PIELIKUMI

1. Pielikums
Zemes dzīļu izmantošanas licences kopija un laboratoriju akreditācijas apliecību kopijas

Valsts vides dienests

Rūpniecības iela 23, Rīga, LV-1045, tālr. 67084200, e-pasts pasts@vvd.gov.lv, www.vvd.gov.lv

ZEMES DZĪĻU IZMANTOŠANAS LICENCE
Nr.CS20ZD0256

Izsniegta AS „VentEko”, reģistrācijas numurs: 41203008864, e-pasts: info@venteko.com

(pašvaldības nosaukums, komersanta firma un reģistrācijas numurs vai fiziskās personas vārds, uzvārds un personas kods)

Ģeoekoloģiskā izpēte

(zemes dzīļu izmantošanas veids)

Degvielas uzpildes stacijas, naftas bāzes, katlu mājas, sadzīves atkritumu izgāztuves un piesārņotas vai potenciāli piesārņotas teritorijas

(licencētais objekts)

Latvijas teritorija

(licencētā objekta administratīvā piederība, ja iespējams, adrese)

Licence izsniegta Rīgā un derīga	**Dokumenta datums ir tā elektroniskās parakstīšanas datums līdz 2021.gada 26.septembrim**

Pielikumā:

Nr.p.k.	Pielikuma nosaukums	Lpp. skaits
1.	zemes dzīļu izmantošanas nosacījumi	2
2.	karte vai plāns, kurā attēlo atradnes robežu, licences adresāta īpašumā vai nomā esošo zemesgabala robežas, licences laukuma robežu ar robežpunktiem; tabula ar robežpunktu koordinātām LKS-92 TM sistēmā	-
3.	derīgo izrakteņu ieguves limits	-

Licences pielikumi ir tās neatņemama sastāvdaļa

Vides resursu pārvaldības departamenta direktore **(L.Dukaļska)**

(paraksts un tā atšifrējums)

Z.v.

ŠIS DOKUMENTS IR PARAKSTĪTS AR DROŠU ELEKTRONISKO PARAKSTU UN SATUR LAIKA ZĪMOGU

Zemes dzīļu izmantošanas licenci vai tajā noteiktos nosacījumus mēneša laikā no paziņošanas dienas var pārsūdzēt Vides pārraudzības valsts birojam, iesniegumu par apstrīdēšanu iesniedzot Valsts vides dienestā, Rūpniecības ielā 23, Rīgā, LV-1045, e-pasta adrese: pasts@vvd.gov.lv. Saskaņā ar Paziņošanas likuma 9.panta otro daļu zemes dzīļu izmantošanas licence uzskatāma par paziņotu otrajā darba dienā pēc tās nosūtīšanas.

Zemes dzīļu izmantošanas nosacījumi

I. Vispārīgie zemes dzīļu izmantošanas nosacījumi

1.	**Licences derīguma termiņš**	2020.gada 27.septembris līdz 2021.gada 26.septembris.
2.	**Licences izsniegšanas pamatojums**	a) Likuma „Par zemes dzīlēm” 10.panta pirmās daļas 3.punkta „e” apakšpunkts un 2^1.daļa; b) Ministru kabineta 2011.gada 6.septembra noteikumu Nr.696 „Zemes dzīļu izmantošanas licenču un bieži sastopamo derīgo izrakteņu ieguves atļauju izsniegšanas kārtība, kā arī publiskas personas zemes iznomāšanas kārtība zemes dzīļu izmantošanai” (turpmāk - MK noteikumi Nr.696) 4.1.apakšpunkts.
3.	**Grozījumi**	Nepieciešamības gadījumā iesniegt iesniegumu grozījumu veikšanai licencē un grozījumu pamatojumu Valsts vides dienestā (MK noteikumu Nr.696 34.punkts).
4.	**Zemes dzīļu izmantošanas ierobežošana, apturēšana**	Zemes dzīļu izmantošana var tikt ierobežota, apturēta un licence atcelta likumā „Par zemes dzīlēm” 16.pantā noteiktajos gadījumos un noteiktajā kārtībā.
5.	**VVD informēšana**	Informēt Valsts vides dienestu elektroniski (e-pasts: pasts@vvd.gov.lv): a) pirms (vēlams 5 darba dienas) ģeoekoloģiskās izpētes uzsākšanas konkrētā objektā (MK noteikumu Nr.696 25.punkts), b) par nodotajiem pārskatiem valsts SIA „Latvijas Vides, ģeoloģijas un meteoroloģijas centrs”.

II. Ģeoekoloģiskās izpētes nosacījumi

6.	**Normatīvie akti**	a) Likums „Par piesārņojumu”, Atkritumu apsaimniekošanas likums, Ministru kabineta: 2002.gada 22.janvāra noteikumi Nr.34 „Noteikumi par piesārņojošo vielu emisiju ūdenī”, 2002.gada 12.marta noteikumi Nr.118 „Noteikumi par virszemes un pazemes ūdeņu kvalitāti”, 2005.gada 25.oktobra noteikumi Nr.804 „Augsnes un grunts kvalitātes normatīvi”, 2011.gada 27.decembra noteikumi Nr.1032 „Atkritumu poligonu ierīkošanas, atkritumu poligonu un izgāztuvju apsaimniekošanas, slēgšanas un rekultivācijas noteikumi” un 2012.gada 12.jūnija noteikumi Nr.409 „Noteikumi par vides aizsardzības prasībām degvielas uzpildes stacijām, naftas bāzēm un pārvietojamām cisternām”; b) Ņemt vērā, ka licence neatbrīvo no Latvijas Republikas likumu un citu normatīvo aktu prasību ievērošanas, kā arī paredzētajām ekspertīzēm un saskaņošanām.
7.	**Ģeoekoloģiskā izpēte**	a) Noslēgt līgumu ar zemes īpašnieku, tiesisko valdītāju vai pilnvarotu personu par tiesībām veikt ģeoekoloģiskās izpētes darbus (MK noteikumu Nr.696 25.punkts); b) Sastādīt ģeoekoloģiskās izpētes **darbu programmu** un **saskaņot** to **ar Valsts vides dienesta attiecīgo reģionālo vides pārvaldi** (Likums „Par piesārņojumu” 42.panta trešā daļa) un ar darbu pasūtītāju (MK noteikumu Nr.696 25.punkts); c) Veikt teritorijas apsekošanu dabā, izvērtēt Valsts ģeoloģijas fondā pieejamos materiālus un visu pasūtītāja sniegto informāciju par objektu;

7. Ģeoekoloģiskā izpēte	d) Paraugus grunts un pazemes ūdens kvalitātes noteikšanai noņemt tā, lai tie reprezentatīvi raksturotu pētāmās teritorijas piesārņojuma līmeni; e) Degvielas uzpildes stacijās pazemes ūdeņu un grunts paraugus atļauts ņemt akreditētām laboratorijām un akreditētiem komersantiem (MK noteikumu Nr.409 12.punkts); f) Veikt noņemto pazemes ūdeņu un grunts paraugu analīzes akreditētās laboratorijās; g) Noteikt grunts un pazemes ūdeņu piesārņojuma kritērijus, vadoties pēc to dabiski ķīmiskā sastāva un tā tehnogēnajām izmaiņām; h) Noteikt piesārņojuma iespējas, ietekmes virzienus un sekas; i) Izstrādāt rekomendācijas turpmākajai piesārņojuma likvidācijai, kā arī vides aizsardzības un kontroles pasākumiem.
8. Ģeoloģiskā informācija	a) Izpētes rezultātus apkopot ģeoekoloģiskās izpētes darbu pārskatā; b) Pārskatu līdz licences derīguma termiņa beigām, elektroniskā vai papīra formā **nodot Valsts vides dienesta attiecīgajā reģionālajā vides pārvaldē** (Likuma „Par piesārņojumu" 34.panta pirmā daļa un 40.panta pirmā daļa) un valsts SIA „Latvijas Vides, ģeoloģijas un meteoroloģijas centrs" (Ministru kabineta 2012.gada 28.augusta noteikumu Nr.578 „Noteikumi par ģeoloģiskās informācijas sistēmu" 4.punkts).
9. Vides aizsardzība	a) Nepieļaut grunts, zemes dzīļu, virszemes un pazemes ūdeņu piesārņojumu vai citu kaitējumu videi; b) Paredzēt pasākumus, lai tehnikas darbības laikā netiktu pārsniegtas trokšņu emisiju pieļaujamās vērtības; c) Savākt un nodot atkritumu apsaimniekotājiem ģeoekoloģiskās izpētes darbu laikā radušos atkritumus; d) Apturēt vai ierobežot ģeoekoloģiskās izpētes darbus, ja atklājas zinātnei, kultūrai un vides aizsardzībai nozīmīgi ģeoloģiskie veidojumi vai citi objekti, nekavējoties ziņot par atklājumu Valsts vides dienestam.

Vides resursu pārvaldības departamenta direktore L.Dukaļska

ŠIS DOKUMENTS IR PARAKSTĪTS AR DROŠU ELEKTRONISKO PARAKSTU UN SATUR LAIKA ZĪMOGU

Bleidelis 67084219
nauris.bleidelis@vvd.gov.lv

LATVIJAS NACIONĀLAIS AKREDITĀCIJAS BIROJS

Eiropas Akreditācijas kooperācijas Daudzpusējā atzīšanas līguma (EA MLA) dalībnieks testēšanas un kalibrēšanas laboratoriju, produktu, personu un pārvaldības sistēmu sertificēšanas institūciju, inspicēšanas un verificēšanas institūciju akreditācijas jomās

AKREDITĀCIJAS APLIECĪBA

Valsts aģentūra
„Latvijas Nacionālais akreditācijas birojs"
ar šo apliecina, ka

AS "VentEko" laboratorija

Juridiskā adrese: Dārzu iela 2, Ventspils, LV-3601

Atrašanās vieta: Rīgas iela 22, Piņķi, Babītes pagasts, Babītes novads, LV-2107

ir kompetenta veikt testēšanu atbilstoši
standartam LVS EN ISO/IEC 17025:2017 un Ministru kabineta
noteikumiem reglamentētajā sfērā:

pazemes ūdens un grunts paraugu ņemšana

Akreditācijas apliecība derīga līdz 2020. gada 21. decembrim.

Akreditētā darbības reglamentētā sfēra pielikumā uz 1 lapas, kas ir šīs akreditācijas apliecības neatņemama sastāvdaļa.

LATAK reģistrācijas Nr. **LATAK-T-447-06-2011**

Rīga, 2020. gada 4. februāris

G. Jaunbērziņa - Beitika
Valsts aģentūras "Latvijas Nacionālais akreditācijas birojs" direktore

D. Tauriņa
Akreditācijas komisijas priekšsēdētāja

LATVIJAS NACIONĀLAIS AKREDITĀCIJAS BIROJS

Reģistrācijas Nr. LATAK-T-447-06-2011

Akreditācijas lēmuma datums: 2020.02.04.

Akreditācijas periods: 2015.12.22.-2020.12.21.

Akreditācijas standarts: LVS EN ISO/IEC 17025:2017

Akreditētā institūcija: AS "VentEko" laboratorija

Juridiskā adrese: Dārzu iela 2, Ventspils, LV-3601
Atrašanās vietas adrese: Rīgas iela 22, Piņķi, Babītes pagasts, Babītes novads, LV-2107

Akreditācijas reglamentētā sfēra: pazemes ūdens un grunts paraugu ņemšana

Objekts	Nosakāmie rādītāji	Inform. avots	Normatīvi-tehniskās dokumentācijas Nr	Metode	Normatīvi-tehniskās dokumentācijas nosaukums	Regl
1	2	3	4	5	6	7
					Ministru kabineta 2011.gada 27.decembra noteikumi Nr.1032 „Atkritumu poligonu ierīkošanas, atkritumu poligonu un izgāztuvju apsaimniekošanas, slēgšanas un rekultivācijas noteikumi"	1
					Ministru kabineta 2012.gada 12.jūnija noteikumi Nr.409 „Noteikumi par vides aizsardzības prasībām degvielas uzpildes stacijām, naftas bāzēm un pārvietojamajām cisternām"	2
Pazemes ūdens	Pazemes ūdens paraugu ņemšana		LVS ISO 5667-11:2011	1	Ūdens kvalitāte. Paraugu ņemšana. 11.daļa: Norādījumi pazemes ūdens paraugu ņemšanai	1, 2
Grunts	Paraugu ņemšana		ISO 18400-203-2018	2	Grunts kvalitāte. Paraugu ņemšana. 203.daļa: Potenciāli piesārņotu vietu izpēte. (*Soil quality Sampling Part 203: Investigation of potentially contaminated sites).*	2

2. Pielikums
Darbu programmas kopija

Valsts vides dienests

VENTSPILS REĢIONĀLĀ VIDES PĀRVALDE
Dārzu iela 2, Ventspils, LV-3601, tālr. 63625332, e-pasts ventspils@vvd.gov.lv, www.vvd.gov.lv

Ventspils

09.10.2020Nr.2.4/2186/VE/2020
Uz Nr.

AS "VentEko"
info@venteko.com

Par Darbu programmas saskaņošanu

Valsts vides dienesta Ventspils reģionālās vides pārvalde (turpmāk – Pārvalde) 07.10.2020. saņēma *Darbu programmu* grunts un gruntsūdens pirmssanācijas piesārņojuma detalizētai izpētei *VNT* (SIA "'Ventspils nafta" termināls") maģistrālo cauruļvadu trases (A un B rajonu) un bijušās NAI „ŪDEKA" (notekūdens attīrīšanas iekārtu) teritorijās Dzintaru ielā 52C, 52A, 68, 66A un 66B, Ventspilī

Pārvalde izskatīja iesniegto *Darbu programmu* un nolemj to saskaņot.

Direktora vietniece, Kontroles daļas vadītāja Anna Adamsone

ŠIS DOKUMENTS IR ELEKTRONISKI PARAKSTĪTS AR DROŠU ELEKTRONISKO PARAKSTU UN SATUR LAIKA ZĪMOGU

Anna Adamsone 63625332
anna.adamsone@vvd.gov.lv

DARBU PROGRAMMA

grunts un gruntsūdens pirmssanācijas piesārņojuma detalizētai izpētei zemes gabalos ar kadastra Nr. 27000290133 (Dzintaru iela 68), 27000290007 (Dzintaru iela 52C), 27000290015 (Dzintaru iela 52A), 27000290143 (Dzintaru iela 66A) un 27000290144 (Dzintaru iela 66B),

Ventspilī

2020

SATURS

1. IEVADS

Darbu programma sagatavota, balstoties uz apkopoto informāciju par teritorijas esošo vides stāvokli un apsekojuma rezultātiem, kā arī ievērojot Latvijā spēkā esošo saistošo likumos un normatīvajos aktos definētās prasības.

Darbu mērķis ir ar atbilstošām metodēm precizēt ar naftas produktiem (*NP*) piesārņotās grunts un gruntsūdens izplatības areālus, to ietvaros esošā piesārņojuma raksturu, izplatību un intensitāti zemes gabalos *VNT* (SIA „”Ventspils nafta” termināls”) maģistrālo cauruļvadu trases (*MCT - A un B rajonu*) un bijušās NAI „ŪDEKA” (notekūdens attīrīšanas iekārtu) teritorijās, Dzintaru ielā 52C, 52A, 68, 66A un 66B, Ventspilī 2020. gadā.

Darbu procesā tiks definētas vismaz 2 - 3 iespējamās piesārņojuma attīrīšanas alternatīvas detālās izpētes teritorijā, kurām jāietver sevī ilgtspējīgas piesārņojuma attīrīšanas metodes vai to kombinācijas. Plānots salīdzināt katras metodes izmantošanas priekšrocības vai trūkumus konkrētajā teritorijā.

Visi darbi objektā tiks veikti, ievērojot teritorijas darba kārtības noteikumus, darba vides risku novērtējumus, vispārējo ugunsdrošības instrukciju un darbu atļauju procedūru.

Darbu programma tiks iesniegta Valsts vides dienesta Ventspils reģionālajā vides pārvaldē (*VVD Ventspils RVP*) izskatīšanai un saskaņošanai.

Pēc pirmssanācijas detālās izpētes *Darbu programmas* realizācijas, saskaņā ar likuma „*Par piesārņojumu*” 44. panta ceturto daļu, izpētes veicējs sagatavos un iesniegs *VVD Ventspils RVP* pārskatu par veiktajiem darbiem objektā un sasniegtajiem rezultātiem.

2. OBJEKTA RAKSUROJUMS

VNT MCT - A un B rajonu daļa un bijušās NAI „ ŪDEKA” notekūdens attīrīšanas iekārtu teritorija, kur tiks veikti izpētes darbi, izvietota Ventspils ziemeļu daļā - pilsētas rūpnieciskajā zonā (1. attēls), tikai no 30 m līdz dažu 100 m attālumā no Baltijas jūras krasta un no Ventspils ostas ziemeļu mola [17-19].

Zemes kadastra Nr. 27000290133 (Dzintaru iela 68), 27000290007 (Dzintaru iela 52C), 27000290015 (Dzintaru iela 52A), 27000290143 (Dzintaru iela 66A) un 27000290144 (Dzintaru iela 66B).

Izpētes objekta izvietojums

1. ATTĒLS

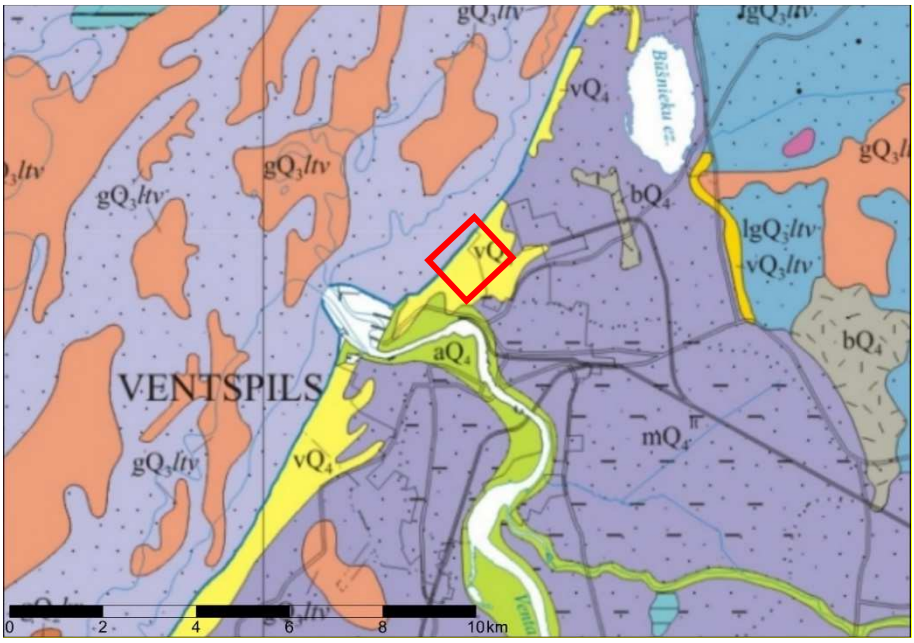
Izpētes teritorijā ir iekļauta aptuveni 21 ha plaša teritorija, kur ietilpst *VNT MCT* vēsturiski sauktie *A un B rajoni* (faktiski visa zona kas stiepjas gar bijušo NAI “ŪDEKA” teritoriju bijušo teritorijas robežu), daļa no bijušo NAI “ŪDEKA” teritorijas (izņemot piekrastes zonu, kur šobrīd tiek realizēti izpētes darbi), kā arī esošo NAI teritorijas daļa. Aptuvenā izpētes zona skatāma pievienotajā attēlā.

Teritorijas izmantošanas veids atbilstoši teritorijas plānojumam - Ostas termināļu teritorijas, OT, (Teritorijas plānojuma zona Nr. 14).

Fizioģeogrāfiski darbu objekts atrodas Piejūras zemienē Ventavas līdzenumā. Zemes virsmas reljefs pamatā līdzens, tā absolūtās atzīmes svārstās robežās no ~ 4 līdz 10 m virs jūras līmeņa (v.j.l.). Visā izpētes teritorijā reljefs izmainīts cilvēka darbības rezultātā – izlīdzināts.

Ģeoloģiskā griezuma augšējo daļu (līdz ~ 1.0 - 1.5 m) galvenokārt veido mūsdienu tehnogēnie nogulumi – pārrakta grunts (pamatā smilts smalka un vidēji rupja, ar oļiem), kas atsedzas zemes virspusē. Dziļāk (līdz izpētes laikā izurbtajam dziļumam – 6...9 m no zemes virsmas) ģeoloģiskajā griezumā ieguļ holocēna vecuma Litorīnas jūras nogulumi smalka līdz rupja smilts vietām ar oļiem. Daļā teritorijas ap 3 – 4 m dziļumu no zemes virsmas ieguļ līdz 0.5 m biezs labi šķirotas grants – oļu slānis [17-19].

Izpētes objekta ģeoloģiskie apstākļi



2. ATTĒLS

Šādam nogulumu sastāvam ir raksturīgi labas un ļoti labas filtrācijas īpašības, kas nozīmē, ka NP piesārņojuma brīvā fāze var netraucēti pārvietoties salīdzinoši lielos attālumos, ko ietekmē grunts masīva hidrauliskā gradienta izraisītās spiedienu atšķirības. Īpaši labvēlīgs piesārņojuma migrācijai ir 5 – 6 m v.j.l. dziļumā konstatētais grants – oļu slānis, kura biezums nav lielāks par dažiem desmitiem cm, tomēr tam ir raksturīga ļoti liela filtrācija, kas nozīmē, ka piesārņojuma kustība ir iespējama lielā attālumā arī virzienā pret valdošo gruntsūdens plūsmas virzienu, atsevišķos īslaicīgos periodos. No agrāk veikto pētījumu datiem zināms, ka šajā teritorijā esošo nogulumu (izņemot grants – oļu slāni) filtrācijas koeficients *k* svārstās ap 23.5 m/dnn, bet grants - oļu slānim filtrācijas koeficients *k* var sasniegt 100...1000 m/dnn [17-19].

Gruntsūdens piesaistīts Litorīnas jūras nogulumu slānim, ko pamatā veido smalka un vidēji rupja smilts. Gruntsūdens plūsma pamatā vērsta jūras virzienā, tas ieguļ 4,0 – 4,5 m dziļumā no zemes virsmas, bet piekrastes zonā gruntsūdens fiksējams tikai 1,7 – 2,7 metru dziļumā [17-19].

Gruntsūdens plūsmai (reizē arī iespējamā piesārņojuma migrācijas virzienam) lokālā mērogā ir samērā sarežģīts raksturs. Savukārt visai viennozīmīgi var apgalvot, ka gruntsūdens reģionālā plūsma izpētes objektā ir vērsta uz ziemeļrietumiem - tas ir, Baltijas jūras virzienā [17-19].

Dominējošais teritorijas piesārņojuma veids - dažāda veida naftas produktu (*NP*) grunts un gruntsūdens piesārņojums. Lielākoties benzīna, petrolejas un biodegradētas dīzeļdegvielas frakcijas.

Deviņdesmito gadu sākumā bijušo NAI “ŪDEKA” (agrāk SIA “Filtrs”) ekspluatācijas laikā sūkņu telpā un attīrīto notekūdeņu uzkrāšanas rezervuārā tika konstatēts naftas produktu piesārņojums, kurš nevarēja būt saistīts ar šajā teritorijā esošo iekārtu darbību. Par neapšaubāmu NP piesārņojumu liecināja ne tikai šī produkta parādīšanās minētajās vietās, bet arī tā klātbūtne un intensīva smaka vairākās citās pazemes komunikācijās [19].

Pirmos pētījumus 1991. - 1992. gadā uzsāka Latvijas ģeoloģijas pārvalde. 1993. un 1994. gadā šos pētījumus turpināja firma SIA "Balt-Ost-Geo" bet 1995. gadā šī pati firma veica piesārņoto pazemes ūdeņu atsūknēšanu *VNT MCT A un B rajonā* un SIA "Filtrs" teritorijā [19].

Praktiski no tā brīža līdz pat šīs *Darbu programmas* sastādīšanas brīdim atsevišķās detālās izpētes teritorijas daļās ir veikti atsevišķi izpētes, monitoringa un sanācijas pasākumi.

3. DARBU SASTĀVS UN APJOMS

Ņemot vērā informāciju par teritorijas ģeoekoloģisko stāvokli, ģeoloģiski – hidroģeoloģisko uzbūvi, spēkā esošo normatīvo dokumentu prasības, plānoto darbību teritorijā, plānots realizēt grunts un gruntsūdens pirmssanācijas piesārņojuma detālo izpēti.

Kopsummā izpētes ietvaros paredzēts veikt sekojošo:

- *Darbu programmas* sagatavošanu un iesniegšanu *VVD Ventspils RVP*;
- teritorijas apsekošanu un zondēšanas punktu/urbumu vietu saskaņošanu;
- mehānisko urbšanu un izpētes aku ierīkošanu;
- mehānisko zondēšanu ar *LIF* (Lāzera inducētā fluorescence);
- grunts, gruntsūdens un *NP* paraugu noņemšanu;
- grunts, gruntsūdens un *NP* paraugu testēšanu laboratorijas apstākļos;
- citu saistīto un nepieciešamo mērījumu veikšanu;
- rekomendāciju sagatavošanu turpmākiem vides aizsardzības pasākumiem;
- *Izpētes pārskata* par izpildītajiem darbiem un iegūtajiem rezultātiem sagatavošanu.

Pirms darbu uzsākšanas, paredzēts veikt izpētes teritorijas detalizētu apsekošanu no vides stāvokļa izpētes un kontroles pozīcijām. Tās gaitā, balstoties uz aktuālu topogrāfisko plānu, tiks precizētas projektēto zondēšanas punktu, izpētes urbumu un aku ierīkošanas vietas.

Grunts piesārņojuma ar *NP* novērtējumam paredzēts ierīkot 140 *LIF* (Lāzera inducētā fluorescence) zondēšanas punktus, izveidojot regulāru izvietojumu savstarpējā attālumā vienam no otra. Tādā veidā tiks iegūti dati par gruntī esošo *NP* piesārņojuma izplatības robežām un intensitāti.

Gruntsūdens kvalitātes novērtēšanai paredzēts ierīkot 30 gruntsūdens novērošanas akas, no kuramā pēc gruntsūdens līmeņa un hidroķīmisko parametru mērījumiem ar mobilu lauka laboratoriju, tiks noņemti paraugi, lai laboratorijas apstākļos noteiktu *NP* un *BTEX* (monoaromātiskie ogļūdeņraži) saturu. Vismaz daļā no izpētes akām, kurās veicot lauku mērījumus tiks konstatēts naftas produktu peldošais slānis (*NPPS*), tiks veikta *NP* sastāva un vecuma analīze. Gruntsūdens paraugu noņemšanai un mērījumiem plānots izmantot arī daļu no jau teritorijā esošajām monitoringa akām. Kopumā paredzēts noņemt līdz 100 gruntsūdens paraugus.

Orientējošs projektējamo zondēšanas punktu, izpētes urbumu un gruntsūdens monitoringa aku ierīkošanas vietu plāns skatāms *Darbu programmas* 3. attēlā (kartē ir atliktas vairāk vietas, no kurām izvēlēsies 140 darba procesā). Tomēr, izpētes realizācijas gaitā, to vietas var tikt mainītas, atkarībā no to izvietošanas iespējām un piesārņojuma izplatības.

Urbumu/zondēšanas punktu ierīkošanas vietas tika izvēlētas, ņemot vērā objekta izvietojuma īpatnības un plānoto darbu specifiku. Paredzams, ka šāds zondēšanas un urbumu punktu apjoms, dos iespēju precizēt iecirkņa ģeoloģiskos apstākļus, iegūt konkrētu priekšstatu par teritorijas grunts un gruntsūdens kvalitāti, kā arī, samērā precīzi aprēķināt piesārņotās grunts un piesārņojošo *NP* apjomu.

Projektējamo zondēšanas punktu un urbumu/gruntsūdens izpētes aku izvietojuma shēma

3. ATTĒLS

Pēc zondēšanas punktu un urbumu ierīkošanas tiks veikta to piesaiste plānā (noteiktas koordinātes) un pienivelēts absolūtais augstums, izmantojot punktu (reperi) objekta teritorijā ar zināmu augstuma atzīmi.

Grunts paraugus, tās kvalitātes noteikšanai, paredzēts noņemt urbšanas darbu laikā. Paraugi tiks noņemti dažādos dziļuma intervālos.

Paraugus paredzēts noņemts speciālos, hermētiski noslēdzamos plastmasas maisiņos. Izmantojot firmas "Ion science" mērītāju PID GAS DETECTOR, tiks veikti mērījumi visiem noņemtajiem grunts paraugiem. Šis mēraparāts darbojas kā fotojonizācijas detektors un nosaka gan gaistošo ogļūdeņražu kopējo koncentrāciju, gan dažādu atsevišķu gaistošo piesārņotāju saturu grunts porās.

Pēc šiem mērījumiem grunts paraugi tiks atlasīti un nodoti testēšanai akreditētā laboratorijā piesārņojošo vielu satura noteikšanai. Papildus piesārņojuma noteikšanai, atsevišķos grunts paraugos tiks noteikts granulometriskais sastāvs un filtrācijas īpašības, lai vēlāk būtu iespējams noteikt izpētes teritorijas litoloģiski atšķirīgos slāņus.

Balstoties uz zondēšanas, urbšanas, paraugošanas un *in-situ* hidroķīmisko mērījumu gaitā iegūtajiem datiem un laboratorijas analīžu rezultātiem, tiks veikta grunts un gruntsūdens piesārņojuma ar *NP* novērtēšana. Visi dati un aprēķinu gaitā iegūtie rezultāti tiks apkopoti *Izpētes pārskatā*.

Papildus *Izpētes pārskatā* tiks iekļauta informācija par teritorijas attīrīšanas (sanācijas) alternatīvām un piemērotākās alternatīvas izvēli.

Darbu procesā tiks nodefinētas vismaz 2 - 3 iespējamās piesārņojuma attīrīšanas alternatīvas darbu teritorijai, kurām jāietver ilgtspējīgas piesārņojuma attīrīšanas metodes vai to kombinācijas. Tiks raksturots katras metodes izmantošanas priekšrocības vai trūkumi konkrētajā teritorijā.

Atbilstoši iegūtajiem izpētes rezultātiem, tiks veikts piesārņojuma izvērtējums, potenciāli efektīvāko piesārņotās vides atveseļošanas (sanācijas) metožu izvērtējums, kā arī ieteikti efektīvākie attīrīšanas scenāriji.

4. DARBU METODIKA

Visi ar detālās izpētes pasākumu izpildi saistītie darbi tiks veikti atbilstoši spēkā esošajiem metodiskajiem norādījumiem, kā arī ievērojot visas šajā laika posmā spēkā esošo normatīvo aktu prasības:

- Ministru kabineta noteikumi Nr. 118 „Noteikumi par virszemes un pazemes ūdeņu kvalitāti" (ar grozījumiem). Stājušies spēkā ar 2002. gada 4. aprīli.
- Ministru kabineta noteikumi Nr. 158 „Noteikumi par prasībām attiecībā uz vides monitoringu un tā veikšanas kārtību, piesārņojošo vielu reģistra izveidi un informācijas pieejamību sabiedrībai. Stājušies spēkā ar 2009. gada 17. februāri.
- Ministru kabineta noteikumi Nr. 409 "Noteikumi par vides aizsardzības prasībām degvielas uzpildes stacijām, naftas bāzēm un pārvietojamajām cisternām" (ar grozījumiem). Stājušies spēkā ar 2012. gada 12. jūnijā..
- Ministru kabineta noteikumi Nr. 804 "Noteikumi par augsnes un grunts kvalitātes normatīviem". Stājušies spēkā ar 2005. gada 25. oktobri.
- Latvijas standarts LVS EN ISO 5667 „Ūdens kvalitāte. Paraugu ņemšana".
- Likums „Par piesārņojumu" (ar grozījumiem). Stājies spēkā ar 2001. gada 1. jūliju.
- Pazemes ūdeņu piesārņojuma izpēte. Metodiskie norādījumi. Apstiprināti Vides aizsardzības un reģionālās attīstības ministrijā 1998. gada 28. martā.
- API Publication 1628, "A Guide to the Assessment and Remediation of Underground Petroleum Releases".
- API American Petroleum institute http://www.api.org

Izpētes veikšanai Valsts vides dienestā (VVD) saņemta Zemes dzīļu izmantošanas licence Nr. CS20ZD0256, kas derīga līdz 2021. gada 26. septembrim. Licences kopija skatāma *Darbu programmas* 1. Pielikumā.

4.1. LIF zondēšana

Zondēšanas darbu realizācijai tika izmantots firmas *PAGANI* statiskās zondēšanas agregāts, kas aprīkots ar UVOST® optiskās fluorescences reģistratora aparatūru.

Iekārta: Ultravioletās fluorescences optiskais reģistrators (UVOST®)

Noteikšanas metode: Lāzera inducētā fluorescence (LIF) un Elektrovadītspēja (EC)

Darbības princips: Izmantojot statiskās zondēšanas iekārtu, vai urbšanas iekārtu ar perforācijas funkciju, gruntī tiek ievadīta speciāla zonde. Zonde ir aprīkota ar ultravioletās fluorescences optiskās reģistrēšanas (UVOST®) iekārtu, kas mēra lāzera inducēto fluorescenci (LIF metode) un, pamatojoties uz šiem mērījumiem, nosaka gruntī poli-aromātisko ogļūdeņražu (PAH) daudzumu un to sastāvu.

Statiskās zondēšanas iekārta gruntī vertikāli iespiež zondi, caur kuru notiek nepārtraukta (impulsu veidā) grunts apstarošana ar lāzera staru. Tur, kur ir naftas produktu (NP) piesārņojums (PAH), pēc grunts apstarošanas ar lāzeru tā kādu brīdi luminiscē. UVOST® reģistrē fluorescences intensitāti un spektru. Fluorescences intensitāte rāda, cik liels ir piesārņojums (NP daudzums gruntī), bet spektra analīze – kāds ir šī piesārņojuma sastāvs. Visi dati *on-line* režīmā atainojas vizuāli uz datora monitora un tiek saglabāti tā atmiņā.

Dati iegūti relatīvās vienībās, līdz ar to, pēc nepieciešamības tie tiek kalibrēti ar laboratorijas analīžu rezultātiem, kā rezultātā relatīvās vienības (fluorescences intensitāte (%RE), tiek izteikti absolūtās vienībās – NP daudzums 1 kg grunts (mg/kg)). Iegūtās vērtības tiek izmantotas, lai aprēķinātu gruntī esošā piesārņojuma ar NP apjomus.

Nosakāmās un atpazīstamās vielas: benzīns, dīzeļdegviela, petroleja, reaktīvā (aviācijas) degviela, motoreļļas, smēreļļas, hidrauliskie šķidrumi, jēlnafta, kurināmā degviela, arī akmeņogļu darva, kreozots/pentahlorofenols (koka impregnanti).

Zondēšanas ierīkošanas vietas tiks piesaistītas LAS-2000,5 augstuma sistēmai un atrašanās vietas koordinātes - LKS-92 TM plaknes koordinātu sistēmai.

4.2. Izpētes urbumu un novērošanas aku ierīkošana

Izpētes urbumu un novērošanas aku ierīkošana tiks realizēta izmantojot APAGEO mehāniskās urbšanas agregātu APAFOR ar vītnes urbšanas metodi un/vai serdes urbšanas metodi, nepieciešamības gadījumā pielietojot apvalkcaurules. Urbumu diametrs – 130 mm.

Ierīkoto novērošanas aku filtra kolonnas diametrs – 63 mm. Filtra garums – 2 metri. Filtrs akā tiks ievietots tā, lai atrastos atsegtā gruntsūdens horizonta ūdens virsmas svārstību intervālā, jo tieši šajā līmenī parasti akumulējas naftas produktu peldošais slānis. Filtrs tiks apbērts ar rupjgraudainas smilts materiālu.

Visas aku atveres tiks piesaistītas LAS-2000,5 augstuma sistēmai un atrašanās vietas koordinātes - LKS-92 TM plaknes koordinātu sistēmai.

4.3. Grunts paraugošana un mērījumi

Urbšanas laikā no katra urbuma tiks noņemti grunts paraugi. Paraugošana veikta divos dziļuma intervālos. Grunts paraugi tiks ievietoti speciālos, hermētiski noslēdzamos ķīmiski neitrālos plastmasas maisiņos (0,5 kg) un sagatavoti dažādu mērījumu veikšanai un nogādāšanai akreditētā laboratorijā.

4.4. Mērījumi novērošanas akās

Naftas produktu (NP) peldošā slāņa un gruntsūdens līmeņu mērījumi tiks veikti ar speciālu, sertificētu aparatūru – nesajaucošos šķidrumu saskares virsmas detektoru *INTERFACE PROBE*. Mērījumi tiks veikti desmit dienas pēc aku ierīkošanas.

4.5. Gruntsūdens un naftas produktu paraugošana un mērījumi

Gruntsūdens un NP paraugu noņemšanai izmantos speciālu EIJKELKAMP firmas paraugošanas cilindru, kā arī WHALE paraugošanas sūkni. Pirms gruntsūdens paraugu noņemšanas akas atsūknēs līdz ūdens hidroķīmisko rādītāju - pH, elektrovadītspējas un temperatūras stabilizācijai. Ūdens fizikāli – ķīmiskos parametrus aku atsūknēšanas gaitā kontrolēs, izmantojot specializētu firmas WTW aparatūru (pārnēsājamu lauku hidroķīmisko laboratoriju). Pēc hidroķīmiskās situācijas stabilizēšanās no akām, kurās netiks fiksēts NP peldošais slānis, tiks noņemti gruntsūdens paraugi.

Akās, kurās tiks fiksēts NP peldošais slānis, tiks veikta naftas produkta parauga noņemšana. Gruntsūdens paraugus ievietos speciālās tumša stikla 1 l un/vai 0,004 l pudelēs, bet NP paraugus – 0,5 l plastmasas pudelēs to nogādāšanai laboratorijā.

4.6. Laboratorijas analīzes

Laboratorijas analīzes veiktas akreditētās laboratorijās - SIA „Vides Audits" (LATAK-T-261) un/vai LVĢMA Vides laboratorijā (LATAK-T105).

4.7. Saistītie pasākumi

Veicot izpētes darbus, objektā tiks ievēroti atbilstoši vides aizsardzības pasākumi:

- tiks nodrošināta piesārņoto materiālu un atkritumu (piesārņotā grunts no urbumiem, cimdi, absorbējošie materiāli u.c.), kas radīsies izpētes gaitā, savākšana un nogādāšana utilizācijai;
- darbu izpildes metodika nodrošinās to, ka vidē nenokļūst sekundārais piesārņojums, un netiks piesārņotas jaunas, līdz šim tīras teritorijas.

5. SASNIEDZAMIE DARBU REZULTĀTI

Izpētes darbu gaitā objekta teritorijā tiks:

- izvērtēta grunts un gruntsūdens piesārņojuma pakāpe atbilstoši LR normatīvajām prasībām;
- iegūti precīzi, reprezentatīvi grunts un pazemes ūdens piesārņojuma izplatības dati;
- izvērtēts naftas produktu piesārņojuma migrācijas ceļš;
- noteikts naftas produktu piesārņojuma apjoms un tā izplatība;
- sagatavots kartogrāfiskais materiāls par grunts un gruntsūdens piesārņojuma areālu;
- izstrādāts digitāls piesārņojuma areāla izplatības 3 - dimensiju modelis, attēlojot piesārņojuma areālu ar soli ("grid") ne mazāku par 0.5 m. Piesārņojuma areāls tiks attēlots absolūtajās vienībās (mg/kg un tmldz);
- izstrādātas rekomendācijas turpmākajiem vides aizsardzības pasākumiem, vides kvalitātes kontrolei un piesārņotās teritorijas sanācijai;
- veikts piesārņojuma izvērtējums, potenciāli efektīvāko piesārņotās vides atveseļošanas (sanācijas) metožu izvērtējums, kā arī ieteikti efektīvākie attīrīšanas scenāriji;
- sagatavots un iesniegts *VNT* detalizēts *Izpētes pārskats*.

Visi lauku darbu ietvaros iegūtie dati un materiāli tiks apkopoti *Izpētes pārskatā*, kas tiks iesniegts *VVD Ventspils RVP*.

Izpētes pārskata sagatavošana un rezultātu interpretācija tiks veikta ievērojot zemāk uzskaitītos normatīvos aktus:

- likums "Par piesārņojumu";
- Ministru kabineta (MK) 12.03.2002. noteikumi Nr. 118 „Noteikumi par virszemes un pazemes ūdeņu kvalitāti";
- MK 25.10.2005. noteikumi Nr. 804 „Noteikumi augsnes un grunts kvalitātes normatīviem";
- MK 12.06.2012. noteikumi Nr. 409 „Noteikumi par vides aizsardzības prasībām degvielas uzpildes stacijām, naftas bāzēm un pārvietojamām cisternām";
- MK 06.09.2011. noteikumi Nr. 696 "Zemes dzīļu izmantošanas licenču un bieži sastopamo derīgo izrakteņu ieguves atļauju izsniegšanas kārtība";
- metodiskie norādījumi „Pazemes ūdeņu piesārņojuma izpēte" (Valsts ģeoloģijas dienests, Rīga, 1997).

Izpētes pārskatā būs iekļauta informācija par veikto darbu metodiku, iegūtajiem rezultātiem, veiktajiem aprēķiniem (laboratorijas testu rezultāti, piesārņojuma izplatības kartoshēmas gruntī un gruntsūdenī) un izvērtēti efektīvākie piesārņojuma attīrīšanas scenāriji.

IZMANTOTĀ LITERATŪRA

1. API American Petroleum institute http://www.api.org
2. API Publication 1628, "A Guide to the Assessment and Remediation of Underground Petroleum Releases".
3. Eiropas Parlaments, *EIROPAS PARLAMENTA UN PADOMES DIREKTĪVA 2008/98/EK*, Eiropas Savienības Oficiālais Vēstnesis, 2008.
4. http://www.epa.gov.
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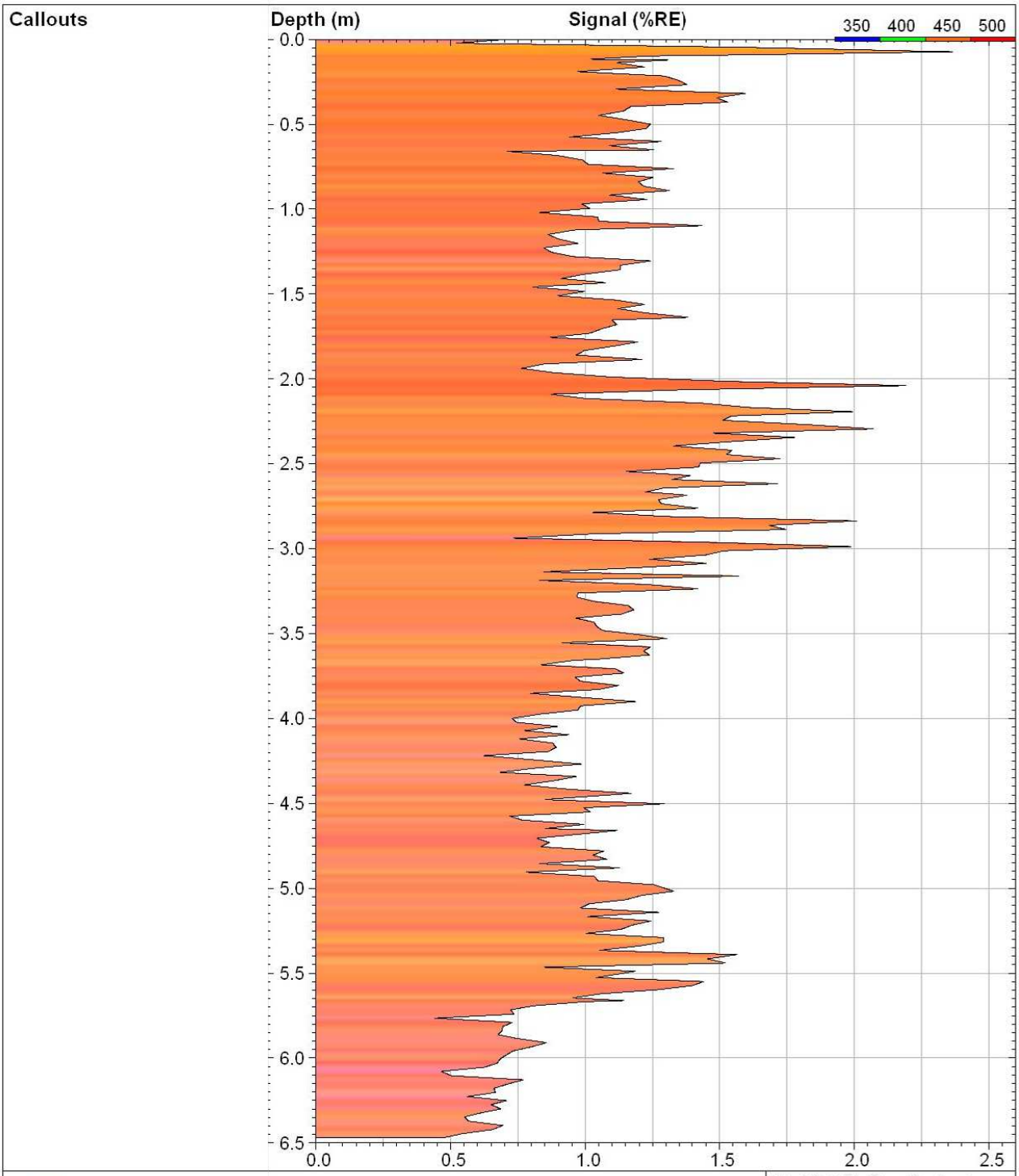
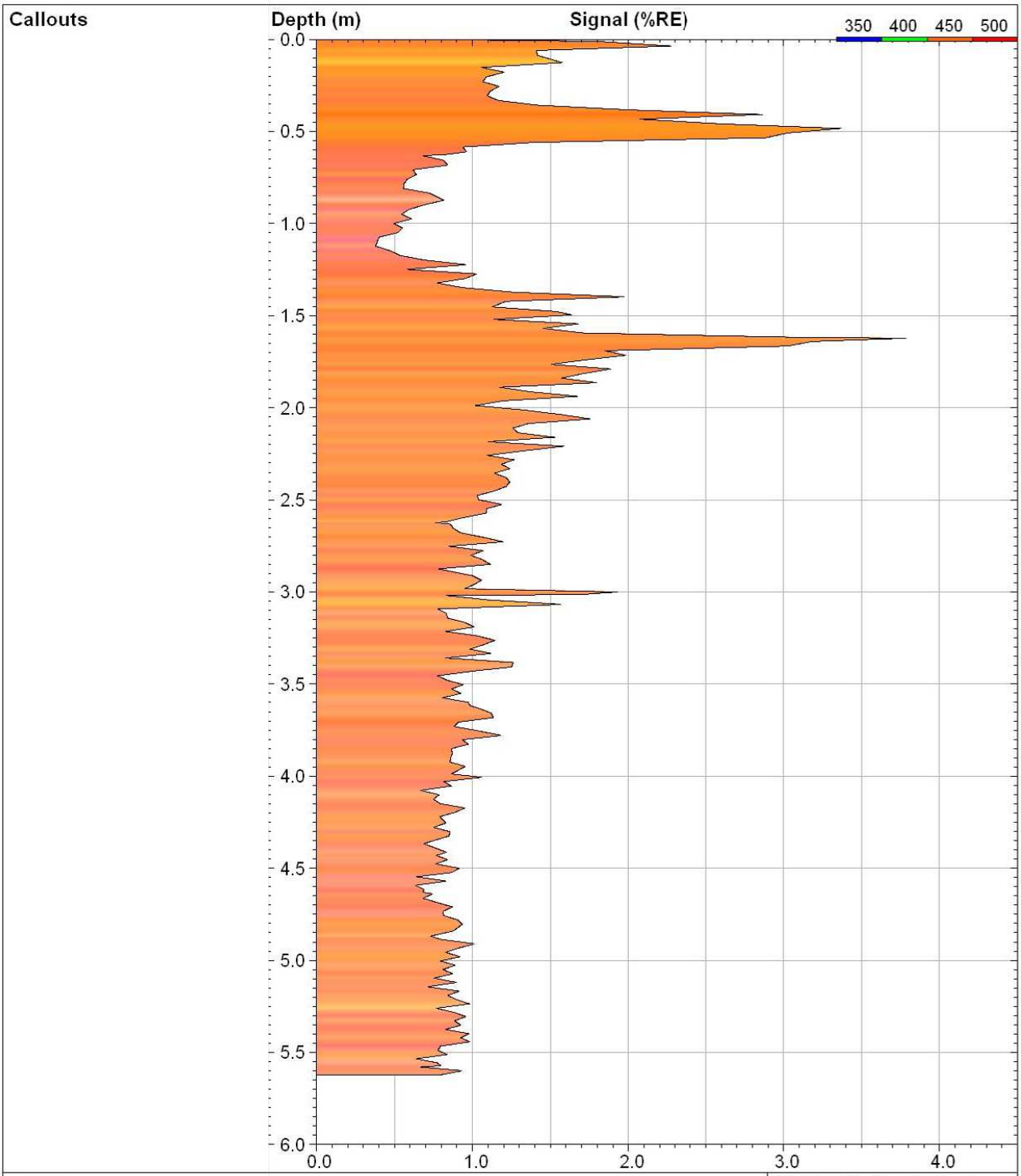
6. Latvijas Republikas Saeima, *Likums par piesārņojumu*, sēj. 51, Latvijas Vēstnesis, 2001.
7. Latvijas republikas Saeima, *Vides aizsardzības likums*, 2006.
8. Latvijas standarts LVS EN ISO 5667 „Ūdens kvalitāte. Paraugu ņemšana"
9. Ministru kabinets, *Noteikumi Nr. 483*, 2001.
10. Ministru kabinets, *Noteikumi Nr. 118*, 2002.
11. Ministru kabinets, *Noteikumi Nr. 804*, 2005.
12. Ministru kabinets, *Noteikumi Nr. 158*, 2009.
13. Ministru kabinets, *Noteikumi Nr. 409*, 2012.
14. Valsts ģeoloģijas dienests. Metodiskie norādījumi "Pazemes ūdeņu piesārņojuma izpēte". 1998. gada 28. martā
15. Valsts zemes dienests, *kadastrs.lv*.
16. Vides aizsardzības un reģionālās attīstības ministrija. Gruntī un ūdenī nonākušā ķīmiskā piesārņojuma daudzuma aprēķināšanas metodika. Rīga, 2000.
17. Dimitrijevs E., Atskaite par gruntsūdens monitoringa aku tīkla rekonstrukciju SIA "Ventspils nafta" termināls" maģistrālo cauruļvadu trases teritorijā Dzintaru ielā 52C, Ventspilī, 2017. gads.
18. Dimitrijevs E., Atskaite par grunts un gruntsūdens piesārņojuma ar naftas produktiem izpēti SIA ""Ventspils nafta" termināls" cauruļvadu koridoram pieguļošajā teritorijā pie dz/c stacijas "Jūras parks", Ventspilī, 2014. gads.
19. Kalpišs K., Atskaite par grunts un gruntsūdens piesārņojuma ar naftas produktiem izpēti bijušās BO SIA "Ūdeka" teritorijā, Dzintaru ielā 68, Ventspilī, 2013. gads.

3. Pielikums
LIF zondēšanas punktu griezumu izdrukas



VentEko Ltd., 22 Rigas Street
Pinki, LV-2107, Latvia
Phone: + 371 67913155
Fax: + 371 67913156
www.VentEko.lv

LIF_001		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.47 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.4 %RE @ 0.07 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-19 14:39 FLEDT**

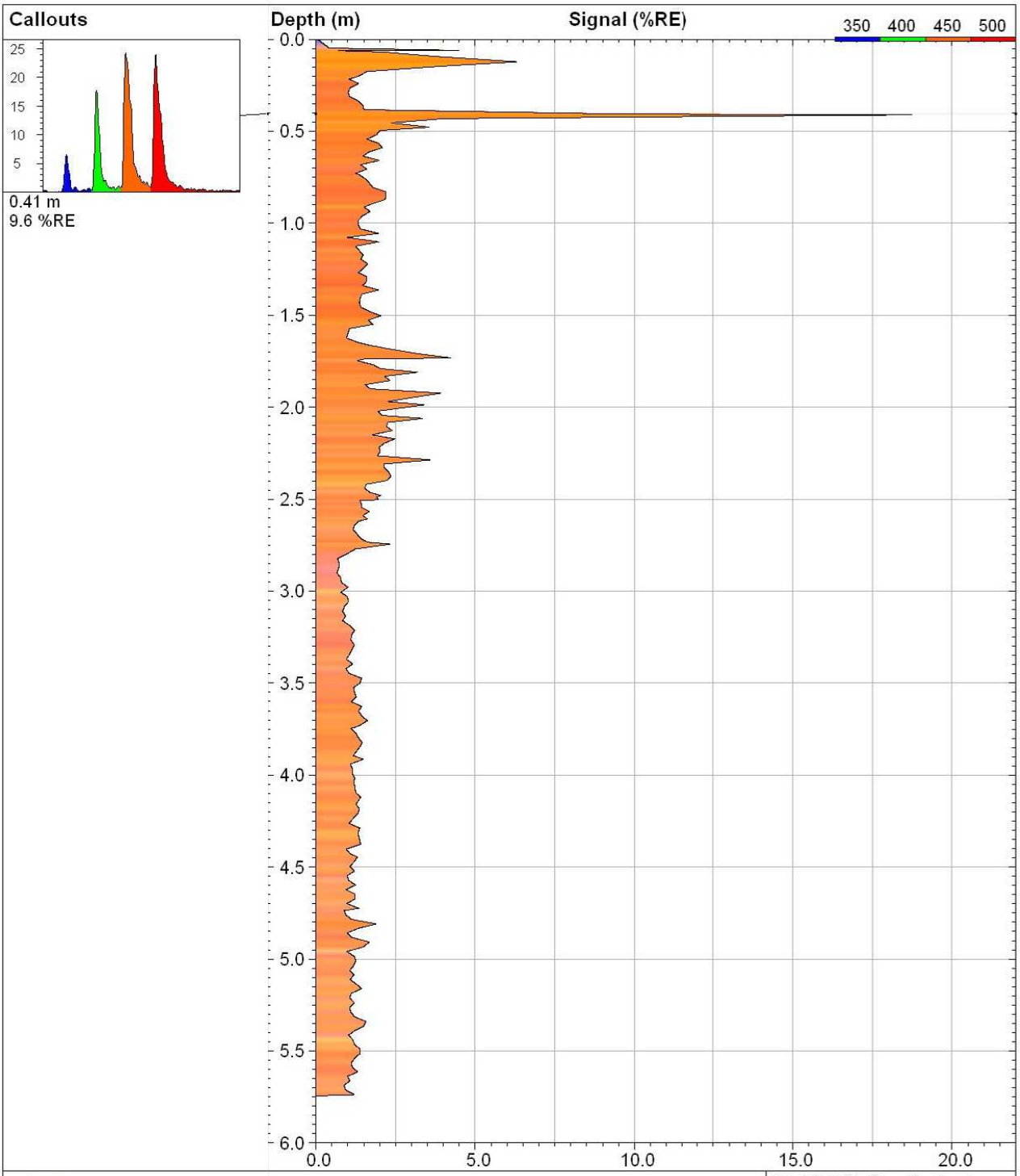


VentEko
INTELLIGENT ENVIRONMENTAL SOLUTIONS
VentEko Ltd., 22 Rigas Street
Pinki, LV-2107, Latvia
Phone: + 371 67913155
Fax: + 371 67913156
www.VentEko.lv

LIF_002

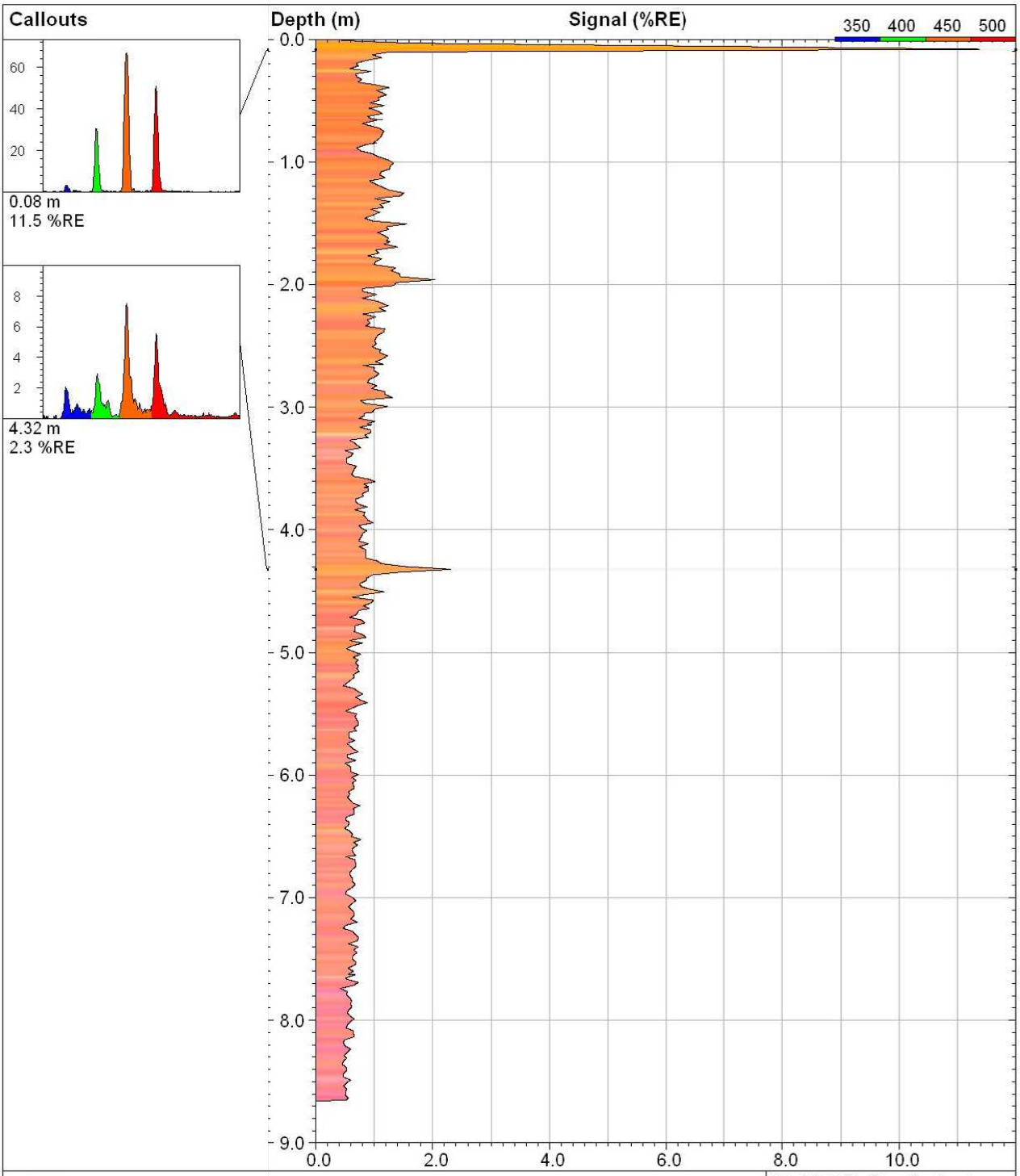
UVOST By Dakota
www.DakotaTechnologies.com

Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.62 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.8 %RE @ 1.62 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-19 15:11 FLEDT**



VentEko Ltd., 22 Rigas Street
Pinki, LV-2107, Latvia
Phone: + 371 67913155
Fax: + 371 67913156
www.VentEko.lv

LIF_003		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.74 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **19.1 %RE @ 0.41 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-19 15:52 FLEDT**



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LIF_004

UVOST By Dakota
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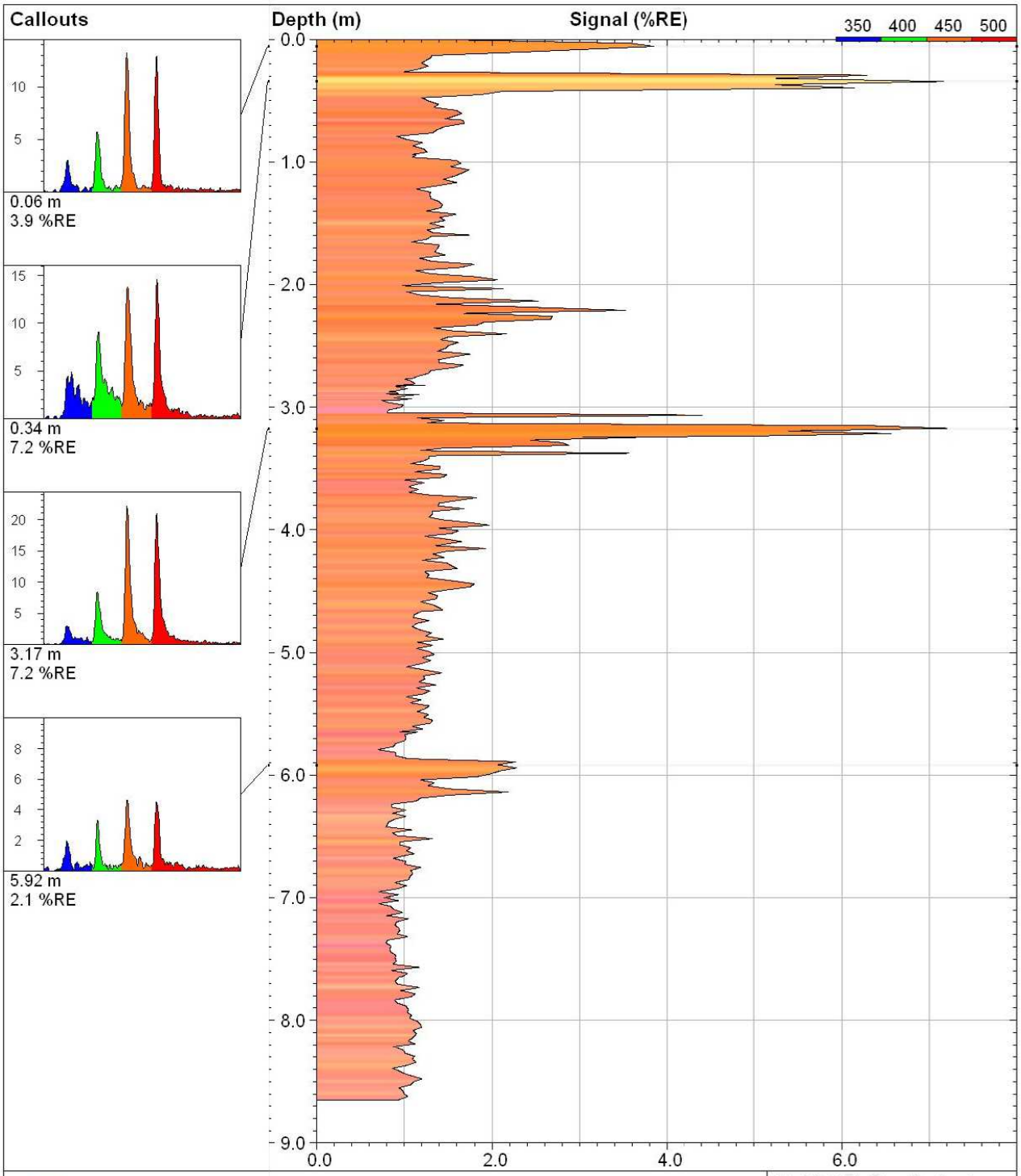
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.65 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **11.5 %RE @ 0.08 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 10:24 FLEDT**



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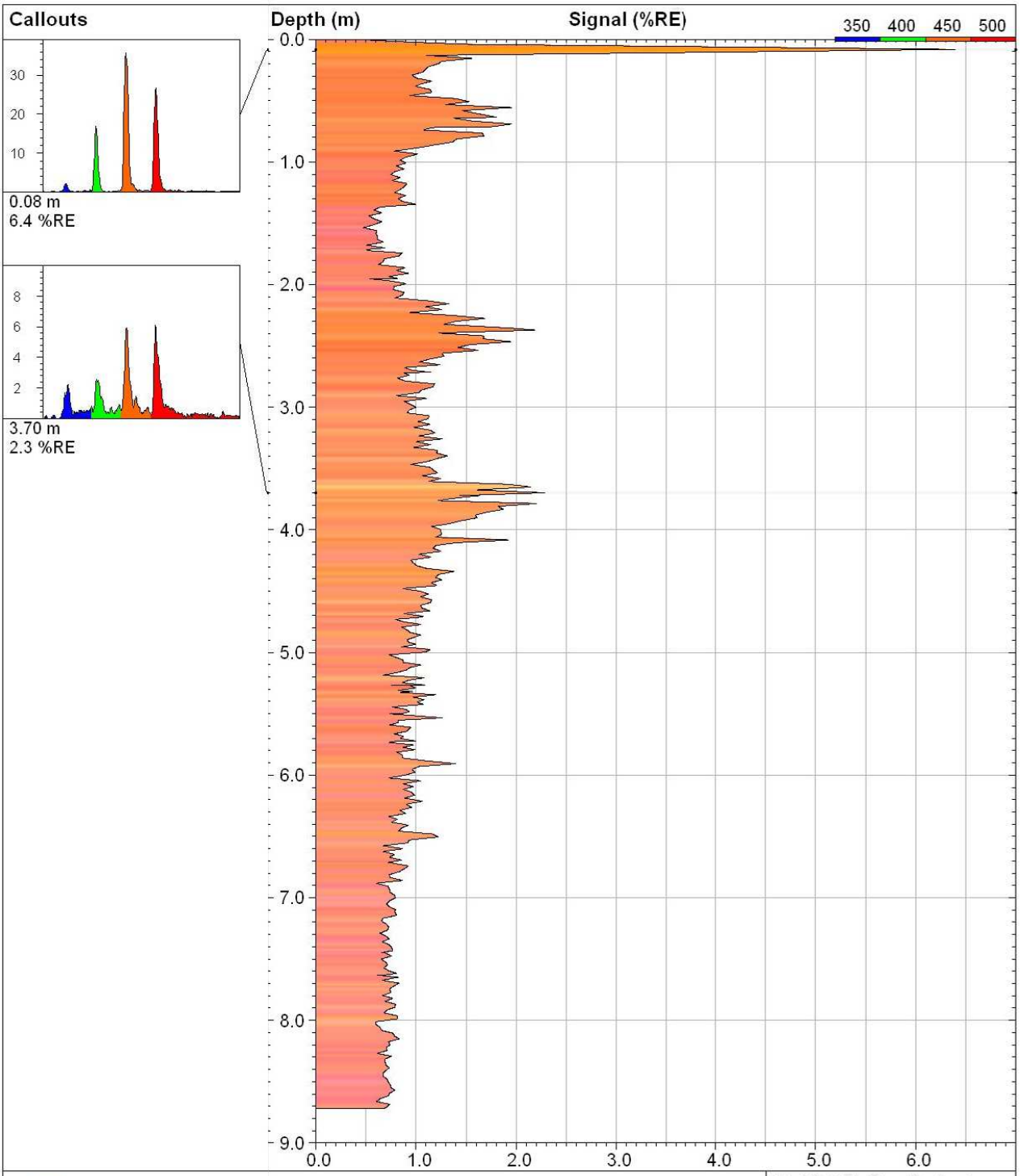
LIF_005		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.65 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **7.2 %RE @ 3.17 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 11:18 FLEDT**



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LIF_006

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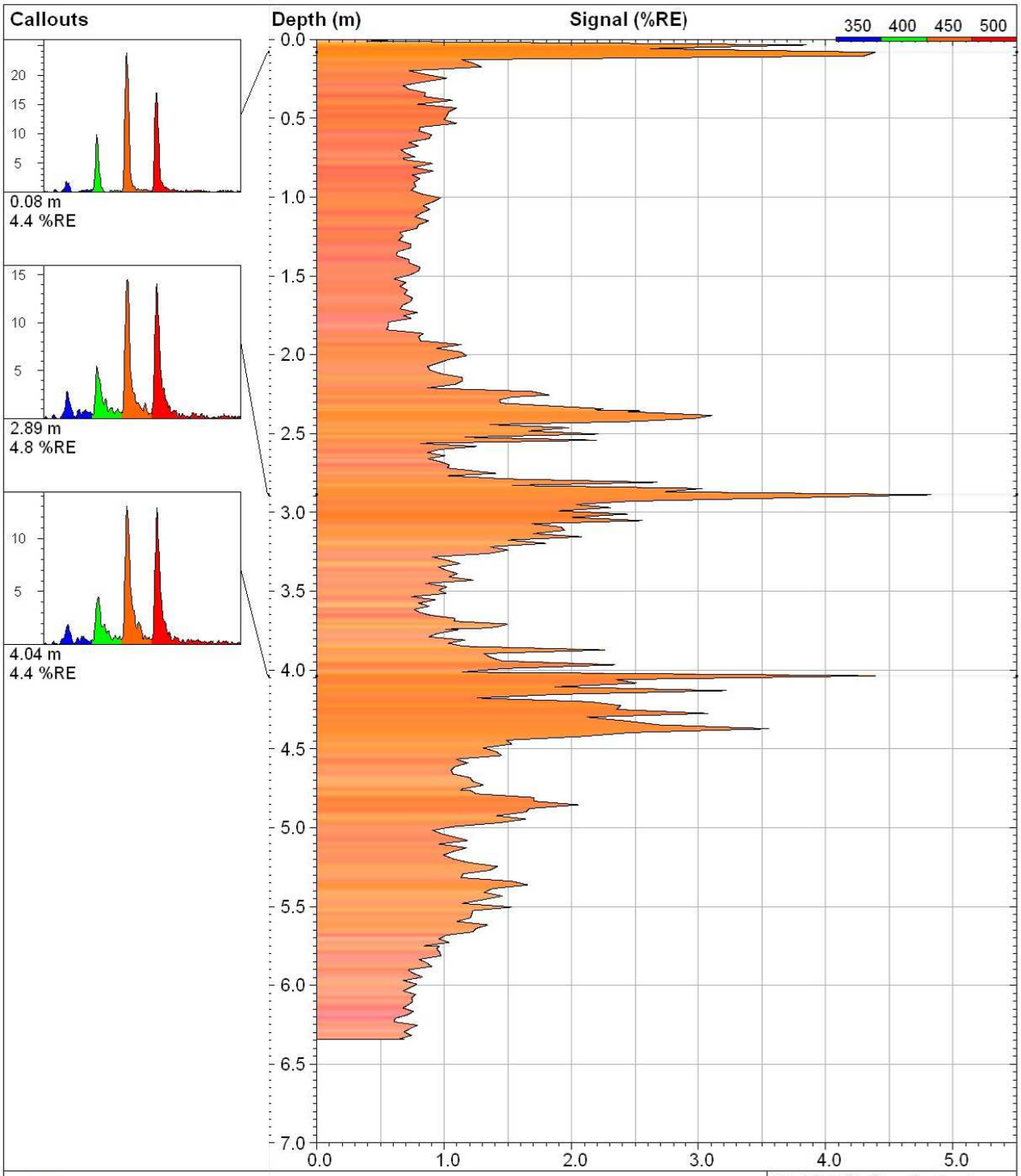
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.72 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.4 %RE @ 0.08 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 11:55 FLEDT**



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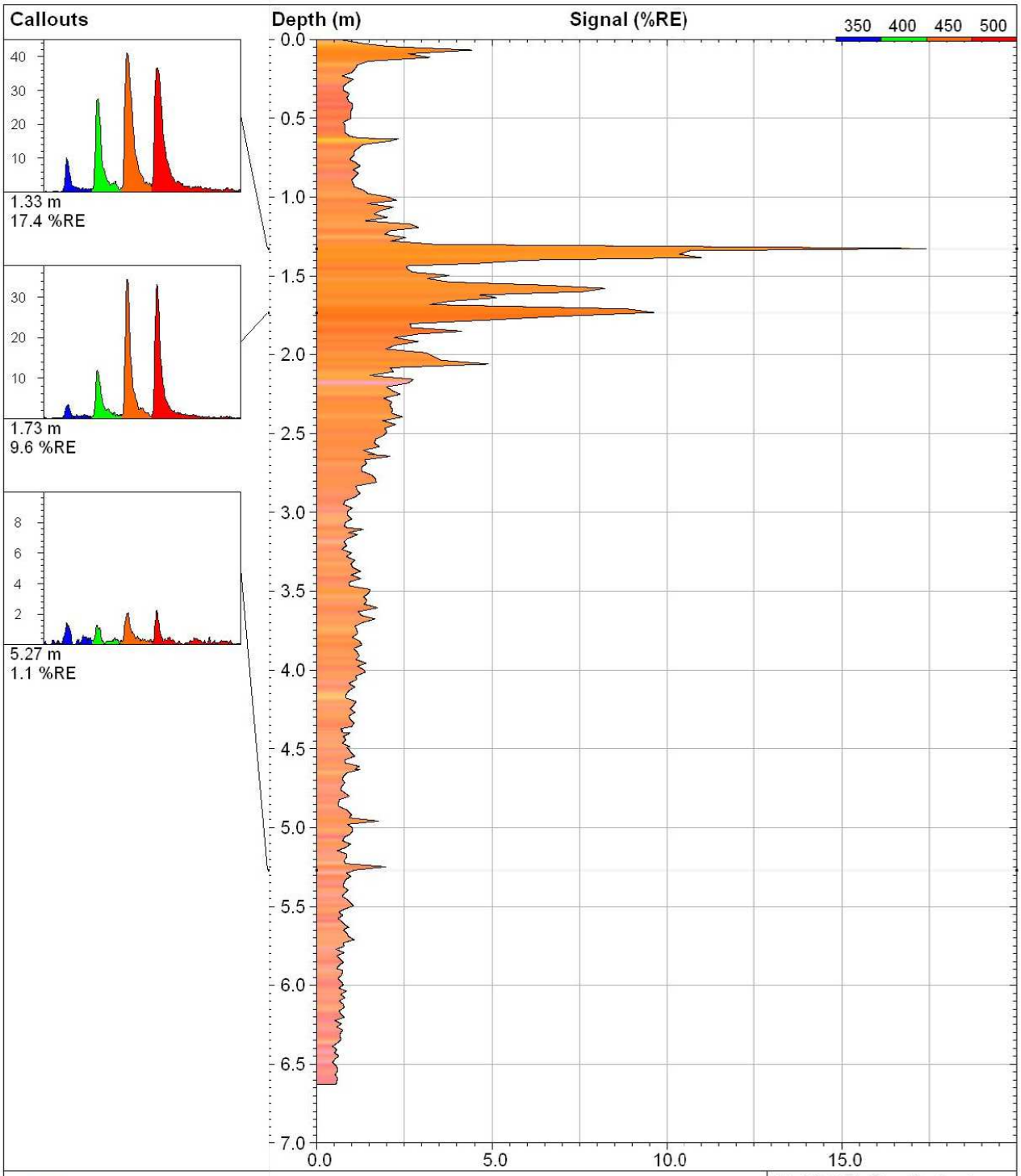
LIF_007		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.34 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **4.8 %RE @ 2.89 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 13:25 FLEDT**



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LIF_008

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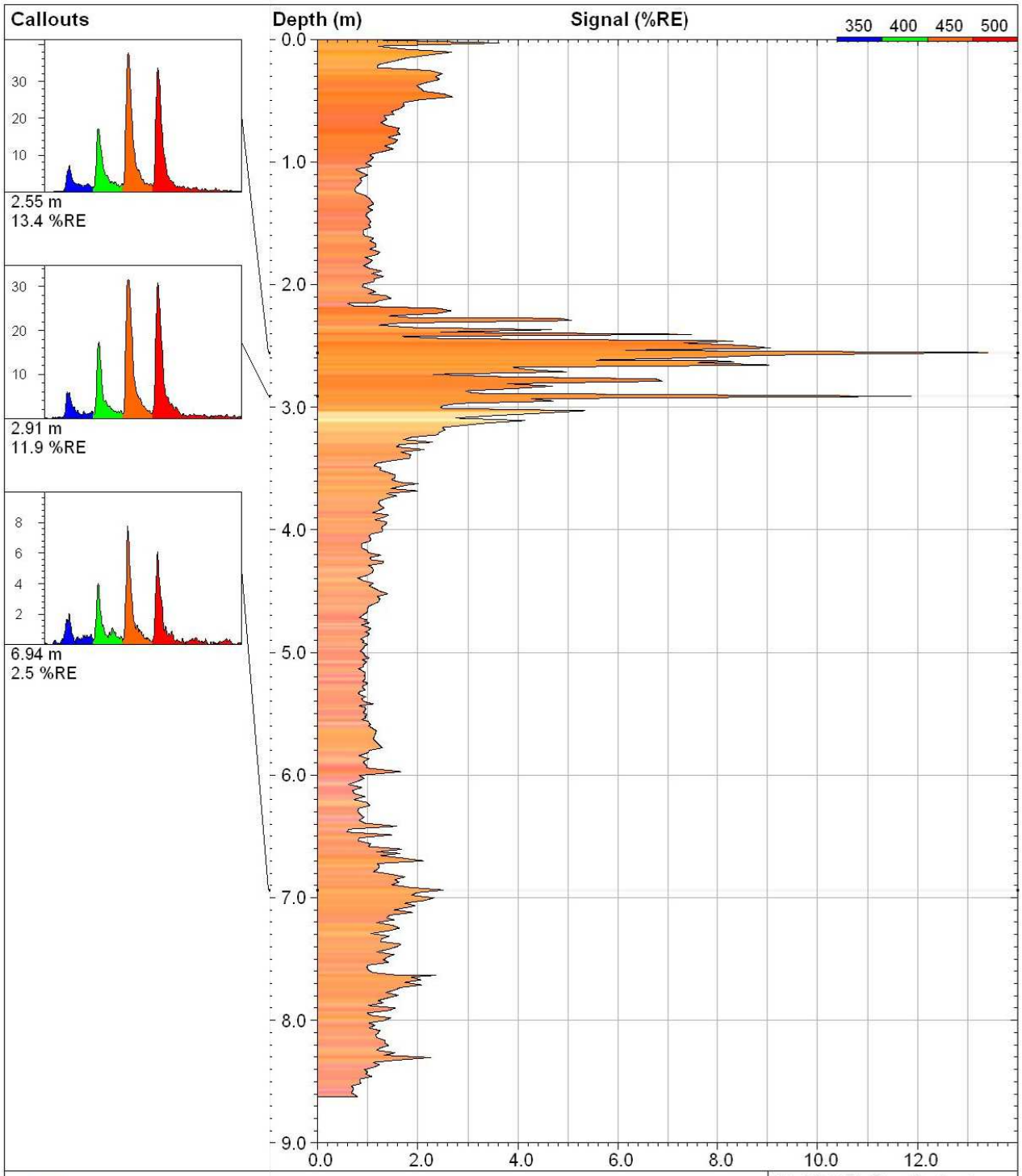
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.63 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **17.4 %RE @ 1.33 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 14:04 FLEDT**



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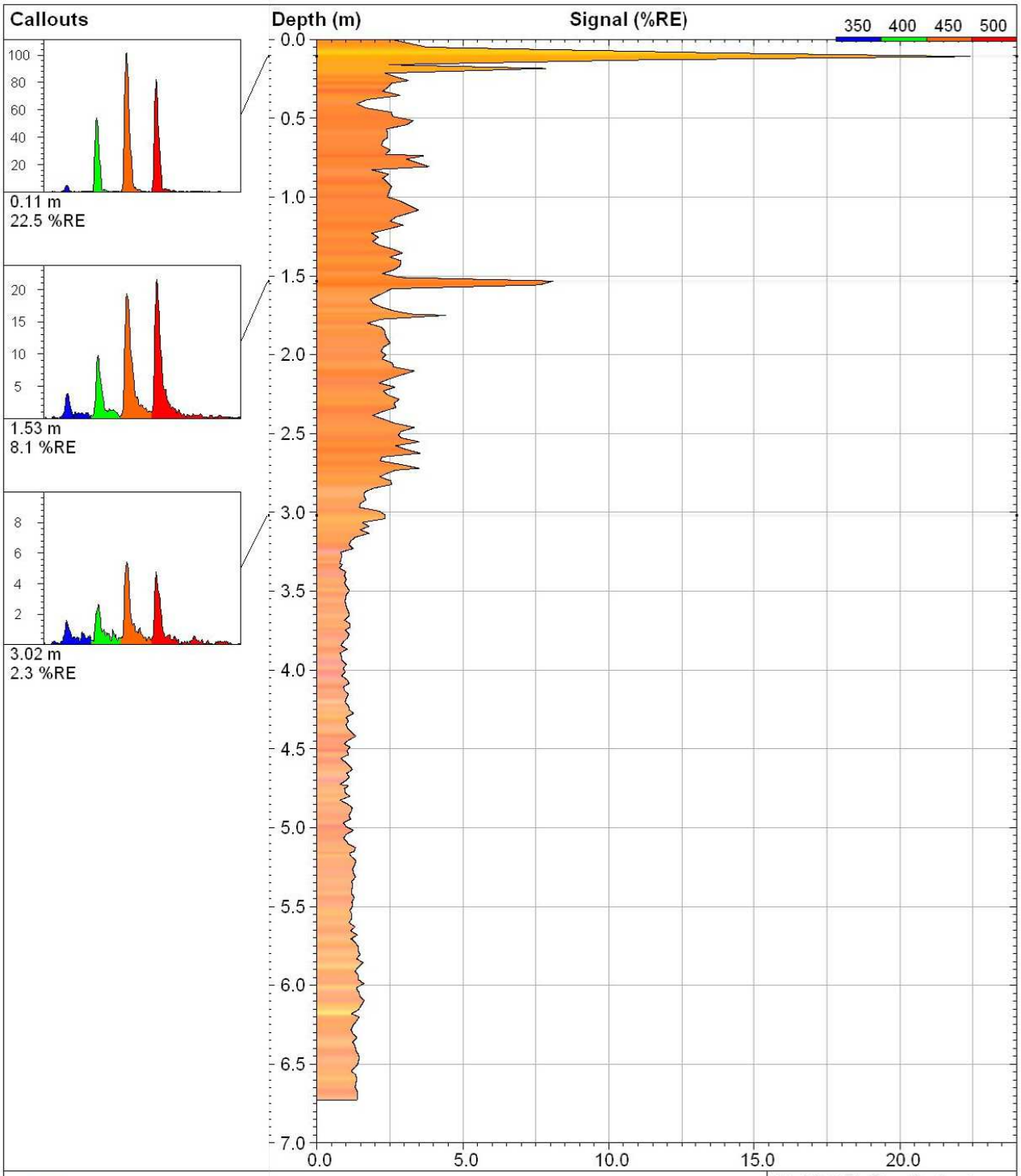
LIF_009

UVOST By Dakota
www.DakotaTechnologies.com

Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.63 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.4 %RE @ 2.55 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 14:44 FLEDT**



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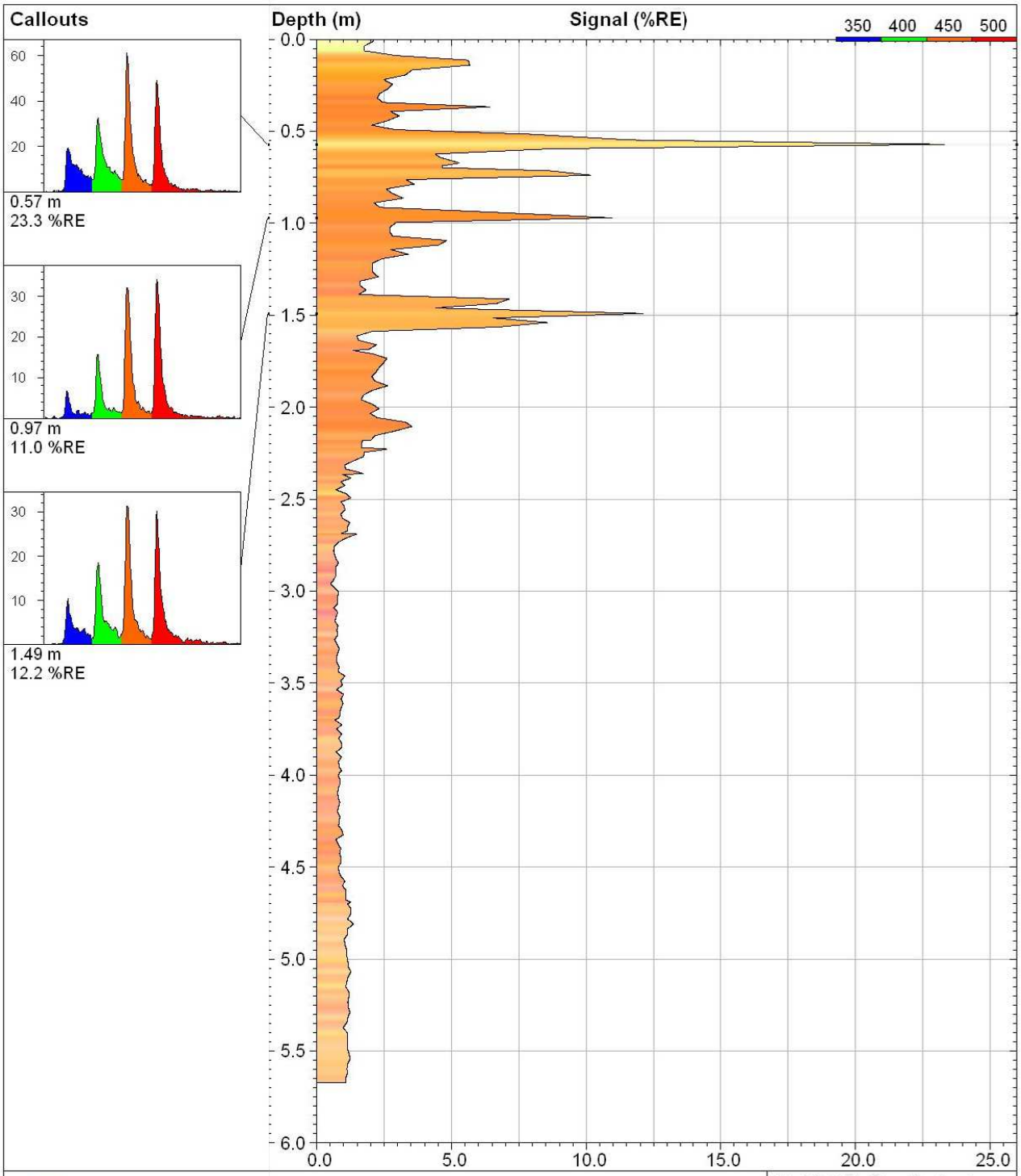
LIF_010		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.73 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **22.5 %RE @ 0.11 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 15:47 FLEDT**



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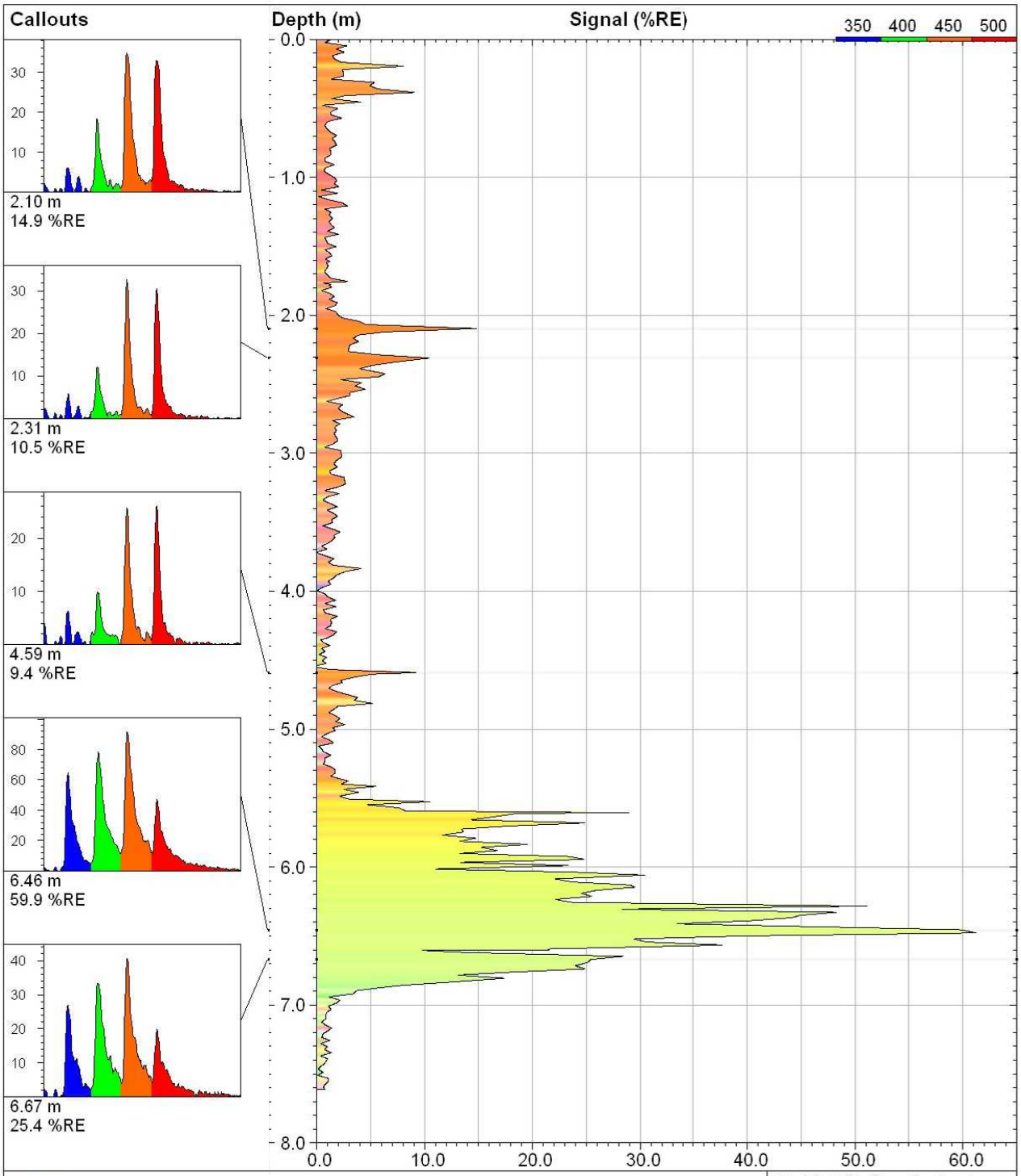
LIF_011		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.67 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **23.3 %RE @ 0.57 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-20 16:23 FLEDT**



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LIF_012

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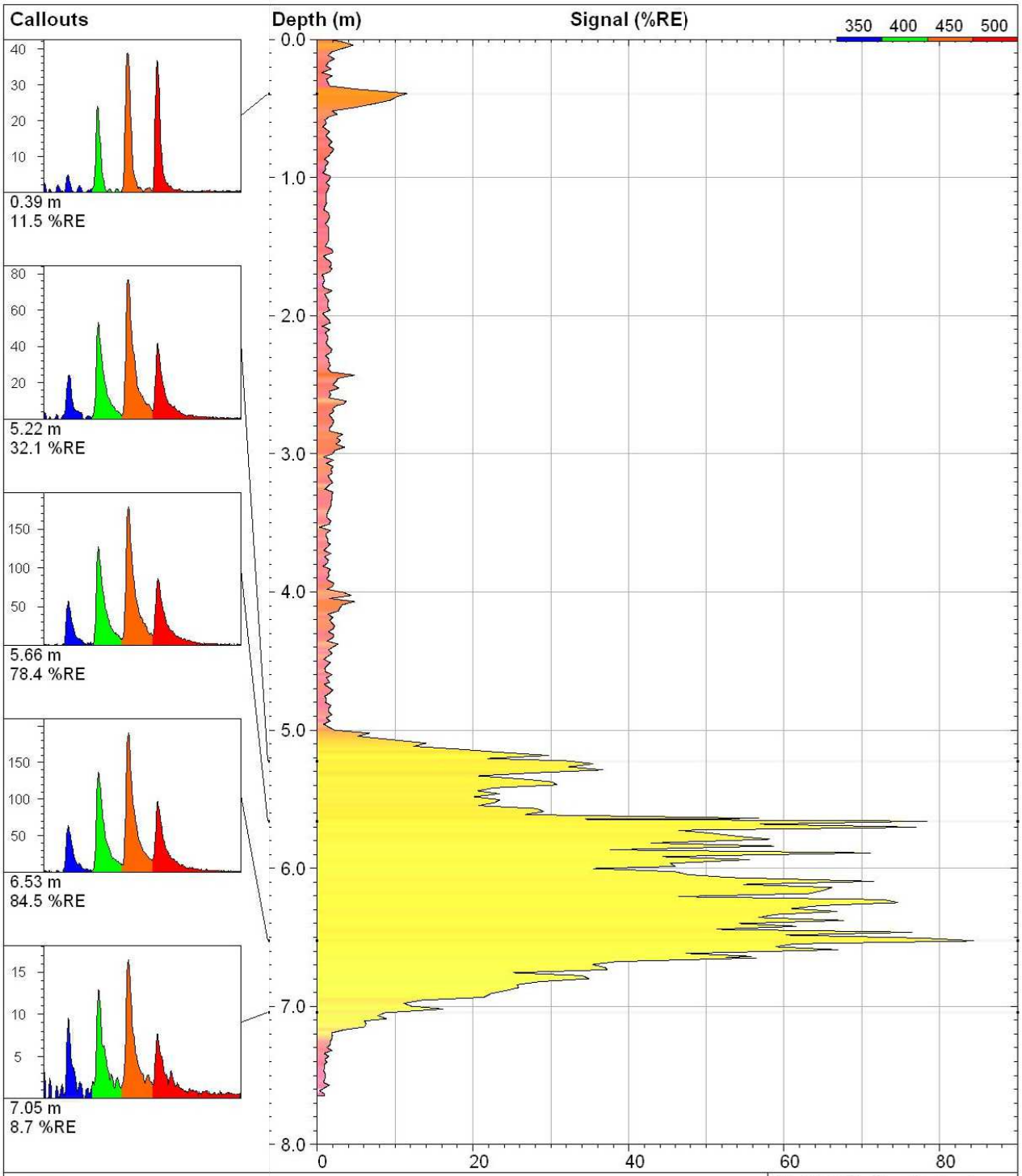
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.61 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **61.2 %RE @ 6.48 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 09:53 FLEDT**



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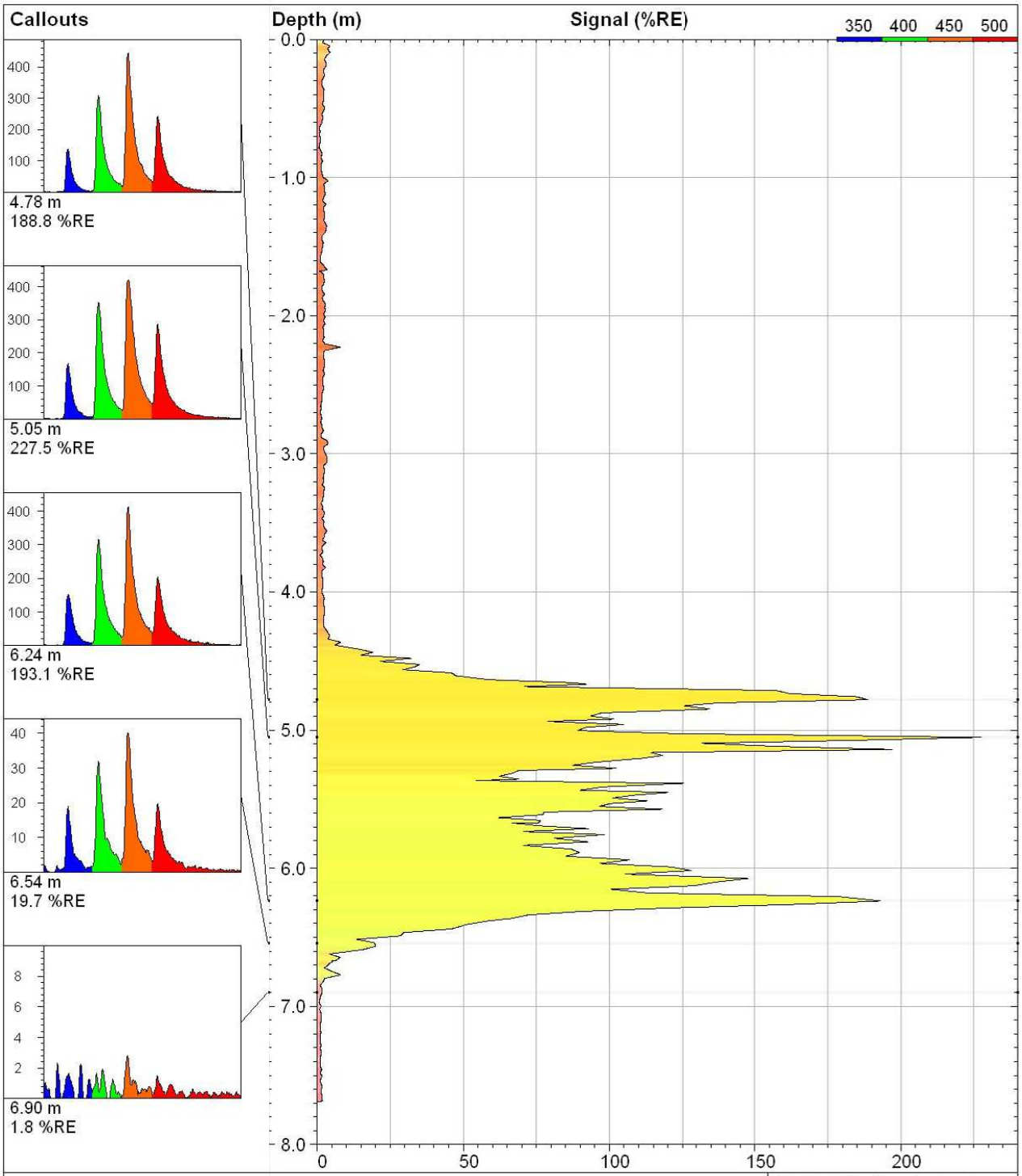
LIF_013		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.65 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **84.5 %RE @ 6.53 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 10:24 FLEDT**



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LIF_014

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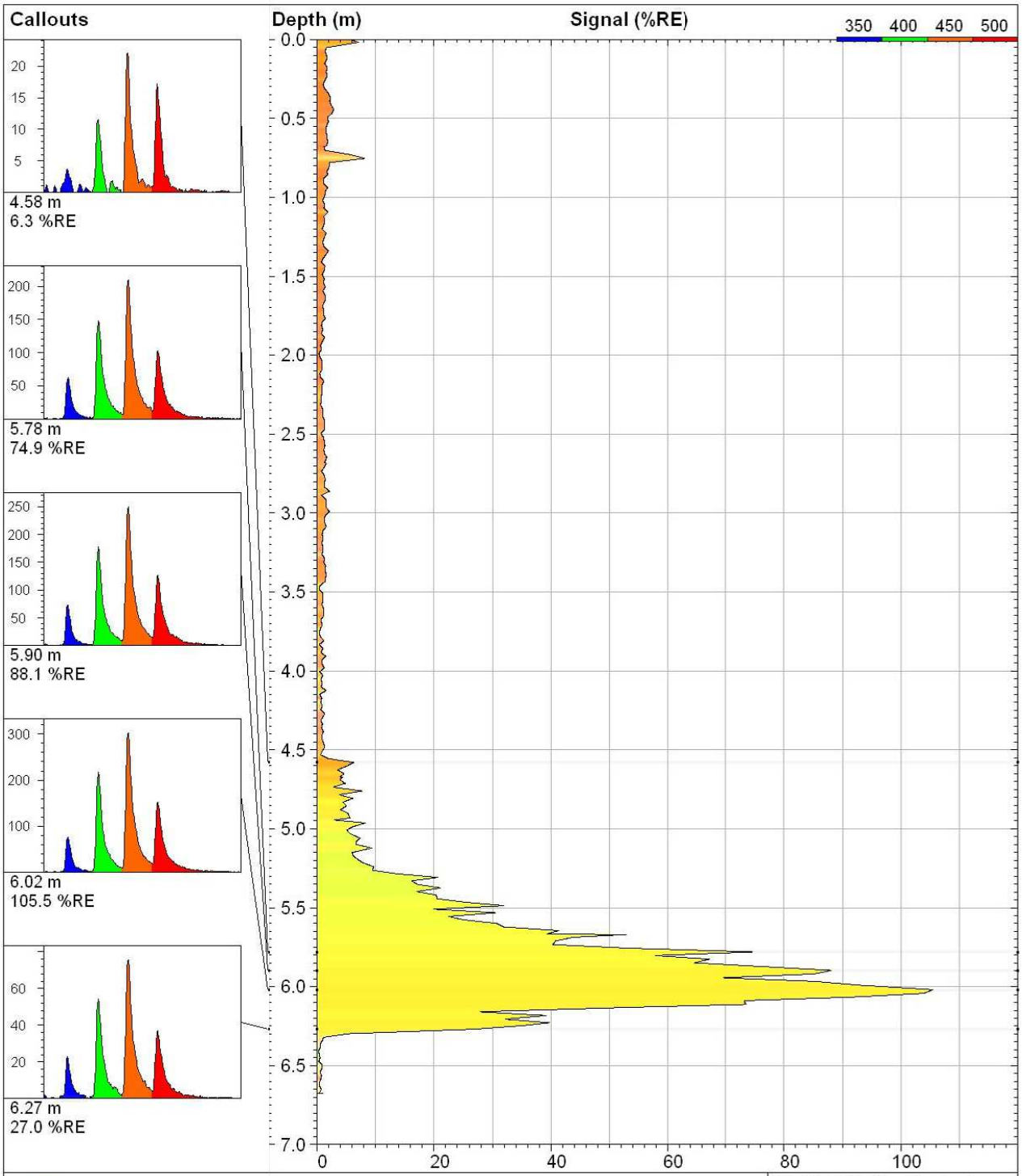
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.69 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **227.5 %RE @ 5.05 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 11:04 FLEDT**



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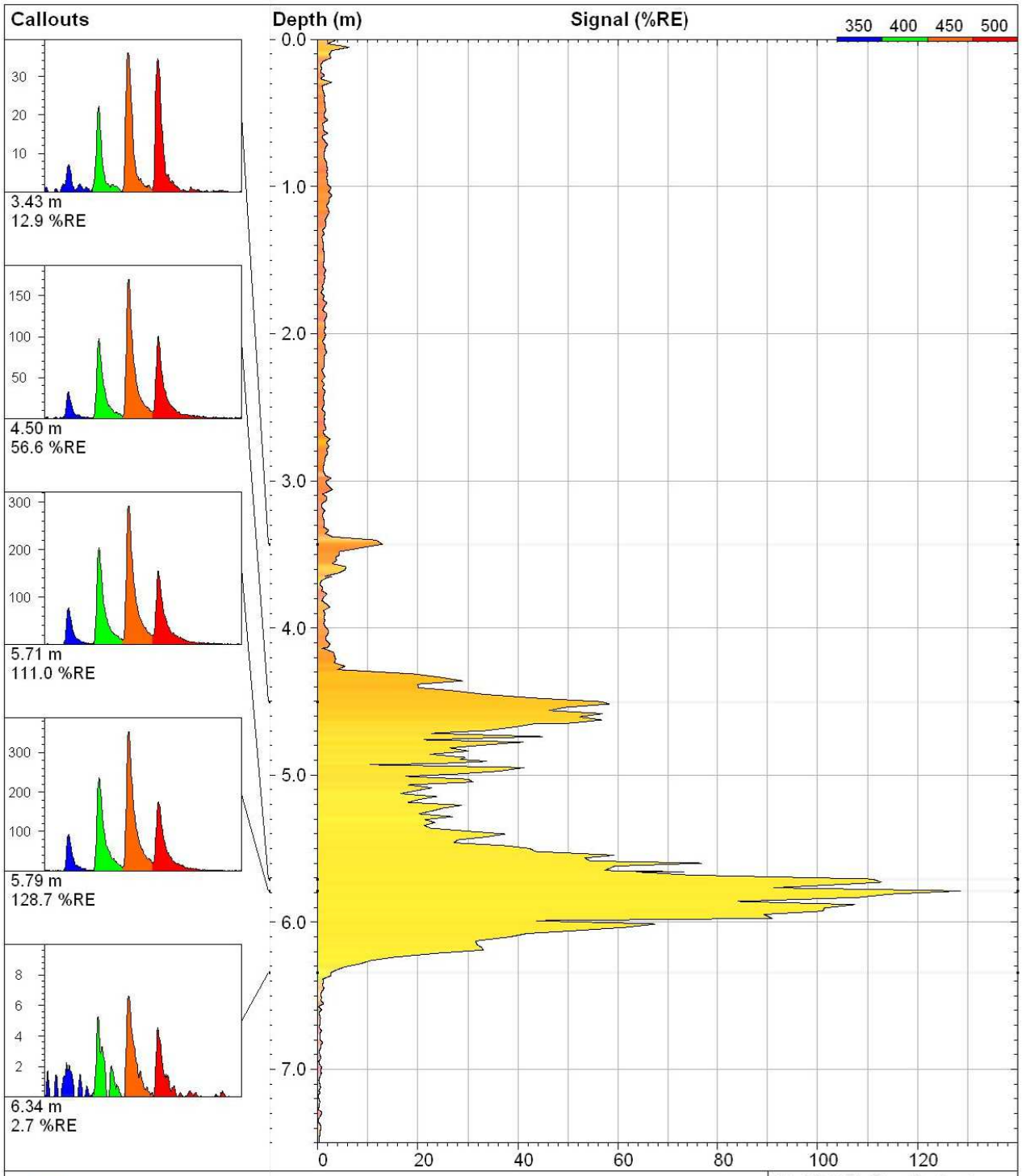
LIF_015		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.67 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **105.5 %RE @ 6.02 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 12:50 FLEDT**



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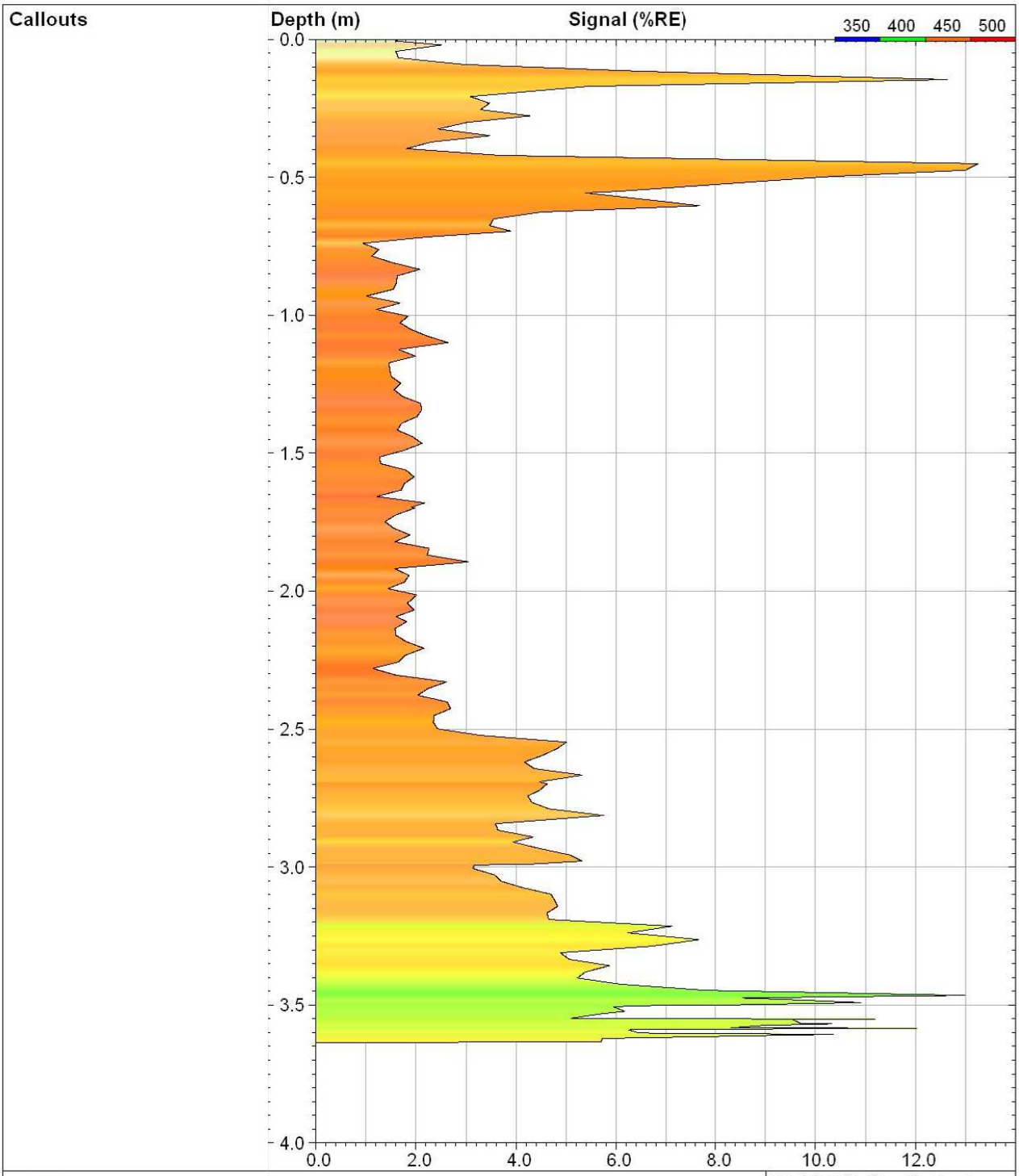
LIF_016		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.50 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **128.7 %RE @ 5.79 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 13:57 FLEDT**



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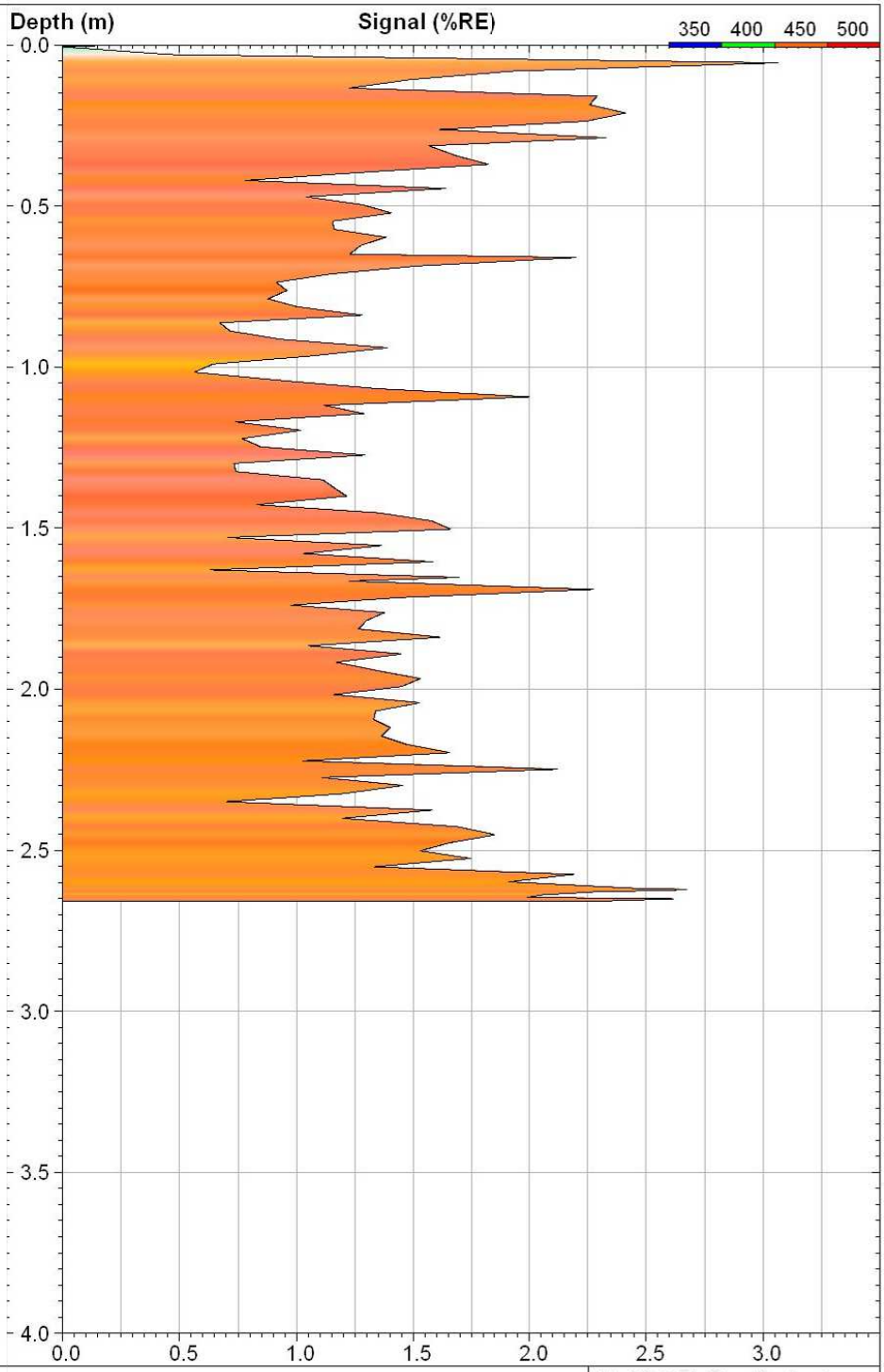
LIF_017		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.64 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.3 %RE @ 0.45 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 14:47 FLEDT**

Callouts



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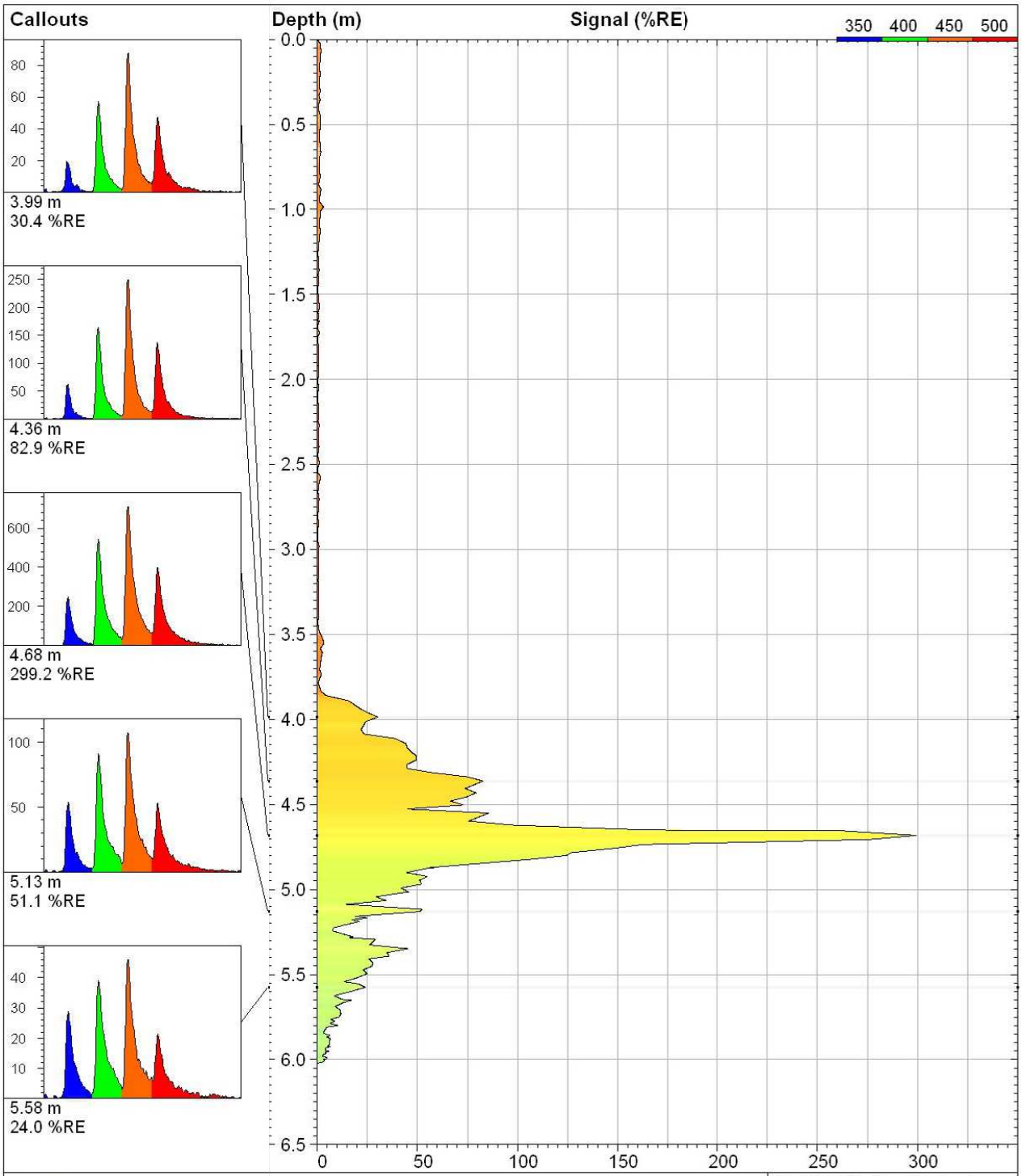
LIF_018		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.66 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.1 %RE @ 0.06 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 15:31 FLEDT**



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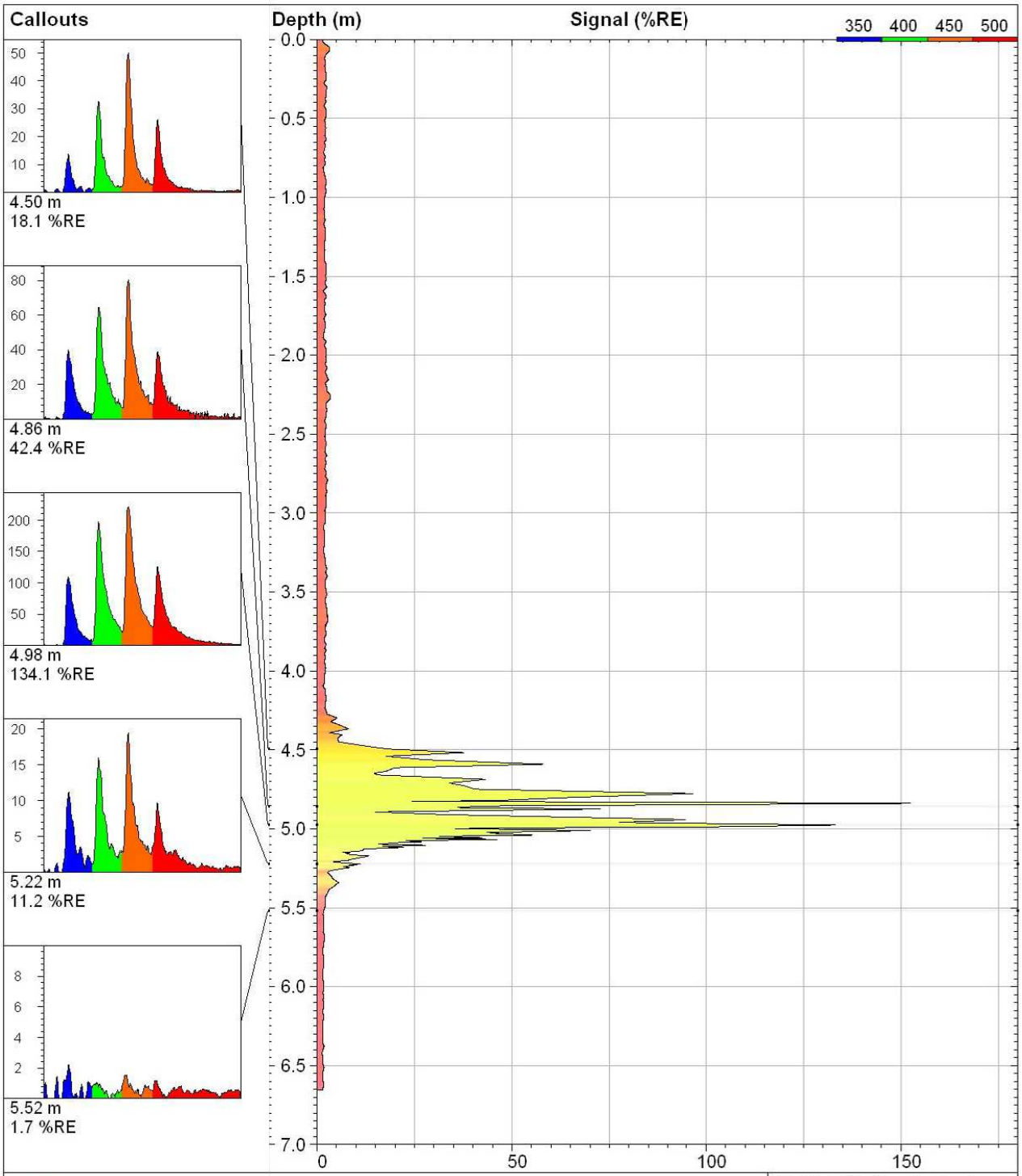
LIF_019		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.02 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **299.2 %RE @ 4.68 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-21 16:02 FLEDT**



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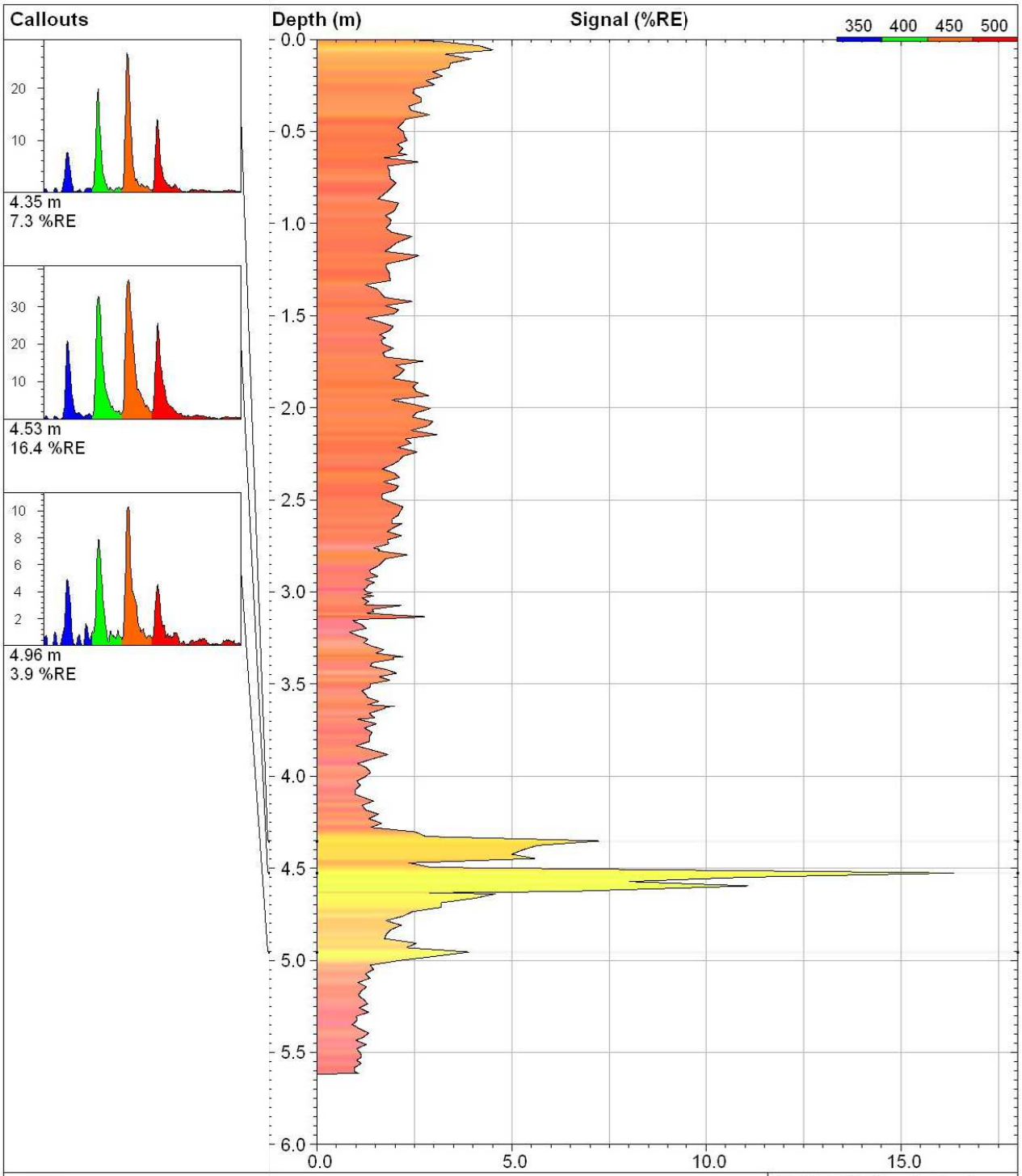
LIF_020		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.66 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **153.2 %RE @ 4.84 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 09:49 FLEDT**



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LIF_021

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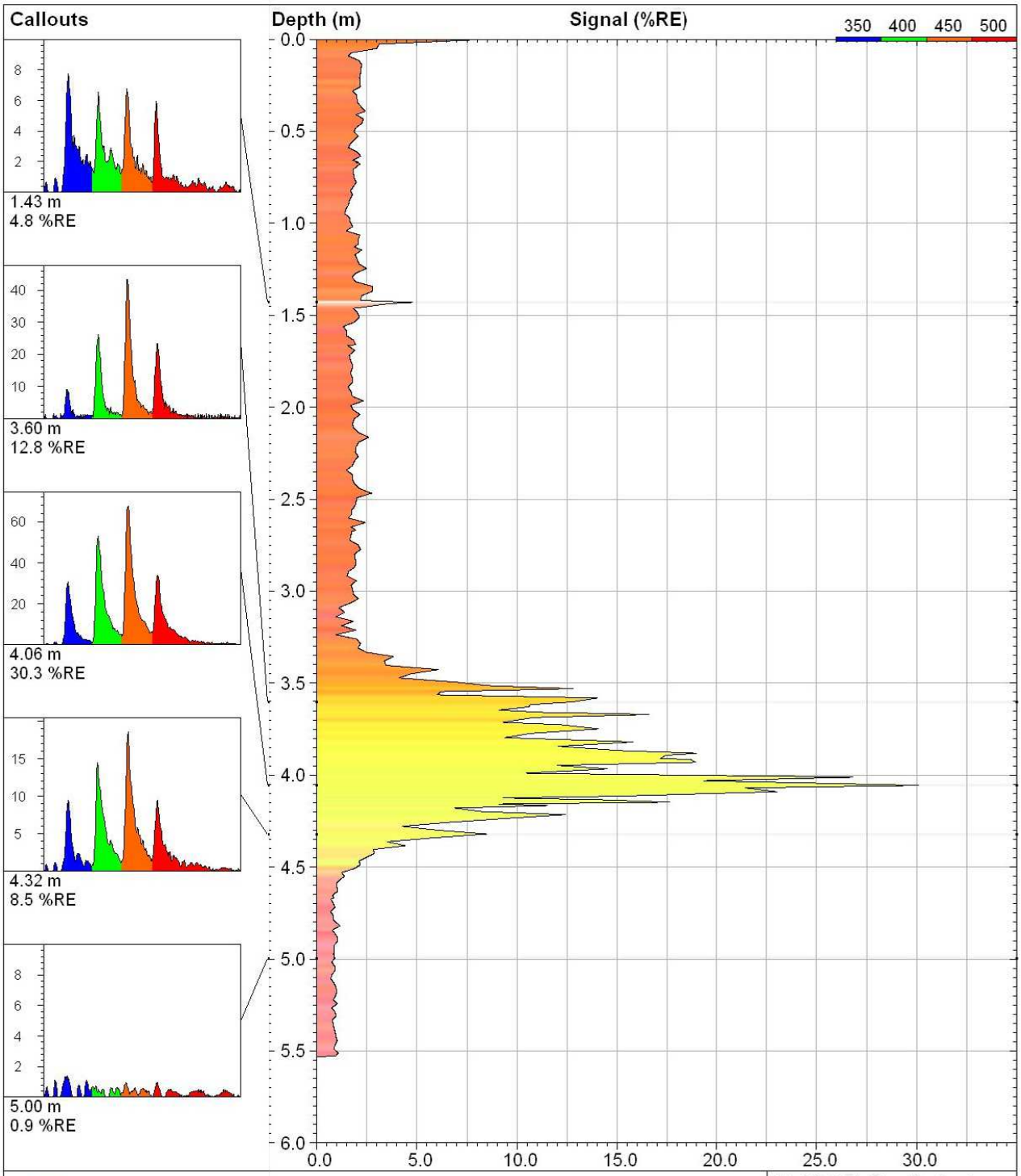
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.62 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.4 %RE @ 4.53 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 10:35 FLEDT**



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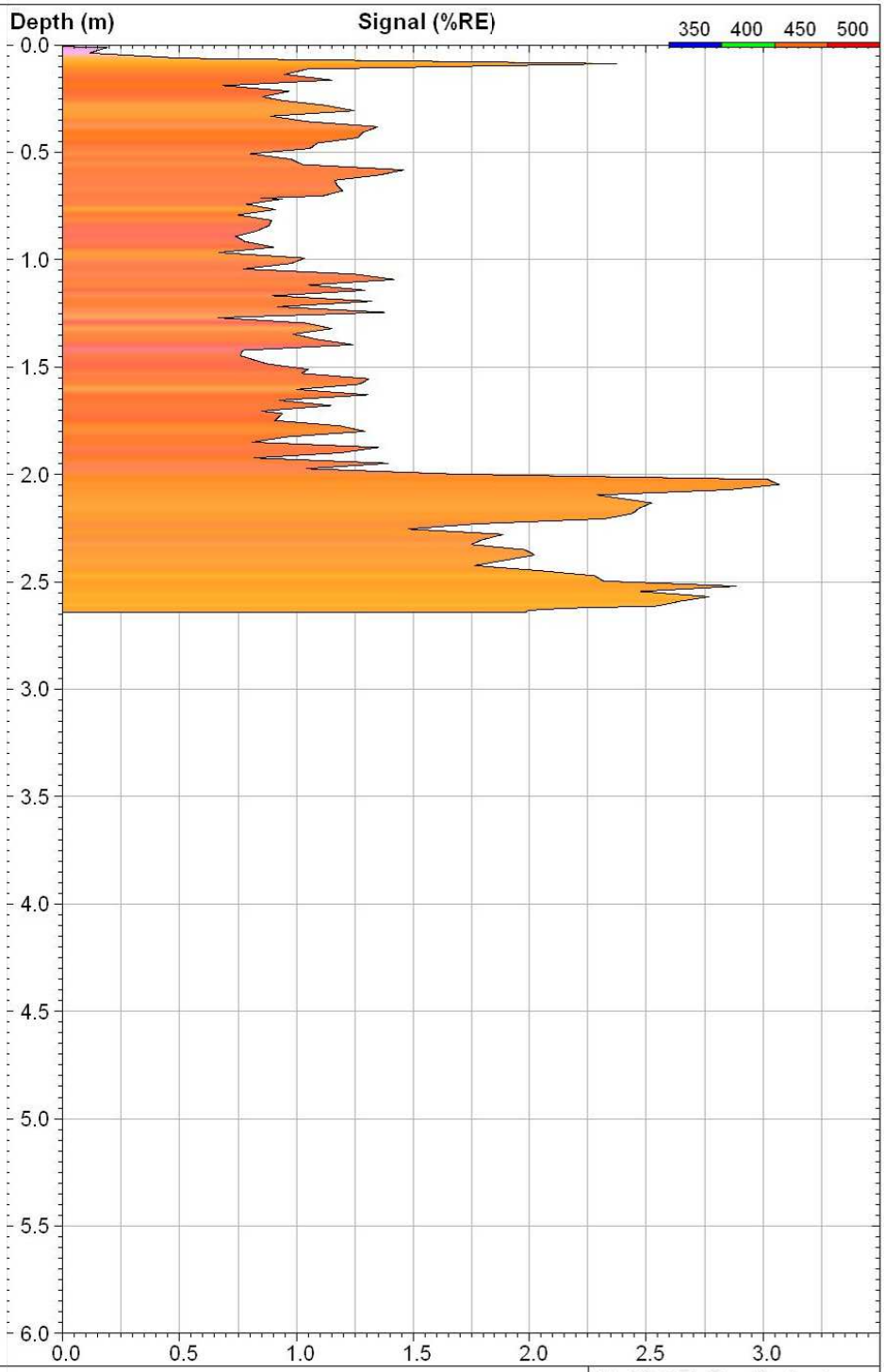
LIF_022		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.53 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **30.3 %RE @ 4.06 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 11:10 FLEDT**

Callouts



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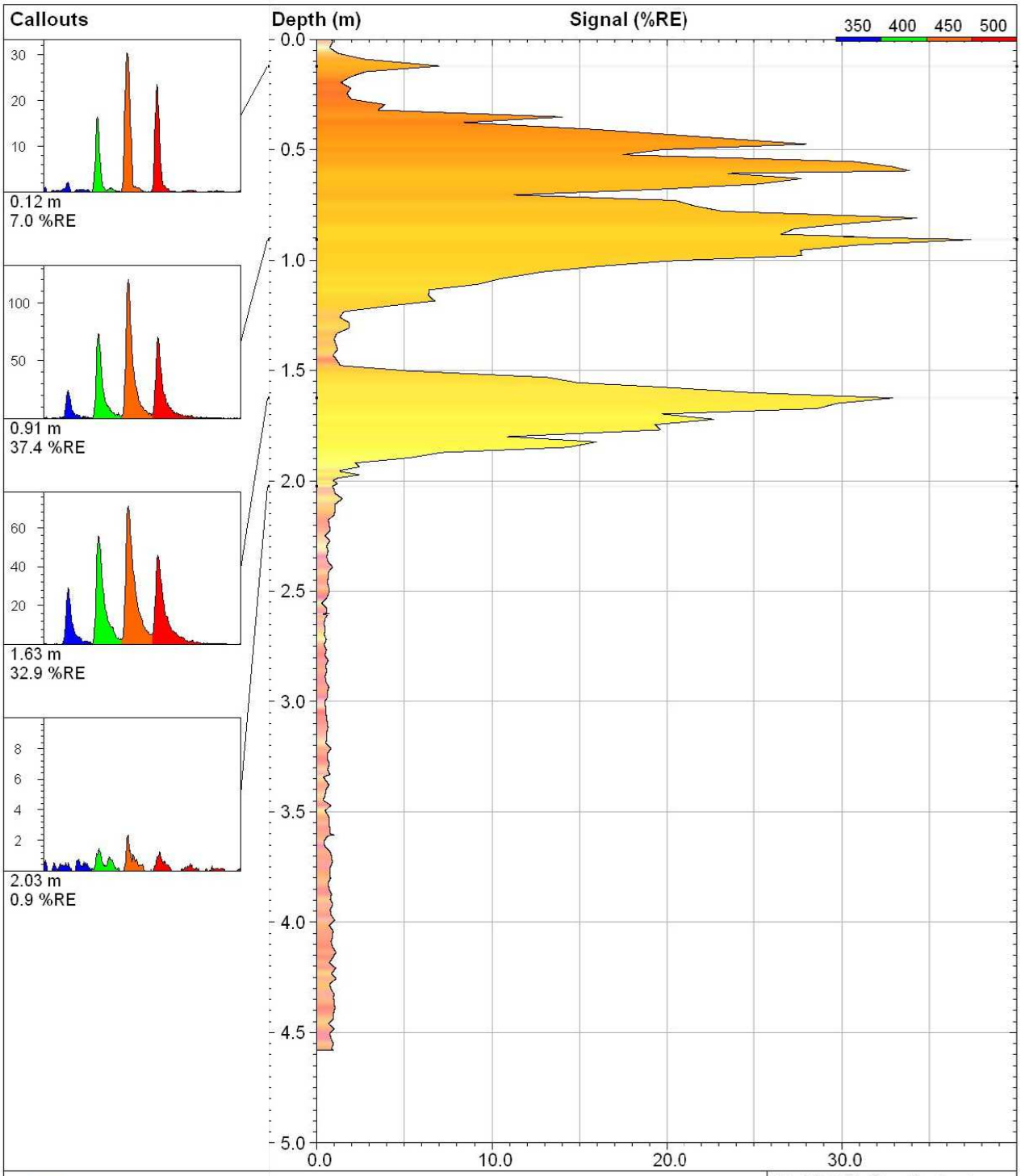
LIF_023-3		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.64 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.1 %RE @ 2.05 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 14:36 FLEDT**



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LIF_024

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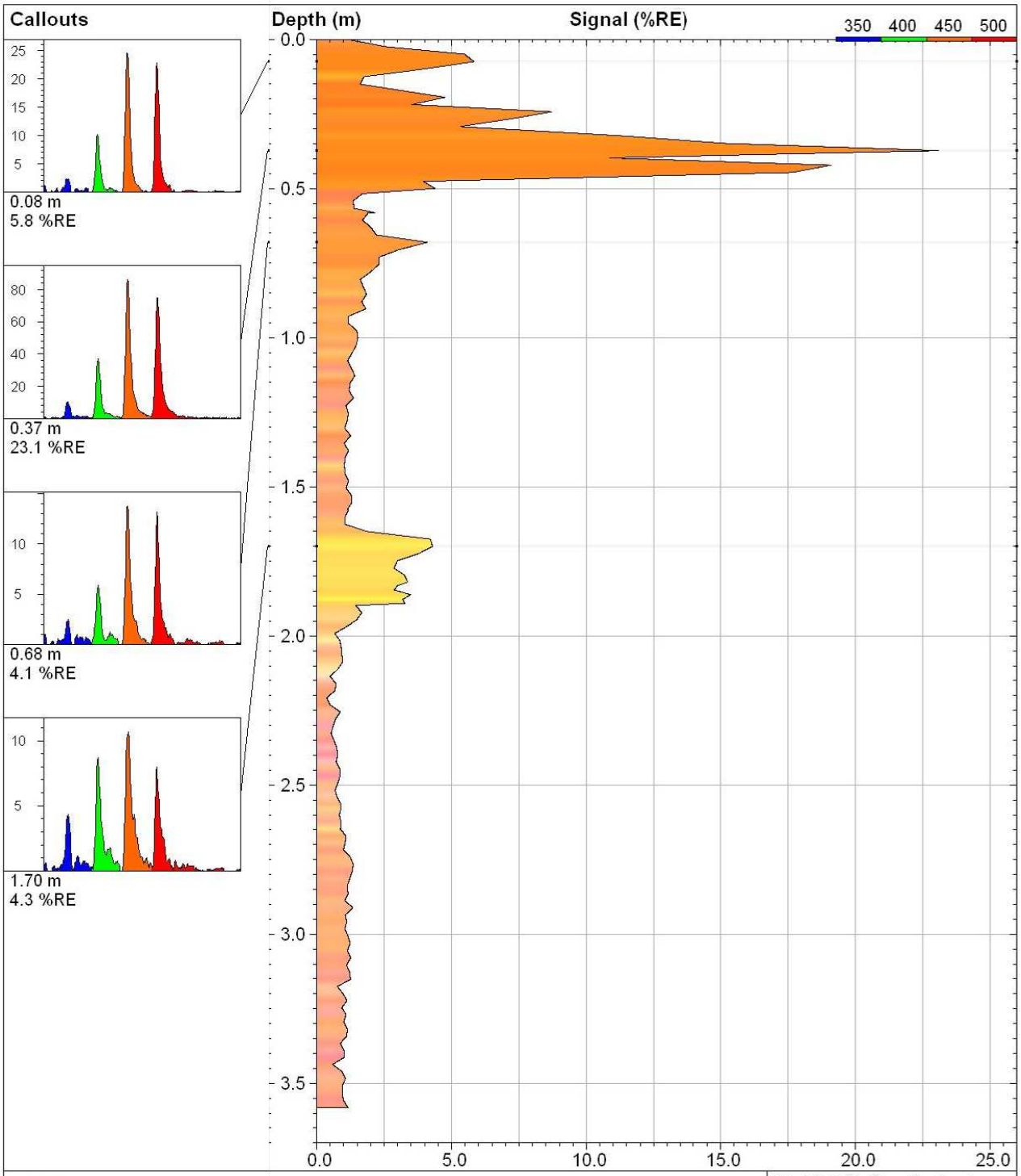
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.58 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **37.4 %RE @ 0.91 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 14:59 FLEDT**



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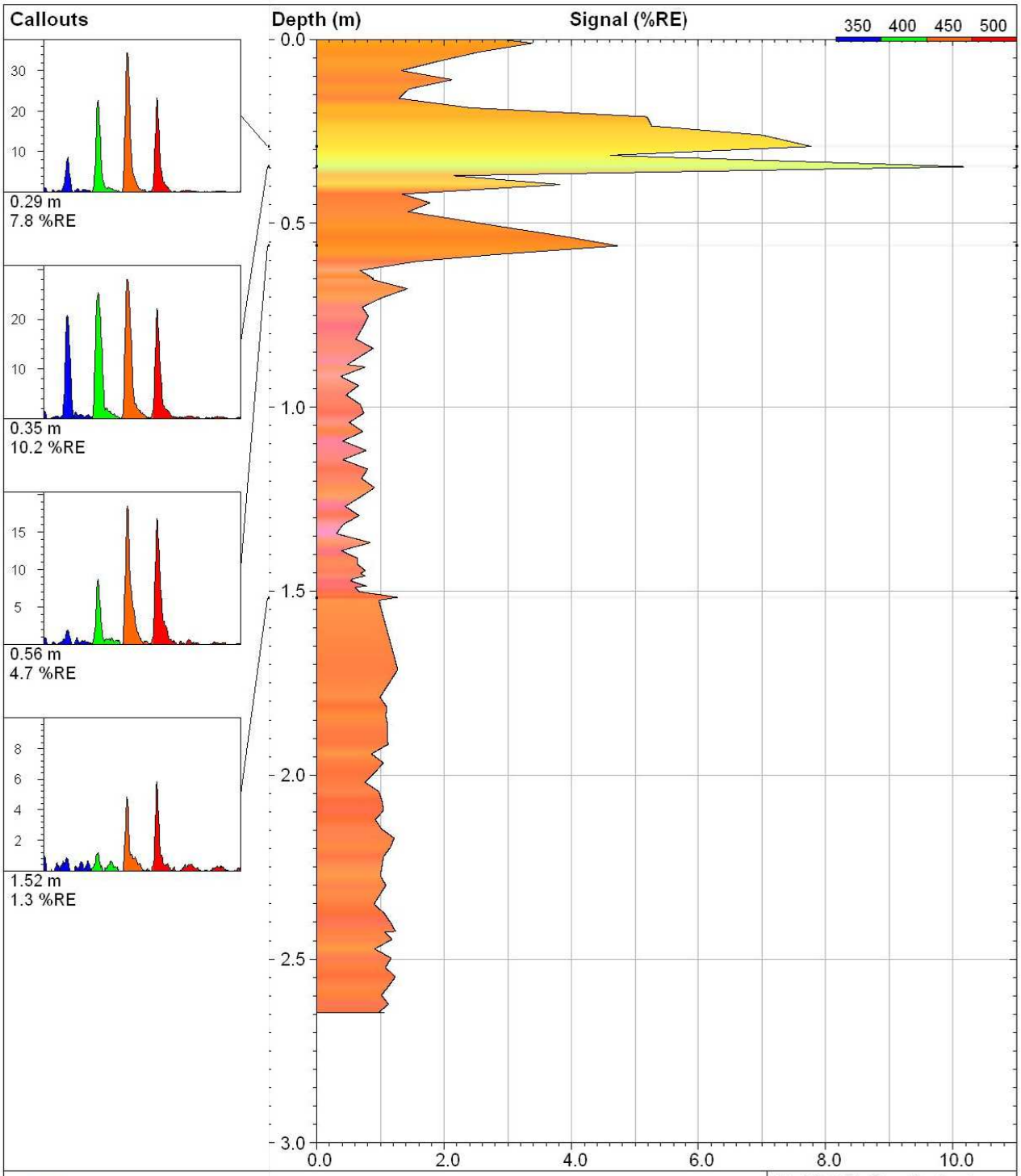
LIF_025		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.58 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **23.1 %RE @ 0.37 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 15:44 FLEDT**



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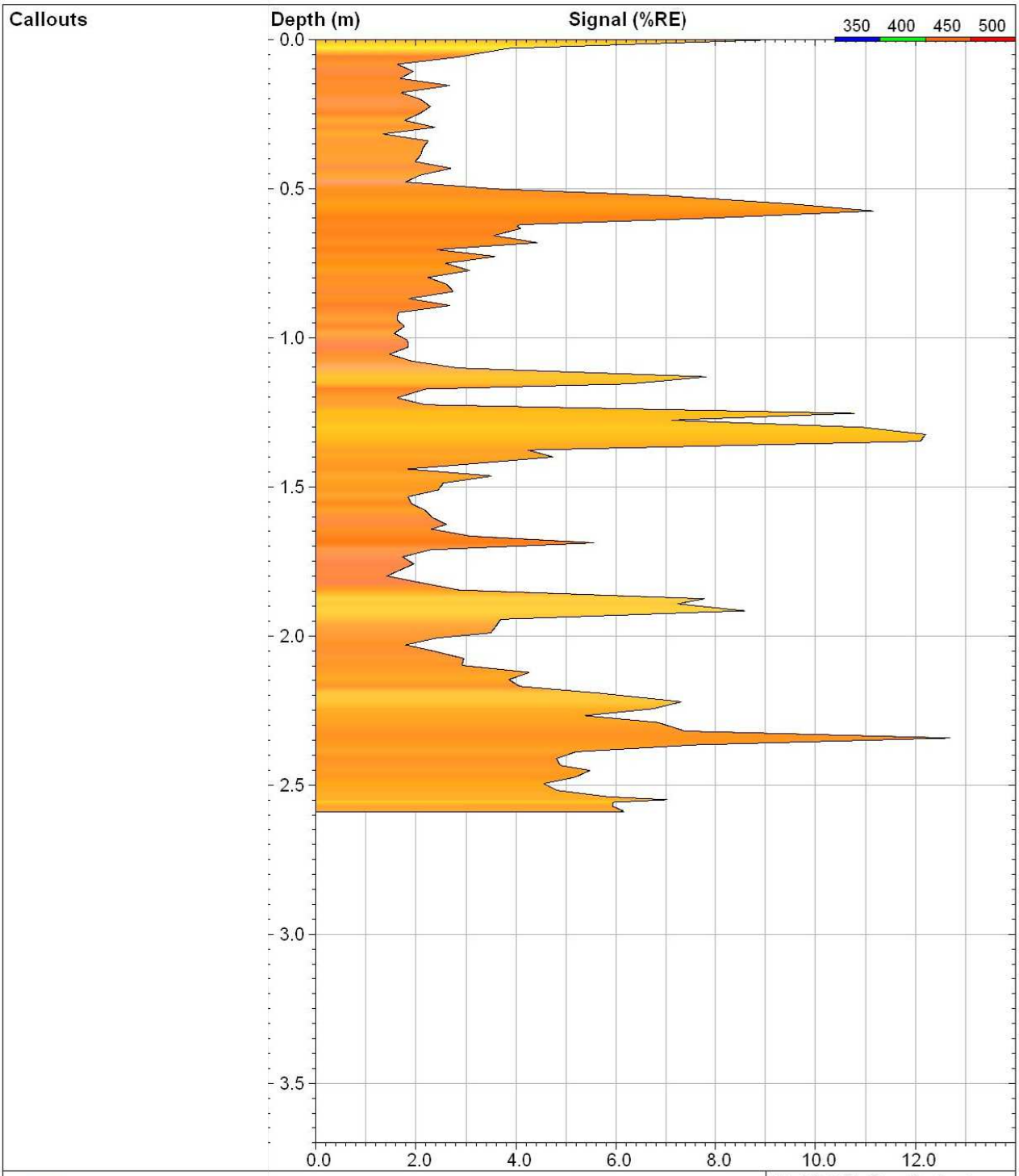
LIF_026		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.65 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **10.2 %RE @ 0.35 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-22 15:22 FLEDT**



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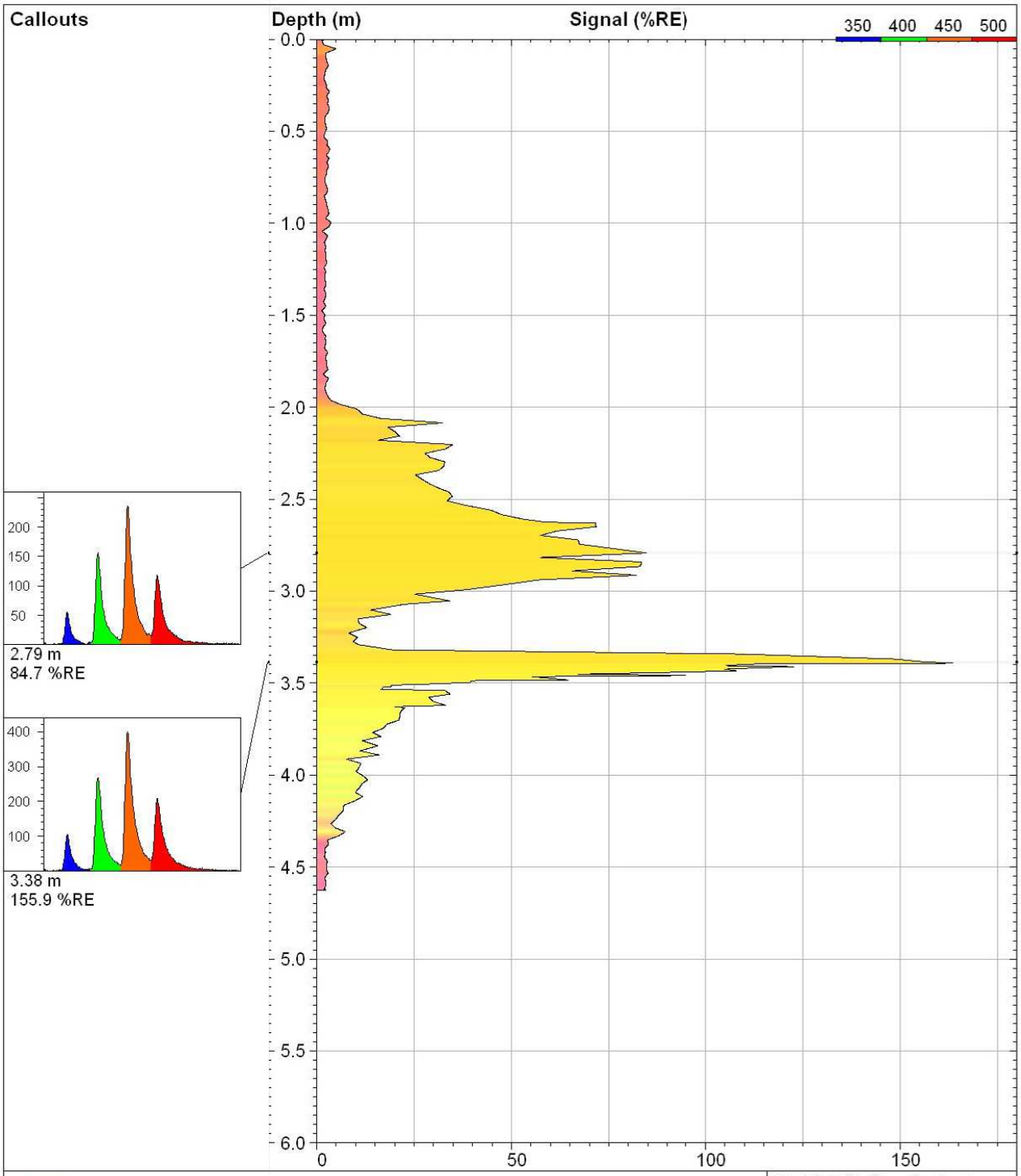
LIF_027-2		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.59 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.7 %RE @ 2.34 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-23 09:52 FLEDT**



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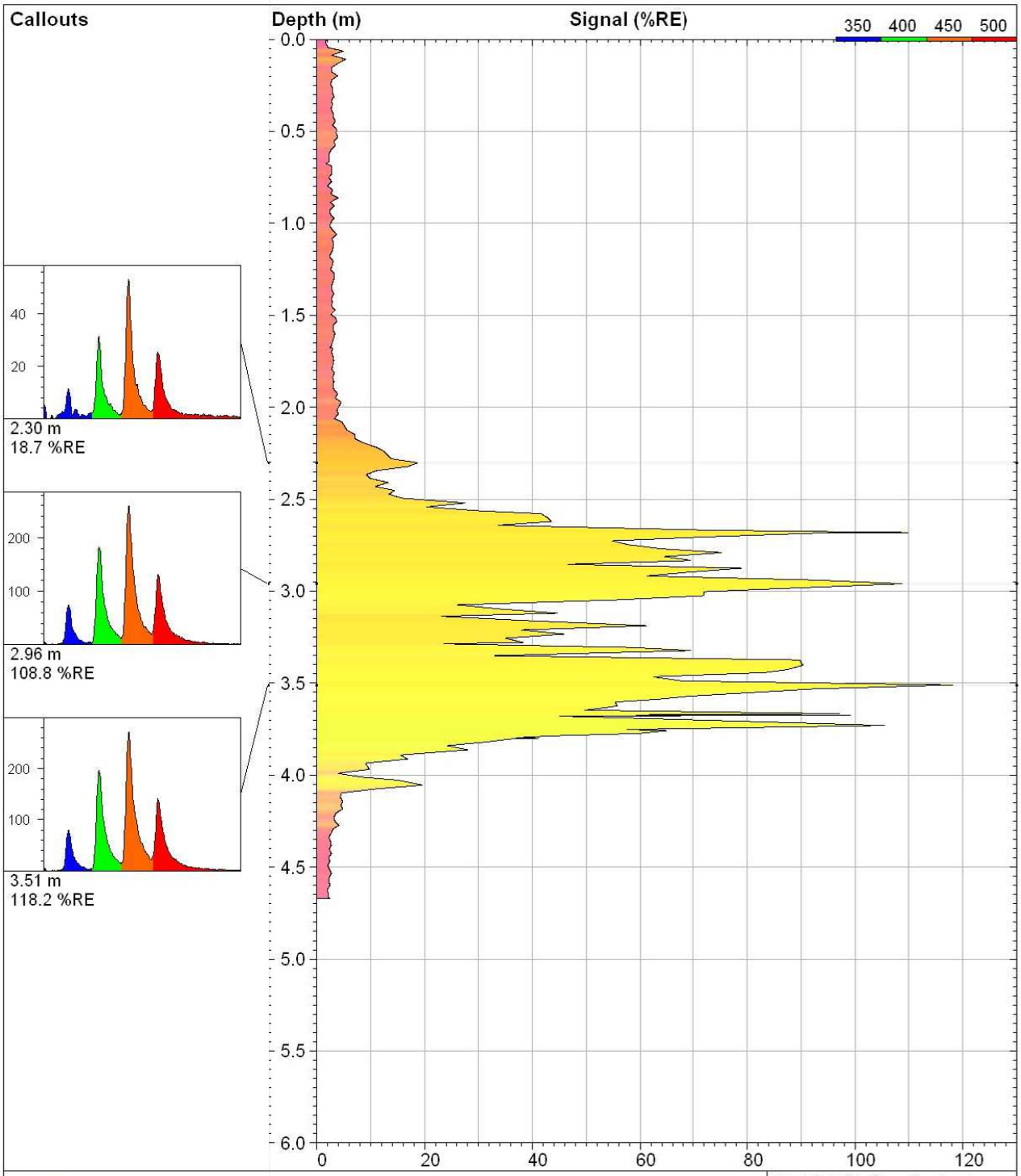
LIF_028		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.62 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **163.9 %RE @ 3.39 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-26 13:17 FLEST**



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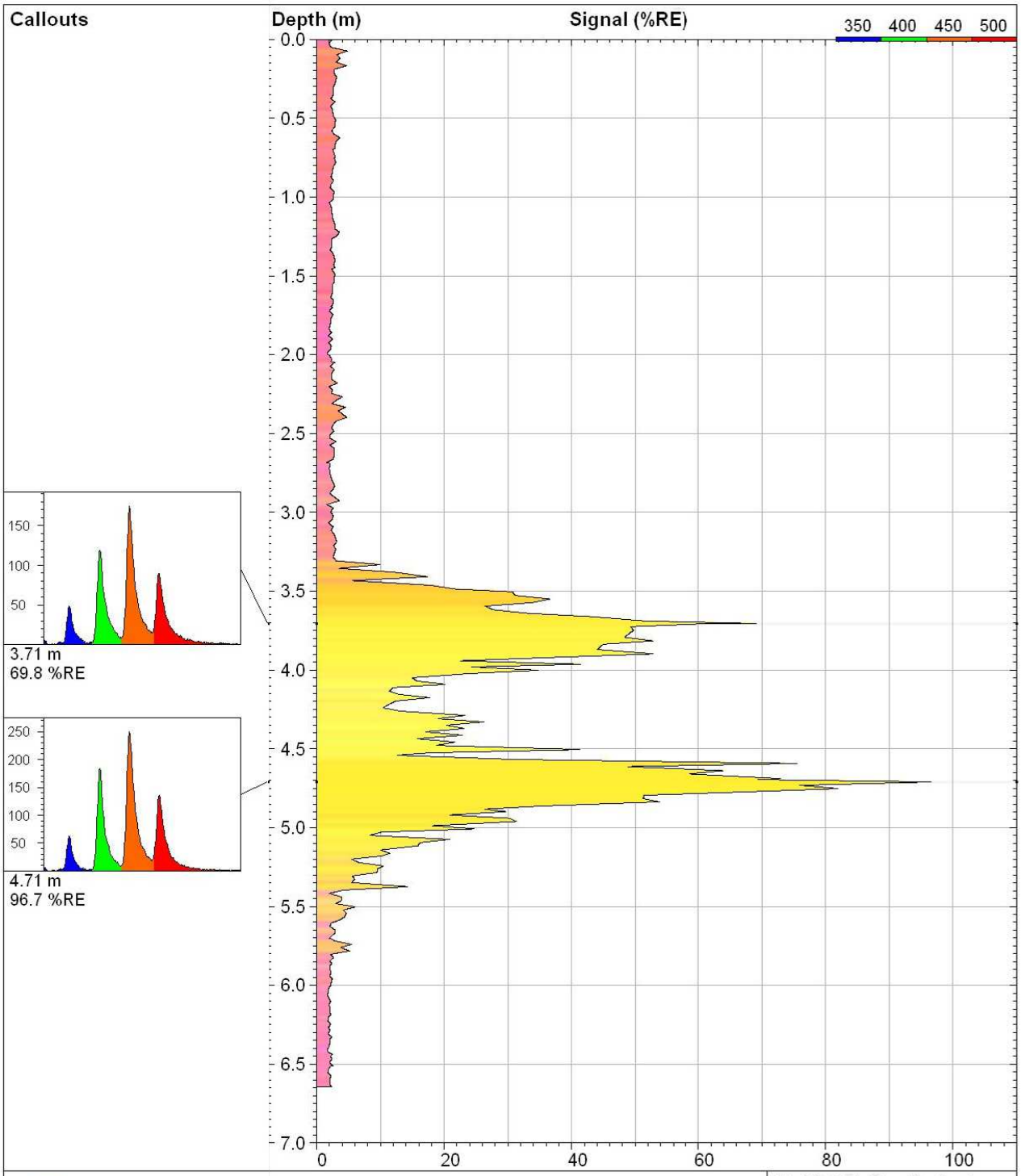
LIF_029		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.67 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **118.2 %RE @ 3.51 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-26 13:40 FLEST**



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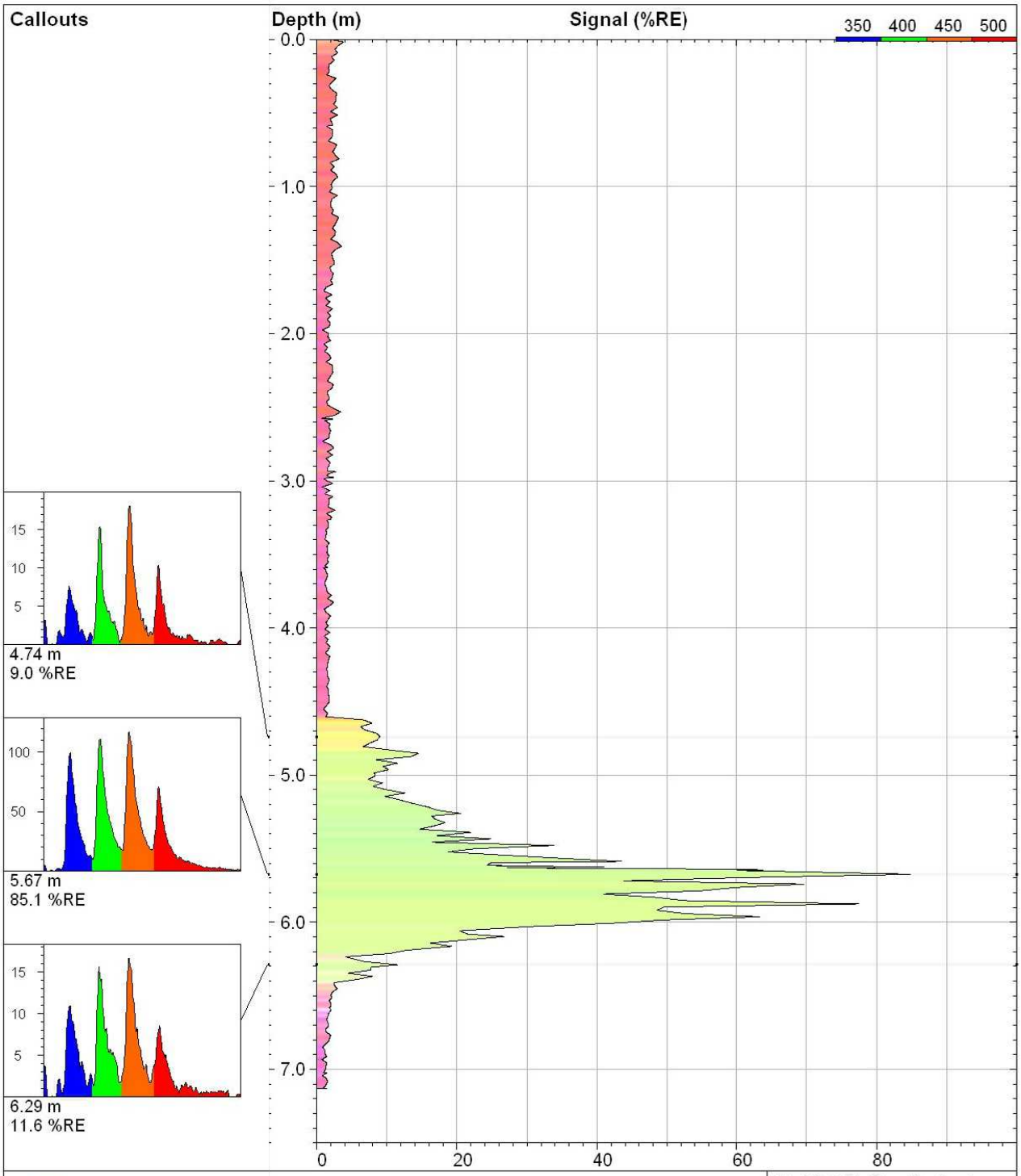
LIF_030		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.64 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **96.7 %RE @ 4.71 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-26 14:54 FLEST**



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LIF_031

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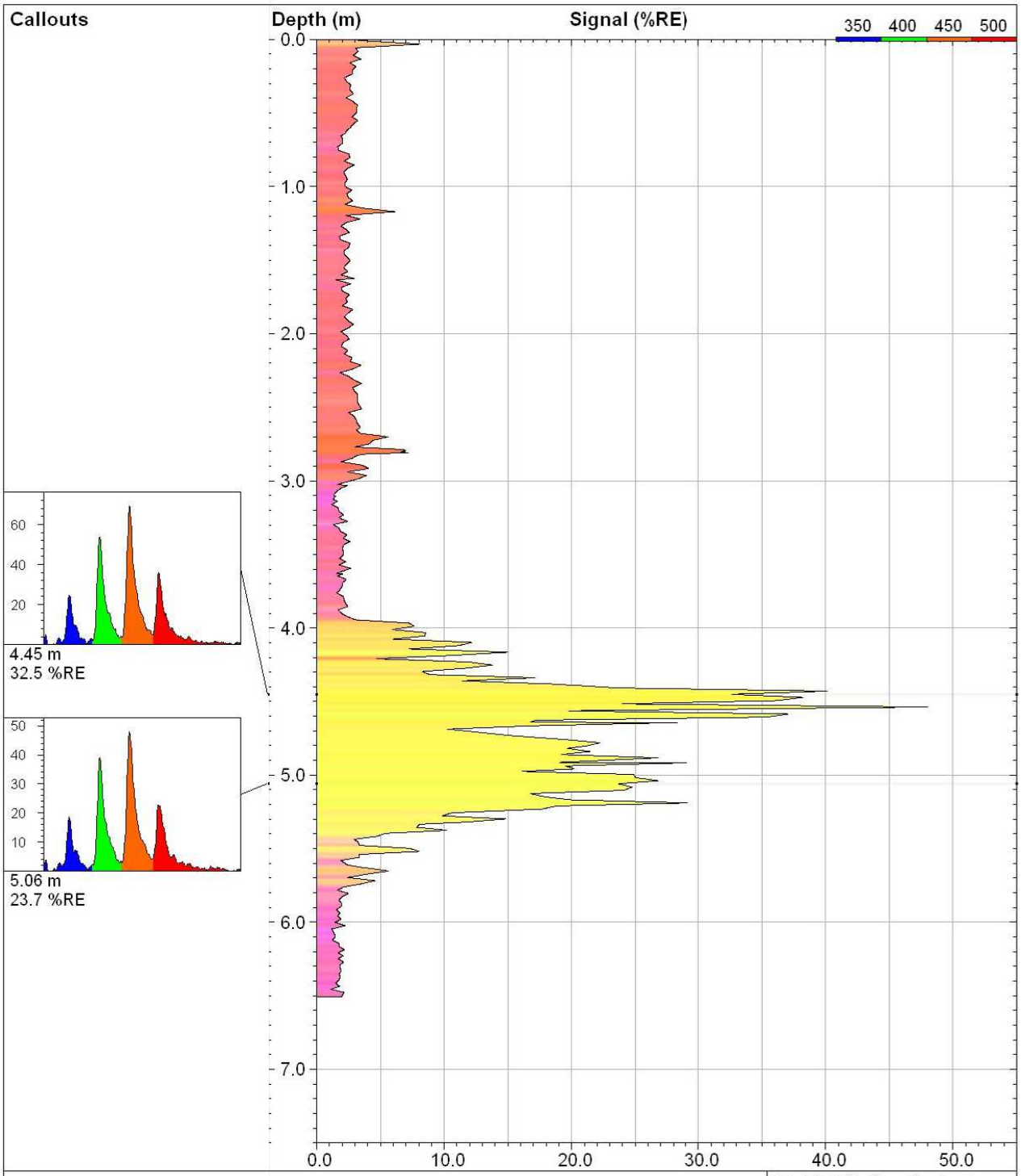
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.13 m**
Client / Job: /	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **85.1 %RE @ 5.67 m**
Operator / Unit: / **UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-26 15:20 FLEST**



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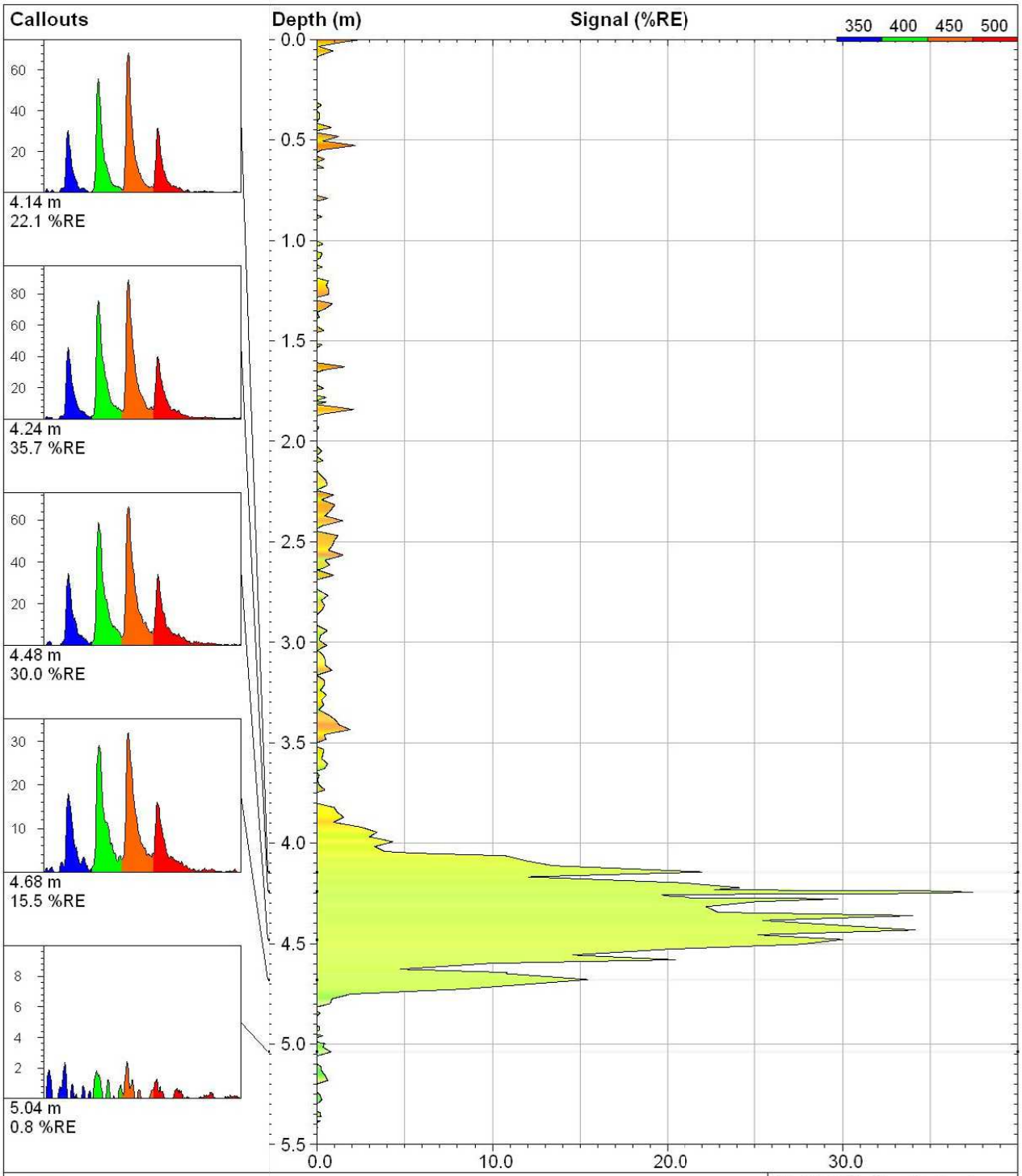
LIF_032		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.51 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **48.2 %RE @ 4.54 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-26 16:10 FLEST**



