



**CORINEX COMMUNICATIONS CORP.
IN-SITU TEST REPORT**

FOR THE

BPL MEDIUM VOLTAGE ACCESS GATEWAY

**FCC PART 15, SUBPART G
SECTIONS 15.209 AND 15.109 CLASS A**

COMPLIANCE

VOLUME 5: MEDIUM VOLTAGE 2-30MHZ UNDERGROUND

DATE OF ISSUE: MAY 19, 2006

PREPARED FOR:

Corinex Communications Corp.
789 West Pender Street, Suite 670
Vancouver BC V6C 1H2 Canada

P.O. No.: 2006/SS/0018
W.O. No.: 84818

PREPARED BY:

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Date of test: March 16 - May 2, 2006

Report No.: FC06-025 Volume 5 of 9

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**MEDIUM VOLTAGE 2-30MHz UNDERGROUND
MEASUREMENT DATA SHEETS**

Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 12:47:57
 Equipment: **BPL MV Gateway** Sequence#: 64
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

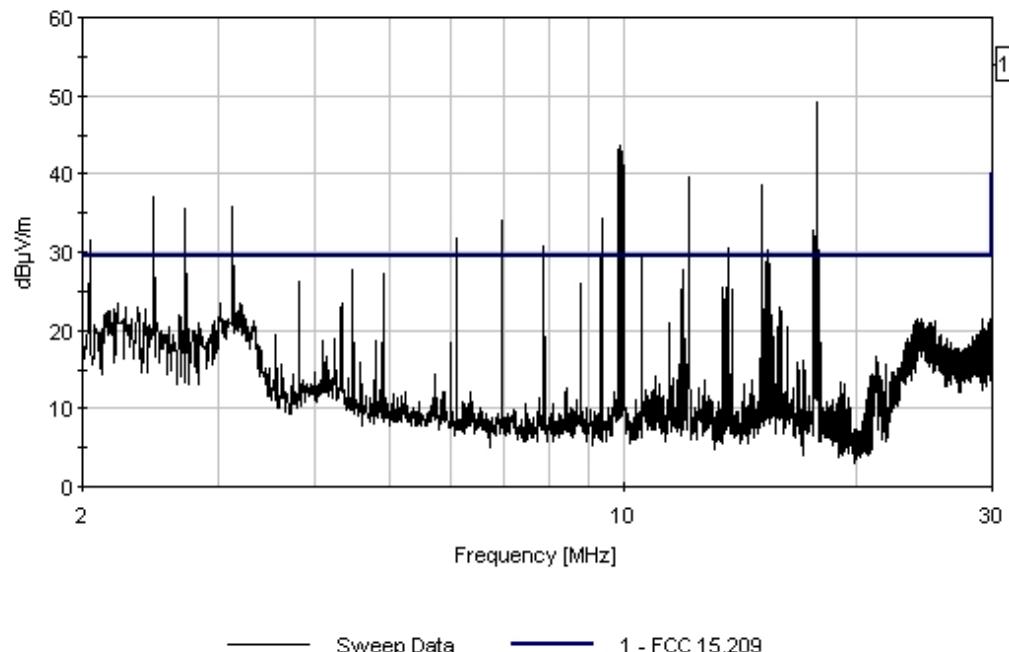
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 1. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from and 2.8-3.5MHz and 22.5-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	3.130M	32.5	+0.1	+9.3	+0.1	-19.1	+0.0	22.9	29.5	-6.6	Perpe
2	3.291M	31.8	+0.1	+9.3	+0.1	-19.1	+0.0	22.2	29.5	-7.3	Perpe
3	23.900M	33.6	+0.2	+7.1	+0.3	-19.1	+0.0	22.1	29.5	-7.4	Perpe
4	25.330M	32.7	+0.2	+6.8	+0.3	-19.1	+0.0	20.9	29.5	-8.6	Perpe
5	29.980M	34.3	+0.3	+5.0	+0.3	-19.1	+0.0	20.8	29.5	-8.7	Perpe
6	3.025M	29.7	+0.1	+9.3	+0.1	-19.1	+0.0	20.1	29.5	-9.4	Perpe
7	28.280M	32.5	+0.3	+5.6	+0.3	-19.1	+0.0	19.6	29.5	-9.9	Perpe
8	3.370M	25.2	+0.1	+9.3	+0.1	-19.1	+0.0	15.6	29.5	-13.9	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 12:47:57 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 64 Perpendicular
Underground Site 1 Position 1. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 12:39:31
 Equipment: **BPL MV Gateway** Sequence#: 63
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

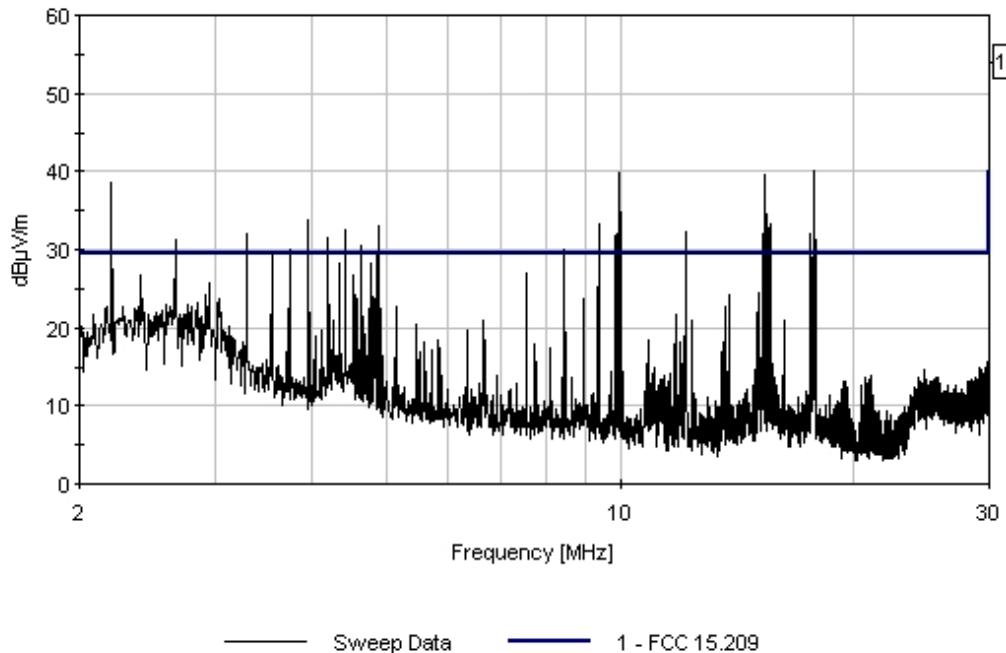
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 1. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22.5-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

Measurement Data: Reading listed by margin. Test Distance: 10 Meters											
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	29.850M	30.1	+0.3	+5.1	+0.3	-19.1	+0.0	16.7	29.5	-12.8	Paral
2	29.100M	29.2	+0.3	+5.3	+0.3	-19.1	+0.0	16.0	29.5	-13.5	Paral
3	25.350M	26.5	+0.2	+6.8	+0.3	-19.1	+0.0	14.7	29.5	-14.8	Paral
4	26.330M	26.6	+0.2	+6.4	+0.3	-19.1	+0.0	14.4	29.5	-15.2	Paral
5	24.280M	25.3	+0.2	+7.1	+0.3	-19.1	+0.0	13.8	29.5	-15.7	Paral
6	27.850M	24.7	+0.3	+5.8	+0.3	-19.1	+0.0	12.0	29.5	-17.5	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 12:39:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 63 Parallel
Underground Site 1 Position 1. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 12:51:03
 Equipment: **BPL MV Gateway** Sequence#: 66
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

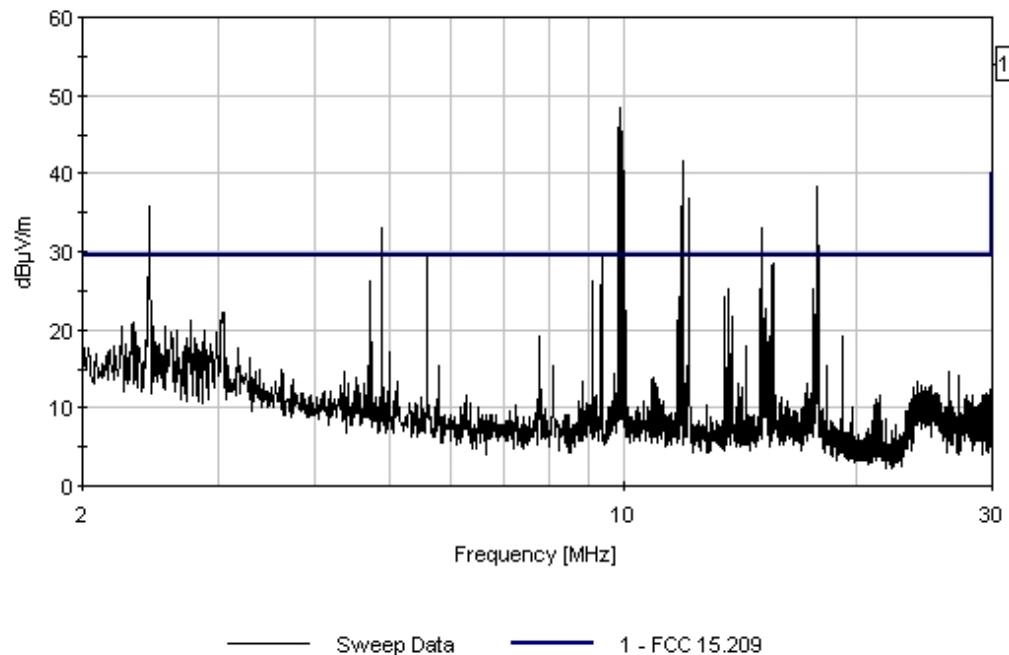
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 2. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22.5-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.050M	24.9	+0.2	+7.1	+0.3	-19.1	+0.0	13.4	29.5	-16.1	Paral
2	27.230M	24.7	+0.2	+6.0	+0.3	-19.1	+0.0	12.1	29.5	-17.4	Paral
3	29.830M	25.1	+0.3	+5.1	+0.3	-19.1	+0.0	11.7	29.5	-17.8	Paral
4	25.030M	22.7	+0.2	+6.9	+0.3	-19.1	+0.0	11.0	29.5	-18.5	Paral
5	29.050M	24.0	+0.3	+5.3	+0.3	-19.1	+0.0	10.8	29.5	-18.7	Paral
6	26.050M	21.2	+0.2	+6.5	+0.3	-19.1	+0.0	9.1	29.5	-20.4	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 12:51:03 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 66 Parallel
Underground Site 1 Position 2. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 12:54:16
 Equipment: **BPL MV Gateway** Sequence#: 67
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

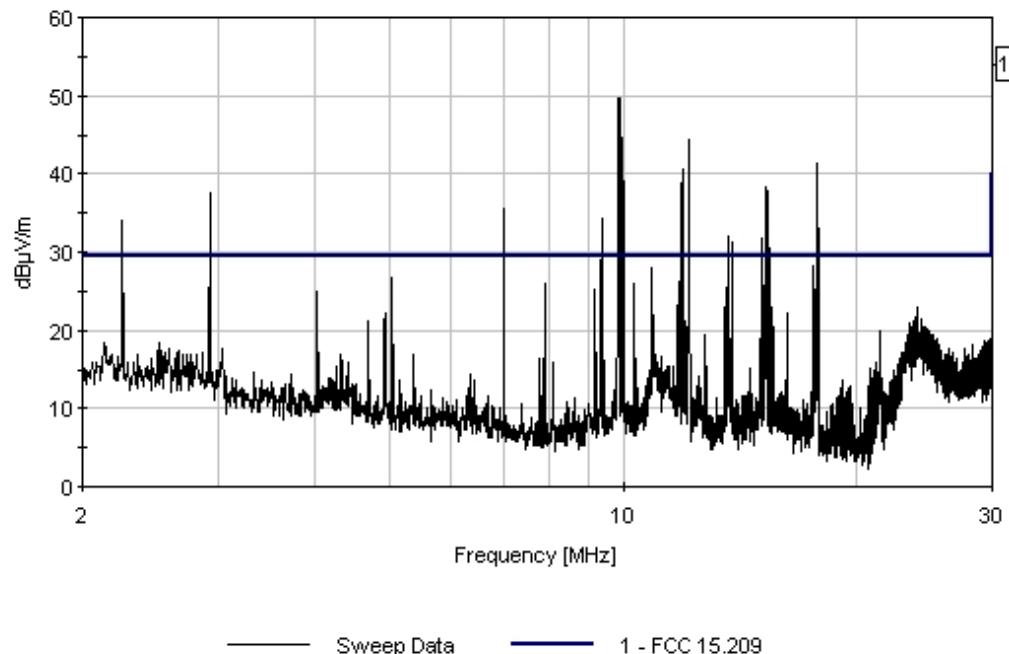
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 2. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.050M	33.7	+0.2	+7.1	+0.3	-19.1	+0.0	22.2	29.5	-7.3	Perpe
2	23.280M	31.7	+0.2	+7.3	+0.3	-19.1	+0.0	20.4	29.5	-9.1	Perpe
3	29.980M	33.0	+0.3	+5.0	+0.3	-19.1	+0.0	19.5	29.5	-10.0	Perpe
4	25.150M	31.0	+0.2	+6.8	+0.3	-19.1	+0.0	19.2	29.5	-10.4	Perpe
5	27.680M	30.1	+0.3	+5.8	+0.3	-19.1	+0.0	17.4	29.5	-12.1	Perpe
6	29.200M	30.5	+0.3	+5.3	+0.3	-19.1	+0.0	17.3	29.5	-12.2	Perpe
7	26.100M	28.4	+0.2	+6.5	+0.3	-19.1	+0.0	16.3	29.5	-13.2	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 12:54:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 67 Perpendicular
Underground Site 1 Position 2. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 14:37:16
 Equipment: **BPL MV Gateway** Sequence#: 79
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

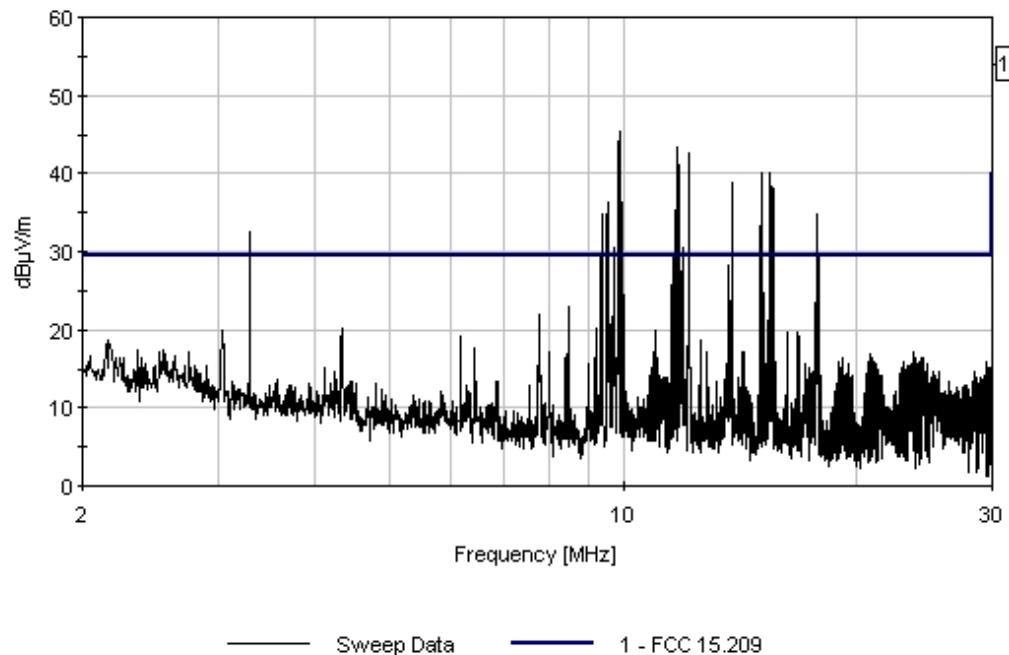
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 3. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.933M	28.7	+0.2	+7.1	+0.3	-19.1	+0.0	17.2	29.5	-12.4	Perpe
2	23.451M	27.3	+0.2	+7.2	+0.3	-19.1	+0.0	15.9	29.5	-13.6	Perpe
3	24.551M	26.9	+0.2	+7.0	+0.3	-19.1	+0.0	15.3	29.5	-14.2	Perpe
4	23.108M	25.9	+0.2	+7.3	+0.3	-19.1	+0.0	14.6	29.5	-14.9	Perpe
5	25.019M	25.8	+0.2	+6.9	+0.3	-19.1	+0.0	14.1	29.5	-15.5	Perpe
6	25.473M	25.3	+0.2	+6.7	+0.3	-19.1	+0.0	13.4	29.5	-16.1	Perpe
7	22.516M	24.2	+0.2	+7.5	+0.3	-19.1	+0.0	13.1	29.5	-16.4	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 14:37:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 79 Perpendicular
Underground Site 1 Position 3. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:33:17 PM
 Equipment: **BPL MV Gateway** Sequence#: 78
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

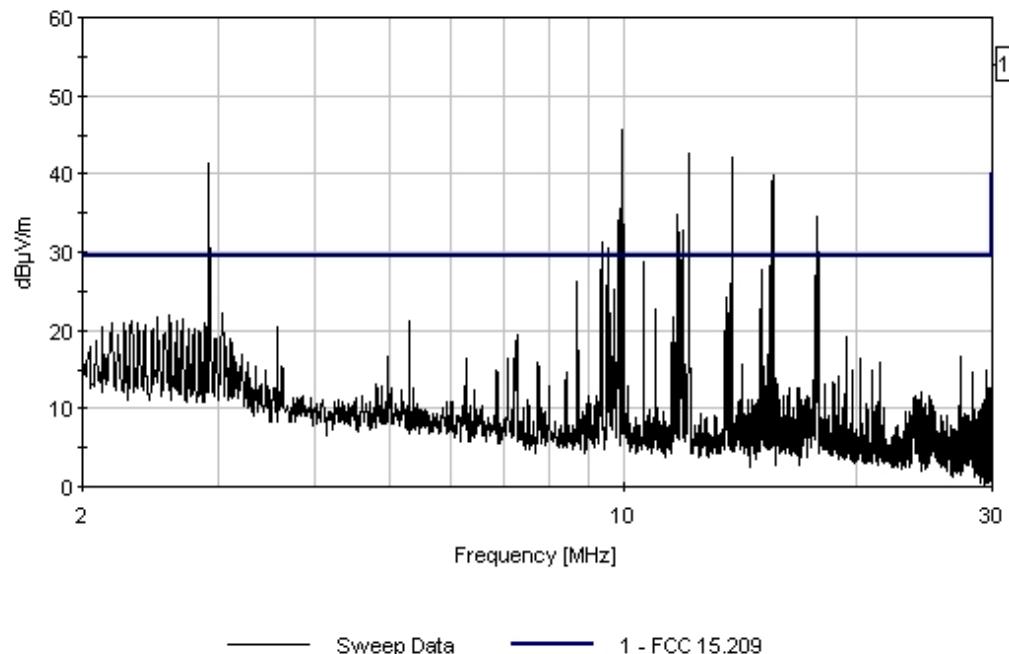
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 3. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	20.972M	25.8	+0.2	+7.8	+0.3	-19.1	+0.0	15.0	29.5	-14.5	Paral
2	29.513M	28.1	+0.3	+5.2	+0.3	-19.1	+0.0	14.8	29.5	-14.7	Paral
3	28.339M	27.4	+0.3	+5.6	+0.3	-19.1	+0.0	14.5	29.5	-15.0	Paral
4	27.314M	26.2	+0.2	+6.0	+0.3	-19.1	+0.0	13.6	29.5	-15.9	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 2:33:17 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 78 Parallel
Underground Site 1 Position 3. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:39:47 PM
 Equipment: **BPL MV Gateway** Sequence#: 81
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

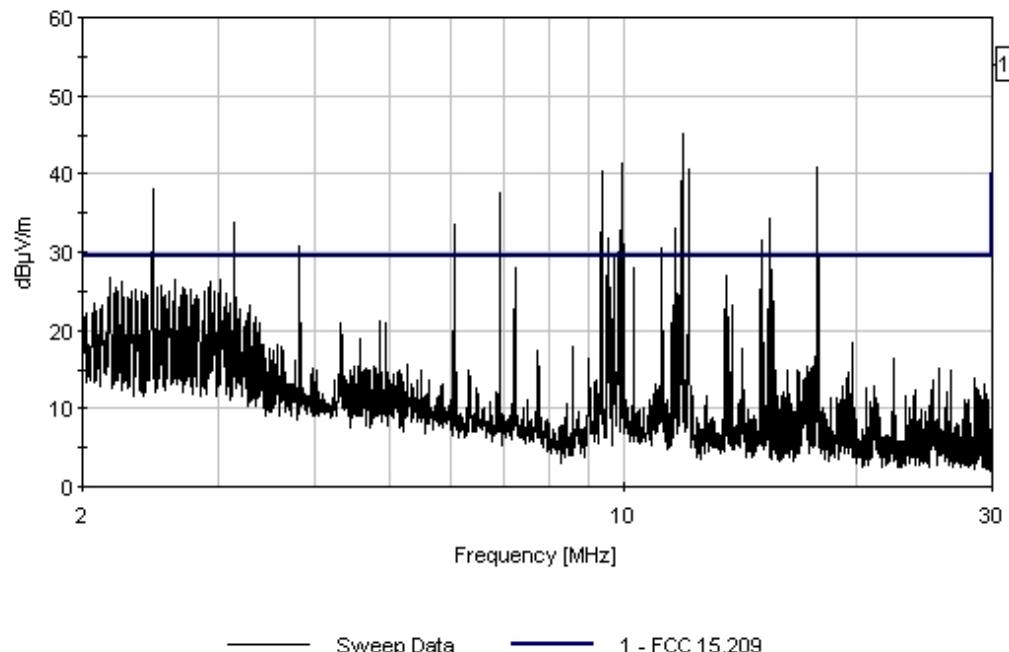
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 4. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	20.651M	23.4	+0.2	+7.9	+0.3	-19.1	+0.0	12.7	29.5	-16.8	Paral
2	24.992M	24.1	+0.2	+6.9	+0.3	-19.1	+0.0	12.4	29.5	-17.1	Paral
3	28.812M	25.2	+0.3	+5.4	+0.3	-19.1	+0.0	12.1	29.5	-17.4	Paral
4	26.158M	23.8	+0.2	+6.4	+0.3	-19.1	+0.0	11.6	29.5	-17.9	Paral
5	18.560M	21.8	+0.2	+8.2	+0.3	-19.1	+0.0	11.4	29.5	-18.1	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 2:39:47 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 81 Parallel
Underground Site 1 Position 4. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:37:47 PM
 Equipment: **BPL MV Gateway** Sequence#: 80
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

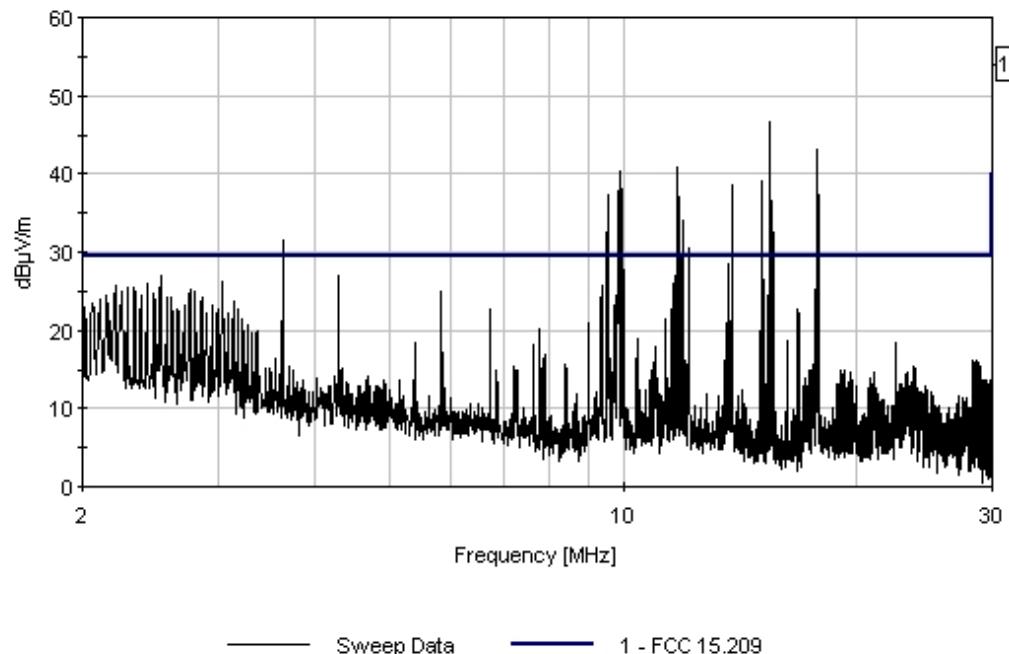
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 4. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	28.369M	29.0	+0.3	+5.6	+0.3	-19.1	+0.0	16.1	29.5	-13.4	Perpe
2	23.294M	25.8	+0.2	+7.3	+0.3	-19.1	+0.0	14.5	29.5	-15.0	Perpe
3	20.822M	24.5	+0.2	+7.9	+0.3	-19.1	+0.0	13.8	29.5	-15.7	Perpe
4	29.854M	27.1	+0.3	+5.1	+0.3	-19.1	+0.0	13.7	29.5	-15.8	Perpe
5	18.932M	23.6	+0.2	+8.2	+0.3	-19.1	+0.0	13.2	29.5	-16.3	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 2:37:47 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 80 Perpendicular
Underground Site 1 Position 4. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:41:11 PM
 Equipment: **BPL MV Gateway** Sequence#: 82
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

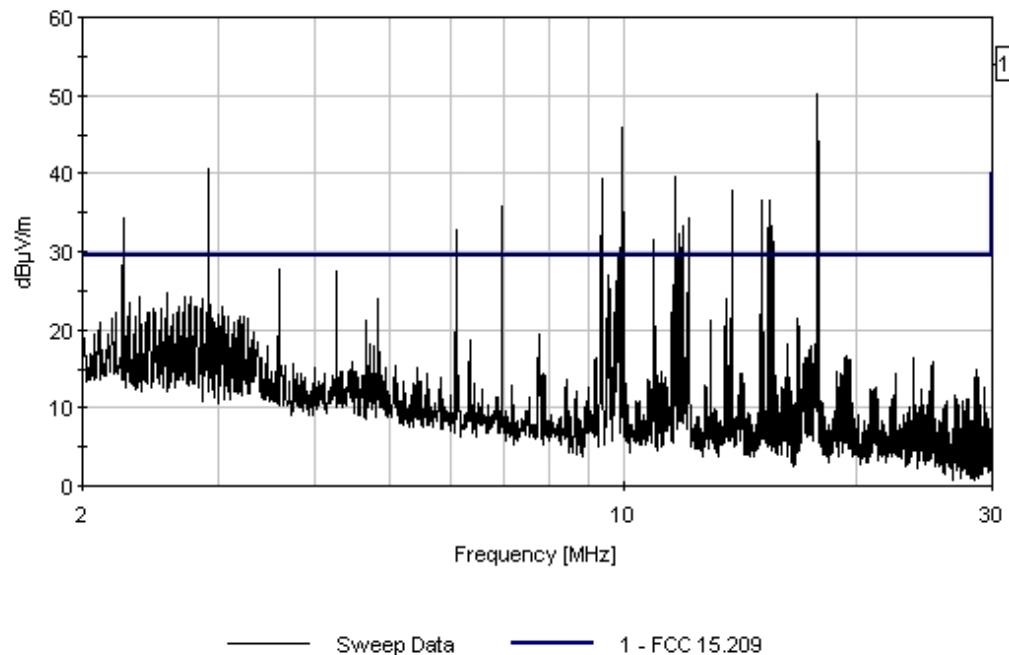
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 5. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.530M	25.4	+0.2	+7.5	+0.3	-19.1	+0.0	14.3	29.5	-15.2	Paral
2	24.972M	25.9	+0.2	+6.9	+0.3	-19.1	+0.0	14.2	29.5	-15.3	Paral
3	19.143M	24.2	+0.2	+8.2	+0.3	-19.1	+0.0	13.8	29.5	-15.7	Paral
4	28.520M	26.8	+0.3	+5.5	+0.3	-19.1	+0.0	13.8	29.5	-15.7	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 2:41:11 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 82 Parallel
Underground Site 1 Position 5. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:43:53 PM
 Equipment: **BPL MV Gateway** Sequence#: 83
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

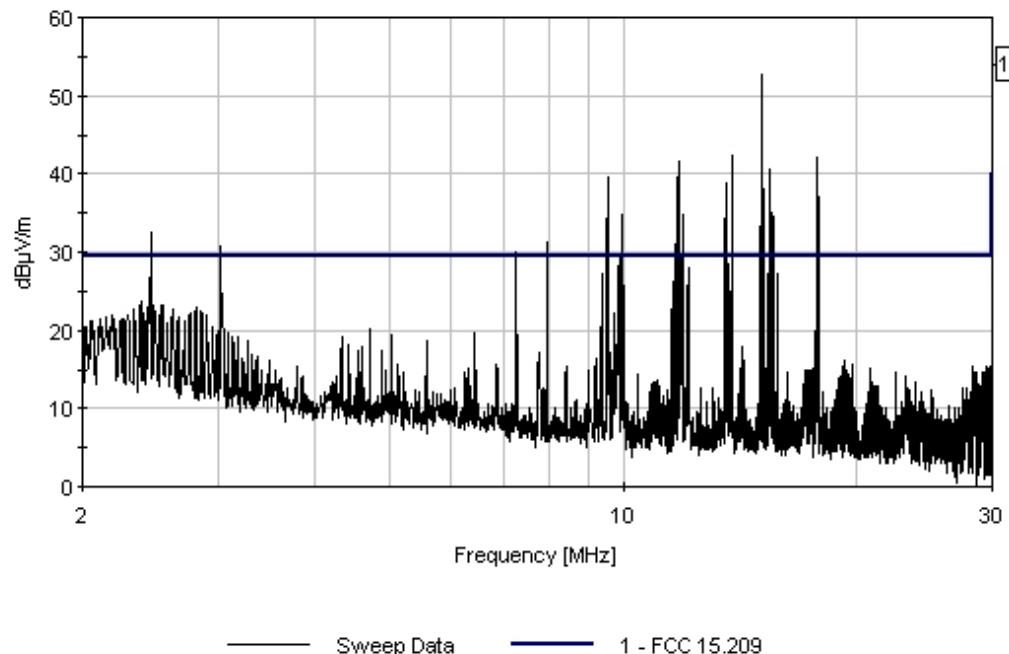
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 5. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	19.304M	23.3	+0.2	+8.2	+0.3	-19.1	+0.0	12.9	29.5	-16.6	Perpe
2	21.405M	23.7	+0.2	+7.7	+0.3	-19.1	+0.0	12.8	29.5	-16.7	Perpe
3	28.922M	25.9	+0.3	+5.4	+0.3	-19.1	+0.0	12.8	29.5	-16.7	Perpe
4	23.153M	24.0	+0.2	+7.3	+0.3	-19.1	+0.0	12.7	29.5	-16.8	Perpe
5	27.827M	25.3	+0.3	+5.8	+0.3	-19.1	+0.0	12.6	29.5	-16.9	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 2:43:53 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 83 Perpendicular
Underground Site 1 Position 5. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:45:18 PM
 Equipment: **BPL MV Gateway** Sequence#: 84
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

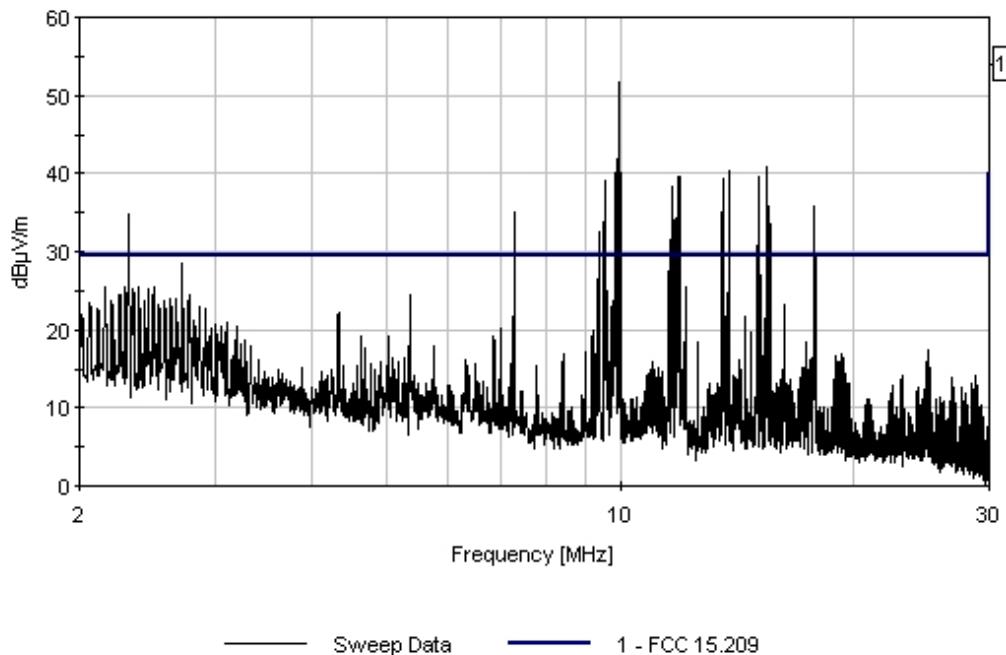
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 6. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	19.033M	27.1	+0.2	+8.2	+0.3	-19.1	+0.0	16.7	29.5	-12.8	Paral
2	25.063M	26.9	+0.2	+6.9	+0.3	-19.1	+0.0	15.2	29.5	-14.3	Paral
3	28.721M	27.1	+0.3	+5.5	+0.3	-19.1	+0.0	14.1	29.5	-15.4	Paral
4	23.083M	25.0	+0.2	+7.3	+0.3	-19.1	+0.0	13.7	29.5	-15.8	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 2:45:18 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 84 Parallel
Underground Site 1 Position 6. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:52:21 PM
 Equipment: **BPL MV Gateway** Sequence#: 85
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

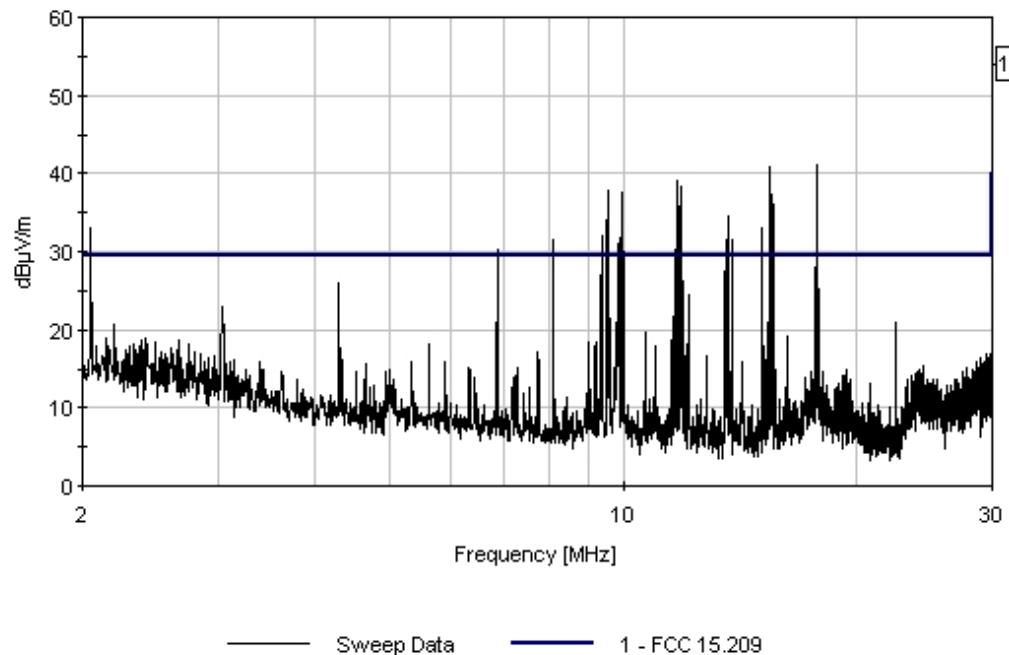
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 6. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	28.922M	29.6	+0.3	+5.4	+0.3	-19.1	+0.0	16.5	29.5	-13.0	Perpe
2	29.694M	29.8	+0.3	+5.1	+0.3	-19.1	+0.0	16.4	29.5	-13.1	Perpe
3	24.400M	26.9	+0.2	+7.0	+0.3	-19.1	+0.0	15.3	29.5	-14.2	Perpe
4	19.455M	25.5	+0.2	+8.1	+0.3	-19.1	+0.0	15.0	29.5	-14.5	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 2:52:21 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 85 Perpendicular
Underground Site 1 Position 6. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:53:38 PM
 Equipment: **BPL MV Gateway** Sequence#: 86
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

