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Report On

EMC Evaluation of
Nextivity Inc.
Cel-Fi DUO Smart Cellular Signal Booster

FCC Part 15 Subpart B
ICES-003 Issue 6

Report No. SC72112724-0116H

April 2016



America

TÜV SÜD America Inc., 10040 Mesa Rim Road, San Diego, CA 92121
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REPORT ON	EMC Evaluation of the Nextivity Inc. Cel-Fi DUO Smart Cellular Signal Booster
TEST REPORT NUMBER	SC72112724-0116H
TEST REPORT DATE	April 2016
PREPARED FOR	Nextivity Inc. 12230 World Trade Drive, Suite 250 San Deigo, CA 92128
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APPROVED BY	 Juan M. Gonzalez Name Authorized Signatory Title: Commercial Wireless EMC Lab Manager
DATED	April 22, 2016



America

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Revision History

SC72112724-0116H Nextivity Inc. M/N D32-2/13/66 Cel-Fi DUO Smart Cellular Signal Booster					
DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
04/22/2016	Initial Release				Juan M Gonzalez

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SECTION 1

REPORT SUMMARY

EMC Evaluation of the
Nextivity Inc.
Cel-Fi DUO Smart Cellular Signal Booster



1.1 INTRODUCTION

The information contained in this report is intended to show verification of the Nextivity Inc. Cel-Fi DUO Smart Cellular Signal Booster to the requirements of FCC Part 15 Subpart B and Industry Canada ICES-003.

Objective	To perform EMC Evaluation to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	Nextivity Inc.
Model Name	Cel-Fi DUO
Model Number(s)	D32-2/13/66
FCC ID Number	NU: YETD32-21366NU CU: YETD32-21366CU
Serial Number(s)	951550000015 (NU and CU)
Number of Samples Tested	2
Highest Frequency Generated or Used	5825MHz
Test Specification/Issue/Date	• FCC Part 15 Subpart B (October 1, 2015) • Spectrum Management and Telecommunications Interference-Causing Equipment Standard ICES-003 Information Technology Equipment (ITE) — Limits and methods of measurement (Issue 6 January 2016).
Start of Test	January 15, 2016
Finish of Test	January 19, 2016
Name of Engineer(s)	Xiaoying Zhang
Related Document(s)	None



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC Part 15 Subpart B is shown below. Test results from these tests are deemed satisfactory evidence of compliance with Industry Canada Interference-Causing Equipment Standard ICES-003.

Part 15	ICES-003	Test Description	Result	Comments/Base Standard
§15.107	Clause 6.1	Conducted Limits	Compliant	Class B requirement
§15.109	Clause 6.2	Radiated Emission Limits	Compliant	Class B requirement



1.3 PRODUCT INFORMATION

1.3.1 EUT General Description

The Equipment Under Test (EUT) was a Nextivity Inc. Cel-Fi DUO Smart Cellular Signal Booster. The EUT is a signal booster for indoor residential, small business and small enterprise use. It consists of two units: the Network Unit (NU), and the Coverage Unit (CU). NU and CU are shipped and sold as one unit. The NU transmits and receives Cellular signals from the base station and operates similar to a cellular handset. The CU transmits and receives signals with the cellular handset and operates on frequencies similar to the cellular base station. The NU and CU are connected wirelessly over a full-duplex wireless link in the UNII band using a mixed OFDM and muxed cellular signal over a 30 or 40 MHz channel in each direction. The CU also includes Bluetooth LE connectivity. With the use of smart phone application, it allows user to register the product, update software, capture/display details metrics of the system. NU does not support Bluetooth LE. This report covers “unintentional radiator” aspect of the EUT, all radios were placed on standby mode during testing (except for 5GHz wireless signal between NU and CU to build connection). Verifications were performed on both NU and CU with representative AC/DC Adaptor.



1.3.2 Labelling Requirement for Industry Canada

The manufacturer, importer or supplier shall meet the labelling requirements set out in this section and in Notice 2014-DRS1003 for electronic labelling for every unit:

- (i) Prior to marketing in Canada, for ITE manufactured in Canada, and;
- (ii) Prior to importation into Canada, for imported ITE.

Each unit of an ITE model shall bear a label (see below) that represents the manufacturer's or the importer's SDoC with Innovation, Science and Economic Development Canada's ICES-003. This label shall be permanently affixed to the ITE or displayed electronically and its text must be clearly legible. If the dimensions of the device are too small or if it is not practical to place the label on the ITE and electronic labelling has not been implemented, the label shall be, upon agreement with Innovation, Science and Economic Development Canada, placed in a prominent location in the user manual supplied with the ITE. The user manual may be in an electronic format and must be readily available.

Innovation, Science and Economic Development Canada ICES-003 Compliance Label:

CAN ICES-3 (B)/NMB-3(B)

1.3.3 Labelling Requirement for Part 15 (Verification) Device

See FCC Publication Number: 784748 for details:

<https://apps.fcc.gov/oetcf/kdb/forms/FTSsearchResultPage.cfm?id=27980&switch=P>

1.4 EUT TEST CONFIGURATION

1.4.1 Test Configuration Description

Test Configuration	Description
Default	EUT in idle mode. All I/Os are being exercised.

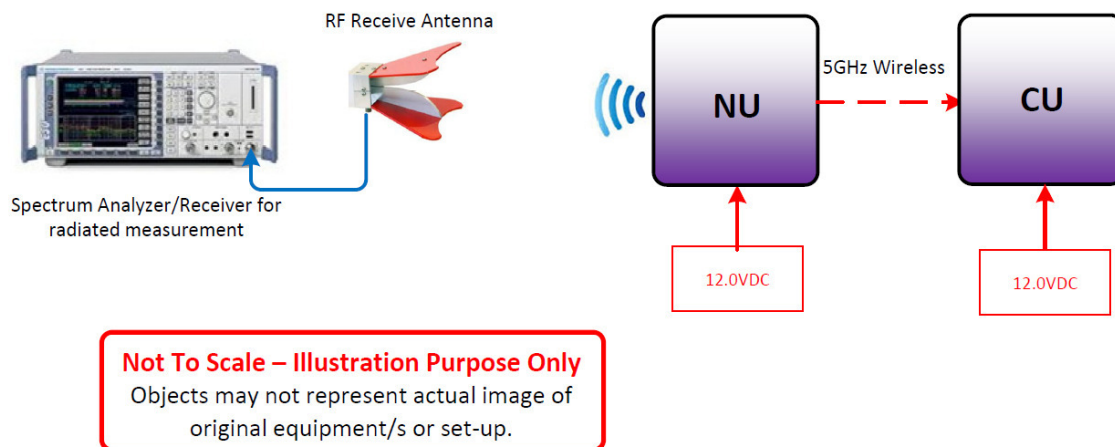
1.4.2 EUT Exercise Software

Manufacturer provided a configuration software (ConformanceTest.exe) running from a support laptop where both EUT are connected via USB.

