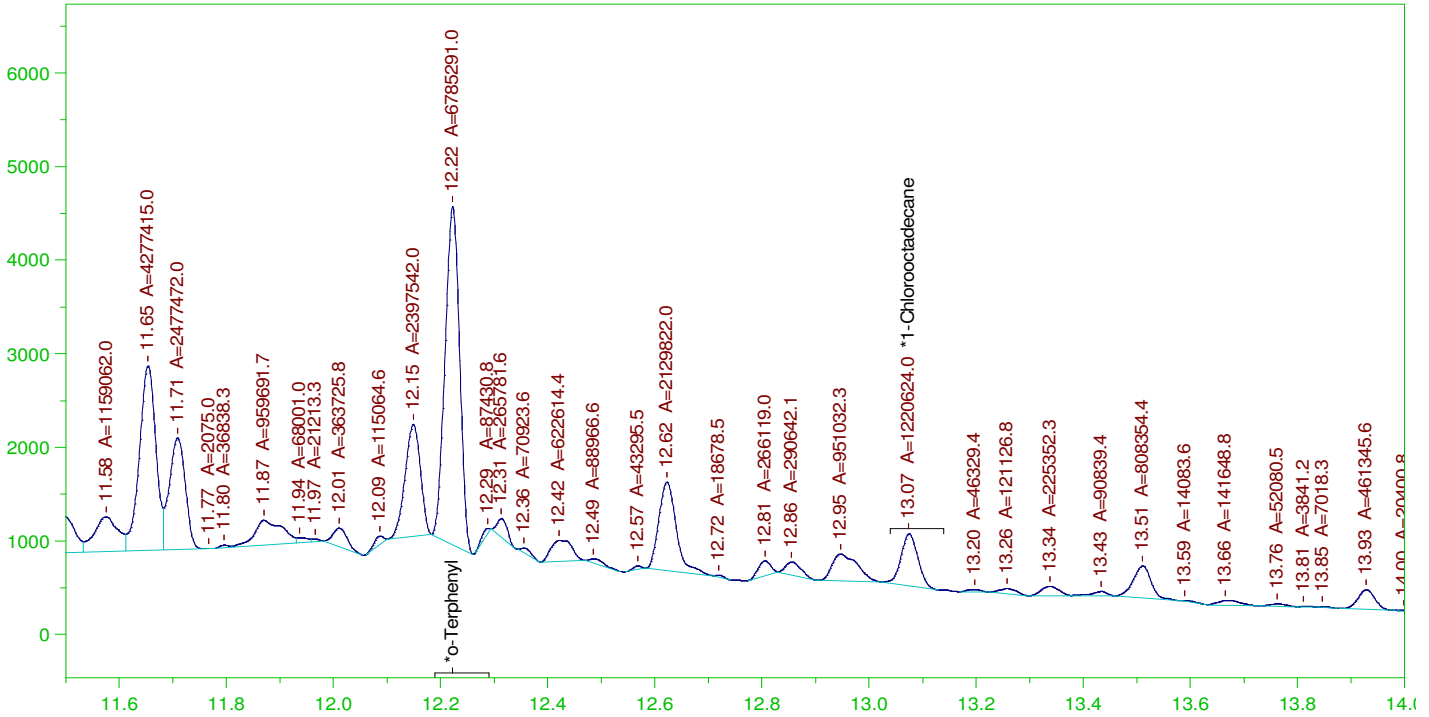
CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0021.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 13999.33 | 93.33 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|--------|--------|
| *o-Terphenyl | 12.222 | 200. | 301.652 | 150.83 | 85-115 |
| *1-Chlorooctadecane | 13.075 | 200. | 142.284 | 71.14 | 85-115 |

G:\org\HP5\DAT\HP5030122_b\0301HP5.0021.RAW

CCV_0301HP521r, DRO ;0301HP5 , DRO220301A



DIESEL RANGE ORGANICS CHROMATOGRAM REPORT

Sample Name: CCV_0301HP521r, DRO ;0301HP5 , DRO220301A
 Raw File: G:\org\HP5\DAT\HP5030122_b\0301HP5.0021.RAW
 Date & Time Acquired: 3/1/2022 11:40:07 PM
 Method File: G:\Org\HP5\Methods\DS_8015-C24-JG-L#.met
 Calibration File: G:\Org\HP5\Cals\SW8015C_DRO220111JG-C24.CAL
 Sample Weight: 1 Dilution: 1 S.A.: 1

Mean RF for TEH: 32675.36

Rt range for Diesel Range Organics: 6.51 to 14.41

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC |
|---------------------|--------|--------|----------|-------|
| *o-Terphenyl | 12.222 | 200. | 184.093 | 92.05 |
| *1-Chlorooctadecane | 13.075 | 200. | 33.117 | 16.56 |

DRO Area: 2.2735E+08 DRO Amount: 6957.842
 TEH Area: 2.374445E+08 TEH Amount: 7266.775

CONTINUING CALIBRATION REPORT: G:\org\HP5\DAT\HP5030122_b\0301HP5.0021.RAW

| COMPOUND | ACTUAL (NG) | MEASURED (NG) | %RECOVERY | LIMITS |
|-----------|-------------|---------------|-----------|--------|
| TOTAL DRO | 15000. | 7266.78 | 48.45 | 85-115 |

| SURROGATE COMPOUND | RT | ACTUAL | MEASURED | %REC | LIMITS |
|---------------------|--------|--------|----------|-------|--------|
| *o-Terphenyl | 12.222 | 200. | 184.093 | 92.05 | 85-115 |
| *1-Chlorooctadecane | 13.075 | 200. | 33.117 | 16.56 | 85-115 |

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amt Inj. | IS | Cal ID | Manual Integrations |
|---------------------------------------|--|--|--------|--------|------------|----------|----|--------|--|
| G:\org\HP5\DAT\HP5022822_b\0228HP5.01 | DCM-Baseline Check-V01 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.02 | DCM-Baseline Check-V02 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.03 | MARKER_0228HP503r_CSCAN_0228HP5_DRO220128B | G:\Org\HP5\Methods\CS220228.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.04 | CCV_0228HP504r_RRO_0228HP5_DRO220201A | G:\Org\HP5\Methods\DC_ORO-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1 | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.05 | CCV_0228HP505r_DRO_8015:0228HP5_DRO220211A | G:\Org\HP5\Methods\DC_8015-C24-JfB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JfB-Lf%.met | 1 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.06 | DCM-Baseline Check-V06 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.07 | DCM-Baseline Check-V07 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.08 | LCS-164025_0228HP5 | G:\Org\HP5\Methods\D3_8015-C24-JfB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JfB-Lf%.met | 1000 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.09 | LCS-D-164025_0228HP5 | G:\Org\HP5\Methods\D3_8015-022809-JfB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JfB-Lf%.met | 1000 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline with peak width adjusted and an Set Baseline All Valleys on placed at 28.71 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.10 | MB-164025_0228HP5 | G:\Org\HP5\Methods\DR_8015-C24T-JfB-L%.met G:\Org\HP5\Methods\DR_OROS-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JfB-Lf%.met | 1000 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.6 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.11 | B22021627-011D_0228HP5_SHC-8015-DRO-W, | G:\Org\HP5\Methods\DR_8015-C24T-JfB-L%.met G:\Org\HP5\Methods\DR_OROS-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JfB-Lf%.met | 1060 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.6 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.12 | B22021627-001D_0228HP5_SHC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-C24T-JfB-L%.met G:\Org\HP5\Methods\DR_OROS-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JfB-Lf%.met | 1050 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.13 | B22021627-001DMS_0228HP5 | G:\Org\HP5\Methods\D3_8015-C24-JfB-L%.met G:\Org\HP5\Methods\DS_8015-C24-JfB-Lf%.met | 1050 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.14 | DCM-Baseline Check-V14 | G:\Org\HP5\Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.15 | B22021627-006D_0228HP5_SHC-8015-DRO-W, | G:\Org\HP5\Methods\D3_8015-022815-JfB-L%.met G:\Org\HP5\Methods\DR_OROS-022815-BF-L%.MET G:\Org\HP5\Methods\DS_8015-C24T-JfB-Lf%.met | 1060 | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline with a Set Baseline All Valleys on at 26.23 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.16 | B22021627-006DMS-RRO_0228HP5 | G:\Org\HP5\Methods\D3_ORO-022816-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1060 | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.17 | LCS-RRO-164025_0228HP5 | G:\Org\HP5\Methods\D3_ORO-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1000 | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.18 | LCS-D-RRO-164025_0228HP5 | G:\Org\HP5\Methods\D3_ORO-BF-L%.MET G:\Org\HP5\Methods\DS_ORO-BF-L%.MET | 1000 | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| G:\org\HP5\DAT\HP5022822_b\0228HP5.19 | MARKER_0228HP519r_CSCAN_0228HP5_DRO220128B | G:\Org\HP5\Methods\CS220228.met | 1 | 1 | 1 | 1 | 1 | 0 | No integrations |

| | | | | | | | | |
|---------------------------------------|---|--|---|---|---|---|---|--|
| G:\org\HPS\DAT\HP5022822_b\0228HP5.20 | CCV_0228HP520r, RRO_0228HP5 , DRO220201A | G:\Org\HPS\Methods\DC_ORO-BF-L%.MET G:\Org\HPS\Methods\DS_ORO-BF-L%.MET | 1 | 1 | 1 | 1 | 0 | The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| G:\org\HPS\DAT\HP5022822_b\0228HP5.21 | CCV_0228HP521r, DRO_8015;0228HP5 , DRO220211A | G:\Org\HPS\Methods\DC_8015-C24-JFb-L%.met G:\Org\HPS\Methods\DS_8015-C24-JFb-L%.met | 1 | 1 | 1 | 1 | 0 | The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |

Ann Nebel

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Ann Nebel
Date: 2022.03.02 13:02:09 -07:00

| Write Sequence | Data File | Sample Name | Method | Weight | Dil Factor | Amnt Inj. | IS | Cal D | Manual Integrations |
|----------------|-----------|--|--|--------|------------|-----------|----|-------|---|
| | | DCM-Baseline Check-V01 | G:\Org\HP5-Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | DCM-Baseline Check-V02 | G:\Org\HP5-Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | MARKER_0301HP503r, CSCAN_0301HP5, DRO220128B | G:\Org\HP5-Methods\CSC220301.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | CCV_0301HP504r, RRO_0301HP5, DRO220201A | G:\Org\HP5-Methods\DC_ORO-BG-L%.MET G:\Org\HP5-Methods\DS_ORO-BG-L%.MET | 1 | 1 | 1 | 1 | 1 | 0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| | | CCV_0301HP505r, DRO_8015:0301HP5, DRO220211A | G:\Org\HP5-Methods\DC_8015-C24-JG-L%.met G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| | | DCM-Baseline Check-V06 | G:\Org\HP5-Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | DCM-Baseline Check-V07 | G:\Org\HP5-Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | LCS-164025_0301HP5, SGT | G:\Org\HP5-Methods\D3_8015-C24-JG-L%.met G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1000 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| | | LCS-D-164025_0301HP5, SGT | G:\Org\HP5-Methods\D3_8015-030109-JG-L%.met G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1000 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline with peak width adjusted. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| | | MB-164025_0301HP5, SGT | G:\Org\HP5-Methods\DR_8015-C24-JG-L%.met G:\Org\HP5-Methods\DR_OROS-BG-L%.MET G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1000 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.6 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| | | B22021627-001D_0301HP5, SHC-8015-DRO-W, SGT | G:\Org\HP5-Methods\DR_8015-030111-JG-L%.met G:\Org\HP5-Methods\D3_OROS-030111-BG-L%.MET G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1050 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline with Set Baseline Now at 23.92 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| | | B22021627-001DMS_0301HP5, SGT | G:\Org\HP5-Methods\D3_8015-C24-JG-L%.met G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1050 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |
| | | DCM-Baseline Check-V13 | G:\Org\HP5-Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | B22021627-006D_0301HP5, SHC-8015-DRO-W, SGT | G:\Org\HP5-Methods\DR_8015-030114-JG-L%.met G:\Org\HP5-Methods\D3_OROS-030114-BG-L%.MET G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1060 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24), C24-C40, and Total Extractable Hydrocarbons (TEH) is the hydrocarbon response with reference to the baseline with Set Baseline Now at 27.91 minutes and peak width adjusted. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on at 10.78 minutes and X-axis scaling showing surrogate peak from 11-18 minutes. |
| | | B22021627-006DMS-RRO_0301HP5, SGT | G:\Org\HP5-Methods\D3_ORO-BG-L%.MET G:\Org\HP5-Methods\DS_ORO-BG-L%.MET | 1060 | 1 | 1 | 1 | 1 | 0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| | | DCM-Baseline Check-V16 | G:\Org\HP5-Methods\DR_8015-JA-LEXP.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | LCS-RRO-164025_0301HP5, SGT | G:\Org\HP5-Methods\D3_ORO-BG-L%.MET G:\Org\HP5-Methods\DS_ORO-BG-L%.MET | 1000 | 1 | 1 | 1 | 1 | 0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| | | LCS-D-RRO-164025_0301HP5, SGT | G:\Org\HP5-Methods\D3_ORO-BG-L%.MET G:\Org\HP5-Methods\DS_ORO-BG-L%.MET | 1000 | 1 | 1 | 1 | 1 | 0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| | | MARKER_0301HP519r, CSCAN_0301HP5, DRO220128B | G:\Org\HP5-Methods\CSC220301.met | 1 | 1 | 1 | 1 | 1 | 0 No integrations |
| | | CCV_0301HP520r, RRO_0301HP5, DRO220201A | G:\Org\HP5-Methods\DC_ORO-BG-L%.MET G:\Org\HP5-Methods\DS_ORO-BG-L%.MET | 1 | 1 | 1 | 1 | 1 | 0 The integration of Oil Range hydrocarbon is the hydrocarbon response with reference to the baseline. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 16.14 minutes and X-axis scaling showing surrogate peak from 14-18 minutes. |
| | | CCV_0301HP521r, DRO_0301HP5, DRO220301A | G:\Org\HP5-Methods\DC_8015-C24-JG-L%.met G:\Org\HP5-Methods\DS_8015-C24-JG-L%.met | 1 | 1 | 1 | 1 | 1 | 0 The integration of Diesel Range Organics (C10-C24) and Total Extractable Hydrocarbons is the hydrocarbon response with reference to the baseline. Assigned Set Baseline All Valley on at 16.35 minutes. Surrogates are integrated using a valley to valley integration using Set baseline All Valleys on placed at 12.01 minutes and X-axis scaling showing surrogate peak from 11.5-14 minutes. |