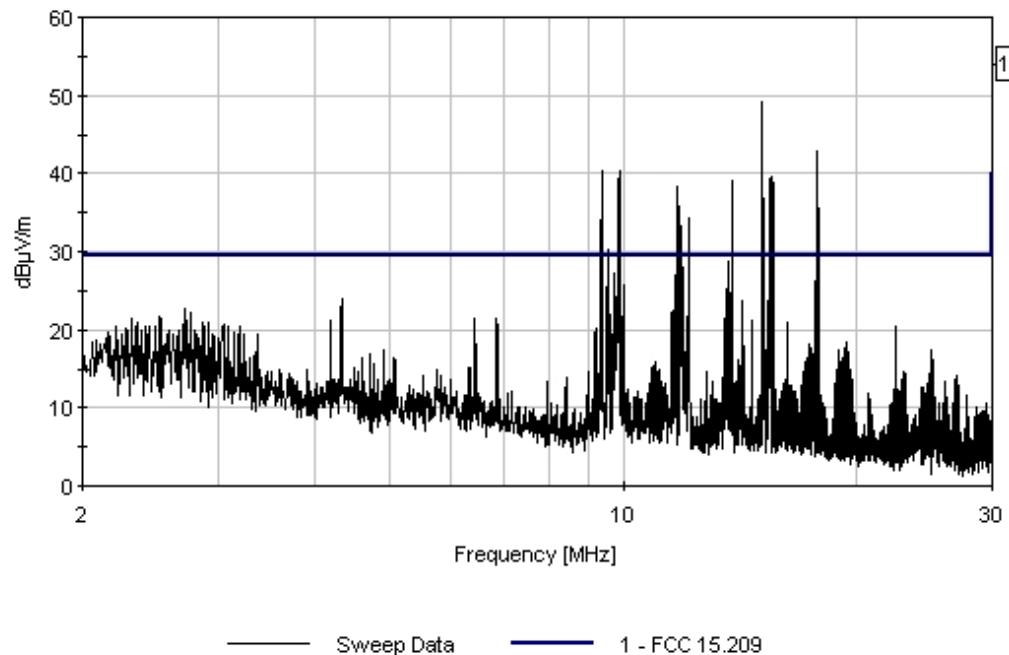
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 7. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	19.425M	28.2	+0.2	+8.2	+0.3	-19.1	+0.0	17.8	29.5	-11.7	Paral
2	24.992M	29.2	+0.2	+6.9	+0.3	-19.1	+0.0	17.5	29.5	-12.0	Paral
3	25.063M	28.4	+0.2	+6.9	+0.3	-19.1	+0.0	16.7	29.5	-12.8	Paral
4	26.465M	27.3	+0.2	+6.3	+0.3	-19.1	+0.0	15.0	29.5	-14.5	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 2:53:38 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 86 Parallel
Underground Site 1 Position 7. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 14:57:31
 Equipment: **BPL MV Gateway** Sequence#: 87
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

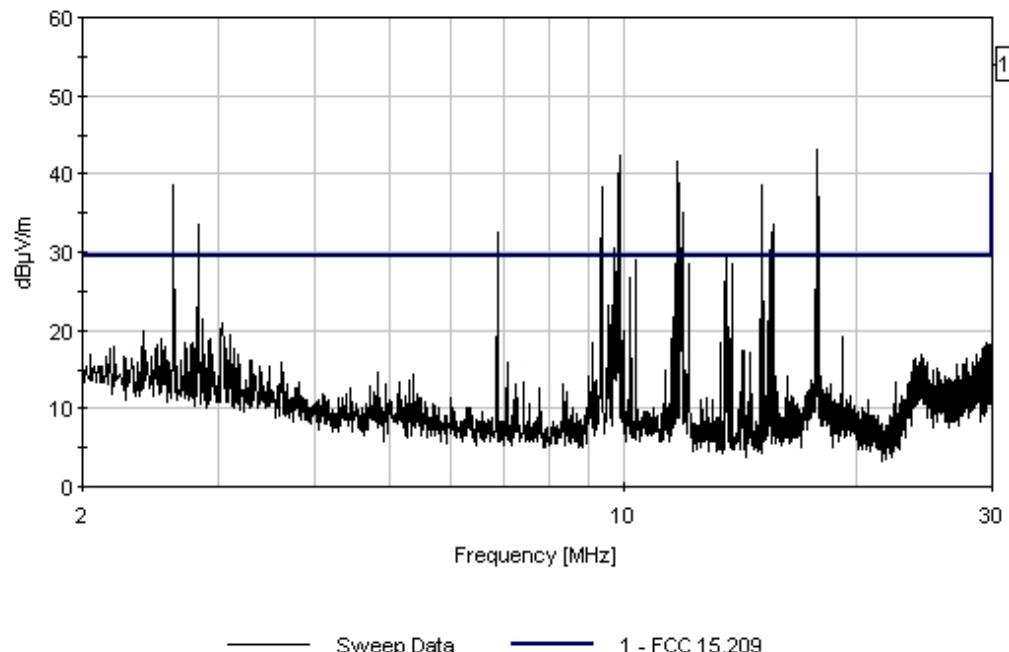
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 7. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	32.2	+0.3	+5.0	+0.3	-19.1	+0.0	18.7	29.5	-10.8	Perpe
2	29.530M	31.9	+0.3	+5.2	+0.3	-19.1	+0.0	18.6	29.5	-10.9	Perpe
3	28.600M	30.0	+0.3	+5.5	+0.3	-19.1	+0.0	17.0	29.5	-12.5	Perpe
4	23.900M	28.2	+0.2	+7.1	+0.3	-19.1	+0.0	16.7	29.5	-12.8	Perpe
5	27.500M	28.9	+0.3	+5.9	+0.3	-19.1	+0.0	16.3	29.5	-13.2	Perpe
6	25.630M	26.3	+0.2	+6.6	+0.3	-19.1	+0.0	14.3	29.5	-15.2	Perpe
7	23.300M	22.8	+0.2	+7.3	+0.3	-19.1	+0.0	11.5	29.5	-18.0	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 14:57:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 87 Perpendicular
Underground Site 1 Position 7. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 2:58:05 PM
 Equipment: **BPL MV Gateway** Sequence#: 88
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

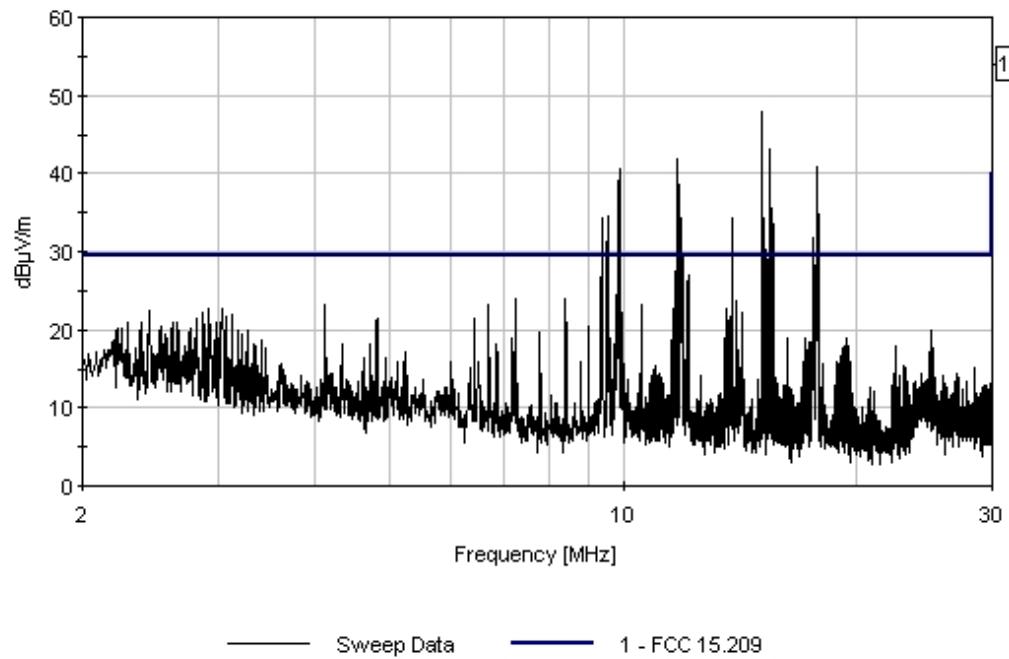
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 8. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	25.043M	30.0	+0.2	+6.9	+0.3	-19.1	+0.0	18.3	29.5	-11.2	Paral
2	22.540M	29.0	+0.2	+7.5	+0.3	-19.1	+0.0	17.9	29.5	-11.6	Paral
3	19.555M	28.2	+0.2	+8.1	+0.3	-19.1	+0.0	17.7	29.5	-11.8	Paral
4	28.113M	27.1	+0.3	+5.7	+0.3	-19.1	+0.0	14.3	29.5	-15.2	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 2:58:05 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 88 Parallel
Underground Site 1 Position 8. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:01:39
 Equipment: **BPL MV Gateway** Sequence#: 89
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

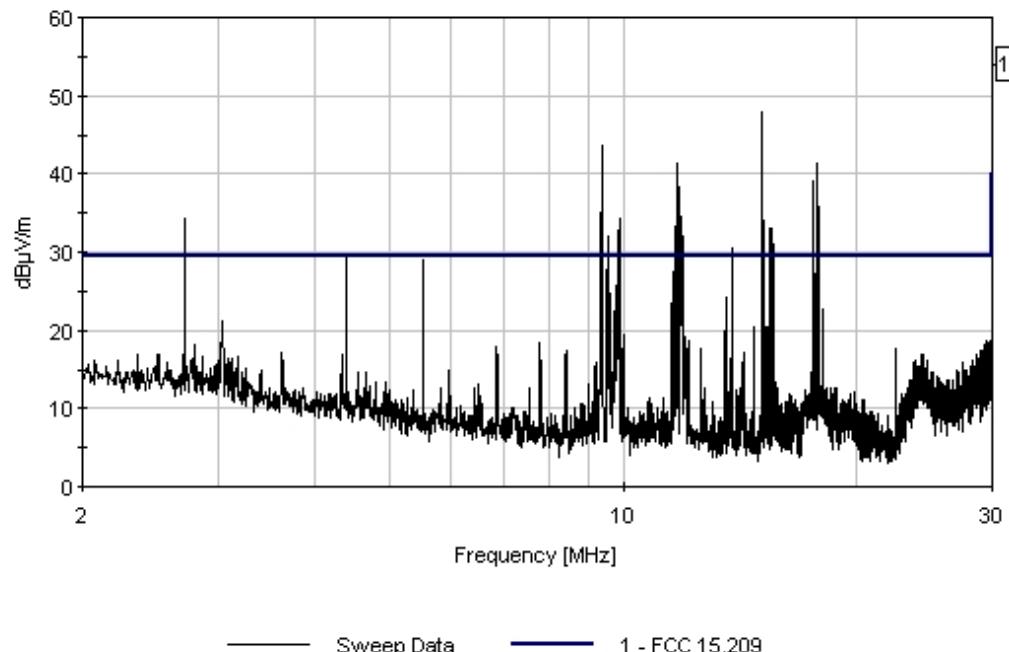
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 8. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	30.6	+0.3	+5.1	+0.3	-19.1	+0.0	17.2	29.5	-12.3	Perpe
2	24.380M	27.7	+0.2	+7.0	+0.3	-19.1	+0.0	16.1	29.5	-13.4	Perpe
3	27.830M	26.1	+0.3	+5.8	+0.3	-19.1	+0.0	13.4	29.5	-16.1	Perpe
4	25.480M	24.8	+0.2	+6.7	+0.3	-19.1	+0.0	12.9	29.5	-16.6	Perpe
5	23.600M	24.2	+0.2	+7.2	+0.3	-19.1	+0.0	12.8	29.5	-16.7	Perpe
6	26.900M	25.2	+0.2	+6.1	+0.3	-19.1	+0.0	12.7	29.5	-16.8	Perpe
7	28.930M	25.6	+0.3	+5.4	+0.3	-19.1	+0.0	12.5	29.5	-17.0	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 15:01:39 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 89 Perpendicular
Underground Site 1 Position 8. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 3:06:09 PM
 Equipment: **BPL MV Gateway** Sequence#: 90
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

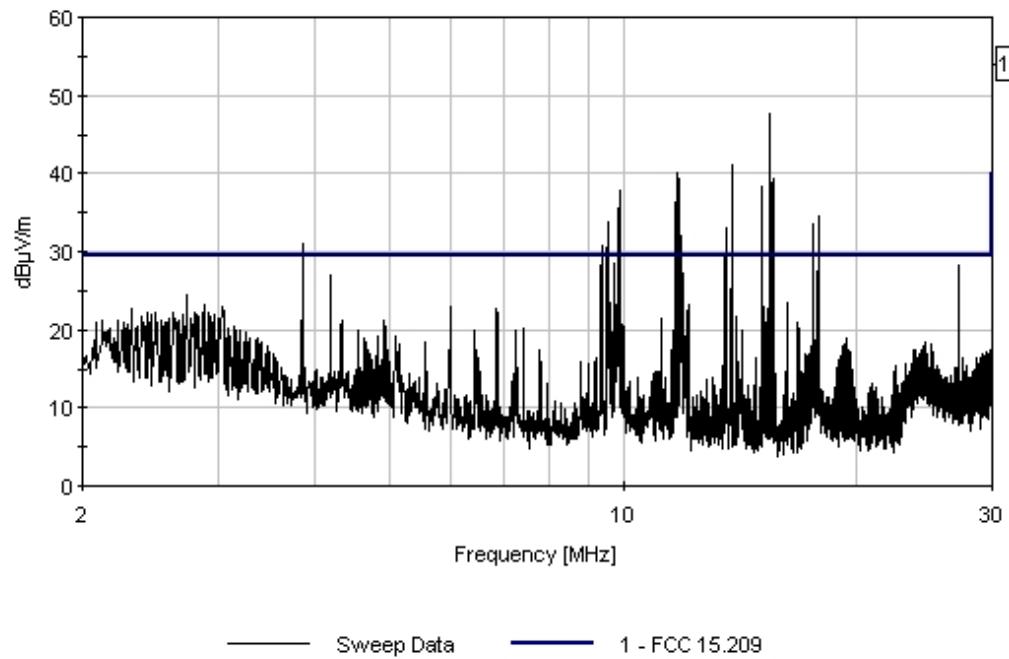
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 9. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	19.445M	29.4	+0.2	+8.1	+0.3	-19.1	+0.0	18.9	29.5	-10.6	Paral
2	24.550M	29.9	+0.2	+7.0	+0.3	-19.1	+0.0	18.3	29.5	-11.2	Paral
3	25.053M	29.9	+0.2	+6.9	+0.3	-19.1	+0.0	18.2	29.5	-11.3	Paral
4	28.389M	29.6	+0.3	+5.6	+0.3	-19.1	+0.0	16.7	29.5	-12.8	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 3:06:09 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 90 Parallel
Underground Site 1 Position 3. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:09:32
 Equipment: **BPL MV Gateway** Sequence#: 91
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

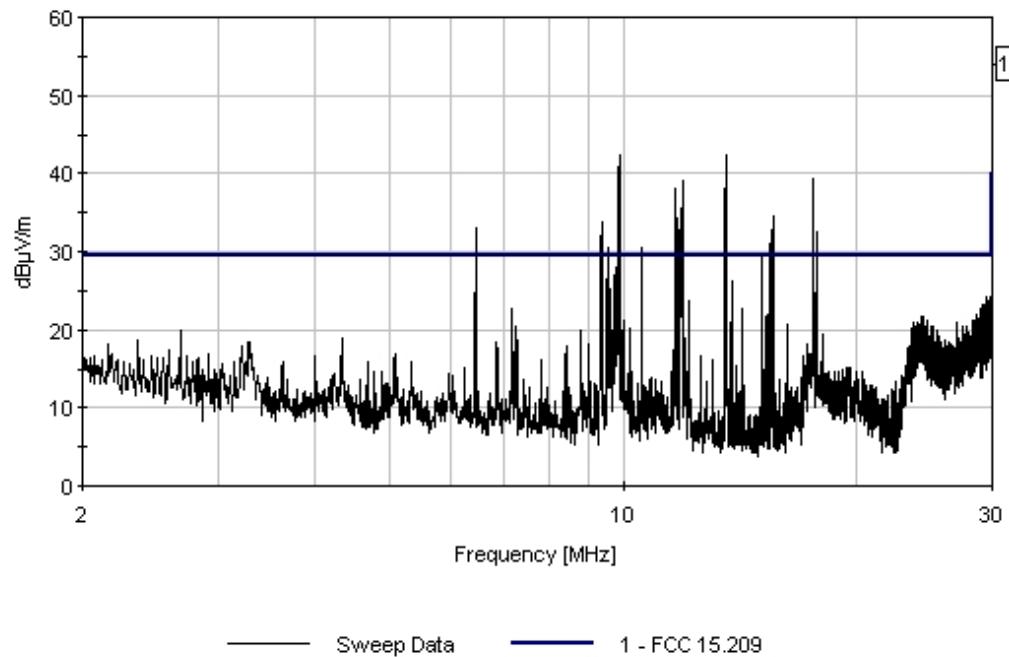
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 9. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	37.7	+0.3	+5.0	+0.3	-19.1	+0.0	24.2	29.5	-5.3	Perpe
2	24.700M	33.5	+0.2	+7.0	+0.3	-19.1	+0.0	21.9	29.5	-7.6	Perpe
3	28.900M	34.6	+0.3	+5.4	+0.3	-19.1	+0.0	21.5	29.5	-8.0	Perpe
4	27.830M	33.9	+0.3	+5.8	+0.3	-19.1	+0.0	21.2	29.5	-8.3	Perpe
5	23.750M	32.5	+0.2	+7.2	+0.3	-19.1	+0.0	21.1	29.5	-8.4	Perpe
6	25.180M	32.4	+0.2	+6.8	+0.3	-19.1	+0.0	20.6	29.5	-8.9	Perpe
7	26.430M	31.1	+0.2	+6.3	+0.3	-19.1	+0.0	18.8	29.5	-10.7	Perpe
8	23.280M	28.8	+0.2	+7.3	+0.3	-19.1	+0.0	17.5	29.5	-12.0	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 15:09:32 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 91 Perpendicular
Underground Site 1 Position 3. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:13:22
 Equipment: **BPL MV Gateway** Sequence#: 92
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

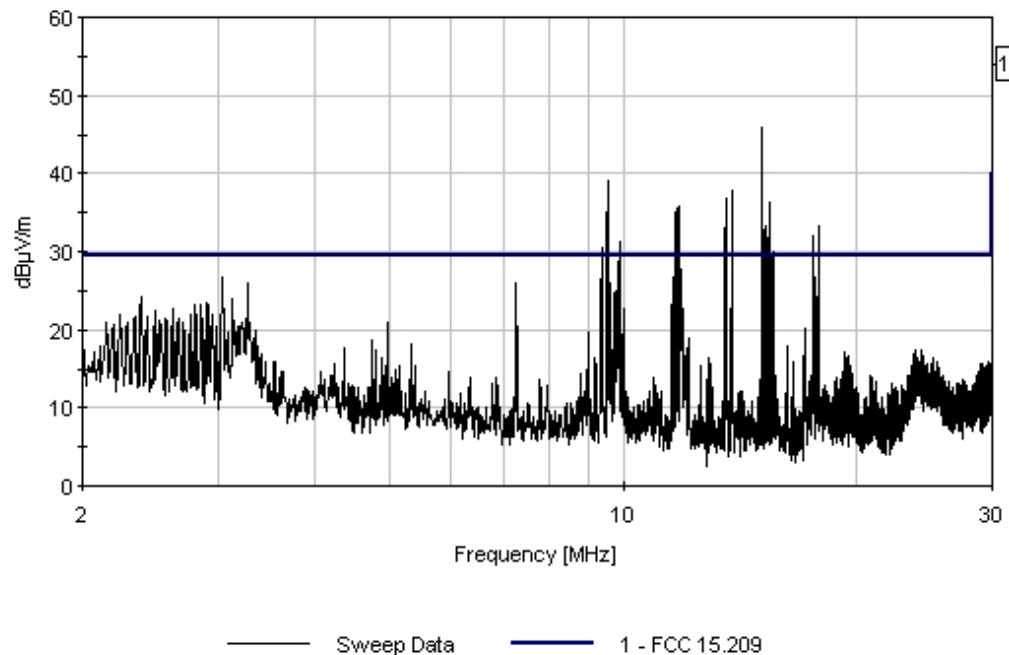
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 10. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

Measurement Data: Reading listed by margin. Test Distance: 10 Meters											
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	23.930M	28.4	+0.2	+7.1	+0.3	-19.1	+0.0	16.9	29.5	-12.6	Paral
2	29.980M	29.8	+0.3	+5.0	+0.3	-19.1	+0.0	16.3	29.5	-13.2	Paral
3	24.700M	27.8	+0.2	+7.0	+0.3	-19.1	+0.0	16.2	29.5	-13.3	Paral
4	25.480M	28.0	+0.2	+6.7	+0.3	-19.1	+0.0	16.1	29.5	-13.4	Paral
5	28.900M	28.7	+0.3	+5.4	+0.3	-19.1	+0.0	15.6	29.5	-13.9	Paral
6	27.050M	26.9	+0.2	+6.1	+0.3	-19.1	+0.0	14.4	29.5	-15.1	Paral
7	27.830M	26.1	+0.3	+5.8	+0.3	-19.1	+0.0	13.4	29.5	-16.1	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 15:13:22 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 92 Parallel
Underground Site 1 Position 10. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:15:16
 Equipment: **BPL MV Gateway** Sequence#: 93
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

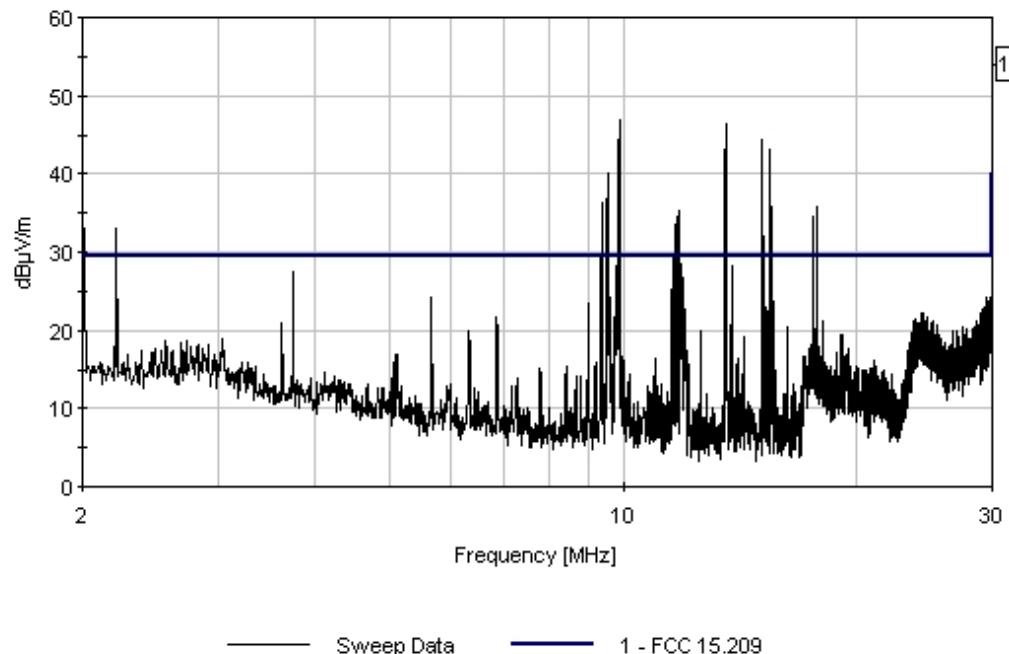
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 10. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	37.8	+0.3	+5.0	+0.3	-19.1	+0.0	24.3	29.5	-5.2	Perpe
2	29.200M	36.1	+0.3	+5.3	+0.3	-19.1	+0.0	22.9	29.5	-6.6	Perpe
3	24.230M	33.8	+0.2	+7.1	+0.3	-19.1	+0.0	22.3	29.5	-7.2	Perpe
4	27.500M	33.1	+0.3	+5.9	+0.3	-19.1	+0.0	20.5	29.5	-9.0	Perpe
5	25.000M	32.0	+0.2	+6.9	+0.3	-19.1	+0.0	20.3	29.5	-9.2	Perpe
6	23.600M	30.8	+0.2	+7.2	+0.3	-19.1	+0.0	19.4	29.5	-10.1	Perpe
7	26.100M	30.5	+0.2	+6.5	+0.3	-19.1	+0.0	18.4	29.5	-11.1	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 15:15:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 93 Perpendicular
Underground Site 1 Position 10. Medium Lines only. Notches off.



— Sweep Data — 1 - FCC 15.209

Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:17:21
 Equipment: **BPL MV Gateway** Sequence#: 94
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

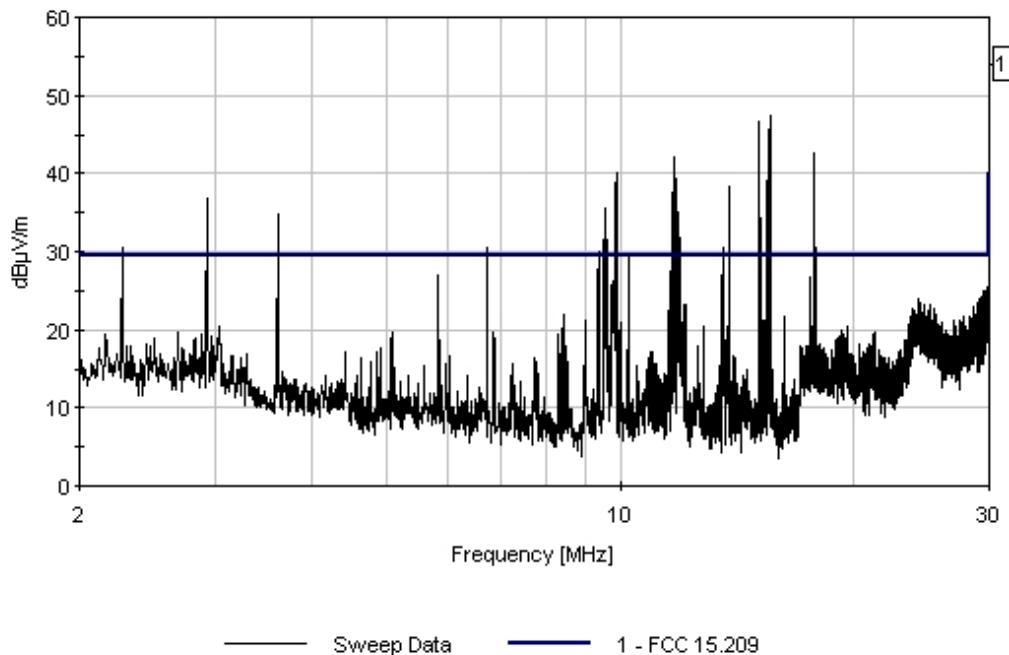
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 11. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	38.8	+0.3	+5.1	+0.3	-19.1	+0.0	25.4	29.5	-4.1	Perpe
2	24.380M	35.3	+0.2	+7.0	+0.3	-19.1	+0.0	23.7	29.5	-5.8	Perpe
3	28.900M	36.5	+0.3	+5.4	+0.3	-19.1	+0.0	23.4	29.5	-6.2	Perpe
4	25.480M	34.2	+0.2	+6.7	+0.3	-19.1	+0.0	22.3	29.5	-7.2	Perpe
5	23.750M	33.0	+0.2	+7.2	+0.3	-19.1	+0.0	21.6	29.5	-7.9	Perpe
6	27.830M	34.3	+0.3	+5.8	+0.3	-19.1	+0.0	21.6	29.5	-7.9	Perpe
7	26.430M	32.5	+0.2	+6.3	+0.3	-19.1	+0.0	20.2	29.5	-9.3	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 15:17:21 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 94 Perpendicular
Underground Site 1 Position 11. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:19:21
 Equipment: **BPL MV Gateway** Sequence#: 95
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

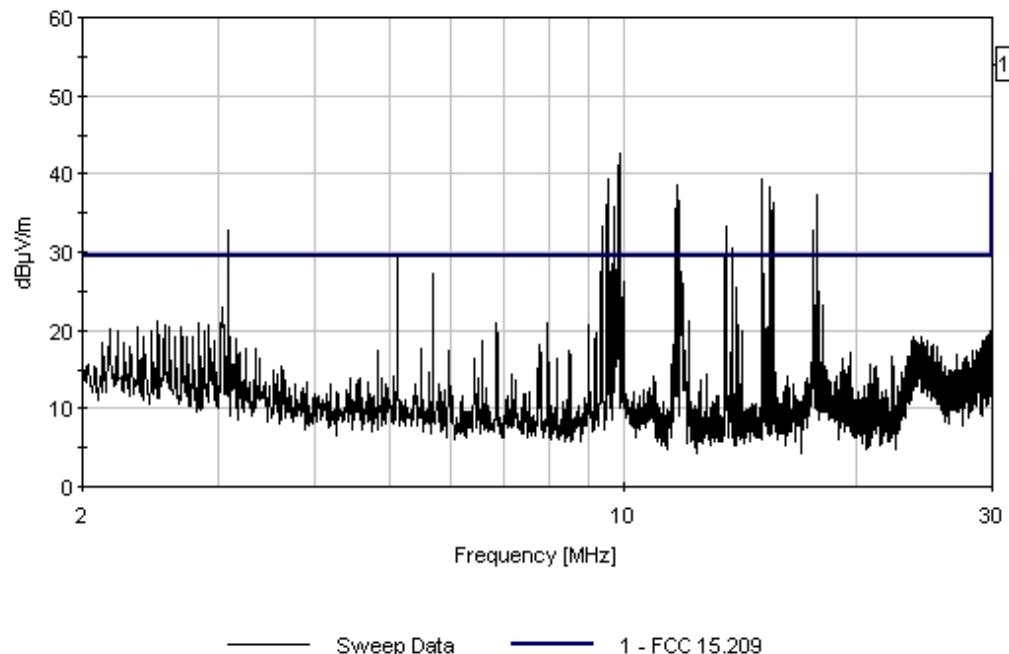
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 11. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar
1	29.980M	34.8	+0.3	+5.0	+0.3	-19.1	+0.0	21.3	29.5	-8.2	Paral
2	24.230M	30.9	+0.2	+7.1	+0.3	-19.1	+0.0	19.4	29.5	-10.1	Paral
3	29.200M	32.2	+0.3	+5.3	+0.3	-19.1	+0.0	19.0	29.5	-10.5	Paral
4	28.600M	31.7	+0.3	+5.5	+0.3	-19.1	+0.0	18.7	29.5	-10.8	Paral
5	23.600M	30.1	+0.2	+7.2	+0.3	-19.1	+0.0	18.7	29.5	-10.9	Paral
6	25.480M	29.8	+0.2	+6.7	+0.3	-19.1	+0.0	17.9	29.5	-11.6	Paral
7	27.500M	29.7	+0.3	+5.9	+0.3	-19.1	+0.0	17.1	29.5	-12.4	Paral
8	26.430M	27.6	+0.2	+6.3	+0.3	-19.1	+0.0	15.3	29.5	-14.2	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 15:19:21 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 95 Parallel
Underground Site 1 Position 11. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:43:24
 Equipment: **BPL MV Gateway** Sequence#: 96
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

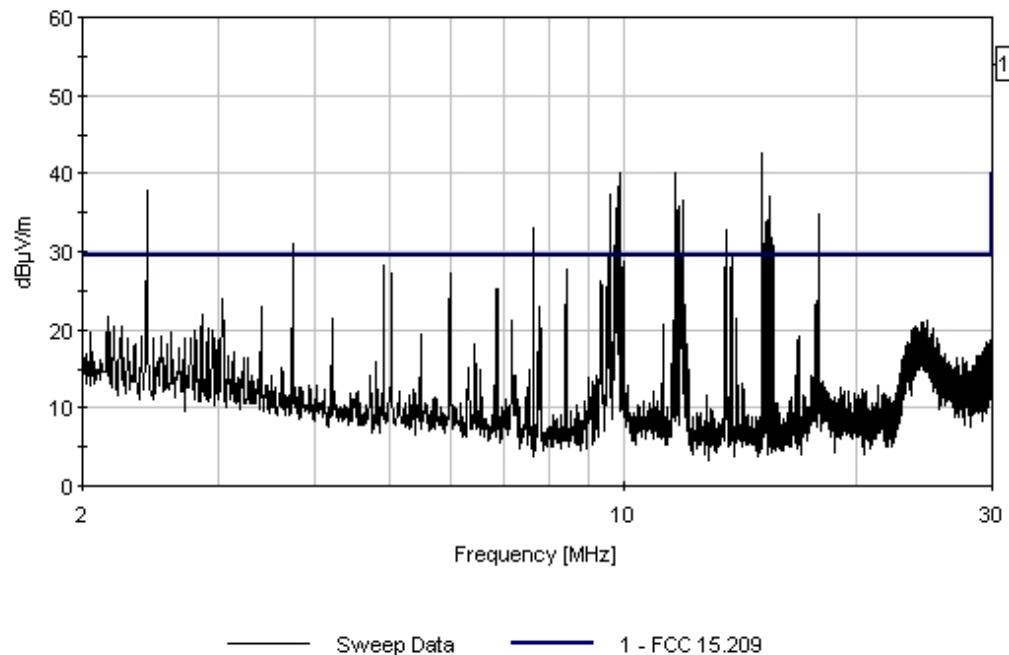
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 12. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.400M	33.1	+0.2	+7.0	+0.3	-19.1	+0.0	21.5	29.5	-8.0	Paral
2	29.980M	33.8	+0.3	+5.0	+0.3	-19.1	+0.0	20.3	29.5	-9.2	Paral
3	23.600M	31.0	+0.2	+7.2	+0.3	-19.1	+0.0	19.6	29.5	-9.9	Paral
4	25.500M	29.6	+0.2	+6.7	+0.3	-19.1	+0.0	17.7	29.5	-11.8	Paral
5	28.900M	30.1	+0.3	+5.4	+0.3	-19.1	+0.0	17.0	29.5	-12.5	Paral
6	27.830M	29.4	+0.3	+5.8	+0.3	-19.1	+0.0	16.7	29.5	-12.8	Paral
7	26.430M	28.5	+0.2	+6.3	+0.3	-19.1	+0.0	16.2	29.5	-13.3	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 15:43:24 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 96 Parallel
Underground Site 1 Position 12. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 15:45:19
 Equipment: **BPL MV Gateway** Sequence#: 97
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

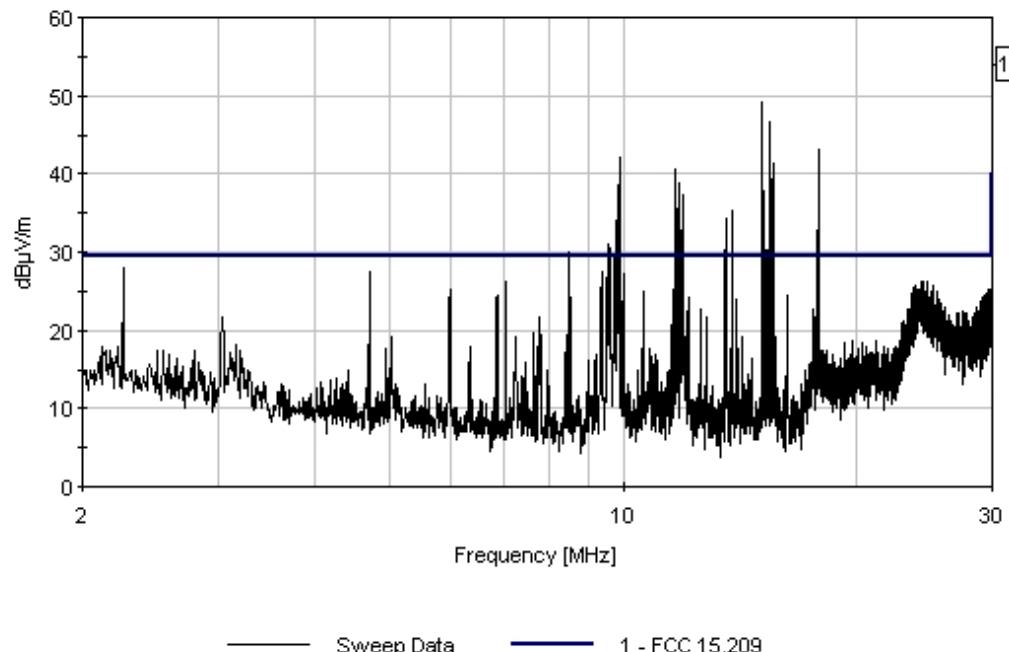
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 12. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.400M	38.3	+0.2	+7.0	+0.3	-19.1	+0.0	26.7	29.5	-2.8	Perpe
2	25.180M	38.0	+0.2	+6.8	+0.3	-19.1	+0.0	26.2	29.5	-3.3	Perpe
3	29.830M	38.7	+0.3	+5.1	+0.3	-19.1	+0.0	25.3	29.5	-4.2	Perpe
4	23.600M	36.1	+0.2	+7.2	+0.3	-19.1	+0.0	24.7	29.5	-4.8	Perpe
5	28.600M	36.8	+0.3	+5.5	+0.3	-19.1	+0.0	23.8	29.5	-5.7	Perpe
6	25.800M	35.6	+0.2	+6.6	+0.3	-19.1	+0.0	23.6	29.5	-5.9	Perpe
7	27.530M	35.8	+0.3	+5.9	+0.3	-19.1	+0.0	23.2	29.5	-6.3	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 15:45:19 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 97 Perpendicular
Underground Site 1 Position 12. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 14:06:13
 Equipment: **BPL MV Gateway** Sequence#: 76
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

