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Report On

Application for Grant of Equipment Authorization of the
iLOC Technologies
TRiLOC PLD Personal GPS Locator

FCC CFR 47 Part 2, Part 22 and Part 24
IC RSS-Gen, RSS-132 and RSS-133

Report No. SC1301827C_Rev1.0

April 2013



REPORT ON	Radio Testing of the iLOC Technologies Personal GPS Locator
TEST REPORT NUMBER	SC1301827C_Rev1.0
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DATED	_____ April 26, 2013



Revision History

SC1301827C_Rev1.0 iLOC Technologies TRILOC PLD Personal GPS Locator					
DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
04/12/13	Initial Release				Juan M. Gonzalez
04/26/13	Initial Release	1.0	Remove pictures from page 8 & 12 / Extract photos from 1.4.4 page 11 / update table 1.3.3 state "Peak Conducted" instead of "ERP/EIRP"	8, 10, 11 & 12.	Juan M. Gonzalez



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SECTION 1

REPORT SUMMARY

Radio Testing of the
iLOC Technologies
Personal GPS Locator



1.1 INTRODUCTION

The information contained in this report is intended to show verification of the iLOC Technologies Personal GPS Locator to the requirements of the following:

- FCC CFR 47 Part 2, Part 22 and Part 24
- IC RSS-Gen, RSS-132 and RSS-133.

Objective	To perform Radio Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	iLOC Technologies
Model Number(s)	iL1000
FCC ID Number	ST8TRiLOC01
IC Number	10925A-TRiLOC01
Serial Number(s)	Sample 77
Number of Samples Tested	1
Test Specification/Issue/Date	• FCC CFR 47 Part 2, Part 22 and Part 24 (October 1, 2011). • RSS-132 - Cellular Telephones Employing New Technologies Operating in the Bands 824-849 MHz and 869-894 MHz (Issue 3, January 2013). • RSS-133 – 2 GHz Personal Communications Services (Issue 6, January 2013). • RSS-Gen - General Requirements and Information for the Certification of Radio Apparatus (Issue 3, December 2010).
Start of Test	February 22, 2013
Finish of Test	March 21, 2013
Name of Engineer(s)	Juan Manuel Gonzalez Ferdinand S. Custodio
Related Document(s)	None. Supporting documents for EUT certification are separate exhibits.



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC CFR 47 Part 2, Part 22 and Part 24 with cross-reference to the corresponding IC RSS standard is shown below.

Section	FCC Part Sections(s)	RSS Section(s)	Test Description	Result
2.1 *	2.1046	RSS-132(4.4),RSS-133(4.1)	Transmitter Conducted Output Power	Compliant
2.2	22.913(a)(2), 2.1046	RSS-132(4.4),SRSP-503(5.1.3)	Effective Radiated Power	Compliant
2.3	24.232(c),2.1046	RSS-133(6.4),SRSP-510(5.1.2)	Equivalent Isotropic Radiated Power	Compliant
2.4*	2.1049,22.917(b), 24.238(b)	RSS-Gen(4.6.1)	Occupied Bandwidth	Compliant
2.5*	2.1051,22.917(a), 24.238(a)	RSS-132(4.5.1),RSS-133(6.5.1)	Band Edge/Conducted Spurious Emissions	Compliant
2.6	2.1053,22.917(a), 24.238(a)	RSS-132(4.5.1),RSS-133(6.5.1)	Field Strength Of Spurious Radiation	Compliant
2.7*	2.1055,22.355,24.235	RSS-132(4.3),RSS-133(6.3)	Frequency Stability	Compliant
2.8		RSS-132(4.6),RSS-133(6.6)	Receiver Spurious Emissions	Compliant
2.9		RSS-Gen 7.2.4	Power Line Conducted Emission	Compliant

* Judgment for this section is based on Test results from Cinterion wireless Module Report and full data can be found from report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe.