Ann Nebel

Digitally signed by
Ann Nebel
Date: 2022.03.02 13:02:30 -07:00



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO180126C

Standard Name: 2-Fluorobiphenyl

Prep Date: 1/26/2018

Exp Date: 10/31/2024

Department: dropr

Vendor: Chemservice

Lot Number: 5599700

Balance ID:

Comments:

Type: Neat

Prep By: Todd C Cooper

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|------------|
| 2-Fluorobiphenyl | 10069 | | mL | 10/31/2024 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO180823A

Standard Name: 2-Bromonaphthalene

Prep Date: 8/22/2016

Exp Date: 5/31/2022

Department: dropr

Vendor: Chemservice

Lot Number: 3150700

Balance ID:

Comments:

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| 2-Bromonaphthalene | 10701 | | mL | 5/31/2022 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO181105A

Standard Name: #2 Diesel (NEAT)

Prep Date: 11/5/2018

Exp Date: 11/5/2023

Department: dropr

Vendor: conoco

Lot Number:

Balance ID:

Comments: -18 Cloud peak. (Conoco Gas Sation 1240 S. 27th Billings, MT) 2nd Source

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: 250 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|------------|--------------|-------|-----------|
| | | | | 11/5/2023 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO200430B
Standard Name: O-Terphenyl
Prep Date: 4/30/2020
Exp Date: 9/30/2024
Department: dropr
Vendor: Chemservice
Lot Number: 9972100
Balance ID:
Comments: ID#: 6271

Type: Neat
Prep By: Ann Nebel
Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| o-Terphenyl | 12650 | 500 | mg | 9/30/2024 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO201014C

Standard Name: 1-Chlorooctadecane

Prep Date: 10/14/2019

Exp Date: 12/31/2024

Department: dropr

Vendor: CSI1

Lot Number: 10809500

Balance ID:

Comments: Date Certified: 12/9/16 ; N-10042-1G; 99.5% purity

Type: Neat

Prep By: Ann Nebel

Status: Open

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|------------|
| 1-Chlorooctadecane | 13192 | 1 | g | 12/31/2024 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
|--------------|------------|--------------|



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO201014D

Standard Name: n-Pentacosane

Prep Date: 10/14/2020

Exp Date: 2/28/2025

Department: dropr

Vendor: Chem Service

Lot Number: 9642200

Balance ID:

Comments: C-25; Used in AKDRO Marker

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| n-Pentacosane | 13193 | 100 | mg | 2/28/2025 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO211012B

Standard Name: #2 Diesel in Acetone 150,000 ug/mL

Prep Date: 10/12/2021

Exp Date: 11/5/2023

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: #2 Diesel in Acetone 150,000 ug/mL.

Type: Secondary

Prep By: Ann Nebel

Status: New

Final Volume: 25 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Acetone EA662 | 14050 | 25 | mL | 11/5/2023 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO181105A | ug/mL | 3.7507 g |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO211025B

Standard Name: Ali Hydro Std 1000ug/mL

Prep Date: 10/25/2021

Exp Date: 11/30/2024

Department: dropr

Vendor: Agilent

Lot Number: 0006643302

Balance ID:

Comments: Ali Hydro Std 1000ug/mL For CCVs.

Type: Primary

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|--------------------------------|-----------------------|--------------|-------|------------|
| Aliphatic Hydrocarbon Standard | 14434 | 1 | mL | 11/30/2024 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Spike ID: DRO211101A

Spike Name: OTP-4000 ug/mL DCM

Prep Date: 11/1/2021

Exp Date: 9/30/2024

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary

Prep By: Ann Nebel

Status: Open

Final Volume: 25 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Dichloromethane EC328 | 14408 | 25 | mL | 9/30/2024 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO200430B | ug/mL | 0.1012 g |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO211214C

Standard Name: Diesel Fuel #2 50,000 ug/mL in DCM

Prep Date: 12/14/2021

Exp Date: 4/30/2023

Department: dropr

Vendor: Sigma-Aldrich

Lot Number: LRAC6316

Balance ID:

Comments: Diesel Fuel #2 For CCVs.

Type: Primary

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Diesel Fuel No. 2 | 14623 | 1 | mL | 4/30/2023 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211214C | ug/mL | |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO211222B

Standard Name: EPH (4) SURR-1000 ug/mL ea. in Hexane

Prep Date: 12/22/2021

Exp Date: 5/31/2022

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: EPH (4) SURR-1000 ug/mL ea. in Hexane

Type: Secondary

Prep By: Jillian L Bostwick

Status: Open

Final Volume: 50 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Hexane EB754 | 14543 | 50 | mL | 5/31/2022 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO180823A | ug/mL | 0.0507 g |
| DRO200430B | ug/mL | 0.0504 g |
| DRO180126C | ug/mL | 0.0496 g |
| DRO201014C | ug/mL | 0.0504 g |



Analytical RunID GCFID-HP5-B_220111A Standards Traceability Report

Standard ID: DRO220102D

Standard Name: ALASKA MARKER-200ug/mL

Prep Date: 1/2/2022

Exp Date: 5/31/2022

Department: dropr

Vendor:

Lot Number:

Balance ID:

Comments: ALASKA MARKER w/ C-10, C-25, and OTP/COD. Optimal C-25 is 0.0012g.

Type: Secondary

Prep By: Ann Nebel

Status: New

Final Volume: 5.5 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Hexane EB754 | 14543 | 3.3 | mL | 5/31/2022 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO201014D | ug/mL | 0.0016 g |
| DRO211222B | ug/mL | 1.1 mL |
| DRO211025B | ug/mL | 1.1 mL |

Certificate of Analysis

Diesel Fuel No. 2

*Certified
Reference
Material*

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14623

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

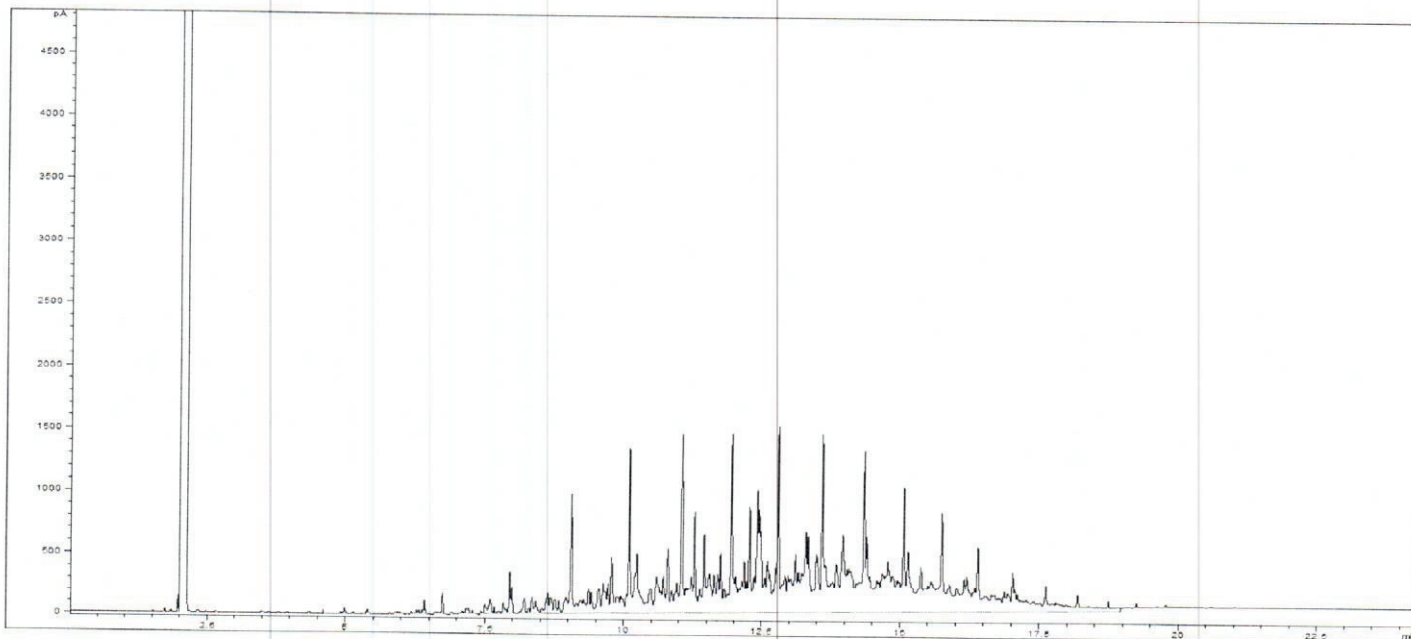
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

| Analyte | Certified Value ^{1,4} | Units | Raw Material Purity, % | Raw Material Lot | CAS |
|---------------|--------------------------------|-------|------------------------|------------------|------------|
| NO.2 FUEL OIL | 50001 ± 2770 | µg/mL | 100.0 | LA80505 | 68476-34-6 |

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$U_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

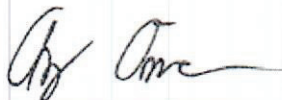
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

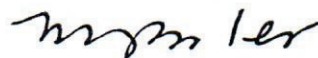
MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager

Certification Date April 30, 2020
Version 0-4302020



Mark Pooler - QA Supervisor



660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C18H14
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

| Analytical Test | Value |
|--------------------|-----------------------|
| FT-IR SPECTROSCOPY | CONFORMS TO STRUCTURE |
| GC/MS SPECTRA ID | MATCHES NIST DATABASE |
| MELTING POINT (°C) | 57.1 |
| % PURITY (GC/FID) | 99.5 |

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street

Billings MT 59107

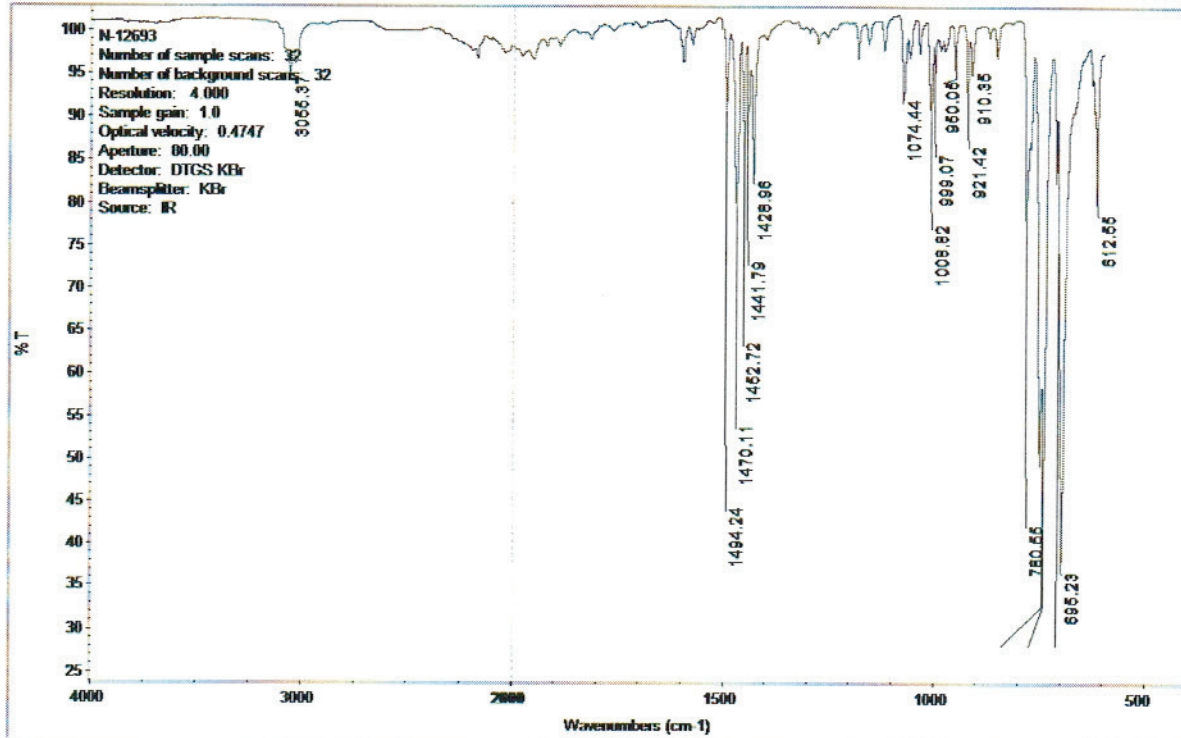
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 11.844 | 1597 | 1606 | 1613 | BB | 32038221 | 432253484 | 100.00% | 100.000% |