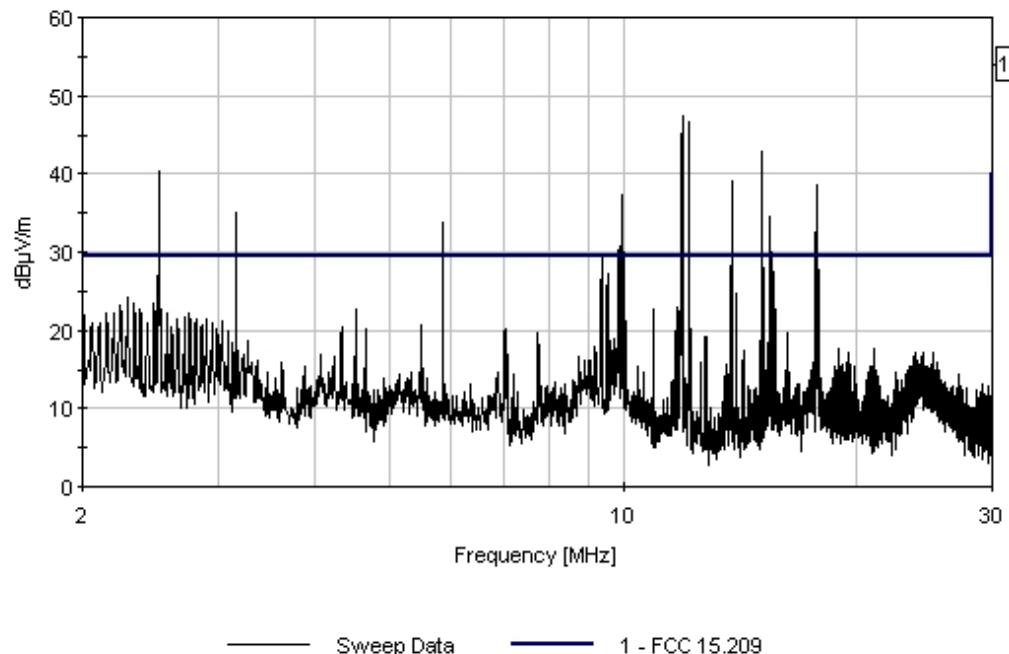
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 13. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.750M	27.8	+0.2	+7.2	+0.3	-19.1	+0.0	16.4	29.5	-13.1	Paral
2	25.480M	28.1	+0.2	+6.7	+0.3	-19.1	+0.0	16.2	29.5	-13.3	Paral
3	24.700M	27.3	+0.2	+7.0	+0.3	-19.1	+0.0	15.7	29.5	-13.9	Paral
4	27.050M	25.9	+0.2	+6.1	+0.3	-19.1	+0.0	13.4	29.5	-16.1	Paral
5	26.430M	25.4	+0.2	+6.3	+0.3	-19.1	+0.0	13.1	29.5	-16.4	Paral
6	29.850M	26.4	+0.3	+5.1	+0.3	-19.1	+0.0	13.0	29.5	-16.5	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 14:06:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 76 Parallel
Underground Site 1 Position 13. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 14:08:45
 Equipment: **BPL MV Gateway** Sequence#: 77
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

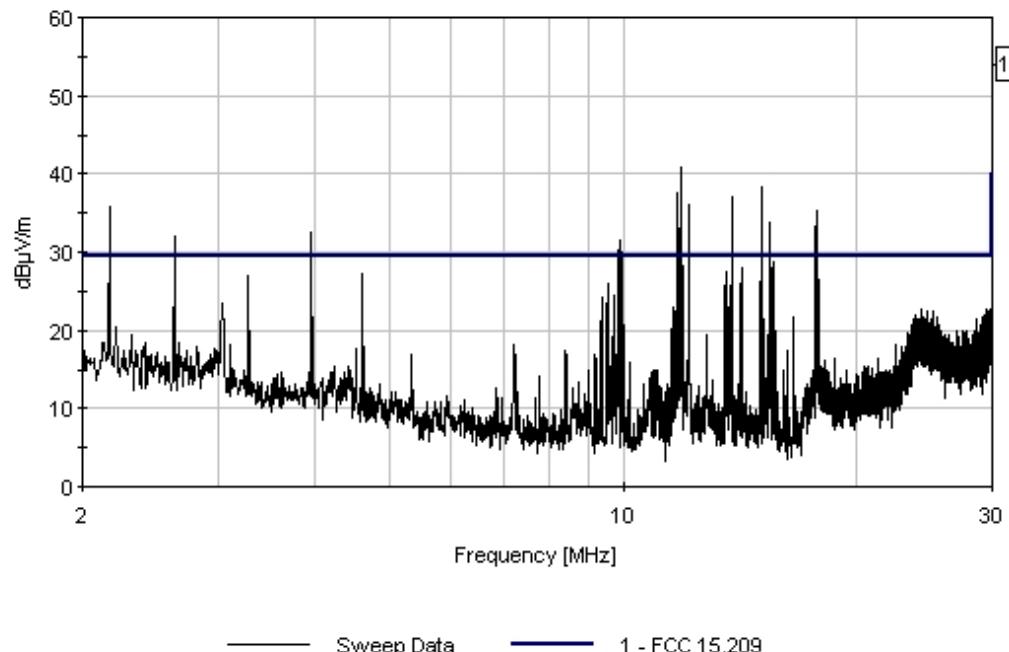
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 13. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	36.8	+0.3	+5.0	+0.3	-19.1	+0.0	23.3	29.5	-6.2	Perpe
2	24.700M	34.4	+0.2	+7.0	+0.3	-19.1	+0.0	22.8	29.5	-6.7	Perpe
3	23.750M	32.5	+0.2	+7.2	+0.3	-19.1	+0.0	21.1	29.5	-8.4	Perpe
4	29.050M	34.2	+0.3	+5.3	+0.3	-19.1	+0.0	21.0	29.5	-8.5	Perpe
5	28.300M	32.1	+0.3	+5.6	+0.3	-19.1	+0.0	19.2	29.5	-10.3	Perpe
6	26.400M	31.1	+0.2	+6.3	+0.3	-19.1	+0.0	18.8	29.5	-10.7	Perpe
7	27.130M	31.2	+0.2	+6.0	+0.3	-19.1	+0.0	18.6	29.5	-10.9	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 14:08:45 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 77 Perpendicular
Underground Site 1 Position 13. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 13:20:55
 Equipment: **BPL MV Gateway** Sequence#: 72
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

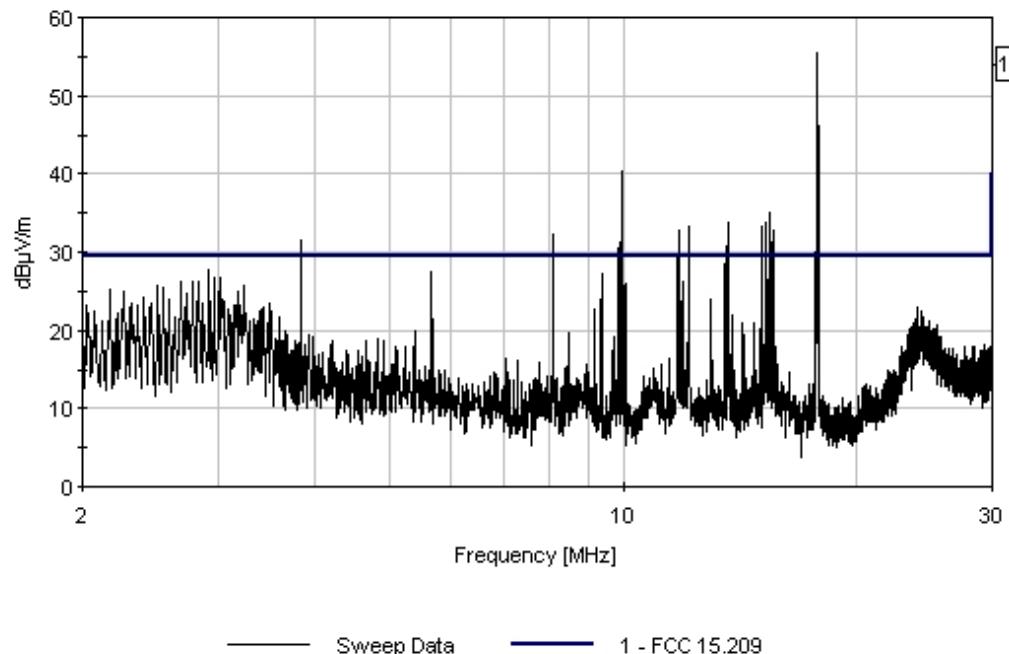
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 14. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.000M	32.1	+0.2	+7.1	+0.3	-19.1	+0.0	20.6	29.5	-8.9	Perpe
2	25.180M	31.7	+0.2	+6.8	+0.3	-19.1	+0.0	19.9	29.5	-9.6	Perpe
3	23.450M	30.7	+0.2	+7.2	+0.3	-19.1	+0.0	19.3	29.5	-10.2	Perpe
4	27.680M	30.1	+0.3	+5.8	+0.3	-19.1	+0.0	17.4	29.5	-12.1	Perpe
5	29.850M	30.4	+0.3	+5.1	+0.3	-19.1	+0.0	17.0	29.5	-12.5	Perpe
6	28.730M	29.6	+0.3	+5.5	+0.3	-19.1	+0.0	16.6	29.5	-13.0	Perpe
7	26.180M	26.9	+0.2	+6.4	+0.3	-19.1	+0.0	14.7	29.5	-14.8	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 13:20:55 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 72 Perpendicular
Underground Site 1 Position 14. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 1:21:06 PM
 Equipment: **BPL MV Gateway** Sequence#: 73
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

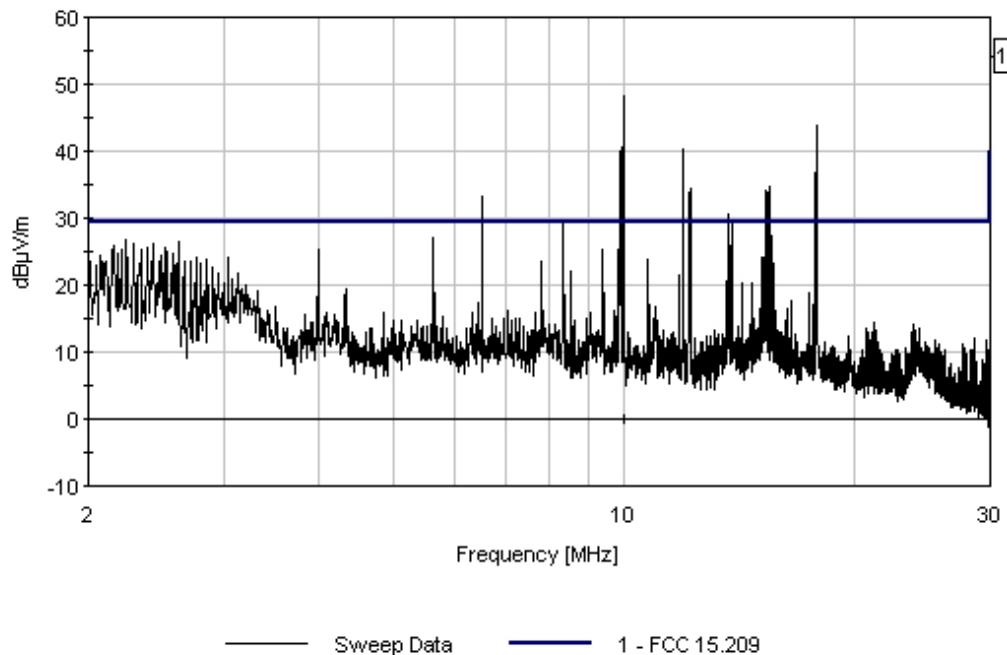
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 14. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	20.661M	22.9	+0.2	+7.9	+0.3	-19.1	+0.0	12.2	29.5	-17.3	Paral
2	29.684M	25.3	+0.3	+5.1	+0.3	-19.1	+0.0	11.9	29.5	-17.6	Paral
3	27.545M	23.7	+0.3	+5.9	+0.3	-19.1	+0.0	11.1	29.5	-18.4	Paral
4	23.716M	22.3	+0.2	+7.2	+0.3	-19.1	+0.0	10.9	29.5	-18.6	Paral
5	22.550M	21.4	+0.2	+7.5	+0.3	-19.1	+0.0	10.3	29.5	-19.2	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 1:21:06 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 73 Parallel
Underground Site 1 Position 14. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 1:10:46 PM
 Equipment: **BPL MV Gateway** Sequence#: 70
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

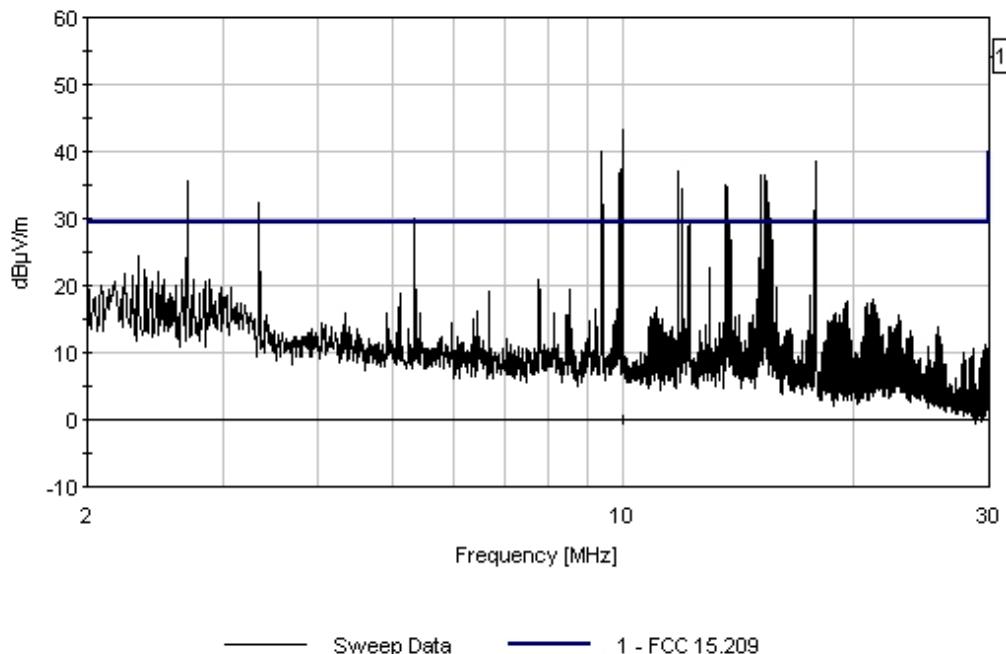
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 15. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals ambient levels

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	20.802M	28.1	+0.2	+7.9	+0.3	-19.1	+0.0	17.4	29.5	-12.1	Paral
2	21.274M	27.8	+0.2	+7.8	+0.3	-19.1	+0.0	17.0	29.5	-12.5	Paral
3	18.651M	25.2	+0.2	+8.2	+0.3	-19.1	+0.0	14.8	29.5	-14.7	Paral
4	23.686M	24.5	+0.2	+7.2	+0.3	-19.1	+0.0	13.1	29.5	-16.4	Paral
5	25.756M	25.1	+0.2	+6.6	+0.3	-19.1	+0.0	13.1	29.5	-16.4	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 1:10:46 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 70 Parallel
Underground Site 1 Position 15. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 13:16:30
 Equipment: **BPL MV Gateway** Sequence#: 71
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

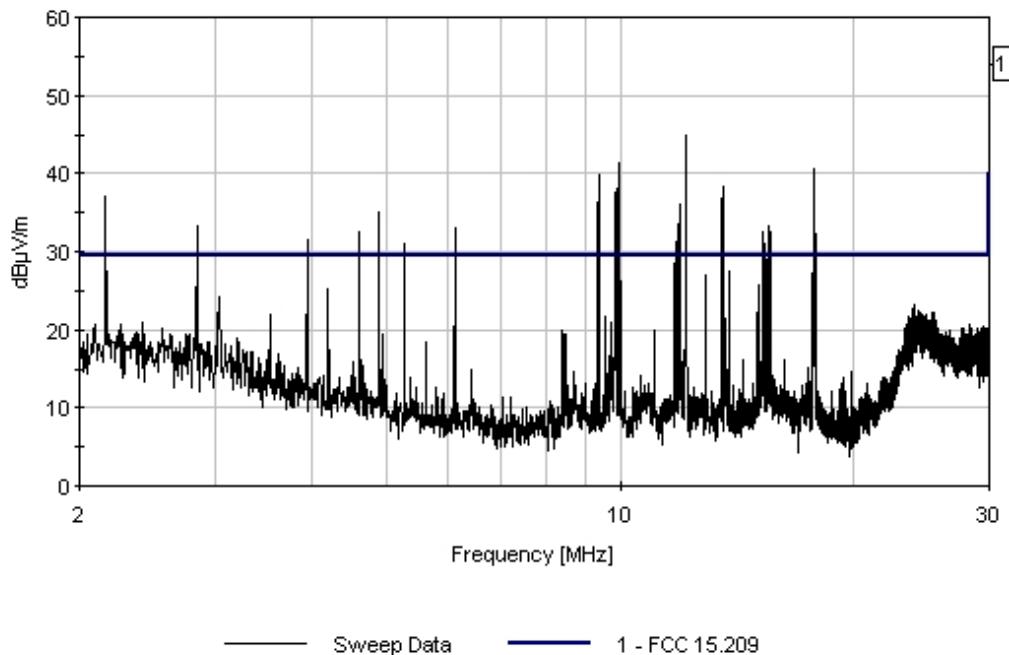
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 15. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.080M	35.0	+0.2	+7.1	+0.3	-19.1	+0.0	23.5	29.5	-6.0	Perpe
2	25.480M	33.6	+0.2	+6.7	+0.3	-19.1	+0.0	21.7	29.5	-7.9	Perpe
3	29.980M	34.4	+0.3	+5.0	+0.3	-19.1	+0.0	20.9	29.5	-8.6	Perpe
4	29.650M	33.5	+0.3	+5.1	+0.3	-19.1	+0.0	20.1	29.5	-9.4	Perpe
5	26.730M	32.1	+0.2	+6.2	+0.3	-19.1	+0.0	19.7	29.5	-9.8	Perpe
6	28.280M	32.6	+0.3	+5.6	+0.3	-19.1	+0.0	19.7	29.5	-9.8	Perpe
7	23.450M	28.5	+0.2	+7.2	+0.3	-19.1	+0.0	17.1	29.5	-12.4	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 13:16:30 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 71 Perpendicular
Underground Site 1 Position 15. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 13:03:39
 Equipment: **BPL MV Gateway** Sequence#: 68
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

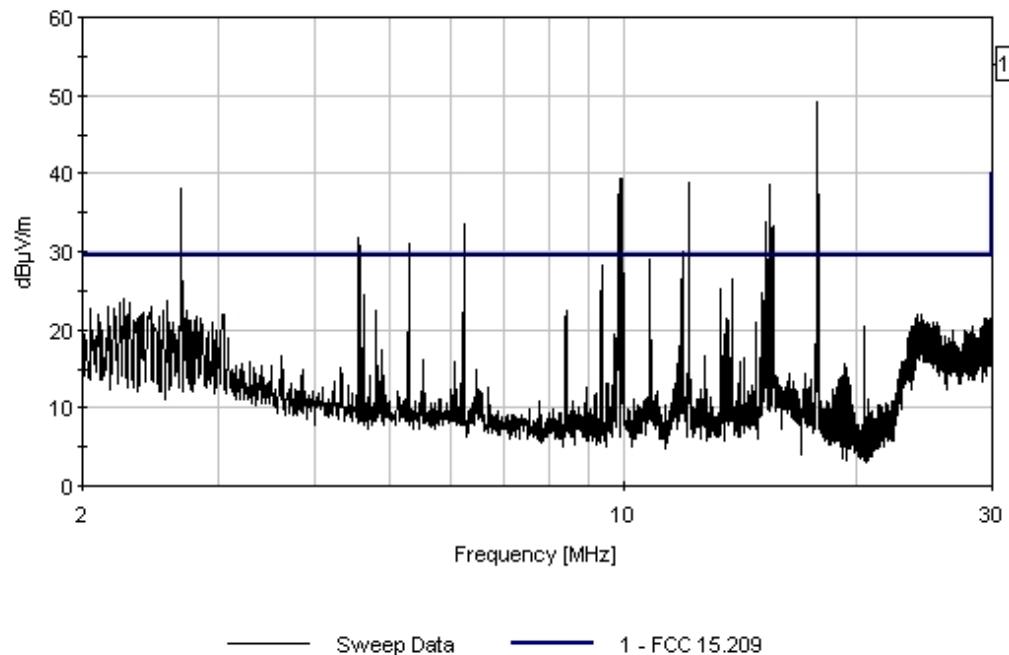
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 16. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. Only signals seen from the unit are from 22.5-30MHz. Rest are ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.900M	32.8	+0.2	+7.1	+0.3	-19.1	+0.0	21.3	29.5	-8.2	Perpe
2	29.950M	34.5	+0.3	+5.0	+0.3	-19.1	+0.0	21.0	29.5	-8.5	Perpe
3	24.650M	32.0	+0.2	+7.0	+0.3	-19.1	+0.0	20.4	29.5	-9.1	Perpe
4	25.480M	32.2	+0.2	+6.7	+0.3	-19.1	+0.0	20.3	29.5	-9.2	Perpe
5	28.880M	32.8	+0.3	+5.4	+0.3	-19.1	+0.0	19.7	29.5	-9.8	Perpe
6	27.950M	32.1	+0.3	+5.7	+0.3	-19.1	+0.0	19.3	29.5	-10.2	Perpe
7	26.600M	31.0	+0.2	+6.3	+0.3	-19.1	+0.0	18.7	29.5	-10.8	Perpe

Underground Test Site #1 Date: 3/13/2006 Time: 13:03:39 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 68 Perpendicular
Underground Site 1 Position 16. Medium Lines only. Notches off.



Test Location: Underground Test Site #1 •Grayson Lakes Section 9, Transformer #4 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/13/2006
 Test Type: **Radiated Scan** Time: 1:08:57 PM
 Equipment: **BPL MV Gateway** Sequence#: 69
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG2

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG2
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

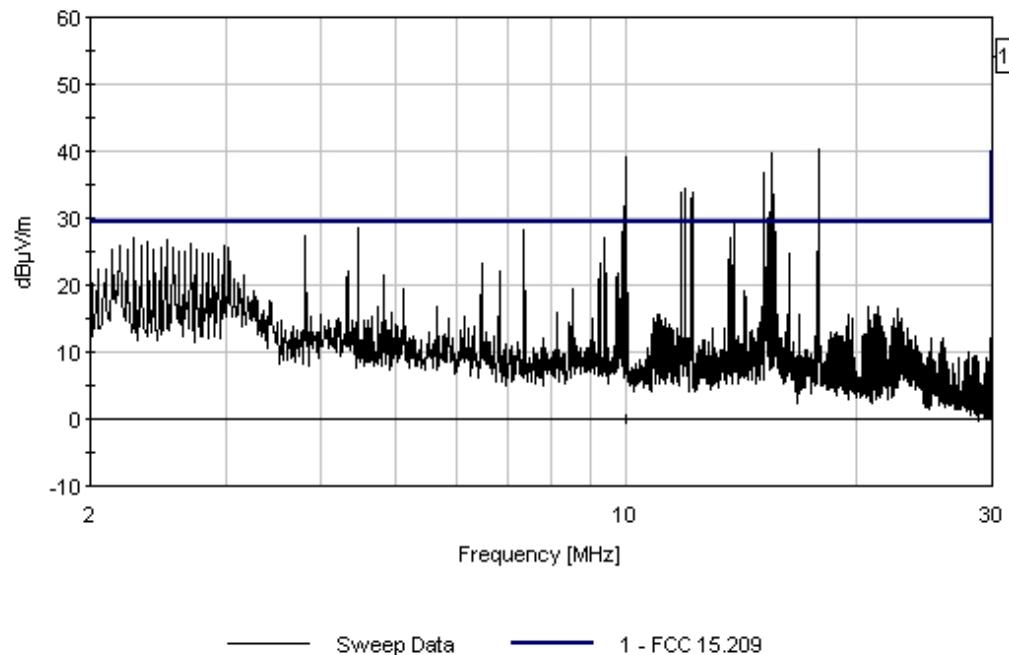
Formal Underground Test Site #1: At Grayson Lakes Section 9, Transformer #4 in Katy, TX. Testing using the Magnetic Loop Antenna. Test distance of antenna to transformer is 10 meters. Test Position 16. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. All signals ambient levels.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Mag Loop - AN 00432- 9kHz-30M
T3=Cable 2410	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.550M	27.6	+0.2	+7.5	+0.3	-19.1	+0.0	16.5	29.5	-13.0	Paral
2	22.892M	26.2	+0.2	+7.4	+0.3	-19.1	+0.0	15.0	29.5	-14.5	Paral
3	19.746M	25.4	+0.2	+8.1	+0.3	-19.1	+0.0	14.9	29.5	-14.6	Paral
4	21.475M	25.6	+0.2	+7.7	+0.3	-19.1	+0.0	14.7	29.5	-14.8	Paral

Underground Test Site #1 Date: 3/13/2006 Time: 1:08:57 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 69 Parallel
Underground Site 1 Position 16. Medium Lines only. Notches off.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:23:53
 Equipment: **BPL MV Gateway** Sequence#: 126
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

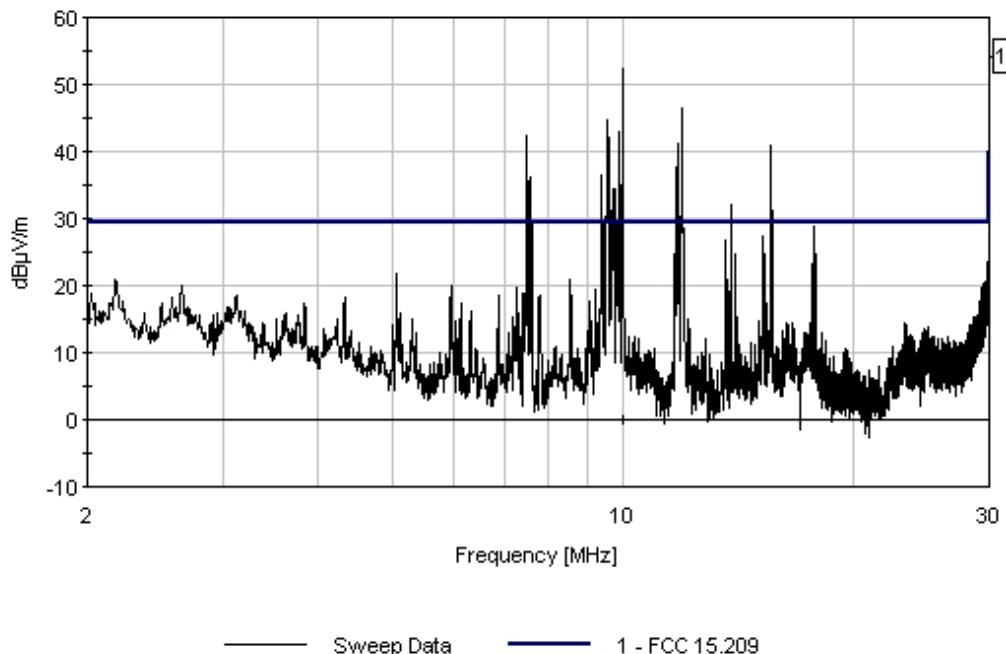
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 1. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	36.5	+0.3	+0.3	+5.1	-19.1	+0.0	23.1	29.5	-6.4	Perpe
2	29.841M QP	35.1	+0.3	+0.3	+5.1	-19.1	+0.0	21.7	29.5	-7.8	Perpe
^	29.841M	37.1	+0.3	+0.3	+5.1	-19.1	+0.0	23.7	29.5	-5.8	Perpe
4	29.050M	30.5	+0.3	+0.3	+5.3	-19.1	+0.0	17.3	29.5	-12.2	Perpe
5	23.450M	25.2	+0.2	+0.3	+7.2	-19.1	+0.0	13.8	29.5	-15.7	Perpe
6	24.850M	25.0	+0.2	+0.3	+6.9	-19.1	+0.0	13.3	29.5	-16.3	Perpe
7	27.830M	23.9	+0.3	+0.3	+5.8	-19.1	+0.0	11.2	29.5	-18.3	Perpe
8	25.700M	22.0	+0.2	+0.3	+6.6	-19.1	+0.0	10.0	29.5	-19.5	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:23:53 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 126 Perpendicular
Underground Site 2 Position 1. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:14:31
 Equipment: **BPL MV Gateway** Sequence#: 124
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

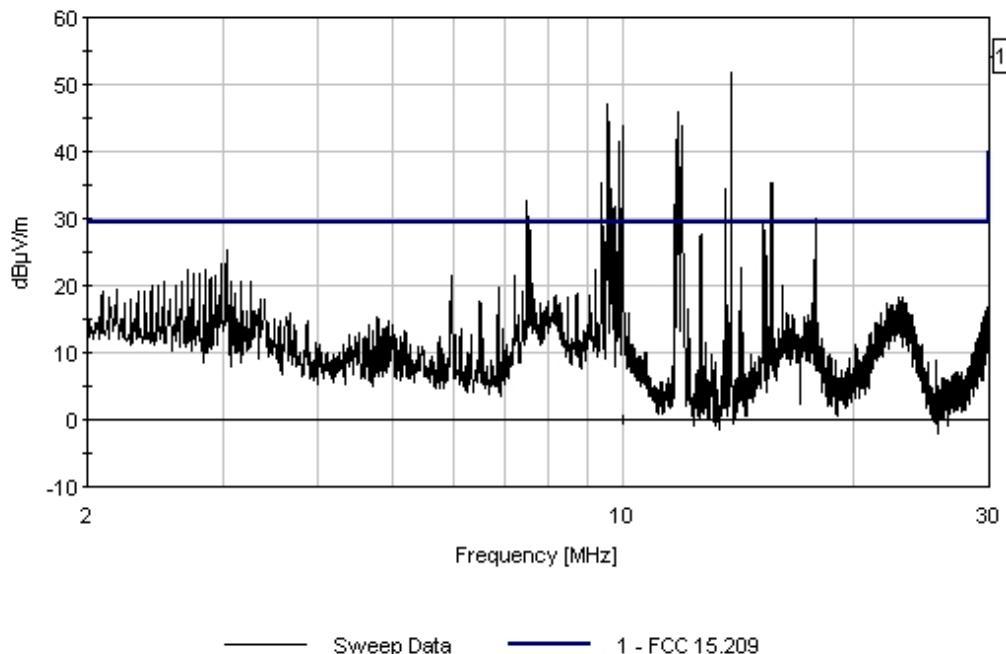
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 1. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.681M	29.8	+0.3	+0.3	+5.1	-19.1	+0.0	16.4	29.5	-13.1	Paral
2	22.750M	26.4	+0.2	+0.3	+7.4	-19.1	+0.0	15.2	29.5	-14.3	Paral
3	16.565M	25.3	+0.2	+0.2	+8.4	-19.1	+0.0	15.0	29.5	-14.6	Paral
4	23.450M	25.4	+0.2	+0.3	+7.2	-19.1	+0.0	14.0	29.5	-15.5	Paral
5	29.230M	27.1	+0.3	+0.3	+5.3	-19.1	+0.0	13.9	29.5	-15.6	Paral
6	17.195M	22.3	+0.2	+0.2	+8.4	-19.1	+0.0	12.0	29.5	-17.5	Paral
7	8.202M	19.5	+0.1	+0.2	+9.1	-19.1	+0.0	9.8	29.5	-19.7	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:14:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 124 Parallel
Underground Site 2 Position 1. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:26:20
 Equipment: **BPL MV Gateway** Sequence#: 128
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

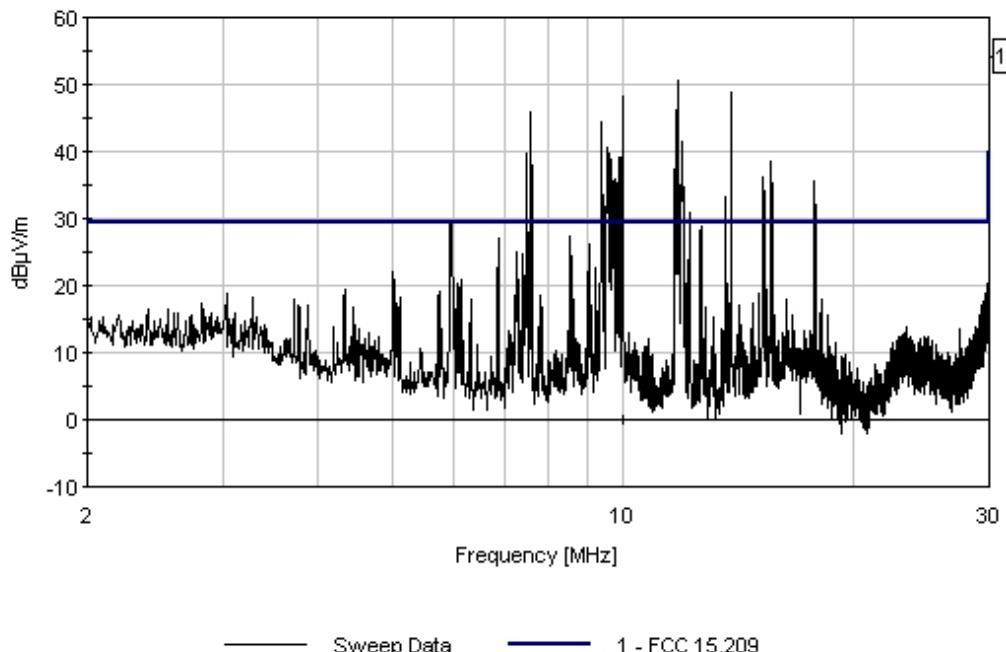
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 2. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	33.1	+0.3	+0.3	+5.1	-19.1	+0.0	19.7	29.5	-9.8	Perpe
2	29.080M	27.9	+0.3	+0.3	+5.3	-19.1	+0.0	14.7	29.5	-14.8	Perpe
3	23.430M	24.1	+0.2	+0.3	+7.2	-19.1	+0.0	12.7	29.5	-16.8	Perpe
4	25.030M	24.2	+0.2	+0.3	+6.9	-19.1	+0.0	12.5	29.5	-17.0	Perpe
5	26.100M	23.2	+0.2	+0.3	+6.5	-19.1	+0.0	11.1	29.5	-18.4	Perpe
6	27.980M	23.4	+0.3	+0.3	+5.7	-19.1	+0.0	10.6	29.5	-18.9	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:26:20 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 128 Perpendicular
Underground Site 2 Position 2. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:28:40
 Equipment: **BPL MV Gateway** Sequence#: 129
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

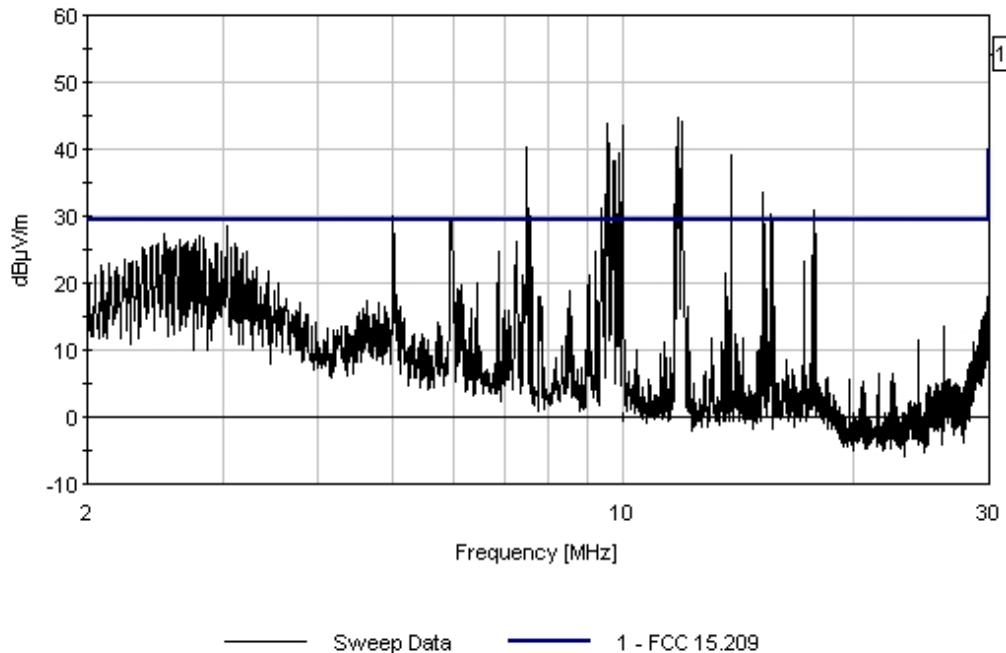
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 2. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	30.000M	31.2	+0.3	+0.3	+5.0	-19.1	+0.0	17.7	29.5	-11.8	Paral
2	29.550M	27.0	+0.3	+0.3	+5.2	-19.1	+0.0	13.7	29.5	-15.8	Paral
3	29.230M	26.1	+0.3	+0.3	+5.3	-19.1	+0.0	12.9	29.5	-16.6	Paral
4	28.780M	24.2	+0.3	+0.3	+5.4	-19.1	+0.0	11.1	29.5	-18.4	Paral
5	28.300M	22.0	+0.3	+0.3	+5.6	-19.1	+0.0	9.1	29.5	-20.4	Paral
6	27.230M	20.6	+0.2	+0.3	+6.0	-19.1	+0.0	8.0	29.5	-21.5	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:28:40 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 129 Parallel
Underground Site 2 Position 2. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:30:37
 Equipment: **BPL MV Gateway** Sequence#: 130
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

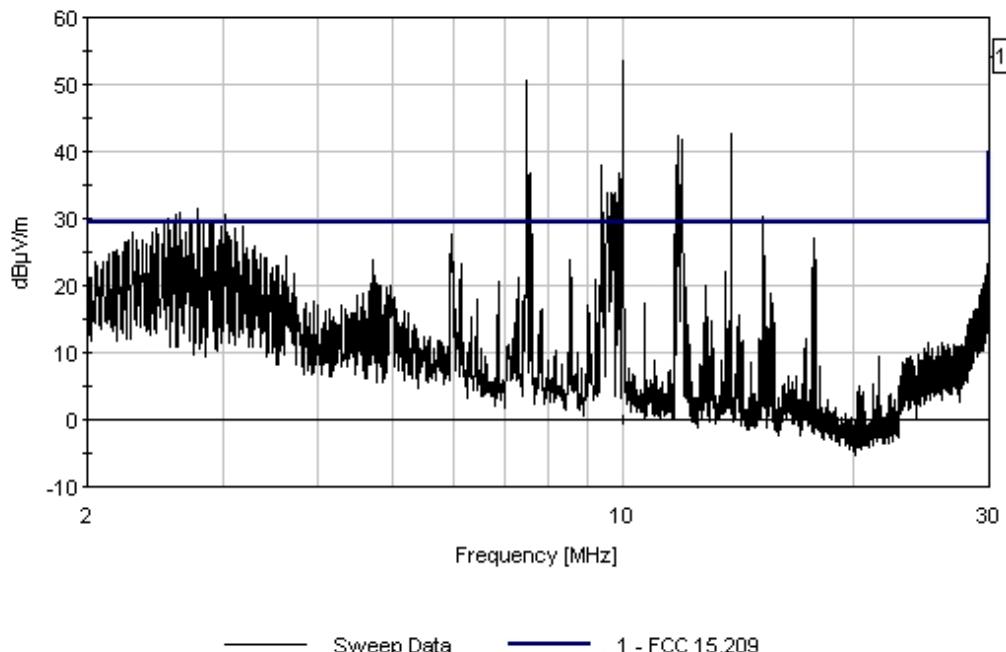
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 3. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	36.9	+0.3	+0.3	+5.0	-19.1	+0.0	23.4	29.5	-6.1	Paral
2	29.080M	31.5	+0.3	+0.3	+5.3	-19.1	+0.0	18.3	29.5	-11.2	Paral
3	28.300M	28.8	+0.3	+0.3	+5.6	-19.1	+0.0	15.9	29.5	-13.7	Paral
4	25.800M	23.8	+0.2	+0.3	+6.6	-19.1	+0.0	11.8	29.5	-17.7	Paral
5	25.030M	23.3	+0.2	+0.3	+6.9	-19.1	+0.0	11.6	29.5	-17.9	Paral
6	27.050M	24.0	+0.2	+0.3	+6.1	-19.1	+0.0	11.5	29.5	-18.0	Paral
7	23.430M	21.3	+0.2	+0.3	+7.2	-19.1	+0.0	9.9	29.5	-19.6	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:30:37 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 130 Parallel
Underground Site 2 Position 3. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:32:36
 Equipment: **BPL MV Gateway** Sequence#: 131
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 3. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