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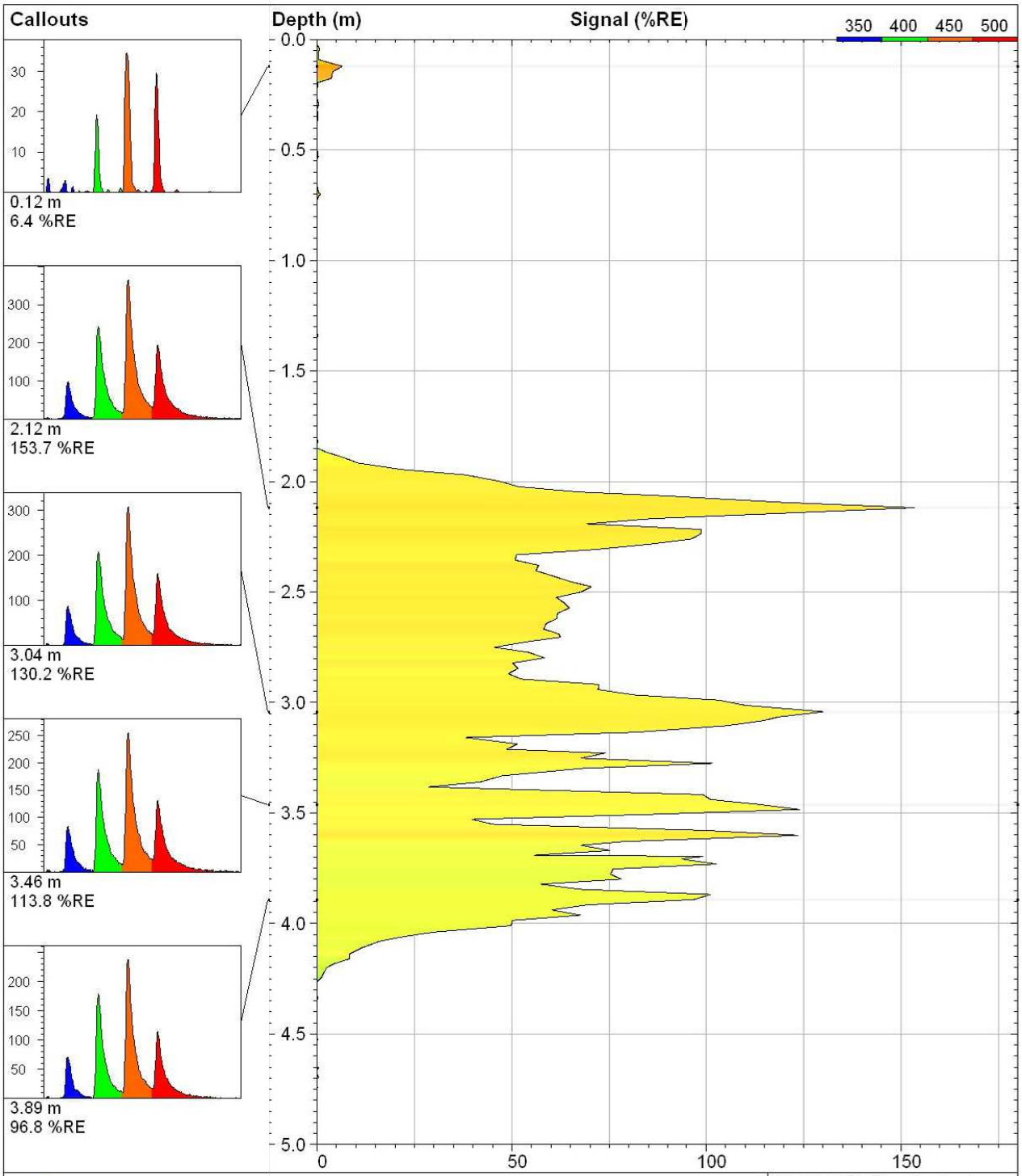
LIF_033		UVOST By Dakota www.DakotaTechnologies.com
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.42 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **37.5 %RE @ 4.25 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 09:37 FLEST**



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LIF_034

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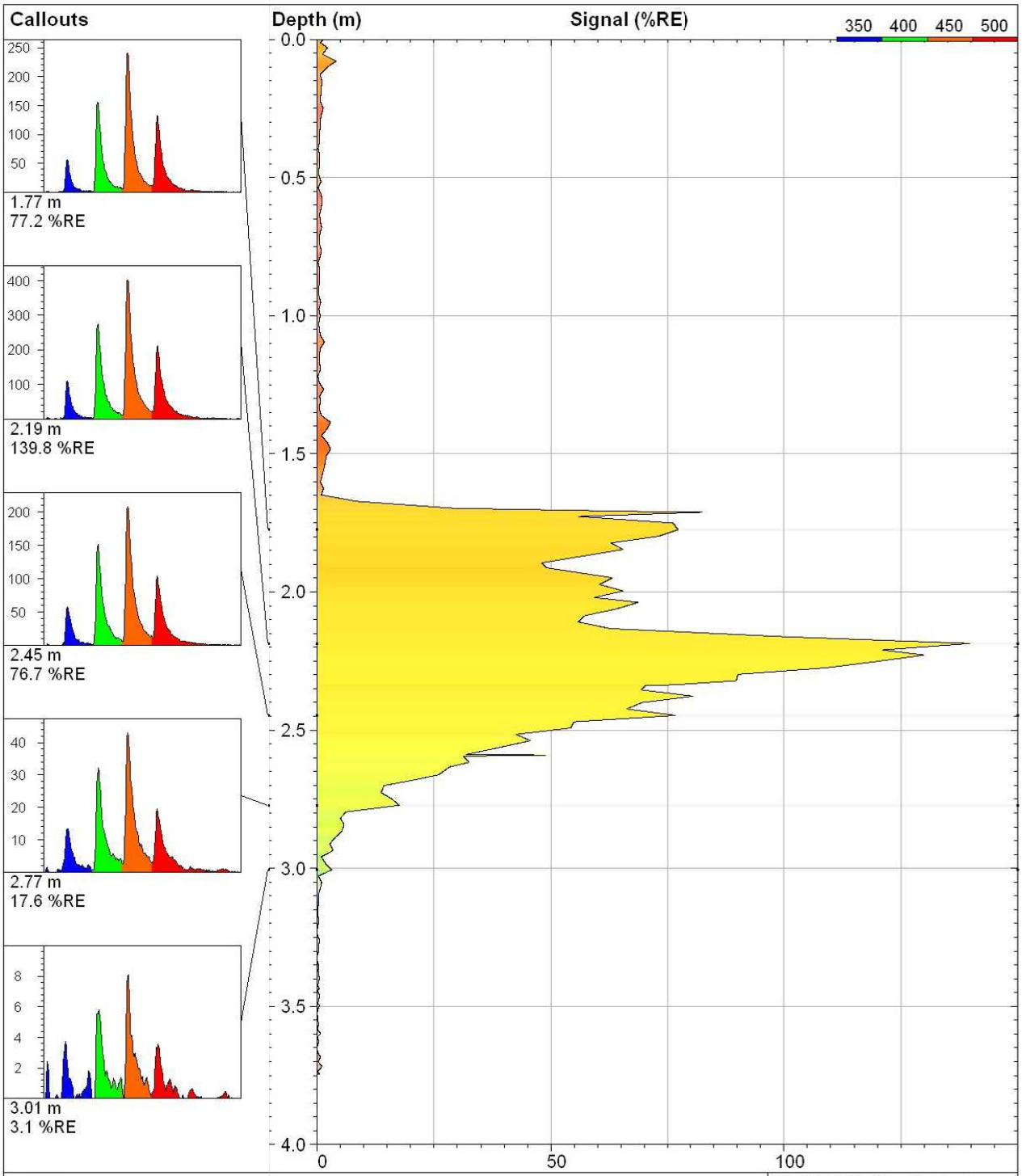
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.74 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **153.7 %RE @ 2.12 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 10:17 FLEST**



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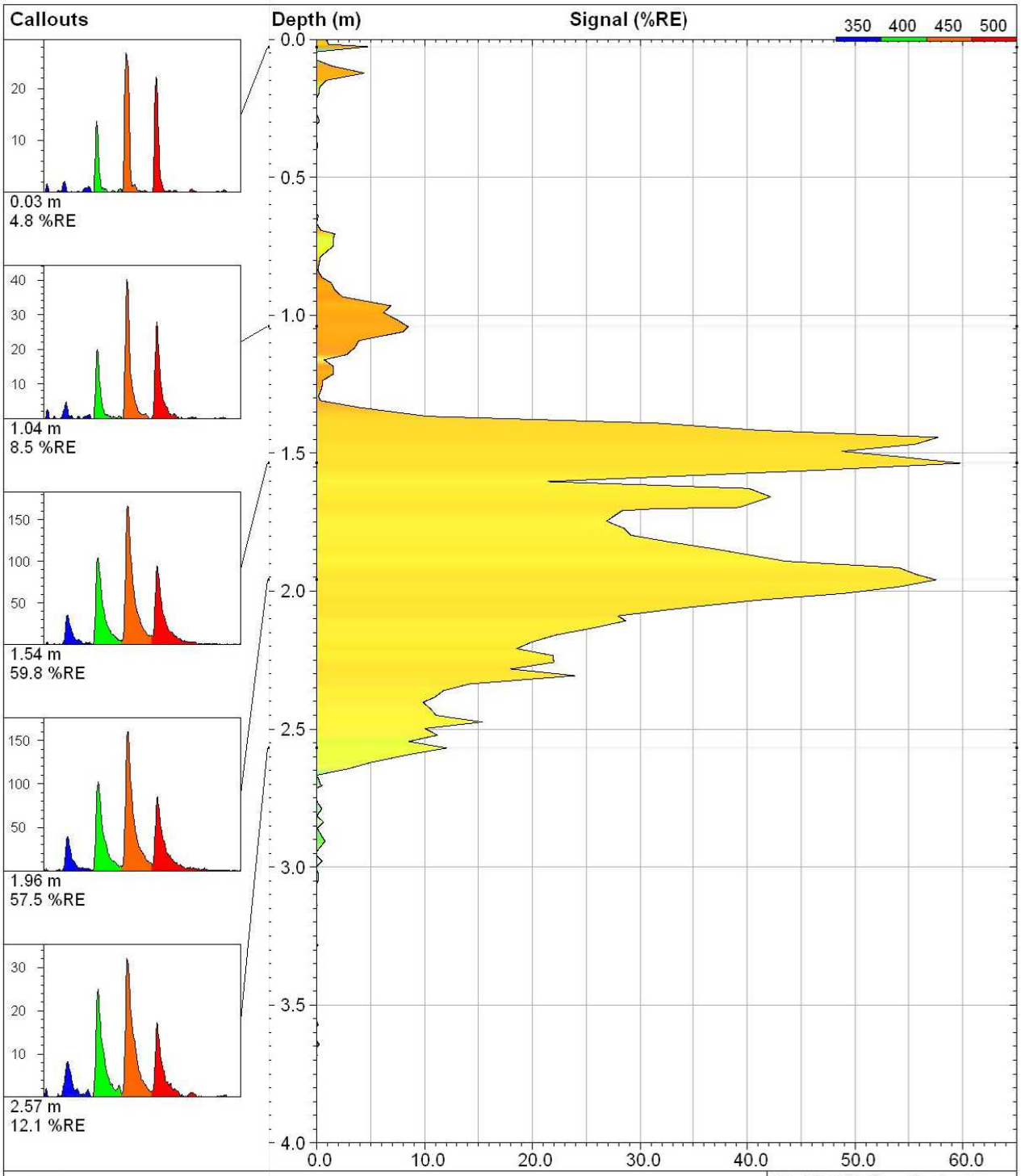
LIF_035-3		UVOST By Dakota www.DakotaTechnologies.com
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.75 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **139.8 %RE @ 2.19 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 12:05 FLEST**



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LIF_036

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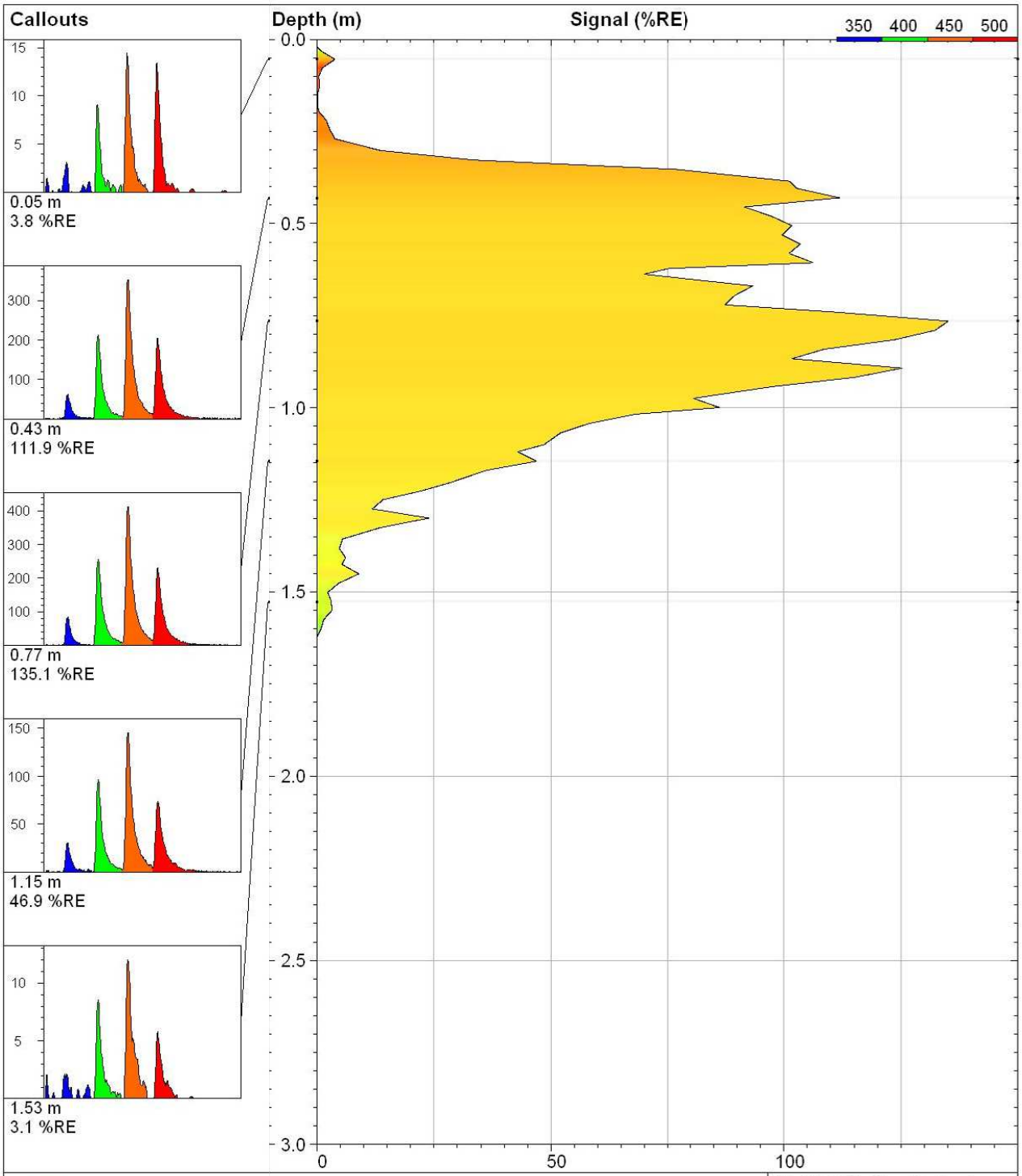
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.70 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **59.8 %RE @ 1.54 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 13:32 FLEST**



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LIF_037

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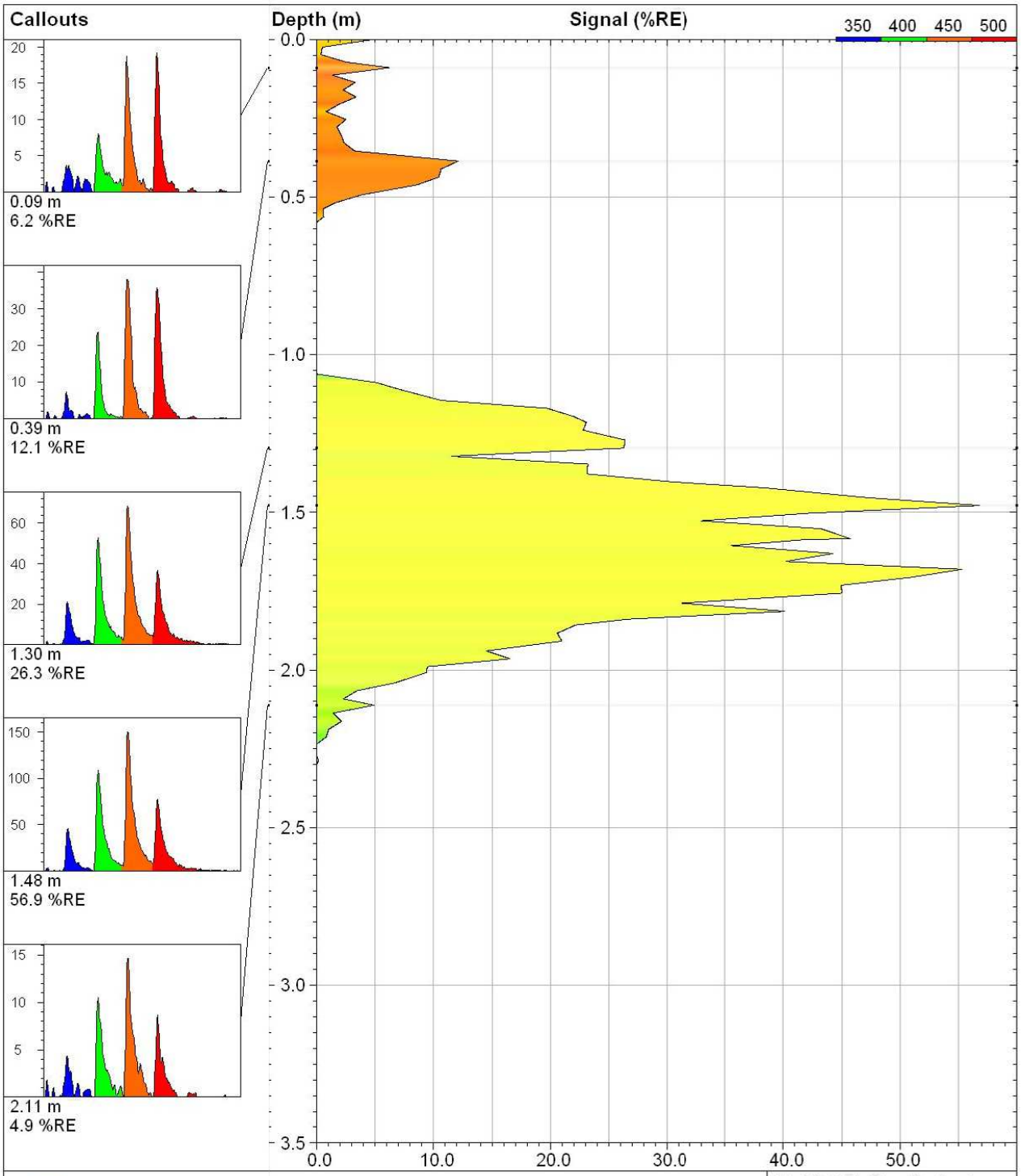
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.62 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **135.1 %RE @ 0.76 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 14:00 FLEST**



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LIF_038

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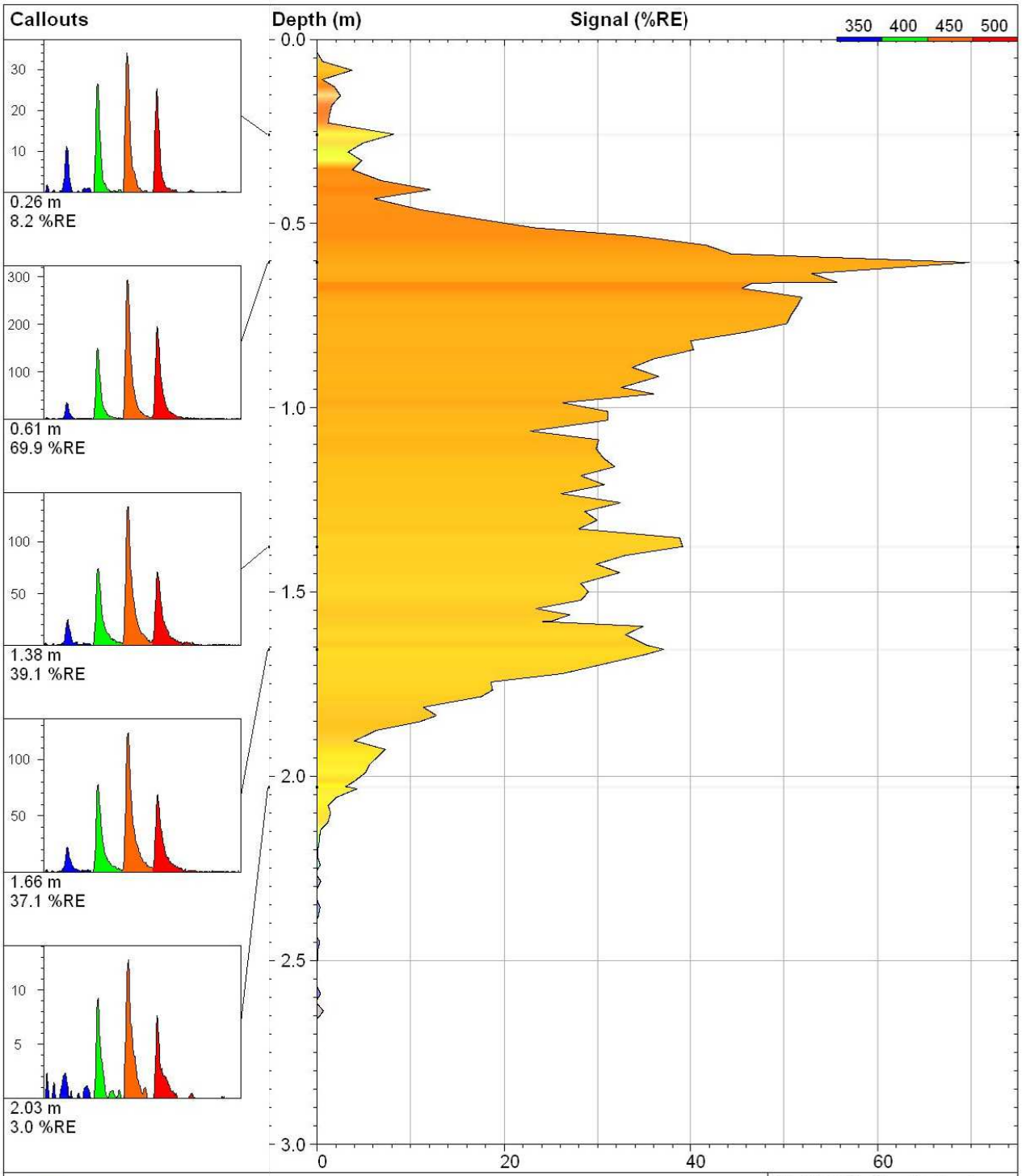
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.37 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **56.9 %RE @ 1.48 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 14:27 FLEST**



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LIF_039

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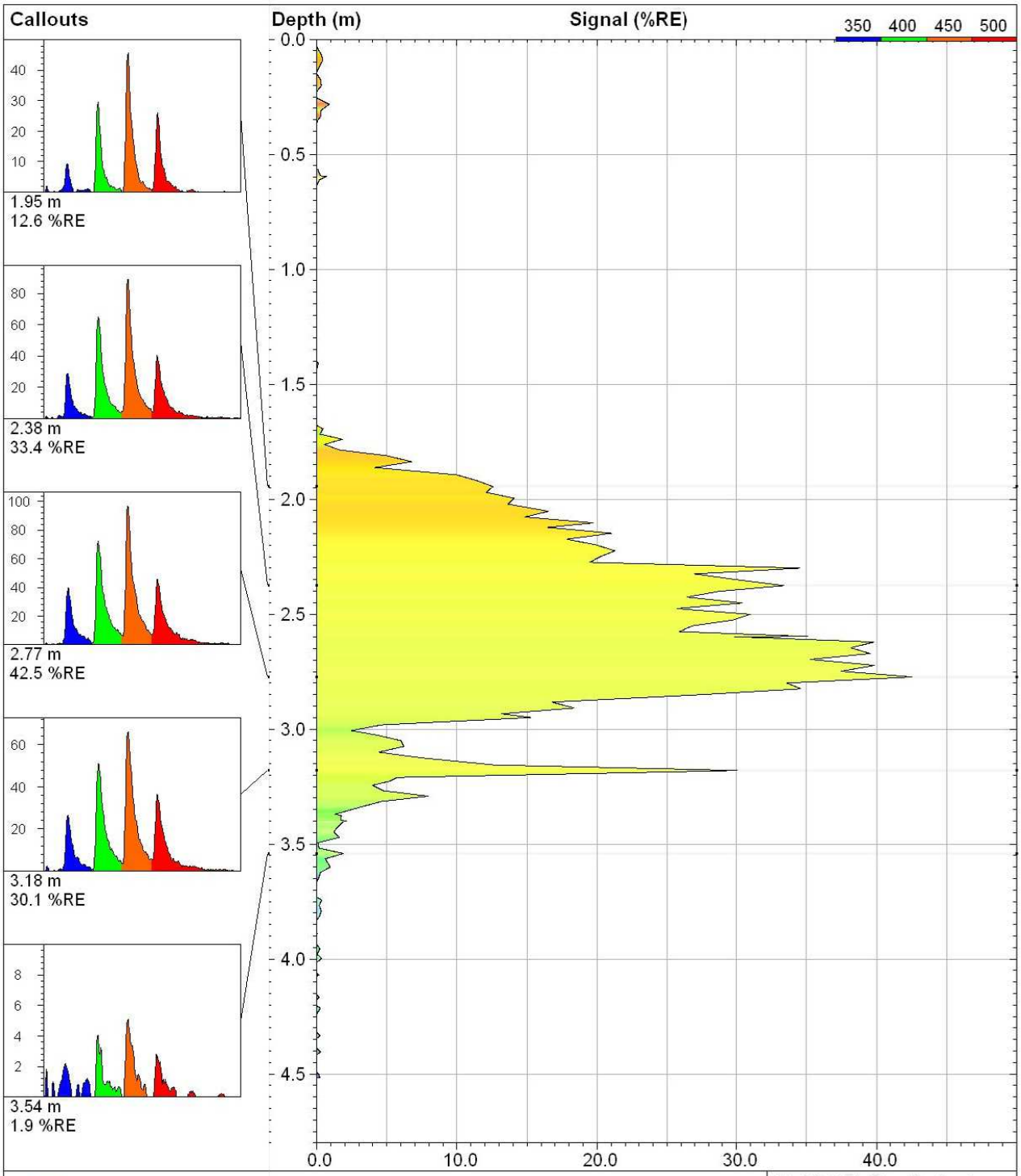
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.66 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **69.9 %RE @ 0.61 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 14:53 FLEST**



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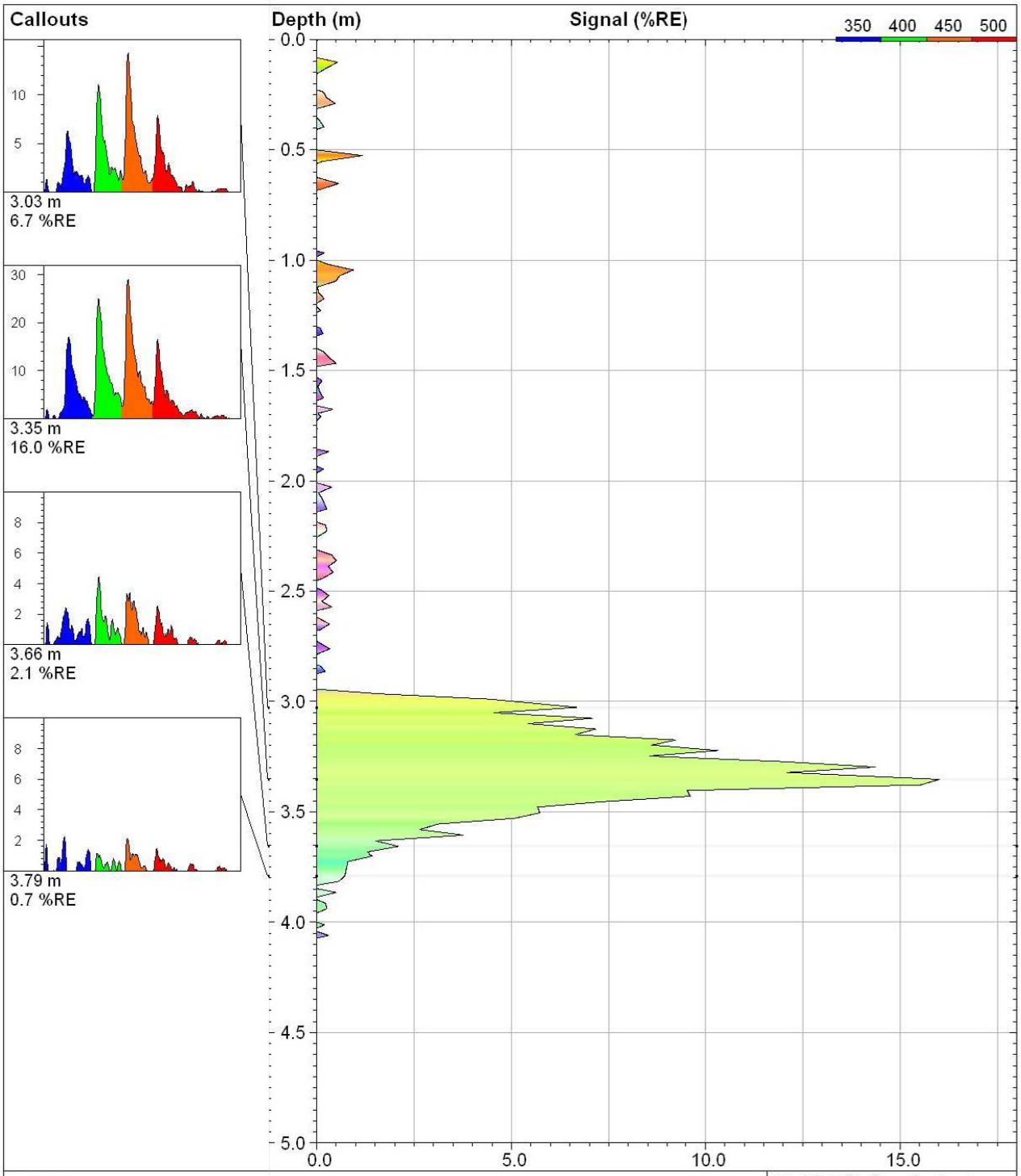
LIF_040		UVOST By Dakota www.DakotaTechnologies.com
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.52 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **42.5 %RE @ 2.77 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 15:38 FLEST**



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LIF_041

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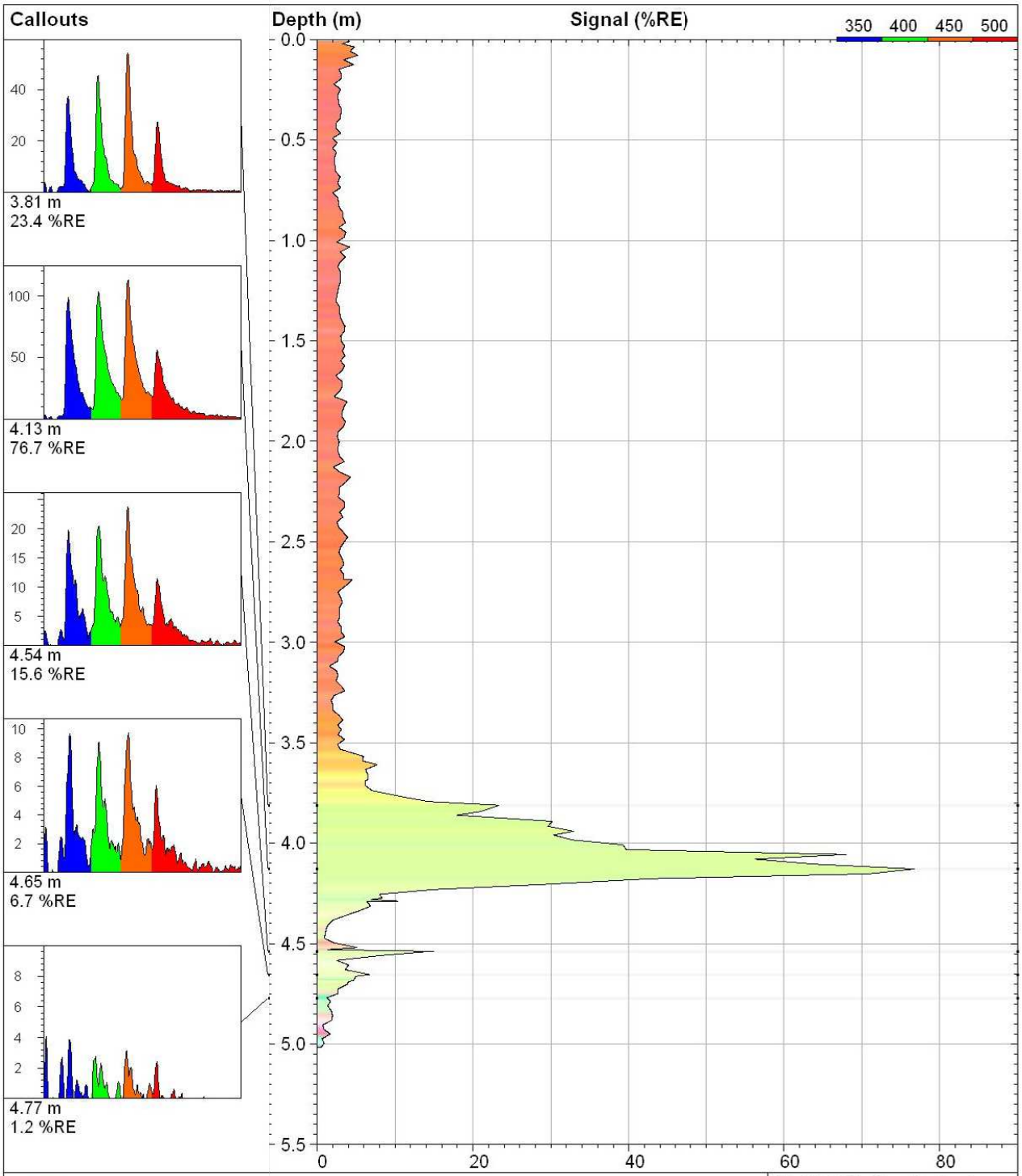
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.73 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.0 %RE @ 3.35 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-28 16:16 FLEST**



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LIF_042

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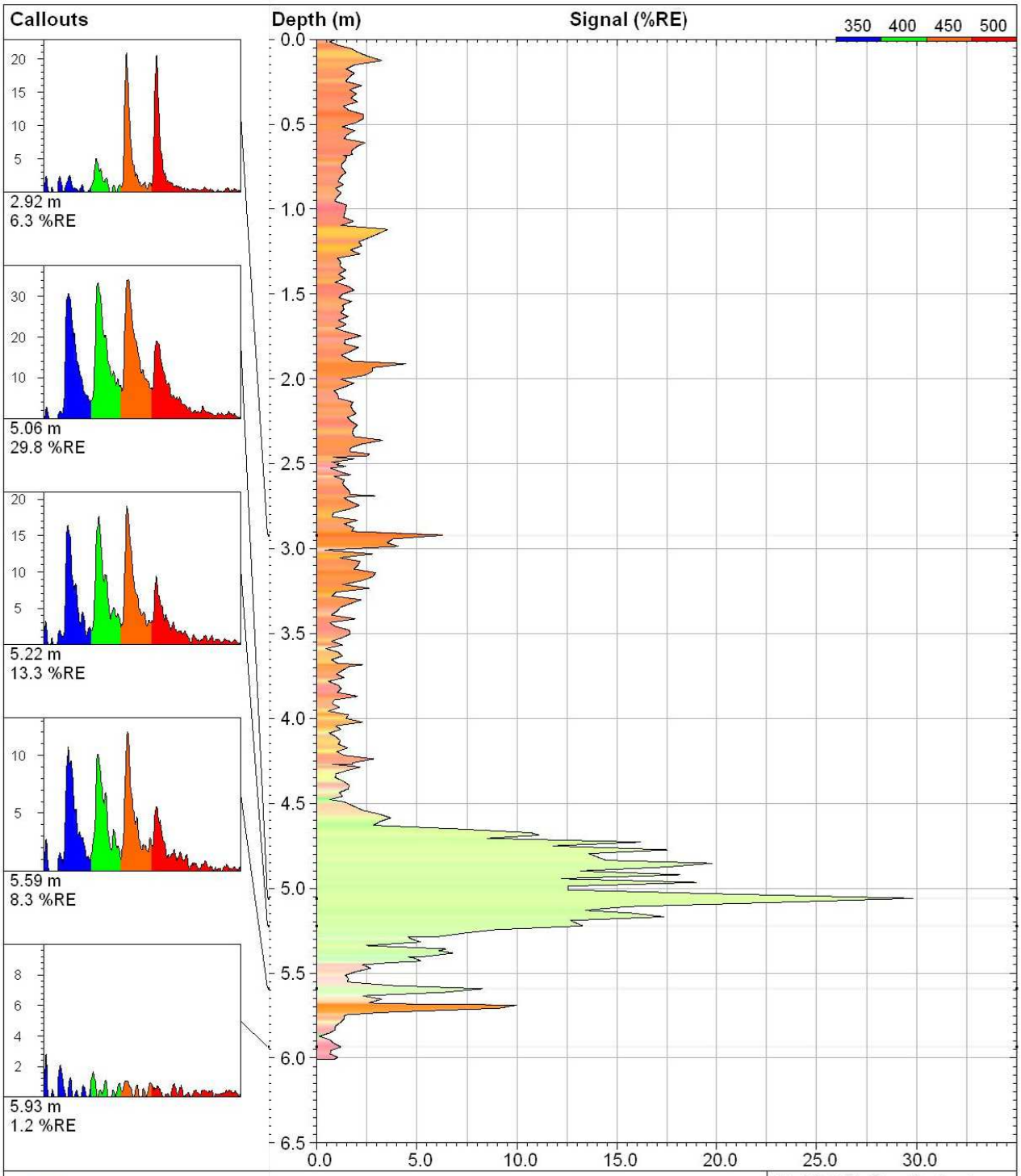
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.02 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **76.7 %RE @ 4.13 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 09:46 FLEST**



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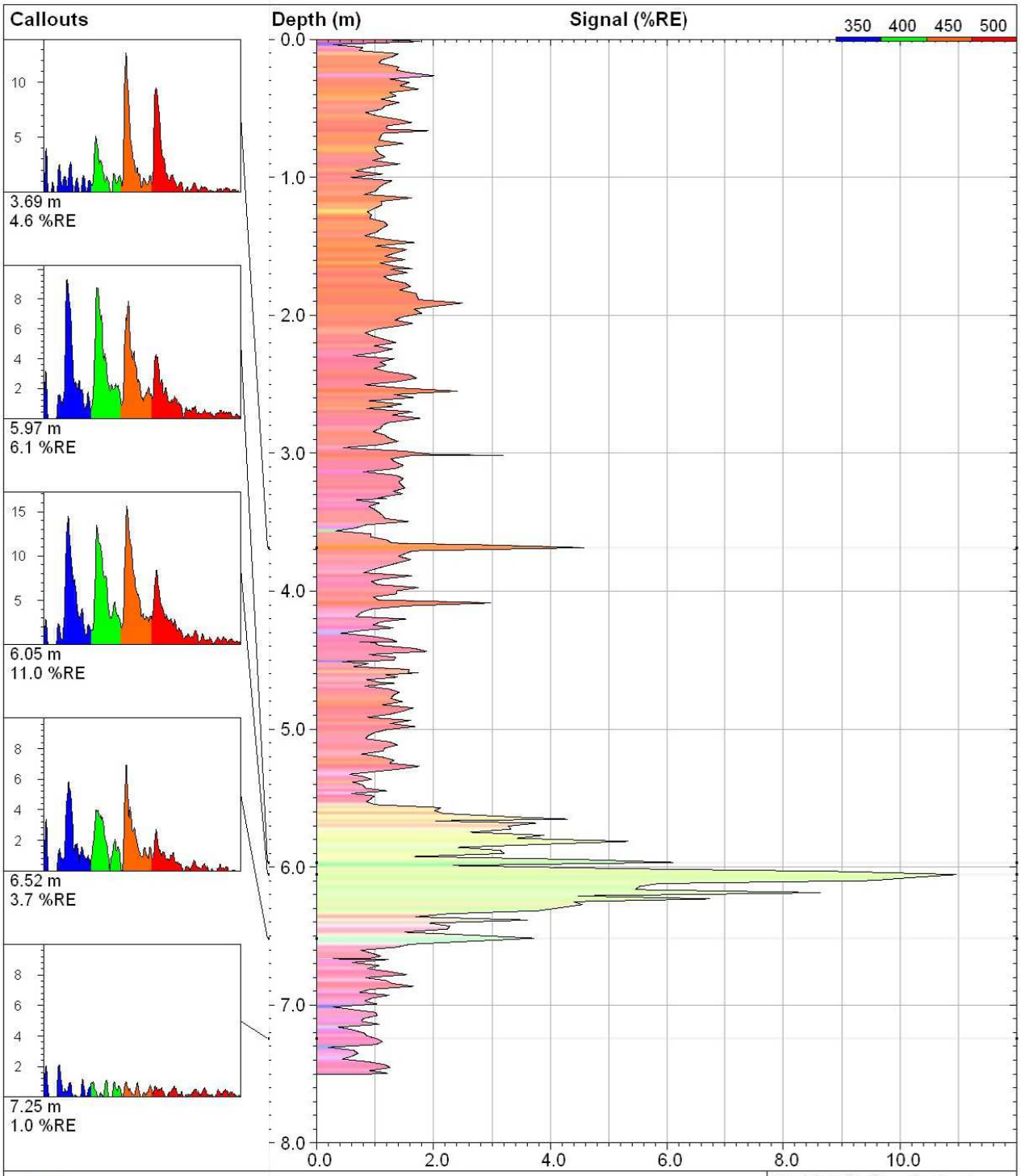
LIF_043		UVOST By Dakota www.DakotaTechnologies.com
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.01 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **29.8 %RE @ 5.06 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 10:08 FLEST**



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LIF_044

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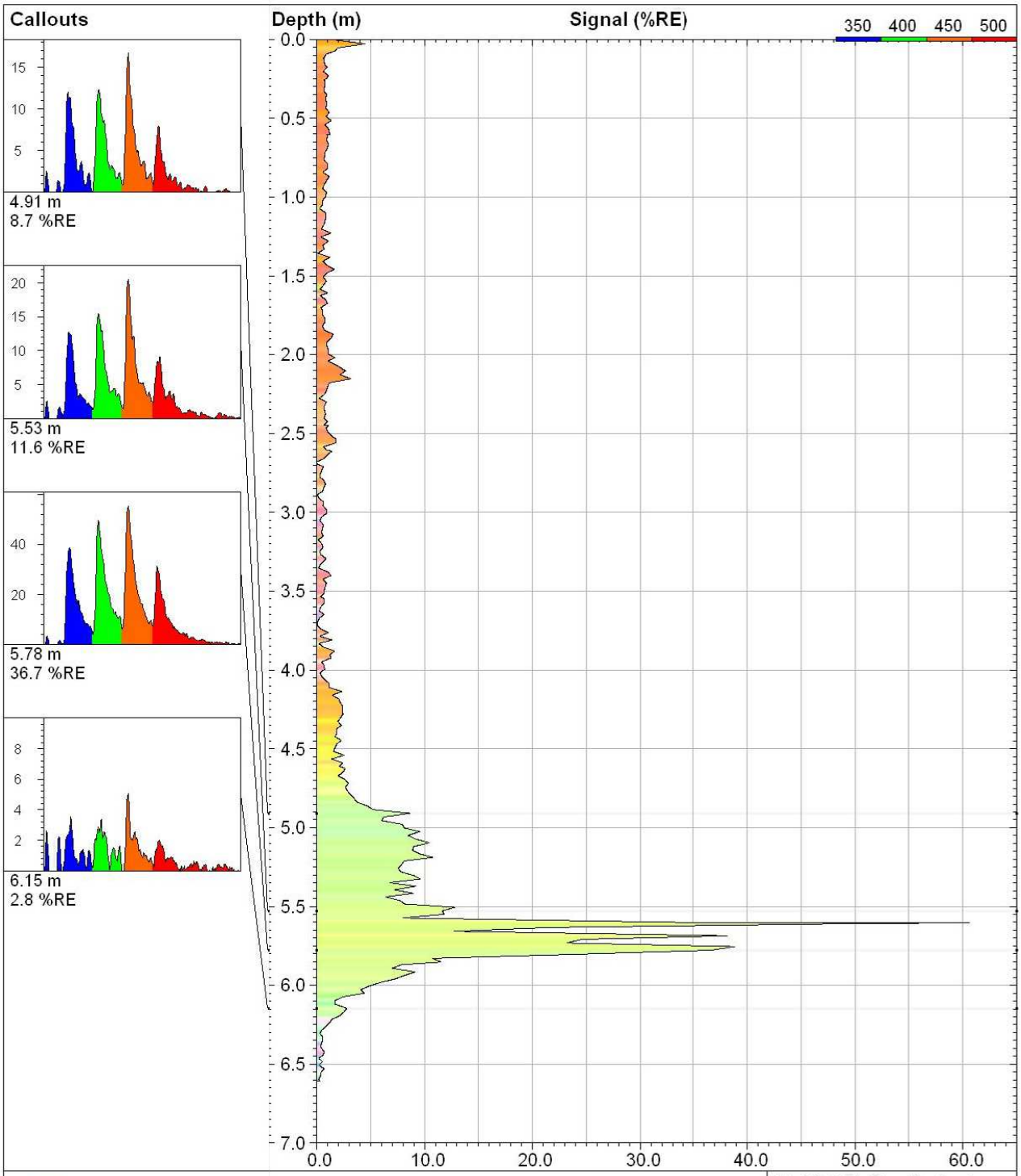
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.50 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **11.0 %RE @ 6.05 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 10:45 FLEST**



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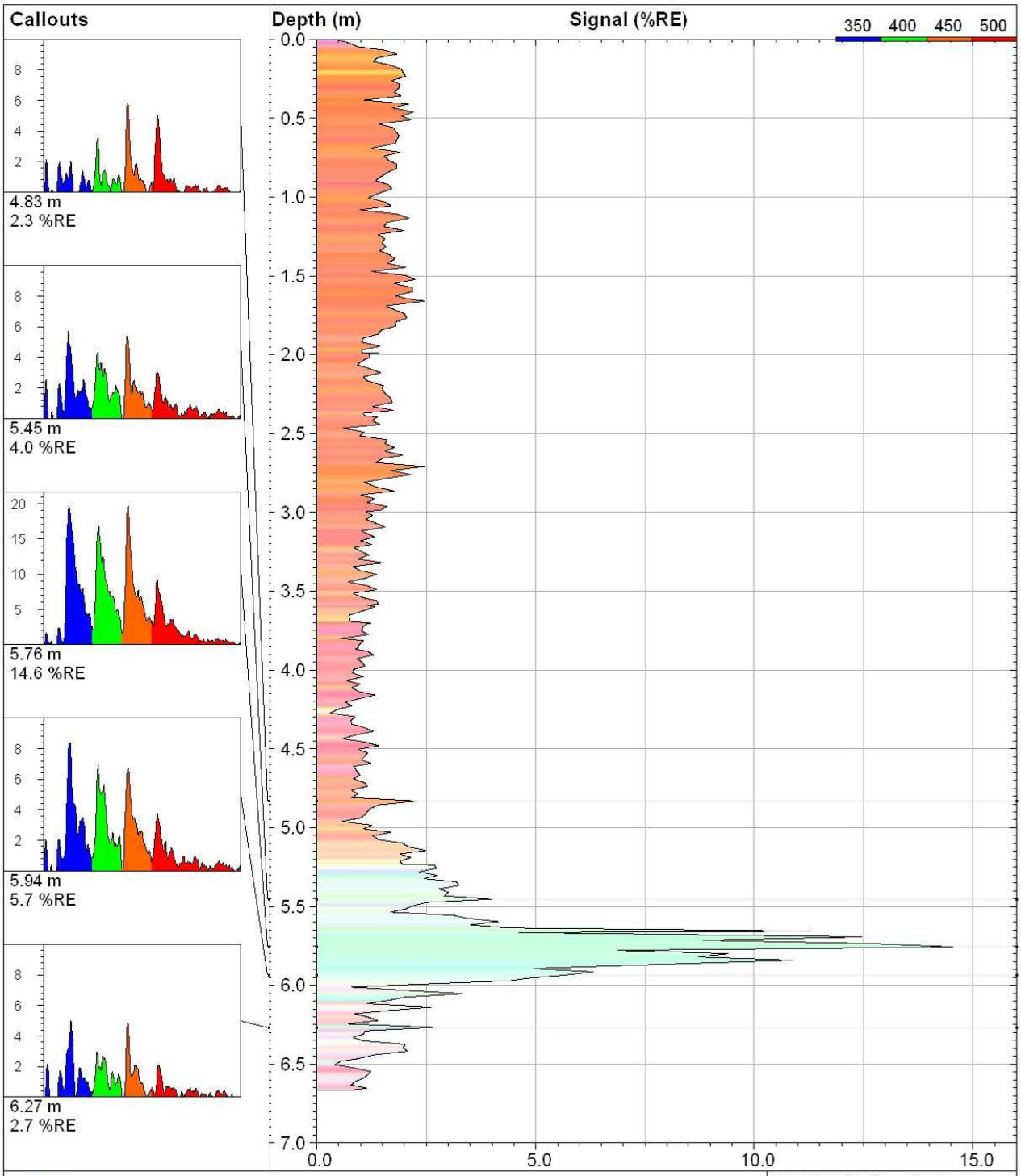
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.61 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **61.4 %RE @ 5.60 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 11:34 FLEST**



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LIF_046

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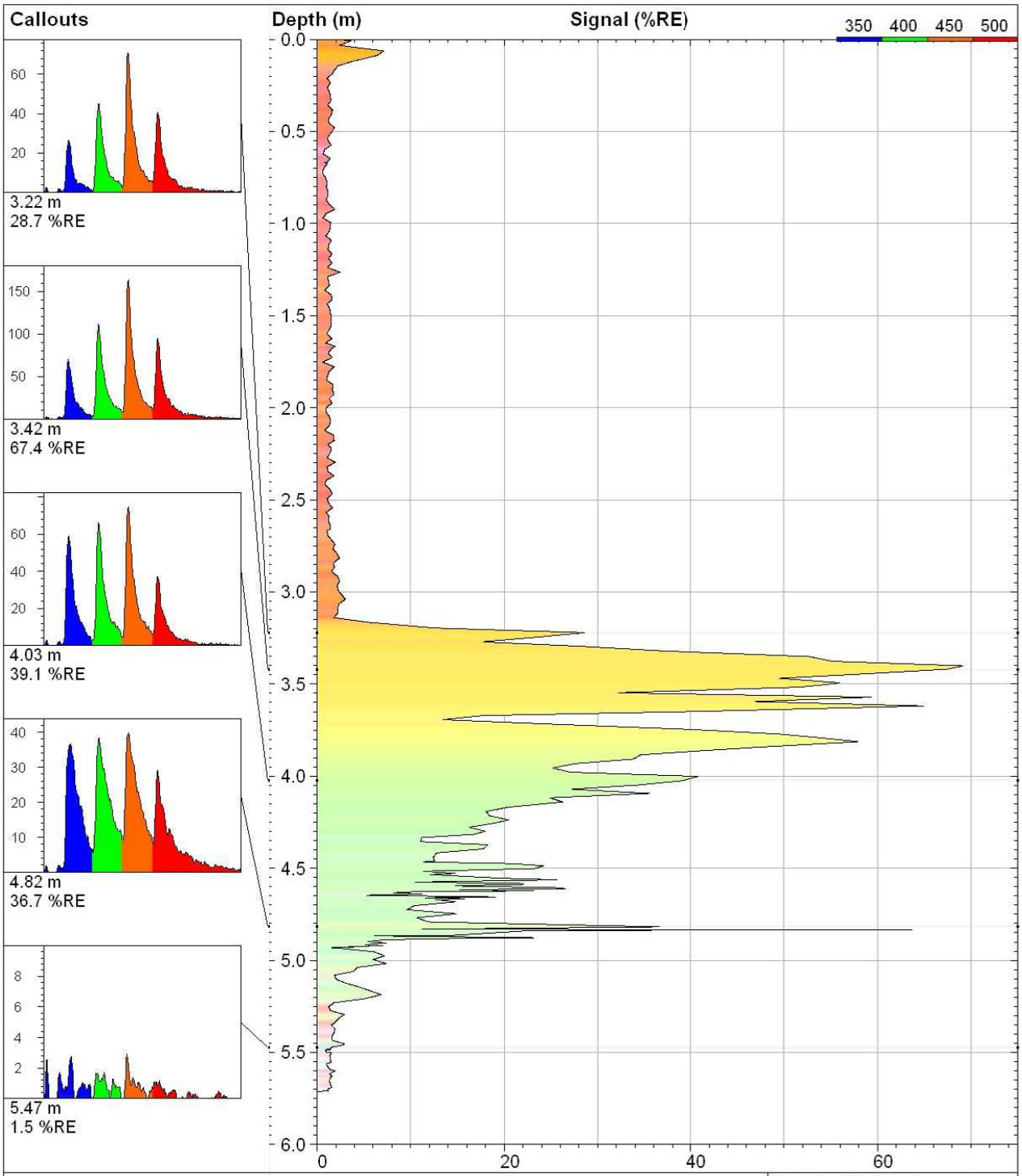
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.67 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **14.6 %RE @ 5.76 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 12:55 FLEST**



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LIF_047

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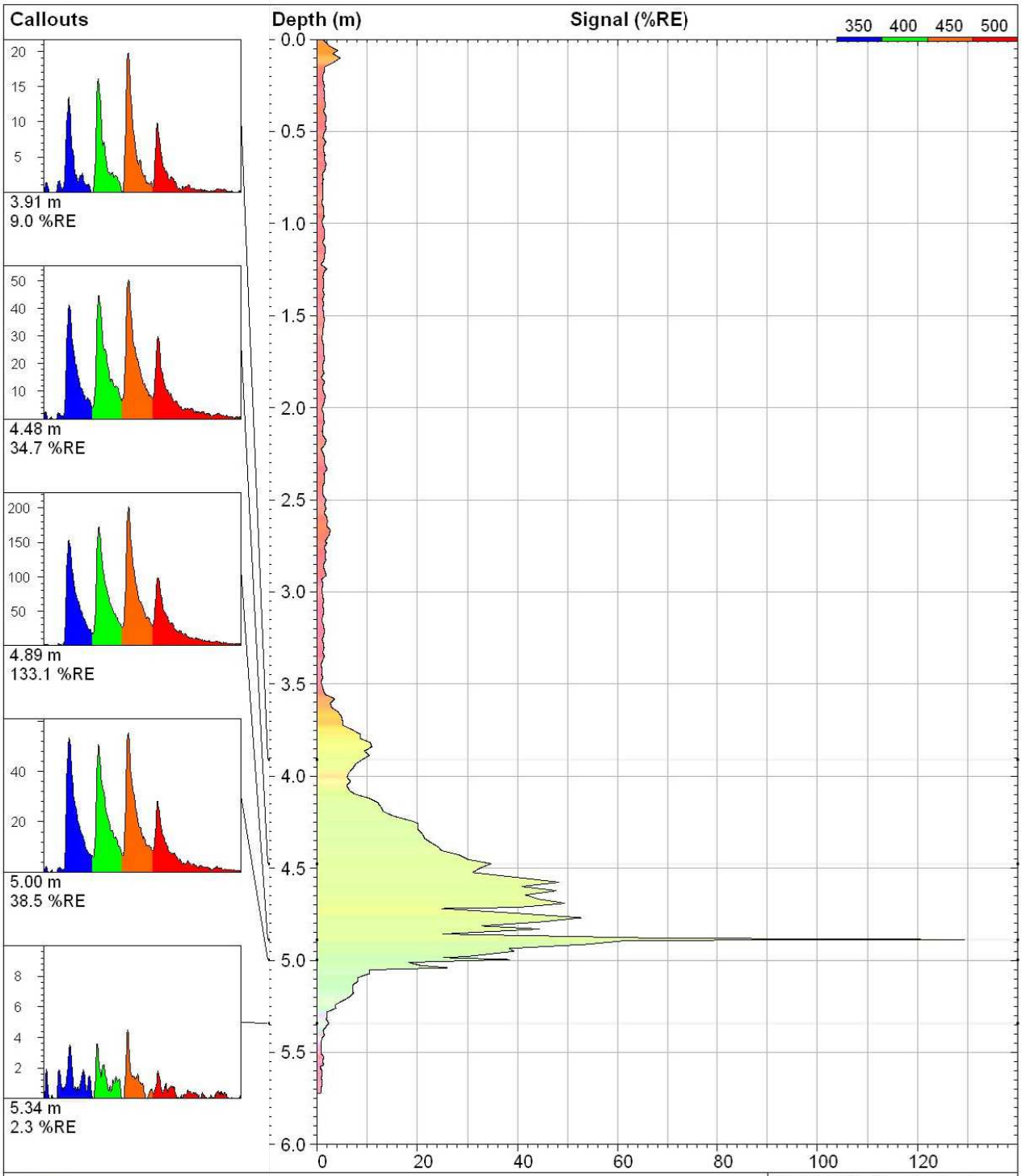
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.71 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **69.2 %RE @ 4.83 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 13:37 FLEST**



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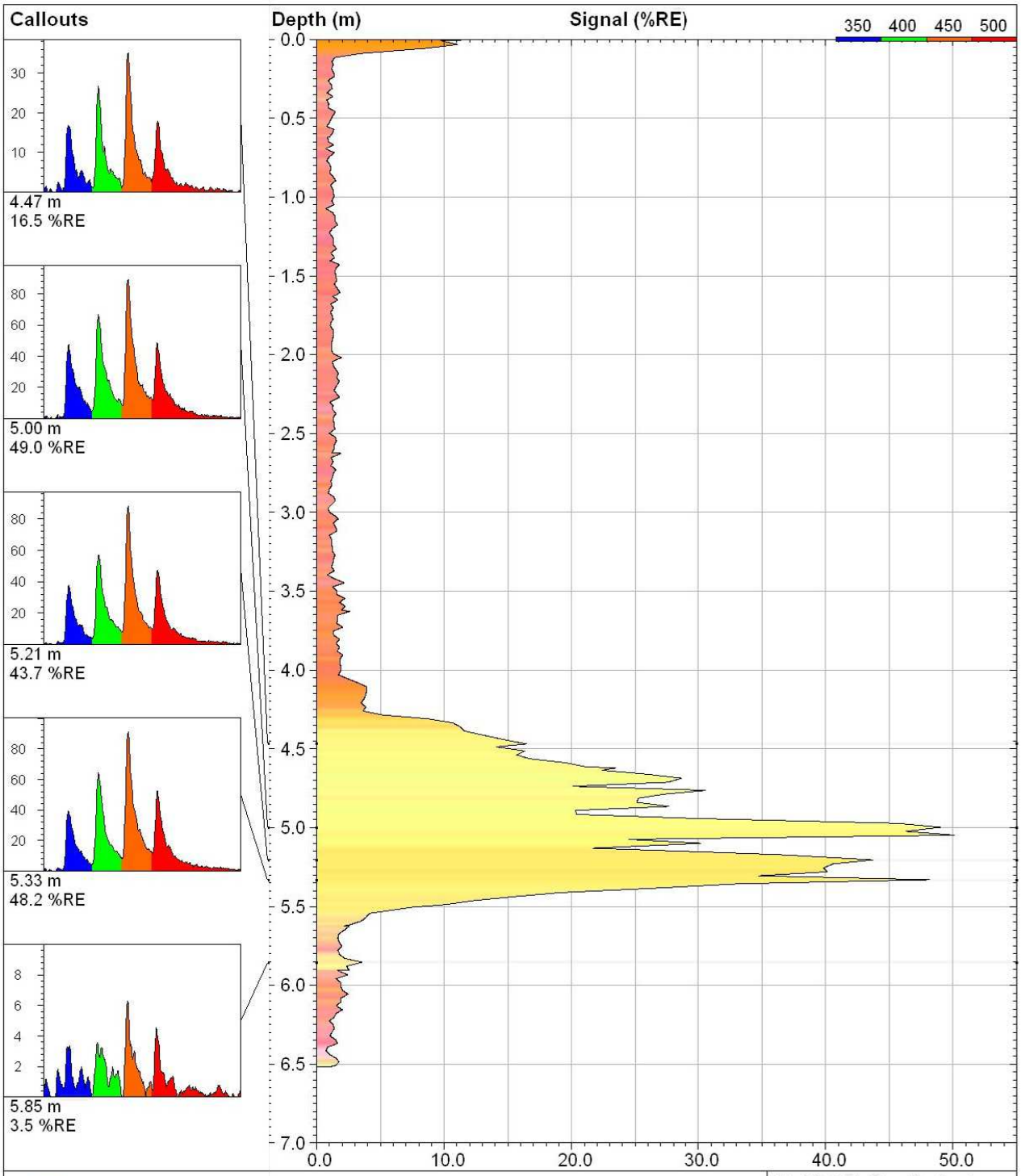
LIF_048		UVOST By Dakota www.DakotaTechnologies.com
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.72 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **133.1 %RE @ 4.89 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 14:19 FLEST**



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LIF_049_Pie ekas stura

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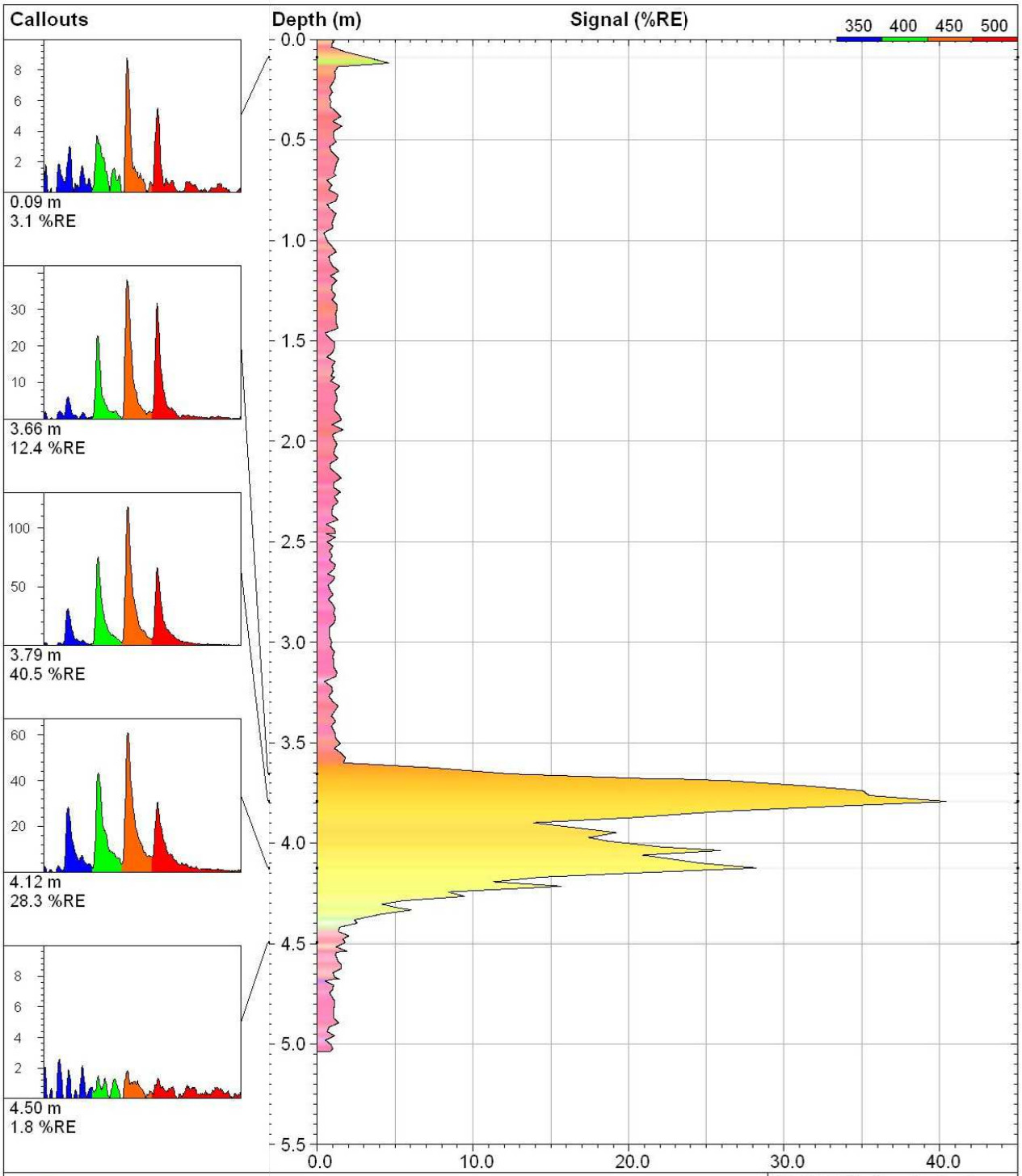
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.52 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **50.1 %RE @ 5.05 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 14:59 FLEST**



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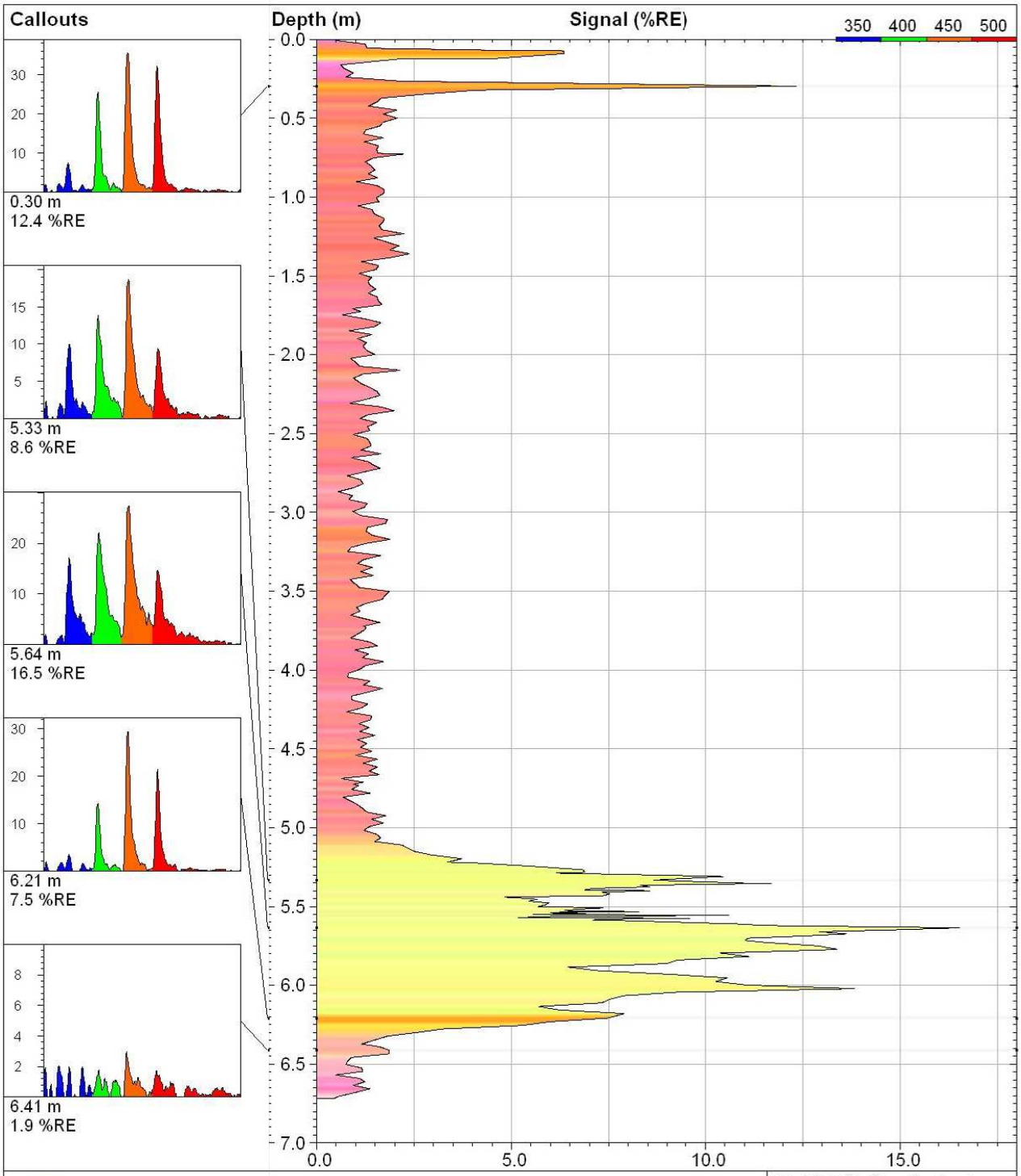
LIF_050		UVOST By Dakota www.DakotaTechnologies.com
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.04 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **40.5 %RE @ 3.79 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 15:33 FLEST**



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LIF_051

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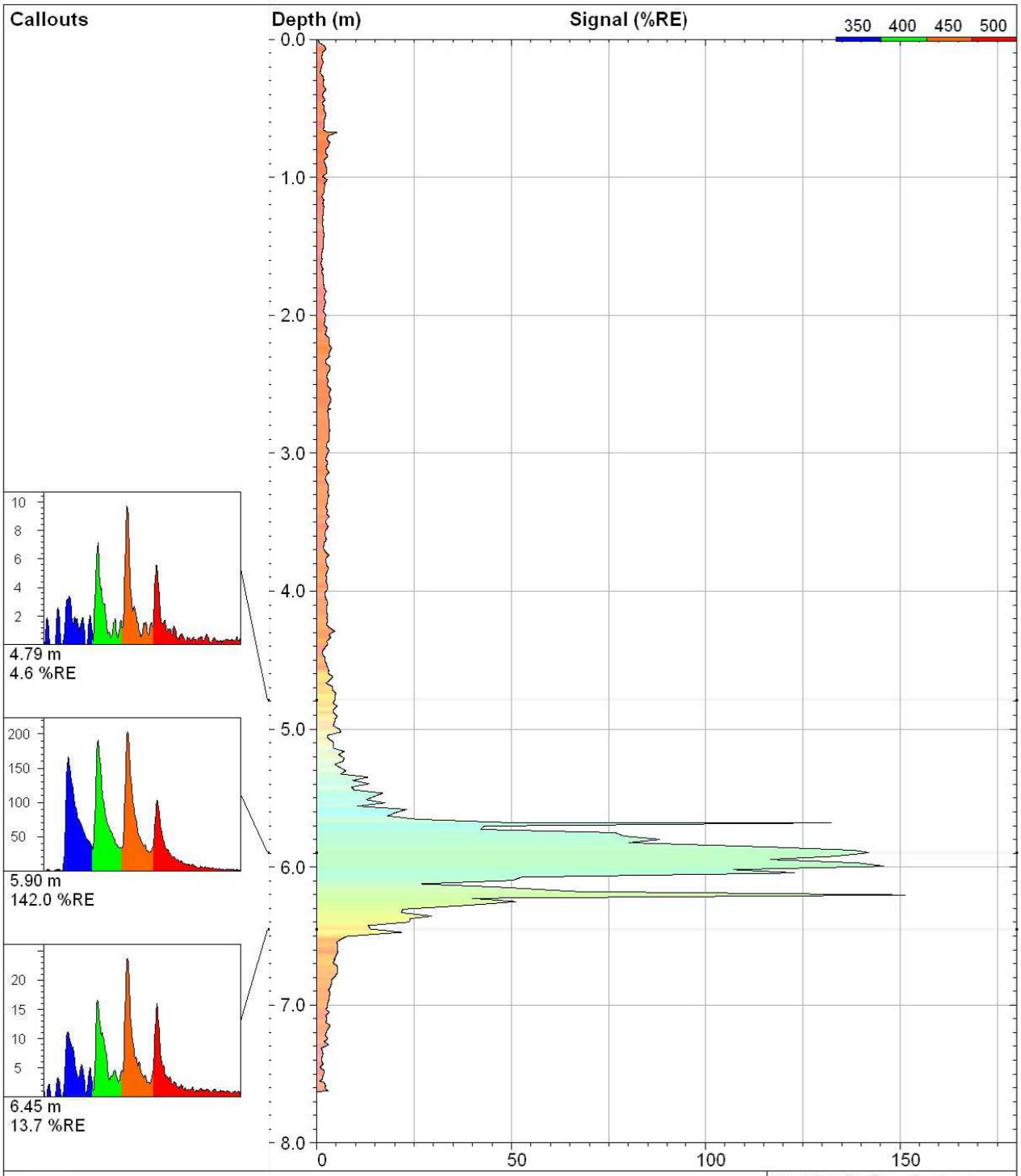
Site: **VNT**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.72 m**
Client / Job: **Udeka /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **16.5 %RE @ 5.64 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-29 16:24 FLEST**



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LIF_052

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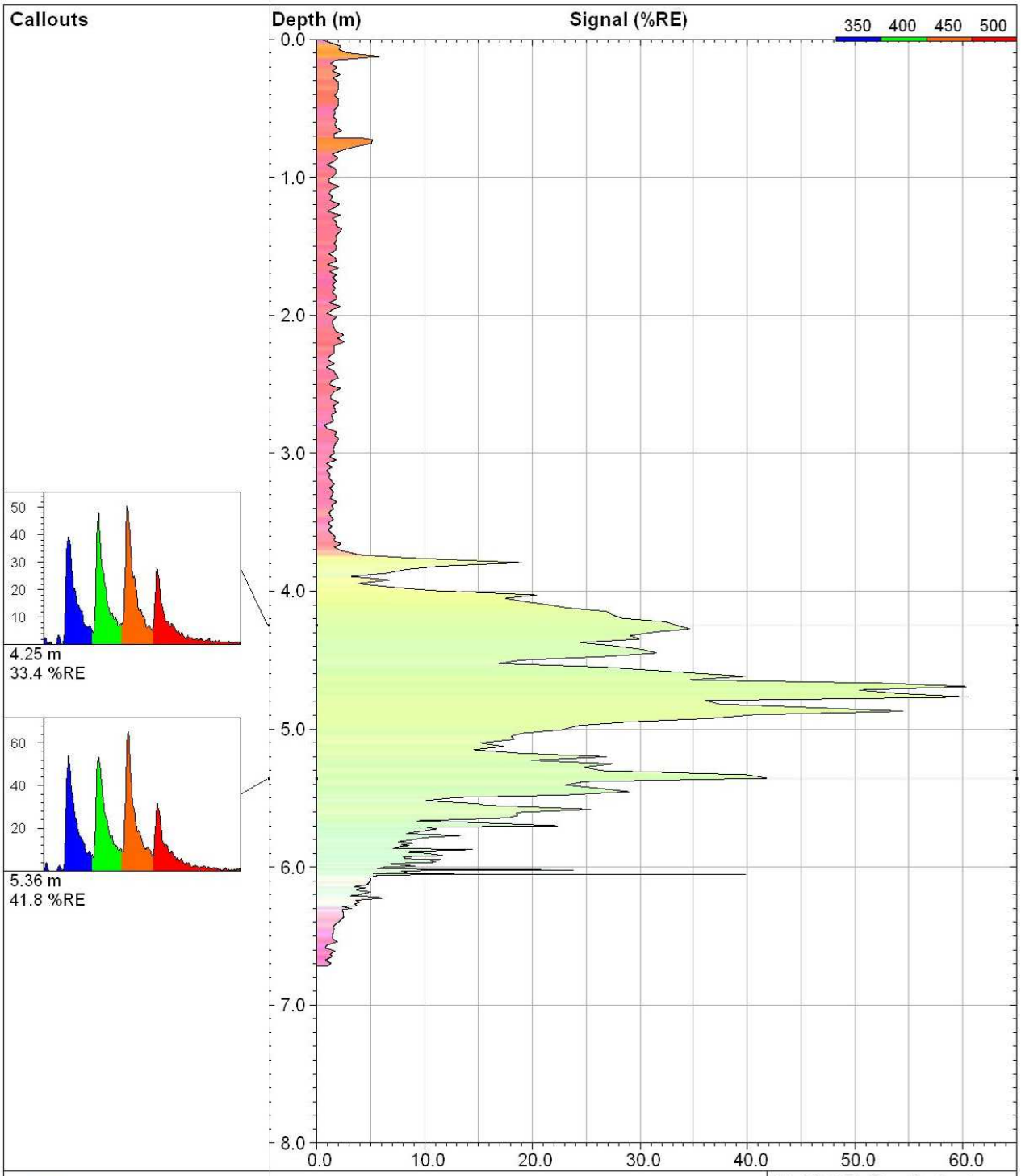
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.63 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **152.4 %RE @ 6.20 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-30 09:35 FLEST**



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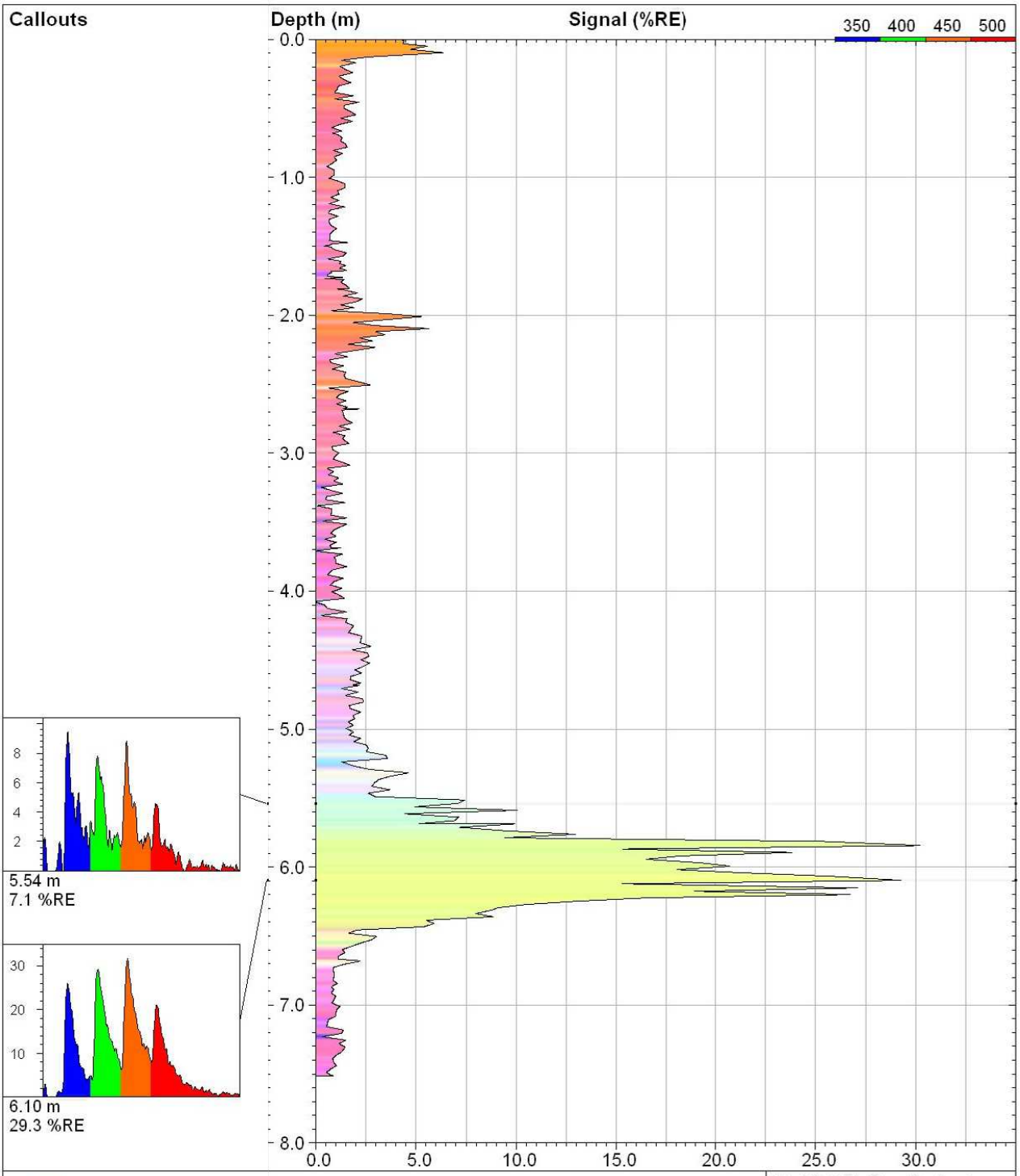
LIF_053		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.72 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **60.6 %RE @ 4.77 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-30 09:57 FLEST**



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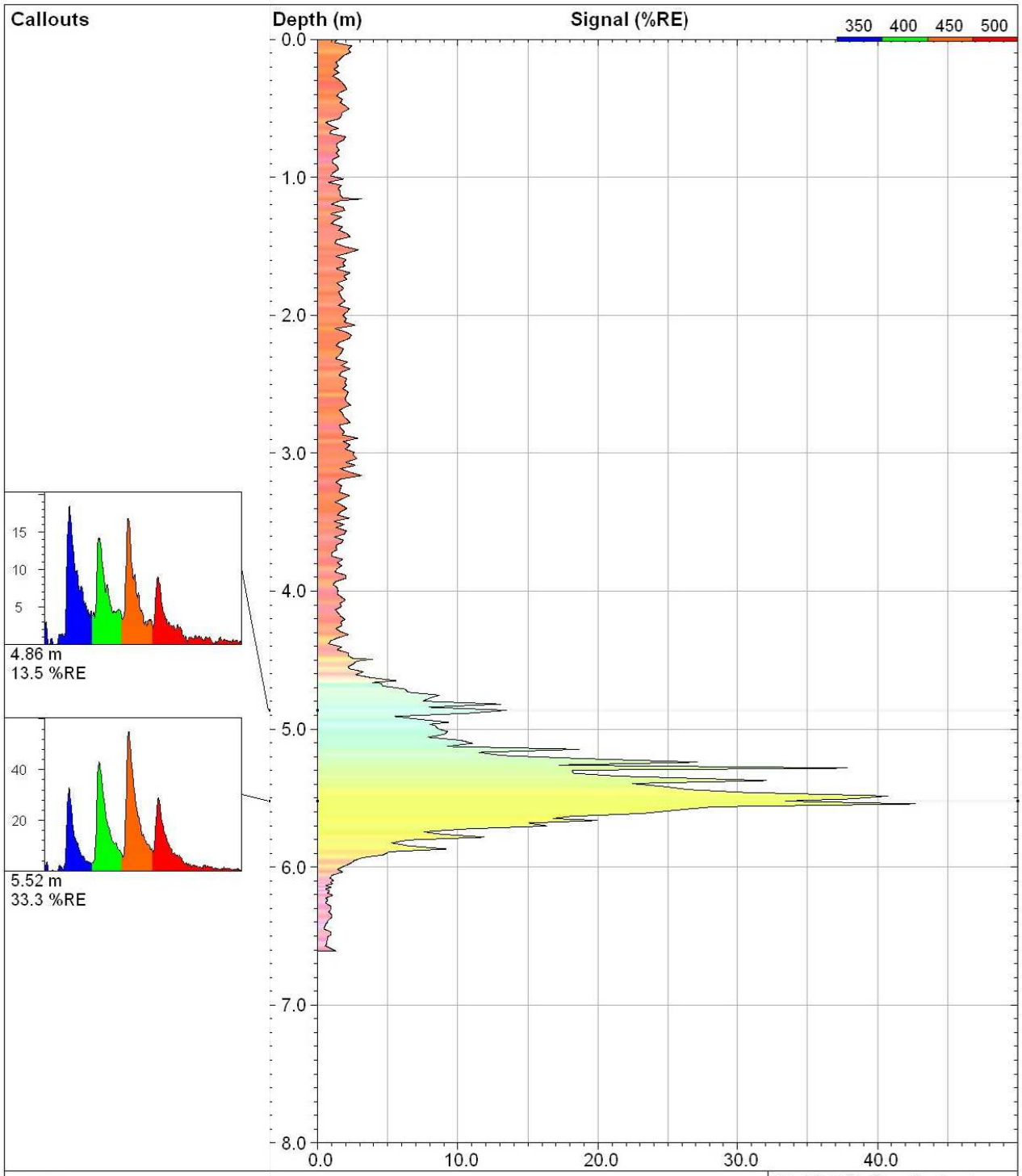
LIF_054		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.51 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **30.3 %RE @ 5.84 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-30 10:42 FLEST**



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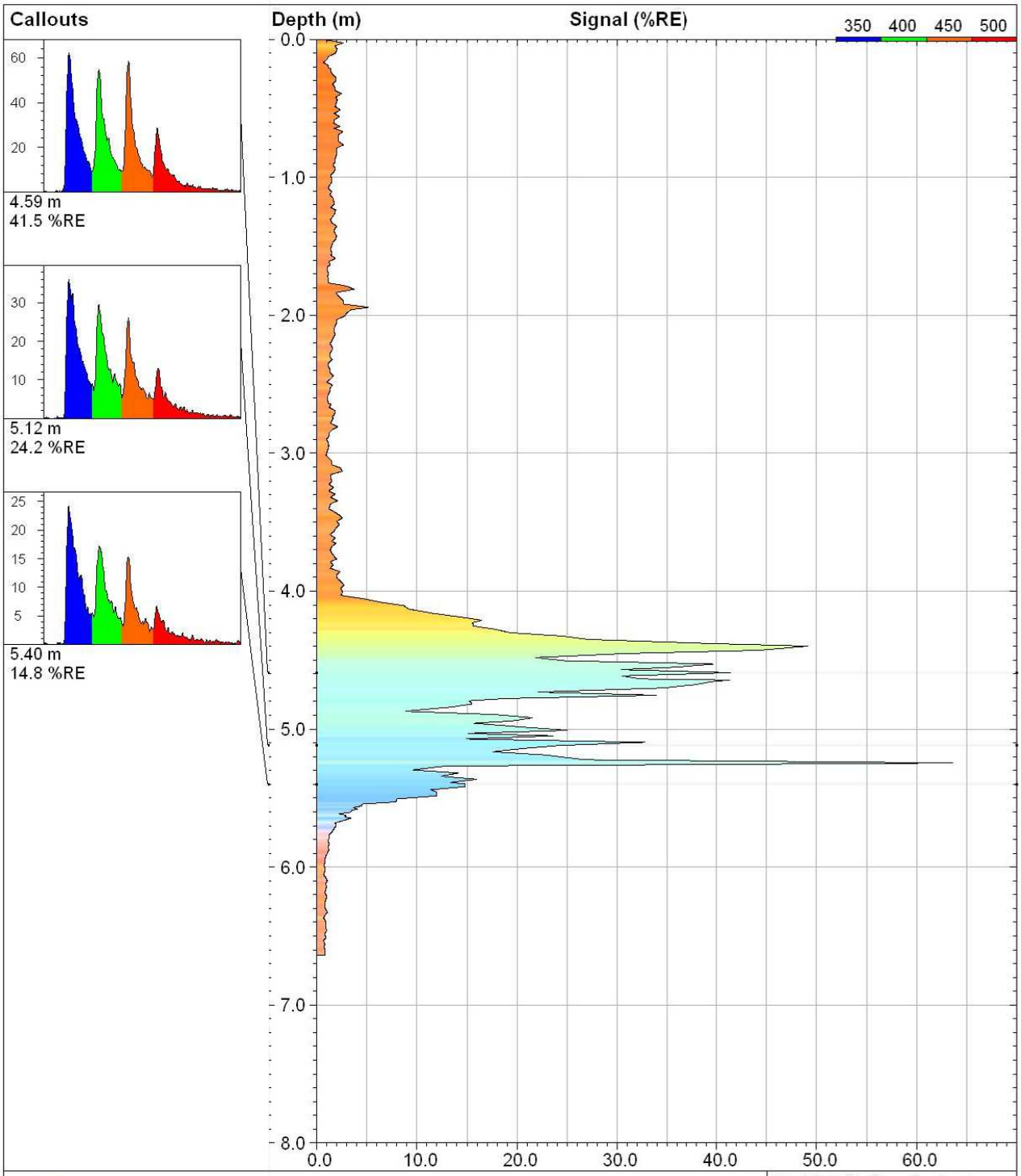
LIF_055		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.61 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **42.7 %RE @ 5.54 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-10-30 11:20 FLEST**



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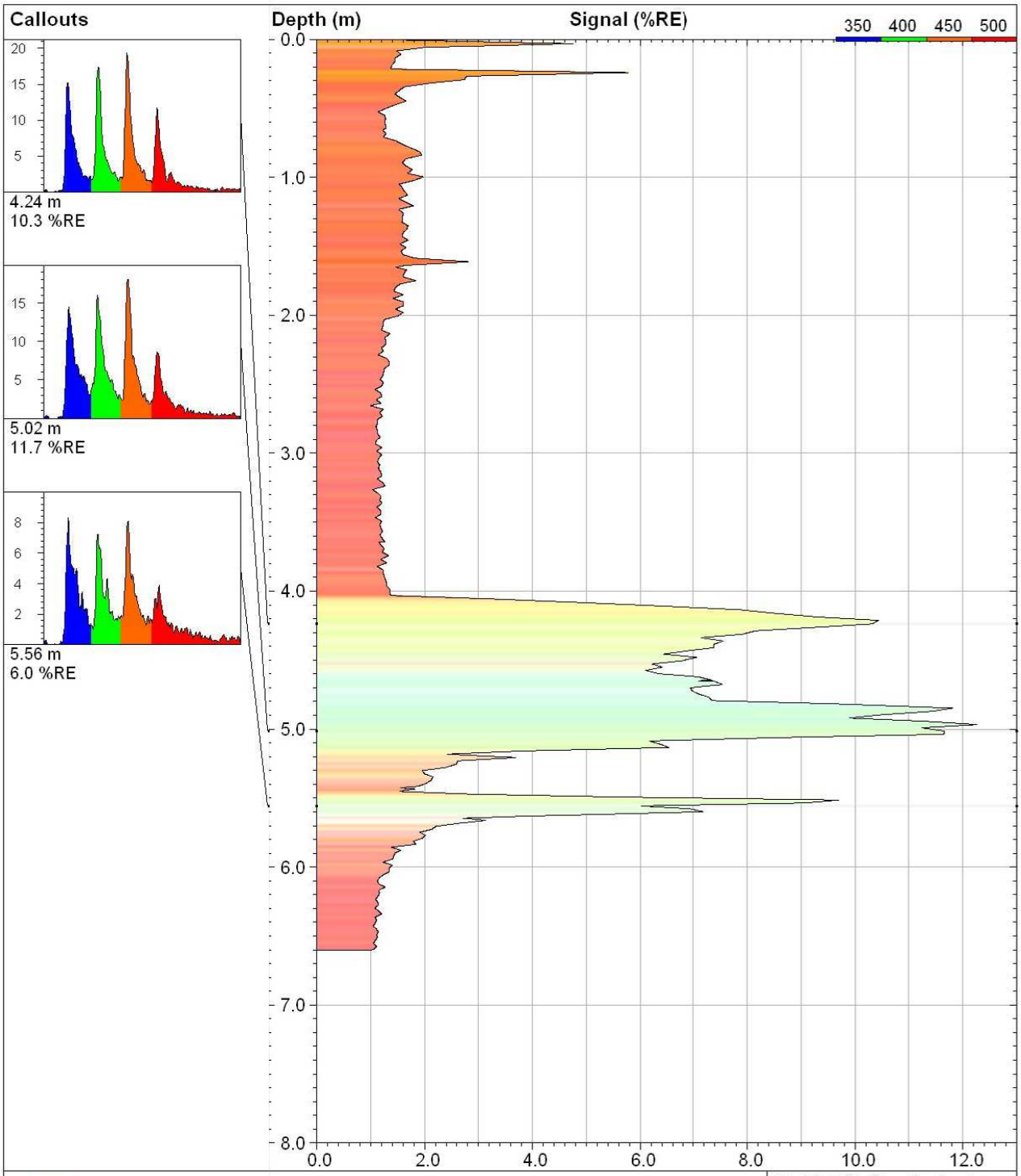
LIF_056		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.64 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **63.9 %RE @ 5.25 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-03 10:35 FLEST**



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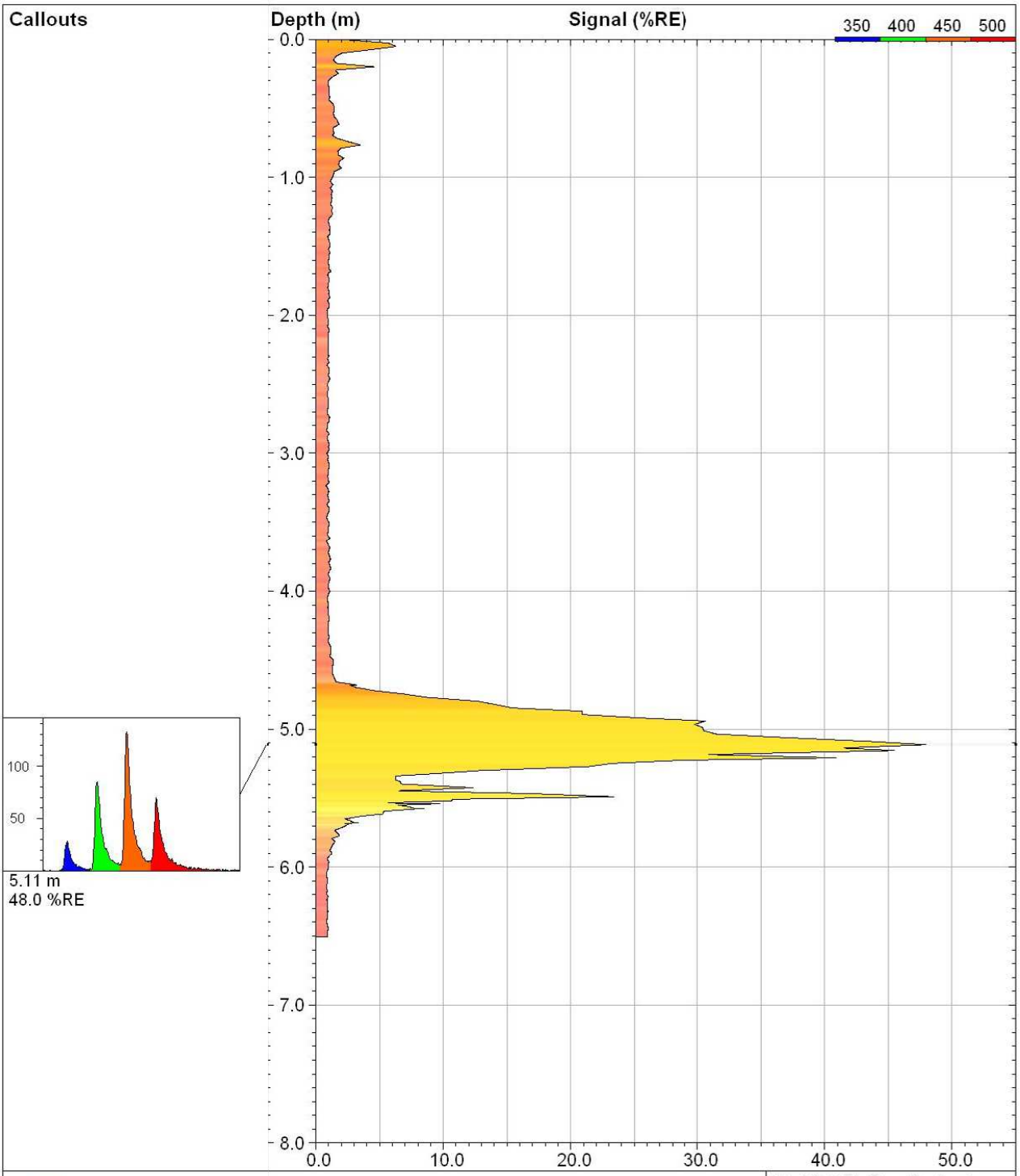
LIF_057		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.60 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **12.3 %RE @ 4.97 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-03 11:04 FLEST**



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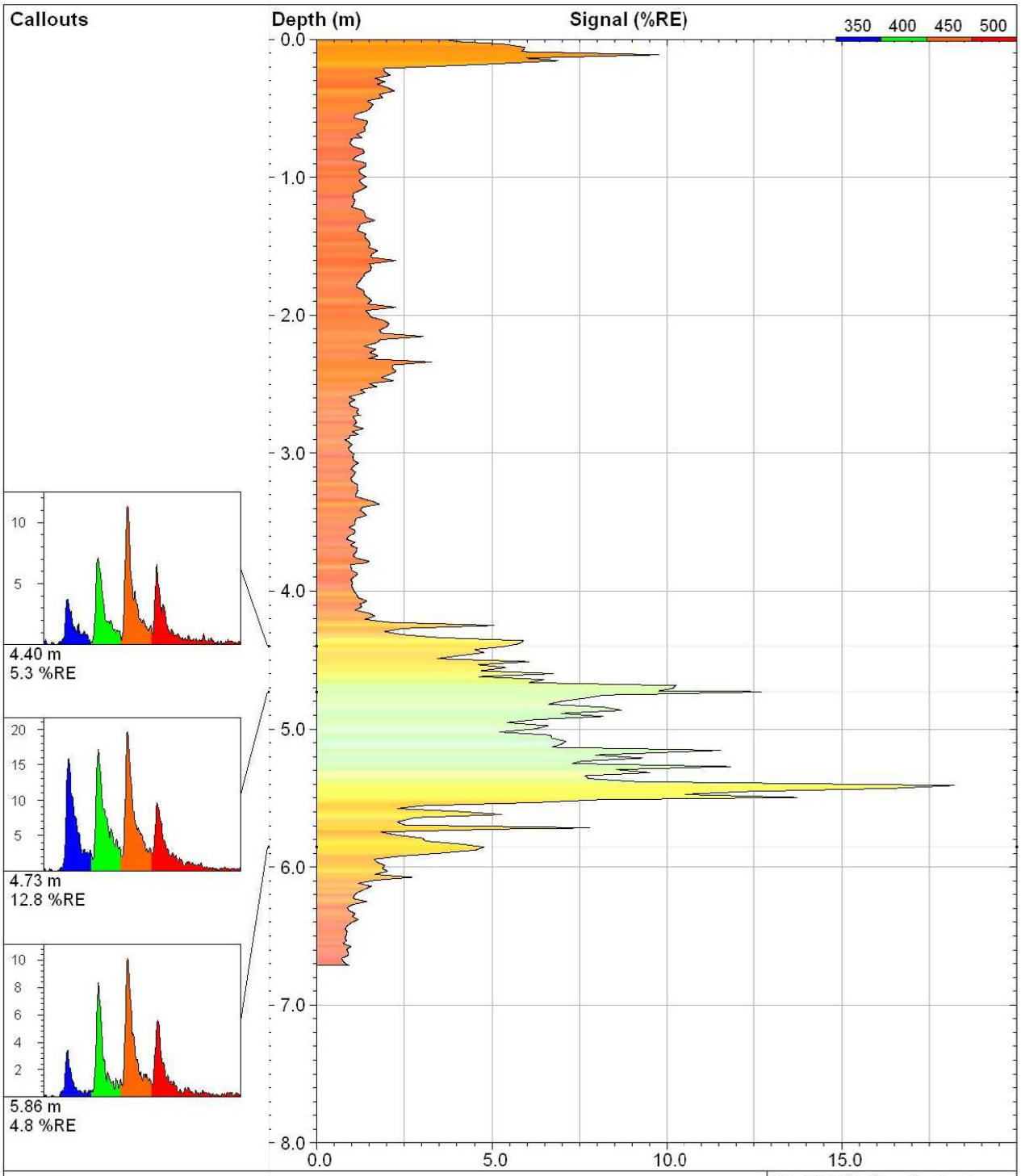
LIF_058		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.51 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **48.0 %RE @ 5.11 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-03 16:01 FLEST**



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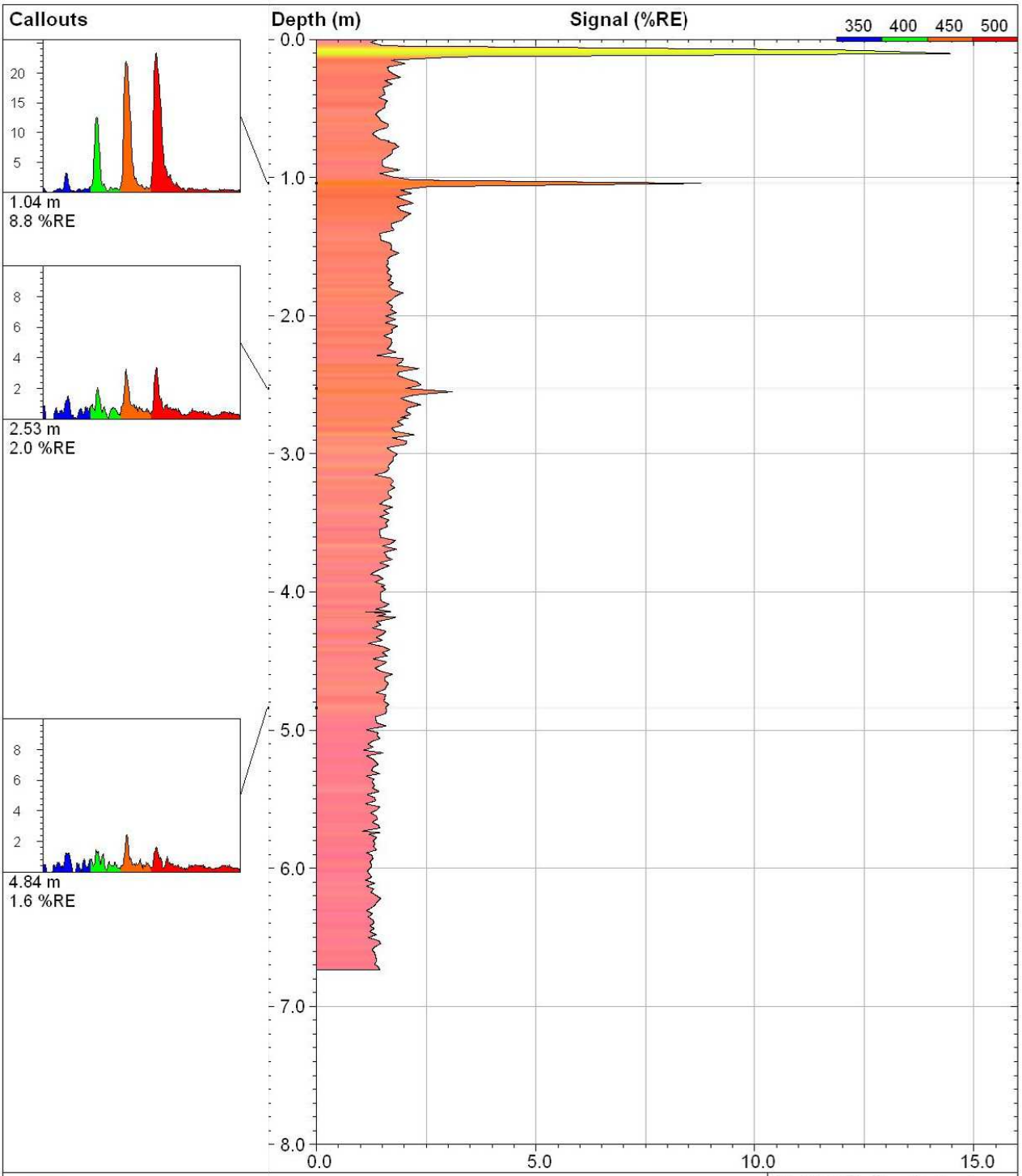
LIF_059		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.71 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **18.2 %RE @ 5.41 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-03 15:32 FLEST**



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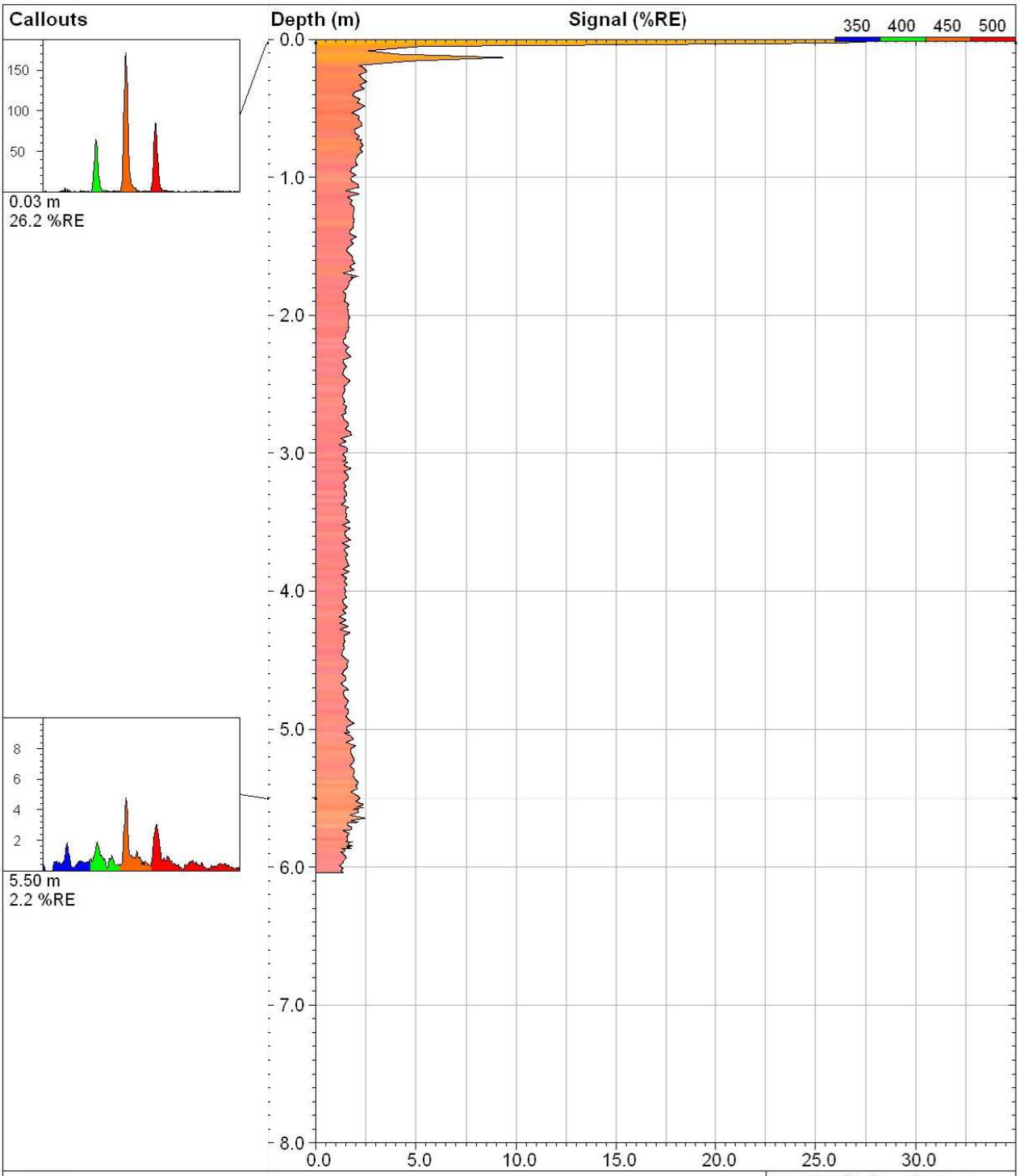
LIF_060		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.74 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **14.5 %RE @ 0.10 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-04 10:55 FLEST**



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LIF_061

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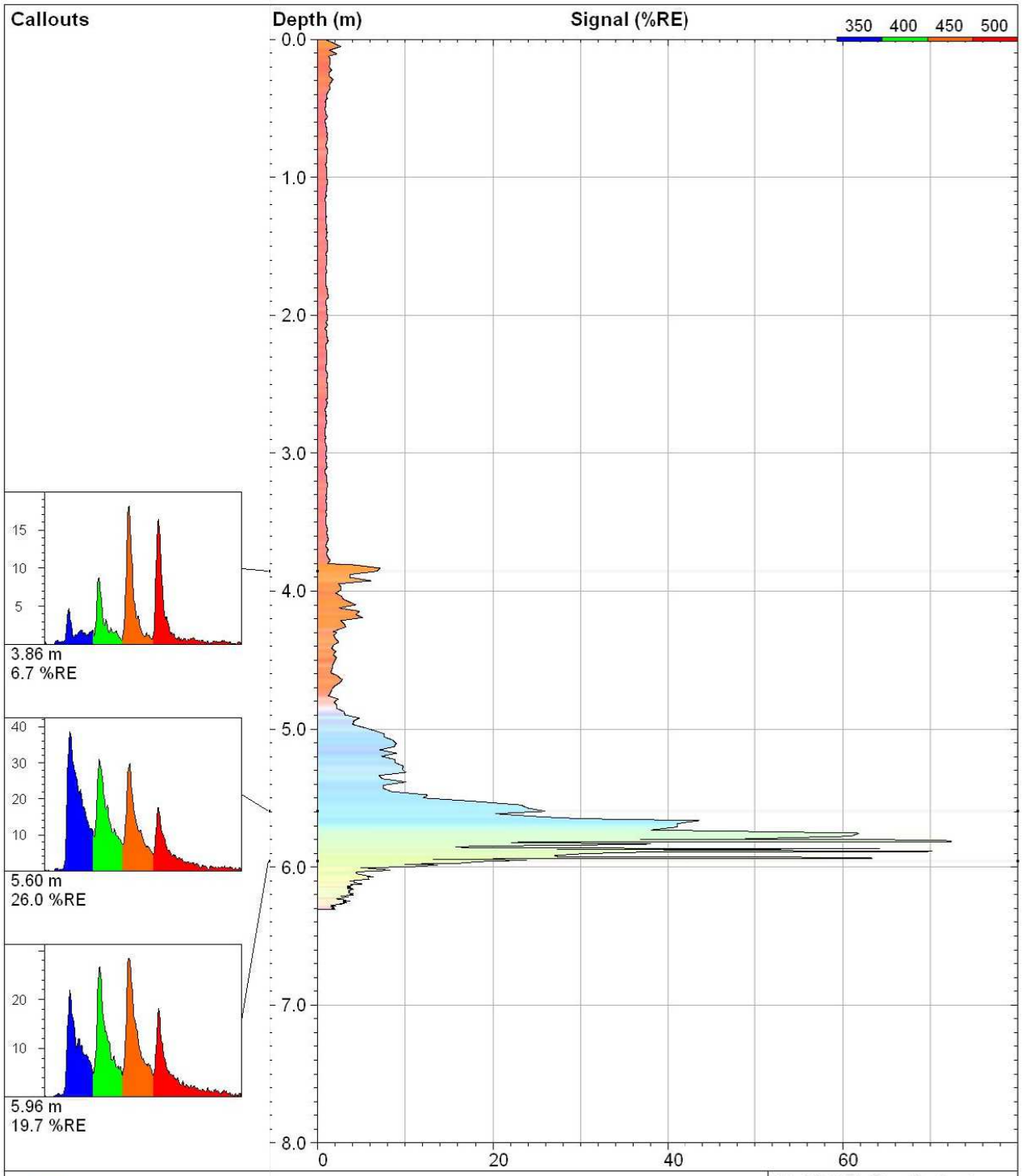
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.04 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **29.9 %RE @ 0.00 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-04 11:29 FLEST**



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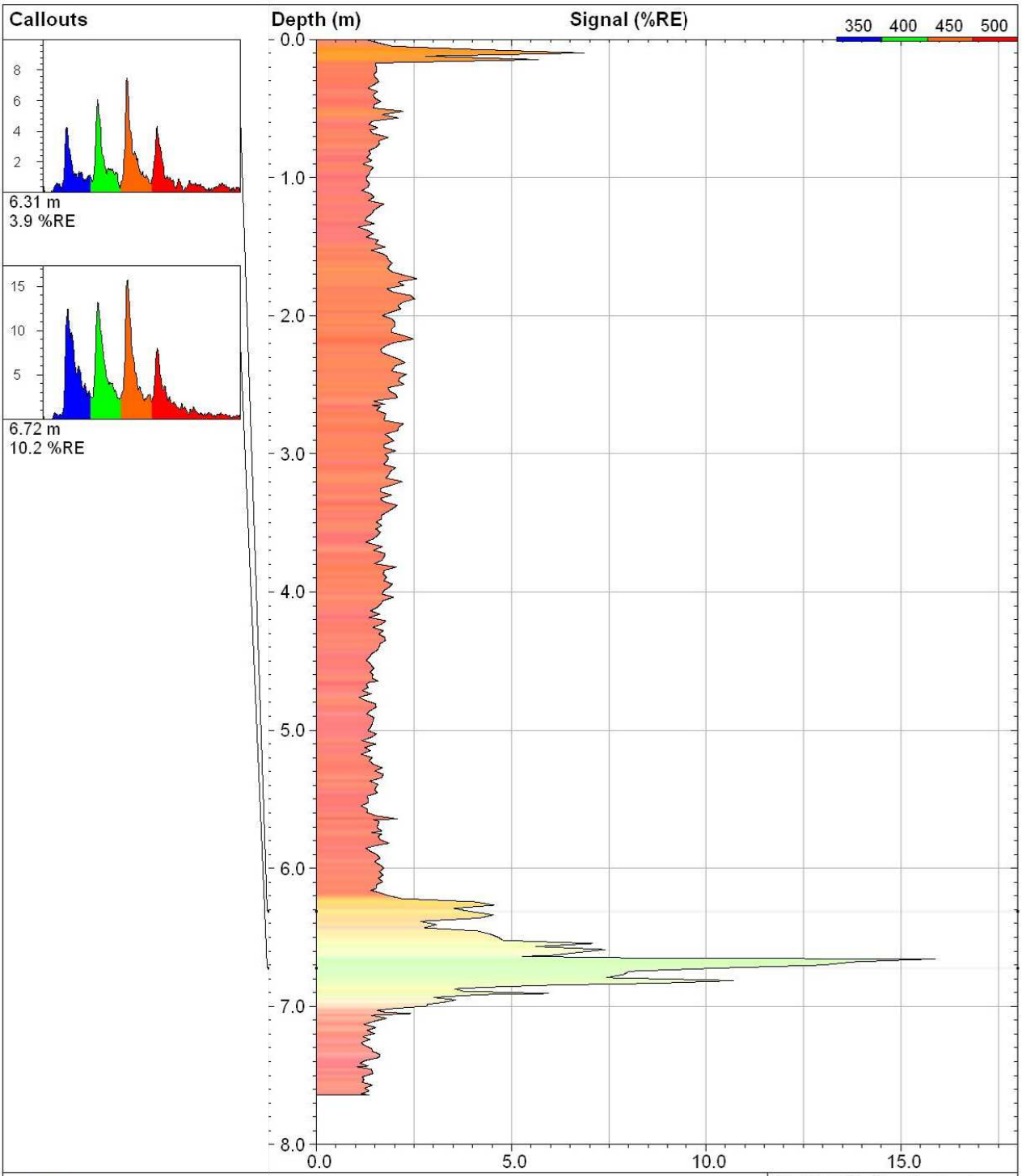
LIF_062_2		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.31 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **72.4 %RE @ 5.82 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-04 13:40 FLEST**



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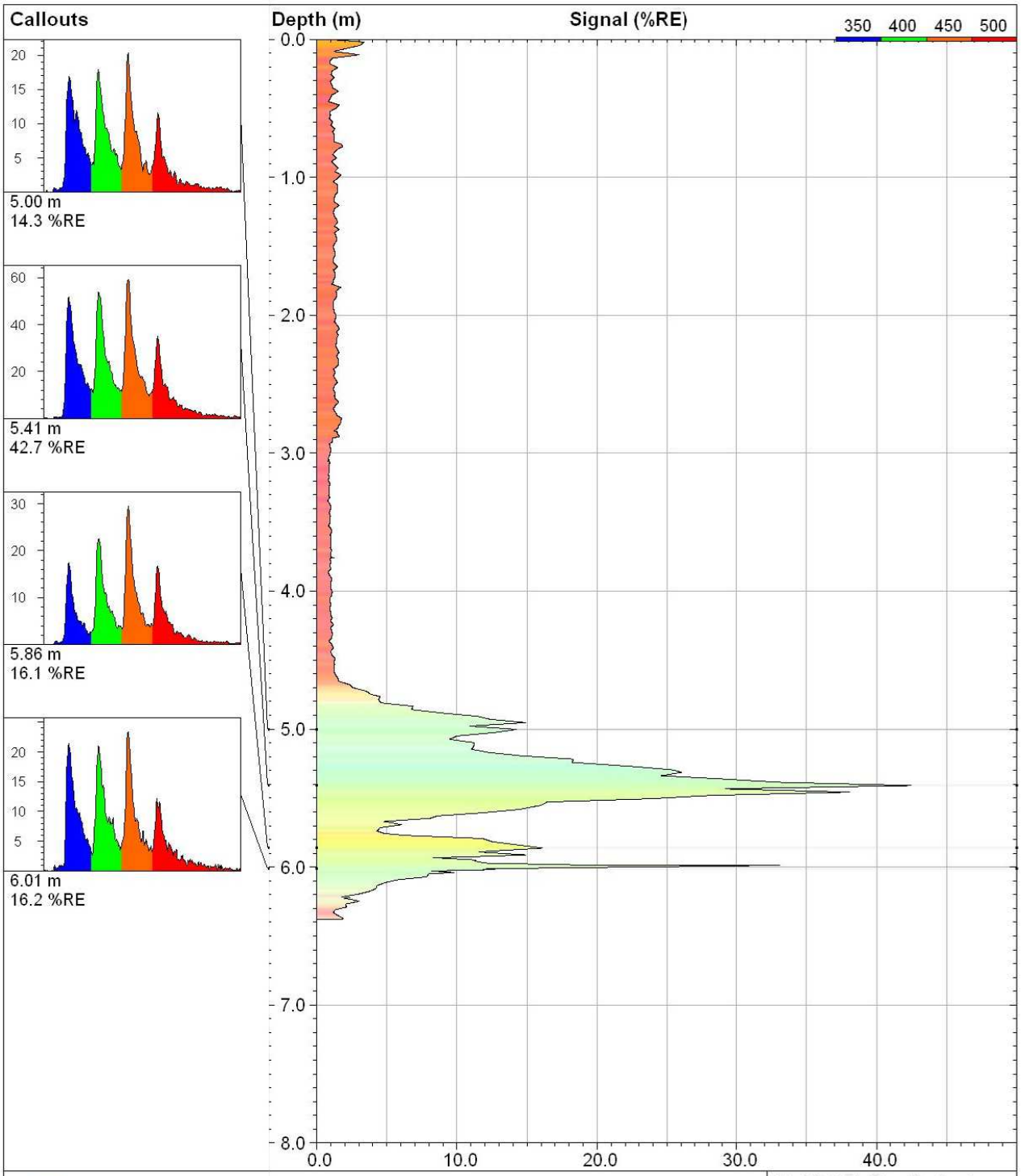
LIF_063		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.64 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **15.9 %RE @ 6.66 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-04 14:20 FLEST**



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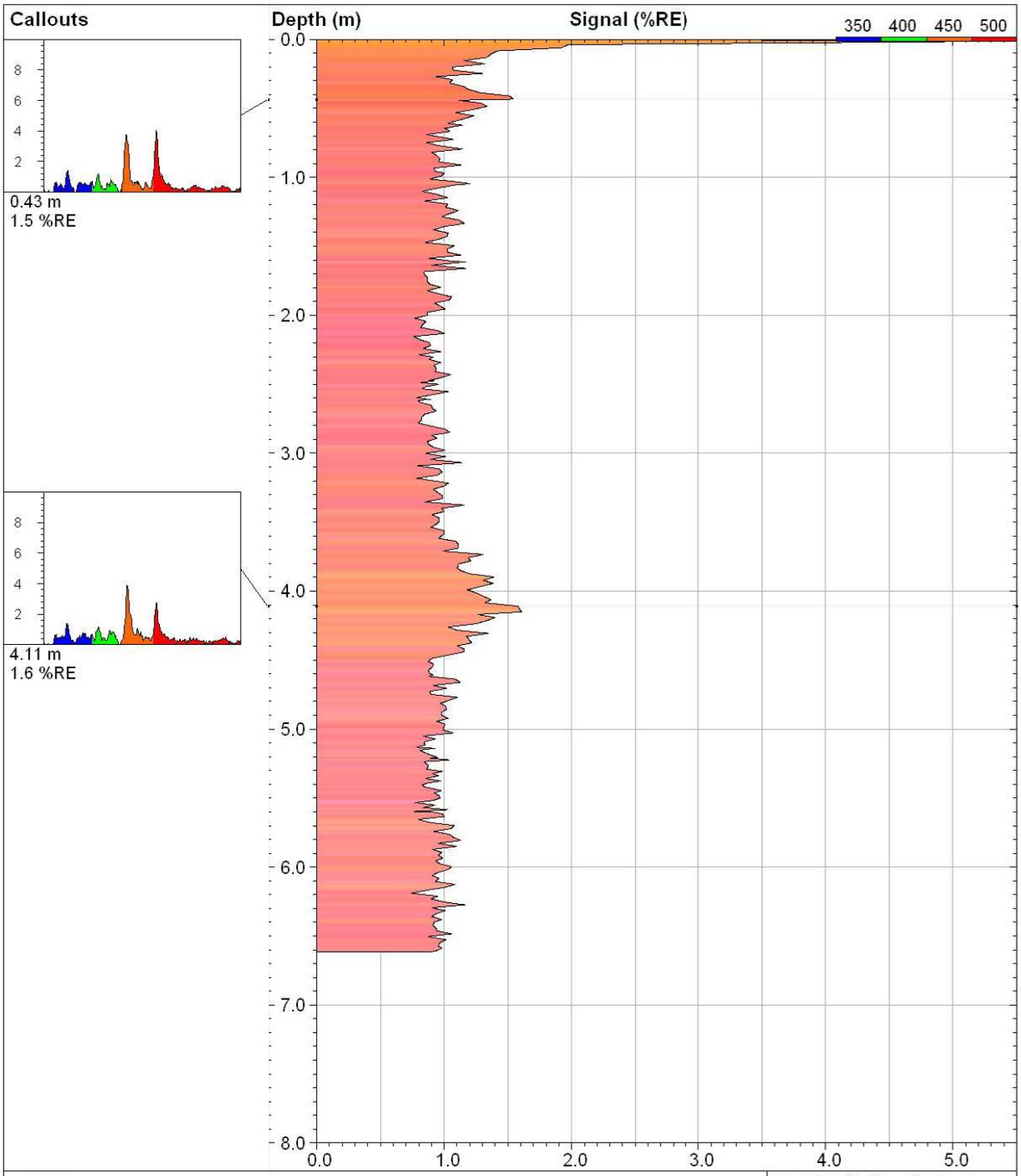
LIF_064		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.38 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **42.7 %RE @ 5.41 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-04 15:12 FLEST**



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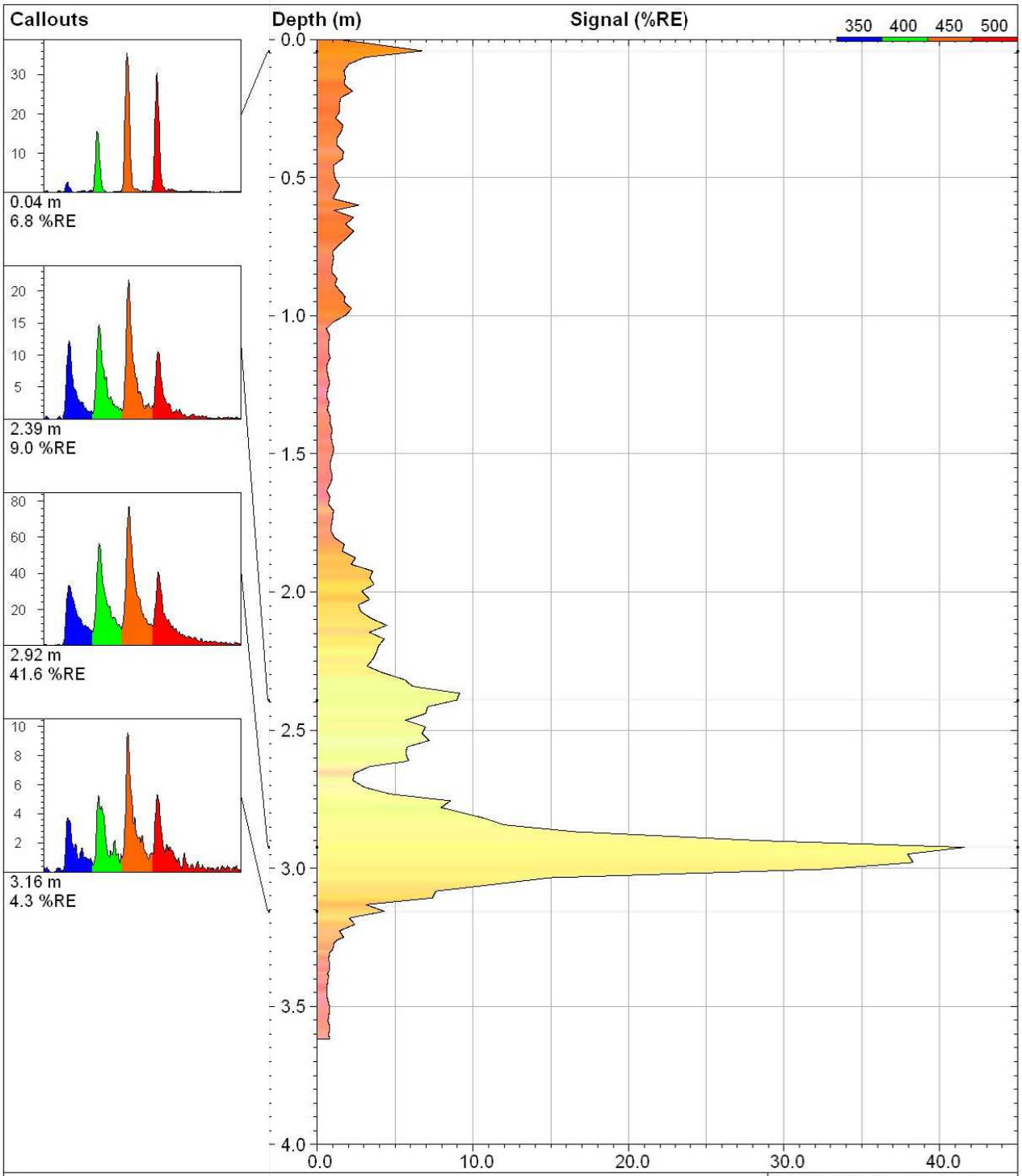
LIF_065		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.62 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.0 %RE @ 0.02 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-04 15:53 FLEST**



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LIF_066

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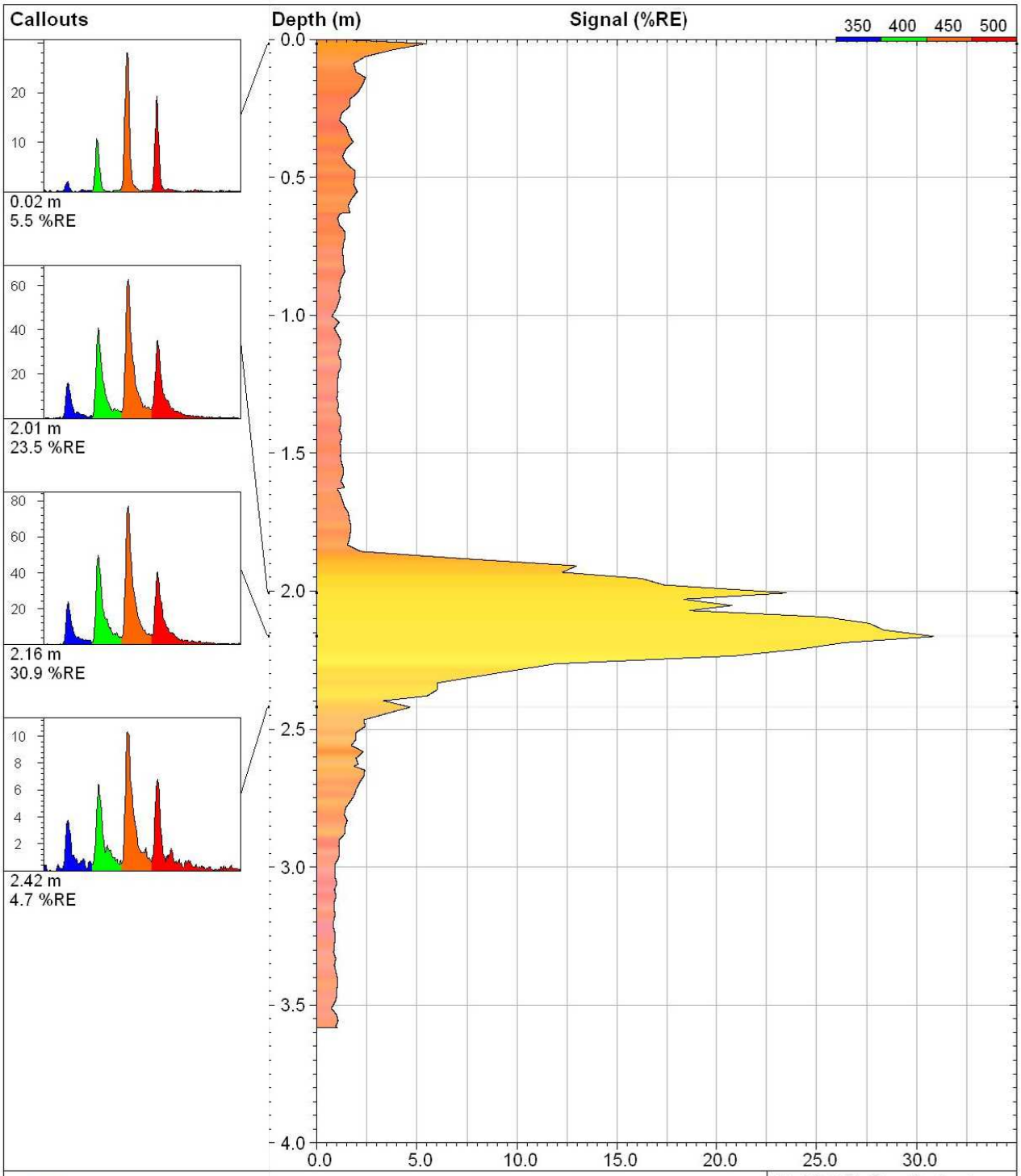
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.62 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **41.6 %RE @ 2.92 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 09:36 FLEST**



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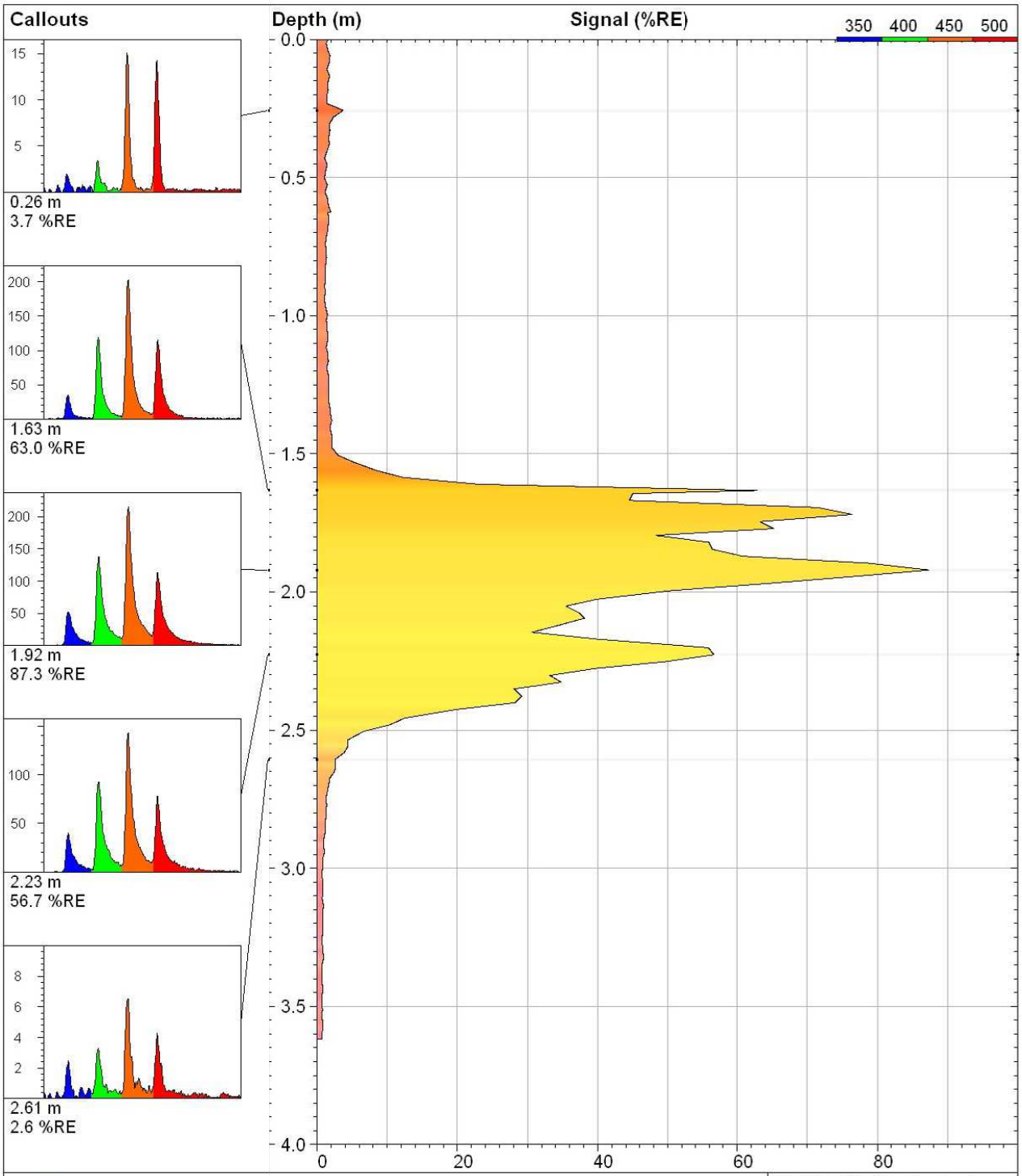
LIF_067		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.58 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **30.9 %RE @ 2.16 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 09:49 FLEST**



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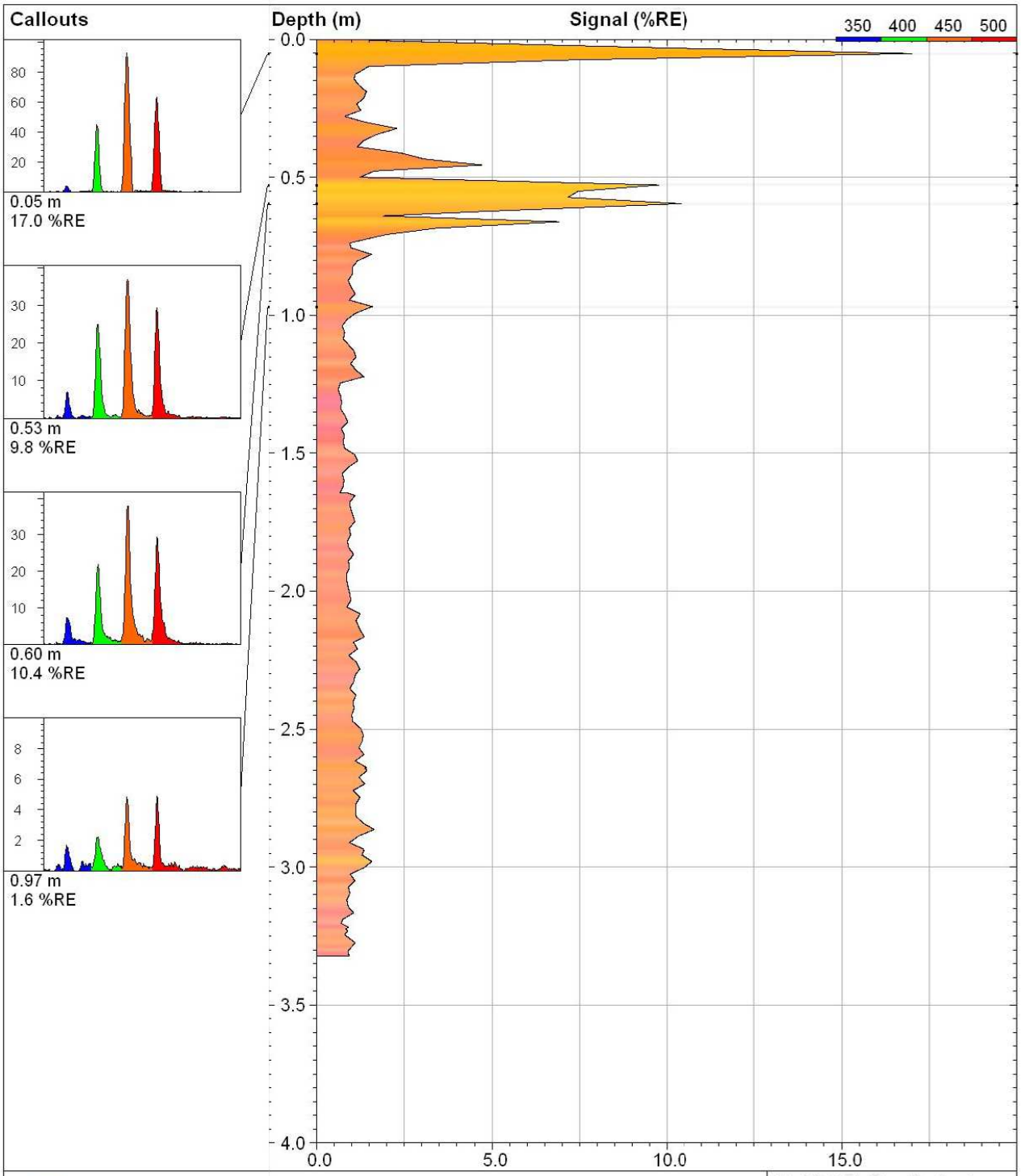
LIF_068		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.62 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **87.3 %RE @ 1.92 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 10:14 FLEST**



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LIF_069

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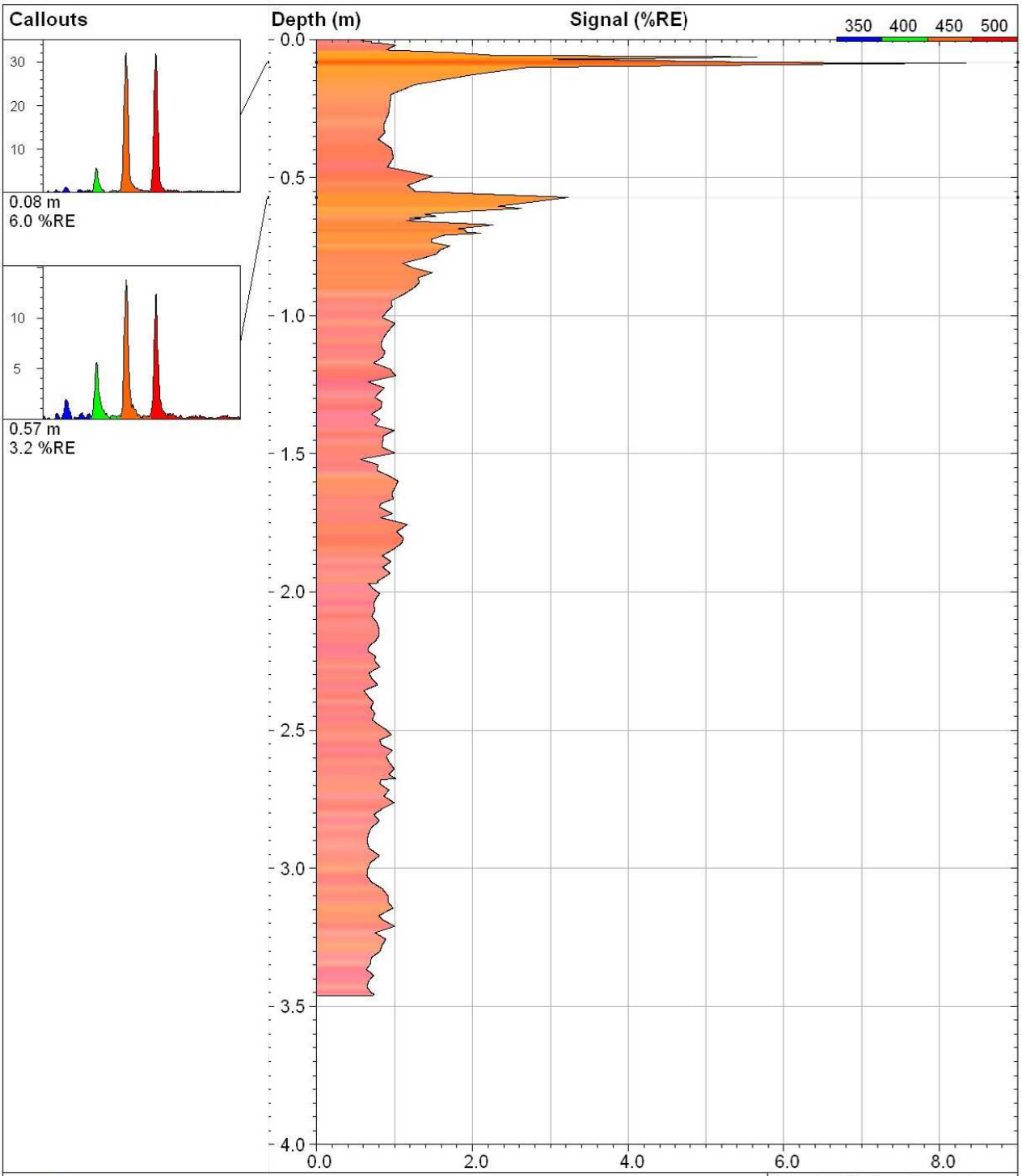
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.32 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **17.0 %RE @ 0.05 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 10:40 FLEST**



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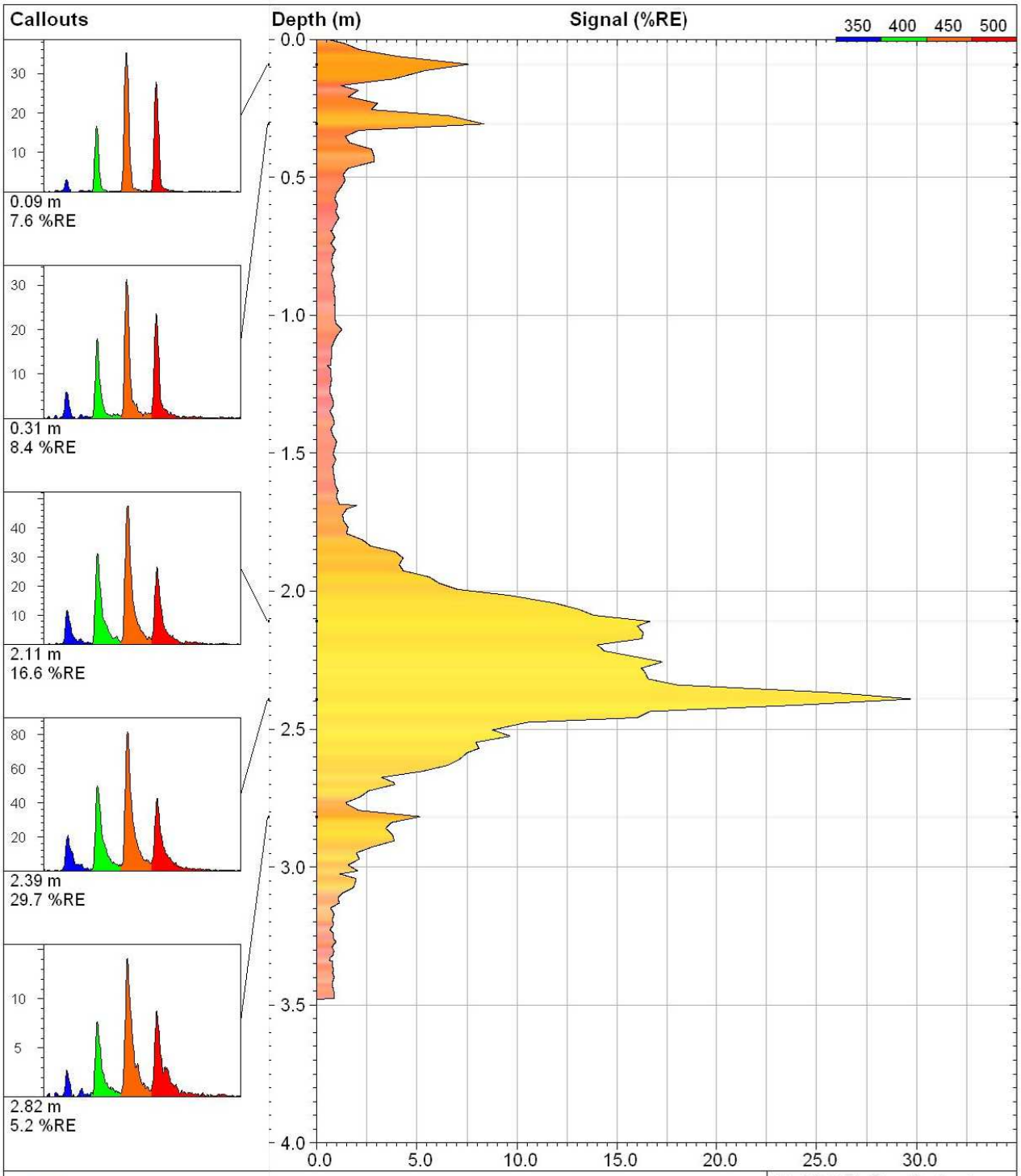
LIF_070		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.46 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.3 %RE @ 0.09 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 11:02 FLEST**



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LIF_071

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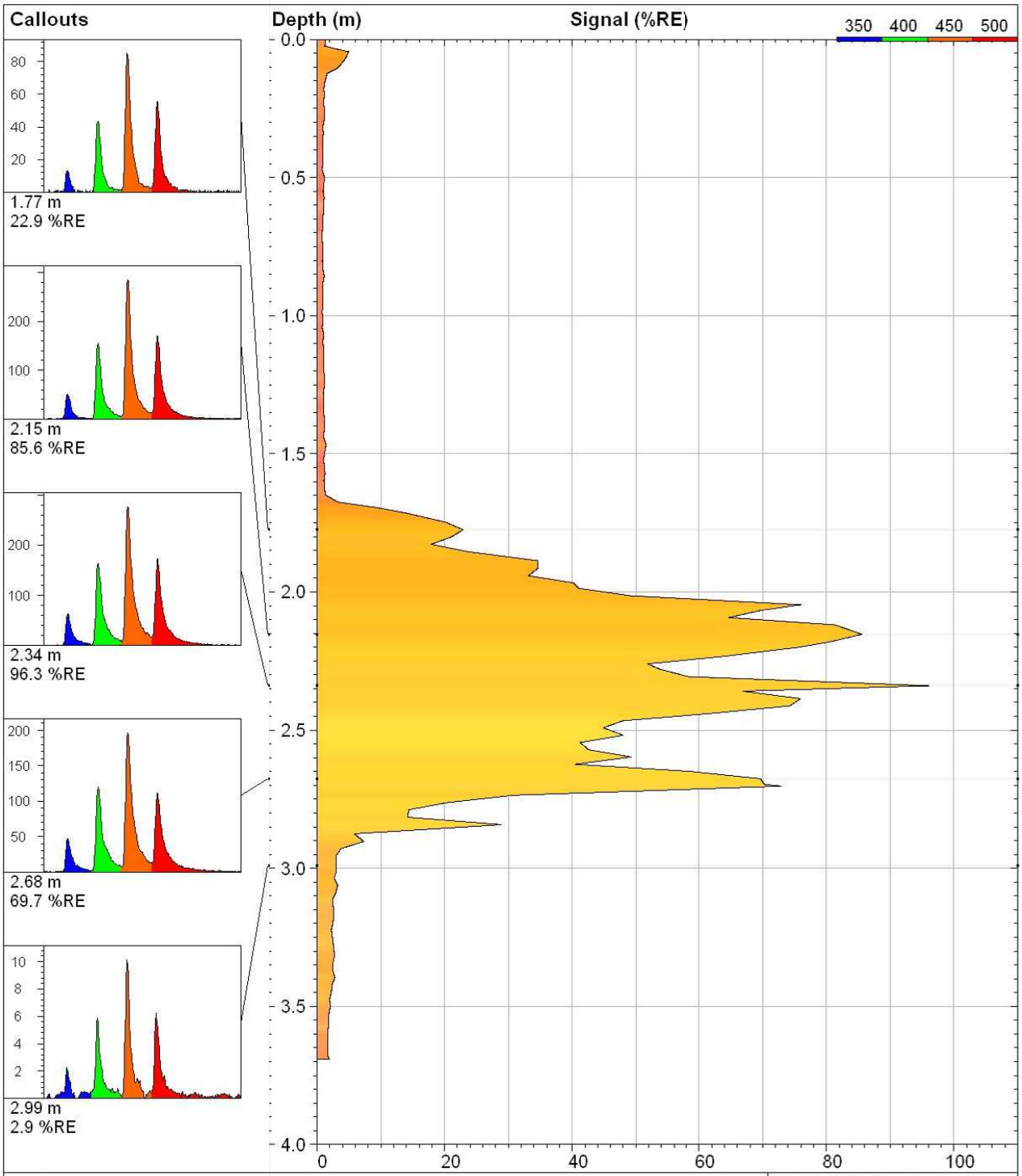
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.48 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **29.7 %RE @ 2.39 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 11:36 FLEST**



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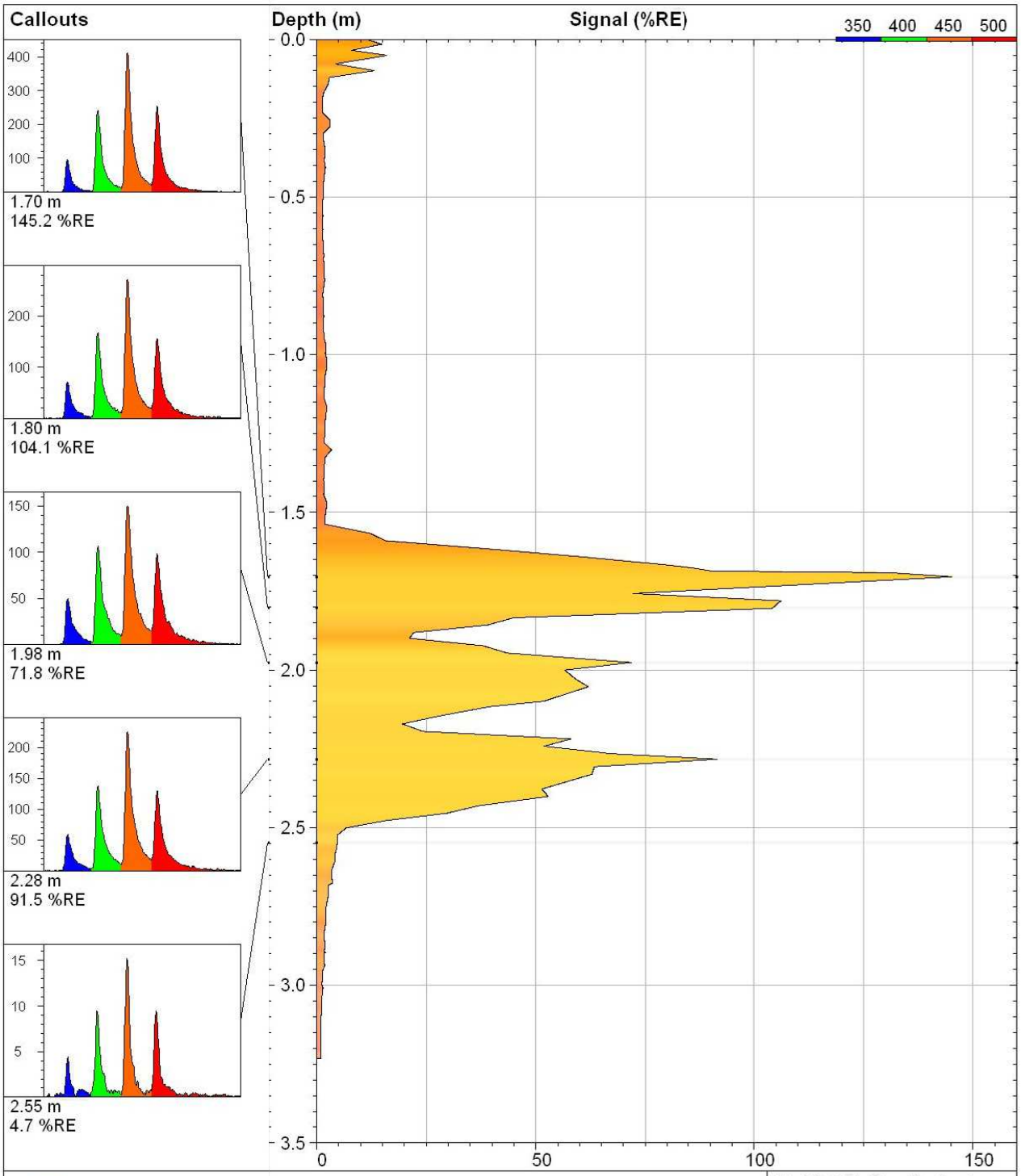
LIF_072		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.69 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **96.3 %RE @ 2.34 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 12:13 FLEST**



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LIF_073

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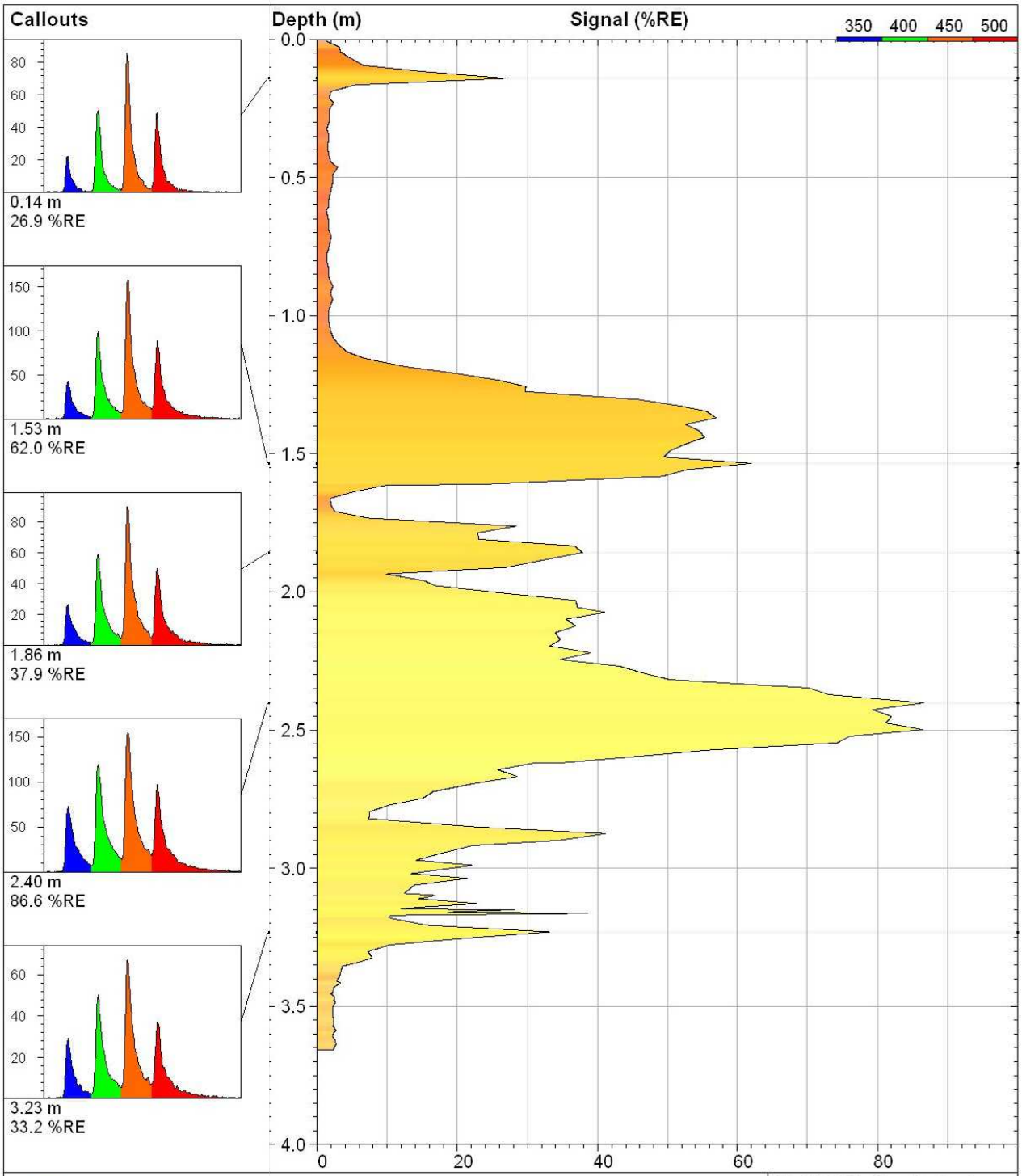
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.23 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **145.2 %RE @ 1.70 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 13:27 FLEST**



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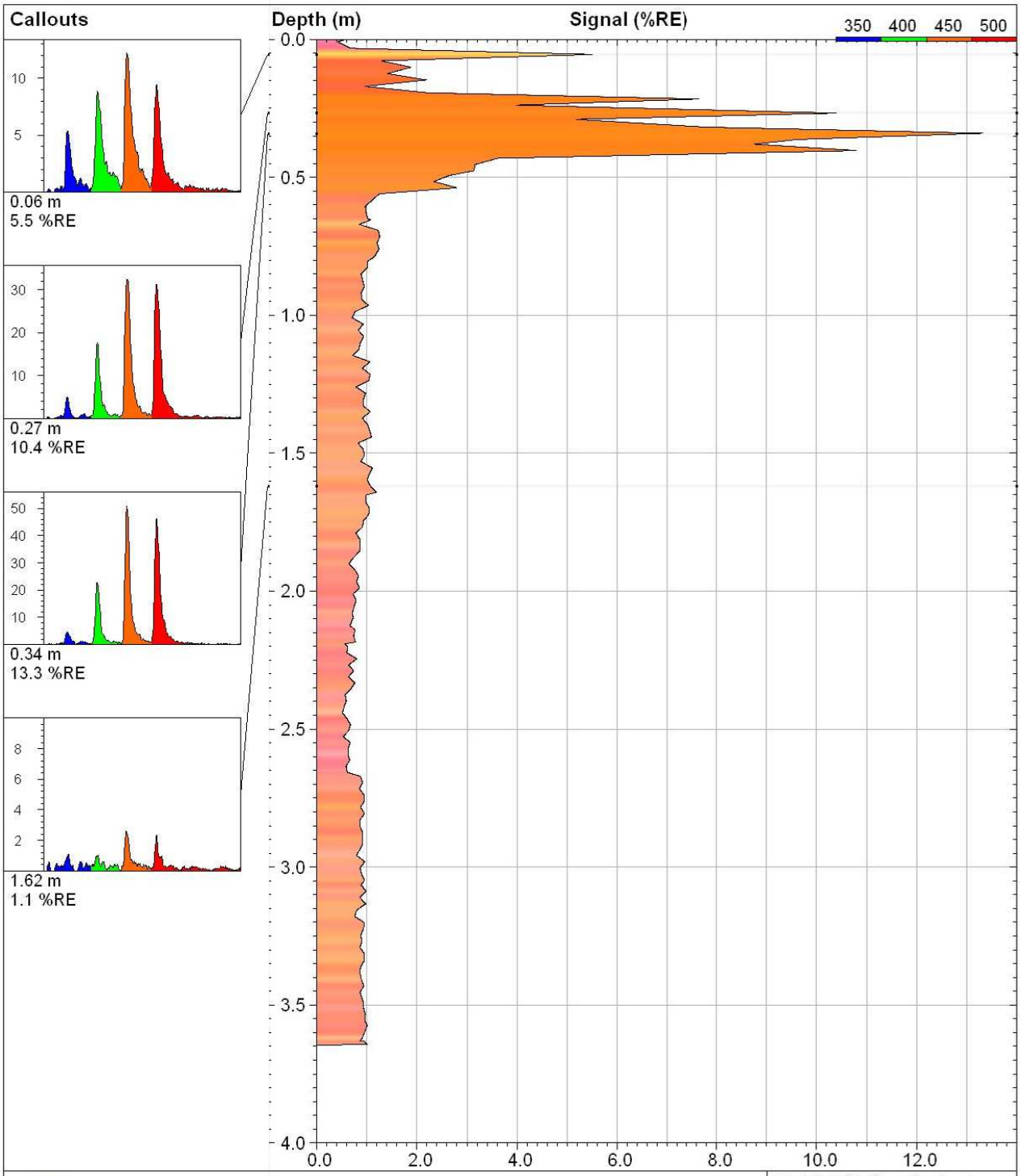
LIF_074		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.66 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **86.6 %RE @ 2.40 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 13:47 FLEST**



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LIF_075

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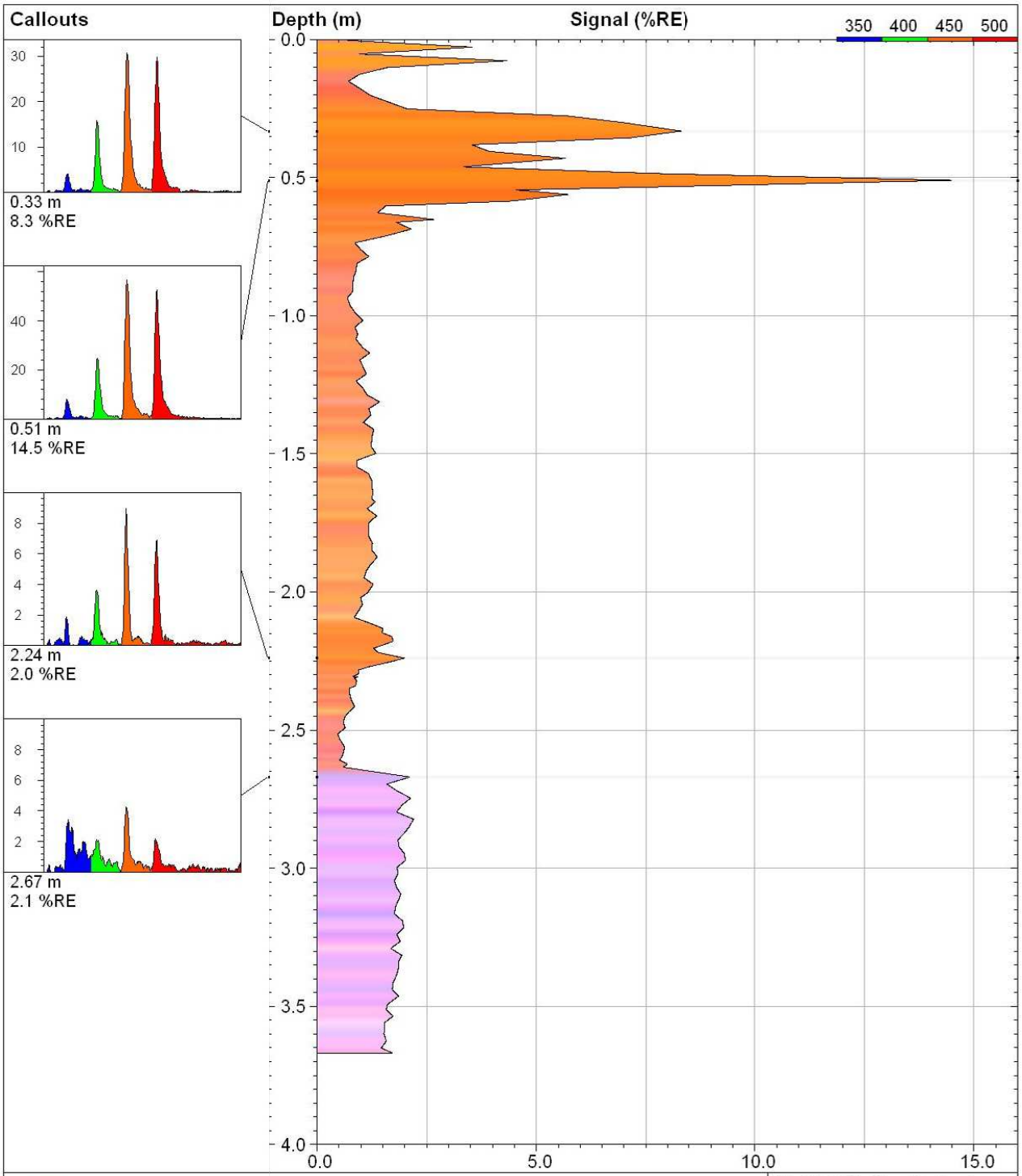
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.64 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.3 %RE @ 0.34 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 14:10 FLEST**



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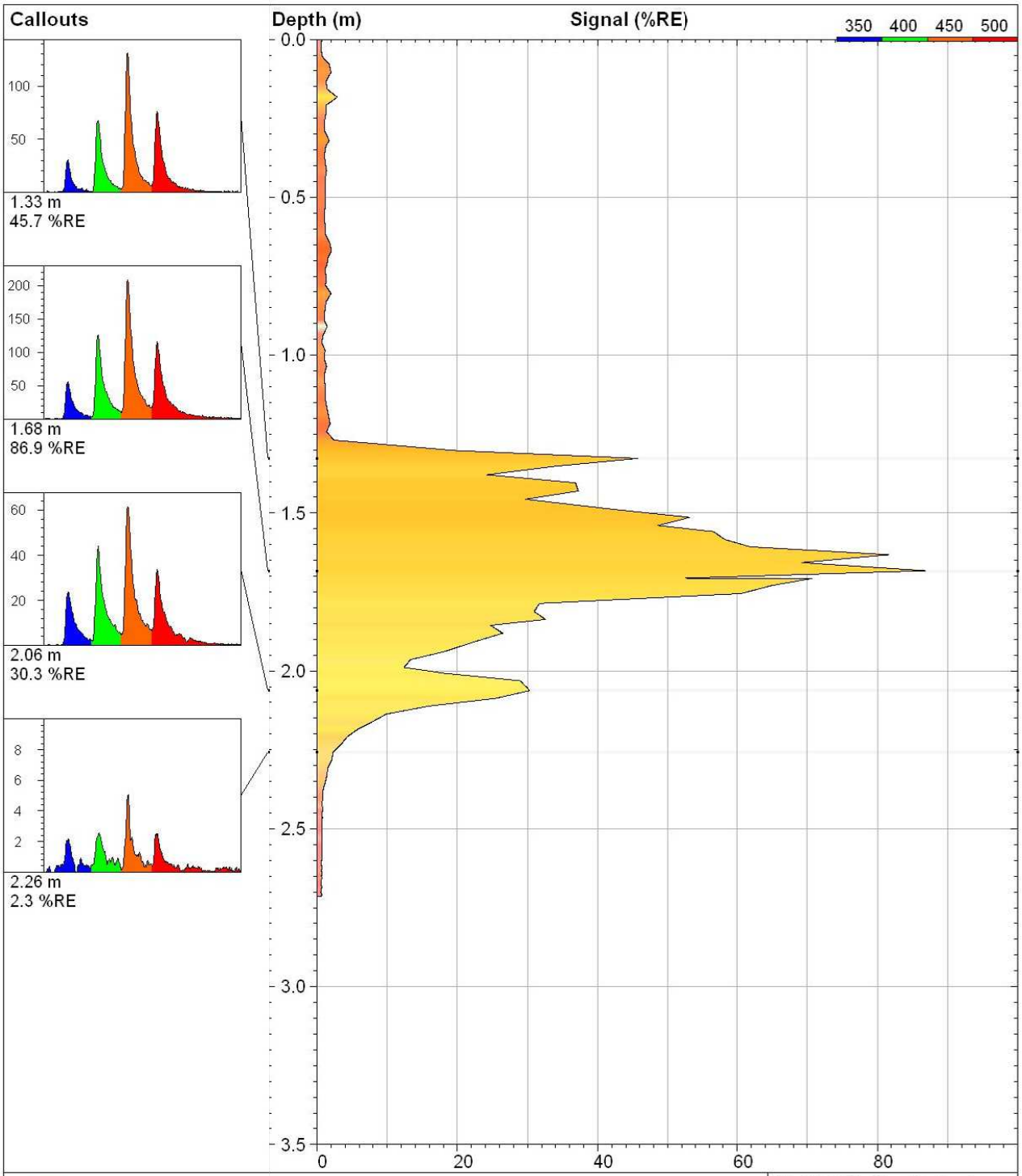
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.67 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **14.5 %RE @ 0.51 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 14:32 FLEST**