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

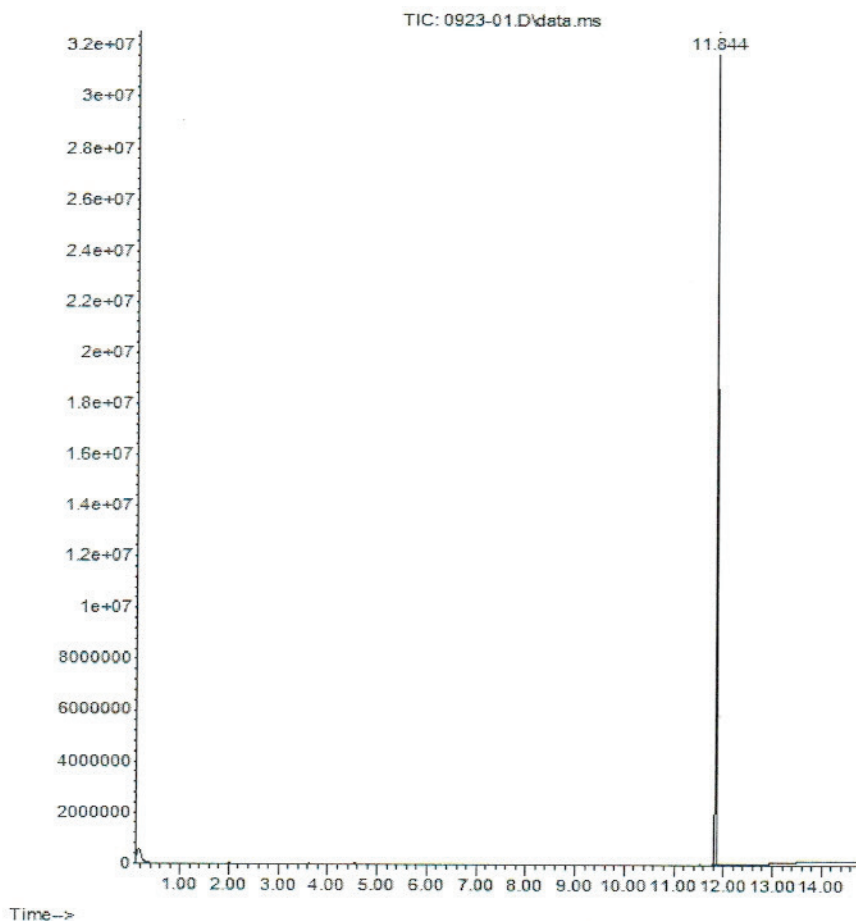


CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



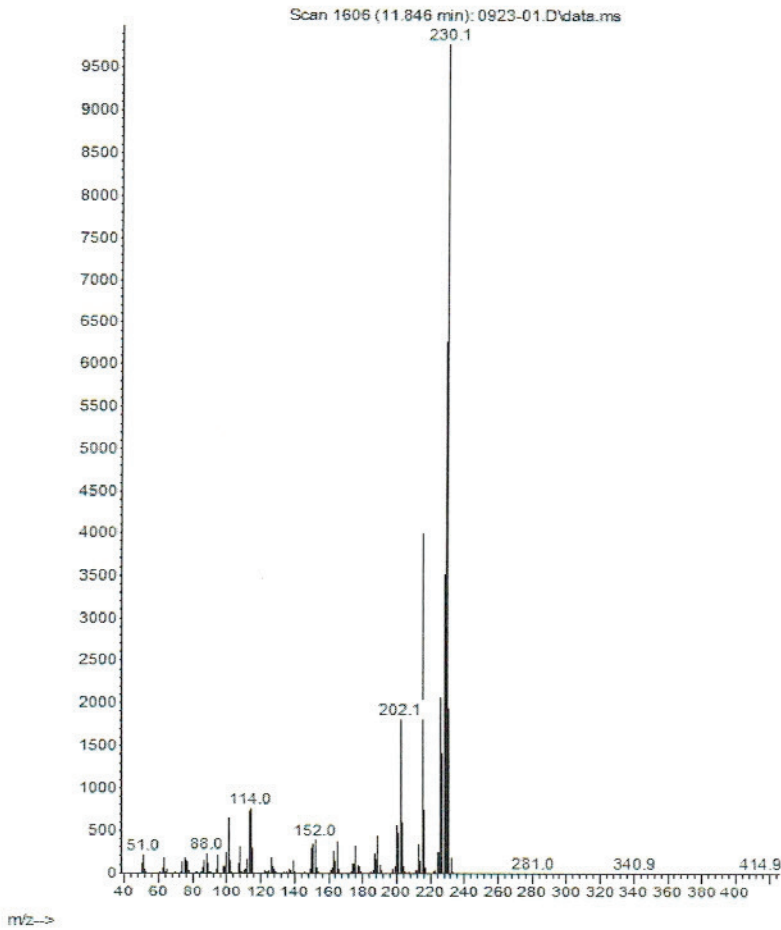
660 Tower Lane • P. O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

| | |
|------------------|---------------|
| Catalog Number: | N-12693-500MG |
| Description: | o-Terphenyl |
| Lot Number: | 9972100 |
| Expiration Date: | 09/30/24 |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



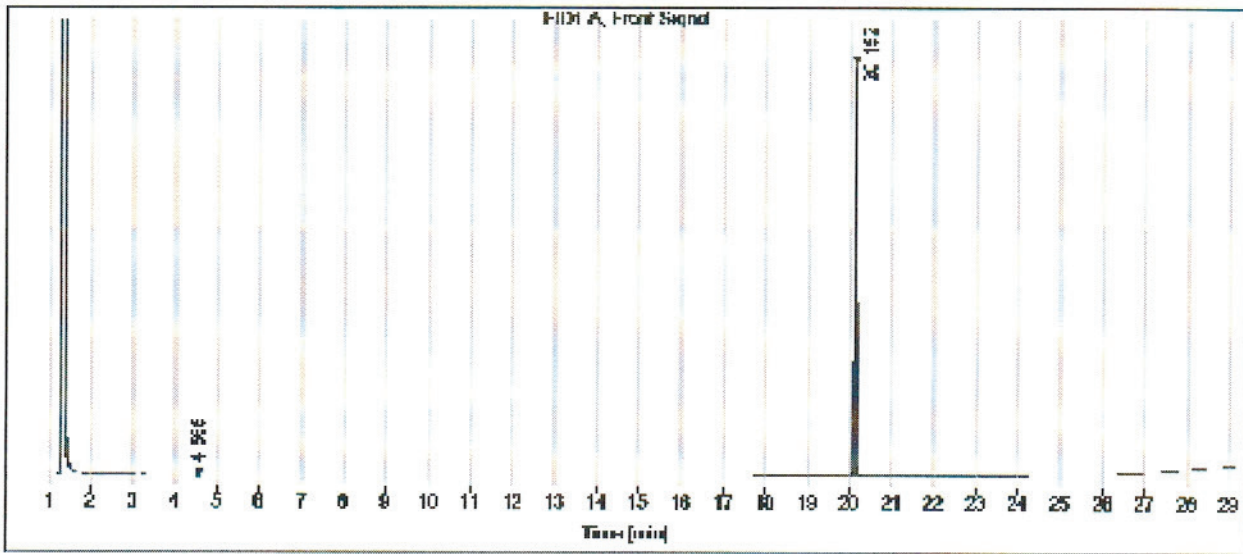
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
Sample name: N-12893
Instrument: GC 2
Injection date: 8/23/2019 9:58:34 AM
Acq. method: SCREEN.M
Column name: HP-5

CERTIFICATE OF ANALYSIS

Location: Vial 141
Injection volume: 1.0uL



Signal: FID1 A, Front Signal

| RT [min] | Type | Width [min] | Area | Height | Area% |
|----------|------|-------------|-----------|----------|-------|
| 4.565 | BB | 0.0305 | 1.2408 | 0.5122 | 0.11 |
| 20.152 | BB | 0.0391 | 1171.9556 | 439.4599 | 99.89 |
| | | Sum | 1173.1963 | | |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015





Analytical RunID GCFID-HP5-B_220111c Standards Traceability Report

Standard ID: DRO210406A

Standard Name: Triacontane-d62 Surr For AK103 RRO

Prep Date: 4/6/2021

Exp Date: 4/6/2026

Department: dropr

Vendor: Sigma-Aldrich

Lot Number: MBBC4347

Balance ID:

Comments: Alaska surr [for AK103 RRO]

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------------|-----------------------|--------------|-------|----------|
| Triacontane-d62-98 atom % D | 13736 | | mL | 4/6/2026 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111c Standards Traceability Report

Standard ID: DRO210901A

Standard Name: 30W Motor Oil-Valvoline

Prep Date: 9/1/2021

Exp Date: 9/1/2026

Department: dropr

Vendor:

Lot Number: F1620C1

Balance ID:

Comments: Used to make 2nd Source Standard for AK103 method.

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|----------------------------|-----------------------|--------------|-------|----------|
| Valvoline SAE 30 Motor Oil | 14232 | | mL | 9/1/2026 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111c Standards Traceability Report

Standard ID: DRO210901B

Standard Name: 40W Motor Oil-Valvoline

Prep Date: 9/1/2021

Exp Date: 9/1/2026

Department: dropr

Vendor:

Lot Number: L0717H2

Balance ID:

Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|----------------------------|-----------------------|--------------|-------|----------|
| Valvoline SAE 40 Motor Oil | 14231 | | mL | 9/1/2026 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220111c Standards Traceability Report

Standard ID: DRO210902A

Standard Name: 50,000 ug/mL Oil Std for RRO-In DCM

Prep Date: 9/2/2021

Exp Date: 9/1/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: .625 g of 30W and 40 W each LCS for Oil range

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 25 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|----------|
| Dichloromethane EB867 | 14196 | 25 | mL | 9/1/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO210901A | ug/mL | 0.6254 g |
| DRO210901B | ug/mL | 0.6261 g |



Analytical RunID GCFID-HP5-B_220111c Standards Traceability Report

Standard ID: DRO211006A

Standard Name: Triacontane SURR 2000 ug/mL

Prep Date: 10/6/2021

Exp Date: 4/6/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: Triacontane SURR 2000 ug/mL

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 50 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|----------|
| Acetone DZ509 | 13553 | 50 | mL | 4/6/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO210406A | ug/mL | 0.1001 g |



Analytical RunID GCFID-HP5-B_220111c Standards Traceability Report

Standard ID: DRO211118A

Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DCM

Prep Date: 11/18/2021

Exp Date: 10/31/2028

Department: dropr

Vendor: Restek

Lot Number: A0176667

Balance ID: Sartorius 4 place balance

Comments:

Type: Primary

Prep By: Ann Nebel

Status: Open

Final Volume: 1 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-------------------------------------|-----------------------|-----|-------|------------|
| Residual Range Calibration Standard | 14531 | 1 | mL | 10/31/2028 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211118A | ug/mL | |



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817 **Lot No.:** A0176667

Description : Residual Range Calibration Standard (RCS)

Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2028 **Storage:** 25°C nominal

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---------------|--|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----% | 50,102.0 µg/mL | +/- 293.3582 | µg/mL | Gravimetric |
| | (Lot A0126386) | | +/- 1,492.1008 | µg/mL | Unstressed |
| | | | +/- 1,591.3244 | µg/mL | Stressed |

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 14531
Opened: _____
Residual Range Calibration Standard
Expires: 10/31/2028
Rec'd: 11/18/2021
Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

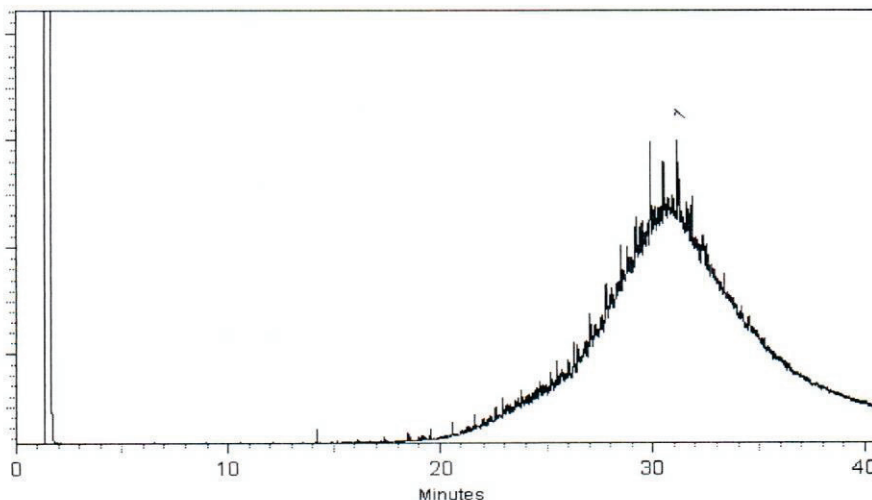
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

Alexis Shelow

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer) -20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

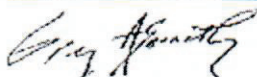
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| Test | Specification | Result |
|-----------------------|-----------------------|----------|
| Purity (HPLC) | ≥ 99.0 % | 99.0 % |
| Proton NMR Spectrum | Conforms to Structure | Conforms |
| D Enrichment | ≥ 98.0 % | 99.0 % |
| Initial Melting Point | | 60.0 °C |
| Final Melting Point | | 62.0 °C |



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO181105A

Spike Name: #2 Diesel (NEAT)

Prep Date: 11/5/2018

Exp Date: 11/5/2023

Department: dropr

Vendor: conoco

Lot Number:

Balance ID:

Comments: -18 Cloud peak. (Conoco Gas Sation 1240 S. 27th Billings, MT) 2nd Source

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: 250 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|------------|--------------|-------|-----------|
| | | | | 11/5/2023 |
| Stock Source | Base Units | Amount Added | | |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO200430B

Spike Name: O-Terphenyl

Prep Date: 4/30/2020

Exp Date: 9/30/2024

Department: dropr

Vendor: Chemservice

Lot Number: 9972100

Balance ID:

Comments: ID#: 6271

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| o-Terphenyl | 12650 | 500 | mg | 9/30/2024 |
| Stock Source | Base Units | Amount Added | | |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO210901A

Spike Name: 30W Motor Oil-Valvoline

Prep Date: 9/1/2021

Exp Date: 9/1/2026

Department: dropr

Vendor:

Lot Number: F1620C1

Balance ID:

Comments: Used to make 2nd Source Standard for AK103 method.