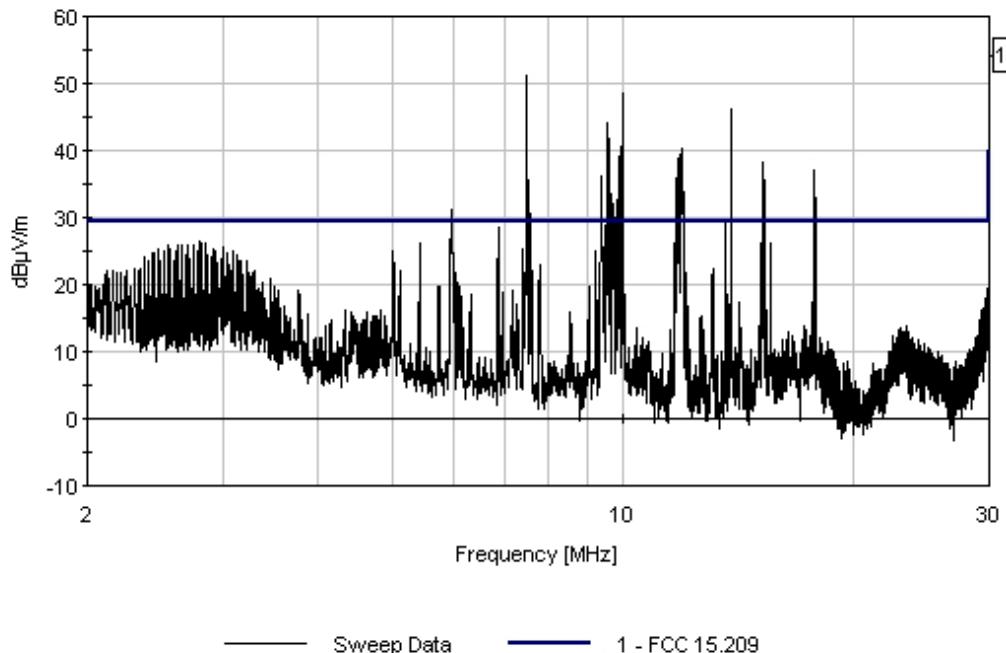
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	33.0	+0.3	+0.3	+5.1	-19.1	+0.0	19.6	29.5	-9.9	Perpe
2	29.050M	27.5	+0.3	+0.3	+5.3	-19.1	+0.0	14.3	29.5	-15.2	Perpe
3	23.280M	25.3	+0.2	+0.3	+7.3	-19.1	+0.0	14.0	29.5	-15.5	Perpe
4	24.080M	25.5	+0.2	+0.3	+7.1	-19.1	+0.0	14.0	29.5	-15.5	Perpe
5	22.800M	25.0	+0.2	+0.3	+7.4	-19.1	+0.0	13.8	29.5	-15.7	Perpe
6	25.030M	23.2	+0.2	+0.3	+6.9	-19.1	+0.0	11.5	29.5	-18.0	Perpe

7	28.300M	23.8	+0.3	+0.3	+5.6	-19.1	+0.0	10.9	29.5	-18.6	Perpe
8	25.800M	22.5	+0.2	+0.3	+6.6	-19.1	+0.0	10.5	29.5	-19.0	Perpe
9	27.180M	17.1	+0.2	+0.3	+6.0	-19.1	+0.0	4.4	29.5	-25.1	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:32:36 Corinex WO#: 84818
 FCC 15.209 Test Distance: 10 Meters Sequence#: 131 Perpendicular
 Underground Site 2 Position 3. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:34:52
 Equipment: **BPL MV Gateway** Sequence#: 132
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

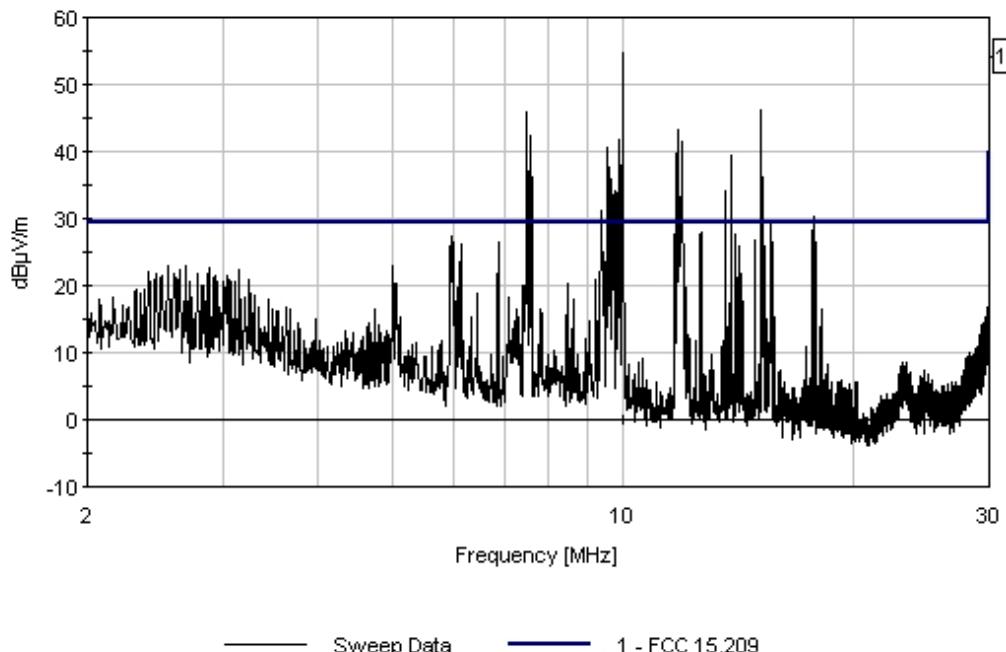
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 4. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	30.000M	31.0	+0.3	+0.3	+5.0	-19.1	+0.0	17.5	29.5	-12.0	Paral
2	29.380M	27.0	+0.3	+0.3	+5.2	-19.1	+0.0	13.7	29.5	-15.8	Paral
3	28.600M	22.4	+0.3	+0.3	+5.5	-19.1	+0.0	9.4	29.5	-20.1	Paral
4	23.280M	20.3	+0.2	+0.3	+7.3	-19.1	+0.0	9.0	29.5	-20.5	Paral
5	24.700M	20.6	+0.2	+0.3	+7.0	-19.1	+0.0	9.0	29.5	-20.5	Paral
6	28.000M	20.2	+0.3	+0.3	+5.7	-19.1	+0.0	7.4	29.5	-22.1	Paral
7	26.950M	19.1	+0.2	+0.3	+6.1	-19.1	+0.0	6.6	29.5	-22.9	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:34:52 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 132 Parallel
Underground Site 2 Position 4. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:37:05
 Equipment: **BPL MV Gateway** Sequence#: 133
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

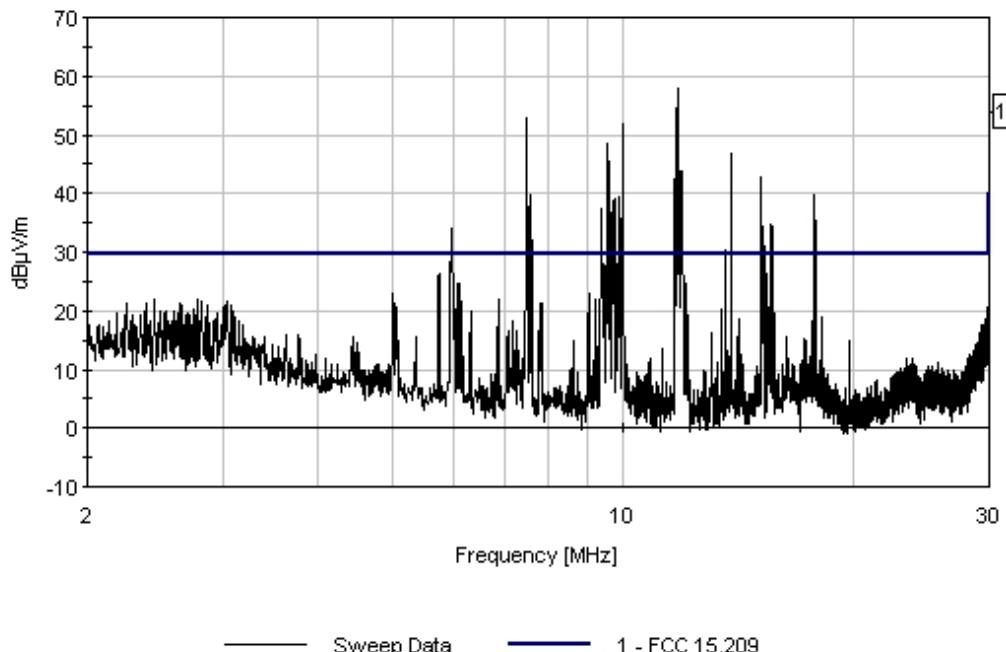
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 4. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	33.4	+0.3	+0.3	+5.1	-19.1	+0.0	20.0	29.5	-9.6	Perpe
2	28.780M	26.3	+0.3	+0.3	+5.4	-19.1	+0.0	13.2	29.5	-16.3	Perpe
3	24.230M	23.6	+0.2	+0.3	+7.1	-19.1	+0.0	12.1	29.5	-17.4	Perpe
4	25.800M	22.9	+0.2	+0.3	+6.6	-19.1	+0.0	10.9	29.5	-18.6	Perpe
5	27.980M	23.6	+0.3	+0.3	+5.7	-19.1	+0.0	10.8	29.5	-18.7	Perpe
6	22.180M	21.8	+0.2	+0.3	+7.5	-19.1	+0.0	10.7	29.5	-18.9	Perpe
7	23.430M	22.0	+0.2	+0.3	+7.2	-19.1	+0.0	10.6	29.5	-18.9	Perpe
8	27.050M	22.8	+0.2	+0.3	+6.1	-19.1	+0.0	10.3	29.5	-19.2	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:37:05 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 133 Perpendicular
Underground Site 2 Position 4. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:41:06
 Equipment: **BPL MV Gateway** Sequence#: 134
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

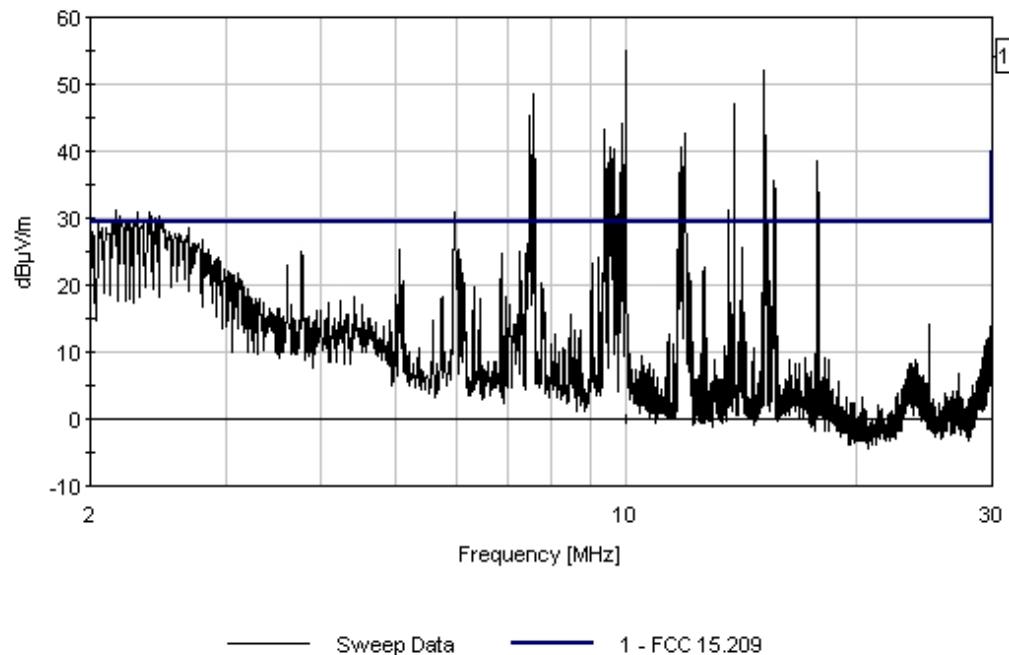
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 5. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	30.000M	27.4	+0.3	+0.3	+5.0	-19.1	+0.0	13.9	29.5	-15.6	Paral
2	29.380M	24.5	+0.3	+0.3	+5.2	-19.1	+0.0	11.2	29.5	-18.3	Paral
3	23.750M	20.2	+0.2	+0.3	+7.2	-19.1	+0.0	8.8	29.5	-20.7	Paral
4	23.280M	19.2	+0.2	+0.3	+7.3	-19.1	+0.0	7.9	29.5	-21.6	Paral
5	24.700M	17.3	+0.2	+0.3	+7.0	-19.1	+0.0	5.7	29.5	-23.8	Paral
6	26.580M	17.4	+0.2	+0.3	+6.3	-19.1	+0.0	5.1	29.5	-24.4	Paral
7	28.580M	15.9	+0.3	+0.3	+5.5	-19.1	+0.0	2.9	29.5	-26.6	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:41:06 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 134 Parallel
Underground Site 2 Position 5. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:43:32
 Equipment: **BPL MV Gateway** Sequence#: 135
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

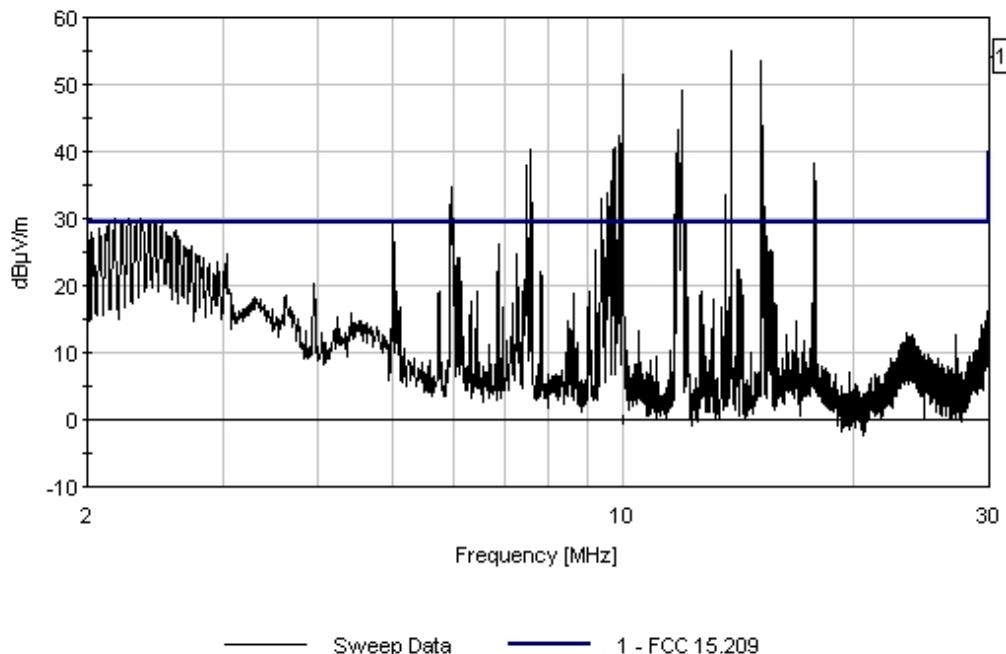
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 5. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.850M	28.7	+0.3	+0.3	+5.1	-19.1	+0.0	15.3	29.5	-14.2	Perpe
2	23.450M	24.8	+0.2	+0.3	+7.2	-19.1	+0.0	13.4	29.5	-16.1	Perpe
3	29.050M	25.0	+0.3	+0.3	+5.3	-19.1	+0.0	11.8	29.5	-17.7	Perpe
4	23.900M	23.3	+0.2	+0.3	+7.1	-19.1	+0.0	11.8	29.5	-17.7	Perpe
5	22.830M	21.3	+0.2	+0.3	+7.4	-19.1	+0.0	10.1	29.5	-19.4	Perpe
6	27.980M	21.8	+0.3	+0.3	+5.7	-19.1	+0.0	9.0	29.5	-20.5	Perpe
7	25.350M	19.8	+0.2	+0.3	+6.8	-19.1	+0.0	8.0	29.5	-21.5	Perpe
8	26.730M	17.3	+0.2	+0.3	+6.2	-19.1	+0.0	4.9	29.5	-24.7	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:43:32 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 135 Perpendicular
Underground Site 2 Position 5. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:45:58
 Equipment: **BPL MV Gateway** Sequence#: 136
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

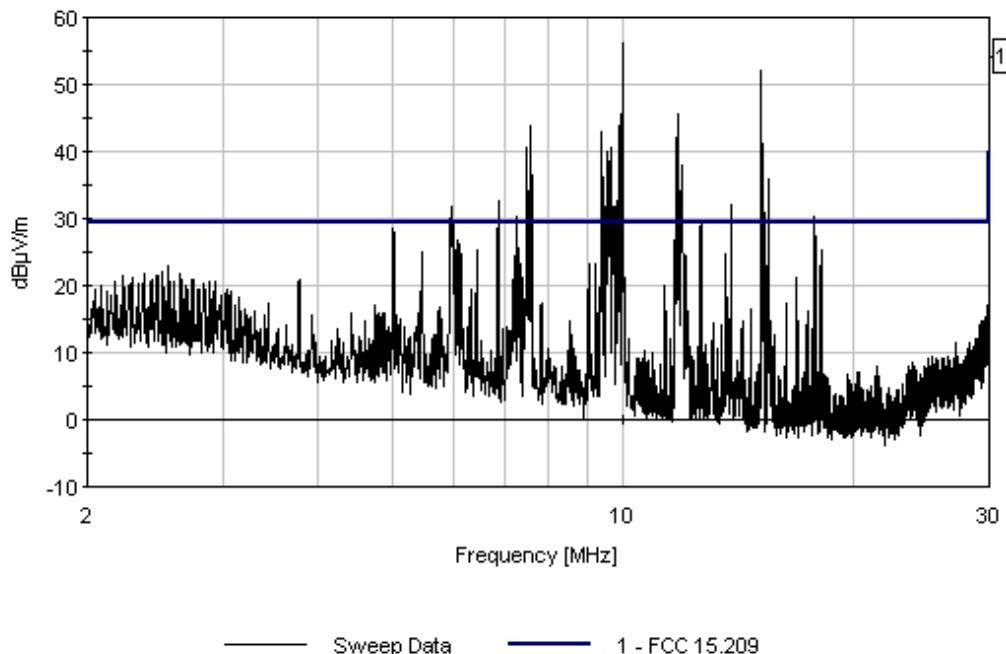
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 6. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	30.000M	30.4	+0.3	+0.3	+5.0	-19.1	+0.0	16.9	29.5	-12.6	Paral
2	29.200M	26.7	+0.3	+0.3	+5.3	-19.1	+0.0	13.5	29.5	-16.1	Paral
3	28.130M	23.6	+0.3	+0.3	+5.7	-19.1	+0.0	10.8	29.5	-18.7	Paral
4	25.800M	22.6	+0.2	+0.3	+6.6	-19.1	+0.0	10.6	29.5	-18.9	Paral
5	25.000M	21.9	+0.2	+0.3	+6.9	-19.1	+0.0	10.2	29.5	-19.4	Paral
6	27.050M	22.4	+0.2	+0.3	+6.1	-19.1	+0.0	9.9	29.5	-19.7	Paral
7	23.500M	17.6	+0.2	+0.3	+7.2	-19.1	+0.0	6.2	29.5	-23.3	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:45:58 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 136 Parallel
Underground Site 2 Position 6. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:48:13
 Equipment: **BPL MV Gateway** Sequence#: 137
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

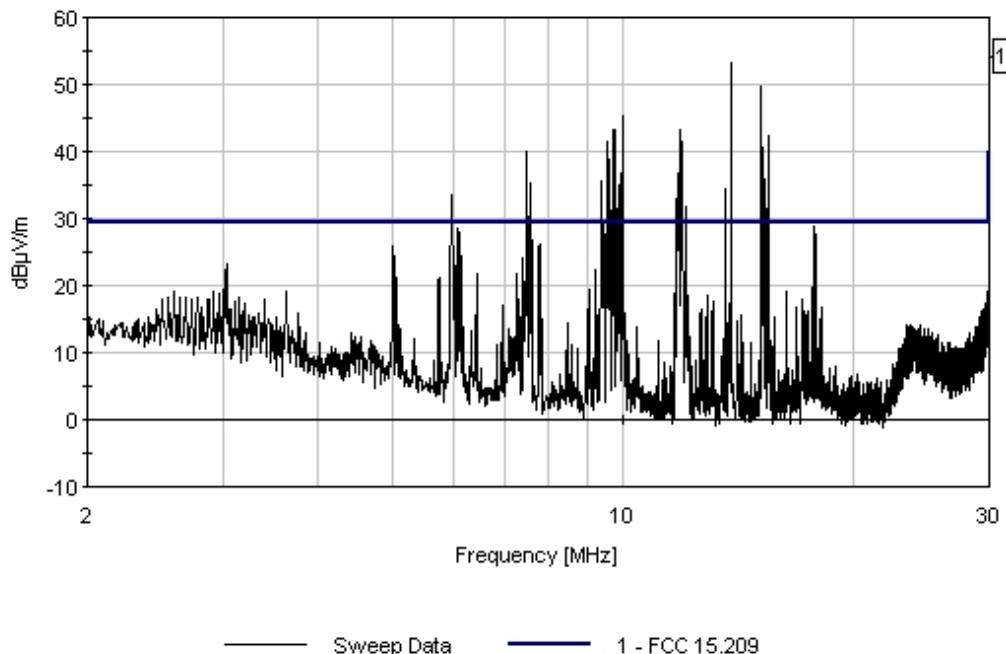
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 6. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	32.2	+0.3	+0.3	+5.1	-19.1	+0.0	18.8	29.5	-10.7	Perpe
2	29.050M	27.9	+0.3	+0.3	+5.3	-19.1	+0.0	14.7	29.5	-14.8	Perpe
3	23.450M	25.4	+0.2	+0.3	+7.2	-19.1	+0.0	14.0	29.5	-15.5	Perpe
4	24.380M	25.6	+0.2	+0.3	+7.0	-19.1	+0.0	14.0	29.5	-15.5	Perpe
5	25.330M	25.2	+0.2	+0.3	+6.8	-19.1	+0.0	13.4	29.5	-16.1	Perpe
6	22.950M	23.6	+0.2	+0.3	+7.4	-19.1	+0.0	12.4	29.5	-17.1	Perpe
7	27.980M	24.5	+0.3	+0.3	+5.7	-19.1	+0.0	11.7	29.5	-17.8	Perpe
8	26.600M	23.0	+0.2	+0.3	+6.3	-19.1	+0.0	10.7	29.5	-18.8	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:48:13 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 137 Perpendicular
Underground Site 2 Position 6. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:52:46
 Equipment: **BPL MV Gateway** Sequence#: 139
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

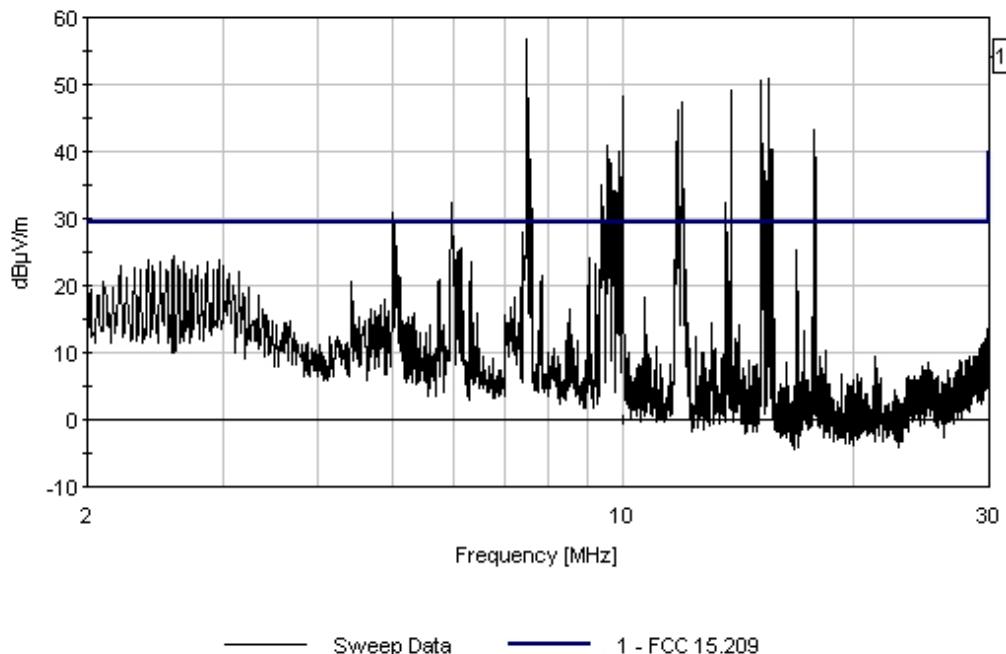
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 7. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.850M	26.4	+0.3	+0.3	+5.1	-19.1	+0.0	13.0	29.5	-16.5	Paral
2	28.450M	22.9	+0.3	+0.3	+5.6	-19.1	+0.0	10.0	29.5	-19.5	Paral
3	29.050M	23.2	+0.3	+0.3	+5.3	-19.1	+0.0	10.0	29.5	-19.6	Paral
4	25.000M	19.7	+0.2	+0.3	+6.9	-19.1	+0.0	8.0	29.5	-21.5	Paral
5	23.930M	18.9	+0.2	+0.3	+7.1	-19.1	+0.0	7.4	29.5	-22.1	Paral
6	26.730M	17.3	+0.2	+0.3	+6.2	-19.1	+0.0	4.9	29.5	-24.6	Paral
7	25.780M	16.7	+0.2	+0.3	+6.6	-19.1	+0.0	4.7	29.5	-24.8	Paral
8	23.180M	15.6	+0.2	+0.3	+7.3	-19.1	+0.0	4.3	29.5	-25.2	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 16:52:46 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 139 Parallel
Underground Site 2 Position 7. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:50:45
 Equipment: **BPL MV Gateway** Sequence#: 138
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

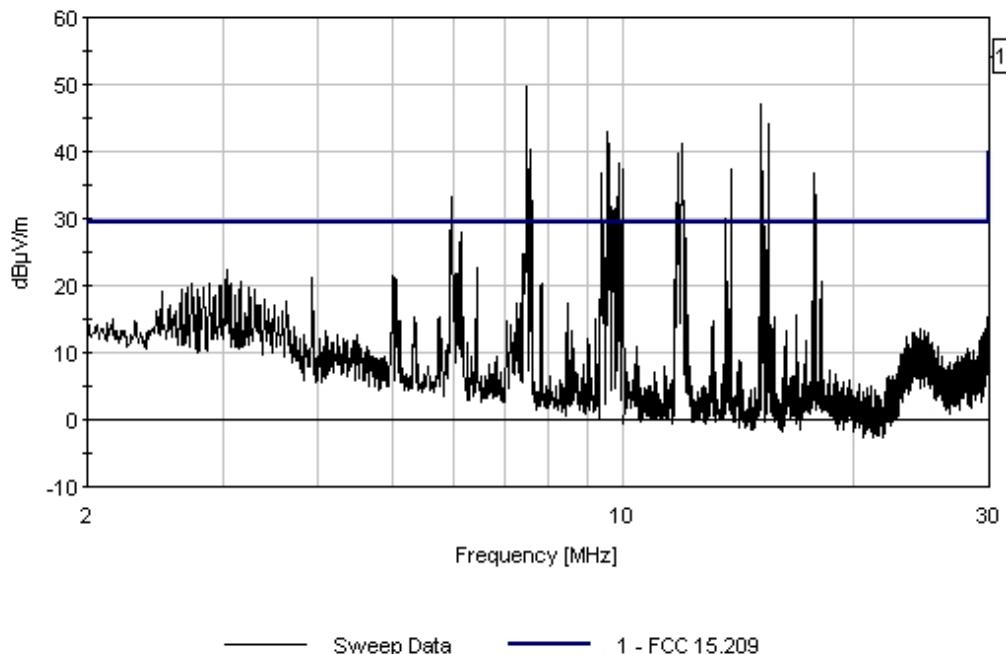
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 7. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	27.9	+0.3	+0.3	+5.0	-19.1	+0.0	14.4	29.5	-15.1	Perpe
2	24.400M	24.8	+0.2	+0.3	+7.0	-19.1	+0.0	13.2	29.5	-16.3	Perpe
3	29.380M	26.3	+0.3	+0.3	+5.2	-19.1	+0.0	13.0	29.5	-16.5	Perpe
4	25.330M	24.2	+0.2	+0.3	+6.8	-19.1	+0.0	12.4	29.5	-17.1	Perpe
5	23.280M	23.3	+0.2	+0.3	+7.3	-19.1	+0.0	12.0	29.5	-17.5	Perpe
6	28.150M	23.8	+0.3	+0.3	+5.7	-19.1	+0.0	11.0	29.5	-18.5	Perpe
7	26.430M	20.3	+0.2	+0.3	+6.3	-19.1	+0.0	8.0	29.5	-21.5	Perpe
8	22.350M	16.7	+0.2	+0.3	+7.5	-19.1	+0.0	5.6	29.5	-23.9	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:50:45 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 138 Perpendicular
Underground Site 2 Position 7. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 16:58:21
 Equipment: **BPL MV Gateway** Sequence#: 140
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

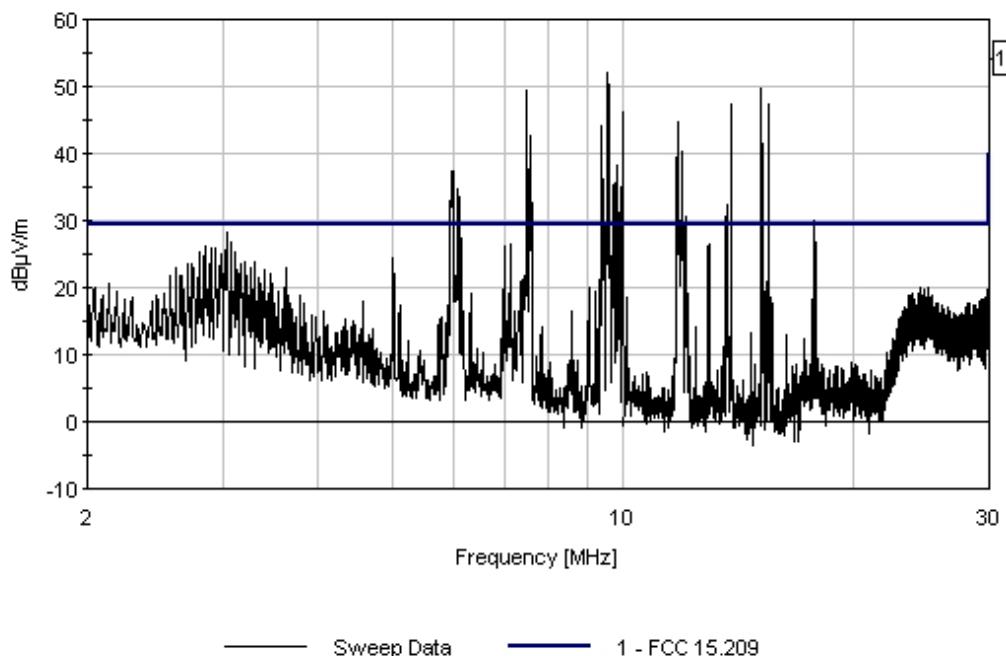
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 8. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin.						Test Distance: 10 Meters			
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	33.1	+0.3	+0.3	+5.1	-19.1	+0.0	19.7	29.5	-9.8	Perpe
2	23.930M	31.1	+0.2	+0.3	+7.1	-19.1	+0.0	19.6	29.5	-9.9	Perpe
3	24.850M	30.9	+0.2	+0.3	+6.9	-19.1	+0.0	19.2	29.5	-10.3	Perpe
4	23.450M	30.5	+0.2	+0.3	+7.2	-19.1	+0.0	19.1	29.5	-10.4	Perpe
5	25.800M	30.8	+0.2	+0.3	+6.6	-19.1	+0.0	18.8	29.5	-10.7	Perpe
6	29.080M	31.4	+0.3	+0.3	+5.3	-19.1	+0.0	18.2	29.5	-11.3	Perpe
7	28.280M	30.1	+0.3	+0.3	+5.6	-19.1	+0.0	17.2	29.5	-12.4	Perpe
8	27.050M	28.9	+0.2	+0.3	+6.1	-19.1	+0.0	16.4	29.5	-13.1	Perpe
9	22.830M	26.5	+0.2	+0.3	+7.4	-19.1	+0.0	15.3	29.5	-14.2	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 16:58:21 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 140 Perpendicular
Underground Site 2 Position 8. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 17:00:23
 Equipment: **BPL MV Gateway** Sequence#: 141
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

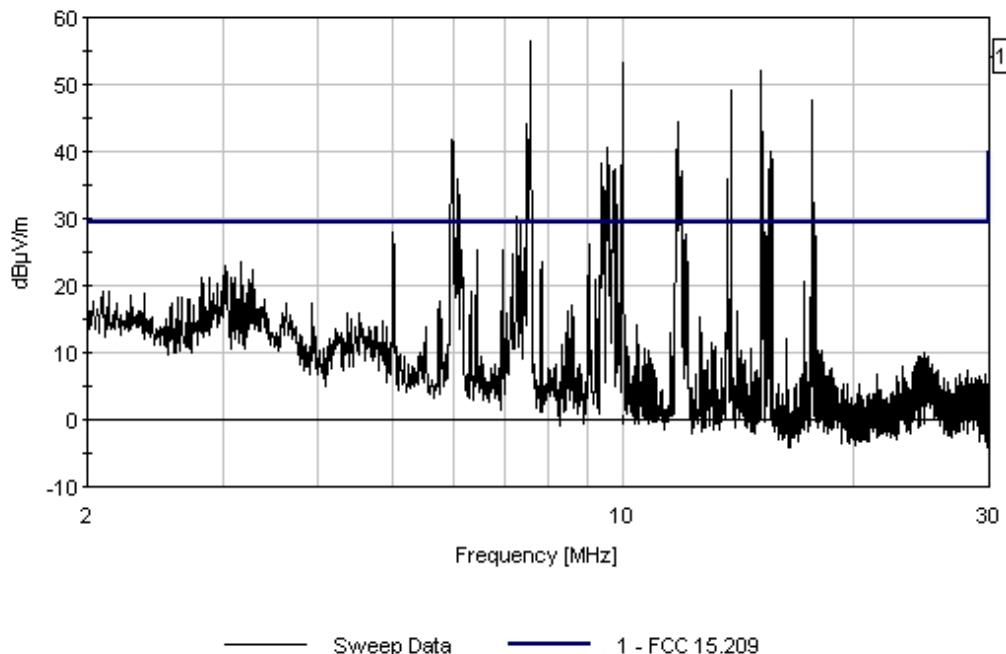
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 8. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.700M	20.4	+0.2	+0.3	+7.0	-19.1	+0.0	8.8	29.5	-20.7	Paral
2	25.650M	20.6	+0.2	+0.3	+6.6	-19.1	+0.0	8.6	29.5	-20.9	Paral
3	28.300M	20.1	+0.3	+0.3	+5.6	-19.1	+0.0	7.2	29.5	-22.3	Paral
4	29.230M	20.1	+0.3	+0.3	+5.3	-19.1	+0.0	6.9	29.5	-22.6	Paral
5	29.850M	18.1	+0.3	+0.3	+5.1	-19.1	+0.0	4.7	29.5	-24.8	Paral
6	23.950M	14.8	+0.2	+0.3	+7.1	-19.1	+0.0	3.3	29.5	-26.2	Paral
7	27.430M	15.5	+0.3	+0.3	+5.9	-19.1	+0.0	2.9	29.5	-26.6	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 17:00:23 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 141 Parallel
Underground Site 2 Position 8. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 17:04:15
 Equipment: **BPL MV Gateway** Sequence#: 142
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is -40log(30/10) or -19.1dB Test Position 9. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

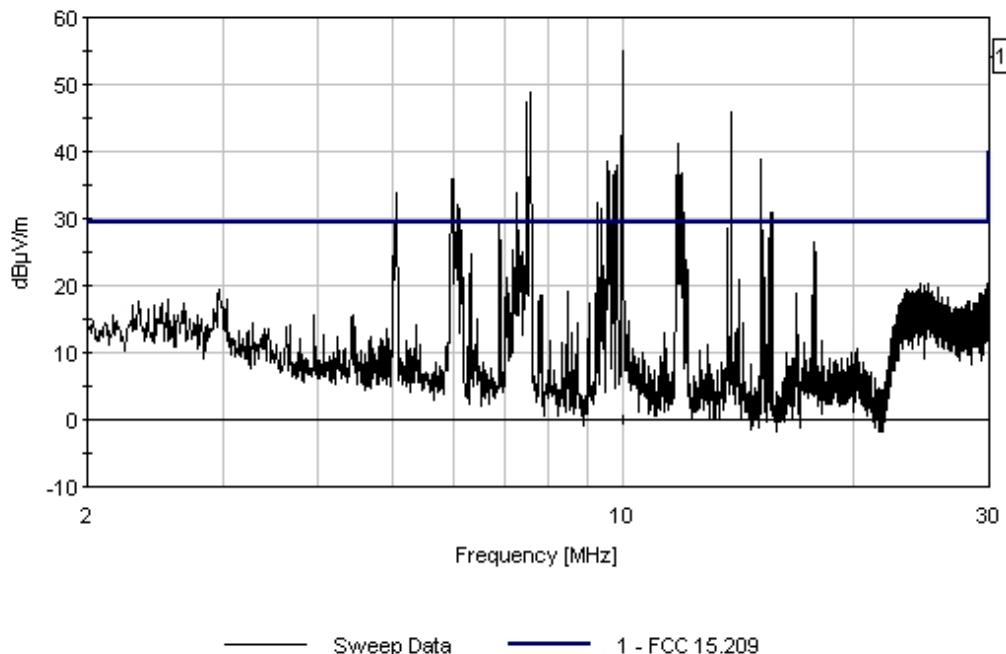
Measurement Data:

Reading listed by margin.