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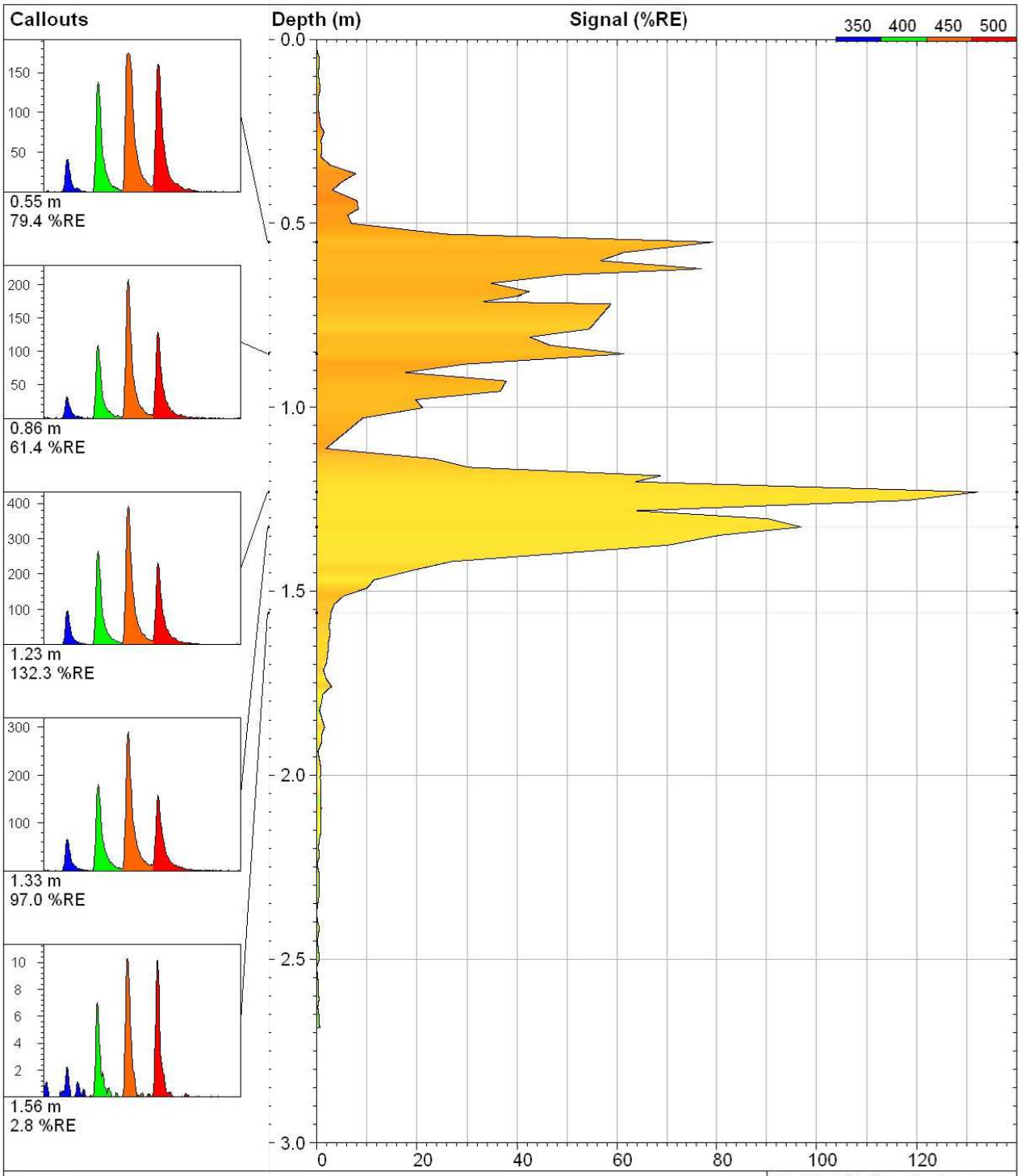
LIF_077		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.71 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **86.9 %RE @ 1.68 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 14:49 FLEST**



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LIF_078

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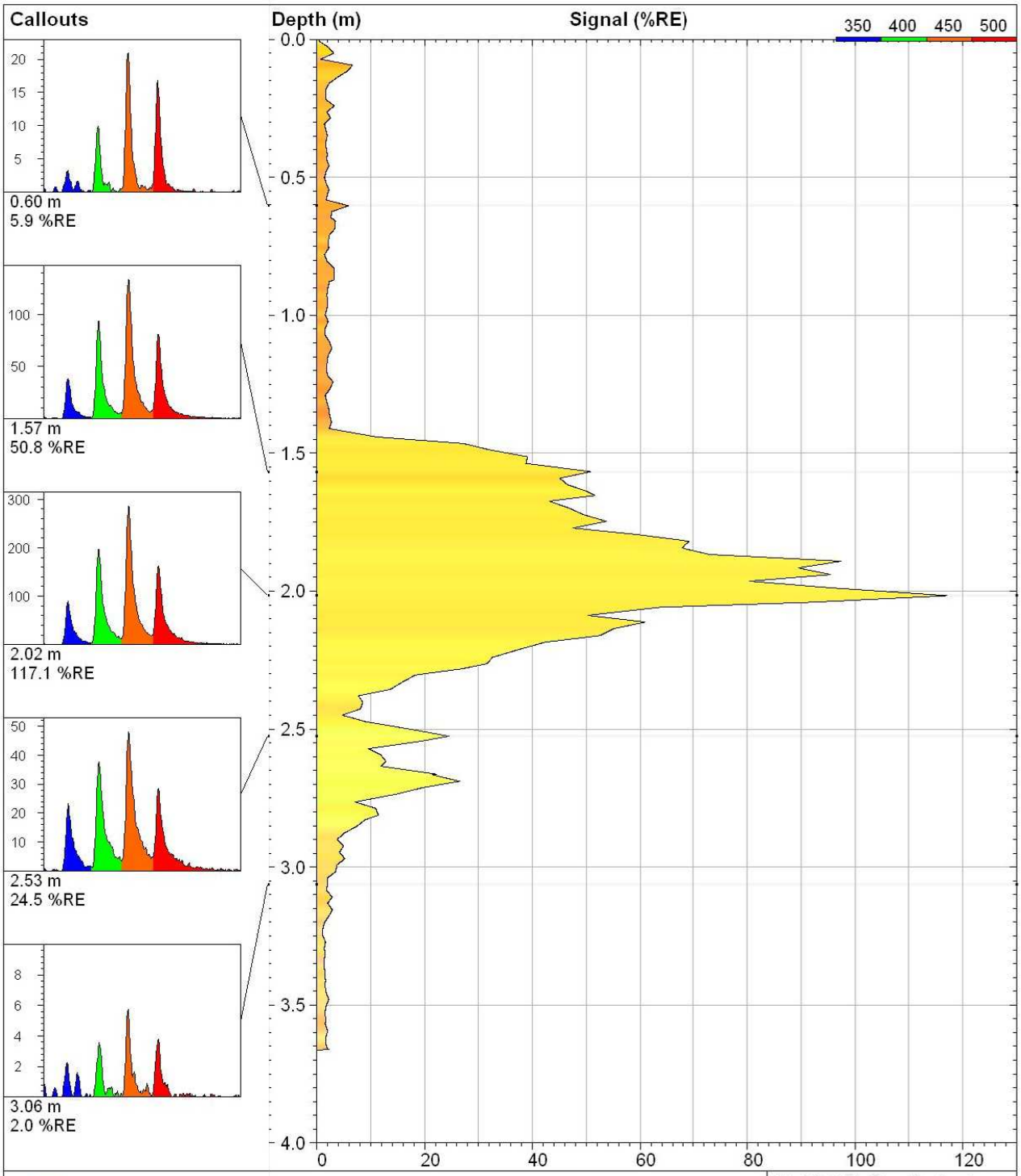
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.69 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **132.3 %RE @ 1.23 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-05 16:25 FLEST**



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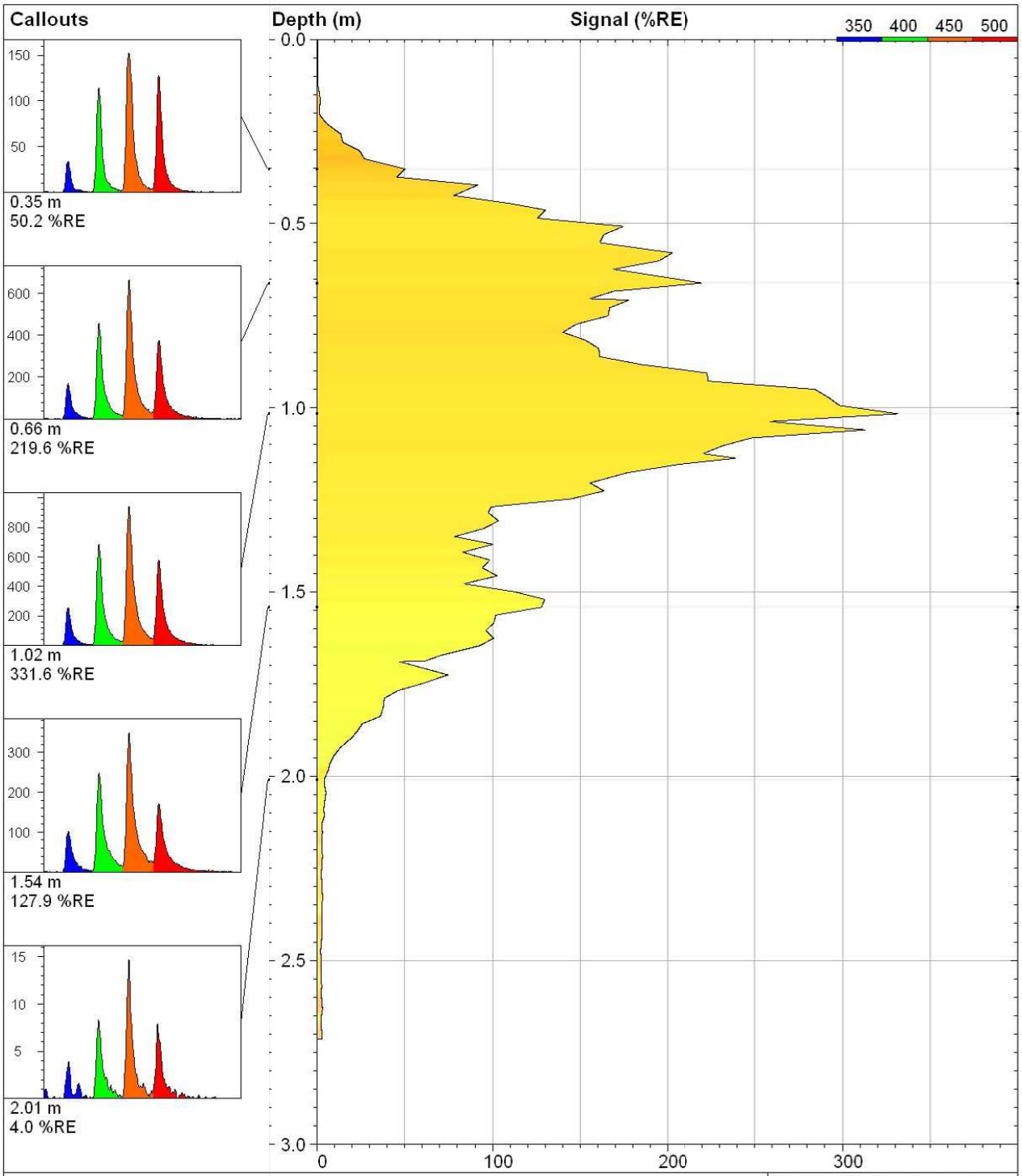
LIF_079		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.66 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **117.1 %RE @ 2.02 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-06 09:20 FLEST**



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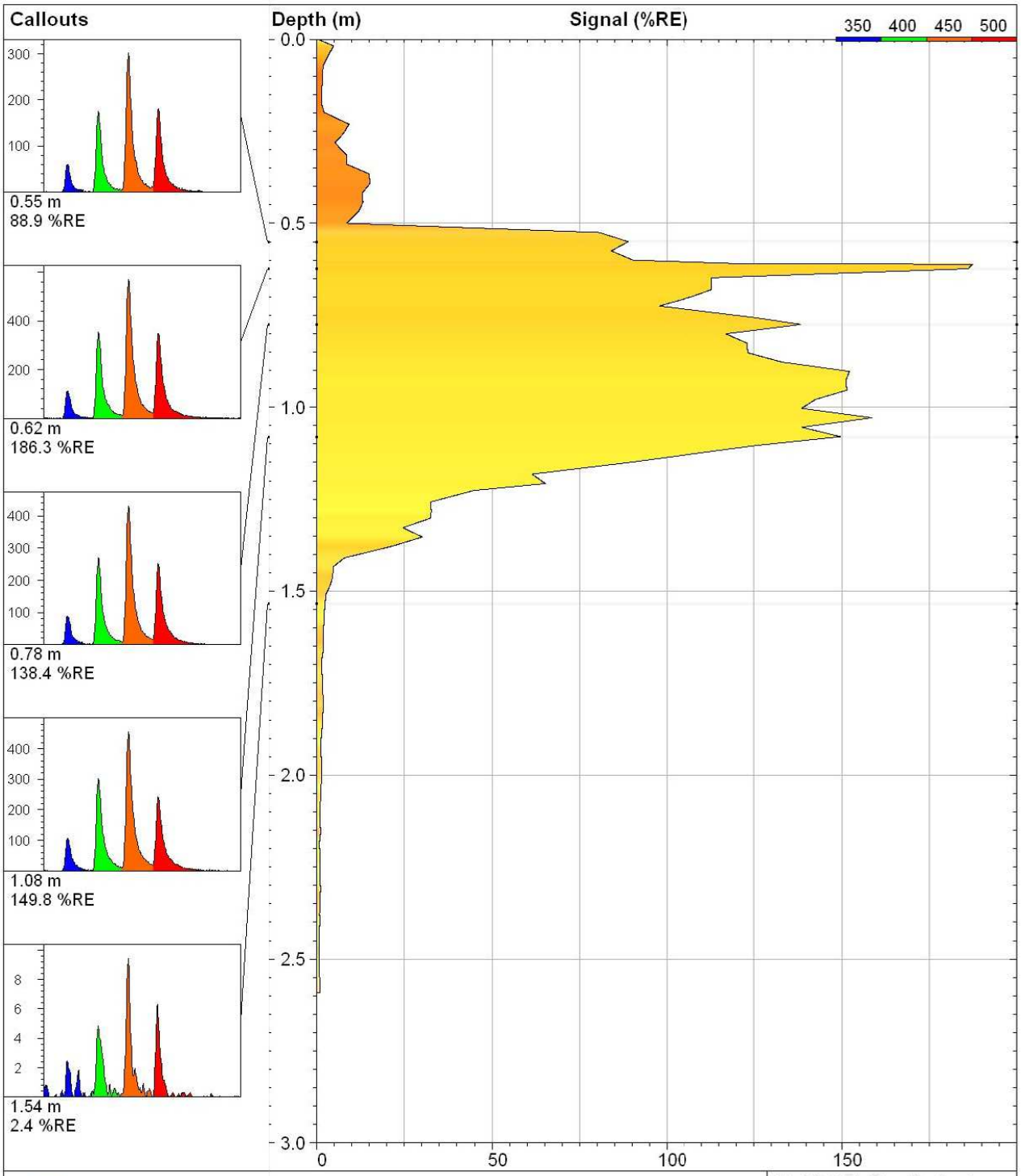
LIF_080		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.71 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **331.6 %RE @ 1.02 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-06 09:33 FLEST**



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LIF_081

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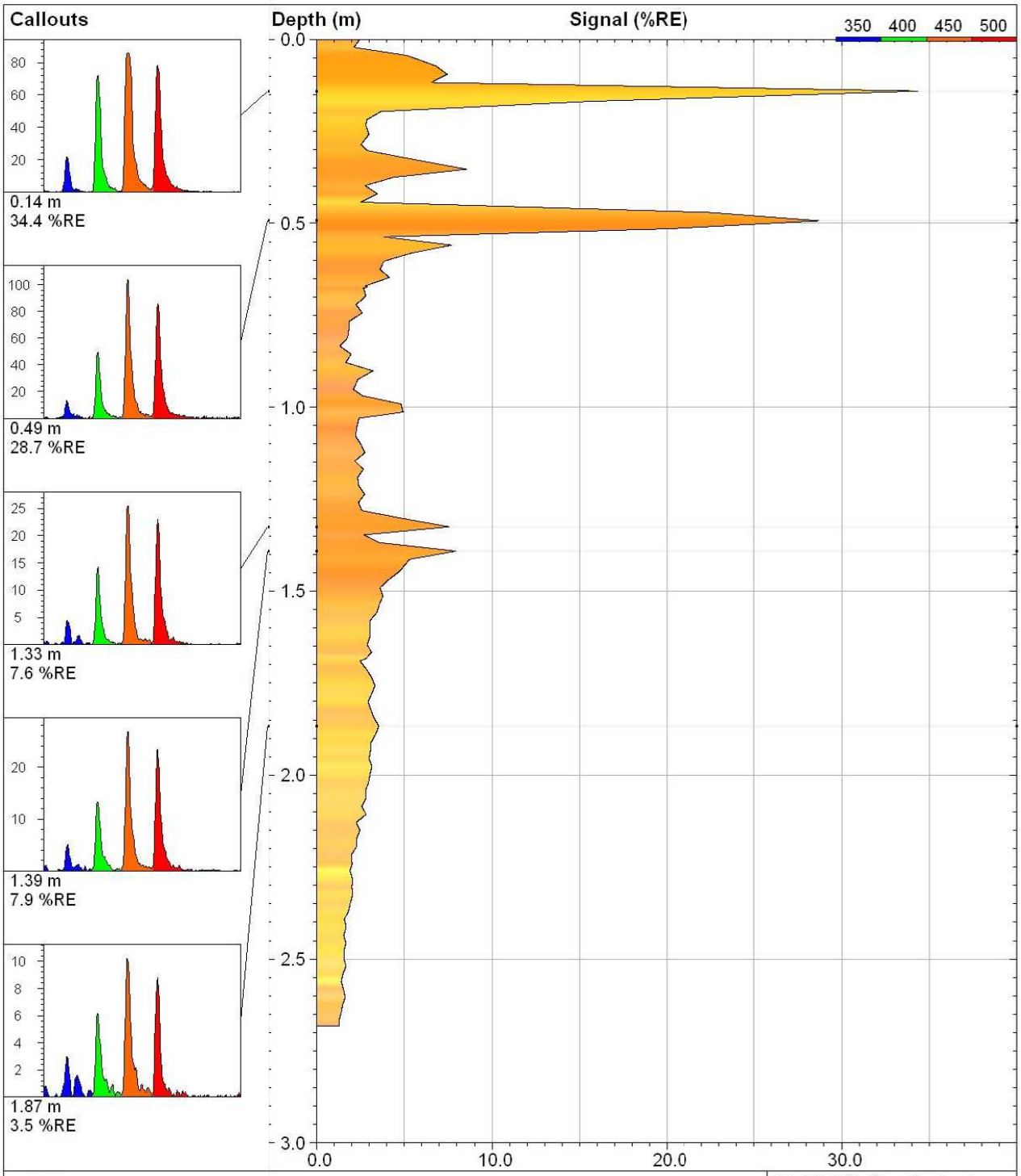
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.59 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **187.3 %RE @ 0.61 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-06 09:57 FLEST**



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LIF_082

UVOST By Dakota
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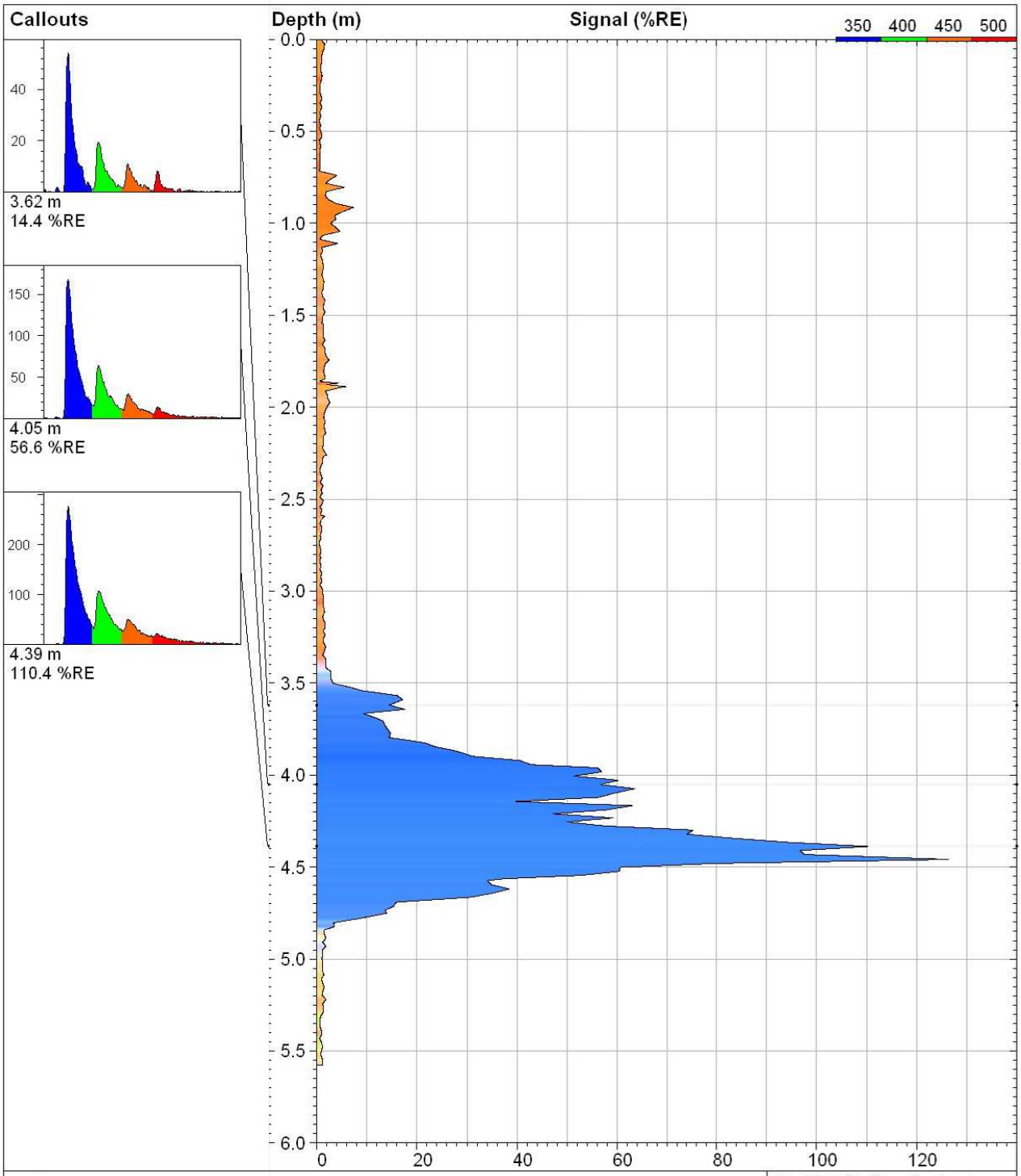
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **2.68 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **34.4 %RE @ 0.14 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-06 10:35 FLEST**



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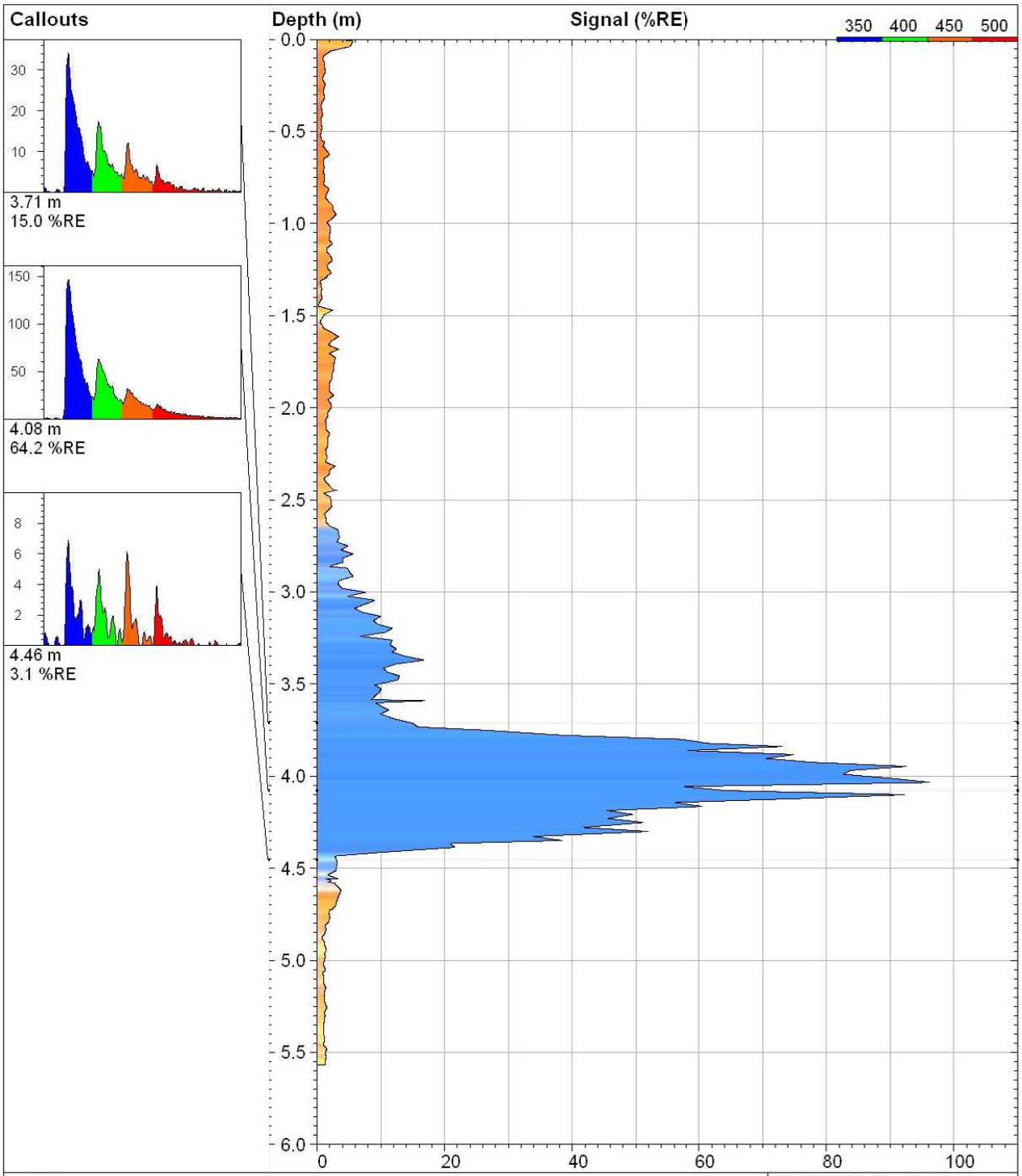
LIF_083		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.58 m**
Client / Job: /	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **126.4 %RE @ 4.46 m**
Operator / Unit: / **UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-09 14:00 FLEST**



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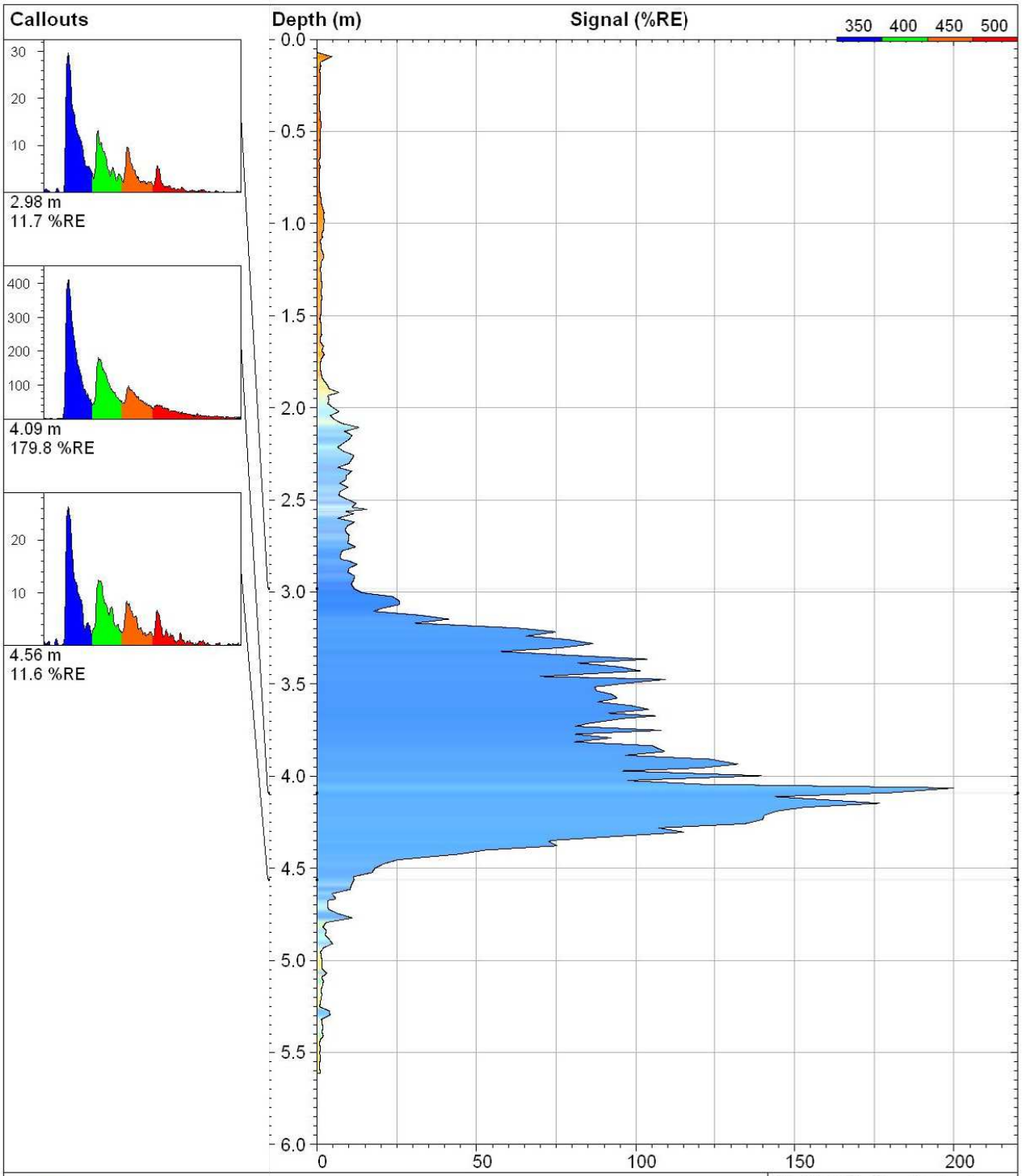
LIF_084		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.57 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **96.3 %RE @ 4.03 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-09 14:23 FLEST**



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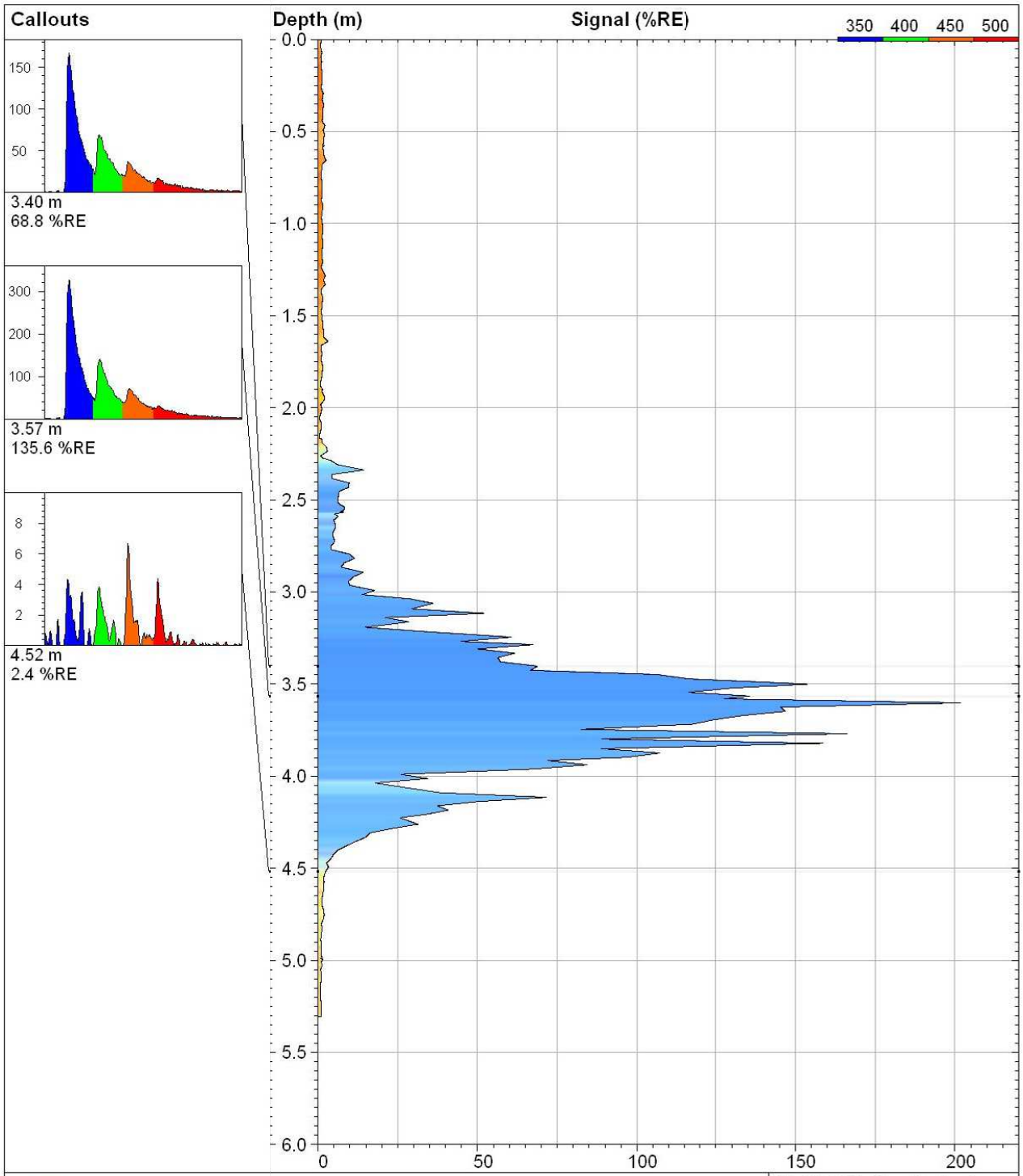
LIF_085		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.61 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **200.2 %RE @ 4.06 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-09 15:03 FLEST**



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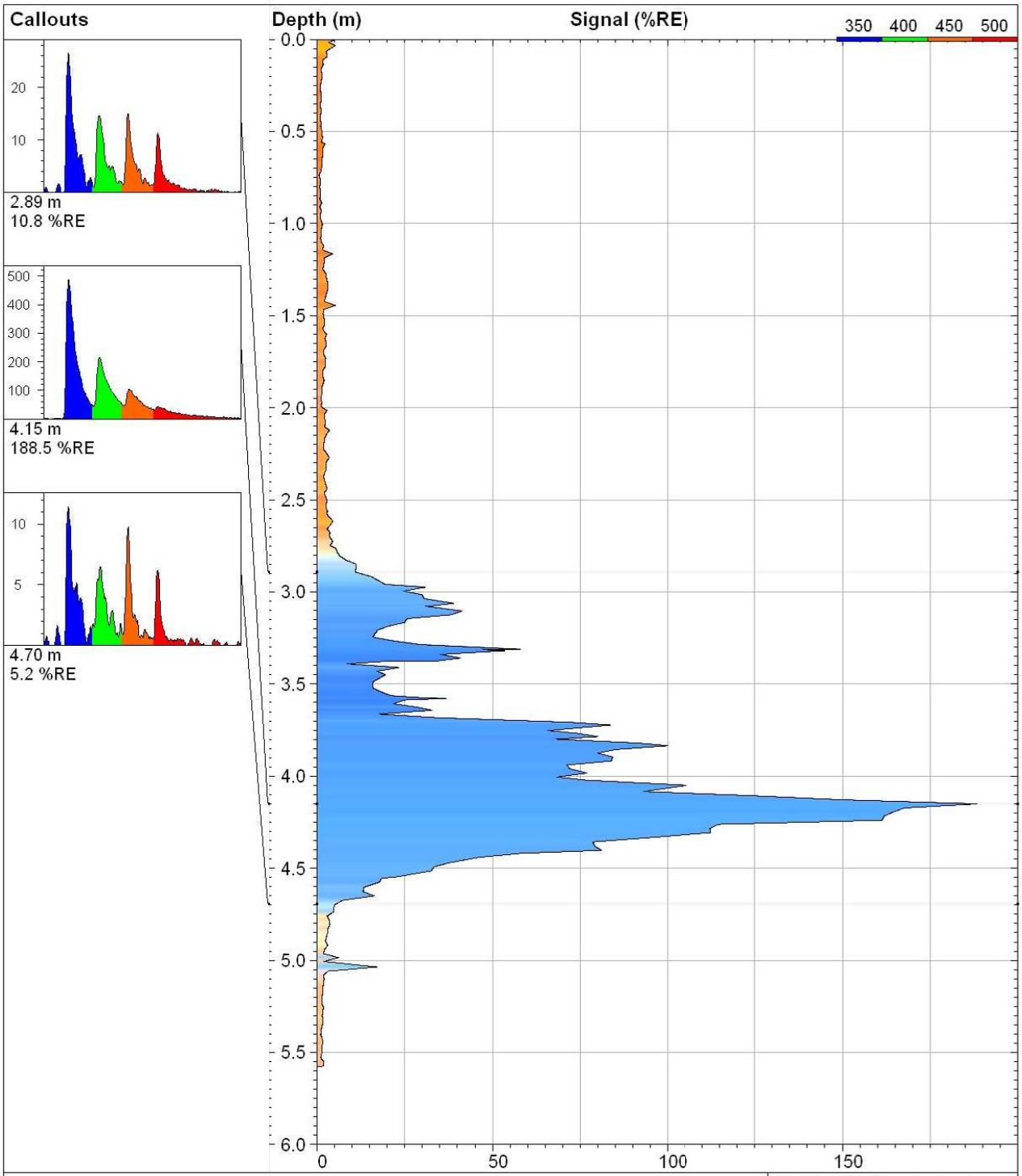
LIF_086		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.30 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **202.3 %RE @ 3.60 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-09 15:48 FLEST**



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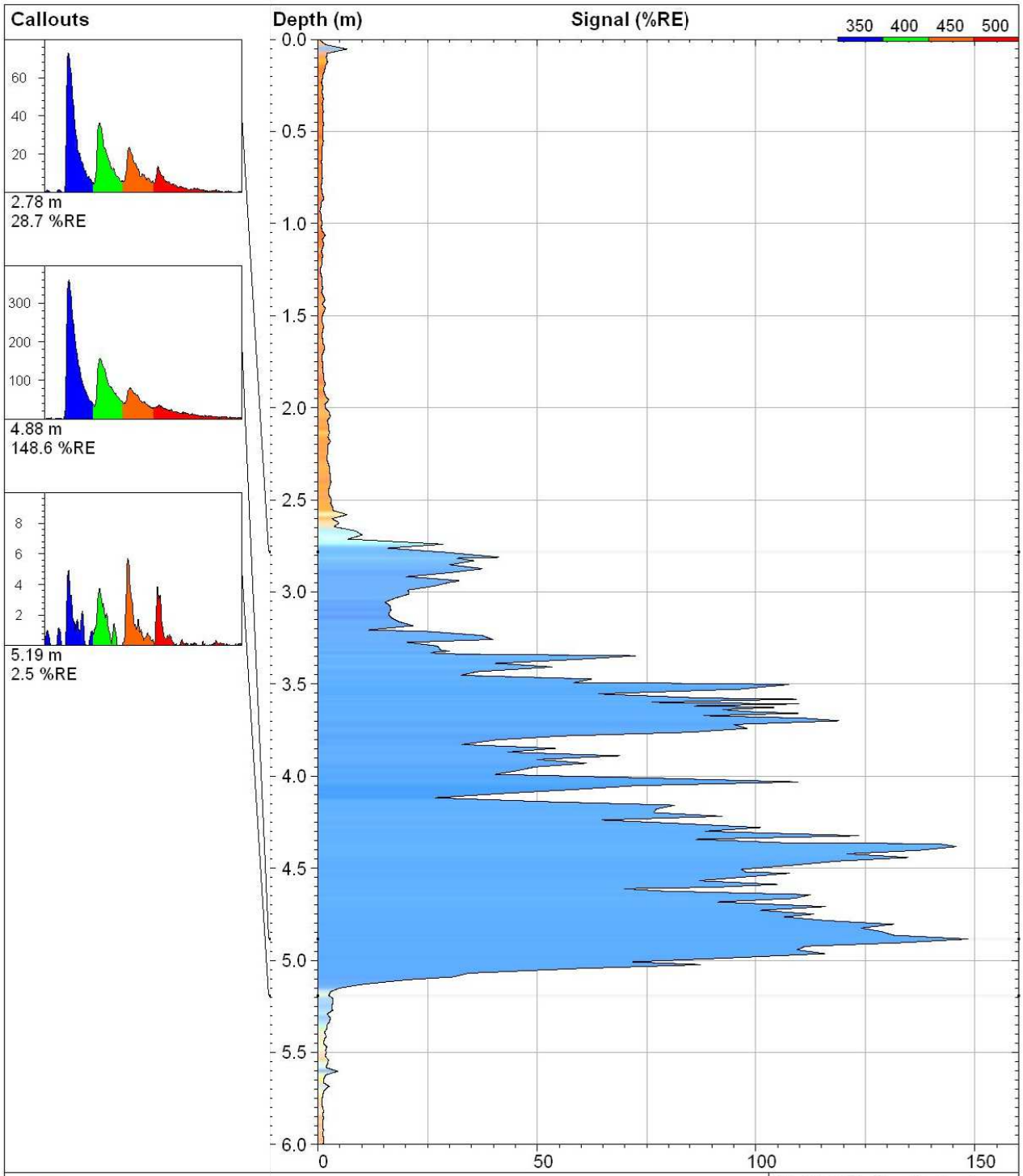
LIF_087		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.58 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **188.5 %RE @ 4.15 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 10:08 FLEST**



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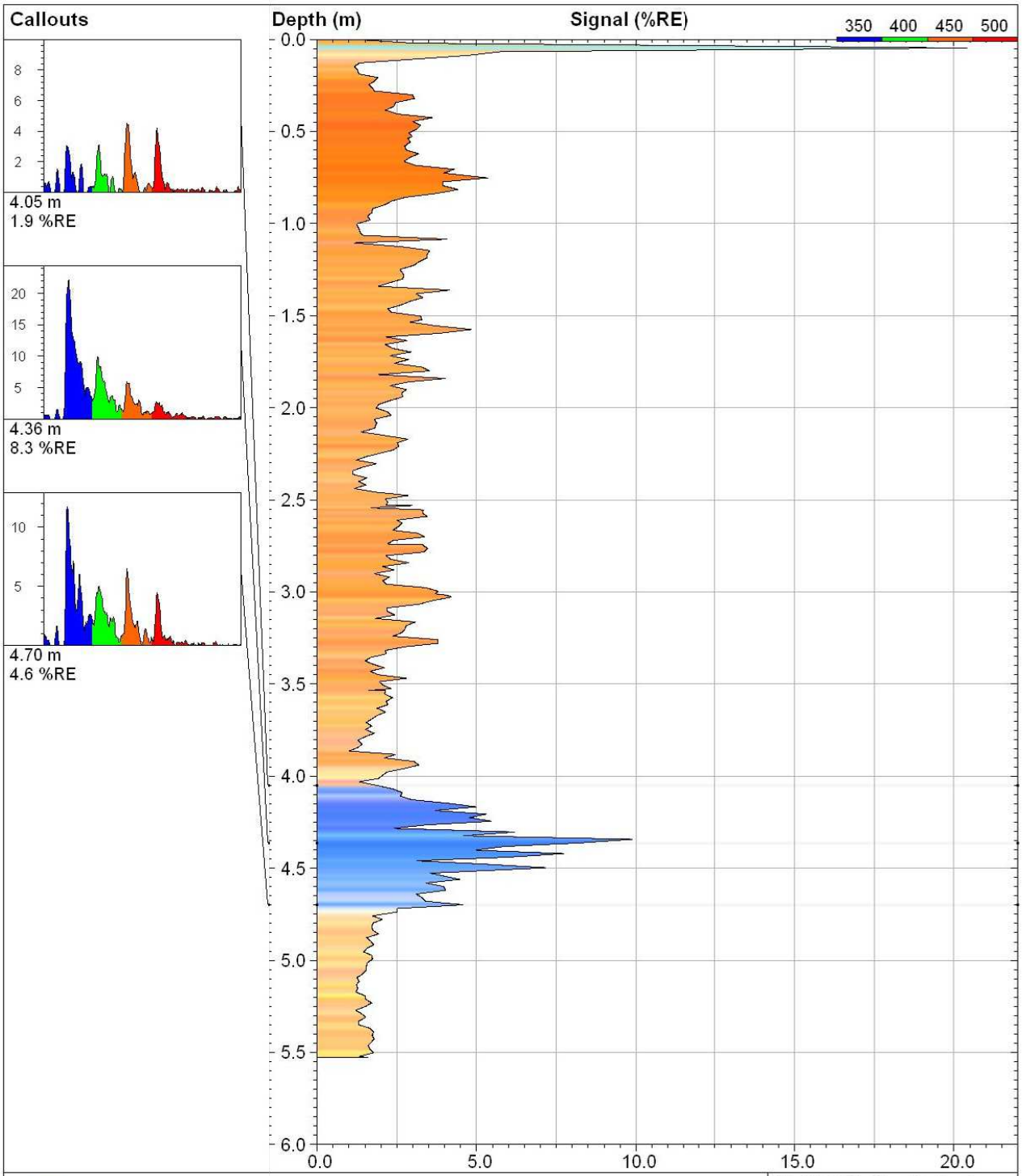
LIF_088		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.03 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **148.6 %RE @ 4.88 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 10:32 FLEST**



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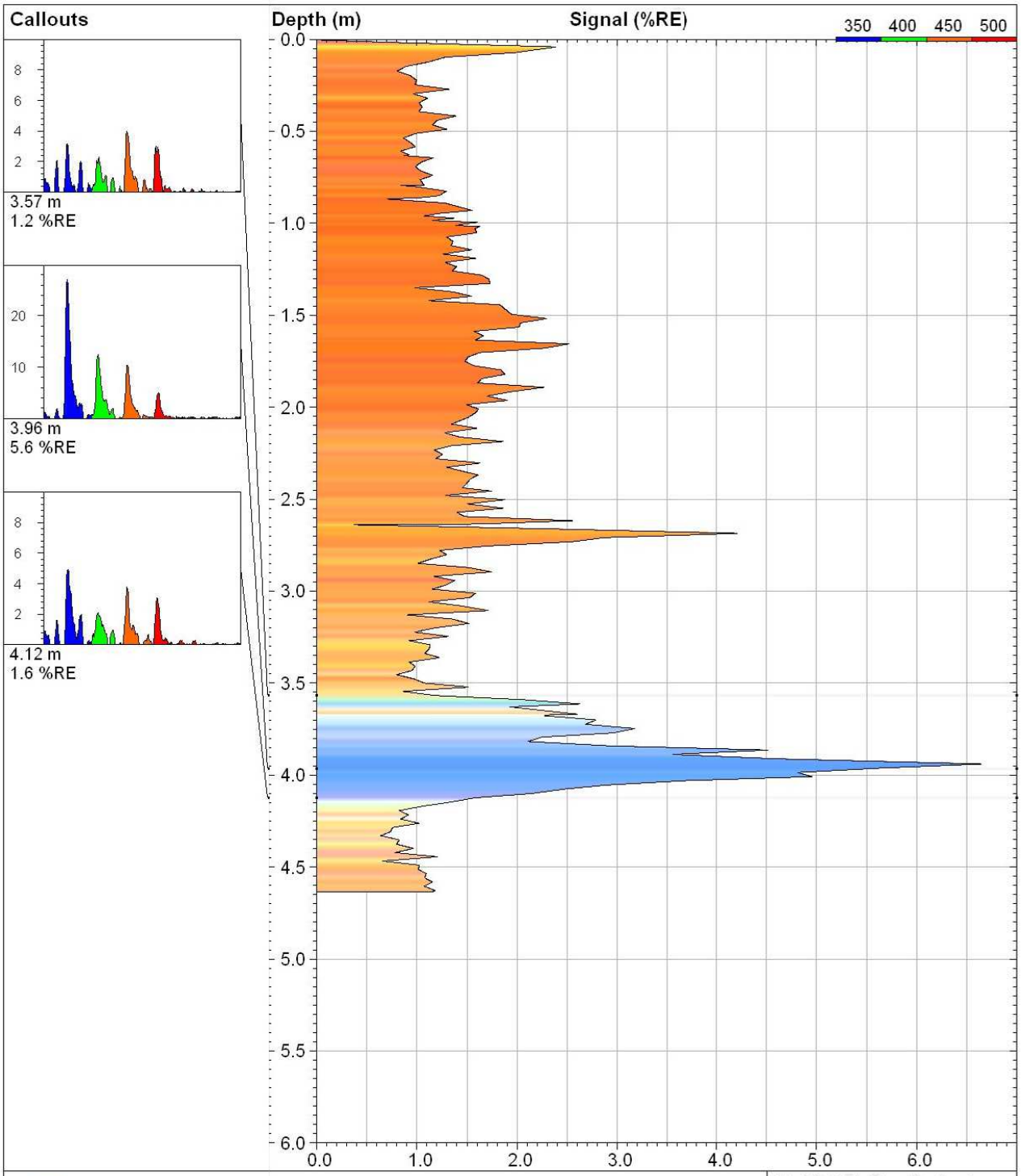
LIF_089		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.53 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **20.5 %RE @ 0.05 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 11:20 FLEST**



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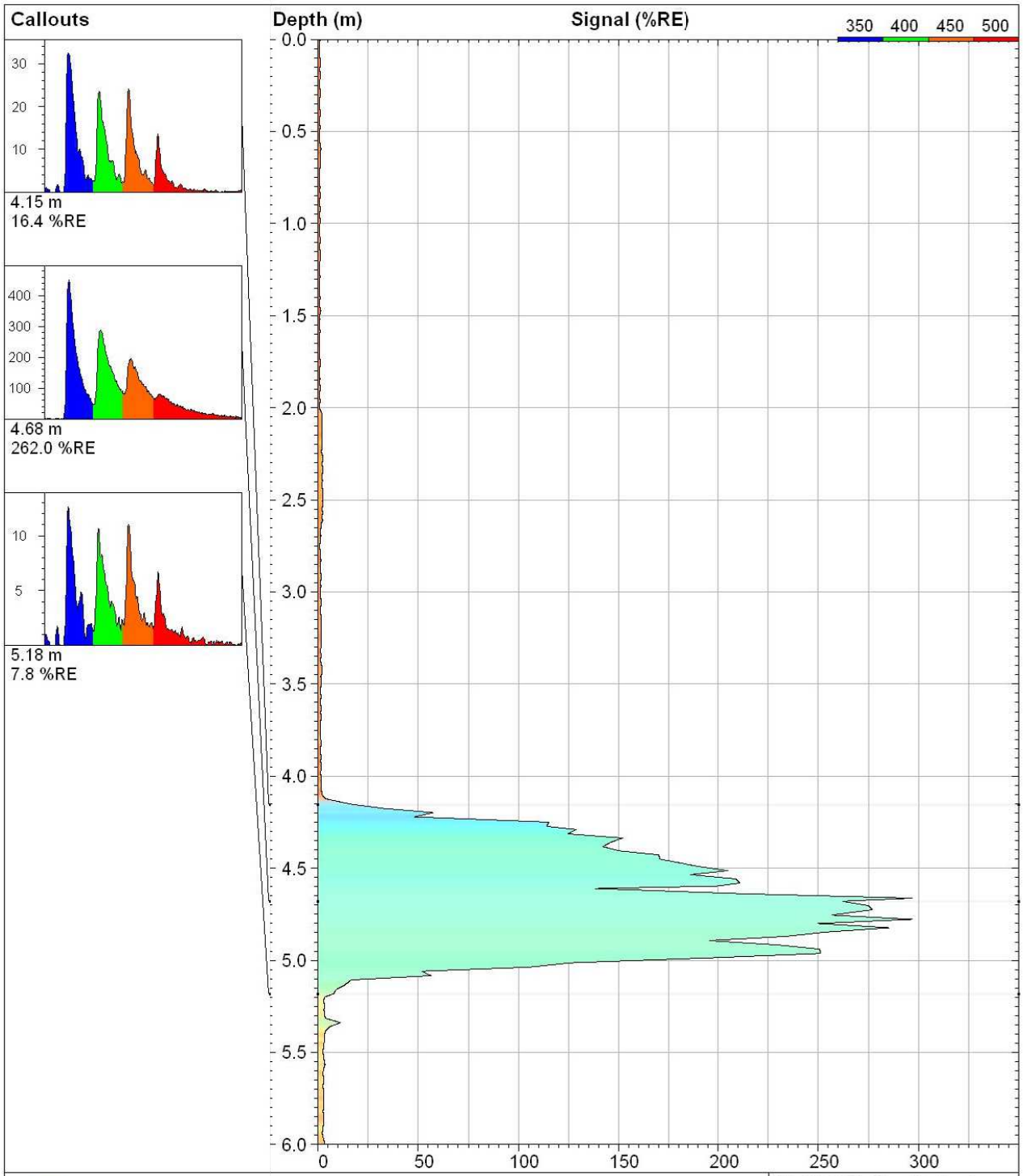
LIF_090		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.63 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.7 %RE @ 3.94 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 11:54 FLEST**



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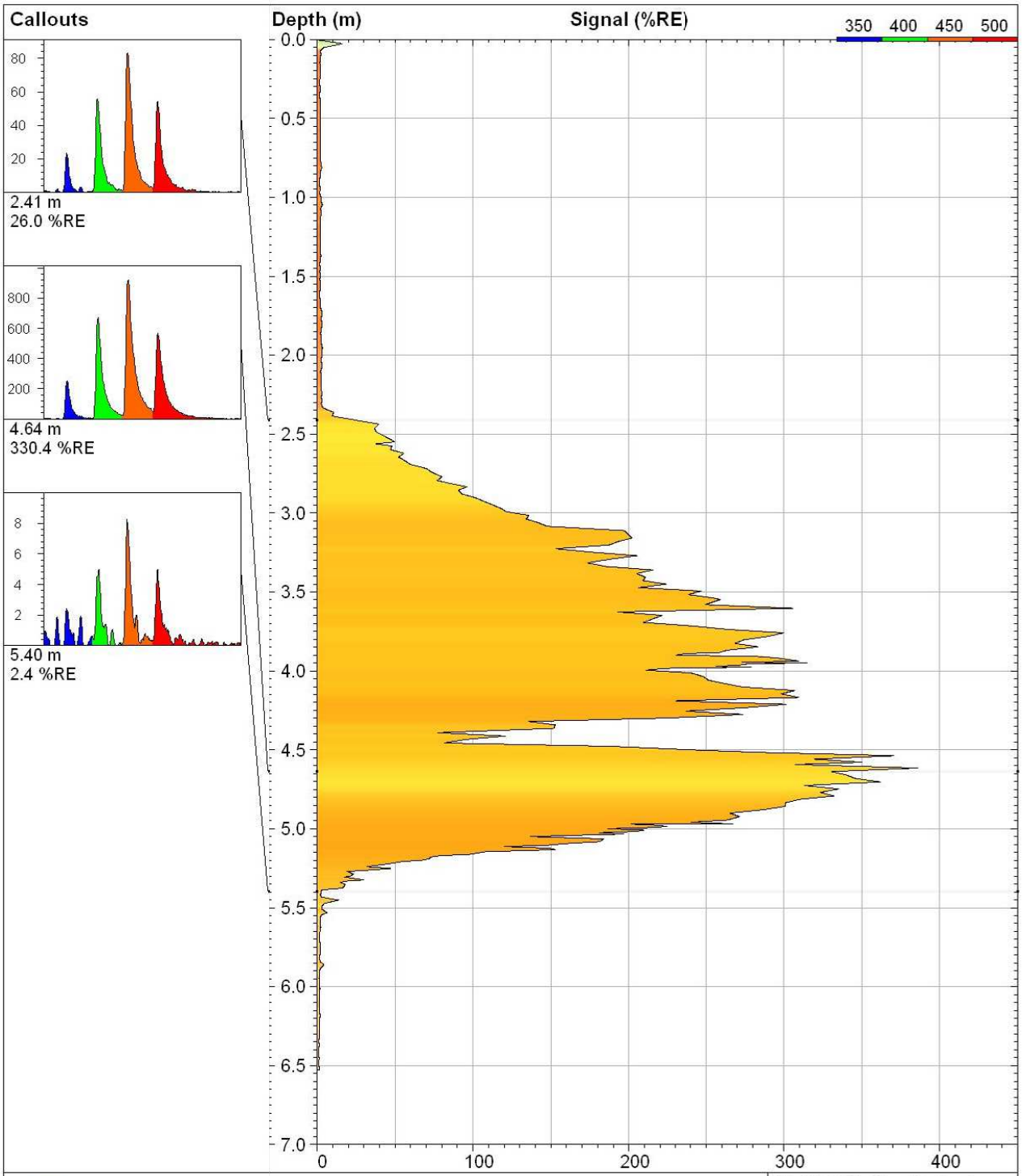
LIF_091		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.03 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **297.3 %RE @ 4.66 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 13:11 FLEST**



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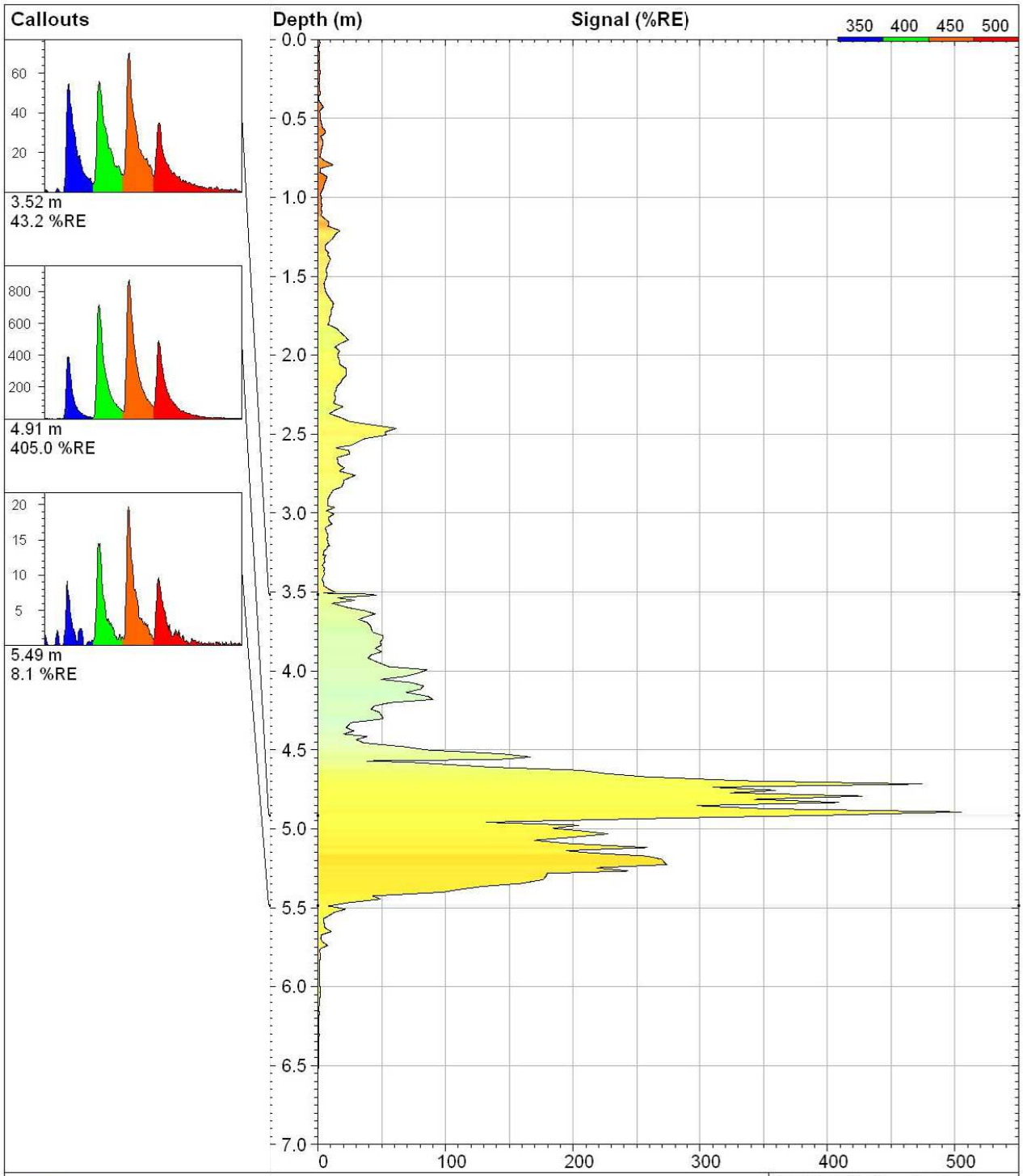
LIF_092		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.53 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **386.0 %RE @ 4.62 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 13:35 FLEST**



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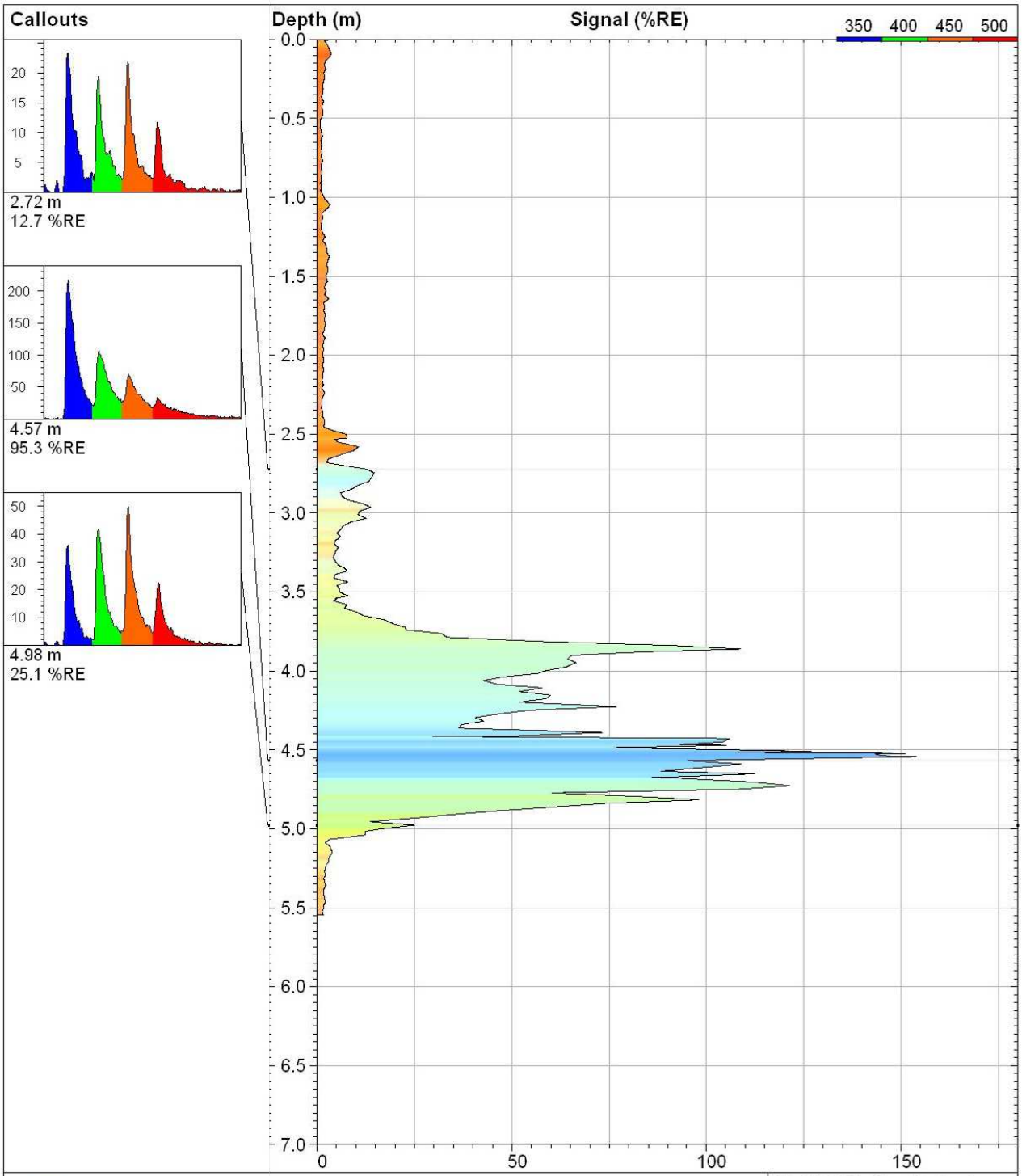
LIF_093		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.52 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **505.6 %RE @ 4.89 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 14:17 FLEST**



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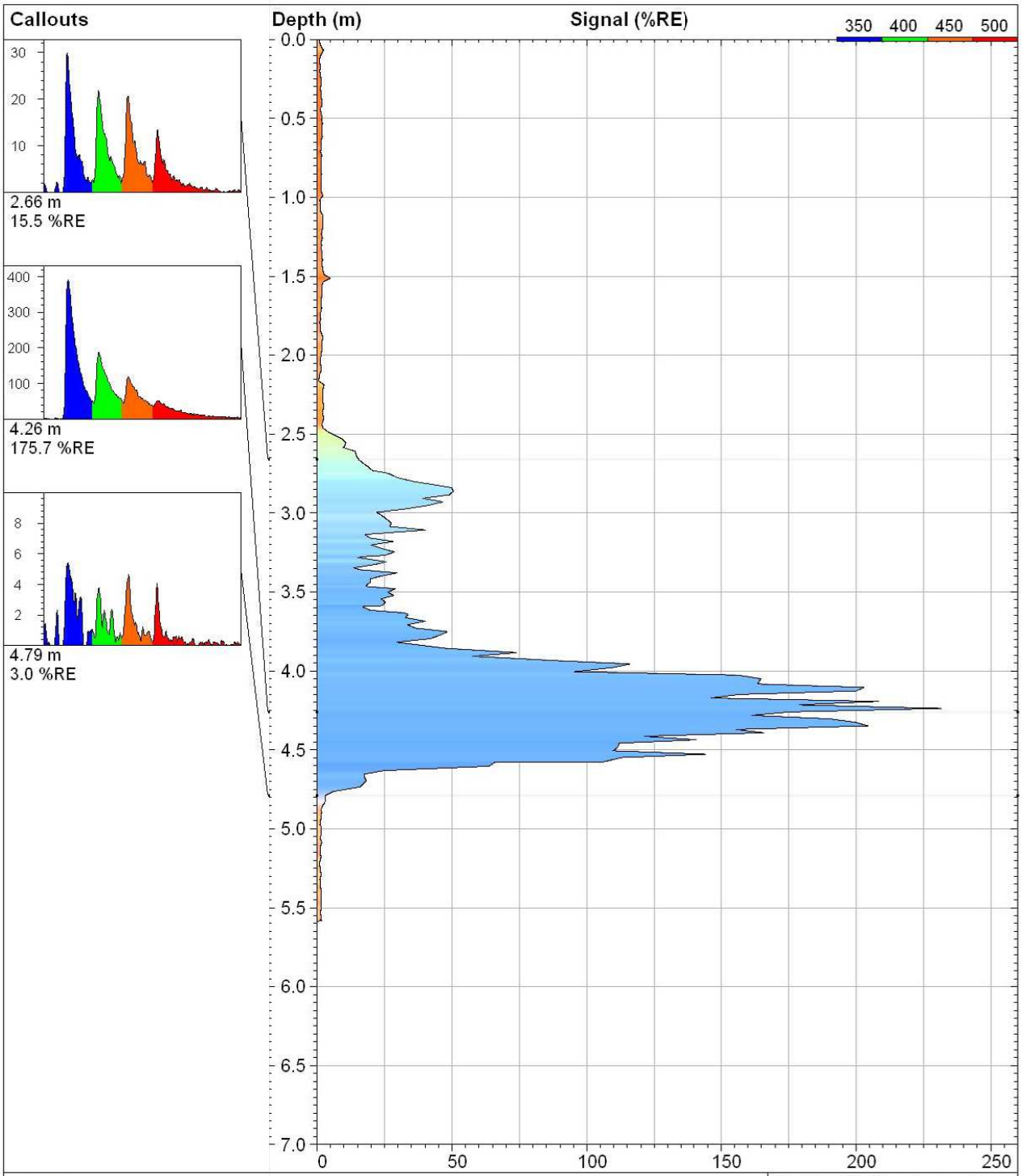
LIF_094		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.55 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **154.7 %RE @ 4.54 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 15:15 FLEST**



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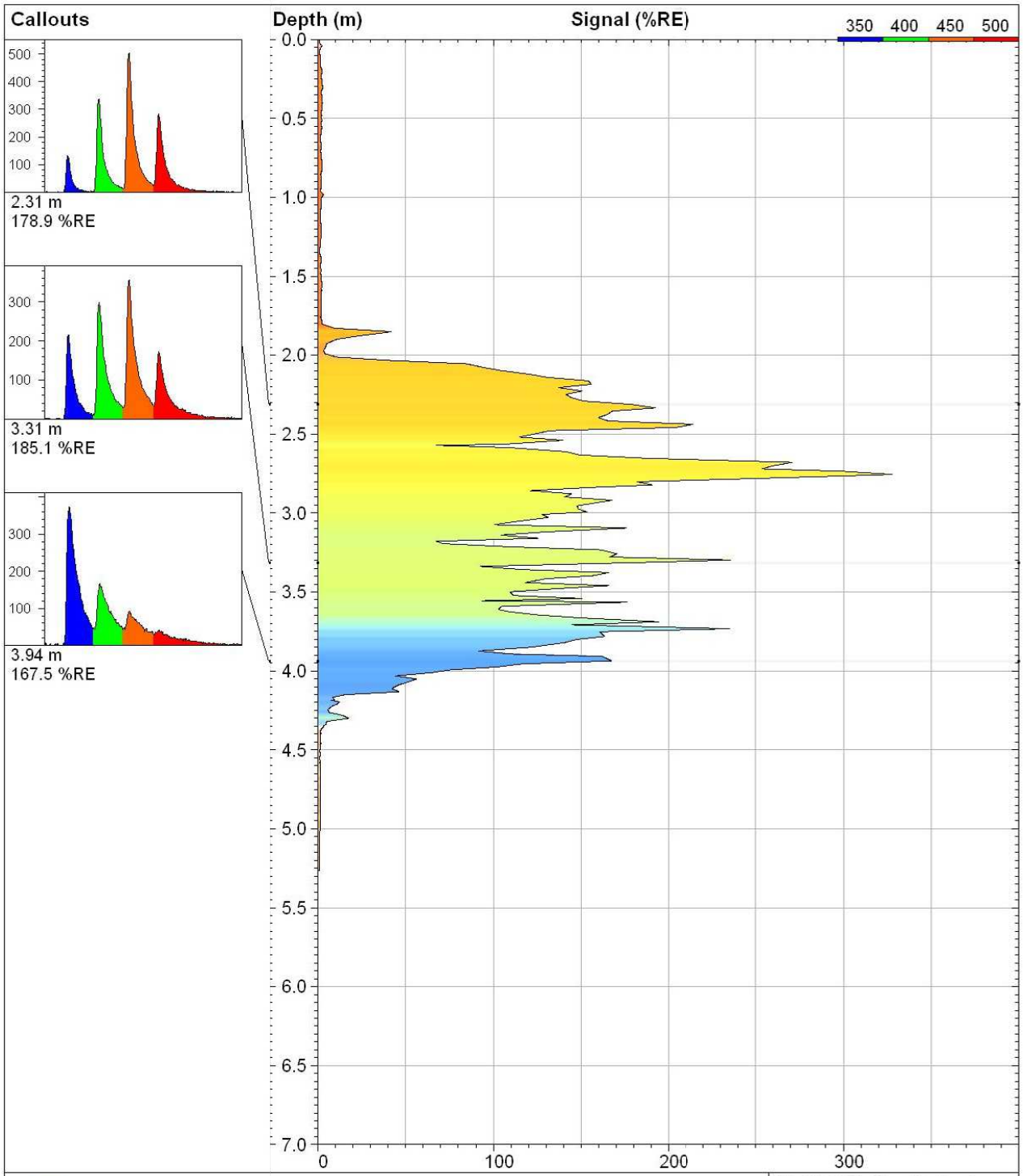
LIF_095		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.58 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **232.3 %RE @ 4.24 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 15:39 FLEST**



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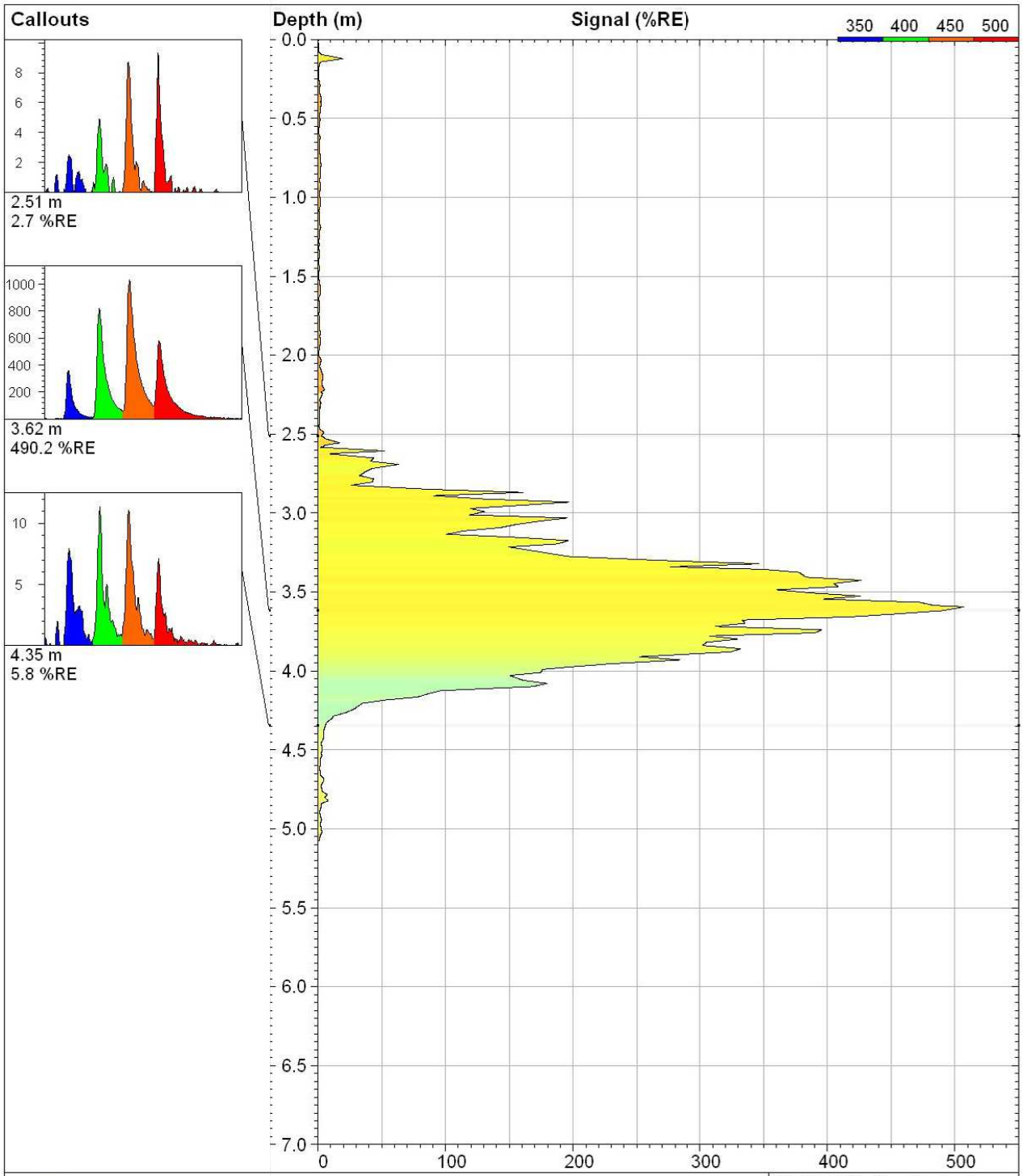
LIF_096		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.26 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **328.2 %RE @ 2.76 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-10 16:19 FLEST**



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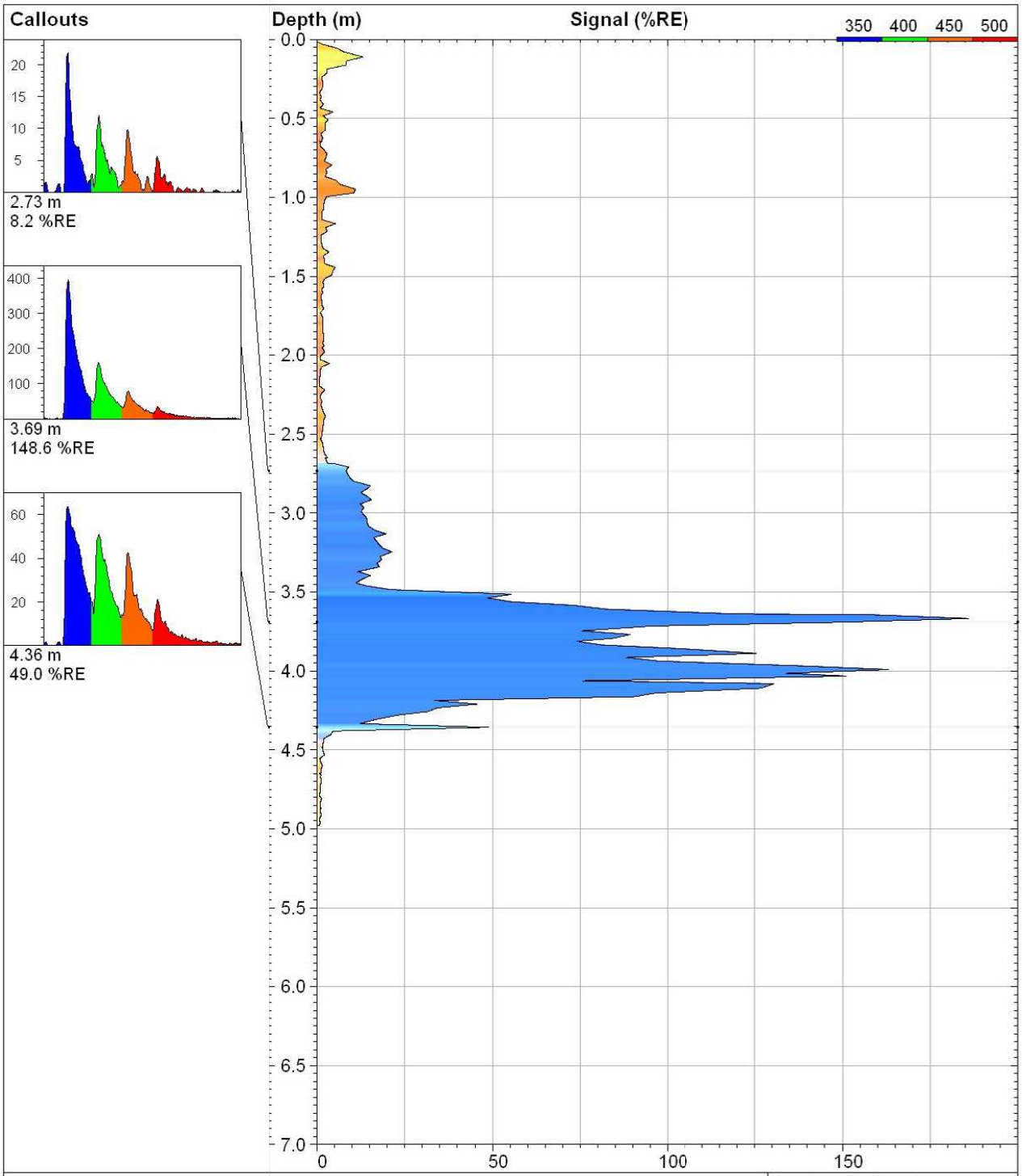
LIF_097		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.08 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **507.2 %RE @ 3.59 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 09:48 FLEST**



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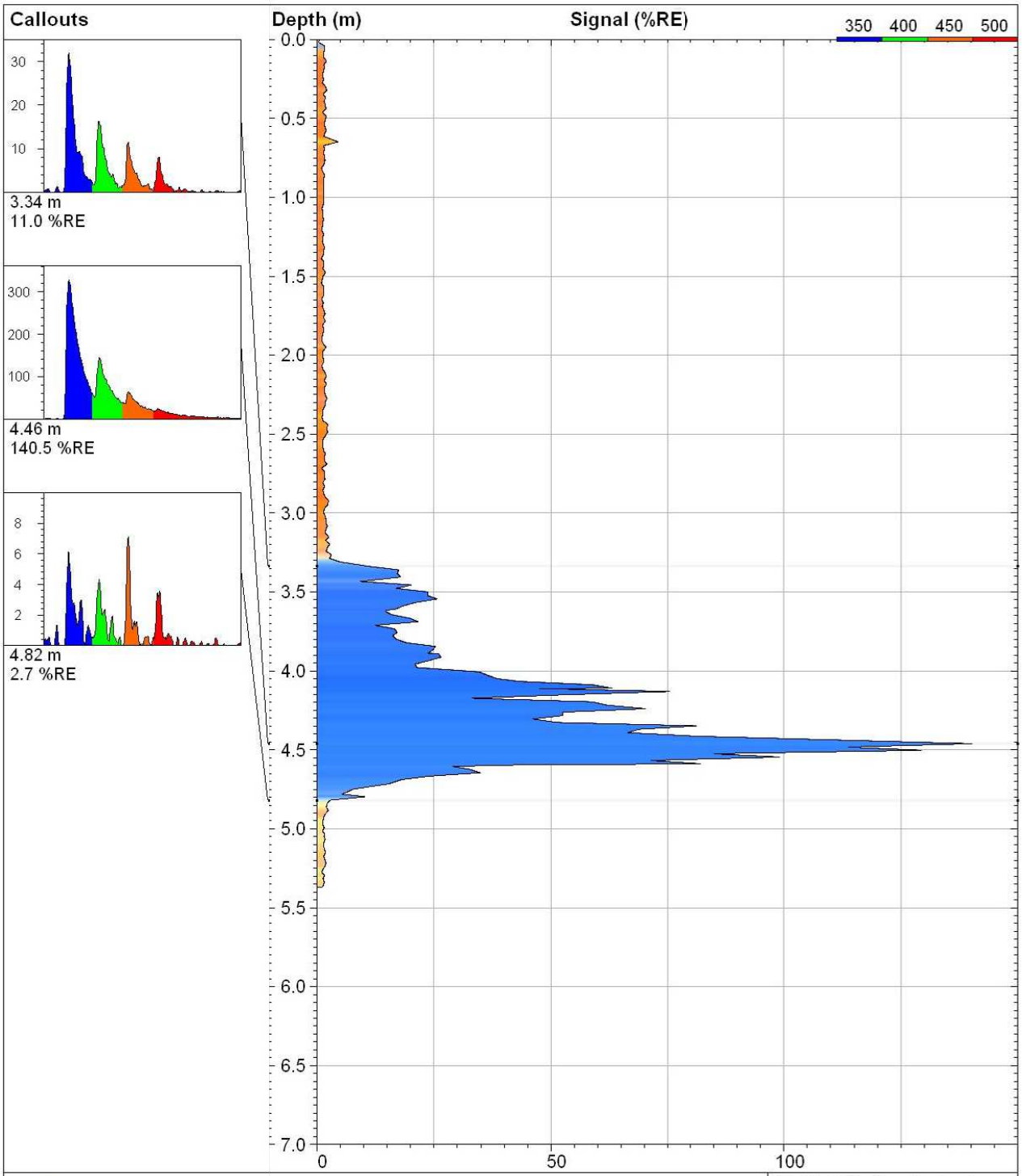
LIF_098		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.98 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **186.2 %RE @ 3.67 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 10:16 FLEST**



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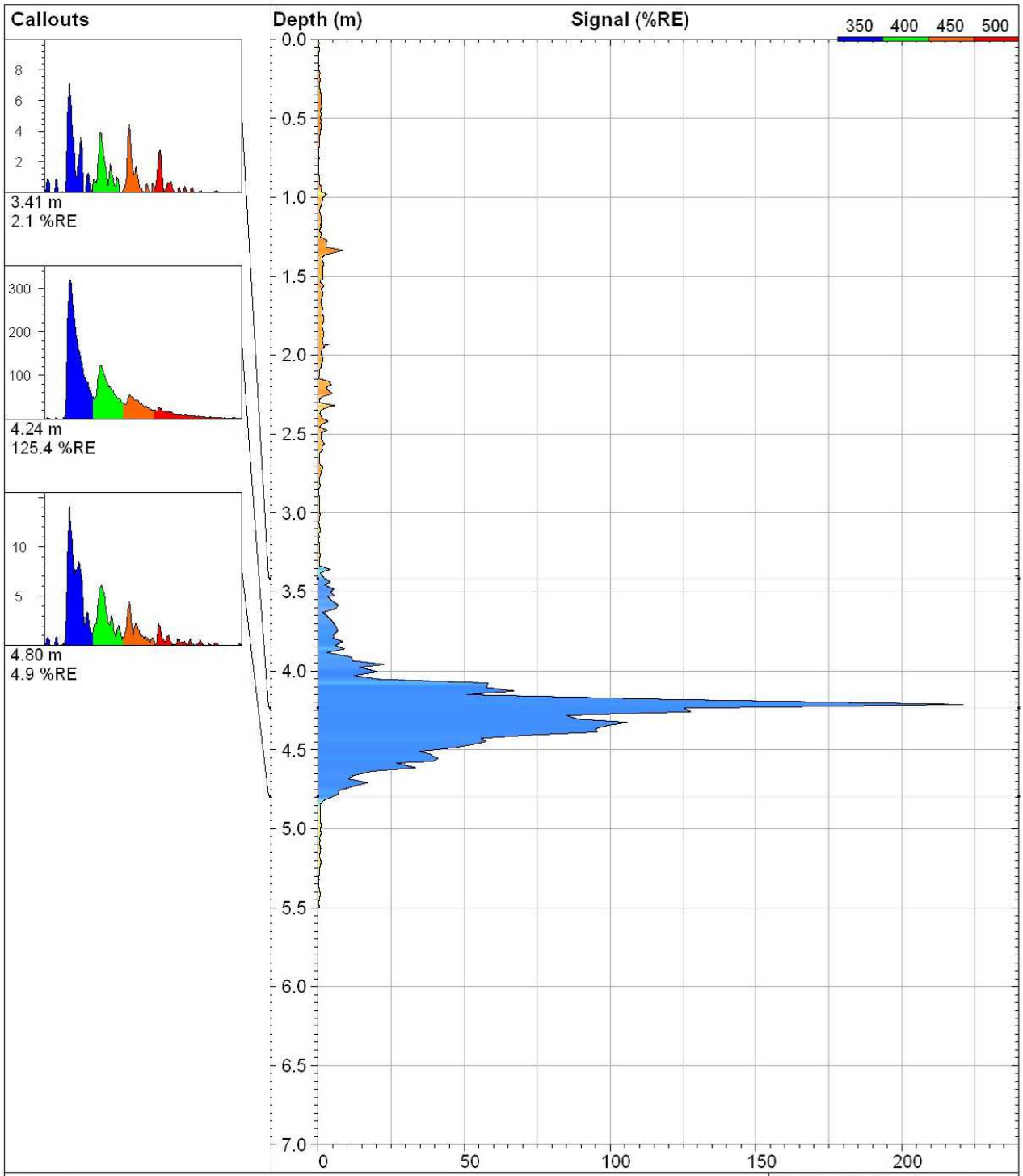
LIF_099		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.37 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **140.5 %RE @ 4.46 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 10:59 FLEST**



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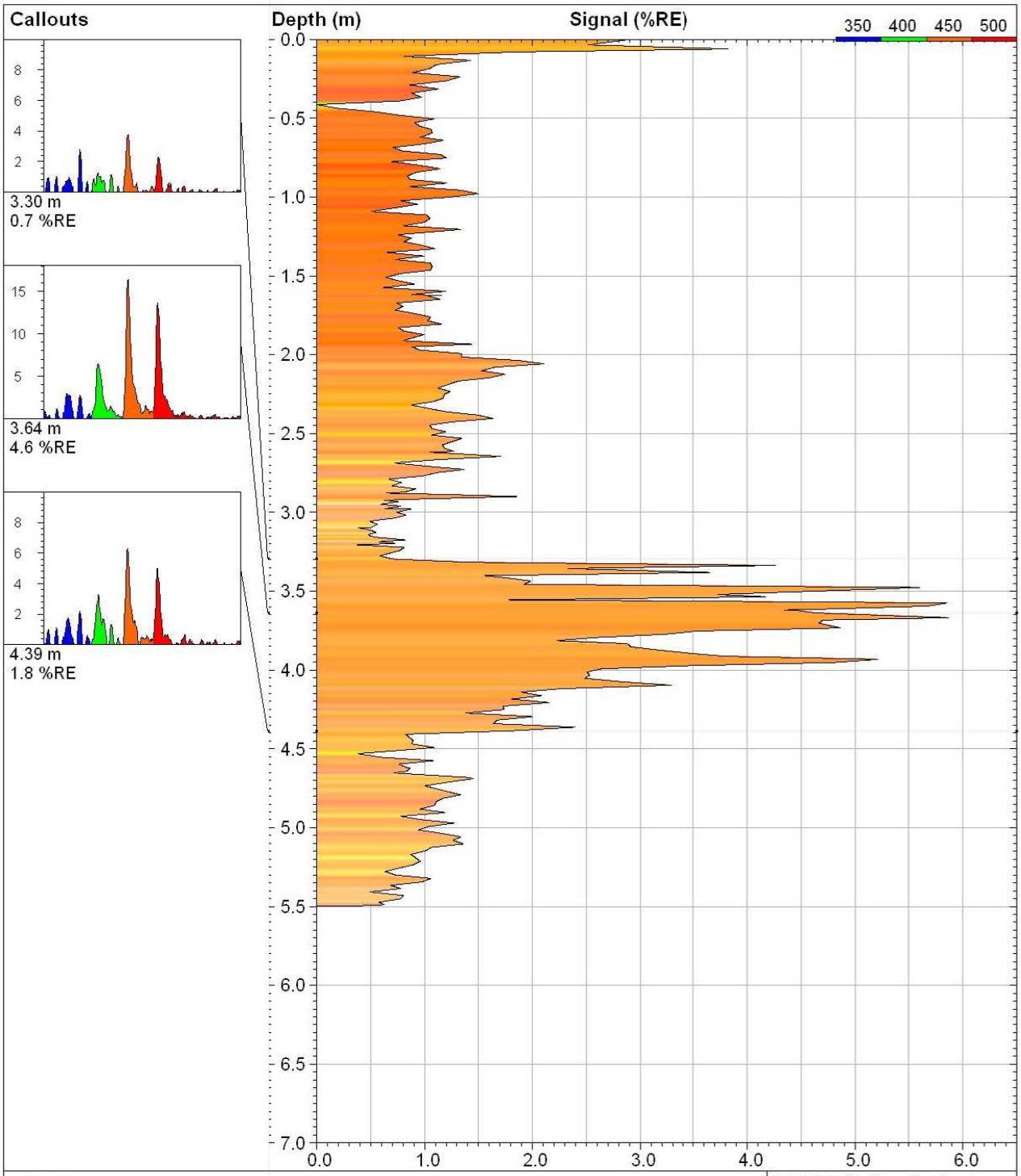
LIF_100		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.50 m**
Client / Job: /	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **221.2 %RE @ 4.21 m**
Operator / Unit: / **UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 11:36 FLEST**



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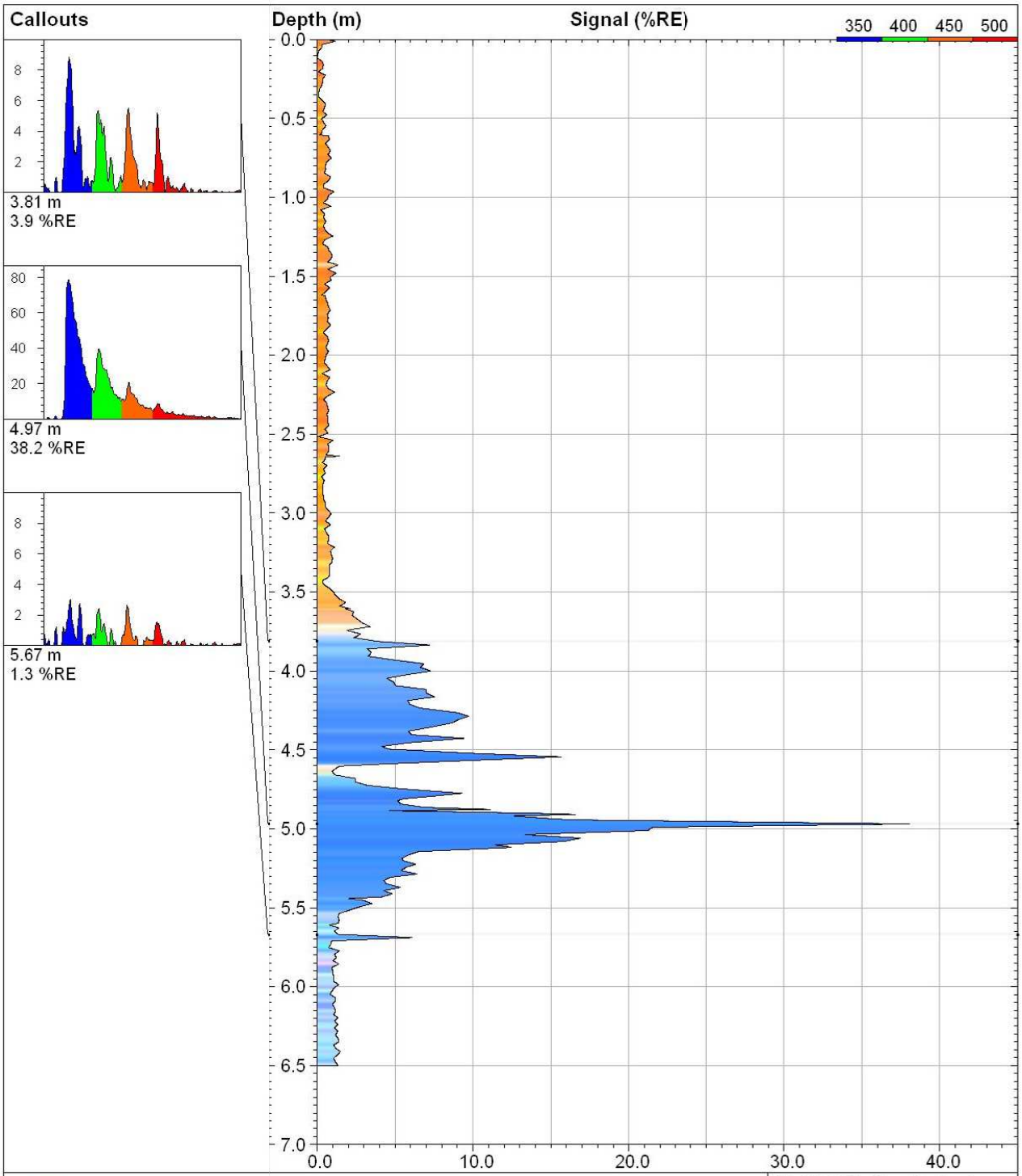
LIF_101		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.50 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.9 %RE @ 3.67 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 12:05 FLEST**



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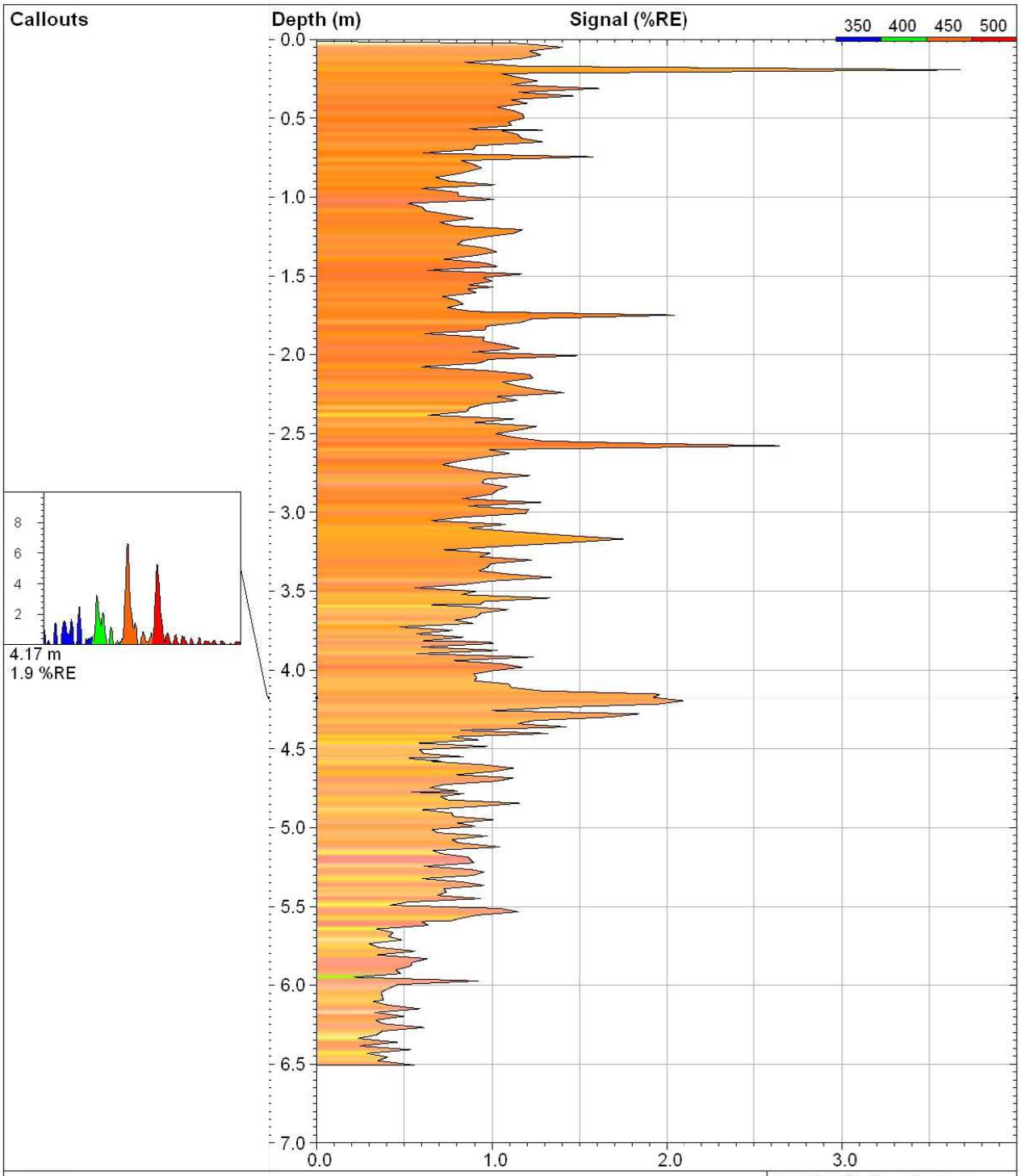
LIF_102		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.50 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **38.2 %RE @ 4.97 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 13:59 FLEST**



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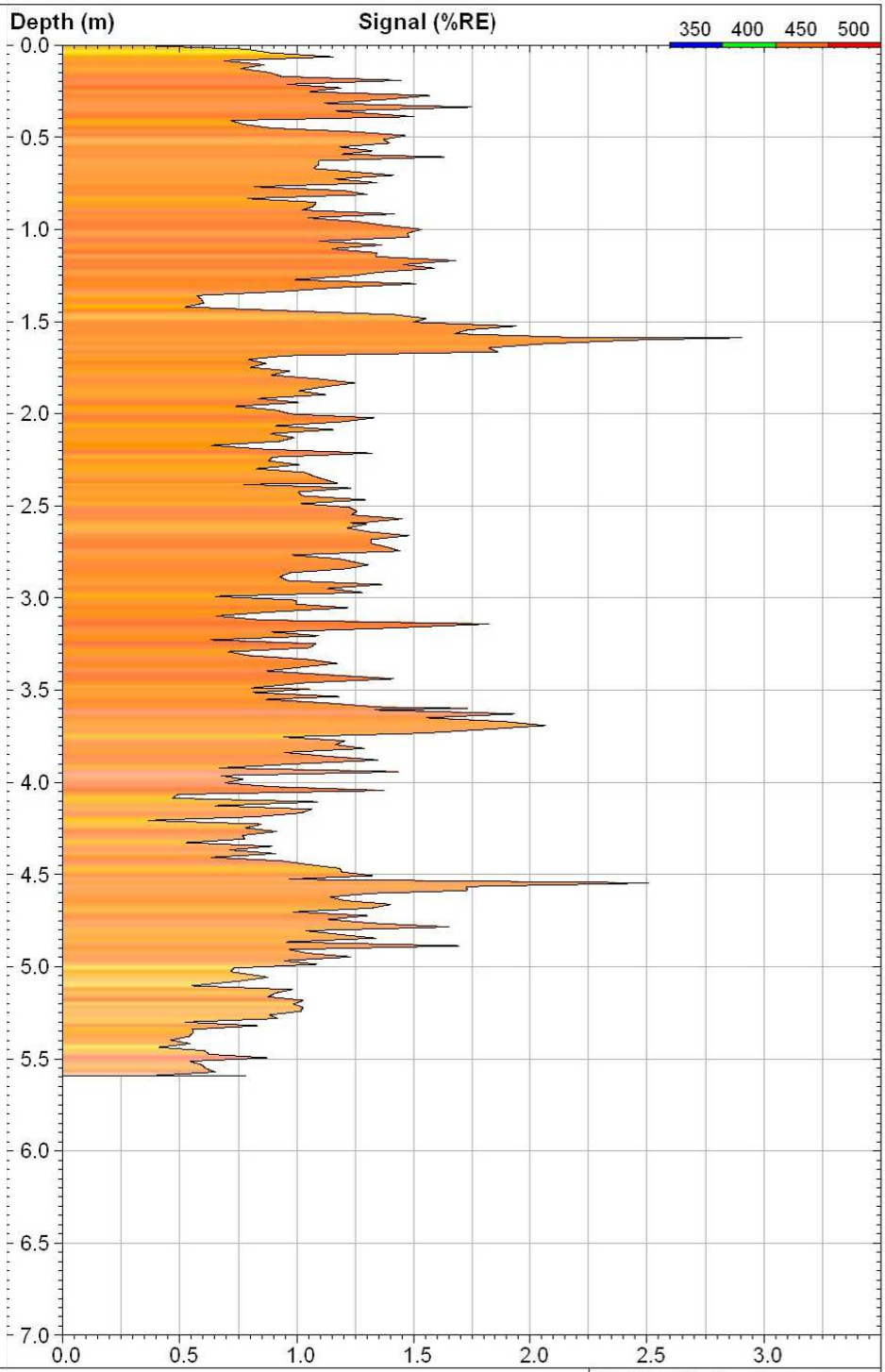
LIF_103		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.51 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **3.7 %RE @ 0.19 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 14:28 FLEST**

Callouts



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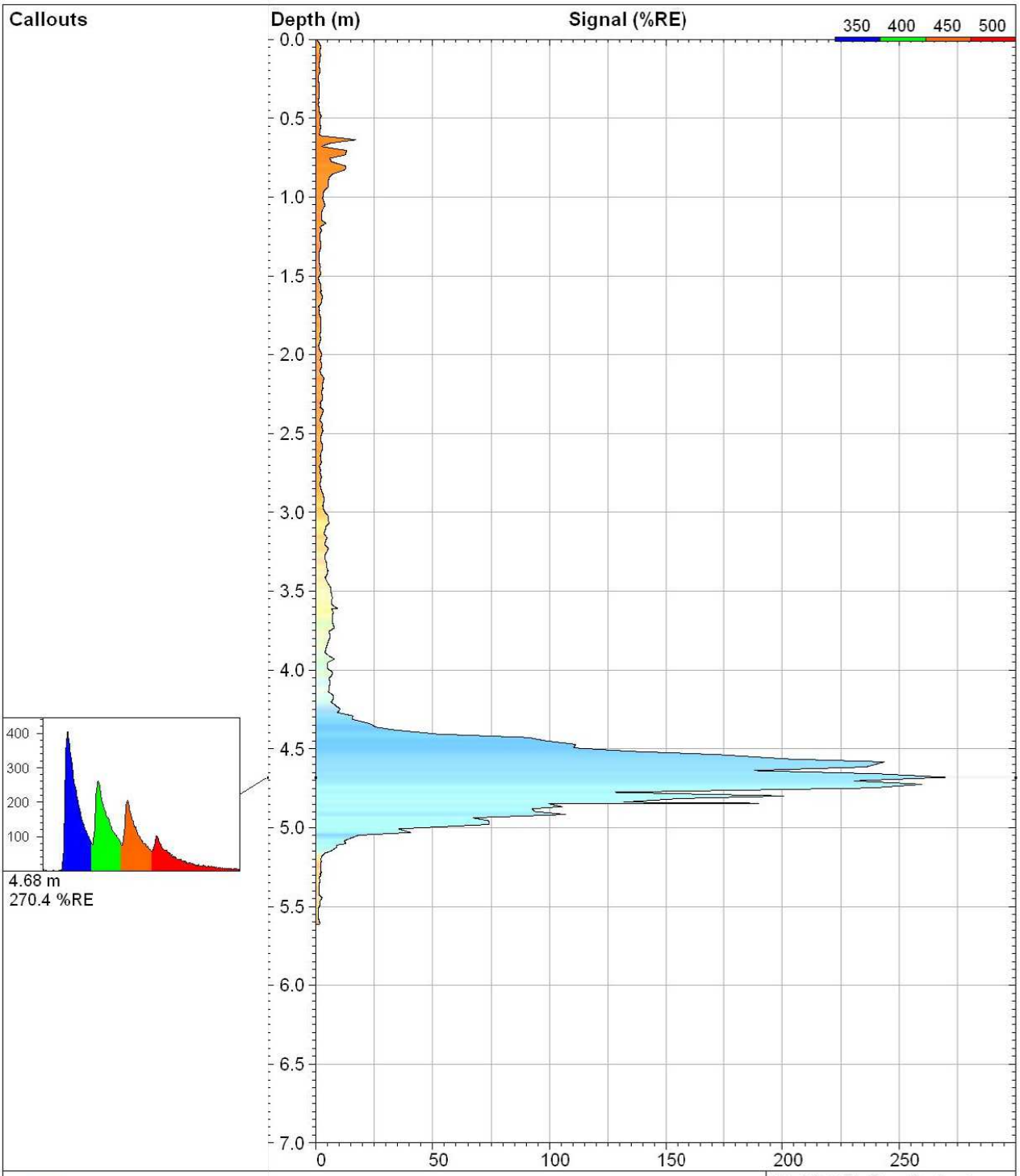
LIF_104		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.59 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **2.9 %RE @ 1.59 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 15:03 FLEST**



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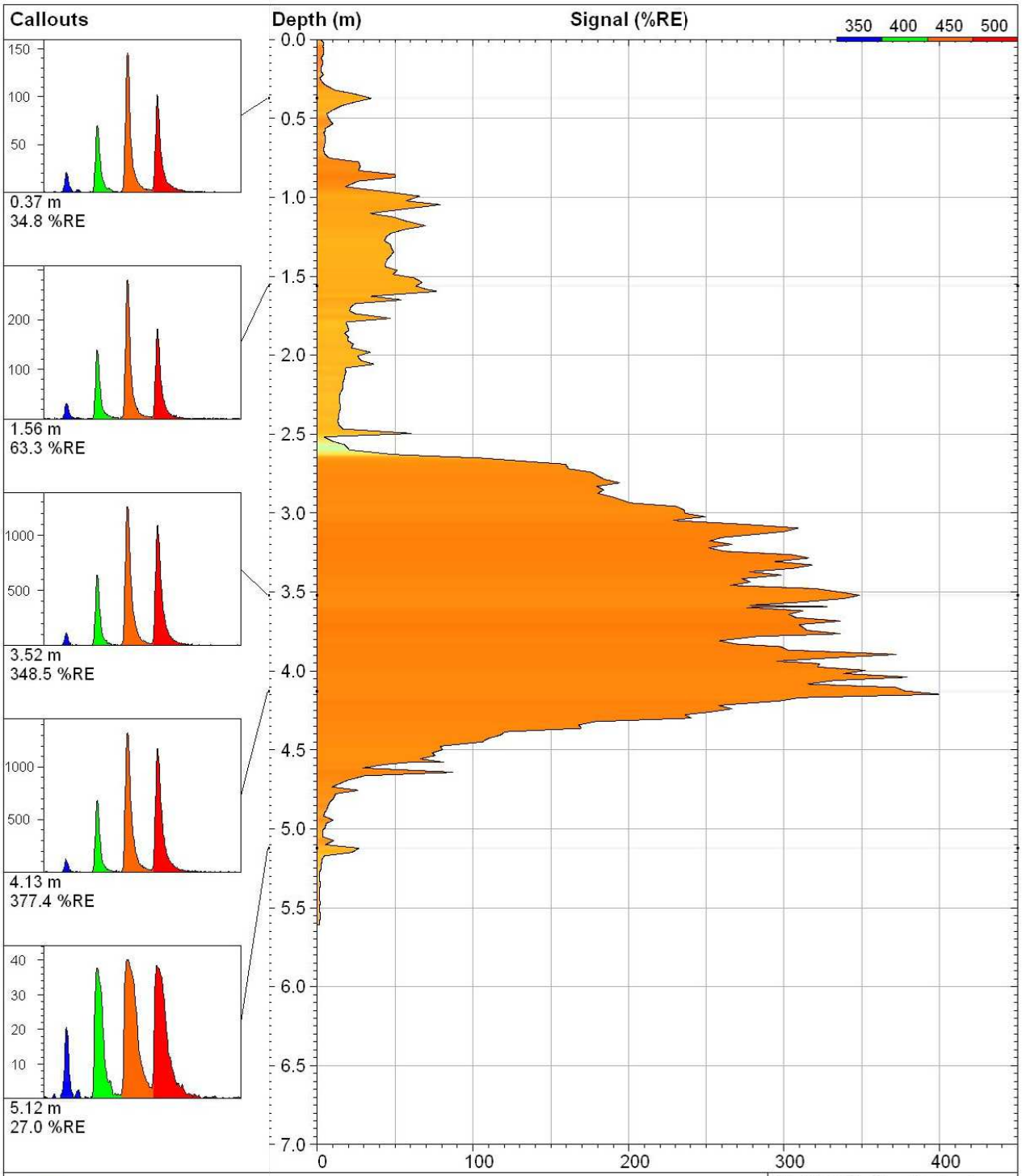
LIF_105		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.61 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **270.4 %RE @ 4.68 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 15:44 FLEST**



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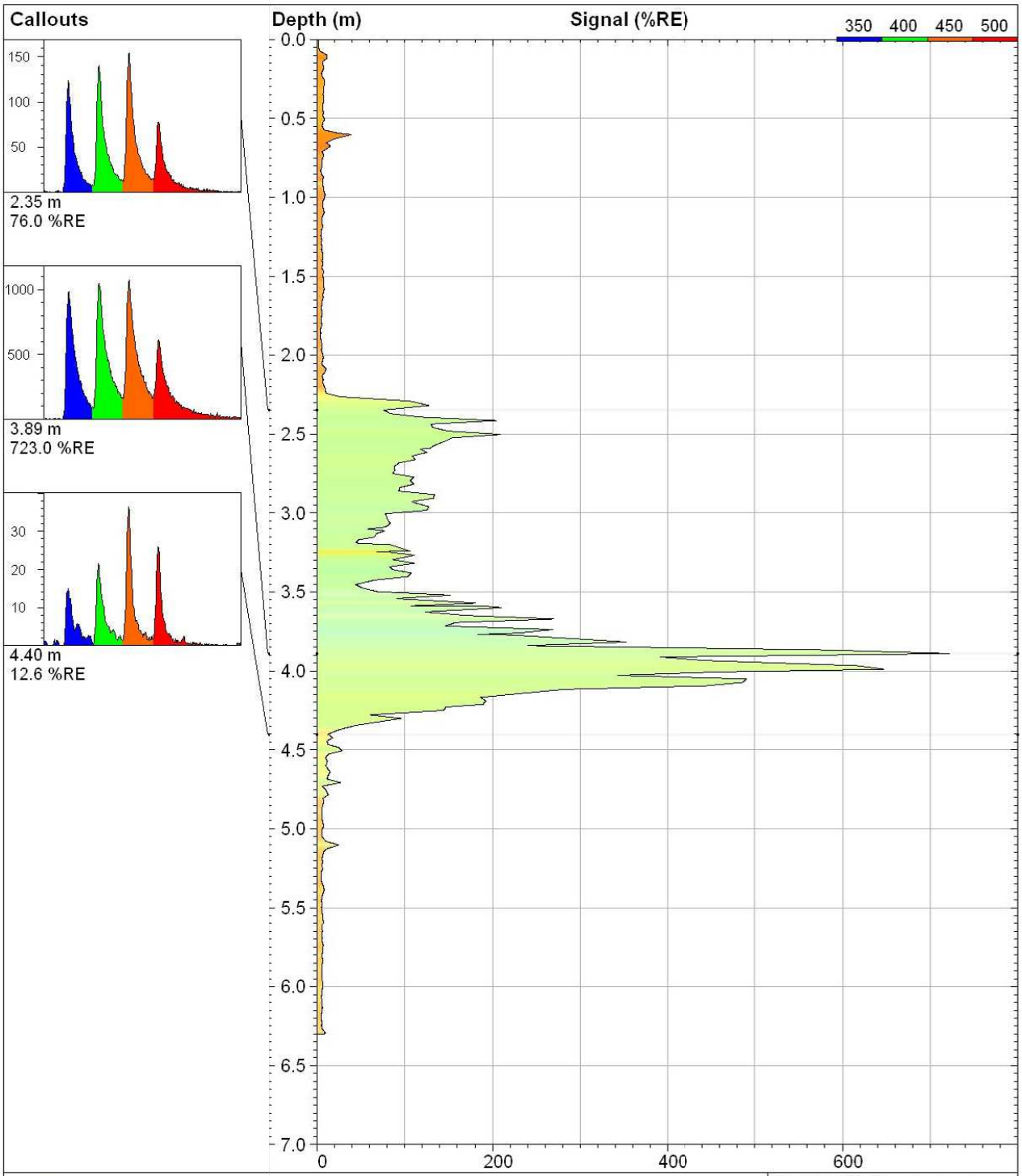
LIF_106		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.61 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **399.8 %RE @ 4.15 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-11 16:16 FLEST**



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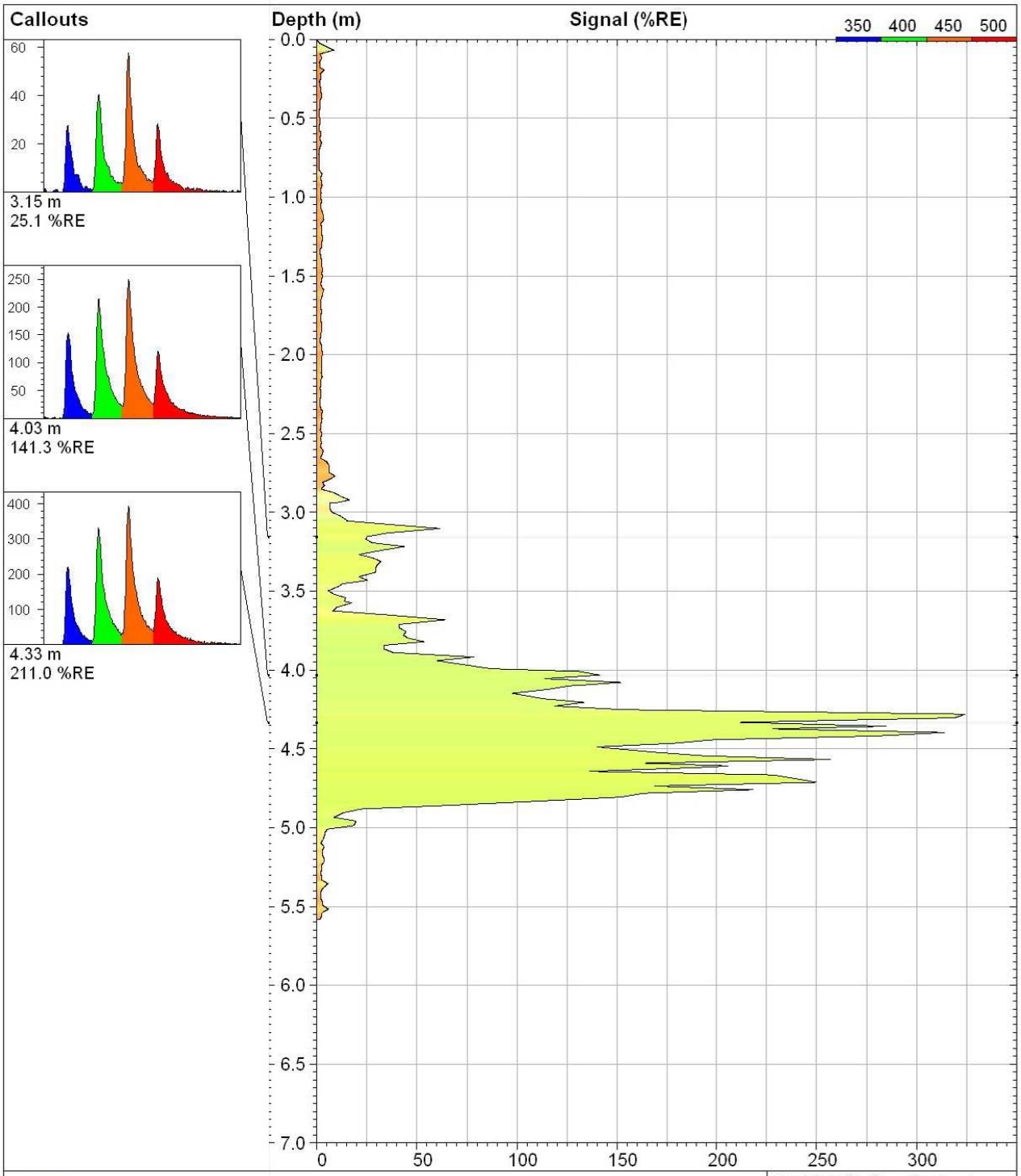
LIF_107		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.30 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **723.0 %RE @ 3.89 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 09:30 FLEST**



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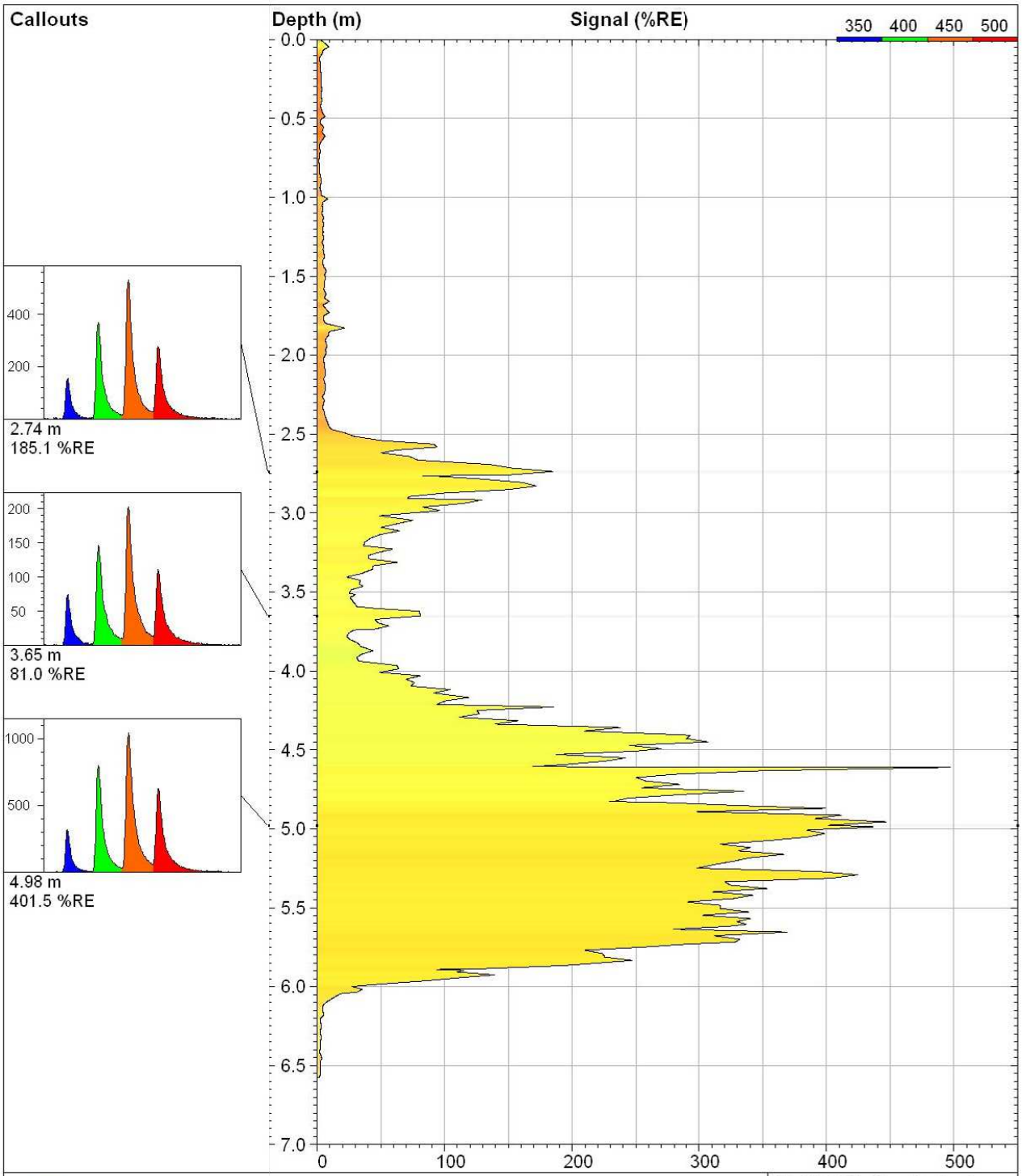
LIF_108		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.58 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **324.3 %RE @ 4.28 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 10:04 FLEST**



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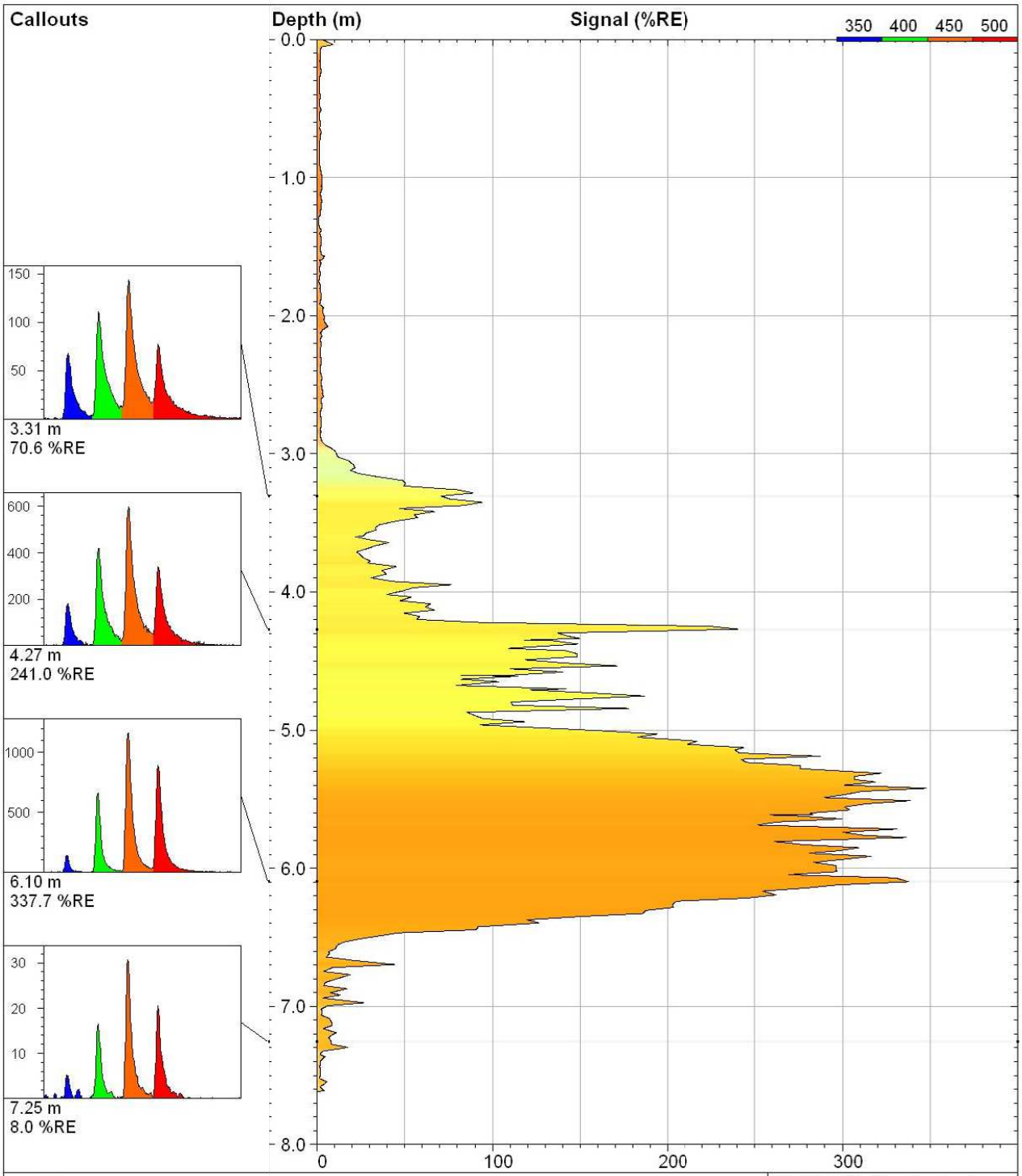
LIF_109		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.57 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **497.1 %RE @ 4.61 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 10:30 FLEST**



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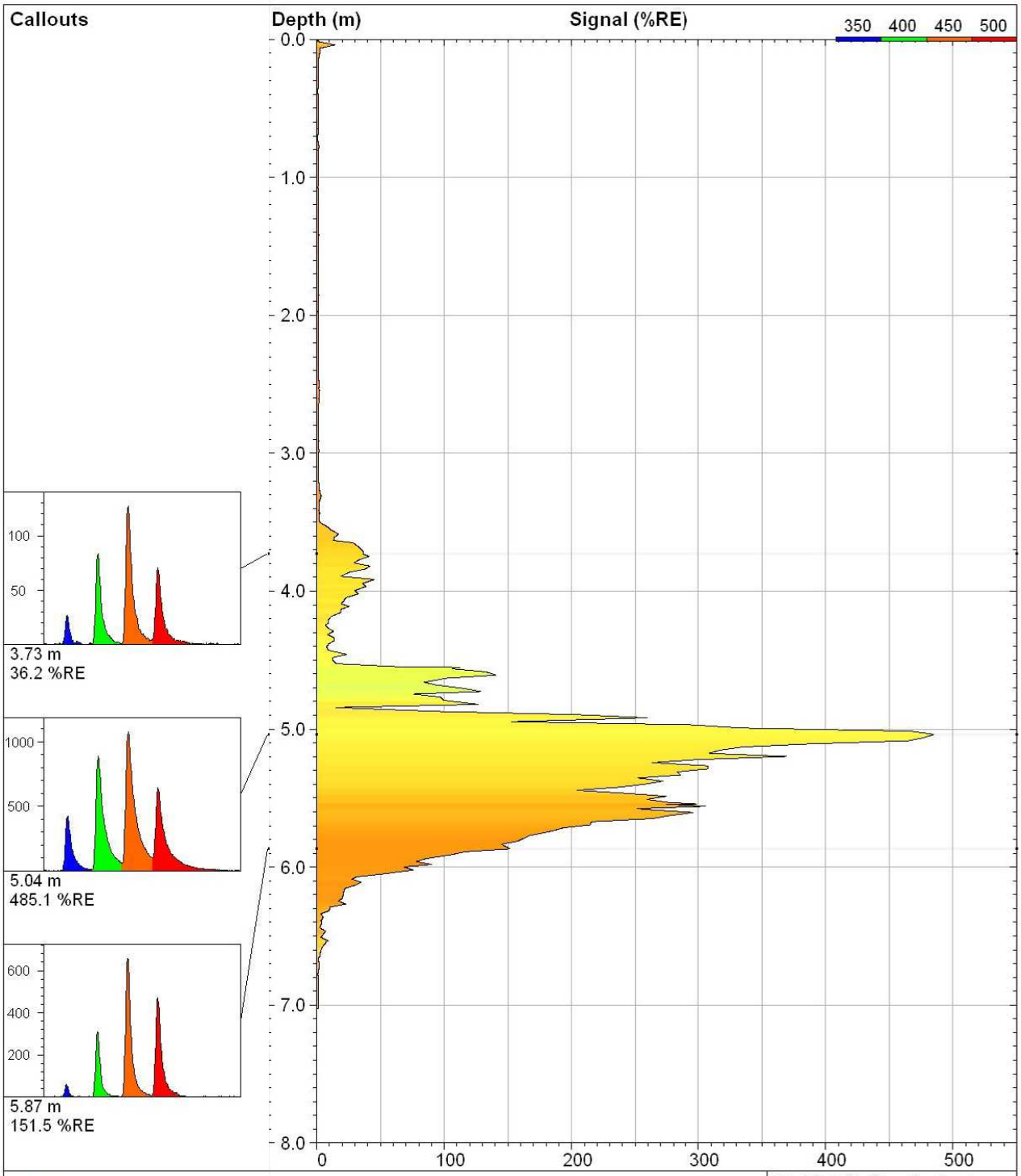
LIF_110		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.61 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **348.7 %RE @ 5.42 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 11:09 FLEST**



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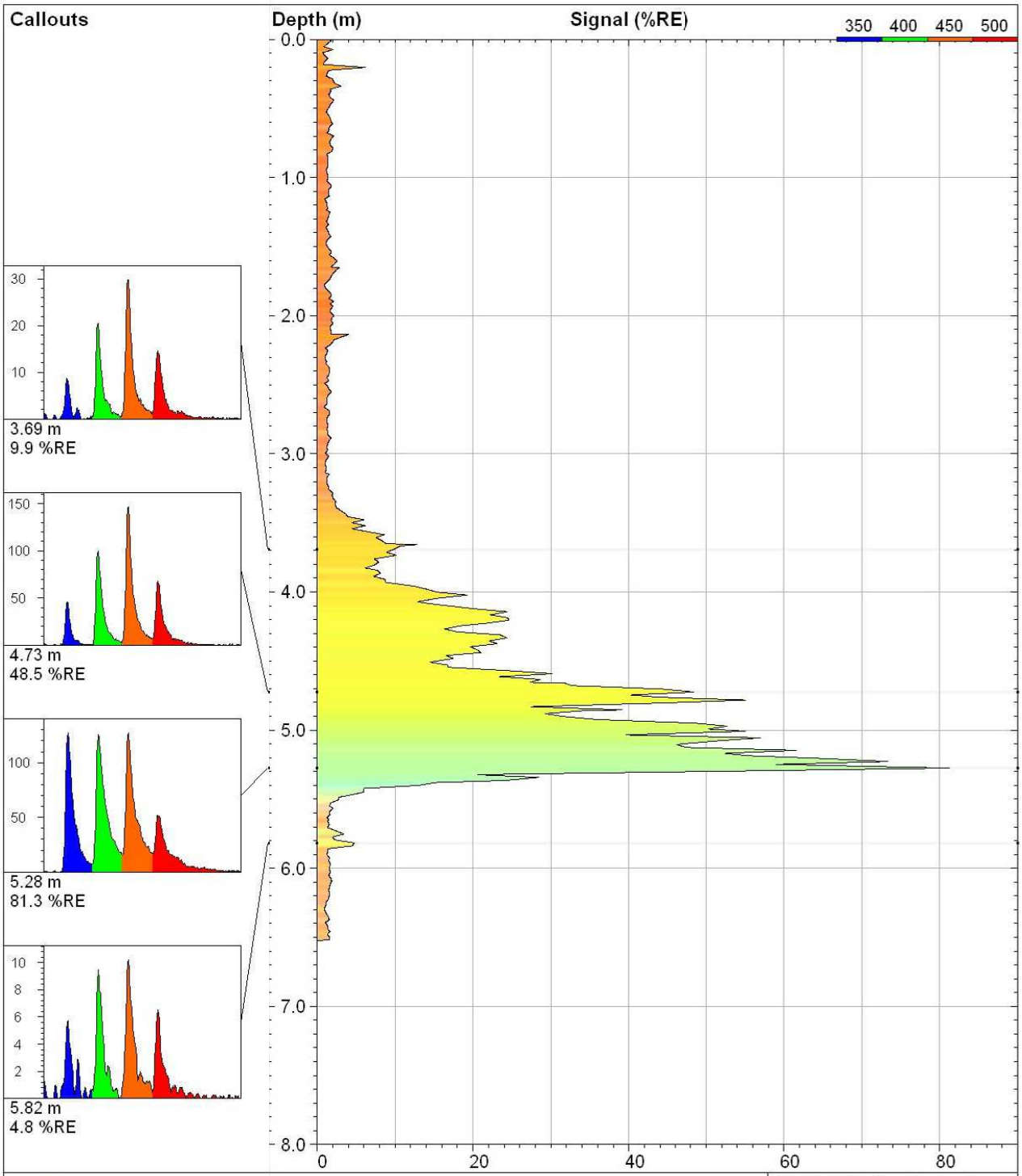
LIF_111		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.02 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **485.1 %RE @ 5.04 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 11:49 FLEST**



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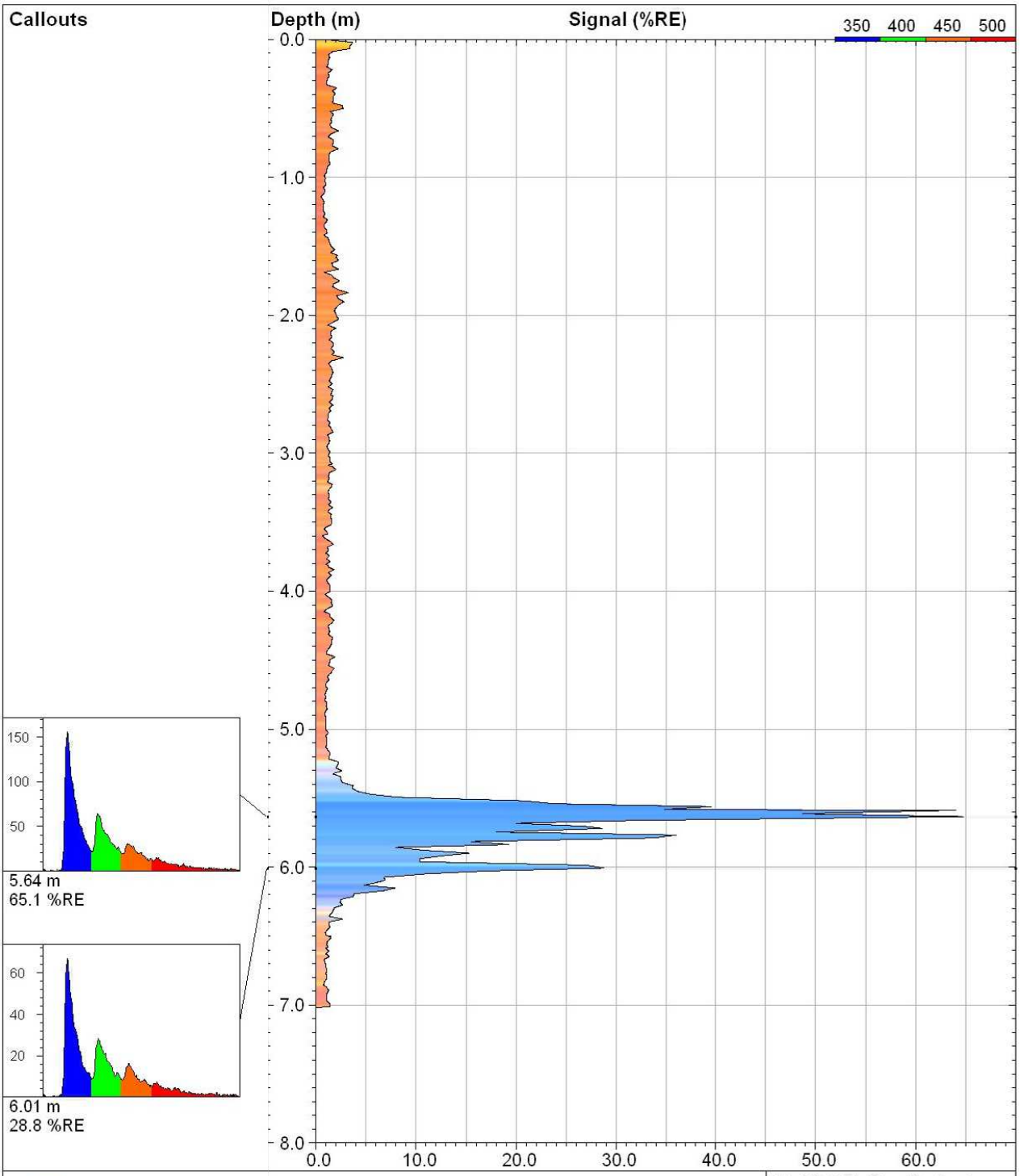
LIF_112		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.52 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **81.3 %RE @ 5.28 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 13:53 FLEST**



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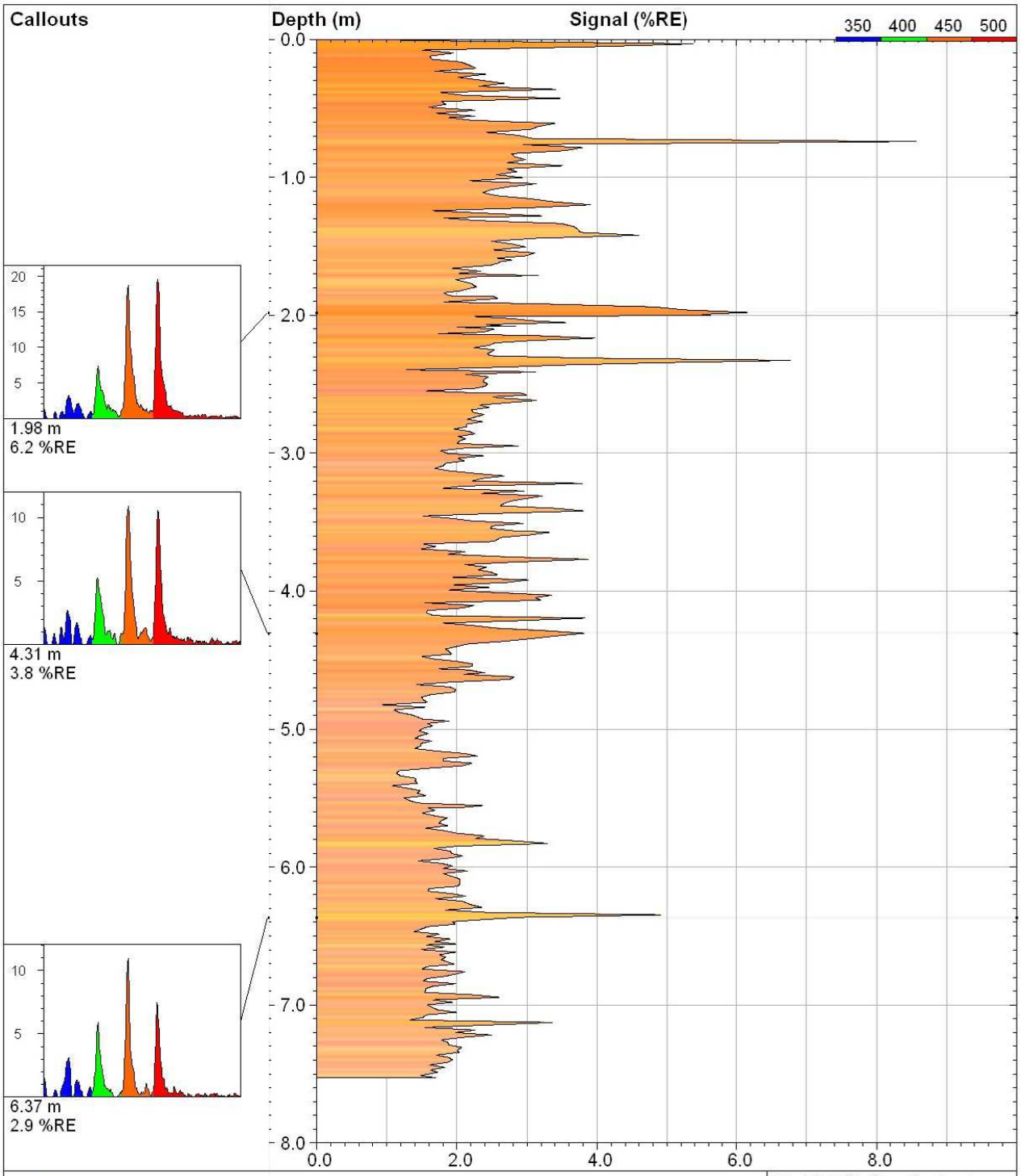
LIF_113		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.02 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **65.1 %RE @ 5.63 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 14:19 FLEST**



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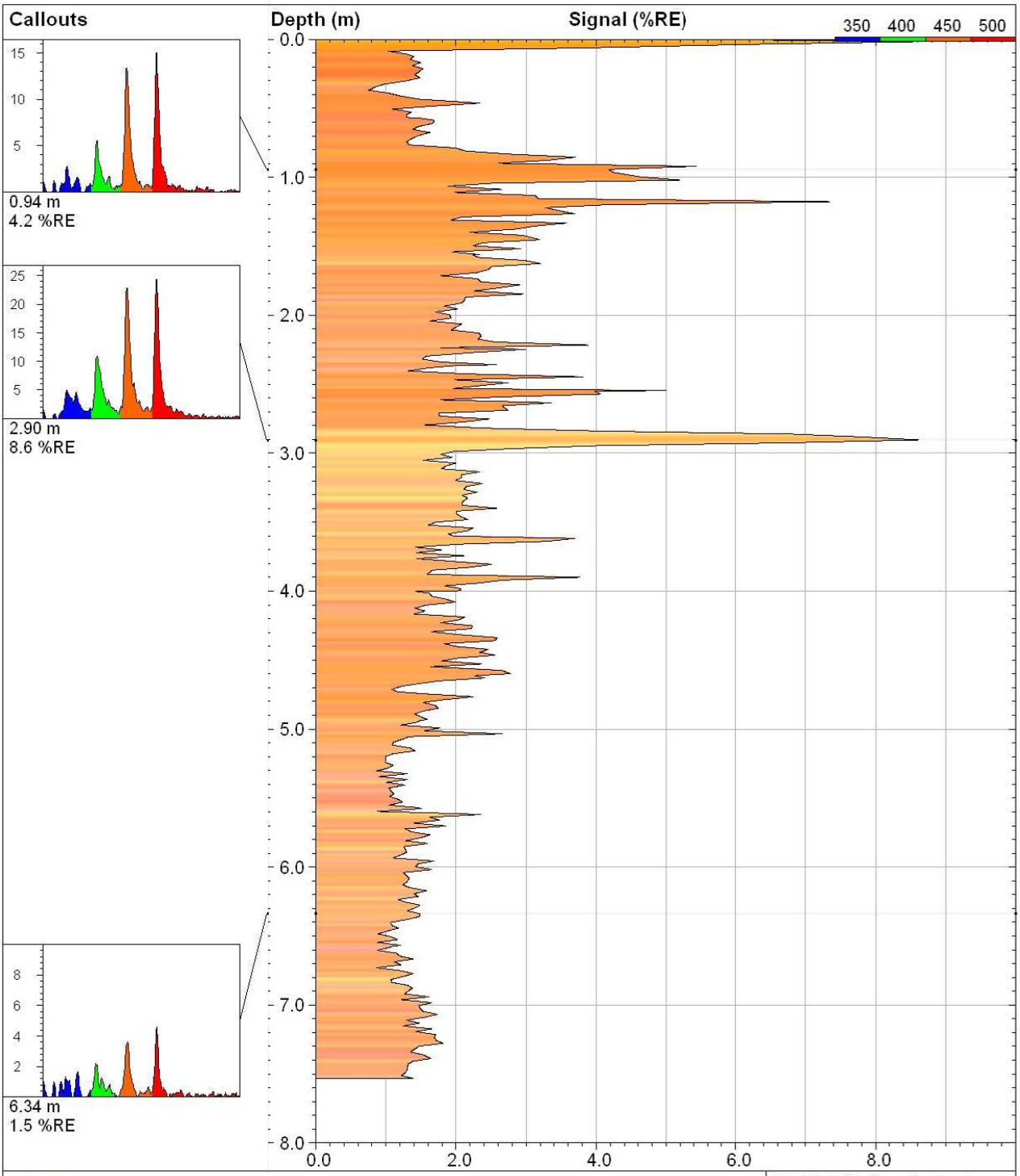
LIF_114		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.53 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.6 %RE @ 0.74 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 14:59 FLEST**



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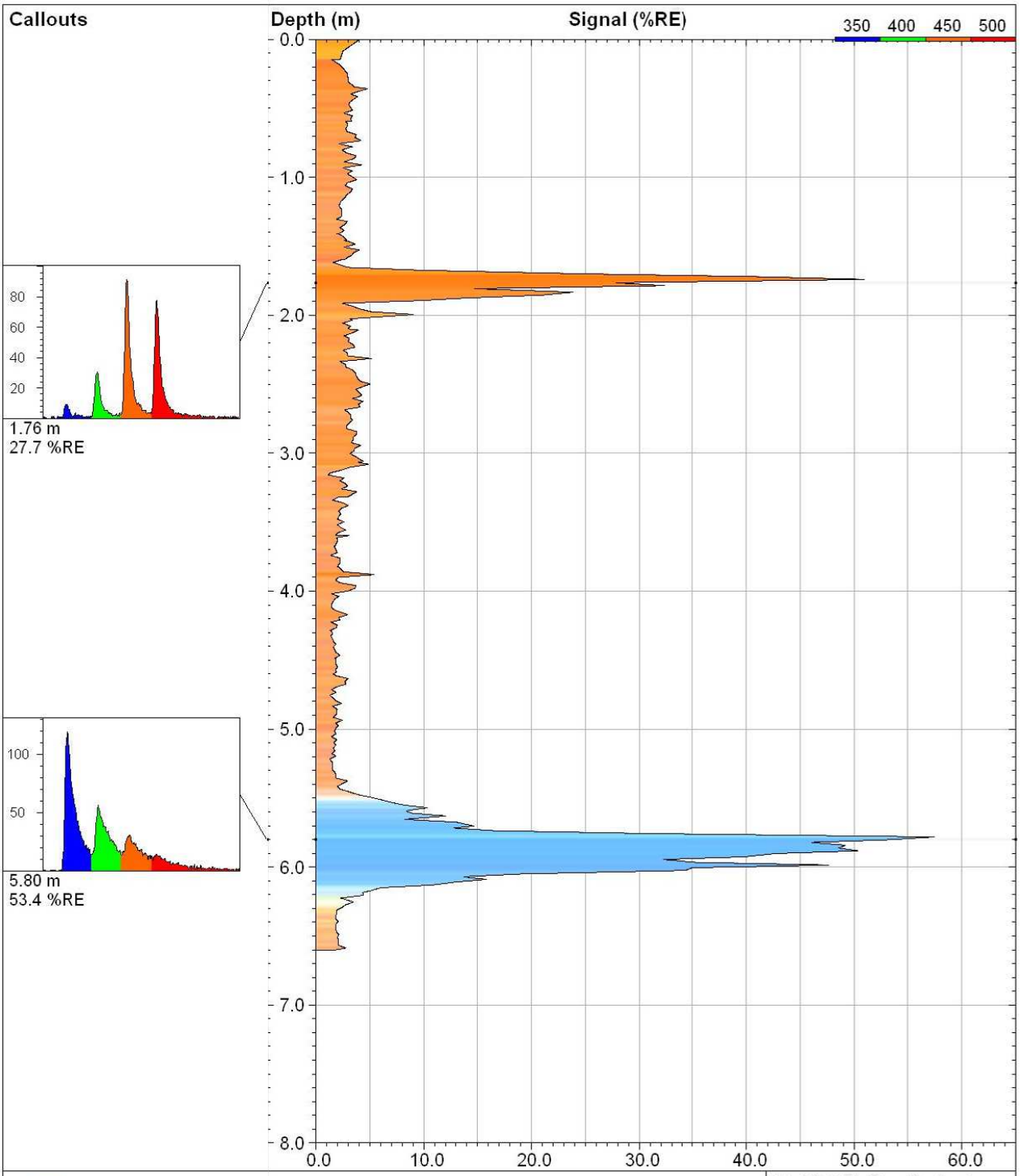
LIF_115		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.53 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **8.9 %RE @ 0.02 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 15:37 FLEST**



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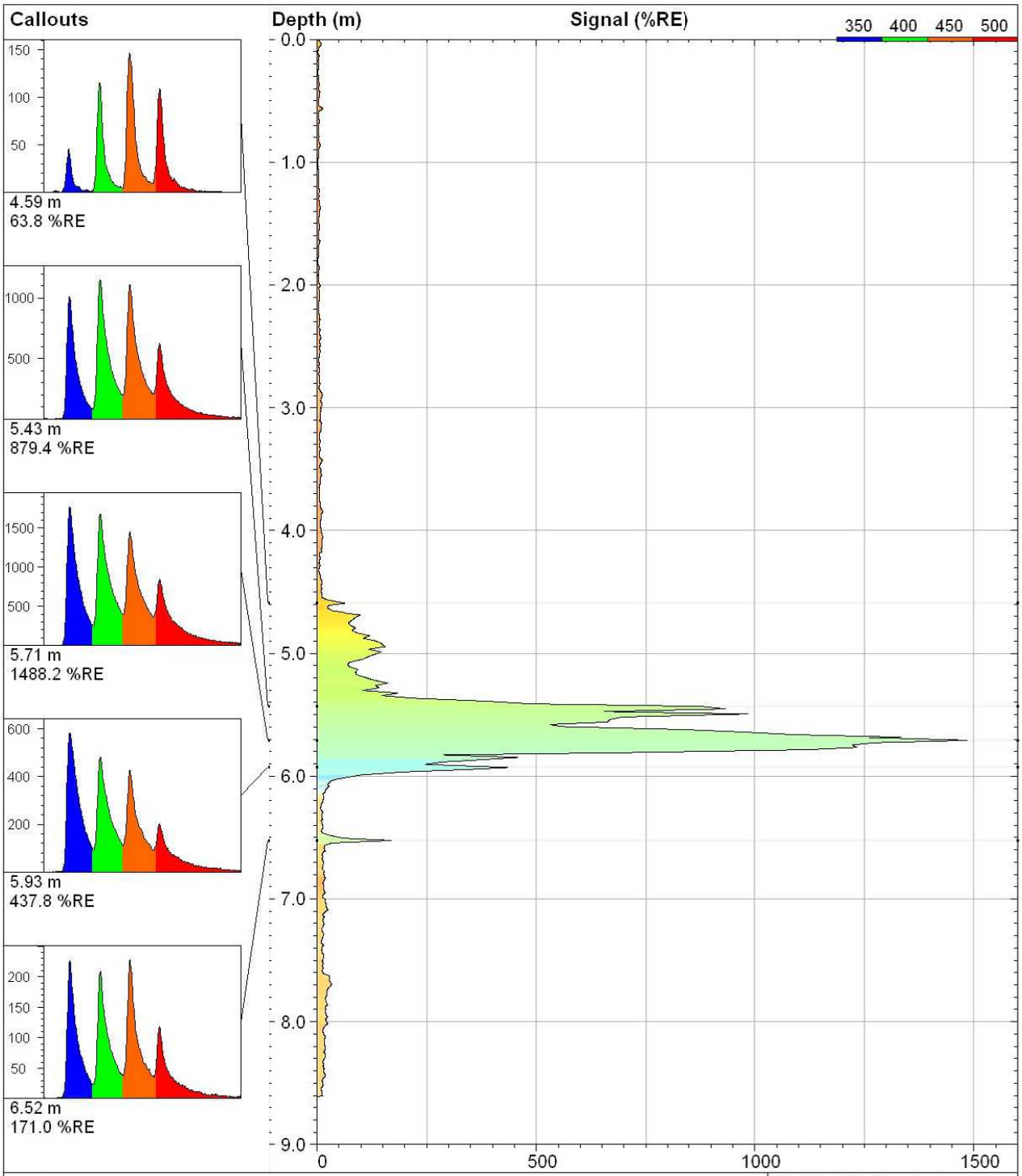
LIF_116		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.60 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **57.5 %RE @ 5.78 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-12 16:13 FLEST**



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LIF_117

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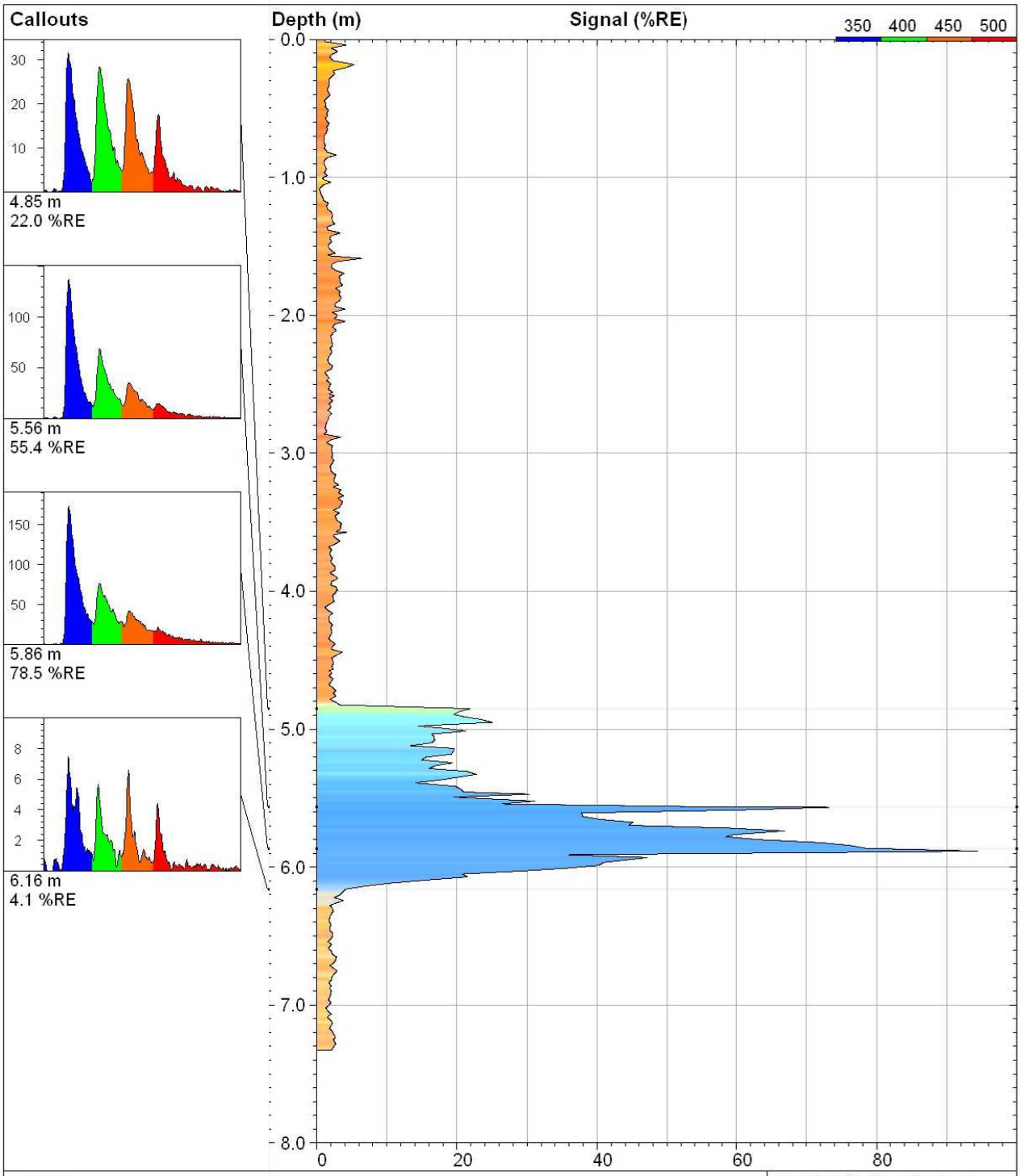
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **8.61 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **1488.2 %RE @ 5.71 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-13 09:35 FLEST**



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LIF_118

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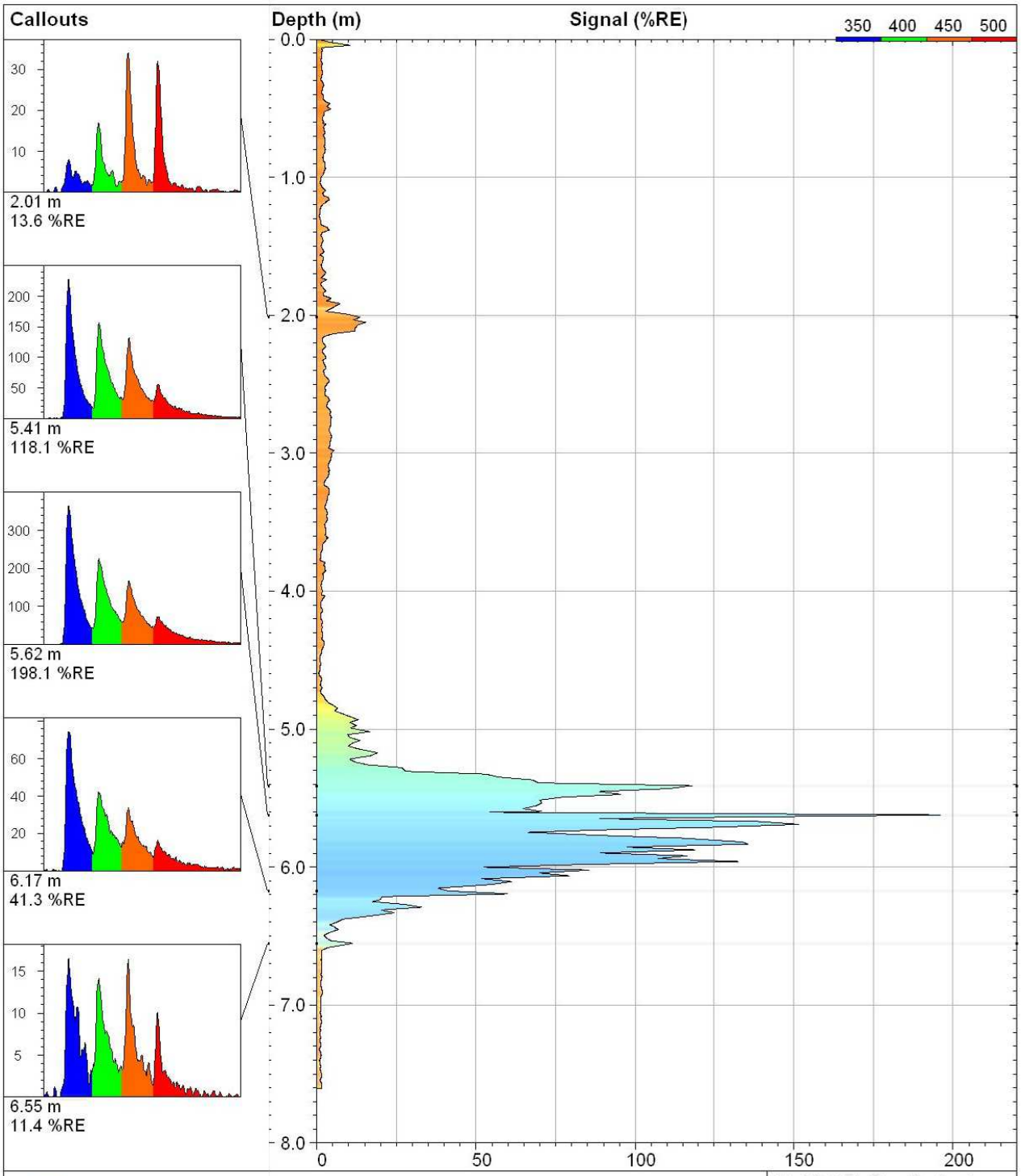
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.33 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **94.6 %RE @ 5.88 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-13 10:12 FLEST**



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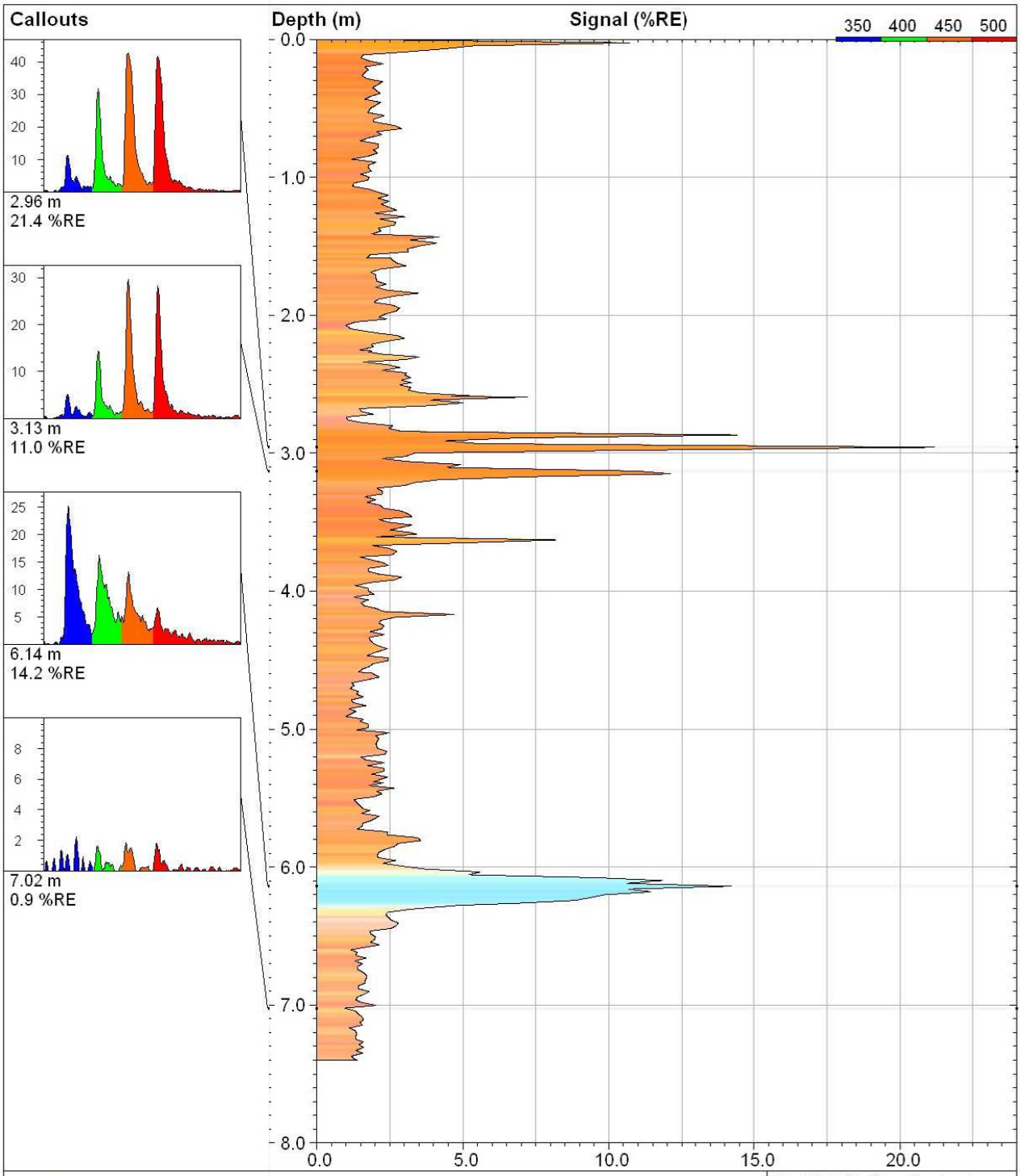
LIF_119		UVOST By Dakota www.DakotaTechnologies.com
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.61 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **198.1 %RE @ 5.62 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-13 10:52 FLEST**



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LIF_120

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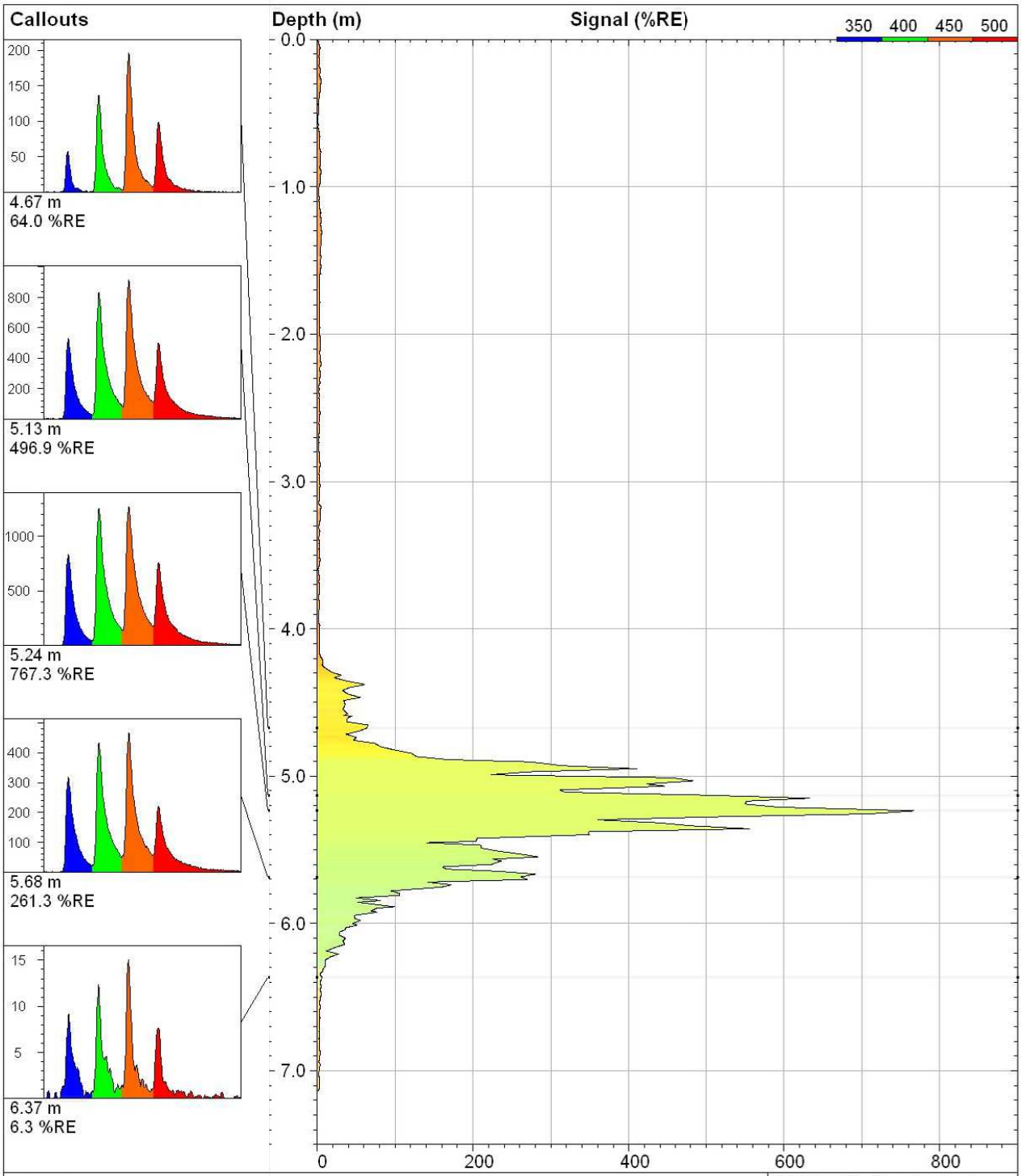
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.40 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **21.4 %RE @ 2.96 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-13 11:34 FLEST**