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|----------------------------|-----------------------|--------------|-------|----------|
| Valvoline SAE 30 Motor Oil | 14232 | | mL | 9/1/2026 |
| Stock Source | Base Units | Amount Added | | |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO210901B

Spike Name: 40W Motor Oil-Valvoline

Prep Date: 9/1/2021

Exp Date: 9/1/2026

Department: dropr

Vendor:

Lot Number: L0717H2

Balance ID:

Comments: Used to Make 2nd Source Standards For Alaska AK103 RRO Method and Oil

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|----------------------------|-----------------------|--------------|-------|----------|
| Valvoline SAE 40 Motor Oil | 14231 | | mL | 9/1/2026 |
| Stock Source | Base Units | Amount Added | | |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO211123B

Spike Name: Triacontane-d62 Surr For AK103 RRO

Type: Neat

Prep Date: 11/23/2021

Prep By: Ann Nebel

Exp Date: 11/23/2026

Status: New

Department: dropr

Vendor: Sigma-Aldrich

Final Volume: mL

Lot Number: MBBD2031

Balance ID:

Comments: Alaska surr [for AK103 RRO]

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------------|-----------------------|--------------|-------|------------|
| Triacontane-d62-98 atom % D | 14545 | | mL | 11/23/2026 |
| Stock Source | Base Units | Amount Added | | |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO211213A

Spike Name: OTP only SURR 2000 ug/mL

Prep Date: 12/13/2021

Exp Date: 9/30/2024

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: OTP SURR 2000 ug/mL

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 100 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Acetone DZ509 | 13553 | 100 | mL | 9/30/2024 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO200430B | ug/mL | 0.2015 g |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO220106C

Spike Name: #2 Diesel in Acetone 150,000 ug/mL

Type: Secondary

Prep Date: 1/6/2022

Prep By: Ann Nebel

Exp Date: 11/5/2023

Status: New

Department: dropr

Vendor:

Final Volume: 25 mL

Lot Number:

Balance ID: BAL-DRO

Comments:

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| Acetone DZ509 | 13553 | 25 | mL | 11/5/2023 |
| Stock Source | Base Units | Amount Added | | |
| DRO181105A | ug/mL | 3.7506 g | | |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO220112A

Spike Name: 50,000 ug/mL Oil Std for RRO-In DCM

Prep Date: 1/12/2022

Exp Date: 9/1/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: .625 g of 30W and 40 W each LCS for Oil range

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 25 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|----------|
| Dichloromethane EC832 | 14647 | 25 | mL | 9/1/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO210901A | ug/mL | 0.6225 g |
| DRO210901B | ug/mL | 0.6273 g |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO220222A

Spike Name: Triacontane SURR 2000 ug/mL

Prep Date: 2/22/2022

Exp Date: 11/23/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: Triacontane SURR 2000 ug/mL

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 50 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|------------|
| Dichloromethane ED092 | 14828 | 50 | mL | 11/23/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211123B | ug/mL | 0.1003 g |



Prep Batch 164025 Standards Traceability Report

Spike ID: DRO220222B

Spike Name: Triacontane SURR 1000 ug/mL

Prep Date: 2/22/2022

Exp Date: 11/23/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: 2X dilution of Triacontane SURR 2000 ug/mL

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 10 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|------------|
| Acetone EA776 | 13927 | 5 | mL | 11/23/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220222A | ug/mL | 5 mL |

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CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C18H14
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

| Analytical Test | Value |
|--------------------|-----------------------|
| FT-IR SPECTROSCOPY | CONFORMS TO STRUCTURE |
| GC/MS SPECTRA ID | MATCHES NIST DATABASE |
| MELTING POINT (°C) | 57.1 |
| % PURITY (GC/FID) | 99.5 |

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street

Billings MT 59107

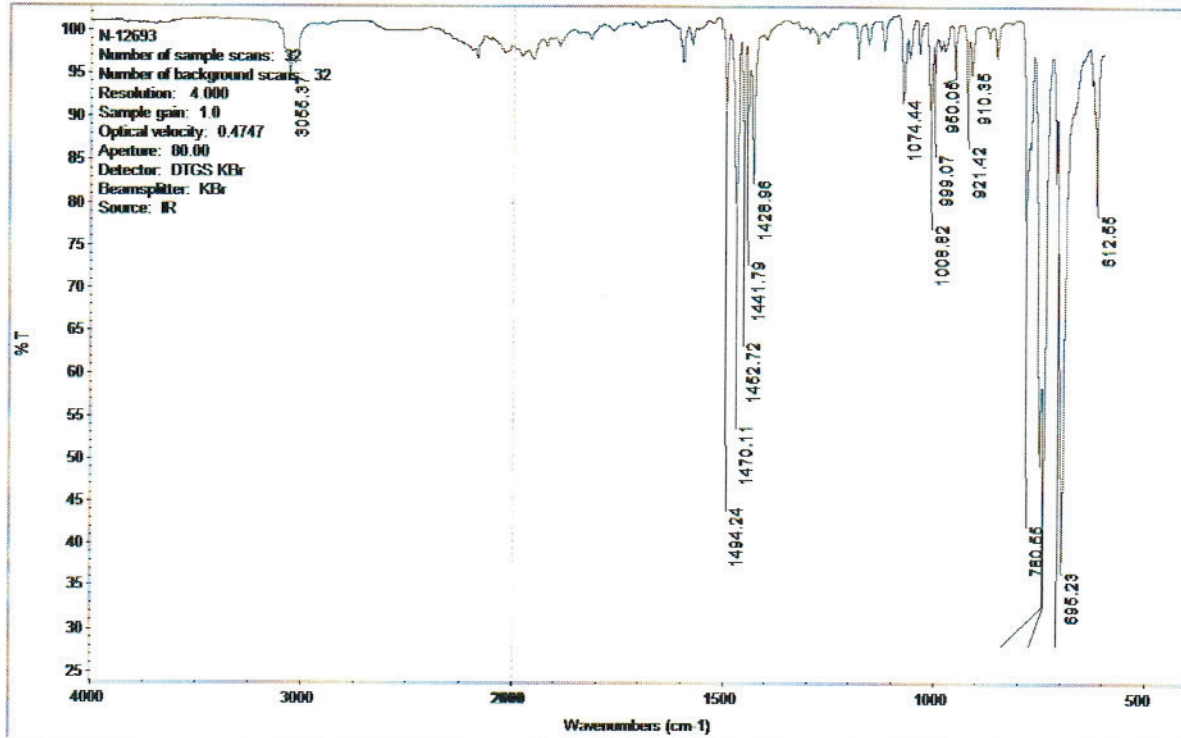
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 11.844 | 1597 | 1606 | 1613 | BB | 32038221 | 432253484 | 100.00% | 100.000% |

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

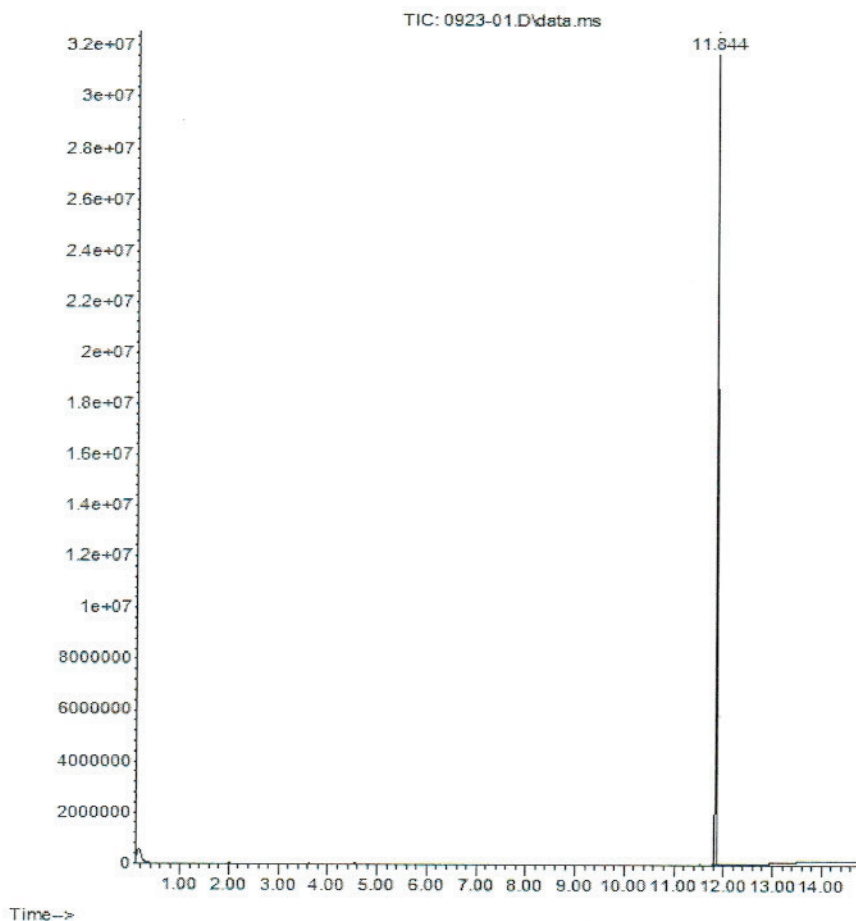
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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



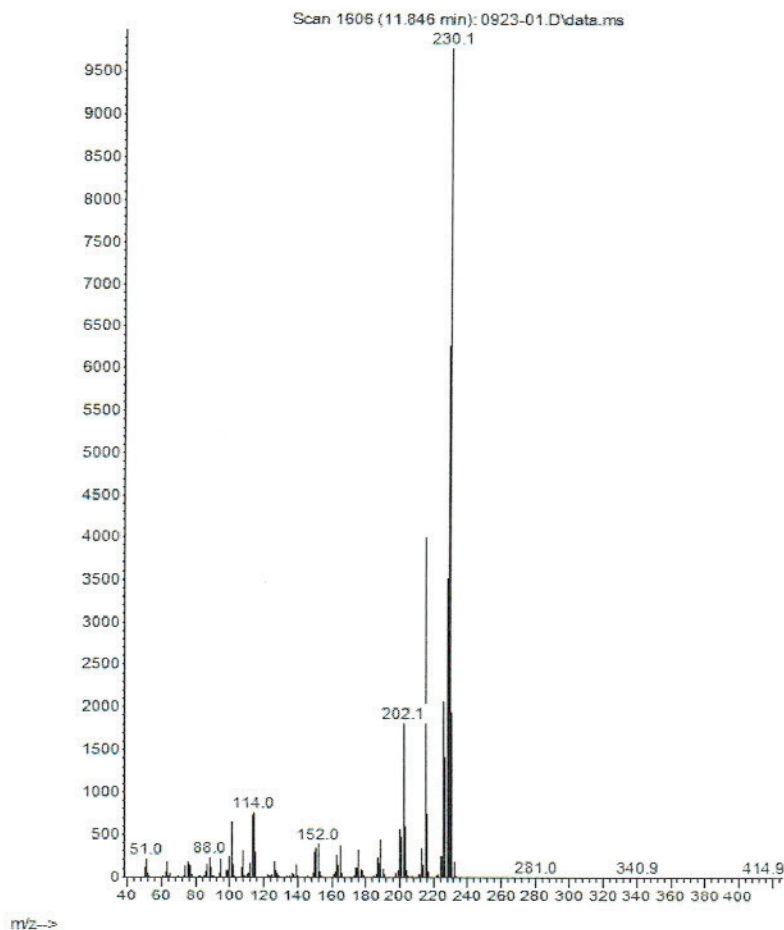
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



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CERTIFICATE OF ANALYSIS

Analysis Method:

| | |
|------------------|---------------|
| Catalog Number: | N-12693-500MG |
| Description: | o-Terphenyl |
| Lot Number: | 9972100 |
| Expiration Date: | 09/30/24 |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