Test Distance: 10 Meters

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	34.1	+0.3	+0.3	+5.1	-19.1	+0.0	20.7	29.5	-8.8	Perpe
2	24.400M	32.2	+0.2	+0.3	+7.0	-19.1	+0.0	20.6	29.5	-8.9	Perpe
3	23.450M	31.5	+0.2	+0.3	+7.2	-19.1	+0.0	20.1	29.5	-9.4	Perpe
4	25.330M	31.7	+0.2	+0.3	+6.8	-19.1	+0.0	19.9	29.5	-9.6	Perpe
5	29.080M	31.8	+0.3	+0.3	+5.3	-19.1	+0.0	18.6	29.5	-10.9	Perpe
6	26.600M	30.0	+0.2	+0.3	+6.3	-19.1	+0.0	17.7	29.5	-11.8	Perpe
7	28.130M	29.6	+0.3	+0.3	+5.7	-19.1	+0.0	16.8	29.5	-12.7	Perpe
8	22.650M	27.0	+0.2	+0.3	+7.4	-19.1	+0.0	15.8	29.5	-13.8	Perpe

Underground Test Site #2 Date: 3/15/2006 Time: 17:04:15 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 142 Perpendicular
Underground Site 2 Position 9. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/15/2006
 Test Type: **Radiated Scan** Time: 17:06:23
 Equipment: **BPL MV Gateway** Sequence#: 143
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

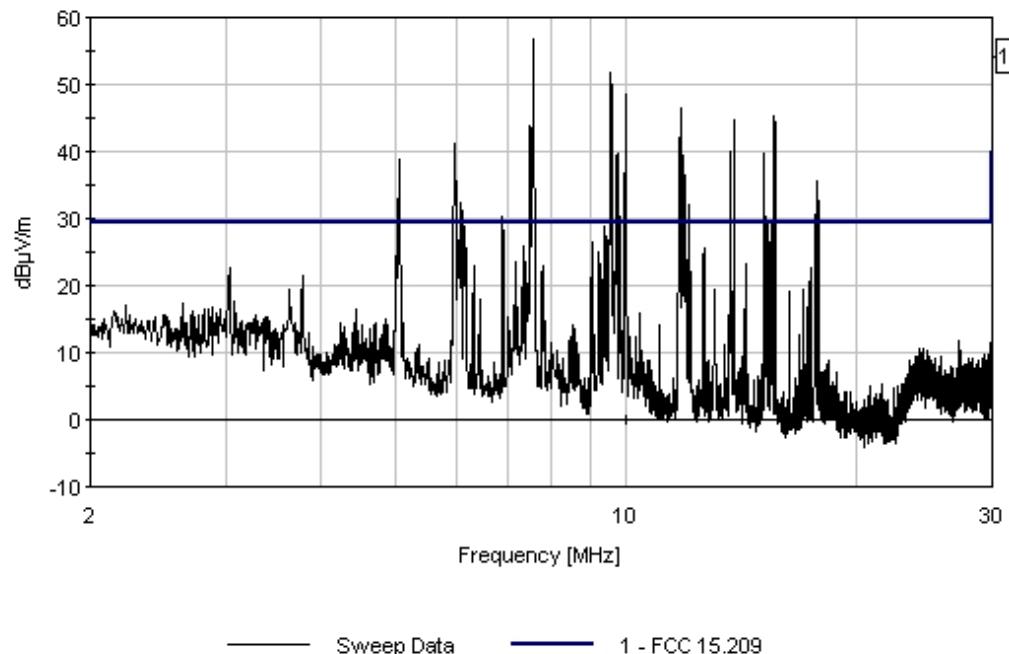
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 9. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.900M	22.1	+0.2	+0.3	+7.1	-19.1	+0.0	10.6	29.5	-18.9	Paral
2	29.850M	23.6	+0.3	+0.3	+5.1	-19.1	+0.0	10.2	29.5	-19.3	Paral
3	25.030M	21.7	+0.2	+0.3	+6.9	-19.1	+0.0	10.0	29.5	-19.5	Paral
4	26.130M	21.5	+0.2	+0.3	+6.4	-19.1	+0.0	9.3	29.5	-20.2	Paral
5	28.600M	21.7	+0.3	+0.3	+5.5	-19.1	+0.0	8.7	29.5	-20.8	Paral
6	27.350M	21.0	+0.2	+0.3	+6.0	-19.1	+0.0	8.4	29.5	-21.1	Paral
7	22.880M	17.1	+0.2	+0.3	+7.4	-19.1	+0.0	5.9	29.5	-23.6	Paral

Underground Test Site #2 Date: 3/15/2006 Time: 17:06:23 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 143 Parallel
Underground Site 2 Position 9. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:10:12
 Equipment: **BPL MV Gateway** Sequence#: 144
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

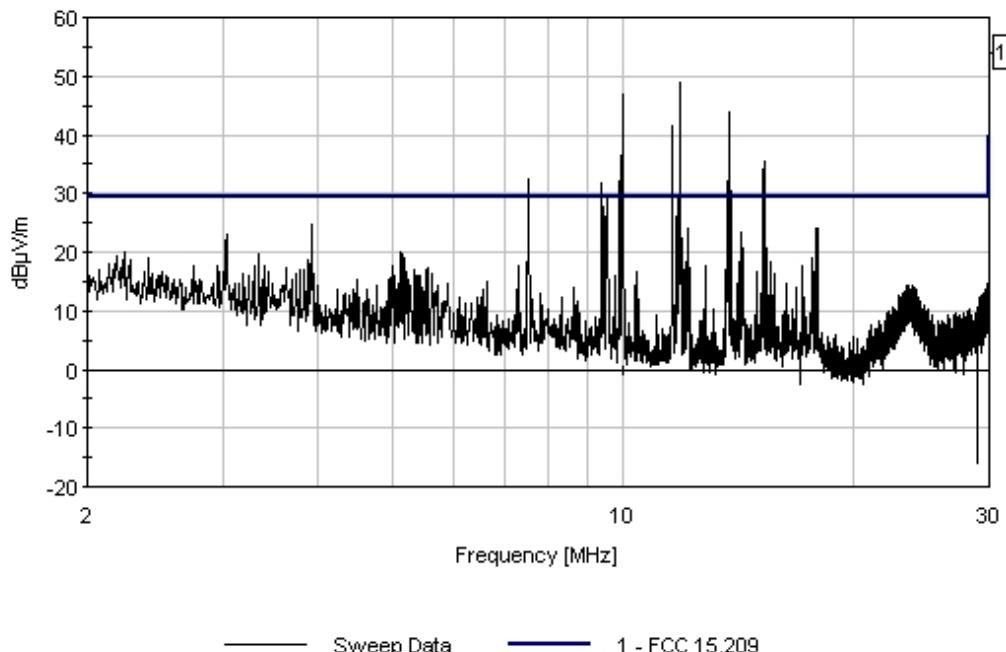
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 10. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.600M	26.4	+0.2	+0.3	+7.2	-19.1	+0.0	15.0	29.5	-14.5	Paral
2	29.800M	28.2	+0.3	+0.3	+5.1	-19.1	+0.0	14.8	29.5	-14.7	Paral
3	22.800M	23.2	+0.2	+0.3	+7.4	-19.1	+0.0	12.0	29.5	-17.5	Paral
4	28.130M	23.8	+0.3	+0.3	+5.7	-19.1	+0.0	11.0	29.5	-18.5	Paral
5	25.030M	22.1	+0.2	+0.3	+6.9	-19.1	+0.0	10.4	29.5	-19.1	Paral
6	26.280M	21.6	+0.2	+0.3	+6.4	-19.1	+0.0	9.4	29.5	-20.1	Paral
7	21.080M	19.0	+0.2	+0.3	+7.8	-19.1	+0.0	8.2	29.5	-21.3	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:10:12 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 144 Parallel
Underground Site 2 Position 10. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:13:22
 Equipment: **BPL MV Gateway** Sequence#: 145
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

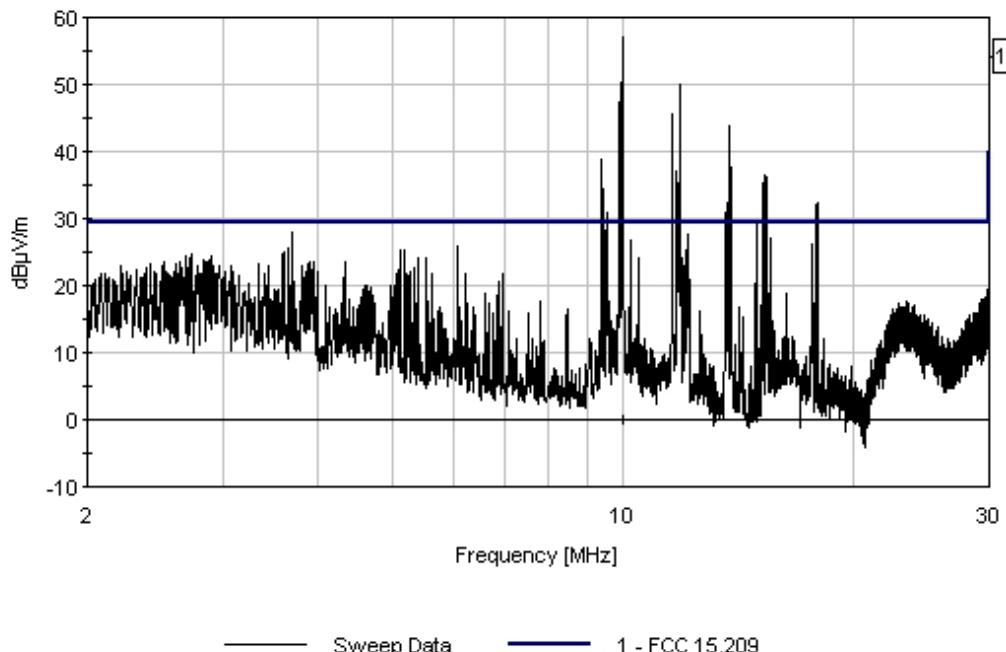
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 10. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	32.8	+0.3	+0.3	+5.1	-19.1	+0.0	19.4	29.5	-10.1	Perpe
2	22.980M	28.6	+0.2	+0.3	+7.4	-19.1	+0.0	17.4	29.5	-12.1	Perpe
3	23.900M	28.2	+0.2	+0.3	+7.1	-19.1	+0.0	16.7	29.5	-12.8	Perpe
4	28.280M	29.1	+0.3	+0.3	+5.6	-19.1	+0.0	16.2	29.5	-13.3	Perpe
5	25.330M	26.7	+0.2	+0.3	+6.8	-19.1	+0.0	14.9	29.5	-14.6	Perpe
6	21.880M	25.0	+0.2	+0.3	+7.6	-19.1	+0.0	14.0	29.5	-15.5	Perpe
7	26.580M	24.7	+0.2	+0.3	+6.3	-19.1	+0.0	12.4	29.5	-17.2	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:13:22 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 145 Perpendicular
Underground Site 2 Position 10. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:16:24
 Equipment: **BPL MV Gateway** Sequence#: 146
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

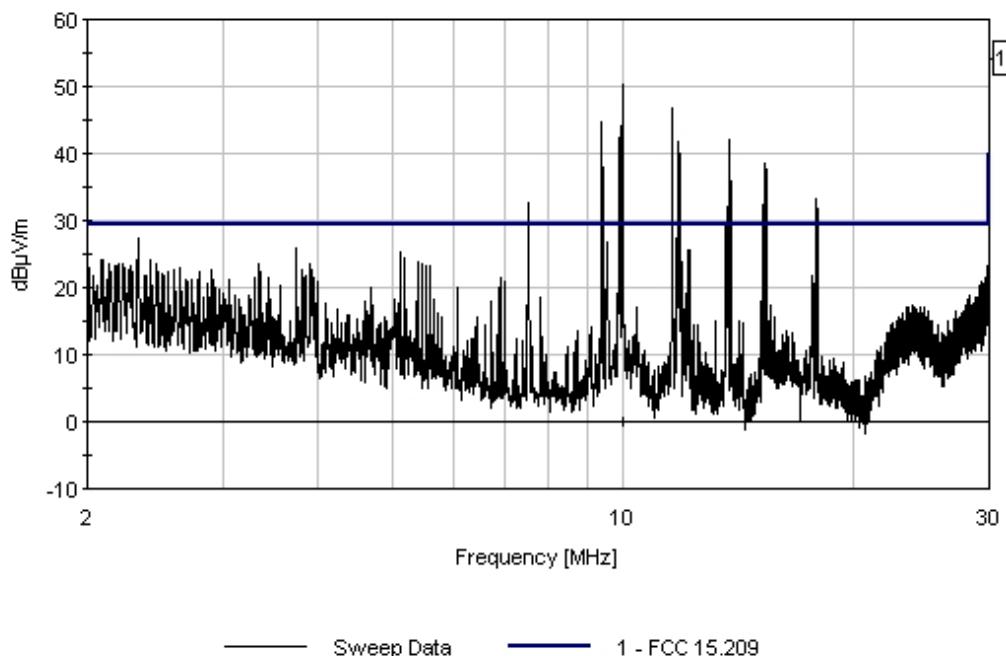
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 11. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	36.4	+0.3	+0.3	+5.1	-19.1	+0.0	23.0	29.5	-6.5	Perpe
2	28.600M	30.5	+0.3	+0.3	+5.5	-19.1	+0.0	17.5	29.5	-12.0	Perpe
3	23.930M	28.9	+0.2	+0.3	+7.1	-19.1	+0.0	17.4	29.5	-12.1	Perpe
4	23.450M	28.5	+0.2	+0.3	+7.2	-19.1	+0.0	17.1	29.5	-12.4	Perpe
5	25.330M	27.6	+0.2	+0.3	+6.8	-19.1	+0.0	15.8	29.5	-13.8	Perpe
6	22.500M	26.6	+0.2	+0.3	+7.5	-19.1	+0.0	15.5	29.5	-14.0	Perpe
7	27.030M	26.5	+0.2	+0.3	+6.1	-19.1	+0.0	14.0	29.5	-15.5	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:16:24 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 146 Perpendicular
Underground Site 2 Position 11. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:18:31
 Equipment: **BPL MV Gateway** Sequence#: 147
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

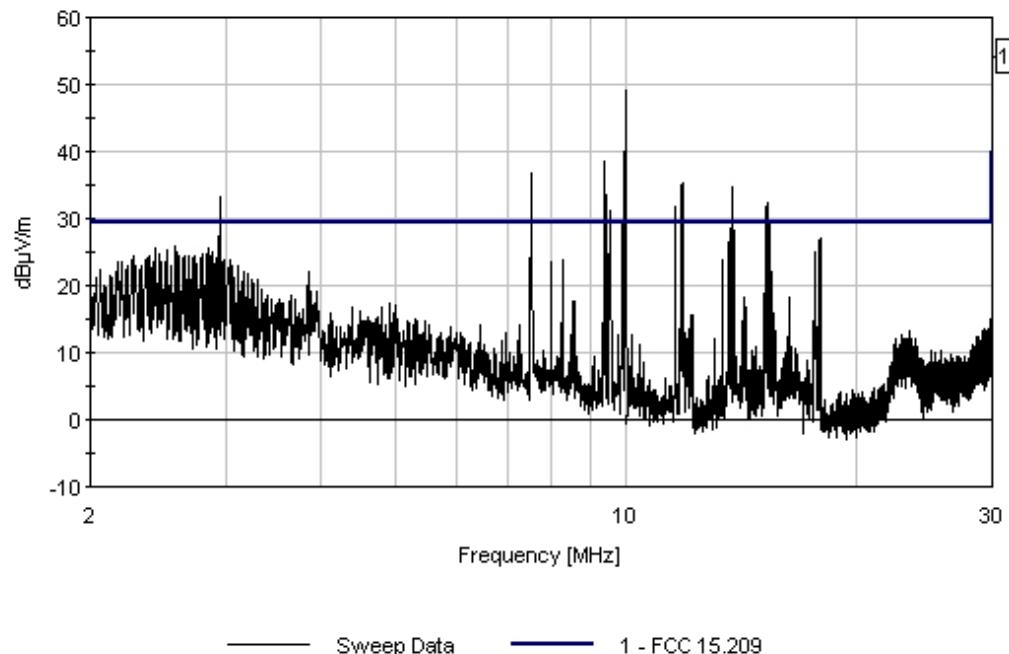
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 11. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	27.5	+0.3	+0.3	+5.1	-19.1	+0.0	14.1	29.5	-15.4	Paral
2	23.430M	24.4	+0.2	+0.3	+7.2	-19.1	+0.0	13.0	29.5	-16.5	Paral
3	22.800M	23.8	+0.2	+0.3	+7.4	-19.1	+0.0	12.6	29.5	-16.9	Paral
4	28.580M	25.0	+0.3	+0.3	+5.5	-19.1	+0.0	12.0	29.5	-17.5	Paral
5	26.100M	22.5	+0.2	+0.3	+6.5	-19.1	+0.0	10.4	29.5	-19.1	Paral
6	24.380M	20.9	+0.2	+0.3	+7.0	-19.1	+0.0	9.3	29.5	-20.2	Paral
7	21.880M	18.6	+0.2	+0.3	+7.6	-19.1	+0.0	7.6	29.5	-21.9	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:18:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 147 Parallel
Underground Site 2 Position 11. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:21:09
 Equipment: **BPL MV Gateway** Sequence#: 148
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

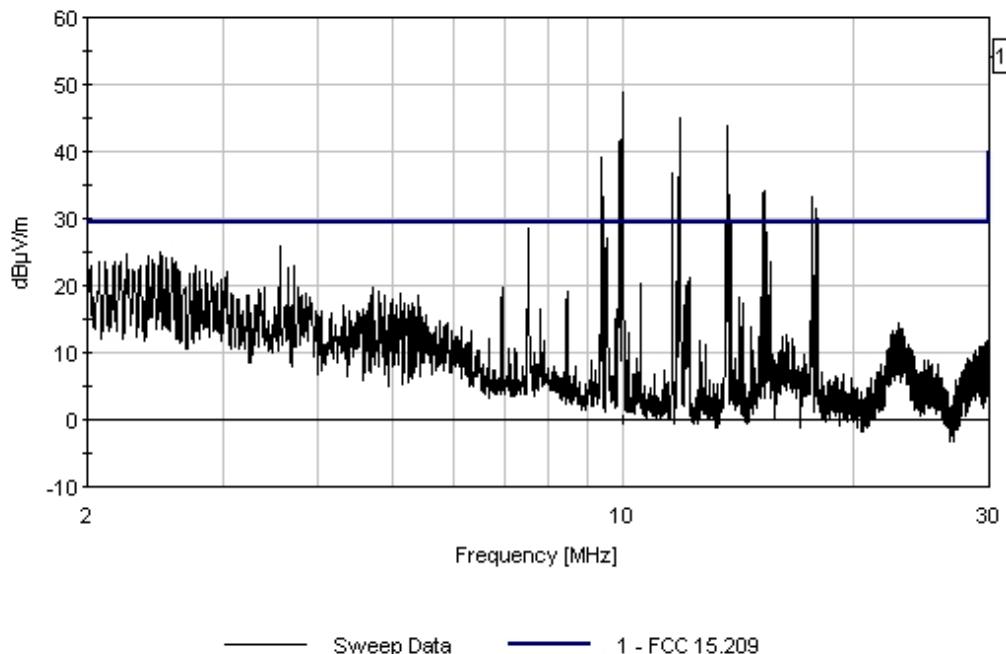
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 12. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.830M	24.8	+0.2	+0.3	+7.4	-19.1	+0.0	13.6	29.5	-15.9	Paral
2	23.450M	24.7	+0.2	+0.3	+7.2	-19.1	+0.0	13.3	29.5	-16.2	Paral
3	29.950M	26.5	+0.3	+0.3	+5.0	-19.1	+0.0	13.0	29.5	-16.5	Paral
4	22.030M	22.0	+0.2	+0.3	+7.6	-19.1	+0.0	11.0	29.5	-18.5	Paral
5	29.030M	23.1	+0.3	+0.3	+5.3	-19.1	+0.0	9.9	29.5	-19.6	Paral
6	24.850M	20.3	+0.2	+0.3	+6.9	-19.1	+0.0	8.6	29.5	-20.9	Paral
7	25.950M	19.4	+0.2	+0.3	+6.5	-19.1	+0.0	7.3	29.5	-22.2	Paral
8	27.780M	19.7	+0.3	+0.3	+5.8	-19.1	+0.0	7.0	29.5	-22.5	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:21:09 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 148 Parallel
Underground Site 2 Position 12. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:23:19
 Equipment: **BPL MV Gateway** Sequence#: 149
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

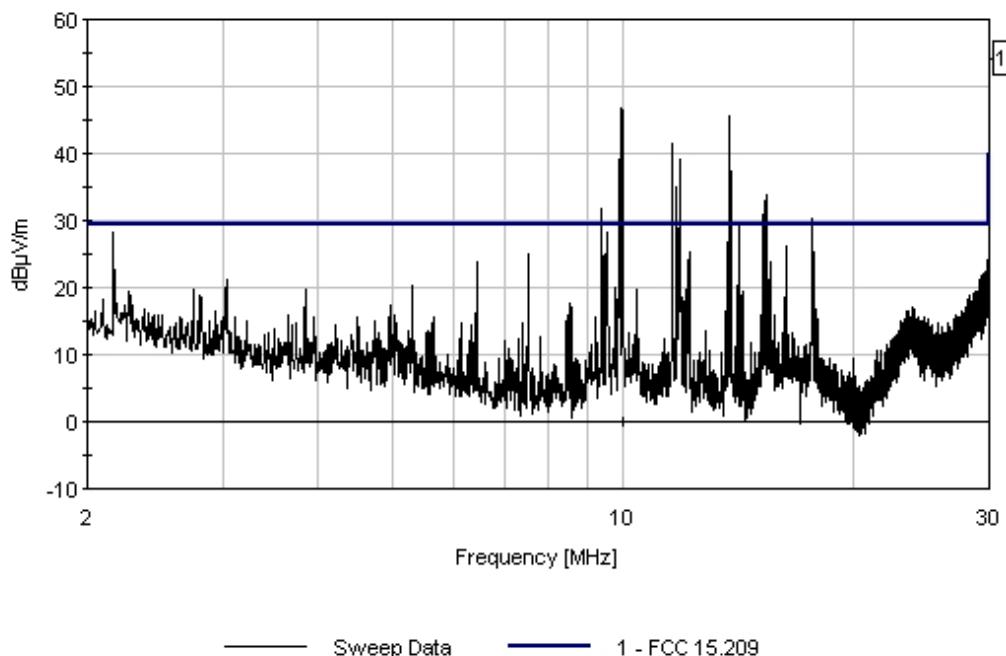
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 12. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	38.1	+0.3	+0.3	+5.1	-19.1	+0.0	24.7	29.5	-4.9	Perpe
2	29.030M	34.1	+0.3	+0.3	+5.3	-19.1	+0.0	20.9	29.5	-8.6	Perpe
3	28.130M	31.4	+0.3	+0.3	+5.7	-19.1	+0.0	18.6	29.5	-10.9	Perpe
4	23.750M	28.9	+0.2	+0.3	+7.2	-19.1	+0.0	17.5	29.5	-12.0	Perpe
5	26.580M	27.2	+0.2	+0.3	+6.3	-19.1	+0.0	14.9	29.5	-14.6	Perpe
6	25.000M	26.6	+0.2	+0.3	+6.9	-19.1	+0.0	14.9	29.5	-14.7	Perpe
7	22.800M	25.9	+0.2	+0.3	+7.4	-19.1	+0.0	14.7	29.5	-14.8	Perpe
8	21.230M	21.3	+0.2	+0.3	+7.8	-19.1	+0.0	10.5	29.5	-19.0	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:23:19 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 149 Perpendicular
Underground Site 2 Position 12. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:25:49
 Equipment: **BPL MV Gateway** Sequence#: 150
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

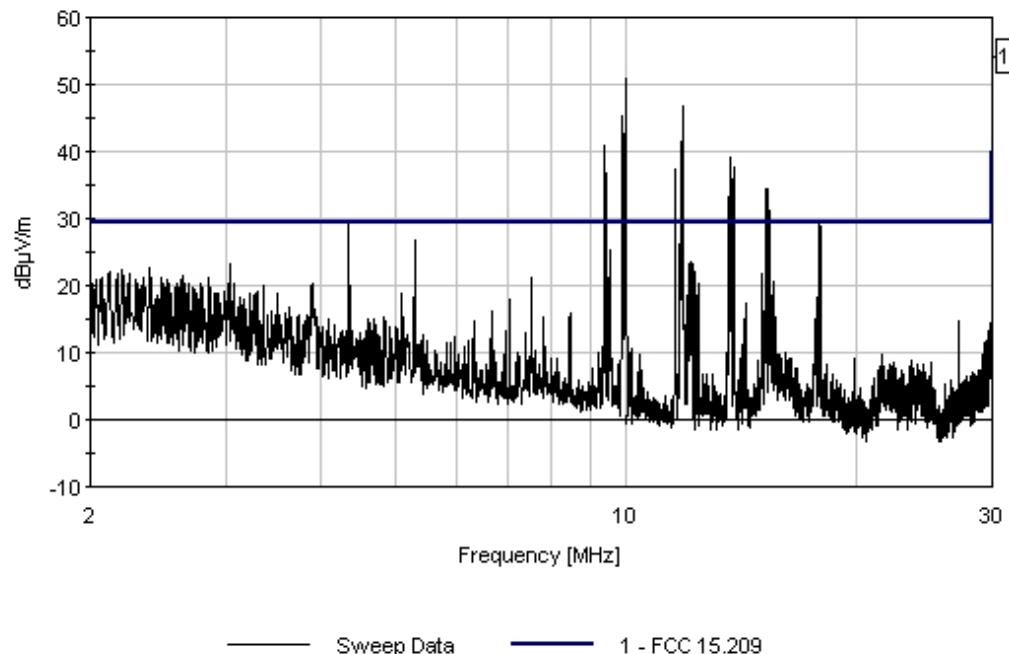
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 13. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.				Test Distance: 10 Meters					
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	27.0	+0.3	+0.3	+5.0	-19.1	+0.0	13.5	29.5	-16.1	Paral
2	22.500M	21.7	+0.2	+0.3	+7.5	-19.1	+0.0	10.6	29.5	-18.9	Paral
3	29.050M	22.8	+0.3	+0.3	+5.3	-19.1	+0.0	9.6	29.5	-19.9	Paral
4	21.400M	19.6	+0.2	+0.3	+7.7	-19.1	+0.0	8.7	29.5	-20.8	Paral
5	23.930M	20.2	+0.2	+0.3	+7.1	-19.1	+0.0	8.7	29.5	-20.8	Paral
6	25.000M	19.6	+0.2	+0.3	+6.9	-19.1	+0.0	7.9	29.5	-21.6	Paral
7	27.830M	17.9	+0.3	+0.3	+5.8	-19.1	+0.0	5.2	29.5	-24.3	Paral
8	26.400M	16.2	+0.2	+0.3	+6.3	-19.1	+0.0	3.9	29.5	-25.6	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:25:49 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 150 Parallel
Underground Site 2 Position 13. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:28:06
 Equipment: **BPL MV Gateway** Sequence#: 151
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

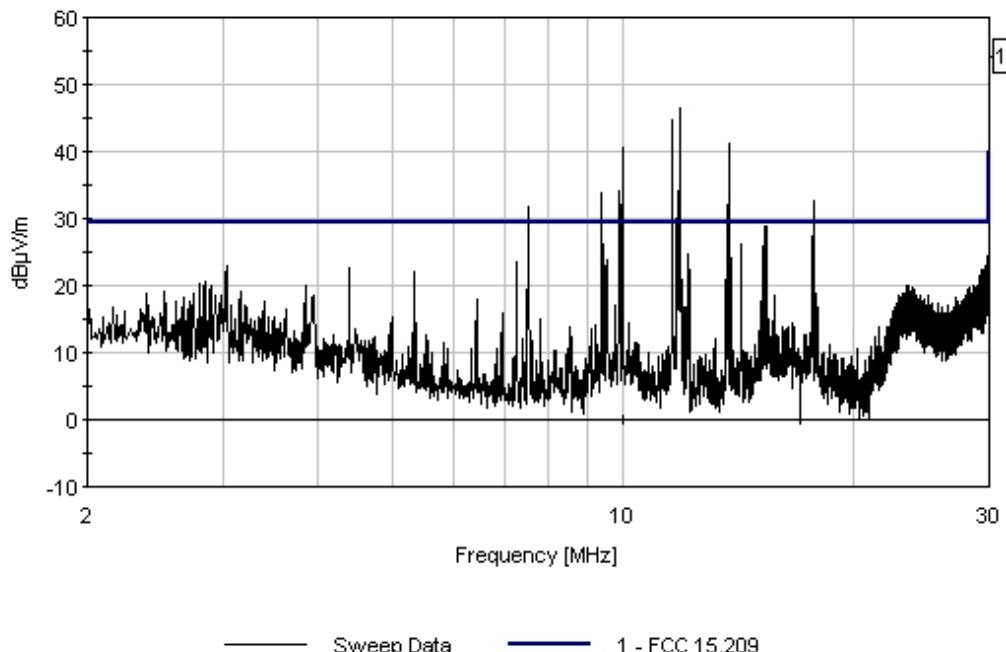
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 13. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	37.8	+0.3	+0.3	+5.1	-19.1	+0.0	24.4	29.5	-5.2	Perpe
2	28.280M	32.9	+0.3	+0.3	+5.6	-19.1	+0.0	20.0	29.5	-9.5	Perpe
3	23.600M	31.3	+0.2	+0.3	+7.2	-19.1	+0.0	19.9	29.5	-9.6	Perpe
4	24.380M	30.5	+0.2	+0.3	+7.0	-19.1	+0.0	18.9	29.5	-10.6	Perpe
5	25.330M	29.8	+0.2	+0.3	+6.8	-19.1	+0.0	18.0	29.5	-11.5	Perpe
6	26.580M	29.4	+0.2	+0.3	+6.3	-19.1	+0.0	17.1	29.5	-12.4	Perpe
7	22.500M	28.2	+0.2	+0.3	+7.5	-19.1	+0.0	17.1	29.5	-12.4	Perpe
8	21.530M	21.2	+0.2	+0.3	+7.7	-19.1	+0.0	10.3	29.5	-19.2	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:28:06 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 151 Perpendicular
Underground Site 2 Position 13. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:30:46
 Equipment: **BPL MV Gateway** Sequence#: 152
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

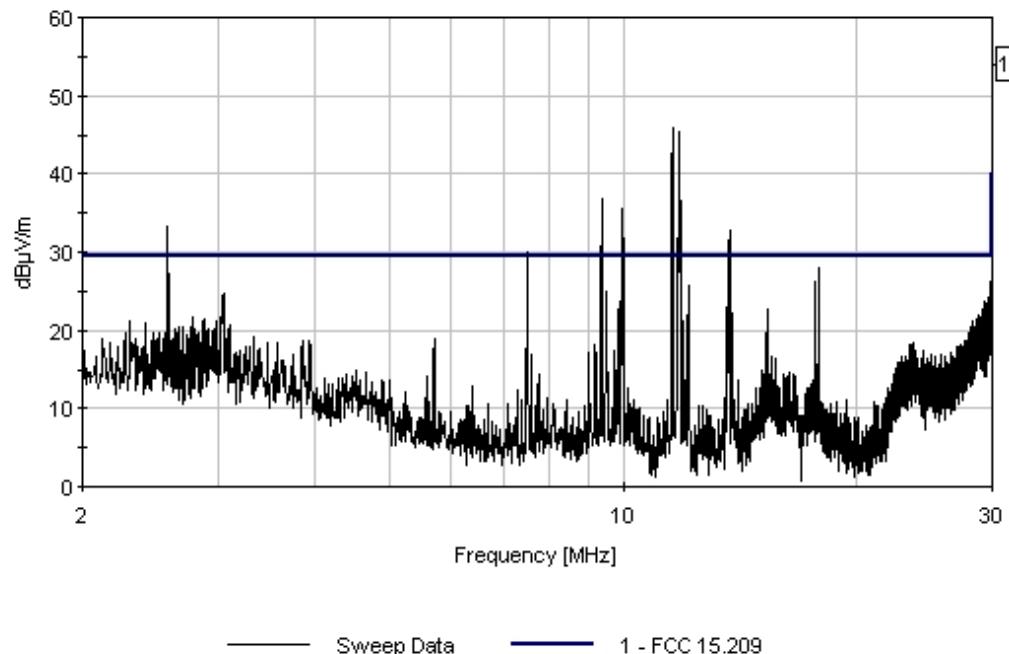
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 14. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

Measurement Data:		Reading listed by margin.						Test Distance: 10 Meters			
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	39.1	+0.3	+0.3	+5.1	-19.1	+0.0	25.7	29.5	-3.8	Perpe
2	28.580M	34.6	+0.3	+0.3	+5.5	-19.1	+0.0	21.6	29.5	-7.9	Perpe
3	27.200M	31.9	+0.2	+0.3	+6.0	-19.1	+0.0	19.3	29.5	-10.2	Perpe
4	23.580M	28.9	+0.2	+0.3	+7.2	-19.1	+0.0	17.5	29.5	-12.0	Perpe
5	24.700M	28.4	+0.2	+0.3	+7.0	-19.1	+0.0	16.8	29.5	-12.7	Perpe
6	25.780M	26.8	+0.2	+0.3	+6.6	-19.1	+0.0	14.8	29.5	-14.8	Perpe
7	22.480M	25.5	+0.2	+0.3	+7.5	-19.1	+0.0	14.4	29.5	-15.1	Perpe
8	21.230M	22.4	+0.2	+0.3	+7.8	-19.1	+0.0	11.6	29.5	-17.9	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:30:46 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 152 Perpendicular
Underground Site 2 Position 14. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:33:33
 Equipment: **BPL MV Gateway** Sequence#: 153
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

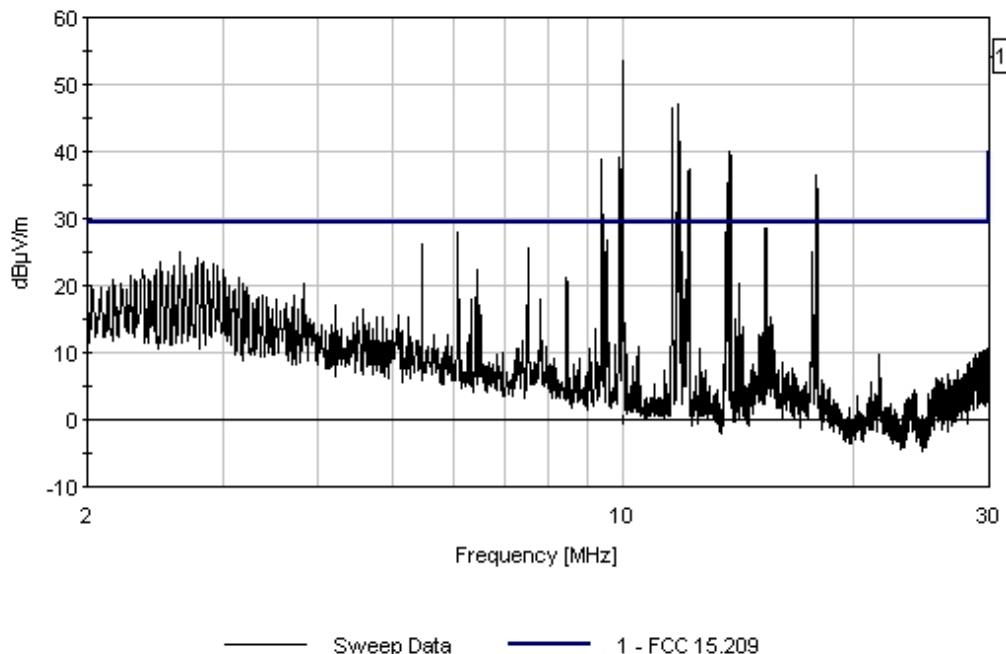
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 14. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.050M	23.7	+0.3	+0.3	+5.3	-19.1	+0.0	10.5	29.5	-19.0	Paral
2	29.950M	23.7	+0.3	+0.3	+5.0	-19.1	+0.0	10.2	29.5	-19.3	Paral
3	27.650M	19.4	+0.3	+0.3	+5.9	-19.1	+0.0	6.8	29.5	-22.7	Paral
4	26.100M	18.5	+0.2	+0.3	+6.5	-19.1	+0.0	6.4	29.5	-23.1	Paral
5	24.030M	13.8	+0.2	+0.3	+7.1	-19.1	+0.0	2.3	29.5	-27.2	Paral
6	23.400M	13.3	+0.2	+0.3	+7.3	-19.1	+0.0	2.0	29.5	-27.5	Paral
7	22.500M	12.6	+0.2	+0.3	+7.5	-19.1	+0.0	1.5	29.5	-28.0	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:33:33 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 153 Parallel
Underground Site 2 Position 14. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:39:14
 Equipment: **BPL MV Gateway** Sequence#: 154
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