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LIF_121

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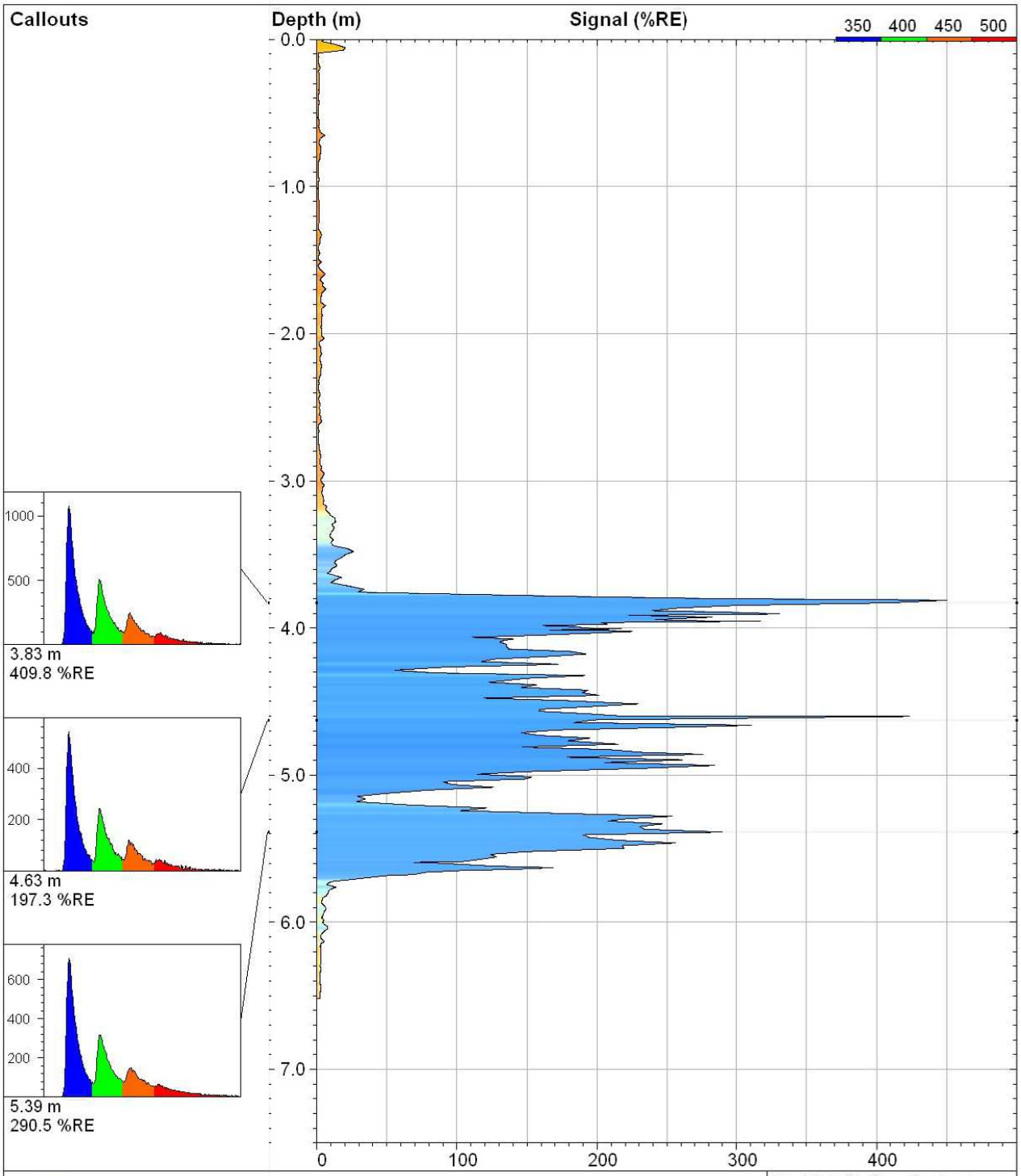
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.13 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **767.3 %RE @ 5.24 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-13 12:36 FLEST**



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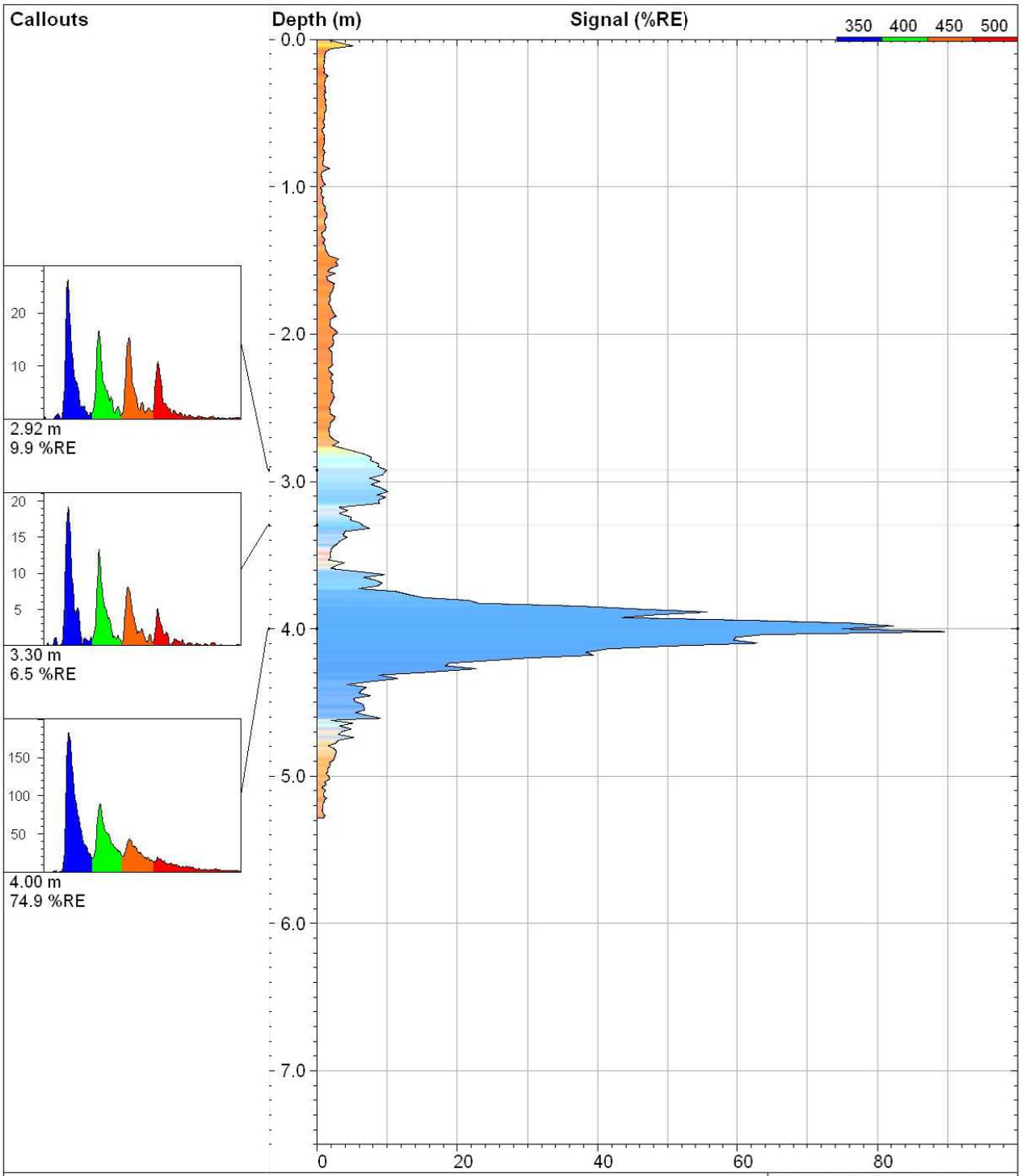
LIF_122		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.52 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **450.6 %RE @ 3.81 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-16 12:37 FLEST**



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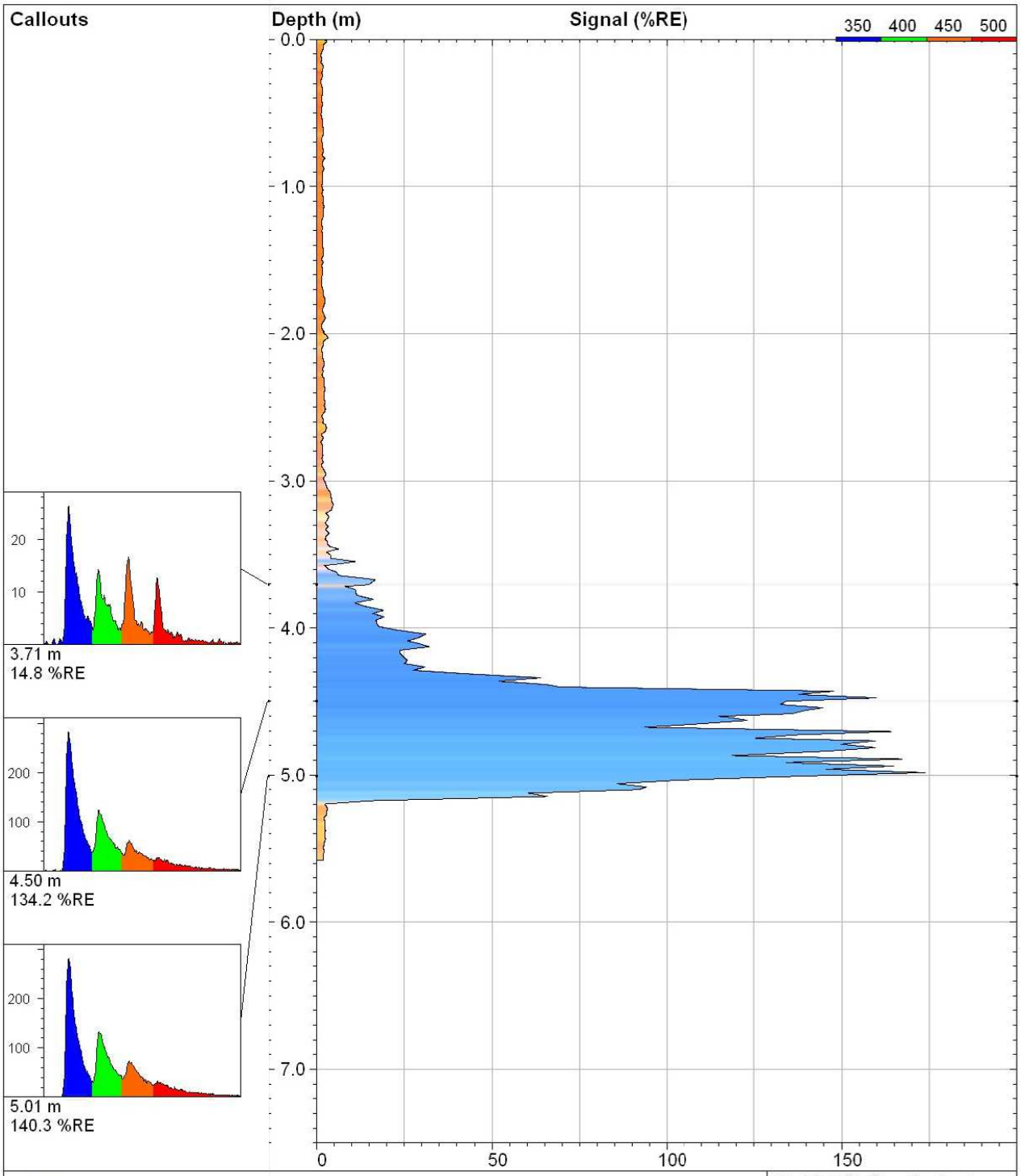
LIF_123		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.29 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **89.9 %RE @ 4.02 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-16 13:28 FLEST**



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LIF_124

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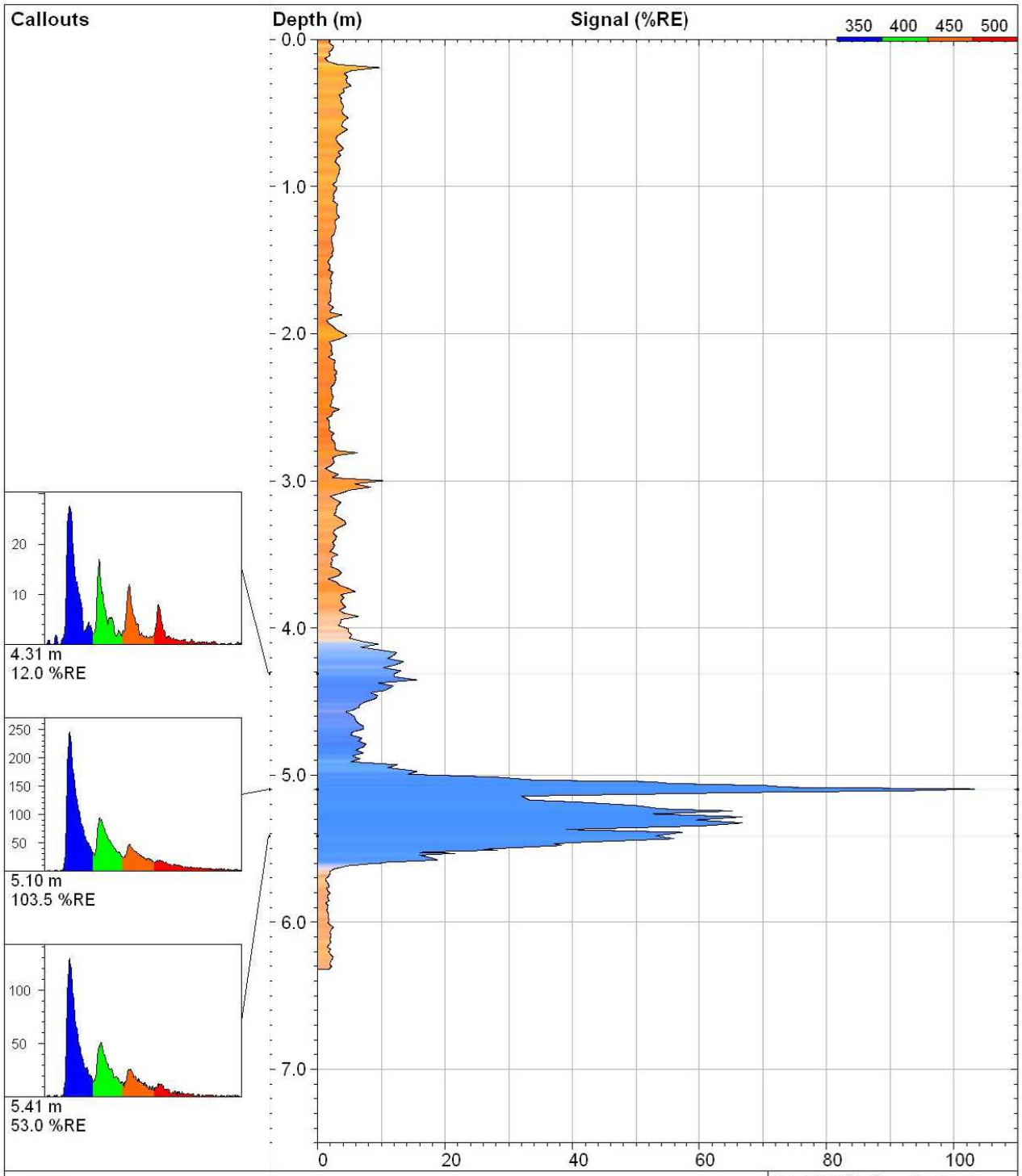
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.58 m**
Client / Job: /	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **174.2 %RE @ 4.98 m**
Operator / Unit: / **UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-16 13:49 FLEST**



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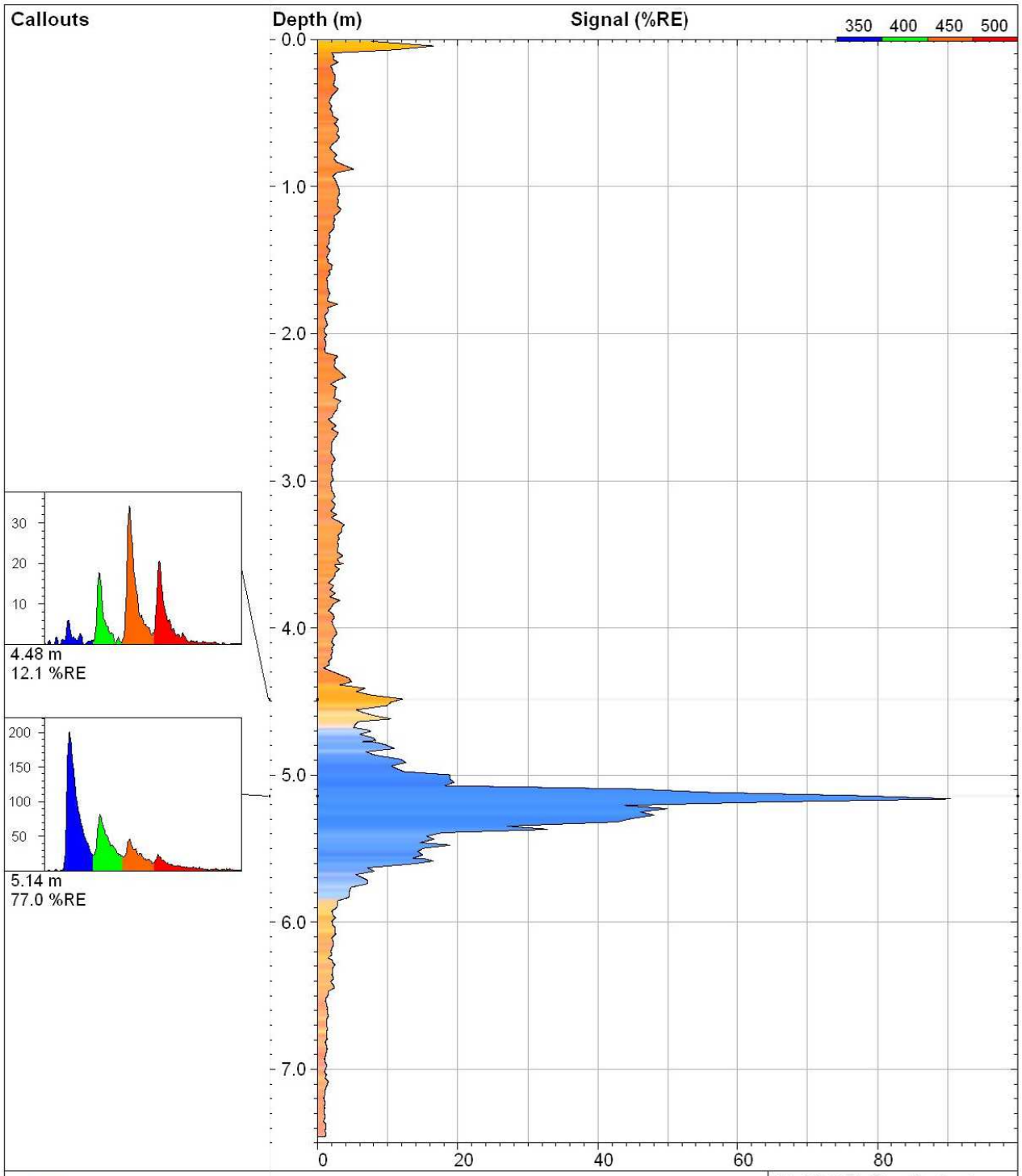
LIF_125		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.32 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **103.5 %RE @ 5.10 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-16 14:22 FLEST**



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LIF_126

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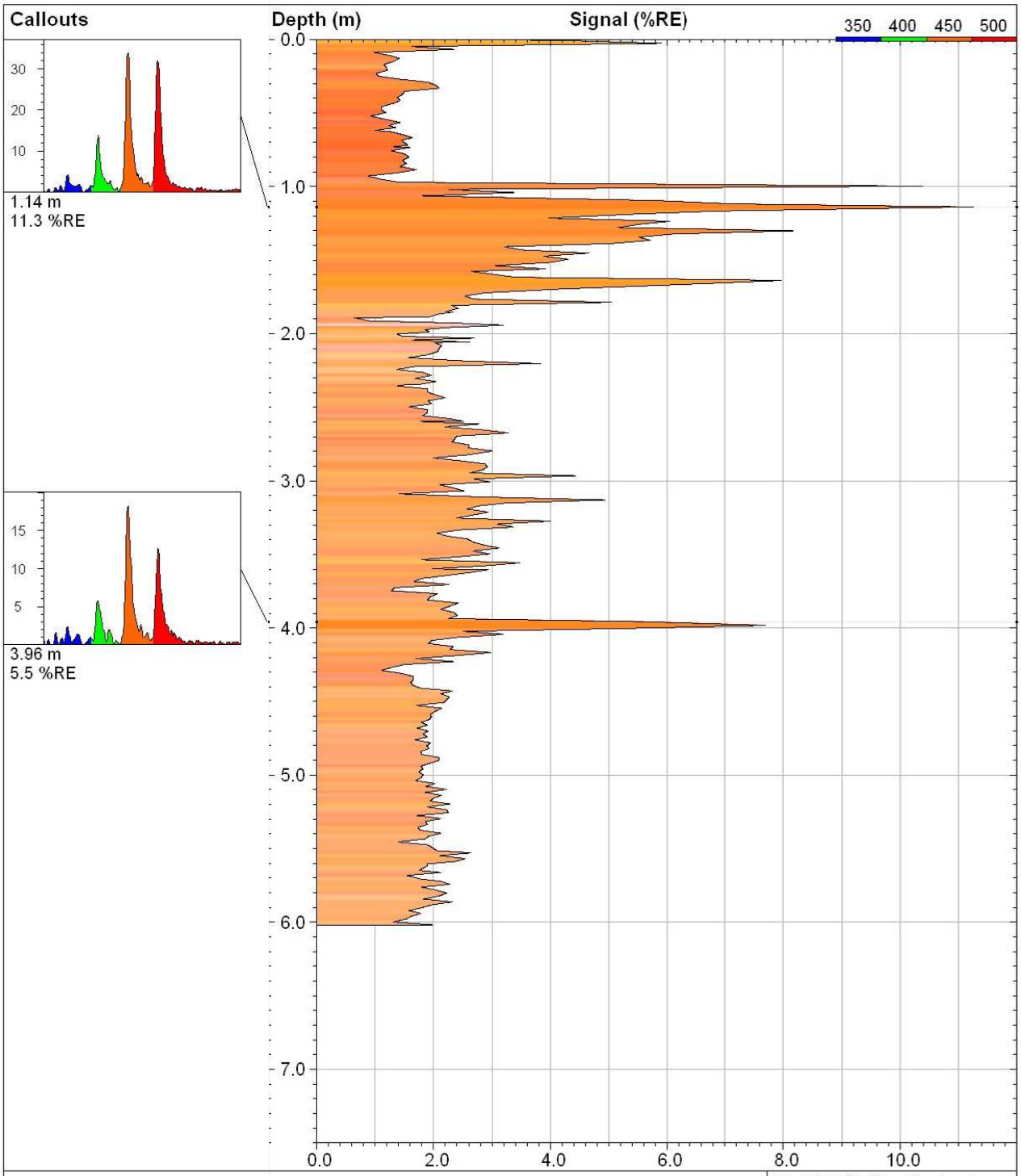
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.46 m**
Client / Job: /	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **90.8 %RE @ 5.16 m**
Operator / Unit: / **UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-16 15:06 FLEST**



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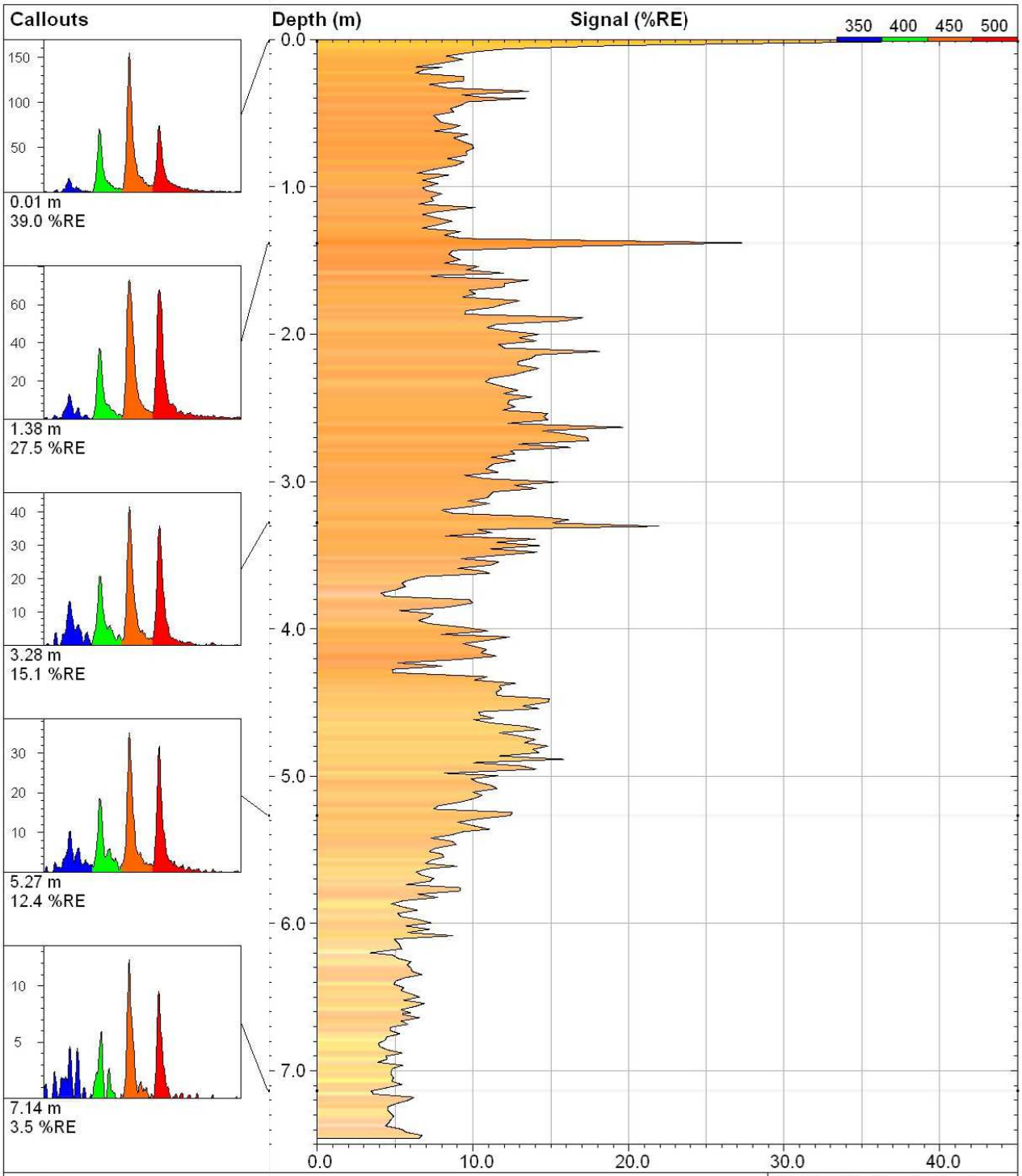
LIF_127		UVOST By Dakota www.DakotaTechnologies.com
Site:	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.02 m**
Client / Job: **/**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **11.3 %RE @ 1.14 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-16 15:57 FLEST**



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LIF_128

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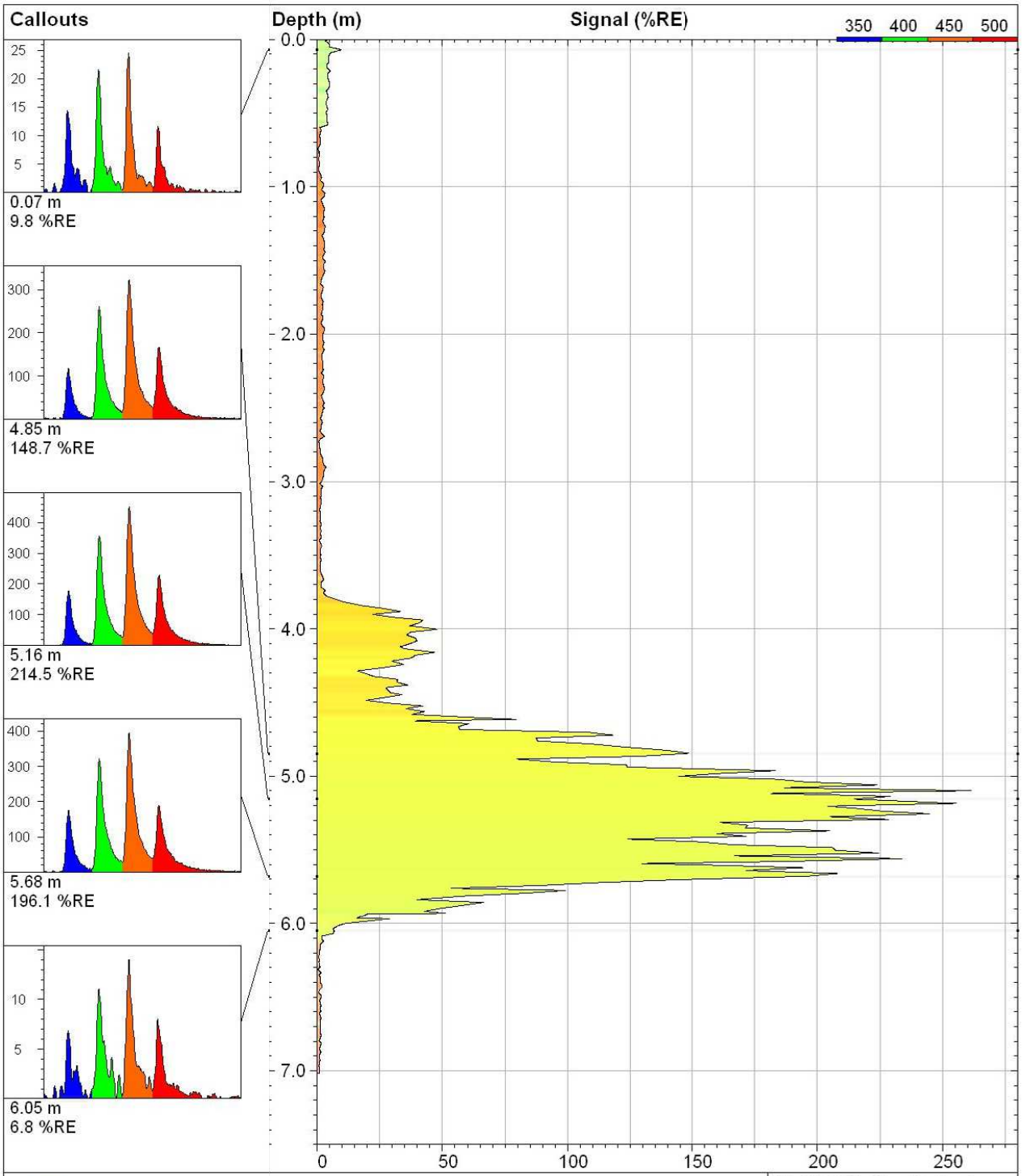
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.46 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **39.0 %RE @ 0.01 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-17 09:30 FLEST**



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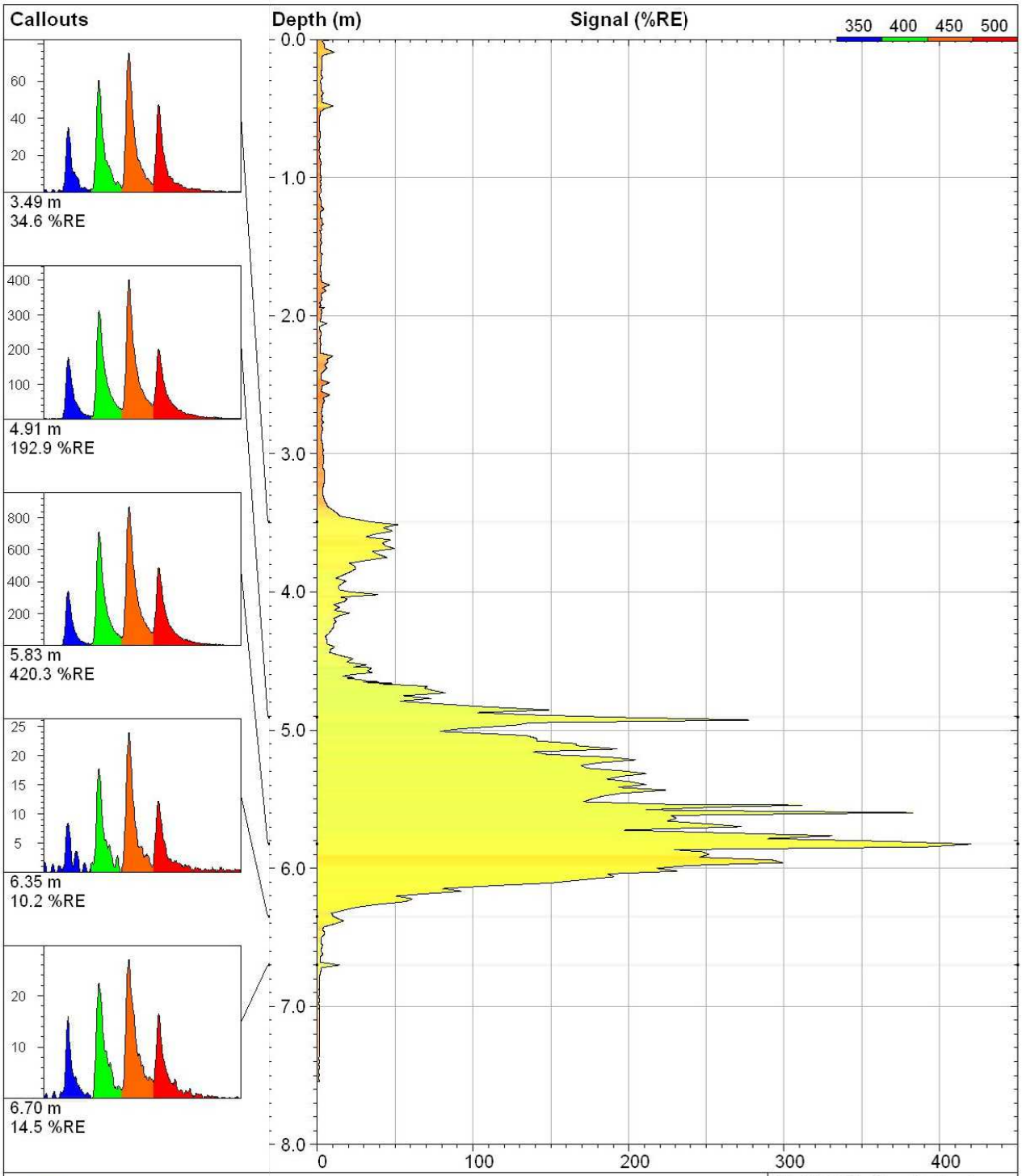
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.01 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **262.8 %RE @ 5.10 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-17 10:05 FLEST**



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LIF_130

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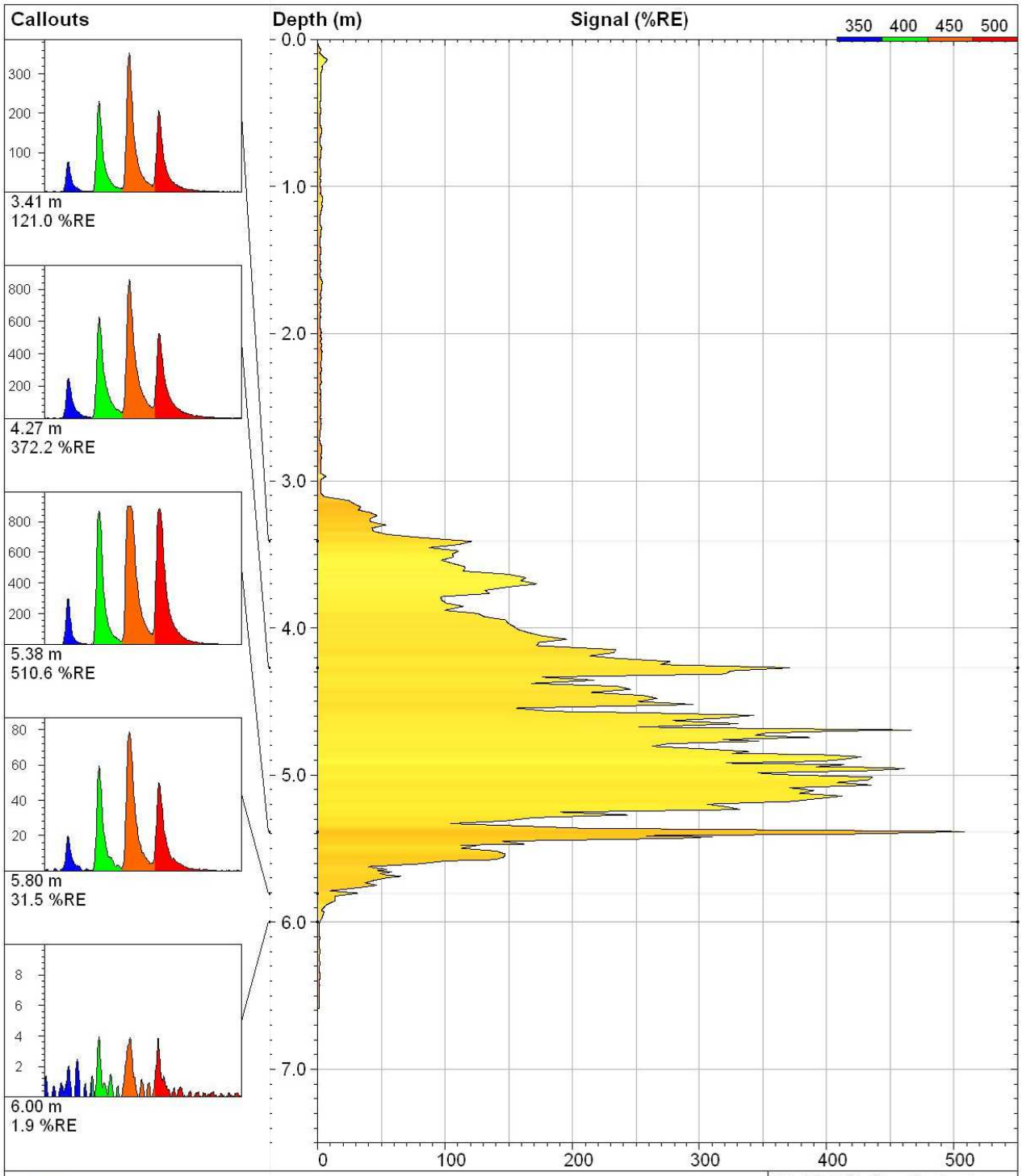
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.55 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **420.3 %RE @ 5.83 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-17 11:05 FLEST**



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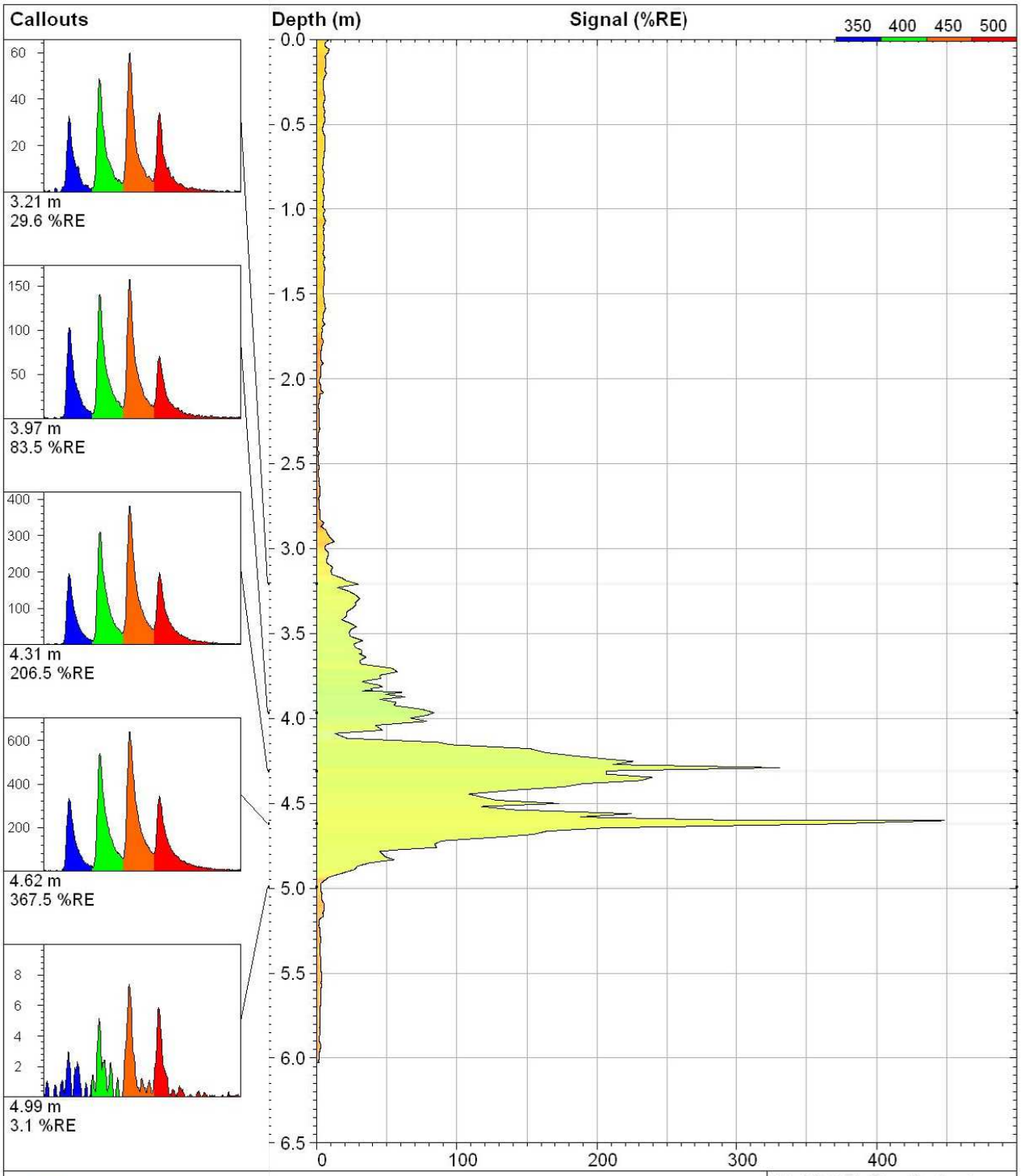
LIF_131		UVOST By Dakota www.DakotaTechnologies.com
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.59 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **510.6 %RE @ 5.38 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-17 11:51 FLEST**



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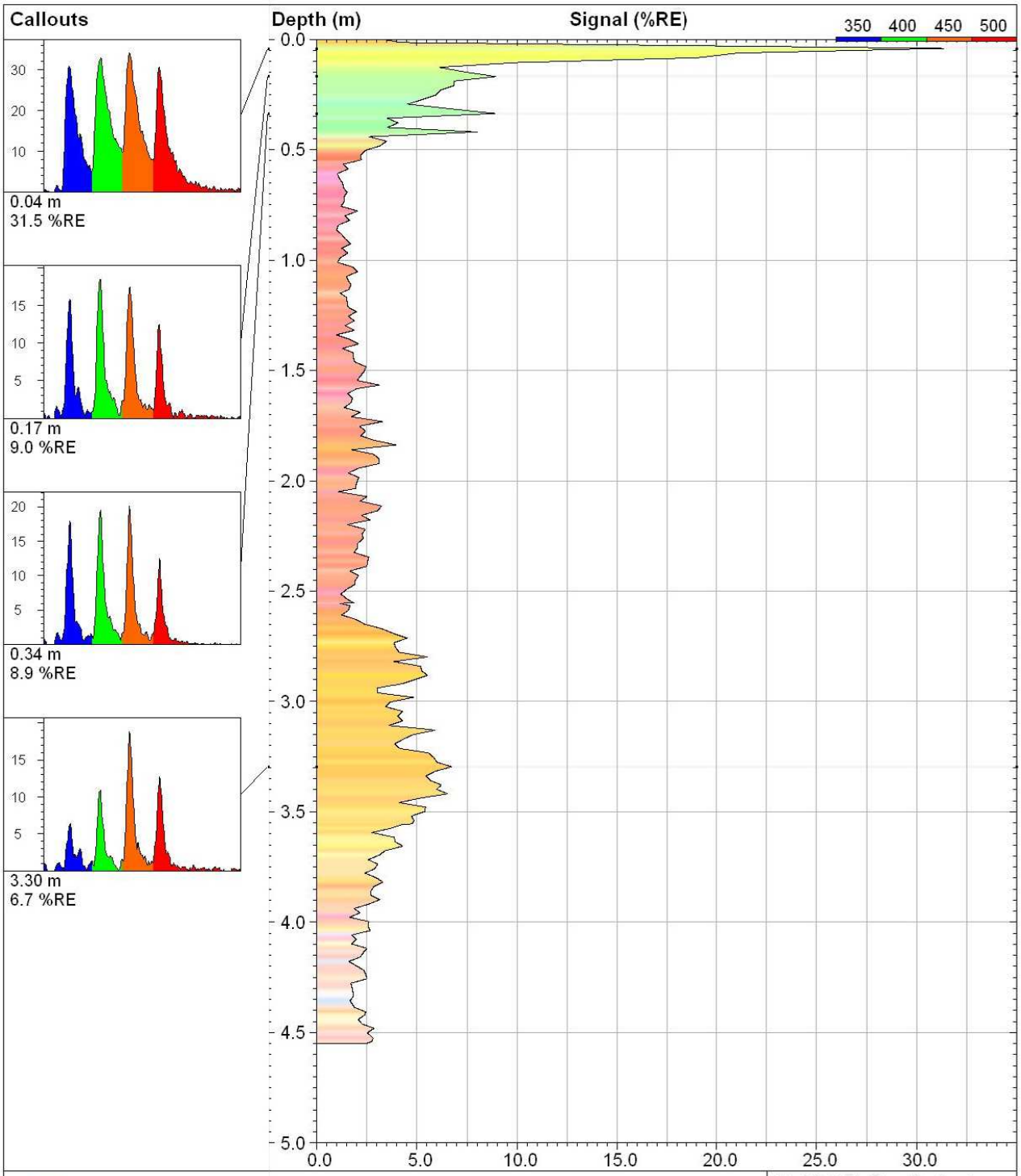
LIF_132		UVOST By Dakota www.DakotaTechnologies.com
Site: **Trase**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **6.03 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **451.6 %RE @ 4.60 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-17 12:34 FLEST**



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LIF_133

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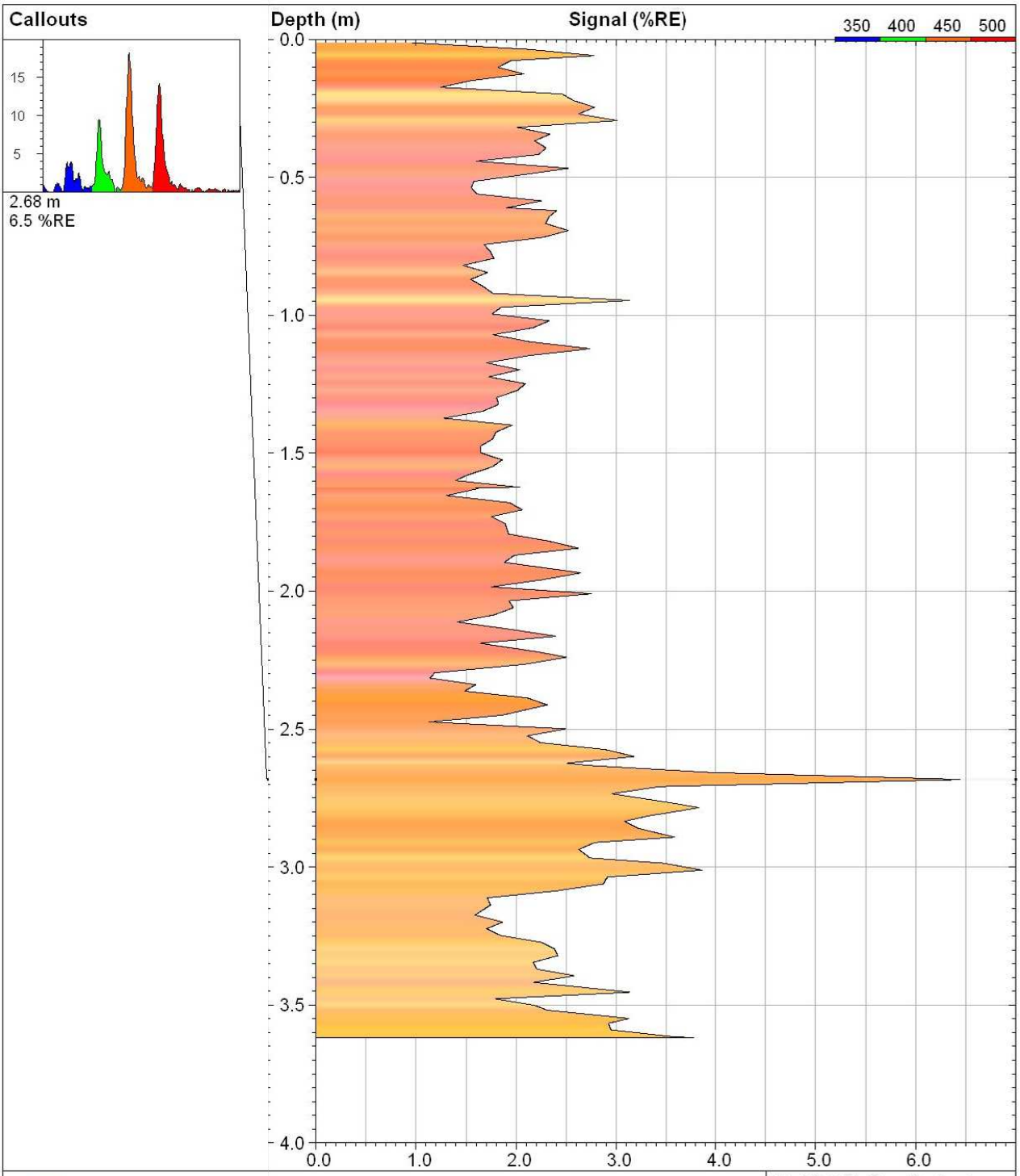
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.55 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **31.5 %RE @ 0.04 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 10:14 FLEST**



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LIF_134

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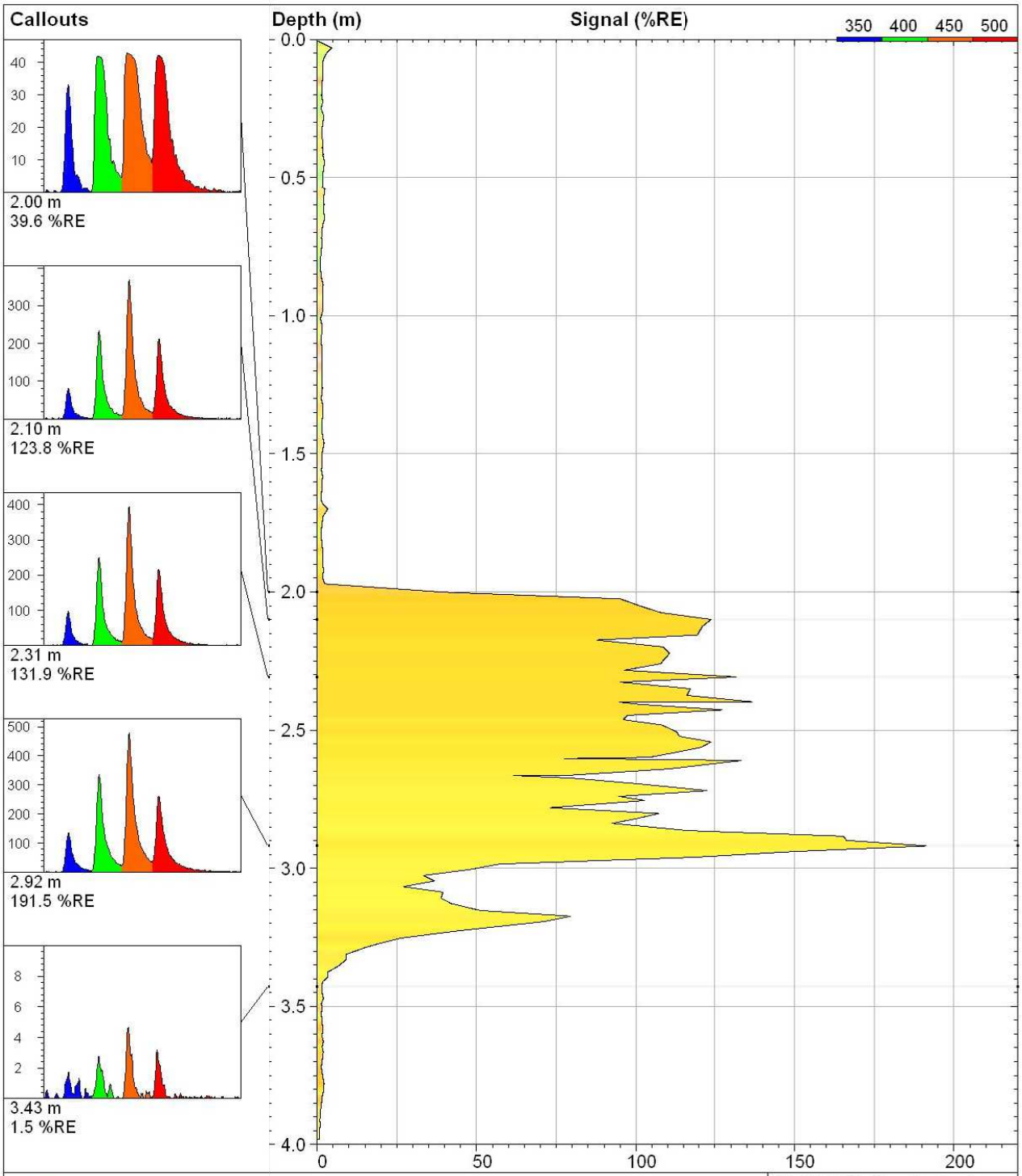
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.62 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **6.5 %RE @ 2.68 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 10:32 FLEST**



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LIF_135

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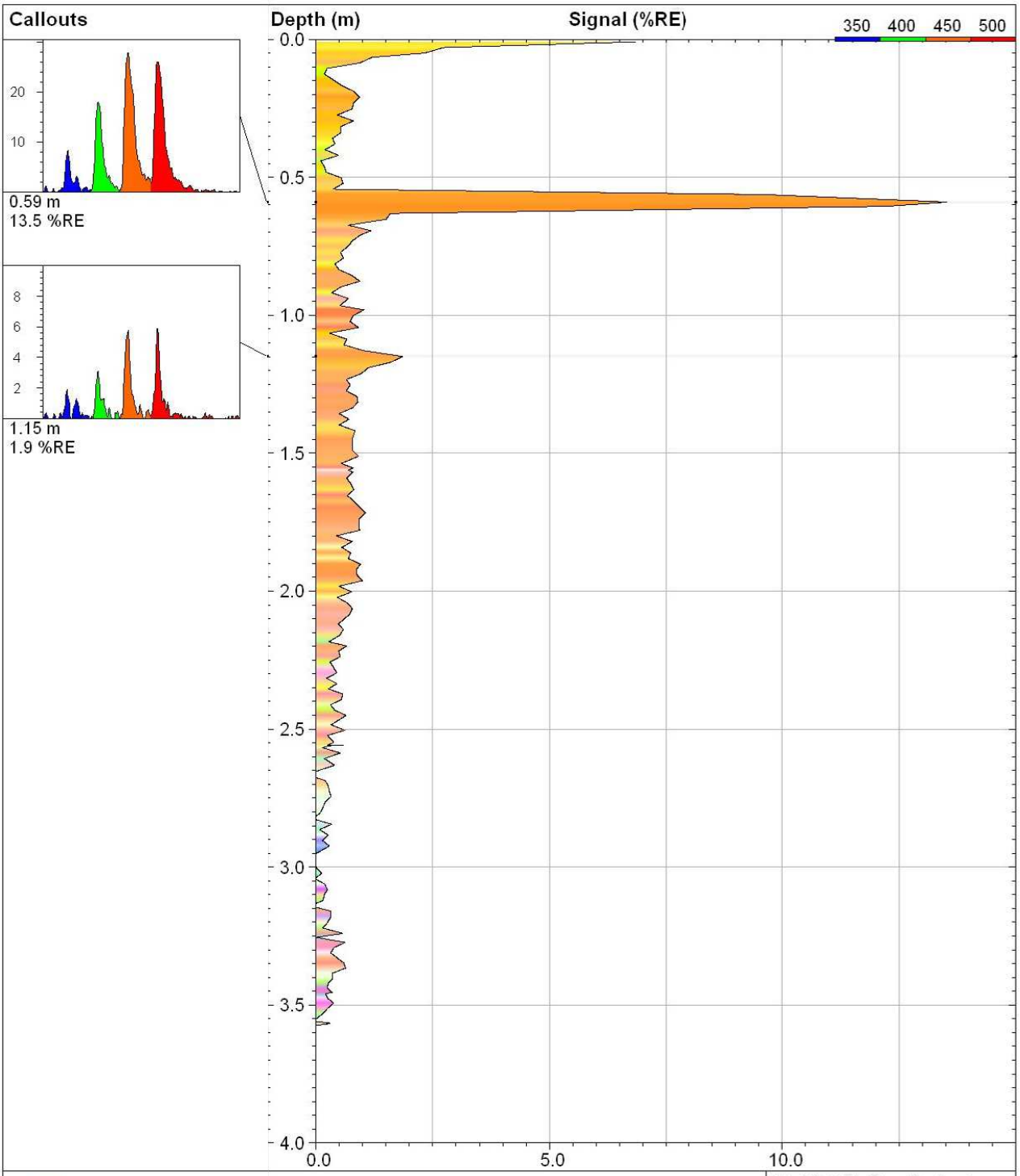
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.98 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **191.5 %RE @ 2.92 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 11:06 FLEST**



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LIF_136

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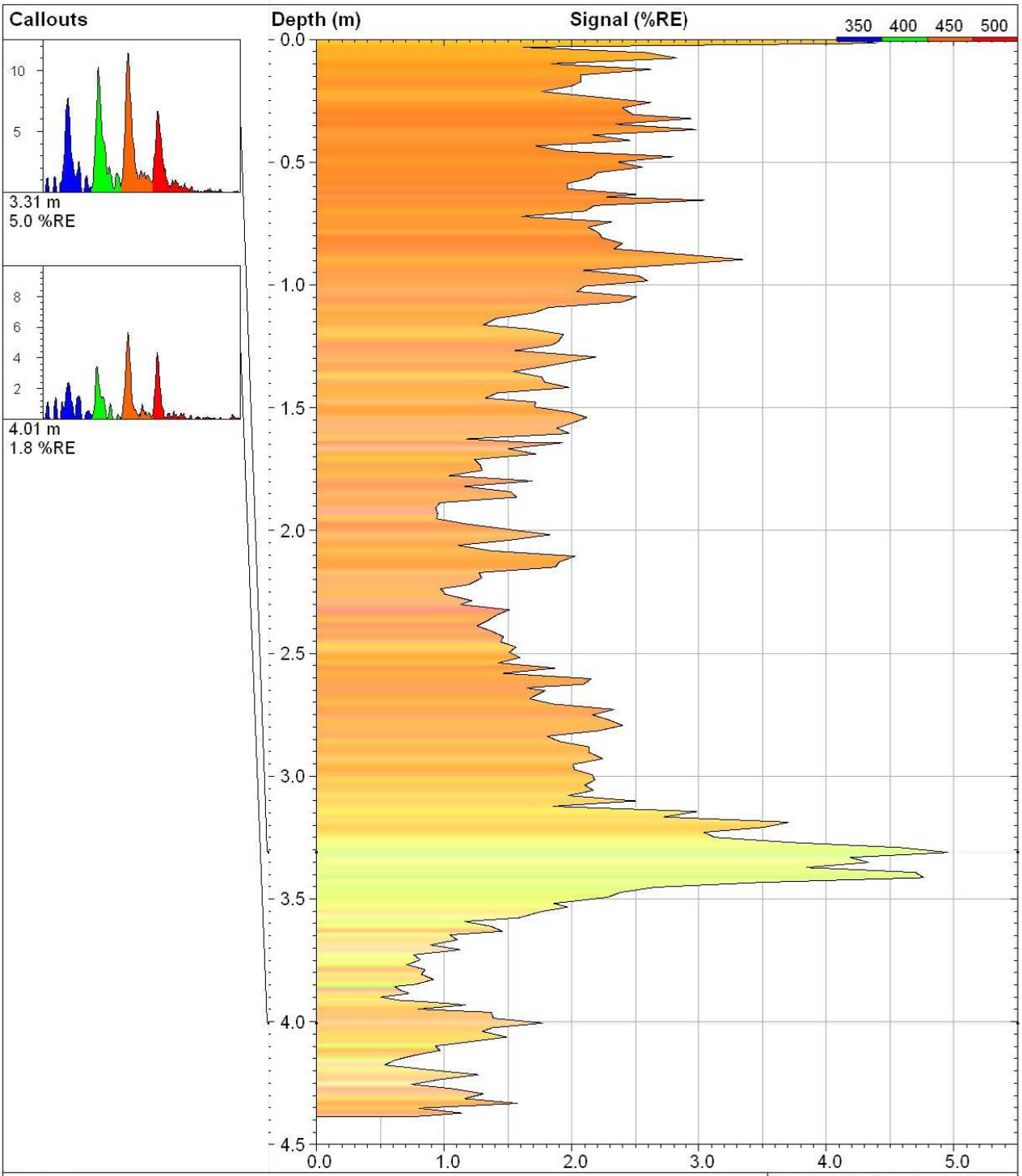
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **3.57 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **13.5 %RE @ 0.59 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 11:39 FLEST**



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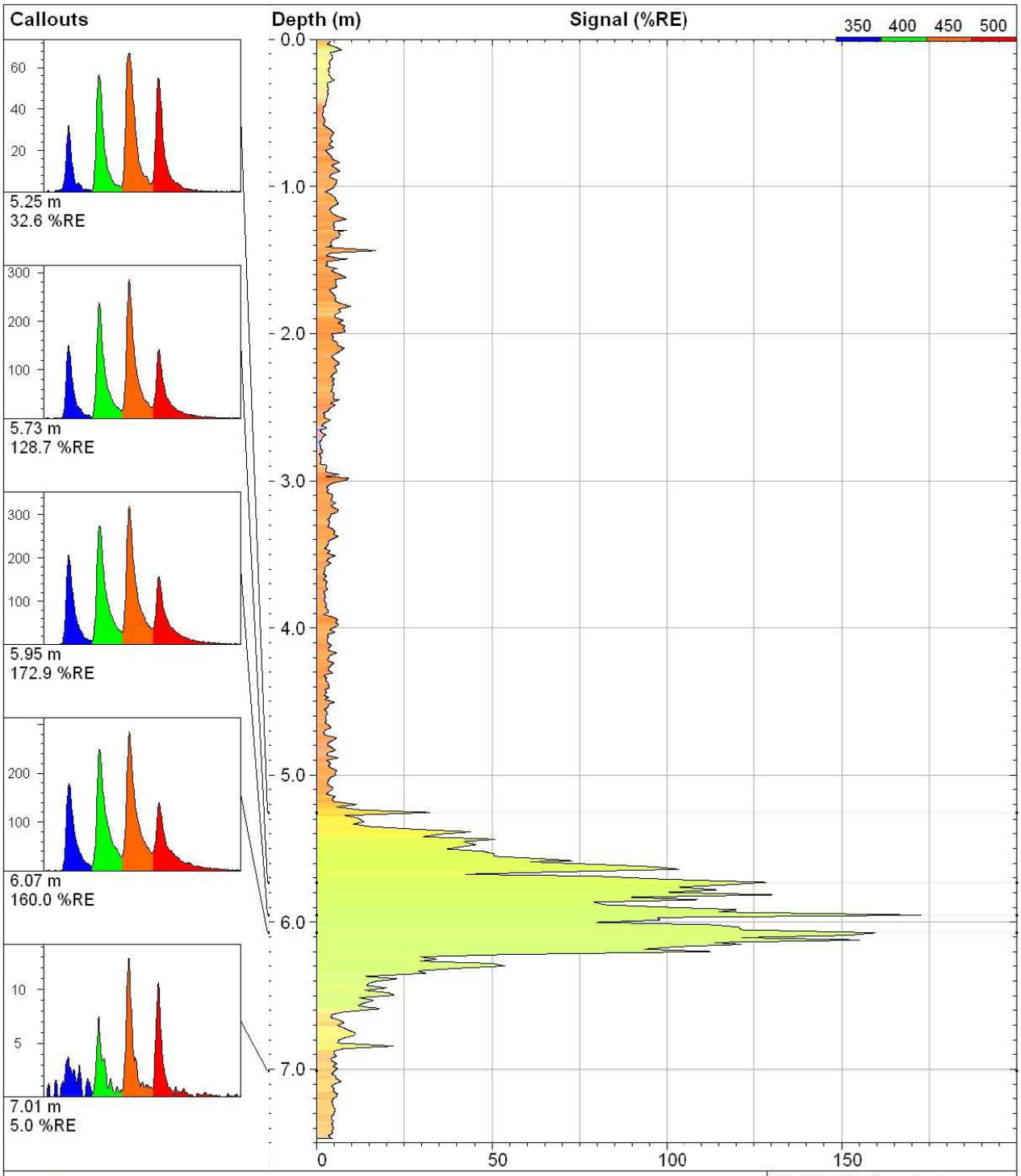
LIF_137		UVOST By Dakota www.DakotaTechnologies.com
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **4.39 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **5.0 %RE @ 3.31 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 12:05 FLEST**



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LIF_138

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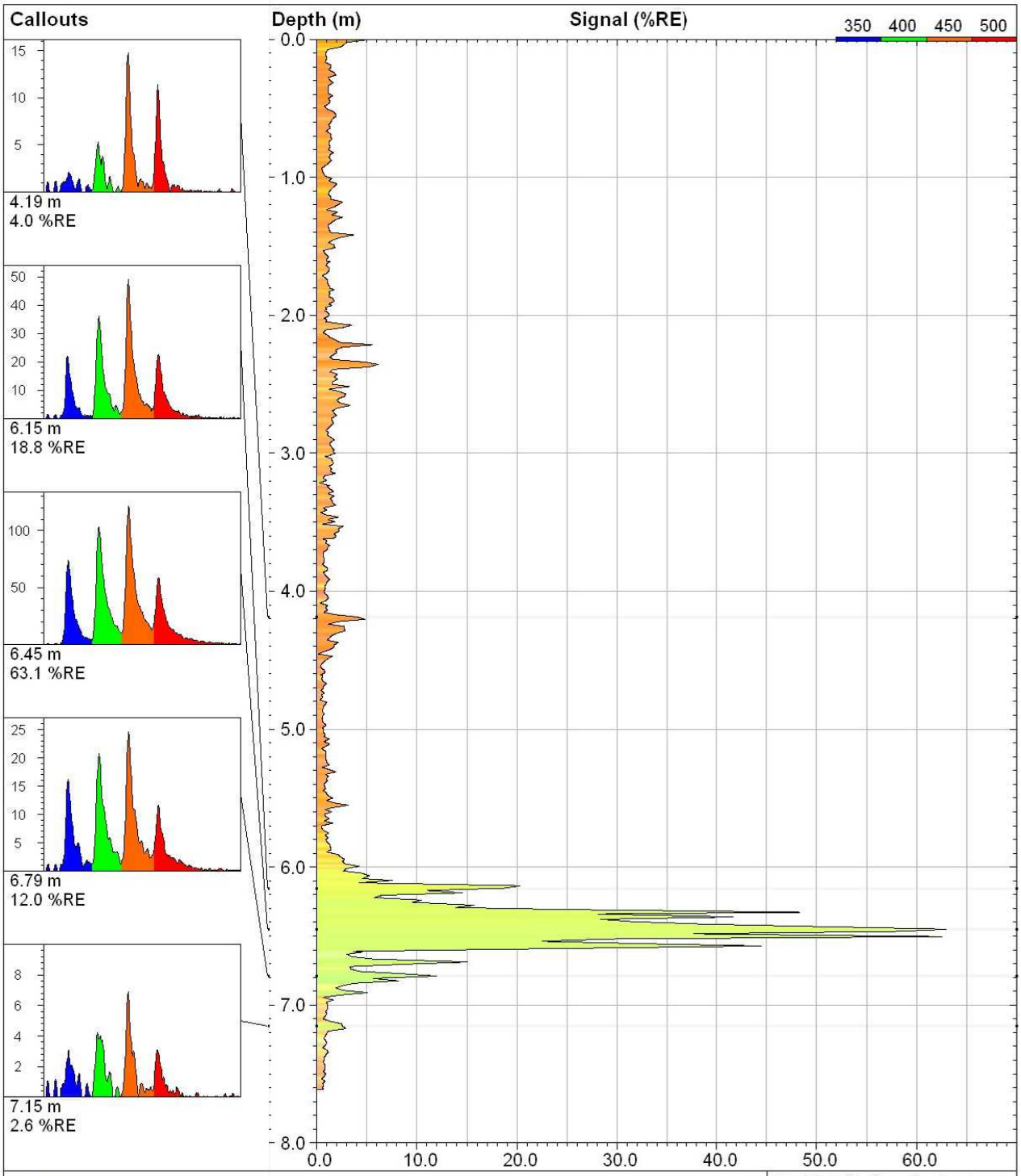
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.47 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **172.9 %RE @ 5.95 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 13:00 FLEST**



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LIF_139

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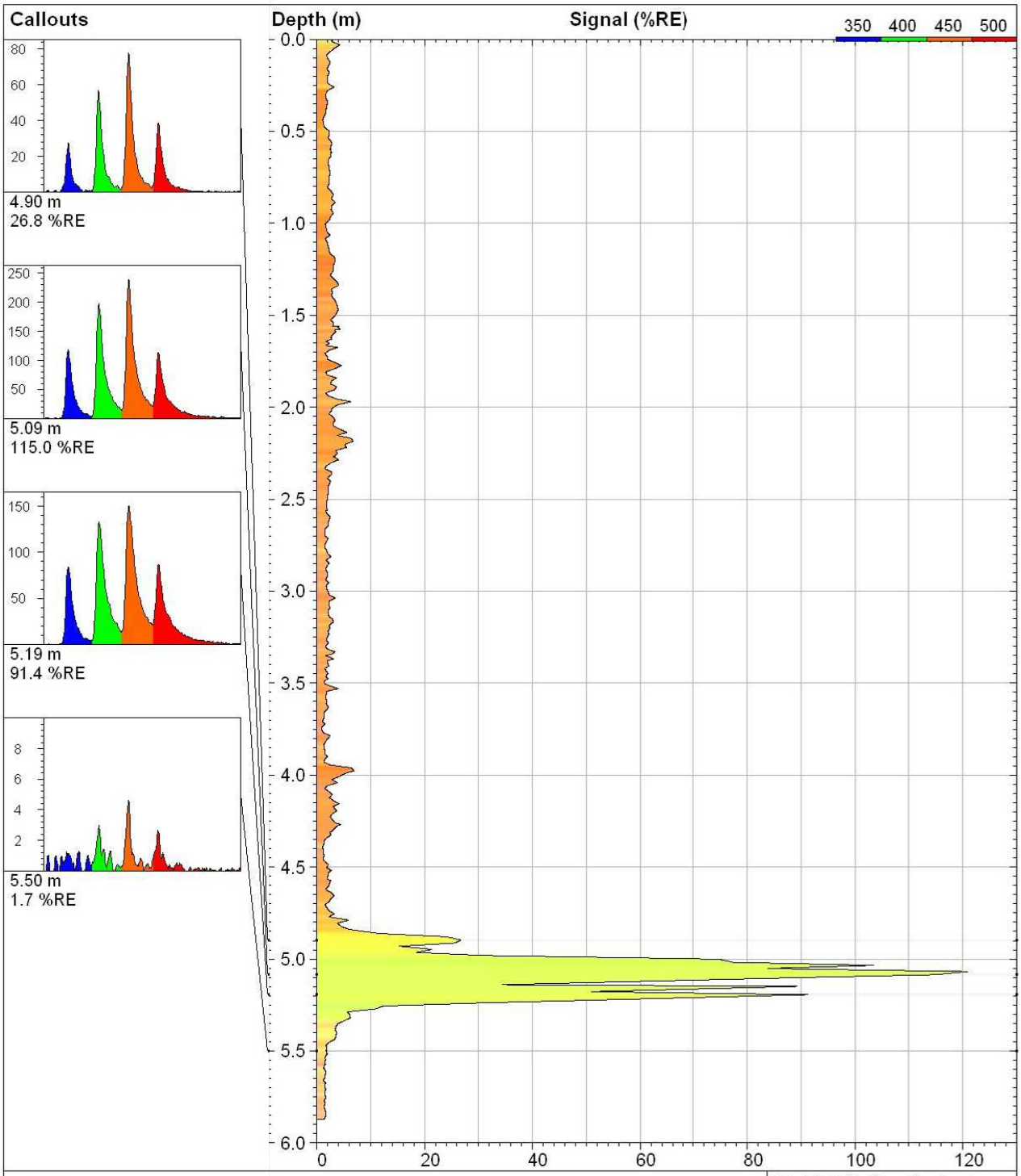
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **7.61 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **63.1 %RE @ 6.45 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 13:35 FLEST**



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LIF_140

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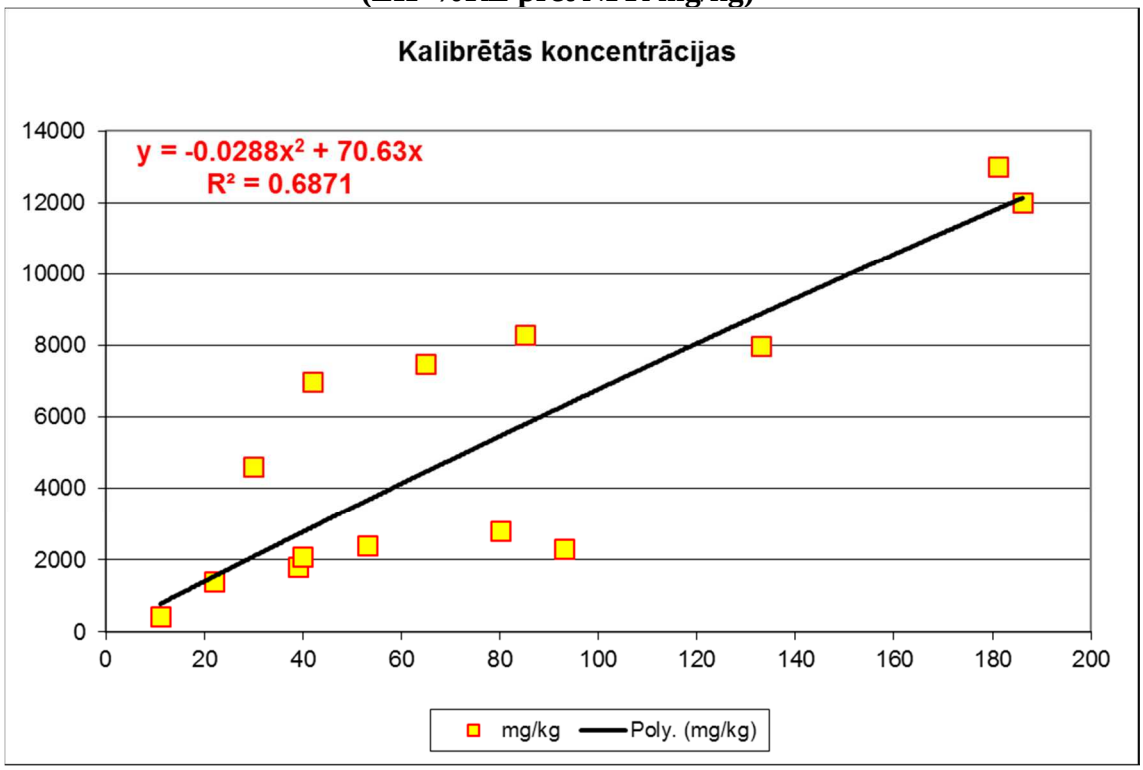
Site: **Udeka**	*Y Coord.(Lat-N) / System:* **Unavailable / NA**	*Final depth:* **5.87 m**
Client / Job: **VNT /**	*X Coord.(Lng-E) / Fix:* **Unavailable / NA**	*Max signal:* **121.1 %RE @ 5.07 m**
Operator / Unit: **/ UVOST1010**	*Elevation:* **Unavailable**	*Date & Time:* **2020-11-18 14:18 FLEST**

4. Pielikums
Modelēto un kalibrēto koncentrāciju grafiki

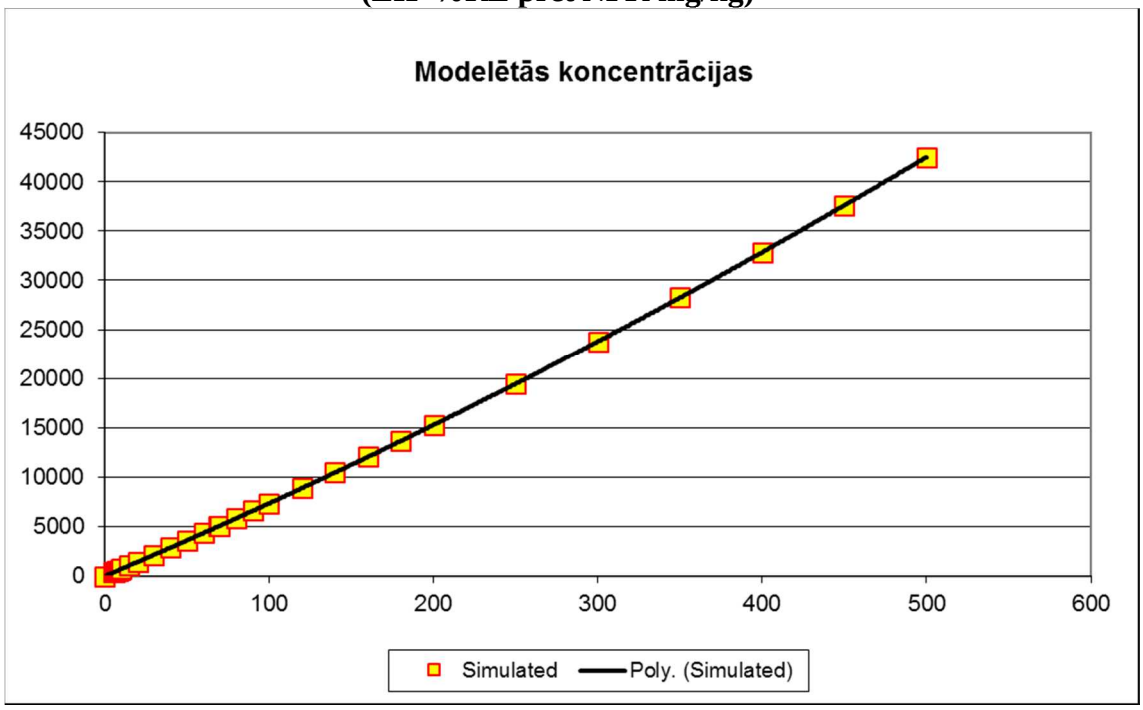
Kalibrētās grunts piesārņojuma ar NP koncentrācijas

(LIF %RE pret NPK mg/kg)



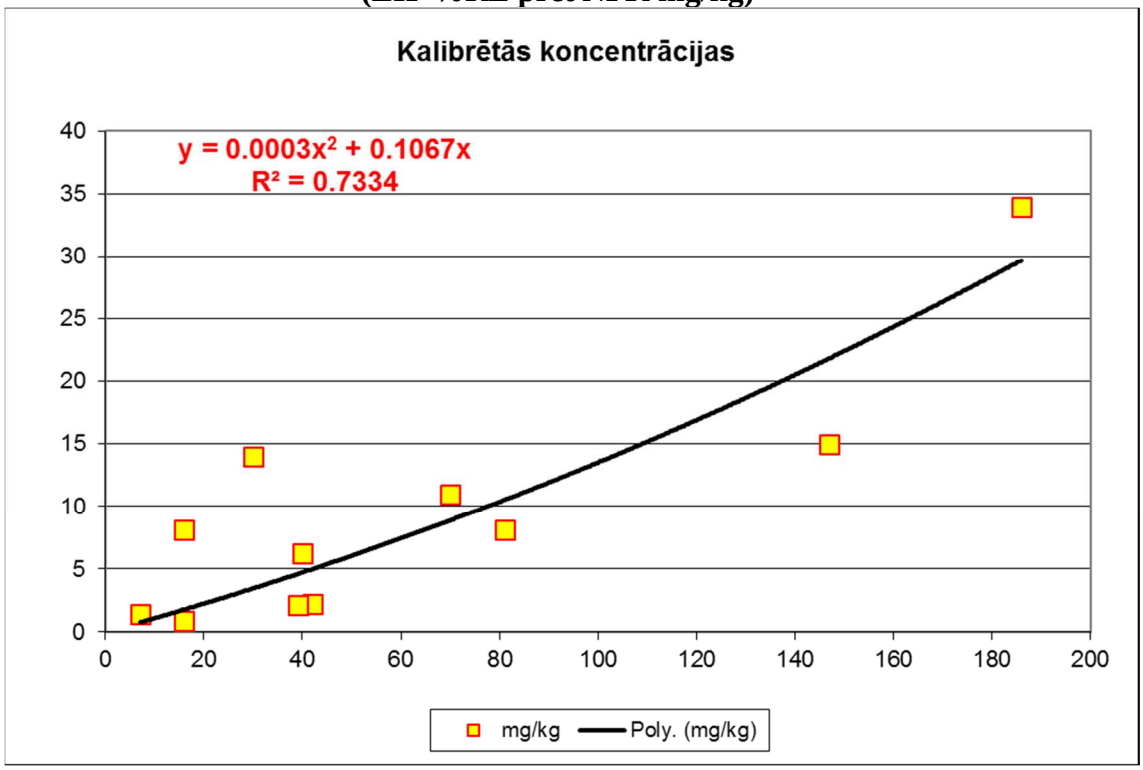
Modelētās grunts piesārņojuma ar NP koncentrācijas

(LIF %RE pret NPK mg/kg)



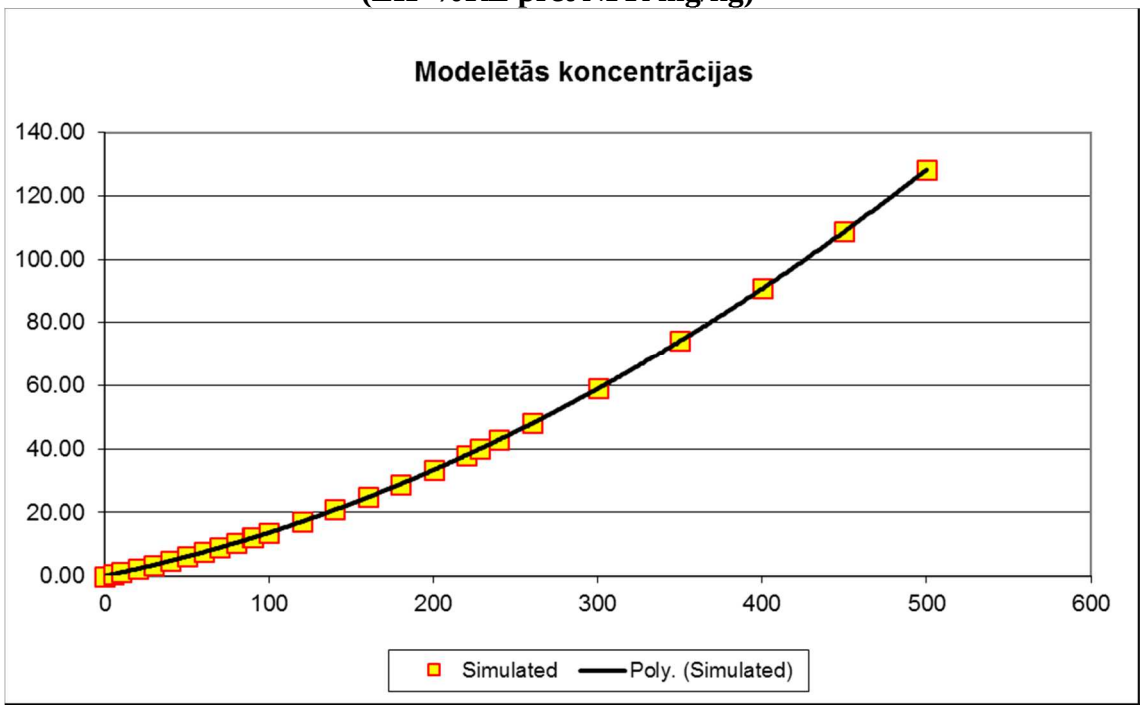
Kalibrētās grunts piesārņojuma ar PAH koncentrācijas

(LIF %RE pret NPK mg/kg)



Modelētās grunts piesārņojuma ar PAH koncentrācijas

(LIF %RE pret NPK mg/kg)



5. Pielikums
Laboratorijas analīžu testēšanas pārskatu kopijas

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VentEko Ltd.
Att. Edgars Dimitrijevs
22 Rigas Str.
LV-2107 Pinki, Babite District
LATVIA

Certificate of analysis

Date: 25-Nov-2020

Please find enclosed the analytical results of the test carried out for the project.

Certificate number/Version	2020181955/1
Your project number	VNT-SAN/2020
Your project name	VNT
Your order number	
Samples received on	16-Nov-2020

This Certificate of Analysis shall not be reproduced except in full, without written approval of the laboratory. Interpretations and opinions are outside the scope of our accreditation, and all results relate only to samples supplied.

Soil samples will be stored for a period of 4 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above mentioned periods have expired. If you require Eurofins Analytico to store the samples for a longer period, please complete this page and return it to Eurofins Analytico at least one businessday before the period is due to expire.
The costs of prolonged storage periods may be found in our pricelist.

Storage period:
Date: Name: Signature:

We are confident that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Eurofins Analytico B.V.

Ing. A. Veldhuizen
Technical Manager

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020181955/1
Your project name	VNT	Start date	18-Nov-2020
Your order number		End date analysis	24-Nov-2020
Your sample taker		Report date	24-Nov-2020/22:58
		Annex	A,B,C
		Page	1/2

	Analysis	Unit	1	2	3	4	5
	Characteristics						
Q	Dry matter	% (w/w)	95.7	93.4	92.9	84.6	94.2
	Petroleum Hydrocarbons						
	EPH (C10-C12)	mg/kg dm	410	2400	1900	2400	6900
	EPH (C12-C16)	mg/kg dm	580	3000	1700	1900	4600
	EPH (C16-C21)	mg/kg dm	360	1600	780	800	1600
	EPH (C21-C30)	mg/kg dm	100	420	200	210	370
	EPH (C30-C35)	mg/kg dm	12	46	18	24	48
	EPH (C35-C40)	mg/kg dm	<6.0	22	8.6	12	34
Q	EPH Sum (C10-C40)	mg/kg dm	1500 1)	7500 1)	4600 1)	5300 1)	13000 1)
	Chromatogram TPH (GC)		See annex	See annex	See annex	See annex	See annex
	Polycyclic Aromatic Hydrocarbons, PAH						
Q	Naphtalene	mg/kg dm	11	48	13	14	15
Q	Acenaphtylene	mg/kg dm	0.046	0.21	0.085	0.097	0.13
Q	Acenaphtene	mg/kg dm	0.13	0.55	0.21	0.25	0.29
Q	Fluorene	mg/kg dm	0.31	0.91	0.43	0.48	0.39
Q	Phenanthrene	mg/kg dm	0.36	1.5	0.51	0.63	0.51
Q	Anthracene	mg/kg dm	0.051	0.13	0.069	0.094	0.13
Q	Fluoranthene	mg/kg dm	0.038	0.16	0.048	0.069	0.18
Q	Pyrene	mg/kg dm	0.061	0.25	0.072	0.089	0.19
Q	Benzo(a)anthracene	mg/kg dm	0.016	0.082	0.020	0.027	0.098
Q	Chrysene	mg/kg dm	0.019	0.067	0.019	0.039	0.12
Q	Benzo(b)fluoranthene	mg/kg dm	<0.010	<0.050 2)	<0.010	0.018	0.094
Q	Benzo(k)fluoranthene	mg/kg dm	<0.010	<0.050 2)	<0.010	<0.010	0.055
Q	Benzo(a)pyrene	mg/kg dm	<0.010	0.051	0.011	<0.010	0.088
Q	Dibenzo(ah)anthracene	mg/kg dm	<0.010	<0.050 2)	<0.010	<0.010	<0.050 2)
Q	Benzo(ghi)perylene	mg/kg dm	0.012	0.065	0.011	0.016	0.088
Q	Indeno(123cd)pyrene	mg/kg dm	<0.010	<0.050 2)	<0.010	0.011	0.073
Q	PAH 10 VROM (sum)	mg/kg dm	11	50	14	15	16
Q	PAH 16 EPA (sum)	mg/kg dm	12	52	15	16	17

No.	Your sample description	Specified sample matrix	Sample nr.
1	19z	Soil, Sediment	11702508
2	34z	Soil, Sediment	11702509
3	40z	Soil, Sediment	11702510
4	81z	Soil, Sediment	11702511
5	80z	Soil, Sediment	11702512

Q: Dutch Accreditation Council (RvA) accredited test
A: AP04 accredited test
S: AS SIKB recognized test
V: VLAREL recognized test
W: Walloon region recognized test

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

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IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020181955/1
Your project name	VNT	Start date	18-Nov-2020
Your order number		End date analysis	24-Nov-2020
Your sample taker		Report date	24-Nov-2020/22:58
		Annex	A,B,C
		Page	2/2

	Analysis	Unit	6	7	8	9
	Characteristics					
Q	Dry matter	% (w/w)	89.2	76.8	85.8	83.1
	Petroleum Hydrocarbons					
	EPH (C10-C12)	mg/kg dm	1100	1100	4500	2800
	EPH (C12-C16)	mg/kg dm	890	730	2500	1300
	EPH (C16-C21)	mg/kg dm	300	230	530	170
	EPH (C21-C30)	mg/kg dm	90	54	120	35
	EPH (C30-C35)	mg/kg dm	17	<6.0	9.6	<6.0
	EPH (C35-C40)	mg/kg dm	8.4	<6.0	6.1	<6.0
Q	EPH Sum (C10-C40)	mg/kg dm	2400 1)	2100 1)	7500 1)	4300 1)
	Chromatogram TPH (GC)		See annex	See annex	See annex	See annex
	Polycyclic Aromatic Hydrocarbons, PAH					
Q	Naphtalene	mg/kg dm	0.14	6.0	0.58	8.1
Q	Acenaphtylene	mg/kg dm	0.019	0.028	0.046	<0.050 2)
Q	Acenaphtene	mg/kg dm	0.038	0.056	0.12	0.089
Q	Fluorene	mg/kg dm	0.060	0.085	0.13	0.067
Q	Phenanthrene	mg/kg dm	0.079	0.068	0.082	0.069
Q	Anthracene	mg/kg dm	0.016	0.014	0.016	<0.050 2)
Q	Fluoranthene	mg/kg dm	0.080	0.024	0.061	<0.050 2)
Q	Pyrene	mg/kg dm	0.072	0.022	0.060	<0.050 2)
Q	Benzo(a)anthracene	mg/kg dm	0.042	0.022	0.028	<0.050 2)
Q	Chrysene	mg/kg dm	0.043	0.029	0.029	<0.050 2)
Q	Benzo(b)fluoranthene	mg/kg dm	0.072	0.028	0.041	<0.050 2)
Q	Benzo(k)fluoranthene	mg/kg dm	0.026	0.011	0.016	<0.050 2)
Q	Benzo(a)pyrene	mg/kg dm	0.048	0.021	0.028	<0.050 2)
Q	Dibenzo(ah)anthracene	mg/kg dm	0.012	<0.010	<0.010	<0.050 2)
Q	Benzo(ghi)perylene	mg/kg dm	0.053	0.013	0.021	<0.050 2)
Q	Indeno(123cd)pyrene	mg/kg dm	0.048	0.018	0.023	<0.050 2)
Q	PAH 10 VROM (sum)	mg/kg dm	0.57	6.2	0.89	8.1
Q	PAH 16 EPA (sum)	mg/kg dm	0.85	6.4	1.3	8.3

No.	Your sample description	Specified sample matrix	Sample nr.
6	74z-1	Soil, Sediment	11702513
7	74z-2	Soil, Sediment	11702514
8	71z	Soil, Sediment	11702515
9	66z	Soil, Sediment	11702516

Q: Dutch Accreditation Council (RvA) accredited test
A: AP04 accredited test
S: AS SIKB recognized test
V: VLAREL recognized test
W: Walloon region recognized test

Verified
ASM
FZ

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Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

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Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020181955/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11702508	19z				
0520199414	19z	430	450	13-Nov-2020	19z
11702509	34z				
0520199457	34z	240	260	13-Nov-2020	34z
11702510	40z				
0520199431	40z	230	250	13-Nov-2020	40z
11702511	81z				
0520200716	81z	90	110	13-Nov-2020	81z
11702512	80z				
0520199441	80z	50	70	13-Nov-2020	80z
11702513	74z-1				
0520199388	74z-1	130	150	13-Nov-2020	74z-1
11702514	74z-2				
0520200733	74z-2	230	250	13-Nov-2020	74z-2
11702515	71z				
0520200734	71z	210	230	13-Nov-2020	71z
11702516	66z				
0520200737	66z	280	300	13-Nov-2020	66z

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

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Annex (B) concerning remarks referring to certificate of analysis 2020181955/1

Remark 1)
Volatile oil fraction present.

Remark 2)
Reporting limit increased due to dilution of sample.

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
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Annex (C) method references belonging to certificate of analysis 2020181955/1

Analysis	Method	Technique	Method reference
Characteristics			
Dry matter	W0104	Gravimetry	NEN-EN 15934 & CMA 2/II/A.1
Petroleum Hydrocarbons			
EPH (C10-C40)	W0202	GC/FID	NEN-EN-ISO 16703
Chromatogram TPH (GC)	W0202	GC/FID	NEN-EN-ISO 16703
Polycyclic Aromatic Hydrocarbons, PAH			
PAH (16) (EPA)	W0271	GC-MS	NEN-ISO 18287

Additional information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version June 2020.

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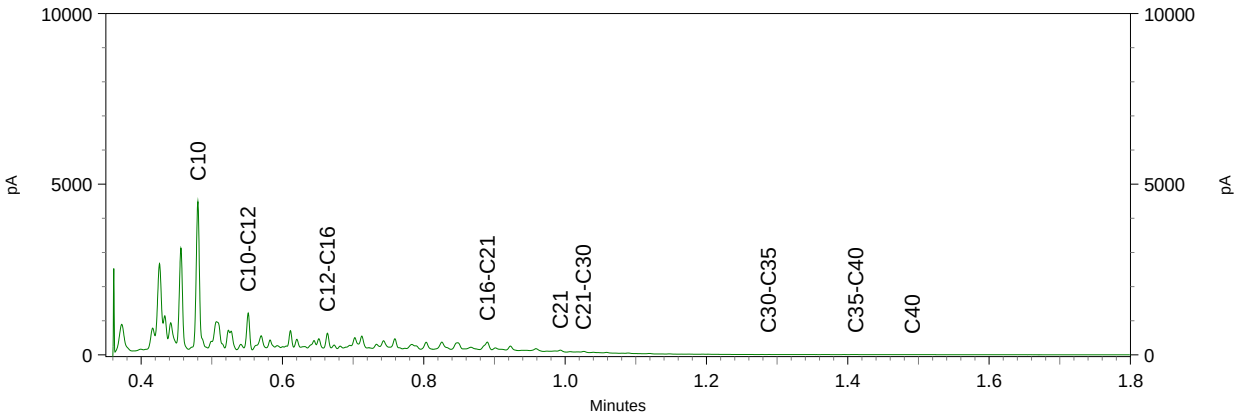
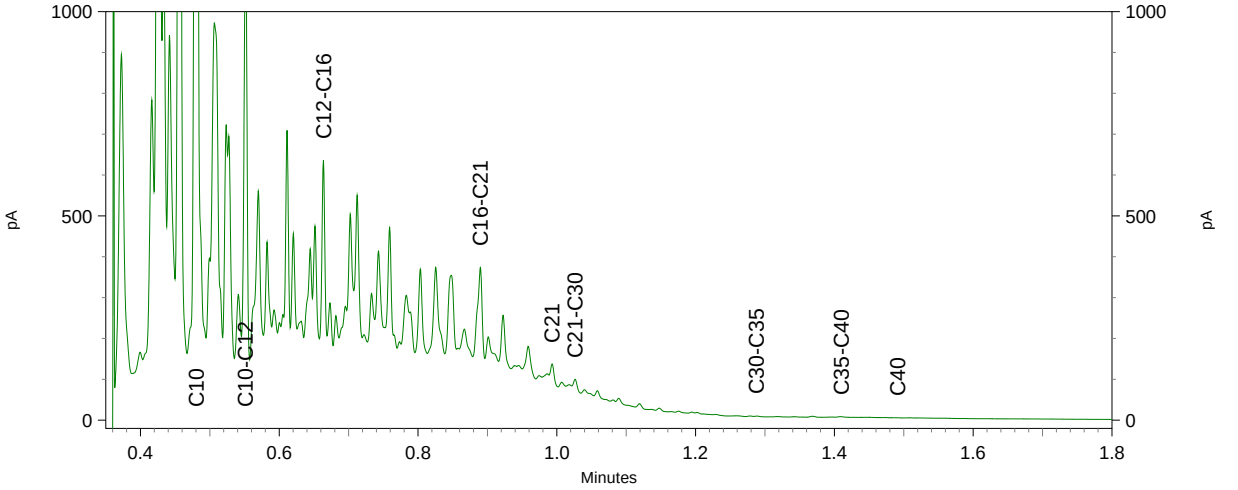
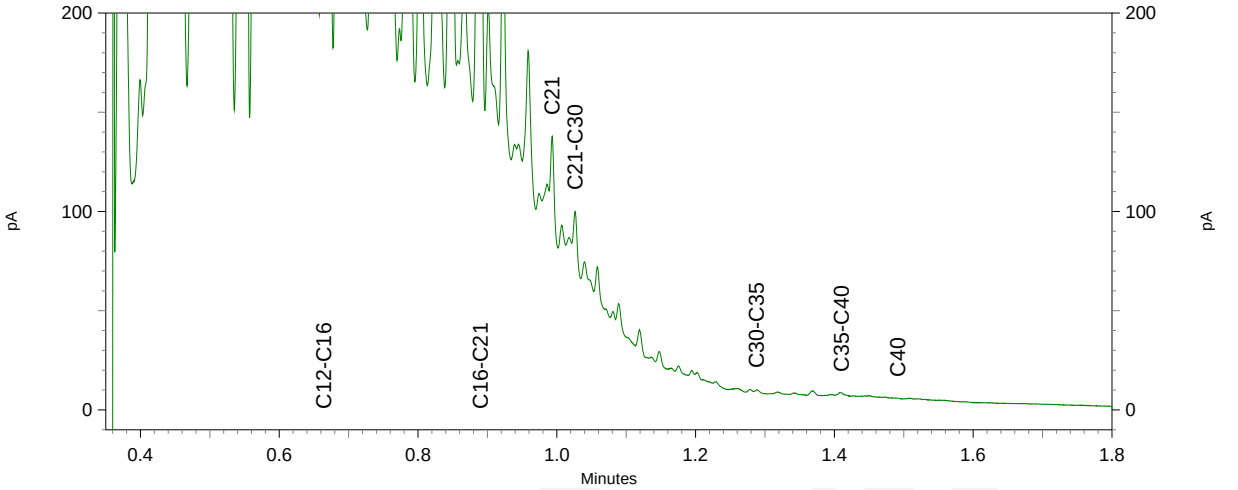
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702508
Certificate no.: 2020181955
Sample description.: 19z
V







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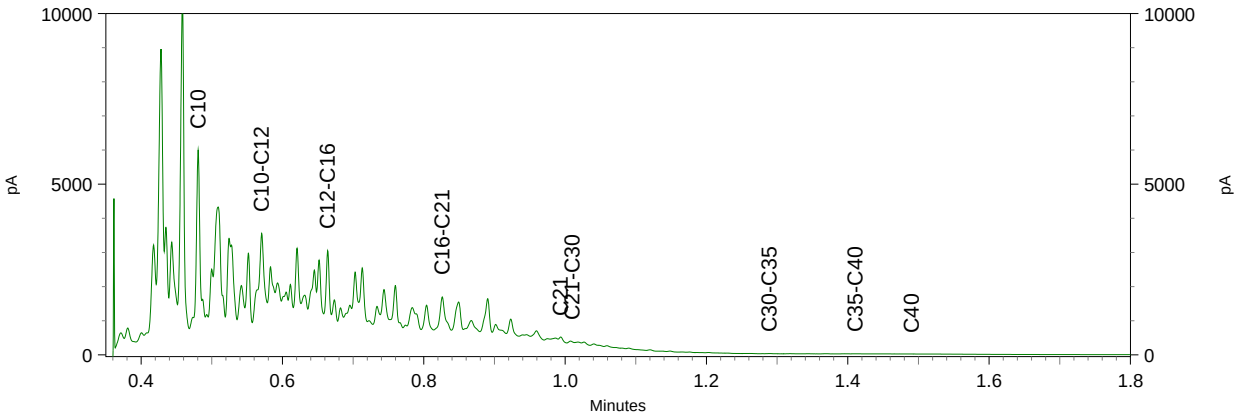
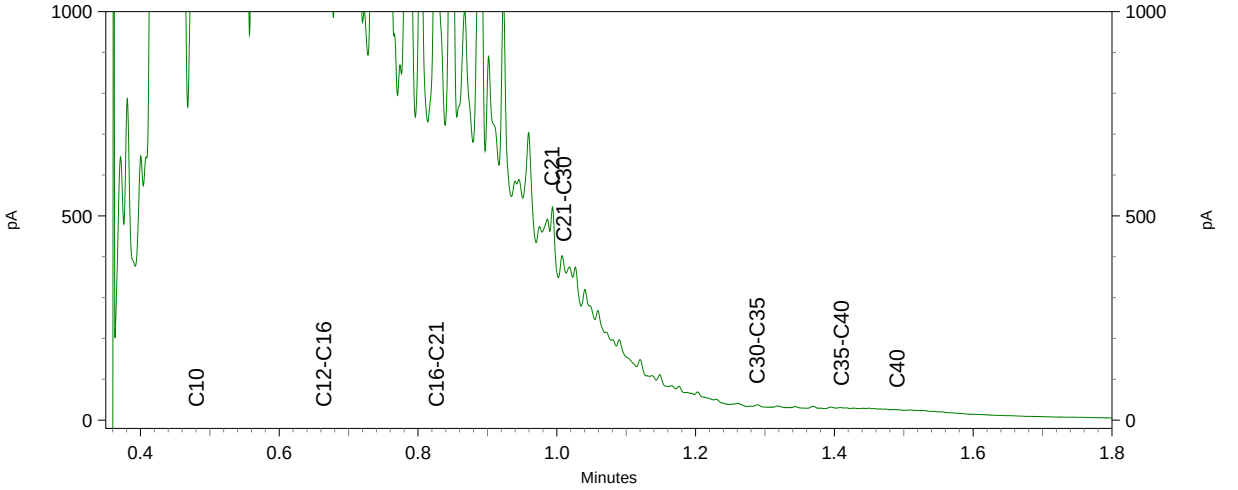
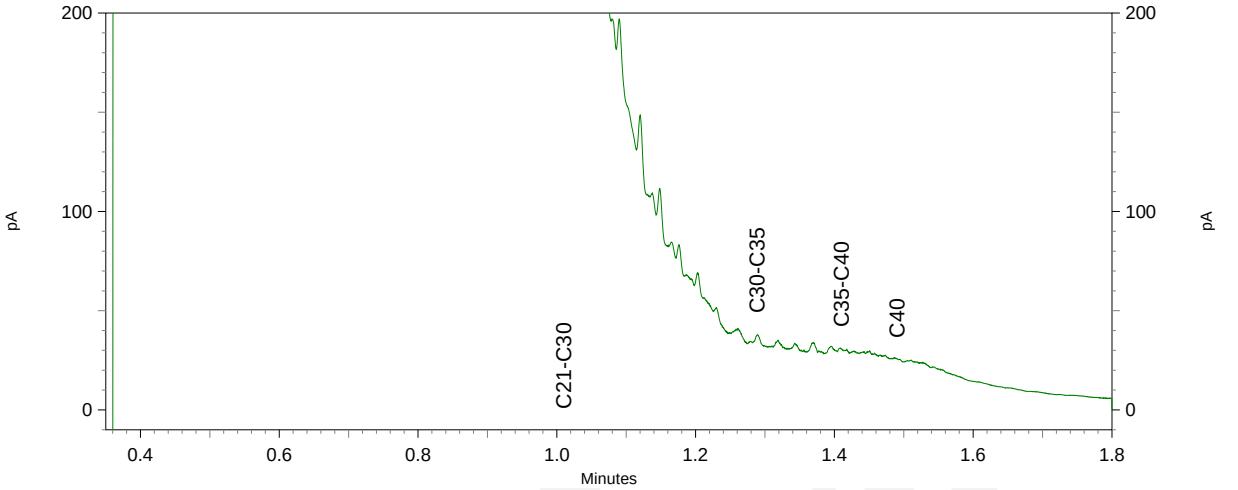
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702509
Certificate no.: 2020181955
Sample description.: 34z
V







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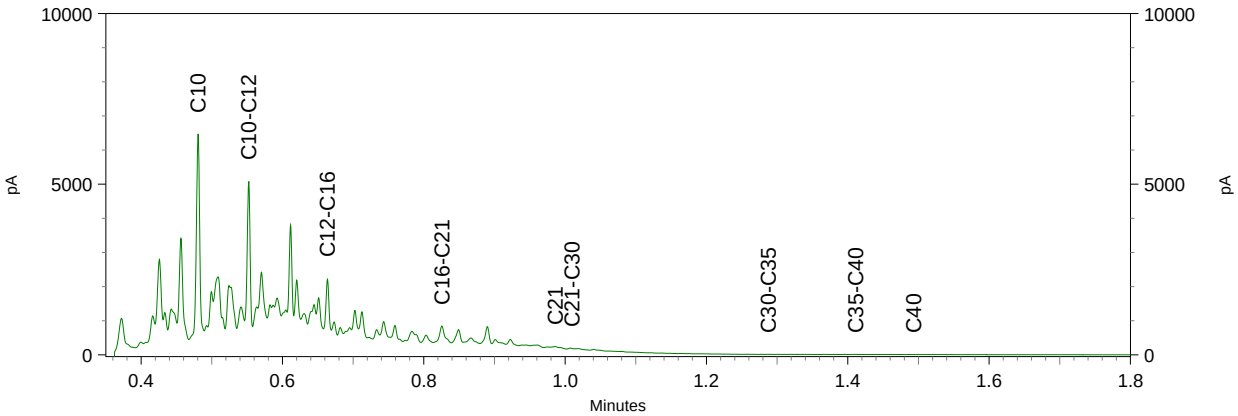
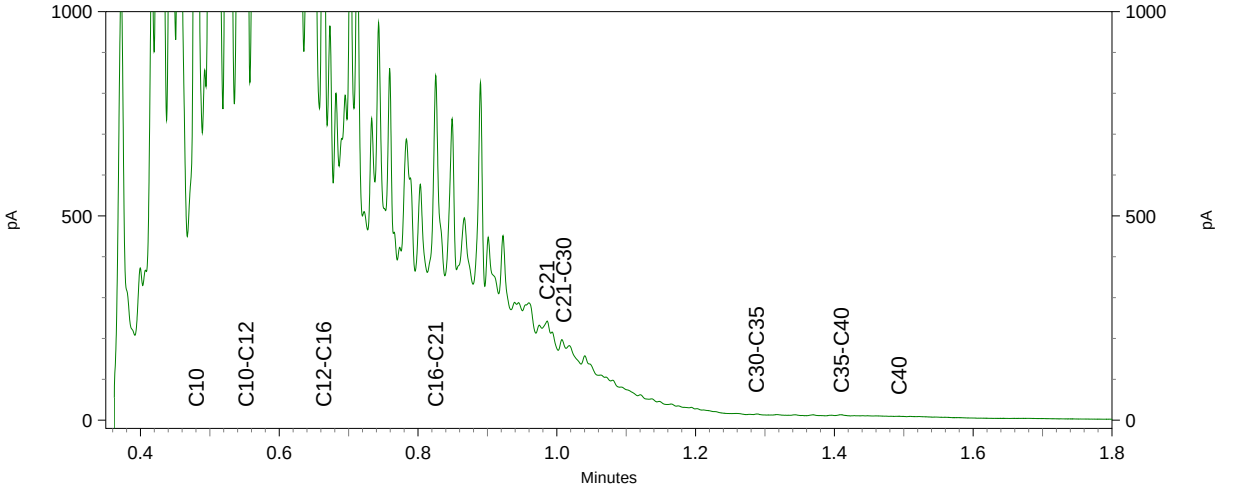
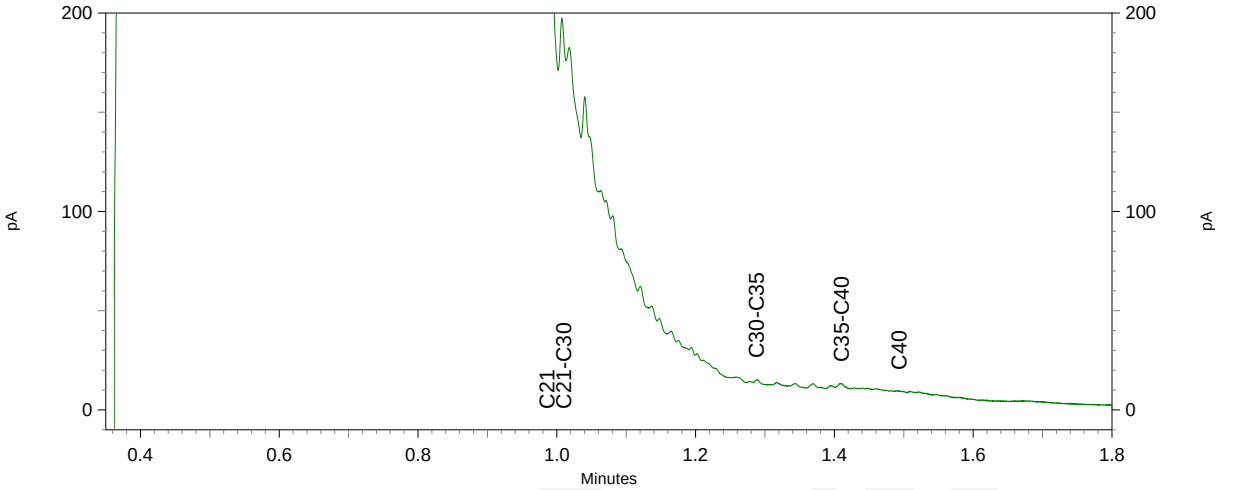
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702510
Certificate no.: 2020181955
Sample description.: 40z
V







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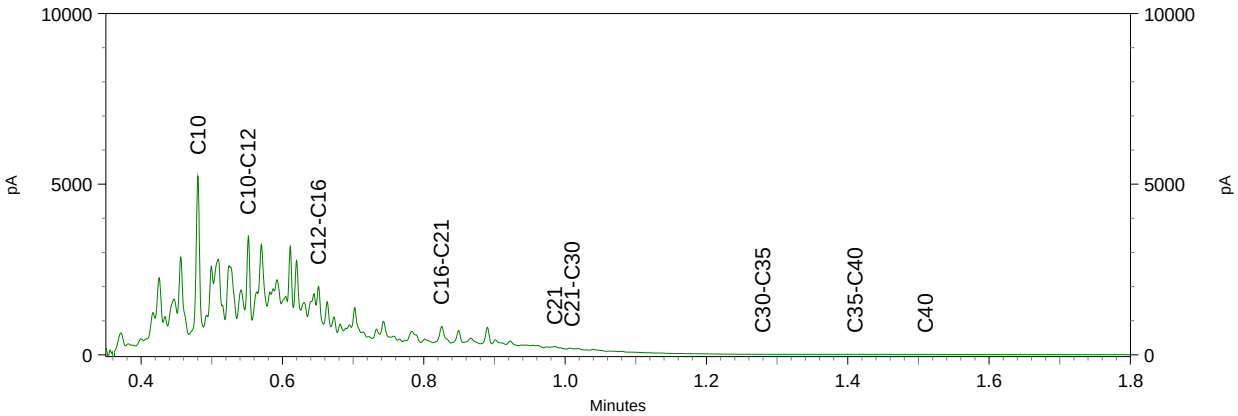
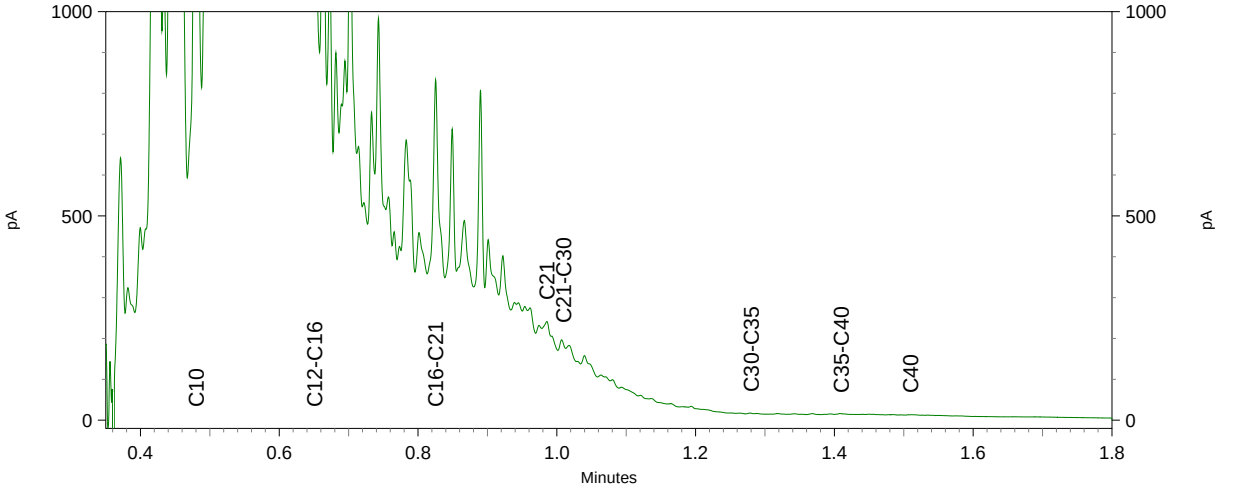
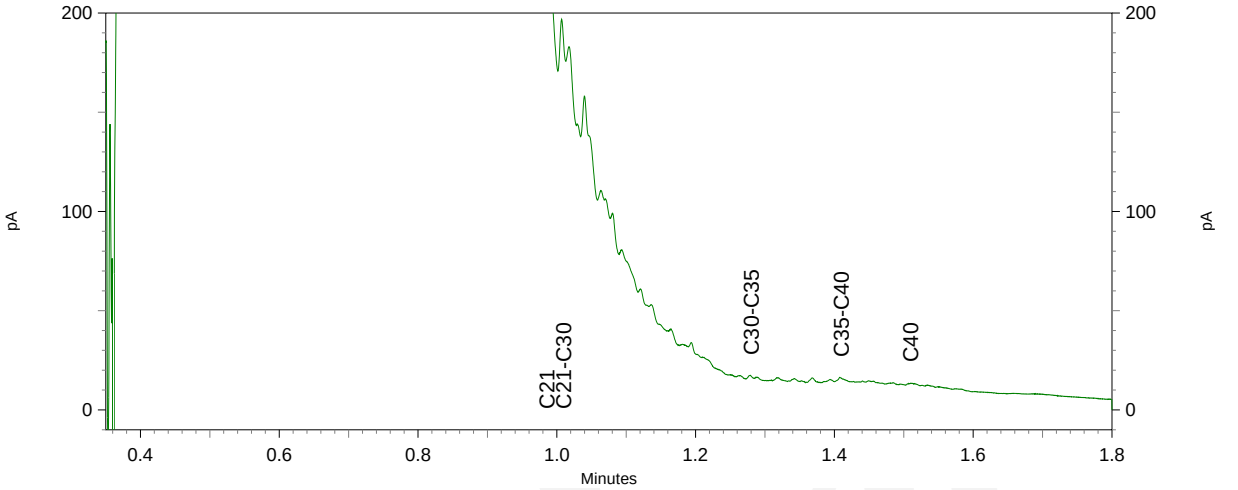
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702511
Certificate no.: 2020181955
Sample description.: 81z
V







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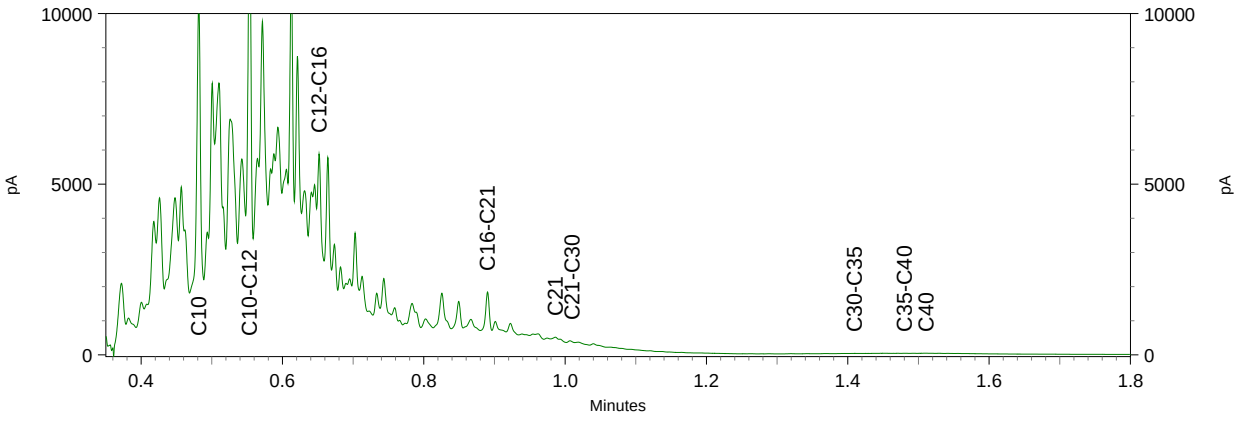
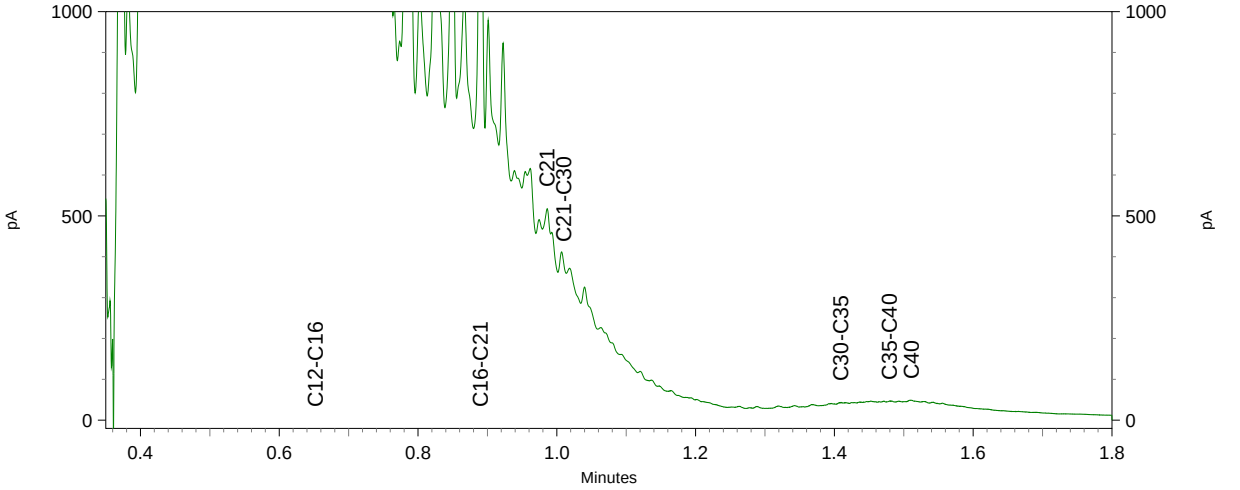
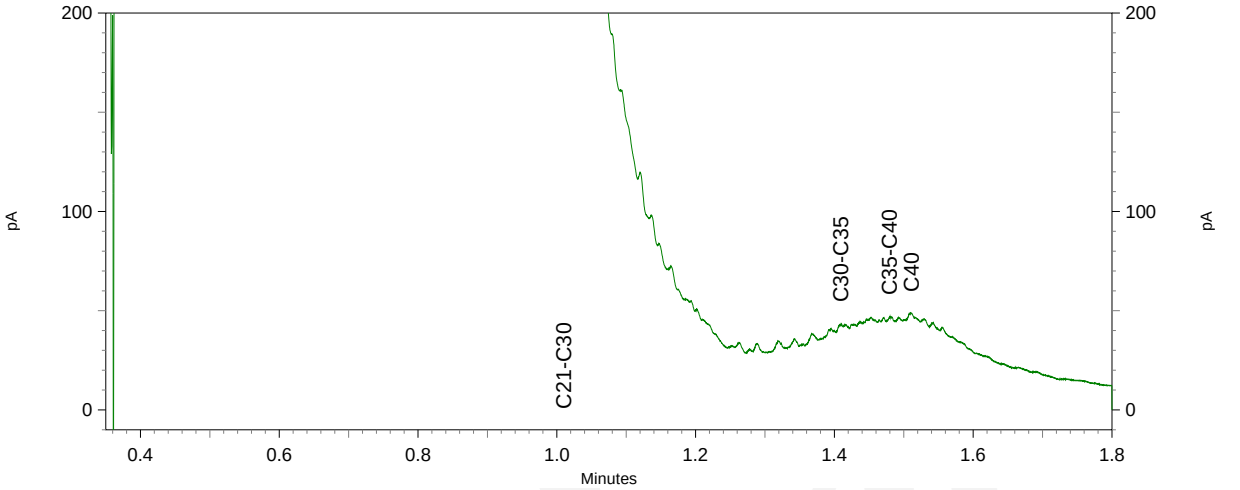
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702512
Certificate no.: 2020181955
Sample description.: 80z
V







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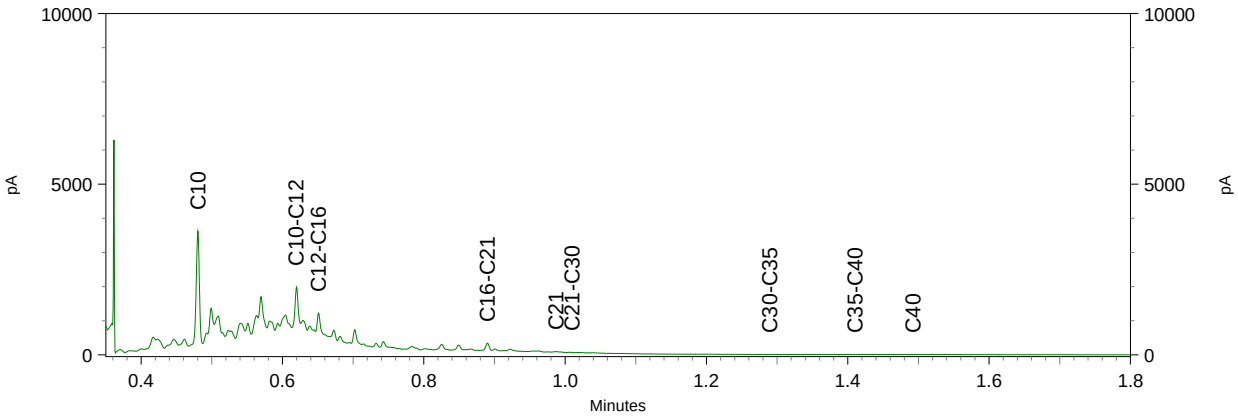
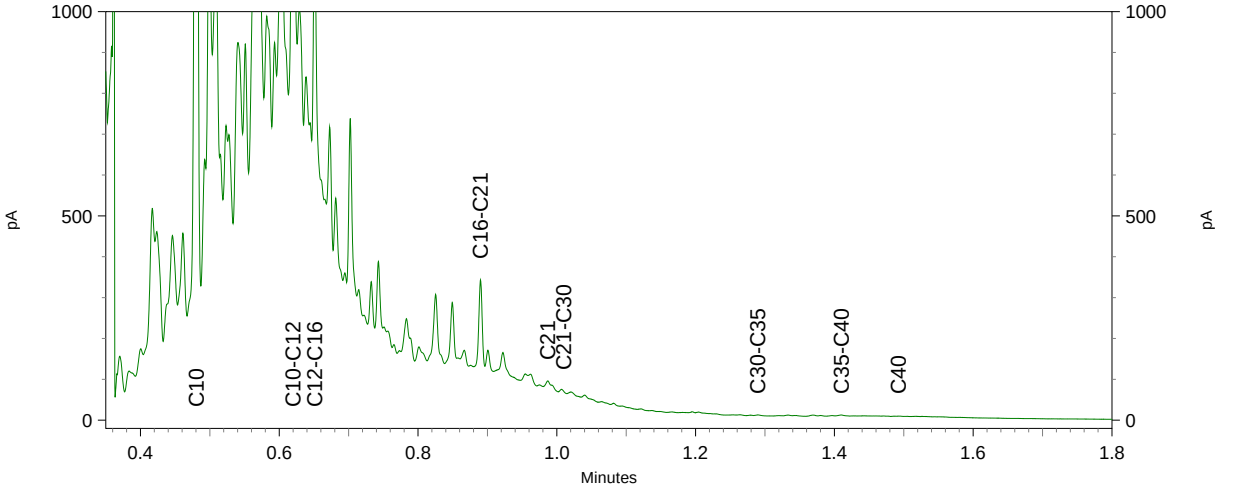
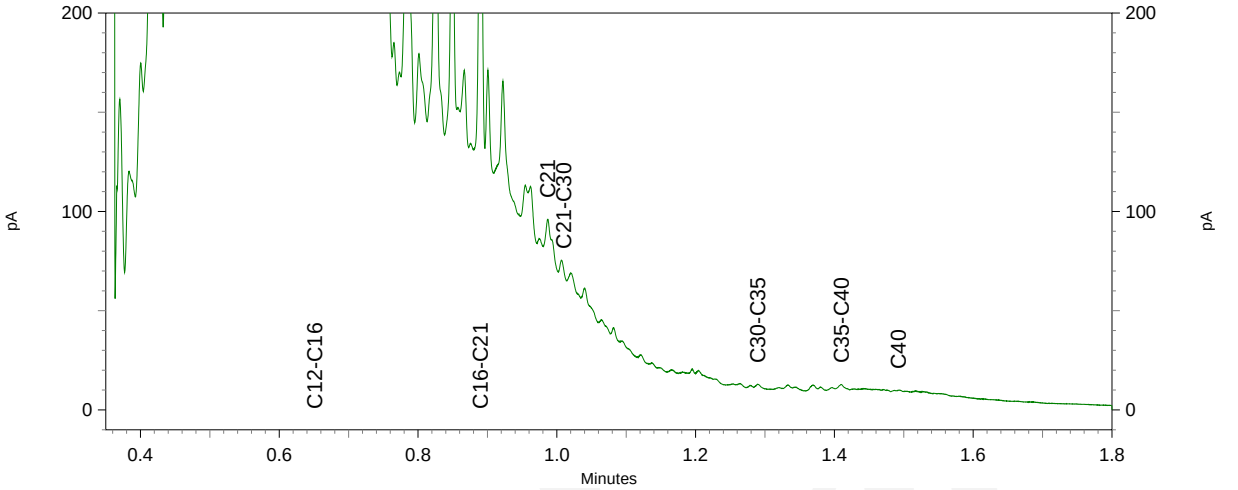
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702513
Certificate no.: 2020181955
Sample description.: 74z-1
V







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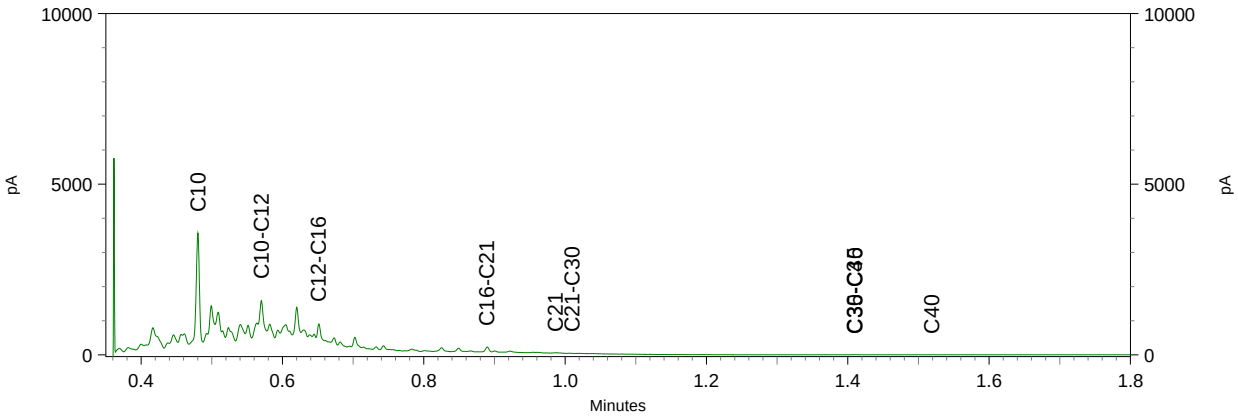
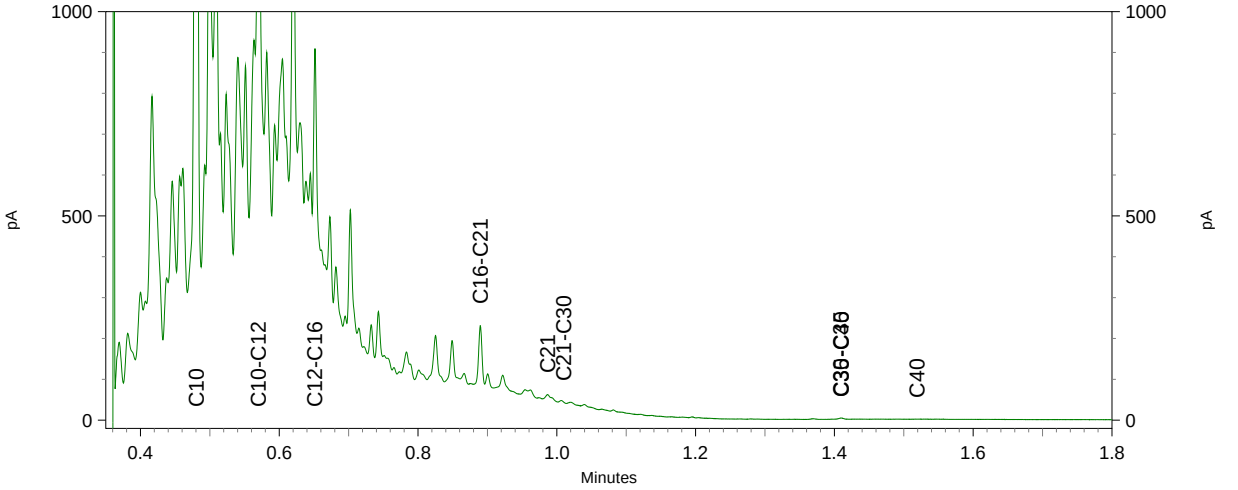
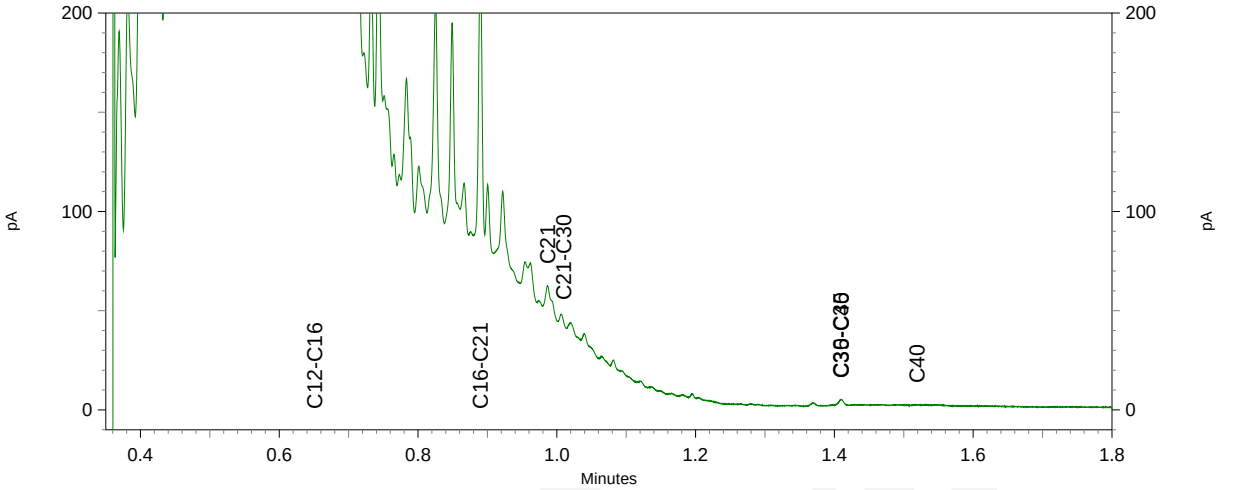
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702514
Certificate no.: 2020181955
Sample description.: 74z-2
V







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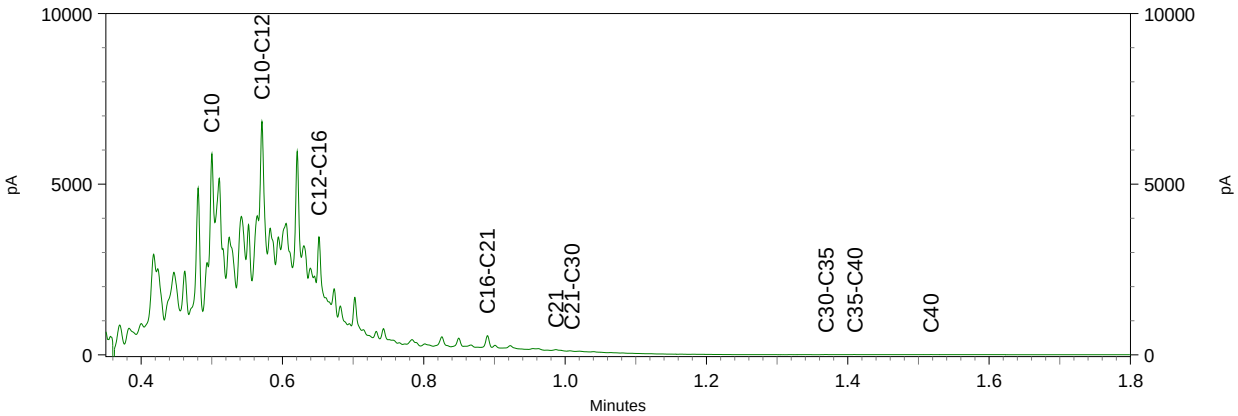
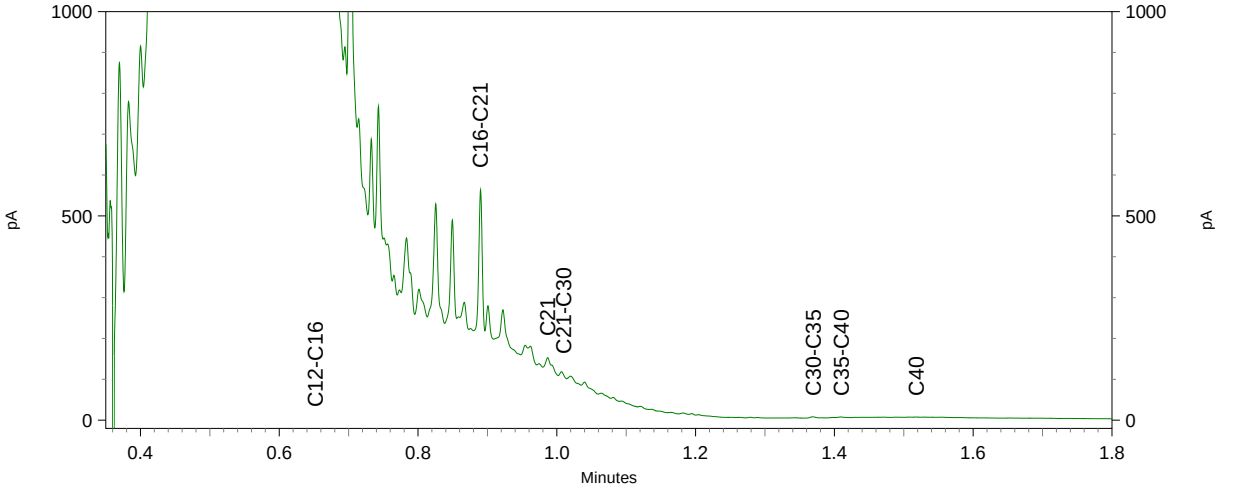
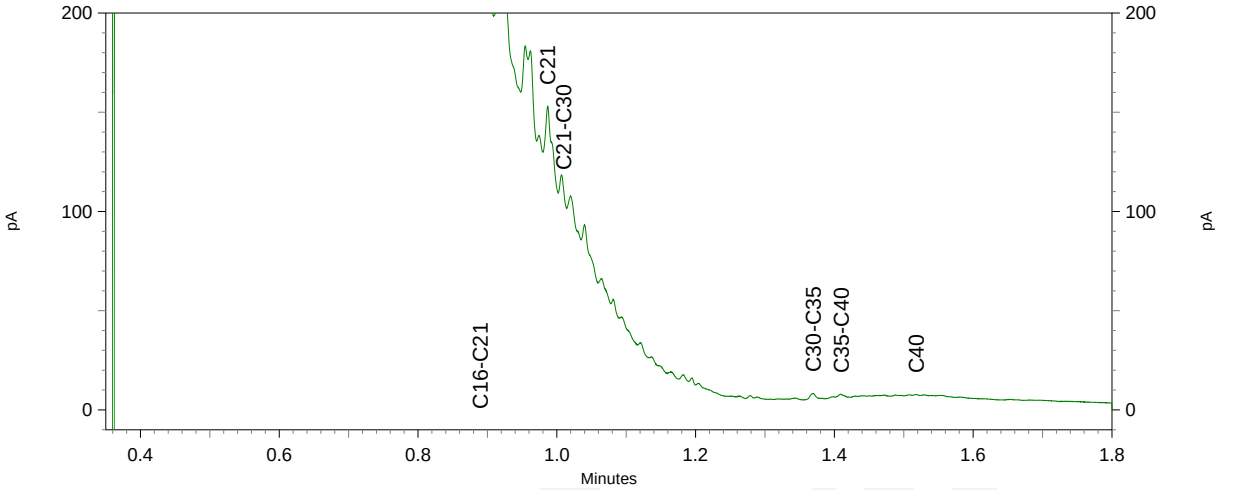
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702515
Certificate no.: 2020181955
Sample description.: 71z
V







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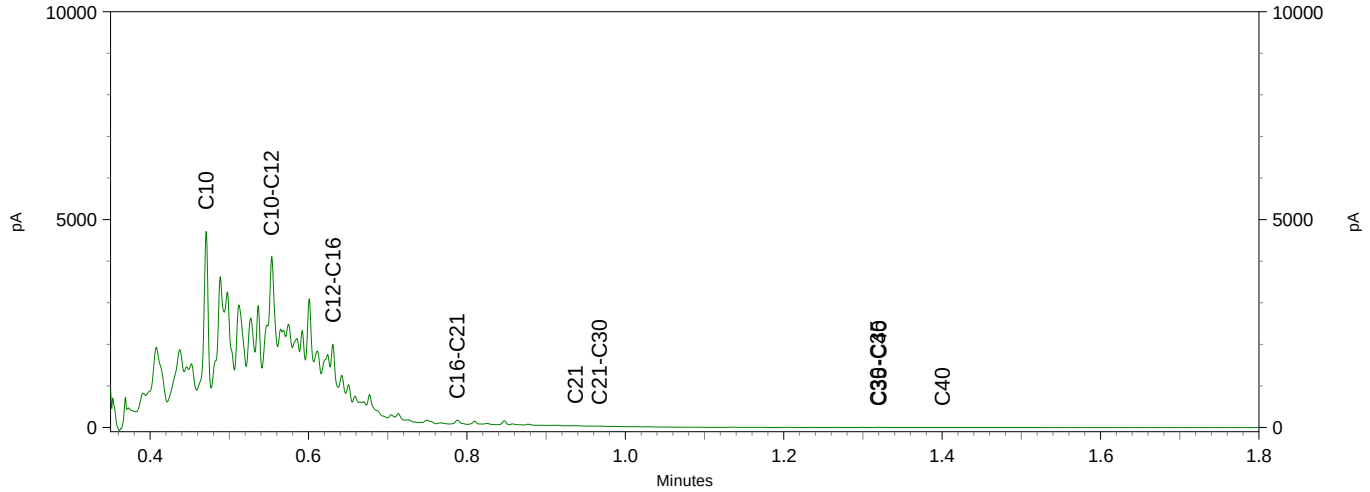
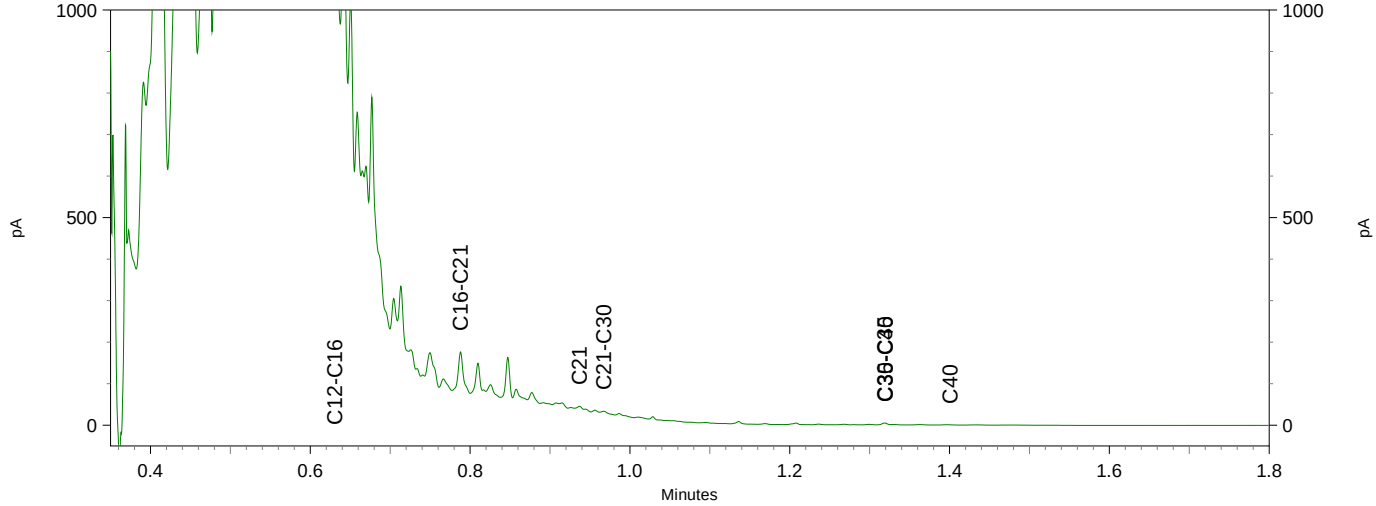
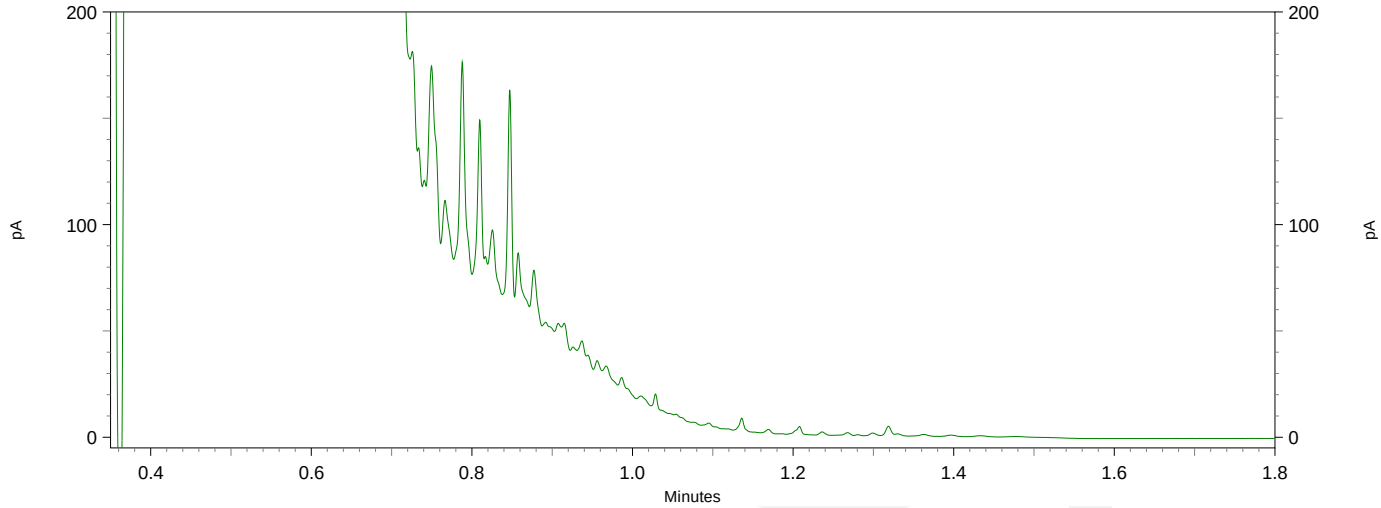
Chromatogram TPH/ Mineral Oil

Sample ID.: 11702516 1119_41F_2 HI BSL
Certificate no.:2020181955
Sample description.: 66z
V







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VentEko Ltd.
Att. Edgars Dimitrijevs
22 Rigas Str.
LV-2107 Pinki, Babite District
LATVIA

Certificate of analysis

Date: 30-Nov-2020

Please find enclosed the analytical results of the test carried out for the project.

Certificate number/Version	2020185248/1
Your project number	VNT-SAN/2020
Your project name	VNT
Your order number	
Samples received on	19-Nov-2020

This Certificate of Analysis shall not be reproduced except in full, without written approval of the laboratory. Interpretations and opinions are outside the scope of our accreditation, and all results relate only to samples supplied.

Soil samples will be stored for a period of 4 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above mentioned periods have expired. If you require Eurofins Analytico to store the samples for a longer period, please complete this page and return it to Eurofins Analytico at least one businessday before the period is due to expire.
The costs of prolonged storage periods may be found in our pricelist.

Storage period:
Date: Name: Signature:

We are confident that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Eurofins Analytico B.V.

Ing. A. Veldhuizen
Technical Manager

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020185248/1
Your project name	VNT	Start date	20-Nov-2020
Your order number		End date analysis	30-Nov-2020
Your sample taker		Report date	30-Nov-2020/09:35
		Annex	A,B,C,D
		Page	1/5

	Analysis	Unit	1	2	3	4	5
	Characteristics						
Q	Dry matter	% (w/w)	92.9	84.9	91.5	92.1	95.9
	Petroleum Hydrocarbons						
	EPH (C10-C12)	mg/kg dm	5300	2600	8300	3600	1300
	EPH (C12-C16)	mg/kg dm	5600	2100	5300	1800	1000
	EPH (C16-C21)	mg/kg dm	2900	820	1500	200	390
	EPH (C21-C30)	mg/kg dm	770	190	310	43	93
	EPH (C30-C35)	mg/kg dm	110	7.6	10	<6.0	<6.0
	EPH (C35-C40)	mg/kg dm	59	<6.0	<6.0	<6.0	<6.0
Q	EPH Sum (C10-C40)	mg/kg dm	15000 1)	5800 1)	15000 1)	5600 1)	2800 1)
	Chromatogram TPH (GC)		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
1	37z	Soil, Sediment	11712412
2	45z	Soil, Sediment	11712413
3	53z	Soil, Sediment	11712414
4	57z	Soil, Sediment	11712415
5	107z	Soil, Sediment	11712416

Q: Dutch Accreditation Council (RvA) accredited test
A: AP04 accredited test
S: AS SIKB recognized test
V: VLAREL recognized test
W: Walloon region recognized test

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Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
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Tel. +31 (0)34 242 63 00
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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020185248/1
Your project name	VNT	Start date	20-Nov-2020
Your order number		End date analysis	30-Nov-2020
Your sample taker		Report date	30-Nov-2020/09:35
		Annex	A,B,C,D
		Page	2/5

	Analysis	Unit	6	7	8	9	10
	Characteristics						
Q	Dry matter	% (w/w)		54.1			
Q	Dry matter	% (w/w)	95.0		86.8	95.1	86.1
	Petroleum Hydrocarbons						
	EPH (C10-C12)	mg/kg dm	150	3100	540	620	2400
	EPH (C12-C16)	mg/kg dm	170	2900	440	1700	2500
	EPH (C16-C21)	mg/kg dm	90	1500	280	1100	1400
	EPH (C21-C30)	mg/kg dm	22	390	94	200	400
	EPH (C30-C35)	mg/kg dm	<6.0	55	19	<6.0	27
	EPH (C35-C40)	mg/kg dm	<6.0	30	9.8	9.1	11
Q	EPH Sum (C10-C40)	mg/kg dm	440	8000 1)	1400 1)	3600 1)	6700 1)
	Chromatogram TPH (GC)		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
6	108z	Soil, Sediment	11712417
7	110z	Soil, Sediment	11712418
8	112z	Soil, Sediment	11712419
9	118z	Soil, Sediment	11712420
10	96z	Soil, Sediment	11712421

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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020185248/1
Your project name	VNT	Start date	20-Nov-2020
Your order number		End date analysis	30-Nov-2020
Your sample taker		Report date	30-Nov-2020/09:35
		Annex	A,B,C,D
		Page	3/5

	Analysis	Unit	11	12	13	14	15
	Characteristics						
Q	Dry matter	% (w/w)	85.2	82.7	79.2	87.7	80.1
	Petroleum Hydrocarbons						
	EPH (C10-C12)	mg/kg dm	4300	3300	4000	2700	280
	EPH (C12-C16)	mg/kg dm	3600	3200	7900	2700	1000
	EPH (C16-C21)	mg/kg dm	1400	1500	4900	1300	730
	EPH (C21-C30)	mg/kg dm	290	320	1000	290	240
	EPH (C30-C35)	mg/kg dm	<6.0	7.7	13	<6.0	48
	EPH (C35-C40)	mg/kg dm	<6.0	<6.0	<6.0	<6.0	24
Q	EPH Sum (C10-C40)	mg/kg dm	9600 [1)]	8300 [1)]	18000 [1)]	7000 [1)]	2300
	Chromatogram TPH (GC)		See annex	See annex	See annex	See annex	See annex
	Polycyclic Aromatic Hydrocarbons, PAH						
Q	Naphtalene	mg/kg dm	0.50	4.7	7.0	2.0	0.41
Q	Acenaphtylene	mg/kg dm	<0.010	0.085	0.20	0.046	0.094
Q	Acenaphtene	mg/kg dm	0.086	0.14	0.45	0.12	0.15
Q	Fluorene	mg/kg dm	0.13	0.27	0.73	0.19	0.32
Q	Phenanthrene	mg/kg dm	0.047	0.27	1.0	0.14	0.62
Q	Anthracene	mg/kg dm	<0.010	<0.010	0.062	<0.010	0.014
Q	Fluoranthene	mg/kg dm	0.016	0.011	0.055	0.025	0.013
Q	Pyrene	mg/kg dm	0.017	0.022	0.059	0.032	0.023
Q	Benzo(a)anthracene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Chrysene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Benzo(b)fluoranthene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Benzo(k)fluoranthene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Benzo(a)pyrene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Dibenzo(ah)anthracene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Benzo(ghi)perylene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	Indeno(123cd)pyrene	mg/kg dm	<0.010	<0.010	<0.010	<0.010	<0.010
Q	PAH 10 VROM (sum)	mg/kg dm	0.56	5.0	8.1	2.2	1.1
Q	PAH 16 EPA (sum)	mg/kg dm	0.79 [3)]	5.5 [3)]	9.6 [3)]	2.5 [3)]	1.6 [3)]

No.	Your sample description	Specified sample matrix	Sample nr.
11	83z	Soil, Sediment	11712422
12	84z	Soil, Sediment	11712423
13	85z	Soil, Sediment	11712424
14	87z	Soil, Sediment	11712425
15	92z	Soil, Sediment	11712426

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020185248/1
Your project name	VNT	Start date	20-Nov-2020
Your order number		End date analysis	30-Nov-2020
Your sample taker		Report date	30-Nov-2020/09:35
		Annex	A,B,C,D
		Page	4/5

	Analysis	Unit	16	17	18	19	20
	Characteristics						
Q	Dry matter	% (w/w)	78.0	86.9	90.7	83.0	87.5
	Petroleum Hydrocarbons						
	EPH (C10-C12)	mg/kg dm	4000	7500	7800	770	6400
	EPH (C12-C16)	mg/kg dm	4800	7300	5600	670	4800
	EPH (C16-C21)	mg/kg dm	2600	3600	1700	280	1600
	EPH (C21-C30)	mg/kg dm	550	930	360	61	340
	EPH (C30-C35)	mg/kg dm	8.4	73	<6.0	<6.0	<6.0
	EPH (C35-C40)	mg/kg dm	<6.0	33	<6.0	<6.0	<6.0
Q	EPH Sum (C10-C40)	mg/kg dm	12000 [1]	19000 [1]	15000 [1]	1800 [1]	13000 [1]
	Chromatogram TPH (GC)		See annex	See annex	See annex	See annex	See annex
	Polycyclic Aromatic Hydrocarbons, PAH						
Q	Naphtalene	mg/kg dm	33	41	1.5	2.0	1.4
Q	Acenaphtylene	mg/kg dm	0.14	0.22	0.072	0.011	<0.010
Q	Acenaphtene	mg/kg dm	0.37	0.69	0.20	0.028	0.062
Q	Fluorene	mg/kg dm	0.77	1.4	0.27	0.049	0.056
Q	Phenanthrene	mg/kg dm	0.83	2.2	0.20	0.043	0.039
Q	Anthracene	mg/kg dm	0.11	<0.050 [2]	<0.010	<0.010	<0.010
Q	Fluoranthene	mg/kg dm	0.080	0.077	0.017	<0.010	0.013
Q	Pyrene	mg/kg dm	0.12	0.14	0.023	<0.010	0.023
Q	Benzo(a)anthracene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	Chrysene	mg/kg dm	0.051	<0.050 [2]	<0.010	<0.010	<0.010
Q	Benzo(b)fluoranthene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	Benzo(k)fluoranthene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	Benzo(a)pyrene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	Dibenzo(ah)anthracene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	Benzo(ghi)perylene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	Indeno(123cd)pyrene	mg/kg dm	<0.050 [2]	<0.050 [2]	<0.010	<0.010	<0.010
Q	PAH 10 VROM (sum)	mg/kg dm	34	43	1.7	2.1	1.4
Q	PAH 16 EPA (sum)	mg/kg dm	35	45	2.3 [3]	2.1 [3]	1.6 [3]

No.	Your sample description	Specified sample matrix	Sample nr.
16	95z	Soil, Sediment	11712427
17	97z	Soil, Sediment	11712428
18	99z	Soil, Sediment	11712429
19	100z	Soil, Sediment	11712430
20	102z	Soil, Sediment	11712431

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020185248/1
Your project name	VNT	Start date	20-Nov-2020
Your order number		End date analysis	30-Nov-2020
Your sample taker		Report date	30-Nov-2020/09:35
		Annex	A,B,C,D
		Page	5/5

	Analysis	Unit	21
	Characteristics		
Q	Dry matter	% (w/w)	89.4
	Petroleum Hydrocarbons		
	EPH (C10-C12)	mg/kg dm	1200
	EPH (C12-C16)	mg/kg dm	2900
	EPH (C16-C21)	mg/kg dm	2500
	EPH (C21-C30)	mg/kg dm	1300
	EPH (C30-C35)	mg/kg dm	390
	EPH (C35-C40)	mg/kg dm	190
Q	EPH Sum (C10-C40)	mg/kg dm	8400 [1)]
	Chromatogram TPH (GC)		See annex
	Polycyclic Aromatic Hydrocarbons, PAH		
Q	Naphtalene	mg/kg dm	11
Q	Acenaphtylene	mg/kg dm	0.25
Q	Acenaphtene	mg/kg dm	0.98
Q	Fluorene	mg/kg dm	1.7
Q	Phenanthrene	mg/kg dm	3.7
Q	Anthracene	mg/kg dm	0.29
Q	Fluoranthene	mg/kg dm	0.13
Q	Pyrene	mg/kg dm	0.41
Q	Benzo(a)anthracene	mg/kg dm	0.045
Q	Chrysene	mg/kg dm	0.11
Q	Benzo(b)fluoranthene	mg/kg dm	0.039
Q	Benzo(k)fluoranthene	mg/kg dm	<0.010
Q	Benzo(a)pyrene	mg/kg dm	0.024
Q	Dibenzo(ah)anthracene	mg/kg dm	<0.010
Q	Benzo(ghi)perylene	mg/kg dm	0.033
Q	Indeno(123cd)pyrene	mg/kg dm	0.012
Q	PAH 10 VROM (sum)	mg/kg dm	16
Q	PAH 16 EPA (sum)	mg/kg dm	19

No.	Your sample description	Specified sample matrix	Sample nr.
21	106z	Soil, Sediment	11712432

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Verified
ASM
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TESTING RvA L010

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
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Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020185248/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11712412	37z				
0520200189	37z	40	60	16-Nov-2020	37z
11712413	45z				
0520199453	45z	500	530	16-Nov-2020	45z
11712414	53z				
0520200185	53z	410	430	16-Nov-2020	53z
11712415	57z				
0520200252	57z	420	450	16-Nov-2020	57z
11712416	107z				
0520199468	107z	280	300	16-Nov-2020	107z
11712417	108z				
0520199423	108z	310	330	16-Nov-2020	108z
11712418	110z				
0520199424	110z	430	450	16-Nov-2020	110z
11712419	112z				
0520199462	112z	430	450	16-Nov-2020	112z
11712420	118z				
0520200227	118z	490	520	16-Nov-2020	118z
11712421	96z				
0520199467	96z	280	300	16-Nov-2020	96z
11712422	83z				
0520199430	83z	390	410	16-Nov-2020	83z
11712423	84z				
0520199459	84z	390	410	16-Nov-2020	84z
11712424	85z				
0520199445	85z	350	400	16-Nov-2020	85z
11712425	87z				
0520199458	87z	330	350	16-Nov-2020	87z
11712426	92z				
0520199449	92z	450	500	16-Nov-2020	92z
11712427	95z				
0520199450	95z	400	450	16-Nov-2020	95z

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
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Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020185248/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11712428	97z				
0520199444	97z	340	360	16-Nov-2020	97z
11712429	99z				
0520199460	99z	380	400	16-Nov-2020	99z
11712430	100z				
0520199443	100z	430	450	16-Nov-2020	100z
11712431	102z				
0520199470	102z	400	450	16-Nov-2020	102z
11712432	106z				
0520199465	106z	300	350	16-Nov-2020	106z

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
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Annex (B) concerning remarks referring to certificate of analysis 2020185248/1

Remark 1)
Volatile oil fraction present.

Remark 2)
Reporting limit increased due to dilution of sample.

Remark 3)
Indicative value(s) due to interfering matrix.

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
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Annex (C) method references belonging to certificate of analysis 2020185248/1

Analysis	Method	Technique	Method reference
Characteristics			
Dry matter	W0104	Gravimetry	NEN-EN 15934 & CMA 2/II/A.1
Dry matter	W0104	Gravimetry	NEN-EN 15934 & CMA 2/II/A.1
Petroleum Hydrocarbons			
EPH (C10-C40)	W0202	GC/FID	NEN-EN-ISO 16703
Chromatogram TPH (GC)	W0202	GC/FID	NEN-EN-ISO 16703
Polycyclic Aromatic Hydrocarbons, PAH			
PAH (16) (EPA)	W0271	GC-MS	NEN-ISO 18287

Additional information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version June 2020.

Annex (D) remarks concerning the sampling and preservation period 2020185248/1

Non compliance(s) of the criteria is(are) observed that may have influenced the accuracy of the test results of samples mentioned below.