1.4.3 Support Equipment and I/O cables

Manufacturer	Equipment/Cable	Description
Hon-Kwang	AC/DC Adapter (EUT)	M/N HK-AB-120A250-US P/N 290N025-001, 12VDC 2.5A
-	Support USB cable	1.75 meters, shielded Type A to Micro B connector
Nextivity	Support USB cable	Custom 1.0 meter shielded USB Type A to DB9 for the Shielded Test Enclosure
Sony	Support Laptop	M/N PCG-31311L S/N 27545534 3006488
Sony	Support Laptop AC Adapter	M/N PCGA-AC19V9 S/N 147839091 0023259

1.4.4 Simplified Test Configuration Diagram





1.5 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.6 MODIFICATION RECORD

Description of Modification	Modification Fitted By	Date Modification Fitted
Serial Number: 951550000015 (NU and CU)		
N/A		

The table above details modifications made to the EUT during the test programme. The modifications incorporated during each test (if relevant) are recorded on the appropriate test pages.

1.7 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

For radiated emissions the equipment under test (EUT) was configured to measure its highest possible emission level. This level was based on the maximized cable configuration from exploratory testing per ANSI C63.4-2014. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.8 TEST FACILITY LOCATION

1.8.1 TÜV SÜD America Inc. (Mira Mesa)

10040 Mesa Rim Road, San Diego, CA 92121-2912 (32.901268,-117.177681). Phone: 858 678 1400 FAX: 858-546 0364

1.8.2 TÜV SÜD America Inc. (Rancho Bernardo)

Building #8, 16530 Via Esprillo, San Diego, CA 92127-1708 (33.018644,-117.092409). Phone: 858 942 5542 Fax: 858 546 0364.

1.9 TEST FACILITY REGISTRATION

1.9.1 FCC – Registration No.: US1146

TUV SUD America Inc. (San Diego), is an accredited test facility with the site description report on file and has met all the requirements specified in §2.948 of the FCC rules. The acceptance letter from the FCC is maintained in our files and the Registration is US1146.



1.9.2 Industry Canada (IC) Registration No.: 3067A

The 10m Semi-anechoic chamber of TÜV SÜD America Inc. (San Diego) has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No. 3067A.



SECTION 2

TEST DETAILS

EMC Evaluation of the
Nextivity Inc.
Cel-Fi DUO Smart Cellular Signal Booster

2.1 CONDUCTED LIMITS

2.1.1 Specification Reference

Part 15 Subpart B §15.107(a)

2.1.2 Standard Applicable

Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

**Decreases with the logarithm of the frequency.*

2.1.3 Equipment Under Test and Modification State

Serial No: 951550000015 (NU and CU)/Default Test Configuration

2.1.4 Date of Test/Initial of test personnel who performed the test

January 18, 2016/XYZ

2.1.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.1.6 Environmental Conditions/Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

Ambient Temperature	22.5 °C
Relative Humidity	52.6. %
ATM Pressure	99.9 kPa



2.1.7 Additional Observations

- EUT verified as a system through the NU with CU connected
- Measurement was done using EMC32 V8.53 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.1.8 for sample computation.

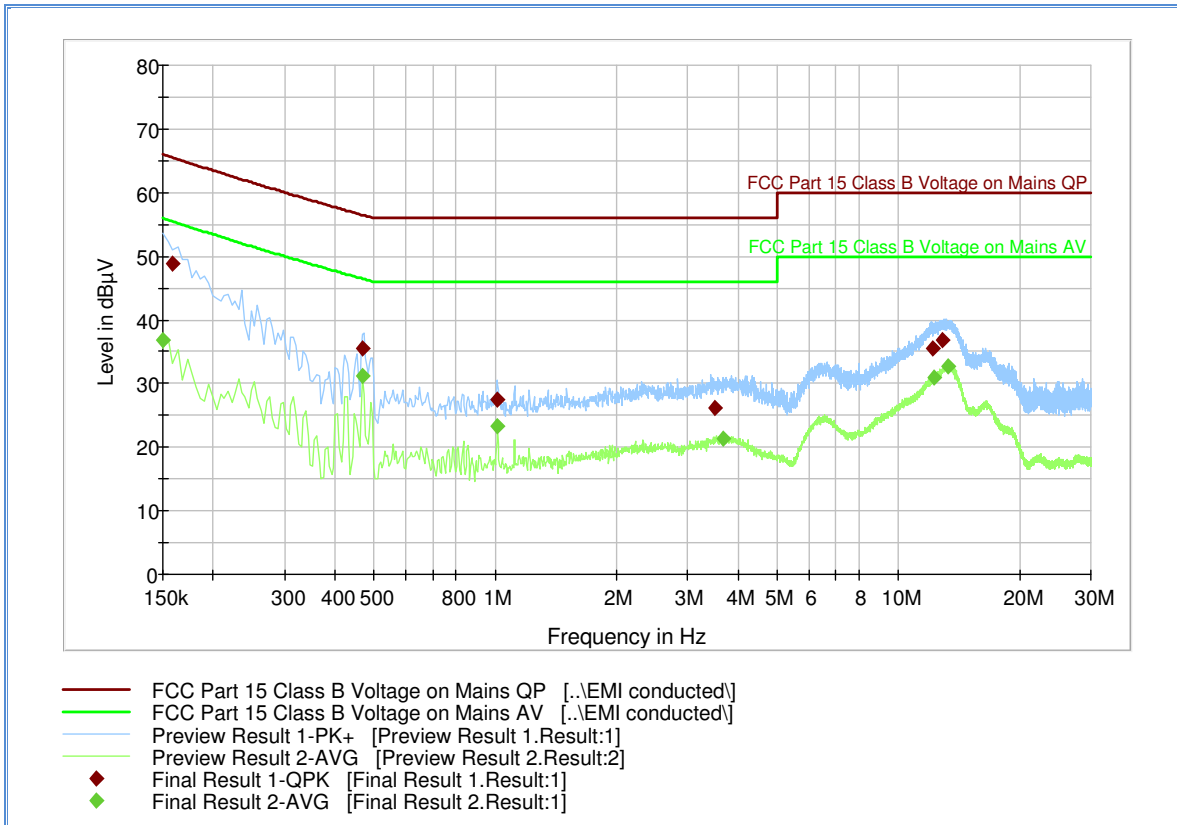
2.1.8 Sample Computation (Conducted Emission – Quasi Peak)

Measuring equipment raw measurement (dbμV) @ 150kHz			5.5
Correction Factor (dB)	Asset# 8607 (20 dB attenuator)	19.9	20.7
	Asset# 1177 (cable)	0.15	
	Asset# 1176 (cable)	0.35	
	Asset# 7568 (LISN)	0.30	
Reported QuasiPeak Final Measurement (dbμV) @ 150kHz			26.2

2.1.9 Test Results

Compliant. See attached plots and tables.