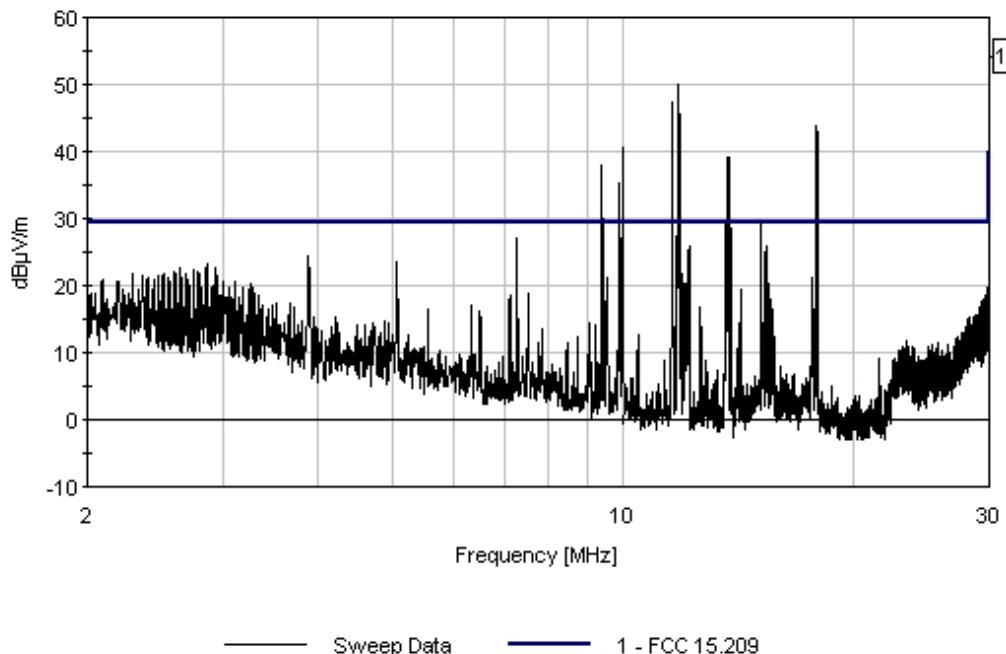
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 15. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	32.8	+0.3	+0.3	+5.1	-19.1	+0.0	19.4	29.5	-10.1	Paral
2	28.880M	28.2	+0.3	+0.3	+5.4	-19.1	+0.0	15.1	29.5	-14.4	Paral
3	27.950M	26.4	+0.3	+0.3	+5.7	-19.1	+0.0	13.6	29.5	-15.9	Paral
4	25.800M	22.9	+0.2	+0.3	+6.6	-19.1	+0.0	10.9	29.5	-18.6	Paral
5	23.130M	21.9	+0.2	+0.3	+7.3	-19.1	+0.0	10.6	29.5	-18.9	Paral
6	26.730M	22.4	+0.2	+0.3	+6.2	-19.1	+0.0	10.0	29.5	-19.5	Paral
7	24.680M	21.1	+0.2	+0.3	+7.0	-19.1	+0.0	9.5	29.5	-20.0	Paral
8	22.480M	19.6	+0.2	+0.3	+7.5	-19.1	+0.0	8.5	29.5	-21.0	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:39:14 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 154 Parallel
Underground Site 2 Position 15. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:41:42
 Equipment: **BPL MV Gateway** Sequence#: 155
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

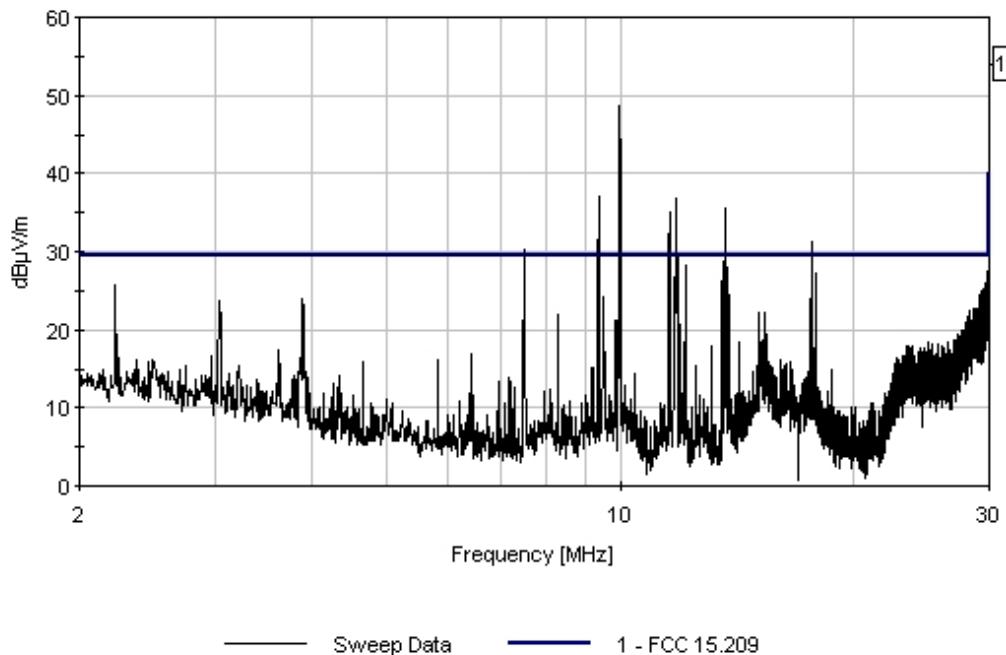
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 15: Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	40.3	+0.3	+0.3	+5.1	-19.1	+0.0	26.9	29.5	-2.6	Perpe
2	28.750M	35.8	+0.3	+0.3	+5.4	-19.1	+0.0	22.7	29.5	-6.8	Perpe
3	27.330M	31.4	+0.2	+0.3	+6.0	-19.1	+0.0	18.8	29.5	-10.7	Perpe
4	26.100M	30.6	+0.2	+0.3	+6.5	-19.1	+0.0	18.5	29.5	-11.0	Perpe
5	25.000M	30.2	+0.2	+0.3	+6.9	-19.1	+0.0	18.5	29.5	-11.0	Perpe
6	23.600M	29.7	+0.2	+0.3	+7.2	-19.1	+0.0	18.3	29.5	-11.2	Perpe
7	22.800M	28.4	+0.2	+0.3	+7.4	-19.1	+0.0	17.2	29.5	-12.3	Perpe
8	22.030M	23.6	+0.2	+0.3	+7.6	-19.1	+0.0	12.6	29.5	-16.9	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:41:42 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 155 Perpendicular
Underground Site 2 Position 15. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •
 Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:47:04
 Equipment: **BPL MV Gateway** Sequence#: 156
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

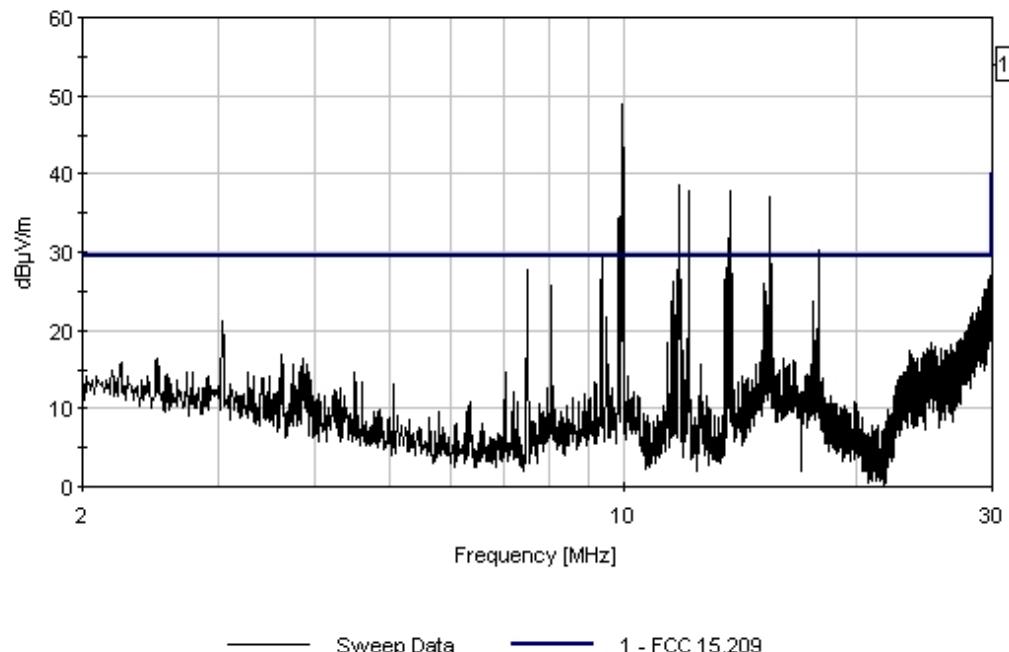
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 16. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

Measurement Data:		Reading listed by margin.						Test Distance: 10 Meters			
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	40.4	+0.3	+0.3	+5.0	-19.1	+0.0	26.9	29.5	-2.6	Perpe
2	29.030M	36.7	+0.3	+0.3	+5.3	-19.1	+0.0	23.5	29.5	-6.0	Perpe
3	27.180M	32.3	+0.2	+0.3	+6.0	-19.1	+0.0	19.7	29.5	-9.8	Perpe
4	25.000M	30.7	+0.2	+0.3	+6.9	-19.1	+0.0	19.0	29.5	-10.5	Perpe
5	24.380M	30.2	+0.2	+0.3	+7.0	-19.1	+0.0	18.6	29.5	-10.9	Perpe
6	25.780M	30.0	+0.2	+0.3	+6.6	-19.1	+0.0	18.0	29.5	-11.5	Perpe
7	26.550M	29.1	+0.2	+0.3	+6.3	-19.1	+0.0	16.8	29.5	-12.7	Perpe
8	23.450M	27.9	+0.2	+0.3	+7.2	-19.1	+0.0	16.5	29.5	-13.0	Perpe
9	22.480M	25.3	+0.2	+0.3	+7.5	-19.1	+0.0	14.2	29.5	-15.3	Perpe

Underground Test Site #2 Date: 3/16/2006 Time: 09:47:04 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 156 Perpendicular
Underground Site 2 Position 16. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #2 •Grayson Lakes Section 9, Transformer #5 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/16/2006
 Test Type: **Radiated Scan** Time: 09:49:53
 Equipment: **BPL MV Gateway** Sequence#: 157
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

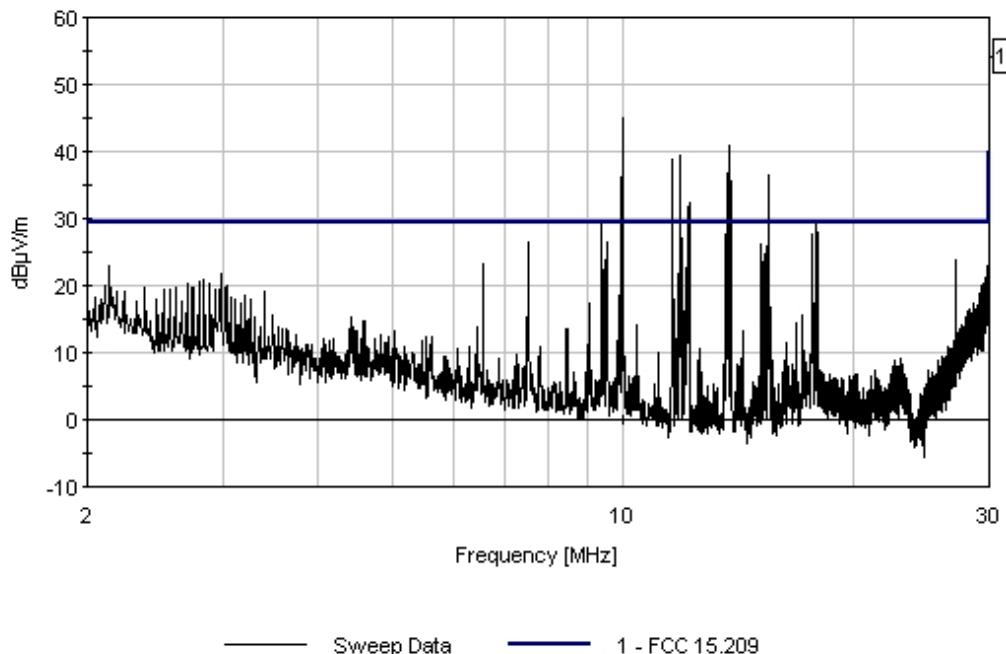
Formal Underground Test Site #2: At Grayson Lakes Section 9, Transformer #5 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB Test Position 16. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The two transformers down the line from the transformer has a coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.800M	36.0	+0.3	+0.3	+5.1	-19.1	+0.0	22.6	29.5	-6.9	Paral
2	28.730M	29.2	+0.3	+0.3	+5.5	-19.1	+0.0	16.2	29.5	-13.3	Paral
3	27.650M	26.5	+0.3	+0.3	+5.9	-19.1	+0.0	13.9	29.5	-15.6	Paral
4	26.580M	23.1	+0.2	+0.3	+6.3	-19.1	+0.0	10.8	29.5	-18.7	Paral
5	22.950M	19.8	+0.2	+0.3	+7.4	-19.1	+0.0	8.6	29.5	-20.9	Paral
6	25.000M	18.0	+0.2	+0.3	+6.9	-19.1	+0.0	6.3	29.5	-23.2	Paral
7	22.180M	15.5	+0.2	+0.3	+7.5	-19.1	+0.0	4.4	29.5	-25.1	Paral
8	23.750M	14.3	+0.2	+0.3	+7.2	-19.1	+0.0	2.9	29.5	-26.6	Paral

Underground Test Site #2 Date: 3/16/2006 Time: 09:49:53 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 157 Parallel
Underground Site 2 Position 16. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:31:21
 Equipment: **BPL MV Gateway** Sequence#: 181
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

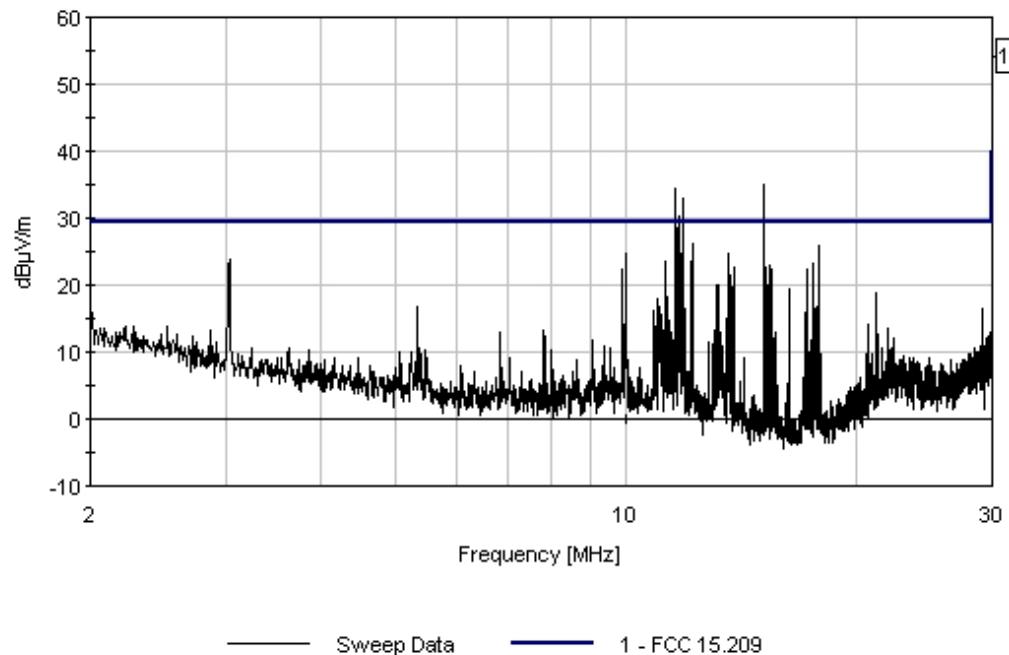
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 1: Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.830M	25.4	+0.3	+0.3	+5.1	-19.1	+0.0	12.0	29.5	-17.5	Perpe
2	28.430M	23.0	+0.3	+0.3	+5.6	-19.1	+0.0	10.1	29.5	-19.4	Perpe
3	24.680M	21.1	+0.2	+0.3	+7.0	-19.1	+0.0	9.5	29.5	-20.0	Perpe
4	23.750M	20.6	+0.2	+0.3	+7.2	-19.1	+0.0	9.2	29.5	-20.3	Perpe
5	25.880M	21.1	+0.2	+0.3	+6.5	-19.1	+0.0	9.0	29.5	-20.5	Perpe
6	22.350M	19.7	+0.2	+0.3	+7.5	-19.1	+0.0	8.6	29.5	-20.9	Perpe
7	27.050M	20.0	+0.2	+0.3	+6.1	-19.1	+0.0	7.5	29.5	-22.0	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 10:31:21 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 181 Perpendicular
Underground Site 3 Position 1. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:24:41
 Equipment: **BPL MV Gateway** Sequence#: 180
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

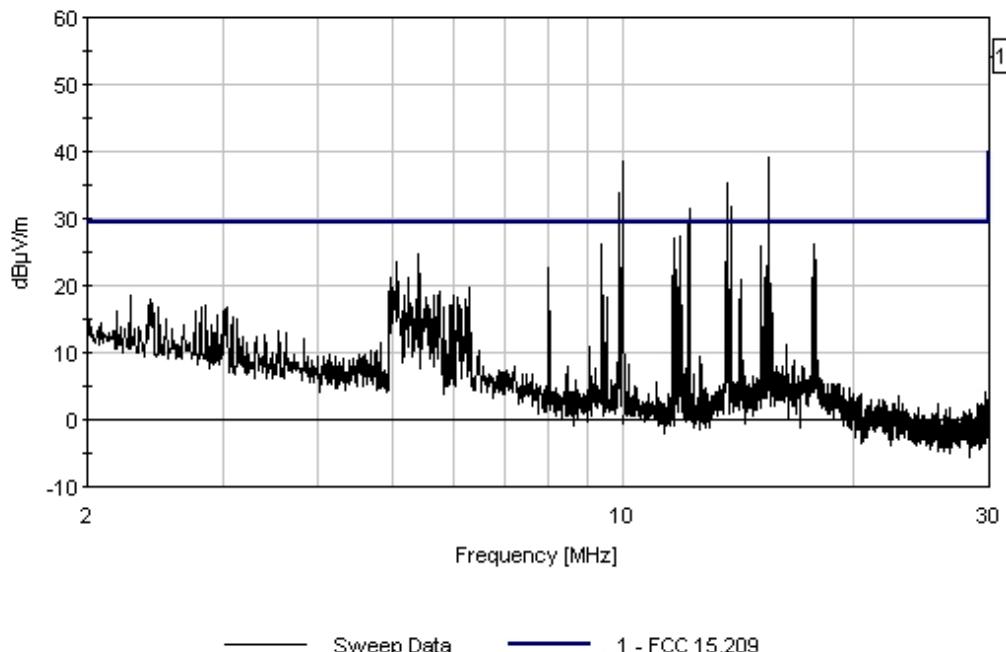
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 1. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.978M	15.3	+0.3	+0.3	+5.0	-19.1	+0.0	1.8	29.5	-27.7	Paral
2	28.643M	14.2	+0.3	+0.3	+5.5	-19.1	+0.0	1.2	29.5	-28.3	Paral
3	29.235M	14.2	+0.3	+0.3	+5.3	-19.1	+0.0	1.0	29.5	-28.5	Paral
4	28.155M	10.3	+0.3	+0.3	+5.7	-19.1	+0.0	-2.5	29.5	-32.0	Paral
5	27.488M	9.6	+0.3	+0.3	+5.9	-19.1	+0.0	-3.0	29.5	-32.5	Paral
6	27.938M	9.0	+0.3	+0.3	+5.7	-19.1	+0.0	-3.8	29.5	-33.3	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 10:24:41 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 180 Parallel
Underground Site 3 Position 1. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:34:34
 Equipment: **BPL MV Gateway** Sequence#: 182
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

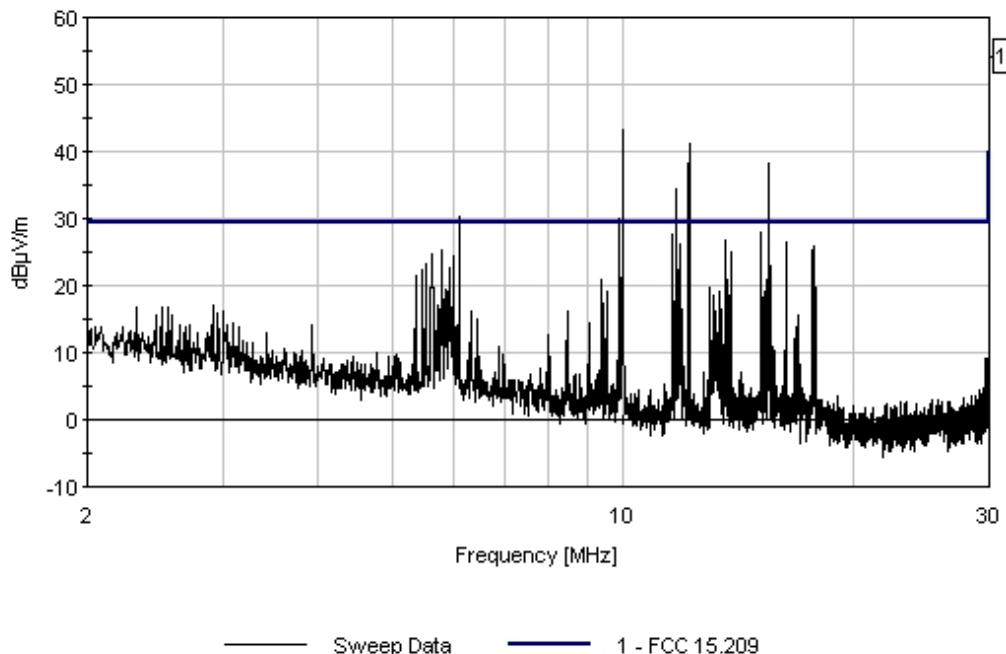
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 2. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.854M	18.5	+0.3	+0.3	+5.1	-19.1	+0.0	5.1	29.5	-24.4	Paral
2	29.544M	17.4	+0.3	+0.3	+5.2	-19.1	+0.0	4.1	29.5	-25.4	Paral
3	28.657M	15.5	+0.3	+0.3	+5.5	-19.1	+0.0	2.5	29.5	-27.0	Paral
4	28.287M	15.4	+0.3	+0.3	+5.6	-19.1	+0.0	2.5	29.5	-27.0	Paral
5	27.500M	14.9	+0.3	+0.3	+5.9	-19.1	+0.0	2.3	29.5	-27.2	Paral
6	29.081M	15.2	+0.3	+0.3	+5.3	-19.1	+0.0	2.0	29.5	-27.5	Paral
7	27.970M	14.8	+0.3	+0.3	+5.7	-19.1	+0.0	2.0	29.5	-27.5	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 10:34:34 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 182 Parallel
Underground Site 3 Position 2. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:37:31
 Equipment: **BPL MV Gateway** Sequence#: 183
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

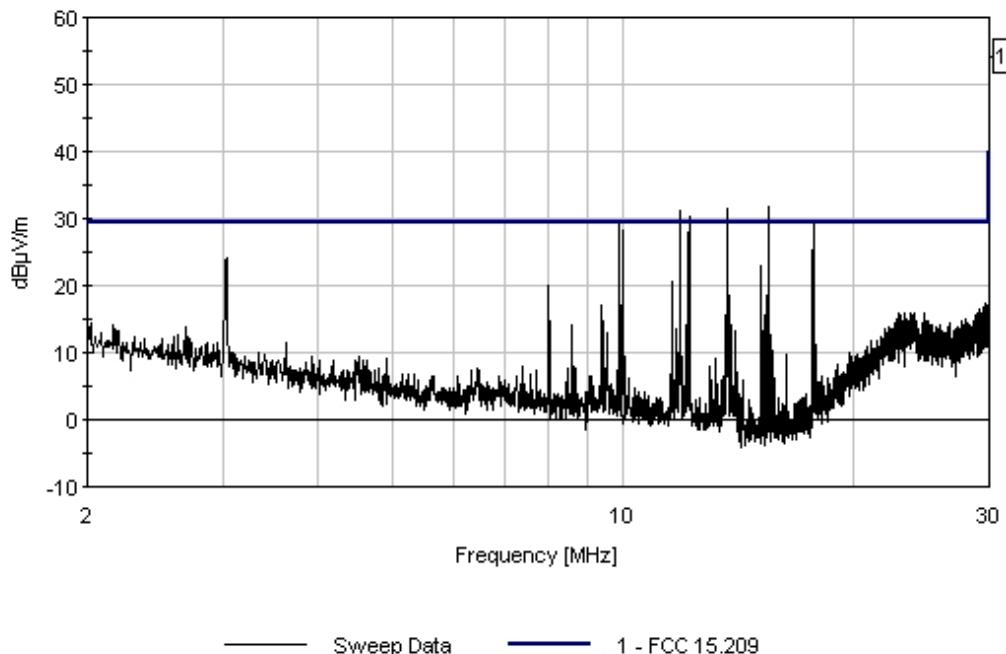
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 2. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.650M	30.0	+0.3	+0.3	+5.1	-19.1	+0.0	16.6	29.5	-12.9	Perpe
2	23.900M	26.8	+0.2	+0.3	+7.1	-19.1	+0.0	15.3	29.5	-14.3	Perpe
3	26.580M	26.5	+0.2	+0.3	+6.3	-19.1	+0.0	14.2	29.5	-15.3	Perpe
4	28.000M	26.8	+0.3	+0.3	+5.7	-19.1	+0.0	14.0	29.5	-15.5	Perpe
5	21.880M	25.0	+0.2	+0.3	+7.6	-19.1	+0.0	14.0	29.5	-15.6	Perpe
6	22.930M	25.0	+0.2	+0.3	+7.4	-19.1	+0.0	13.8	29.5	-15.7	Perpe
7	24.900M	25.5	+0.2	+0.3	+6.9	-19.1	+0.0	13.8	29.5	-15.7	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 10:37:31 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 183 Perpendicular
Underground Site 3 Position 2. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:35:32
 Equipment: **BPL MV Gateway** Sequence#: 206
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

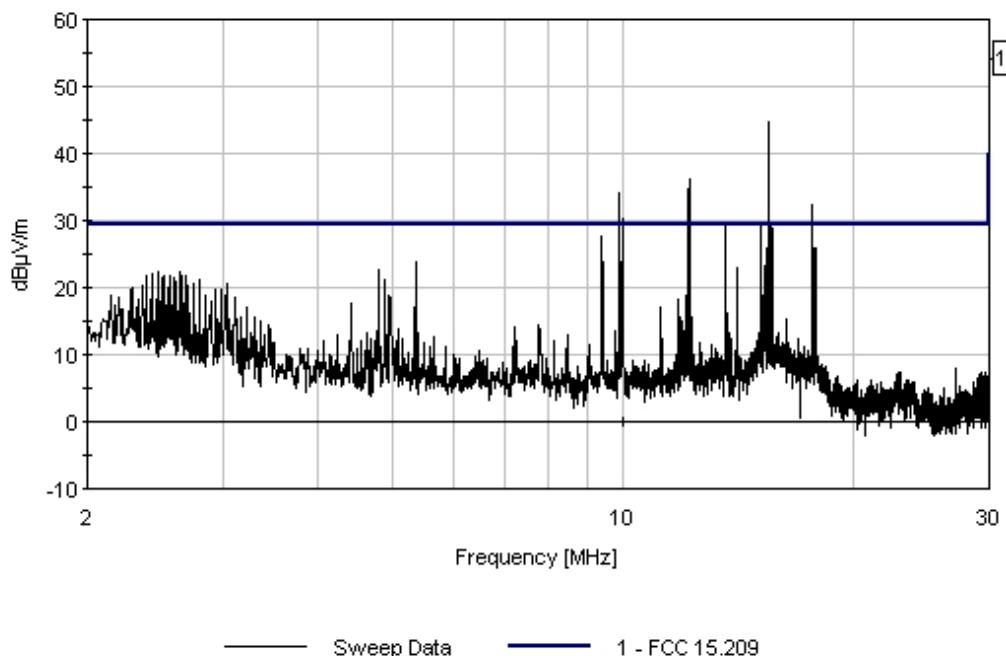
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 3. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.800M	18.1	+0.2	+0.3	+7.4	-19.1	+0.0	6.8	29.5	-22.7	Paral
2	23.550M	17.3	+0.2	+0.3	+7.2	-19.1	+0.0	5.9	29.5	-23.6	Paral
3	21.080M	16.6	+0.2	+0.3	+7.8	-19.1	+0.0	5.8	29.5	-23.7	Paral
4	29.950M	19.1	+0.3	+0.3	+5.0	-19.1	+0.0	5.6	29.5	-23.9	Paral
5	29.050M	18.8	+0.3	+0.3	+5.3	-19.1	+0.0	5.6	29.5	-24.0	Paral
6	25.950M	16.5	+0.2	+0.3	+6.5	-19.1	+0.0	4.4	29.5	-25.1	Paral
7	27.900M	16.4	+0.3	+0.3	+5.8	-19.1	+0.0	3.7	29.5	-25.8	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 12:35:32 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 206 Parallel
Underground Site 3 Position 3. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:39:22
 Equipment: **BPL MV Gateway** Sequence#: 207
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 3. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

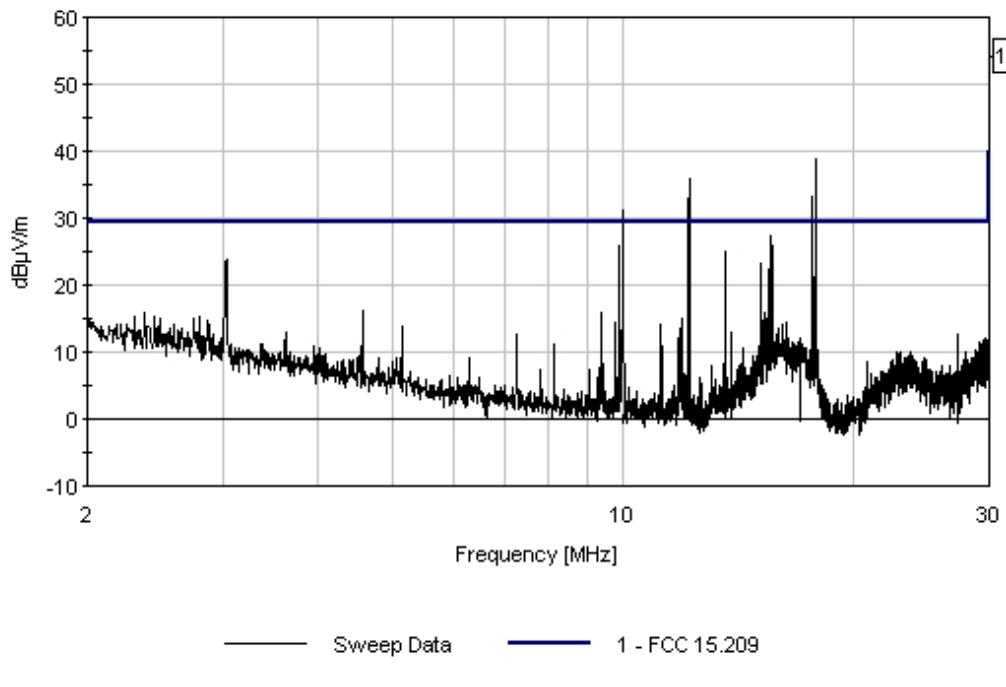
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	16.130M	23.0	+0.2	+0.2	+8.5	-19.1	+0.0	12.8	29.5	-16.7	Perpe
2	29.980M	25.9	+0.3	+0.3	+5.0	-19.1	+0.0	12.4	29.5	-17.1	Perpe
3	16.910M	22.6	+0.2	+0.2	+8.4	-19.1	+0.0	12.3	29.5	-17.2	Perpe
4	14.990M	20.5	+0.2	+0.2	+8.6	-19.1	+0.0	10.4	29.5	-19.1	Perpe
5	22.830M	21.4	+0.2	+0.3	+7.4	-19.1	+0.0	10.2	29.5	-19.3	Perpe
6	28.880M	22.6	+0.3	+0.3	+5.4	-19.1	+0.0	9.5	29.5	-20.0	Perpe
7	24.850M	20.9	+0.2	+0.3	+6.9	-19.1	+0.0	9.2	29.5	-20.3	Perpe

8	24.030M	20.0	+0.2	+0.3	+7.1	-19.1	+0.0	8.5	29.5	-21.0	Perpe
9	26.650M	20.0	+0.2	+0.3	+6.2	-19.1	+0.0	7.6	29.5	-21.9	Perpe
10	21.400M	17.8	+0.2	+0.3	+7.7	-19.1	+0.0	6.9	29.5	-22.6	Perpe
11	18.140M	14.7	+0.2	+0.3	+8.3	-19.1	+0.0	4.4	29.5	-25.1	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 12:39:22 Corinex WO#: 84818
 FCC 15.209 Test Distance: 10 Meters Sequence#: 207 Perpendicular
 Underground Site 3 Position 3. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:28:47
 Equipment: **BPL MV Gateway** Sequence #: 204
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

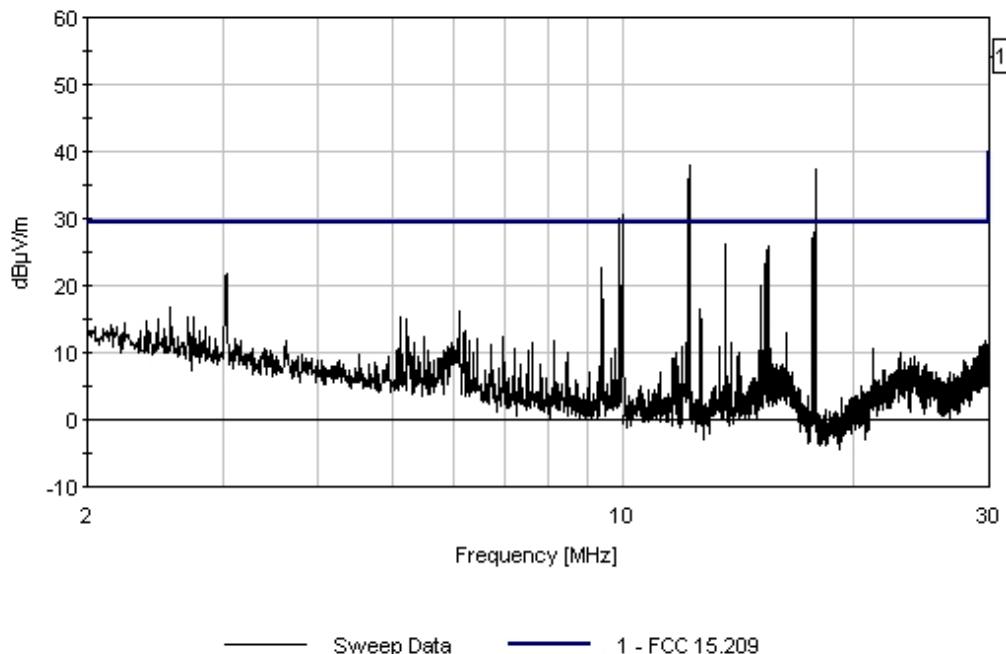
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 4. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	25.0	+0.3	+0.3	+5.0	-19.1	+0.0	11.5	29.5	-18.0	Perpe
2	28.900M	23.0	+0.3	+0.3	+5.4	-19.1	+0.0	9.9	29.5	-19.7	Perpe
3	23.930M	21.0	+0.2	+0.3	+7.1	-19.1	+0.0	9.5	29.5	-20.0	Perpe
4	22.780M	20.6	+0.2	+0.3	+7.4	-19.1	+0.0	9.4	29.5	-20.1	Perpe
5	27.330M	19.7	+0.2	+0.3	+6.0	-19.1	+0.0	7.1	29.5	-22.4	Perpe
6	24.850M	18.6	+0.2	+0.3	+6.9	-19.1	+0.0	6.9	29.5	-22.6	Perpe
7	25.880M	18.3	+0.2	+0.3	+6.5	-19.1	+0.0	6.2	29.5	-23.3	Perpe
8	21.130M	16.8	+0.2	+0.3	+7.8	-19.1	+0.0	6.0	29.5	-23.5	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 12:28:47 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 204 Perpendicular
Underground Site 3 Position 4. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:33:05
 Equipment: **BPL MV Gateway** Sequence#: 205
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