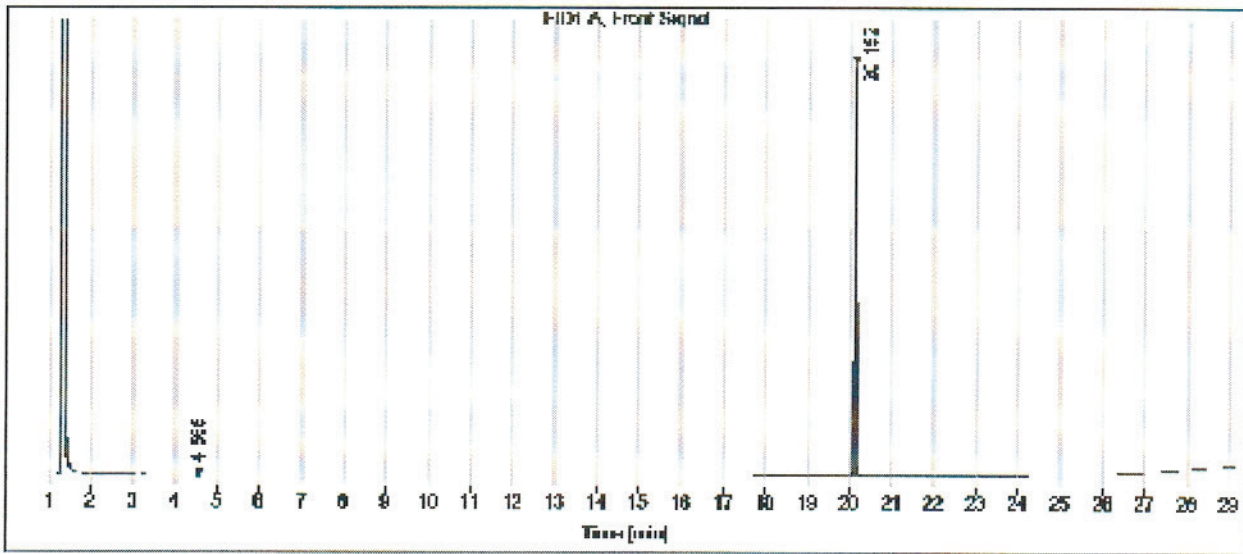
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Gas

Data file: C:\CHEM3\
 Sample name: N-12893
 Instrument: GC 2
 Injection date: 8/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

| RT [min] | Type | Width [min] | Area | Height | Area% |
|----------|------|-------------|-----------|----------|-------|
| 4.565 | BB | 0.0305 | 1.2408 | 0.5122 | 0.11 |
| 20.152 | BB | 0.0391 | 1171.9556 | 439.4599 | 99.89 |
| | | Sum | 1173.1963 | | |

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3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

TRIACONTANE-D62, 98 ATOM % D

Product Number:

451789

Batch Number:

MBBD2031

Brand:

ALDRICH

CAS Number:

93952-07-9

MDL Number:

MFCD00209794

Formula:

C30D62

Formula Weight:

485.20 g/mol

Quality Release Date:

18 JUN 2021



ID #: 14545

Opened: _____

Triacontane-d62-98 atom % D

Expires: 11/23/2026

Rec'd: 11/23/2021

Enerav Laboratories Inc 1120 So. 27th Street
Billings MT 59107

| Test | Specification | Result |
|-----------------------|-----------------------|----------|
| Purity (HPLC) | ≥ 99 % | 99 % |
| Proton NMR Spectrum | Conforms to Structure | Conforms |
| D Enrichment | ≥ 98.0 % | 98.9 % |
| Initial Melting Point | | 60 °C |
| Final Melting Point | | 62 °C |



Laura E. Baird, Manager
Quality Assurance & Control
Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO200430B

Standard Name: O-Terphenyl

Prep Date: 4/30/2020

Exp Date: 9/30/2024

Department: dropr

Vendor: Chemservice

Lot Number: 9972100

Balance ID:

Comments: ID#: 6271

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| o-Terphenyl | 12650 | 500 | mg | 9/30/2024 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO210406A

Standard Name: Triacontane-d62 Surr For AK103 RRO

Prep Date: 4/6/2021

Exp Date: 4/6/2026

Department: dropr

Vendor: Sigma-Aldrich

Lot Number: MBBC4347

Balance ID:

Comments: Alaska surr [for AK103 RRO]

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------------|-----------------------|--------------|-------|----------|
| Triacontane-d62-98 atom % D | 13736 | 500 | mg | 4/6/2026 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO211006A

Standard Name: Triacontane SURR 2000 ug/mL

Prep Date: 10/6/2021

Exp Date: 4/6/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: Triacontane SURR 2000 ug/mL

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 50 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|----------|
| Acetone DZ509 | 13553 | 50 | mL | 4/6/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO210406A | ug/mL | 0.1001 g |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Spike ID: DRO211101A
Spike Name: OTP-4000 ug/mL DCM
Prep Date: 11/1/2021
Exp Date: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary
Prep By: Ann Nebel
Status: Open

Final Volume: 25 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Dichloromethane EC328 | 14408 | 25 | mL | 9/30/2024 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO200430B | ug/mL | 0.1012 g |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO211118A

Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DCM

Prep Date: 11/18/2021

Exp Date: 10/31/2028

Department: dropr

Vendor: Restek

Lot Number: A0176667

Balance ID: Sartorius 4 place balance

Comments:

Type: Primary

Prep By: Ann Nebel

Status: Open

Final Volume: 1 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-------------------------------------|-----------------------|-----|-------|------------|
| Residual Range Calibration Standard | 14531 | 1 | mL | 10/31/2028 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211118A | ug/mL | |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO211214C

Standard Name: Diesel Fuel #2 50,000 ug/mL in DCM

Prep Date: 12/14/2021

Exp Date: 4/30/2023

Department: dropr

Vendor: Sigma-Aldrich

Lot Number: LRAC6316

Balance ID:

Comments: Diesel Fuel #2 For CCVs.

Type: Primary

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| Diesel Fuel No. 2 | 14623 | 1 | mL | 4/30/2023 |
| Stock Source | Base Units | Amount Added | | |
| DRO211214C | ug/mL | | | |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO220110A

Standard Name: Carbon Scan STD-Marker

Prep Date: 1/11/2022

Exp Date: 7/13/2026

Department: dropr

Vendor: ASI2

Lot Number: 55064

Balance ID:

Comments: FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

Type: Neat

Prep By: Ann Nebel

Status: Open

Final Volume: 1.2 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|--|-----------------------|-----|-------|-----------|
| n-Hydrocarbons- C5 to C30, C32, C34, C36, C38, C40 | 14737 | 1.2 | mL | 7/13/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220110A | ug/mL | |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO220119A

Standard Name: Triacontane SURR 1000 ug/mL

Prep Date: 1/19/2022

Exp Date: 4/6/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: 2X dilution of Triacontane SURR 2000 ug/mL

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 10 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|----------|
| Dichloromethane EC849 | 14747 | 5 | mL | 4/6/2026 |
| Stock Source | Base Units | Amount Added | | |
| DRO211006A | ug/mL | 5 mL | | |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO220128B

Standard Name: Carbon Scan STD-Marker

Prep Date: 1/28/2022

Exp Date: 7/13/2026

Department: dropr

Vendor: ASI2

Lot Number: 071306

Balance ID:

Comments: FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

Type: Primary

Prep By: Jillian L Bostwick

Status: Open

Final Volume: 2.4 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|------------------------|----------------------|-----|-------|-----------|
| Carbon Disulfide 55064 | 7477 | 1.2 | mL | 7/13/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220110A | ug/mL | 1.2 mL |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO220201A

Standard Name: 5,000 ug/mL RRO CCV 200 ug/mL Triacontane

Type: Secondary

Prep Date: 2/1/2022

Prep By: Ann Nebel

Exp Date: 4/6/2026

Status: New

Department: dropr

Vendor:

Final Volume: 4 mL

Lot Number:

Balance ID:

Comments: CCV for AK102 and 8015C RRO.

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|------------------------|-----------------------|-----|-------|----------|
| Dichloromethane EC 978 | 14777 | 2.8 | mL | 4/6/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220119A | ug/mL | 800 µL |
| DRO211118A | ug/mL | 400 µL |



Analytical RunID GCFID-HP5-B_220228A Standards Traceability Report

Standard ID: DRO220211A

Standard Name: 8015 CCV-15,000ug/mL + 200 OTP

Prep Date: 2/11/2022

Exp Date: 4/30/2023

Department: dropr

Vendor:

Lot Number:

Balance ID:

Comments: 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

Type: Secondary

Prep By: Ann Nebel

Status: New

Final Volume: 4 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|------------------------|-----------------------|-----|-------|-----------|
| Dichloromethane EC 978 | 14777 | 2.6 | mL | 4/30/2023 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211214C | ug/mL | 1.2 mL |
| DRO211101A | ug/mL | 0.2 mL |

Anna

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CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C18H14
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

| Analytical Test | Value |
|--------------------|-----------------------|
| FT-IR SPECTROSCOPY | CONFORMS TO STRUCTURE |
| GC/MS SPECTRA ID | MATCHES NIST DATABASE |
| MELTING POINT (°C) | 57.1 |
| % PURITY (GC/FID) | 99.5 |

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street
Billings MT 59107

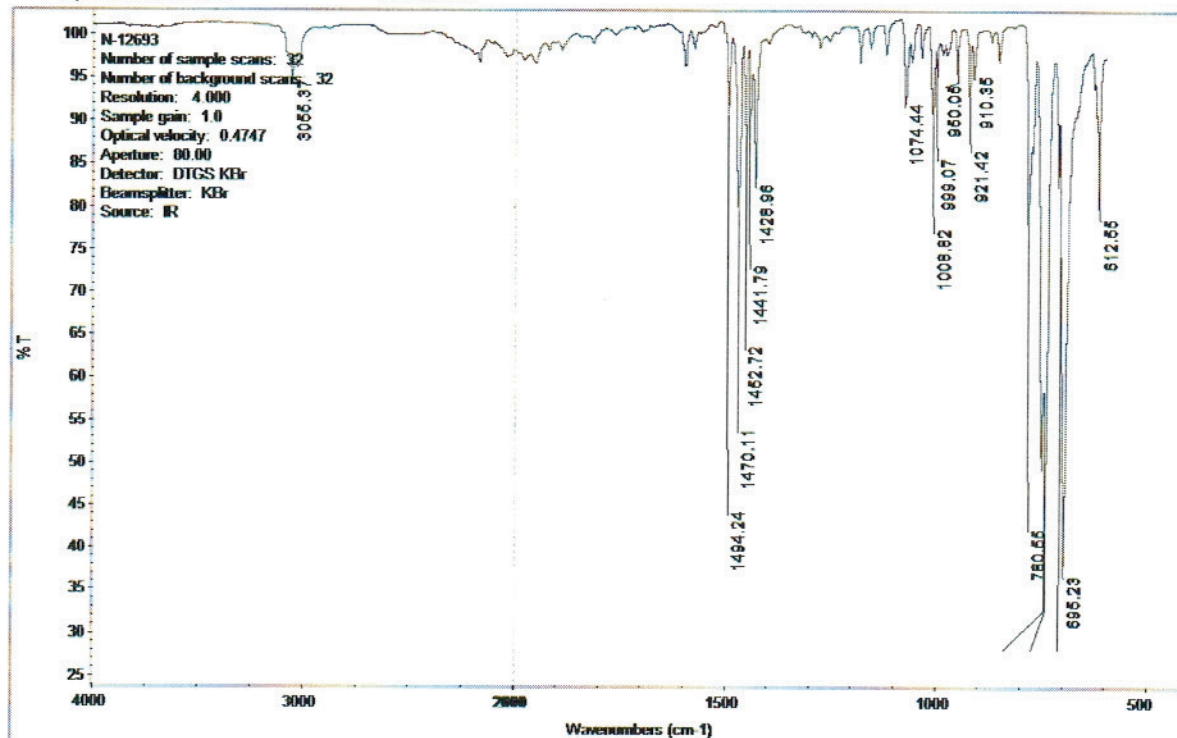
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 11.844 | 1597 | 1606 | 1613 | BB | 32038221 | 432253484 | 100.00% | 100.000% |