2.1.10 NU Line 1 (120V/60Hz – Hot)



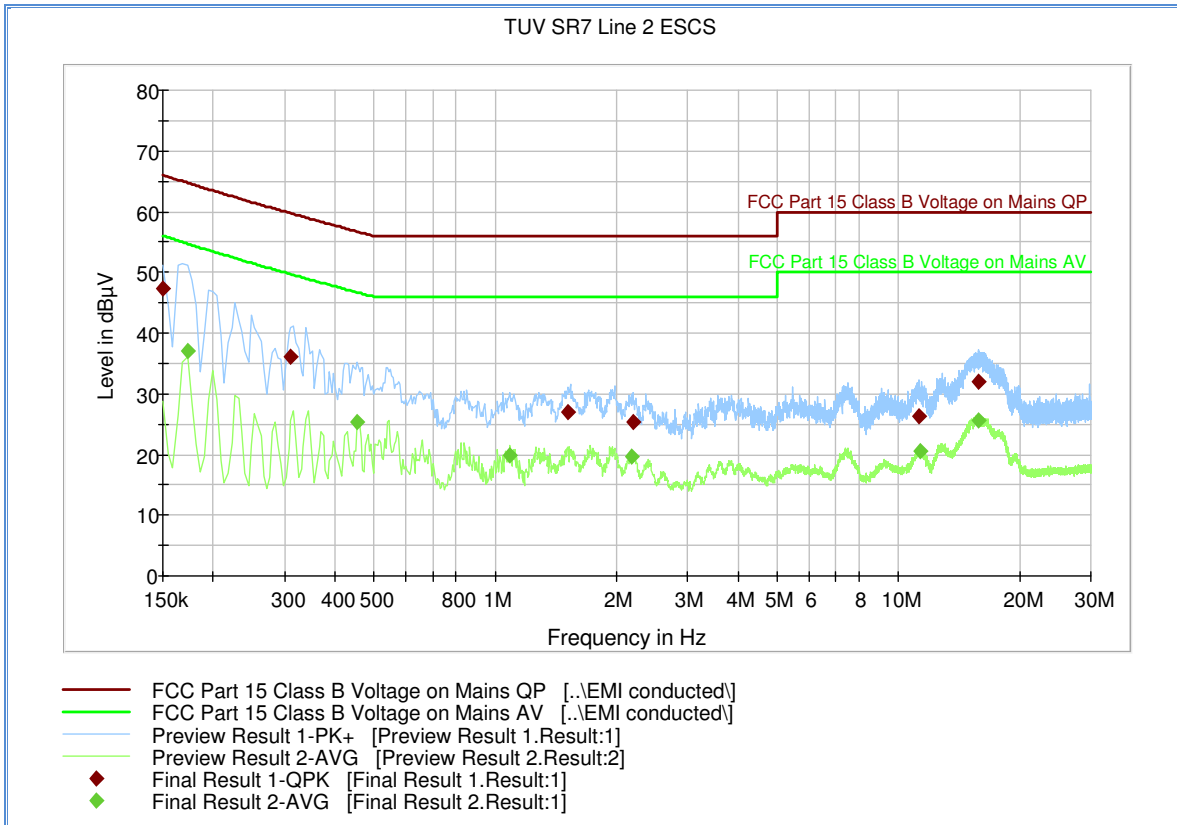
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.159000	48.8	1000.0	9.000	Off	L1	20.0	16.7	65.5
0.469500	35.5	1000.0	9.000	Off	L1	20.1	21.0	56.5
1.014000	27.4	1000.0	9.000	Off	L1	20.2	28.6	56.0
3.507000	26.2	1000.0	9.000	Off	L1	20.5	29.8	56.0
12.133500	35.5	1000.0	9.000	Off	L1	20.6	24.5	60.0
12.867000	36.8	1000.0	9.000	Off	L1	20.6	23.2	60.0

Average Data

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.150000	36.9	1000.0	9.000	Off	L1	20.1	19.1	56.0
0.469500	31.3	1000.0	9.000	Off	L1	20.1	15.2	46.5
1.014000	23.2	1000.0	9.000	Off	L1	20.2	22.8	46.0
3.664500	21.3	1000.0	9.000	Off	L1	20.5	24.7	46.0
12.304500	31.0	1000.0	9.000	Off	L1	20.6	19.0	50.0
13.263000	32.6	1000.0	9.000	Off	L1	20.6	17.4	50.0

2.1.11 NU Line 2 (120V/60Hz – Neutral)



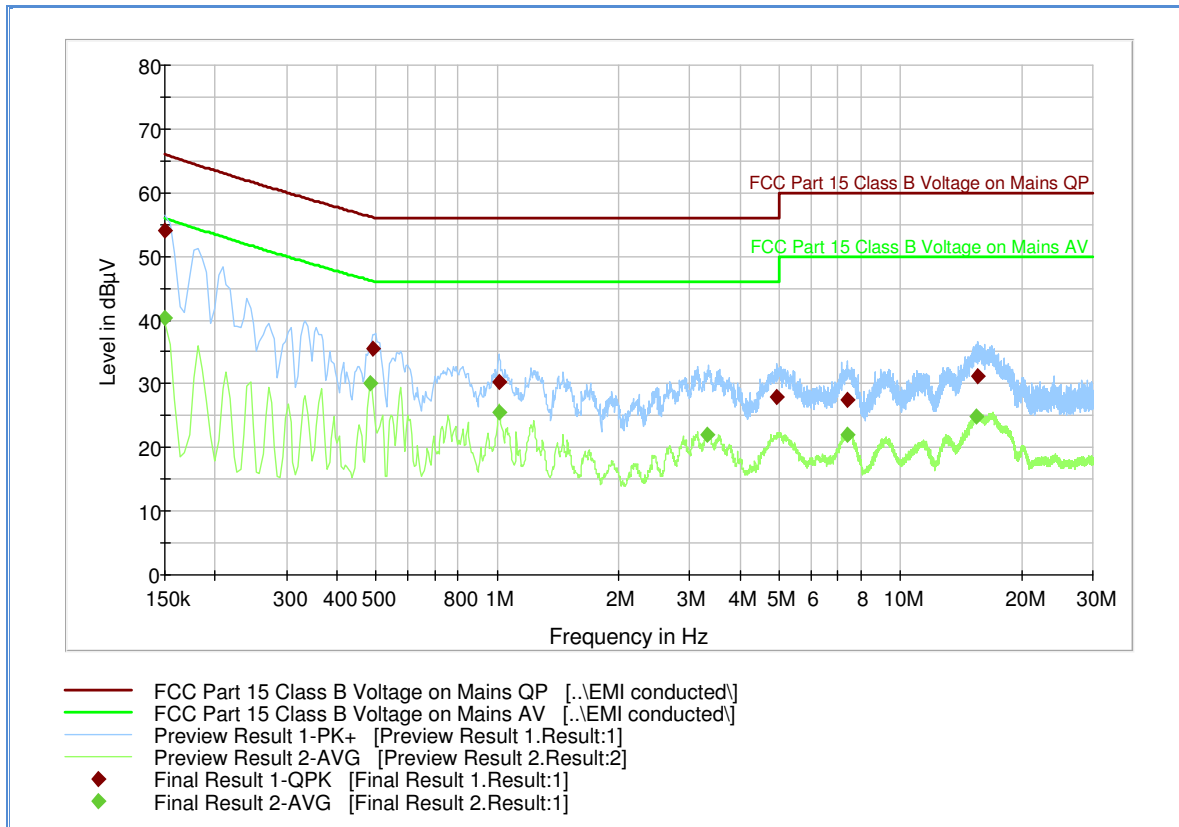
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.150000	47.4	1000.0	9.000	Off	N	20.1	18.6	66.0
0.312000	36.2	1000.0	9.000	Off	N	20.2	23.5	59.7
1.518000	26.9	1000.0	9.000	Off	N	20.2	29.1	56.0
2.202000	25.3	1000.0	9.000	Off	N	20.4	30.7	56.0
11.224500	26.3	1000.0	9.000	Off	N	20.6	33.7	60.0
15.832500	32.0	1000.0	9.000	Off	N	20.6	28.0	60.0