Analysis	Sample nr.
The preservation term for this parameter has been expired.	
TPH (pretreatment)	11712412
	11712413
	11712414
	11712415
	11712416
	11712417
	11712418
	11712419
	11712420
	11712421
	11712422
	11712423
	11712424
	11712425
	11712426
	11712427
	11712428
	11712429
	11712430
	11712431
	11712432

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

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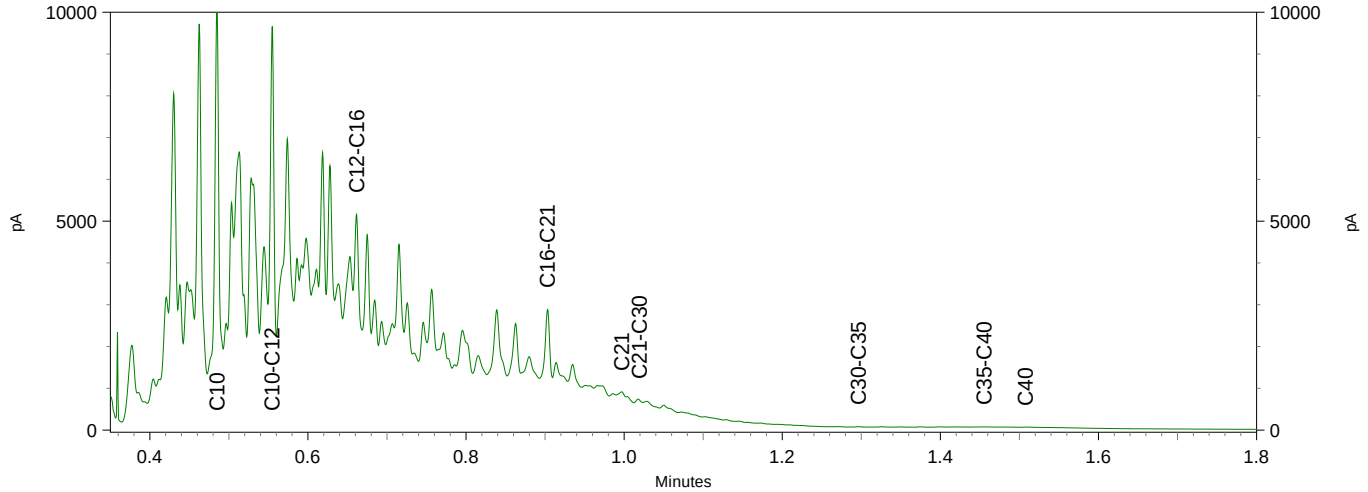
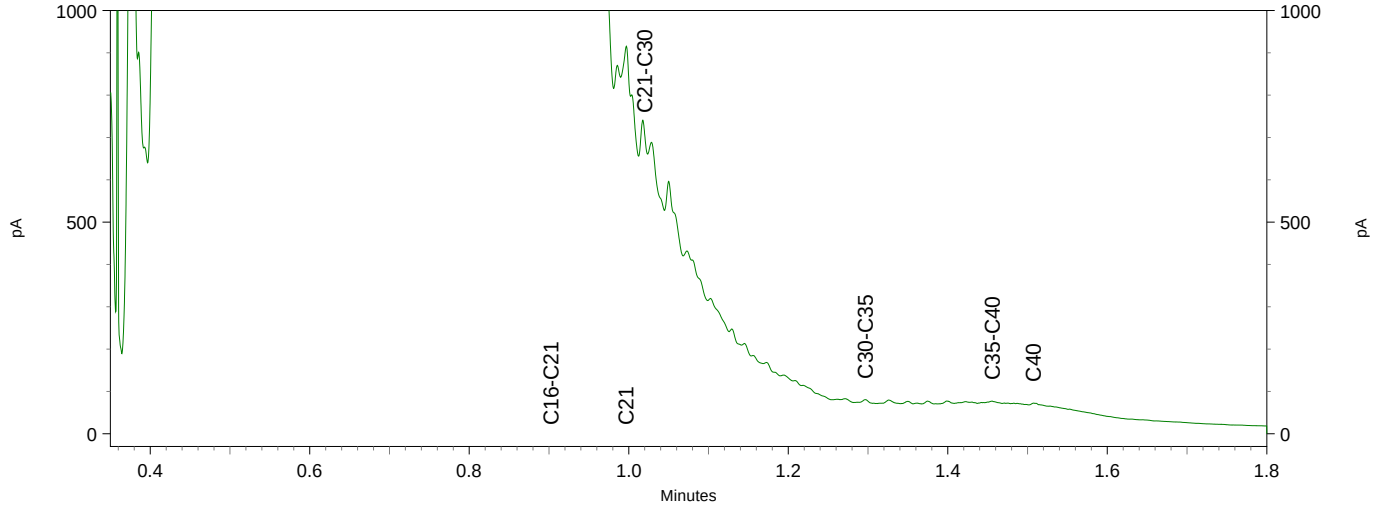
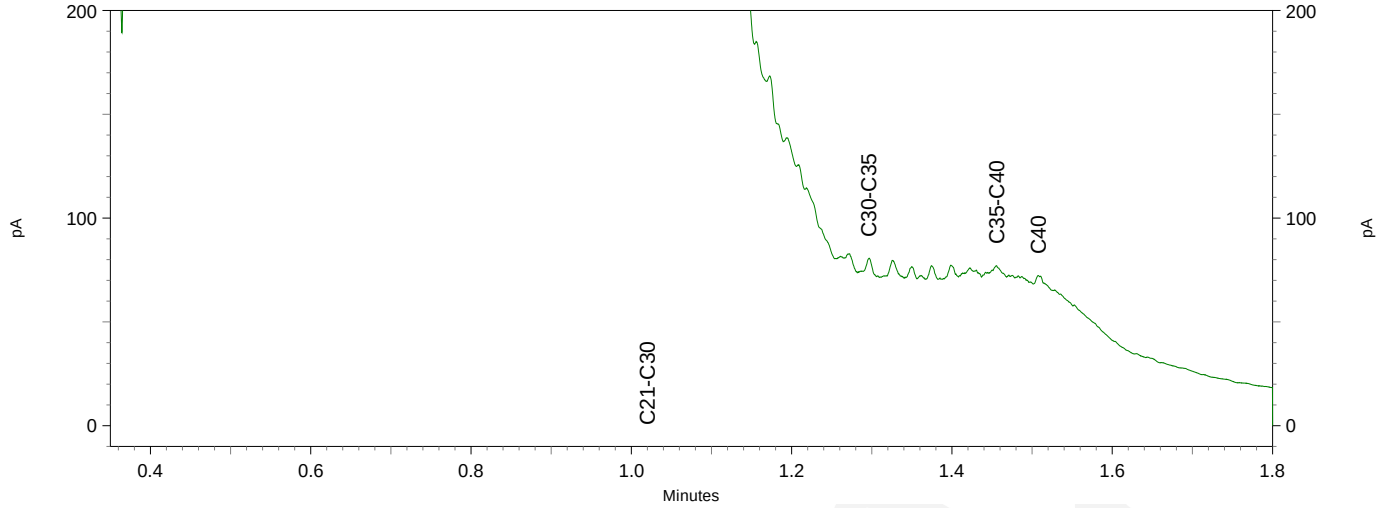
Chromatogram TPH/ Mineral Oil

Sample ID.: 11712412
Certificate no.: 2020185248
Sample description.: 37z
V

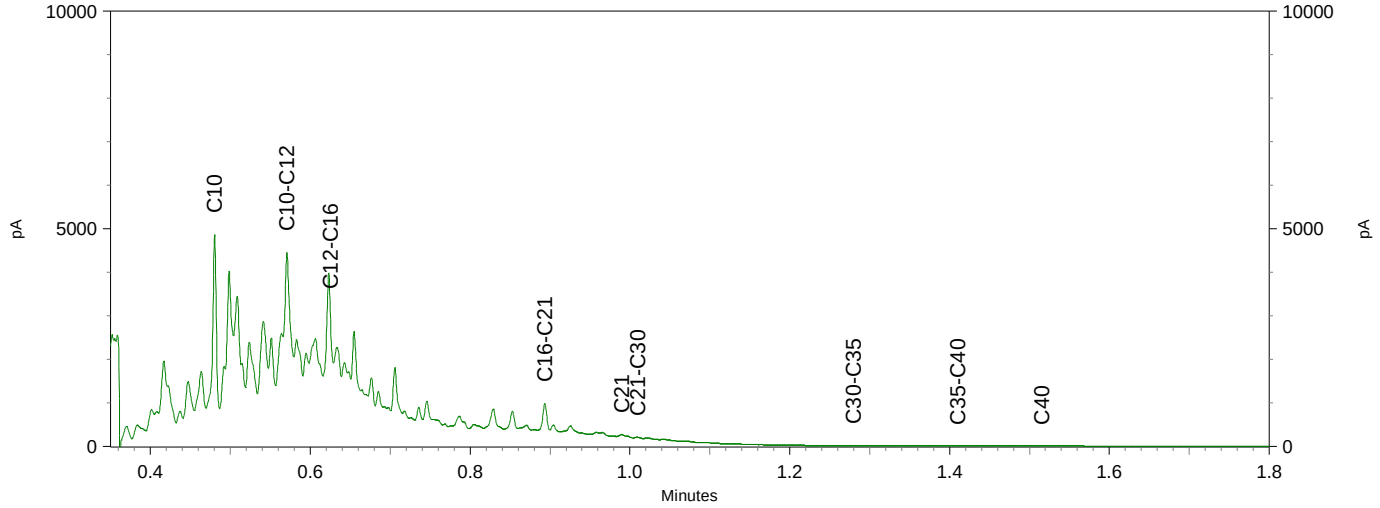


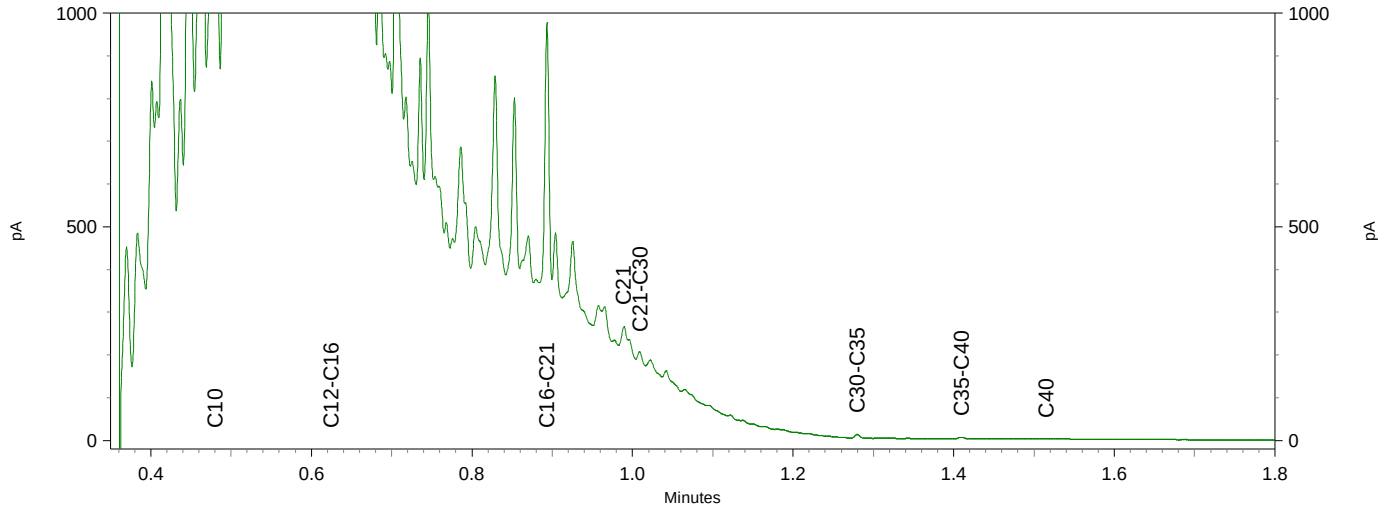


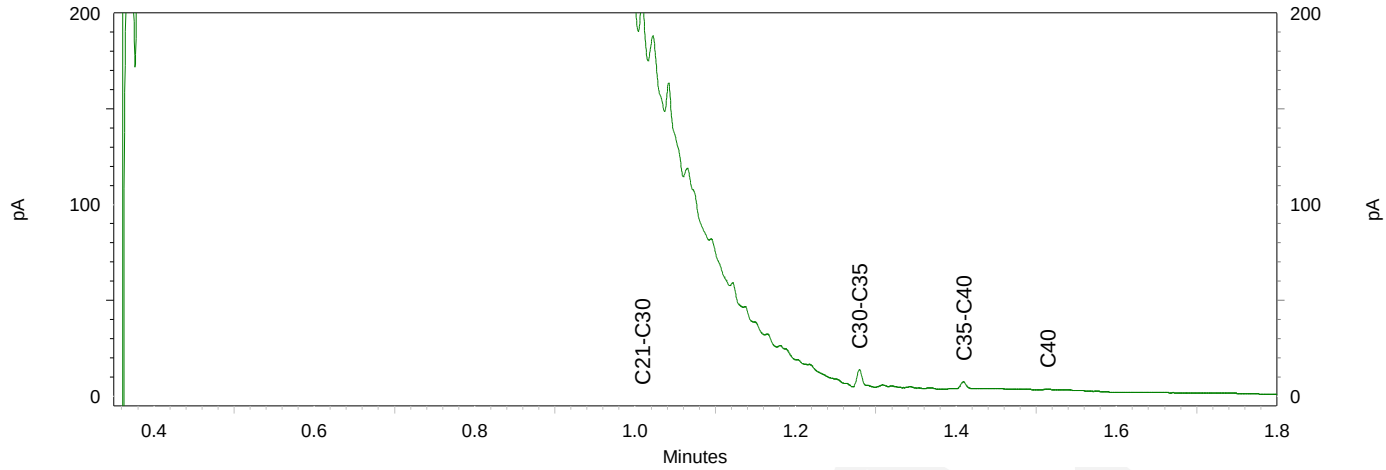


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712413
Certificate no.: 2020185248
Sample description.: 45z
V

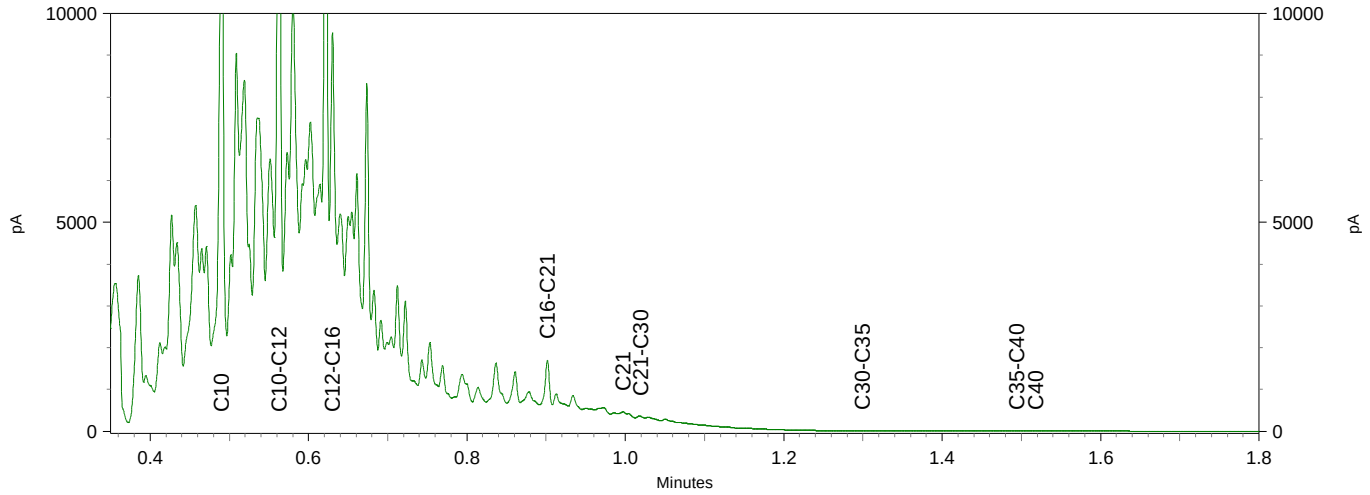


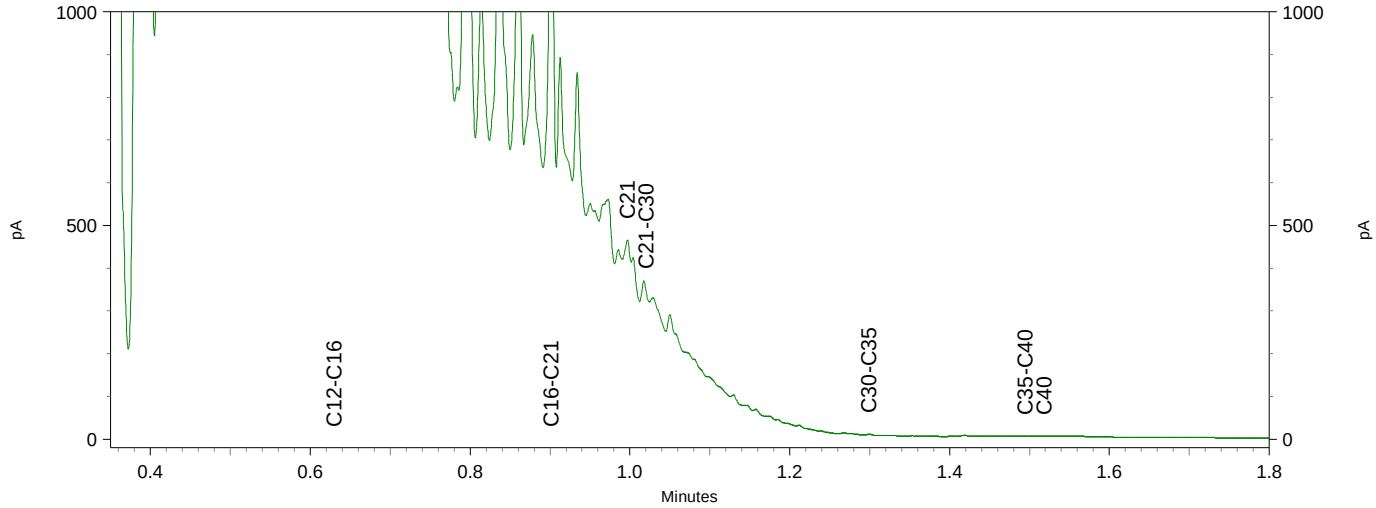


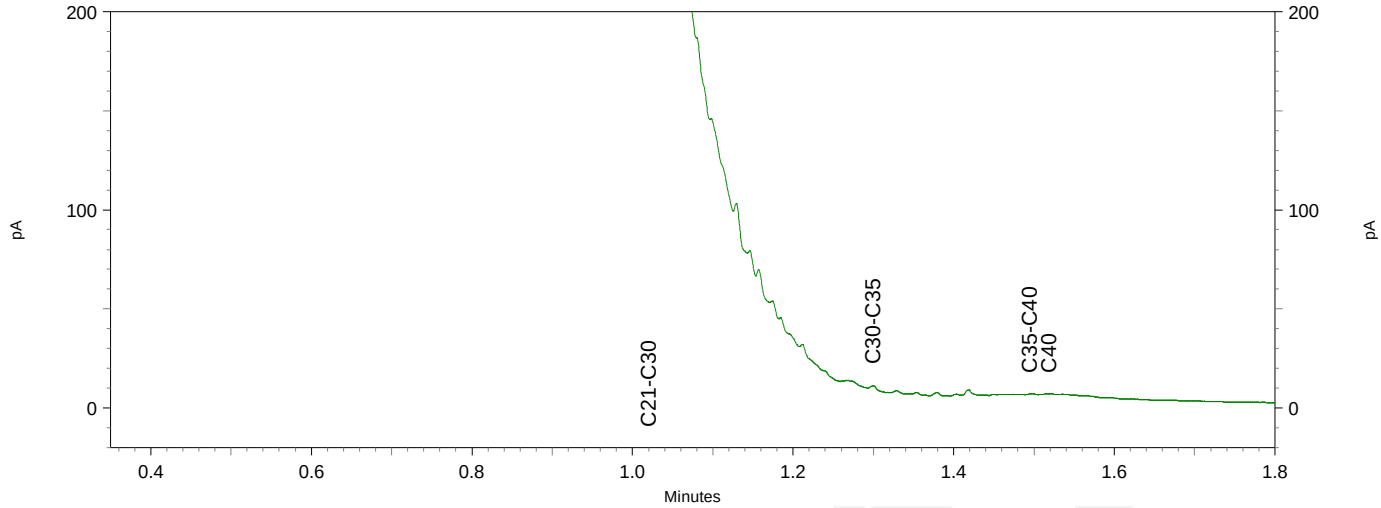


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712414
Certificate no.:2020185248
Sample description.: 53z
V

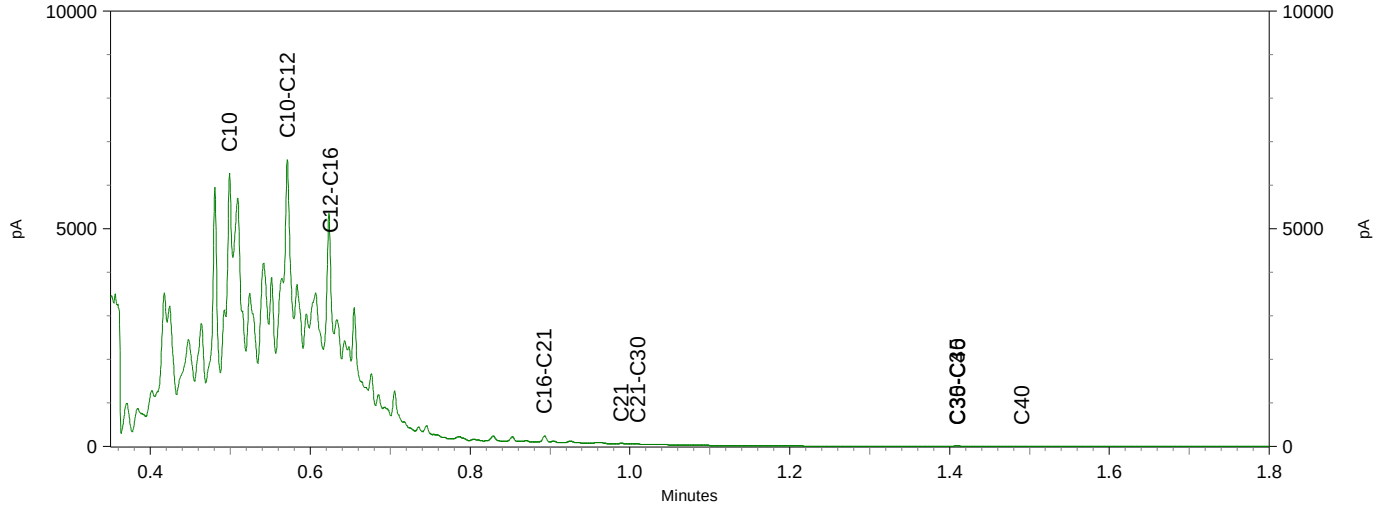


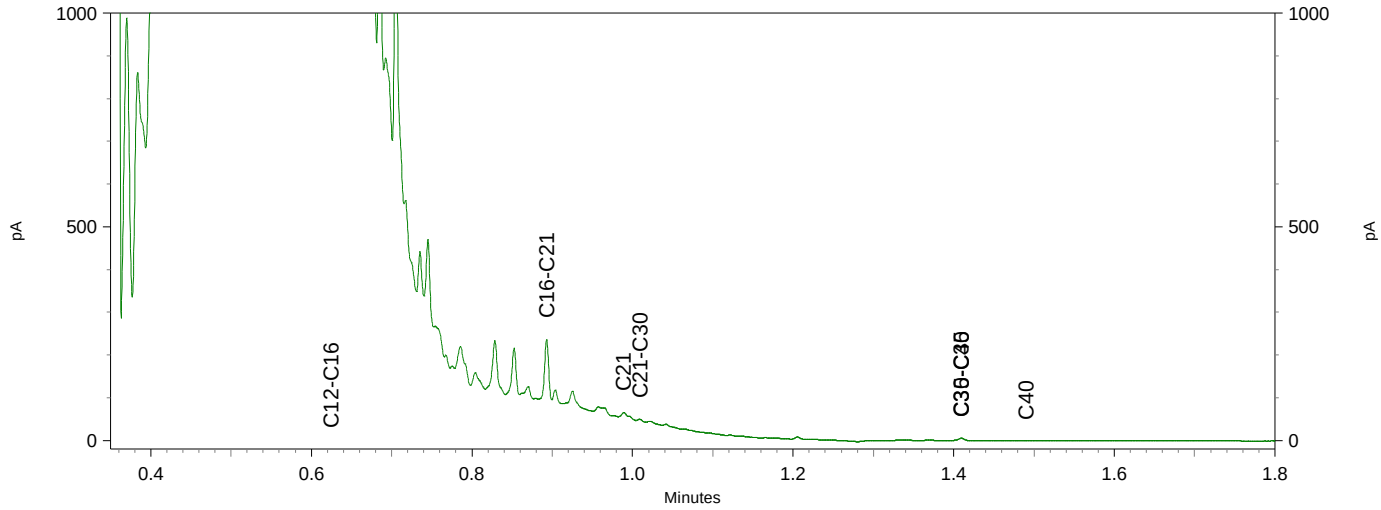


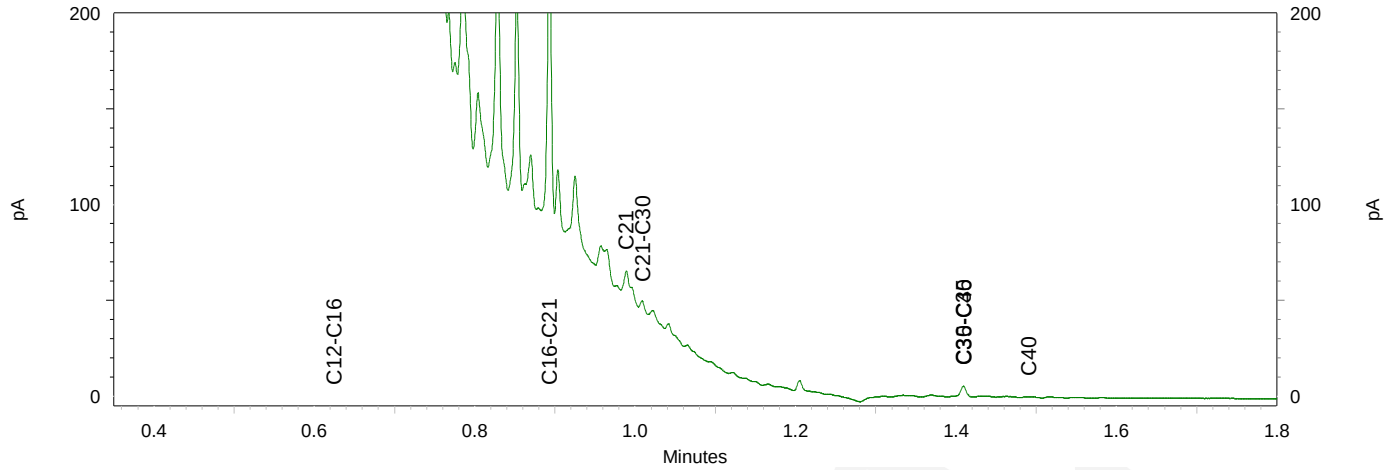


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712415
Certificate no.: 2020185248
Sample description.: 57z
V

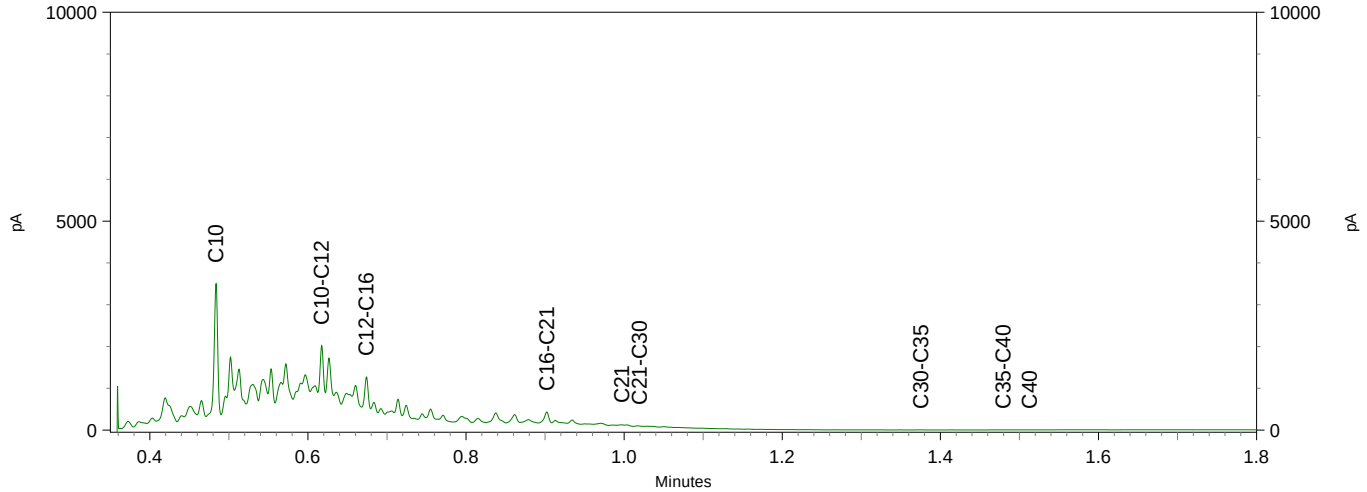


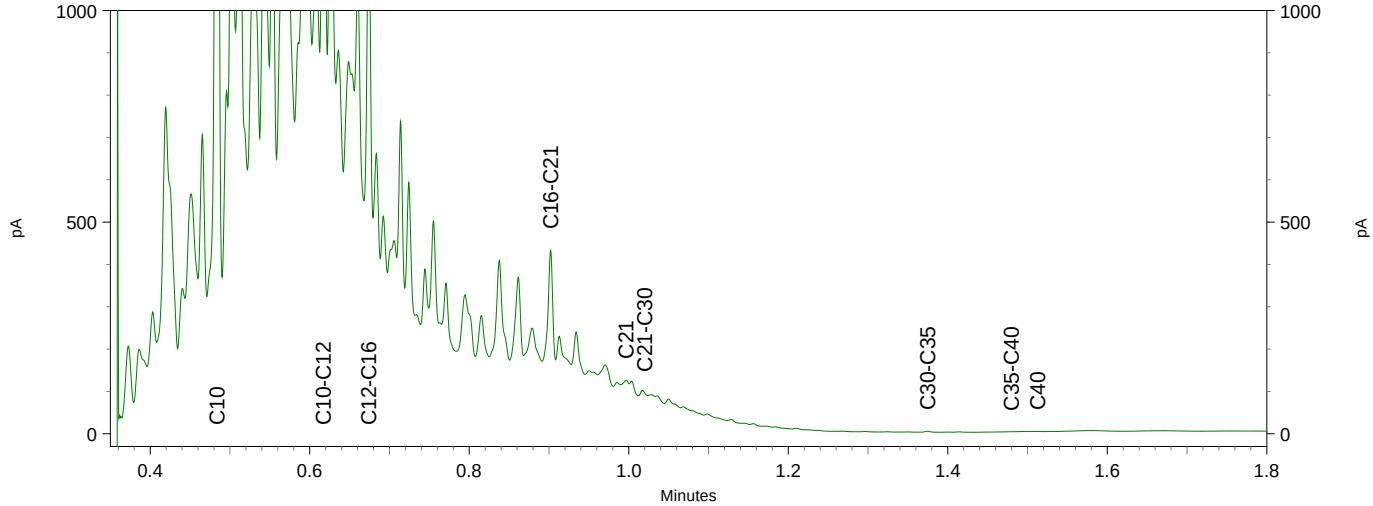


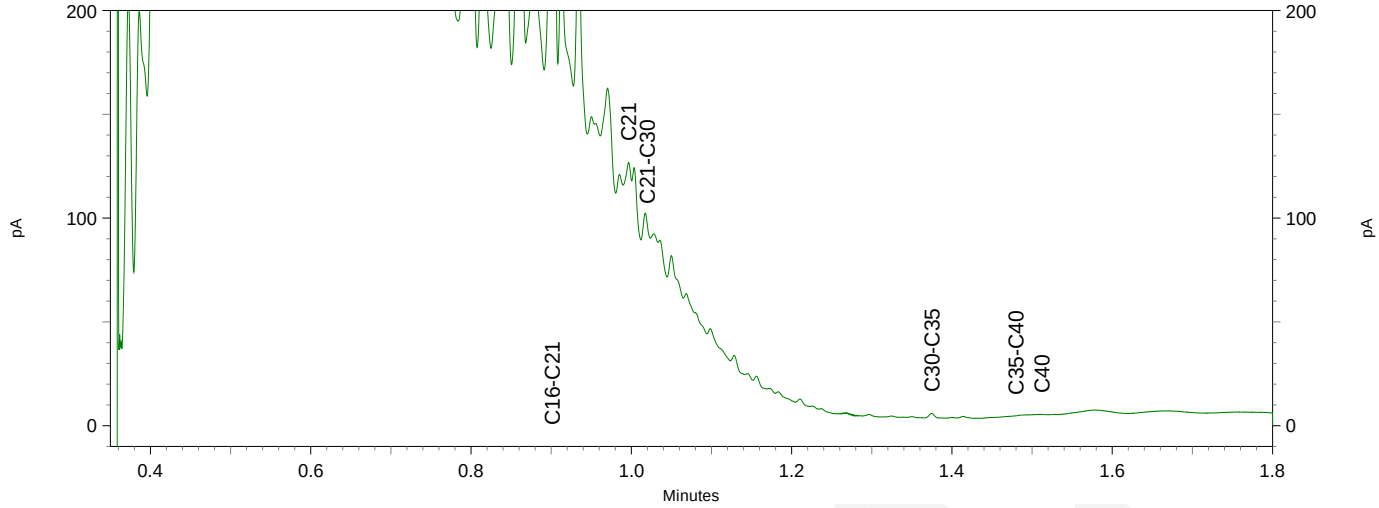


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712416
Certificate no.: 2020185248
Sample description.: 107z
V

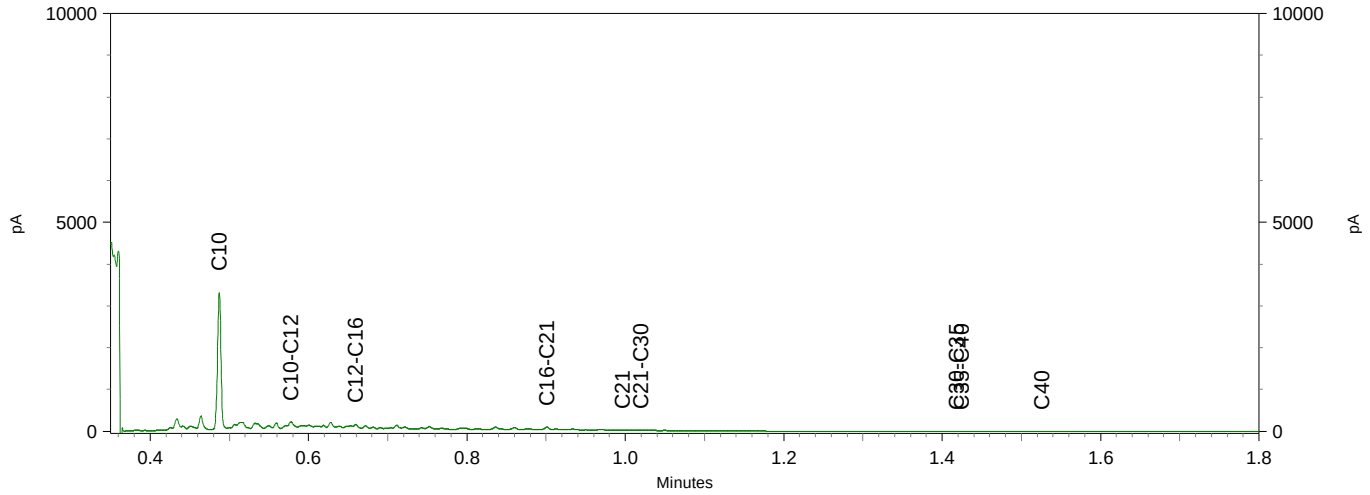


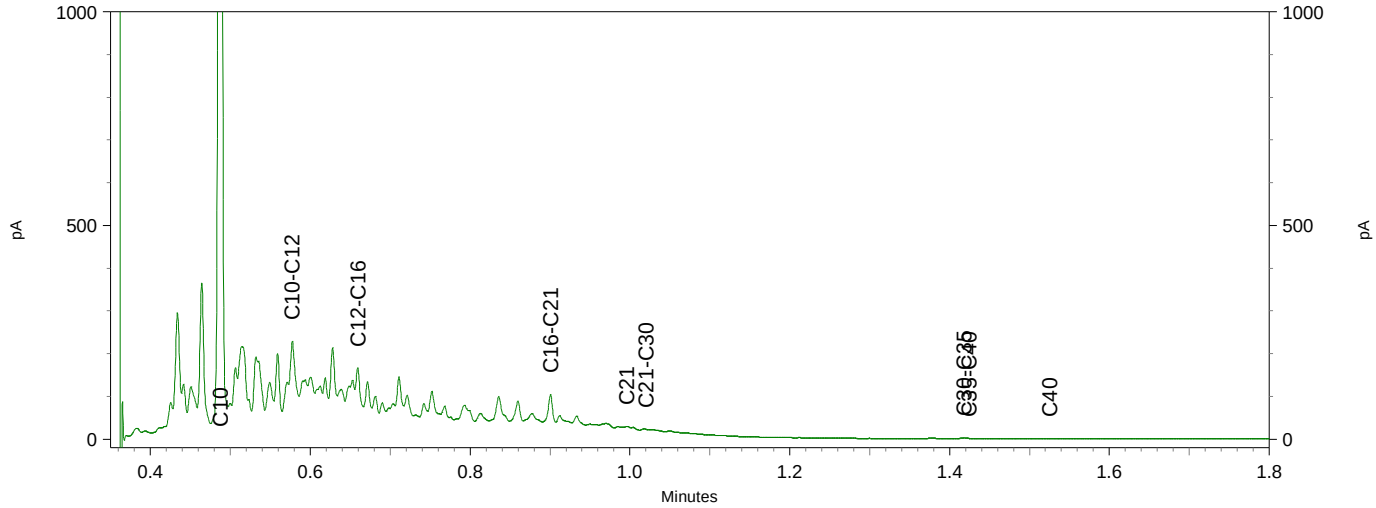


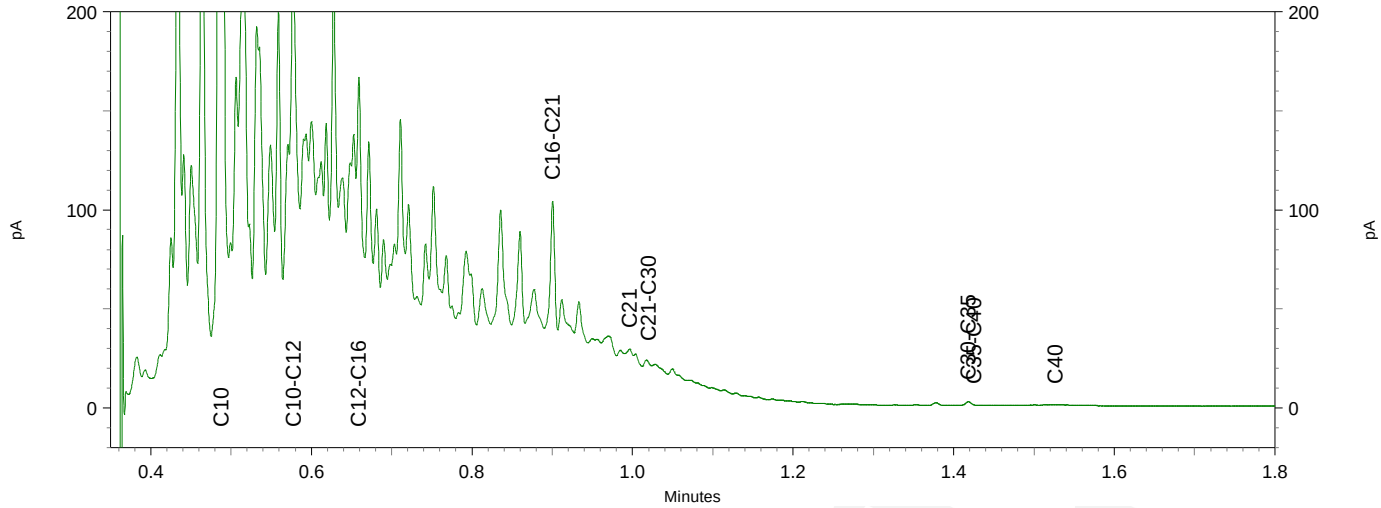


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712417
Certificate no.:2020185248
Sample description.: 108z
V

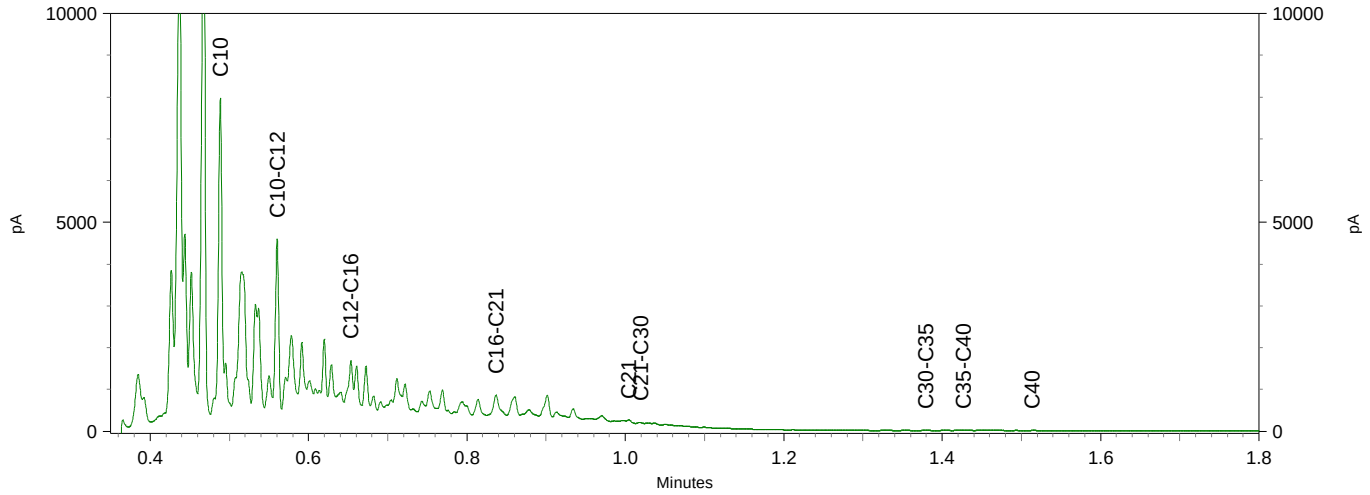


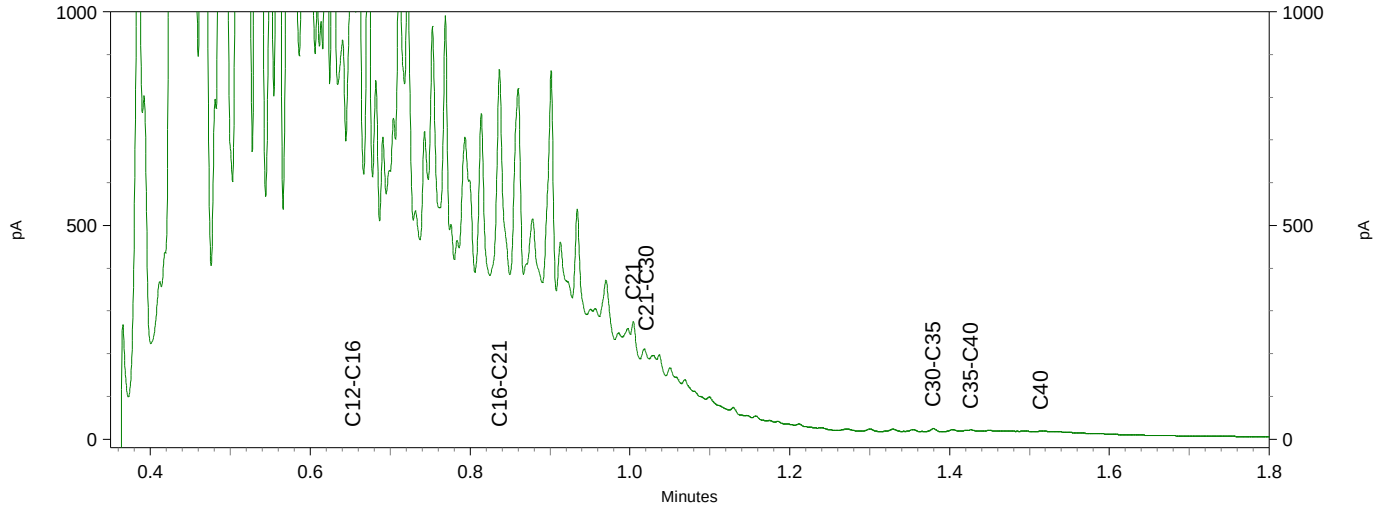


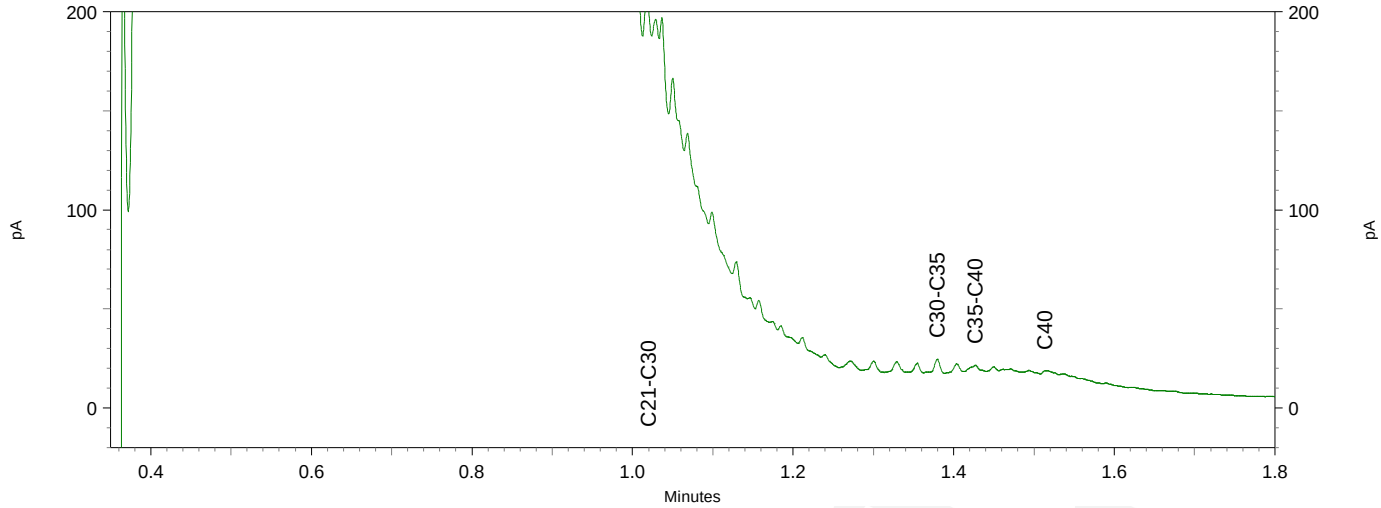


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712418
Certificate no.:2020185248
Sample description.: 110z
V

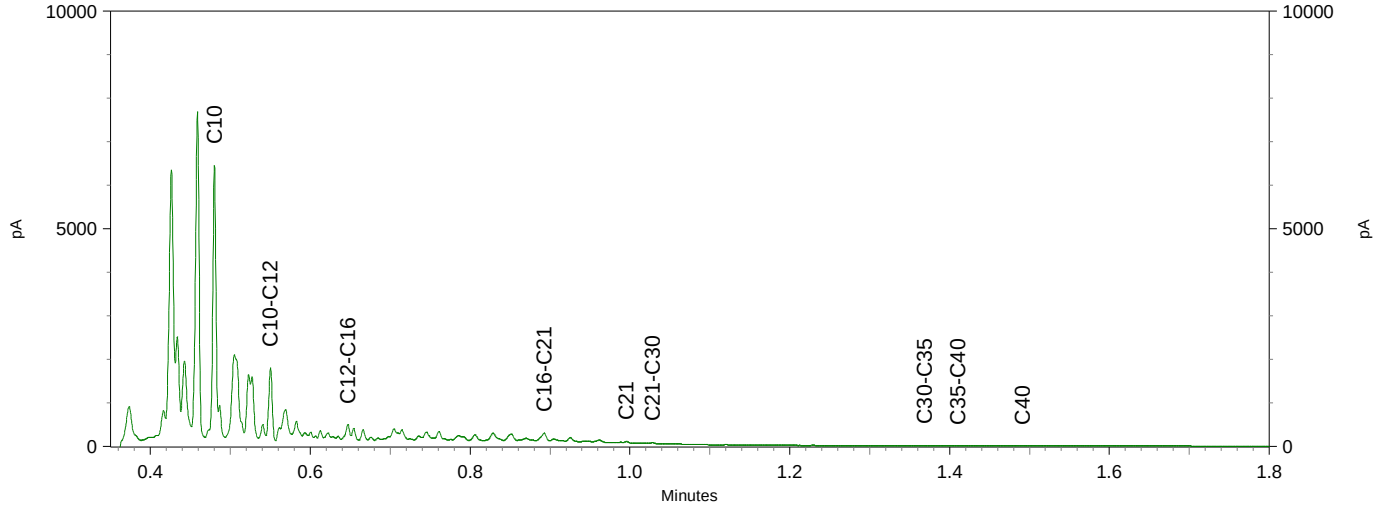


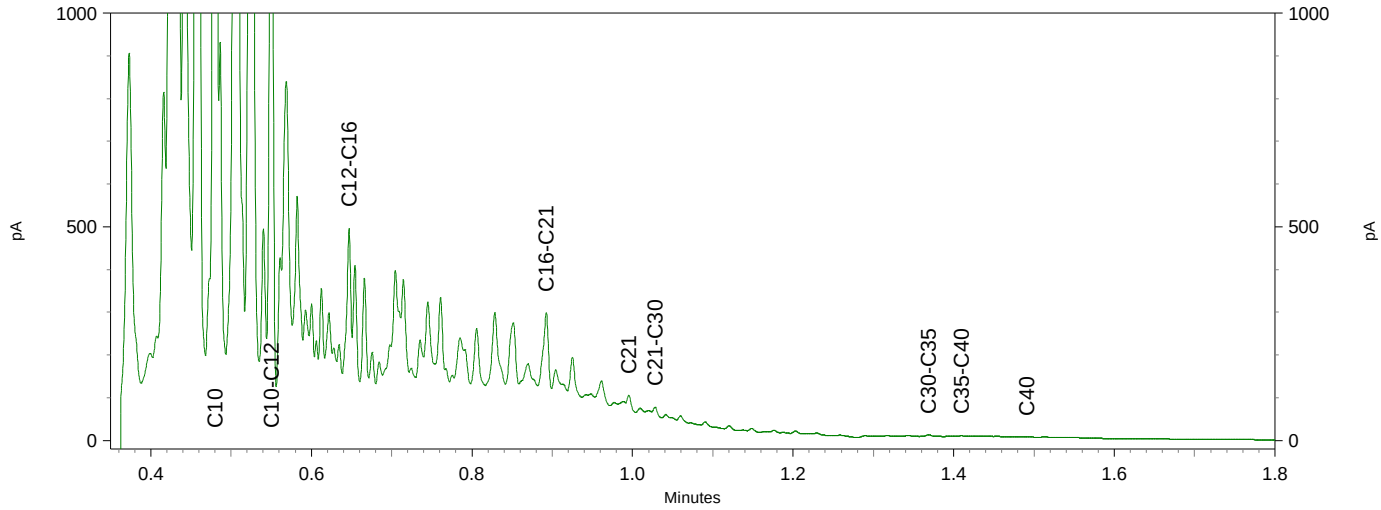


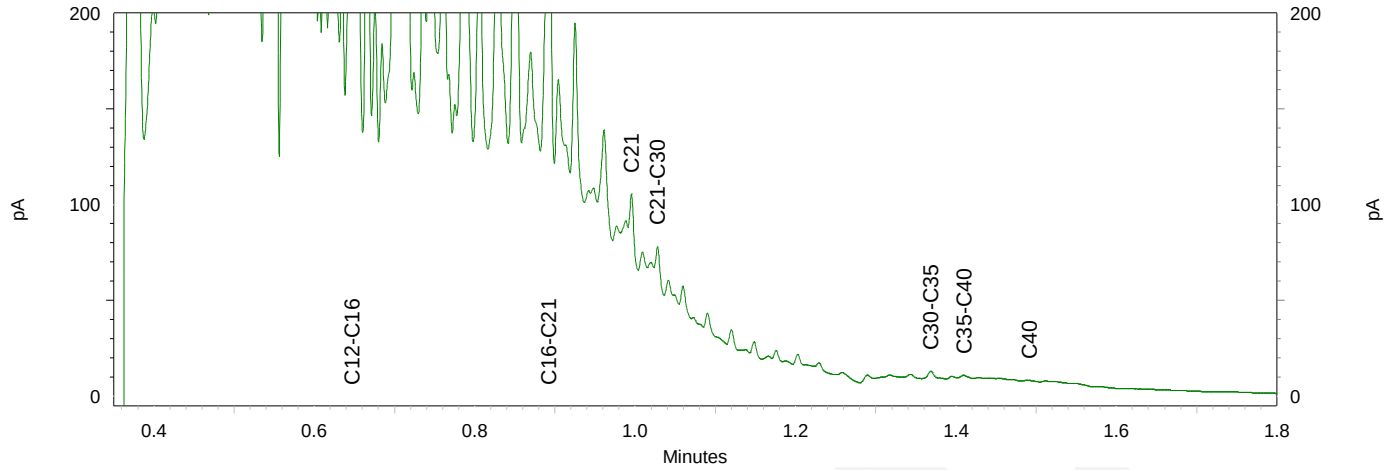


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712419
Certificate no.: 2020185248
Sample description.: 112z
V

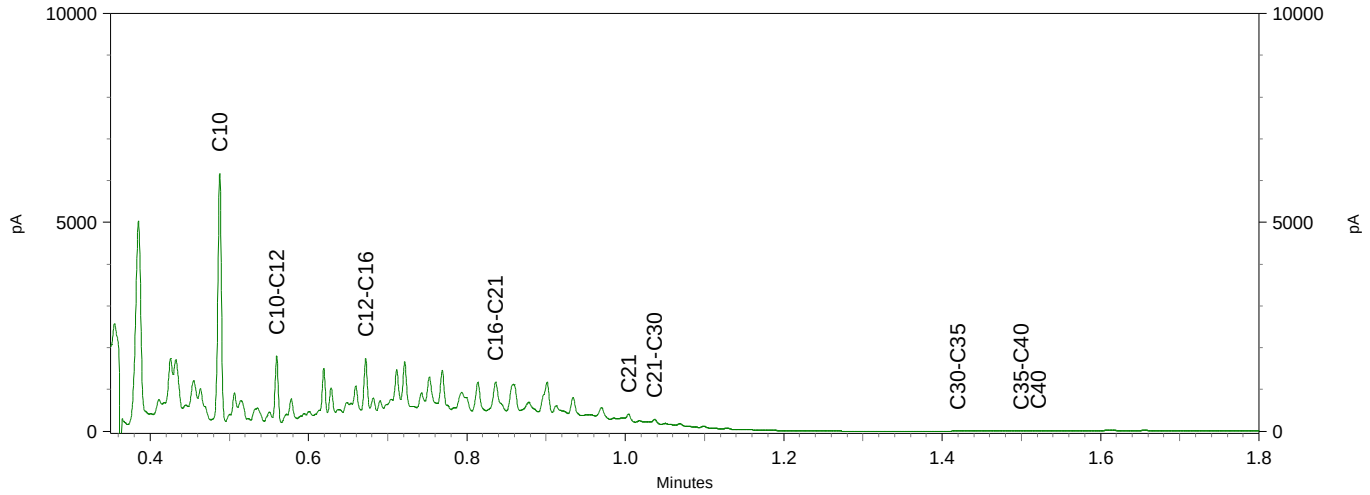


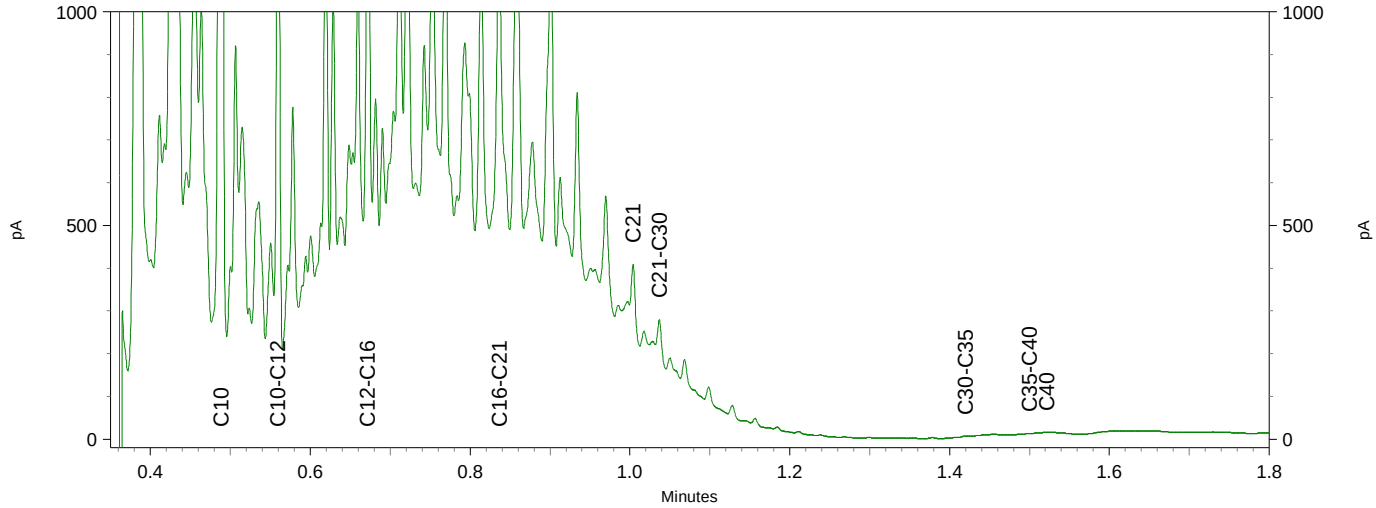


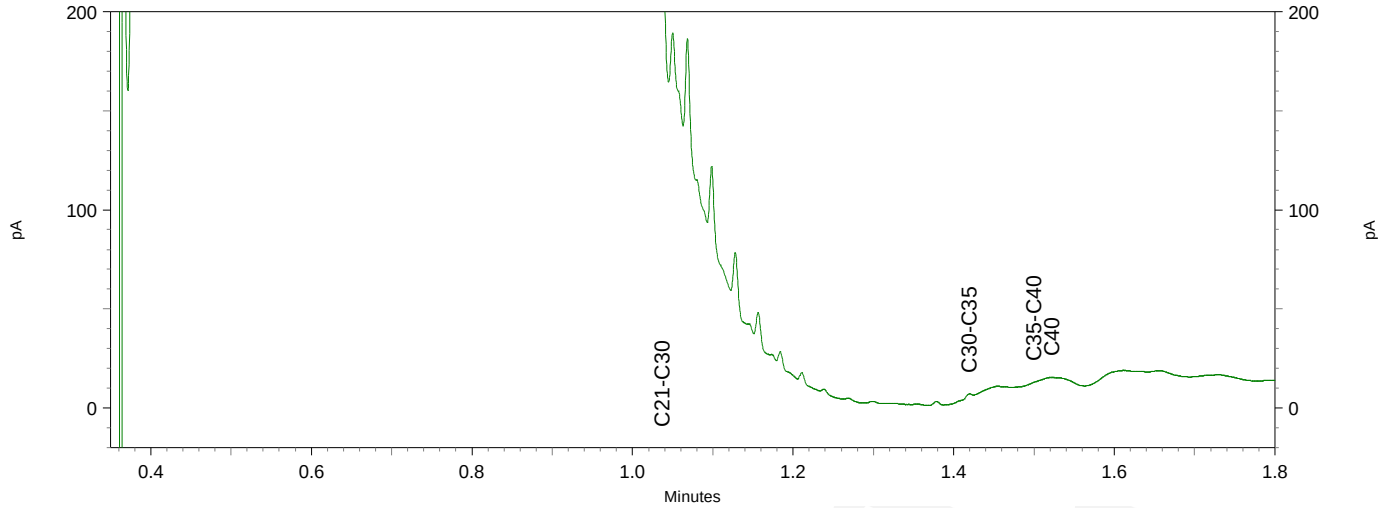


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712420
Certificate no.:2020185248
Sample description.: 118z
V

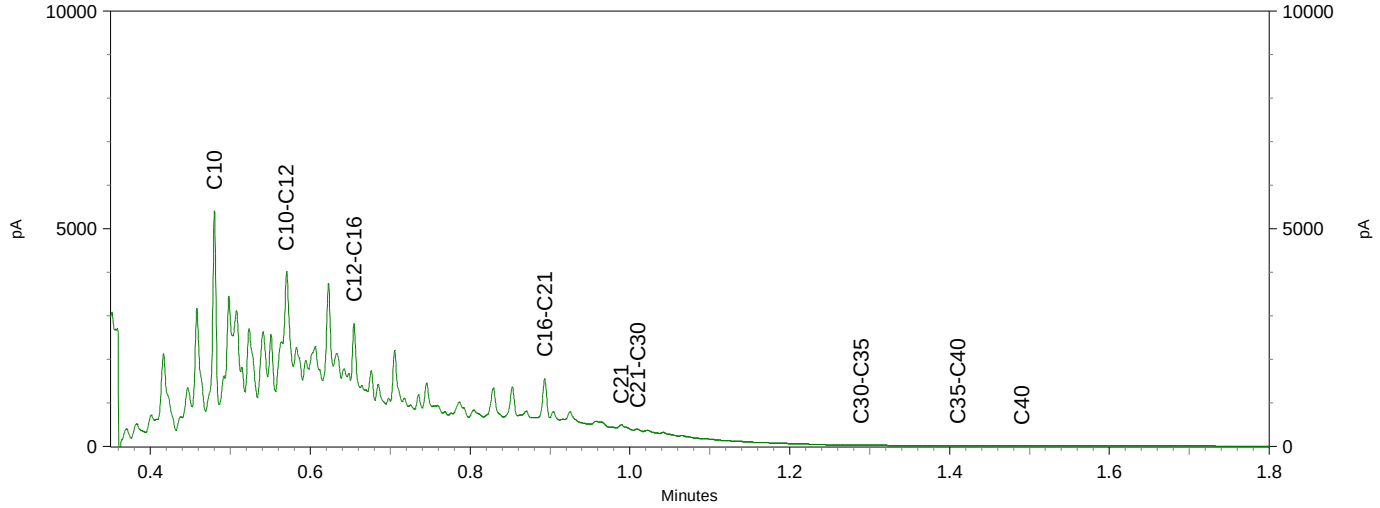


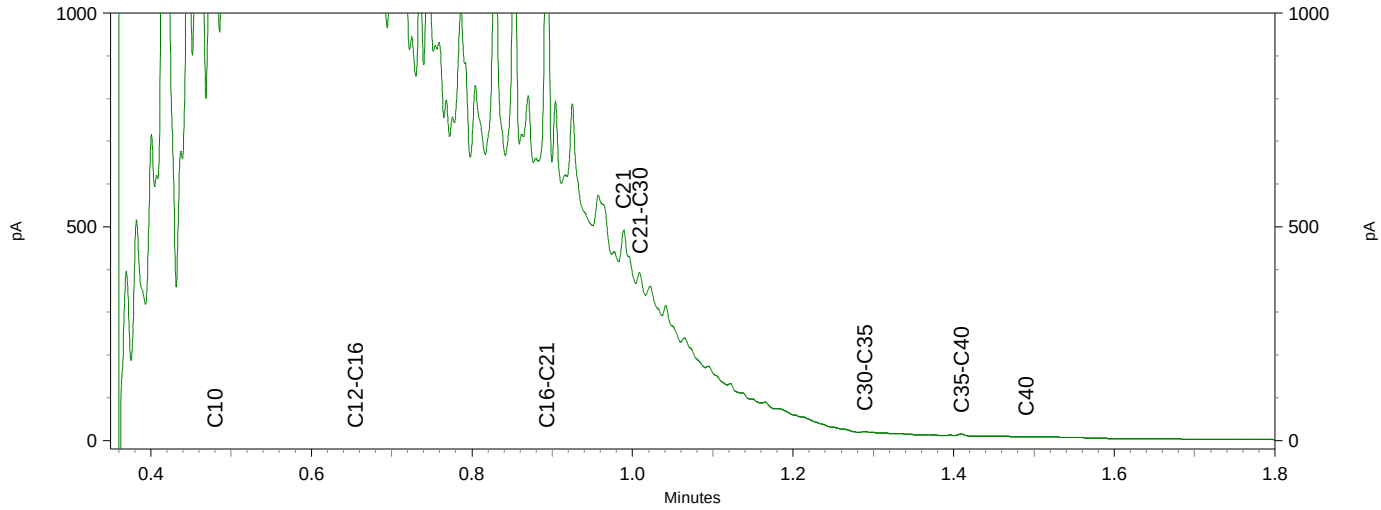


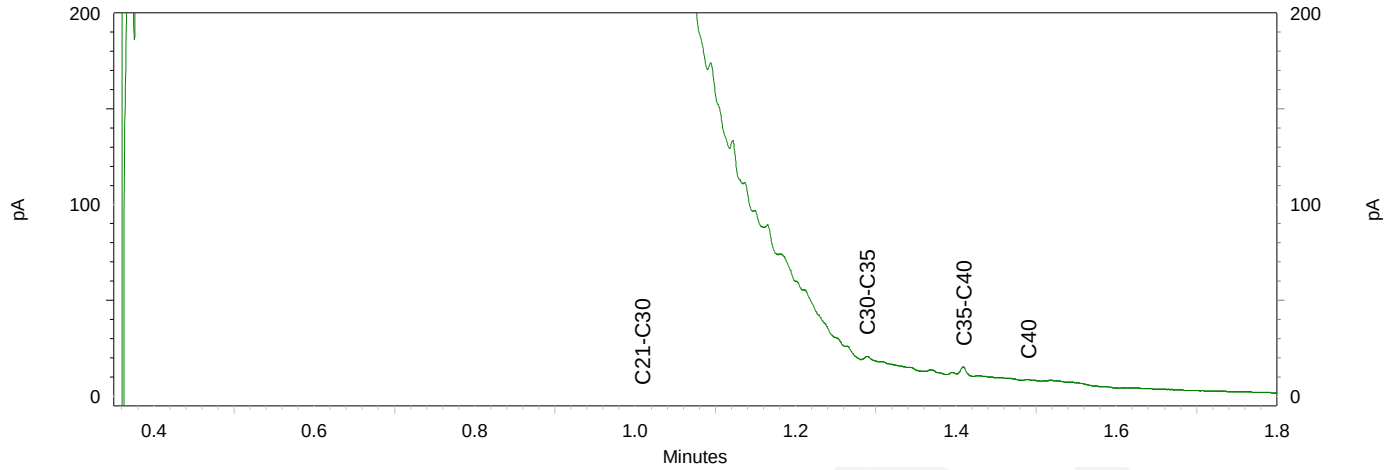


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712421
Certificate no.: 2020185248
Sample description.: 96z
V

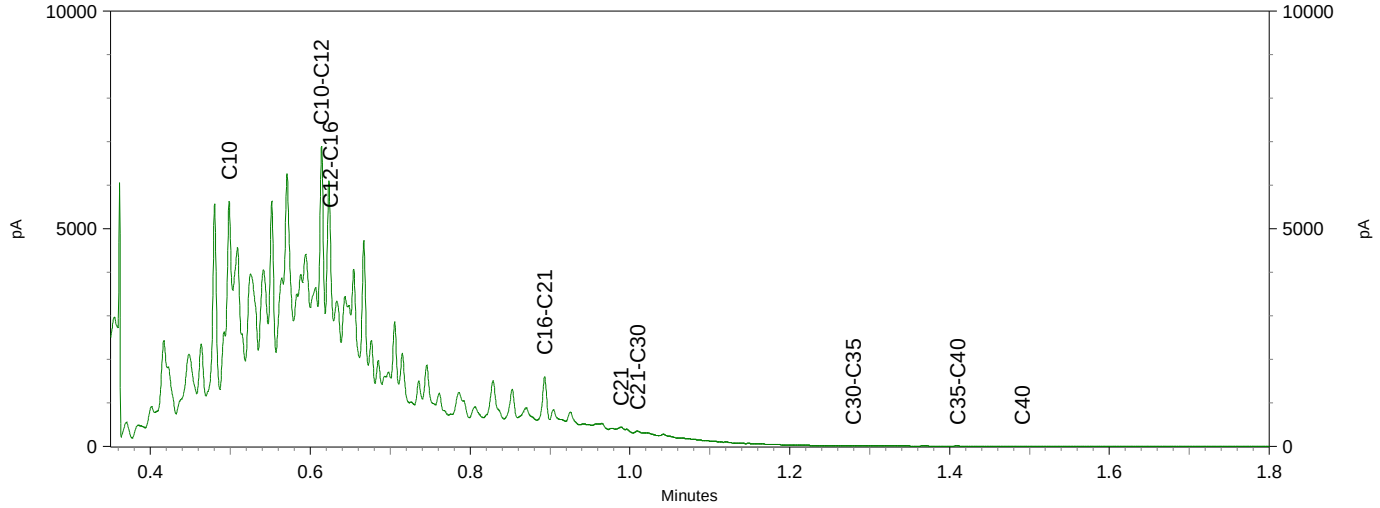


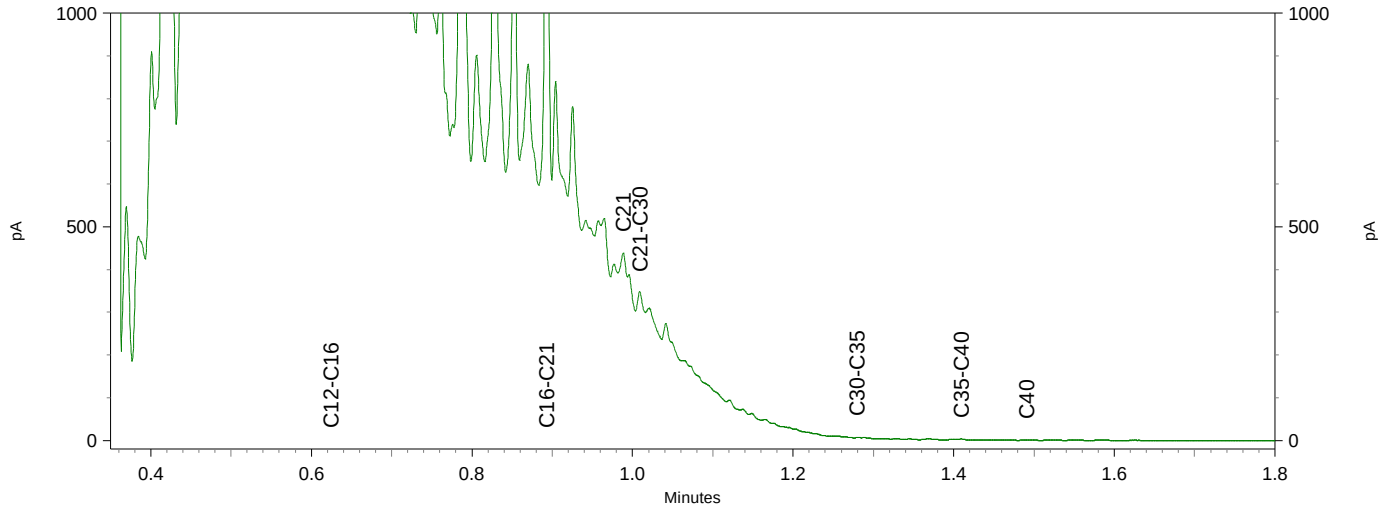


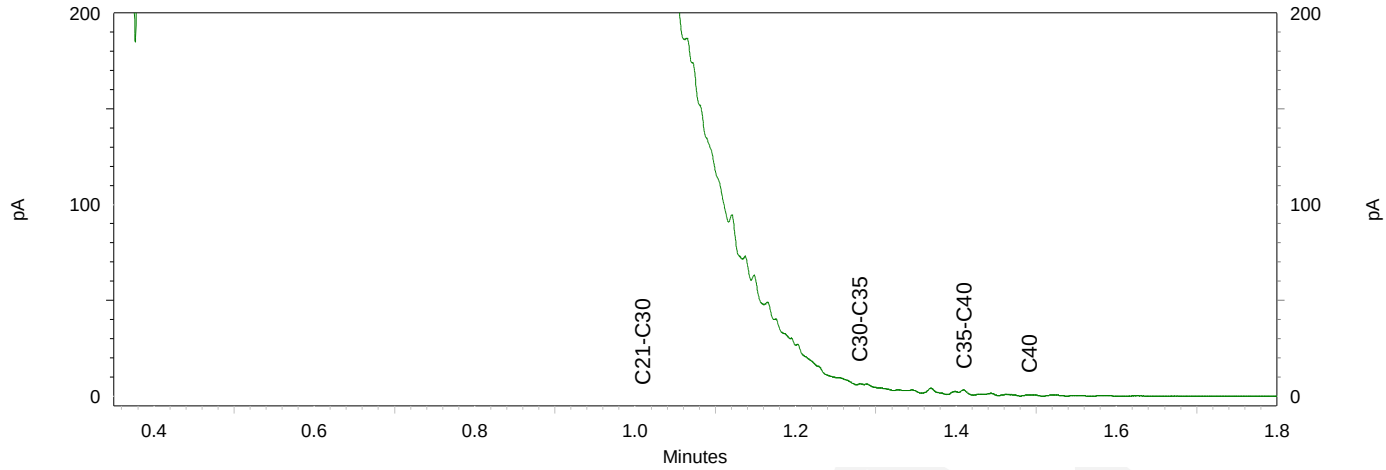


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712422
Certificate no.: 2020185248
Sample description.: 83z
V

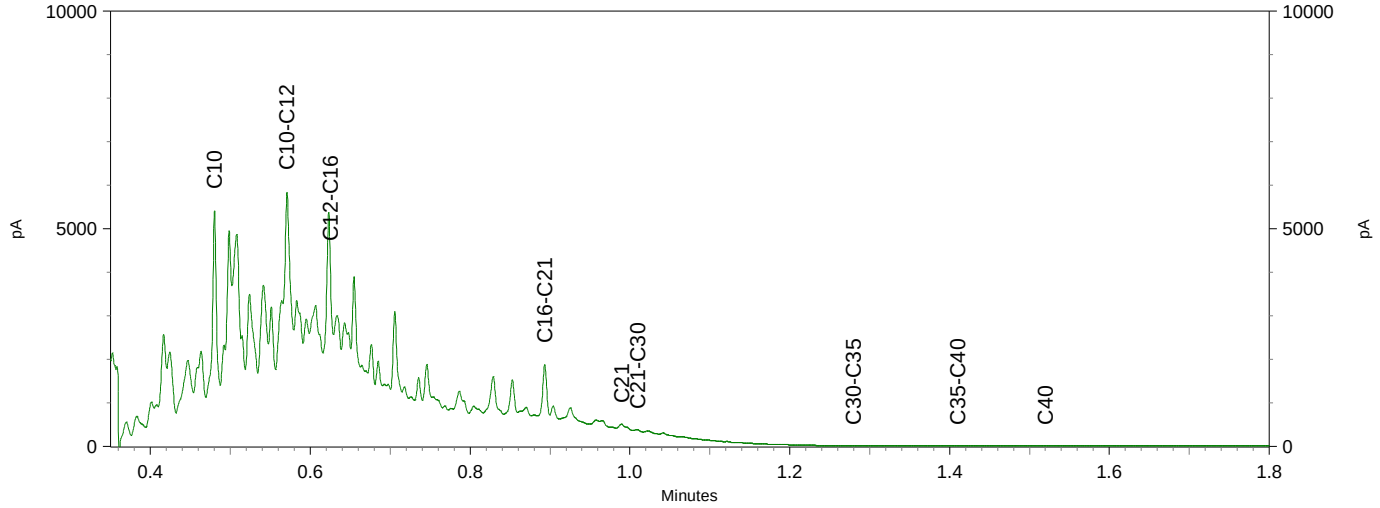


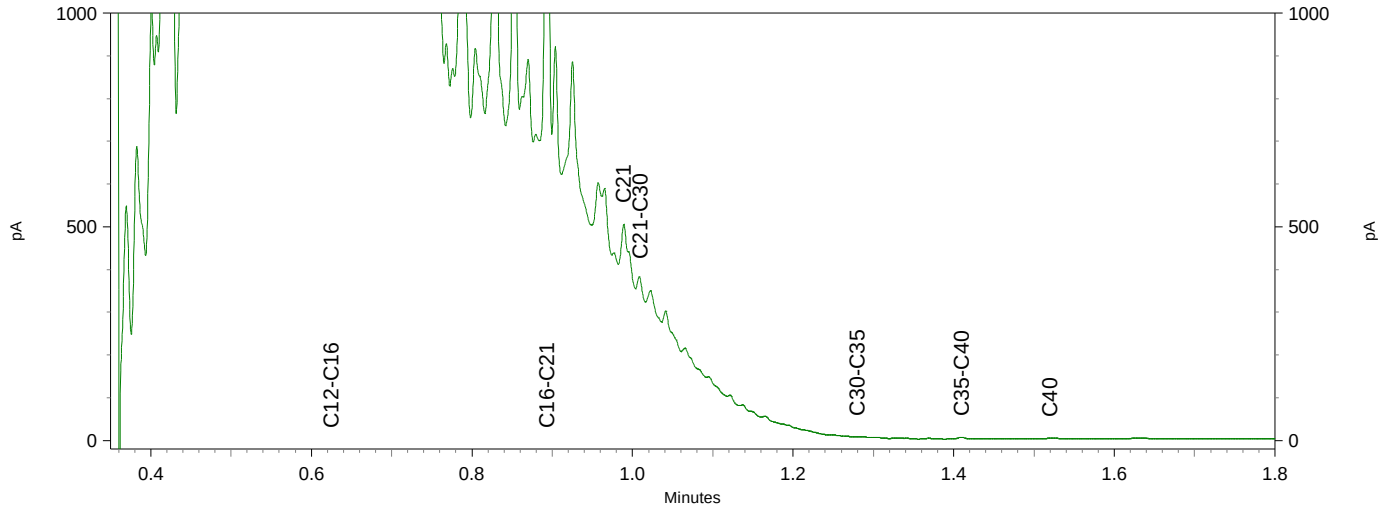


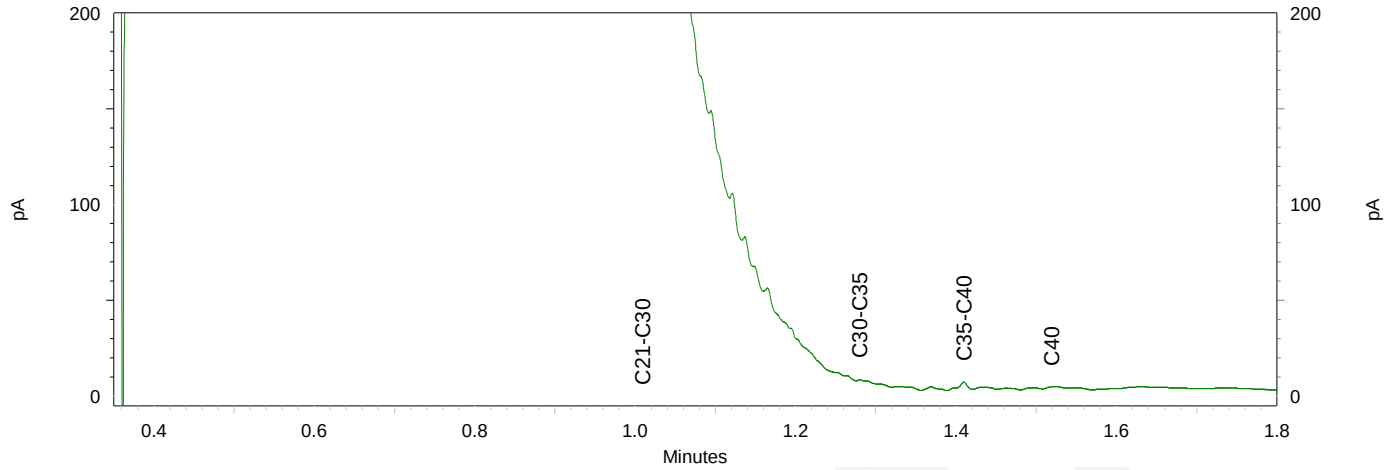


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712423
Certificate no.: 2020185248
Sample description.: 84z
V

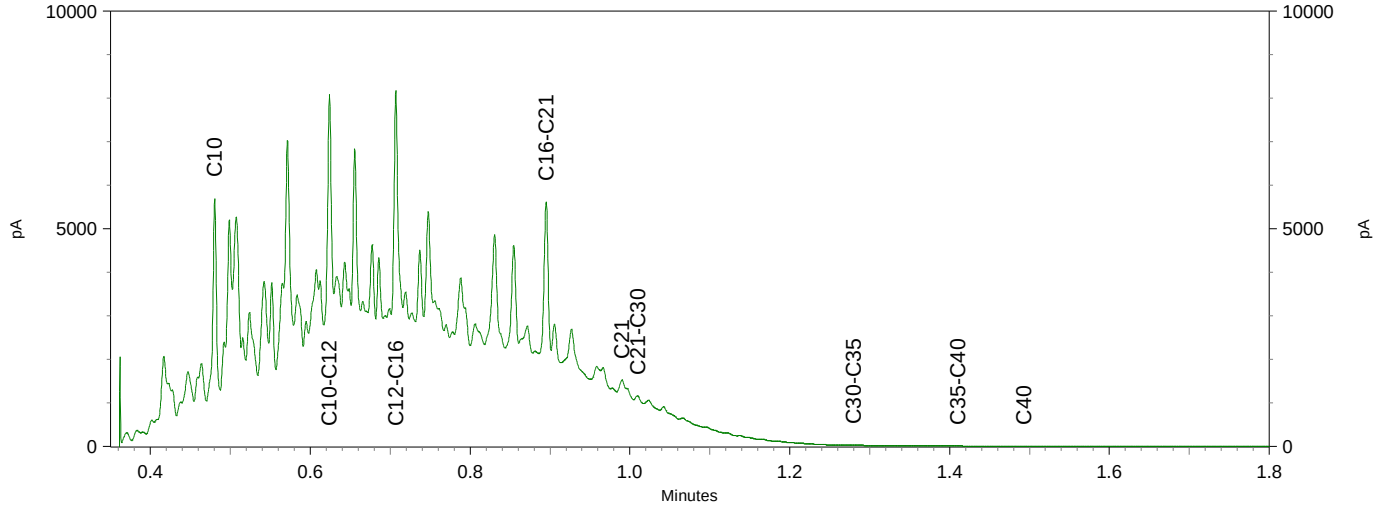


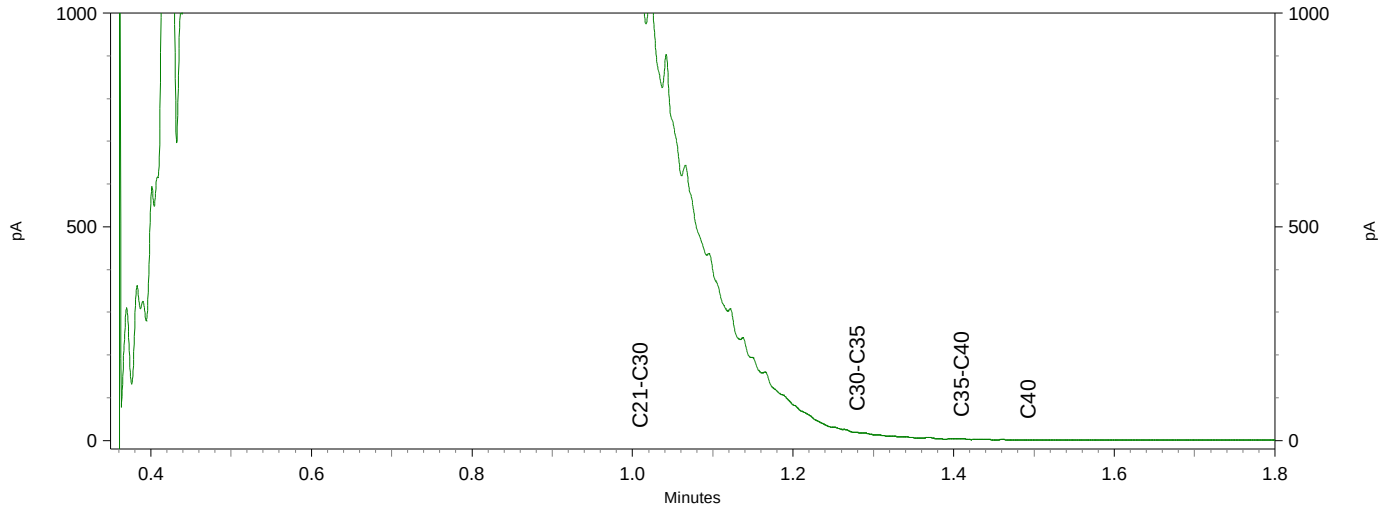


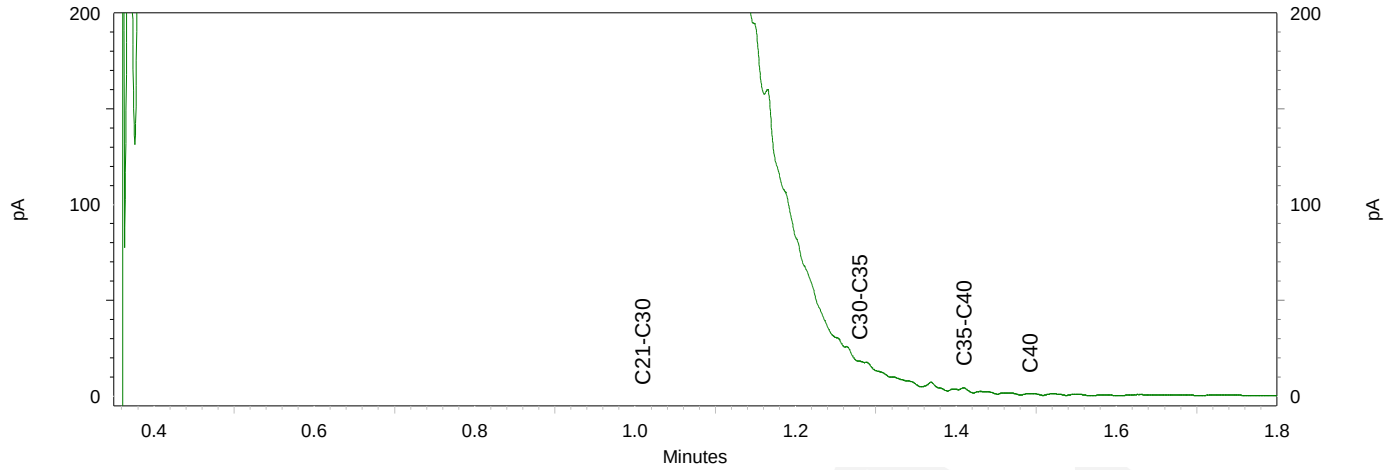


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712424
Certificate no.: 2020185248
Sample description.: 85z
V

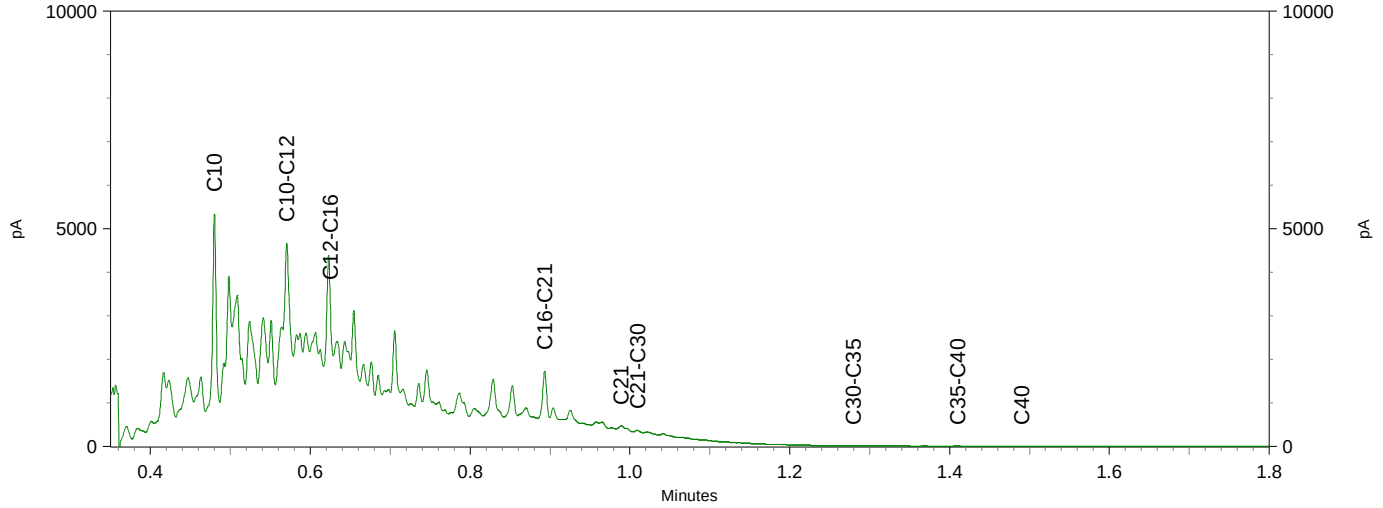


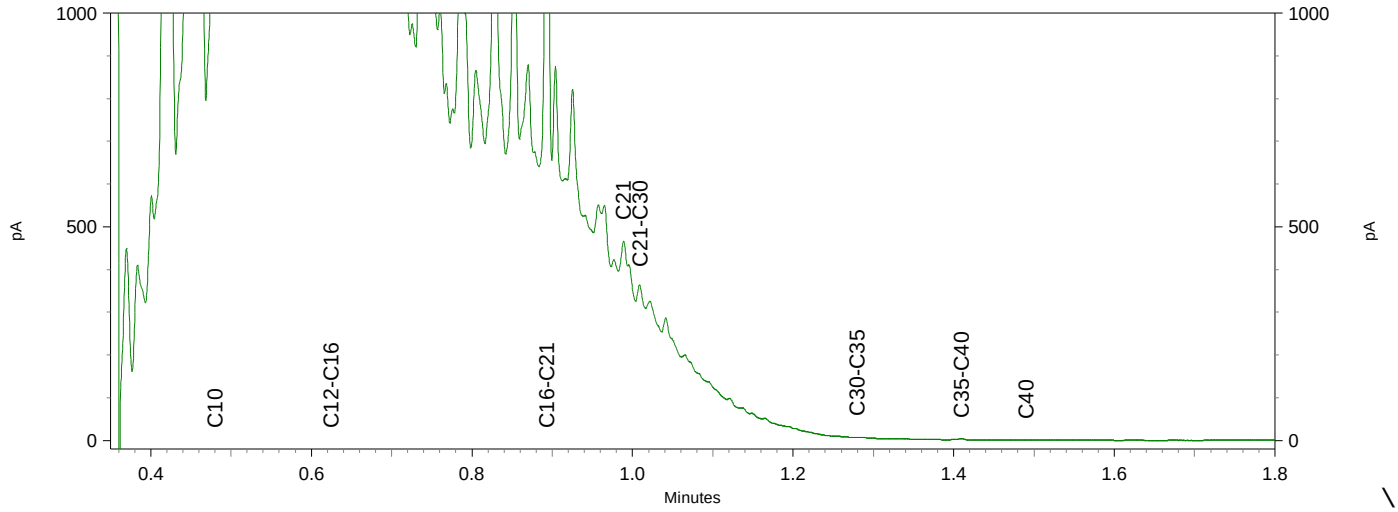


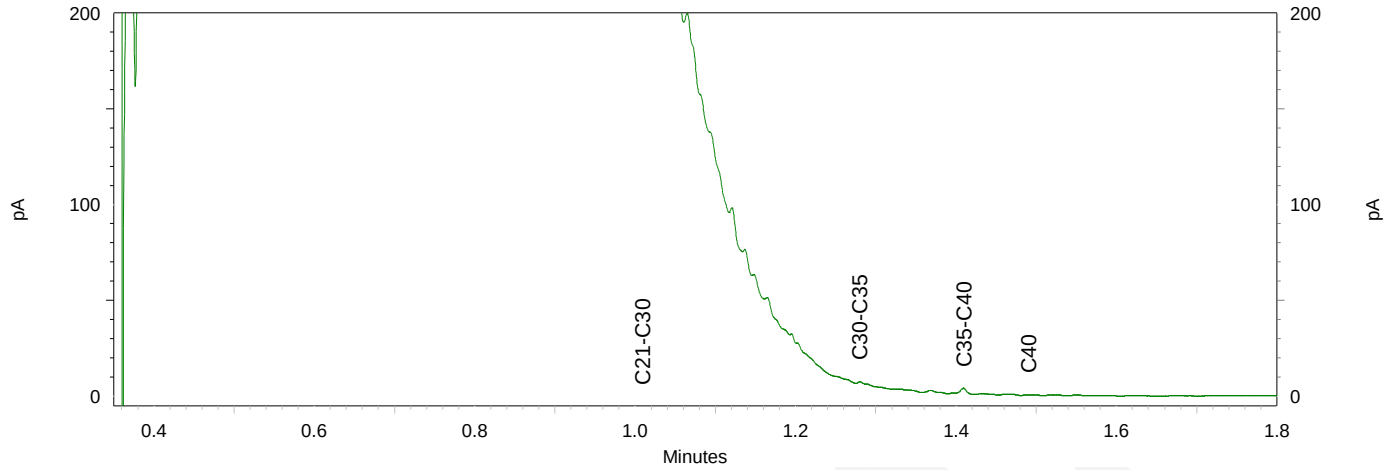


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712425
Certificate no.: 2020185248
Sample description.: 87z
V

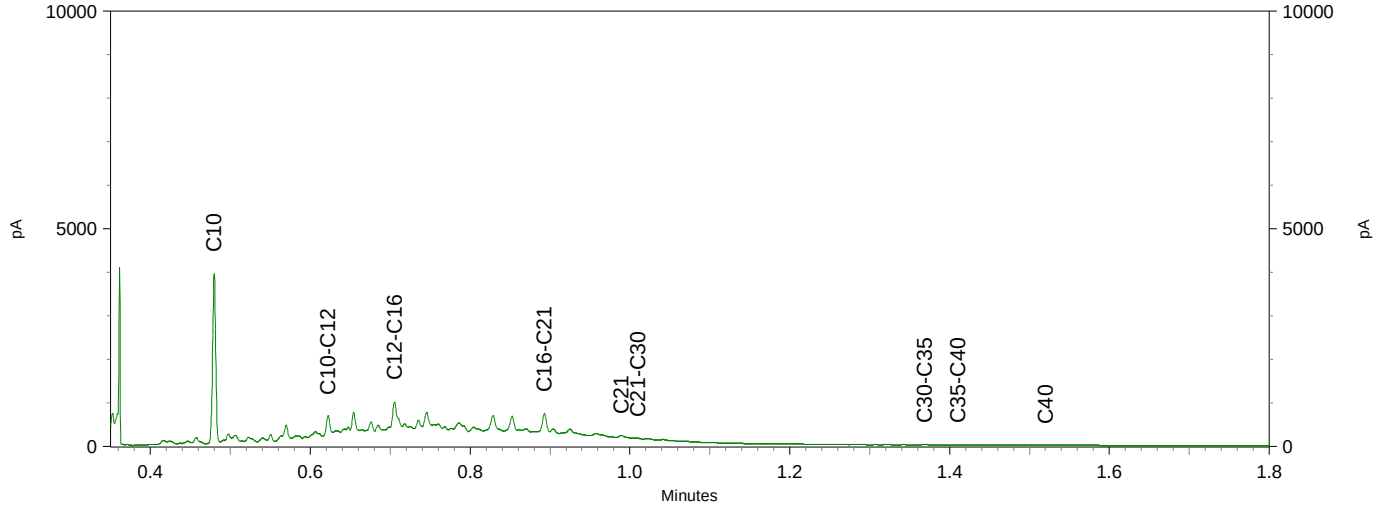


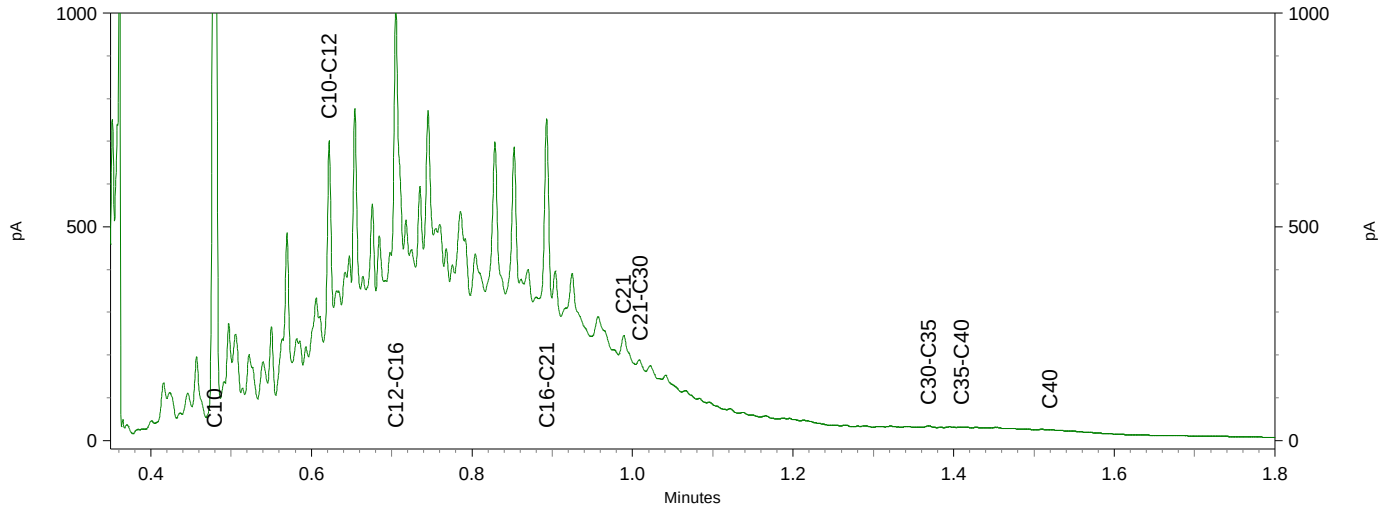


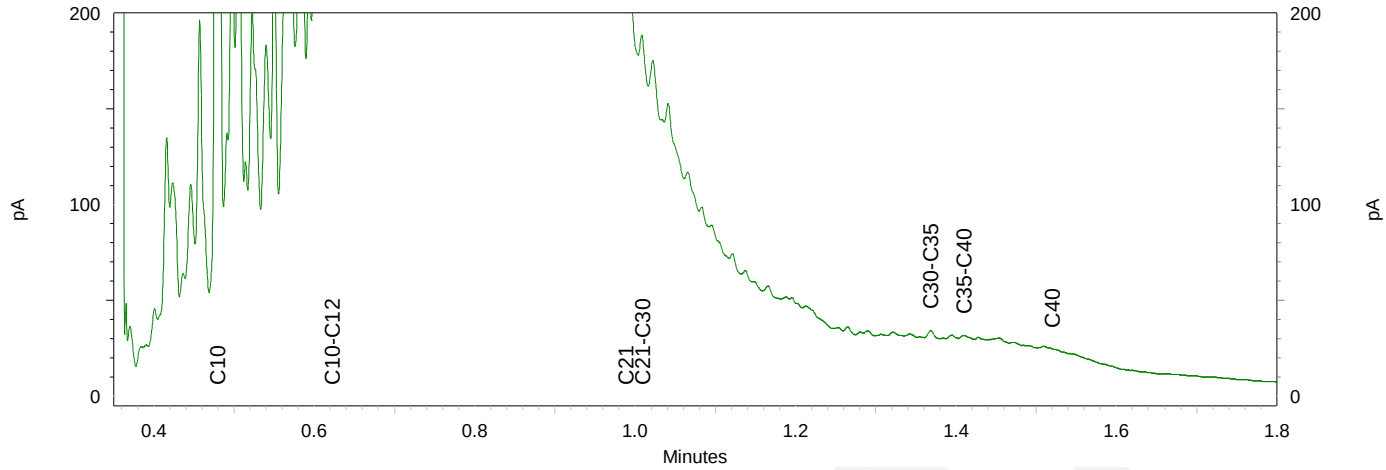


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712426
Certificate no.: 2020185248
Sample description.: 92z
V







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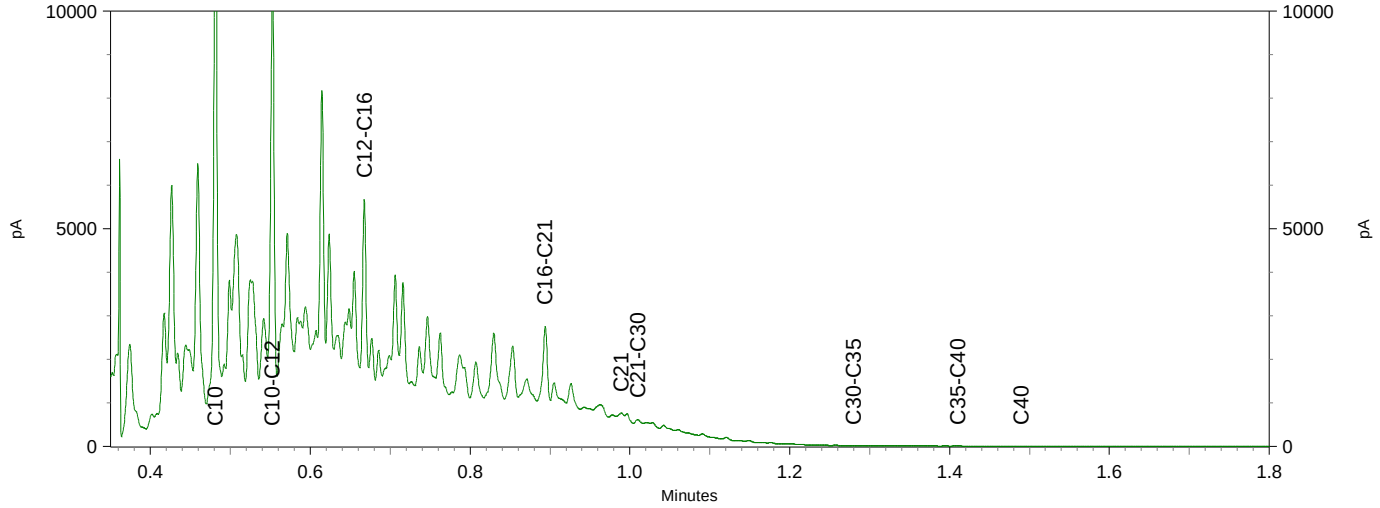
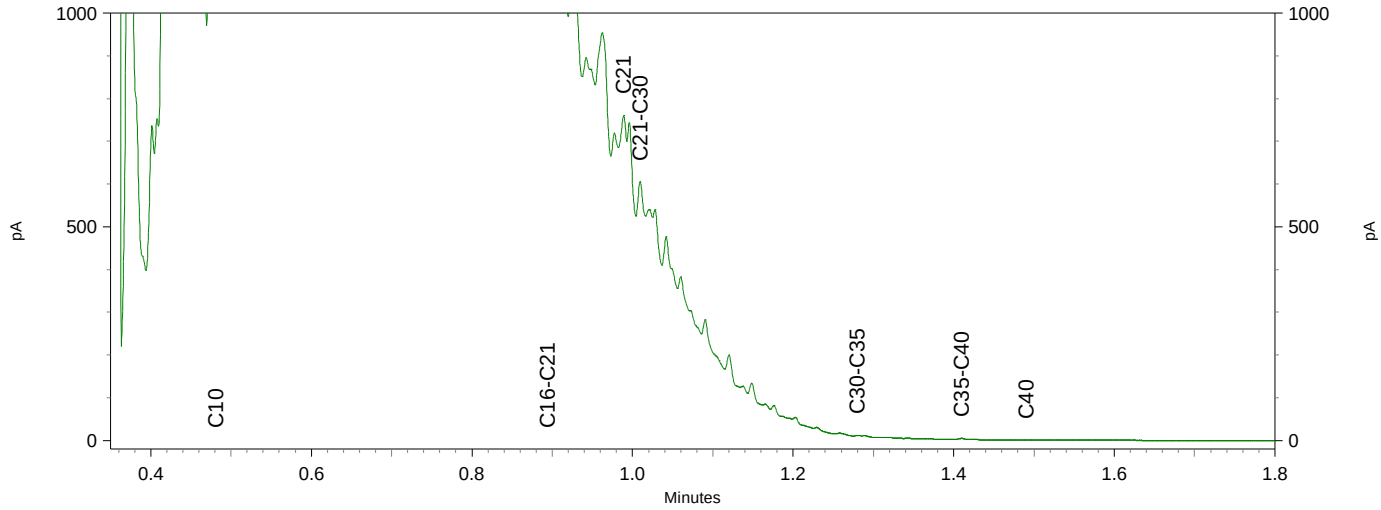
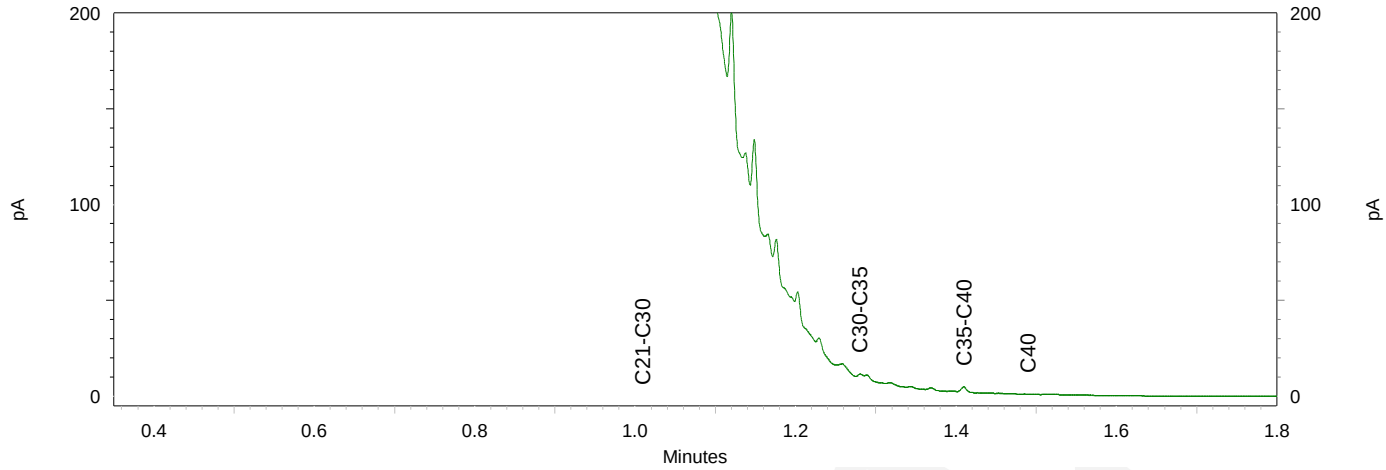
Chromatogram TPH/ Mineral Oil

Sample ID.: 11712427
Certificate no.: 2020185248
Sample description.: 95z
V

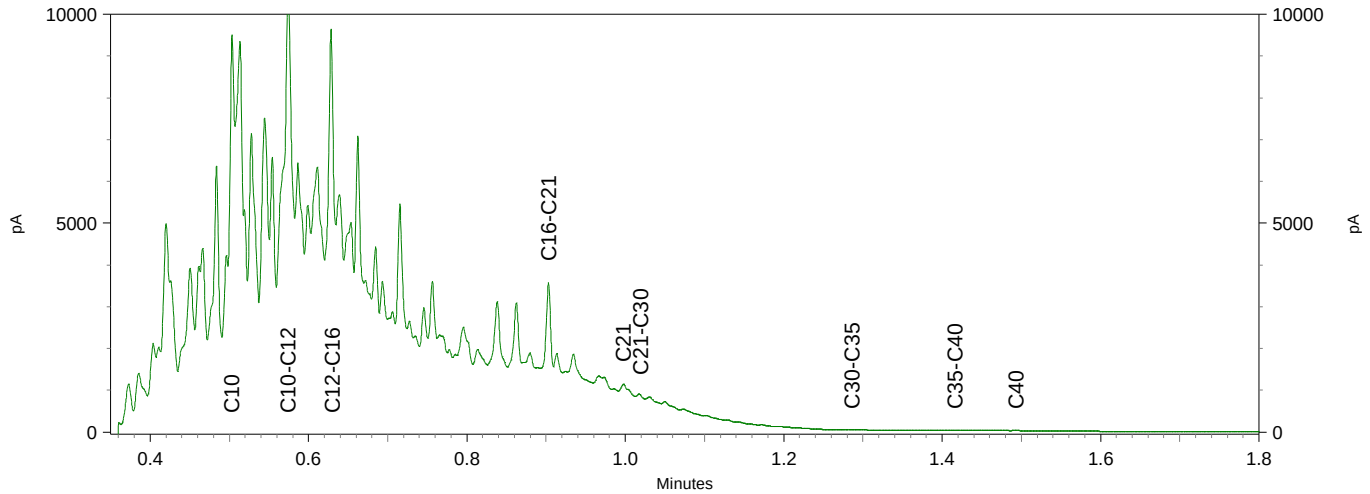


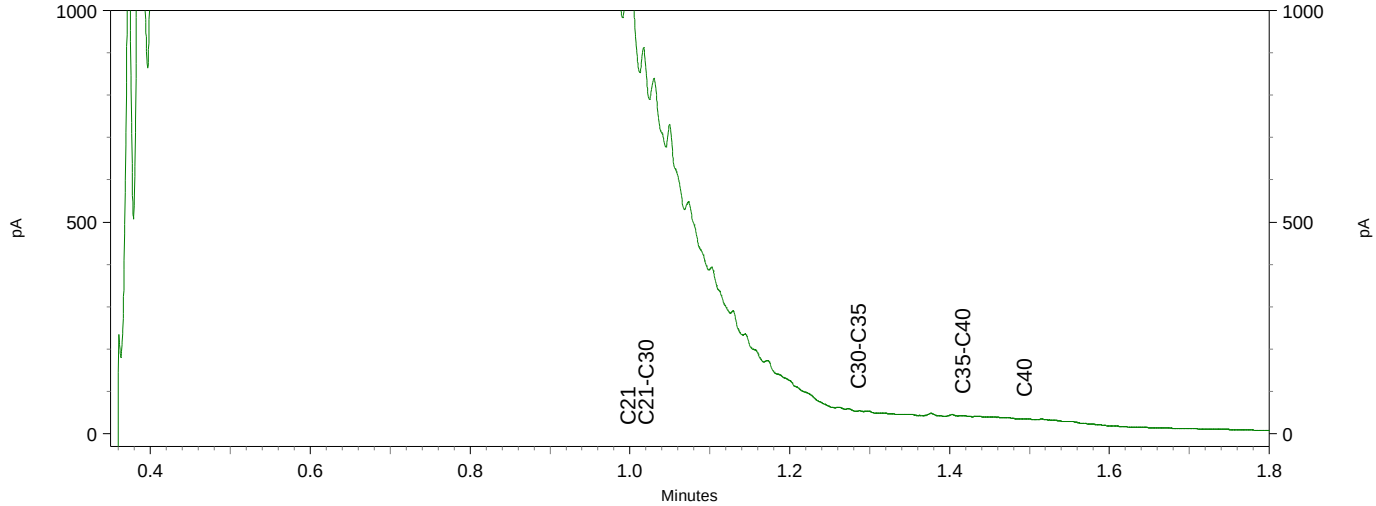


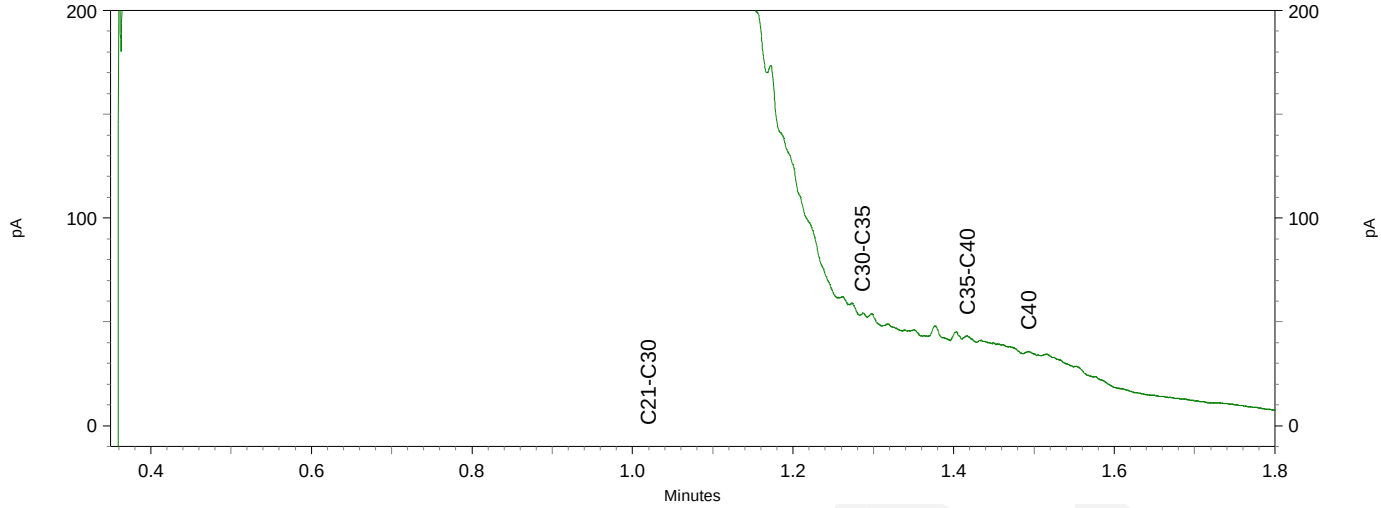


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712428
Certificate no.: 2020185248
Sample description.: 97z
V

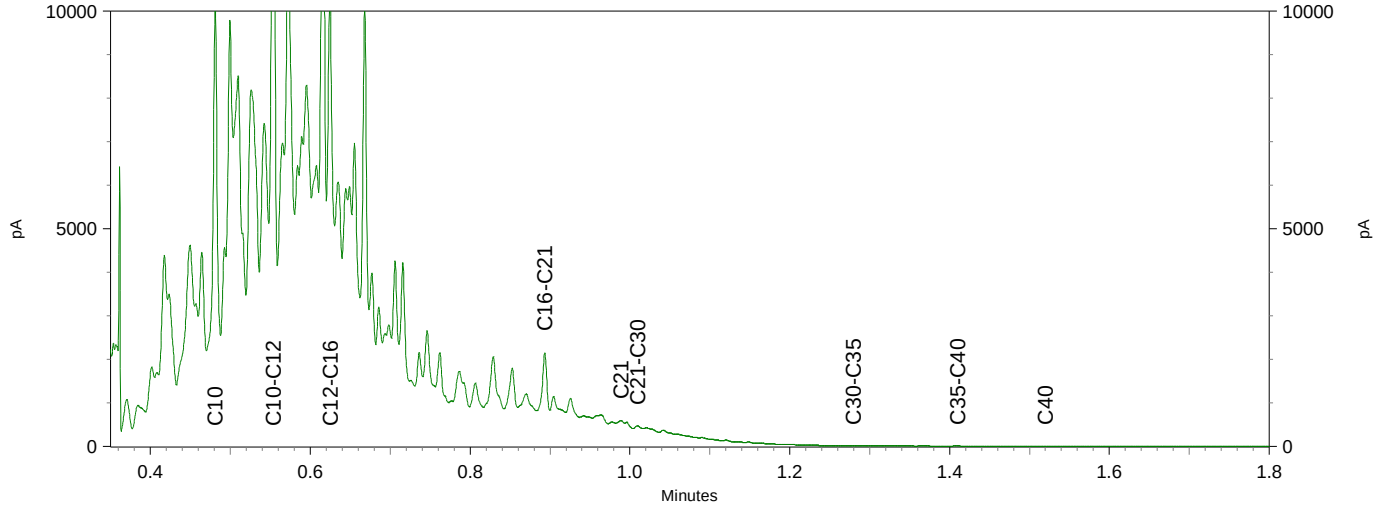


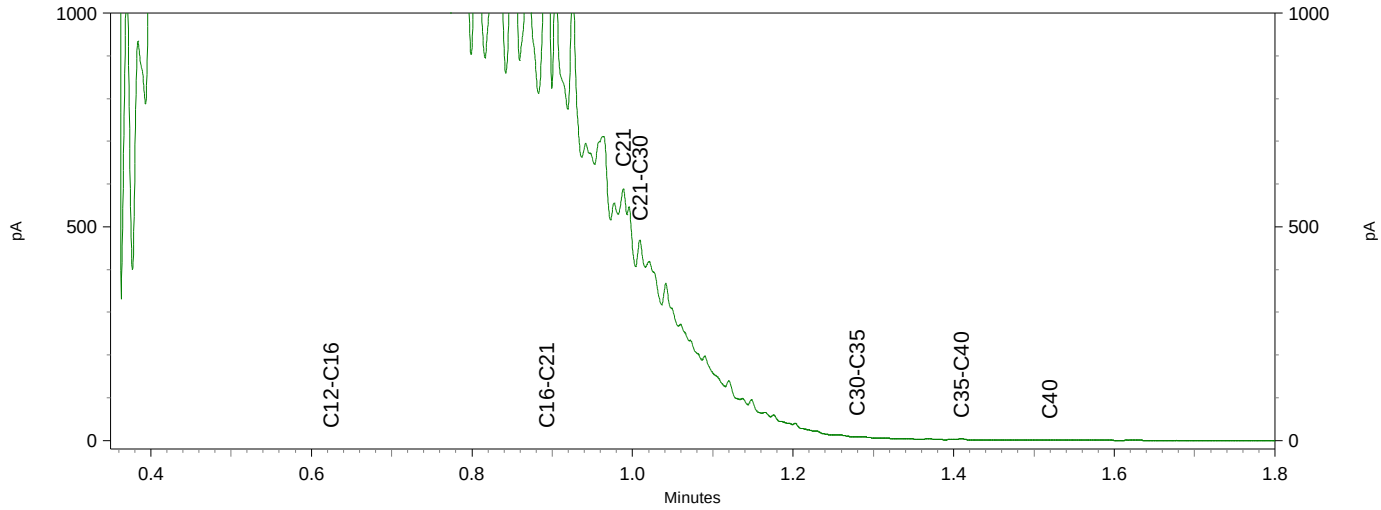


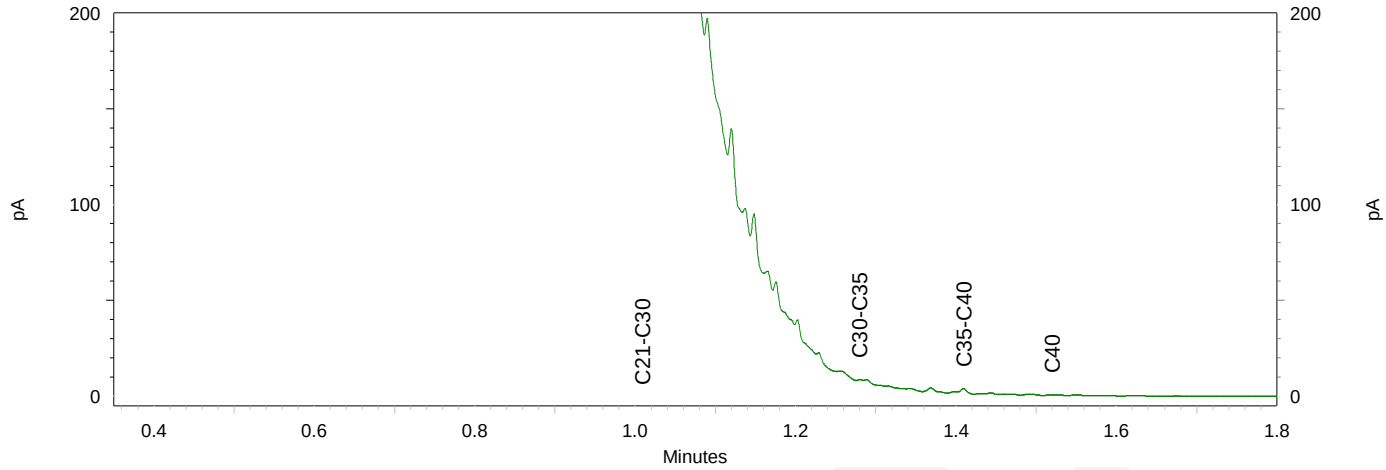


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712429
Certificate no.: 2020185248
Sample description.: 99z
V

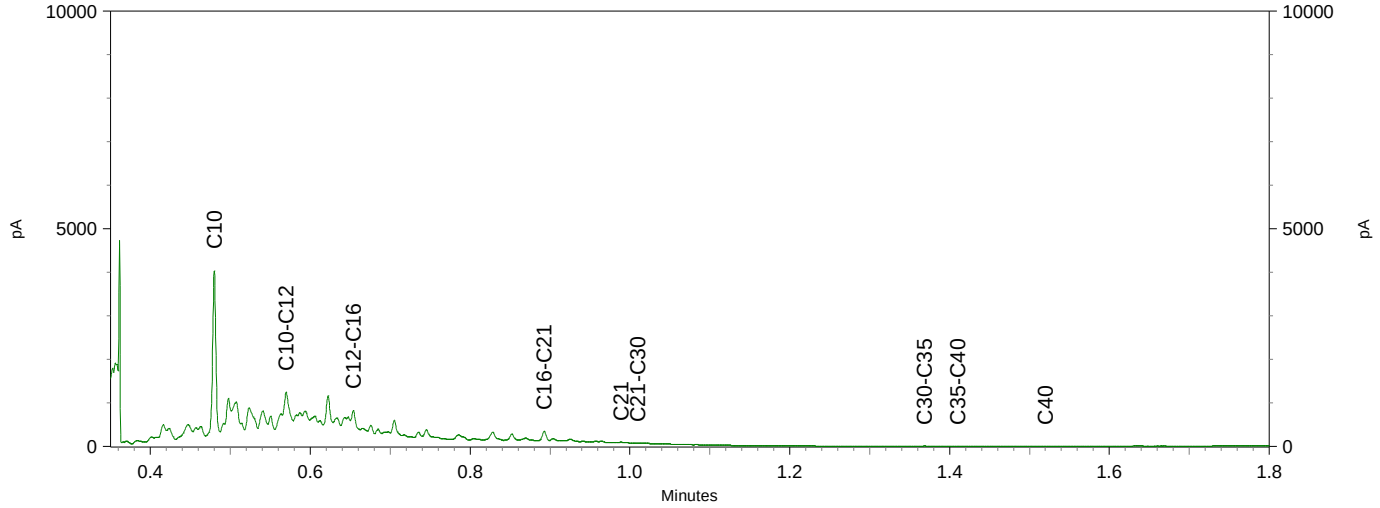


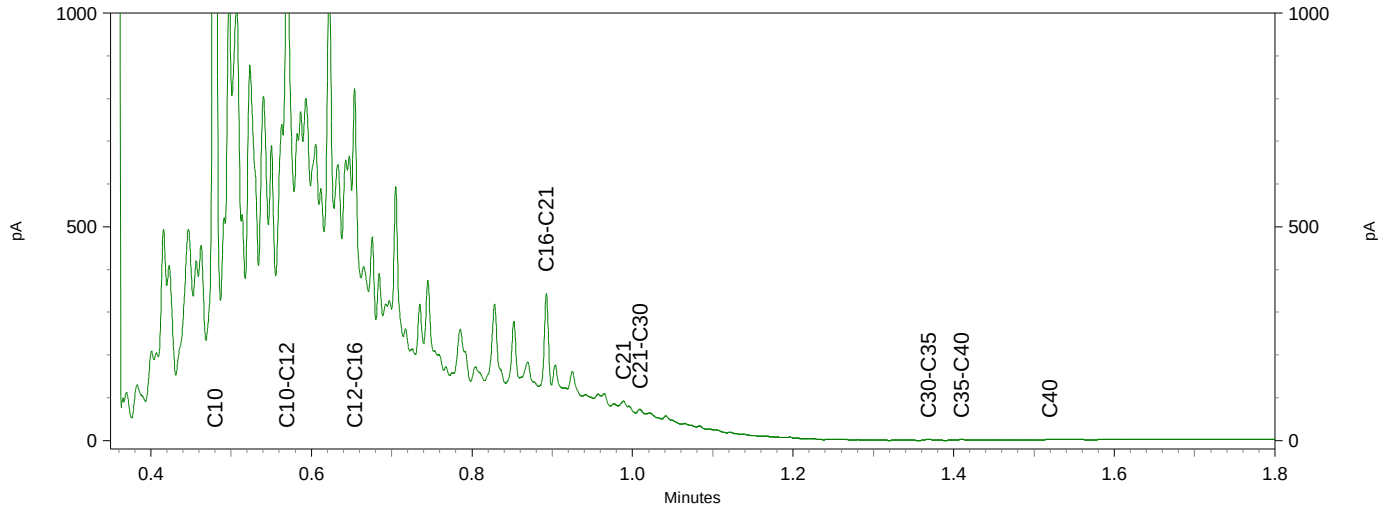


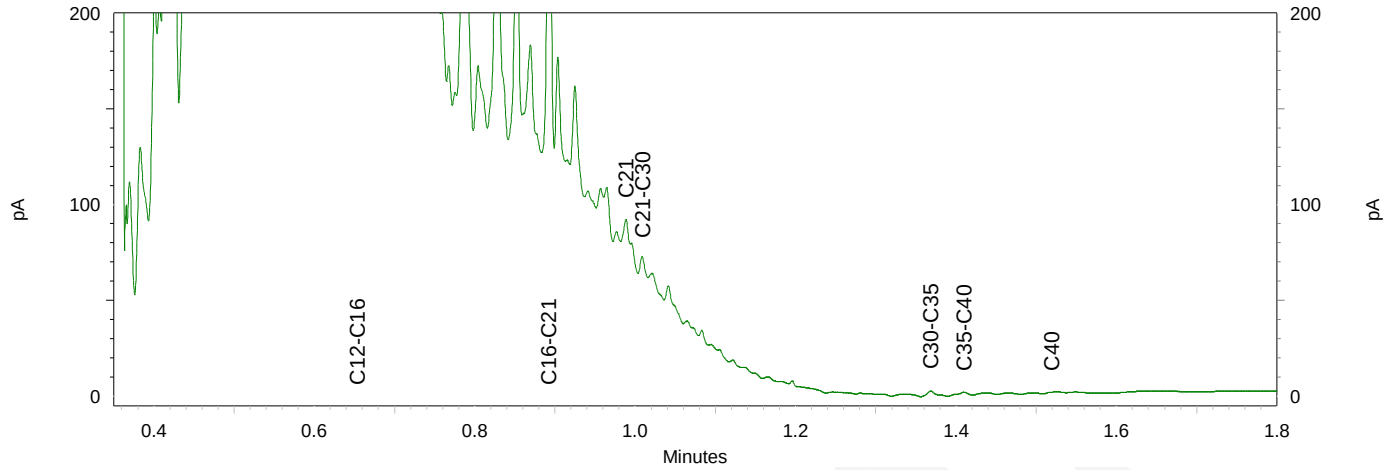


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712430
Certificate no.: 2020185248
Sample description.: 100z
V

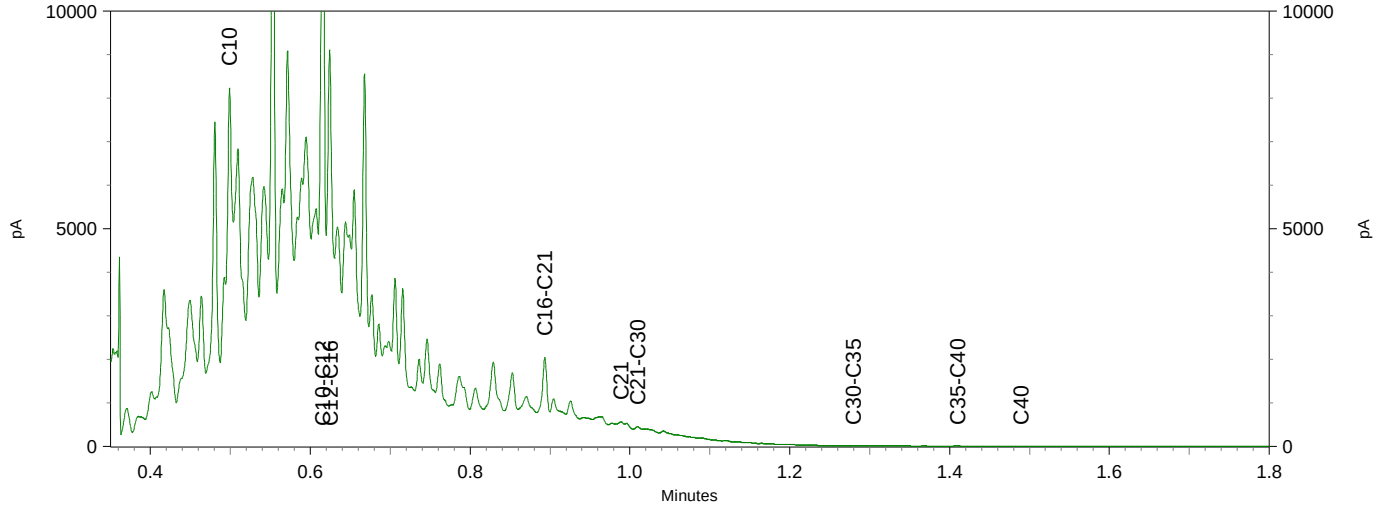


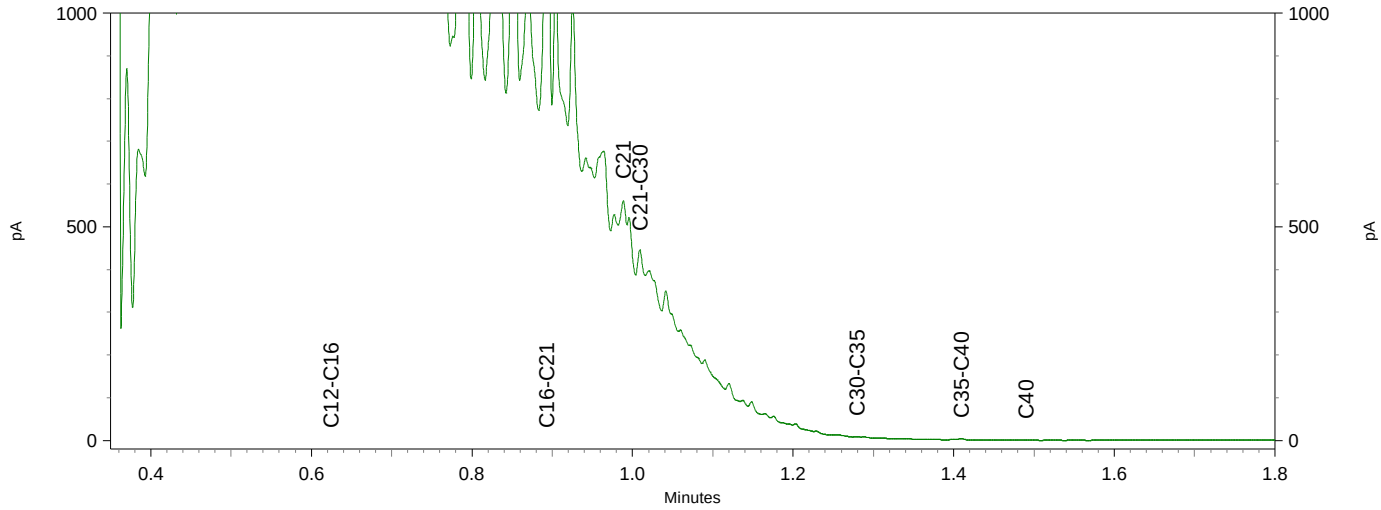


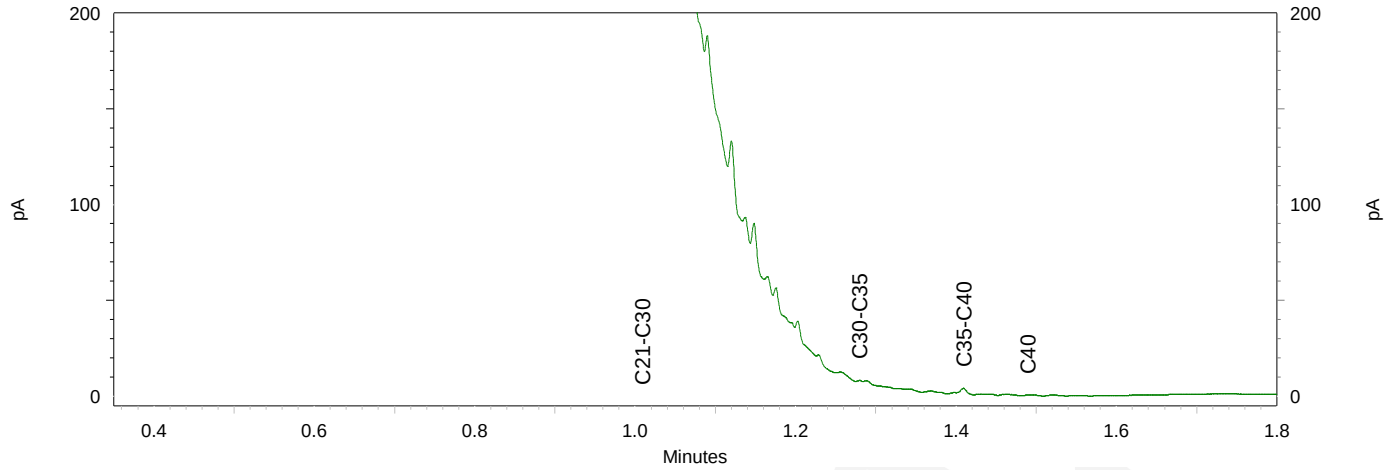


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712431
Certificate no.: 2020185248
Sample description.: 102z
V

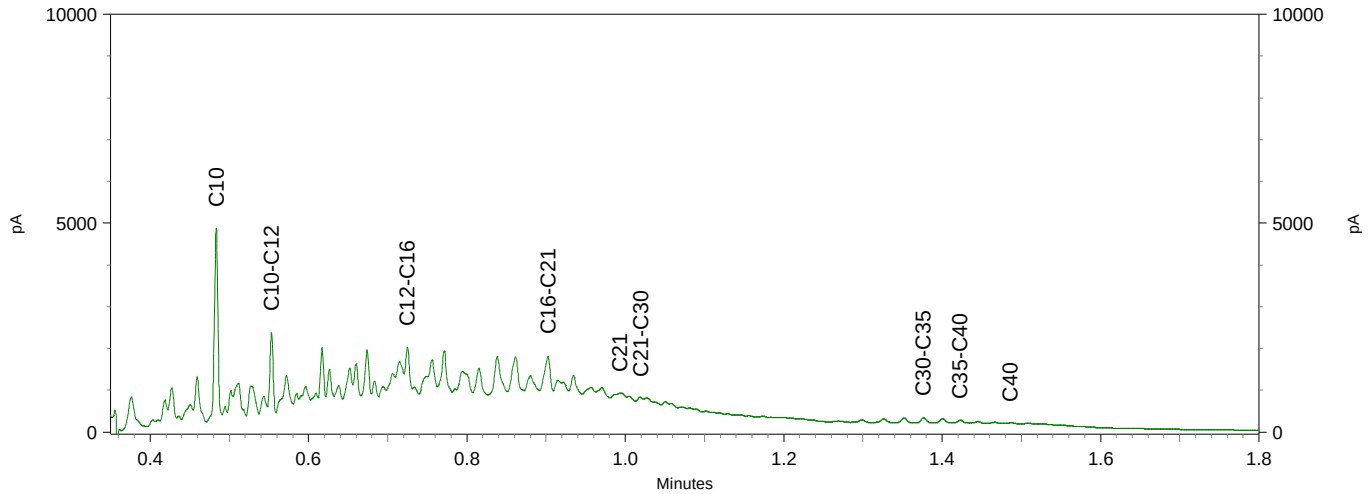


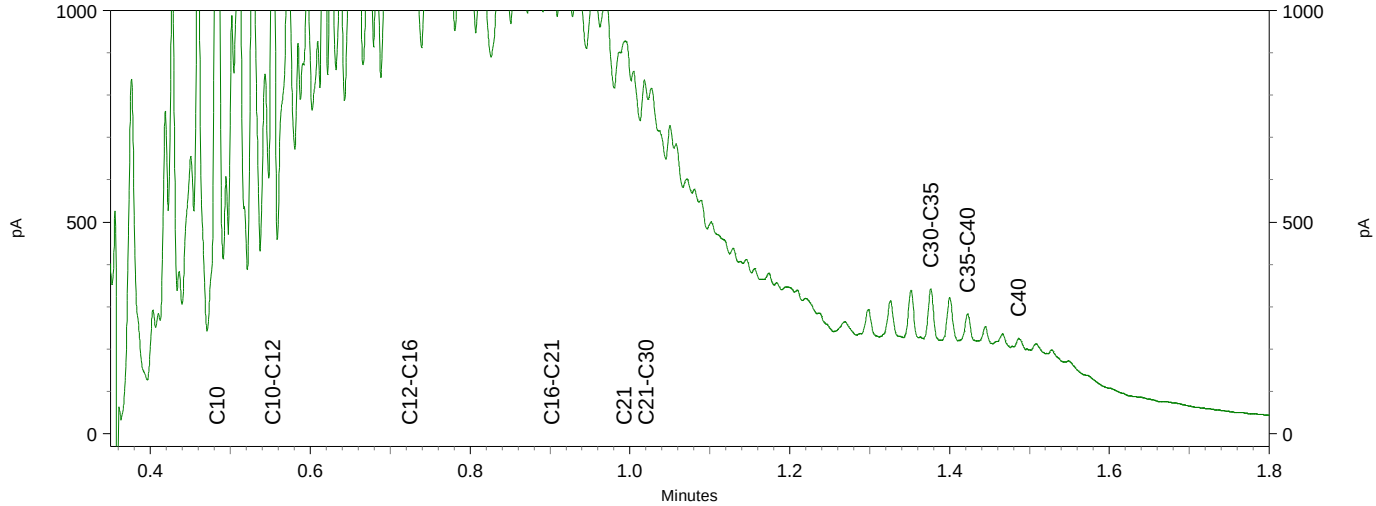


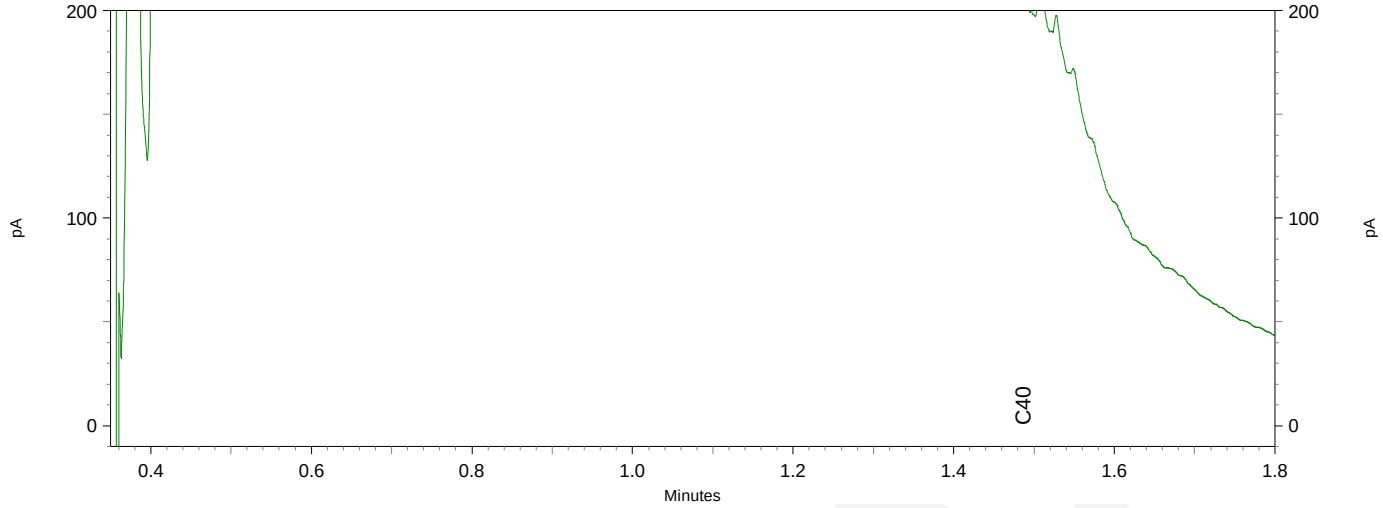


Chromatogram TPH/ Mineral Oil

Sample ID.: 11712432
Certificate no.: 2020185248
Sample description.: 106z
V







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VentEko Ltd.
Att. K. Kalpišs
22 Rigas Str.
LV-2107 Pinki, Babite District
LATVIA

Certificate of analysis

Date: 07-Dec-2020

Please find enclosed the analytical results of the test carried out for the project.

Certificate number/Version	2020191944/1
Your project number	VNT-SAN/2020
Your project name	VNT-SAN/2020
Your order number	VNT-SAN/2020
Samples received on	26-Nov-2020

This Certificate of Analysis shall not be reproduced except in full, without written approval of the laboratory. Interpretations and opinions are outside the scope of our accreditation, and all results relate only to samples supplied.

Soil samples will be stored for a period of 4 weeks and water samples for a period of 2 weeks after receipt of the samples at our laboratory. Without any additional request, samples will be disposed when the above mentioned periods have expired. If you require Eurofins Analytico to store the samples for a longer period, please complete this page and return it to Eurofins Analytico at least one businessday before the period is due to expire.
The costs of prolonged storage periods may be found in our pricelist.

Storage period:
Date: Name: Signature:

We are confident that we have performed the order in accordance with your expectations. If you have any remaining questions concerning this Certificate of Analysis, please don't hesitate to contact our Customer Service.

Yours sincerely,

Eurofins Analytico B.V.

Ing. A. Veldhuizen
Technical Manager

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020191944/1
Your project name	VNT-SAN/2020	Start date	30-Nov-2020
Your order number	VNT-SAN/2020	End date analysis	07-Dec-2020
Your sample taker		Report date	07-Dec-2020/13:51
		Annex	A,B,C,D
		Page	1/18

	Analysis	Unit	1	2	3	4	5
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	47	110	22	13	5600
Q	Toluene	µg/L	440	730	260	180	22000
Q	Ethylbenzene	µg/L	51	100	38	29	1400
Q	o-Xylene	µg/L	92	150	64	49	2400
Q	m,p-Xylene	µg/L	200	290	140	120	4900
Q	Xylenes (sum)	µg/L	290	450	200	170	7300
Q	BTEX (sum)	µg/L	820	1400	520	380	37000
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	35	2100	1100	40	580
	TPH (C12-C16)	µg/L	<10	1100	280	14	160
	TPH (C16-C21)	µg/L	<10	360	<10	<10	34
	TPH (C21-C30)	µg/L	<15	100	<15	<15	<15
	TPH (C30-C35)	µg/L	<10	15	<10	<10	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	42 3)	3600 3)	1400 3)	60 3)	760 3)
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
1	VE10	Groundwater	11734646
2	M5	Groundwater	11734647
3	30	Groundwater	11734648
4	25	Groundwater	11734649
5	7M	Groundwater	11734650

Q: Dutch Accreditation Council (RvA) accredited test
A: AP04 accredited test
S: AS SIKB recognized test
V: VLAREL recognized test
W: Walloon region recognized test

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020191944/1
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	Analysis	Unit	6	7	8	9	10
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	13000	690	250	90	540 [2)]
Q	Toluene	µg/L	45000	14000	3800	120	190
Q	Ethylbenzene	µg/L	2700	2400	680	360	370
Q	o-Xylene	µg/L	4600	6800	1700	170	280
Q	m,p-Xylene	µg/L	9100	13000	2800	1200 [2)]	1800 [2)]
Q	Xylenes (sum)	µg/L	14000	20000	4500	1300	2100
Q	BTEX (sum)	µg/L	74000	38000	9200	1900	3200
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	1100	1400	8200	880	4400
	TPH (C12-C16)	µg/L	510	270	4700	380	3000
	TPH (C16-C21)	µg/L	240	58	1800	130	1400
	TPH (C21-C30)	µg/L	62	<15	410	34	420
	TPH (C30-C35)	µg/L	12	<10	15	<10	71
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	33
Q	TPH Sum (C10-C40)	µg/L	1900 [3)]	1700 [3)]	15000 [3)]	1400 [3)]	9200 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
6	VE14	Groundwater	11734651
7	VE11	Groundwater	11734652
8	VE13	Groundwater	11734653
9	VE12	Groundwater	11734654
10	M4	Groundwater	11734655

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
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	Analysis	Unit	11	12	13	14	15
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	220	31	26000	81	2.3
Q	Toluene	µg/L	850	100	27000	140	81
Q	Ethylbenzene	µg/L	650	140	1600	170	48
Q	o-Xylene	µg/L	1300	330	2300	150	44
Q	m,p-Xylene	µg/L	3200	550 [2)]	5300	760 [2)]	100
Q	Xylenes (sum)	µg/L	4500	880	7600	920	150
Q	BTEX (sum)	µg/L	6200	1200	62000	1300	280
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	1900	1600	2400	2000	1700
	TPH (C12-C16)	µg/L	500	510	2100	540	480
	TPH (C16-C21)	µg/L	76	67	1200	63	91
	TPH (C21-C30)	µg/L	16	<15	360	18	20
	TPH (C30-C35)	µg/L	<10	<10	47	10	<10
	TPH (C35-C40)	µg/L	<10	<10	22	<10	<10
Q	TPH Sum (C10-C40)	µg/L	2500 [3)]	2200 [3)]	6100 [3)]	2600 [3)]	2300 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
11	VE27	Groundwater	11734656
12	VE19	Groundwater	11734657
13	2ve	Groundwater	11734658
14	5M	Groundwater	11734659
15	VE8	Groundwater	11734660

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

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	Analysis	Unit	16	17	18	19	20
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	13	31	550	360	370
Q	Toluene	µg/L	180	590	750	21000	21000
Q	Ethylbenzene	µg/L	64	110	480	4300	3100
Q	o-Xylene	µg/L	93	190	720	7400	7100
Q	m,p-Xylene	µg/L	200	380	1700	15000	14000
Q	Xylenes (sum)	µg/L	300	570	2400	23000	21000
Q	BTEX (sum)	µg/L	560	1300	4200	48000	45000
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	560	390	590	1700	1600
	TPH (C12-C16)	µg/L	210	210	240	470	310
	TPH (C16-C21)	µg/L	22	58	43	150	53
	TPH (C21-C30)	µg/L	<15	<15	<15	48	<15
	TPH (C30-C35)	µg/L	<10	<10	<10	<10	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	790 [3)]	650 [3)]	870 [3)]	2400 [3)]	1900 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
16	VE7	Groundwater	11734661
17	20a	Groundwater	11734662
18	3	Groundwater	11734663
19	VE24	Groundwater	11734664
20	VE25	Groundwater	11734665

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P.O. Box 459
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	Analysis	Unit	21	22	23	24	25
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	<0.20	0.25	<0.20	19	1.4
Q	Toluene	µg/L	<0.20	0.47	0.43	0.58	0.44
Q	Ethylbenzene	µg/L	0.68	1.4	1.0	28	6.4
Q	o-Xylene	µg/L	0.79	1.0	1.2	8.6	1.6
Q	m,p-Xylene	µg/L	2.6	3.3	3.5	21	5.3
Q	Xylenes (sum)	µg/L	3.4	4.3	4.7	29	6.9
Q	BTEX (sum)	µg/L	4.1	6.4	6.2	77	15
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	22	750	150	1700	980
	TPH (C12-C16)	µg/L	<10	220	43	960	400
	TPH (C16-C21)	µg/L	<10	17	<10	410	120
	TPH (C21-C30)	µg/L	<15	<15	<15	110	31
	TPH (C30-C35)	µg/L	<10	<10	<10	11	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	41 3)	980 3)	210 3)	3200 3)	1500 3)
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
21	VE26	Groundwater	11734666
22	77	Groundwater	11734667
23	71	Groundwater	11734668
24	70	Groundwater	11734669
25	67	Groundwater	11734670

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Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
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	Analysis	Unit	26	27	28	29	30
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	7.8	1.8	180	0.29	0.46
Q	Toluene	µg/L	0.74	0.59	0.68	0.38	0.70
Q	Ethylbenzene	µg/L	5.7	2.3	40	2.7	6.5
Q	o-Xylene	µg/L	2.9	2.3	26	3.6	5.6
Q	m,p-Xylene	µg/L	33	7.2	110	12	17
Q	Xylenes (sum)	µg/L	36	9.6	140	15	22
Q	BTEX (sum)	µg/L	51	14	360	19	30
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	280	410	700	780	1900
	TPH (C12-C16)	µg/L	72	280	200	250	890
	TPH (C16-C21)	µg/L	<10	160	16	60	150
	TPH (C21-C30)	µg/L	<15	43	<15	22	35
	TPH (C30-C35)	µg/L	<10	<10	<10	<10	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	360 [3)]	900 [3)]	900 [3)]	1100 [3)]	3000 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
26	62	Groundwater	11734671
27	65	Groundwater	11734672
28	60	Groundwater	11734673
29	72	Groundwater	11734674
30	1-4	Groundwater	11734675

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	Analysis	Unit	31	32	33	34	35
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	1.8	1.4	<0.20	0.29	0.63
Q	Toluene	µg/L	0.37	0.36	0.50	0.65	1.2
Q	Ethylbenzene	µg/L	3.2	4.0	2.9	4.3	33
Q	o-Xylene	µg/L	3.8	3.7	4.1	6.7	92
Q	m,p-Xylene	µg/L	12	12	14	21	300
Q	Xylenes (sum)	µg/L	16	16	18	28	400
Q	BTEX (sum)	µg/L	22	22	22	33	430
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	1100	1000	730	610	1100
	TPH (C12-C16)	µg/L	210	270	130	130	240
	TPH (C16-C21)	µg/L	<10	34	<10	<10	34
	TPH (C21-C30)	µg/L	<15	<15	<15	<15	<15
	TPH (C30-C35)	µg/L	<10	<10	<10	<10	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	1300 [3)]	1300 [3)]	860 [3)]	740 [3)]	1400 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
31	10	Groundwater	11734676
32	31	Groundwater	11734677
33	VE3	Groundwater	11734678
34	VE4	Groundwater	11734679
35	VE28	Groundwater	11734680

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

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	Analysis	Unit	36	37	38	39	40
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	3.5	8.0	9.1	180	<0.20
Q	Toluene	µg/L	8.0	2.8	85	23	0.40
Q	Ethylbenzene	µg/L	220	75	230	350	<0.20
Q	o-Xylene	µg/L	430	150	680 [2)]	180	<0.20
Q	m,p-Xylene	µg/L	980 [2)]	290	1400 [2)]	1200 [2)]	0.63
Q	Xylenes (sum)	µg/L	1400	450	2100	1400	0.63
Q	BTEX (sum)	µg/L	1600	530	2400	1900	1.0
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	1700	830	1300	3300	160
	TPH (C12-C16)	µg/L	430	250	280	5200	60
	TPH (C16-C21)	µg/L	100	12	43	4800	<10
	TPH (C21-C30)	µg/L	35	<15	<15	1500	<15
	TPH (C30-C35)	µg/L	<10	<10	<10	230	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	110	<10
Q	TPH Sum (C10-C40)	µg/L	2200 [3)]	1100 [3)]	1600 [3)]	15000 [3)]	230 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
36	33	Groundwater	11734681
37	M9	Groundwater	11734682
38	VE5	Groundwater	11734683
39	26	Groundwater	11734684
40	VE2	Groundwater	11734685

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	Analysis	Unit	41	42	43	44	45
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	<0.20	4.3	<0.20	3.4	24
Q	Toluene	µg/L	0.38	0.30	0.23	0.26	48
Q	Ethylbenzene	µg/L	<0.20	2.5	<0.20	4.8	260
Q	o-Xylene	µg/L	<0.20	<0.20	0.32	3.4	500 2)
Q	m,p-Xylene	µg/L	1.1	0.58	0.84	12	910 2)
Q	Xylenes (sum)	µg/L	1.1	0.58	1.2	15	1400
Q	BTEX (sum)	µg/L	1.4	7.7	1.4	24	1700
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	190	1100	980	2400	2100
	TPH (C12-C16)	µg/L	57	290	150	1100	670
	TPH (C16-C21)	µg/L	<10	15	<10	350	83
	TPH (C21-C30)	µg/L	<15	<15	<15	92	<15
	TPH (C30-C35)	µg/L	<10	<10	<10	<10	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	250 3)	1400 3)	1100 3)	3900 3)	2900 3)
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
41	3ve	Groundwater	11734686
42	VE30	Groundwater	11734687
43	38	Groundwater	11734688
44	11	Groundwater	11734689
45	39	Groundwater	11734690

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	Analysis	Unit	46	47	48	49	50
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	2.6	3.6	<0.20	80	0.22
Q	Toluene	µg/L	0.77	7.6	0.34	0.74	0.52
Q	Ethylbenzene	µg/L	60	340	3.9	6.8	2.9
Q	o-Xylene	µg/L	110	620 [2)]	6.4	2.5	5.2
Q	m,p-Xylene	µg/L	620 [2)]	780 [2)]	11	140	7.3
Q	Xylenes (sum)	µg/L	730	1400	18	150	13
Q	BTEX (sum)	µg/L	790	1700	22	230	16
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	4000	1800	890	470	790
	TPH (C12-C16)	µg/L	1300	420	230	140	220
	TPH (C16-C21)	µg/L	170	31	<10	<10	12
	TPH (C21-C30)	µg/L	42	<15	<15	<15	<15
	TPH (C30-C35)	µg/L	<10	<10	<10	<10	<10
	TPH (C35-C40)	µg/L	<10	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	5400 [3)]	2300 [3)]	1100 [3)]	610 [3)]	1000 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
46	VE22	Groundwater	11734691
47	VE21	Groundwater	11734692
48	VE1	Groundwater	11734693
49	36	Groundwater	11734694
50	VE29	Groundwater	11734695

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KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

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Certificate of analysis

Your project number	VNT-SAN/2020	Certificate number/Version	2020191944/1
Your project name	VNT-SAN/2020	Start date	30-Nov-2020
Your order number	VNT-SAN/2020	End date analysis	07-Dec-2020
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	Analysis	Unit	51	52	53	54	55
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	18	190	2.9	11000	150
Q	Toluene	µg/L	0.93	52	0.39	11000	310
Q	Ethylbenzene	µg/L	12	140	4.7	550	21
Q	o-Xylene	µg/L	2.4	120	1.0	1200	37
Q	m,p-Xylene	µg/L	5.8	980 [2)]	2.3	2300	130
Q	Xylenes (sum)	µg/L	8.1	1100	3.3	3400	170
Q	BTEX (sum)	µg/L	39	1500	11	25000	660
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	360	1200	530	1700	1900
	TPH (C12-C16)	µg/L	160	330	150	1300	1400
	TPH (C16-C21)	µg/L	14	43	<10	680	580
	TPH (C21-C30)	µg/L	<15	<15	<15	230	160
	TPH (C30-C35)	µg/L	<10	<10	<10	39	13
	TPH (C35-C40)	µg/L	<10	<10	<10	17	<10
Q	TPH Sum (C10-C40)	µg/L	530 [3)]	1600 [3)]	690 [3)]	3900 [3)]	4000 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
51	34	Groundwater	11734696
52	VE6	Groundwater	11734697
53	VE23	Groundwater	11734698
54	117	Groundwater	11734699
55	134	Groundwater	11734700

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
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Site www.eurofins.nl

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	Analysis	Unit	56	57	58	59	60
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	210	1200	35	1400	6100
Q	Toluene	µg/L	280	5700	8.4	3300	4500
Q	Ethylbenzene	µg/L	19	380	400	490	630
Q	o-Xylene	µg/L	32	1200	710 [2)]	970	1200
Q	m,p-Xylene	µg/L	68	2500	1400 [2)]	2100	3100
Q	Xylenes (sum)	µg/L	100	3700	2100	3000	4300
Q	BTEX (sum)	µg/L	610	11000	2600	8200	15000
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	1500	860	280000	5100	1800
	TPH (C12-C16)	µg/L	740	540	520000	7700	1400
	TPH (C16-C21)	µg/L	160	130	360000	5100	780
	TPH (C21-C30)	µg/L	51	26	83000	1200	290
	TPH (C30-C35)	µg/L	<10	<10	1200	49	57
	TPH (C35-C40)	µg/L	<10	<10	230	13	25
Q	TPH Sum (C10-C40)	µg/L	2400 [3)]	1600 [3)]	1.2E6 [3)]	19000 [3)]	4300 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
56	146	Groundwater	11734701
57	105	Groundwater	11734702
58	VE14	Groundwater	11734703
59	107	Groundwater	11734704
60	123	Groundwater	11734705

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
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	Analysis	Unit	61	62	63	64	65
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	150	260	<20 [1]	170	3200
Q	Toluene	µg/L	340	25	<20 [1]	53	3900
Q	Ethylbenzene	µg/L	29	520 [2]	<20 [1]	200	580
Q	o-Xylene	µg/L	39	1100 [2]	4000	66	380
Q	m,p-Xylene	µg/L	120	2100 [2]	6300	880 [2]	2900
Q	Xylenes (sum)	µg/L	160	3200	10000	950	3300
Q	BTEX (sum)	µg/L	670	4000	10000	1400	11000
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	870	150000	8300	270000	35000
	TPH (C12-C16)	µg/L	440	180000	12000	330000	38000
	TPH (C16-C21)	µg/L	95	110000	8300	200000	21000
	TPH (C21-C30)	µg/L	23	26000	1900	47000	6200
	TPH (C30-C35)	µg/L	<10	430	76	680	810
	TPH (C35-C40)	µg/L	<10	<100 [1]	21	120	330
Q	TPH Sum (C10-C40)	µg/L	1400 [3]	460000 [3]	30000 [3]	830000 [3]	100000 [3]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
61	133	Groundwater	11734706
62	125	Groundwater	11734707
63	102	Groundwater	11734708
64	VE15	Groundwater	11734709
65	126	Groundwater	11734710

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Gildeweg 42-46
3771 NB Barneveld
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	Analysis	Unit	66	67	68	69	70
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	7300	56000	12	37000	2800
Q	Toluene	µg/L	16000	56000	70	66000	24000
Q	Ethylbenzene	µg/L	930	3500	1.5	3700	950
Q	o-Xylene	µg/L	1700	5400	33	5600	4100
Q	m,p-Xylene	µg/L	3300	11000	55	12000	7800
Q	Xylenes (sum)	µg/L	5000	17000	88	17000	12000
Q	BTEX (sum)	µg/L	29000	130000	170	120000	40000
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	1500	15000	8400	1300	24000
	TPH (C12-C16)	µg/L	480	10000	33000	270	43000
	TPH (C16-C21)	µg/L	98	5000	23000	84	28000
	TPH (C21-C30)	µg/L	19	1600	5200	24	6400
	TPH (C30-C35)	µg/L	<10	220	160	<10	350
	TPH (C35-C40)	µg/L	<10	95	37	<10	110
Q	TPH Sum (C10-C40)	µg/L	2100 3)	32000 3)	69000 3)	1600 3)	100000 3)
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
66	132	Groundwater	11734711
67	115	Groundwater	11734712
68	101	Groundwater	11734713
69	114	Groundwater	11734714
70	112	Groundwater	11734715

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

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	Analysis	Unit	71	72	73	74	75
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	4400	11000	300	22000	15
Q	Toluene	µg/L	3800	20000	390	40000	2.9
Q	Ethylbenzene	µg/L	380	1100	<0.20	1700	65
Q	o-Xylene	µg/L	1800	2100	87	3100	89
Q	m,p-Xylene	µg/L	5400	4500	320	5700	250
Q	Xylenes (sum)	µg/L	7200	6500	410	8800	340
Q	BTEX (sum)	µg/L	16000	39000	1100	72000	420
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	7200	1000	240	890	1700
	TPH (C12-C16)	µg/L	15000	390	480	170	450
	TPH (C16-C21)	µg/L	11000	120	360	24	30
	TPH (C21-C30)	µg/L	4800	39	80	<15	<15
	TPH (C30-C35)	µg/L	1200	<10	<10	<10	<10
	TPH (C35-C40)	µg/L	510	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	39000 [3)]	1600 [3)]	1100 [3)]	1100 [3)]	2100 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
71	106	Groundwater	11734716
72	109	Groundwater	11734717
73	104	Groundwater	11734718
74	118	Groundwater	11734719
75	151	Groundwater	11734720

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	Analysis	Unit	76	77	78	79	80
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	15000	170	6.4	8.4	<0.20
Q	Toluene	µg/L	15000	260	0.78	3.4	<0.20
Q	Ethylbenzene	µg/L	700	180	21	0.95	<0.20
Q	o-Xylene	µg/L	1500	260	73	160	<0.20
Q	m,p-Xylene	µg/L	3100	700 [2)]	240	270	<0.20
Q	Xylenes (sum)	µg/L	4600	960	310	440	<0.40
Q	BTEX (sum)	µg/L	36000	1600	340	450	<1.0
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	2200	1200	2100	3200	160
	TPH (C12-C16)	µg/L	2200	680	970	1500	65
	TPH (C16-C21)	µg/L	1200	280	170	180	15
	TPH (C21-C30)	µg/L	360	94	54	58	26
	TPH (C30-C35)	µg/L	49	13	<10	<10	<10
	TPH (C35-C40)	µg/L	20	<10	<10	<10	<10
Q	TPH Sum (C10-C40)	µg/L	5900 [3)]	2200 [3)]	3300 [3)]	4900 [3)]	270 [3)]
	Chromatogram		See annex	See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
76	128	Groundwater	11734721
77	136	Groundwater	11734722
78	150	Groundwater	11734723
79	153	Groundwater	11734724
80	159	Groundwater	11734725

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P.O. Box 459
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	Analysis	Unit	81	82	83	84	85
	Mono Aromatic Hydrocarbons						
Q	Benzene	µg/L	<0.20	<0.20	5.1	50	29
Q	Toluene	µg/L	<0.20	<0.20	6.0	12	110
Q	Ethylbenzene	µg/L	<0.20	<0.20	3.3	36	29
Q	o-Xylene	µg/L	<0.20	<0.20	80	96	370
Q	m,p-Xylene	µg/L	<0.20	<0.20	88	180	750 [2)]
Q	Xylenes (sum)	µg/L	<0.40	<0.40	170	280	1100
Q	BTEX (sum)	µg/L	<1.0	<1.0	180	370	1300
	Petroleum Hydrocarbons						
	TPH (C10-C12)	µg/L	<10	13	18000	14000	8600
	TPH (C12-C16)	µg/L	<10	18	11000	12000	19000
	TPH (C16-C21)	µg/L	<10	<10	2900	5200	12000
	TPH (C21-C30)	µg/L	<15	<15	720	1300	3000
	TPH (C30-C35)	µg/L	<10	<10	37	84	170
	TPH (C35-C40)	µg/L	<10	<10	11	30	48
Q	TPH Sum (C10-C40)	µg/L	<38	42	32000 [3)]	33000 [3)]	43000 [3)]
	Chromatogram			See annex	See annex	See annex	See annex

No.	Your sample description	Specified sample matrix	Sample nr.
81	VE16	Groundwater	11734726
82	VE15	Groundwater	11734727
83	157	Groundwater	11734728
84	138	Groundwater	11734729
85	111	Groundwater	11734730

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	Analysis	Unit	86
	Mono Aromatic Hydrocarbons		
Q	Benzene	µg/L	120
Q	Toluene	µg/L	280
Q	Ethylbenzene	µg/L	13
Q	o-Xylene	µg/L	31
Q	m,p-Xylene	µg/L	71
Q	Xylenes (sum)	µg/L	100
Q	BTEX (sum)	µg/L	510
	Petroleum Hydrocarbons		
	TPH (C10-C12)	µg/L	1300
	TPH (C12-C16)	µg/L	3500
	TPH (C16-C21)	µg/L	2300
	TPH (C21-C30)	µg/L	590
	TPH (C30-C35)	µg/L	48
	TPH (C35-C40)	µg/L	19
Q	TPH Sum (C10-C40)	µg/L	7600 [3)]
	Chromatogram		See annex

No.	Your sample description	Specified sample matrix	Sample nr.
86	100	Groundwater	11734731

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
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Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11734646	VE10				
0680447439				23-Nov-2020	VE10
0675222615				23-Nov-2020	VE10
11734647	M5				
0680447434				23-Nov-2020	M5
0675222613				23-Nov-2020	M5
11734648	30				
0680447441				23-Nov-2020	30
0675222603				23-Nov-2020	30
11734649	25				
0680447440				23-Nov-2020	25
0675222618				23-Nov-2020	25
11734650	7M				
0680447436				23-Nov-2020	7M
0675222575				23-Nov-2020	7M
11734651	VE14				
0680447438				23-Nov-2020	VE14
0675222570				23-Nov-2020	VE14
11734652	VE11				
0675222614				23-Nov-2020	VE11
0680447437					
11734653	VE13				
0680447433				23-Nov-2020	VE13
0675222591				23-Nov-2020	VE13
11734654	VE12				
0680447432				23-Nov-2020	VE12
0675222598				23-Nov-2020	VE12
11734655	M4				
0680472845				23-Nov-2020	M4
0675222604				23-Nov-2020	M4
11734656	VE27				
0680472853				23-Nov-2020	VE27
0675222589				23-Nov-2020	VE27
11734657	VE19				
0680472846				23-Nov-2020	VE19

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Gildeweg 42-46
3771 NB Barneveld
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3770 AL Barneveld NL

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Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
0675222574				23-Nov-2020	VE19
11734658	2ve				
0680472833				23-Nov-2020	2ve
0675222639				23-Nov-2020	2ve
11734659	5M				
0680472850				23-Nov-2020	5M
0675222607				23-Nov-2020	5M
11734660	VE8				
0680472839				23-Nov-2020	VE8
0675222630				23-Nov-2020	VE8
11734661	VE7				
0680472849				23-Nov-2020	VE7
0675222646				23-Nov-2020	VE7
11734662	20a				
0680472848				23-Nov-2020	20a
0675222637				23-Nov-2020	20a
11734663	3				
0680472827				23-Nov-2020	3
0675222626				23-Nov-2020	3
11734664	VE24				
0680448810				23-Nov-2020	VE24
0675222625				23-Nov-2020	VE24
11734665	VE25				
0680448811				23-Nov-2020	VE25
0675222636				23-Nov-2020	VE25
11734666	VE26				
0680448805				23-Nov-2020	VE26
0675222654				23-Nov-2020	VE26
11734667	77				
0680448804				23-Nov-2020	77
0675222597				23-Nov-2020	77
11734668	71				
0680448801				23-Nov-2020	71
0675222647				23-Nov-2020	71

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
BIC: BNPANL2A
KvK/CoC No. 09088623
BTW/VAT No. NL 8043.14.883.B01

Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11734669	70				
0680448803				23-Nov-2020	70
0675222634				23-Nov-2020	70
11734670	67				
0680448802				23-Nov-2020	67
0675222656				23-Nov-2020	67
11734671	62				
0680448806				23-Nov-2020	62
0675222662				23-Nov-2020	62
11734672	65				
0680448807				23-Nov-2020	65
0675222588				23-Nov-2020	65
11734673	60				
0680447456				23-Nov-2020	60
0675222624				23-Nov-2020	60
11734674	72				
0680447455				23-Nov-2020	72
0675222635				23-Nov-2020	72
11734675	1-4				
0680447443				23-Nov-2020	1-4
0675222645				23-Nov-2020	1-4
11734676	10				
0680447448				23-Nov-2020	10
0675222653				23-Nov-2020	10
11734677	31				
0680447458				23-Nov-2020	31
0675222631				23-Nov-2020	31
11734678	VE3				
0680447457				23-Nov-2020	VE3
0675222644				23-Nov-2020	VE3
11734679	VE4				
0680447459				23-Nov-2020	VE4
0675222643				23-Nov-2020	VE4
11734680	VE28				
0680447453				23-Nov-2020	VE28

Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
0675222623				23-Nov-2020	VE28
11734681	33				
0680447464				23-Nov-2020	33
0675222655				23-Nov-2020	33
11734682	M9				
0680447465				23-Nov-2020	M9
0675223454				23-Nov-2020	M9
11734683	VE5				
0680447463				23-Nov-2020	VE5
0675223465				23-Nov-2020	VE5
11734684	26				
0680447462				23-Nov-2020	26
0675222587				23-Nov-2020	26
11734685	VE2				
0680447461				23-Nov-2020	VE2
0675222605				23-Nov-2020	VE2
11734686	3ve				
0680447460				23-Nov-2020	3ve
0675222566				23-Nov-2020	3ve
11734687	VE30				
0680447454				23-Nov-2020	VE30
0675222649				23-Nov-2020	VE30
11734688	38				
0680472829				23-Nov-2020	38
0675222658				23-Nov-2020	38
11734689	11				
0680472821				23-Nov-2020	11
0675222657				23-Nov-2020	11
11734690	39				
0680472828				23-Nov-2020	39
0675222648				23-Nov-2020	39
11734691	VE22				
0680447446				23-Nov-2020	VE22
0675222659				23-Nov-2020	VE22

Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11734692	VE21				
0680447445				23-Nov-2020	VE21
0675222629				23-Nov-2020	VE21
11734693	VE1				
0680447452				23-Nov-2020	VE1
0675222660				23-Nov-2020	VE1
11734694	36				
0680447451				23-Nov-2020	36
0675223445				23-Nov-2020	36
11734695	VE29				
0680447442				23-Nov-2020	VE29
0675223455				23-Nov-2020	VE29
11734696	34				
0680447447				23-Nov-2020	34
0675223464				23-Nov-2020	34
11734697	VE6				
0680447450				23-Nov-2020	VE6
0675223435				23-Nov-2020	VE6
11734698	VE23				
0680447444				23-Nov-2020	VE23
0675223466				23-Nov-2020	VE23
11734699	117				
0680447449				23-Nov-2020	117
0675223469				23-Nov-2020	117
11734700	134				
0680472822				23-Nov-2020	134
0675223467				23-Nov-2020	134
11734701	146				
0680472836				23-Nov-2020	146
0675223457				23-Nov-2020	146
11734702	105				
0680472825				23-Nov-2020	105
0675223444				23-Nov-2020	105
11734703	VE14				
0680472837				23-Nov-2020	VE14

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
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Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
0675223434				23-Nov-2020	VE14
11734704	107				
0680472824				23-Nov-2020	107
0675223448				23-Nov-2020	107
11734705	123				
0680472823				23-Nov-2020	123
0675223456				23-Nov-2020	123
11734706	133				
0680472830				23-Nov-2020	133
0675223414				23-Nov-2020	133
11734707	125				
0680472831				23-Nov-2020	125
0675223417				23-Nov-2020	125
11734708	102				
0680472838				23-Nov-2020	102
0675223404				23-Nov-2020	102
11734709	VE15				
0680447424				23-Nov-2020	VE15
0675223395				23-Nov-2020	VE15
11734710	126				
0680447406				23-Nov-2020	126
0675223427				23-Nov-2020	126
11734711	132				
0680447405				23-Nov-2020	132
0675223436				23-Nov-2020	132
11734712	115				
0680447425				23-Nov-2020	115
0675223459				23-Nov-2020	115
11734713	101				
0680447417				23-Nov-2020	101
0675223447				23-Nov-2020	101
11734714	114				
0680447418				23-Nov-2020	114
0675223415				23-Nov-2020	114

Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
11734715	112				
0680447431				23-Nov-2020	112
0675223424				23-Nov-2020	112
11734716	106				
0680447430				23-Nov-2020	106
0675223425				23-Nov-2020	106
11734717	109				
0680447423				23-Nov-2020	109
0675223437				23-Nov-2020	109
11734718	104				
0680447410				23-Nov-2020	104
0675223411				23-Nov-2020	104
11734719	118				
0680447416				23-Nov-2020	118
0675223391				23-Nov-2020	118
11734720	151				
0680447415				23-Nov-2020	151
0675223416				23-Nov-2020	151
11734721	128				
0680447412				23-Nov-2020	128
0675223446				23-Nov-2020	128
11734722	136				
0680447411				23-Nov-2020	136
0675223406				23-Nov-2020	136
11734723	150				
0680447422				23-Nov-2020	150
0675223426				23-Nov-2020	150
11734724	153				
0680447421				23-Nov-2020	153
0675223398				23-Nov-2020	153
11734725	159				
0680447414				23-Nov-2020	159
0675223405				23-Nov-2020	159
11734726	VE16				
0680447413				23-Nov-2020	VE16

Appendix (A) with the specified sub-sample information belonging to the analysis certificate. 2020191944/

Sample nr.	Your sample description				
Barcode	Drill-#	From	To	Your sampling date	Sample description/Sampling ID
0675223392				23-Nov-2020	VE16
11734727	VE15				
0680472844				23-Nov-2020	VE15
0675223394				23-Nov-2020	VE15
11734728	157				
0680472826				23-Nov-2020	157
0675223377				23-Nov-2020	157
11734729	138				
0680472832				23-Nov-2020	138
0675223376				23-Nov-2020	138
11734730	111				
0680472835				23-Nov-2020	111
0675223374				23-Nov-2020	111
11734731	100				
0680472841				23-Nov-2020	100
0675223390				23-Nov-2020	100

Annex (B) concerning remarks referring to certificate of analysis 2020191944/1

Remark 1)
Reporting limit increased due to dilution of sample.

Remark 2)
Indicative value: result is outside the calibration range of the method. No dilition possible.

Remark 3)
Volatile oil fraction present.

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
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KvK/CoC No. 09088623
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Annex (C) method references belonging to certificate of analysis 2020191944/1

Analysis	Method	Technique	Method reference
Mono Aromatic Hydrocarbons			
Aromatics (BTEX)	W0254	HS-GC/MS	ISO 11423-1
Petroleum Hydrocarbons			
EPH (C10-C40)	W0215	GC/FID	NEN EN ISO 9377-2
Chromatogram oil (GC)	W0215	GC/FID	In house method

Additional information about the applied methods as well as the classification of the accuracy, are listed in our supplement: "Specification of methods of analyses", version June 2020.

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

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Annex (D) remarks concerning the sampling and preservation period 2020191944/1

Non compliance(s) of the criteria is(are) observed that may have influenced the accuracy of the test results of samples mentioned below.

Eurofins Analytico B.V.

Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
IBAN: NL71BNPA0227924525
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Annex (D) remarks concerning the sampling and preservation period 2020191944/1

Non compliance(s) of the criteria is(are) observed that may have influenced the accuracy of the test results of samples mentioned below.

Analysis	Sample nr.
The preservation term for this parameter has been expired.	
Volatiles (HS) preparation	11734646
	11734647
	11734648
	11734649
	11734650
	11734651
	11734652
	11734653
	11734654
	11734655
	11734656
	11734657
	11734658
	11734659
	11734660
	11734661
	11734662
	11734663
	11734664
	11734665
	11734666
	11734667
	11734668
	11734669
	11734670
	11734671
	11734672
	11734673
	11734674
	11734675
	11734676
	11734677
	11734678
	11734679
	11734680
	11734681
	11734682
	11734683
	11734684
	11734685
	11734686
	11734687
	11734688

Annex (D) remarks concerning the sampling and preservation period 2020191944/1

Non compliance(s) of the criteria is(are) observed that may have influenced the accuracy of the test results of samples mentioned below.