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

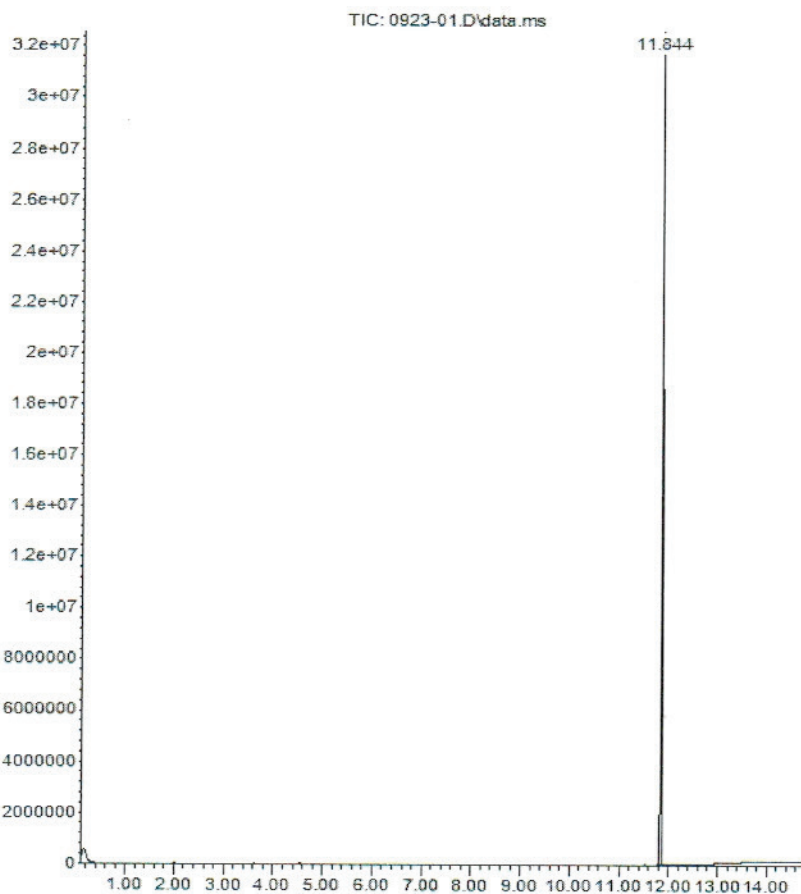


CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



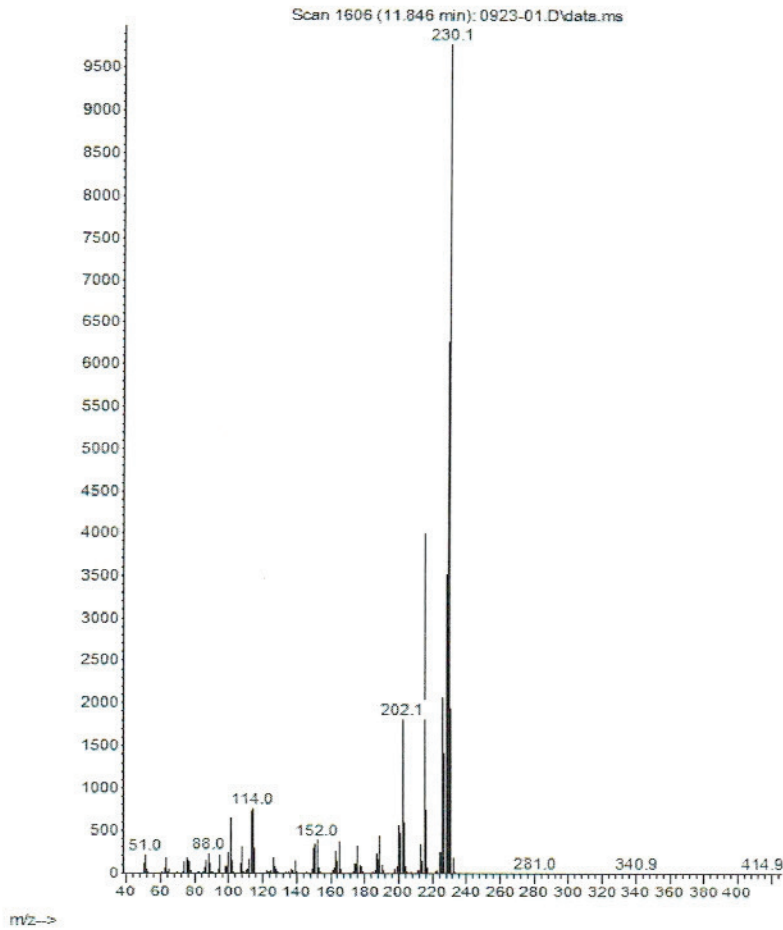
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CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

| | |
|------------------|---------------|
| Catalog Number: | N-12693-500MG |
| Description: | o-Terphenyl |
| Lot Number: | 9972100 |
| Expiration Date: | 09/30/24 |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



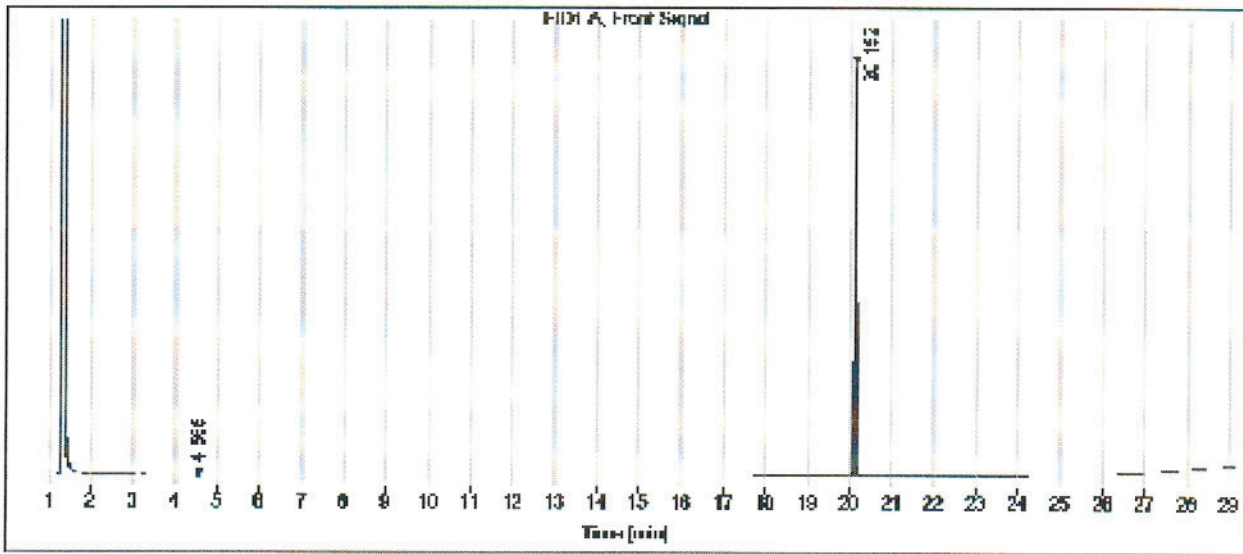
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info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
 Sample name: N-12893
 Instrument: GC 2
 Injection date: 8/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

| RT [min] | Type | Width [min] | Area | Height | Area% |
|----------|------|-------------|-----------|----------|-------|
| 4.565 | BB | 0.0305 | 1.2408 | 0.5122 | 0.11 |
| 20.152 | BB | 0.0391 | 1171.9556 | 439.4599 | 99.89 |
| | | Sum | 1173.1963 | | |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

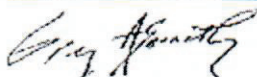
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| Test | Specification | Result |
|-----------------------|-----------------------|----------|
| Purity (HPLC) | ≥ 99.0 % | 99.0 % |
| Proton NMR Spectrum | Conforms to Structure | Conforms |
| D Enrichment | ≥ 98.0 % | 99.0 % |
| Initial Melting Point | | 60.0 °C |
| Final Melting Point | | 62.0 °C |



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817

Lot No.: A0176667

Description : Residual Range Calibration Standard (RCS)

Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2028

Storage: 25°C nominal

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---------------|--|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----% | 50,102.0 µg/mL | +/- 293.3582 | µg/mL | Gravimetric |
| | (Lot A0126386) | | +/- 1,492.1008 | µg/mL | Unstressed |
| | | | +/- 1,591.3244 | µg/mL | Stressed |

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 14531

Opened: _____

Residual Range Calibration Standard

Expires: 10/31/2028

Rec'd: 11/18/2021

Energ Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

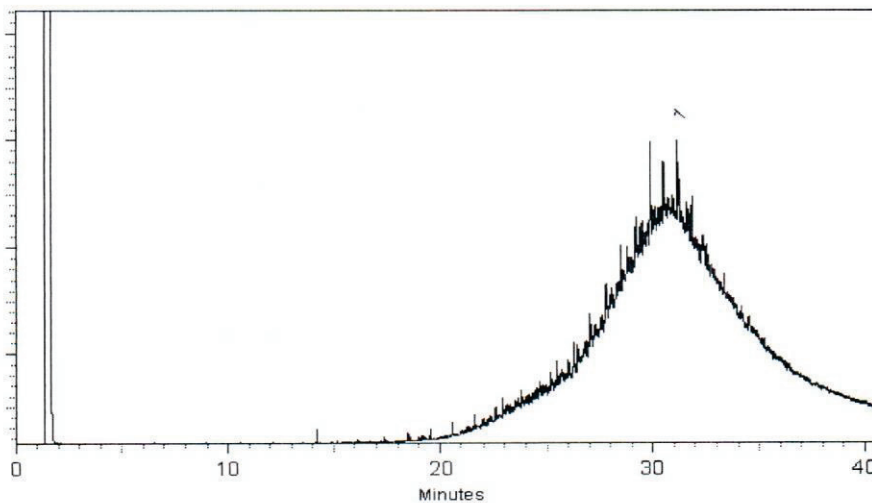
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

Alexis Shelow

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer) -20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Diesel Fuel No. 2

Certified
Reference
Material

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14623

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

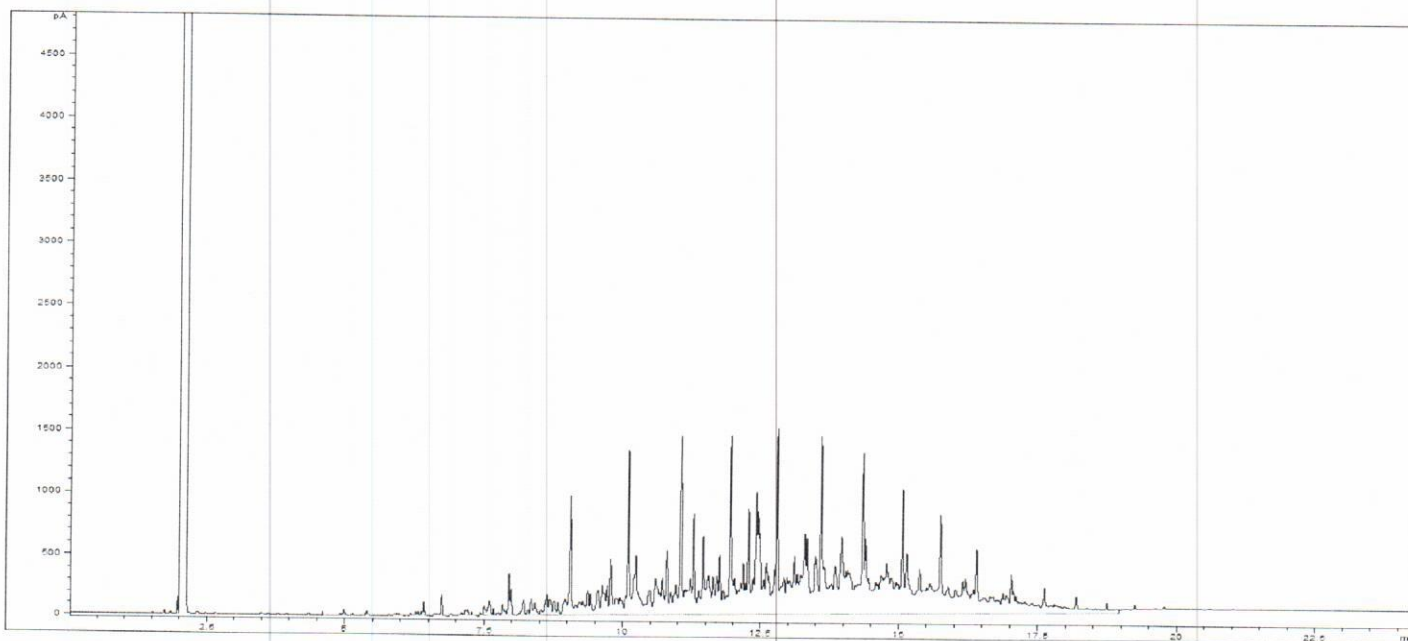
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

| Analyte | Certified Value ^{1,4} | Units | Raw Material Purity,% | Raw Material Lot | CAS |
|---------------|--------------------------------|-------|-----------------------|------------------|------------|
| NO.2 FUEL OIL | 50001 ± 2770 | µg/mL | 100.0 | LA80505 | 68476-34-6 |

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

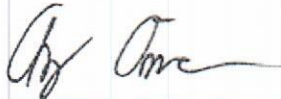
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager

Certification Date April 30, 2020
Version 0-4302020



Mark Pooler - QA Supervisor





Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO200430B

Standard Name: O-Terphenyl

Prep Date: 4/30/2020

Exp Date: 9/30/2024

Department: dropr

Vendor: Chemservice

Lot Number: 9972100

Balance ID:

Comments: ID#: 6271

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|-----------|
| o-Terphenyl | 12650 | 500 | mg | 9/30/2024 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO210406A

Standard Name: Triacontane-d62 Surr For AK103 RRO

Prep Date: 4/6/2021

Exp Date: 4/6/2026

Department: dropr

Vendor: Sigma-Aldrich

Lot Number: MBBC4347

Balance ID:

Comments: Alaska surr [for AK103 RRO]

Type: Neat

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------------|-----------------------|--------------|-------|----------|
| Triacontane-d62-98 atom % D | 13736 | 500 | mg | 4/6/2026 |
| Stock Source | Base Units | Amount Added | | |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO211006A

Standard Name: Triacontane SURR 2000 ug/mL

Prep Date: 10/6/2021

Exp Date: 4/6/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: Triacontane SURR 2000 ug/mL

Type: Primary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 50 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|----------|
| Acetone DZ509 | 13553 | 50 | mL | 4/6/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO210406A | ug/mL | 0.1001 g |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Spike ID: DRO211101A
Spike Name: OTP-4000 ug/mL DCM
Prep Date: 11/1/2021
Exp Date: 9/30/2024
Department: dropr
Vendor:
Lot Number:
Balance ID: BAL-DRO
Comments: Used to Prep DRO-8015 ICAL and CCV Solutions

Type: Secondary
Prep By: Ann Nebel
Status: Open

Final Volume: 25 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Dichloromethane EC328 | 14408 | 25 | mL | 9/30/2024 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO200430B | ug/mL | 0.1012 g |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO211118A

Standard Name: 50,000 ug/mL Oil Std For AK103 RRO-In DCM

Prep Date: 11/18/2021

Exp Date: 10/31/2028

Department: dropr

Vendor: Restek

Lot Number: A0176667

Balance ID: Sartorius 4 place balance

Comments:

Type: Primary

Prep By: Ann Nebel

Status: Open

Final Volume: 1 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-------------------------------------|-----------------------|-----|-------|------------|
| Residual Range Calibration Standard | 14531 | 1 | mL | 10/31/2028 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211118A | ug/mL | |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO211214C

Standard Name: Diesel Fuel #2 50,000 ug/mL in DCM

Prep Date: 12/14/2021

Exp Date: 4/30/2023

Department: dropr

Vendor: Sigma-Aldrich

Lot Number: LRAC6316

Balance ID:

Comments: Diesel Fuel #2 For CCVs.