Average Data

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.172500	37.1	1000.0	9.000	Off	N	20.1	17.6	54.7
0.456000	25.3	1000.0	9.000	Off	N	20.1	21.4	46.7
1.090500	19.8	1000.0	9.000	Off	N	20.2	26.2	46.0
2.175000	19.6	1000.0	9.000	Off	N	20.4	26.4	46.0
11.368500	20.5	1000.0	9.000	Off	N	20.6	29.5	50.0
15.796500	25.6	1000.0	9.000	Off	N	20.6	24.4	50.0

2.1.1 CU Line 1 (120V/60Hz – Hot)



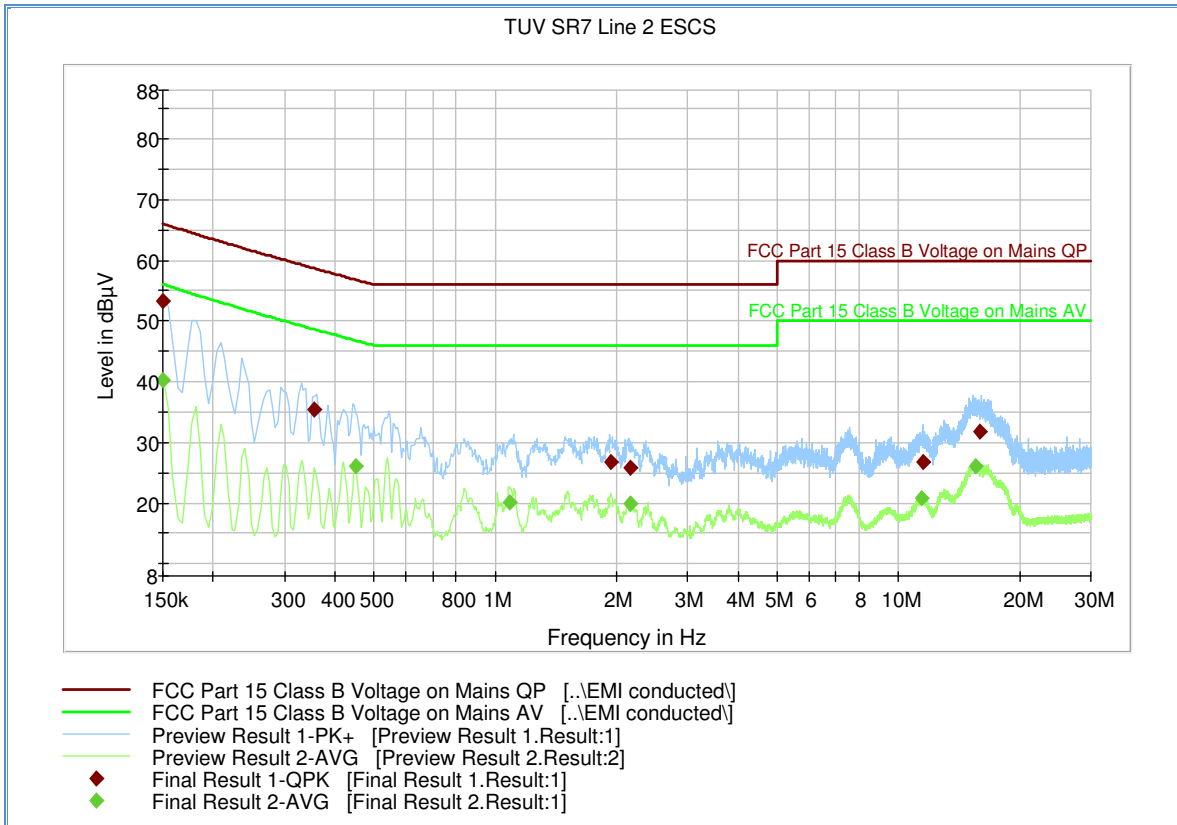
Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.150000	54.0	1000.0	9.000	Off	L1	20.1	12.0	66.0
0.492000	35.4	1000.0	9.000	Off	L1	20.1	20.7	56.1
1.009500	30.2	1000.0	9.000	Off	L1	20.1	25.8	56.0
4.929000	28.0	1000.0	9.000	Off	L1	20.5	28.0	56.0
7.399500	27.5	1000.0	9.000	Off	L1	20.5	32.5	60.0
15.598500	31.1	1000.0	9.000	Off	L1	20.6	28.9	60.0

Average Data

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.150000	40.3	1000.0	9.000	Off	L1	20.1	15.7	56.0
0.483000	30.0	1000.0	9.000	Off	L1	20.1	16.3	46.3
1.014000	25.5	1000.0	9.000	Off	L1	20.2	20.5	46.0
3.327000	22.0	1000.0	9.000	Off	L1	20.5	24.0	46.0
7.368000	22.1	1000.0	9.000	Off	L1	20.5	27.9	50.0
15.414000	24.8	1000.0	9.000	Off	L1	20.6	25.2	50.0

2.1.2 CU Line 2 (120V/60Hz – Neutral)



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)
0.150000	53.3	1000.0	9.000	Off	N	20.1	12.7	66.0
0.357000	35.5	1000.0	9.000	Off	N	20.2	23.1	58.6
1.936500	26.7	1000.0	9.000	Off	N	20.1	29.3	56.0
2.161500	25.9	1000.0	9.000	Off	N	20.3	30.1	56.0
11.526000	26.7	1000.0	9.000	Off	N	20.6	33.3	60.0
15.981000	31.9	1000.0	9.000	Off	N	20.6	28.1	60.0

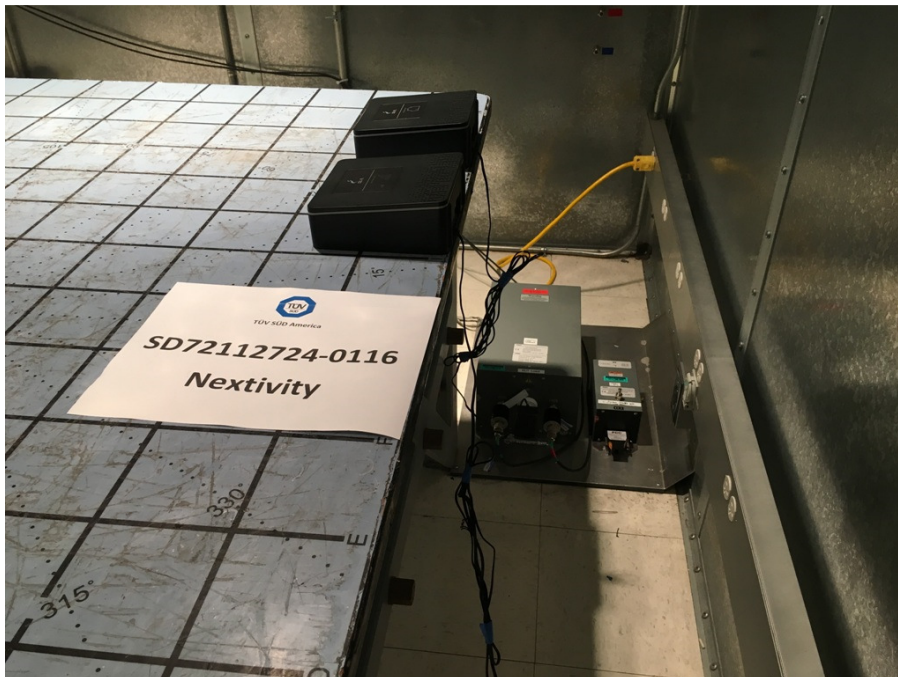
Average Data

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBµV)
0.150000	40.2	1000.0	9.000	Off	N	20.1	15.8	56.0
0.451500	26.1	1000.0	9.000	Off	N	20.1	20.7	46.8
1.086000	20.2	1000.0	9.000	Off	N	20.1	25.8	46.0
2.157000	19.9	1000.0	9.000	Off	N	20.3	26.1	46.0
11.382000	20.8	1000.0	9.000	Off	N	20.6	29.2	50.0
15.567000	26.1	1000.0	9.000	Off	N	20.6	23.9	50.0