1.3 PRODUCT INFORMATION

1.3.1 EUT General Description

The model iL1000 TRiLOC GPS Locator is designed to be worn on an individual's wrist allowing care givers to locate that individual remotely using a proprietary Location Server User Web Portal or proprietary smart phone App. Location data is obtained using the integrated GPS receiver, processed by a microcontroller and communicated to the care giver over the cellular network. Emergency bi-directional cellular voice communication with auto-answer is possible using the integrated speaker and microphone. A voice call can be initiated by the user by pressing the multi-function SOS button located on the side of the case. A Bluetooth 4.0 transceiver is included to provide a short range low power radio frequency link compatible accessories used to provide indoor location data, wireless connection to residential or commercial security systems, biosensor data, or other Bluetooth 4.0 services. System power is derived from a rechargeable lithium-ion polymer battery.



1.3.2 EUT General Description

EUT Description	TRiLOC PLD Personal GPS Locator
Model Number(s)	iL1000
FCC Classification	PCB - PCS Licensed Transmitter
Rated Voltage	3.7 VDC Nominal voltage (Battery).
Capability	850/1900 GSM/GPRS/EGPRS, 850/1900 UMTS Band 2 and 5.
Frequency Tolerance	$\pm 0.00025\%$ (2.5ppm)
Primary Unit (EUT)	☐ Production ☐ Pre-Production ☒ Engineering
Antenna Type	Internal Capacitively fed planar folded monopole

1.3.3 Transmit Frequency Table

Mode	Tx Frequency (MHz)	Emission Designator	Peak Conducted
			Max. Power (W)
GSM850	824.2-848.8	249KGXW	2.399
EGPRS850	824.2-848.8	235KG7W	1.072
GSM1900	1850.2-1909.8	247KGXW	1.122
EGPRS1900	1850.2-1909.8	241KG7W	0.871
FDD2	1852.4-1907.6	4M17F9W	0.676
FDD5	826.4-846.6	4M17F9W	0.692

Note.-

Output power listed is peak conducted. Data presented in this table comes from report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe and inserted into this report for completion.



1.4 EUT TEST CONFIGURATION

1.4.1 Test Configuration Description

Test Configuration	Description
A	Radiated and Conducted Emissions set up. EUT powered by USB AC adapter/charger. EUT transmitting max. Power.
B	Receive Mode, EUT powered by USB AC adapter/charger.