Type: Primary

Prep By: Ann Nebel

Status: New

Final Volume: mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Diesel Fuel No. 2 | 14623 | 1 | mL | 4/30/2023 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211214C | ug/mL | |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO220110A

Standard Name: Carbon Scan STD-Marker

Prep Date: 1/11/2022

Exp Date: 7/13/2026

Department: dropr

Vendor: ASI2

Lot Number: 55064

Balance ID:

Comments: FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

Type: Neat

Prep By: Ann Nebel

Status: Open

Final Volume: 1.2 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|--|-----------------------|-----|-------|-----------|
| n-Hydrocarbons- C5 to C30, C32, C34, C36, C38, C40 | 14737 | 1.2 | mL | 7/13/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220110A | ug/mL | |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO220119A

Standard Name: Triacontane SURR 1000 ug/mL

Prep Date: 1/19/2022

Exp Date: 4/6/2026

Department: dropr

Vendor:

Lot Number:

Balance ID: BAL-DRO

Comments: 2X dilution of Triacontane SURR 2000 ug/mL

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 10 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|--------------|-------|----------|
| Dichloromethane EC849 | 14747 | 5 | mL | 4/6/2026 |
| Stock Source | Base Units | Amount Added | | |
| DRO211006A | ug/mL | 5 mL | | |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO220128B

Standard Name: Carbon Scan STD-Marker

Prep Date: 1/28/2022

Exp Date: 7/13/2026

Department: dropr

Vendor: ASI2

Lot Number: 071306

Balance ID:

Comments: FOR Qualitative analyst only.31 compounds-C5 to C30,32,34,36,38,40.

Type: Primary

Prep By: Jillian L Bostwick

Status: Open

Final Volume: 2.4 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|------------------------|----------------------|-----|-------|-----------|
| Carbon Disulfide 55064 | 7477 | 1.2 | mL | 7/13/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220110A | ug/mL | 1.2 mL |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO220201A

Standard Name: 5,000 ug/mL RRO CCV 200 ug/mL Triacontane

Type: Secondary

Prep Date: 2/1/2022

Prep By: Ann Nebel

Exp Date: 4/6/2026

Status: New

Department: dropr

Vendor:

Final Volume: 4 mL

Lot Number:

Balance ID:

Comments: CCV for AK102 and 8015C RRO.

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|------------------------|-----------------------|-----|-------|----------|
| Dichloromethane EC 978 | 14777 | 2.8 | mL | 4/6/2026 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO220119A | ug/mL | 800 µL |
| DRO211118A | ug/mL | 400 µL |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO220211A

Standard Name: 8015 CCV-15,000ug/mL + 200 OTP

Prep Date: 2/11/2022

Exp Date: 4/30/2023

Department: dropr

Vendor:

Lot Number:

Balance ID:

Comments: 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

Type: Secondary

Prep By: Ann Nebel

Status: New

Final Volume: 4 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|------------------------|-----------------------|-----|-------|-----------|
| Dichloromethane EC 978 | 14777 | 2.6 | mL | 4/30/2023 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211214C | ug/mL | 1.2 mL |
| DRO211101A | ug/mL | 0.2 mL |



Analytical RunID GCFID-HP5-B_220301A Standards Traceability Report

Standard ID: DRO220301A

Standard Name: 8015 CCV-15,000ug/mL + 200 OTP

Prep Date: 3/1/2022

Exp Date: 4/30/2023

Department: dropr

Vendor:

Lot Number:

Balance ID:

Comments: 8015DRO CCV MIX-15,000ug/mL +200 OTP #2 Diesel

Type: Secondary

Prep By: Jillian L Bostwick

Status: New

Final Volume: 4 mL

| Chemical/Solvent Used | Bottle No | Amt | Units | Expires |
|-----------------------|-----------------------|-----|-------|-----------|
| Dichloromethane ED092 | 14828 | 2.6 | mL | 4/30/2023 |

| Stock Source | Base Units | Amount Added |
|--------------|------------|--------------|
| DRO211214C | ug/mL | 1.2 mL |
| DRO211101A | ug/mL | 0.2 mL |

660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

o-Terphenyl

CATALOG NUMBER N-12693-500MG
LOT NUMBER 9972100
DATE CERTIFIED 09/23/19
EXPIRATION DATE 09/30/24
CAS NUMBER 84-15-1
MOLECULAR FORMULA C18H14
MOLECULAR WEIGHT 230.32
STORAGE Store in a cool dry place.
HANDLING See Safety Data Sheet
INTENDED USE For laboratory use only.

| Analytical Test | Value |
|--------------------|-----------------------|
| FT-IR SPECTROSCOPY | CONFORMS TO STRUCTURE |
| GC/MS SPECTRA ID | MATCHES NIST DATABASE |
| MELTING POINT (°C) | 57.1 |
| % PURITY (GC/FID) | 99.5 |

Chem Service, Inc. guarantees the purity to be +/- 0.5% deviation prior to the expiration date shown on the label and exclusive of any customer contamination.

Certified By:

Mary Beth O'Donnell

Mary Beth O'Donnell
CSM/TC

ID #: 12650

Opened: _____

o-Terphenyl

Expires: 9/30/2024

Rec'd: 4/30/2020

Energyl Laboratories Inc 1120 So. 27th Street

Billings MT 59107

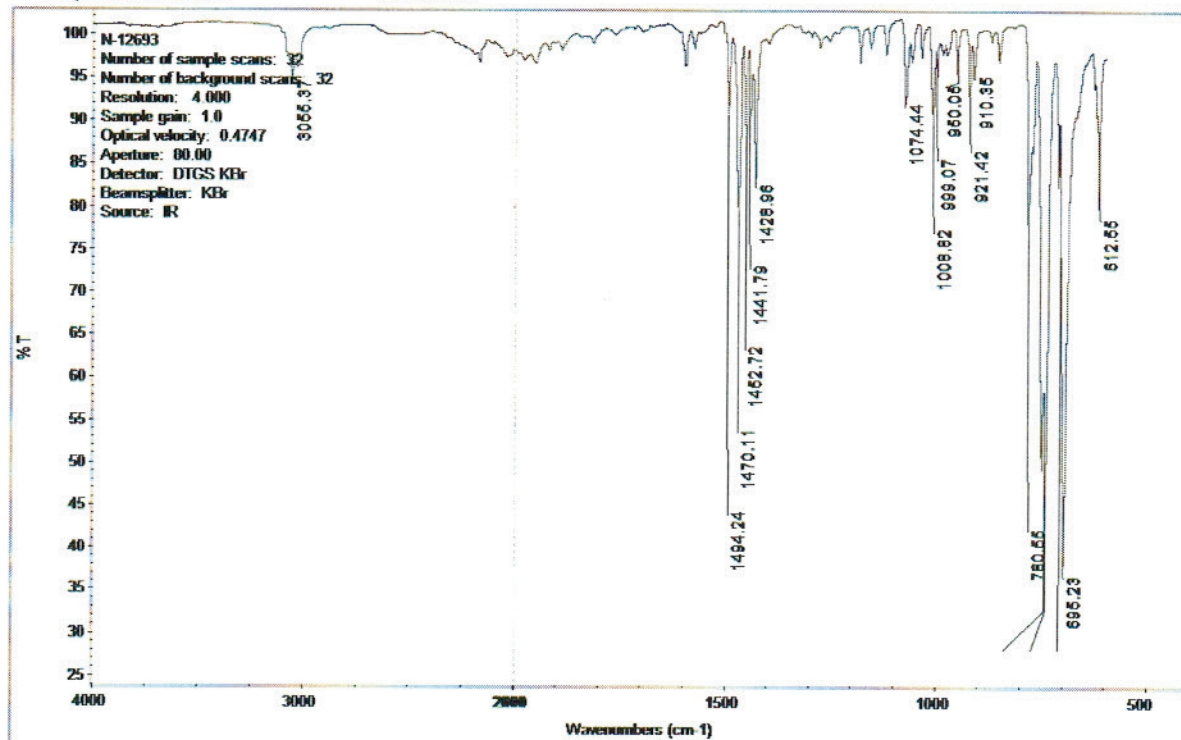
Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Chem Service Inc Area Percent Report

Data File: D:\msdchem\2019 DATA\0919\0923-01.D
Acq On : 23 Sep 2019 10:40
Operator :
Sample : n-12693
Misc :
ALS Vial : 95

Integration Parameters: autoint1.e
Integrator: ChemStation

DataAcq Meth: SCREEN.M
Method : D:\msdchem\2019 DATA\0919\0903-09.D\ERIN.M

Signal : TIC: 0923-01.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1 | 11.844 | 1597 | 1606 | 1613 | BB | 32038221 | 432253484 | 100.00% | 100.000% |

Sum of corrected areas: 432253484

ERIN.M Mon Sep 23 10:55:51 2019

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



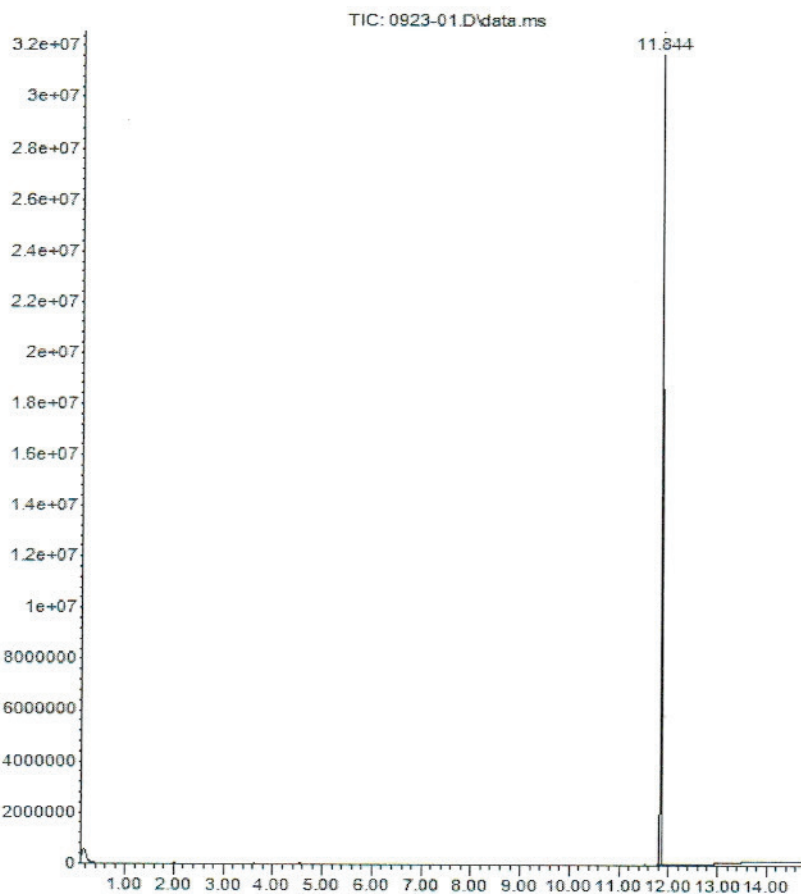
660 Tower Lane • P.O. Box 599 • West Chester, PA 19381-0599
1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Time-->

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

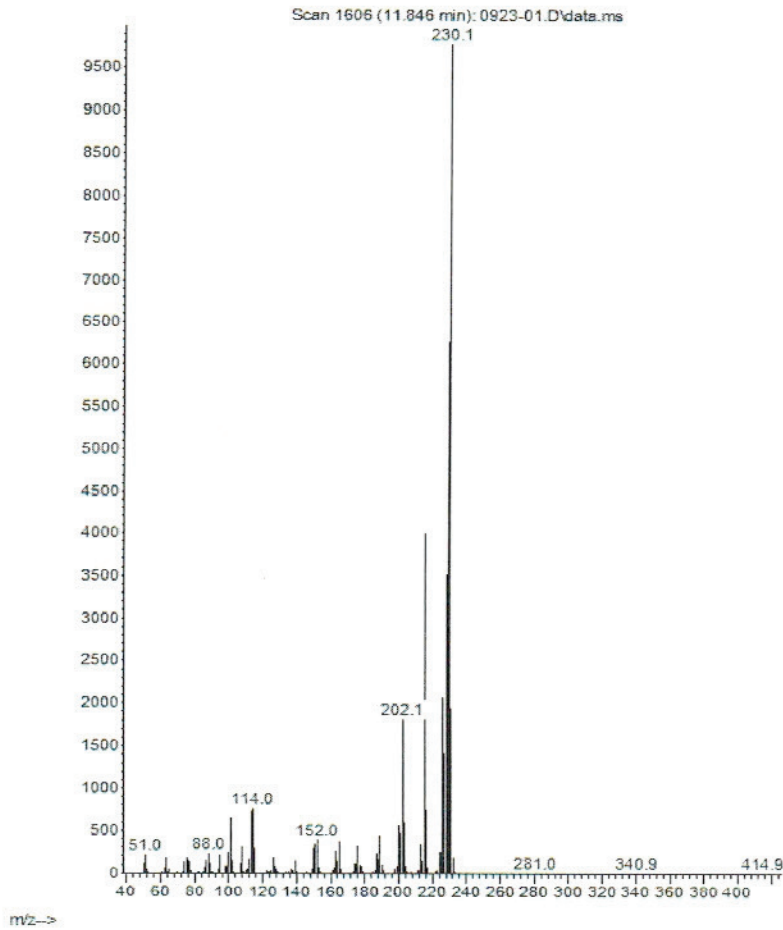


CERTIFICATE OF ANALYSIS

Analysis Method:

Catalog Number: N-12693-500MG
Description: o-Terphenyl
Lot Number: 9972100
Expiration Date: 09/30/24

Abundance



Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015.