2.1.3 Test Set up Pictures Conducted Emissions



Front Picture



Side Picture

2.2 RADIATED EMISSION LIMITS

2.2.1 Specification Reference

Part 15 Subpart B §15.109(a)

2.2.2 Standard Applicable

(a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of emission (MHz)	Field Strength (microvolts/meter)
30-88	100
88-216	150
216-960	200
Above 960	500

2.2.3 Equipment Under Test and Modification State

Serial No: 951550000015 (NU and CU) / Default Test Configuration

2.2.4 Date of Test/Initial of test personnel who performed the test

January 15 and 19, 2016/XYZ

2.2.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature	22.8 - 23.1 °C
Relative Humidity	34.5 - 44.6 %
ATM Pressure	99.2 - 99.8 kPa

2.2.7 Additional Observations

- The spectrum was searched from 30MHz to 18GHz and verified to Class A limits.
- Below 1GHz verifications are performed at 10 meters while above 1GHz are at 3 meters.
- Measurement was done using EMC32 V8.53 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.2.8 for sample computation.

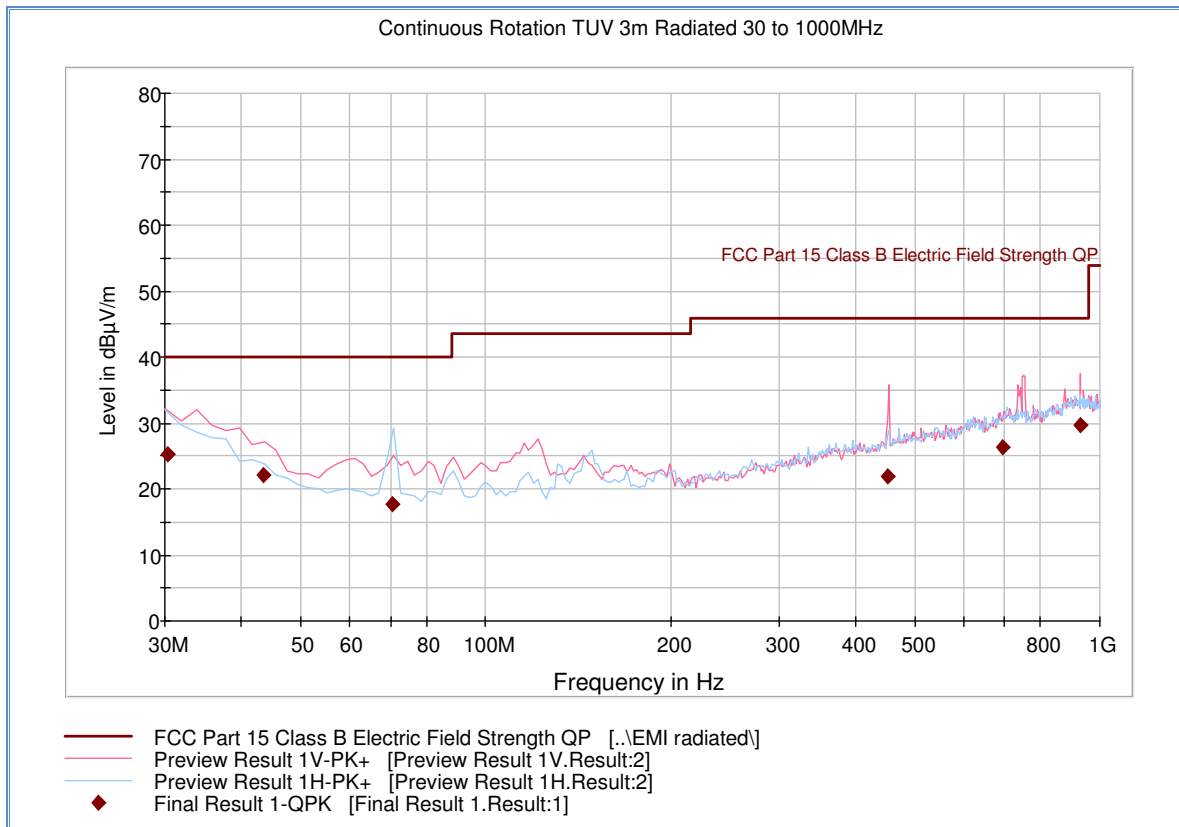
2.2.8 Sample Computation (Radiated Emission)

Measuring equipment raw measurement (db μ V) @ 30 MHz			24.4
Correction Factor (dB)	Asset# 1066 (cable)	0.3	-12.6
	Asset# 1172 (cable)	0.3	
	Asset# 1016 (preamplifier)	-30.7	
	Asset# 1175(cable)	0.3	
	Asset# 1002 (antenna)	17.2	
Reported QuasiPeak Final Measurement (db μ V/m) @ 30MHz			11.8

2.2.9 Test Results

See attached plots.