11734689
11734690
11734691
11734692
11734693
11734694
11734695
11734696
11734697
11734698
11734699
11734700
11734701
11734702
11734703
11734704
11734705
11734706
11734707
11734708
11734709
11734710
11734711
11734712
11734713
11734714
11734715
11734716
11734717
11734718
11734719
11734720
11734721
11734722
11734723
11734724
11734725
11734726
11734727
11734728
11734729
11734730
11734731

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Gildeweg 42-46
3771 NB Barneveld
P.O. Box 459
3770 AL Barneveld NL

Tel. +31 (0)34 242 63 00
Fax +31 (0)34 242 63 99
E-mail info-env@eurofins.nl
Site www.eurofins.nl

BNP Paribas S.A. 227 9245 25
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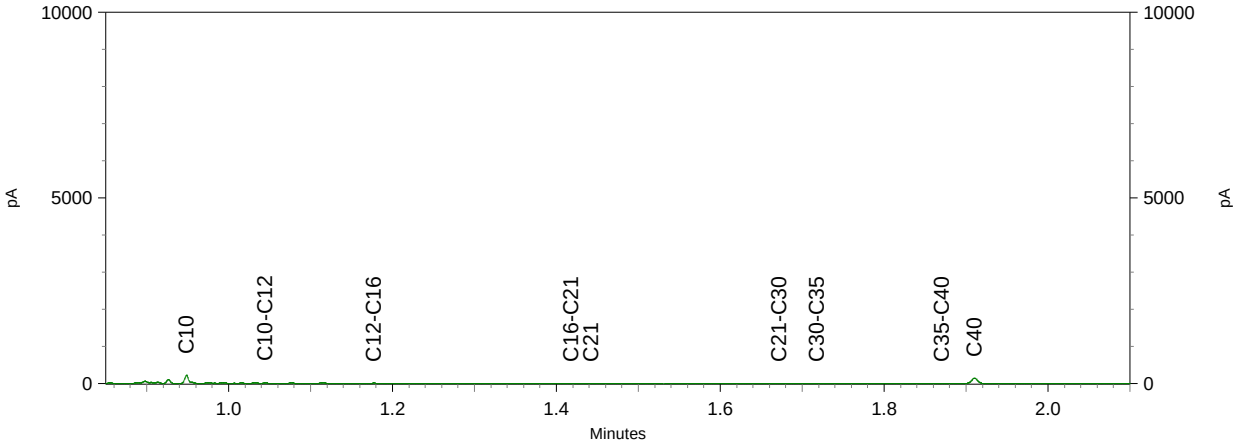
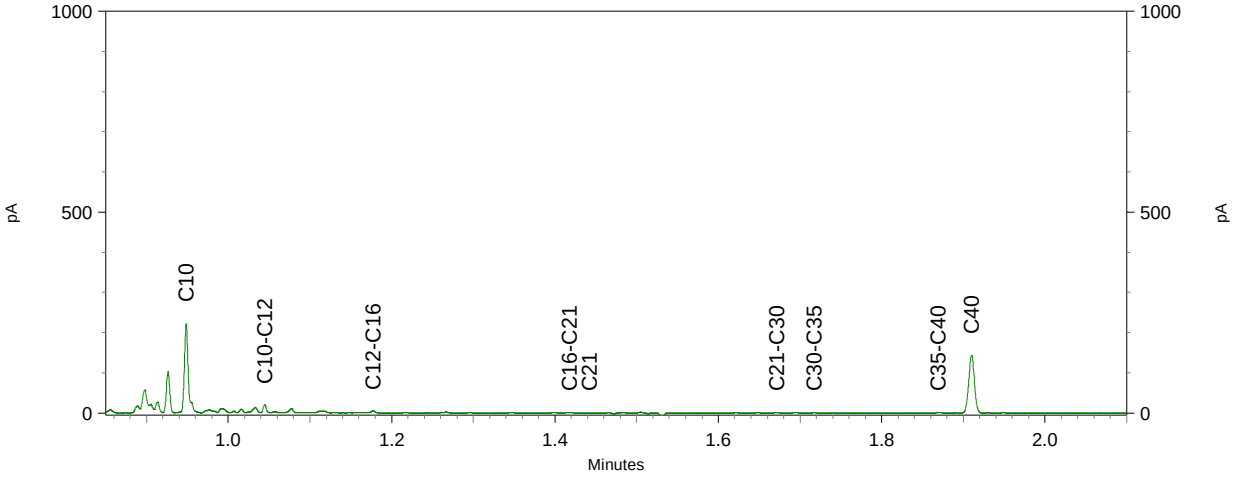
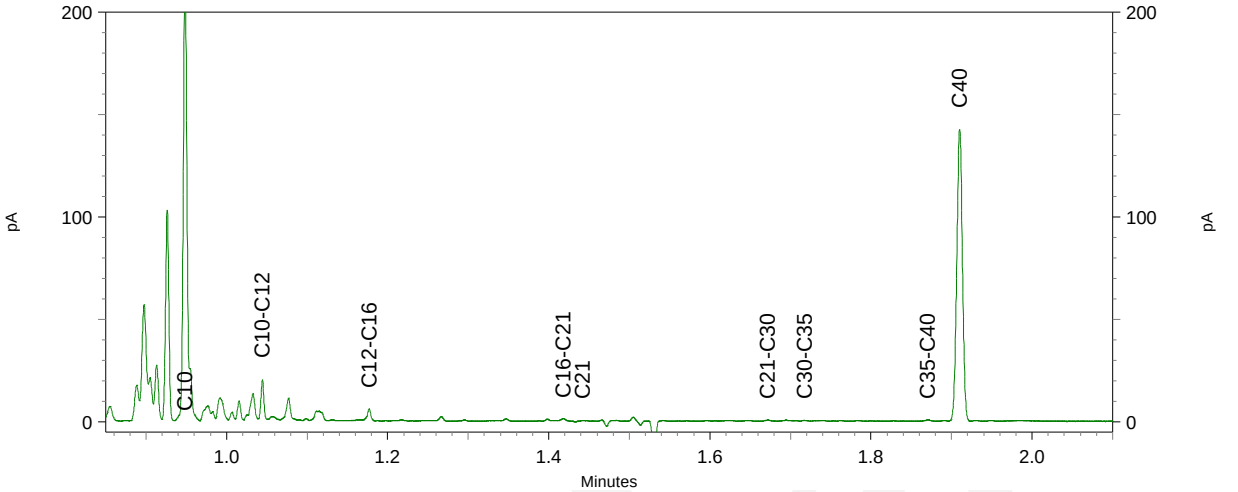
BTW/VAT No. NL 8043.14.883.B01

Chromatogram TPH/ Mineral Oil

Sample ID.: 11734646
Certificate no.: 2020191944
Sample description.: VE10
V

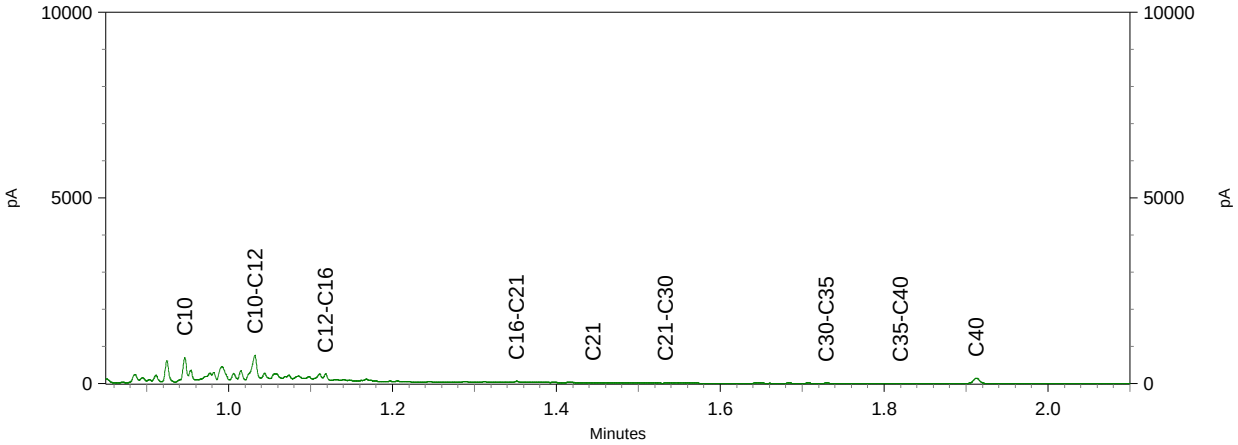


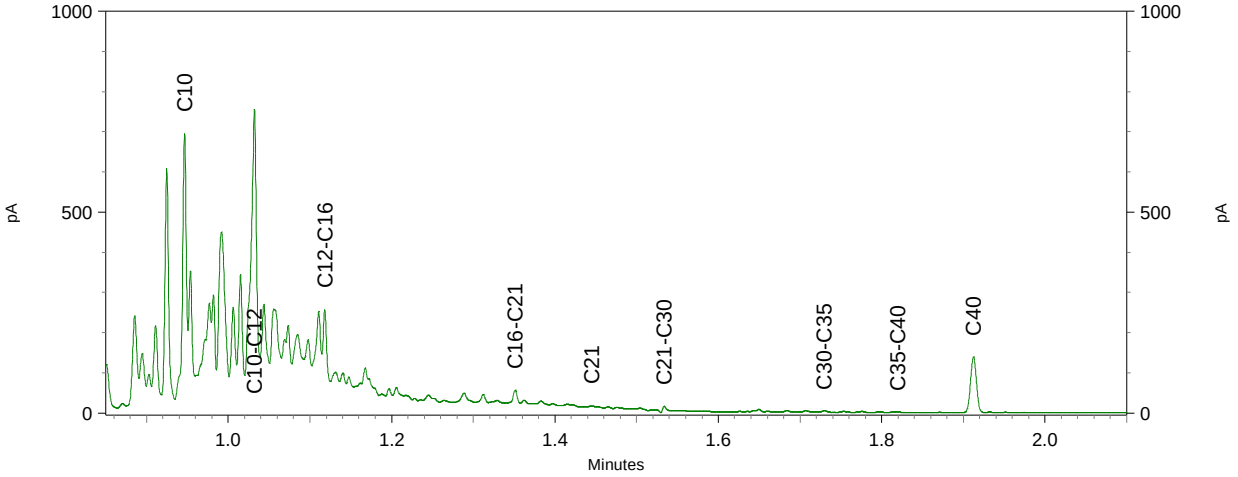


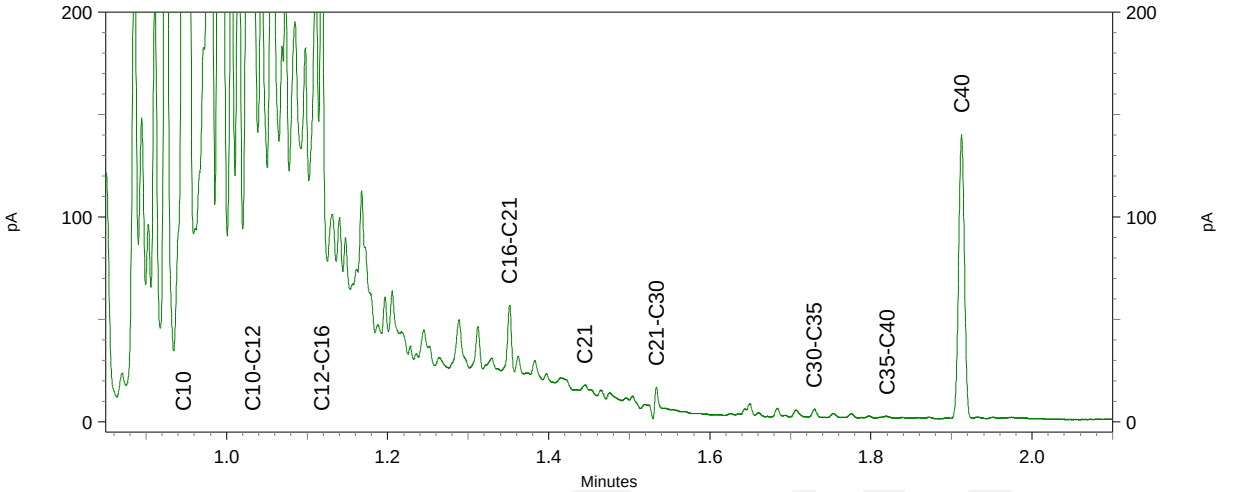


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734647
Certificate no.: 2020191944
Sample description.: M5
V

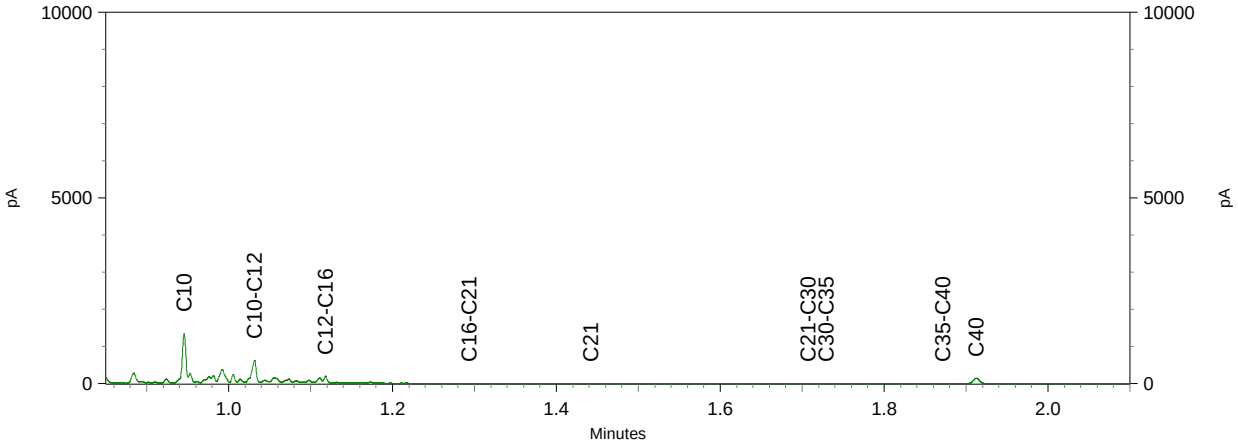


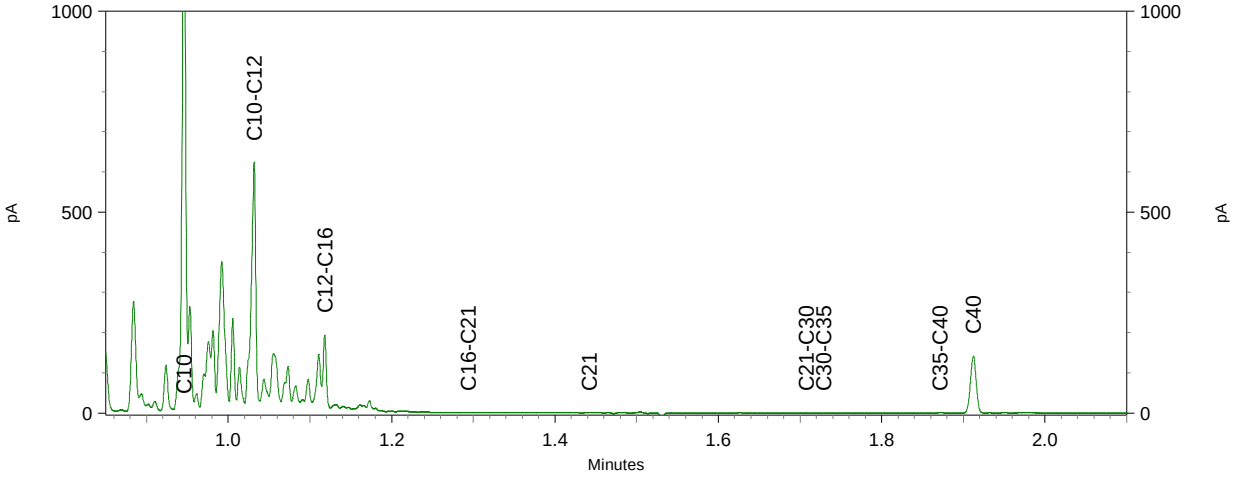


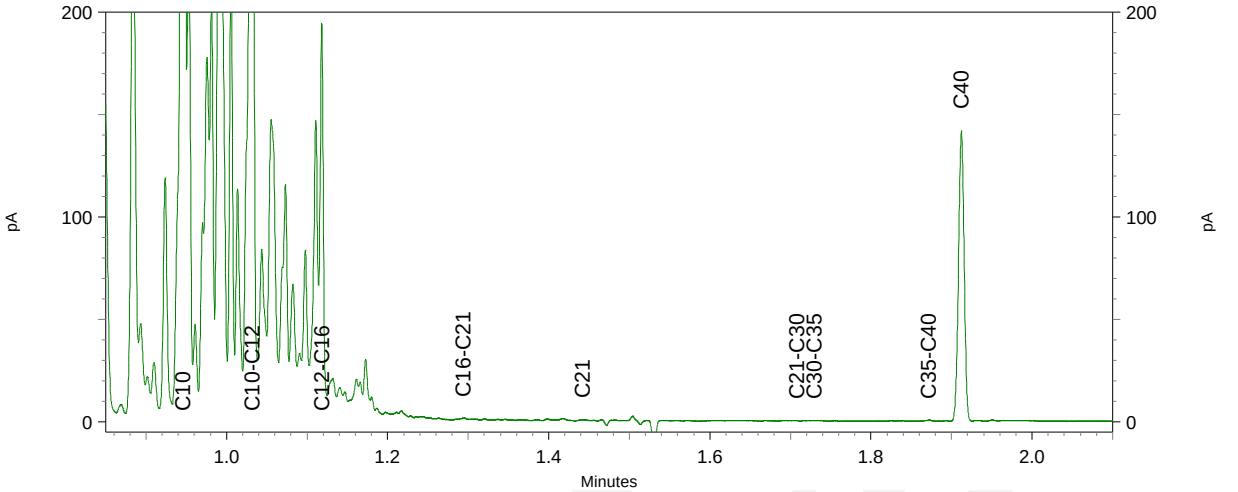


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734648
Certificate no.: 2020191944
Sample description.: 30
V

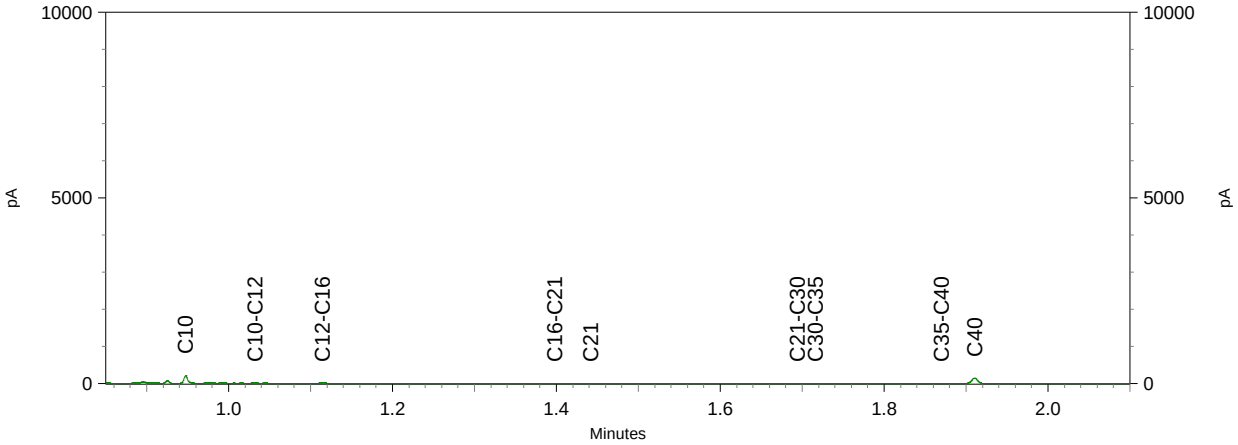


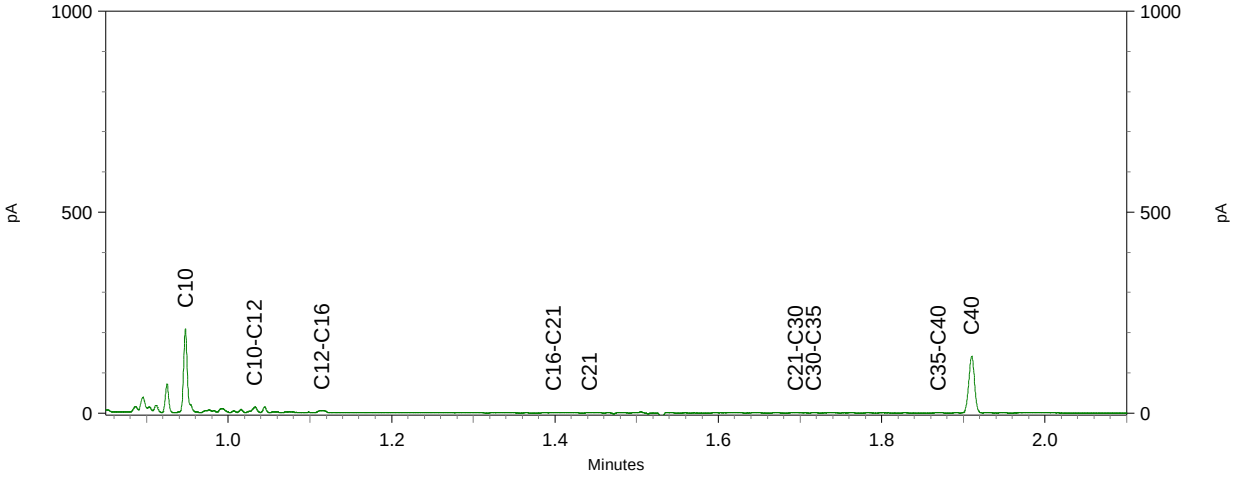


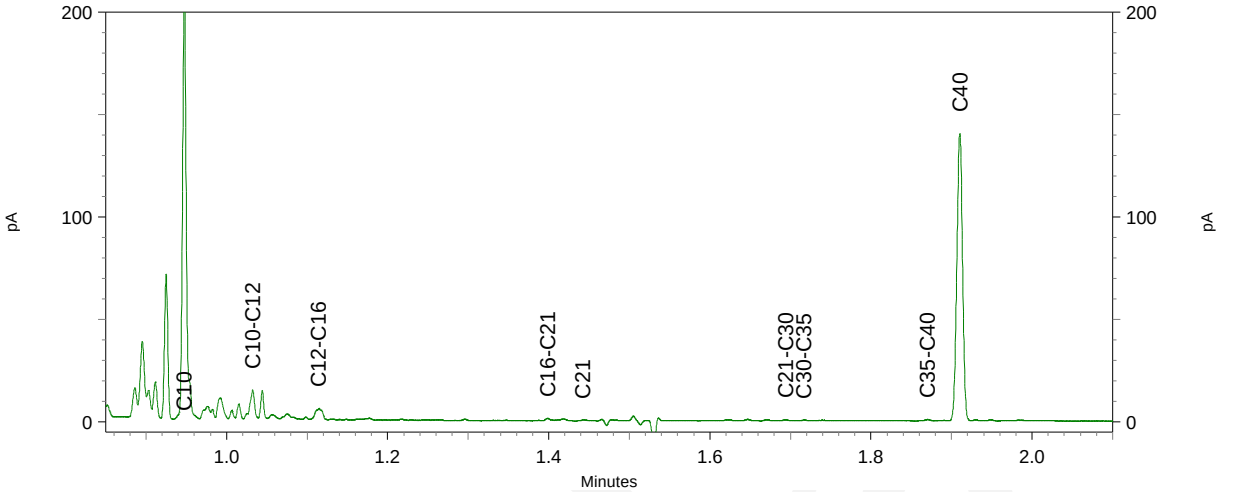


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734649
Certificate no.: 2020191944
Sample description.: 25
V

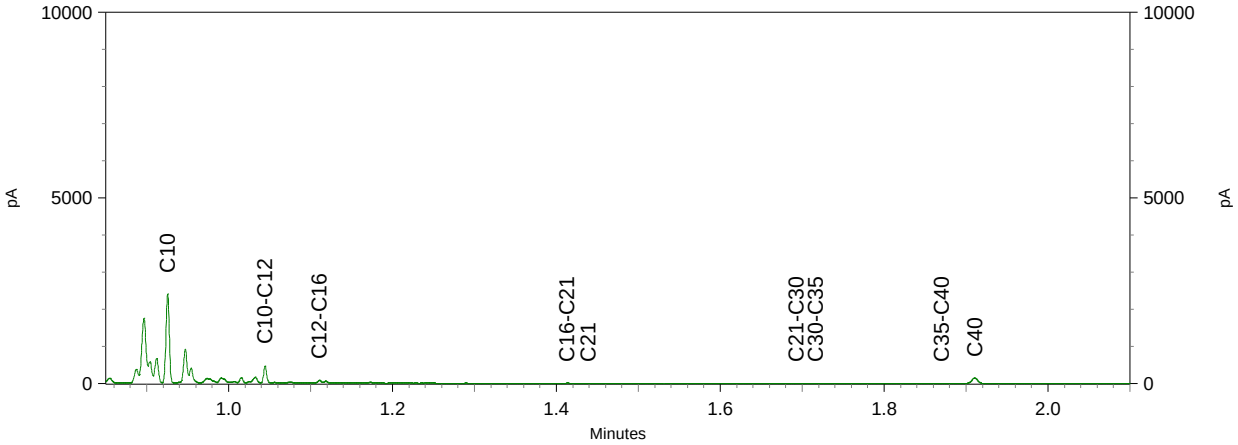


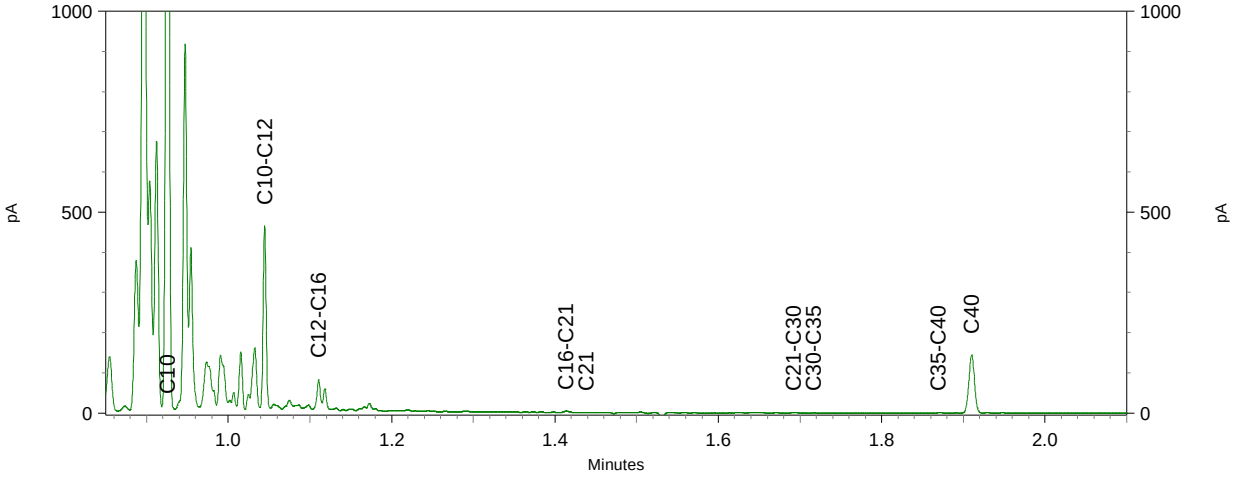


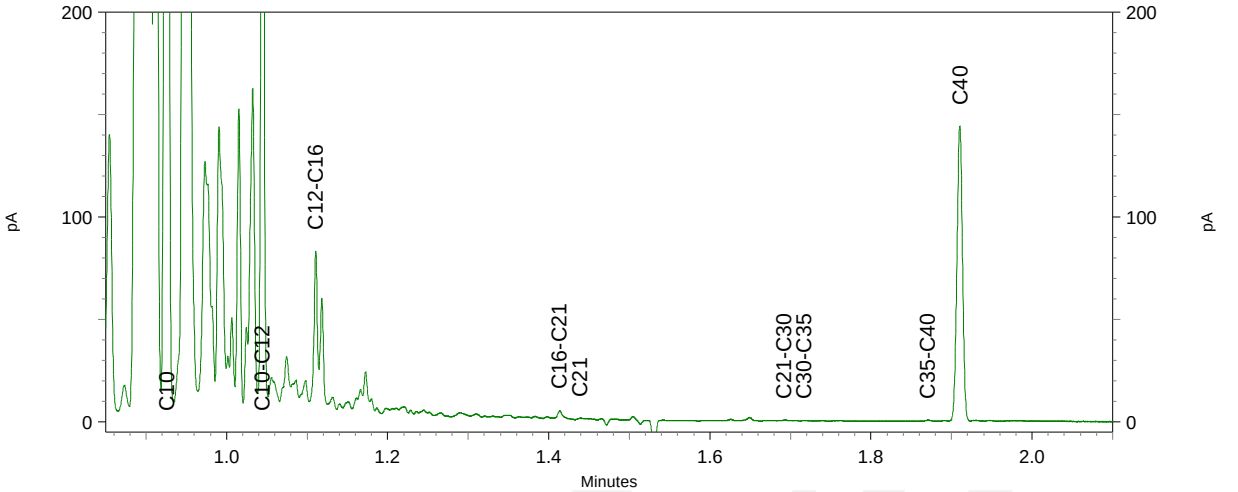


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734650
Certificate no.: 2020191944
Sample description.: 7M
V







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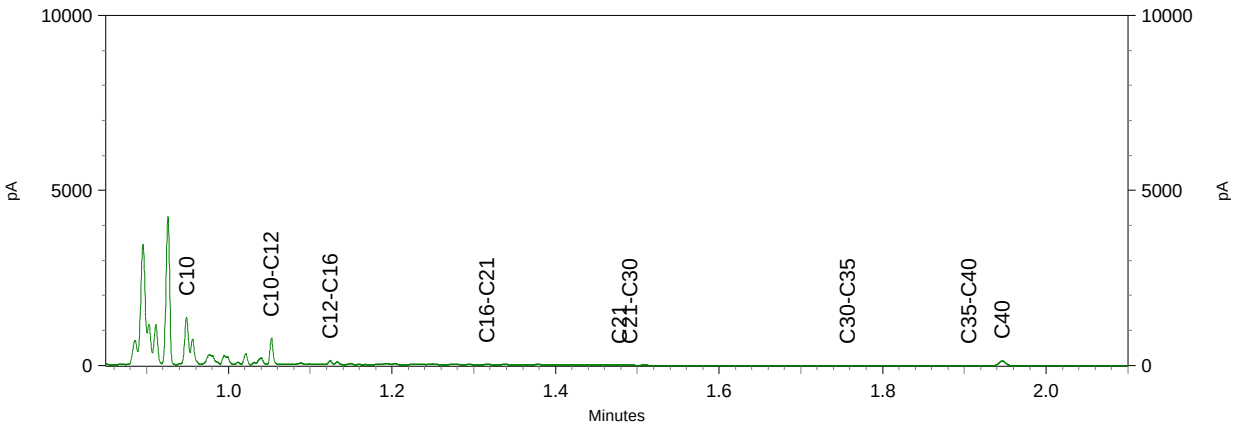
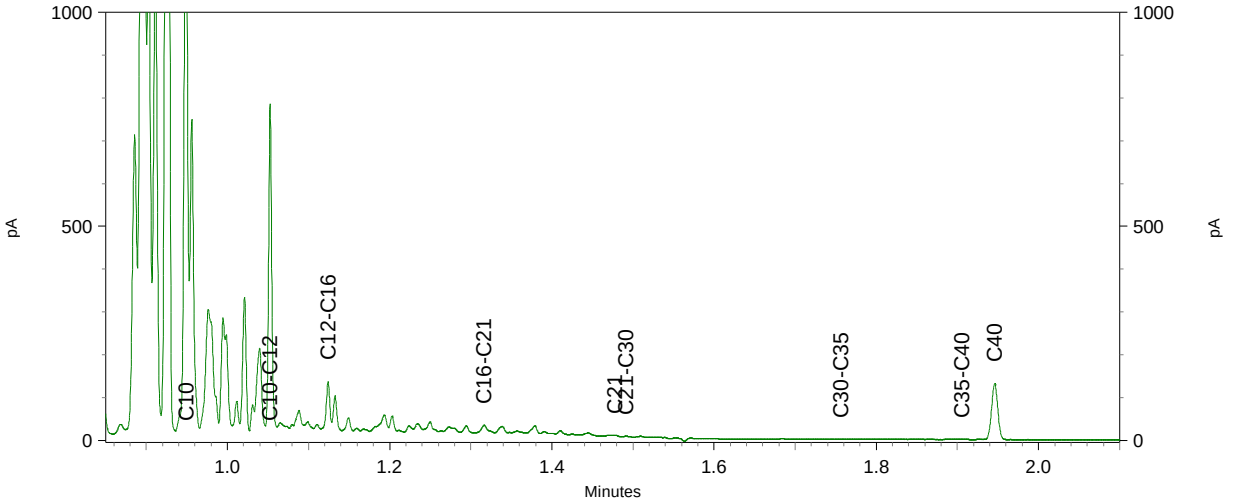
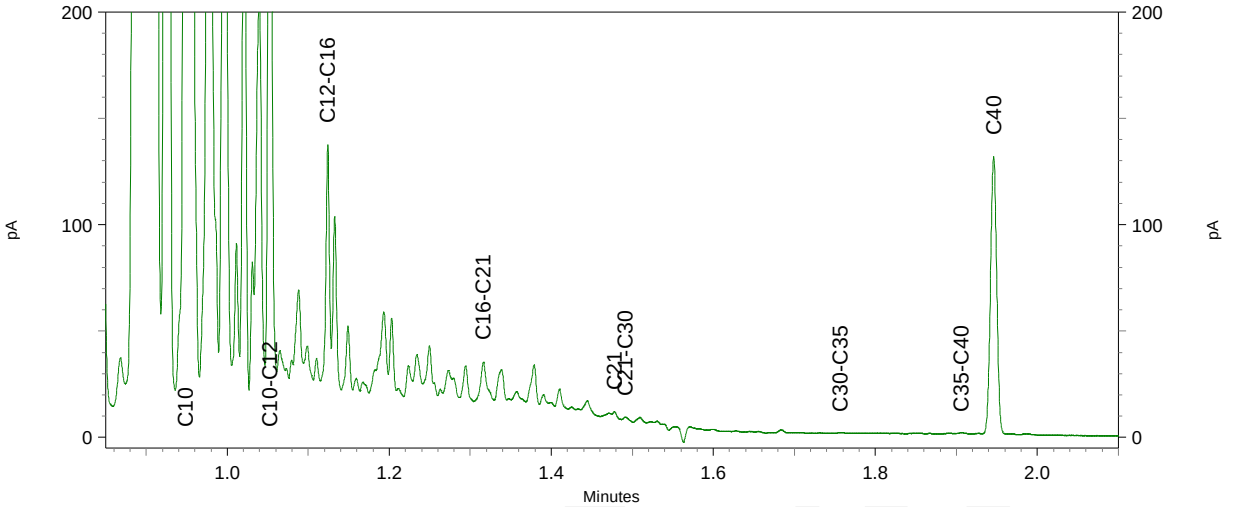
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734651
Certificate no.: 2020191944
Sample description.: VE14
V

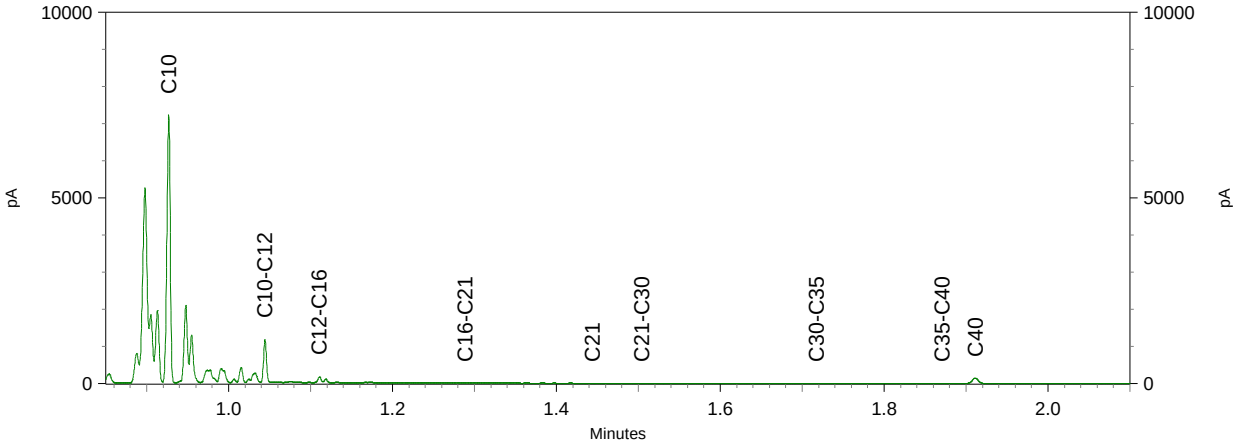


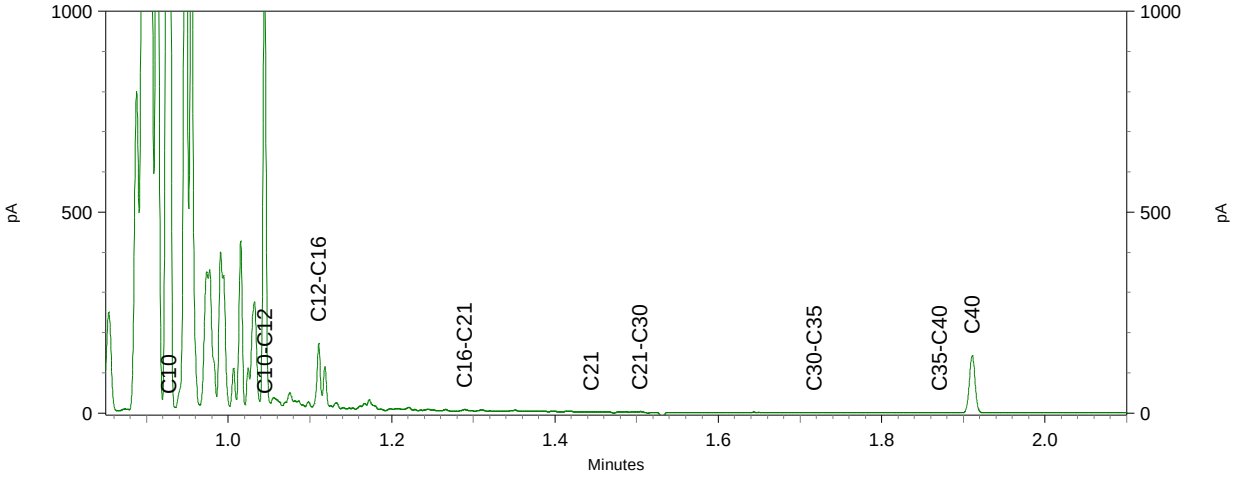


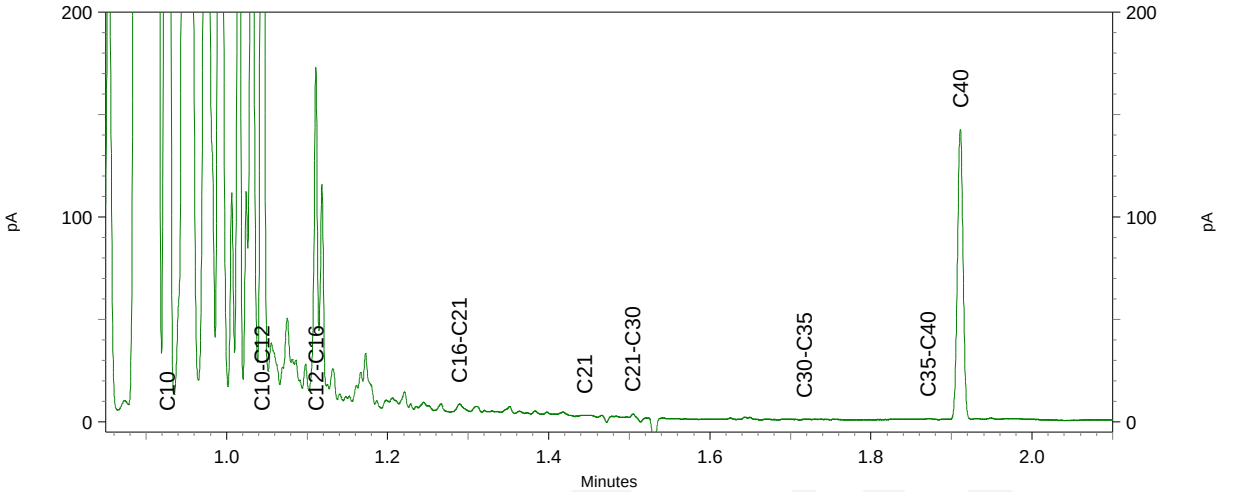


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734652
Certificate no.: 2020191944
Sample description.: VE11
V

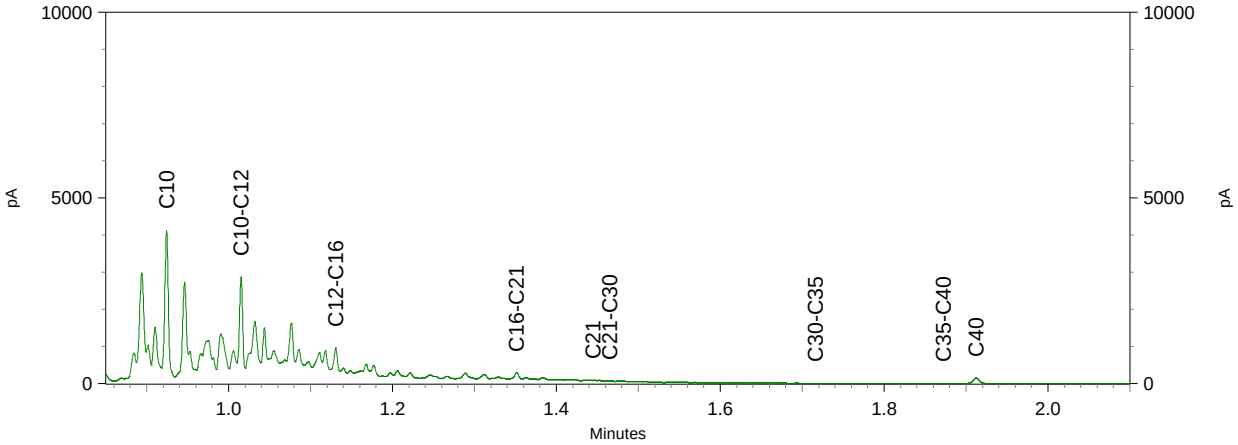


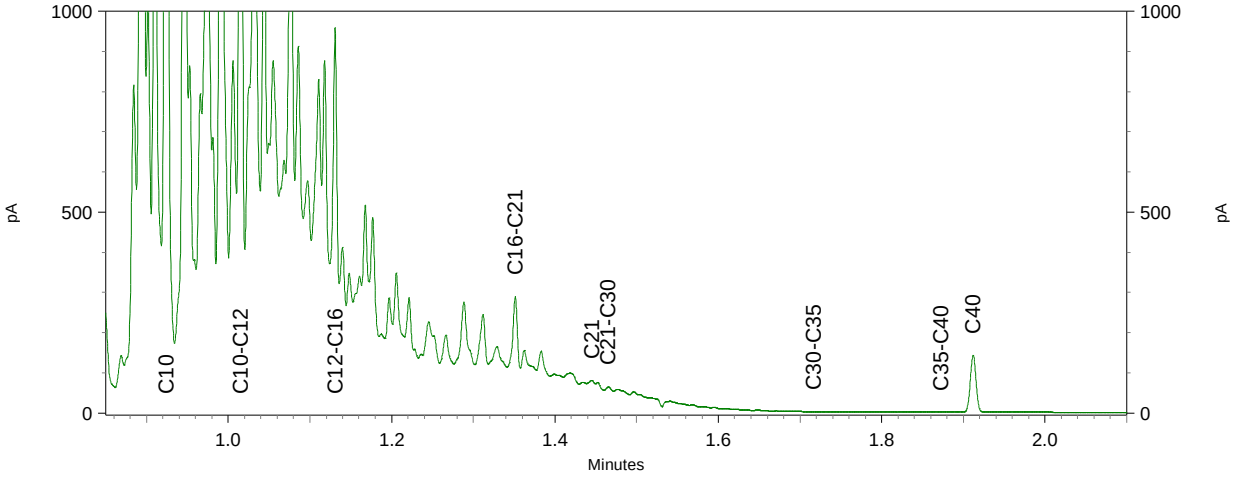


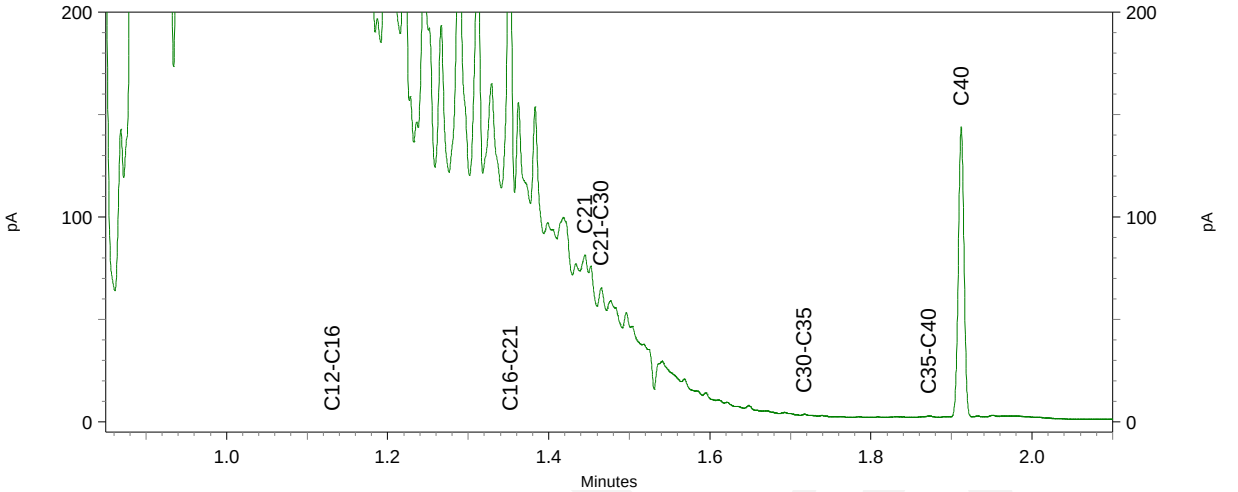


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734653
Certificate no.: 2020191944
Sample description.: VE13
V

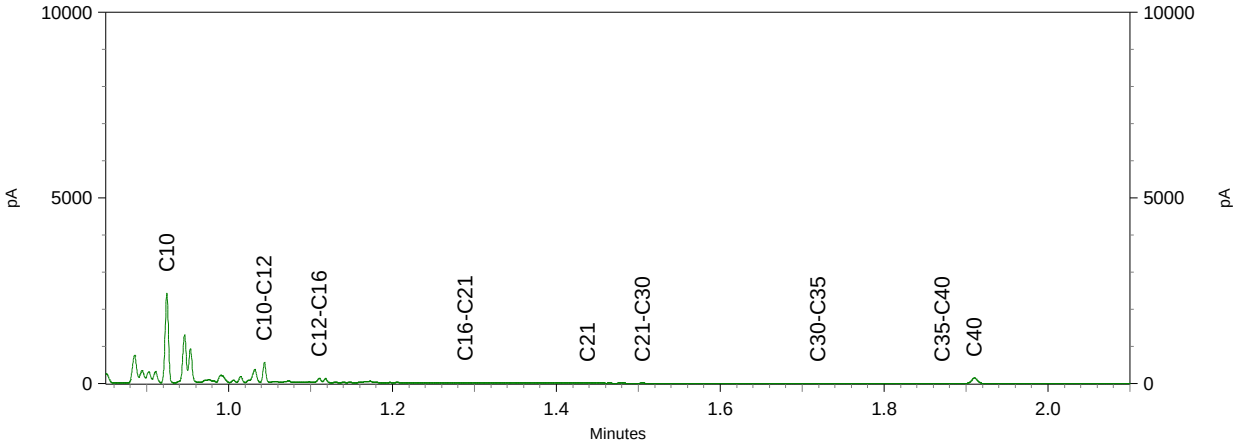


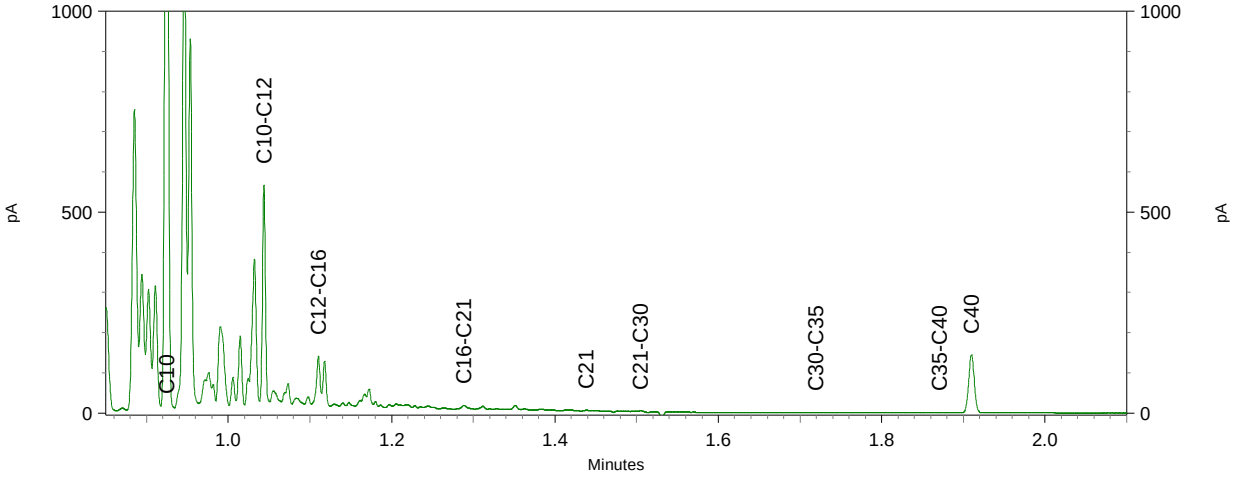


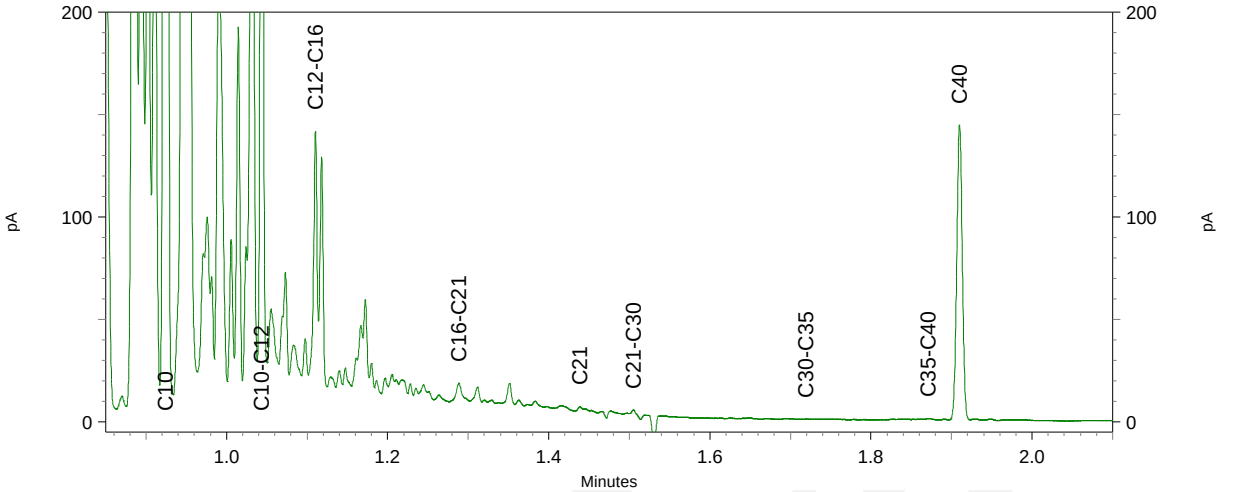


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734654
Certificate no.: 2020191944
Sample description.: VE12
V

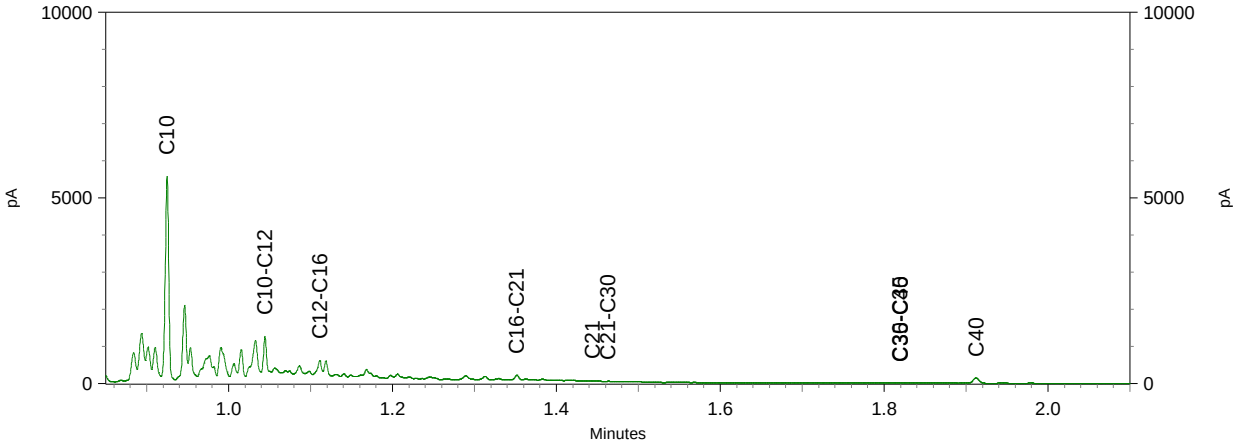


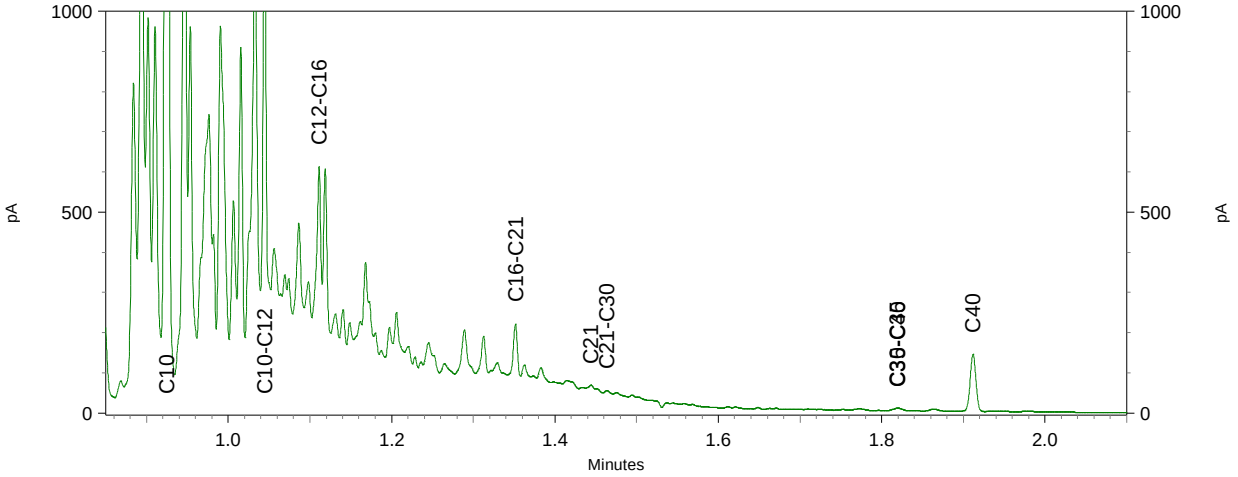


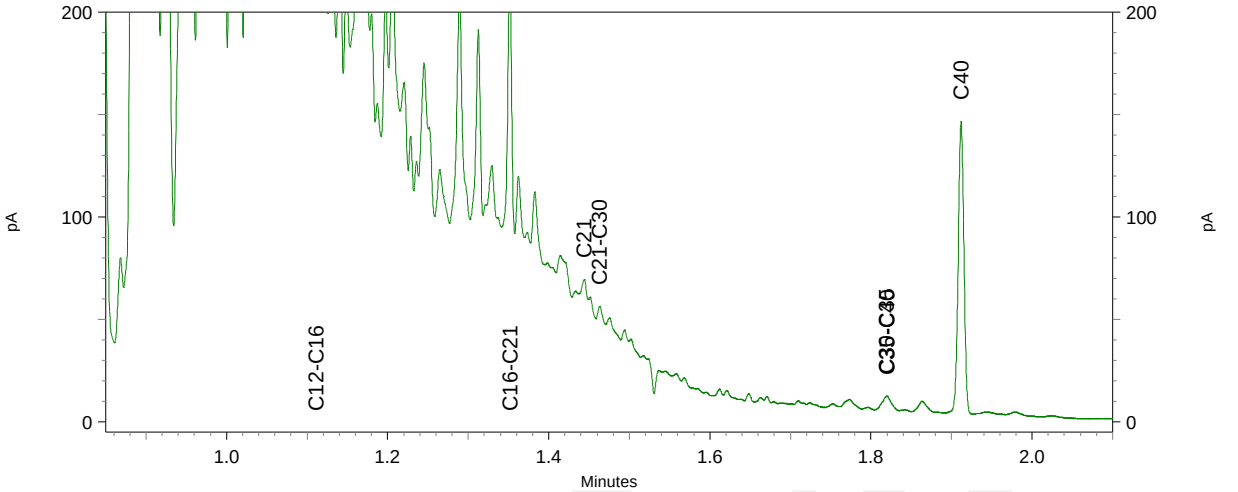


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734655
Certificate no.: 2020191944
Sample description.: M4
V

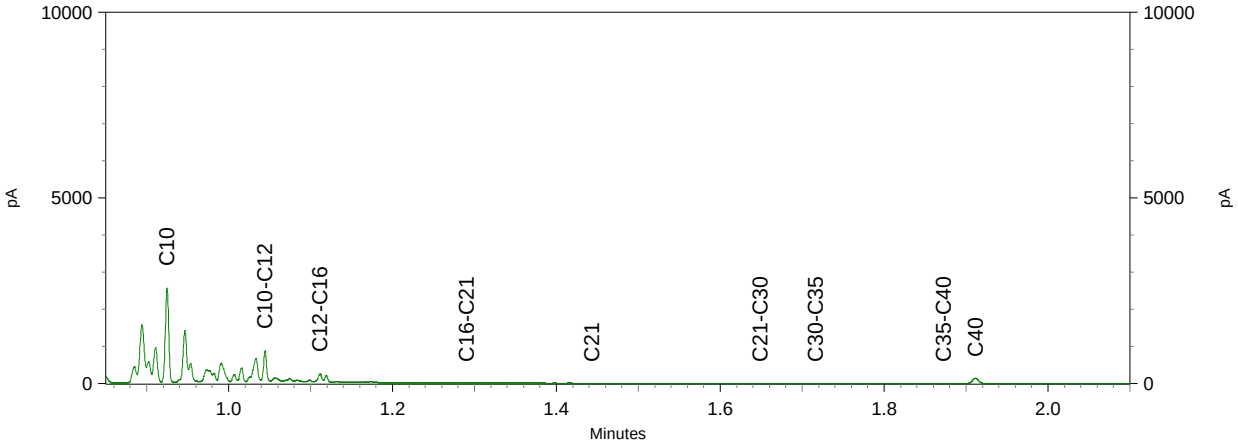


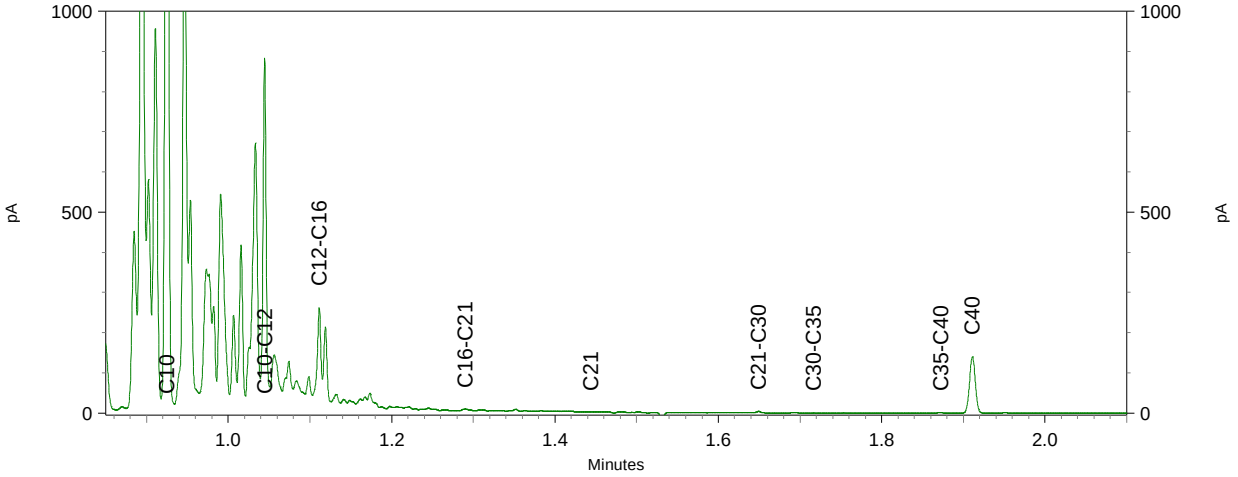


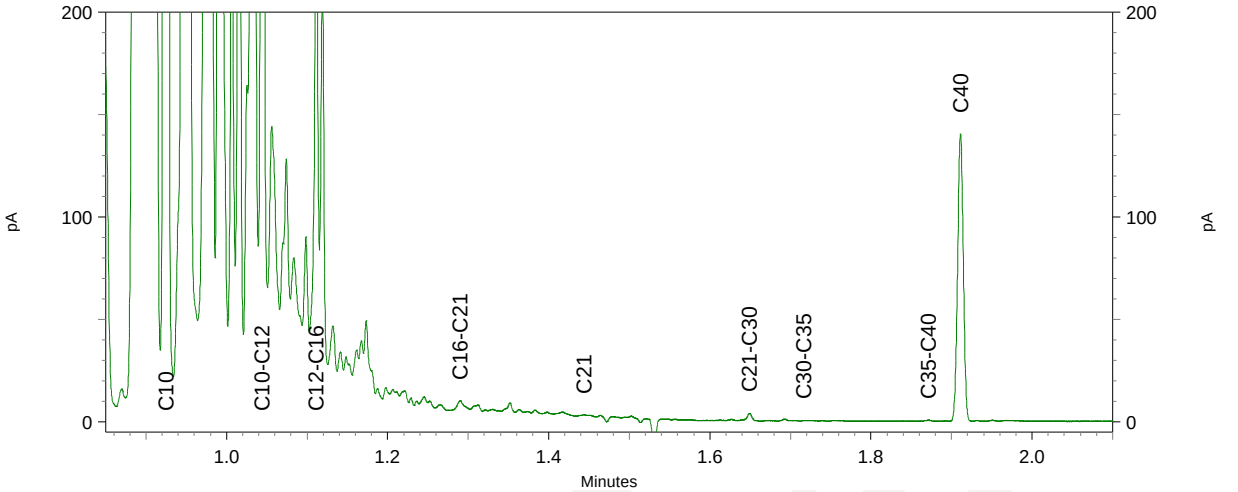


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734656
Certificate no.: 2020191944
Sample description.: VE27
V







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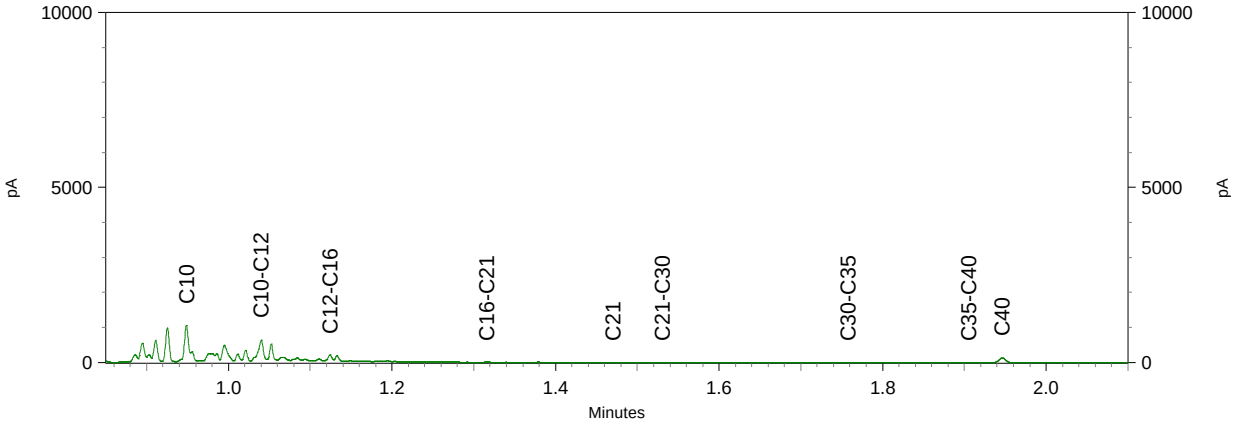
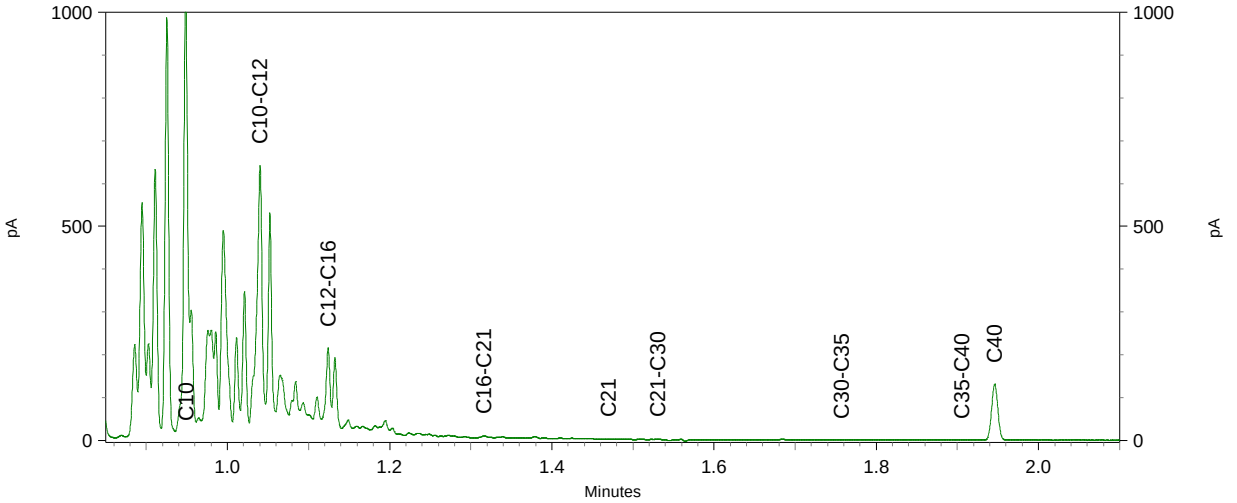
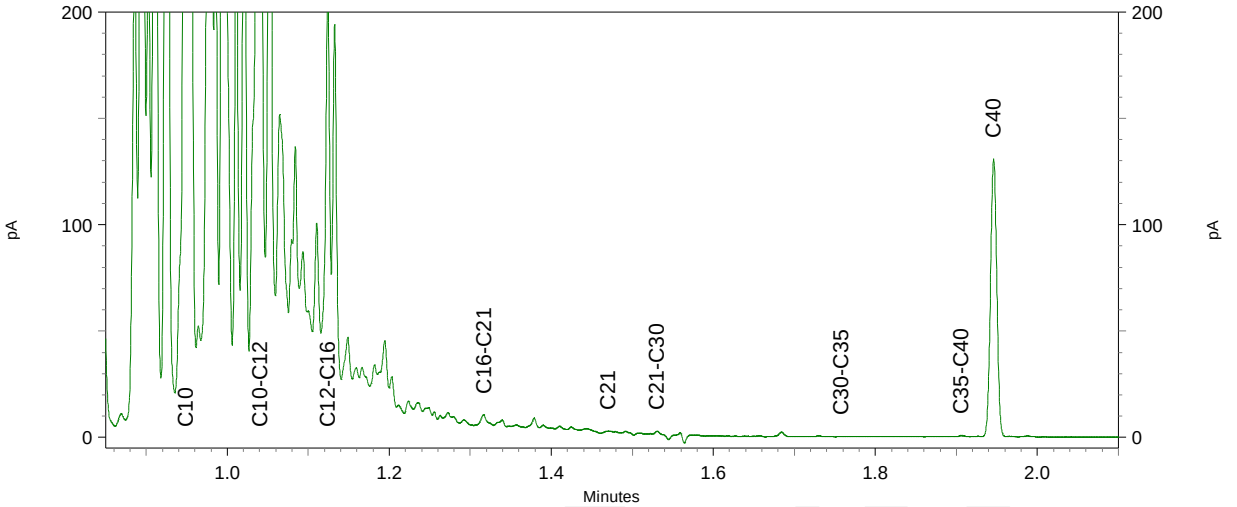
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734657
Certificate no.: 2020191944
Sample description.: VE19
V

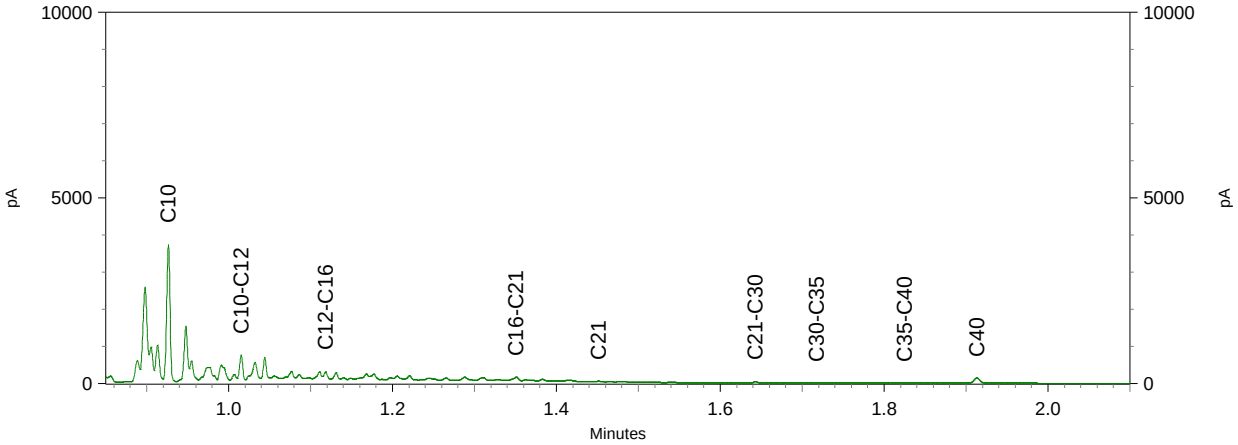


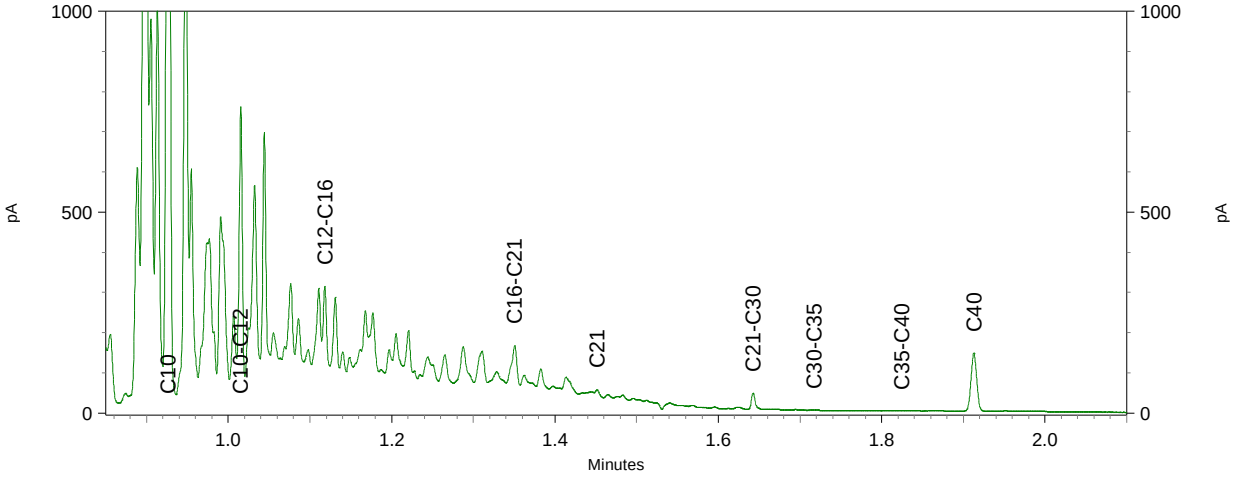


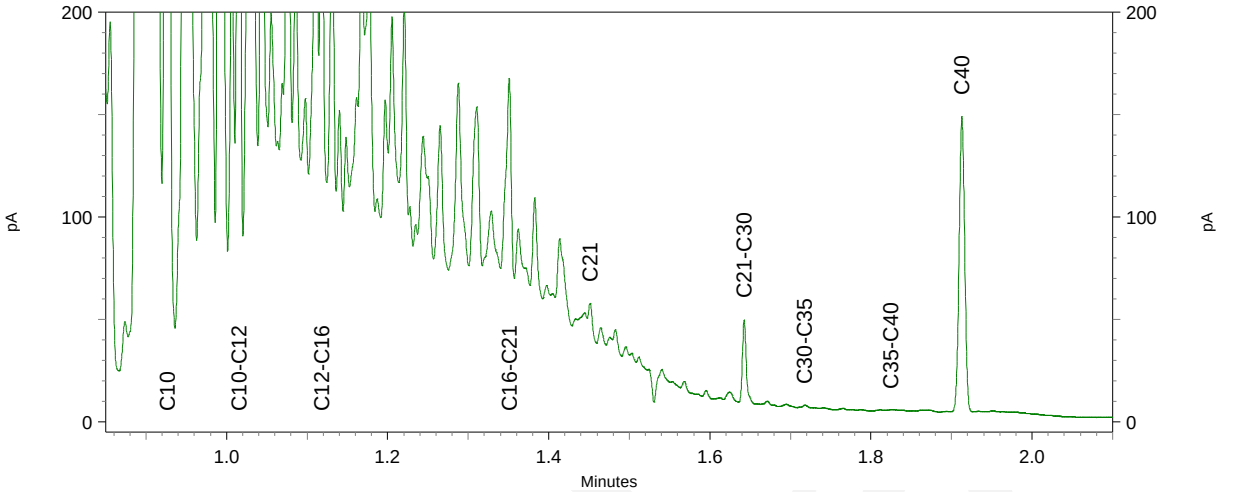


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734658
Certificate no.: 2020191944
Sample description.: 2ve
V

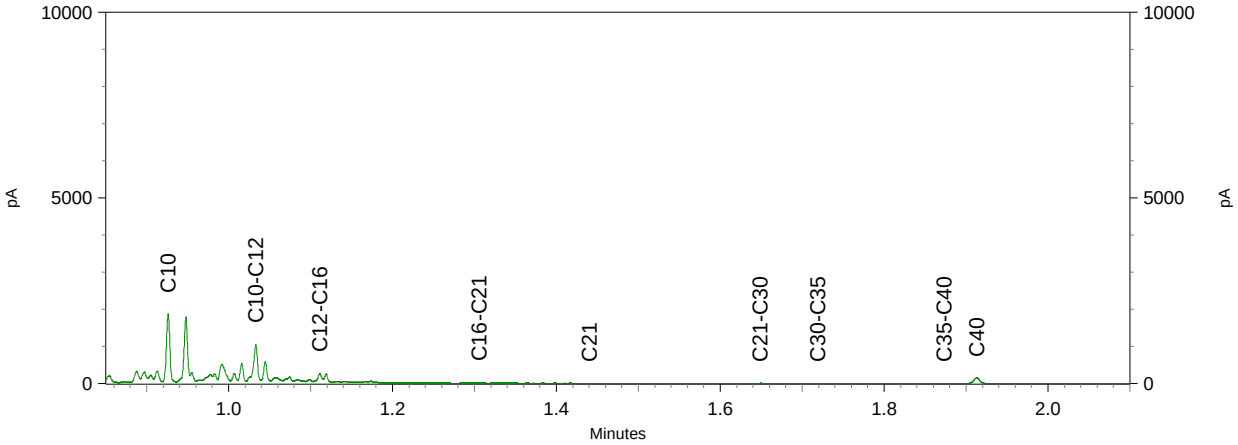


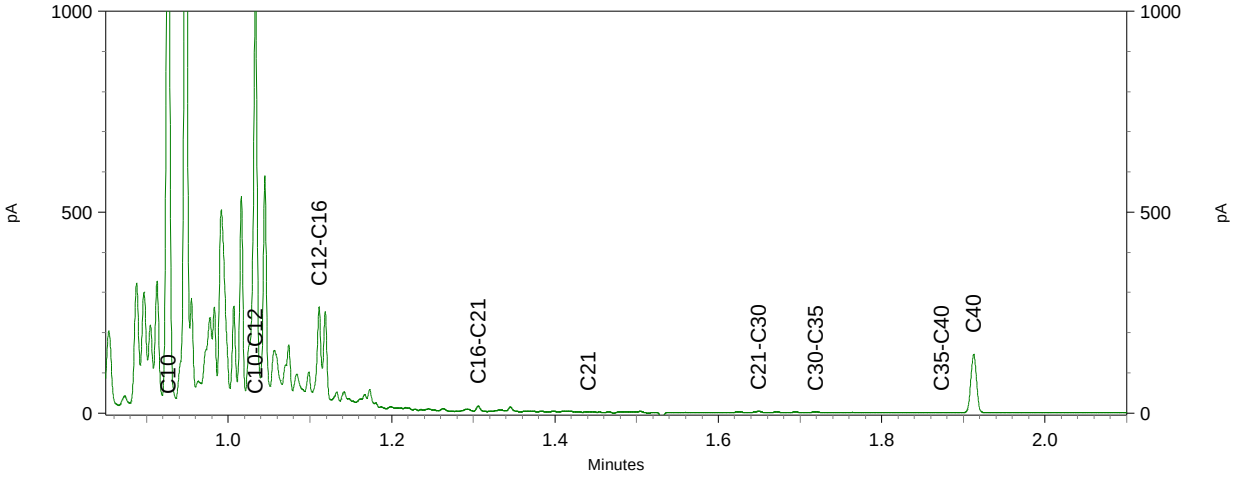


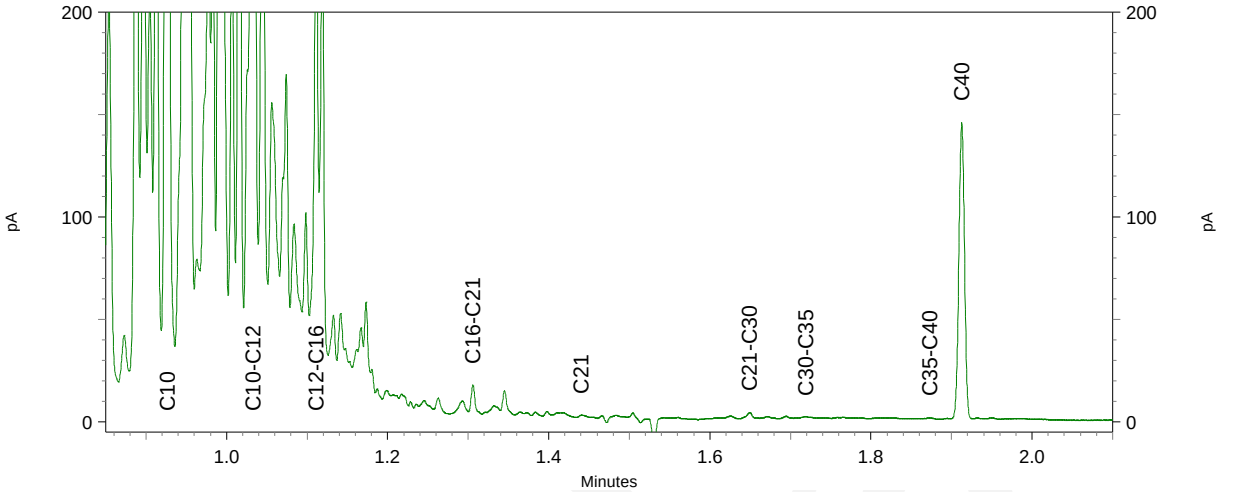


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734659
Certificate no.: 2020191944
Sample description.: 5M
V

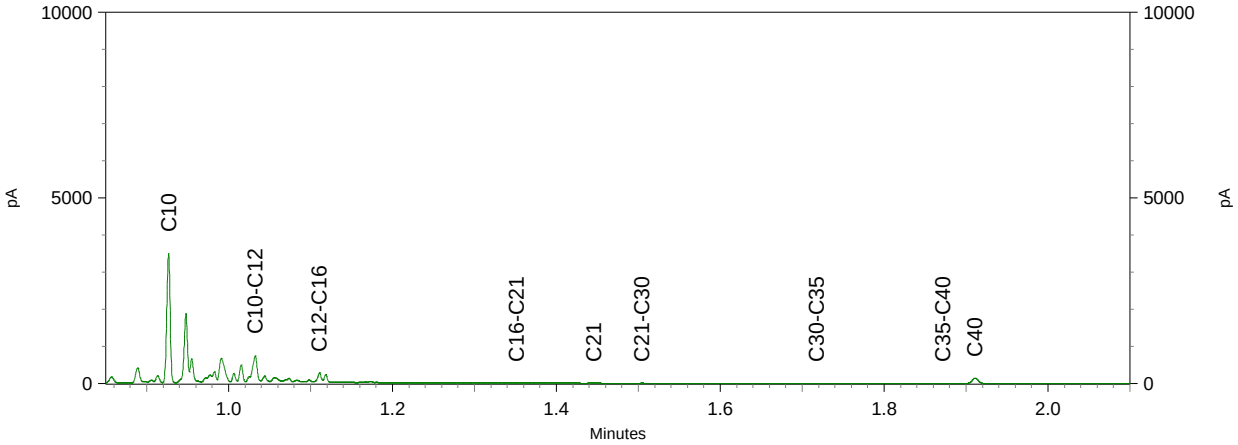


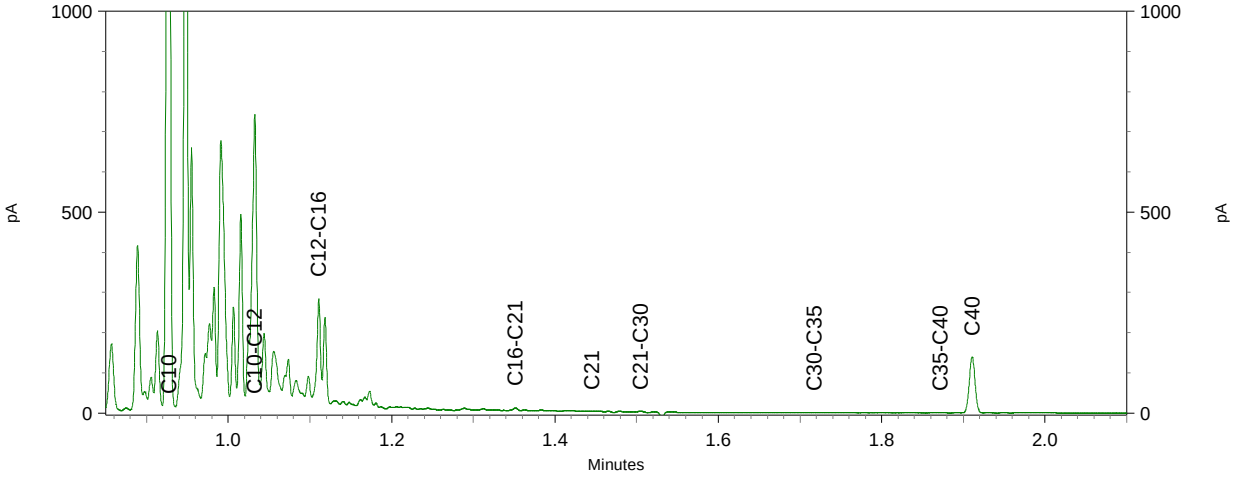


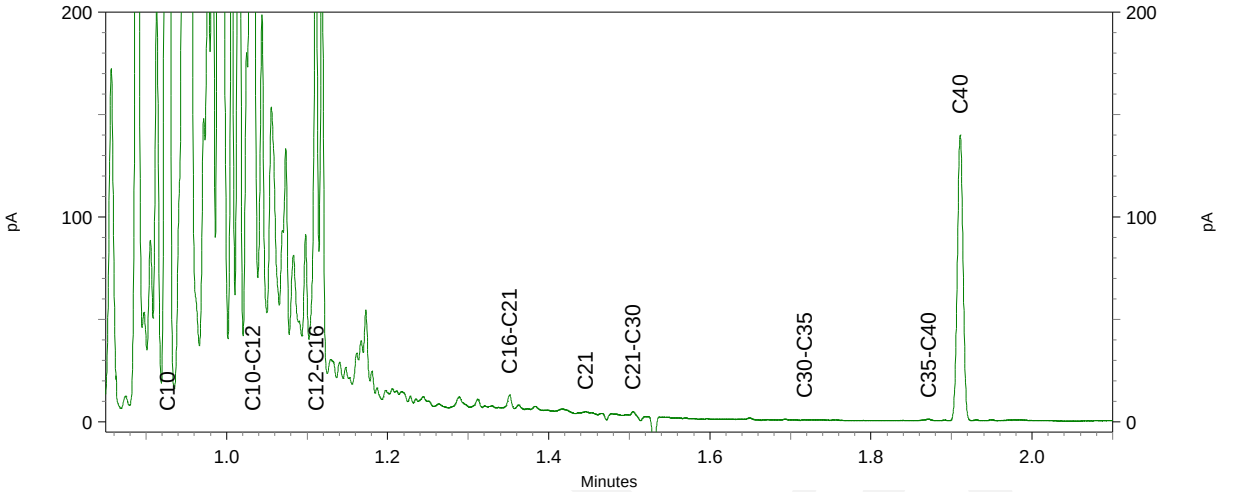


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734660
Certificate no.: 2020191944
Sample description.: VE8
V







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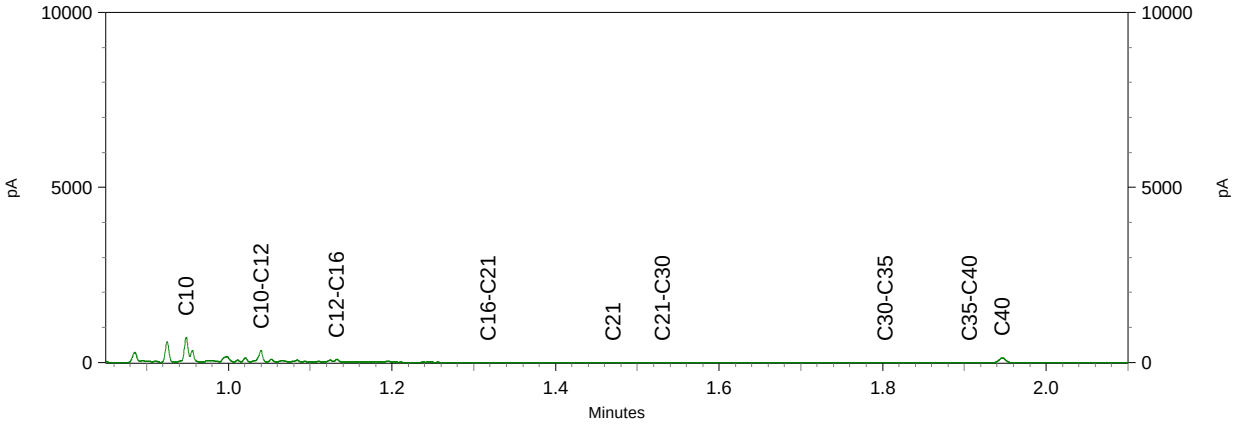
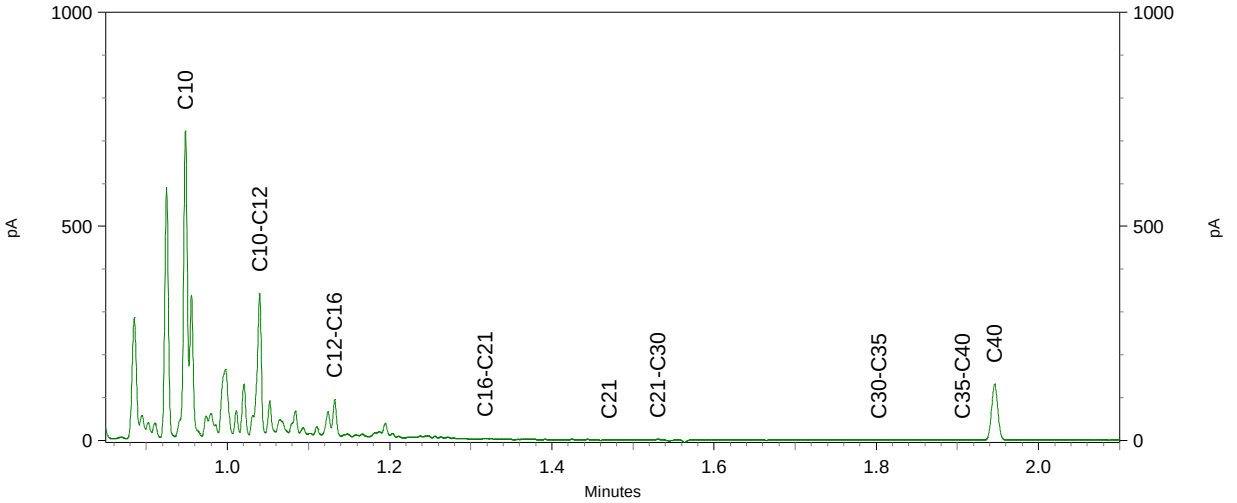
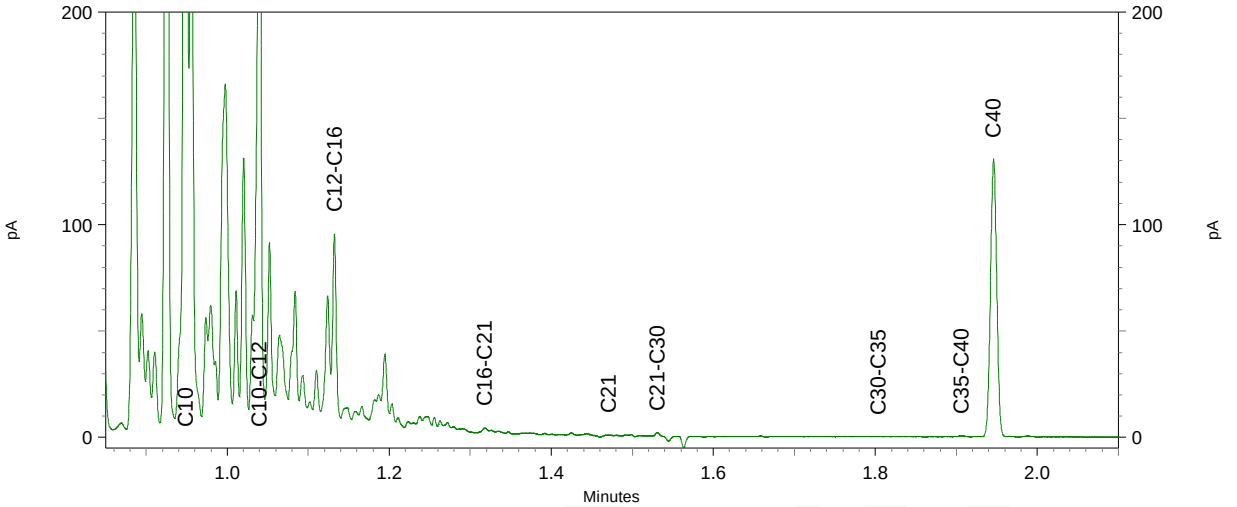
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734661
Certificate no.: 2020191944
Sample description.: VE7
V

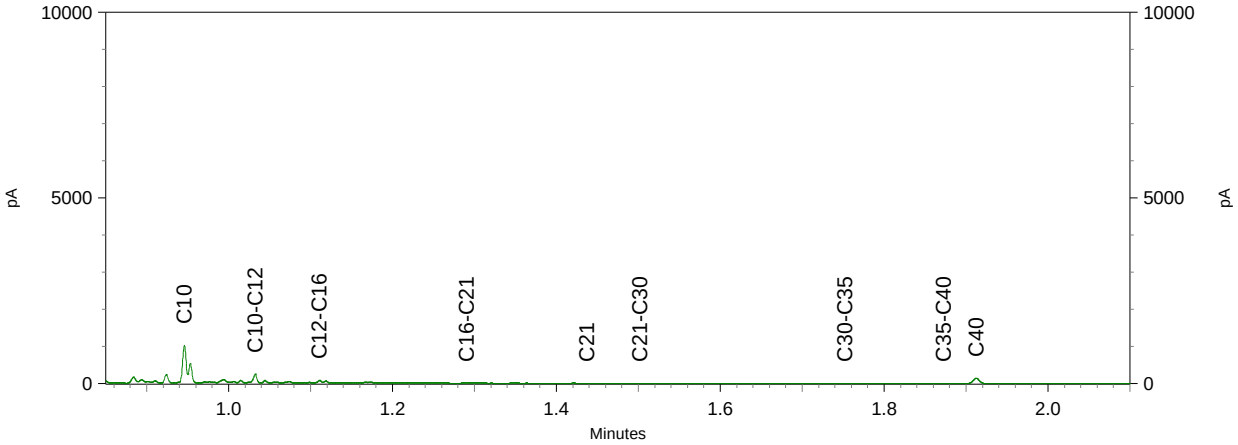


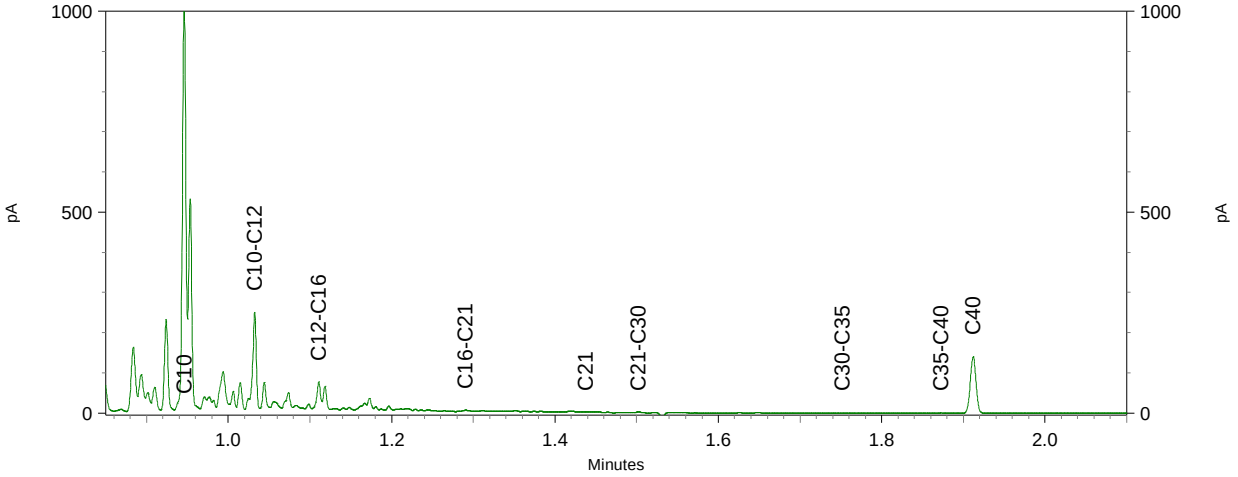


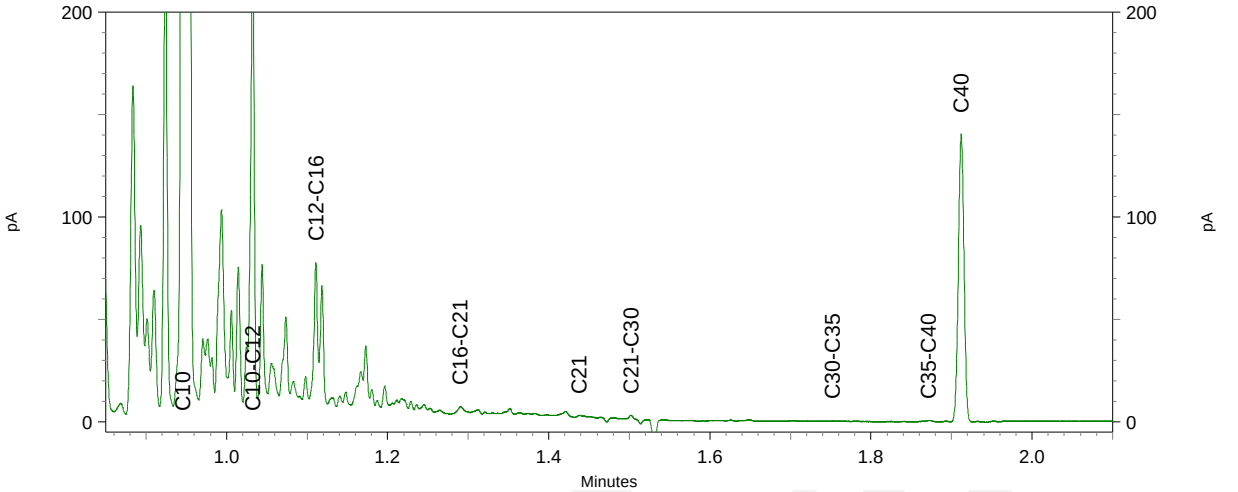


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734662
Certificate no.: 2020191944
Sample description.: 20a
V

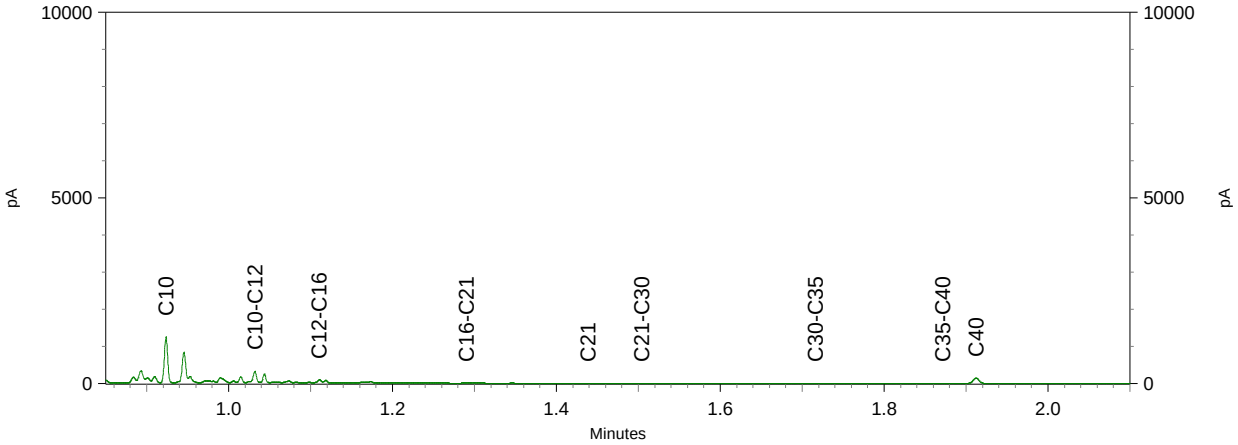


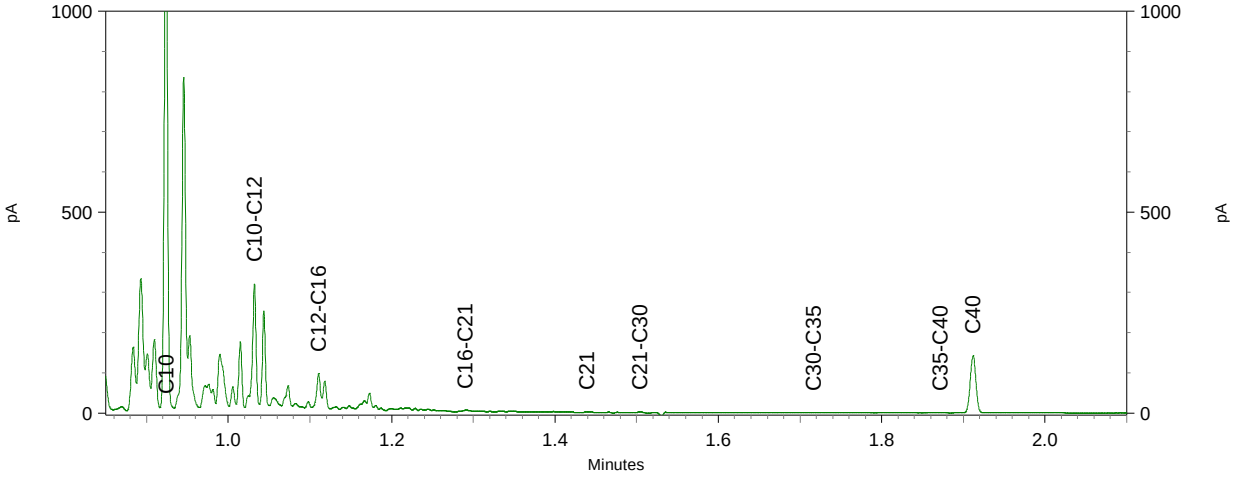


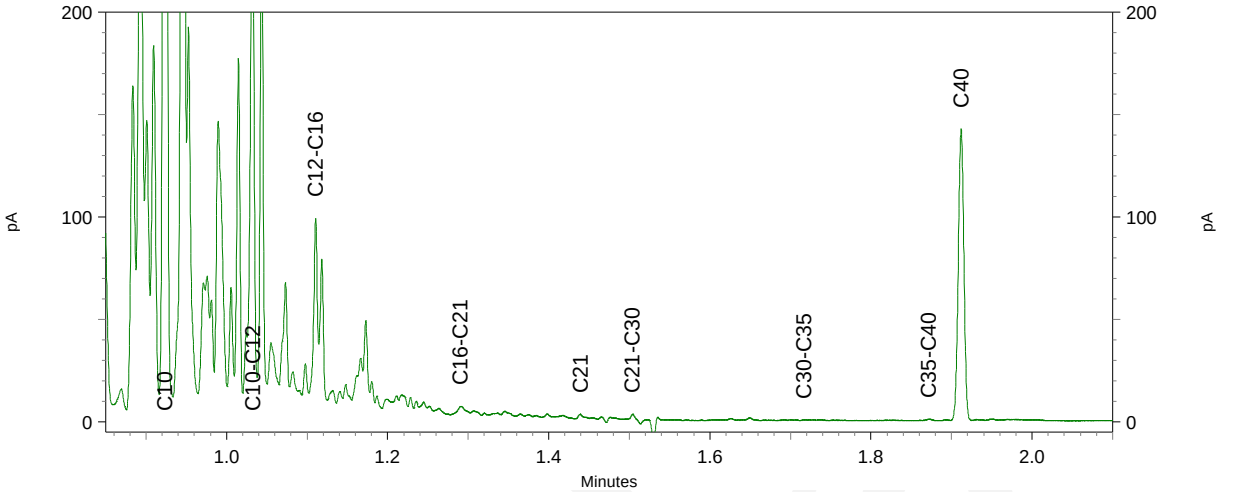


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734663
Certificate no.: 2020191944
Sample description.: 3
V

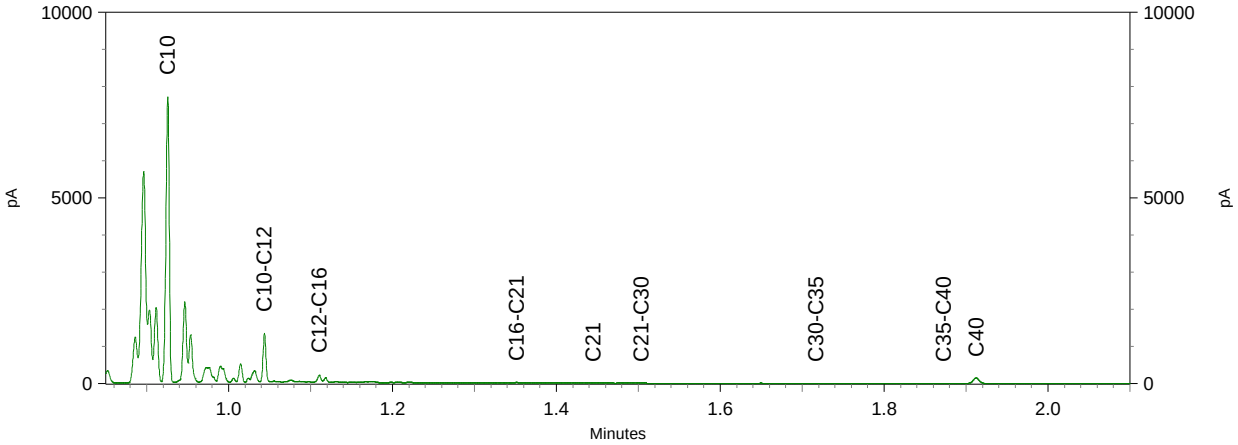


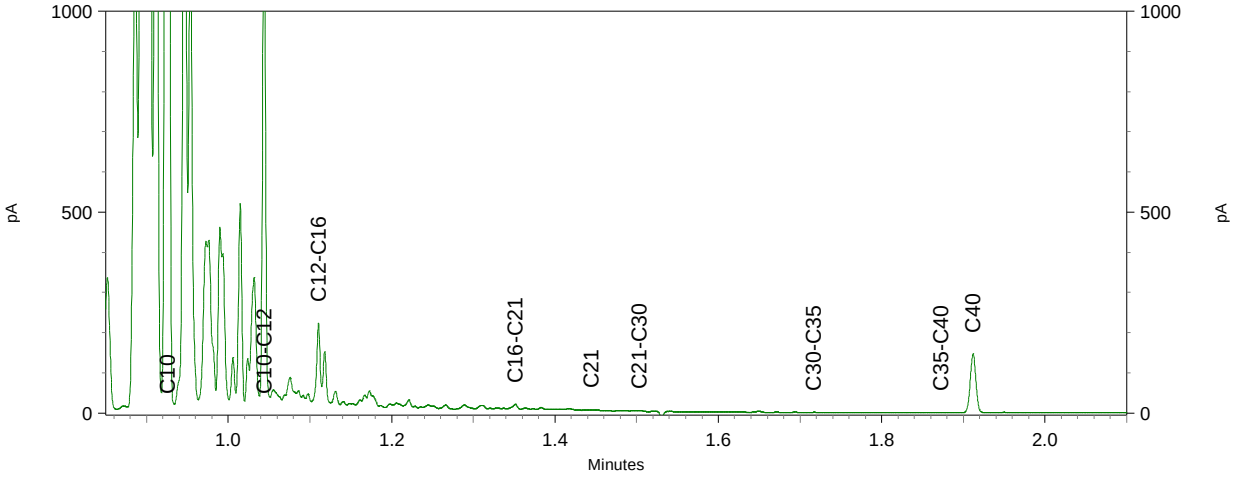


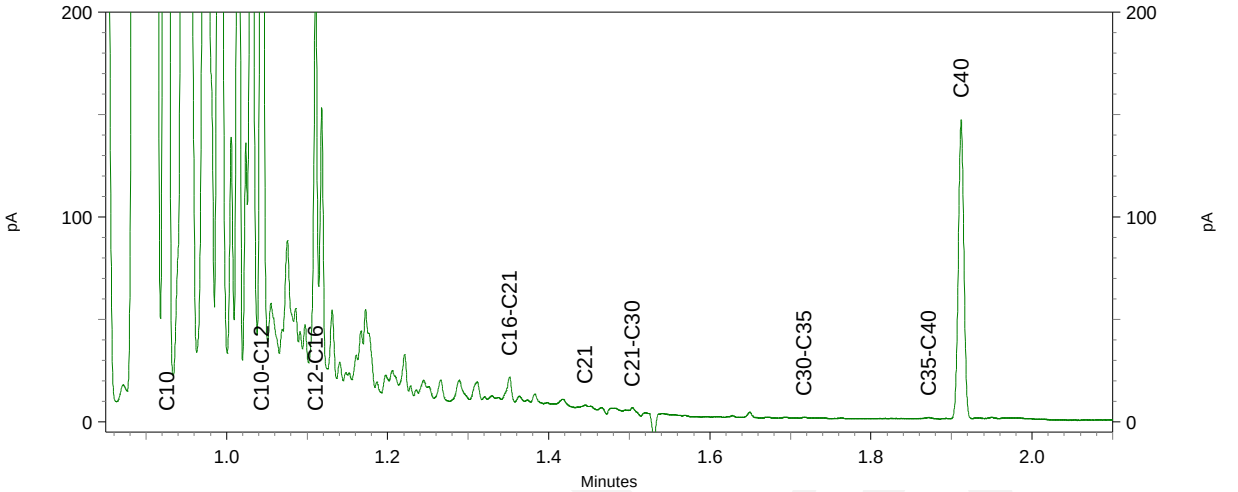


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734664
Certificate no.: 2020191944
Sample description.: VE24
V

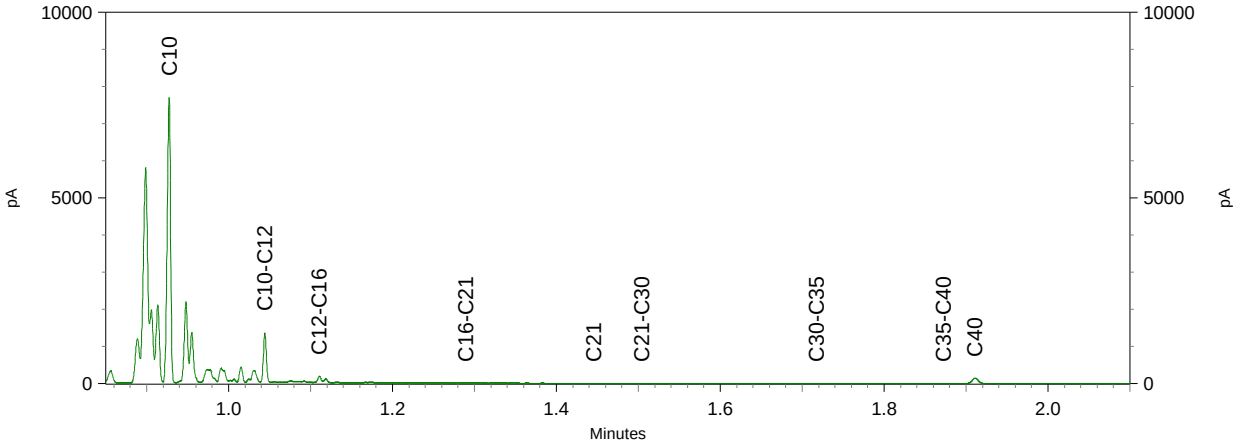


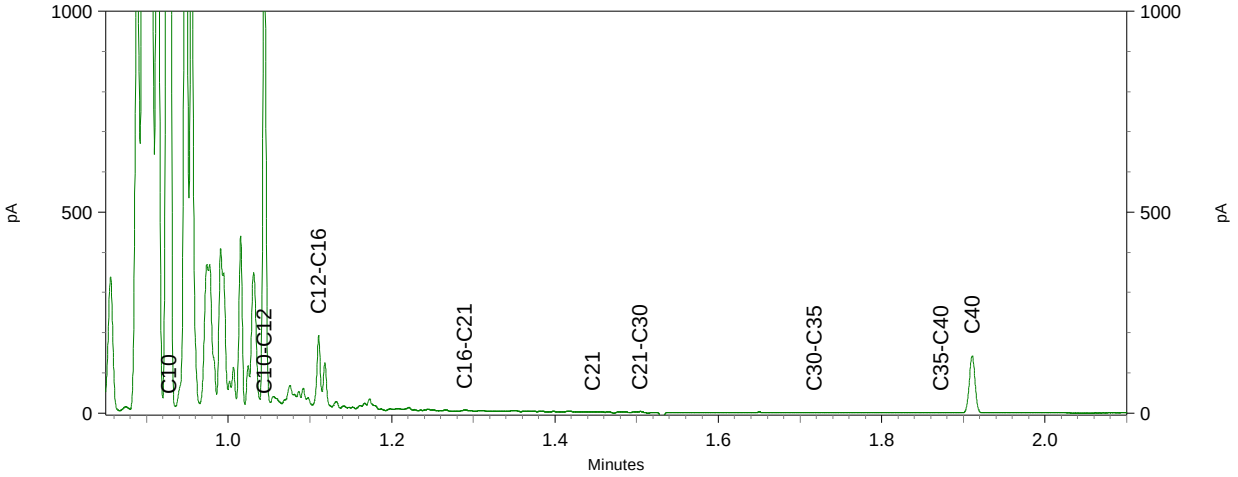


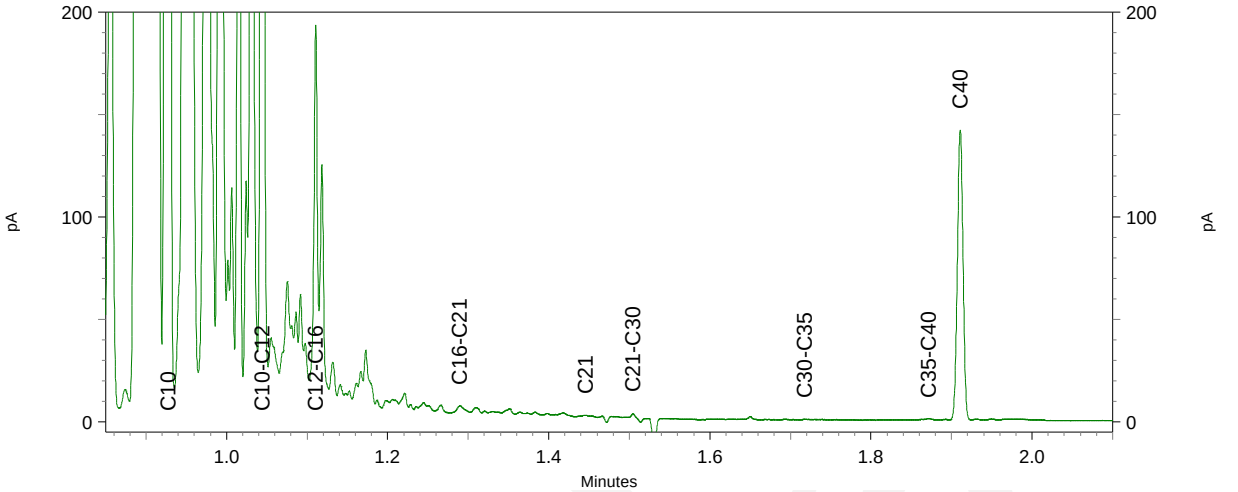


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734665
Certificate no.: 2020191944
Sample description.: VE25
V

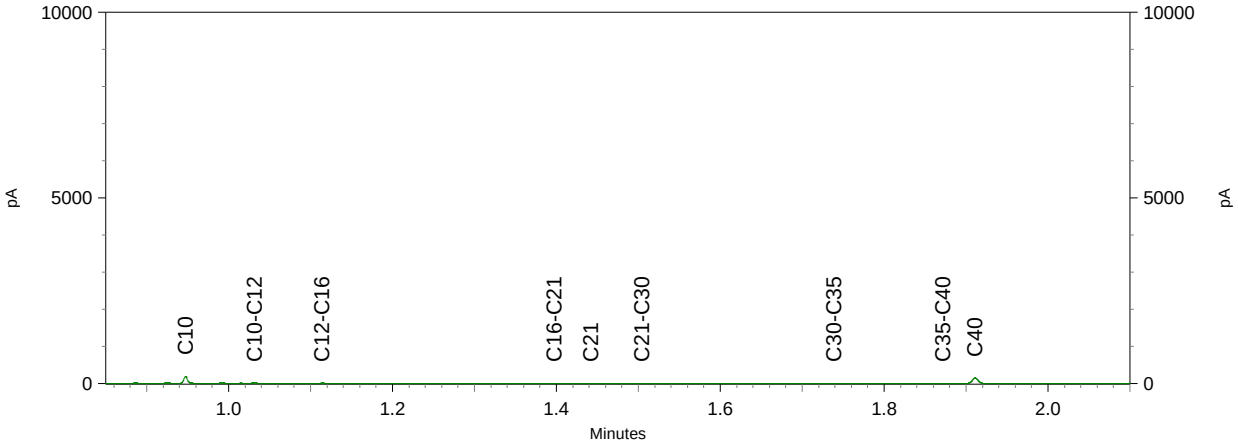


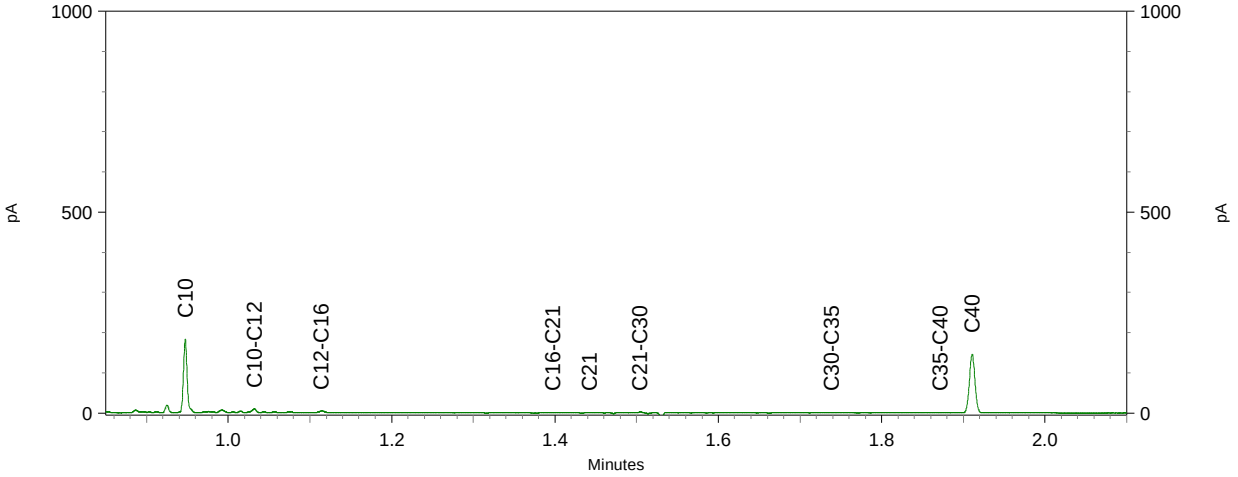


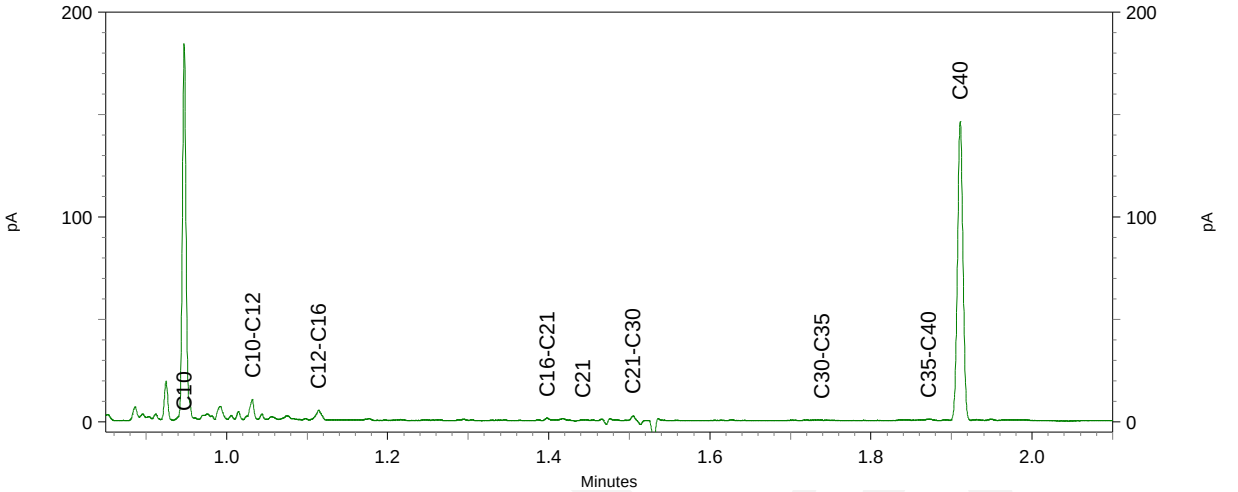


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734666
Certificate no.: 2020191944
Sample description.: VE26
V

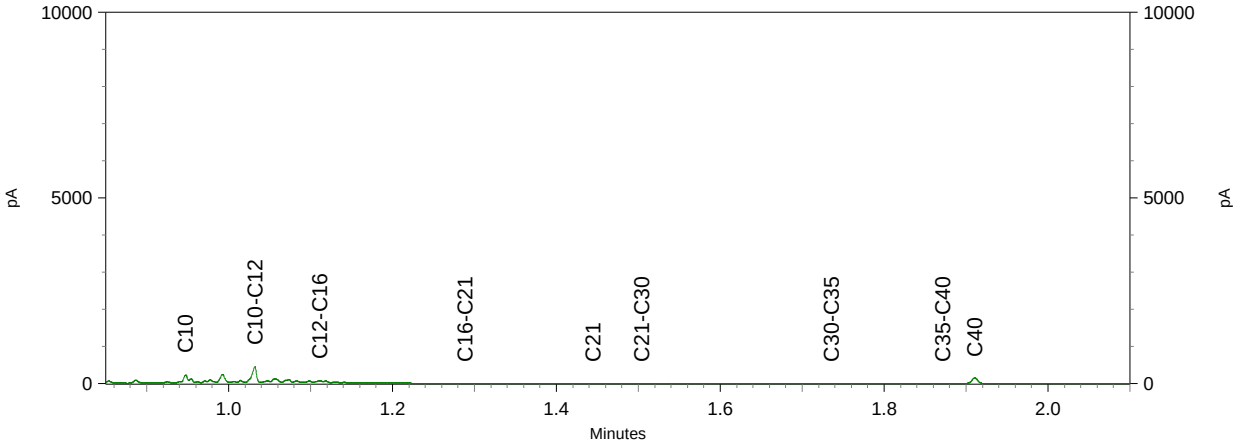


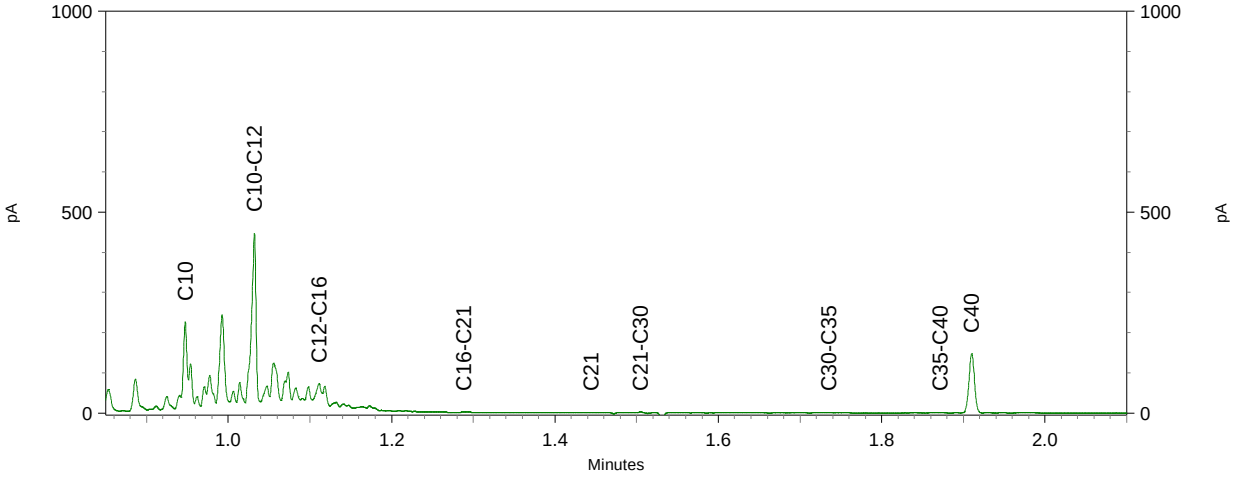


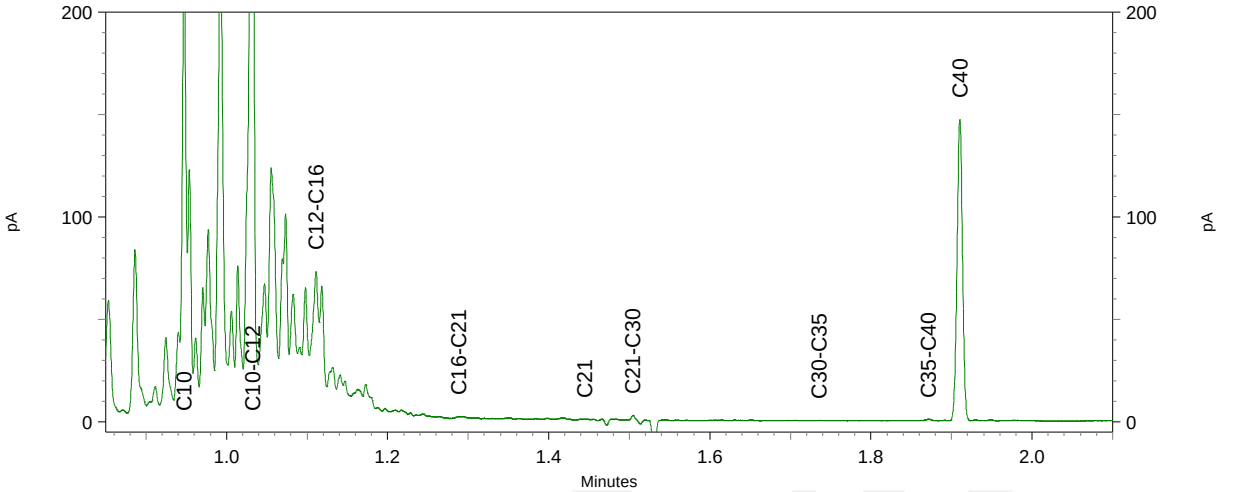


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734667
Certificate no.: 2020191944
Sample description.: 77
V

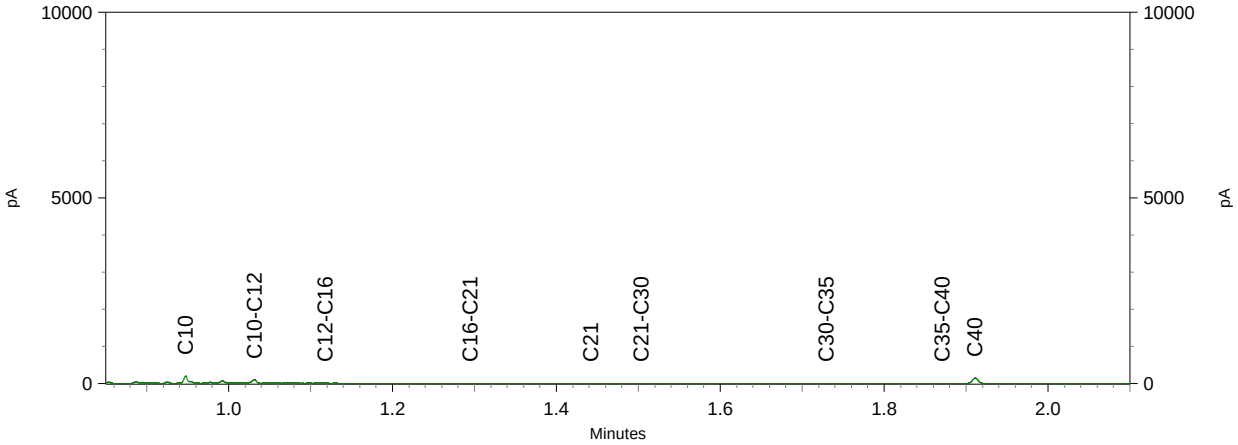


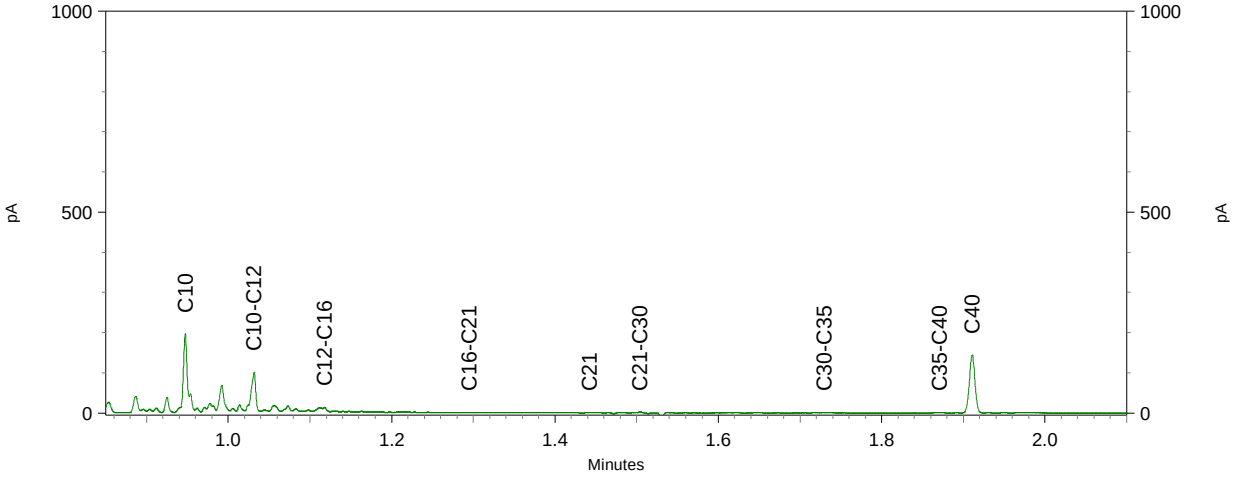


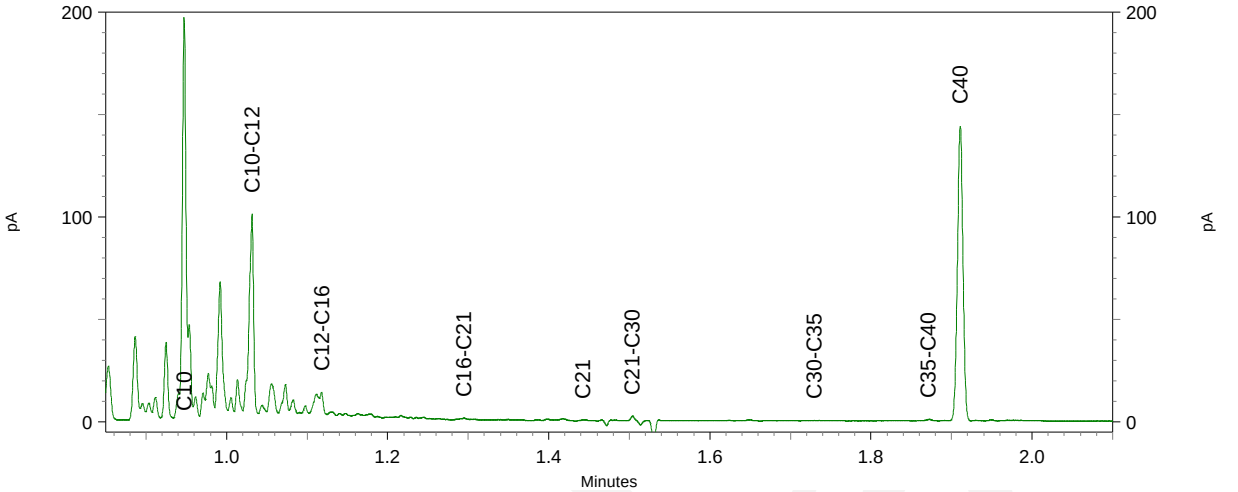


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734668
Certificate no.: 2020191944
Sample description.: 71
V

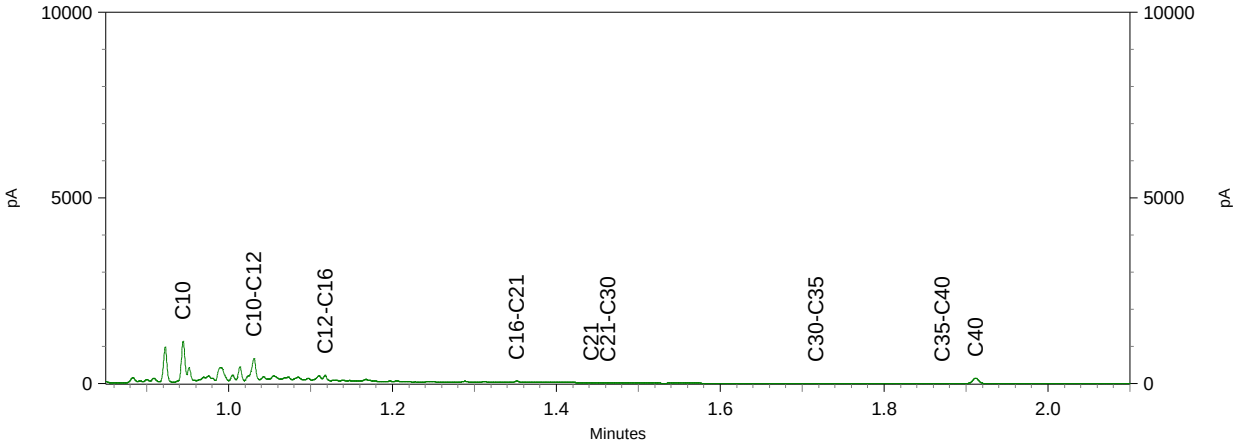


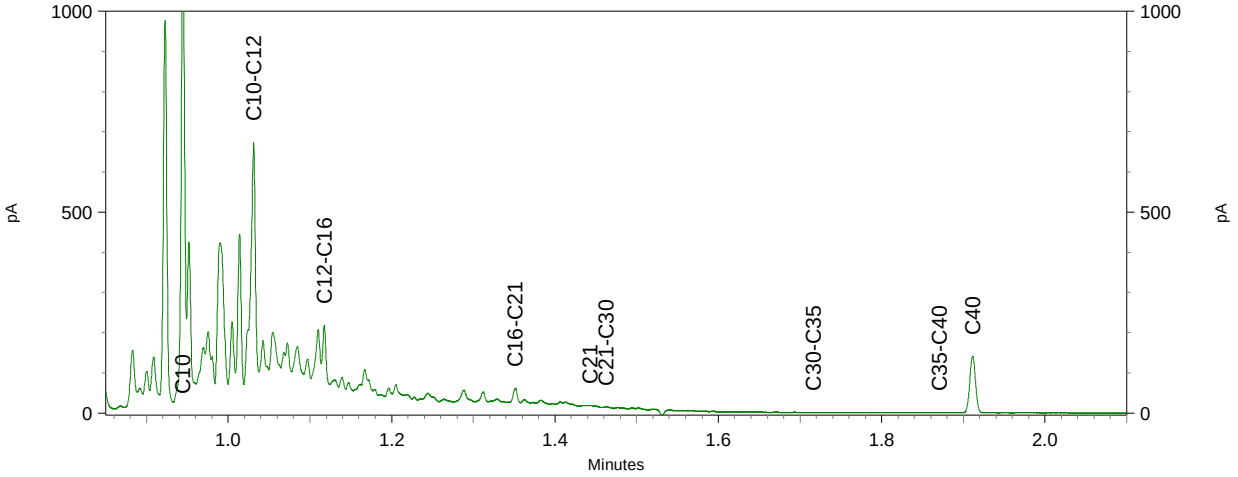


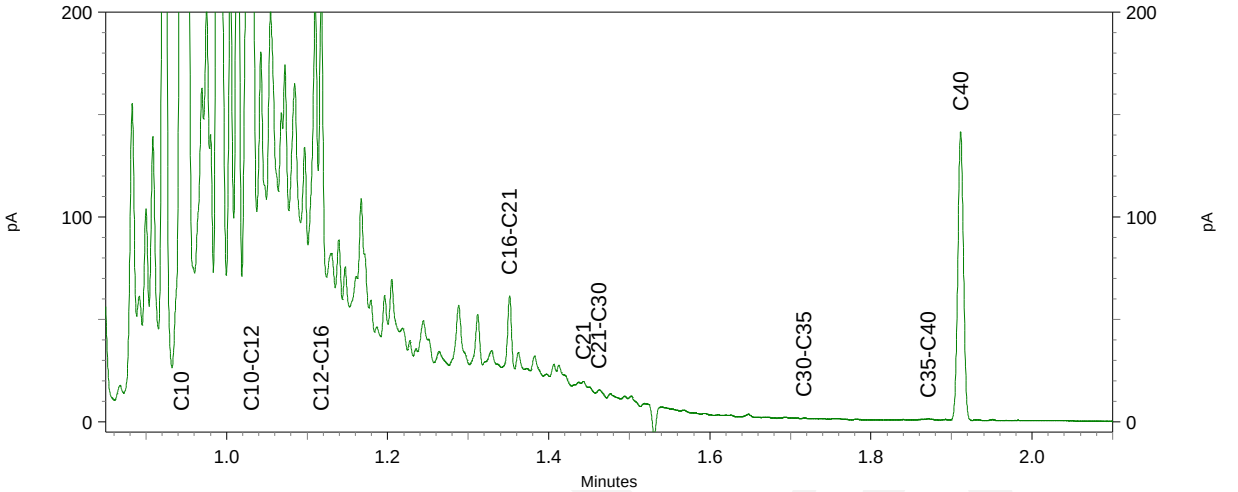


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734669
Certificate no.: 2020191944
Sample description.: 70
V

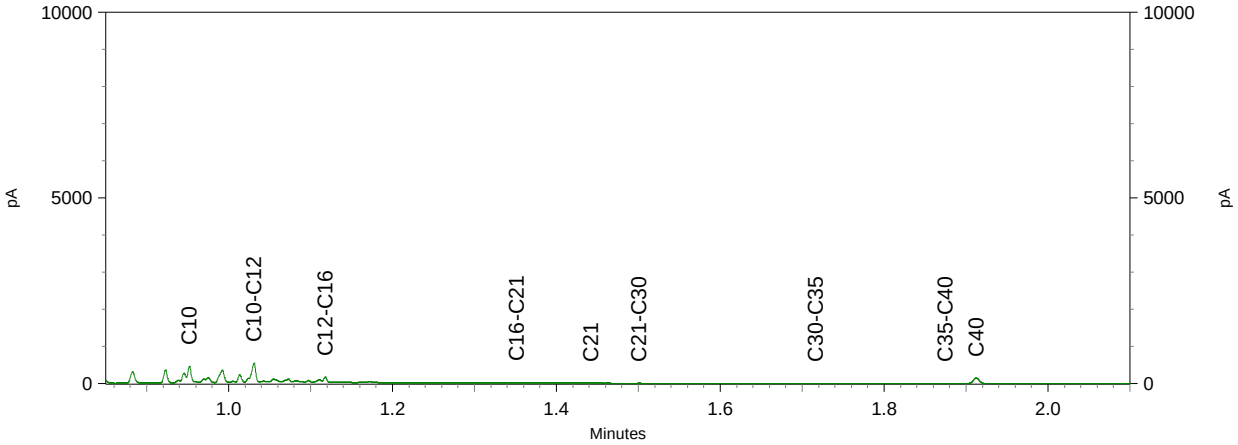


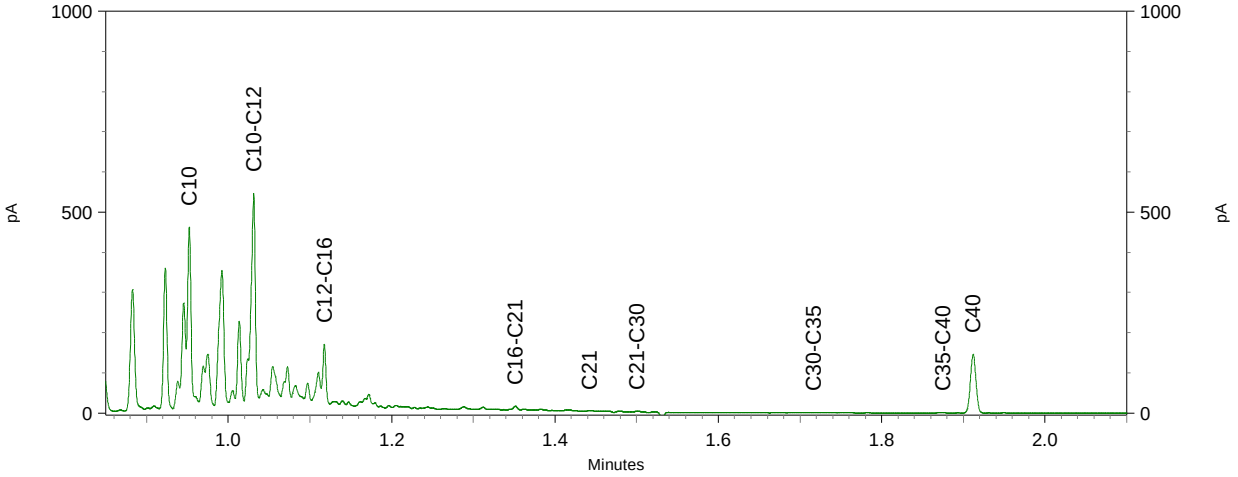


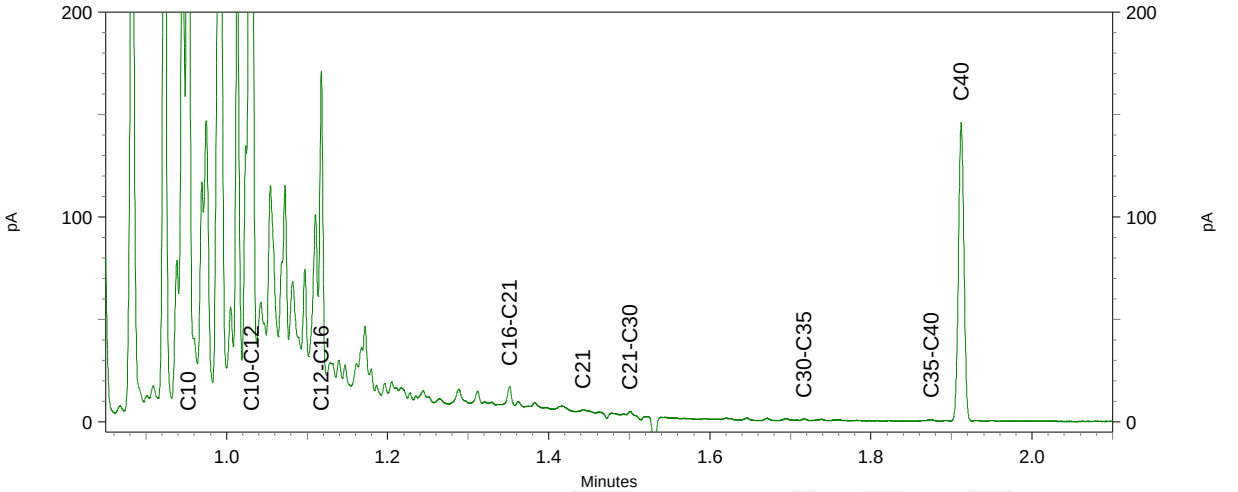


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734670
Certificate no.: 2020191944
Sample description.: 67
V

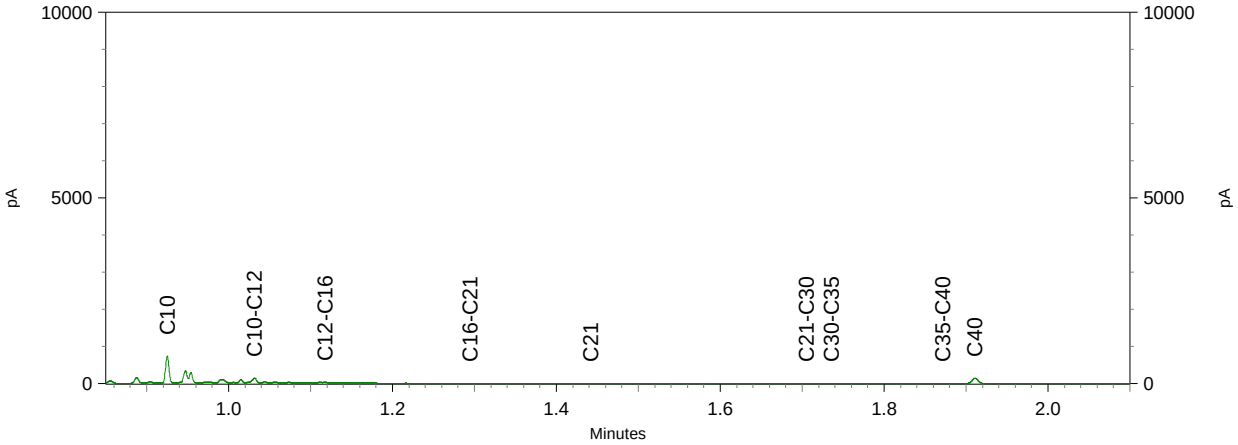


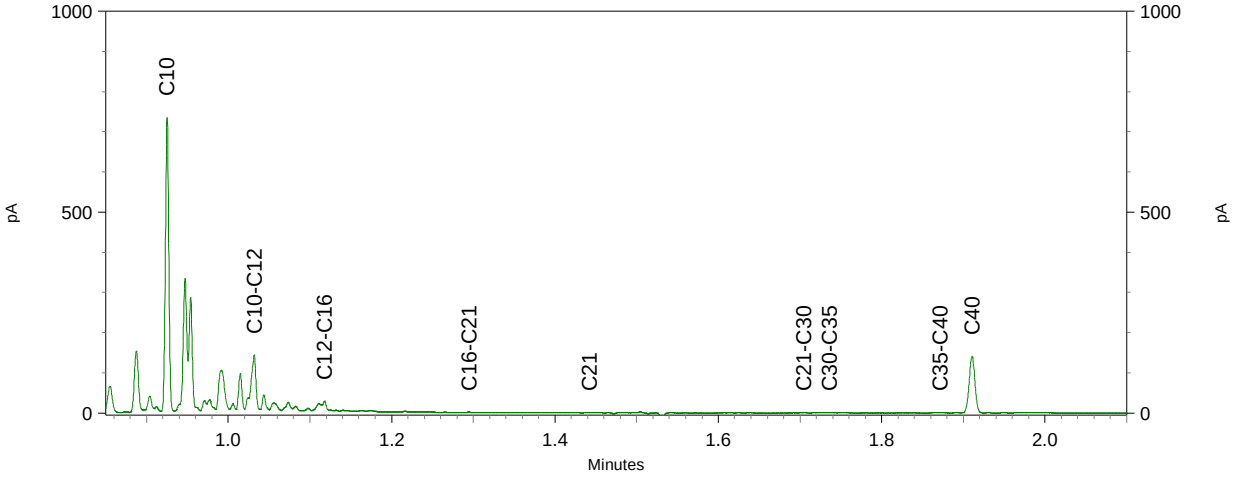


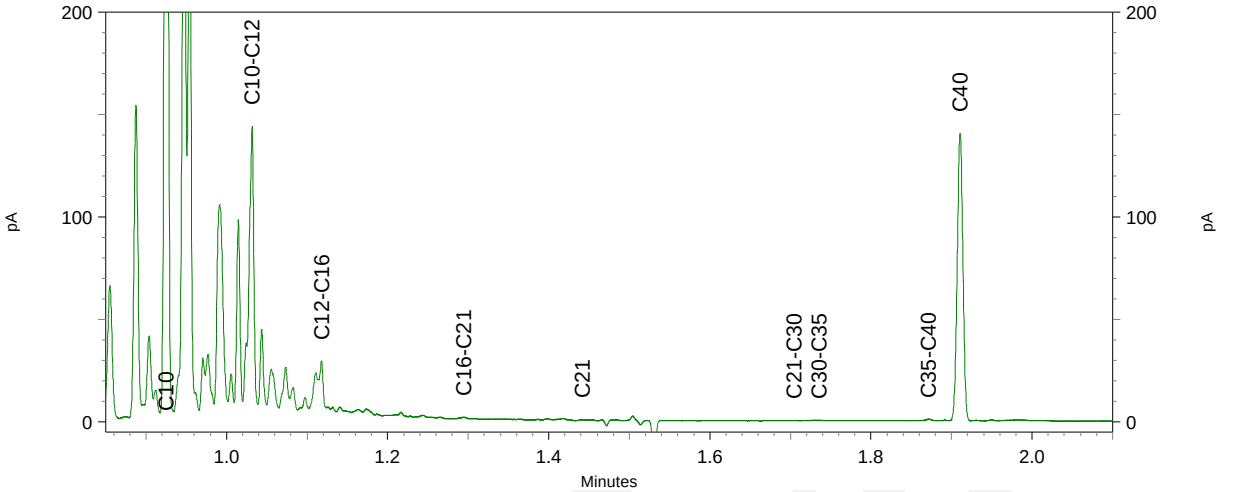


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734671
Certificate no.: 2020191944
Sample description.: 62
V







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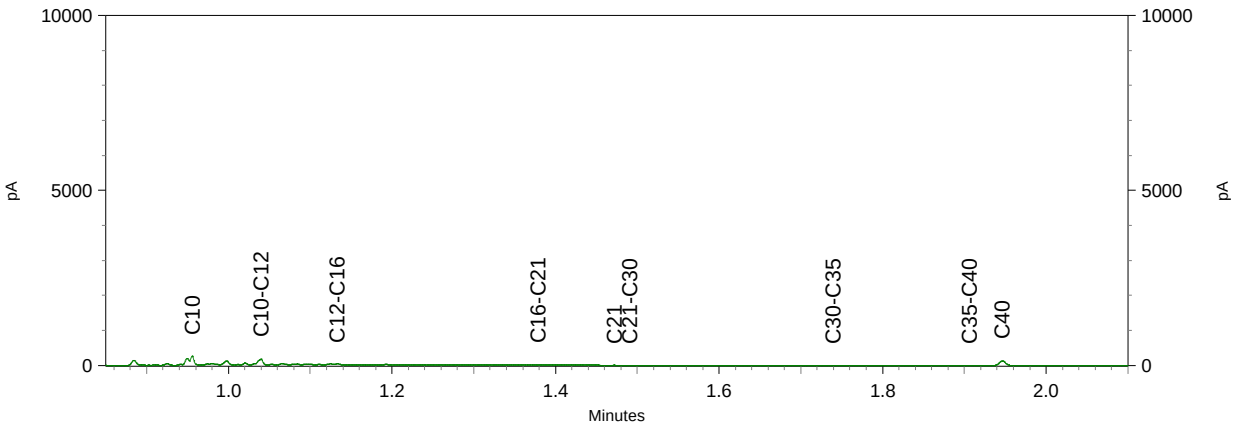
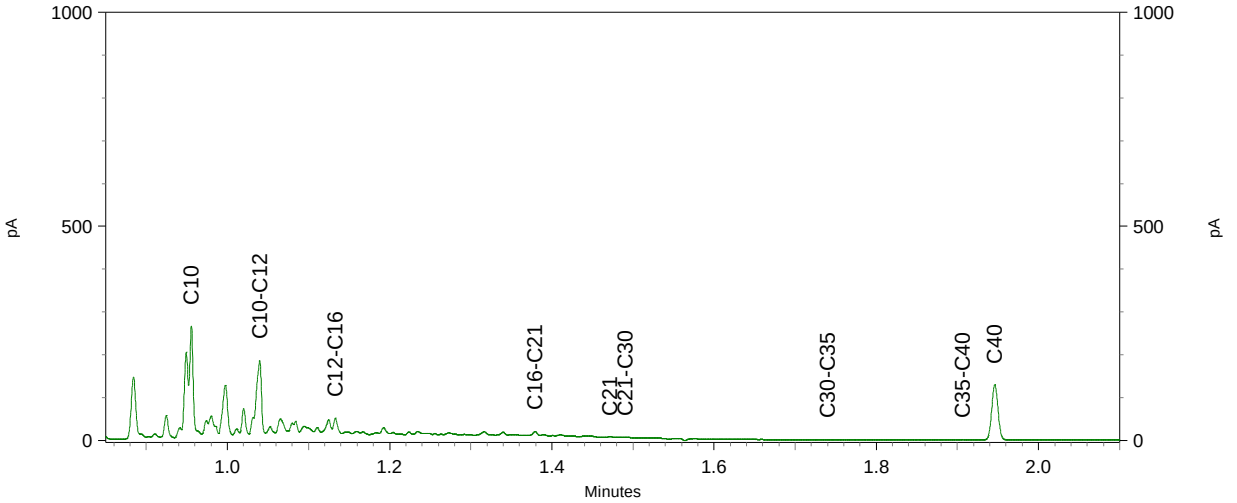
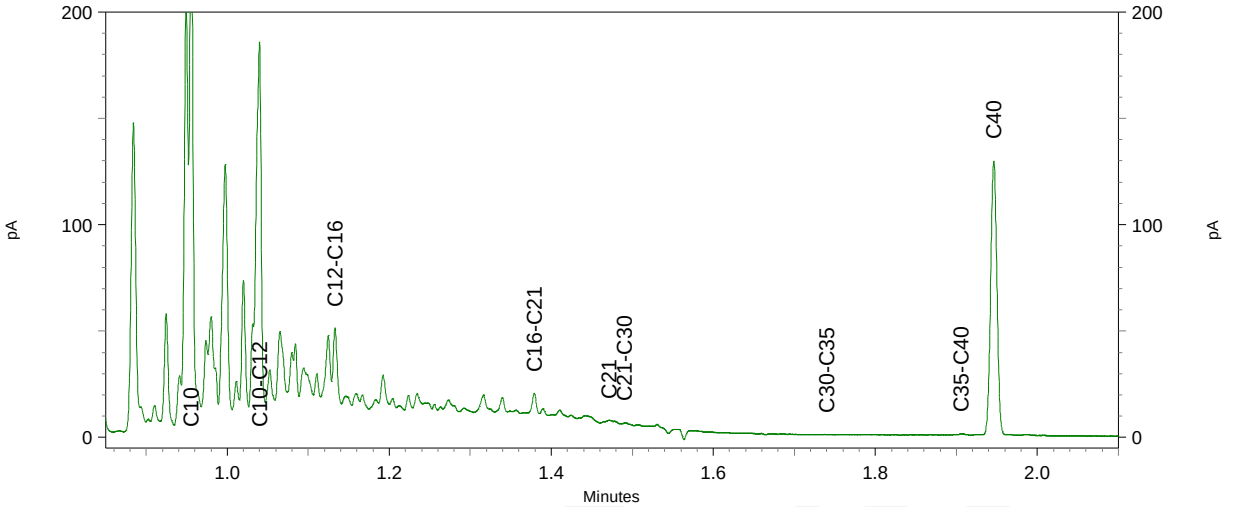
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734672
Certificate no.: 2020191944
Sample description.: 65
V

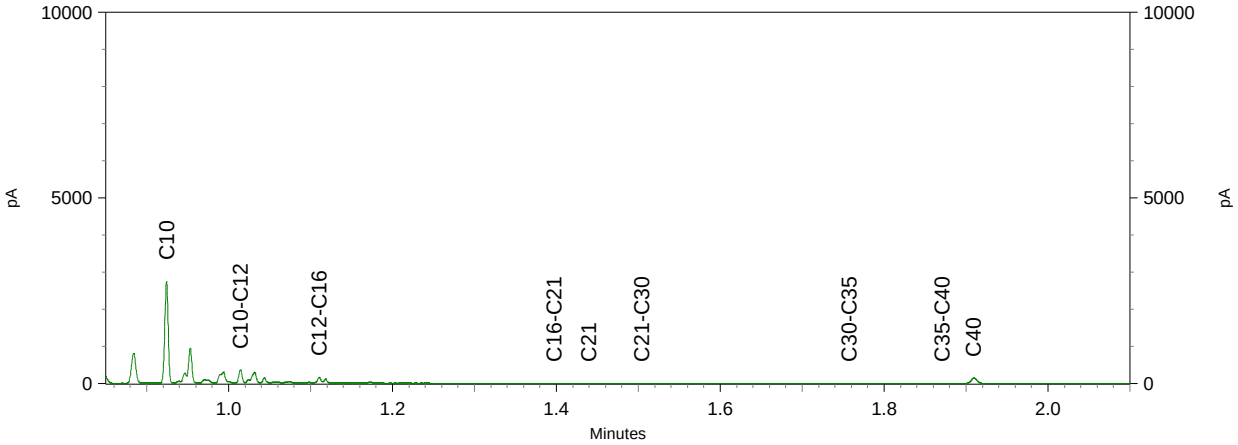


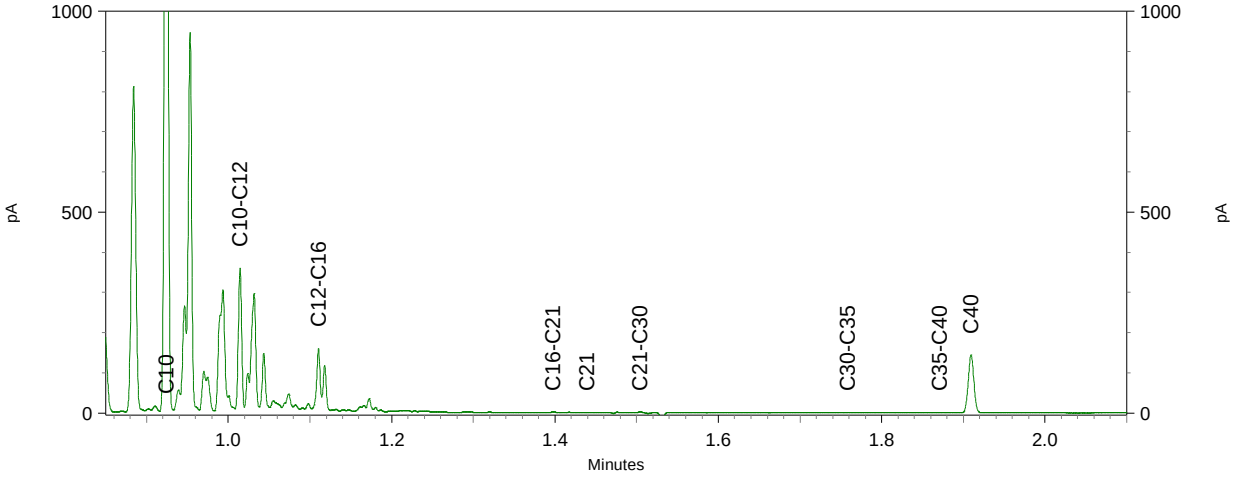


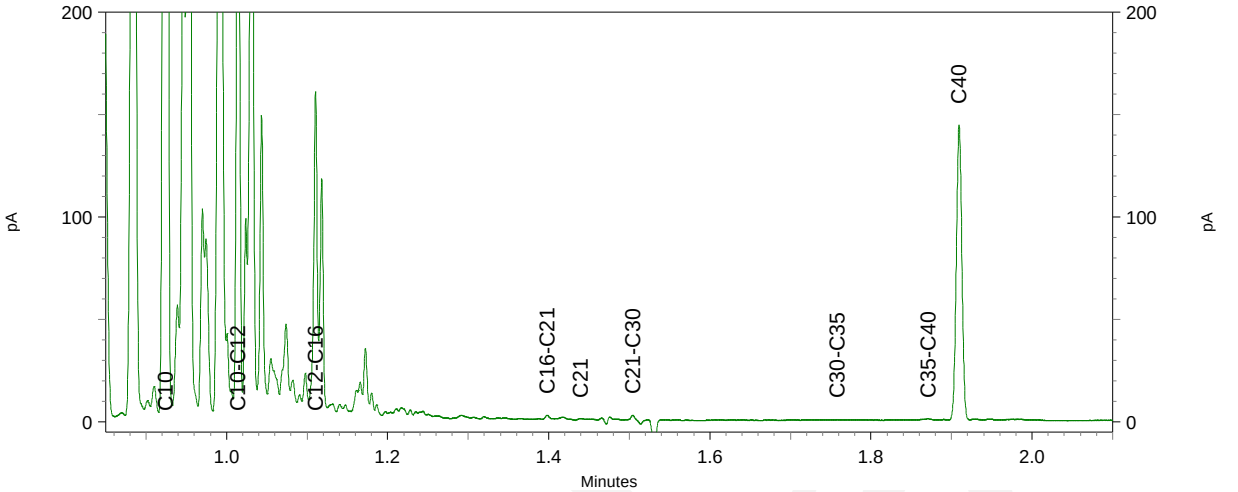


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734673
Certificate no.: 2020191944
Sample description.: 60
V







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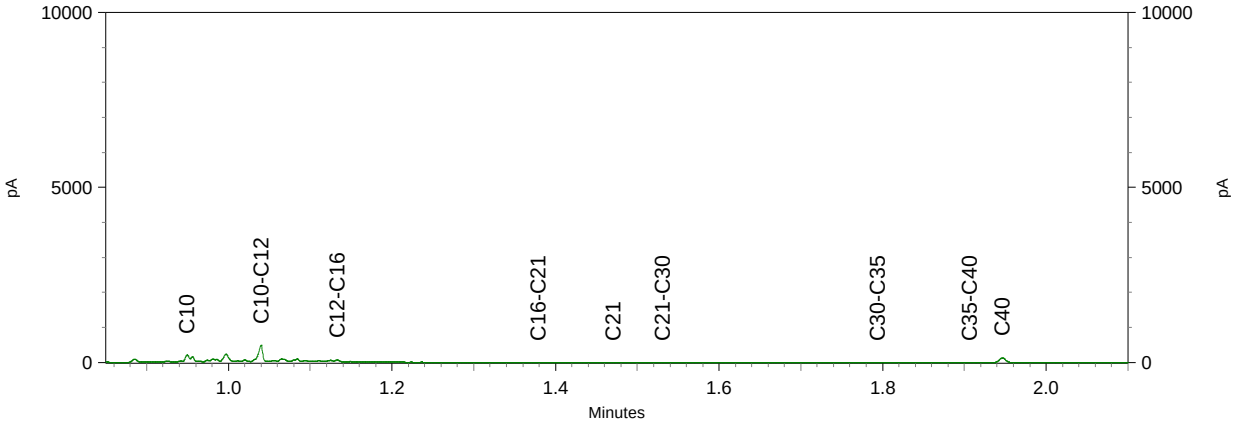
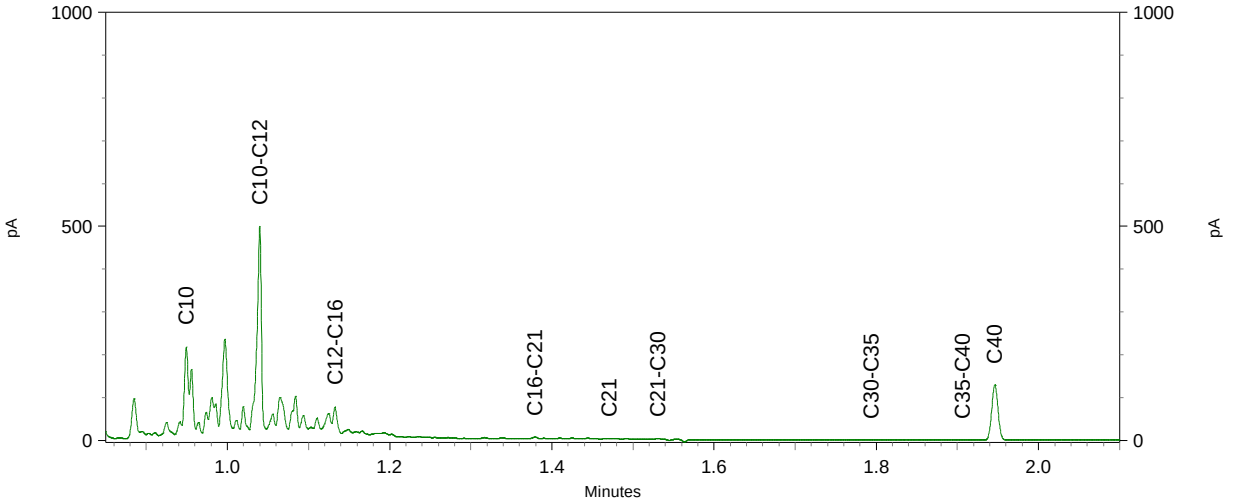
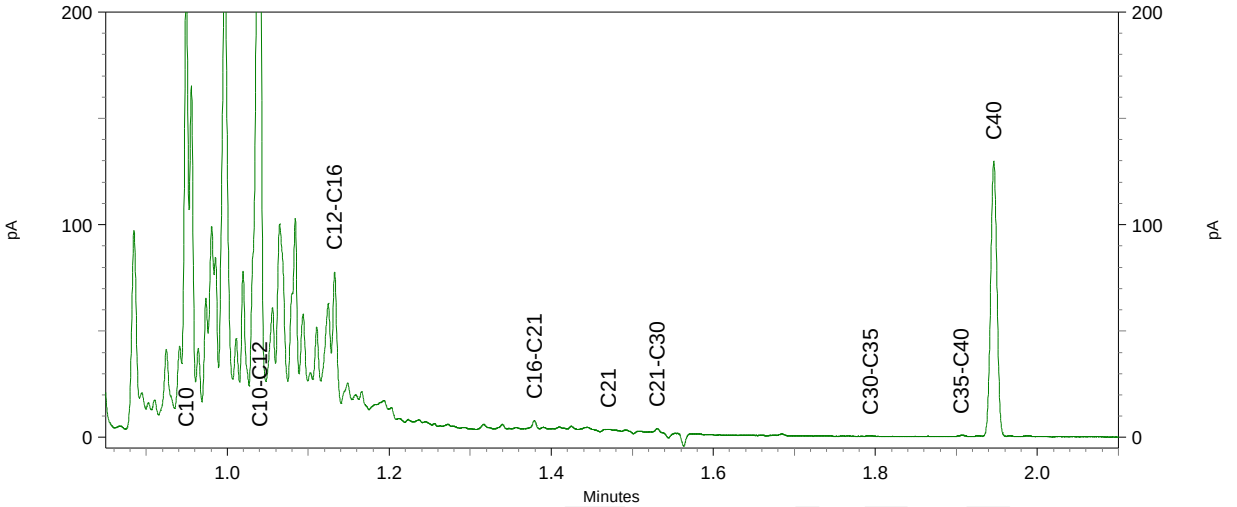
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734674
Certificate no.: 2020191944
Sample description.: 72
V