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1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

CERTIFICATE OF ANALYSIS

Analysis Method:

| | |
|------------------|---------------|
| Catalog Number: | N-12693-500MG |
| Description: | o-Terphenyl |
| Lot Number: | 9972100 |
| Expiration Date: | 09/30/24 |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015



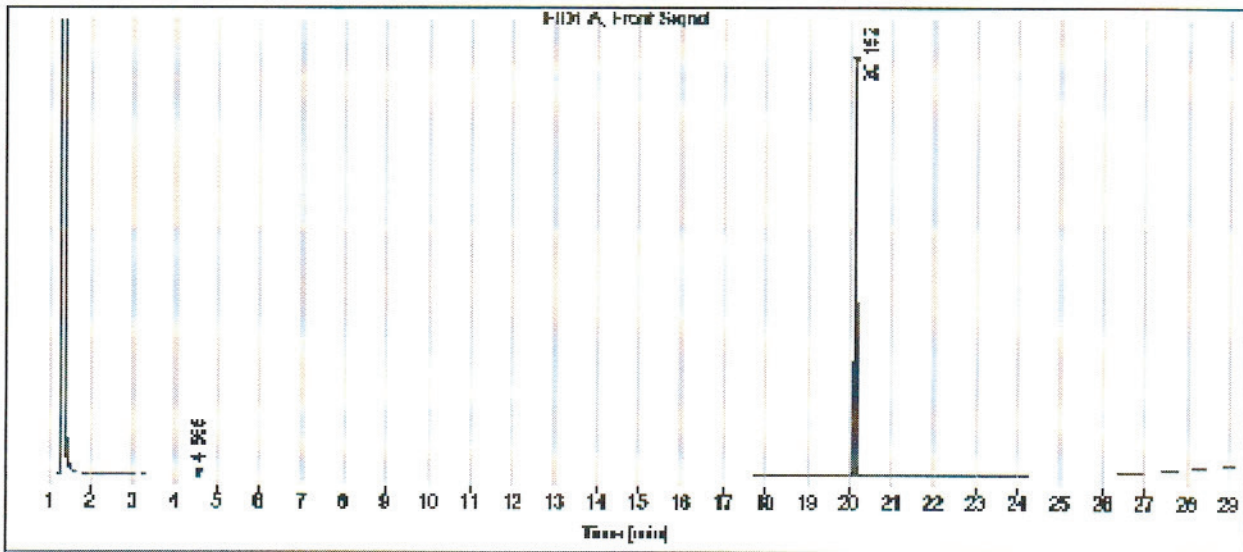
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 1-800-452-9994 • 1-610-692-3026 • Fax 1-610-692-8729
info@chemservice.com • www.chemservice.com

Gas

Data file: C:\CHEM3\
 Sample name: N-12893
 Instrument: GC 2
 Injection date: 8/23/2019 9:58:34 AM
 Acq. method: SCREEN.M
 Column name: HP-5

CERTIFICATE OF ANALYSIS

Location: Vial 141
 Injection volume: 1.0uL



Signal: FID1 A, Front Signal

| RT [min] | Type | Width [min] | Area | Height | Area% |
|----------|------|-------------|-----------|----------|-------|
| 4.565 | BB | 0.0305 | 1.2408 | 0.5122 | 0.11 |
| 20.152 | BB | 0.0391 | 1171.9556 | 439.4599 | 99.89 |
| | | Sum | 1173.1963 | | |

Chem Service is accredited to ISO 17034:2016, ISO/IEC 17025:2017 and certified to ISO 9001:2015

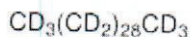


3050 Spruce Street, Saint Louis, MO 63103, USA
 Website: www.sigmaaldrich.com
 Email USA: techserv@sial.com
 Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
 Triacontane-d62 - 98 atom % D

Product Number: 451789
 Batch Number: MBBC4347
 Brand: ALDRICH
 CAS Number: 93952-07-9
 MDL Number: MFCD00209794
 Formula: C30D62
 Formula Weight: 485.20 g/mol
 Quality Release Date: 27 APR 2018



ID #: 13736

Opened: _____

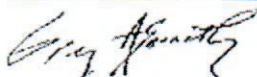
Triacontane-d62-98 atom % D

Expires: 4/6/2026

Rec'd: 4/6/2021

Energx Laboratories Inc 1120 So. 27th Street
 Billings MT 59107

| Test | Specification | Result |
|-----------------------|-----------------------|----------|
| Purity (HPLC) | ≥ 99.0 % | 99.0 % |
| Proton NMR Spectrum | Conforms to Structure | Conforms |
| D Enrichment | ≥ 98.0 % | 99.0 % |
| Initial Melting Point | | 60.0 °C |
| Final Melting Point | | 62.0 °C |



Greg Abernathy, Supervisor
 Quality Control
 Miamisburg, Ohio US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.



CERTIFIED REFERENCE MATERIAL

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

Certificate of Analysis



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31817

Lot No.: A0176667

Description : Residual Range Calibration Standard (RCS)

Residual Range Calib Std (RCS) 50,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : October 31, 2028

Storage: 25°C nominal

Ship: Ambient

CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | | |
|---------------|--|-----------------------------|--------------------------------------|-------|-------------|
| 1 | Motor Oil SAE30 & SAE40 Blend (Pennzoil) CAS # 64742-65-0.F Purity ----% | 50,102.0 µg/mL | +/- 293.3582 | µg/mL | Gravimetric |
| | (Lot A0126386) | | +/- 1,492.1008 | µg/mL | Unstressed |
| | | | +/- 1,591.3244 | µg/mL | Stressed |

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

ID #: 14531

Opened: _____

Residual Range Calibration Standard

Expires: 10/31/2028

Rec'd: 11/18/2021

Energ Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

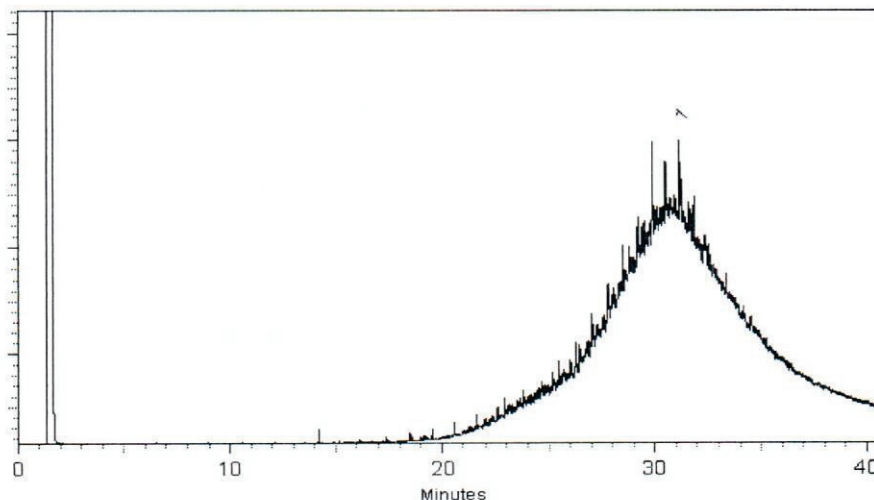
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler

Sam Moodler - Operations Tech I

Date Mixed: 22-Sep-2021

Balance: 1128360905

Alexis Shelow

Alexis Shelow - Operations Tech I

Date Passed: 23-Sep-2021

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---------------------|-------------------------|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer) -20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Diesel Fuel No. 2

*Certified
Reference
Material*

Description

Product ID UST148
Lot LRAC6316
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

ID #: 14623

Opened: _____

Diesel Fuel No. 2

Expires: 4/30/2023

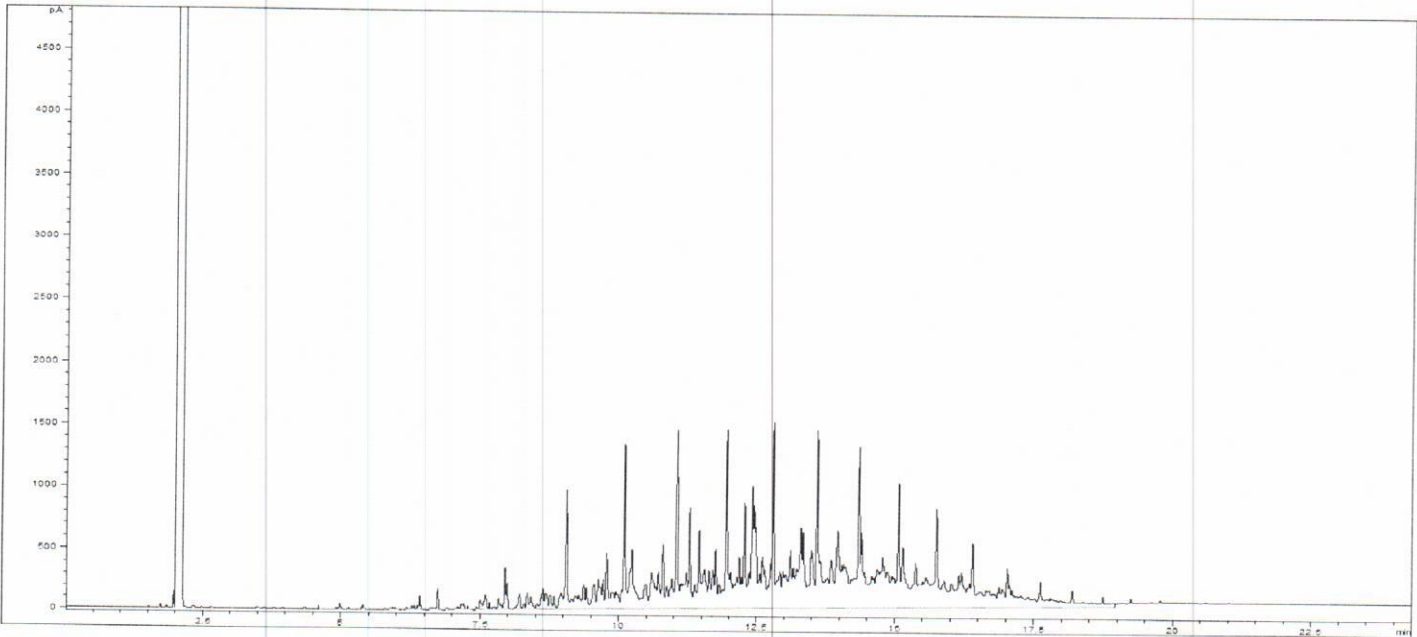
Rec'd: 12/14/2021

Energy Laboratories Inc 1120 So. 27th Street
Billings MT 59107

Certified Values

| Analyte | Certified Value ^{1,4} | Units | Raw Material Purity,% | Raw Material Lot | CAS |
|---------------|--------------------------------|-------|-----------------------|------------------|------------|
| NO.2 FUEL OIL | 50001 ± 2770 | µg/mL | 100.0 | LA80505 | 68476-34-6 |

Informational Values



Additional Information:

Analytical Method Parameters:

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #214)

Carrier Gas: H₂, Flow: 4.0 mL/min

Inlet Temperature: 250 °C, Injection Volume: 1.0 µL

Injection Mode: Split, Split Ratio: 10: 1

Temperature Program: 40 °C (Hold 2 min) @ 15 °C/min to 300 °C (Hold 5 min)

Detector: FID

Detector Temperature: 300 °C



SIGMA-ALDRICH®

2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot **LRAC6316**
Expiration Date April 2023
Manufacturing Date April 2020
Storage Conditions Room Temperature
Solvent/Matrix DICHLOROMETHANE

1 Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a t-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$U_{CRM} = \sqrt{u_{char}^2 + u_{homogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

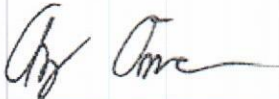
Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH ISO/IEC 17025:2017 (ANAB Cert AT-1467) and ISO 17034:2016 (ANAB Cert AR-1470).



Andy Ommen - QC Manager

Certification Date April 30, 2020
Version 0-4302020



Mark Pooler - QA Supervisor