2.2.9.1 Below 1GHz Radiated Emission Test

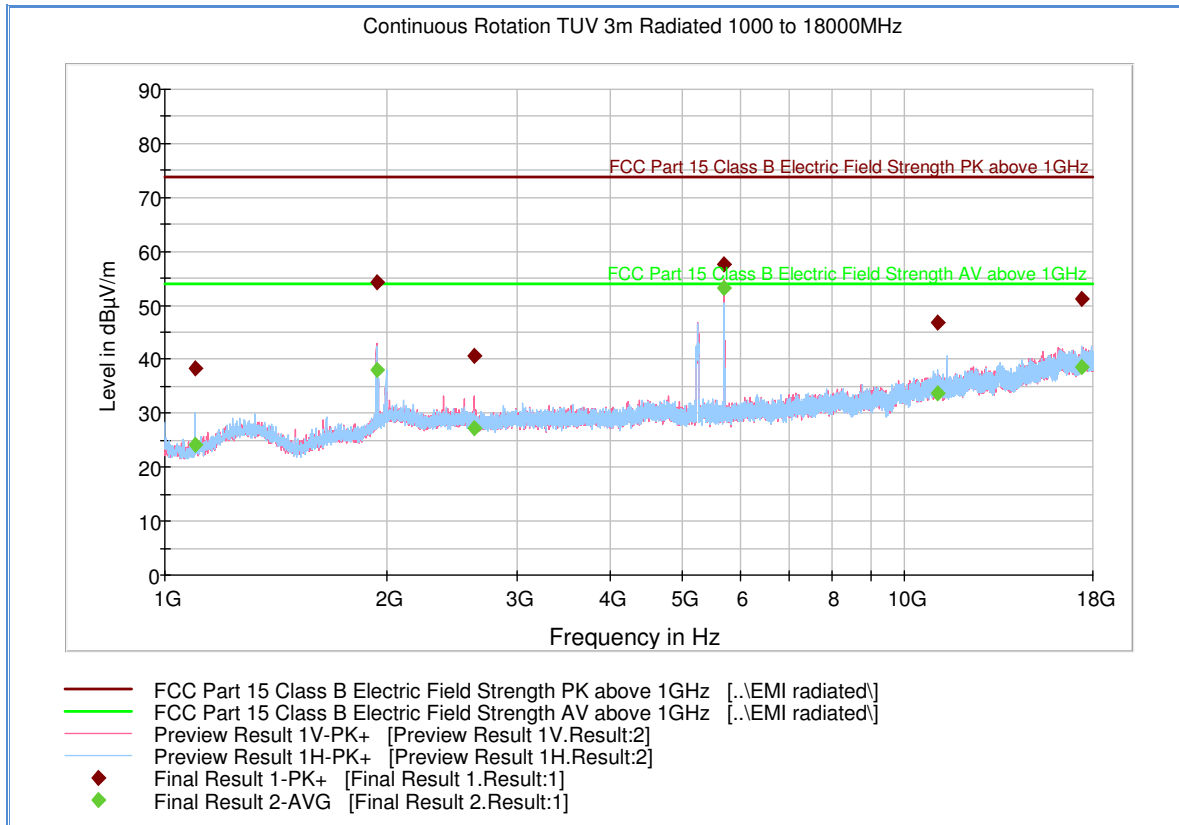


Quasi-Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
30.320000	25.3	1000.0	120.000	130.0	V	18.0	-5.7	14.7	40.0
43.487214	22.2	1000.0	120.000	100.0	V	136.0	-12.3	17.8	40.0
70.581643	17.6	1000.0	120.000	100.0	H	201.0	-16.8	22.4	40.0
452.047535	22.0	1000.0	120.000	183.0	V	308.0	-2.7	24.0	46.0
695.433507	26.4	1000.0	120.000	361.0	V	86.0	3.0	19.6	46.0
929.620040	29.6	1000.0	120.000	138.0	V	314.0	6.5	16.4	46.0

Test Notes:

2.2.9.2 Above 1GHz Radiated Emission Test



Peak Data

Frequency (MHz)	Max Peak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1099.733333	38.2	1000.0	1000.000	156.6	H	71.0	-7.9	35.7	73.9
1932.933333	54.2	1000.0	1000.000	378.1	V	-20.0	-1.6	19.7	73.9
2623.300000	40.7	1000.0	1000.000	391.1	V	10.0	-0.8	33.2	73.9
5714.866667	57.6	1000.0	1000.000	207.5	V	282.0	4.2	5GHz signal between NU and CU*	
11117.266666	46.7	1000.0	1000.000	403.5	H	258.0	11.5	27.2	73.9
17375.533333	51.3	1000.0	1000.000	356.1	H	138.0	18.0	22.6	73.9

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1099.733333	24.1	1000.0	1000.000	156.6	H	71.0	-7.9	29.8	53.9
1932.933333	38.0	1000.0	1000.000	378.1	V	-20.0	-1.6	15.9	53.9
2623.300000	27.4	1000.0	1000.000	391.1	V	10.0	-0.8	26.5	53.9
5714.866667	53.2	1000.0	1000.000	207.5	V	282.0	4.2	5GHz signal between NU and CU*	
11117.266666	33.6	1000.0	1000.000	403.5	H	258.0	11.5	20.3	53.9
17375.533333	38.7	1000.0	1000.000	356.1	H	138.0	18.0	15.2	53.9

Test Notes*: 5GHz will transmit between NU and CU when they are powered on.

2.2.10 Test Setup Photo (Below 1GHz Front)



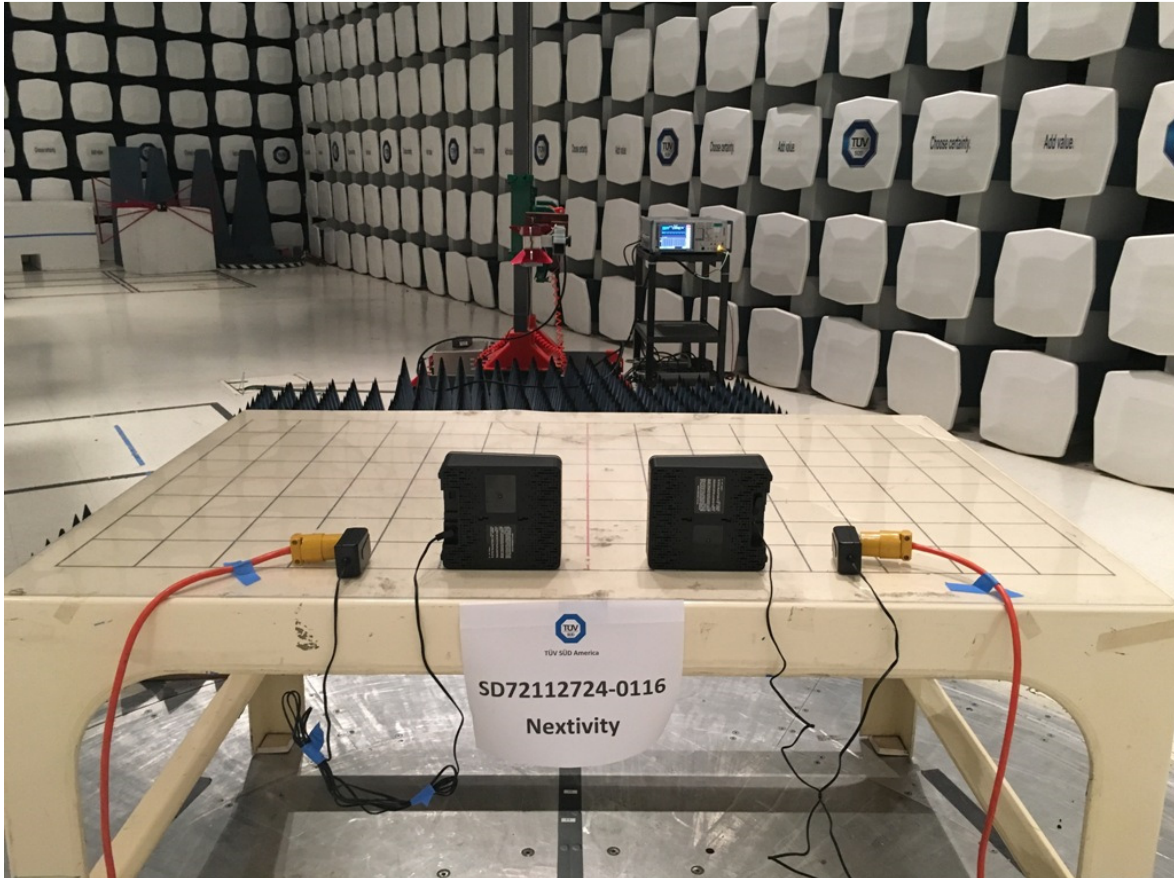
2.2.11 Test Setup Photo (Below 1GHz Back)