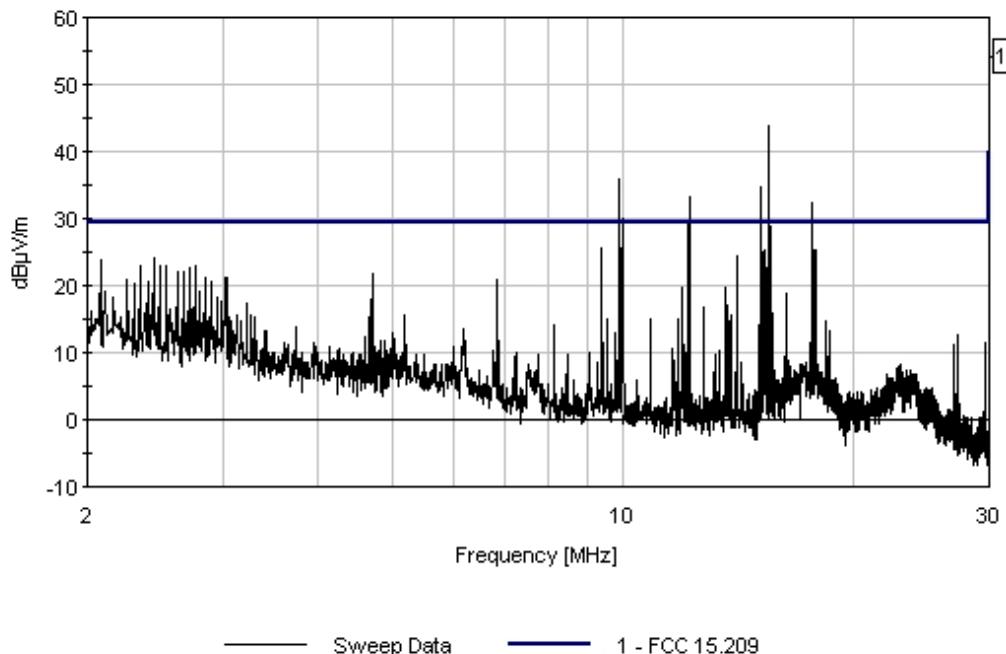
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 4. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.800M	18.6	+0.2	+0.3	+7.4	-19.1	+0.0	7.4	29.5	-22.1	Paral
2	23.680M	17.9	+0.2	+0.3	+7.2	-19.1	+0.0	6.5	29.5	-23.0	Paral
3	22.080M	16.1	+0.2	+0.3	+7.6	-19.1	+0.0	5.0	29.5	-24.5	Paral
4	24.550M	14.9	+0.2	+0.3	+7.0	-19.1	+0.0	3.3	29.5	-26.2	Paral
5	25.300M	13.7	+0.2	+0.3	+6.8	-19.1	+0.0	1.9	29.5	-27.6	Paral
6	21.380M	10.3	+0.2	+0.3	+7.7	-19.1	+0.0	-0.6	29.5	-30.1	Paral
7	29.150M	10.1	+0.3	+0.3	+5.3	-19.1	+0.0	-3.2	29.5	-32.7	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 12:33:05 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 205 Parallel
Underground Site 3 Position 4. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:23:23
 Equipment: **BPL MV Gateway** Sequence#: 202
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

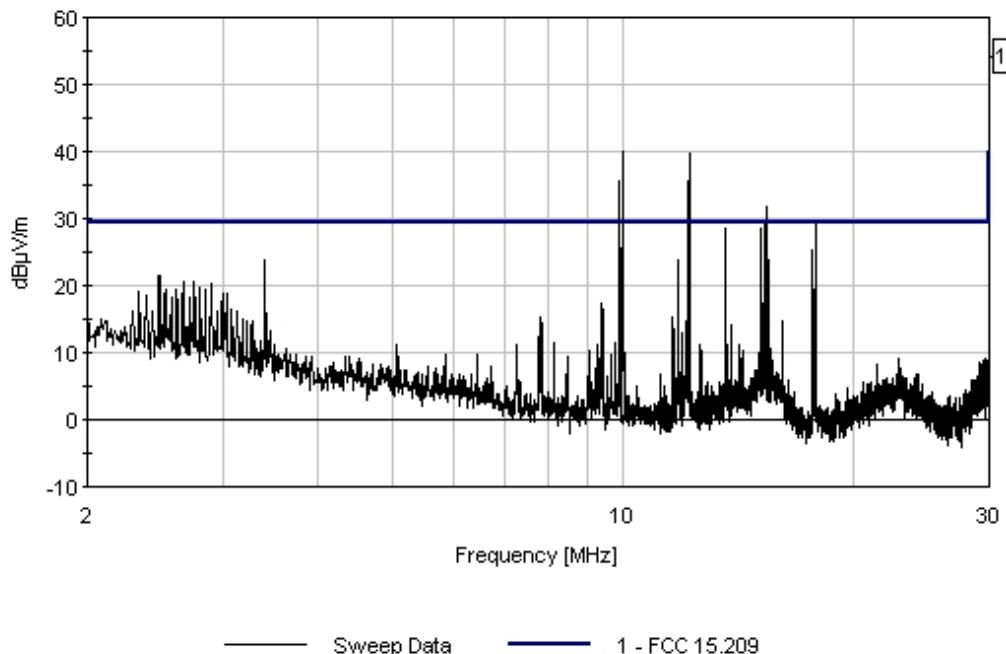
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 5. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.				Test Distance: 10 Meters					
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	22.2	+0.3	+0.3	+5.0	-19.1	+0.0	8.7	29.5	-20.8	Perpe
2	22.980M	19.1	+0.2	+0.3	+7.4	-19.1	+0.0	7.8	29.5	-21.7	Perpe
3	29.230M	20.2	+0.3	+0.3	+5.3	-19.1	+0.0	7.0	29.5	-22.5	Perpe
4	23.930M	18.1	+0.2	+0.3	+7.1	-19.1	+0.0	6.6	29.5	-22.9	Perpe
5	21.450M	17.0	+0.2	+0.3	+7.7	-19.1	+0.0	6.1	29.5	-23.4	Perpe
6	27.830M	17.4	+0.3	+0.3	+5.8	-19.1	+0.0	4.7	29.5	-24.8	Perpe
7	24.900M	15.9	+0.2	+0.3	+6.9	-19.1	+0.0	4.2	29.5	-25.3	Perpe
8	26.580M	14.8	+0.2	+0.3	+6.3	-19.1	+0.0	2.5	29.5	-27.0	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 12:23:23 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 202 Perpendicular
Underground Site 3 Position 5. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:25:51
 Equipment: **BPL MV Gateway** Sequence#: 203
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

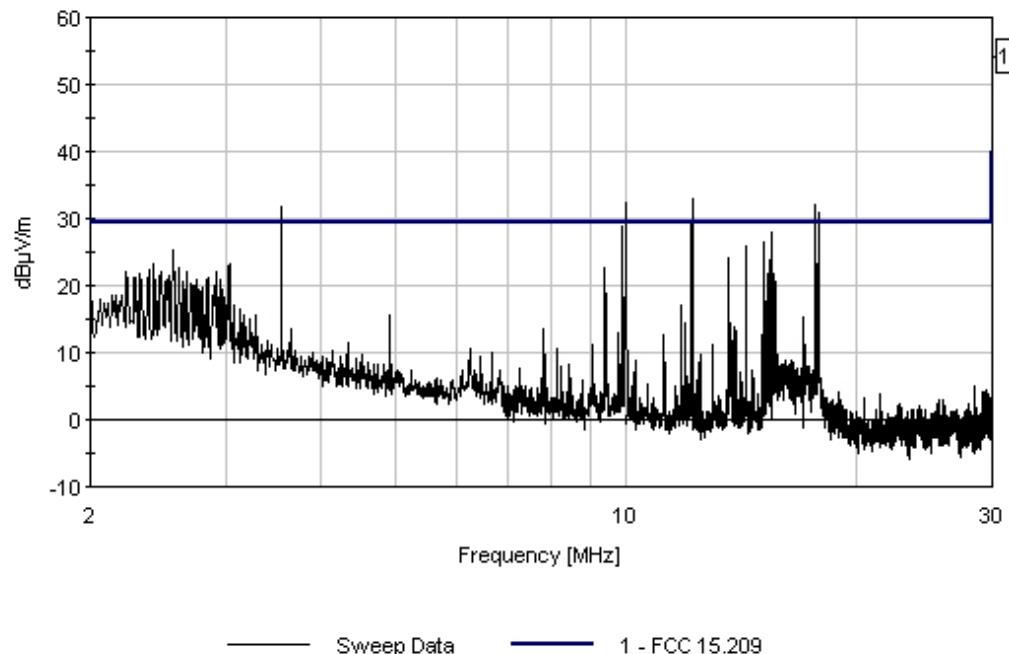
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 5. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	27.977M	16.6	+0.3	+0.3	+5.7	-19.1	+0.0	3.8	29.5	-25.7	Paral
2	29.390M	16.8	+0.3	+0.3	+5.2	-19.1	+0.0	3.5	29.5	-26.0	Paral
3	26.699M	14.8	+0.2	+0.3	+6.2	-19.1	+0.0	2.4	29.5	-27.2	Paral
4	27.183M	14.5	+0.2	+0.3	+6.0	-19.1	+0.0	1.9	29.5	-27.6	Paral
5	28.887M	14.8	+0.3	+0.3	+5.4	-19.1	+0.0	1.7	29.5	-27.8	Paral
6	28.277M	14.3	+0.3	+0.3	+5.6	-19.1	+0.0	1.4	29.5	-28.1	Paral
7	29.845M	14.1	+0.3	+0.3	+5.1	-19.1	+0.0	0.7	29.5	-28.8	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 12:25:51 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 203 Parallel
Underground Site 3 Position 5. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:17:43
 Equipment: **BPL MV Gateway** Sequence#: 200
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

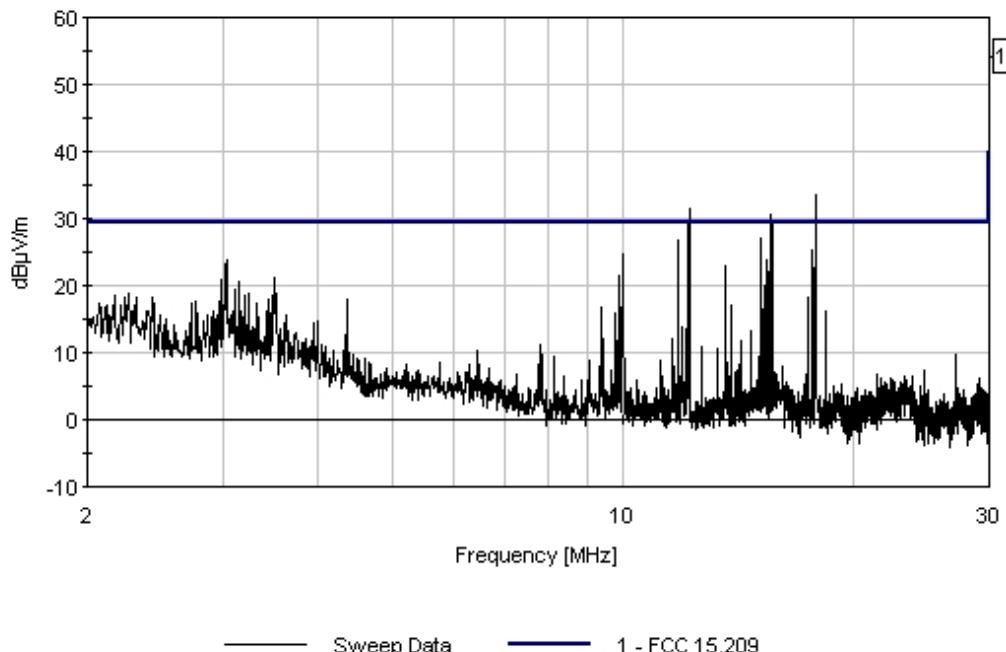
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 6. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	24.750M	17.4	+0.2	+0.3	+7.0	-19.1	+0.0	5.8	29.5	-23.7	Paral
2	23.730M	16.0	+0.2	+0.3	+7.2	-19.1	+0.0	4.6	29.5	-24.9	Paral
3	29.200M	17.2	+0.3	+0.3	+5.3	-19.1	+0.0	4.0	29.5	-25.5	Paral
4	27.630M	16.1	+0.3	+0.3	+5.9	-19.1	+0.0	3.5	29.5	-26.0	Paral
5	22.000M	14.3	+0.2	+0.3	+7.6	-19.1	+0.0	3.3	29.5	-26.2	Paral
6	26.350M	14.0	+0.2	+0.3	+6.4	-19.1	+0.0	1.8	29.5	-27.7	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 12:17:43 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 200 Parallel
Underground Site 3 Position 6. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:19:53
 Equipment: **BPL MV Gateway** Sequence #: 201
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

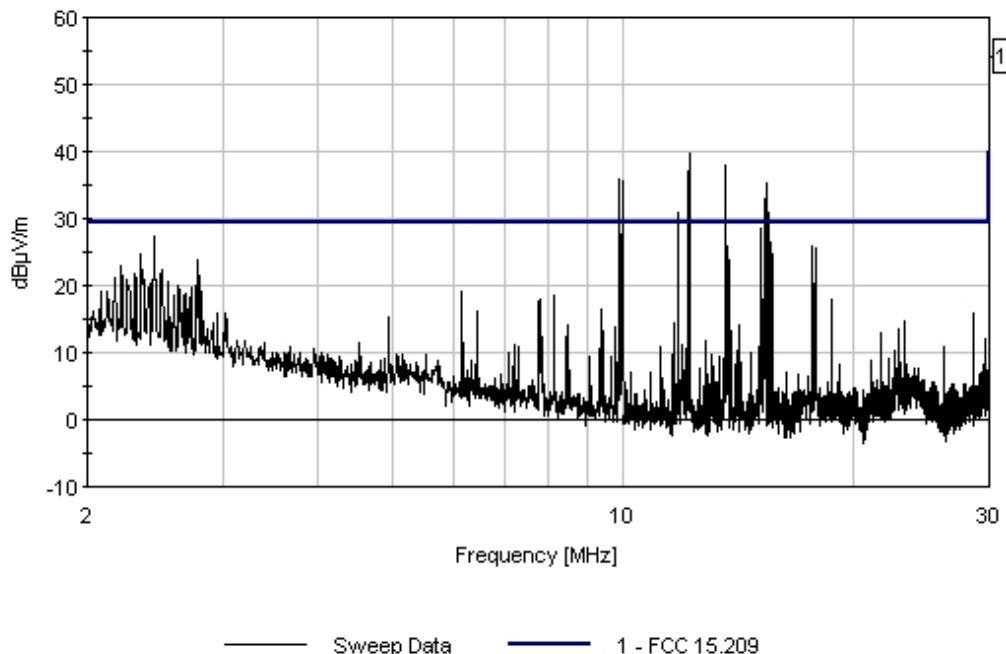
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 6. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.530M	19.4	+0.2	+0.3	+7.5	-19.1	+0.0	8.3	29.5	-21.2	Perpe
2	28.900M	19.3	+0.3	+0.3	+5.4	-19.1	+0.0	6.2	29.5	-23.4	Perpe
3	29.700M	19.1	+0.3	+0.3	+5.1	-19.1	+0.0	5.7	29.5	-23.8	Perpe
4	25.030M	16.5	+0.2	+0.3	+6.9	-19.1	+0.0	4.8	29.5	-24.7	Perpe
5	23.850M	15.9	+0.2	+0.3	+7.2	-19.1	+0.0	4.5	29.5	-25.1	Perpe
6	27.050M	15.7	+0.2	+0.3	+6.1	-19.1	+0.0	3.2	29.5	-26.3	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 12:19:53 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 201 Perpendicular
Underground Site 3 Position 6. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:13:37
 Equipment: **BPL MV Gateway** Sequence#: 198
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

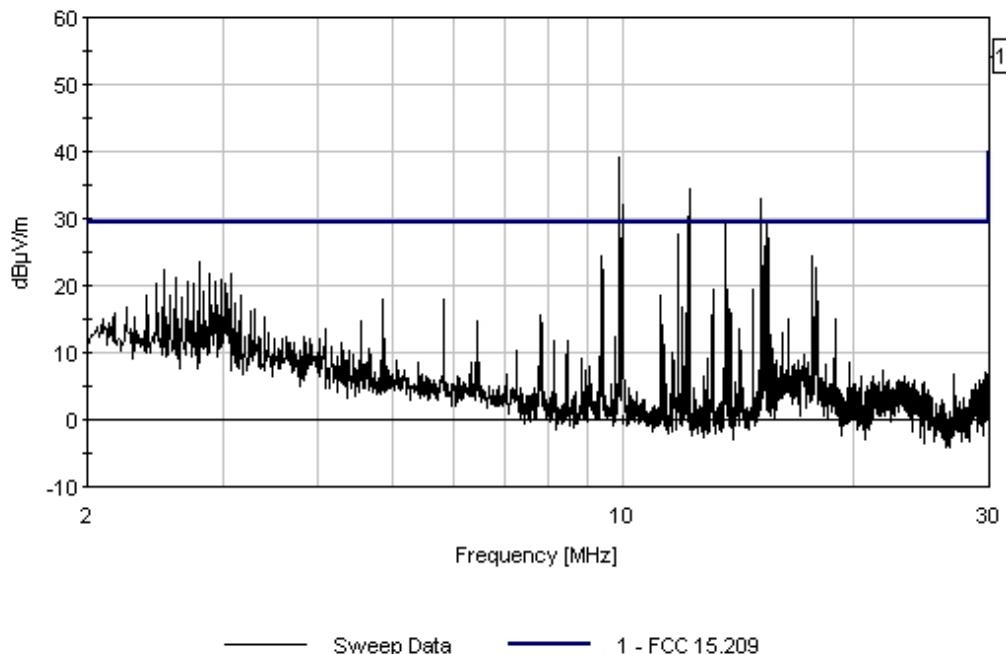
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 7. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.230M	17.4	+0.2	+0.3	+7.5	-19.1	+0.0	6.3	29.5	-23.3	Perpe
2	29.930M	18.3	+0.3	+0.3	+5.0	-19.1	+0.0	4.8	29.5	-24.7	Perpe
3	28.930M	17.4	+0.3	+0.3	+5.4	-19.1	+0.0	4.3	29.5	-25.2	Perpe
4	24.550M	15.7	+0.2	+0.3	+7.0	-19.1	+0.0	4.1	29.5	-25.4	Perpe
5	23.780M	15.3	+0.2	+0.3	+7.2	-19.1	+0.0	3.9	29.5	-25.6	Perpe
6	25.600M	14.3	+0.2	+0.3	+6.7	-19.1	+0.0	2.4	29.5	-27.2	Perpe
7	27.780M	14.7	+0.3	+0.3	+5.8	-19.1	+0.0	2.0	29.5	-27.5	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 12:13:37 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 198 Perpendicular
Underground Site 3 Position 7. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:15:45
 Equipment: **BPL MV Gateway** Sequence#: 199
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

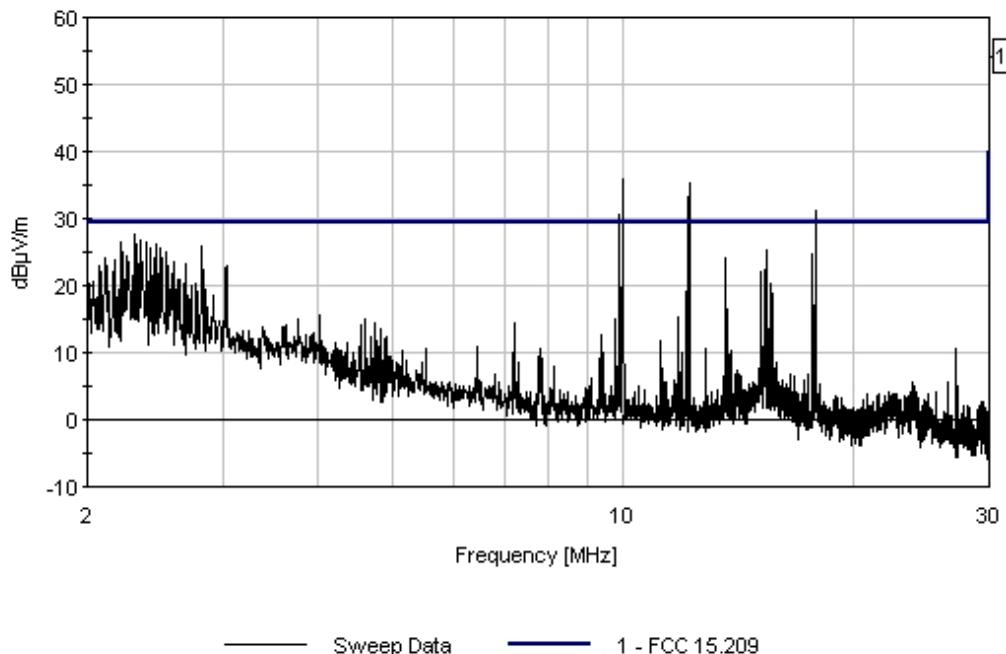
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 7. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.930M	16.8	+0.2	+0.3	+7.1	-19.1	+0.0	5.3	29.5	-24.2	Paral
2	22.030M	15.7	+0.2	+0.3	+7.6	-19.1	+0.0	4.7	29.5	-24.8	Paral
3	22.650M	15.0	+0.2	+0.3	+7.4	-19.1	+0.0	3.8	29.5	-25.7	Paral
4	25.180M	14.6	+0.2	+0.3	+6.8	-19.1	+0.0	2.8	29.5	-26.7	Paral
5	28.000M	15.4	+0.3	+0.3	+5.7	-19.1	+0.0	2.6	29.5	-26.9	Paral
6	29.650M	14.8	+0.3	+0.3	+5.1	-19.1	+0.0	1.4	29.5	-28.1	Paral
7	28.500M	11.2	+0.3	+0.3	+5.5	-19.1	+0.0	-1.8	29.5	-31.3	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 12:15:45 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 199 Parallel
Underground Site 3 Position 7. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:08:36 PM
 Equipment: **BPL MV Gateway** Sequence#: 196
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

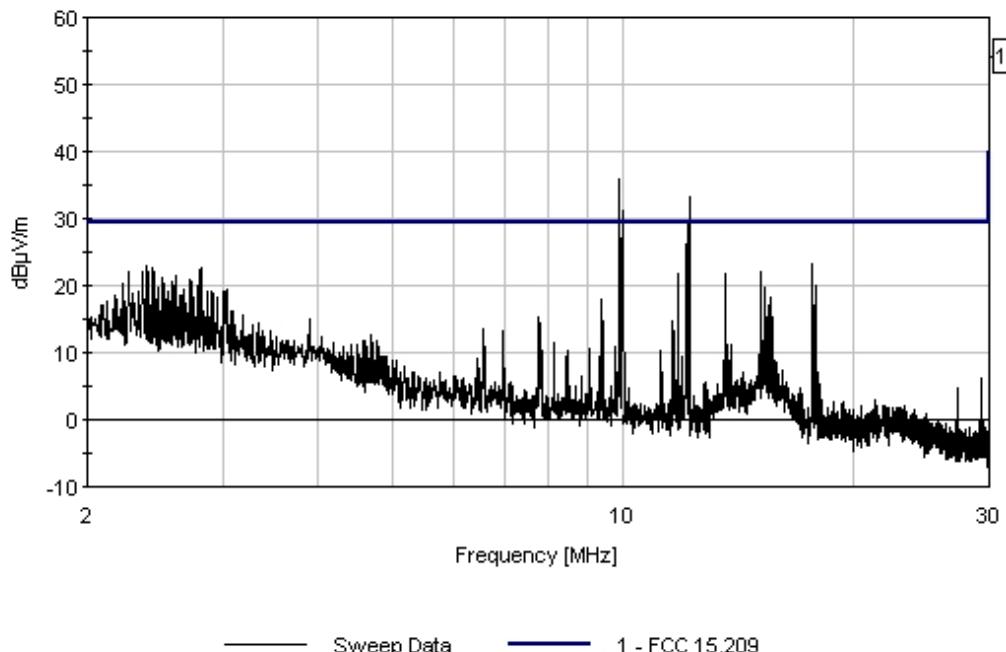
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 8. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

Measurement Data: Reading listed by margin. Test Distance: 10 Meters											
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	19.626M	11.3	+0.2	+0.3	+8.1	-19.1	+0.0	0.8	29.5	-28.7	Paral
2	24.771M	10.9	+0.2	+0.3	+6.9	-19.1	+0.0	-0.8	29.5	-30.3	Paral
3	26.580M	11.1	+0.2	+0.3	+6.3	-19.1	+0.0	-1.2	29.5	-30.7	Paral
4	29.515M	11.9	+0.3	+0.3	+5.2	-19.1	+0.0	-1.4	29.5	-30.9	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 12:08:36 PM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 196 Parallel
Underground Site 3 Position 8. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 12:11:24
 Equipment: **BPL MV Gateway** Sequence#: 197
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

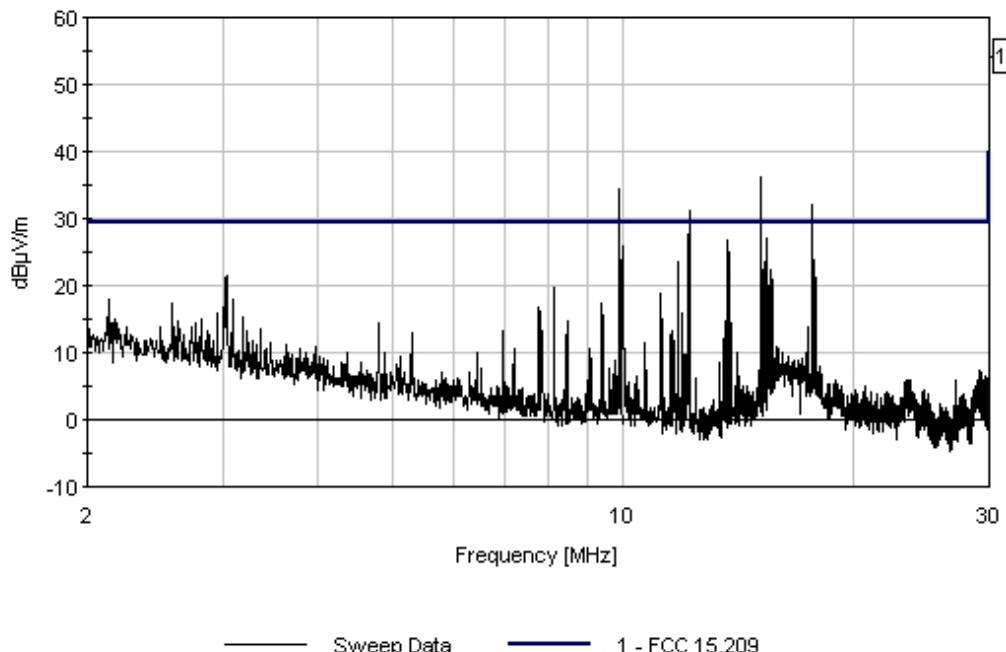
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 8. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.200M	19.7	+0.3	+0.3	+5.3	-19.1	+0.0	6.5	29.5	-23.0	Perpe
2	23.900M	15.3	+0.2	+0.3	+7.1	-19.1	+0.0	3.8	29.5	-25.7	Perpe
3	22.230M	13.4	+0.2	+0.3	+7.5	-19.1	+0.0	2.3	29.5	-27.2	Perpe
4	23.180M	13.2	+0.2	+0.3	+7.3	-19.1	+0.0	1.9	29.5	-27.6	Perpe
5	24.700M	13.2	+0.2	+0.3	+7.0	-19.1	+0.0	1.6	29.5	-27.9	Perpe
6	28.000M	13.9	+0.3	+0.3	+5.7	-19.1	+0.0	1.1	29.5	-28.4	Perpe
7	25.100M	11.8	+0.2	+0.3	+6.9	-19.1	+0.0	0.1	29.5	-29.5	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 12:11:24 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 197 Perpendicular
Underground Site 3 Position 8. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:33:30
 Equipment: **BPL MV Gateway** Sequence#: 194
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

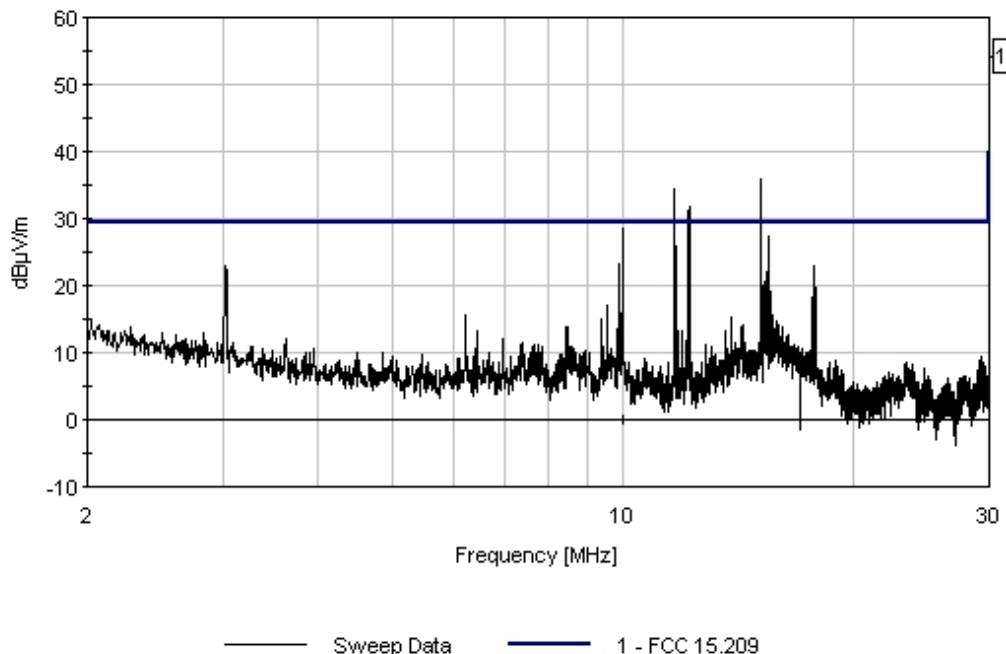
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 9. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.430M	22.1	+0.3	+0.3	+5.2	-19.1	+0.0	8.8	29.5	-20.7	Perpe
2	28.000M	19.2	+0.3	+0.3	+5.7	-19.1	+0.0	6.4	29.5	-23.1	Perpe
3	23.730M	17.8	+0.2	+0.3	+7.2	-19.1	+0.0	6.4	29.5	-23.1	Perpe
4	21.480M	17.1	+0.2	+0.3	+7.7	-19.1	+0.0	6.2	29.5	-23.3	Perpe
5	22.350M	17.3	+0.2	+0.3	+7.5	-19.1	+0.0	6.2	29.5	-23.4	Perpe
6	26.650M	18.1	+0.2	+0.3	+6.2	-19.1	+0.0	5.7	29.5	-23.8	Perpe
7	25.030M	15.8	+0.2	+0.3	+6.9	-19.1	+0.0	4.1	29.5	-25.4	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 11:33:30 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 194 Perpendicular
Underground Site 3 Position 9. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:36:49
 Equipment: **BPL MV Gateway** Sequence#: 195
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

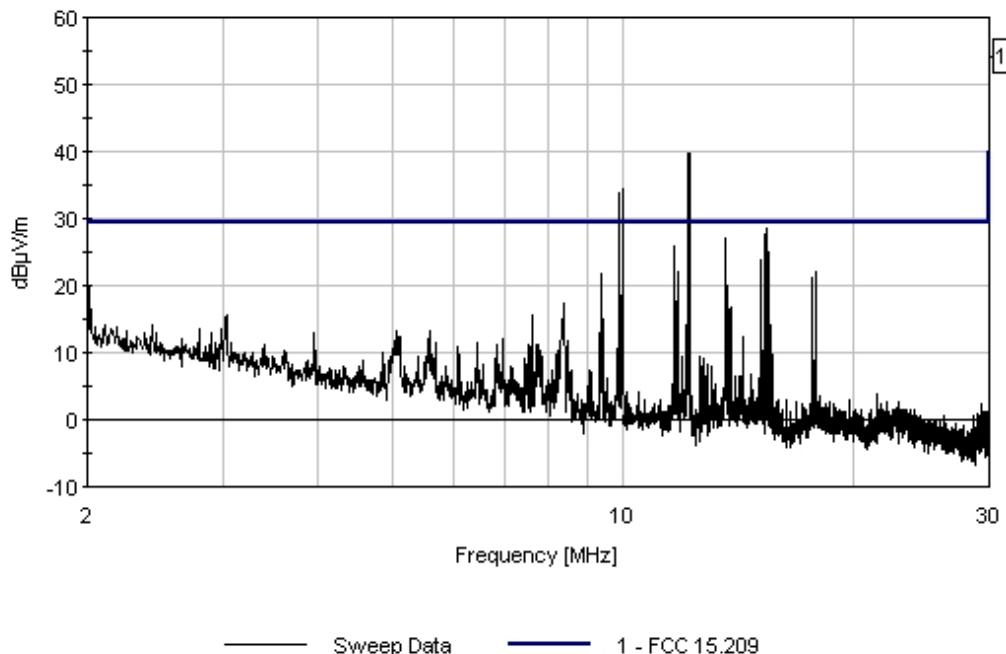
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 9. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.734M	14.6	+0.3	+0.3	+5.1	-19.1	+0.0	1.2	29.5	-28.3	Paral
2	29.240M	14.0	+0.3	+0.3	+5.3	-19.1	+0.0	0.8	29.5	-28.7	Paral
3	29.916M	13.4	+0.3	+0.3	+5.0	-19.1	+0.0	-0.1	29.5	-29.6	Paral
4	27.341M	12.2	+0.2	+0.3	+6.0	-19.1	+0.0	-0.4	29.5	-29.9	Paral
5	28.914M	12.3	+0.3	+0.3	+5.4	-19.1	+0.0	-0.8	29.5	-30.3	Paral
6	28.481M	11.3	+0.3	+0.3	+5.5	-19.1	+0.0	-1.7	29.5	-31.2	Paral
7	27.812M	10.7	+0.3	+0.3	+5.8	-19.1	+0.0	-2.0	29.5	-31.5	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 11:36:49 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 195 Parallel
Underground Site 3 Position 9. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:25:55
 Equipment: **BPL MV Gateway** Sequence#: 192
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

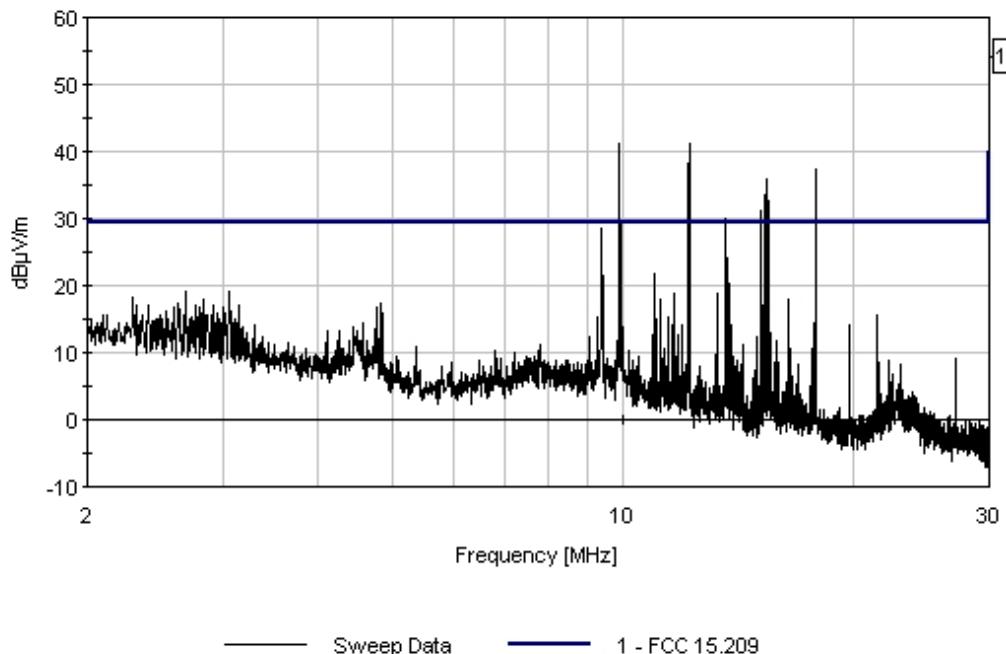
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 10. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.138M	15.2	+0.2	+0.3	+7.3	-19.1	+0.0	3.9	29.5	-25.6	Paral
2	23.688M	13.6	+0.2	+0.3	+7.2	-19.1	+0.0	2.2	29.5	-27.3	Paral
3	24.688M	13.3	+0.2	+0.3	+7.0	-19.1	+0.0	1.7	29.5	-27.8	Paral
4	22.175M	12.5	+0.2	+0.3	+7.5	-19.1	+0.0	1.4	29.5	-28.1	Paral
5	22.725M	12.6	+0.2	+0.3	+7.4	-19.1	+0.0	1.4	29.5	-28.1	Paral
6	24.263M	9.2	+0.2	+0.3	+7.1	-19.1	+0.0	-2.3	29.5	-31.8	Paral
7	21.675M	7.5	+0.2	+0.3	+7.7	-19.1	+0.0	-3.4	29.5	-32.9	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 11:25:55 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 192 Parallel
Underground Site 3 Position 10. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:29:14
 Equipment: **BPL MV Gateway** Sequence#: 193
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

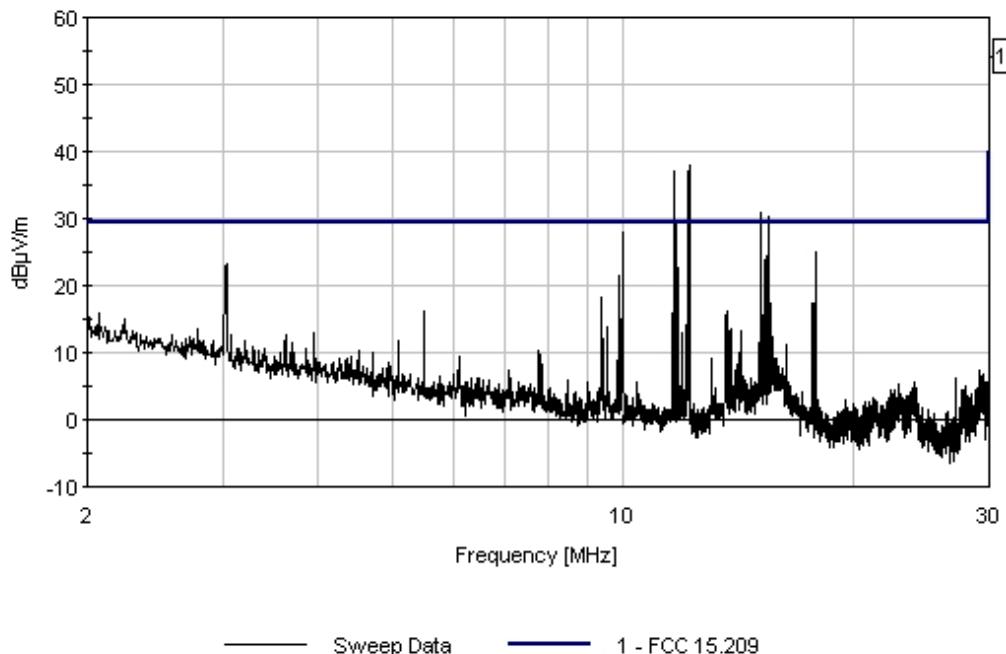
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 10. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.750M	16.9	+0.2	+0.3	+7.2	-19.1	+0.0	5.5	29.5	-24.0	Perpe
2	29.350M	18.6	+0.3	+0.3	+5.2	-19.1	+0.0	5.2	29.5	-24.3	Perpe
3	22.650M	15.8	+0.2	+0.3	+7.4	-19.1	+0.0	4.6	29.5	-24.9	Perpe
4	27.630M	16.7	+0.3	+0.3	+5.9	-19.1	+0.0	4.1	29.5	-25.4	Perpe
5	24.250M	14.7	+0.2	+0.3	+7.1	-19.1	+0.0	3.2	29.5	-26.3	Perpe
6	25.330M	13.9	+0.2	+0.3	+6.8	-19.1	+0.0	2.1	29.5	-27.4	Perpe
7	26.530M	11.8	+0.2	+0.3	+6.3	-19.1	+0.0	-0.6	29.5	-30.1	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 11:29:14 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 193 Perpendicular
Underground Site 3 Position 10. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:19:39
 Equipment: **BPL MV Gateway** Sequence #: 190
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