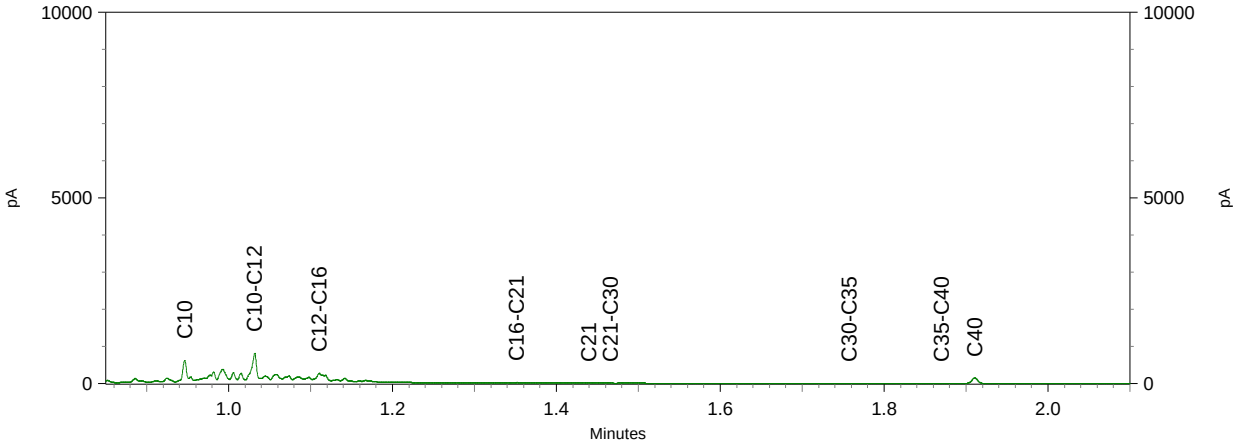


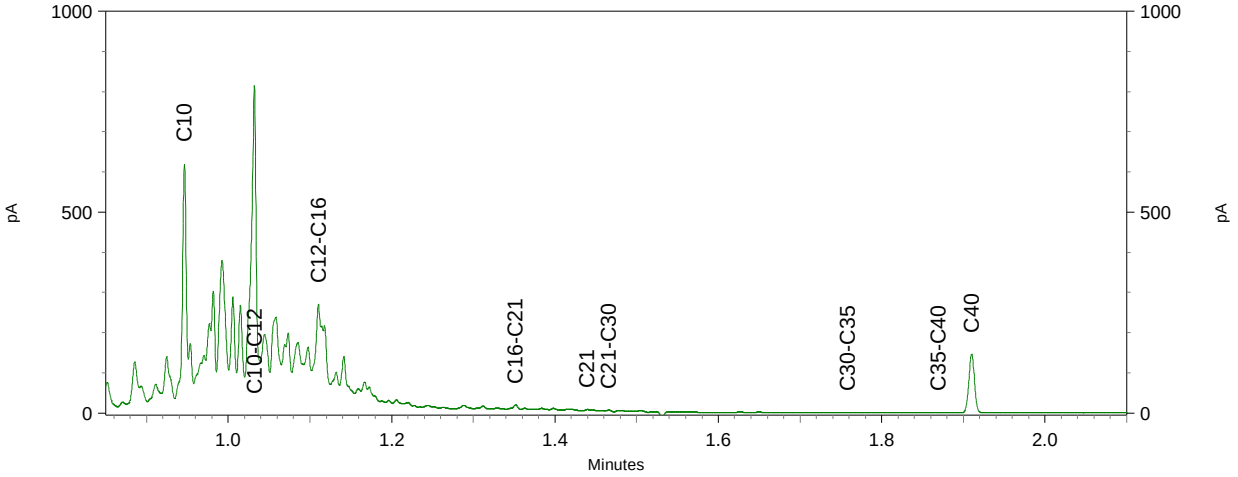


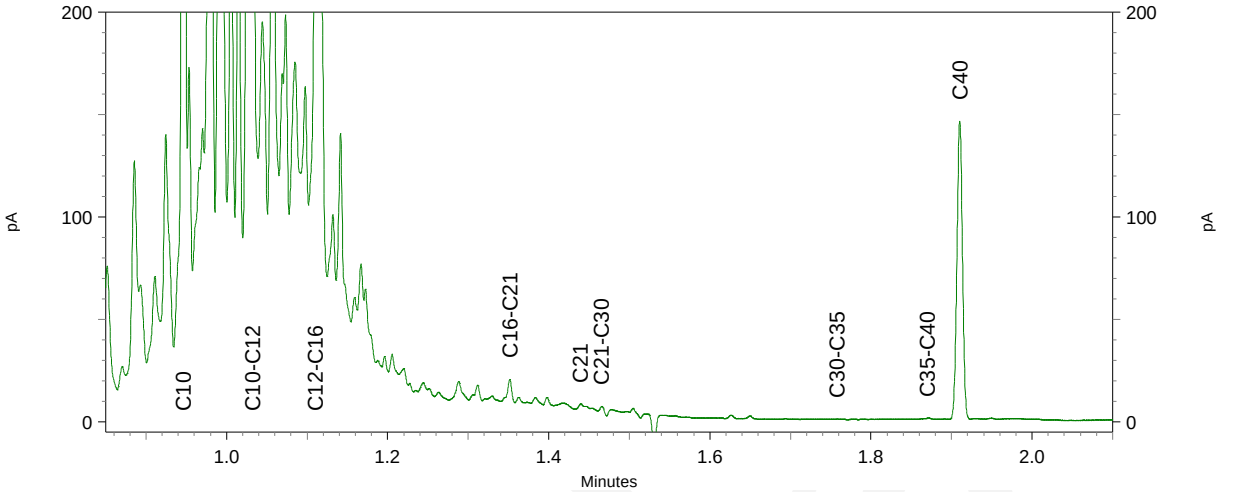


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734675
Certificate no.: 2020191944
Sample description.: 1-4
V

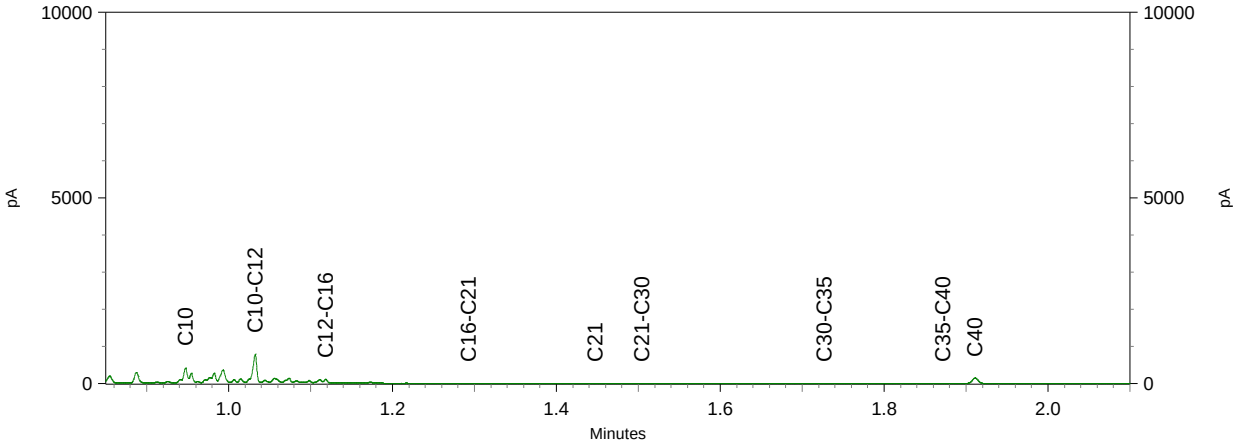


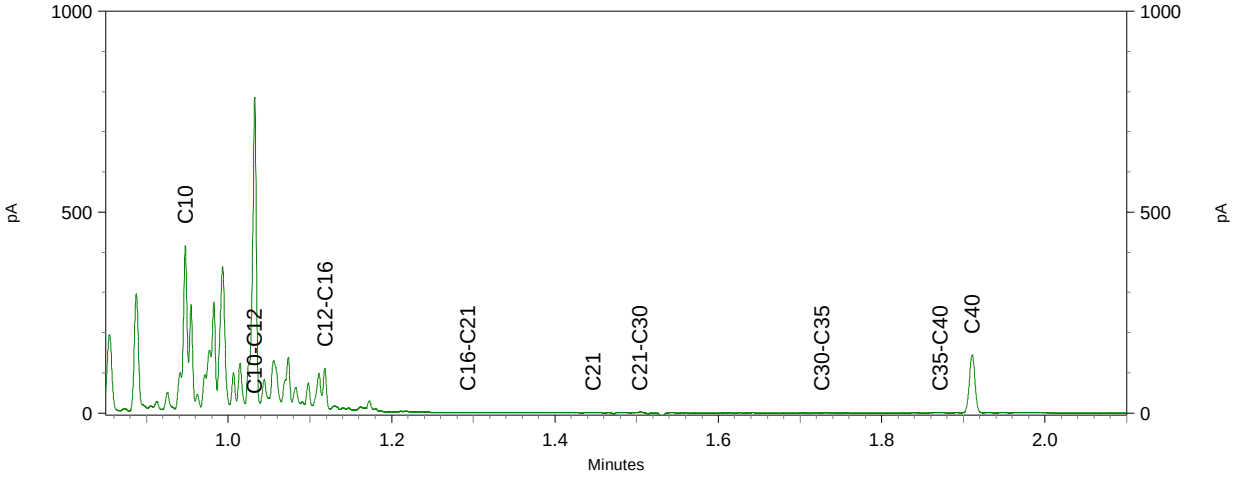


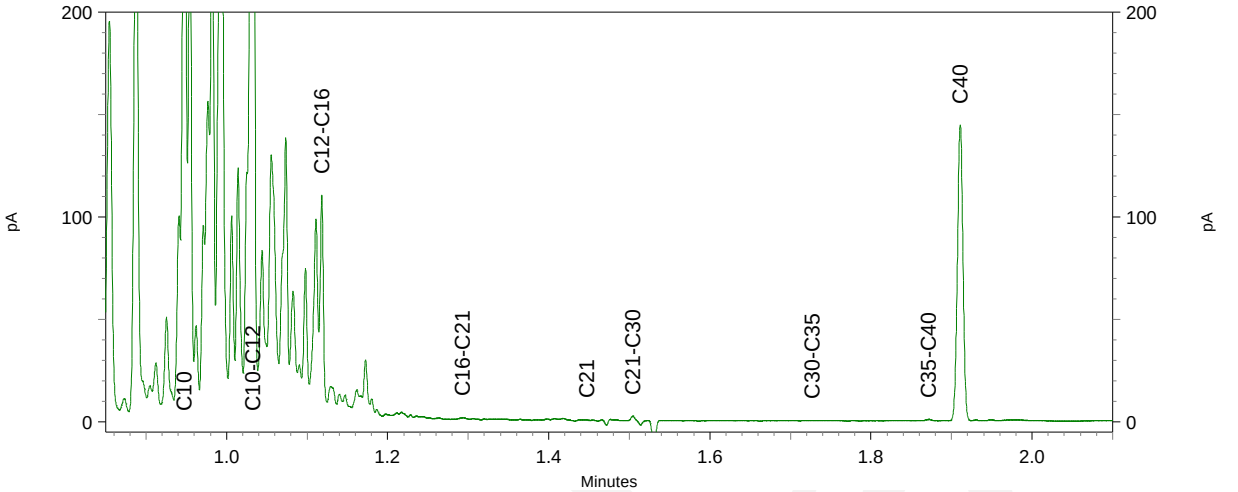


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734676
Certificate no.: 2020191944
Sample description.: 10
V

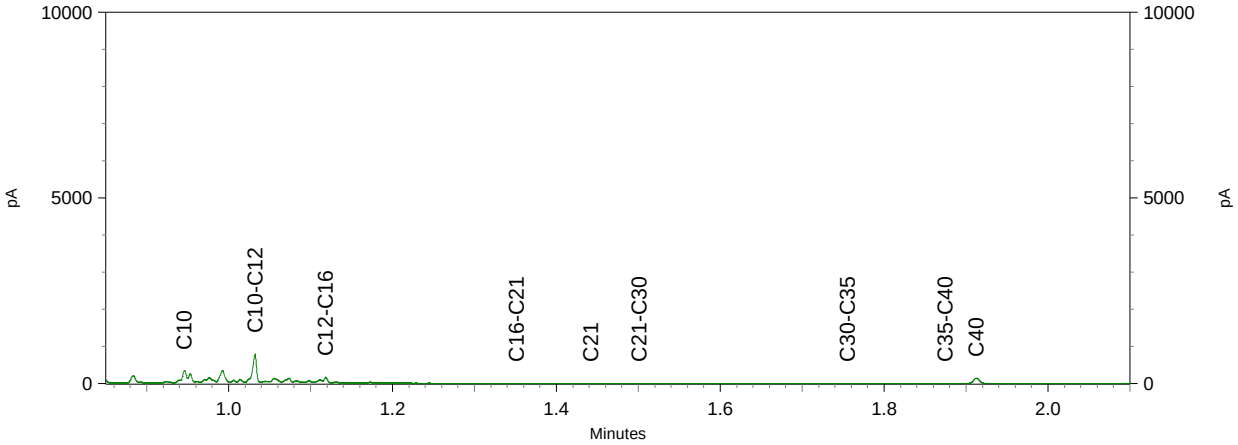


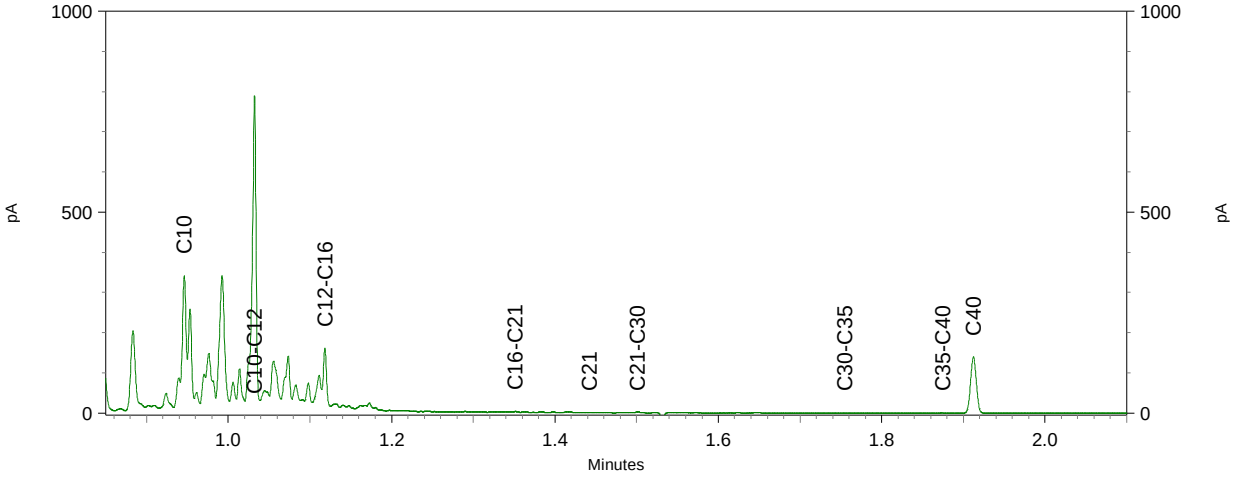


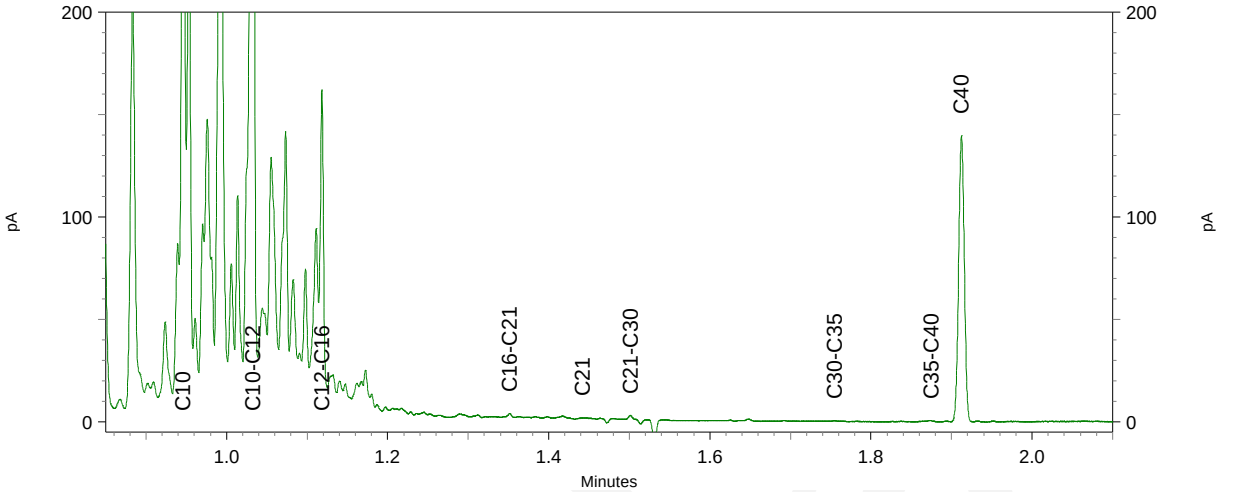


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734677
Certificate no.: 2020191944
Sample description.: 31
V

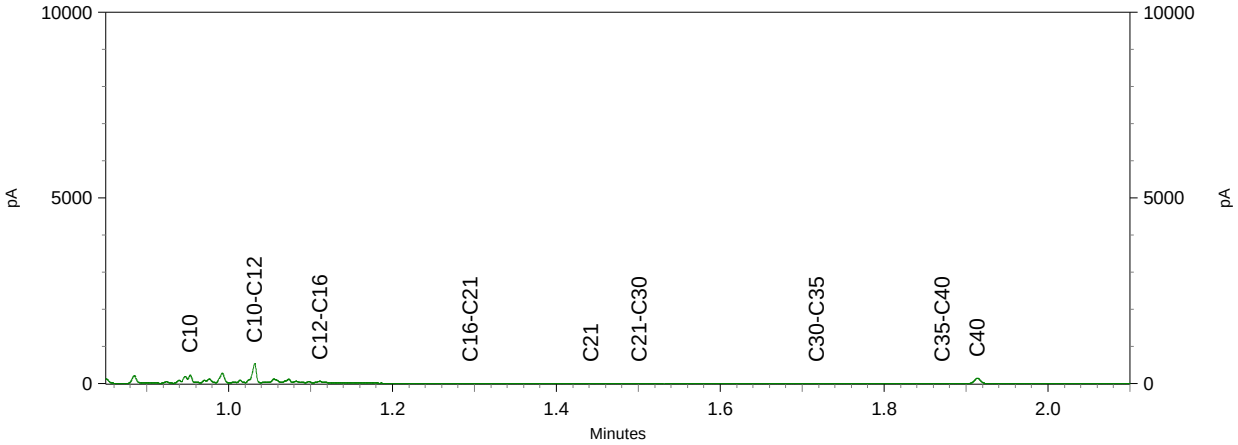


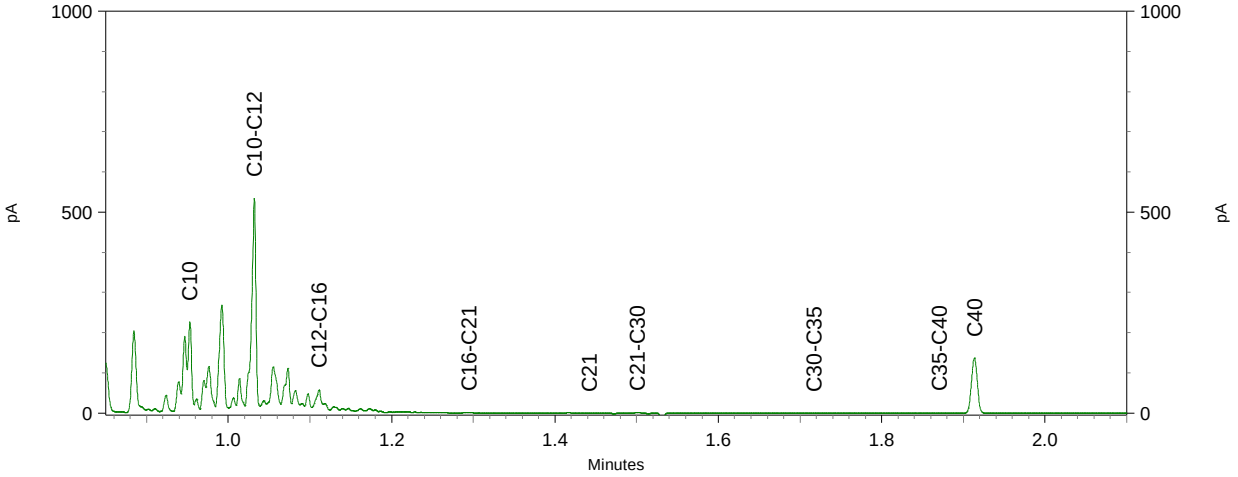


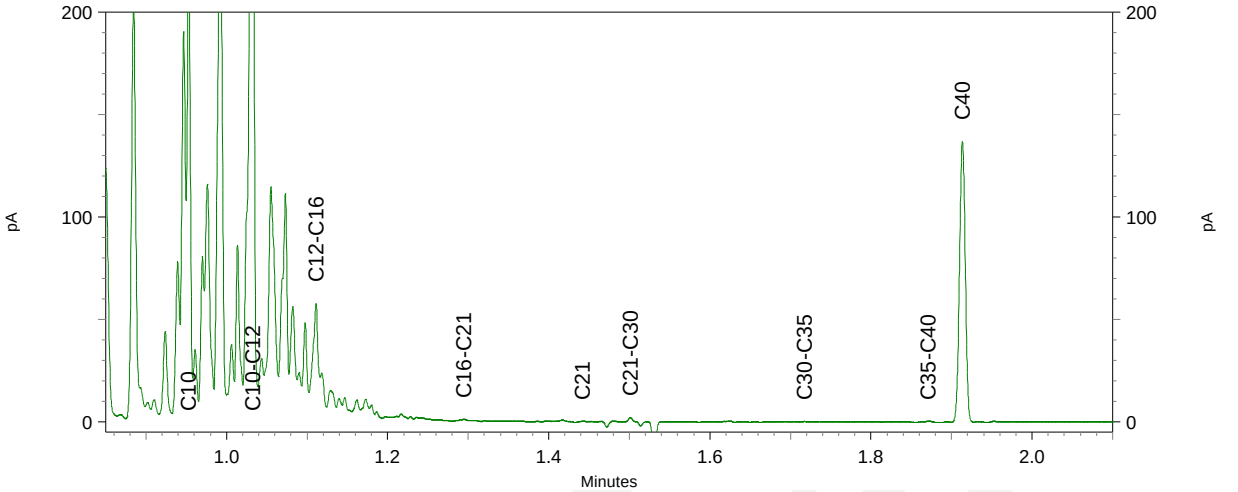


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734678
Certificate no.: 2020191944
Sample description.: VE3
V

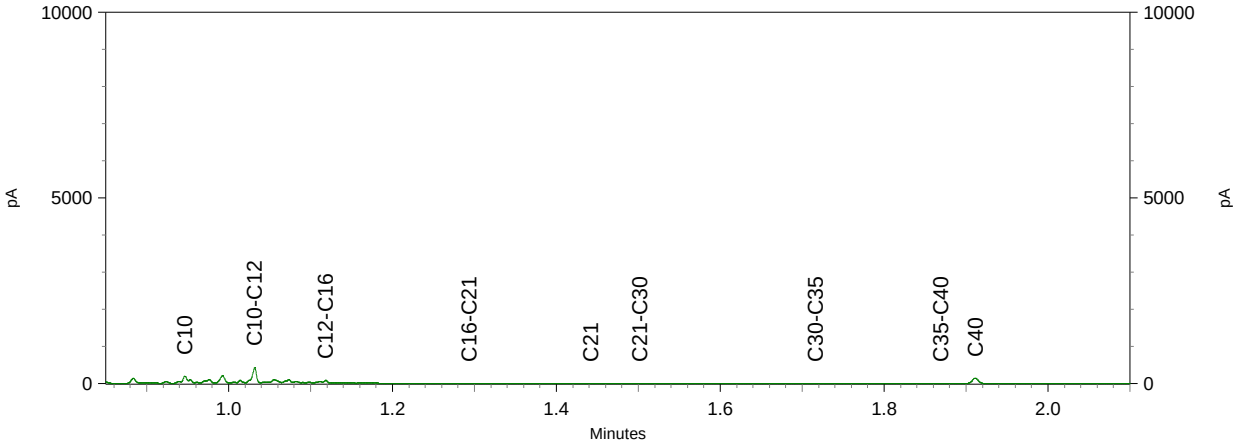


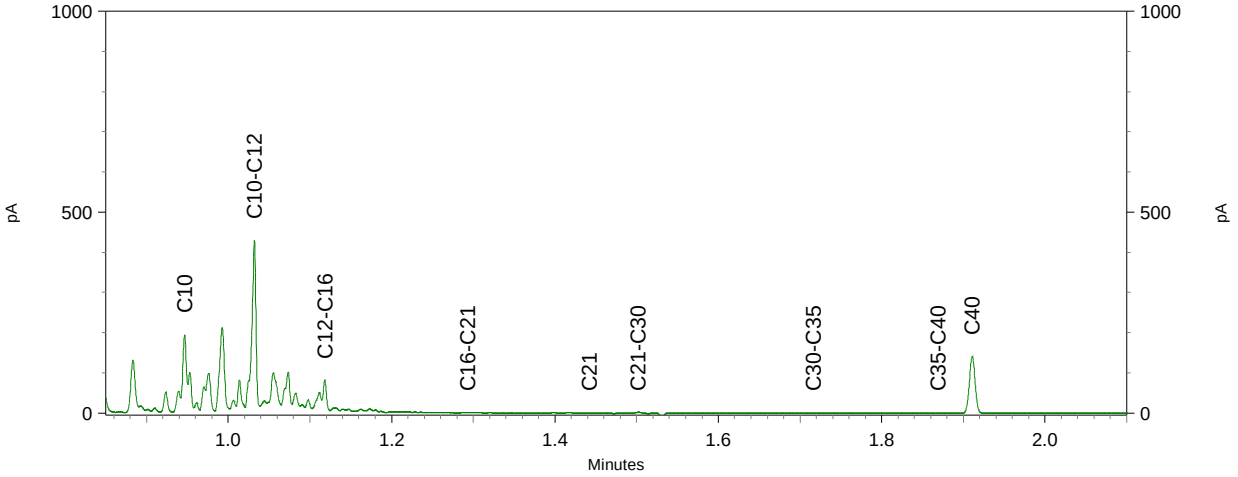


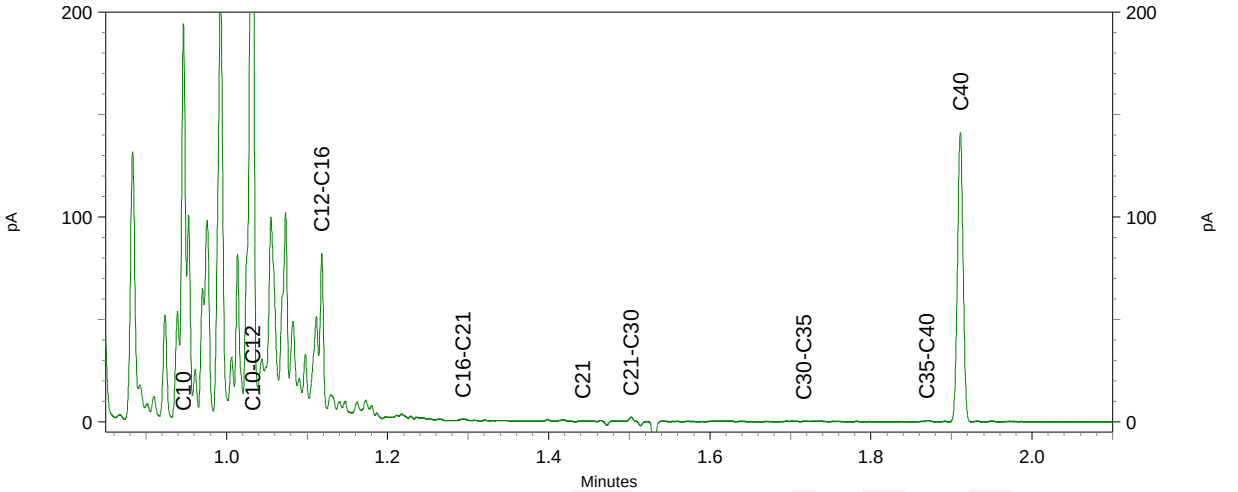


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734679
Certificate no.: 2020191944
Sample description.: VE4
V

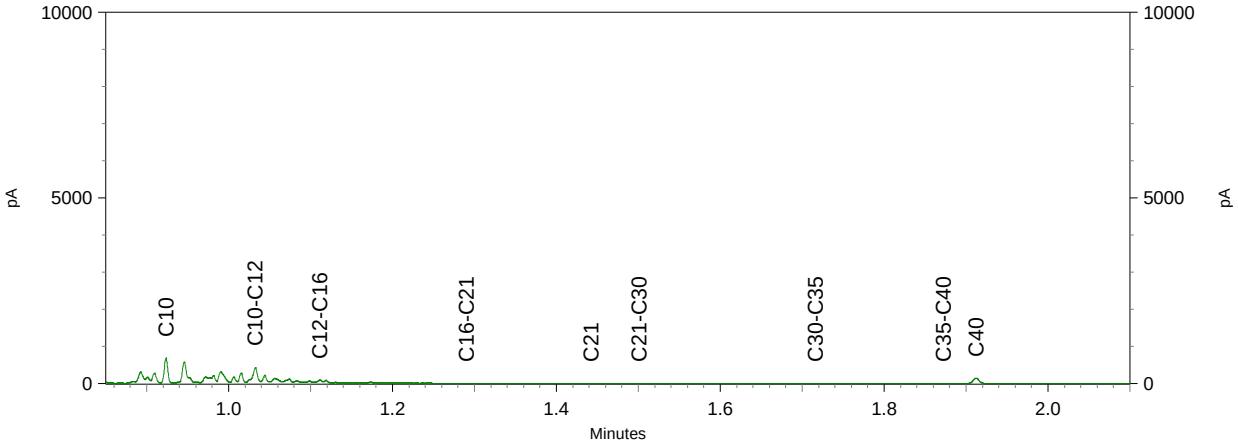


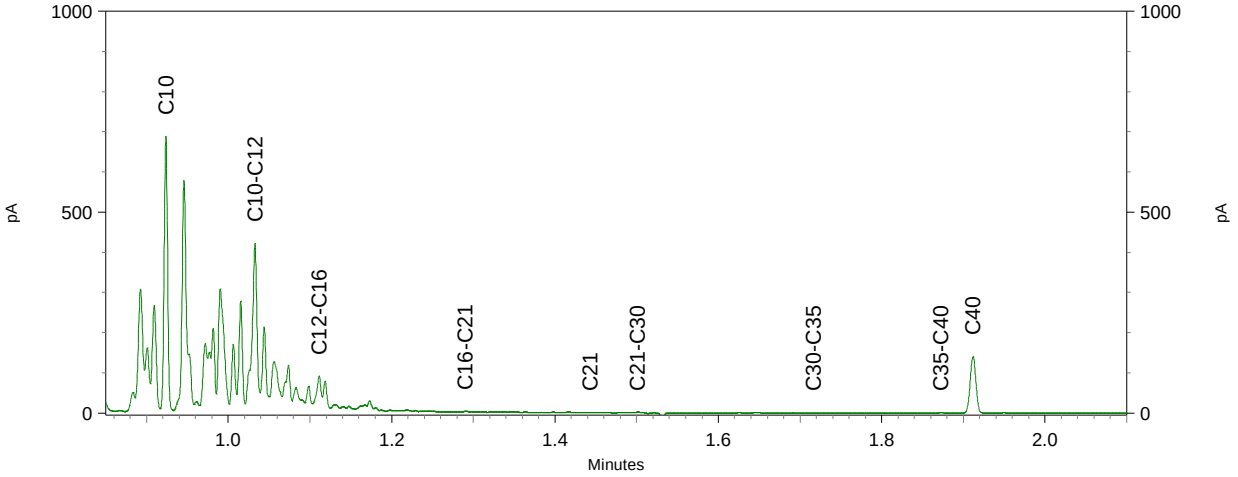


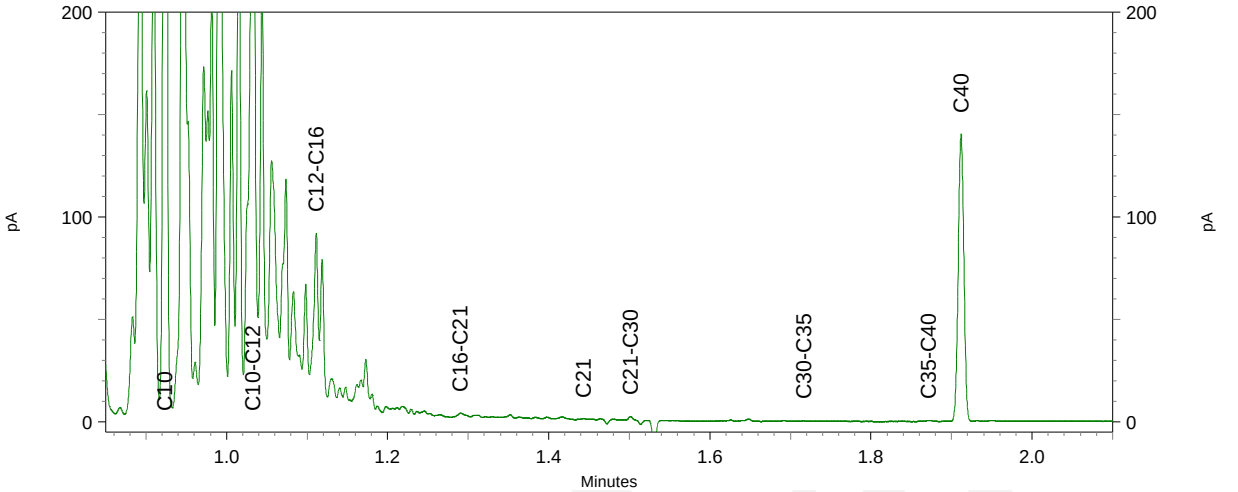


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734680
Certificate no.: 2020191944
Sample description.: VE28
V

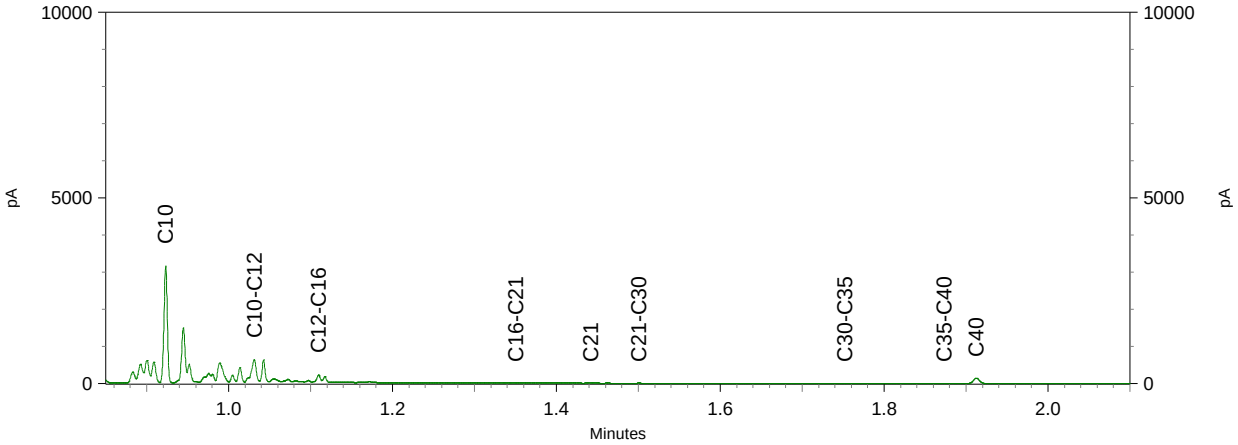


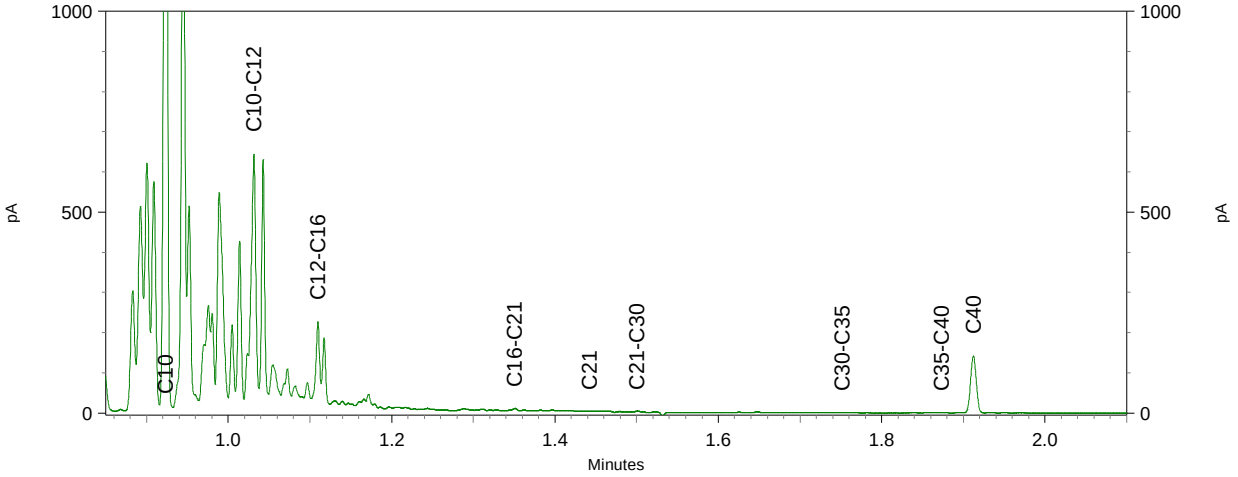


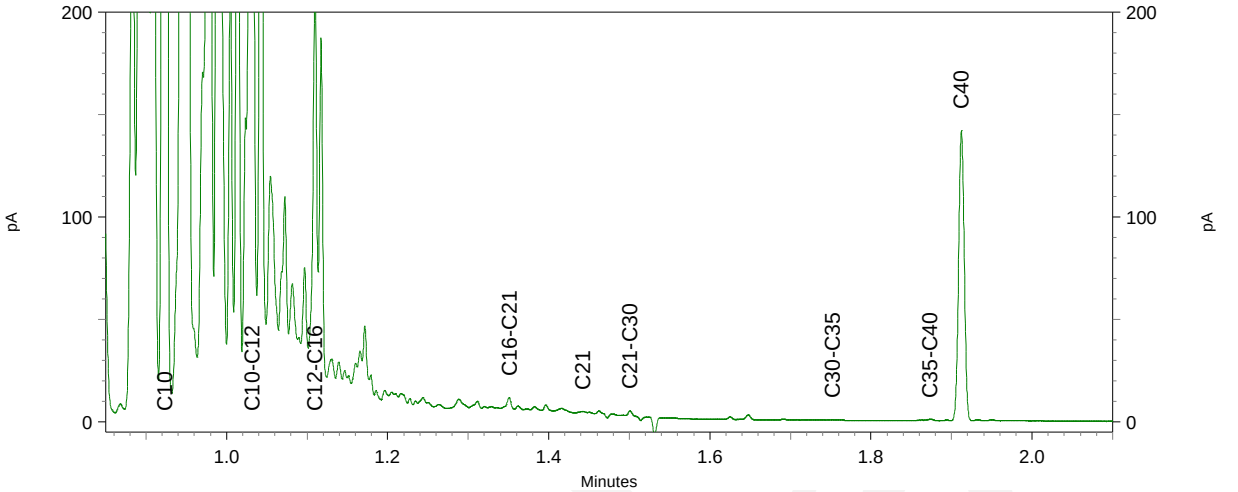


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734681
Certificate no.: 2020191944
Sample description.: 33
V







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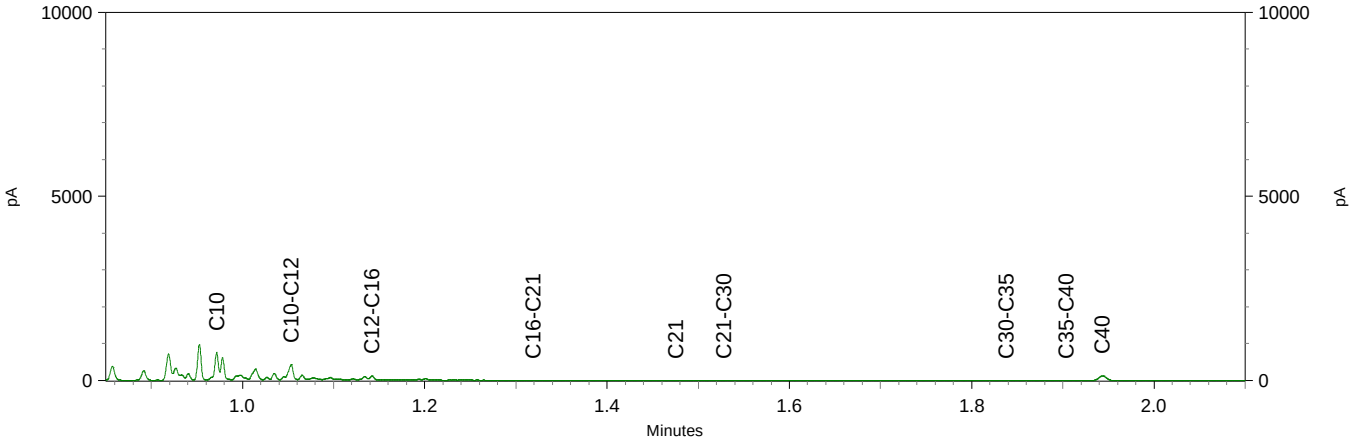
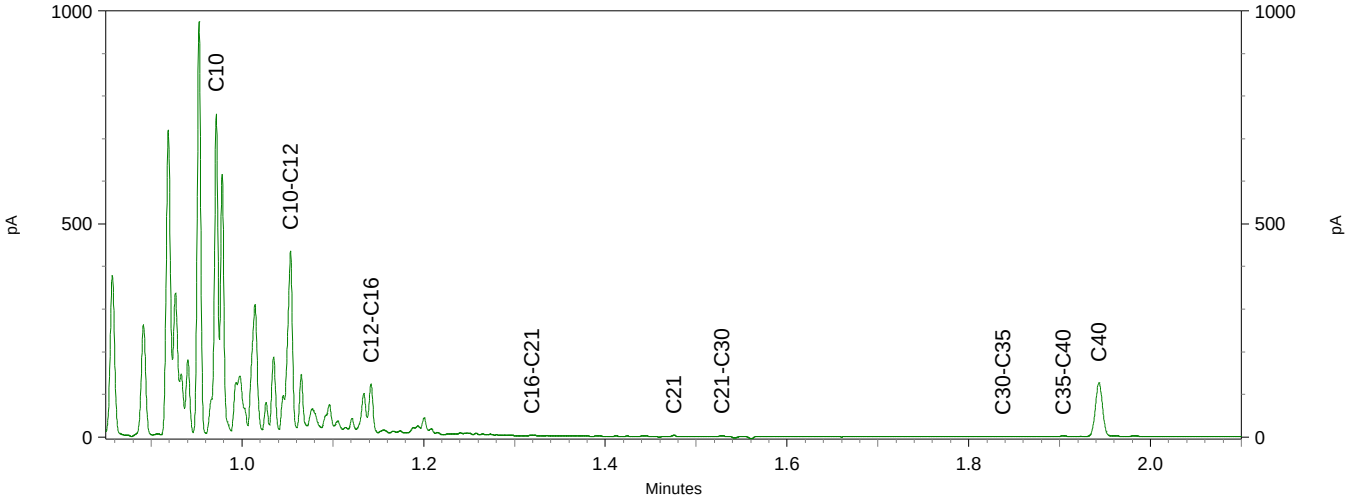
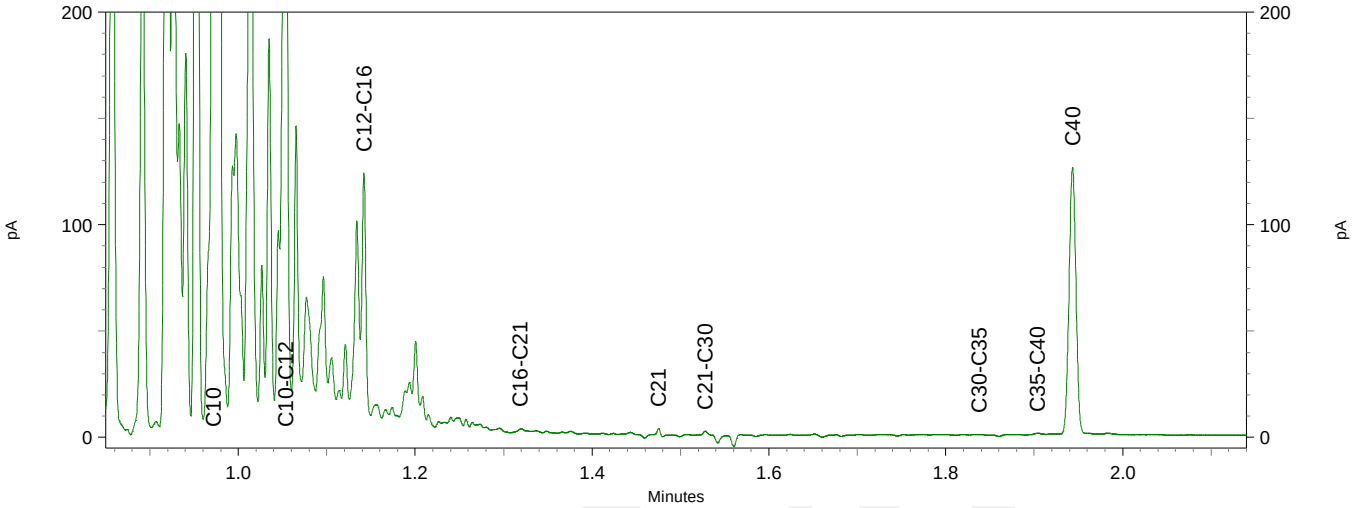
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734682
Certificate no.: 2020191944
Sample description.: M9
V

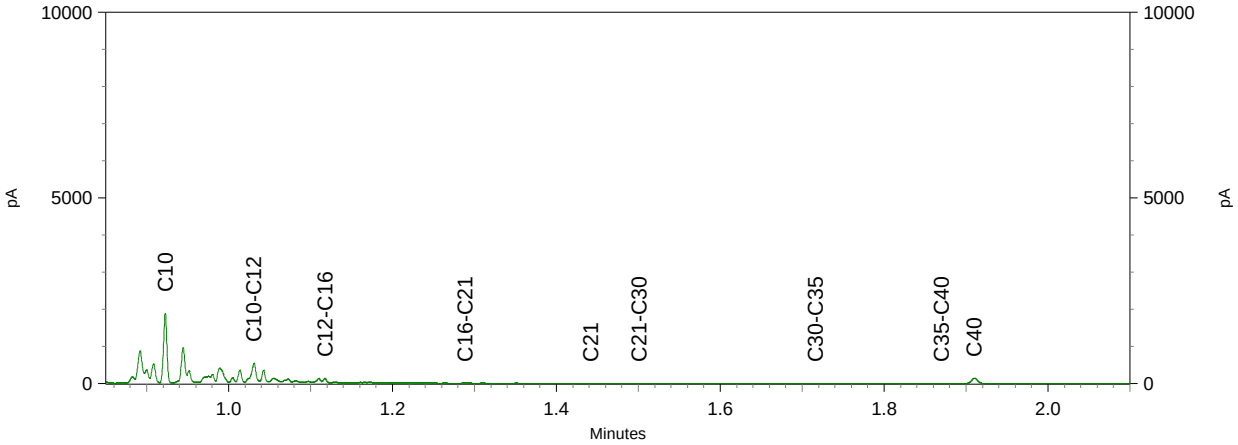


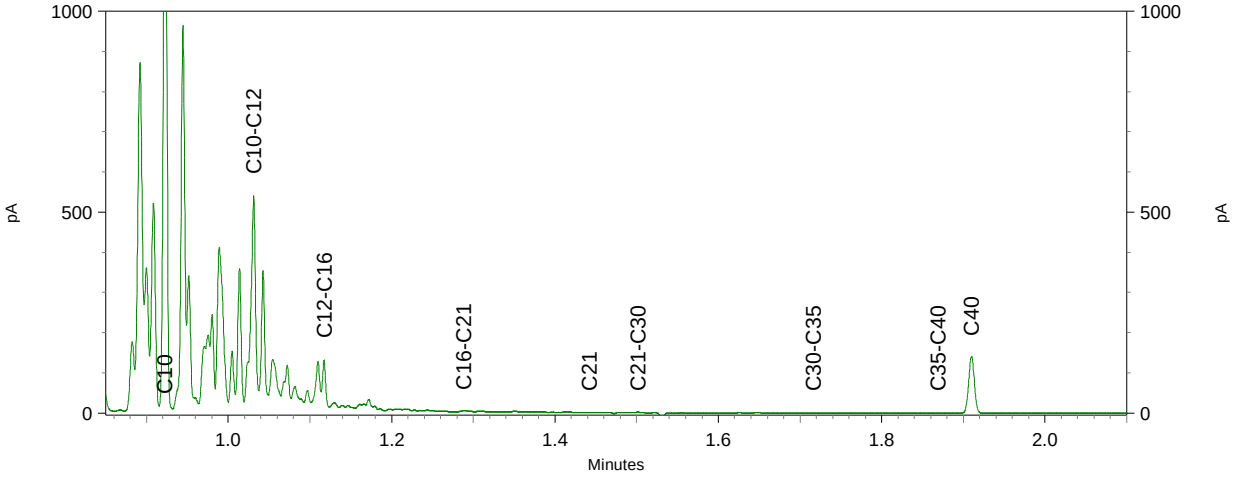


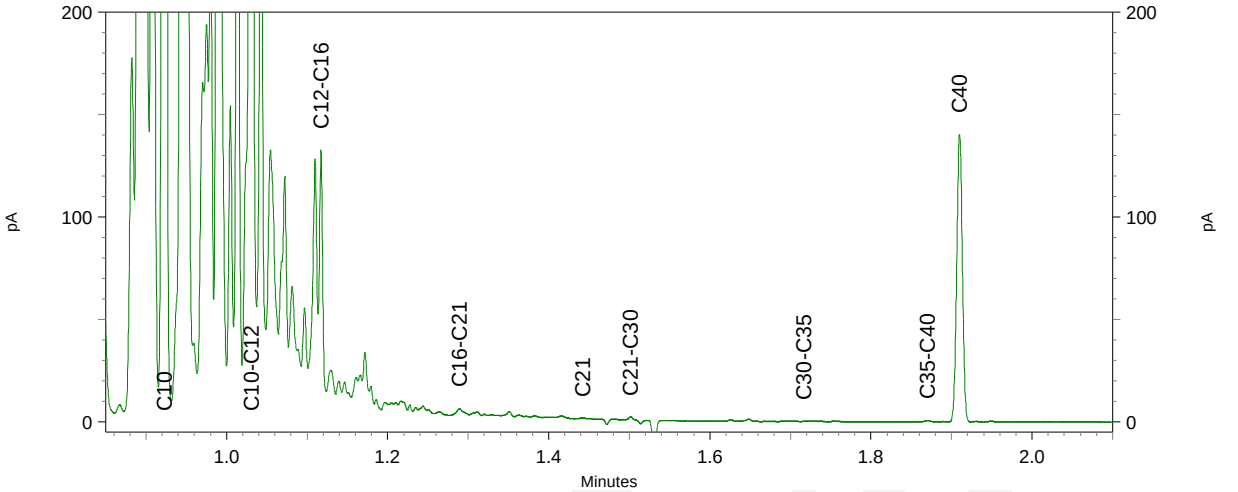


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734683
Certificate no.: 2020191944
Sample description.: VE5
V

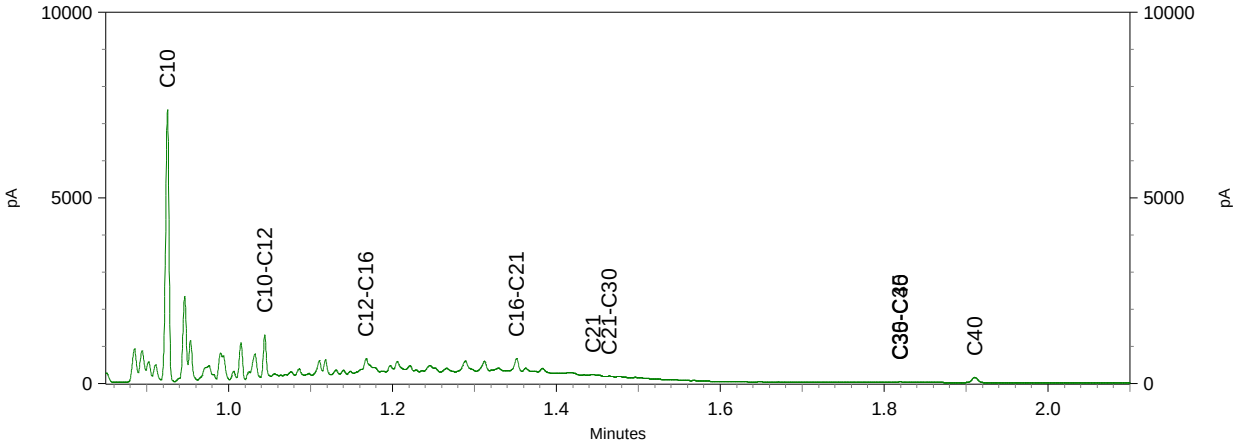


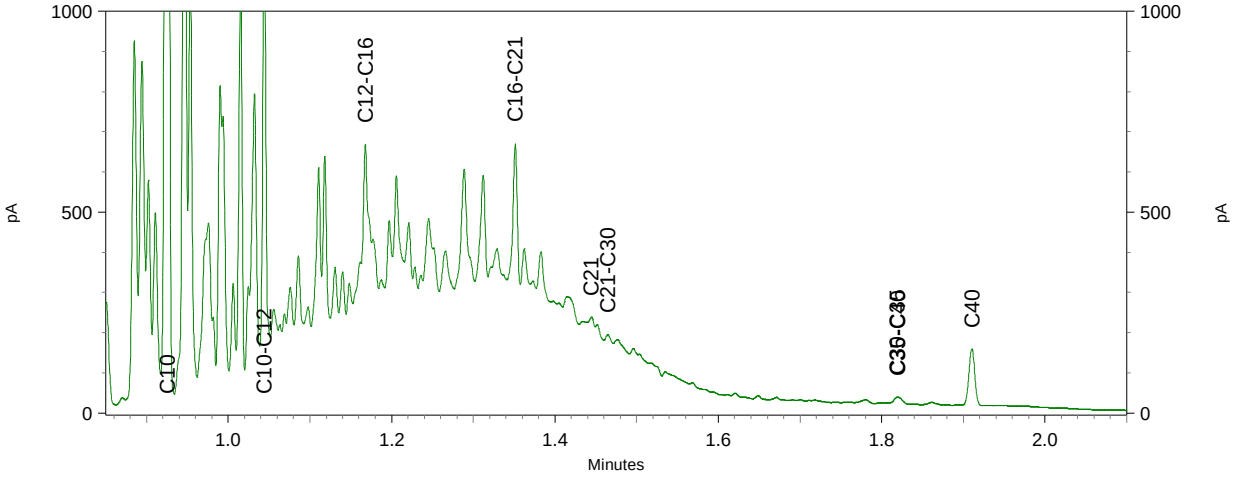


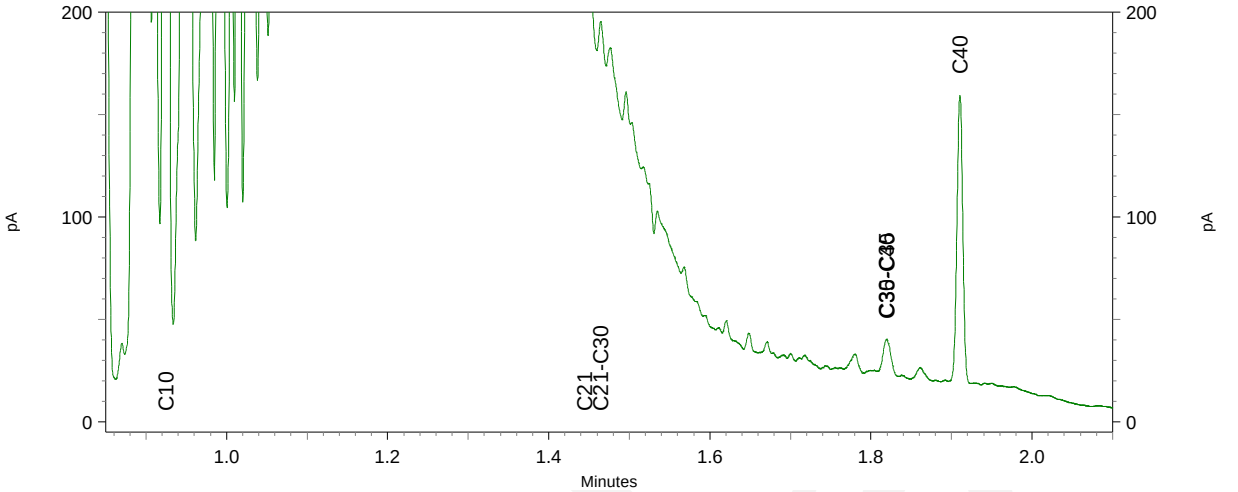


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734684
Certificate no.: 2020191944
Sample description.: 26
V

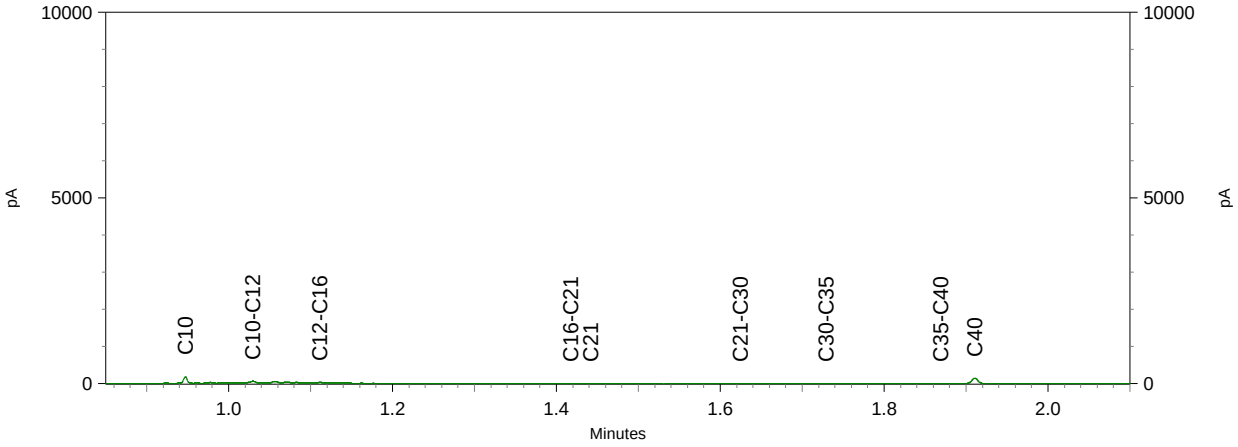


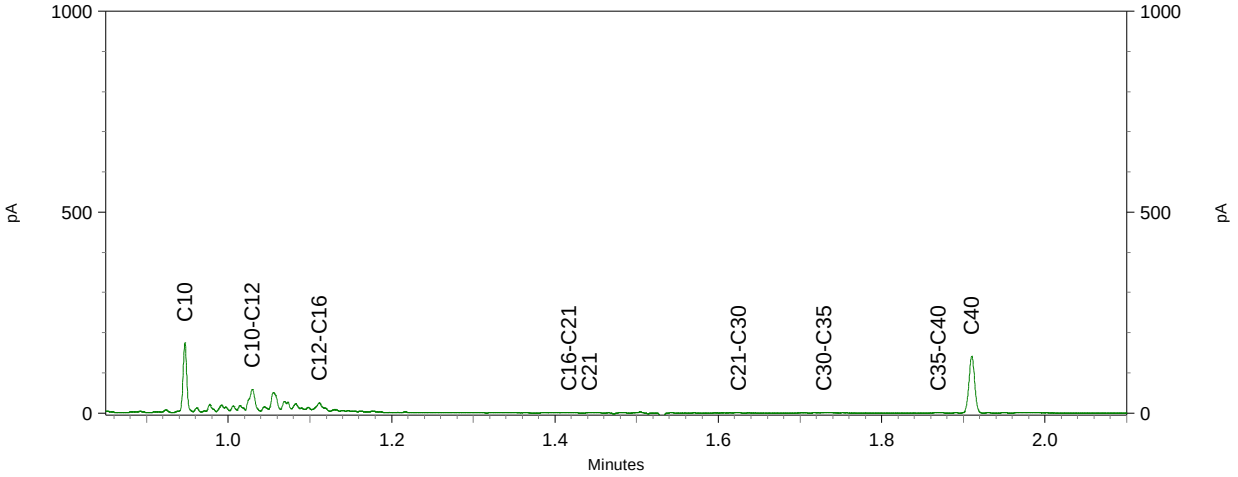


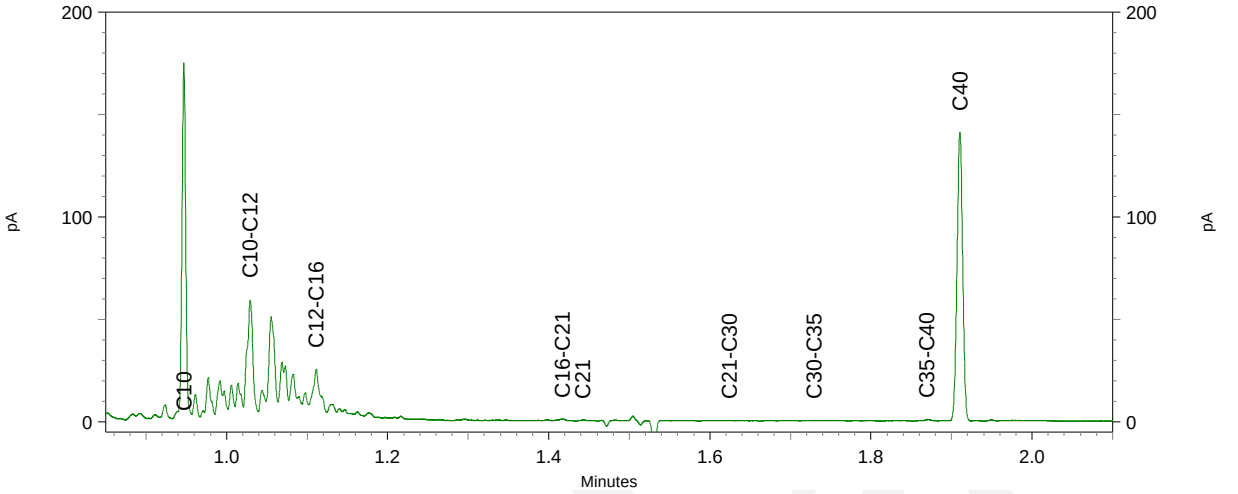


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734685
Certificate no.: 2020191944
Sample description.: VE2
V

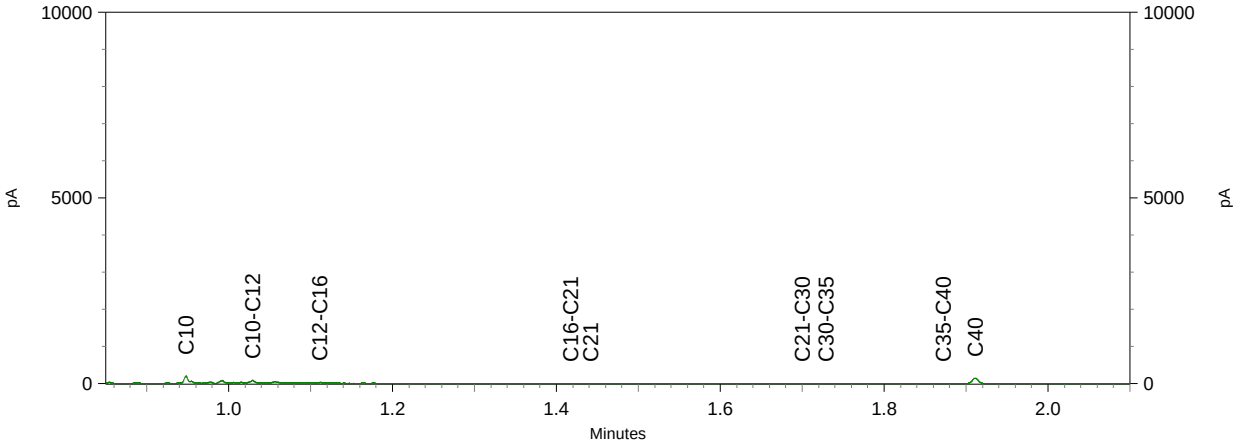


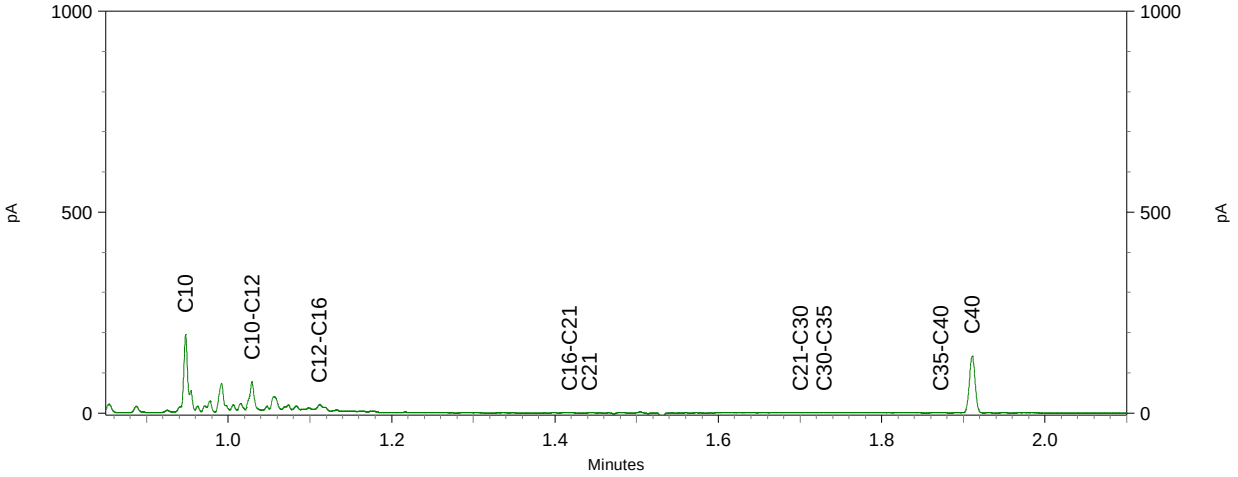


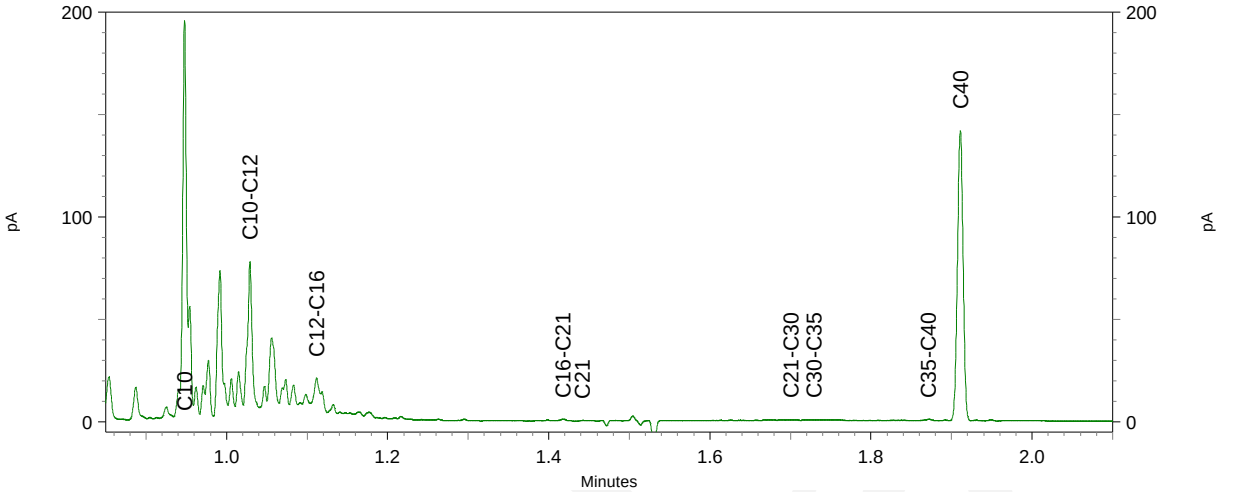


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734686
Certificate no.: 2020191944
Sample description.: 3ve
V







Chromatogram TPH/ Mineral Oil

Sample ID.: 11734687
Certificate no.: 2020191944
Sample description.: VE30
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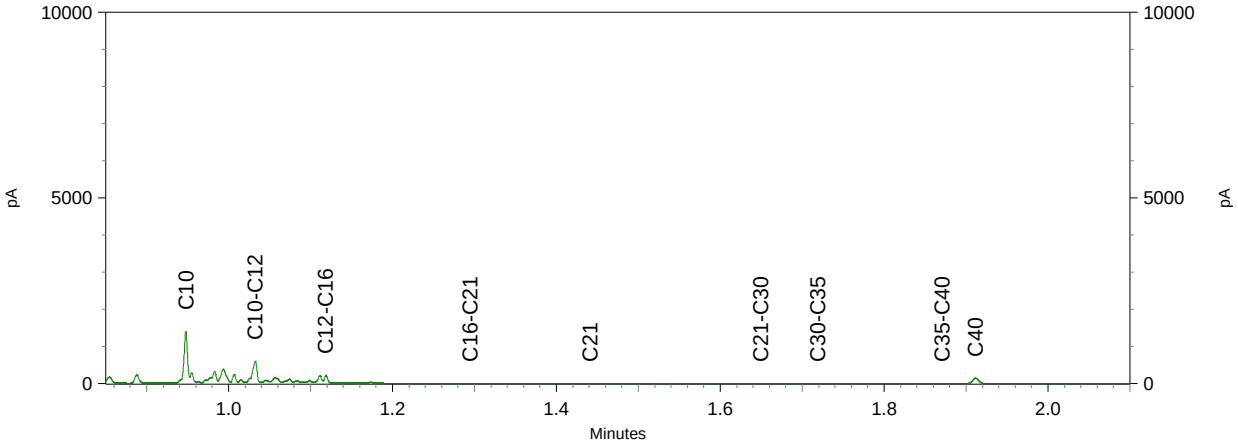
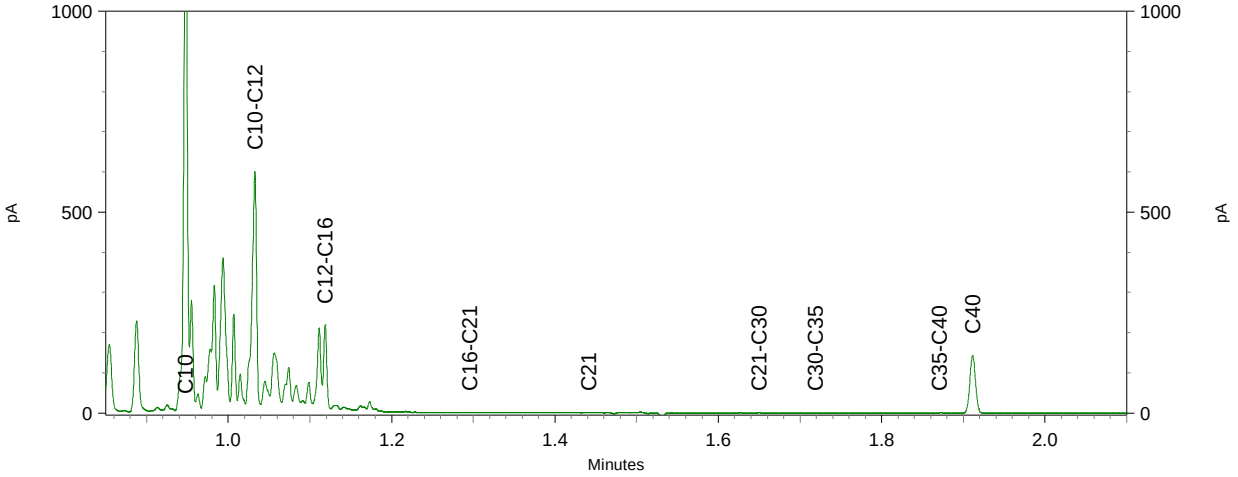
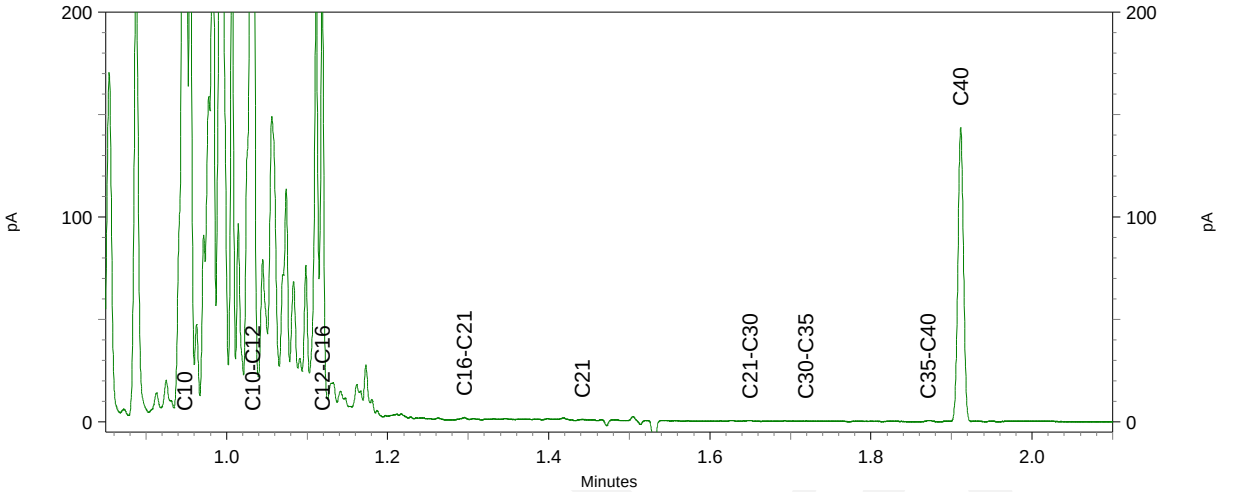
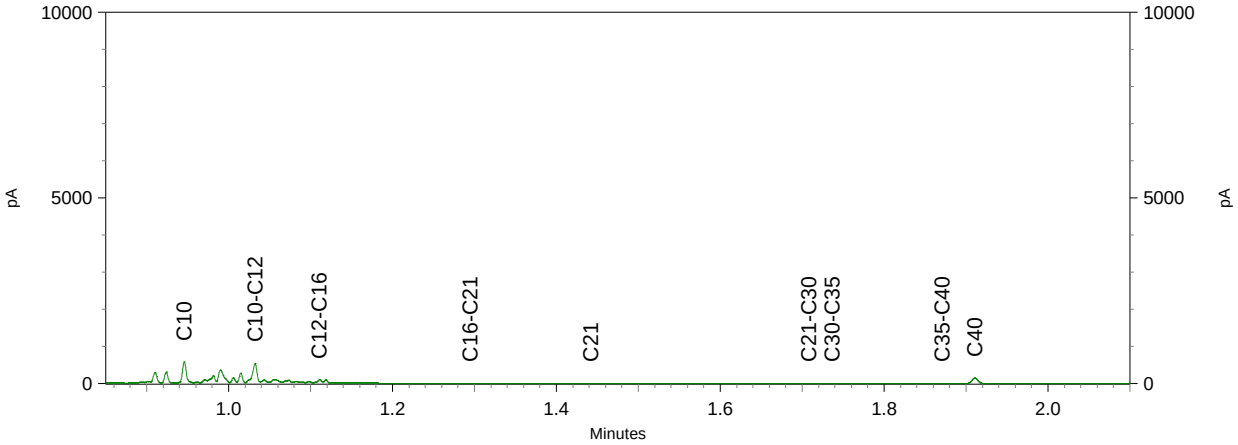


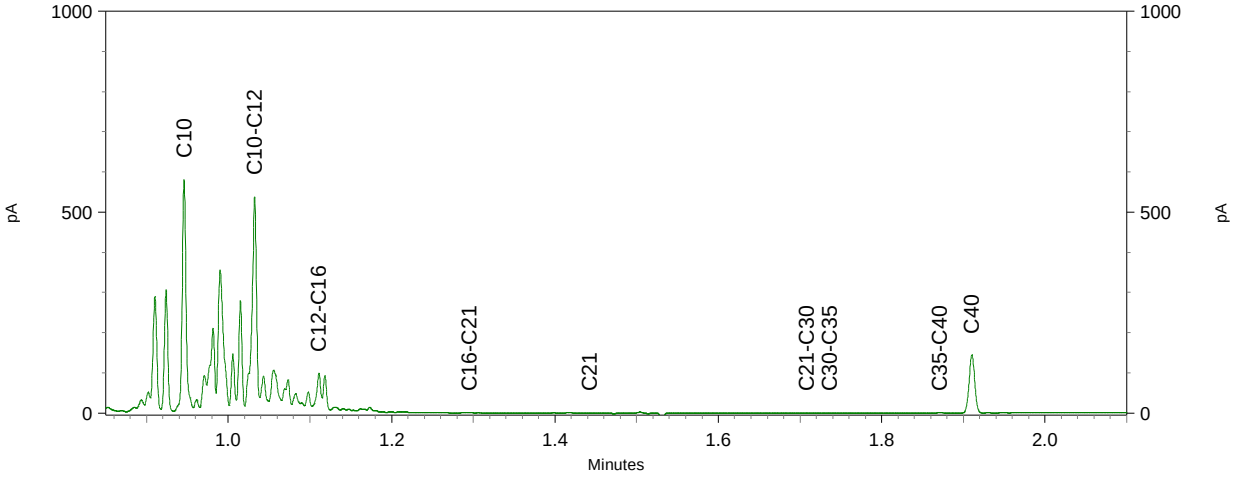


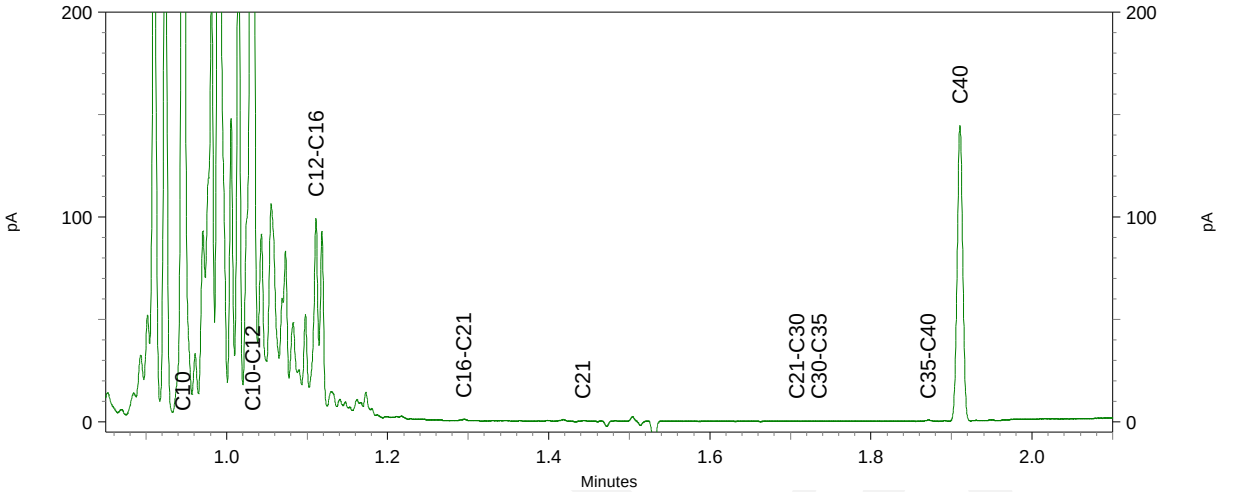


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734688
Certificate no.: 2020191944
Sample description.: 38
V

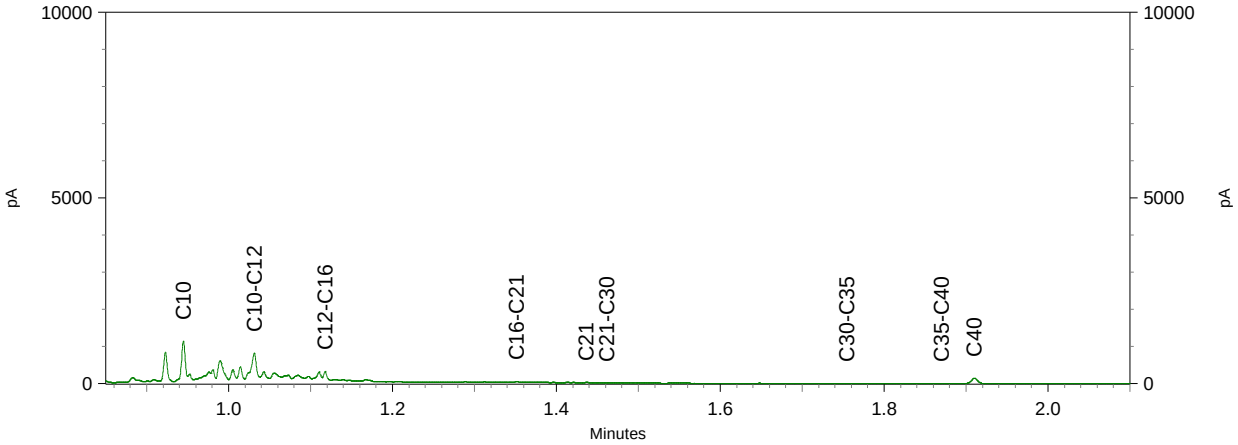


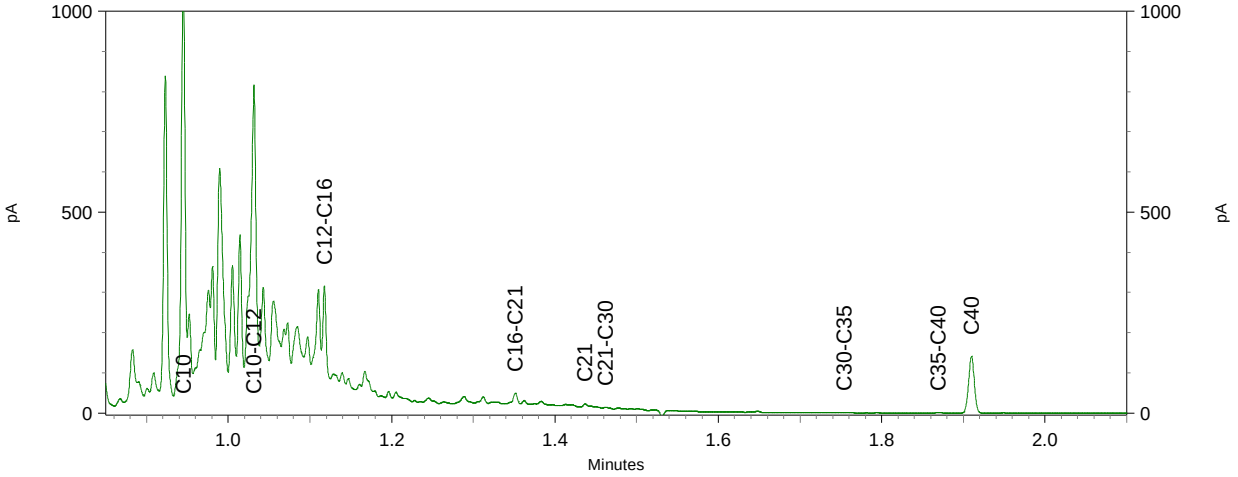


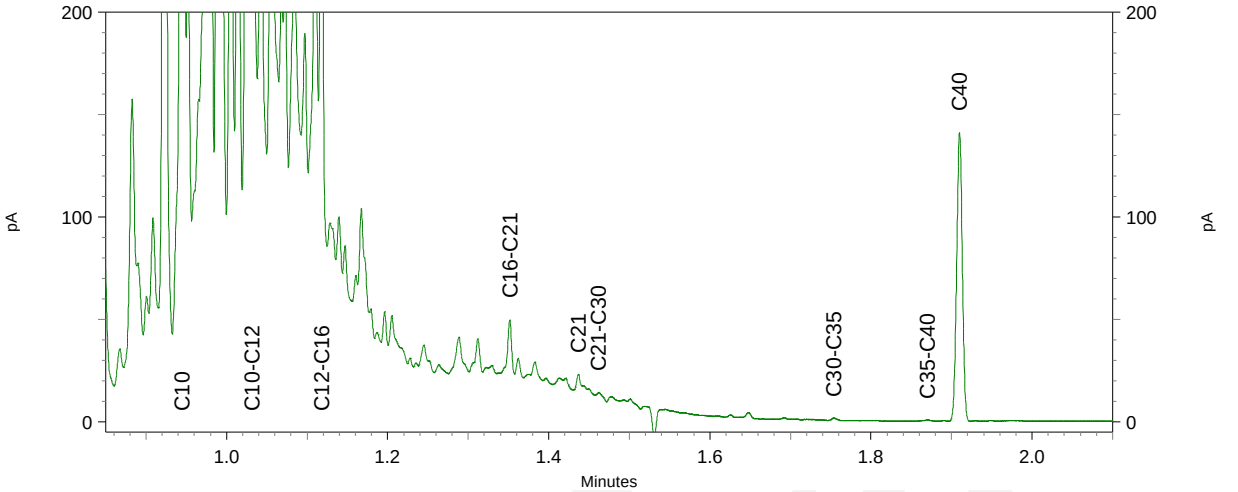


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734689
Certificate no.: 2020191944
Sample description.: 11
V

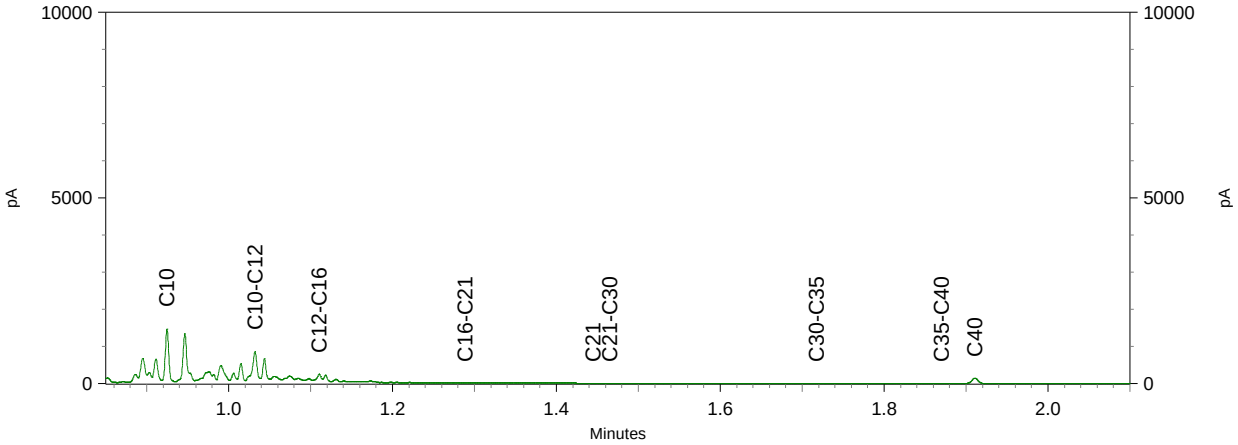


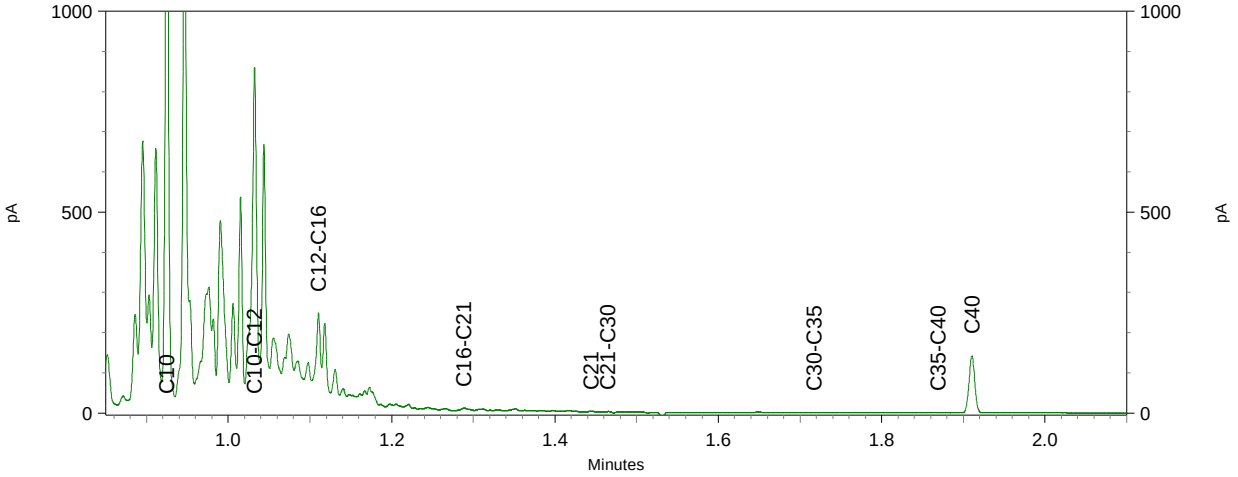


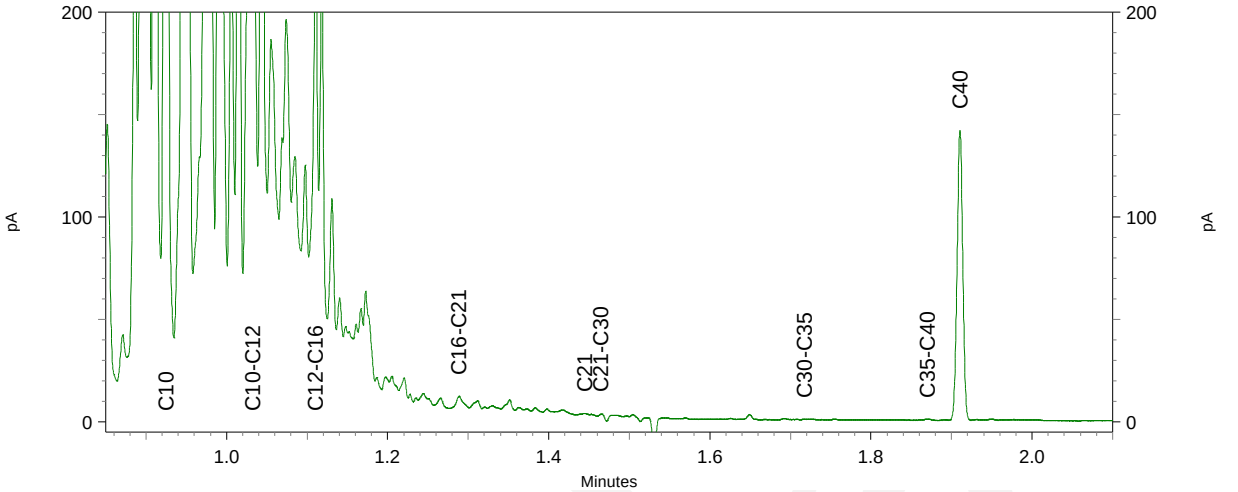


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734690
Certificate no.: 2020191944
Sample description.: 39
V

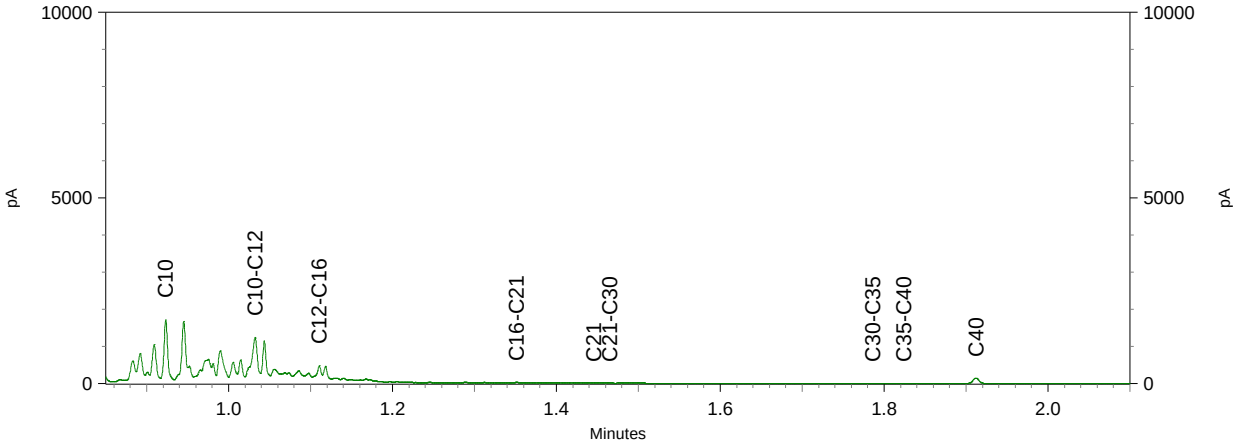


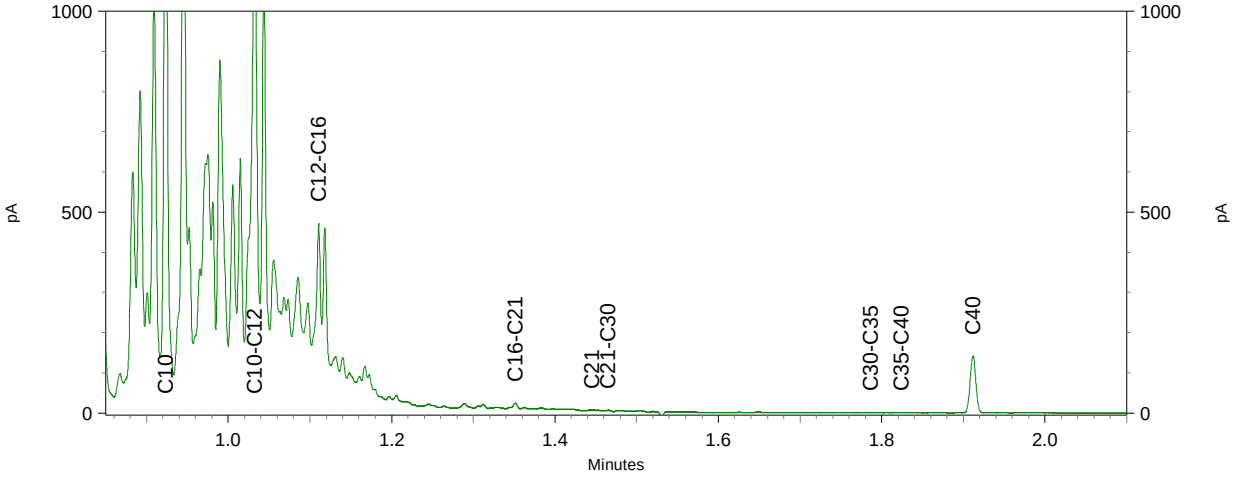


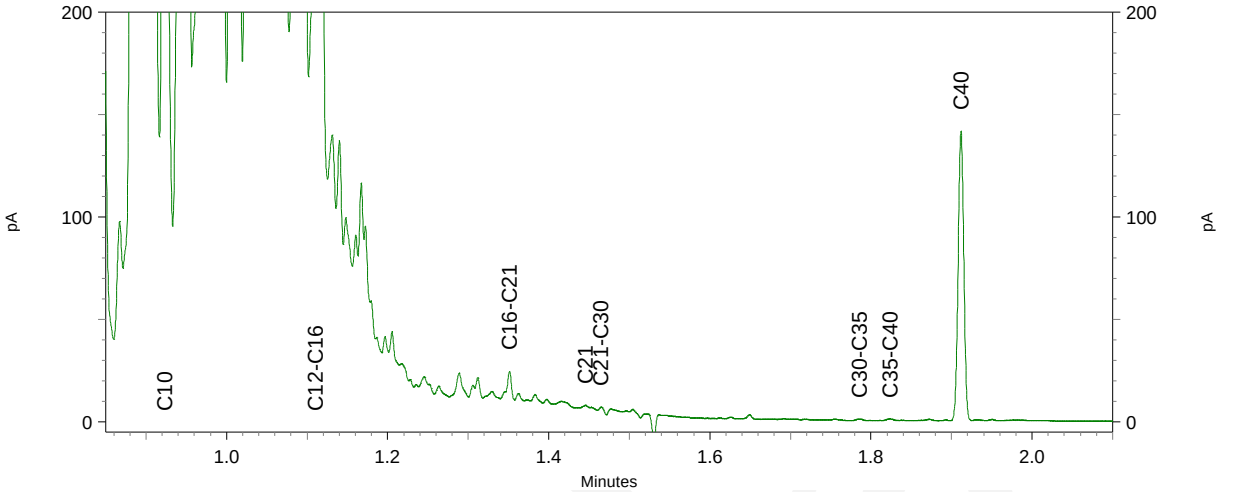


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734691
Certificate no.: 2020191944
Sample description.: VE22
V

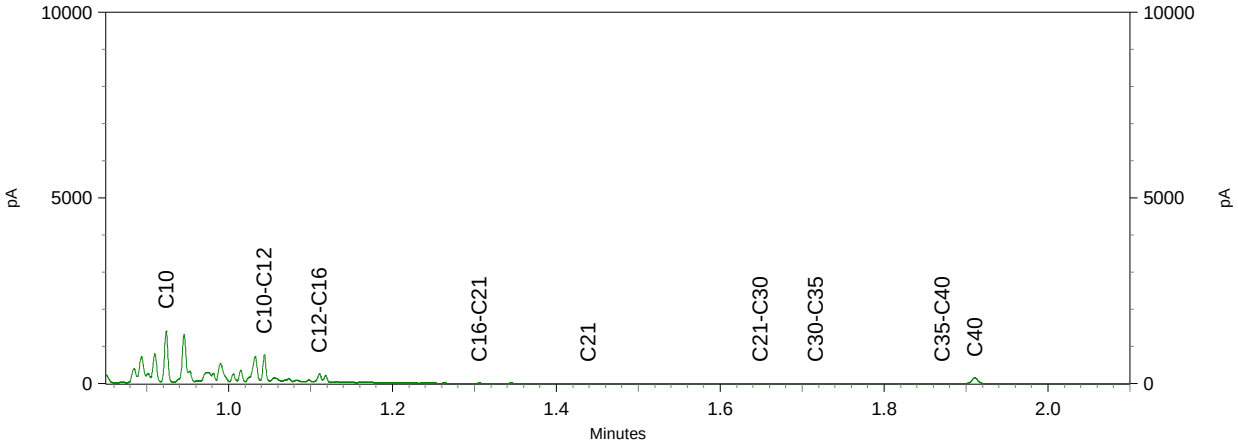


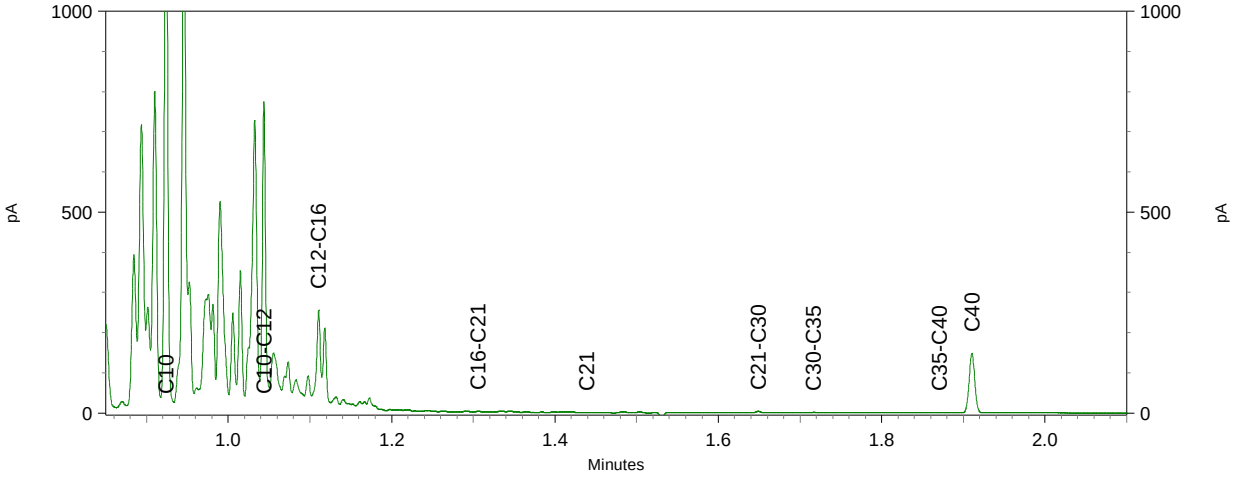


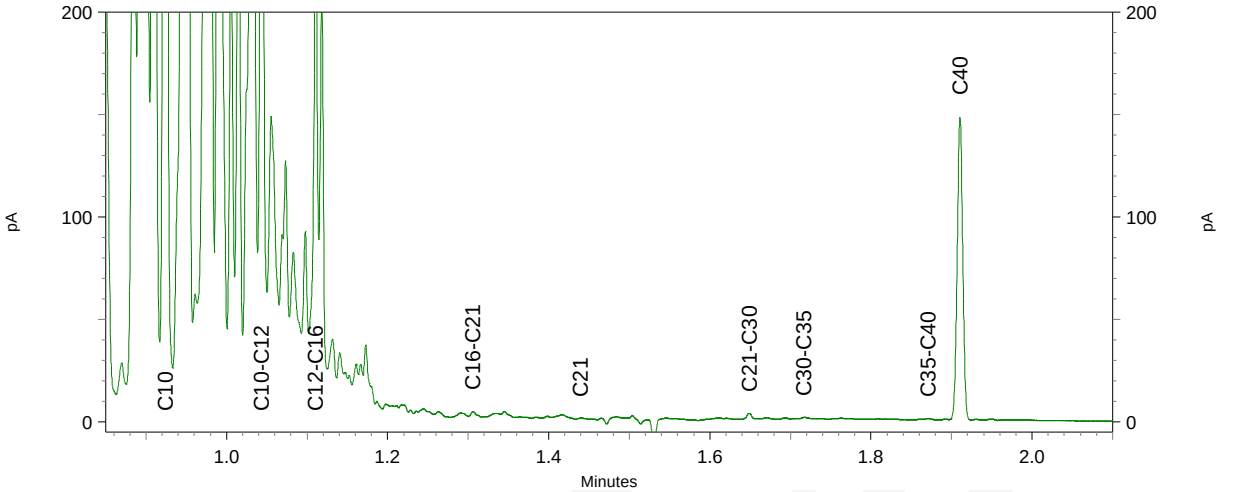


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734692
Certificate no.: 2020191944
Sample description.: VE21
V







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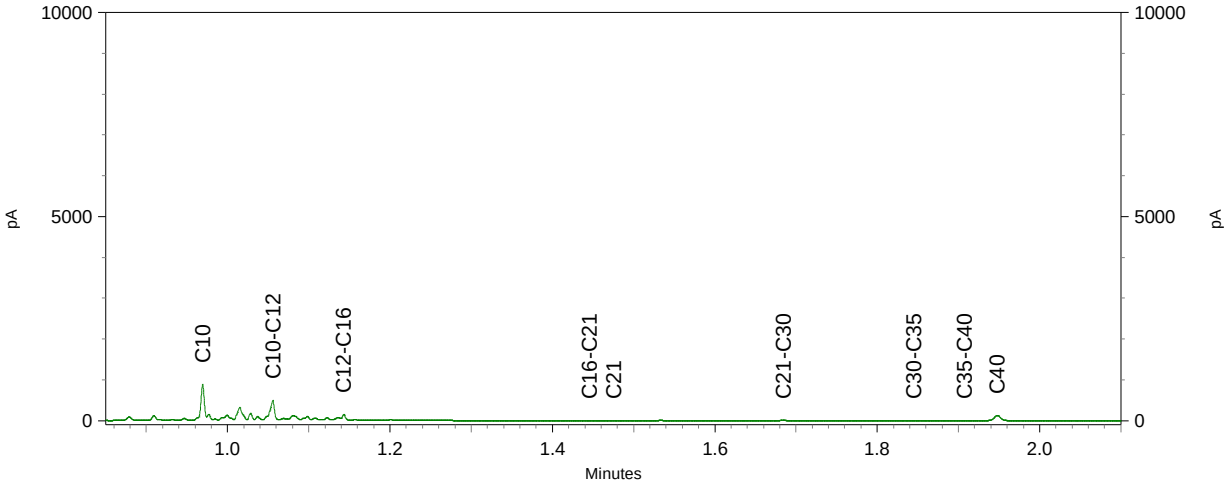
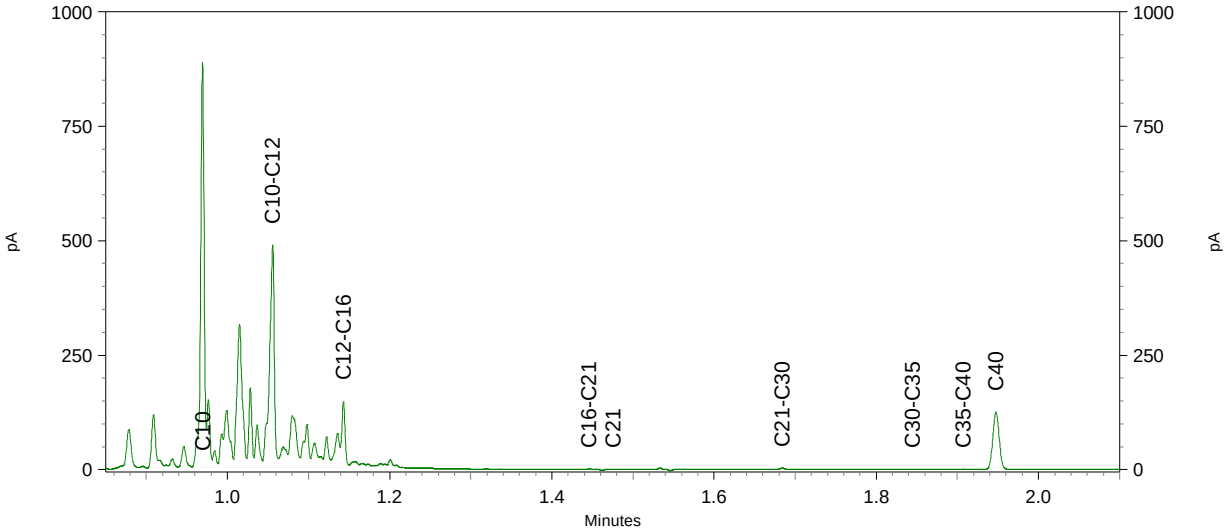
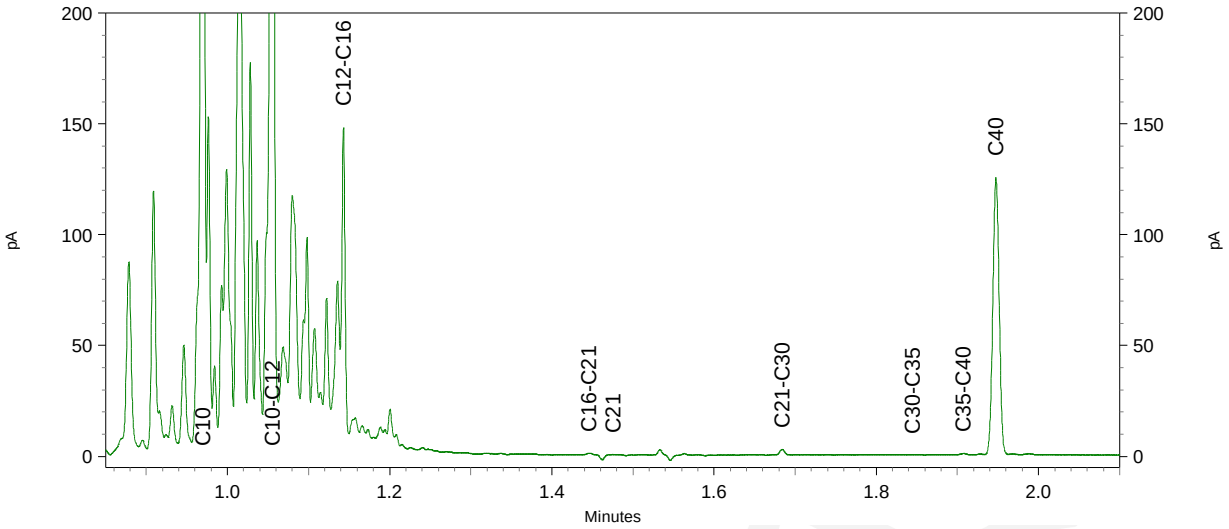
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734693
Certificate no.: 2020191944
Sample description.: VE1
V







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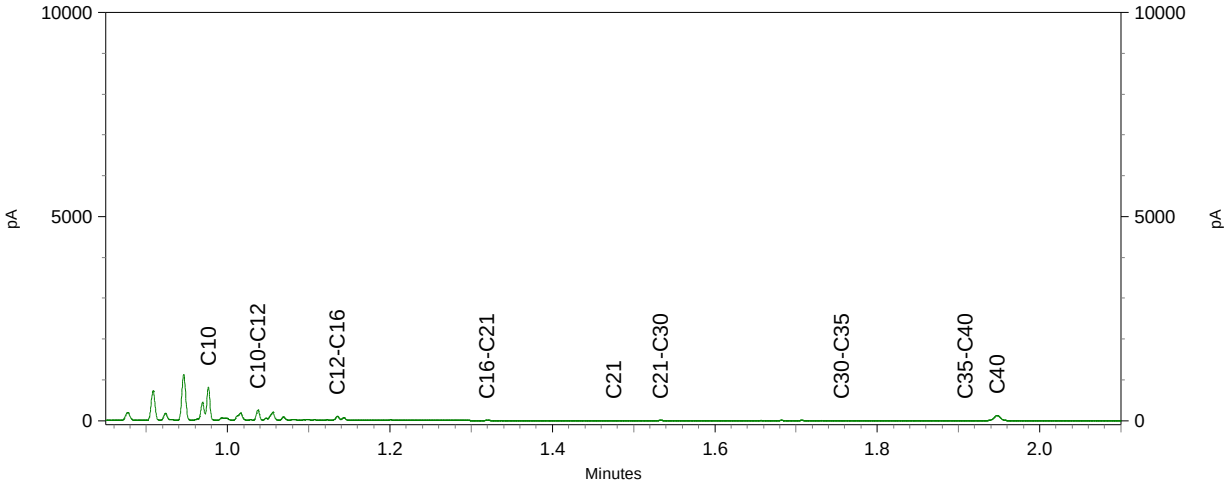
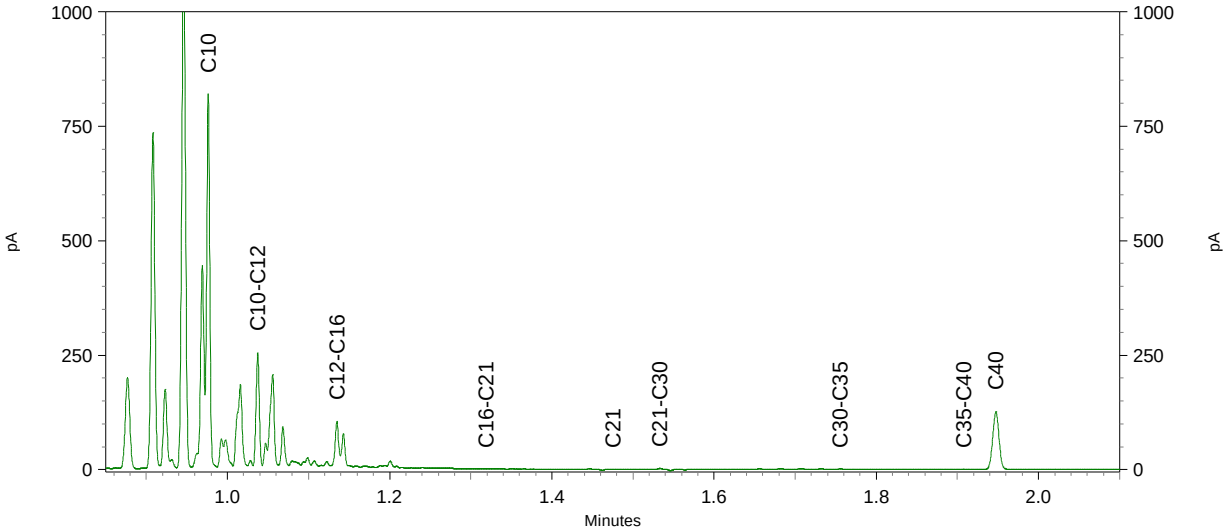
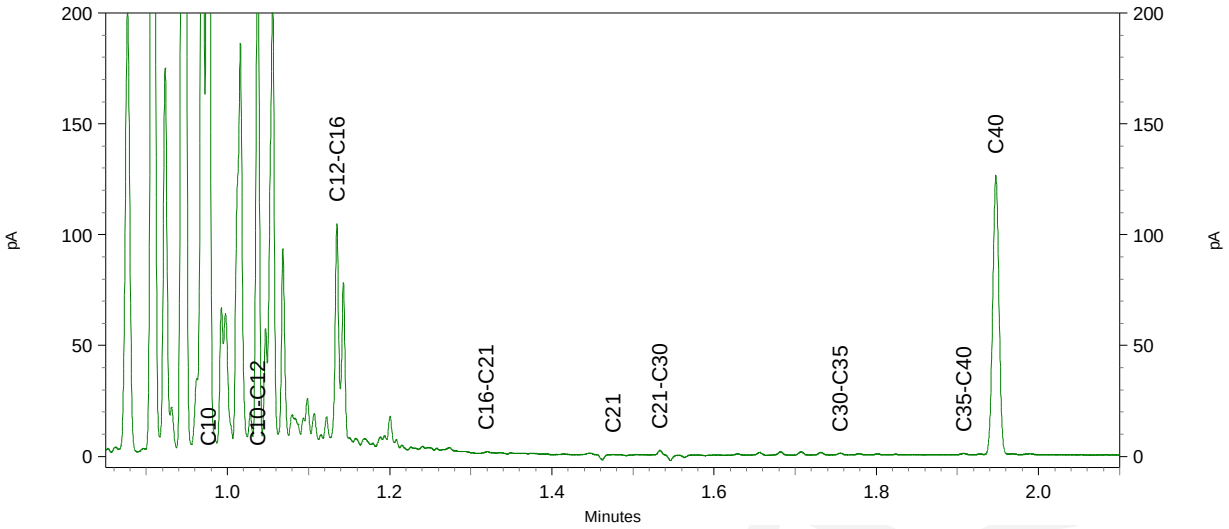
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734694
Certificate no.: 2020191944
Sample description.: 36
V







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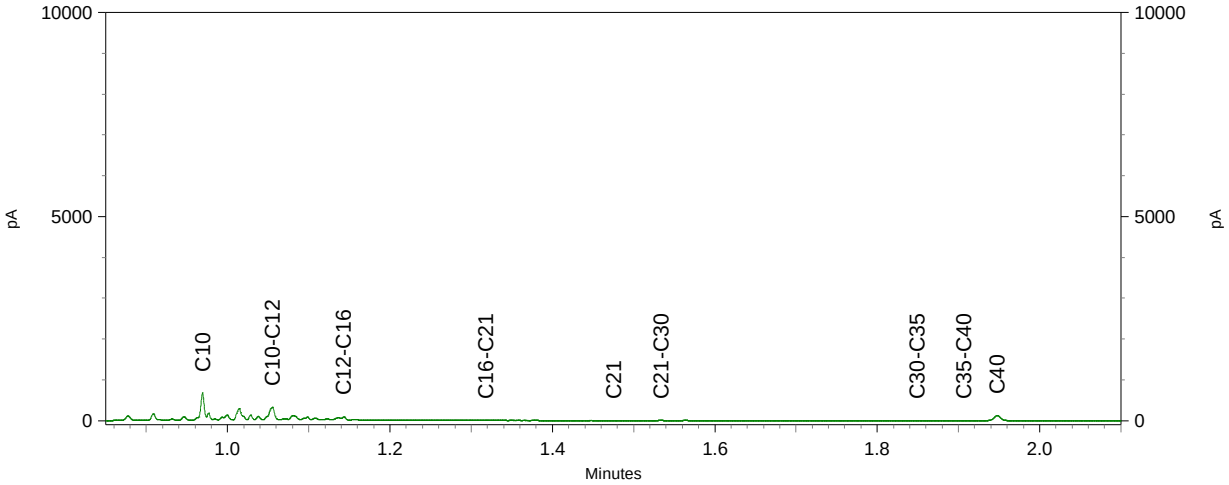
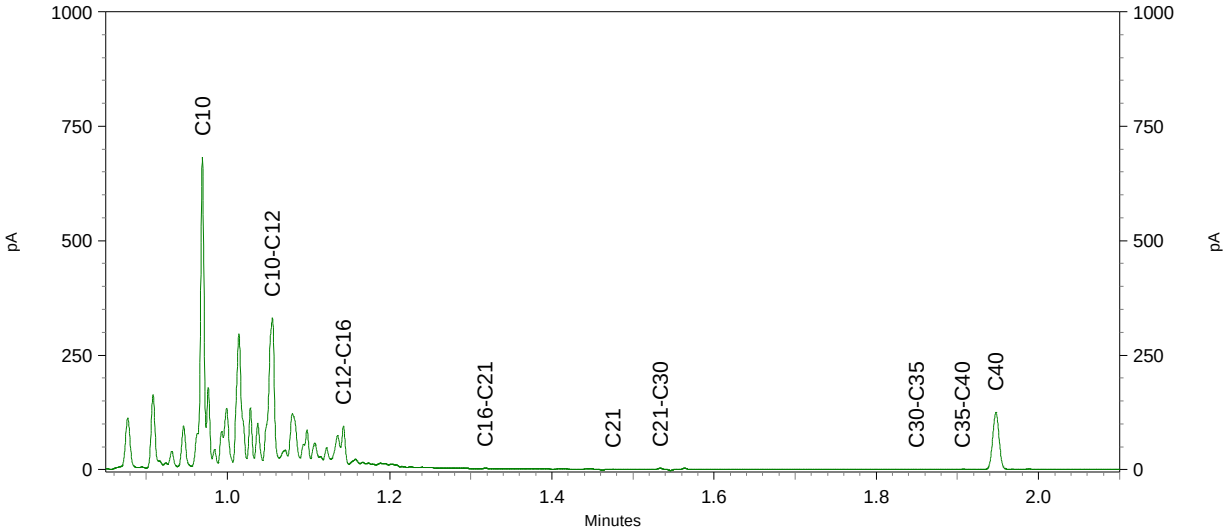
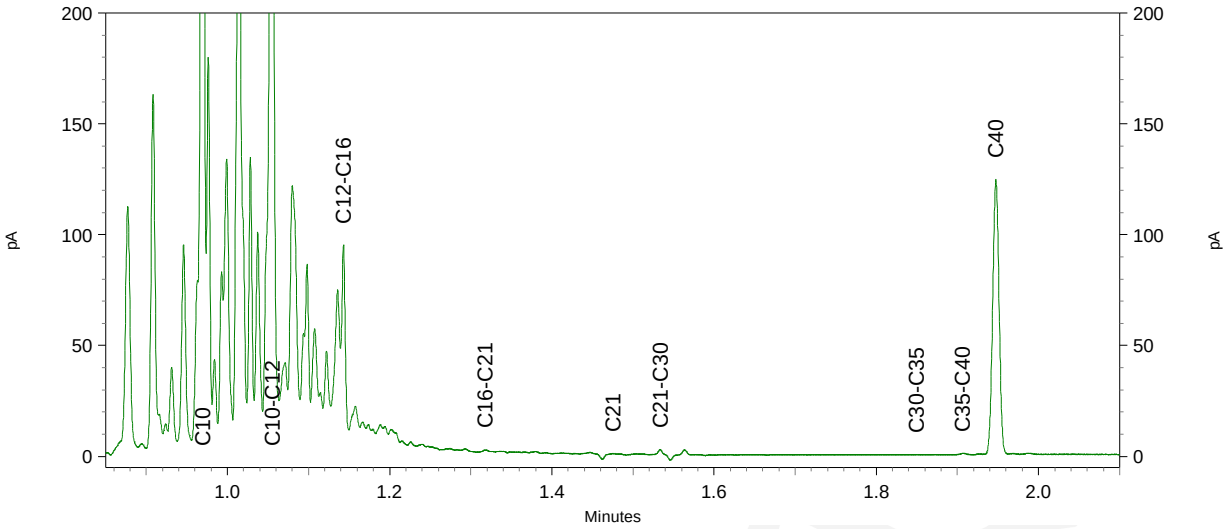
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734695
Certificate no.: 2020191944
Sample description.: VE29
V







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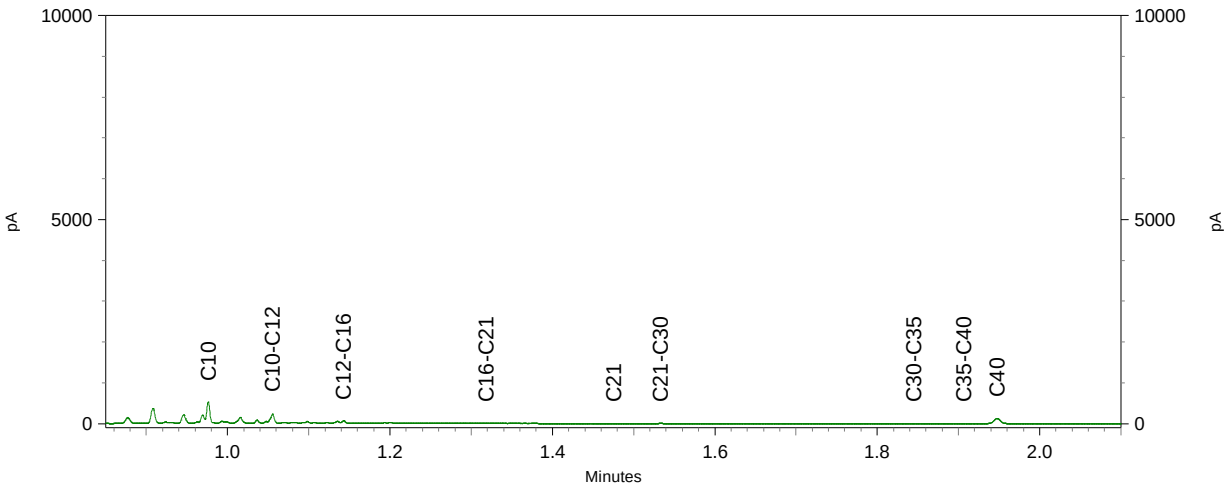
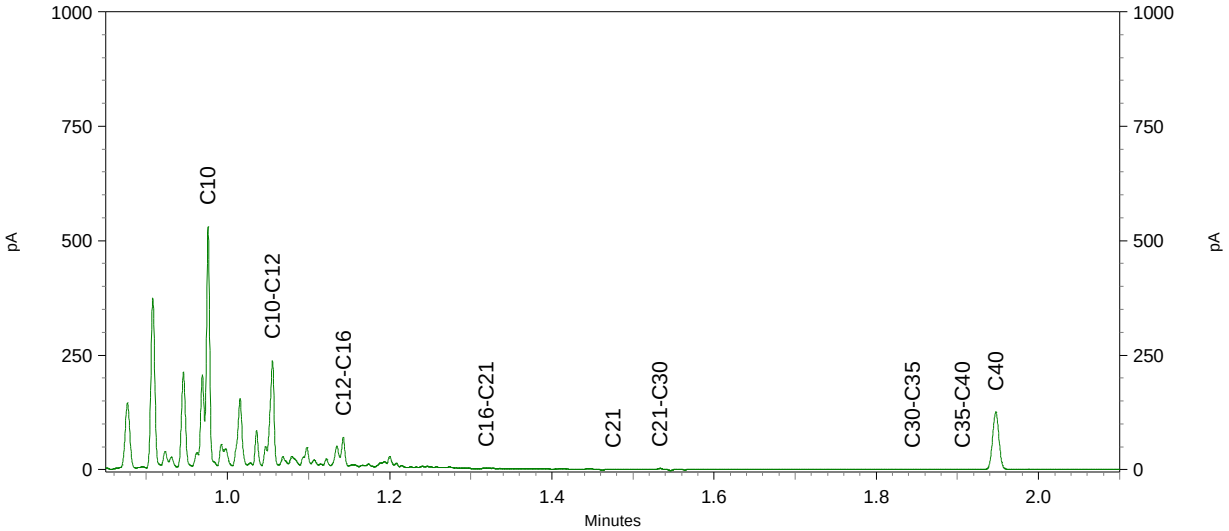
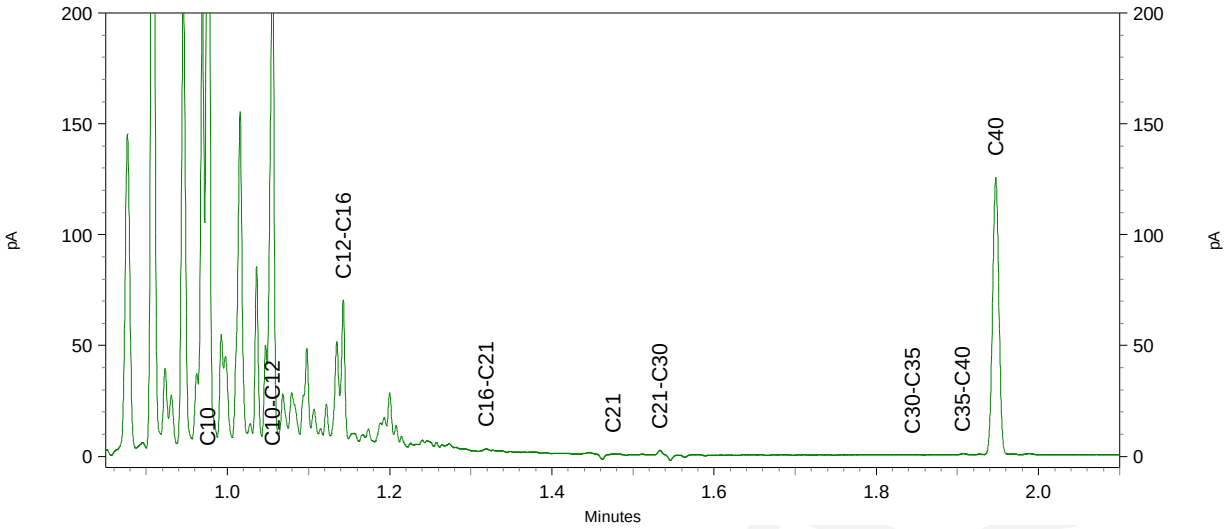
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734696
Certificate no.: 2020191944
Sample description.: 34
V







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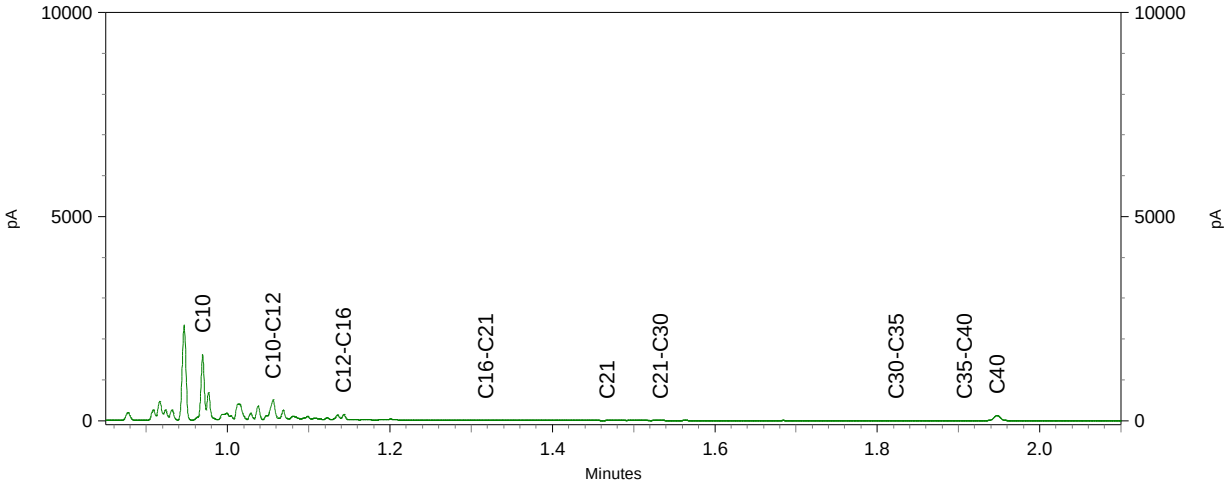
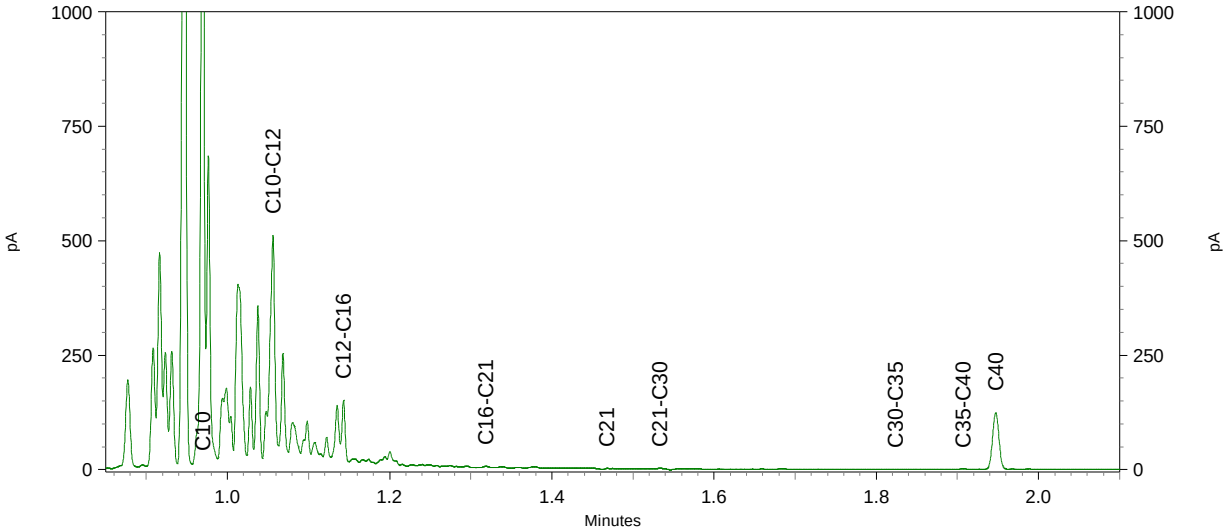
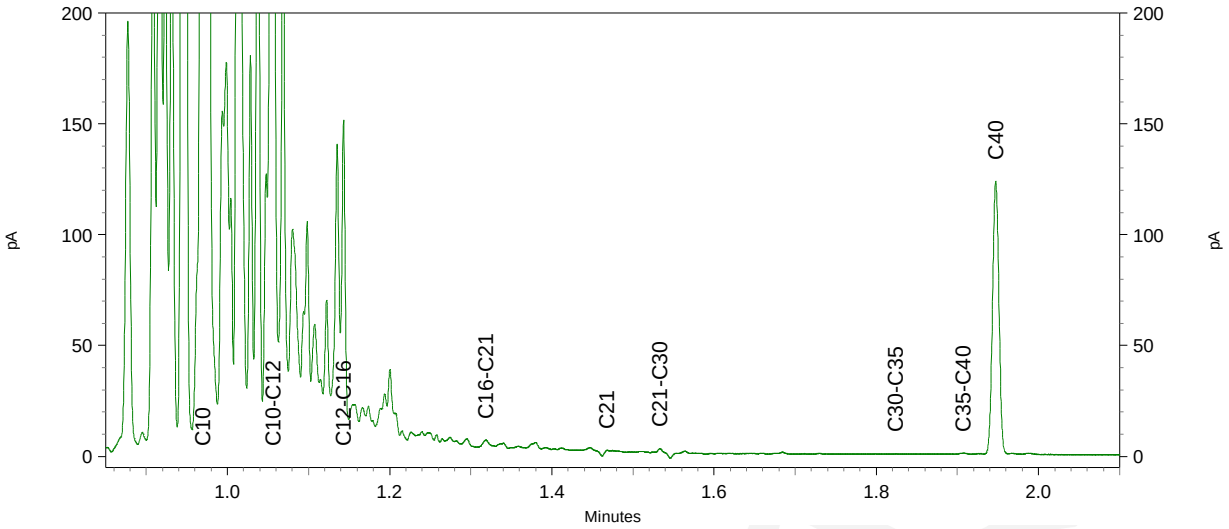
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734697
Certificate no.: 2020191944
Sample description.: VE6
V







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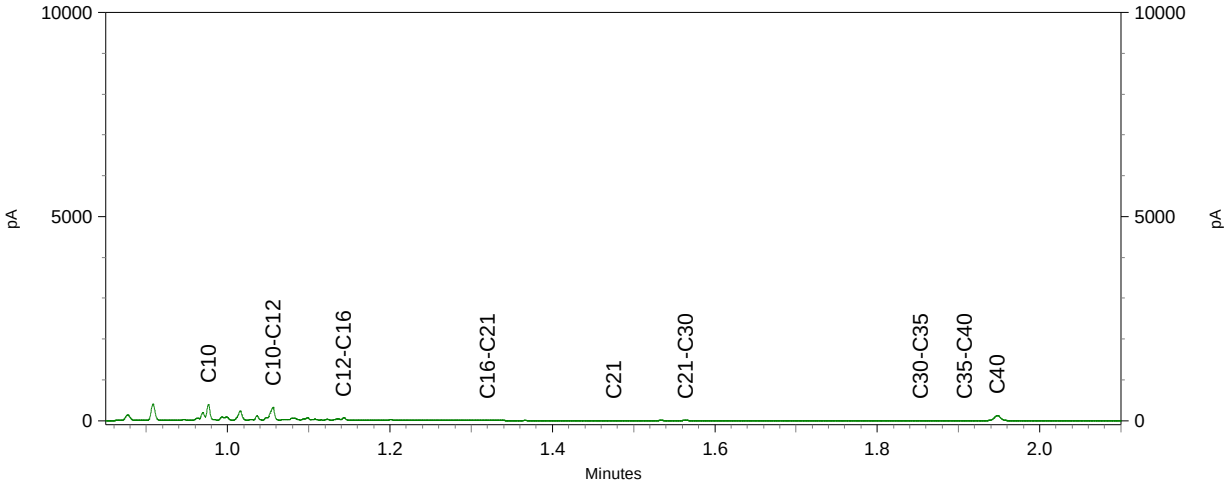
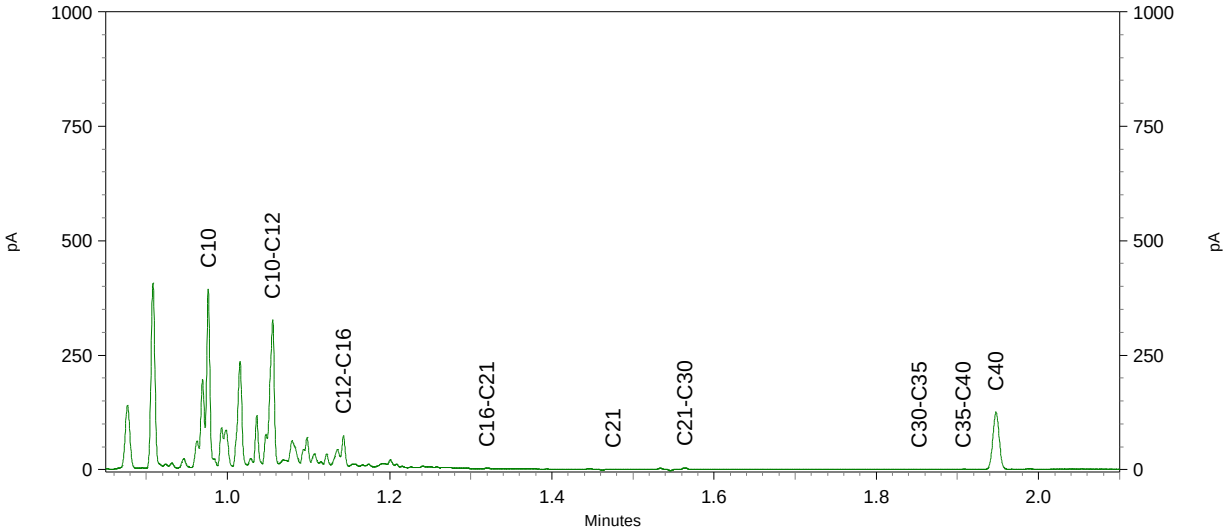
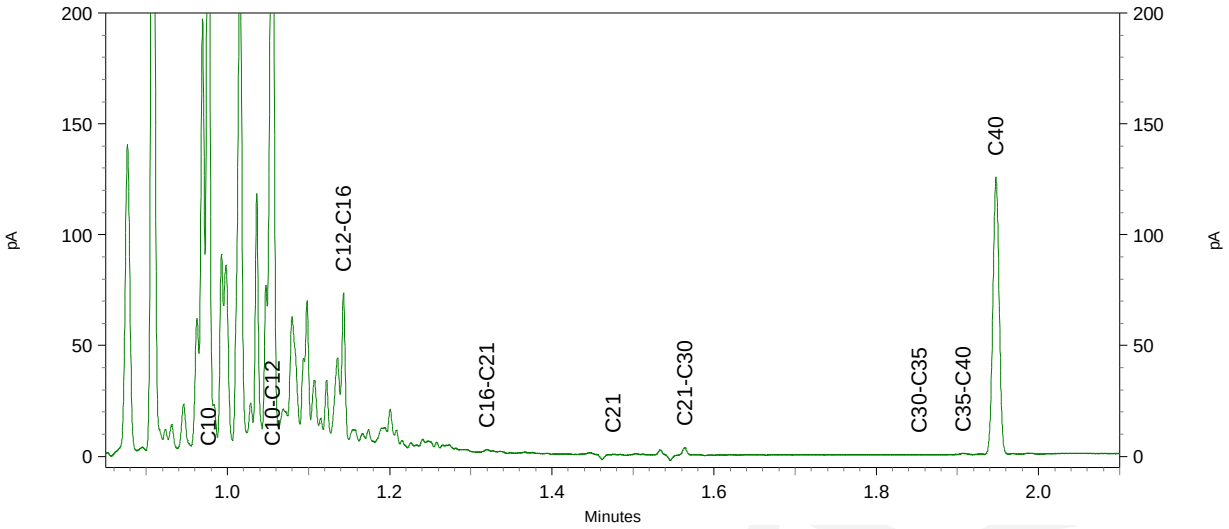
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734698
Certificate no.: 2020191944
Sample description.: VE23
V







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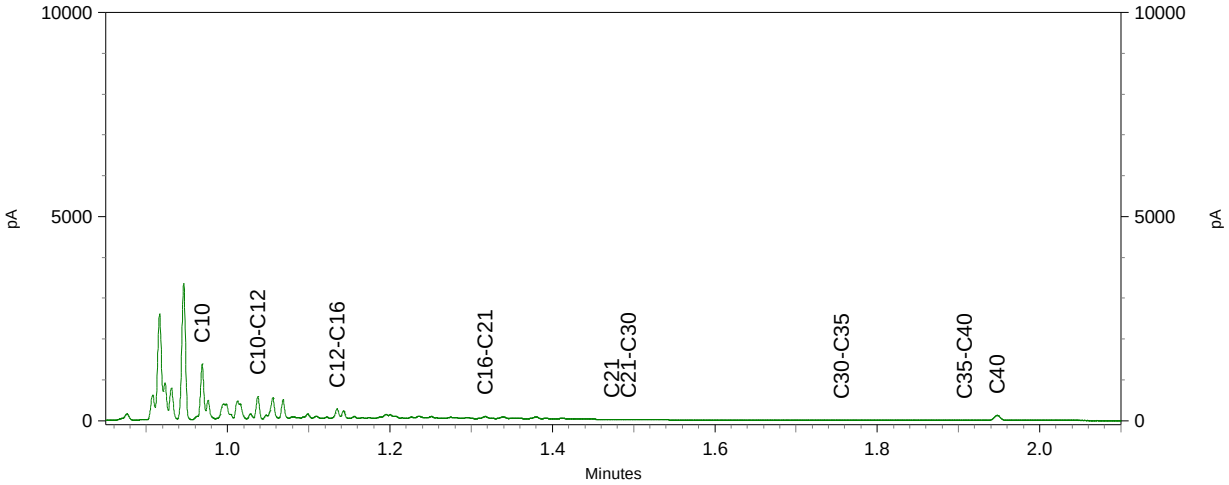
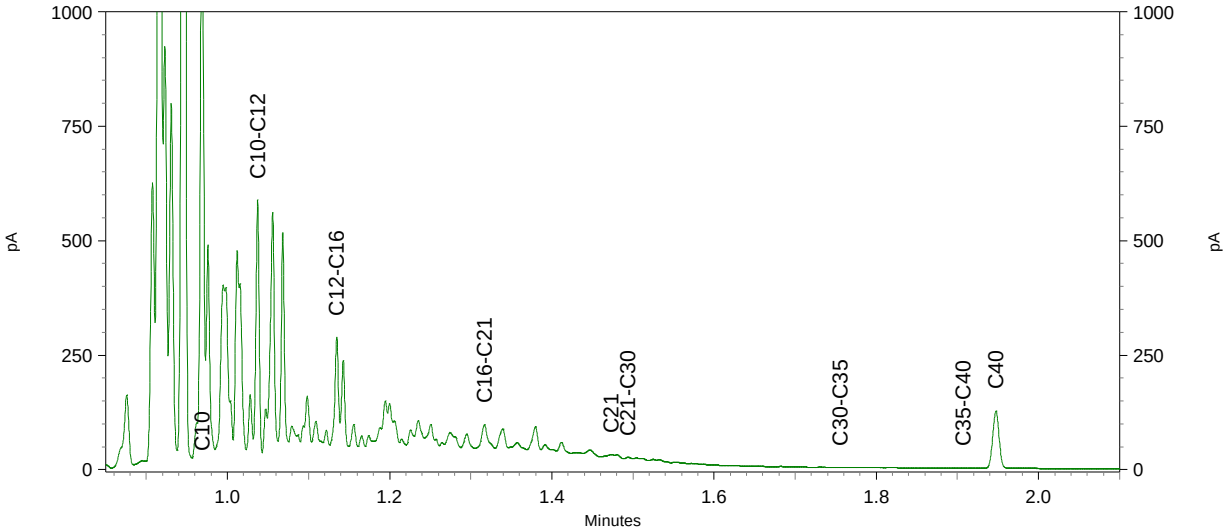
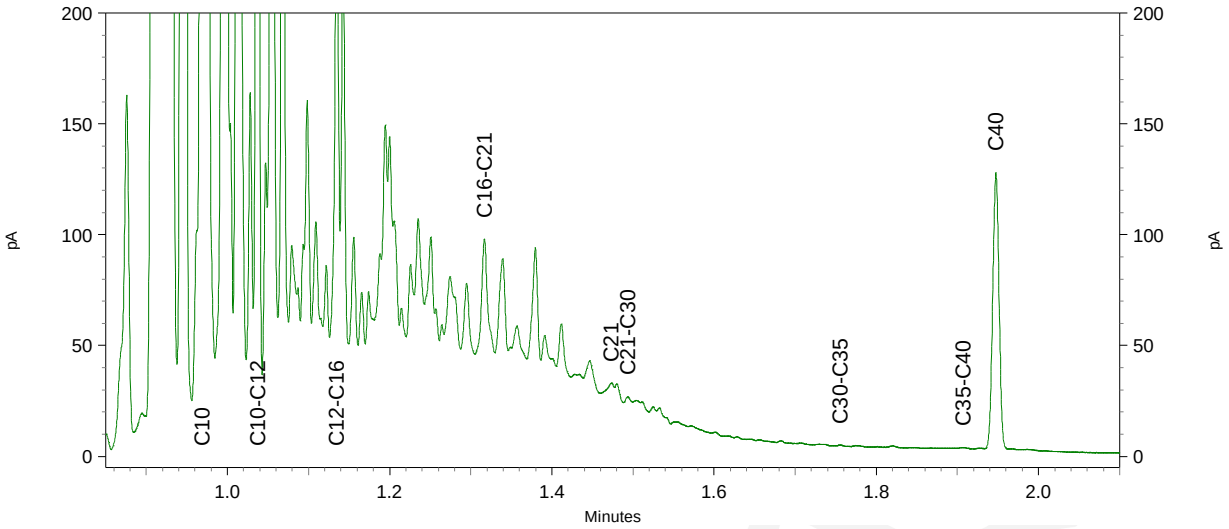
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734699
Certificate no.: 2020191944
Sample description.: 117
V







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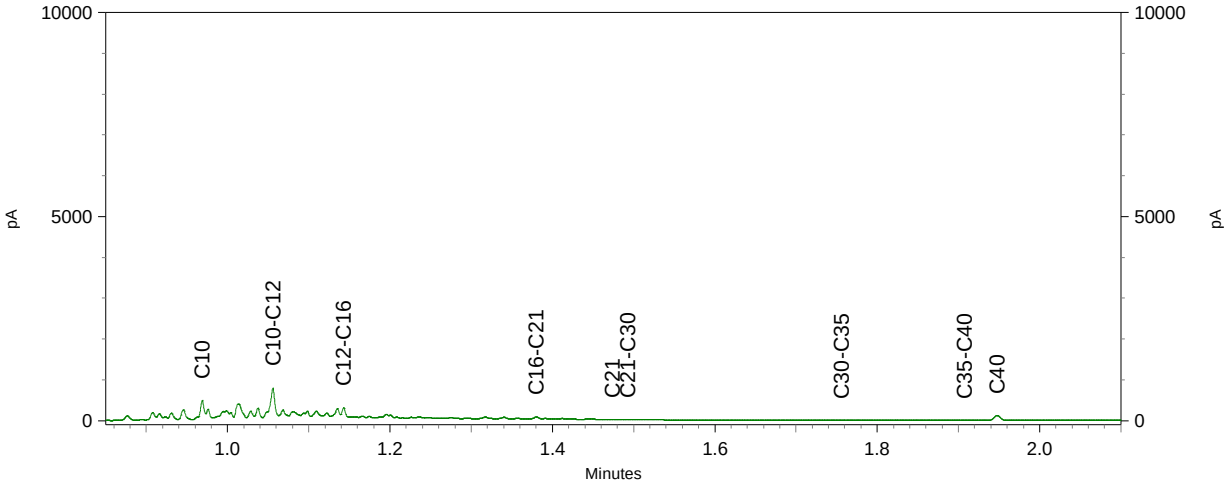
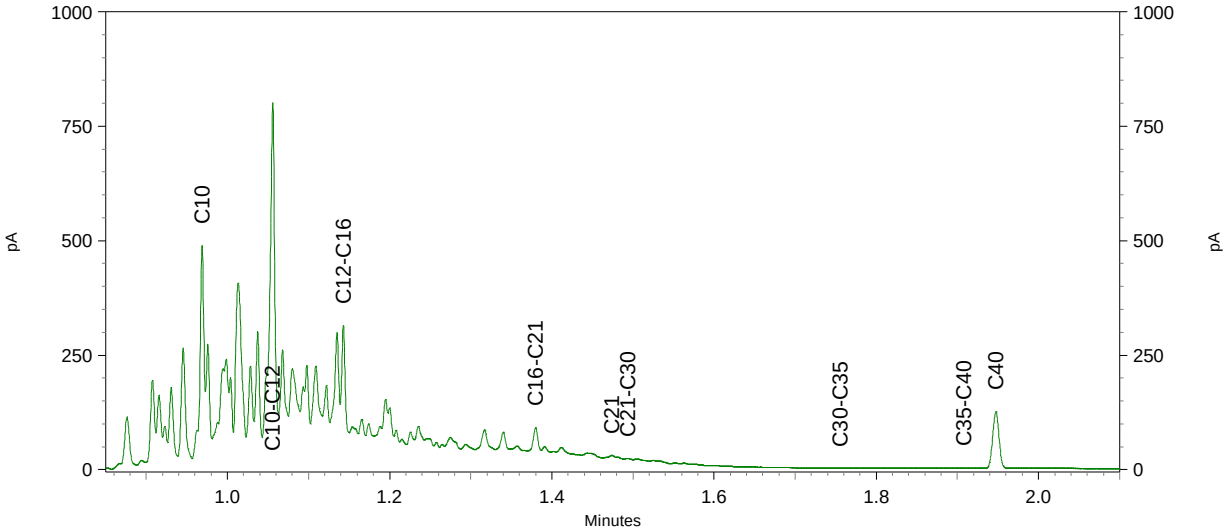
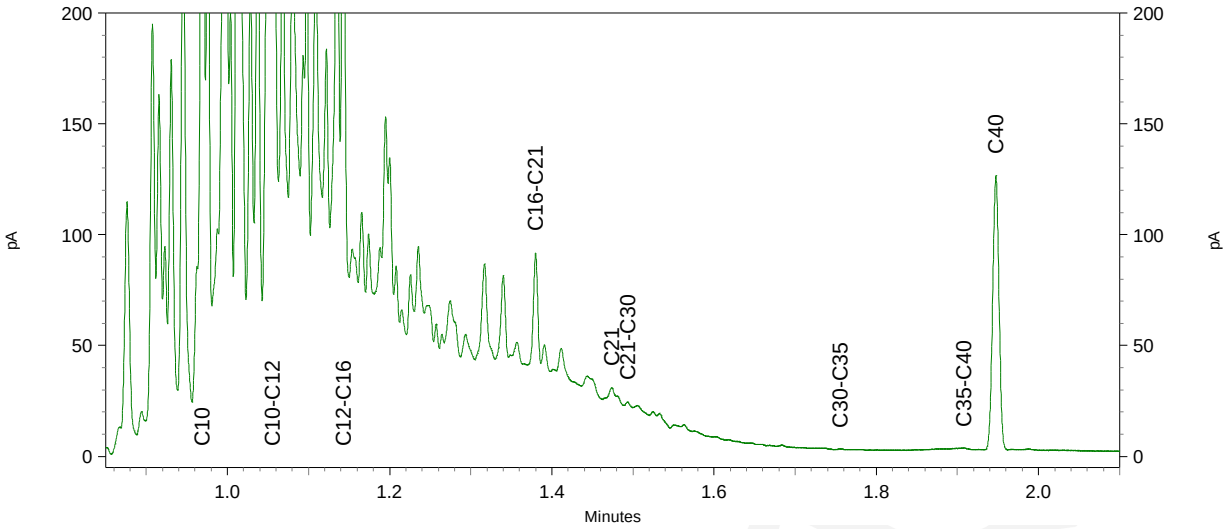
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734700
Certificate no.: 2020191944
Sample description.: 134
V







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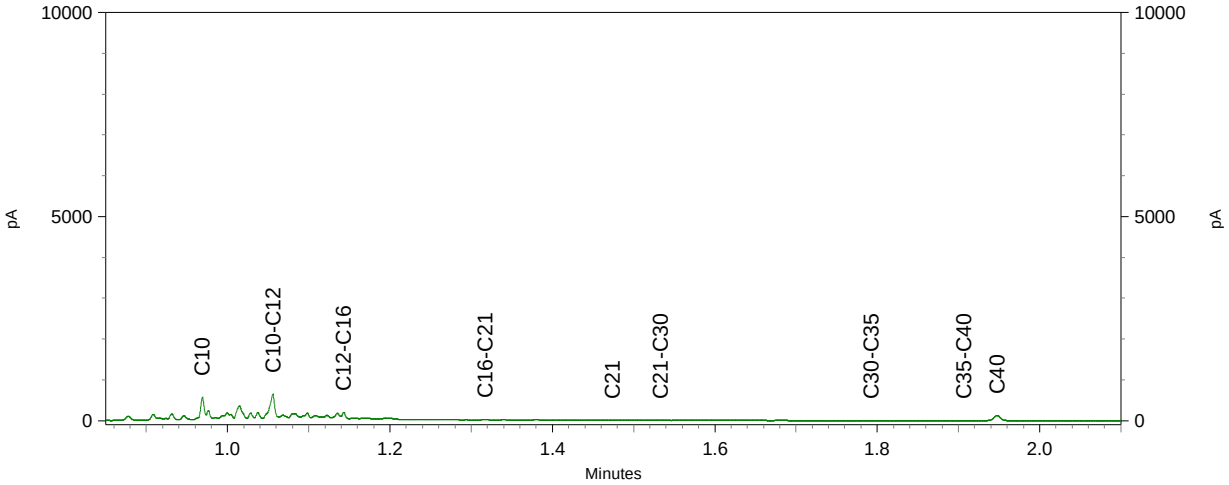
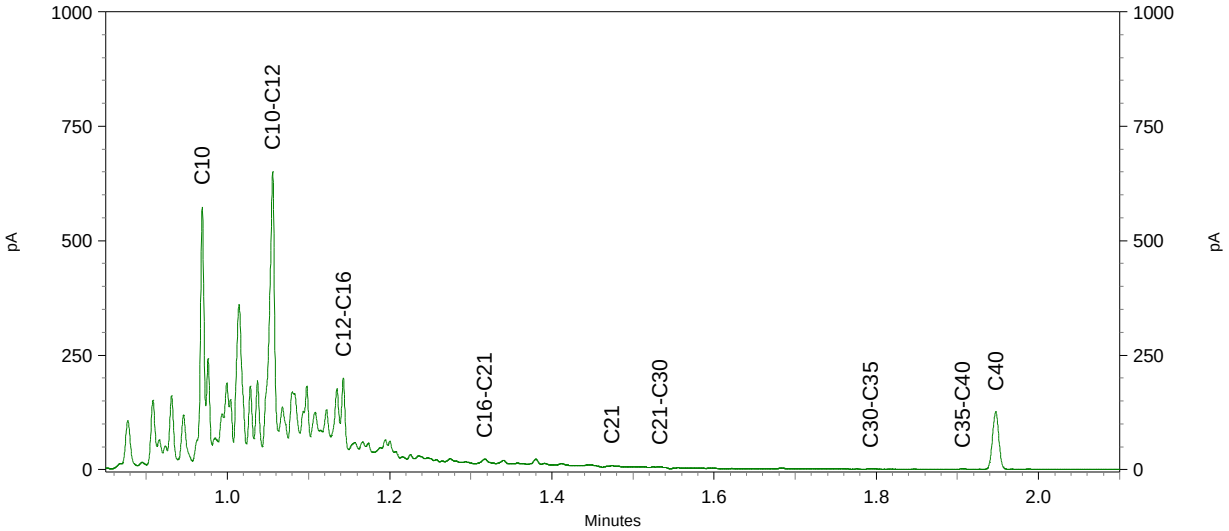
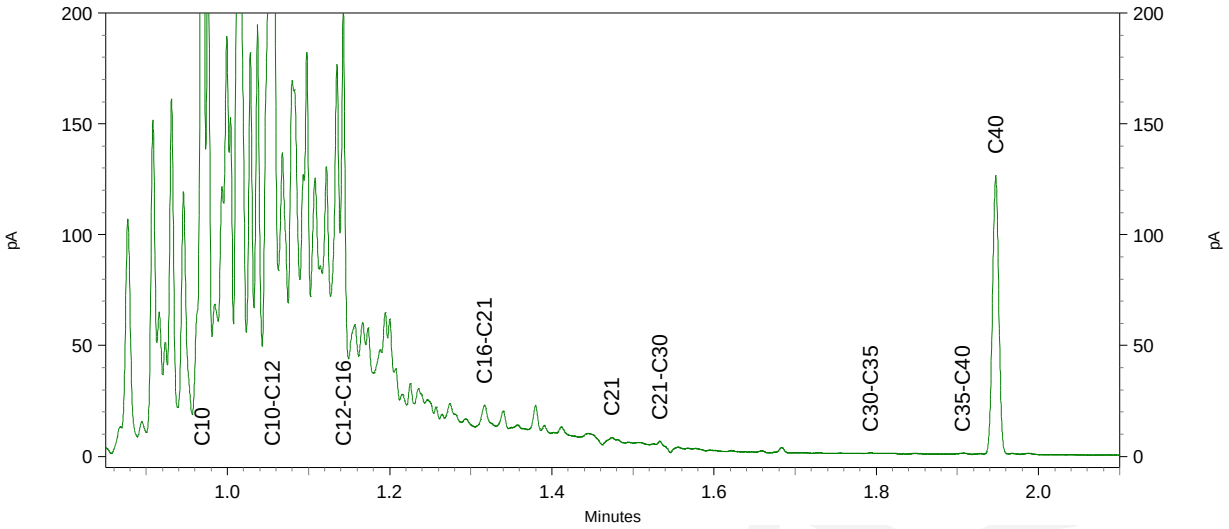
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734701
Certificate no.: 2020191944
Sample description.: 146
V







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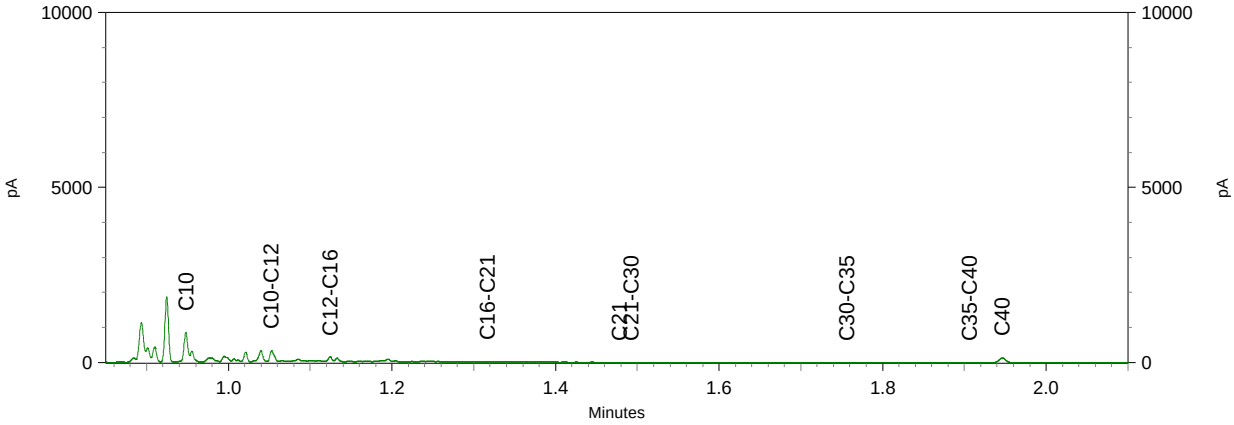
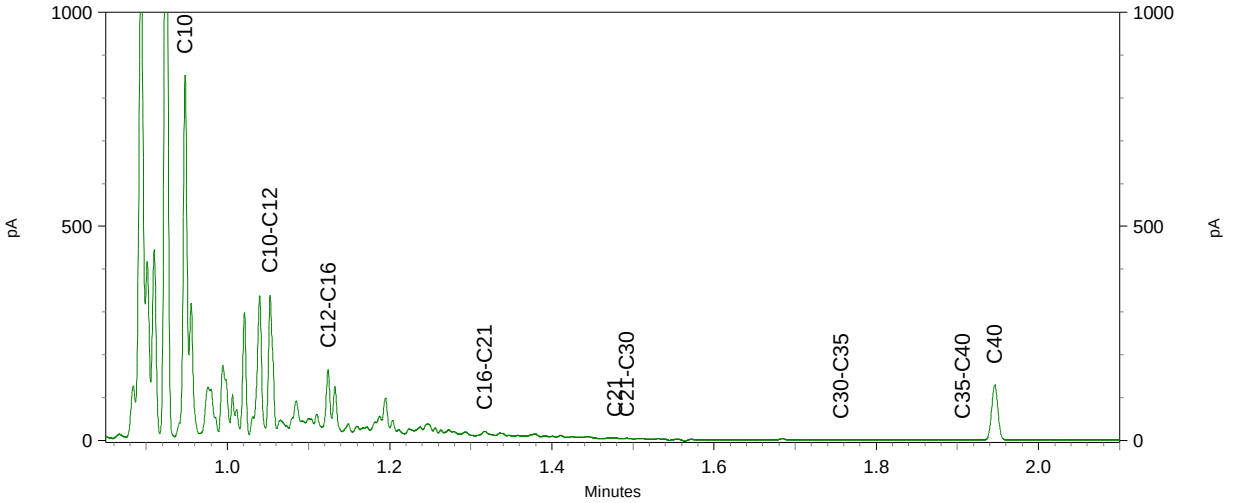
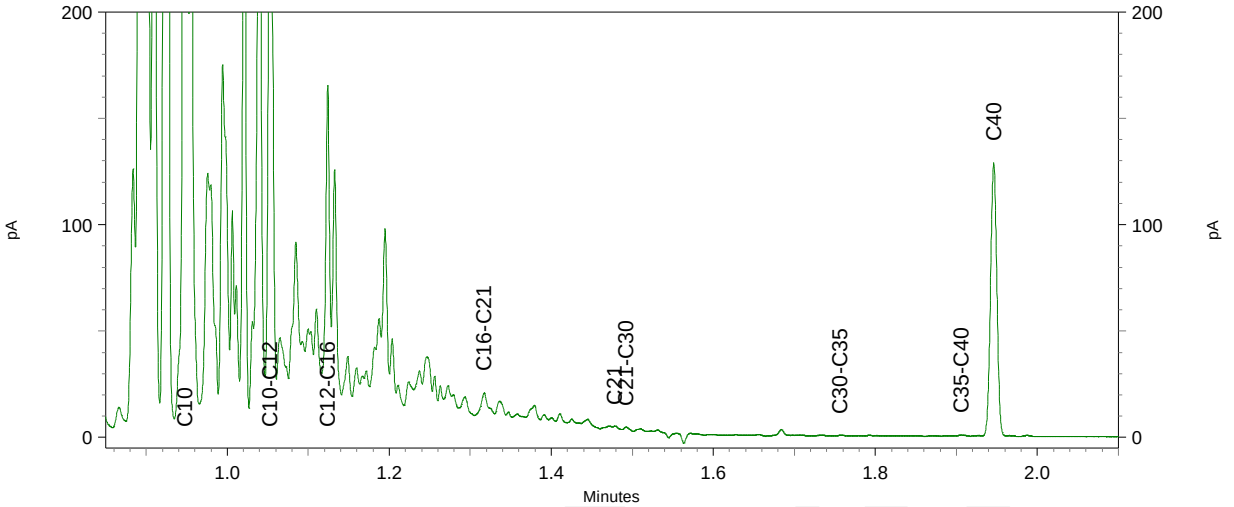
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734702
Certificate no.: 2020191944
Sample description.: 105
V

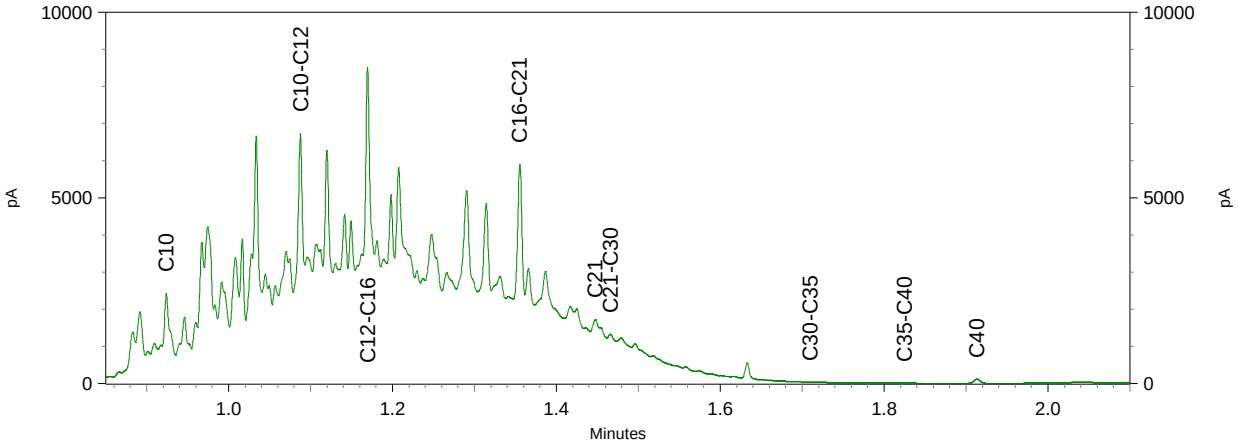


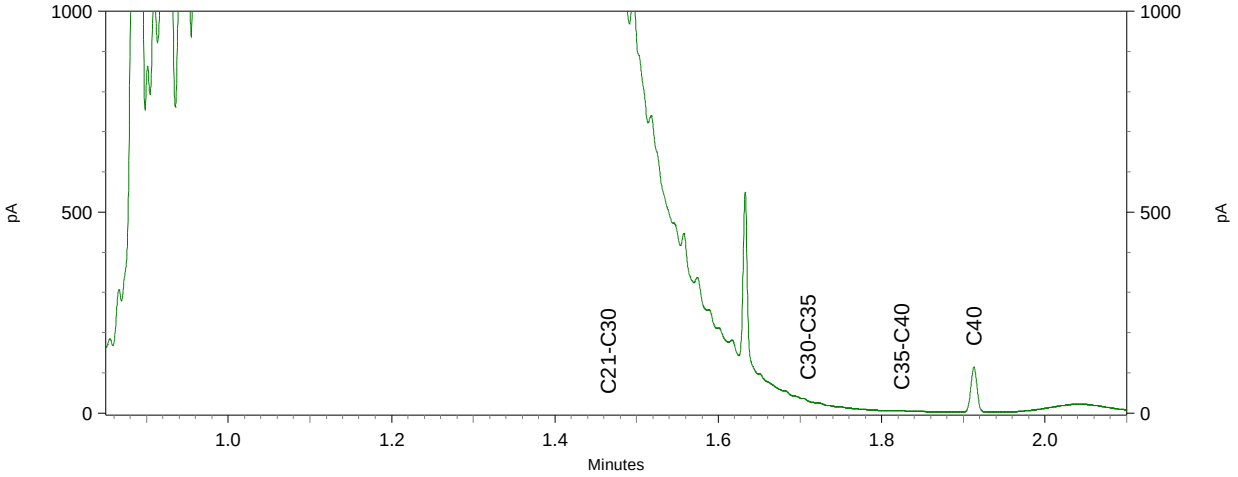


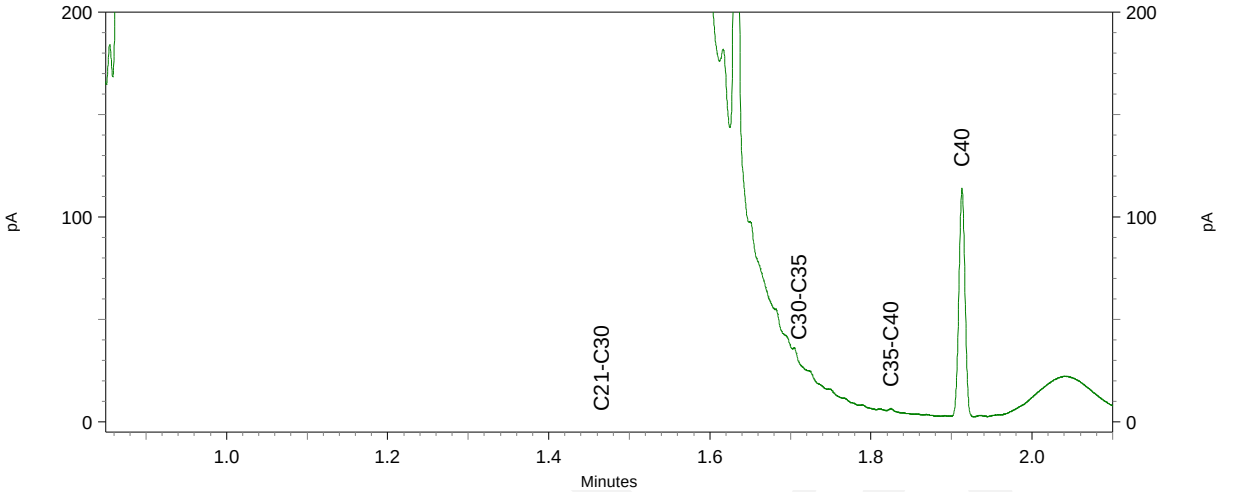


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734703 HI 10 VV + SPOEL
Certificate no.: 2020191944
Sample description.: VE14
V