2.2.12 Test Setup Photo (Above 1GHz Front)



2.2.13 Test Setup Photo (Above 1GHz Back)





SECTION 3

TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

ID Number (SDGE/SDRB)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
Conducted Emissions						
1024	EMI Test Receiver	ESCS 30	847793/001	Rhode & Schwarz	04/10/15	04/10/16
7567	LISN	FCC-LISN-50-25-2-10	120304	Fischer Custom Comm.	07/14/15	07/14/16
8822	20dB Attenuator	34-20-34	N/A	MCE / Weinschel	02/20/15	02/20/16
8824	20dB Attenuator	34-20-34	N/A	MCE / Weinschel	02/20/15	02/20/16
Radiated Emission						
1033	Bilog Antenna	3142C	00044556	EMCO	09/25/14	09/25/16
7575	Double-ridged waveguide horn antenna	3117	00155511	EMCO	04/27/15	04/27/16
8628	Pre-amplifier	QLJ 01182835-JO	8986002	QuinStar Technologies Inc.	03/20/15	03/20/16
8543	High-frequency cable	Micropore 19057793	N/A	United Microwave Products	09/03/15	09/03/16
1040	EMI Test Receiver	ESIB40	100292	Rhode & Schwarz	09/29/15	09/29/16
1049	EMI Test Receiver	ESU	100133	Rhode & Schwarz	03/11/15	03/11/16
1016	Pre-amplifier	PAM-0202	187	PAM	12/15/15	12/15/16
Miscellaneous						
	Test Software	EMC32	V8.53	Rhode & Schwarz	N/A	
7560	Barometer/Temperature/Humidity Transmitter	iBTHX-W	1240476	Omega	10/19/15	10/19/16

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

3.2.1 Conducted Measurements

	Contribution	Probability Distribution Type	Probability Distribution x_i	Standard Uncertainty $u(x_i)$	$[u(x_i)]^2$
1	Receiver/Spectrum Analyzer	Rectangular	0.36	0.21	0.04
2	Cables	Rectangular	0.50	0.29	0.08
3	LISN	Rectangular	0.66	0.38	0.15
4	Attenuator	Rectangular	0.30	0.17	0.03
5	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					0.80
Coverage Factor (k):					2
Expanded Uncertainty:					1.59

3.2.2 Radiated Measurements (Below 1GHz)

	Contribution	Probability Distribution Type	Probability Distribution x_i	Standard Uncertainty $u(x_i)$	$[u(x_i)]^2$
1	Receiver/Spectrum Analyzer	Rectangular	0.45	0.26	0.07
2	Cables	Rectangular	0.50	0.29	0.08
3	Preamp	Rectangular	0.50	0.29	0.08
4	Antenna	Rectangular	0.75	0.43	0.19
5	Site	Rectangular	2.70	1.56	2.43
6	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					1.78
Coverage Factor (k):					2
Expanded Uncertainty:					3.57

3.2.3 Radiated Emission Measurements (Above 1GHz)

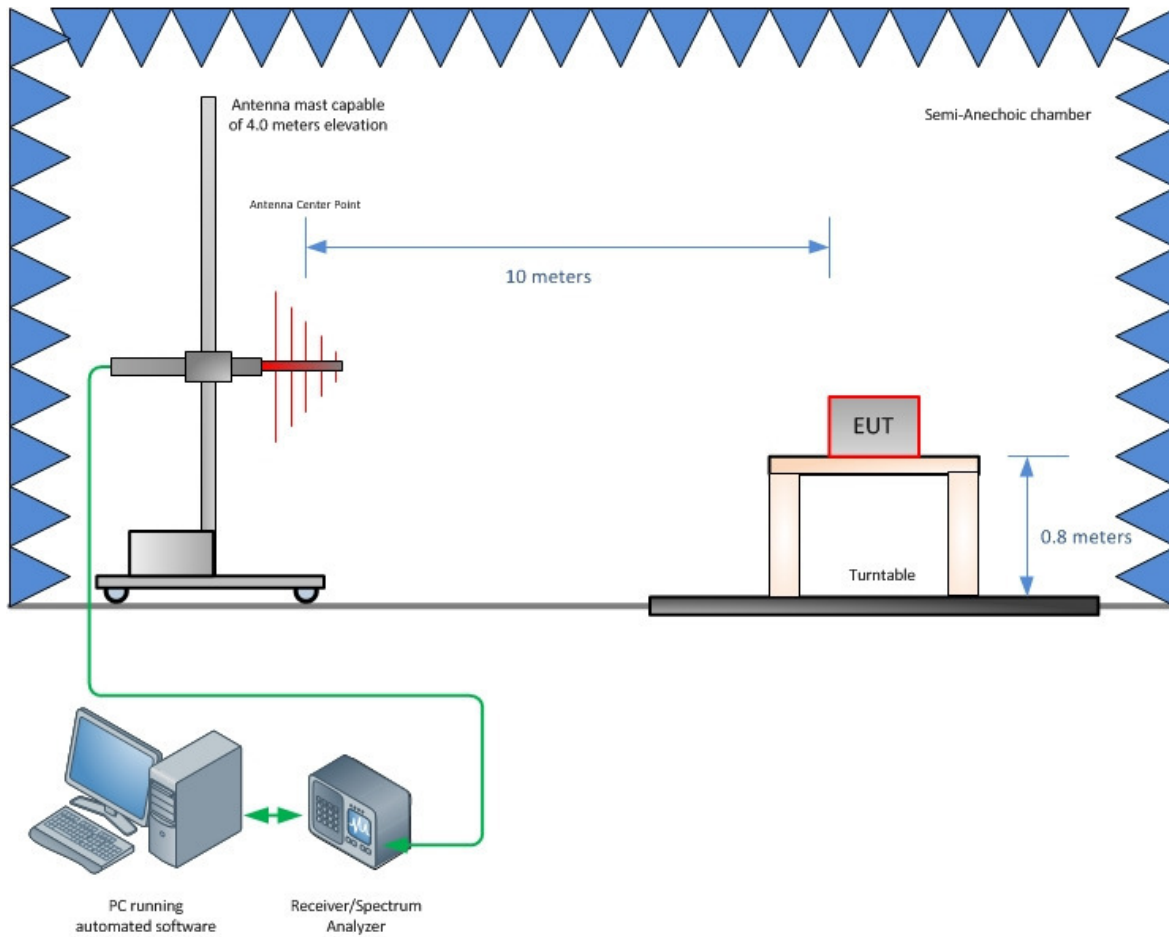
	Contribution	Probability Distribution Type	Probability Distribution x_i	Standard Uncertainty $u(x_i)$	$[u(x_i)]^2$
1	Receiver/Spectrum Analyzer	Rectangular	0.57	0.33	0.11
2	Cables	Rectangular	0.70	0.40	0.16
3	Preamp	Rectangular	0.50	0.29	0.08
4	Antenna	Rectangular	0.37	0.21	0.05
5	Site	Rectangular	2.70	1.56	2.43
6	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					1.78
Coverage Factor (k):					2
Expanded Uncertainty:					3.56