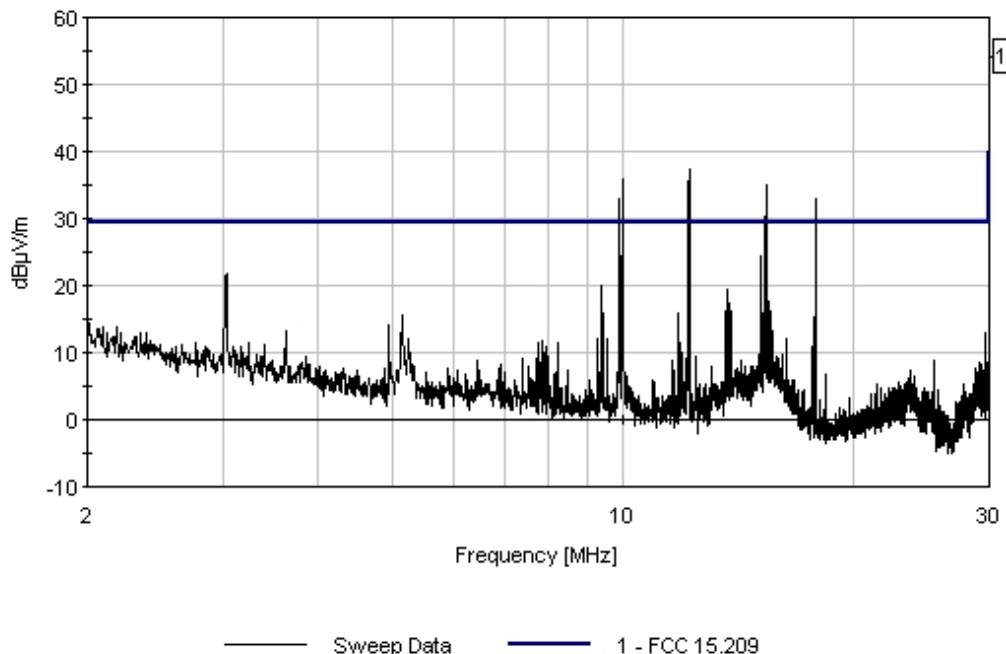
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 11. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.				Test Distance: 10 Meters					
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.950M	22.9	+0.3	+0.3	+5.0	-19.1	+0.0	9.4	29.5	-20.1	Perpe
2	23.730M	17.5	+0.2	+0.3	+7.2	-19.1	+0.0	6.1	29.5	-23.4	Perpe
3	28.750M	19.0	+0.3	+0.3	+5.4	-19.1	+0.0	5.9	29.5	-23.6	Perpe
4	22.350M	16.9	+0.2	+0.3	+7.5	-19.1	+0.0	5.8	29.5	-23.8	Perpe
5	27.430M	14.6	+0.3	+0.3	+5.9	-19.1	+0.0	2.0	29.5	-27.5	Perpe
6	25.330M	13.7	+0.2	+0.3	+6.8	-19.1	+0.0	1.8	29.5	-27.7	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 11:19:39 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 190 Perpendicular
Underground Site 3 Position 11. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:22:38
 Equipment: **BPL MV Gateway** Sequence#: 191
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

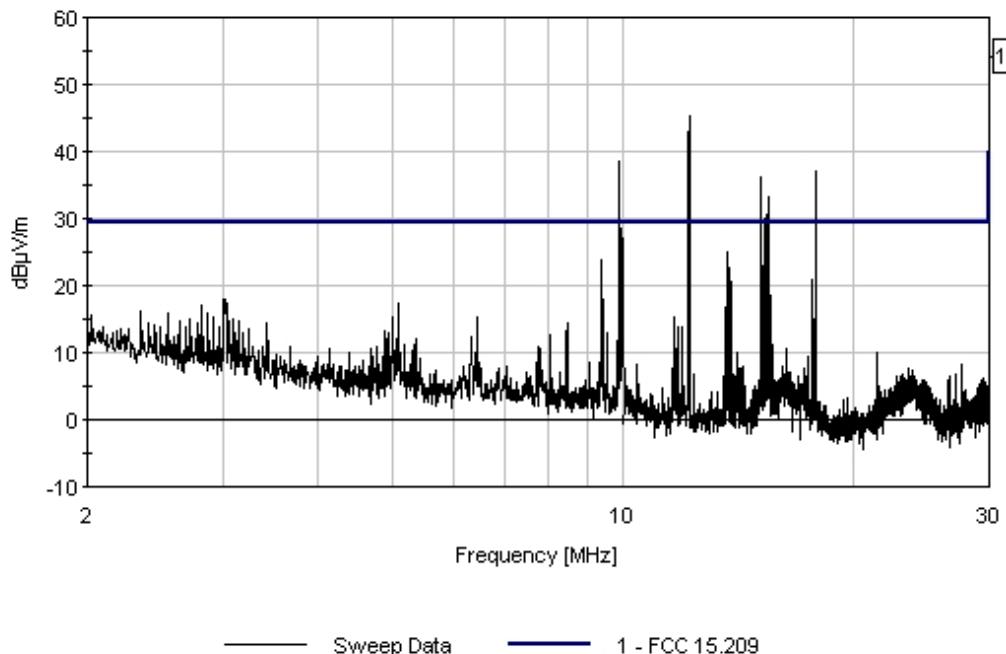
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 11. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	22.980M	17.0	+0.2	+0.3	+7.4	-19.1	+0.0	5.8	29.5	-23.7	Paral
2	29.180M	18.7	+0.3	+0.3	+5.3	-19.1	+0.0	5.5	29.5	-24.0	Paral
3	24.050M	15.5	+0.2	+0.3	+7.1	-19.1	+0.0	4.0	29.5	-25.5	Paral
4	27.800M	14.8	+0.3	+0.3	+5.8	-19.1	+0.0	2.1	29.5	-27.4	Paral
5	21.980M	12.8	+0.2	+0.3	+7.6	-19.1	+0.0	1.8	29.5	-27.7	Paral
6	26.430M	13.6	+0.2	+0.3	+6.3	-19.1	+0.0	1.3	29.5	-28.2	Paral
7	25.100M	13.0	+0.2	+0.3	+6.9	-19.1	+0.0	1.3	29.5	-28.2	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 11:22:38 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 191 Parallel
Underground Site 3 Position 11. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:12:02
 Equipment: **BPL MV Gateway** Sequence#: 188
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

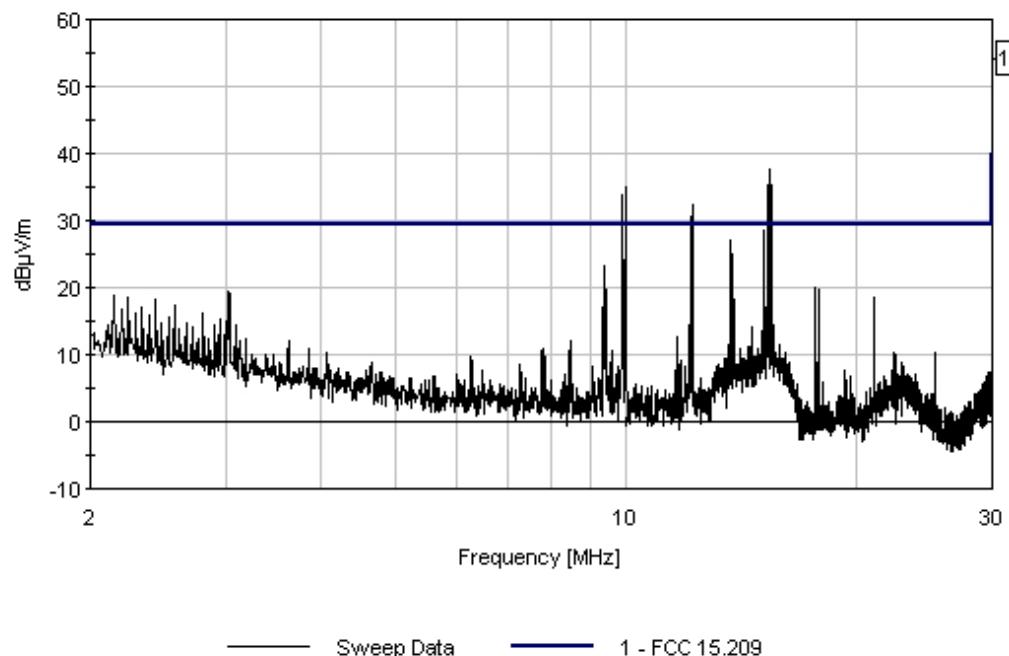
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 12. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	22.7	+0.3	+0.3	+5.0	-19.1	+0.0	9.2	29.5	-20.4	Perpe
2	23.450M	18.4	+0.2	+0.3	+7.2	-19.1	+0.0	7.0	29.5	-22.5	Perpe
3	22.050M	16.2	+0.2	+0.3	+7.6	-19.1	+0.0	5.2	29.5	-24.3	Perpe
4	28.750M	16.2	+0.3	+0.3	+5.4	-19.1	+0.0	3.1	29.5	-26.4	Perpe
5	24.530M	14.4	+0.2	+0.3	+7.0	-19.1	+0.0	2.8	29.5	-26.7	Perpe
6	27.550M	15.4	+0.3	+0.3	+5.9	-19.1	+0.0	2.8	29.5	-26.8	Perpe
7	26.250M	11.5	+0.2	+0.3	+6.4	-19.1	+0.0	-0.8	29.5	-30.3	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 11:12:02 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 188 Perpendicular
Underground Site 3 Position 12. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 11:16:02
 Equipment: **BPL MV Gateway** Sequence#: 189
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

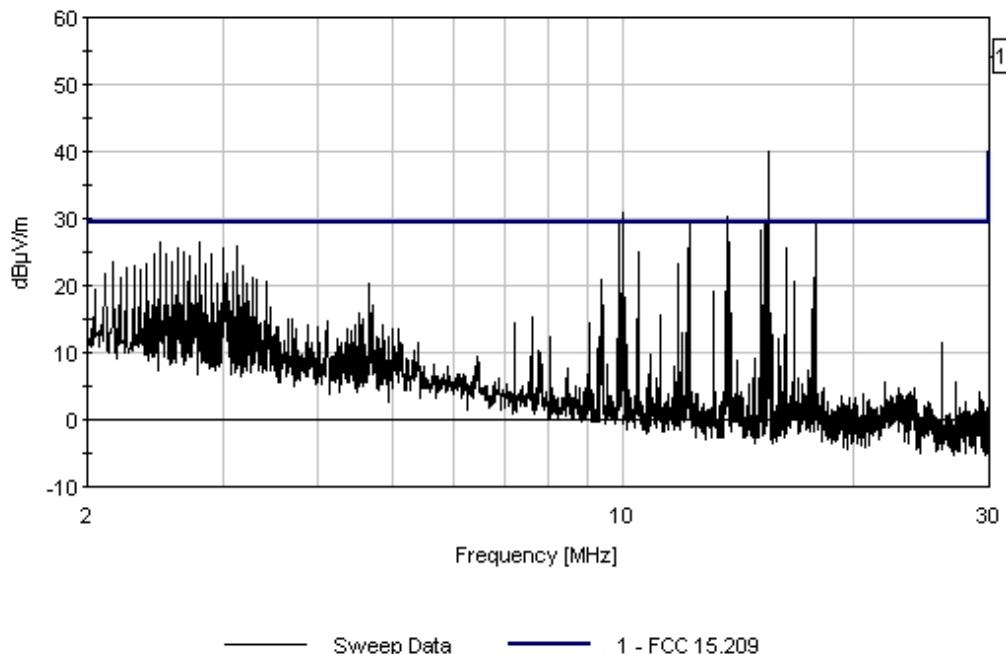
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 12. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.				Test Distance: 10 Meters					
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	27.999M	14.9	+0.3	+0.3	+5.7	-19.1	+0.0	2.1	29.5	-27.4	Paral
2	29.346M	14.7	+0.3	+0.3	+5.2	-19.1	+0.0	1.4	29.5	-28.1	Paral
3	28.596M	14.1	+0.3	+0.3	+5.5	-19.1	+0.0	1.1	29.5	-28.4	Paral
4	29.032M	14.0	+0.3	+0.3	+5.3	-19.1	+0.0	0.8	29.5	-28.7	Paral
5	27.547M	13.0	+0.3	+0.3	+5.9	-19.1	+0.0	0.4	29.5	-29.1	Paral
6	29.726M	12.7	+0.3	+0.3	+5.1	-19.1	+0.0	-0.7	29.5	-30.2	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 11:16:02 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 189 Parallel
Underground Site 3 Position 12. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:53:58
 Equipment: **BPL MV Gateway** Sequence#: 186
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

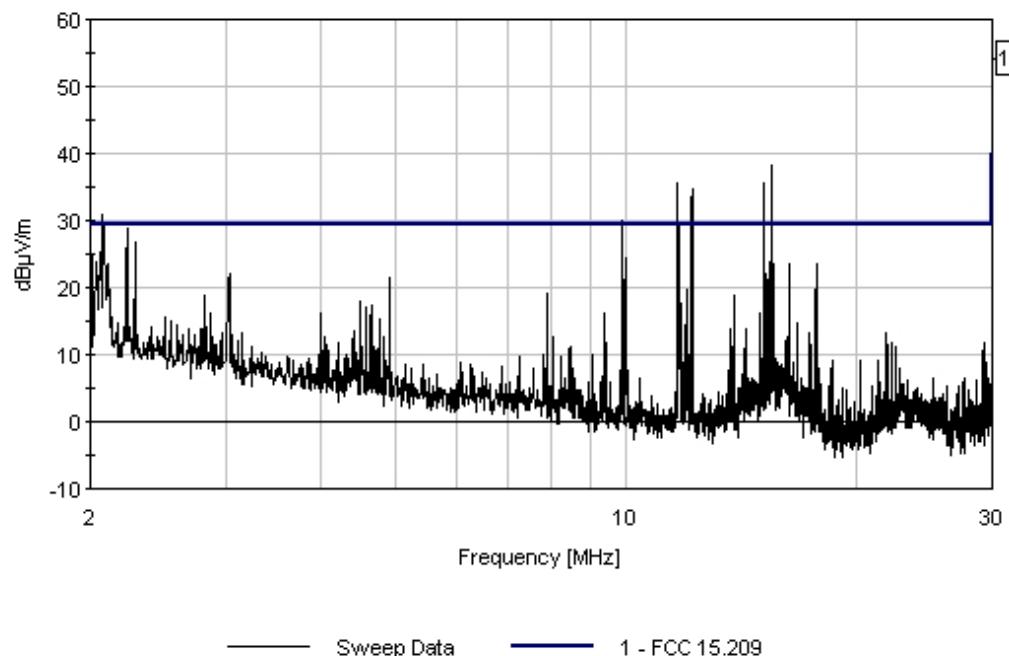
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 13. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.650M	18.9	+0.3	+0.3	+5.1	-19.1	+0.0	5.5	29.5	-24.0	Paral
2	22.800M	15.6	+0.2	+0.3	+7.4	-19.1	+0.0	4.4	29.5	-25.1	Paral
3	24.280M	15.4	+0.2	+0.3	+7.1	-19.1	+0.0	3.9	29.5	-25.6	Paral
4	27.780M	15.8	+0.3	+0.3	+5.8	-19.1	+0.0	3.1	29.5	-26.4	Paral
5	21.550M	13.0	+0.2	+0.3	+7.7	-19.1	+0.0	2.1	29.5	-27.5	Paral
6	28.600M	13.9	+0.3	+0.3	+5.5	-19.1	+0.0	0.9	29.5	-28.6	Paral
7	26.130M	12.3	+0.2	+0.3	+6.4	-19.1	+0.0	0.1	29.5	-29.4	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 10:53:58 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 186 Parallel
Underground Site 3 Position 13. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:59:53
 Equipment: **BPL MV Gateway** Sequence#: 187
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

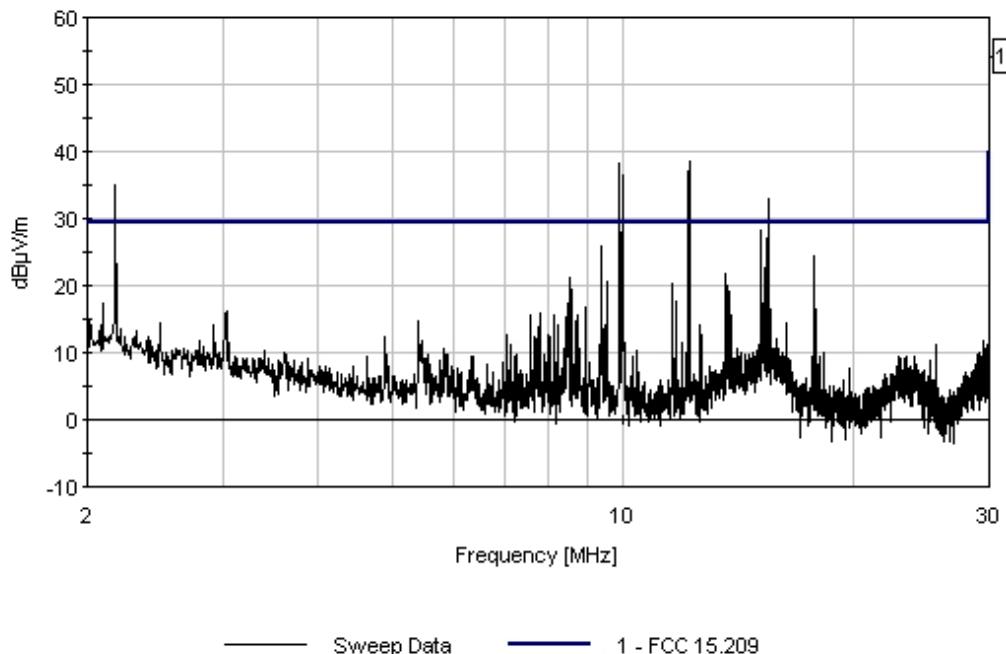
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 13. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.980M	23.8	+0.3	+0.3	+5.0	-19.1	+0.0	10.3	29.5	-19.2	Perpe
2	24.080M	19.9	+0.2	+0.3	+7.1	-19.1	+0.0	8.4	29.5	-21.1	Perpe
3	22.930M	19.1	+0.2	+0.3	+7.4	-19.1	+0.0	7.9	29.5	-21.6	Perpe
4	28.280M	20.1	+0.3	+0.3	+5.6	-19.1	+0.0	7.2	29.5	-22.3	Perpe
5	22.180M	17.6	+0.2	+0.3	+7.5	-19.1	+0.0	6.5	29.5	-23.0	Perpe
6	25.300M	16.7	+0.2	+0.3	+6.8	-19.1	+0.0	4.9	29.5	-24.6	Perpe
7	26.730M	16.4	+0.2	+0.3	+6.2	-19.1	+0.0	4.0	29.5	-25.5	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 10:59:53 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 187 Perpendicular
Underground Site 3 Position 13. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:41:53 AM
 Equipment: **BPL MV Gateway** Sequence#: 184
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 14. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

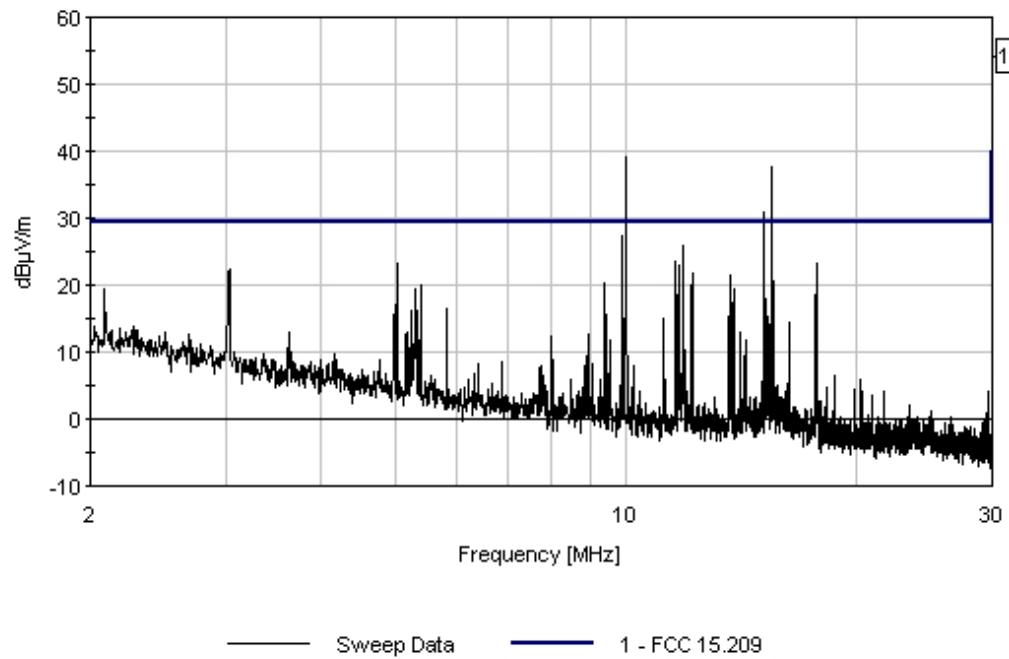
Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

Measurement Data: Reading listed by margin. **Test Distance: 10 Meters**

#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	19.847M	14.9	+0.2	+0.3	+8.1	-19.1	+0.0	4.4	29.5	-25.1	Paral
2	21.656M	15.0	+0.2	+0.3	+7.7	-19.1	+0.0	4.1	29.5	-25.4	Paral
3	29.717M	17.5	+0.3	+0.3	+5.1	-19.1	+0.0	4.1	29.5	-25.4	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 10:41:53 AM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 184 Parallel
Underground Site 3 Position 2. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:50:35
 Equipment: **BPL MV Gateway** Sequence#: 185
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

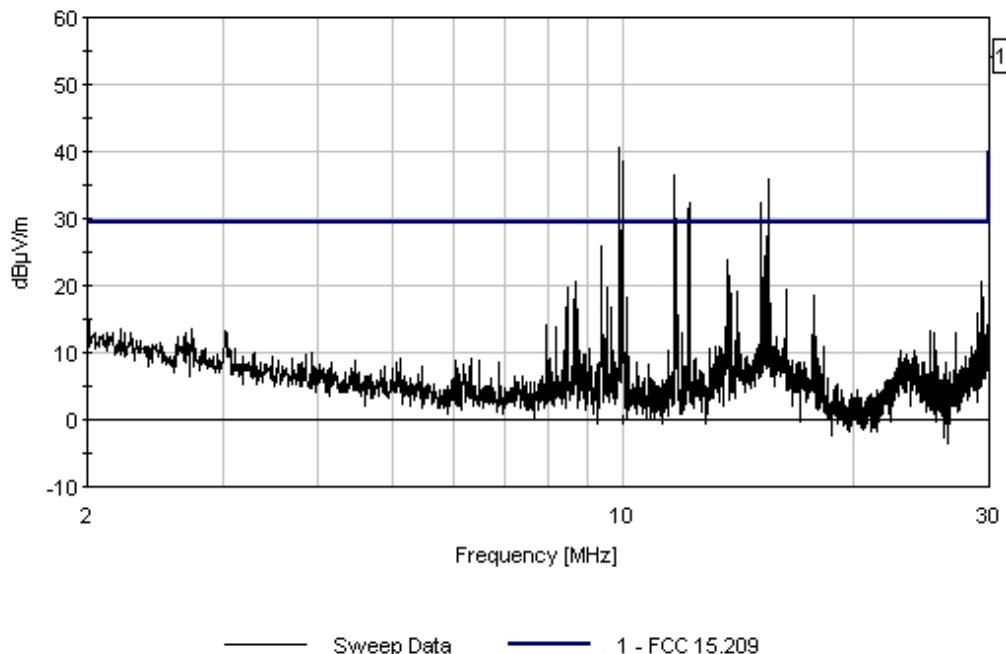
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 14. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.680M	26.6	+0.3	+0.3	+5.1	-19.1	+0.0	13.2	29.5	-16.3	Perpe
2	28.600M	24.0	+0.3	+0.3	+5.5	-19.1	+0.0	11.0	29.5	-18.5	Perpe
3	23.930M	20.8	+0.2	+0.3	+7.1	-19.1	+0.0	9.3	29.5	-20.2	Perpe
4	22.930M	20.1	+0.2	+0.3	+7.4	-19.1	+0.0	8.9	29.5	-20.6	Perpe
5	27.230M	19.4	+0.2	+0.3	+6.0	-19.1	+0.0	6.8	29.5	-22.7	Perpe
6	24.900M	17.7	+0.2	+0.3	+6.9	-19.1	+0.0	6.0	29.5	-23.5	Perpe
7	26.130M	18.0	+0.2	+0.3	+6.4	-19.1	+0.0	5.8	29.5	-23.8	Perpe
8	21.880M	16.2	+0.2	+0.3	+7.6	-19.1	+0.0	5.2	29.5	-24.3	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 10:50:35 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 185 Perpendicular
Underground Site 3 Position 2. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:05:37
 Equipment: **BPL MV Gateway** Sequence#: 176
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

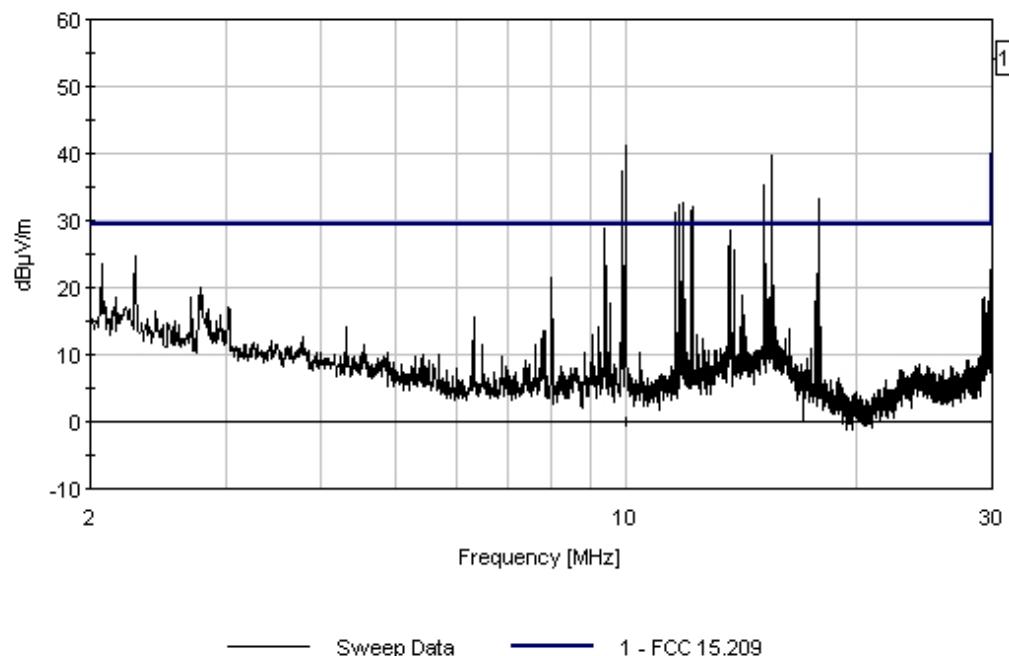
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 15. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.650M	23.0	+0.3	+0.3	+5.1	-19.1	+0.0	9.6	29.5	-19.9	Perpe
2	23.600M	19.1	+0.2	+0.3	+7.2	-19.1	+0.0	7.7	29.5	-21.8	Perpe
3	28.000M	20.3	+0.3	+0.3	+5.7	-19.1	+0.0	7.5	29.5	-22.0	Perpe
4	24.780M	17.5	+0.2	+0.3	+6.9	-19.1	+0.0	5.8	29.5	-23.7	Perpe
5	26.300M	16.6	+0.2	+0.3	+6.4	-19.1	+0.0	4.4	29.5	-25.1	Perpe
6	22.150M	14.3	+0.2	+0.3	+7.6	-19.1	+0.0	3.3	29.5	-26.2	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 10:05:37 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 176 Perpendicular
Underground Site 3 Position 15. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:10:16
 Equipment: **BPL MV Gateway** Sequence#: 177
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

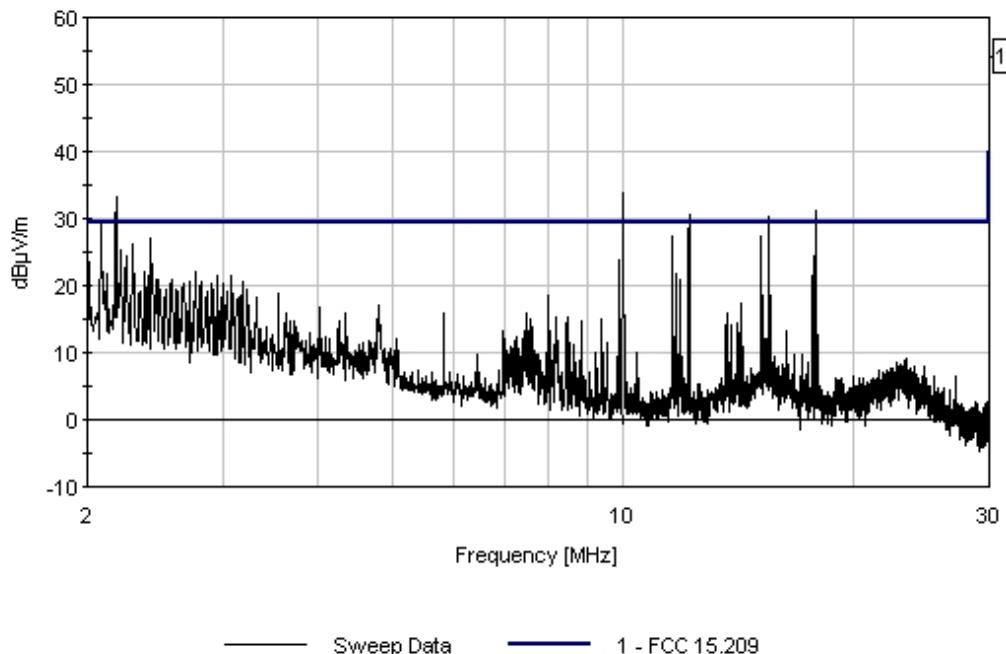
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 15. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.				Test Distance: 10 Meters					
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	23.230M	20.5	+0.2	+0.3	+7.3	-19.1	+0.0	9.2	29.5	-20.3	Paral
2	21.760M	16.4	+0.2	+0.3	+7.6	-19.1	+0.0	5.4	29.5	-24.1	Paral
3	24.740M	16.8	+0.2	+0.3	+7.0	-19.1	+0.0	5.2	29.5	-24.3	Paral
4	31.140M	13.6	+0.3	+0.3	+0.0	+0.0	+0.0	14.2	40.0	-25.8	Paral
5	27.220M	15.8	+0.2	+0.3	+6.0	-19.1	+0.0	3.2	29.5	-26.3	Paral
6	28.690M	14.9	+0.3	+0.3	+5.5	-19.1	+0.0	1.9	29.5	-27.6	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 10:10:16 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 177 Parallel
Underground Site 3 Position 15. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:12:26
 Equipment: **BPL MV Gateway** Sequence#: 178
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

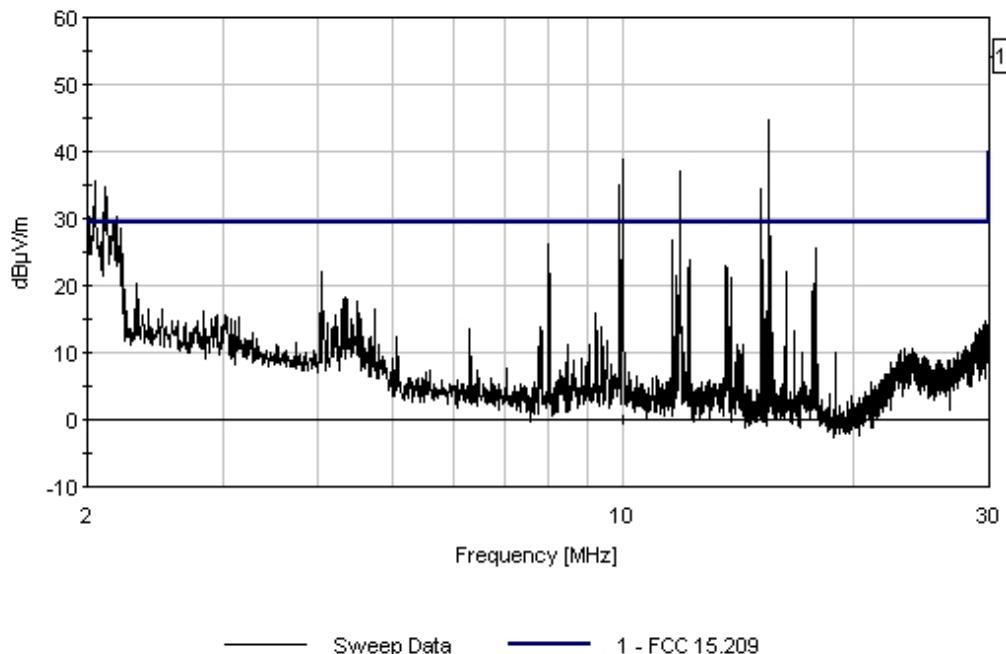
Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB. Test Position 16. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

#	Freq MHz	Reading listed by margin.					Test Distance: 10 Meters				
		Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	29.650M	27.5	+0.3	+0.3	+5.1	-19.1	+0.0	14.1	29.5	-15.4	Perpe
2	28.400M	24.3	+0.3	+0.3	+5.6	-19.1	+0.0	11.4	29.5	-18.1	Perpe
3	24.080M	21.7	+0.2	+0.3	+7.1	-19.1	+0.0	10.2	29.5	-19.3	Perpe
4	22.650M	20.2	+0.2	+0.3	+7.4	-19.1	+0.0	9.0	29.5	-20.5	Perpe
5	25.180M	20.4	+0.2	+0.3	+6.8	-19.1	+0.0	8.6	29.5	-20.9	Perpe
6	27.030M	21.1	+0.2	+0.3	+6.1	-19.1	+0.0	8.6	29.5	-20.9	Perpe
7	21.330M	16.7	+0.2	+0.3	+7.8	-19.1	+0.0	5.9	29.5	-23.6	Perpe

Underground Test Site #3 Date: 3/20/2006 Time: 10:12:26 Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 178 Perpendicular
Underground Site 3 Position 16. Medium Lines only. Notches off. Full power 2-30MHz.



Test Location: Underground Test Site #3 • Grayson Lakes Section 9, Transformer #3 • Katy, TX •

Customer: **Corinex**
 Specification: **FCC 15.209**
 Work Order #: **84818** Date: 3/20/2006
 Test Type: **Radiated Scan** Time: 10:14:25 AM
 Equipment: **BPL MV Gateway** Sequence#: 179
 Manufacturer: Corinex Tested By: C. Nicklas
 Model: MV Gateway
 S/N: ENG1

Equipment Under Test (* = EUT):

Function	Manufacturer	Model #	S/N
BPL MV Gateway*	Corinex	MV Gateway	ENG1
Underground Coupler	Arteche	UNIC	0516632/26
Combiner	Corinex	CXP-MVA-COM	none

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

Formal Underground Test Site #3: At Grayson Lakes Section 9, Transformer #3 in Katy, TX. Testing using the Magnetic Loop Antenna from 2-30MHz. Test distance of antenna to transformer is 10 meters. Distance correction factor is $-40\log(30/10)$ or -19.1dB . Test Position 16. Unit is setup for maximum transmission over the medium voltage lines at the maximum power level for underground lines only. Notch Filters are off line. The coupler on the appropriate line which is terminated into 75 ohms which simulated the unit termination. No signals seen from unit.

Transducer Legend:

T1=PO 05440 RG214/U Cable	T2=Cable 2410
T3=Mag Loop - AN 00432- 9kHz-30M	T4=10m Distance Correction

<i>Measurement Data:</i>		Reading listed by margin. Test Distance: 10 Meters									
#	Freq MHz	Rdng dB μ V	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dB μ V/m	Spec dB μ V/m	Margin dB	Polar Ant
1	2.713M	27.2	+0.1	+0.1	+9.3	-19.1	+0.0	17.6	29.5	-11.9	Paral
2	3.294M	23.5	+0.1	+0.1	+9.3	-19.1	+0.0	13.9	29.5	-15.6	Paral
3	11.184M	23.2	+0.1	+0.2	+9.0	-19.1	+0.0	13.4	29.5	-16.1	Paral
4	15.344M	22.2	+0.2	+0.2	+8.6	-19.1	+0.0	12.1	29.5	-17.4	Paral
5	23.907M	12.8	+0.2	+0.3	+7.1	-19.1	+0.0	1.3	29.5	-28.2	Paral
6	27.616M	10.2	+0.3	+0.3	+5.9	-19.1	+0.0	-2.4	29.5	-31.9	Paral

Underground Test Site #3 Date: 3/20/2006 Time: 10:14:25 AM Corinex WO#: 84818
FCC 15.209 Test Distance: 10 Meters Sequence#: 179 Parallel
Underground Site 3 Position 16. Medium Lines only. Notches off. Full power 2-30MHz.