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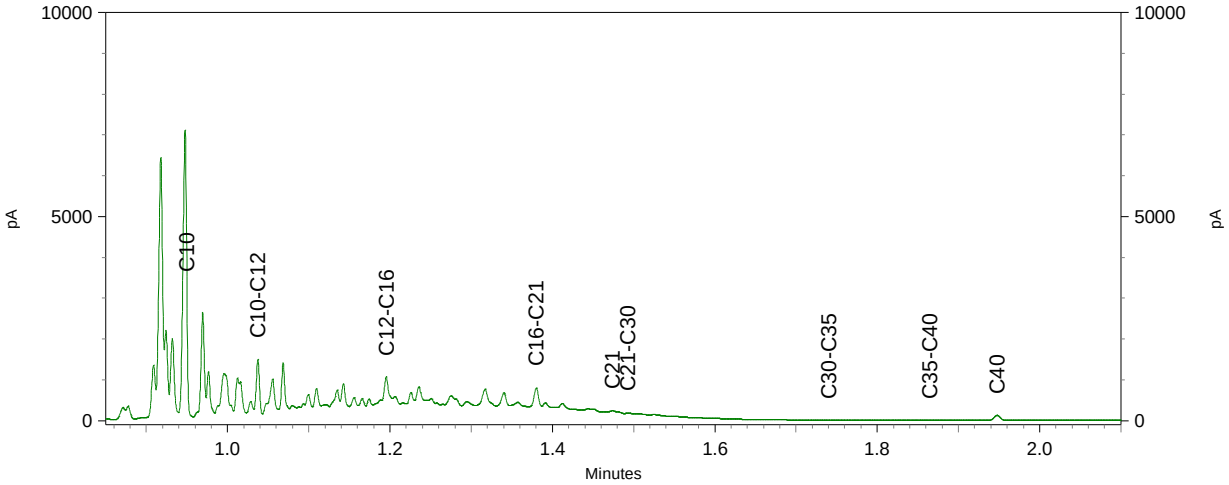
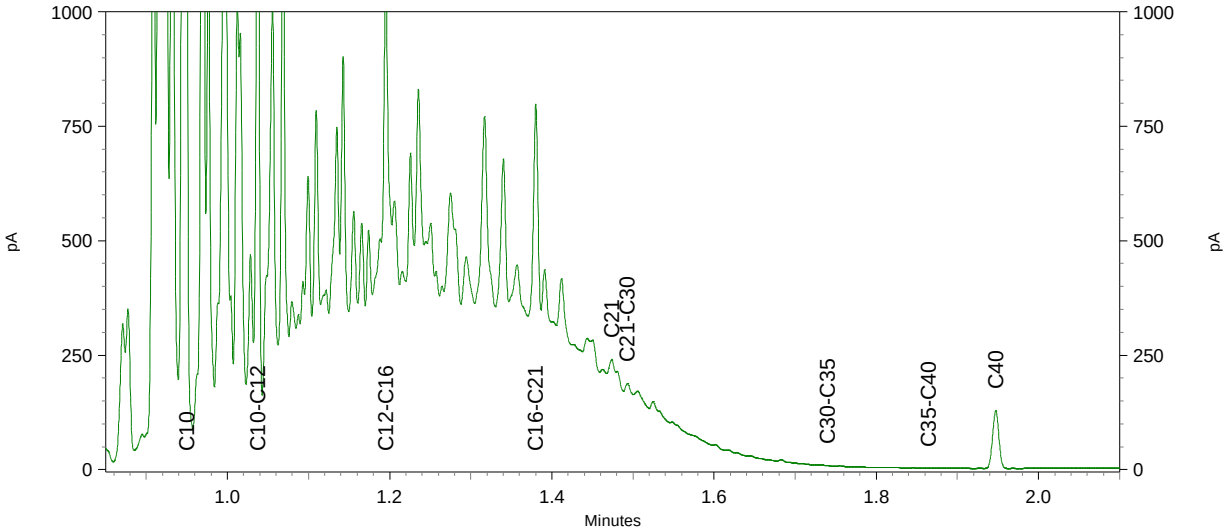
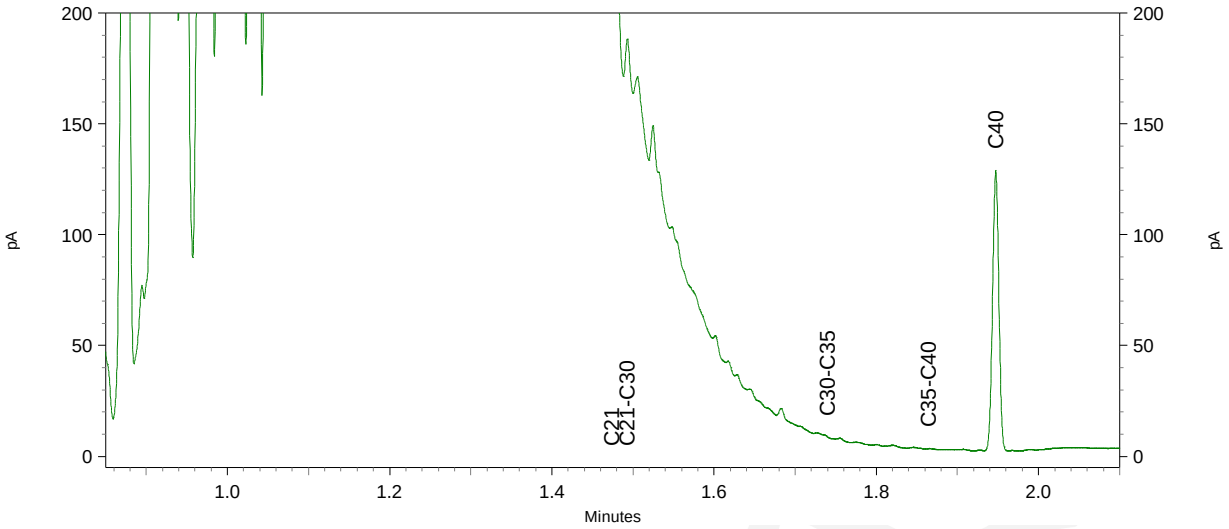
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734704
Certificate no.: 2020191944
Sample description.: 107
V







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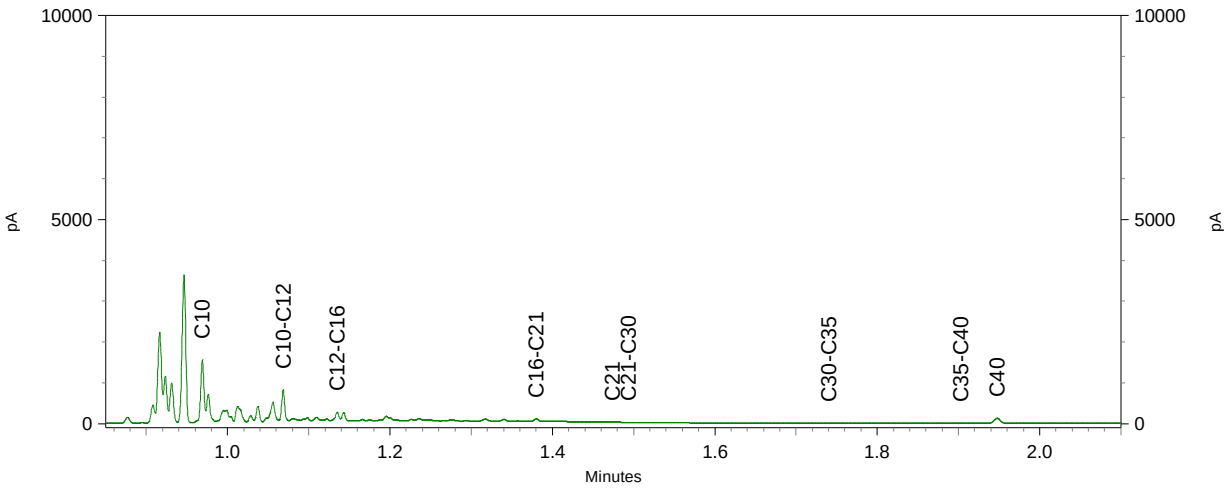
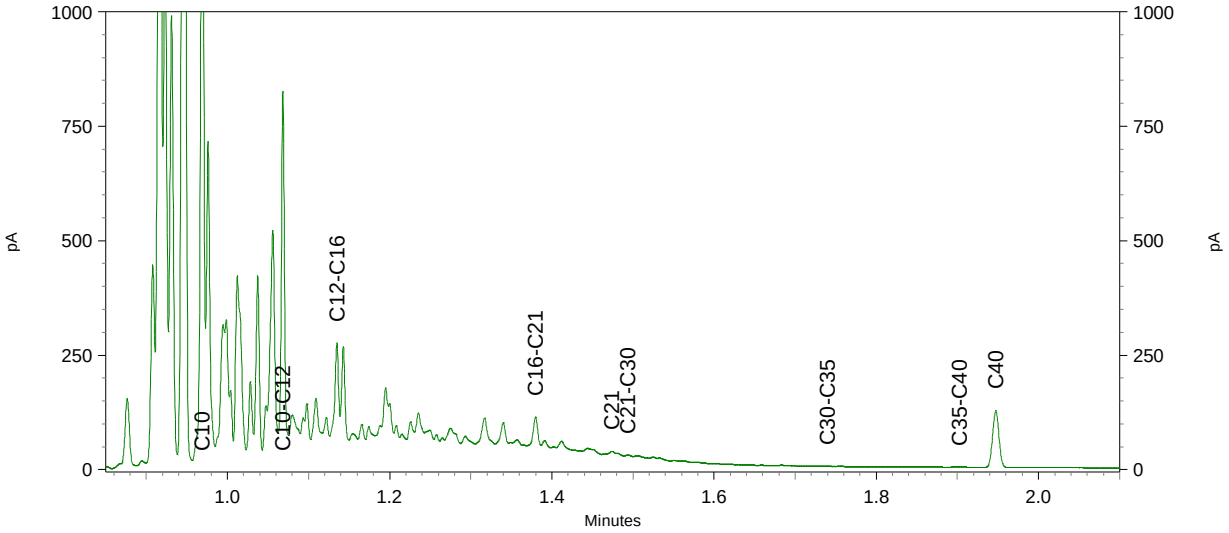
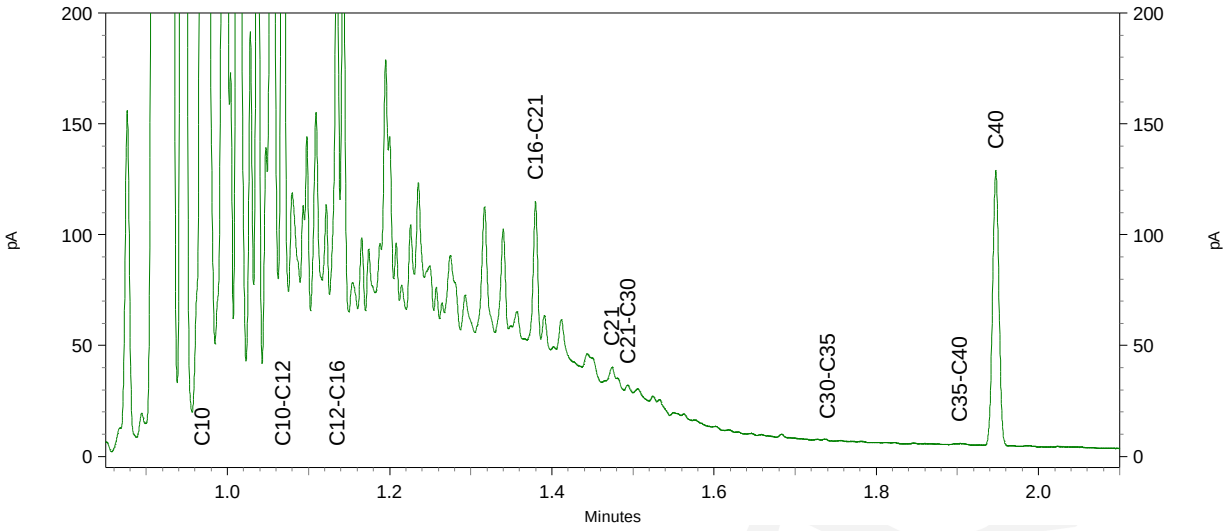
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734705
Certificate no.: 2020191944
Sample description.: 123
V







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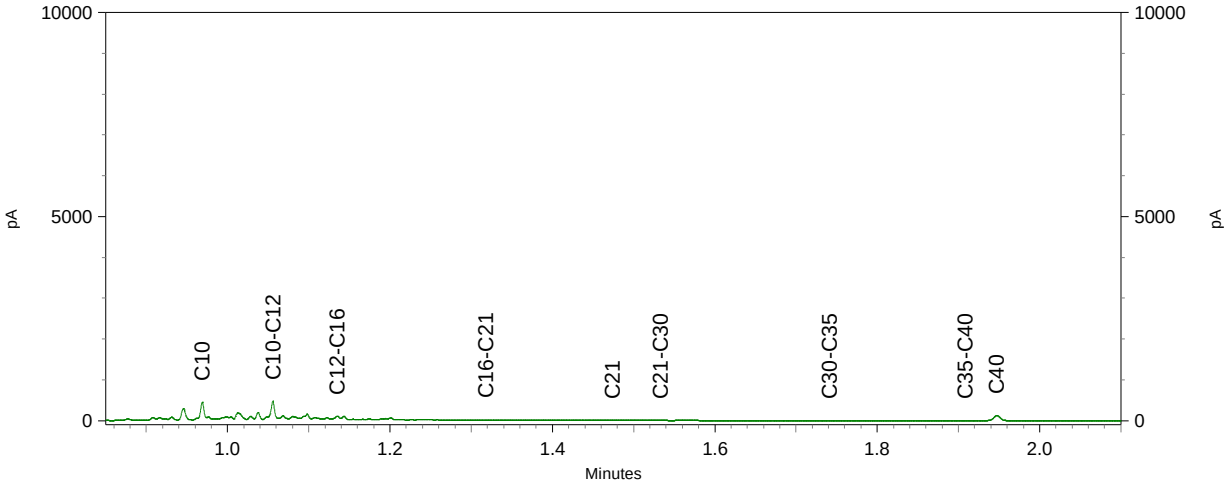
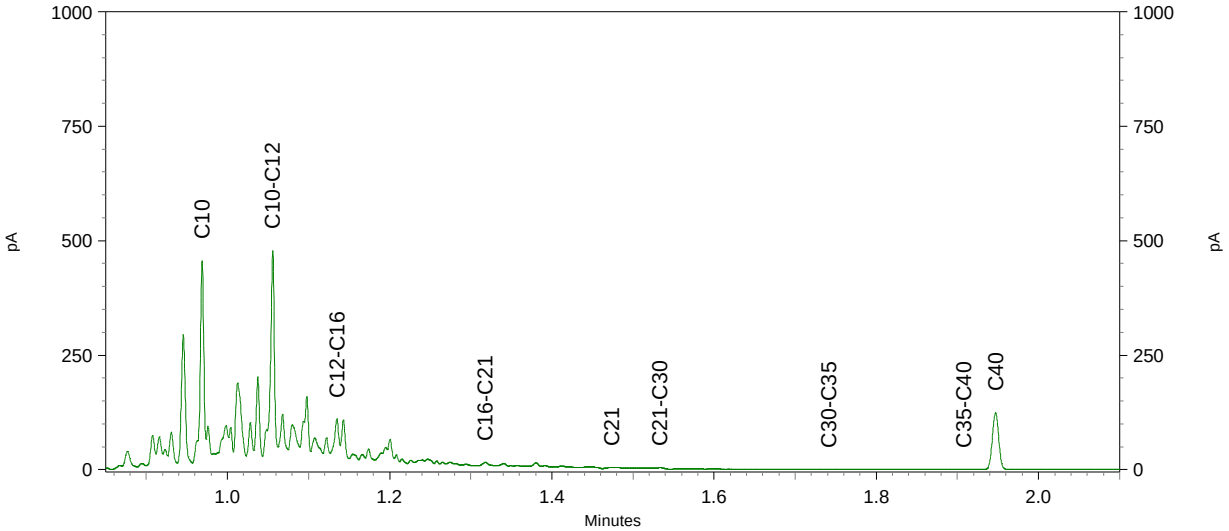
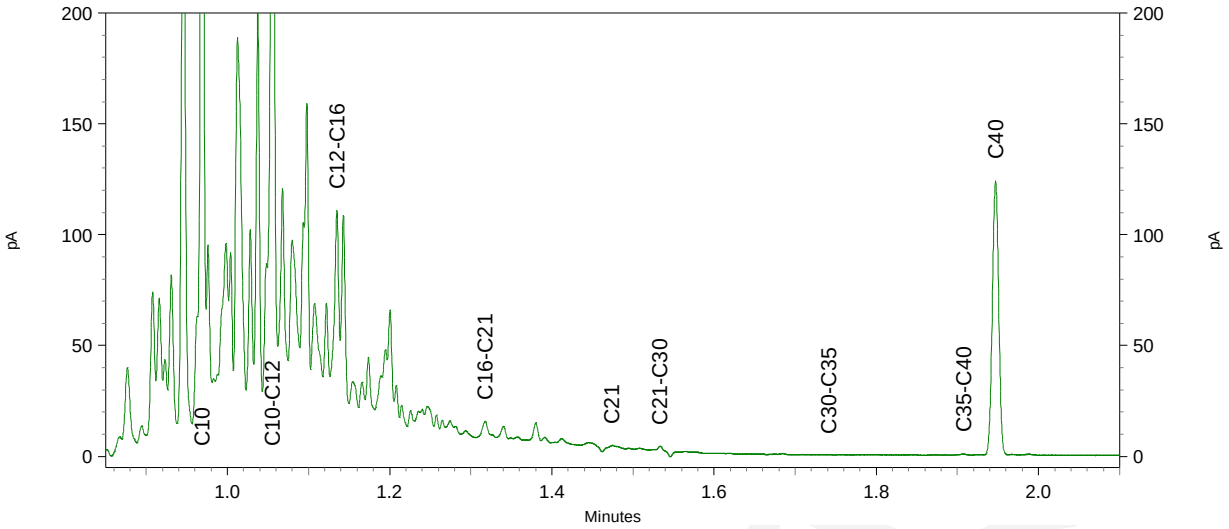
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734706
Certificate no.: 2020191944
Sample description.: 133
V

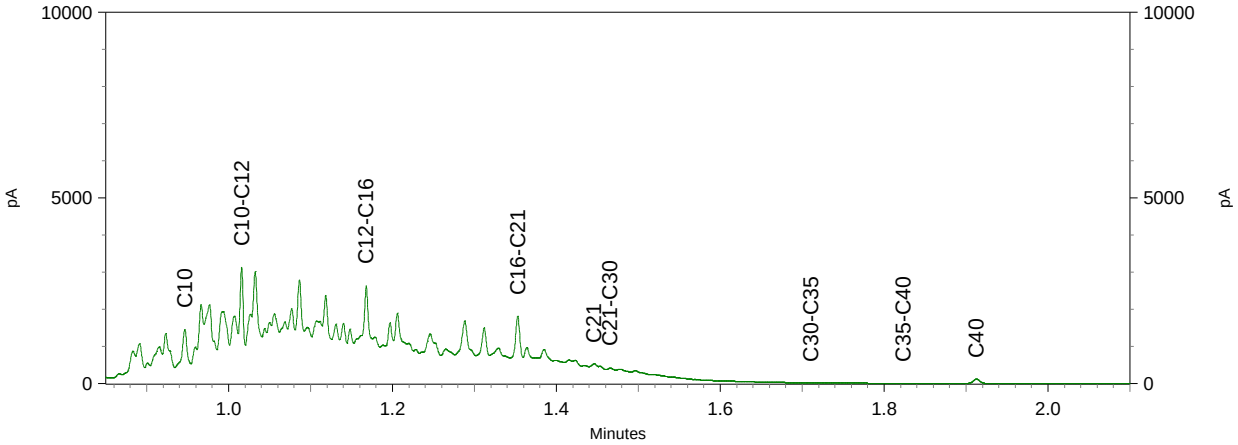


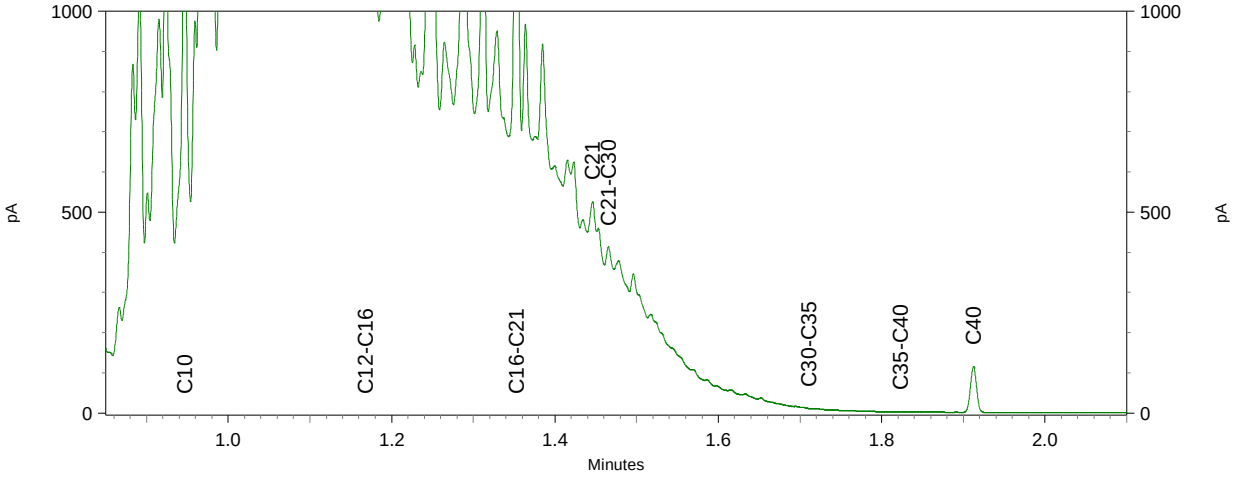


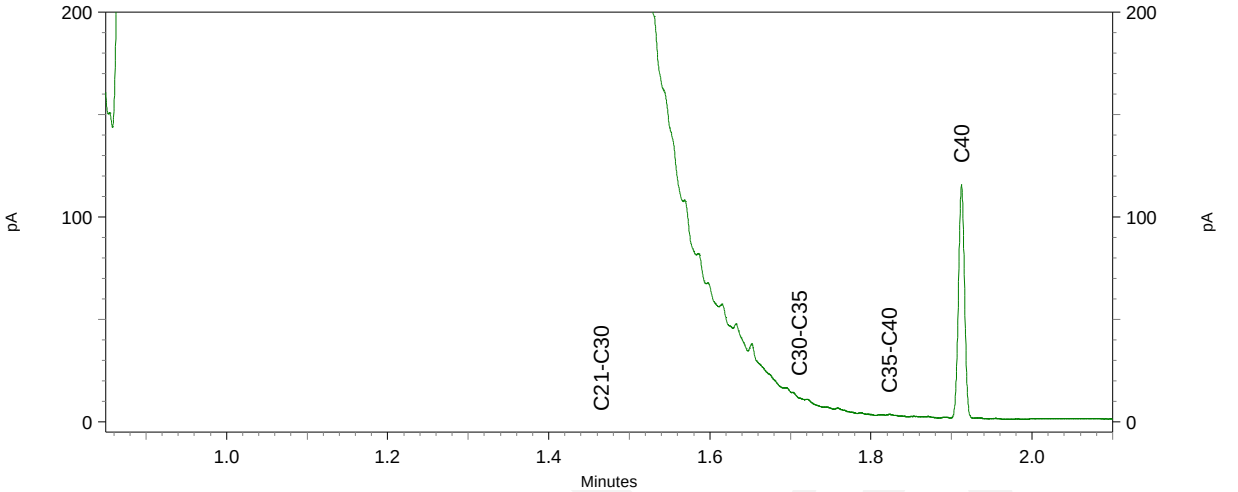


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734707 HI 10 VV + SPOEL
Certificate no.: 2020191944
Sample description.: 125
V







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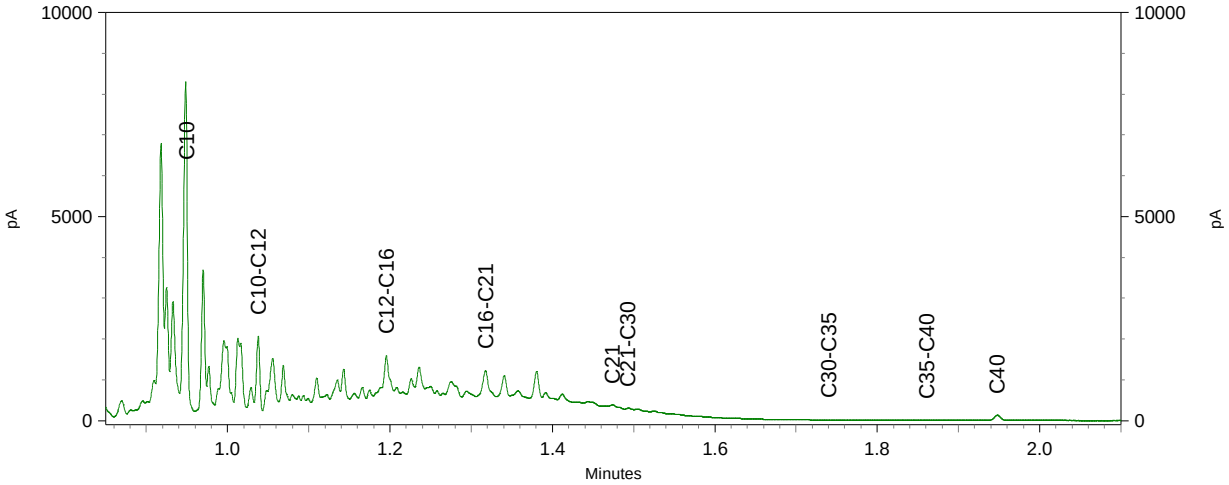
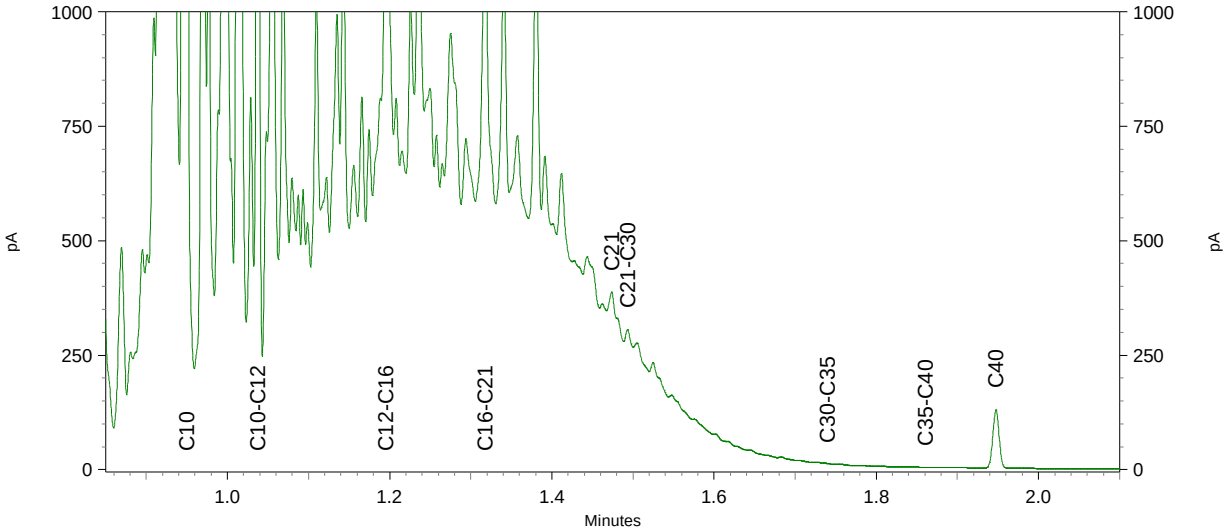
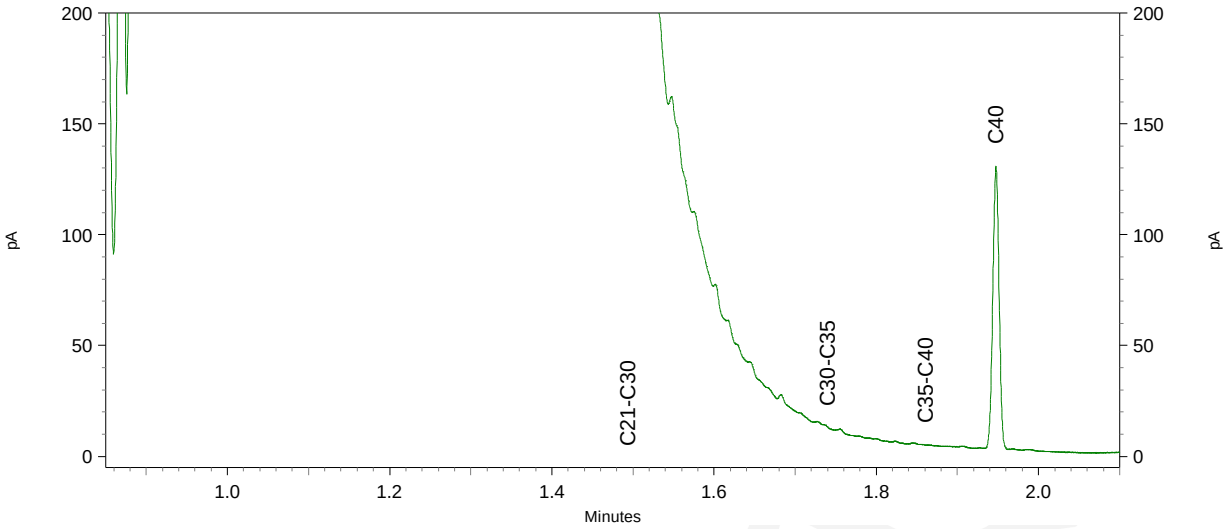
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734708
Certificate no.: 2020191944
Sample description.: 102
V

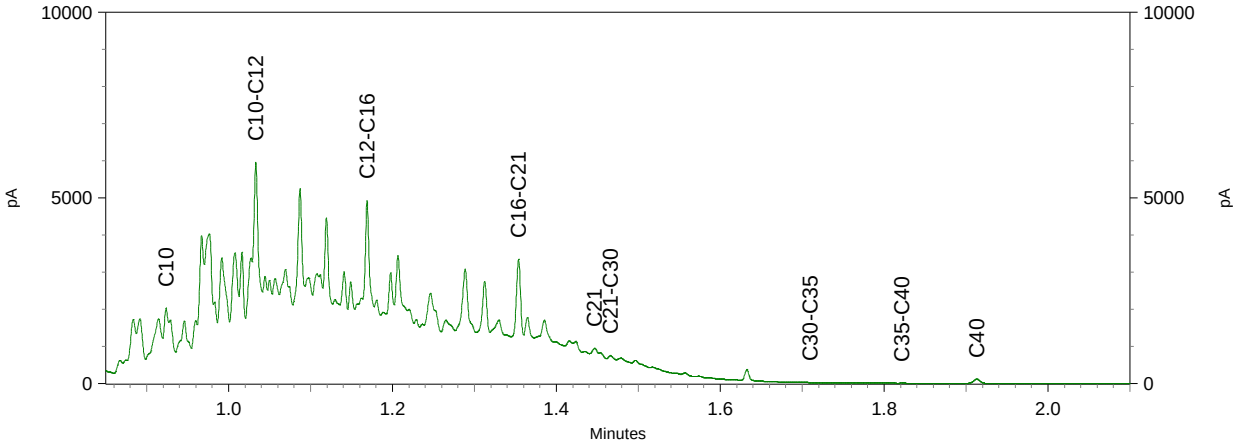


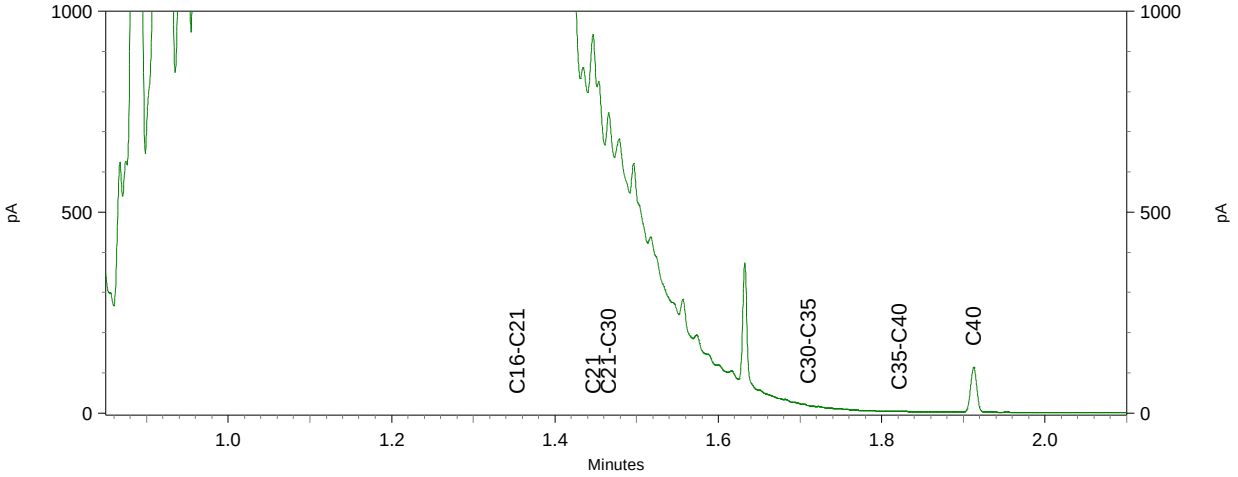


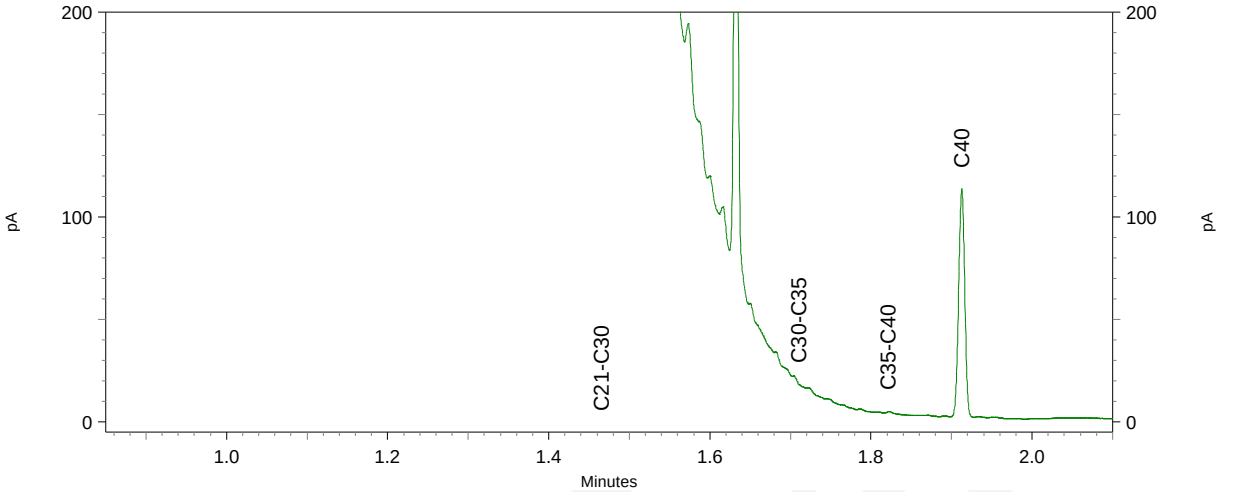


Chromatogram TPH/ Mineral Oil

Sample ID.: 11734709 HI 10 VV + SPOEL
Certificate no.: 2020191944
Sample description.: VE15
V







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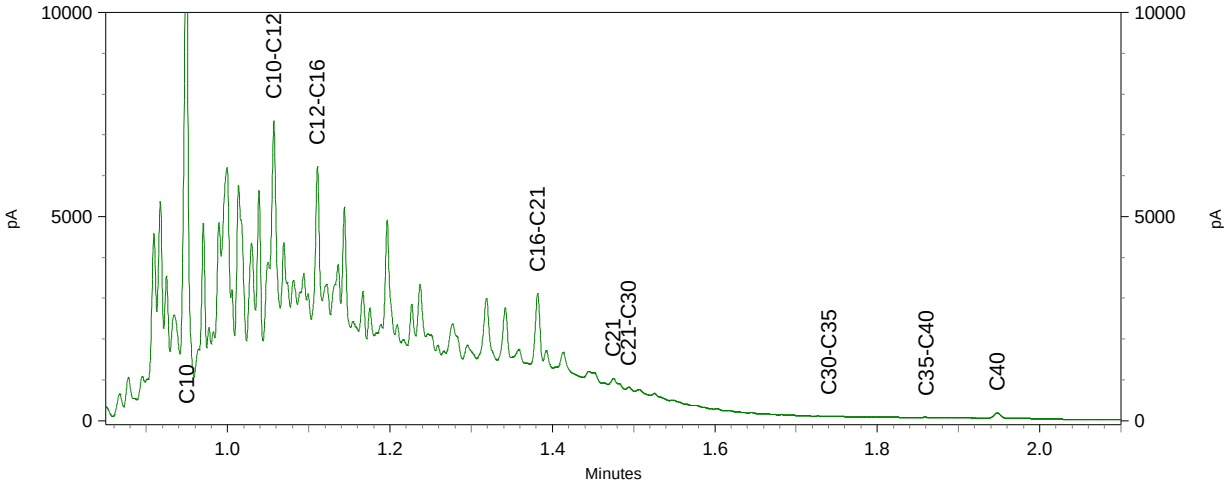
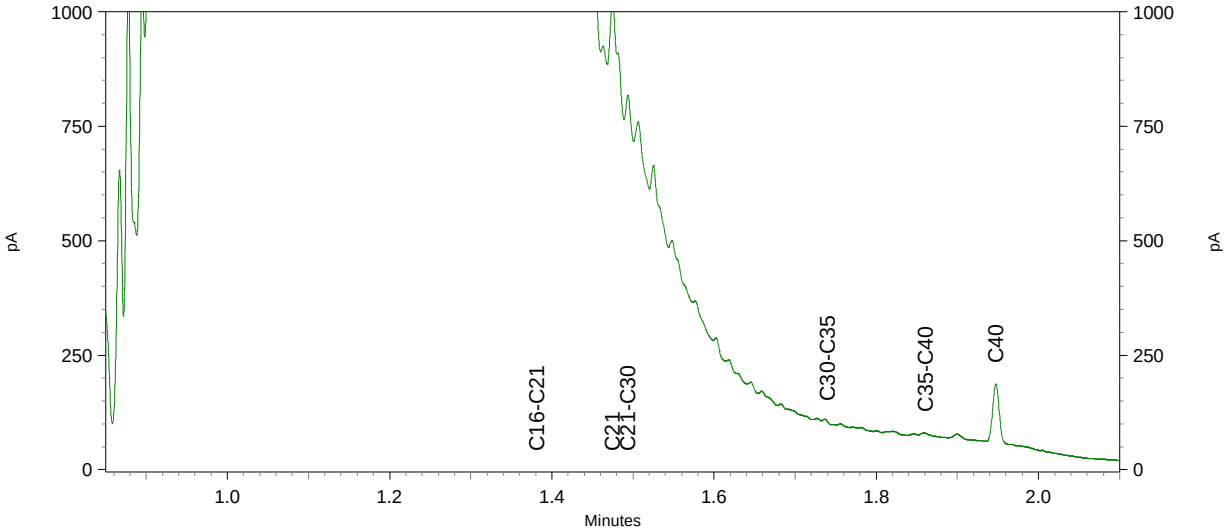
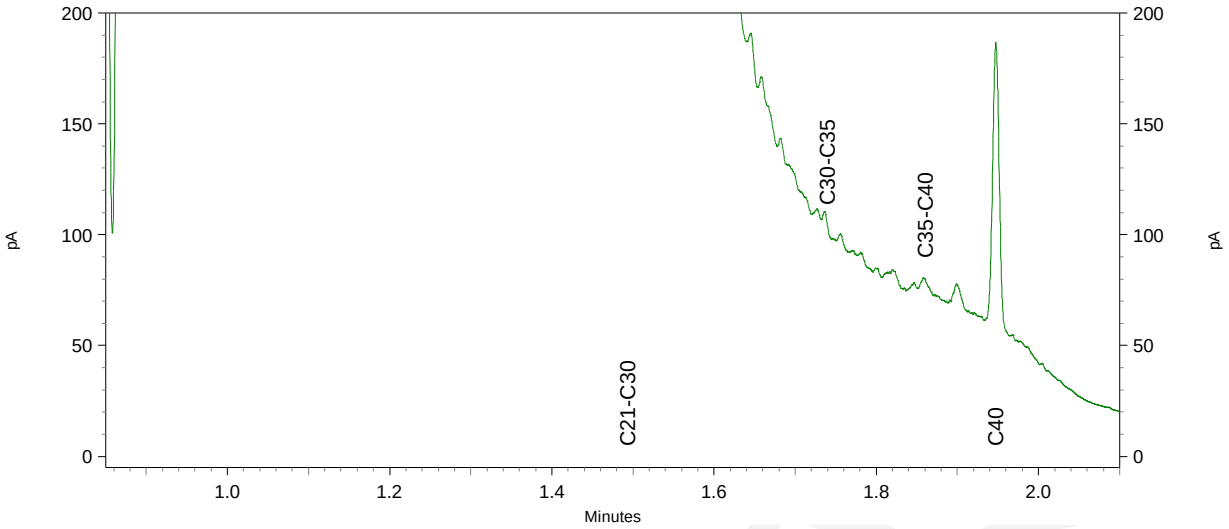
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734710
Certificate no.: 2020191944
Sample description.: 126
V







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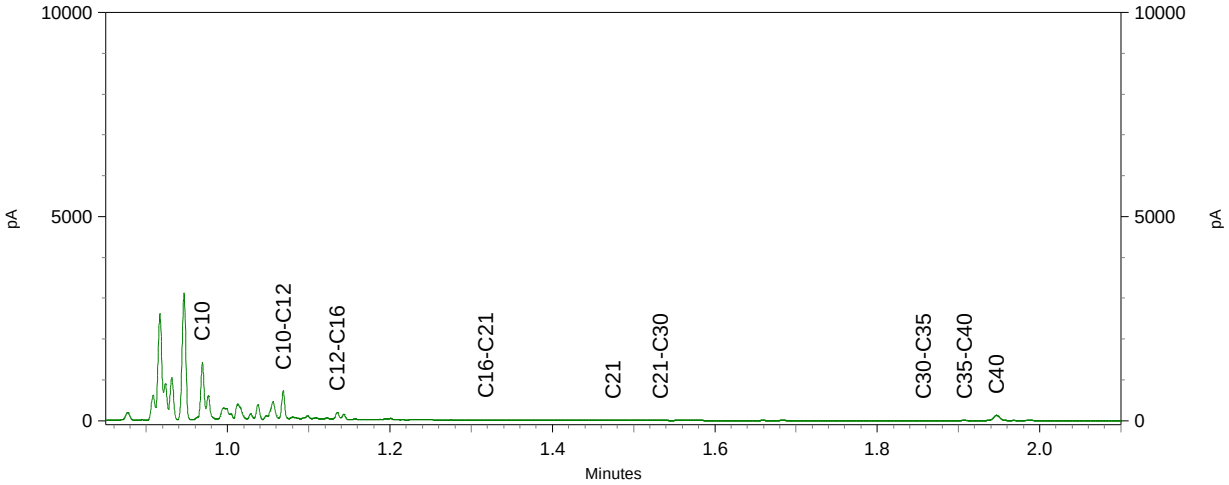
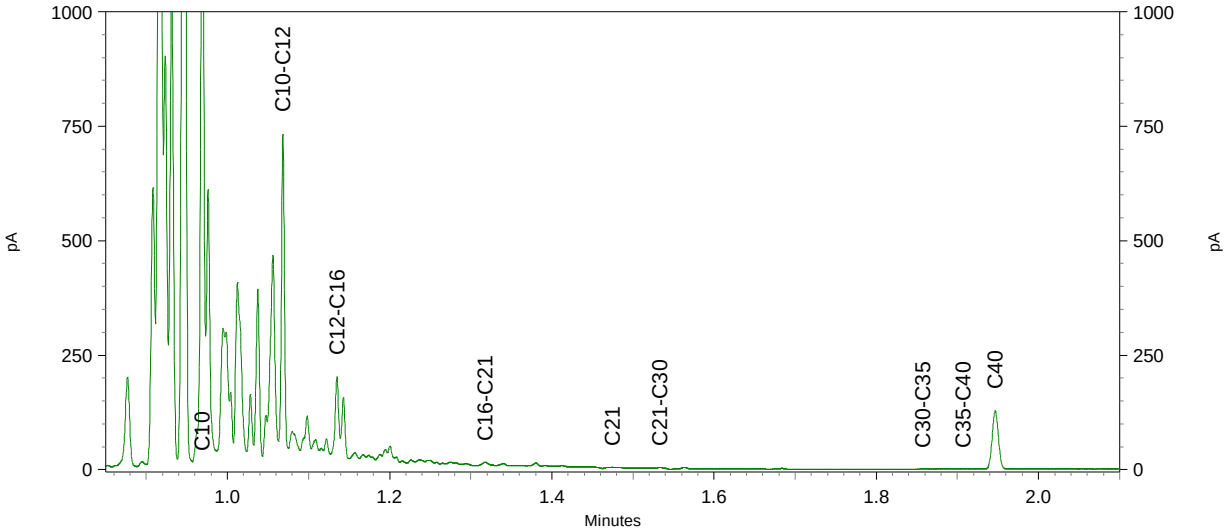
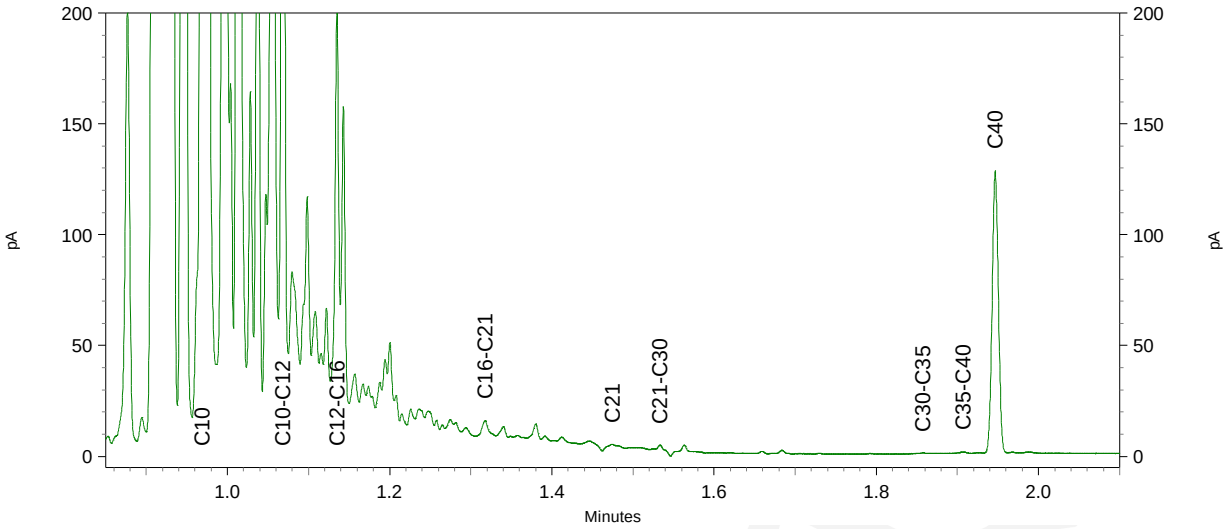
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734711
Certificate no.: 2020191944
Sample description.: 132
V







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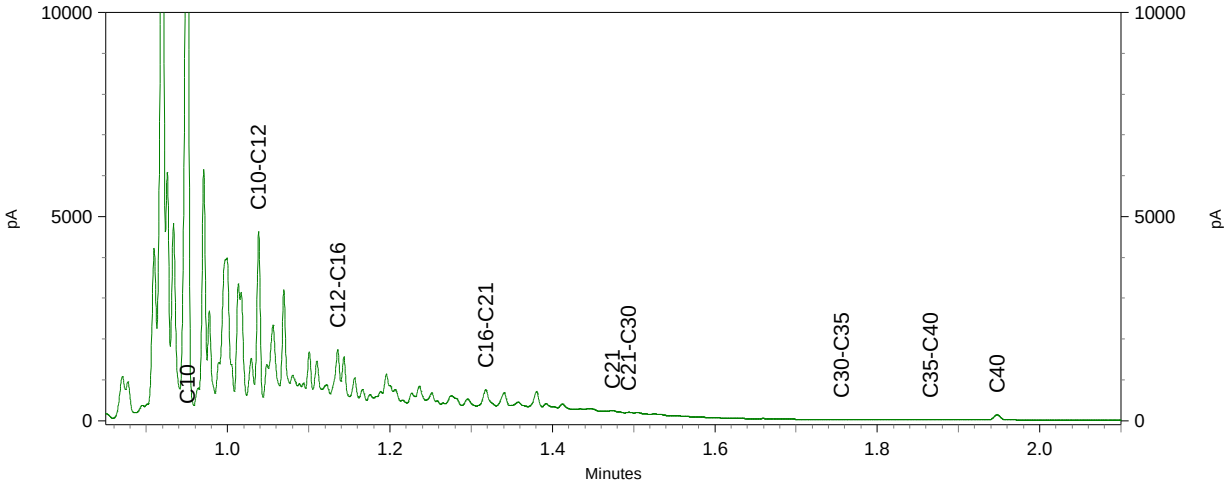
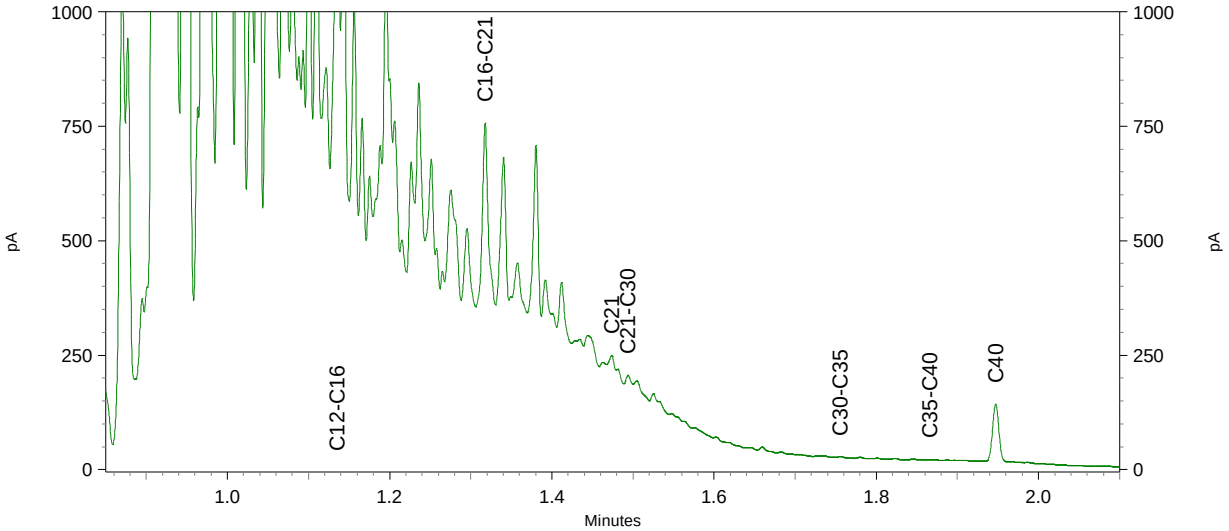
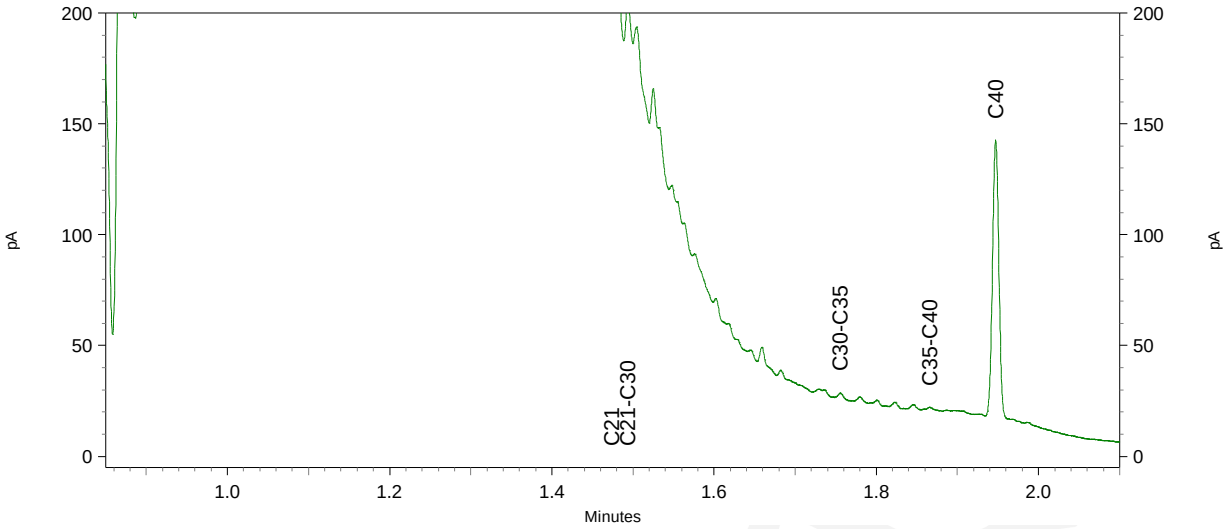
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734712
Certificate no.: 2020191944
Sample description.: 115
V







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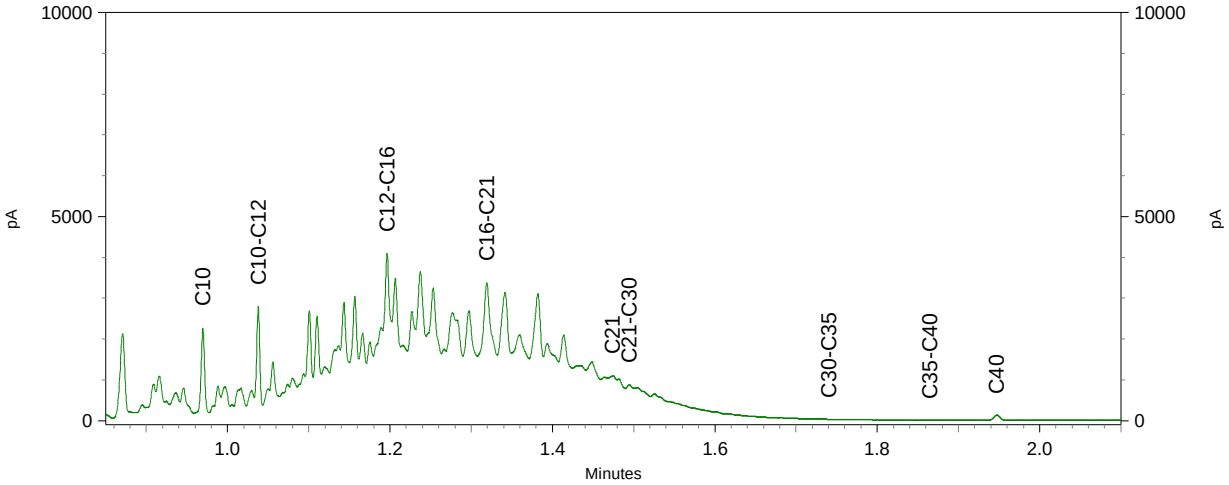
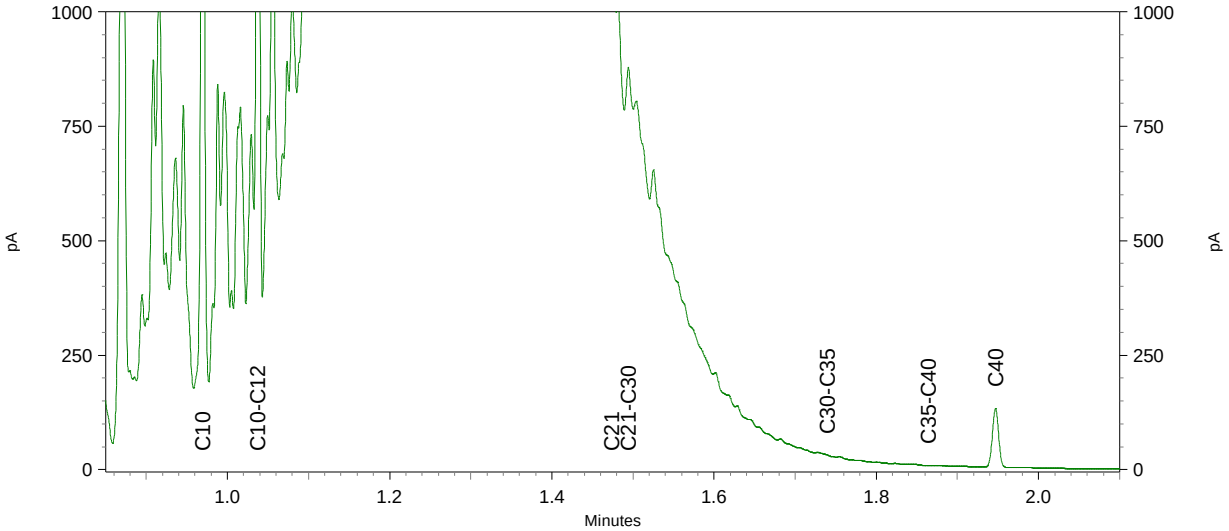
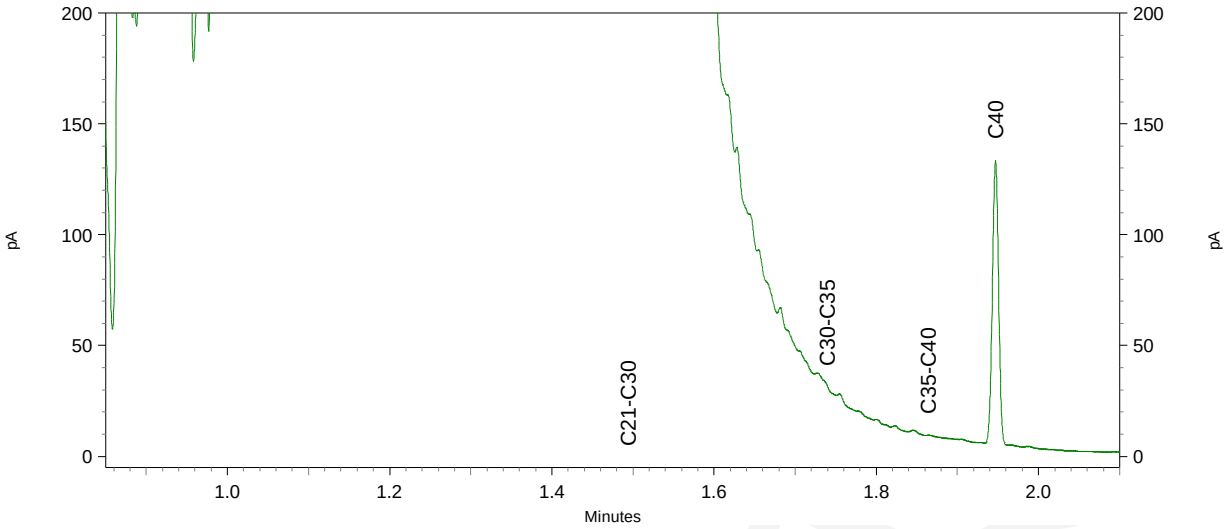
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734713
Certificate no.: 2020191944
Sample description.: 101
V







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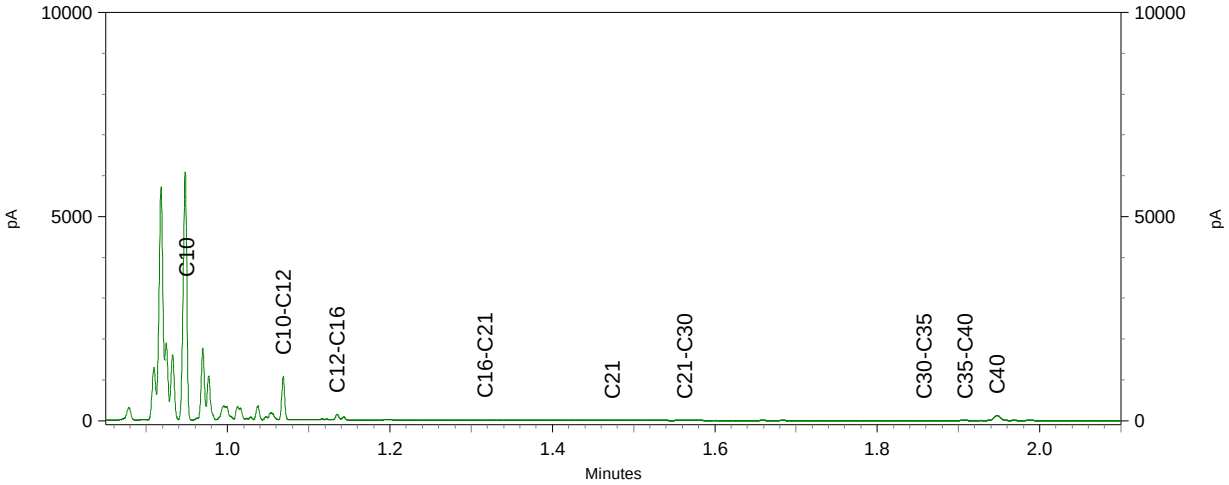
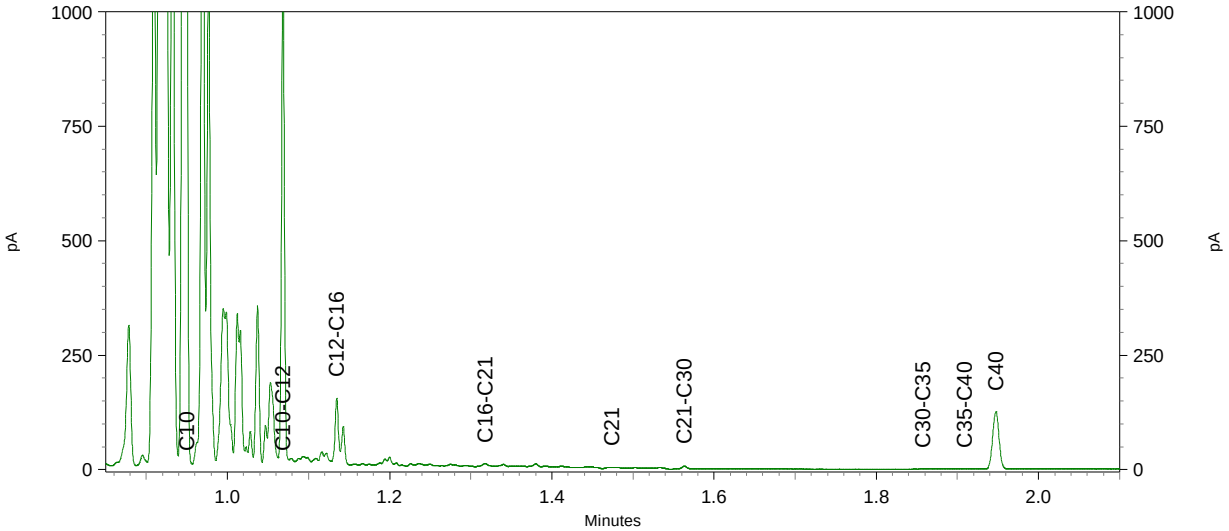
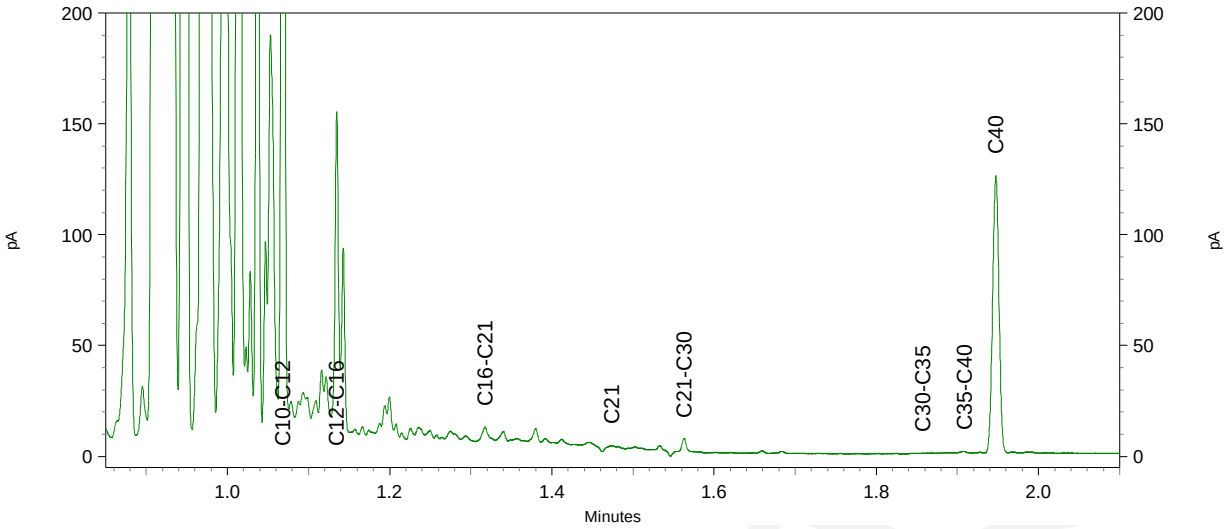
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734714
Certificate no.: 2020191944
Sample description.: 114
V







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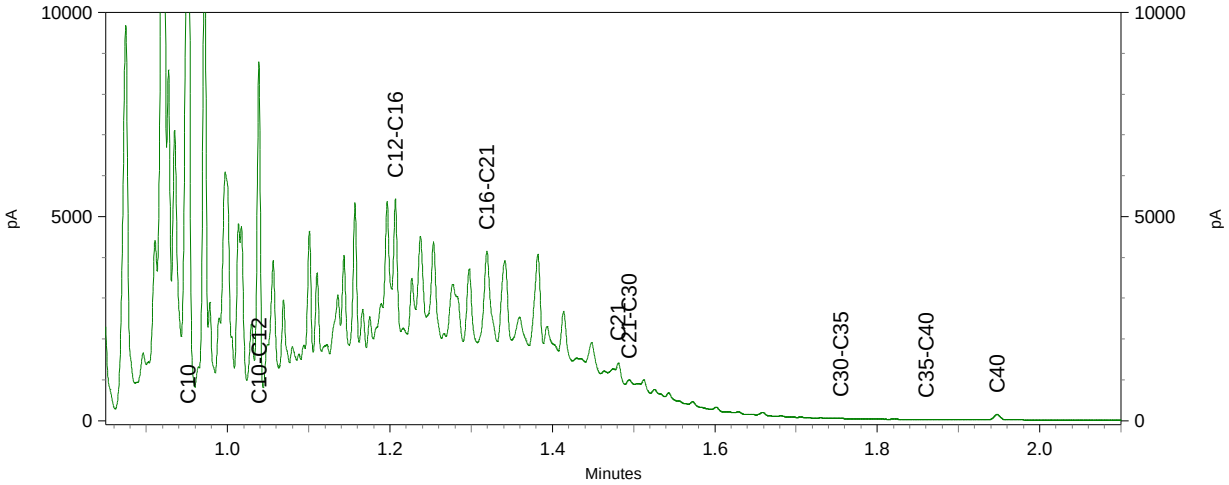
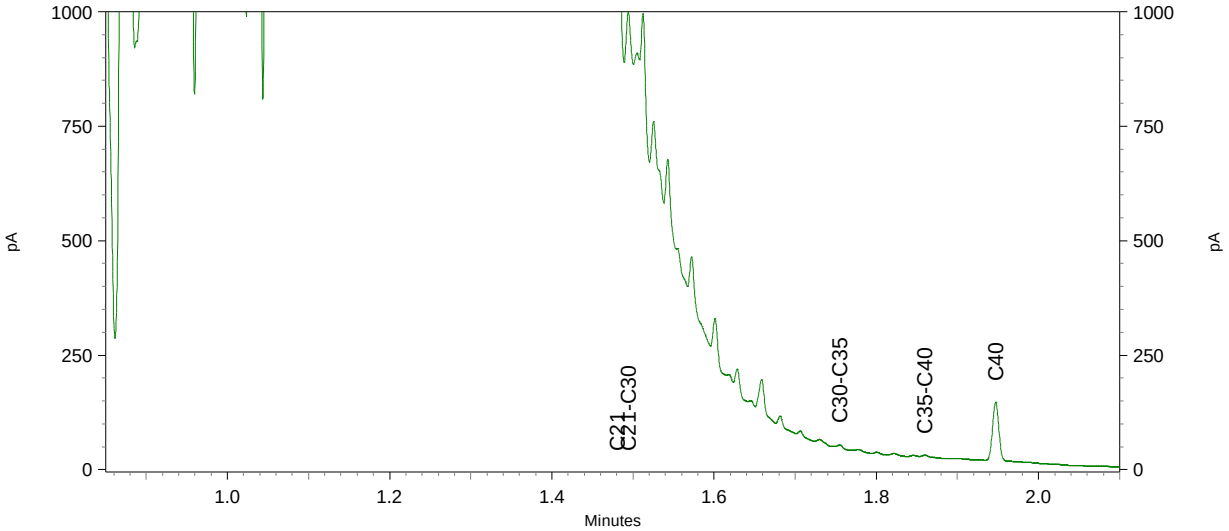
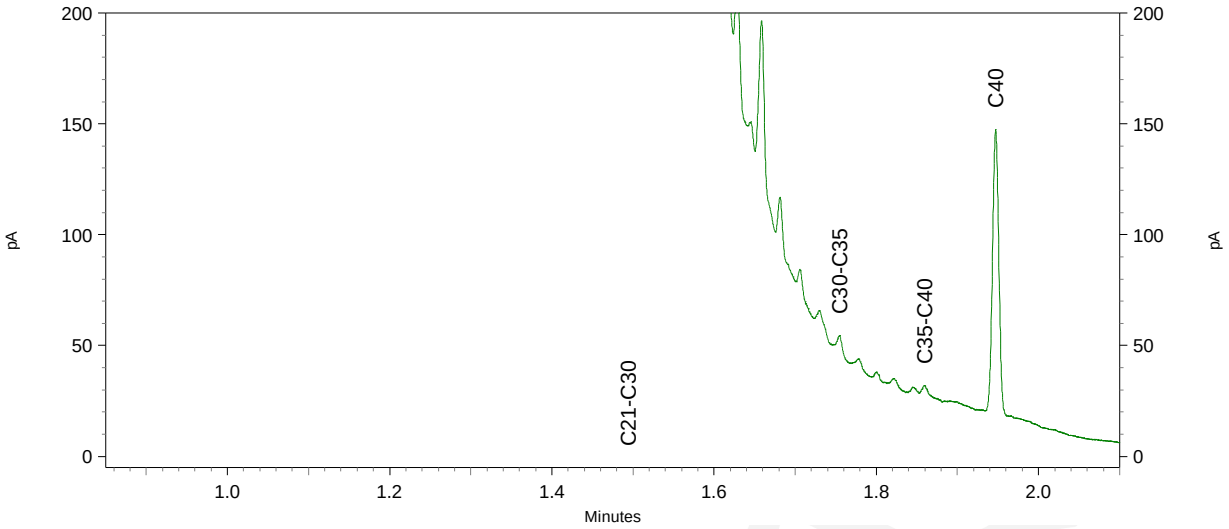
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734715
Certificate no.: 2020191944
Sample description.: 112
V







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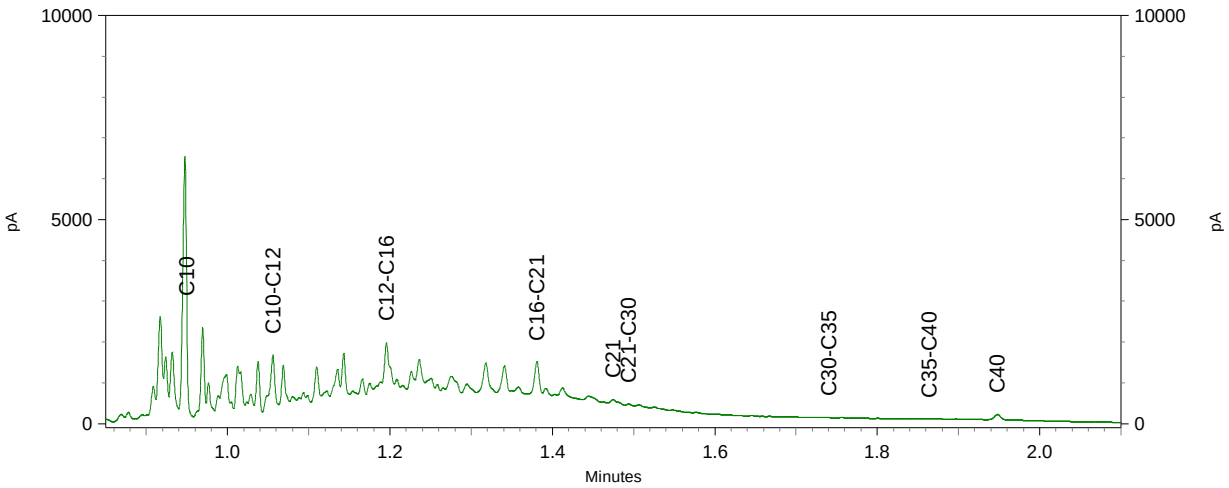
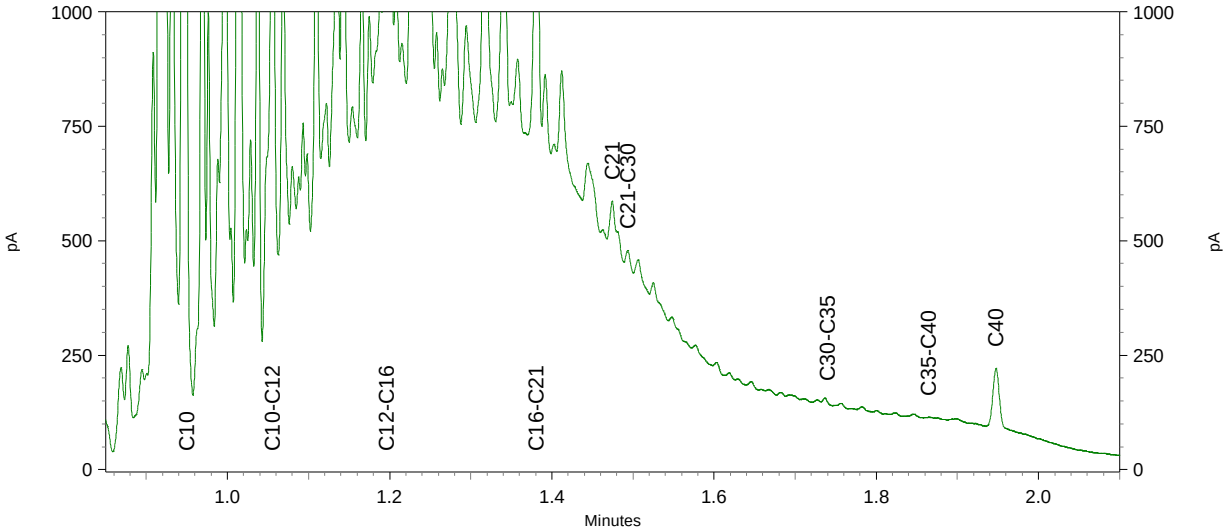
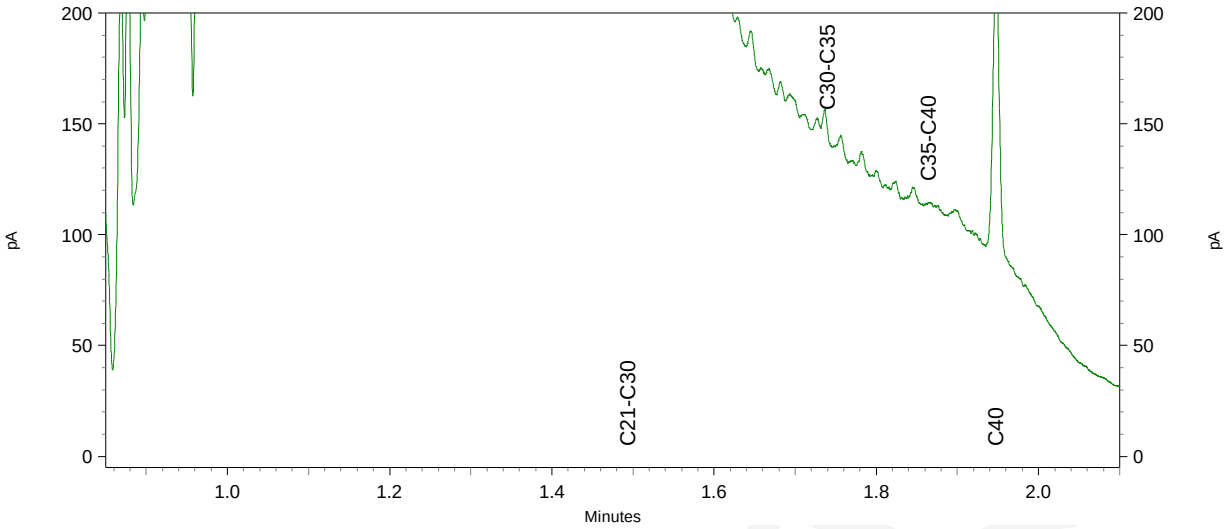
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734716
Certificate no.: 2020191944
Sample description.: 106
V







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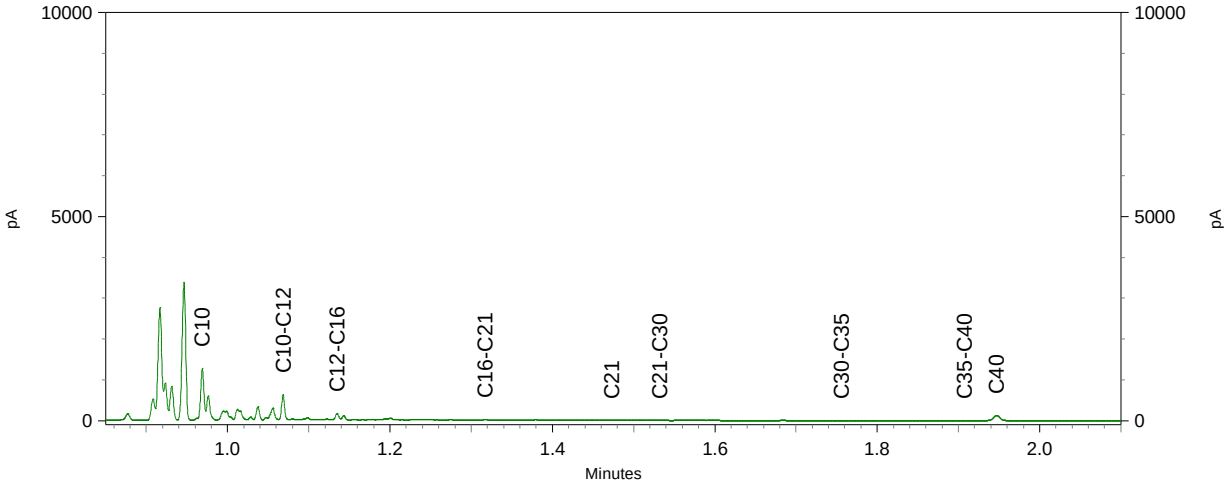
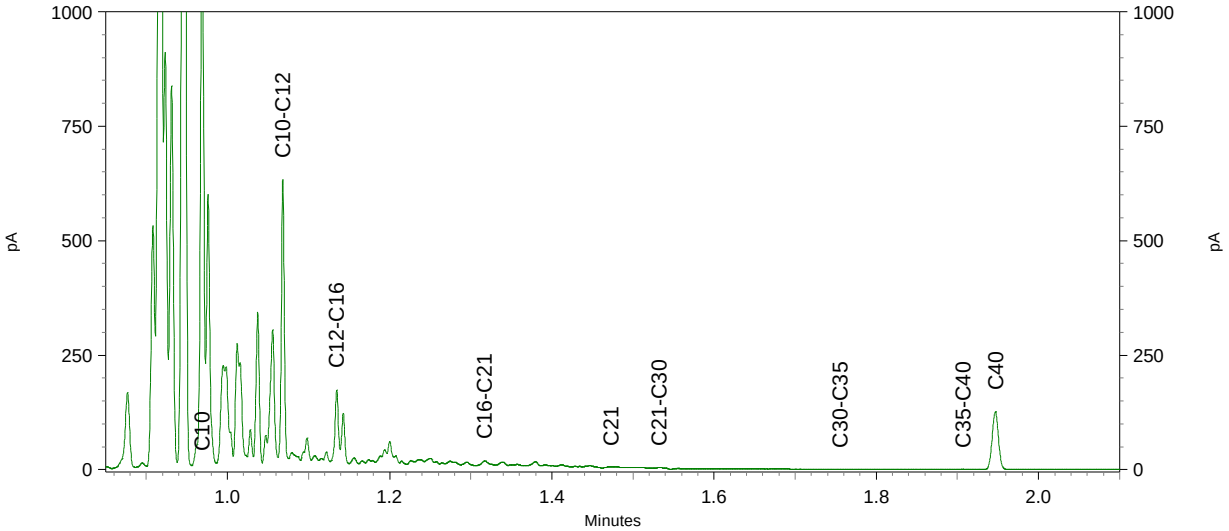
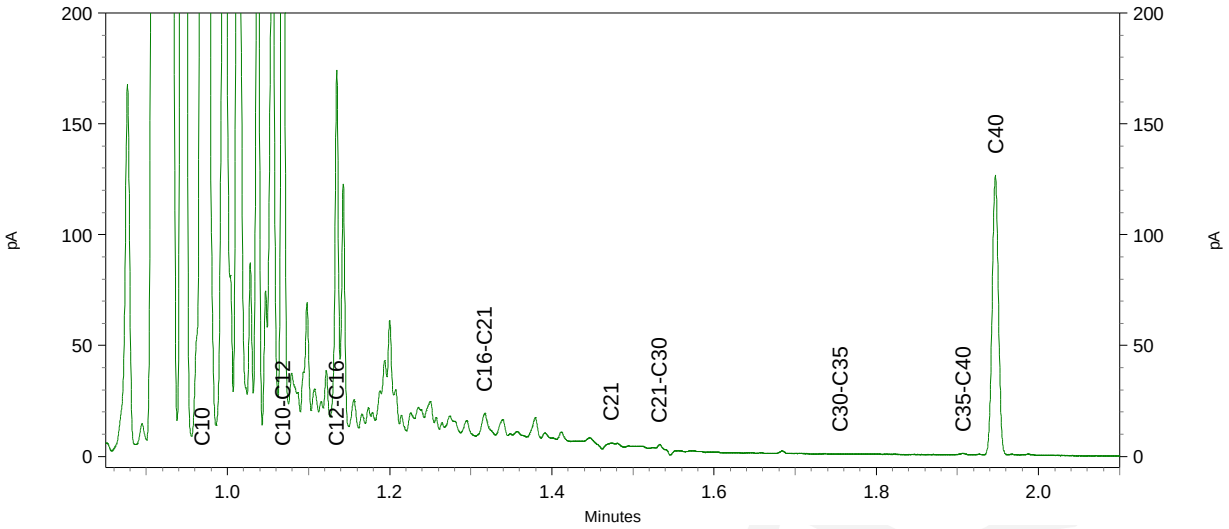
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734717
Certificate no.: 2020191944
Sample description.: 109
V







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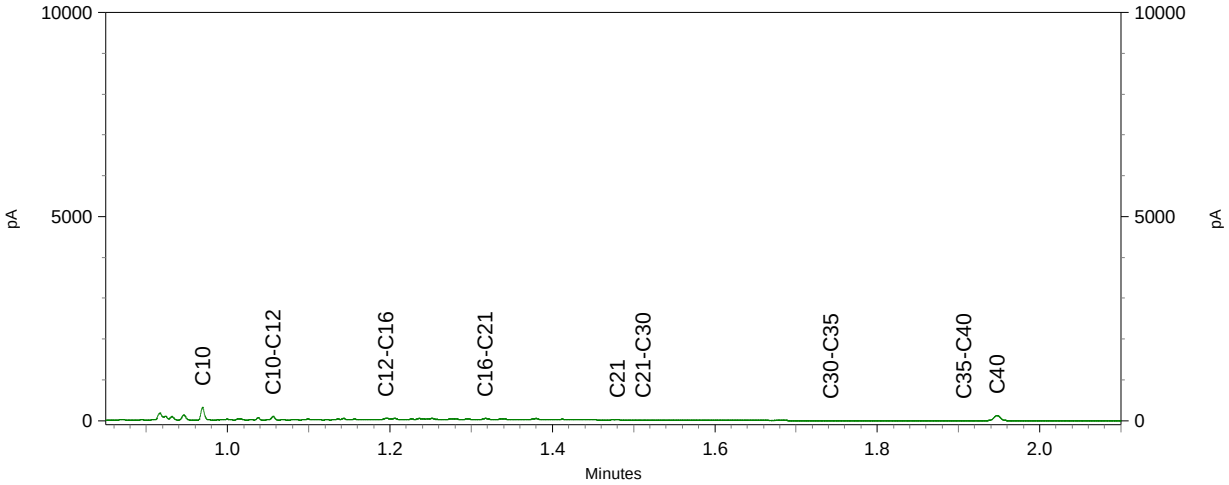
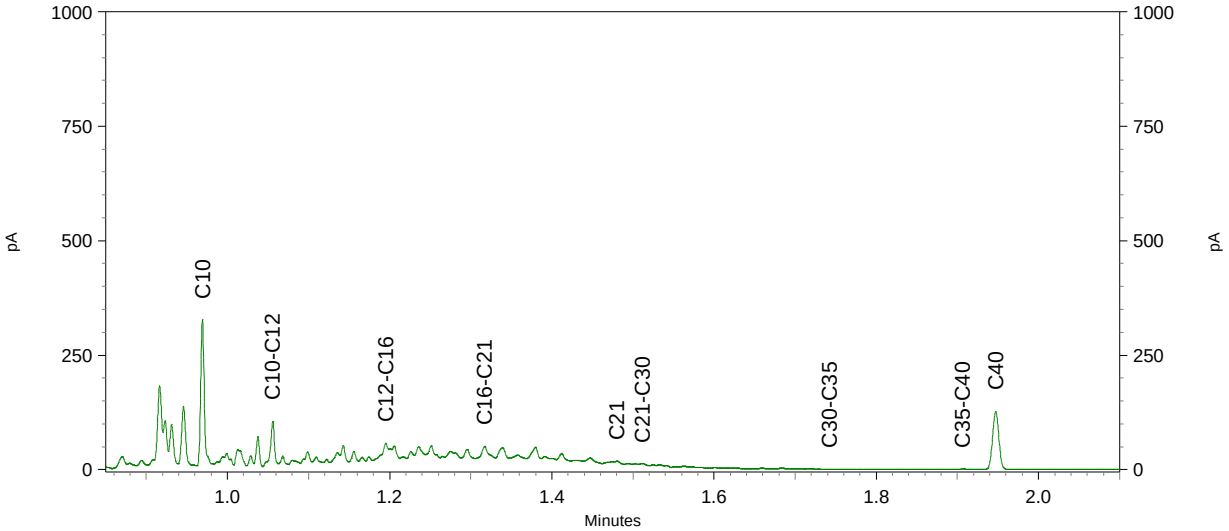
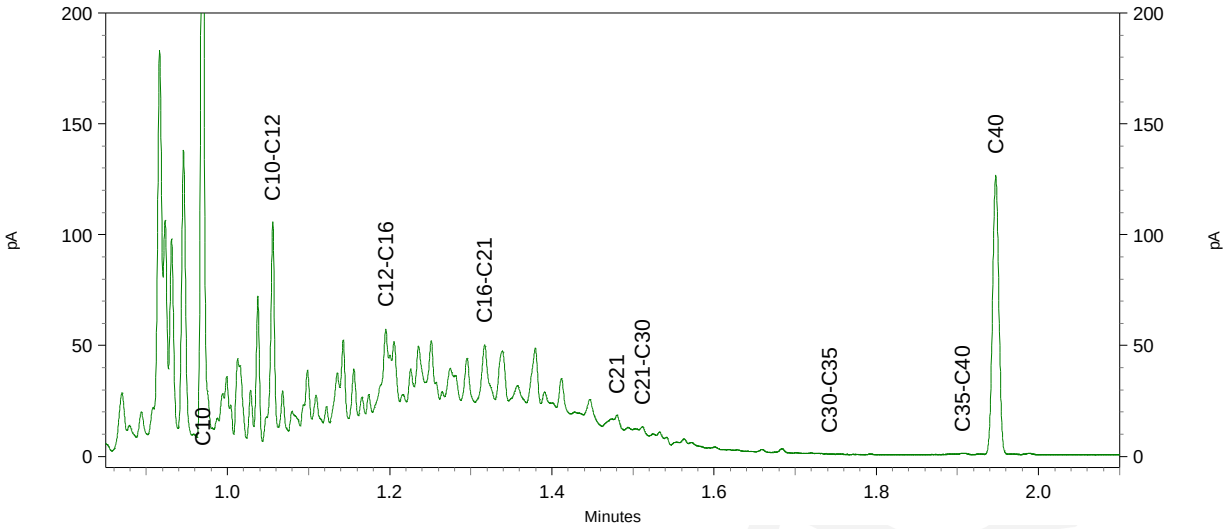
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734718
Certificate no.: 2020191944
Sample description.: 104
V







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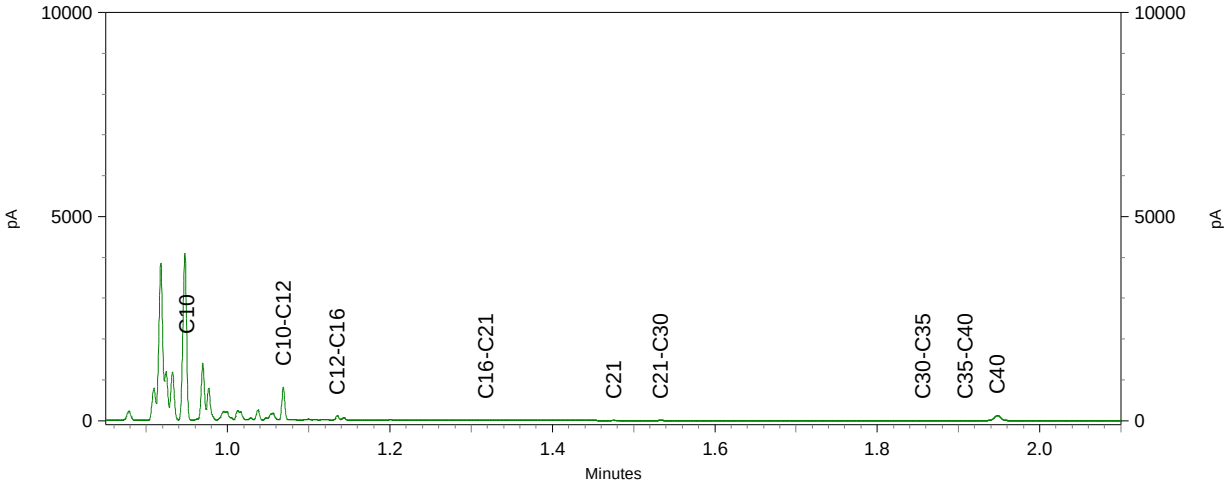
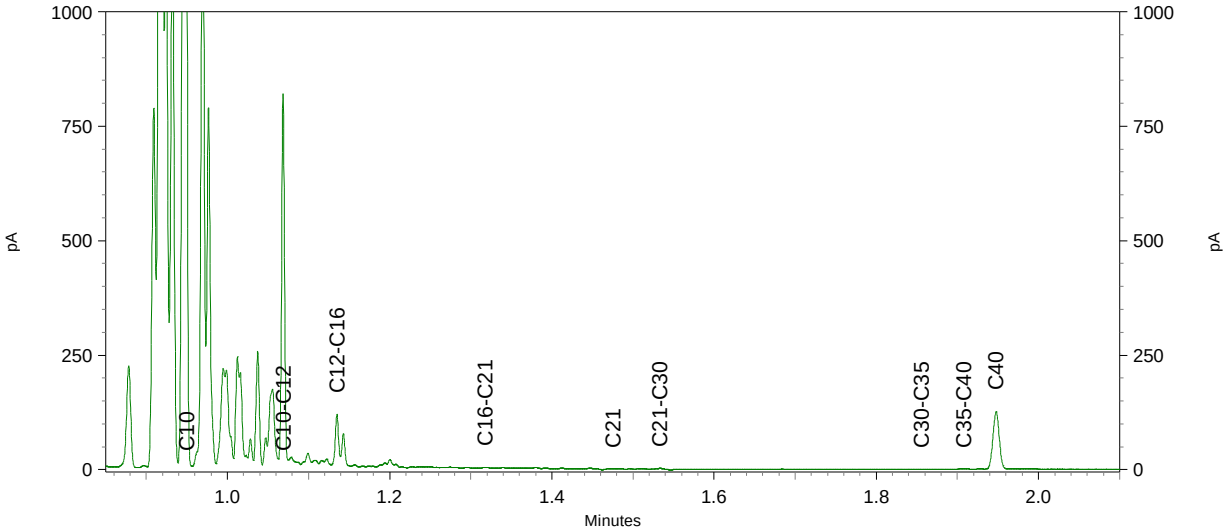
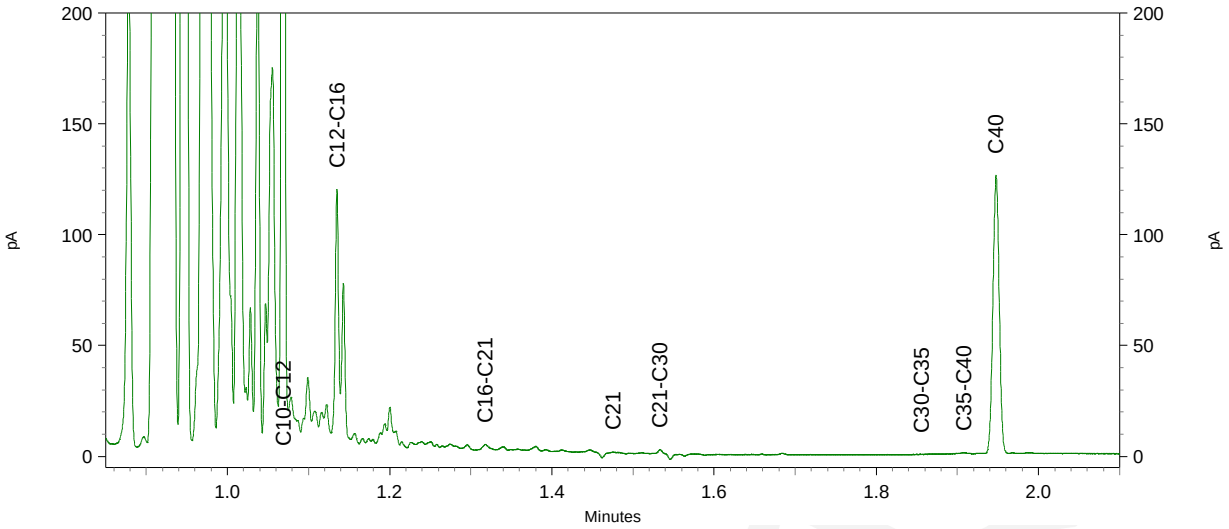
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734719
Certificate no.: 2020191944
Sample description.: 118
V







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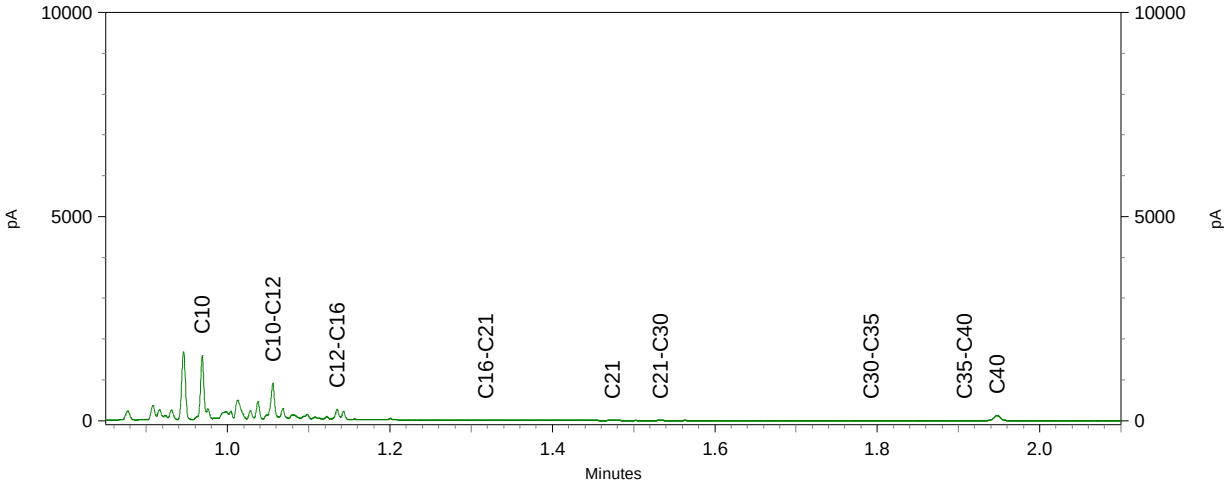
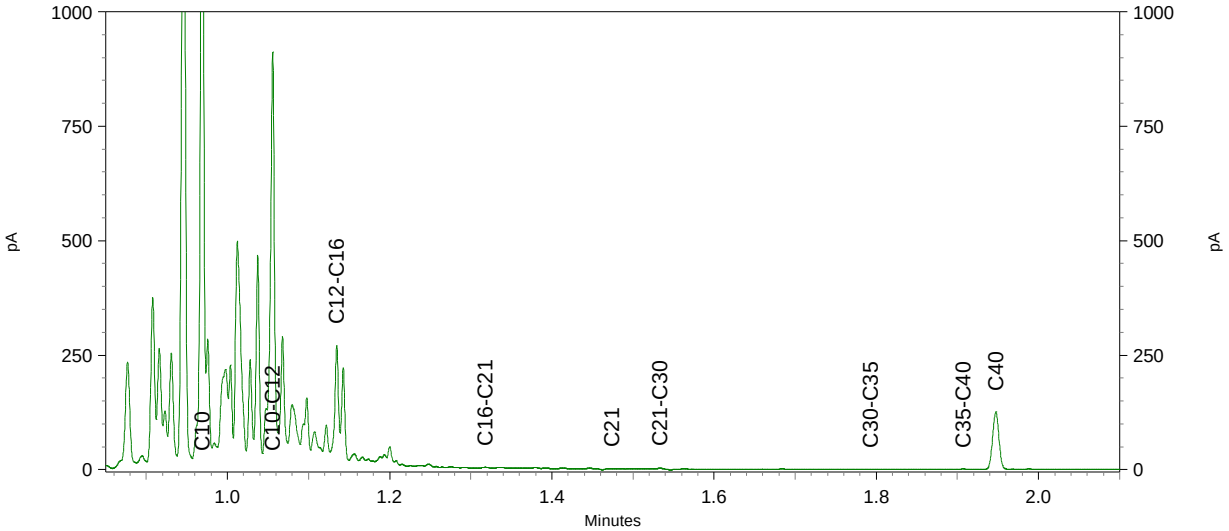
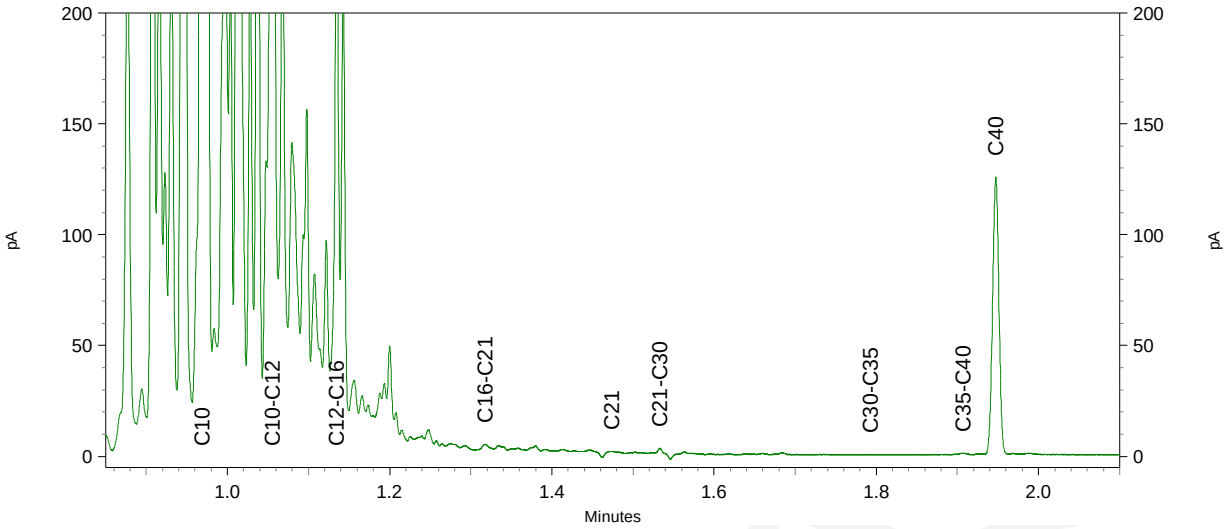
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734720
Certificate no.: 2020191944
Sample description.: 151
V







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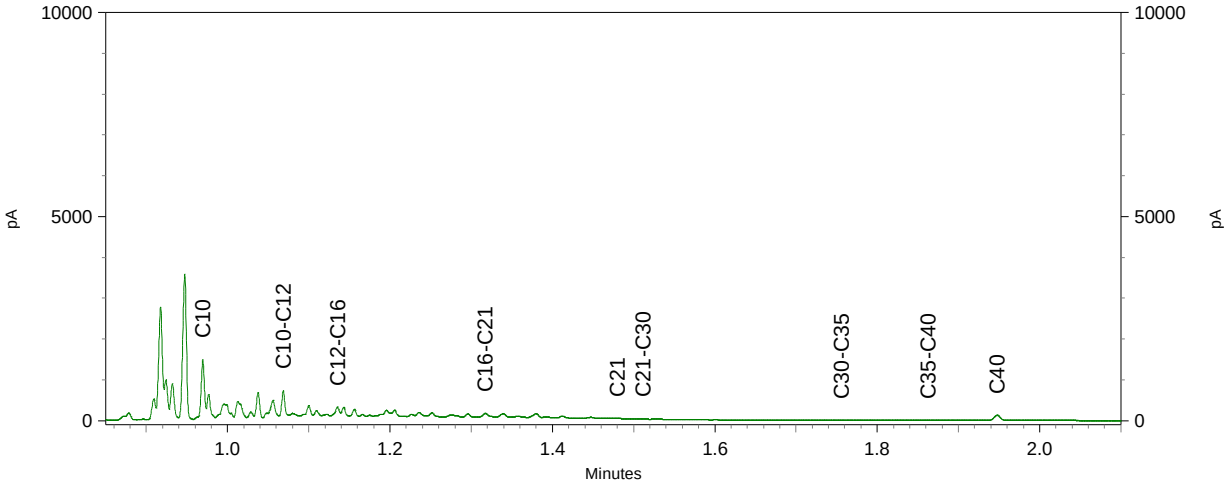
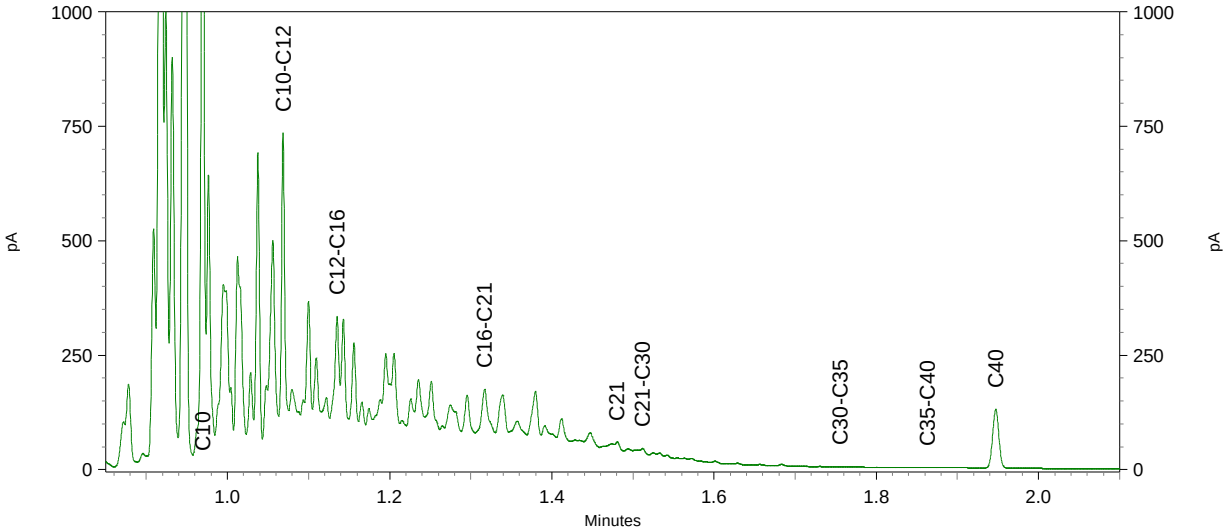
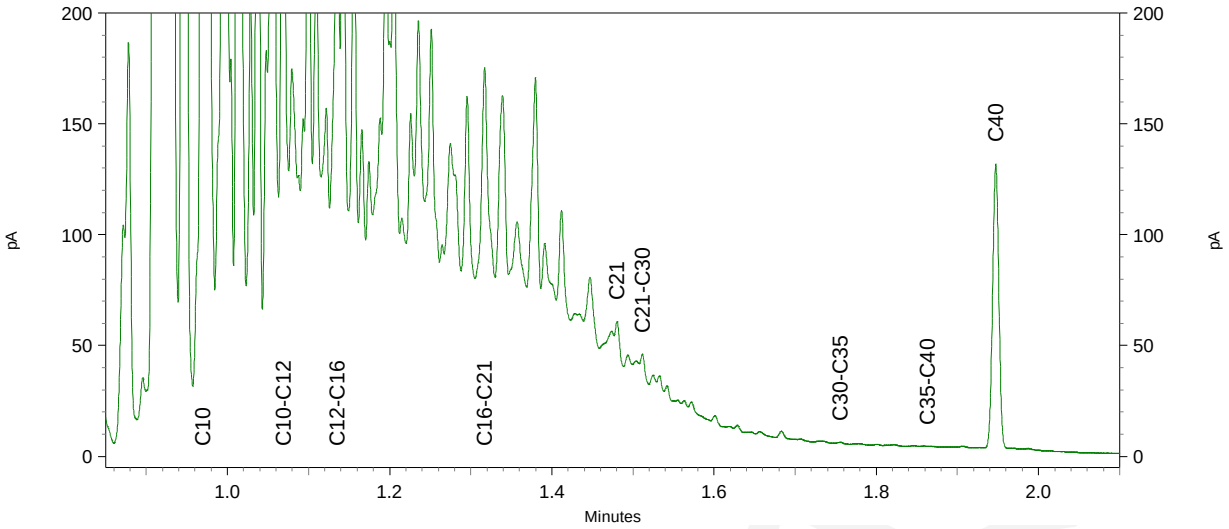
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734721
Certificate no.: 2020191944
Sample description.: 128
V







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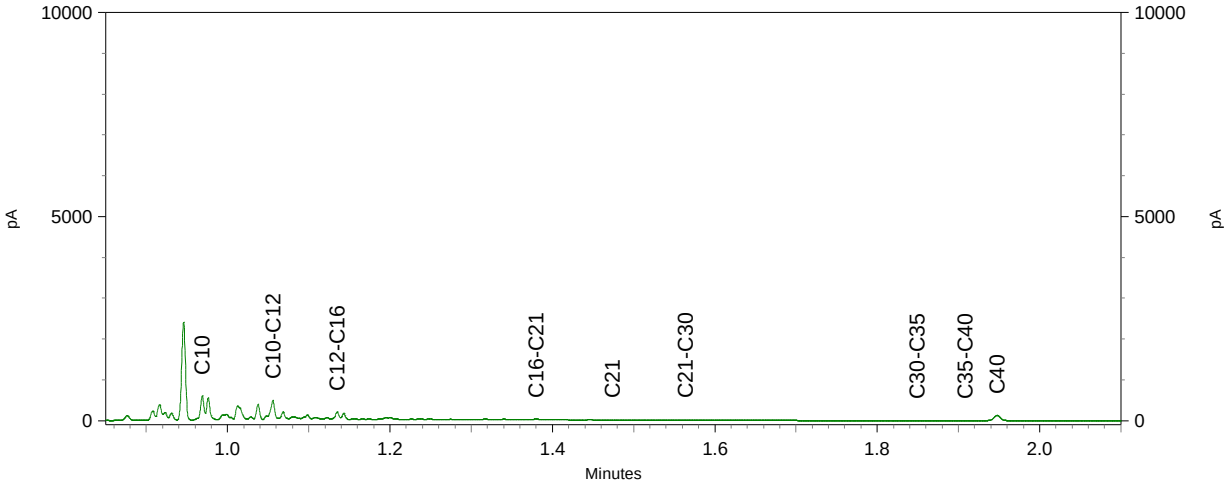
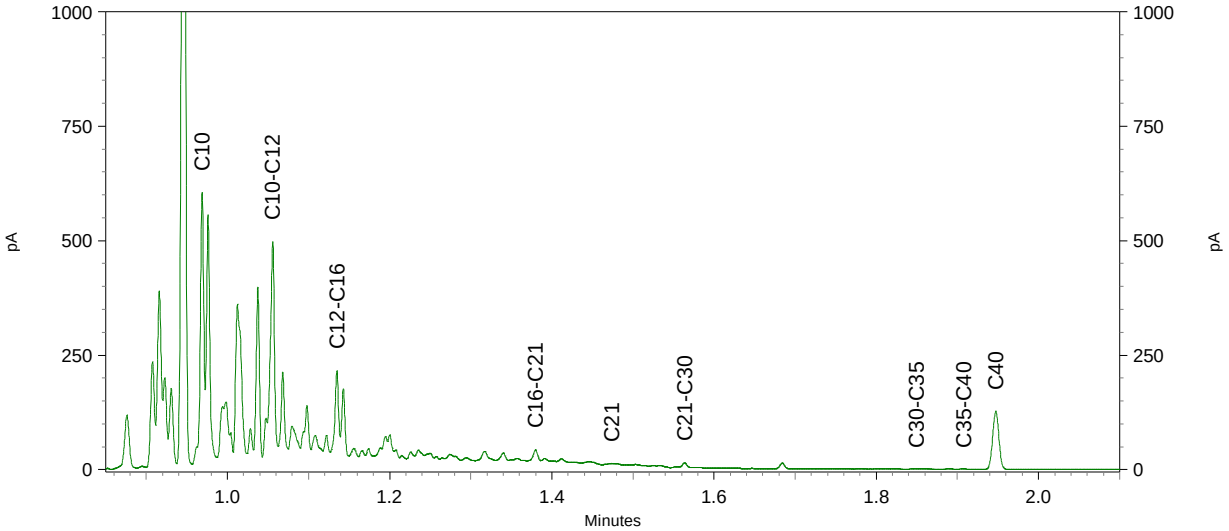
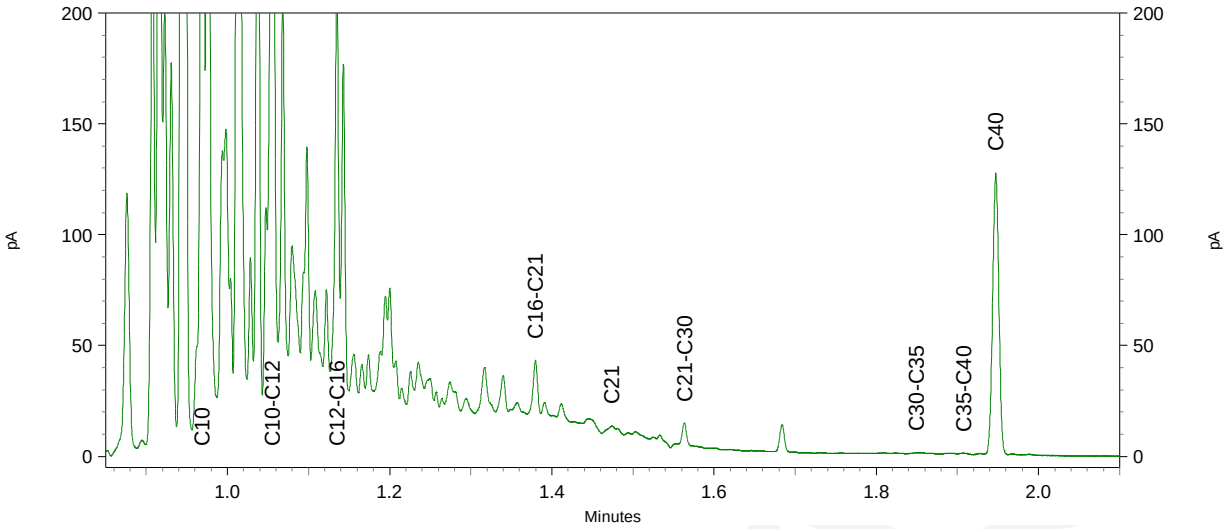
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734722
Certificate no.: 2020191944
Sample description.: 136
V







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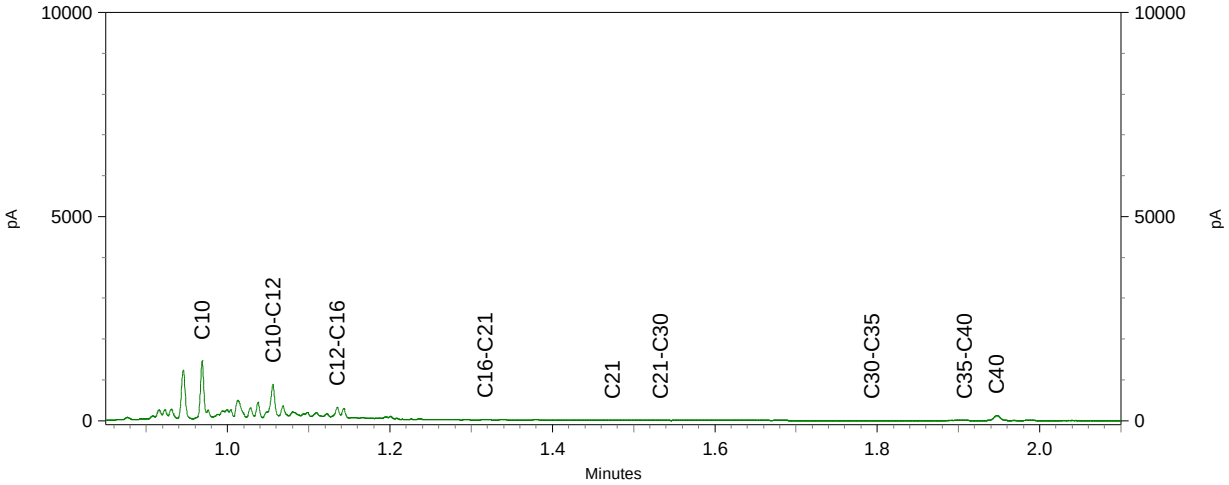
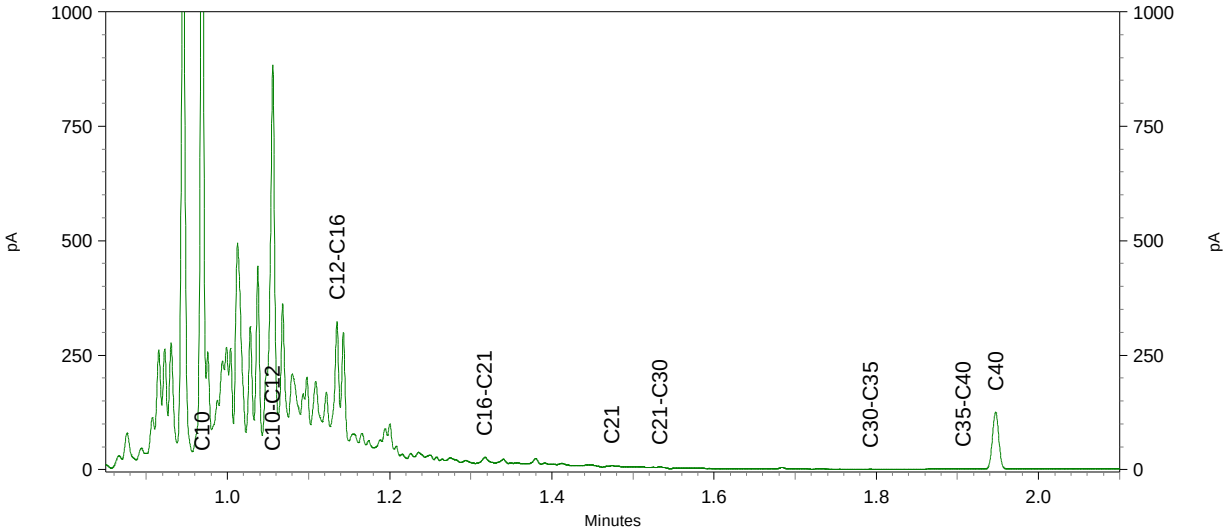
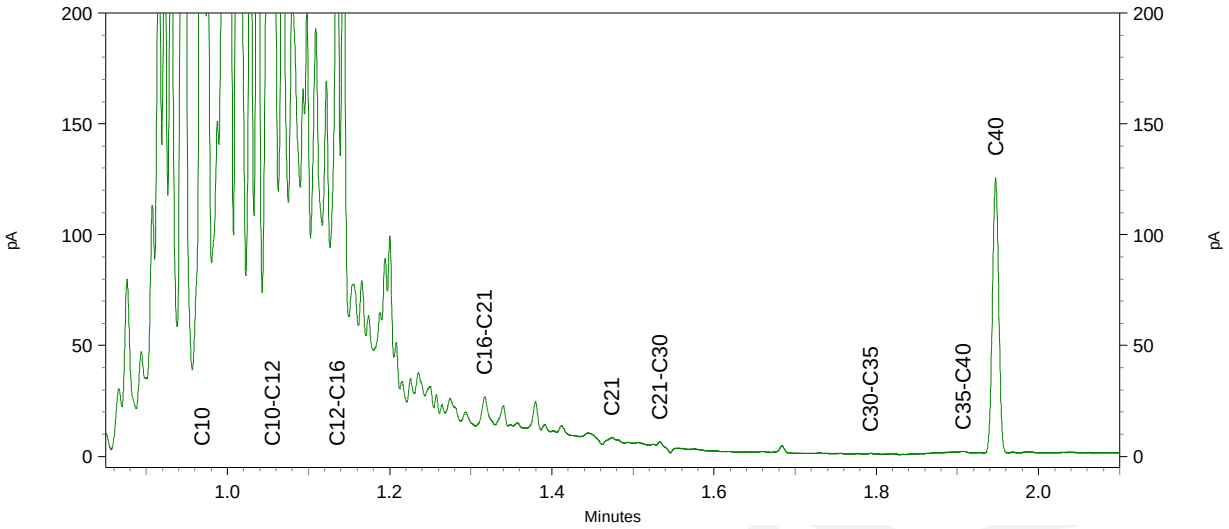
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734723
Certificate no.: 2020191944
Sample description.: 150
V







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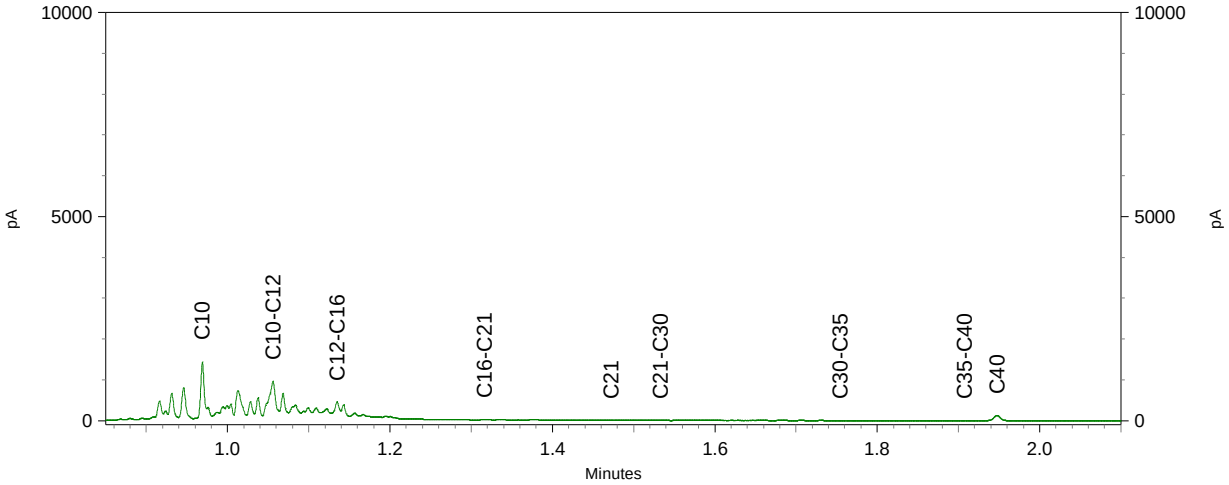
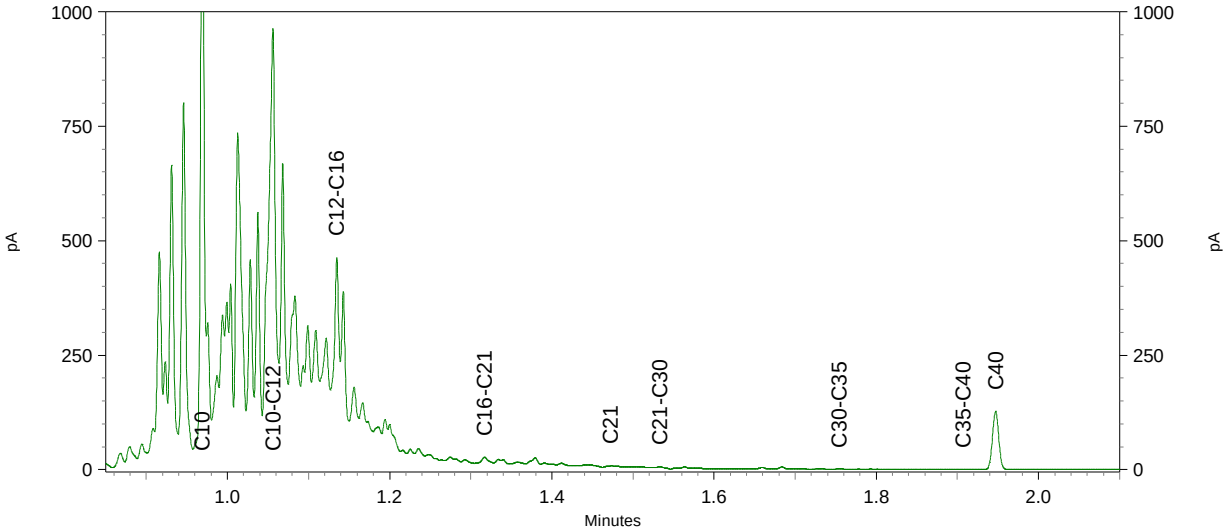
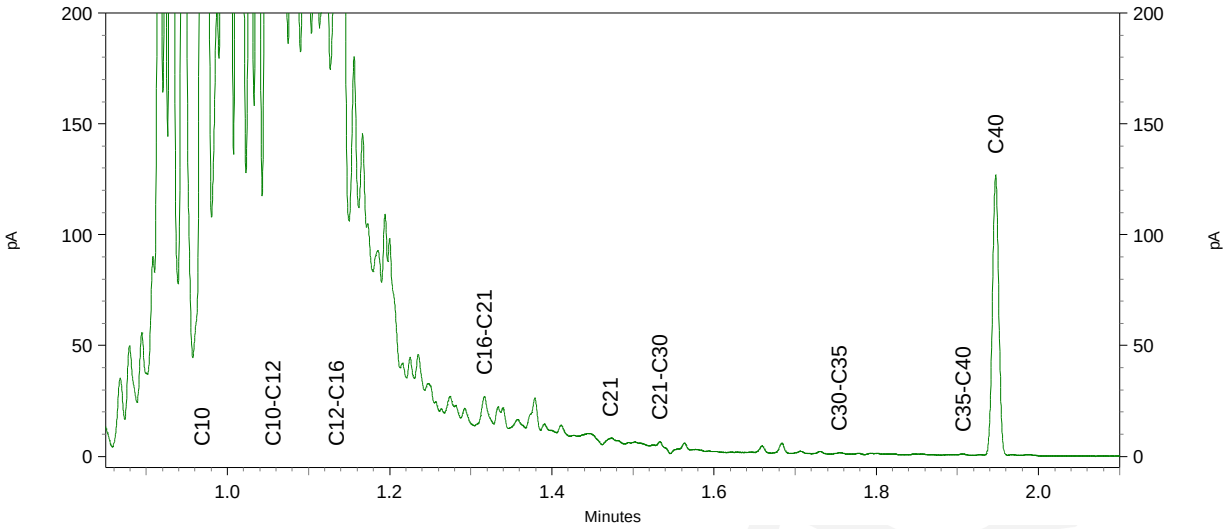
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734724
Certificate no.: 2020191944
Sample description.: 153
V







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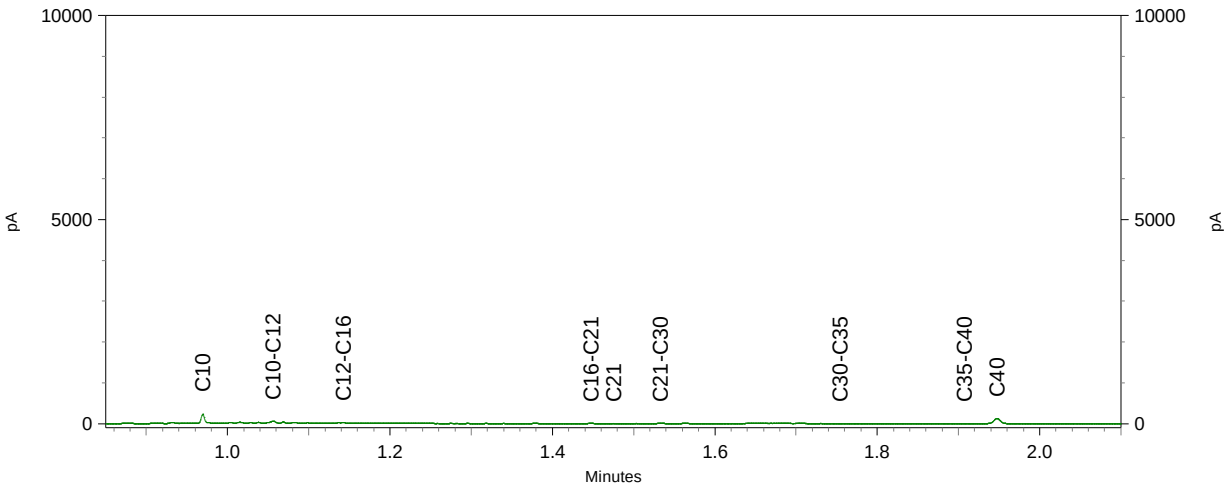
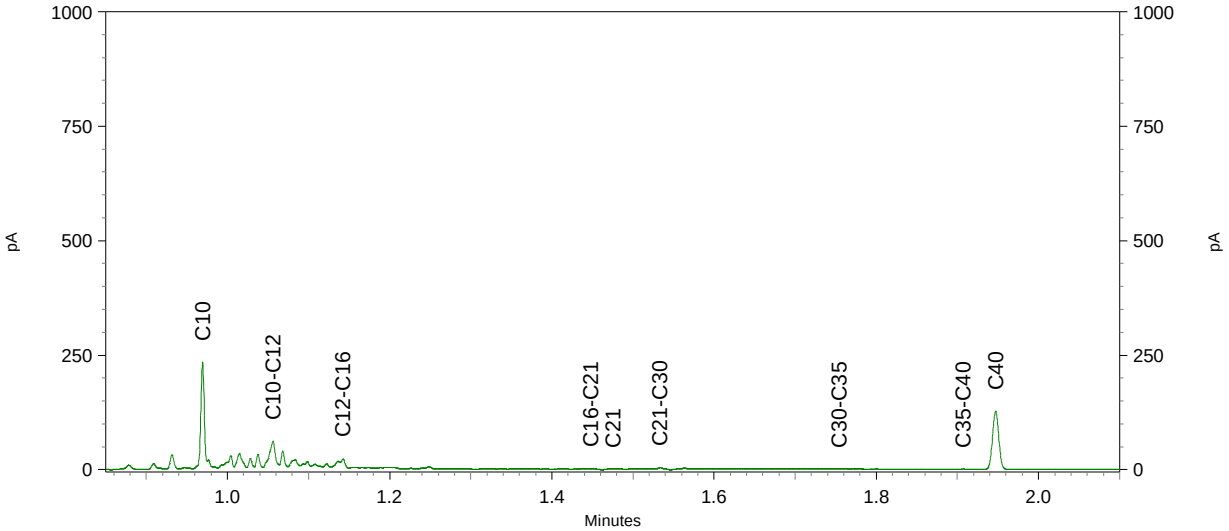
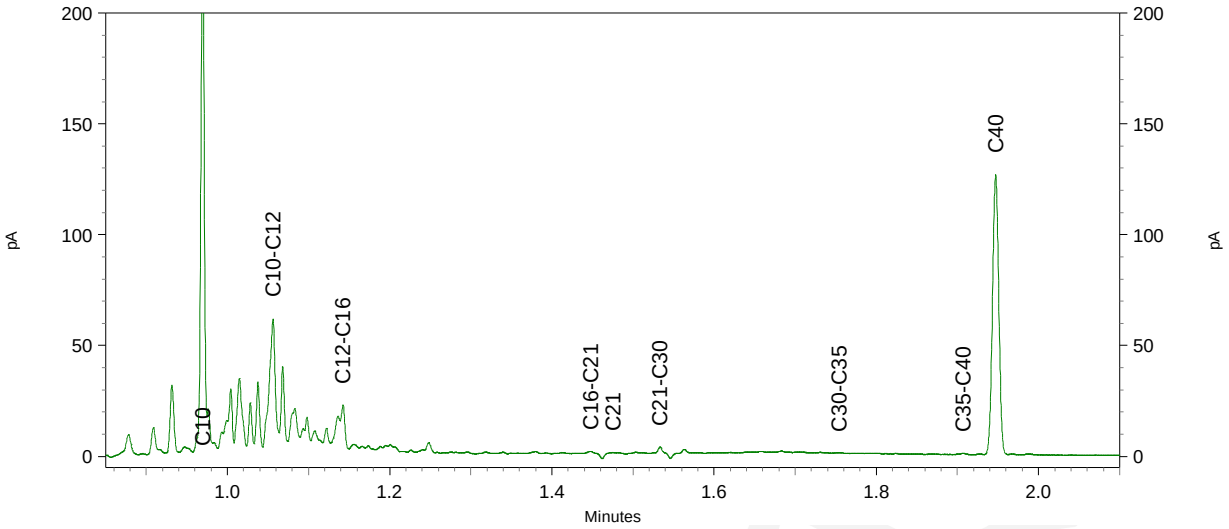
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734725
Certificate no.: 2020191944
Sample description.: 159
V







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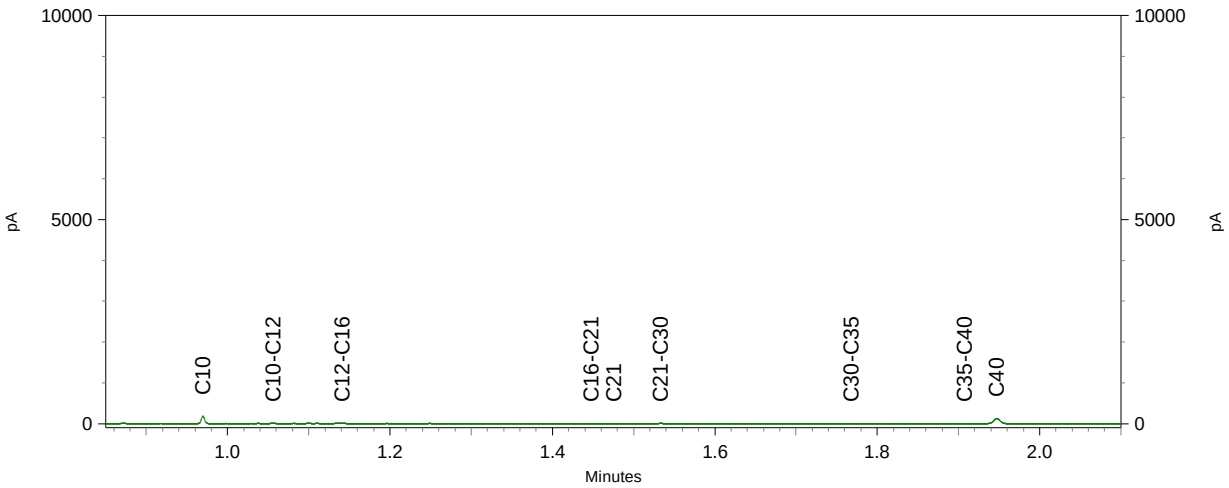
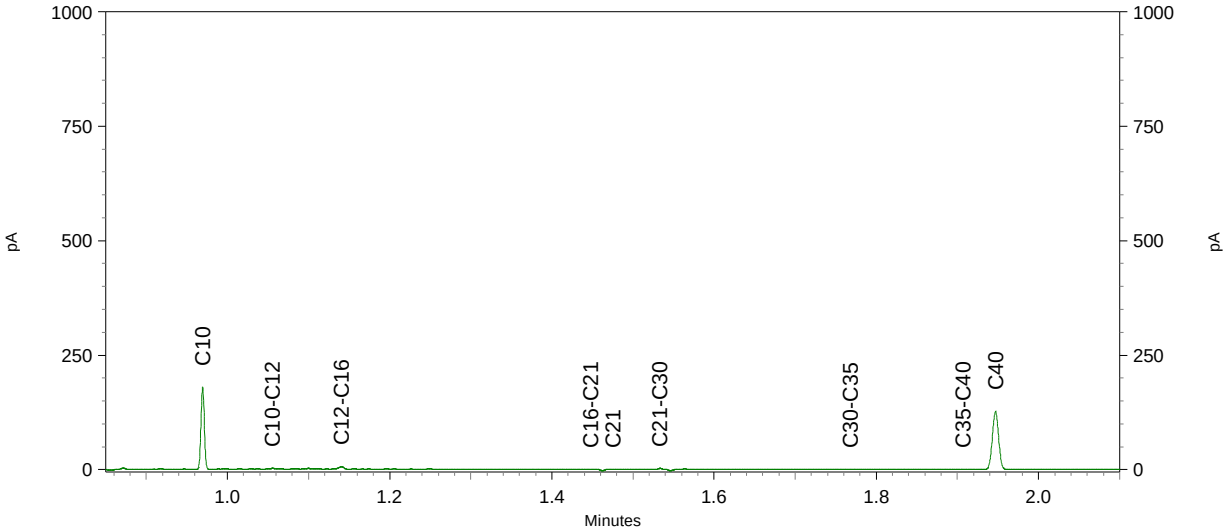
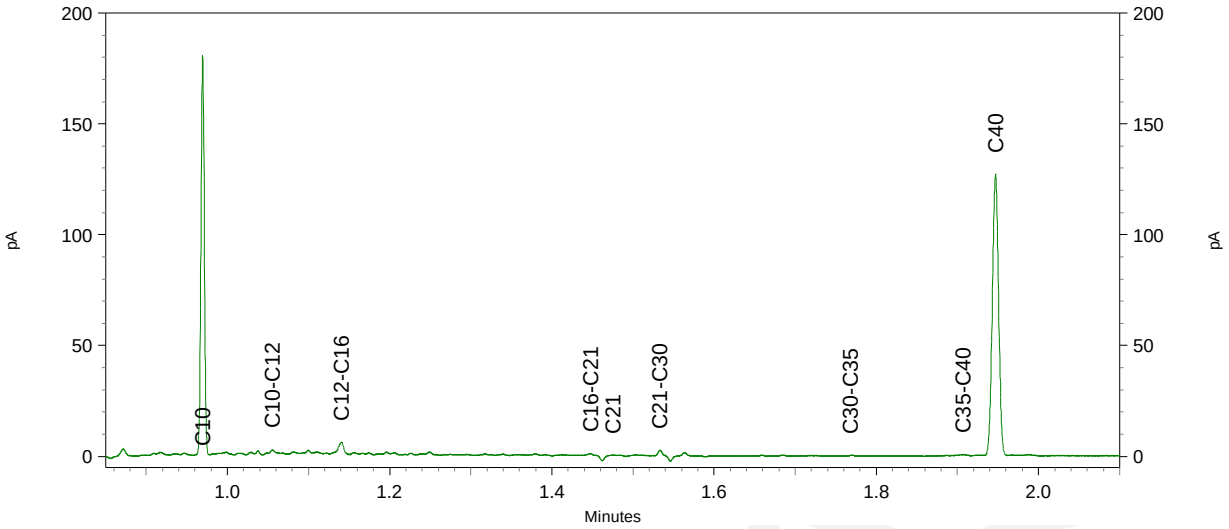
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734727
Certificate no.: 2020191944
Sample description.: VE15
V







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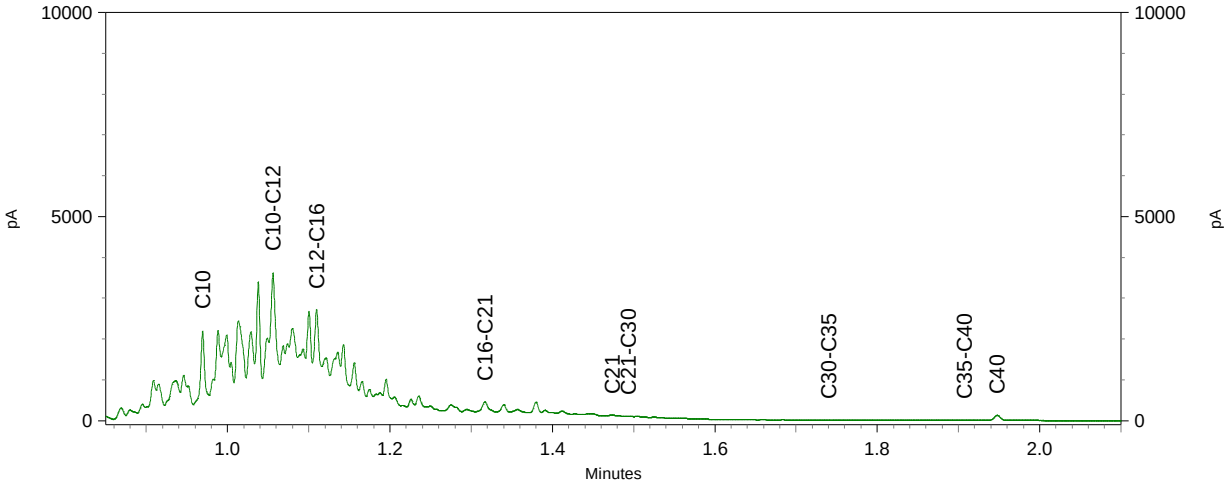
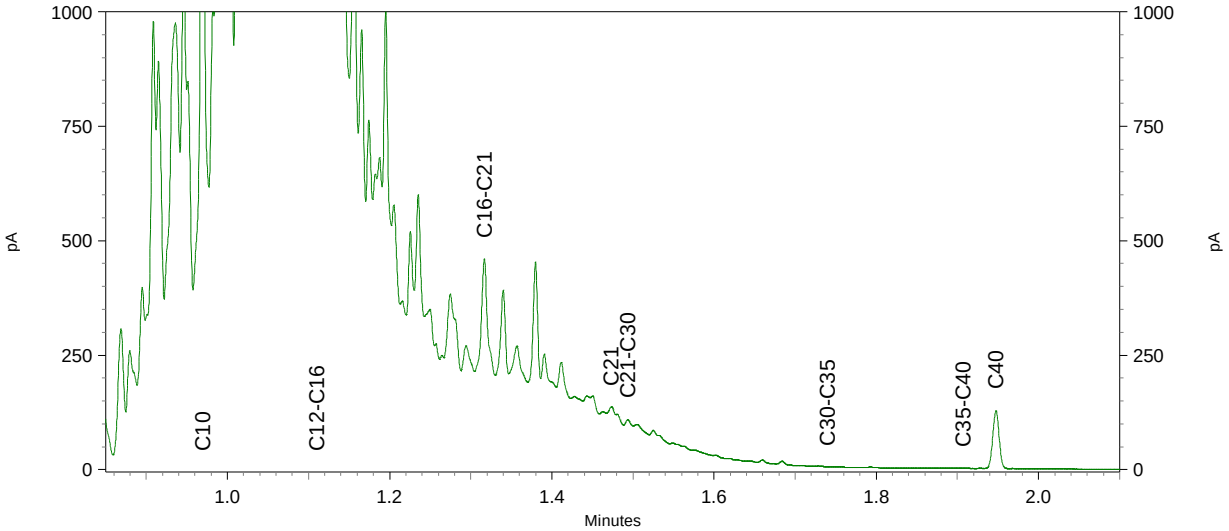
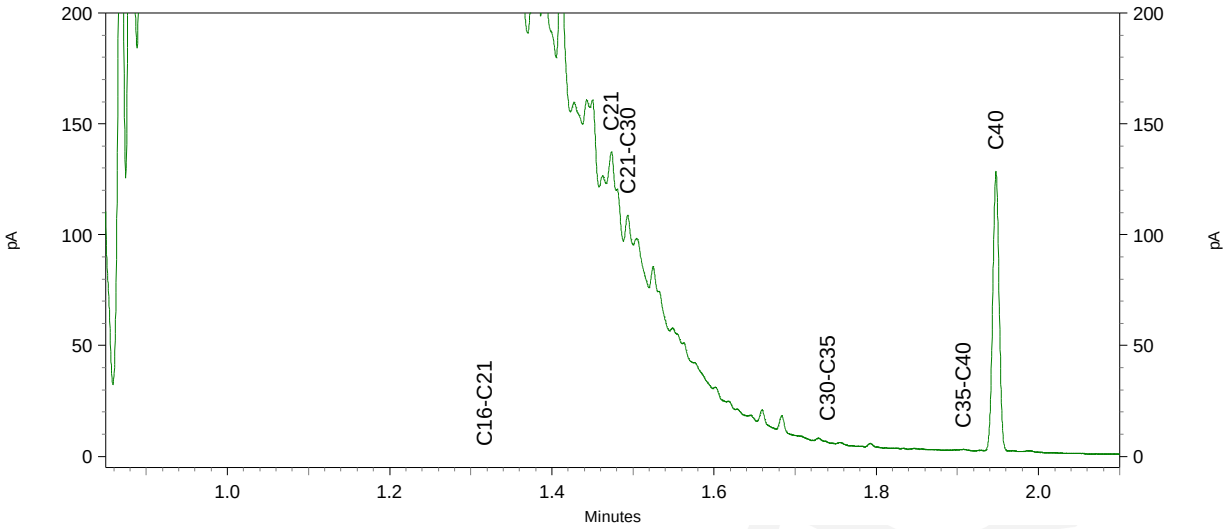
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734728
Certificate no.: 2020191944
Sample description.: 157
V







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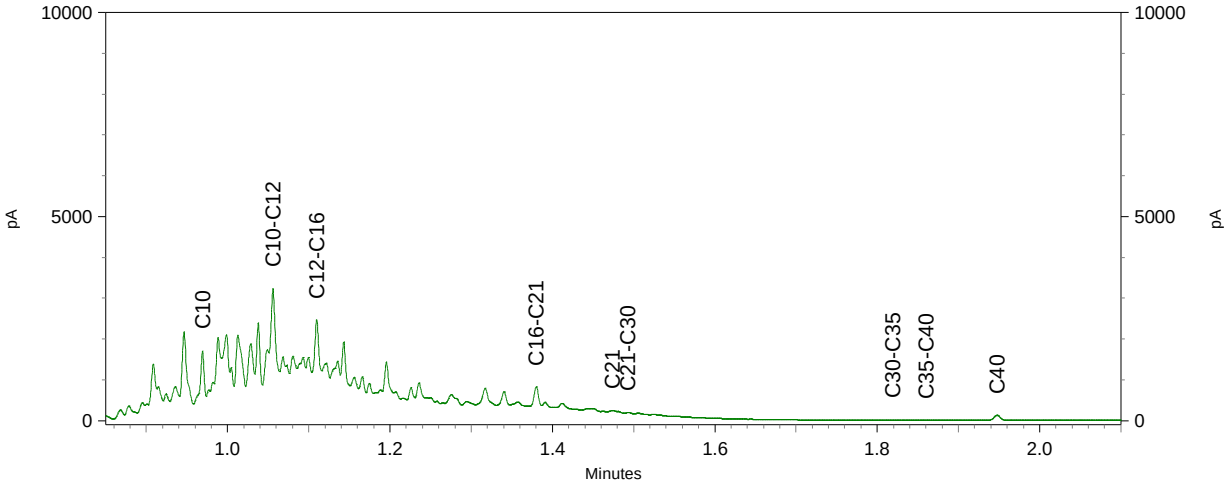
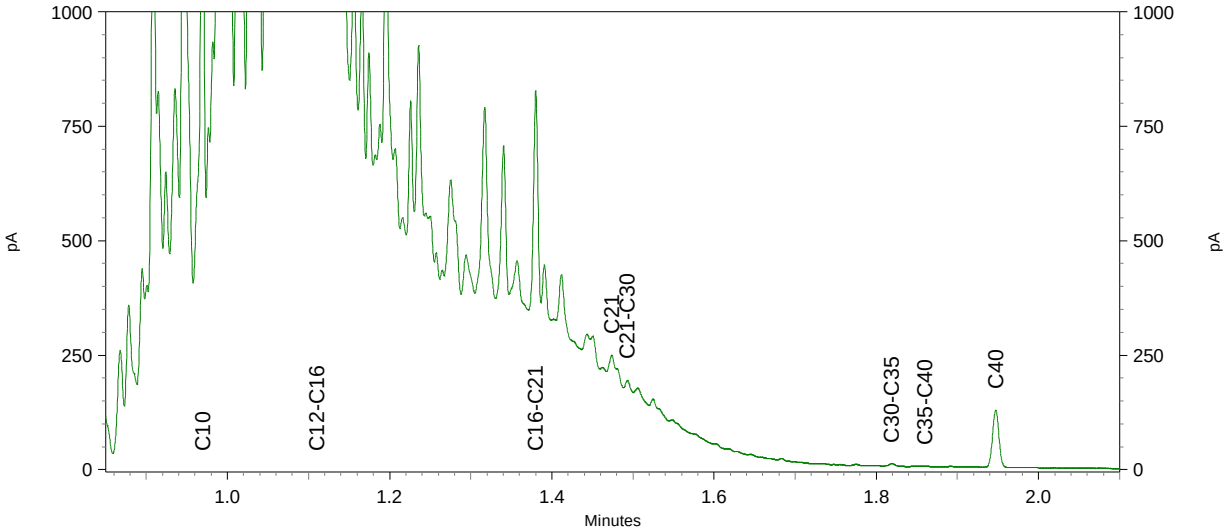
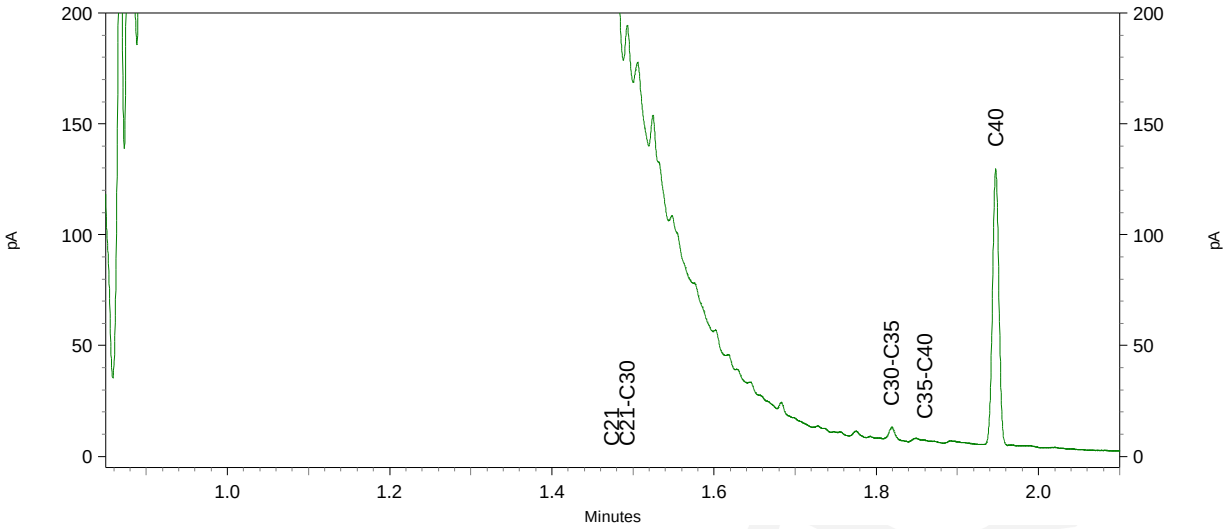
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734729
Certificate no.: 2020191944
Sample description.: 138
V







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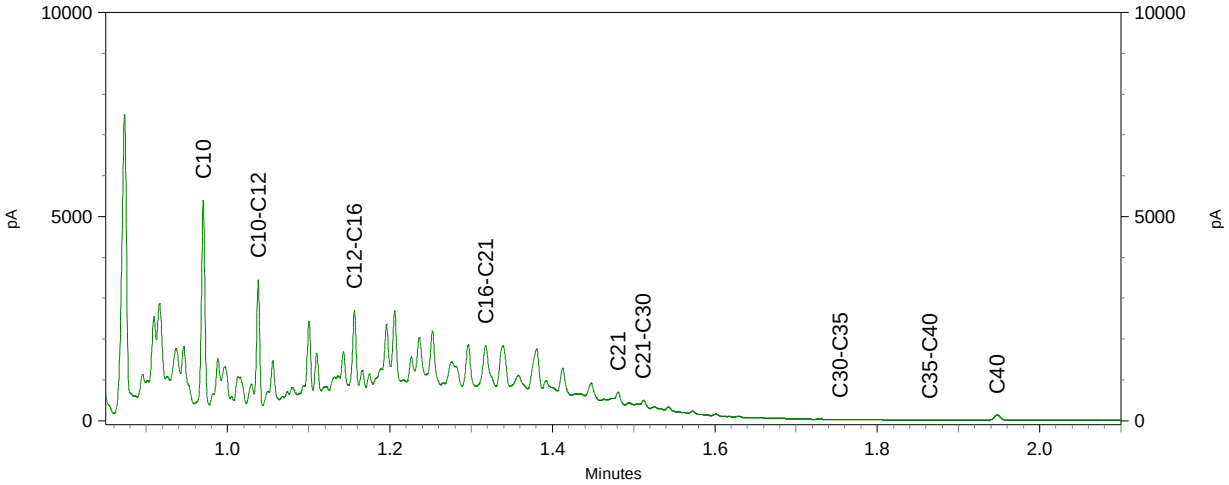
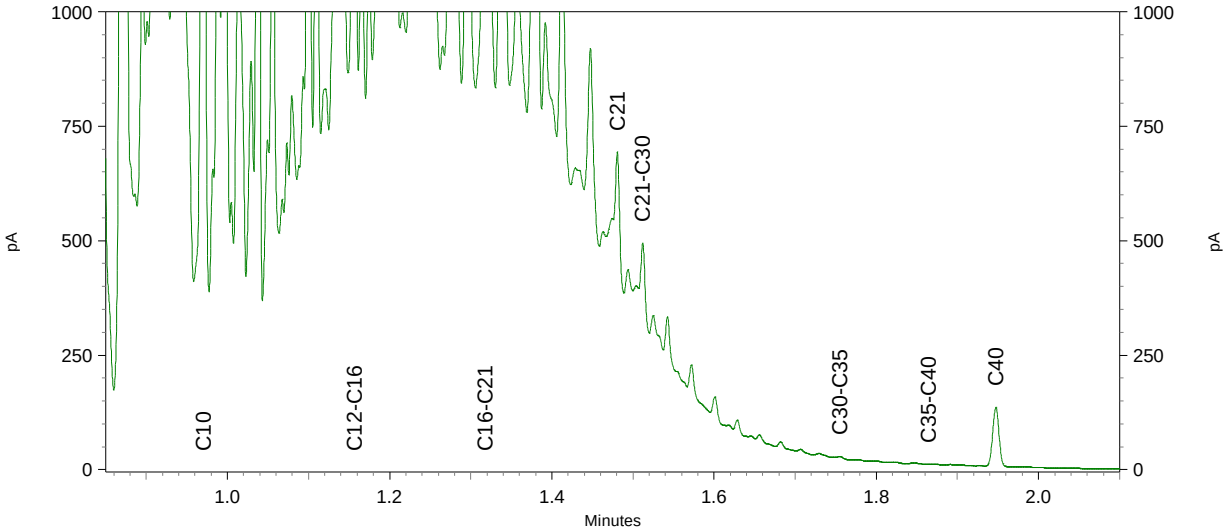
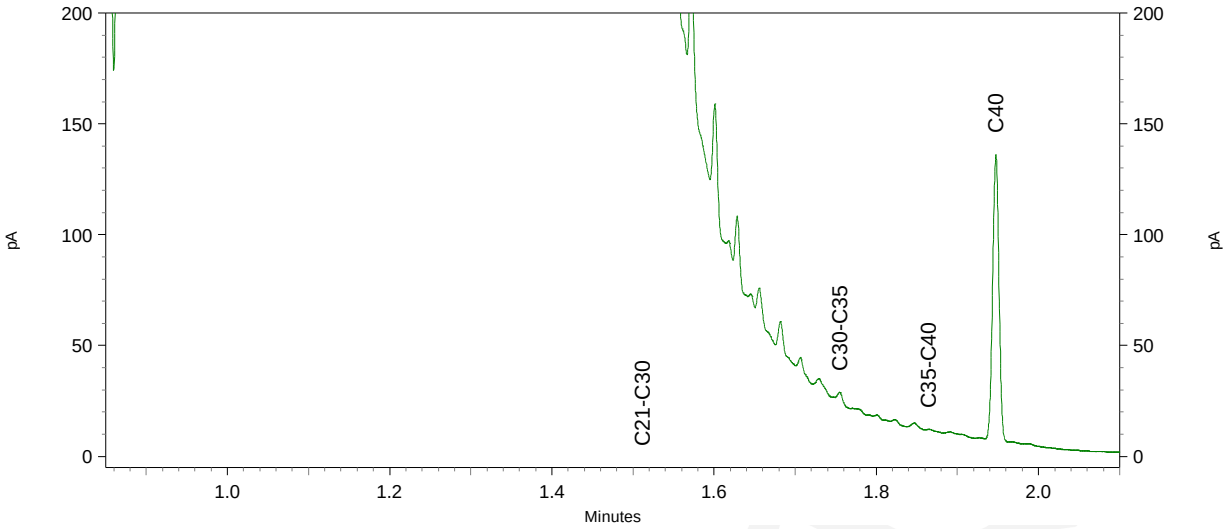
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734730
Certificate no.: 2020191944
Sample description.: 111
V







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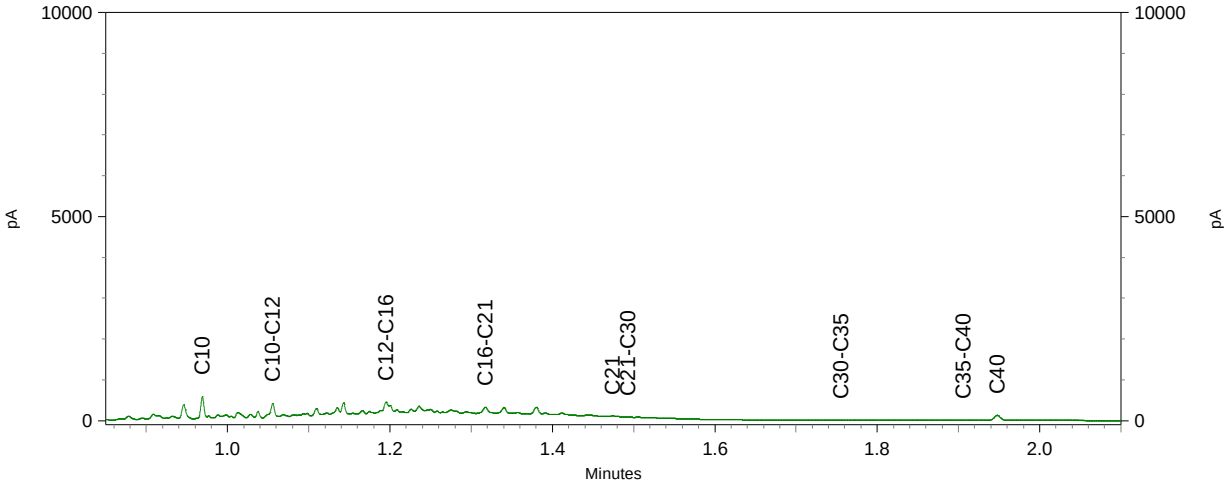
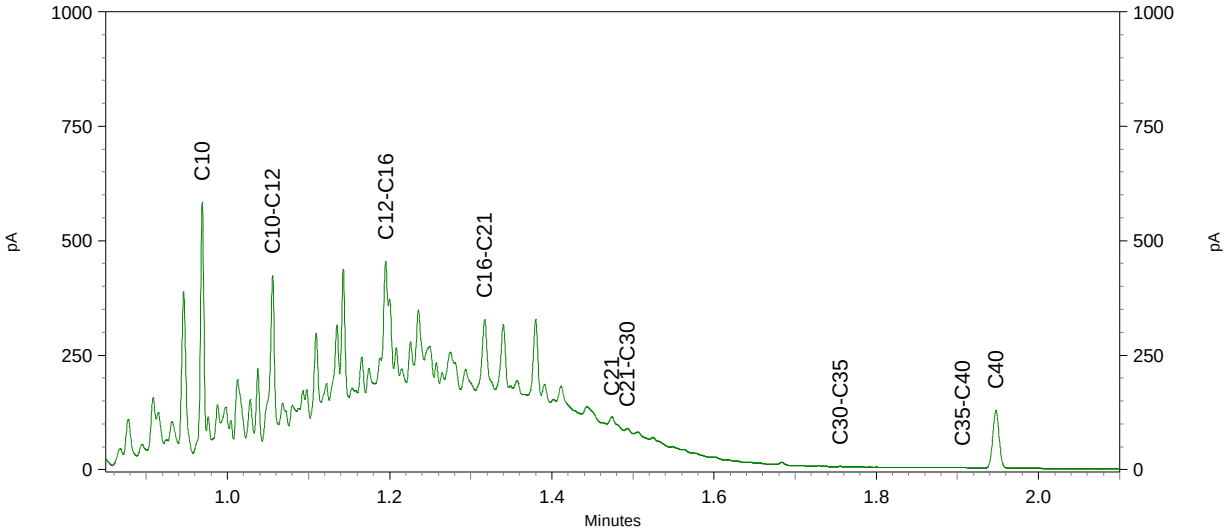
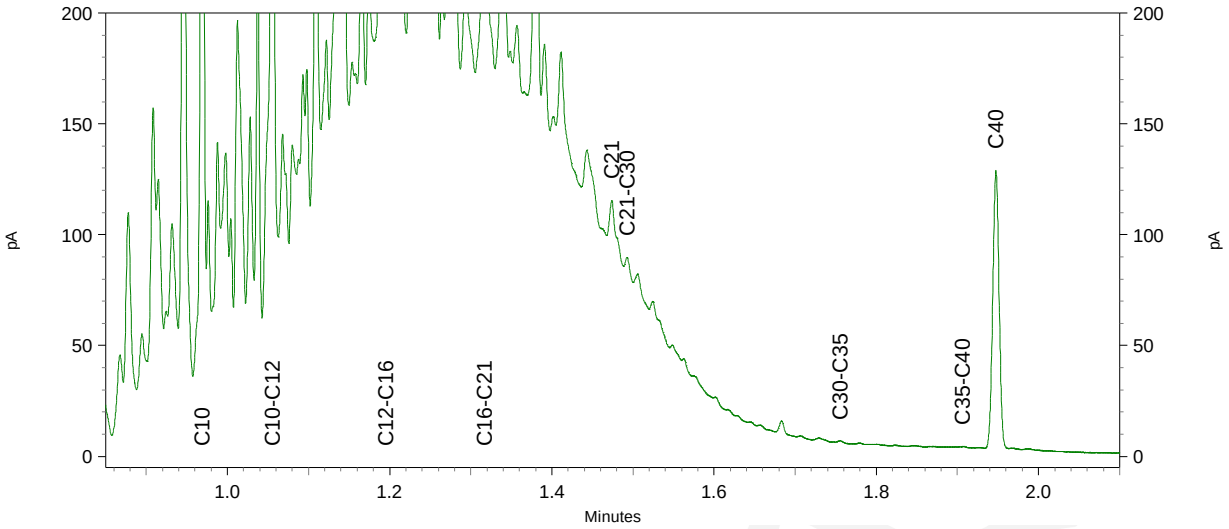
Chromatogram TPH/ Mineral Oil

Sample ID.: 11734731
Certificate no.: 2020191944
Sample description.: 100
V







SIA "Vides audits" laboratorija
Dzērbenes iela 27, Rīga, LV-1006
tālr.: 67556152, fakss: 67545146
www.videsaudits.lv
info@videsaudits.lv

01.12.2020

TESTĒŠANAS PĀRSKATS Nr. 5575-25.11/1-20

1. Informācija par pasūtītāju

Pasūtītājs: VentEko, AS
Adrese: Rīgas iela 22, Piņķi, Babītes pag., LV-2107
Tālrunis: 67913155
Fakss: 67913156

2. Pasūtītāja informācija par paraugiem:

Objekts: VNT-SAN/2020
Paraugu ņemšanas datums: 25.11.2020

N.p.k.	Ņemšanas vieta	Parauga veids
1	144.aka	naftas piesārņ.gruntsūdens

3. Paraugu apraksts

N.p.k.	Trauka veids	Daudzums
1	pudele	0.5L

Paraugu pieņemšanas datums: 25.11.2020

Testēšanas rezultāti

Testēšanas izpildes sākuma/beigu datums: 25.11.2020/01.12.2020

Nosakāmais rādītājs	Mērv.	Rezultāts	Rezultāta ~ nenoteiktība	Testēšanas metodes Nr.
1. paraugs - 144.aka				
Naftas produktu piesārņojuma vecums	gadi	>20	-	NORDTEST Method NT CHEM 001:1991¤
Ogļūdeņražu frakcija C6- C10	%	24	1	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C10- C24	%	76	4	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C24- C40	%	<1	-	LVS EN ISO 9377-2:2001

~ uzdotā nenoteiktība ir paplašinātā nenoteiktība, kas aprēķināta, izmantojot A tipa (statistisko) pieeju un pārklāšanās koeficientu 2, kurš nodrošina 95% ticamības līmeni.
Rezultāti, kas mazāki par metodes noteikšanas robežu (MDL), uzdoti ar zīmi “< “.
Skaitlis, kas atrodas aiz zīmes “< “, ir vienāds ar MDL.

¤ *norāda metodi, kura neietilpst laboratorijas akreditācijas sfērā.*
Testēšanas rezultāti attiecas tikai uz konkrētajiem paraugiem!
Paraugu ņemšanu veicis pasūtītājs.
Testēšanas laboratorija nav atbildīga par pasūtītāja sniegtajām ziņām p.2.

Laboratorijas vadītājas vietniece: Natalija Gorbunova

Rezultāti ir sagatavoti elektroniski un ir derīgi bez paraksta.
Testēšanas pārskats Nr. 5575-25.11/1-20

SIA "Vides audits" laboratorija
Dzērbenes iela 27, Rīga, LV-1006
tālr.: 67556152, fakss: 67545146
www.videsaudits.lv
info@videsaudits.lv

01.12.2020

TESTĒŠANAS PĀRSKATS Nr. 5575-25.11/5-20

1. Informācija par pasūtītāju

Pasūtītājs: VentEko, AS
Adrese: Rīgas iela 22, Piņķi, Babītes pag., LV-2107
Tālrunis: 67913155
Fakss: 67913156

2. Pasūtītāja informācija par paraugiem:

Objekts: VNT-SAN/2020
Paraugu ņemšanas datums: 25.11.2020

N.p.k.	Ņemšanas vieta	Parauga veids
1	142.aka	naftas piesārņ.gruntsūdens

3. Paraugu apraksts

N.p.k.	Trauka veids	Daudzums
1	pudele	0.5L

Paraugu pieņemšanas datums: 25.11.2020

Testēšanas rezultāti

Testēšanas izpildes sākuma/beigu datums: 25.11.2020/01.12.2020

Nosakāmais rādītājs	Mērv.	Rezultāts	Rezultāta ~ nenoteiktība	Testēšanas metodes Nr.
1. paraugs - 142.aka				
Naftas produktu piesārņojuma vecums	gadi	>20	-	NORDTEST Method NT CHEM 001:1991¤
Ogļūdeņražu frakcija C6- C10	%	21	1	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C10- C24	%	79	4	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C24- C40	%	<1	-	LVS EN ISO 9377-2:2001

~ uzdotā nenoteiktība ir paplašinātā nenoteiktība, kas aprēķināta, izmantojot A tipa (statistisko) pieeju un pārklāšanās koeficientu 2, kurš nodrošina 95% ticamības līmeni.
Rezultāti, kas mazāki par metodes noteikšanas robežu (MDL), uzdoti ar zīmi “< “.
Skaitlis, kas atrodas aiz zīmes “< “, ir vienāds ar MDL.

¤ *norāda metodi, kura neietilpst laboratorijas akreditācijas sfērā.*
Testēšanas rezultāti attiecas tikai uz konkrētajiem paraugiem!
Paraugu ņemšanu veicis pasūtītājs.
Testēšanas laboratorija nav atbildīga par pasūtītāja sniegtajām ziņām p.2.

Laboratorijas vadītājas vietniece: Natalija Gorbunova

Rezultāti ir sagatavoti elektroniski un ir derīgi bez paraksta.
Testēšanas pārskats Nr. 5575-25.11/5-20

SIA "Vides audits" laboratorija
Dzērbenes iela 27, Rīga, LV-1006
tālr.: 67556152, fakss: 67545146
www.videsaudits.lv
info@videsaudits.lv

01.12.2020

TESTĒŠANAS PĀRSKATS Nr. 5575-25.11/6-20

1. Informācija par pasūtītāju

Pasūtītājs: VentEko, AS
Adrese: Rīgas iela 22, Piņķi, Babītes pag., LV-2107
Tālrunis: 67913155
Fakss: 67913156

2. Pasūtītāja informācija par paraugiem:

Objekts: VNT-SAN/2020
Paraugu ņemšanas datums: 25.11.2020

N.p.k.	Ņemšanas vieta	Parauga veids
1	35.aka	naftas piesārņ.gruntsūdens

3. Paraugu apraksts

N.p.k.	Trauka veids	Daudzums
1	pudele	0.5L

Paraugu pieņemšanas datums: 25.11.2020

Testēšanas rezultāti

Testēšanas izpildes sākuma/beigu datums: 25.11.2020/01.12.2020

Nosakāmais rādītājs	Mērv.	Rezultāts	Rezultāta ~ nenoteiktība	Testēšanas metodes Nr.
1. paraugs - 35.aka				
Naftas produktu piesārņojuma vecums	gadi	>20	-	NORDTEST Method NT CHEM 001:1991¤
Ogļūdeņražu frakcija C6- C10	%	31	2	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C10- C24	%	69	3	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C24- C40	%	<1	-	LVS EN ISO 9377-2:2001

~ uzdotā nenoteiktība ir paplašinātā nenoteiktība, kas aprēķināta, izmantojot A tipa (statistisko) pieeju un pārklāšanās koeficientu 2, kurš nodrošina 95% ticamības līmeni.
Rezultāti, kas mazāki par metodes noteikšanas robežu (MDL), uzdoti ar zīmi “< “.
Skaitlis, kas atrodas aiz zīmes “< “, ir vienāds ar MDL.

¤ *norāda metodi, kura neietilpst laboratorijas akreditācijas sfērā.*
Testēšanas rezultāti attiecas tikai uz konkrētajiem paraugiem!
Paraugu ņemšanu veicis pasūtītājs.
Testēšanas laboratorija nav atbildīga par pasūtītāja sniegtajām ziņām p.2.

Laboratorijas vadītājas vietniece: Natalija Gorbunova

Rezultāti ir sagatavoti elektroniski un ir derīgi bez paraksta.
Testēšanas pārskats Nr. 5575-25.11/6-20

SIA "Vides audits" laboratorija
Dzērbenes iela 27, Rīga, LV-1006
tālr.: 67556152, fakss: 67545146
www.videsaudits.lv
info@videsaudits.lv

01.12.2020

TESTĒŠANAS PĀRSKATS Nr. 5575-25.11/8-20

1. Informācija par pasūtītāju

Pasūtītājs: VentEko, AS
Adrese: Rīgas iela 22, Piņķi, Babītes pag., LV-2107
Tālrunis: 67913155
Fakss: 67913156

2. Pasūtītāja informācija par paraugiem:

Objekts: VNT-SAN/2020
Paraugu ņemšanas datums: 25.11.2020

N.p.k.	Ņemšanas vieta	Parauga veids
1	15B.aka	naftas piesārņ.gruntsūdens

3. Paraugu apraksts

N.p.k.	Trauka veids	Daudzums
1	pudele	0.5L

Paraugu pieņemšanas datums: 25.11.2020

Testēšanas rezultāti

Testēšanas izpildes sākuma/beigu datums: 25.11.2020/01.12.2020

Nosakāmais rādītājs	Mērv.	Rezultāts	Rezultāta ~ nenoteiktība	Testēšanas metodes Nr.
1. paraugs - 15B.aka				
Naftas produktu piesārņojuma vecums	gadi	>20	-	NORDTEST Method NT CHEM 001:1991¤
Ogļūdeņražu frakcija C6- C10	%	8	0	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C10- C24	%	92	5	LVS EN ISO 9377-2:2001
Ogļūdeņražu frakcija C24- C40	%	<1	-	LVS EN ISO 9377-2:2001

~ uzdotā nenoteiktība ir paplašinātā nenoteiktība, kas aprēķināta, izmantojot A tipa (statistisko) pieeju un pārklāšanās koeficientu 2, kurš nodrošina 95% ticamības līmeni.
Rezultāti, kas mazāki par metodes noteikšanas robežu (MDL), uzdoti ar zīmi “< “.
Skaitlis, kas atrodas aiz zīmes “< “, ir vienāds ar MDL.

¤ *norāda metodi, kura neietilpst laboratorijas akreditācijas sfērā.*
Testēšanas rezultāti attiecas tikai uz konkrētajiem paraugiem!
Paraugu ņemšanu veicis pasūtītājs.
Testēšanas laboratorija nav atbildīga par pasūtītāja sniegtajām ziņām p.2.

Laboratorijas vadītājas vietniece: Natalija Gorbunova

Rezultāti ir sagatavoti elektroniski un ir derīgi bez paraksta.
Testēšanas pārskats Nr. 5575-25.11/8-20