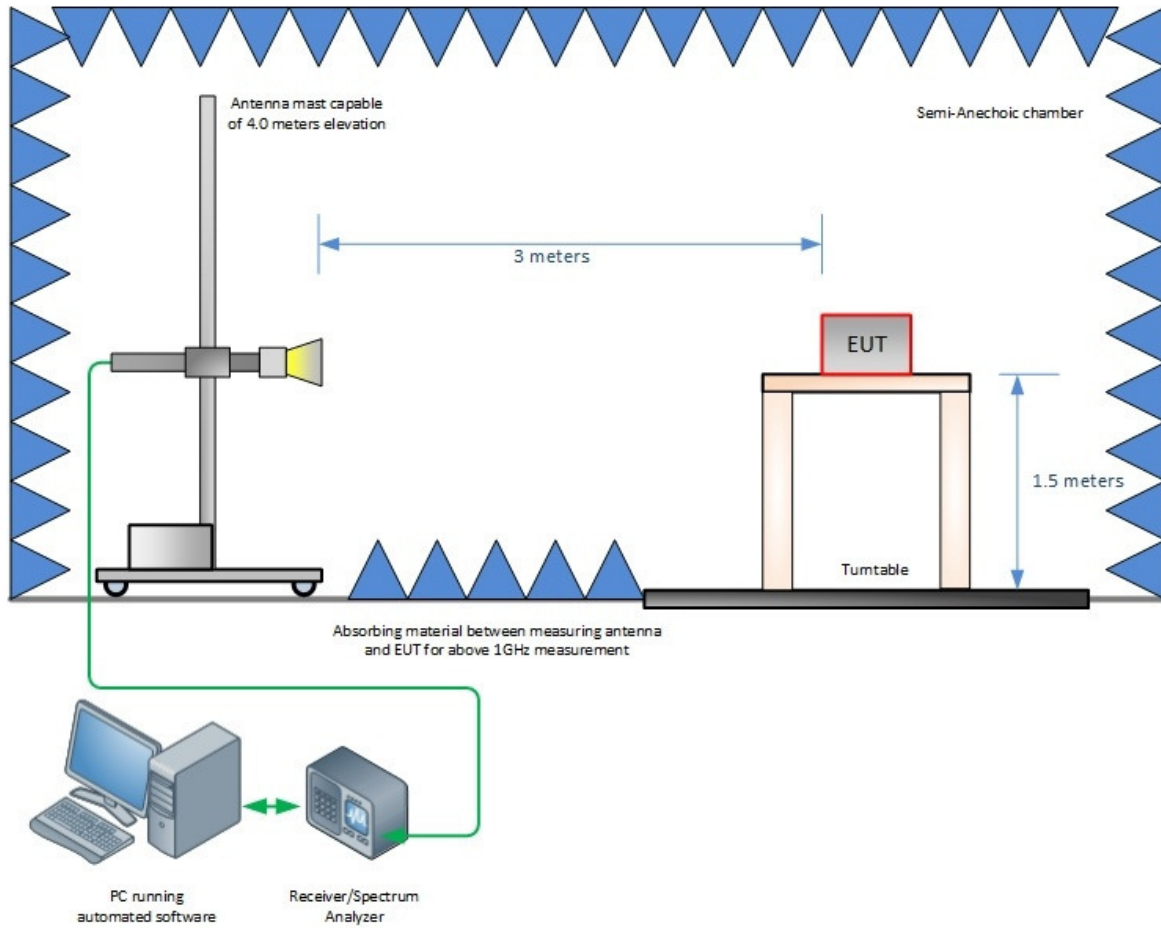
SECTION 4

DIAGRAM OF TEST SETUP

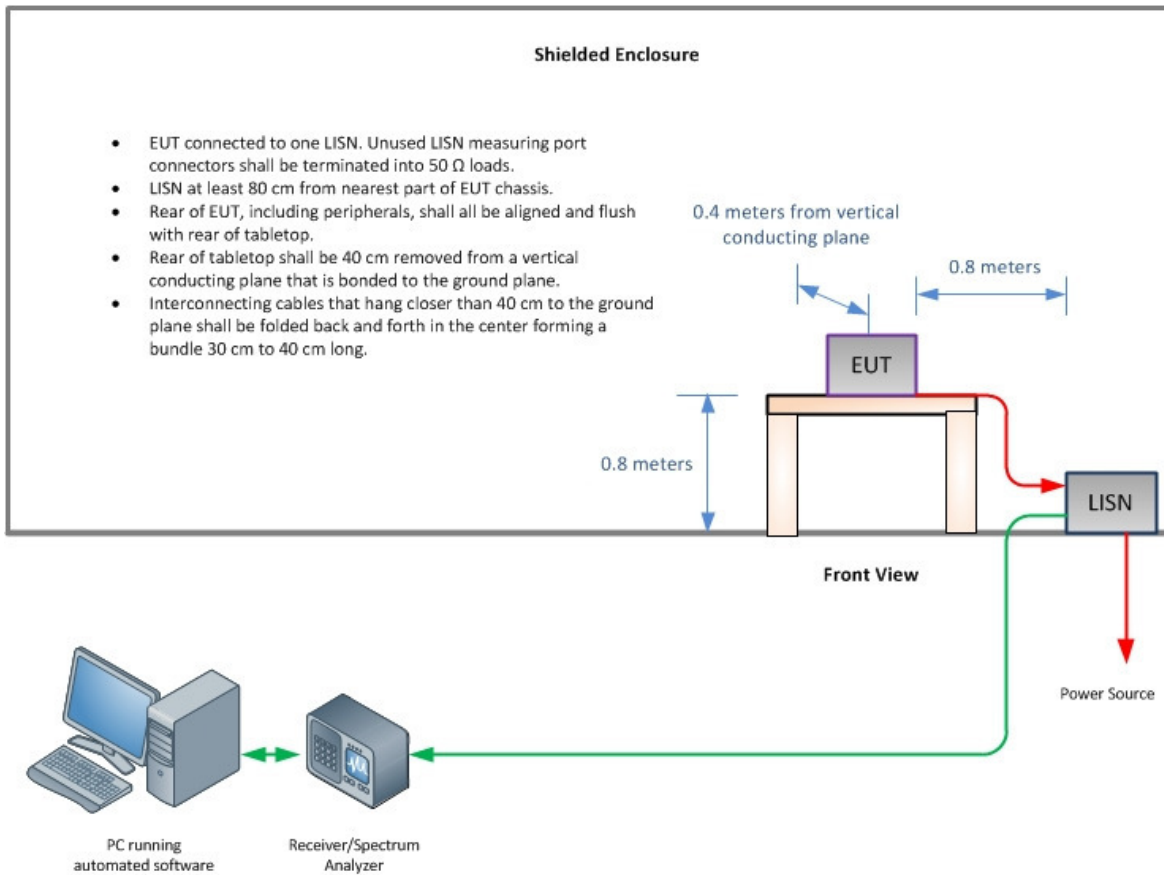
4.1 RADIATED EMISSION TEST SETUP (BELOW 1GHZ)



4.2 RADIATED EMISSION TEST SETUP (ABOVE 1GHZ)



4.3 CONDUCTED EMISSION TEST SETUP





SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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