1.4.2 EUT Exercise Software

None

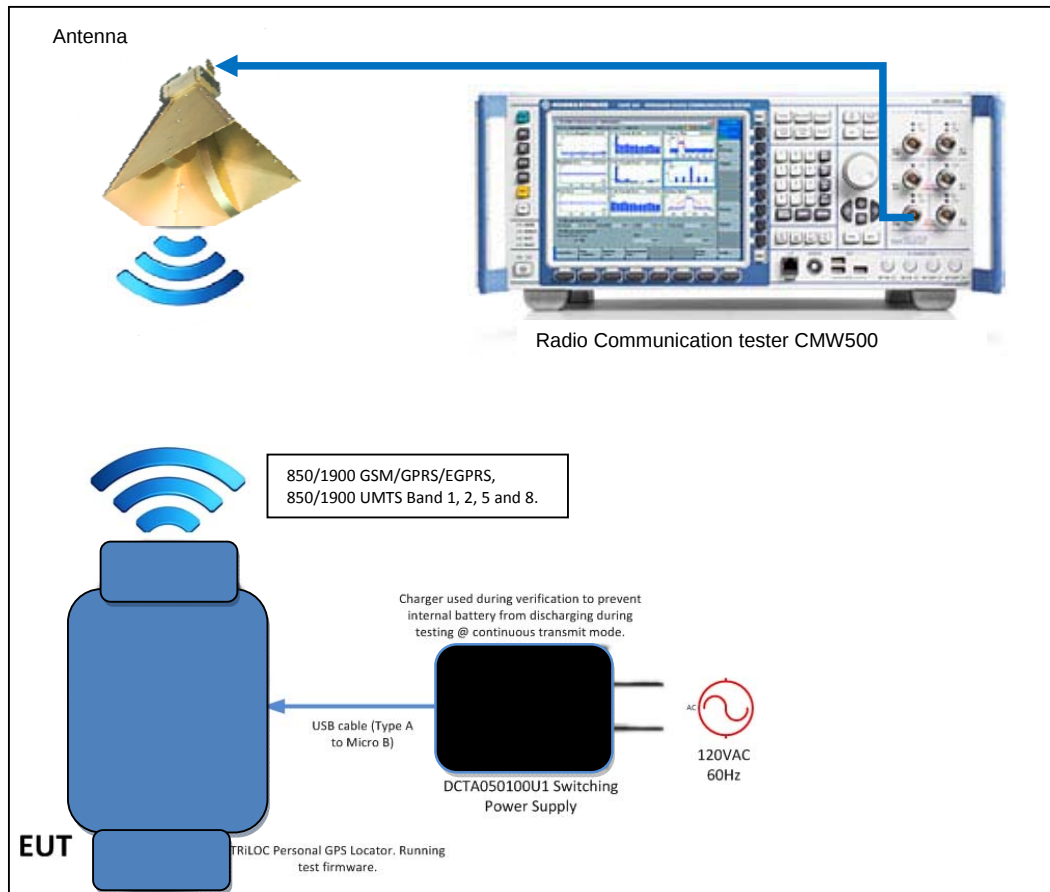
1.4.3 Support Equipment and I/O cables

Manufacturer	Equipment/Cable	Description
-	EUT (USB charger) to EUT (main unit)	1.0 meter, shielded, USB Type A to Micro-B
iLOC	Switching Power Supply	Model No. DCTA050100U1 5VDC @ 1A

1.4.4 Worst Case Configuration

For radiated measurements X, Y and Z orientations were verified. Worst case position is "X". Pictures can be found at the Worst case Configuration test set up photos exhibit.

1.4.5 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 Sample 77		
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 C63.4-2009, 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.

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements by Substitution method were conducted according to ANSI/TIA/EIA-603-C-2004, August 17, 2004. Land Mobile FM or PM -Communications Equipment -Measurement and Performance Standards.

For conducted and 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 C63.4-2009. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.8 TEST FACILITY

1.8.1 FCC – Registration No.: US5296

TUV SUD America Inc. (San Diego), a \$2.498 listed test firm operates the EMC Laboratory registered under Sony Electronics Inc. Product Quality Division EMC. This laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files and the Registration is US5281.

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

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



1.9 SAMPLE CALCULATIONS

1.9.1 GSM Emission Designator

Emission Designator = 250KGXW
 GSM BW = 250 kHz
 G = Phase Modulation
 X = Cases not otherwise covered
 W = Combination (Audio/Data)

1.9.2 WCDMA Emission Designator

Emission Designator = 4M15F9W
 WCDMA BW = 4.15 MHz
 F = Frequency Modulation
 9= Composite Digital Info
 W = Combination (Audio/Data)

1.9.3 CDMA Emission Designator

Emission Designator = 1M30F9W
 F = Frequency Modulation
 9= Composite Digital Info
 W = Combination (Audio/Data)

1.9.4 Spurious Radiated Emission (below 1GHz)

Measuring equipment raw measurement (dBμV/m) @ 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 (dBμV/m) @ 30MHz			11.8

1.9.5 Spurious Radiated Emission – Substitution Method

Example = 84dBμV/m @ 1413 MHz (numerical sample only)

The field strength reading of 84dBμV/m @ 1413 MHz (2nd Harmonic of 706.5 MHz) is the maximized measurement when the EUT is on the turntable measured at 3 meters. The gain of the substituted antenna is 7.8dBi while the transmit cable loss is 1.0 dB (cable between signal generator and the substituted antenna). The signal generator level is adjusted until the 84dBμV/m level at the receiving end is replicated (identical test setup, i.e. same antenna, cable/s and preamp). If the adjusted signal generator level is -18dBm, then we have the following for both EIRP and ERP as required:

$$\begin{aligned}
 P_{\text{EIRP}} &= -18 \text{ dBm} + 7.8 \text{ dBi} - 1 \text{ dB} \\
 &= 11.2 \text{ dBm} \\
 P_{\text{ERP}} &= P_{\text{EIRP}} - 2.15 \text{ dB} \\
 &= 11.2 \text{ dBm} - 2.15 \text{ dB} \\
 &= 9.05 \text{ dBm}
 \end{aligned}$$



SECTION 2

TEST DETAILS

Radio Testing of the
iLOC Technologies
Personal GPS Locator



2.1 TRANSMITTER CONDUCTED POWER MEASUREMENTS

2.1.1 Specification Reference

Part 2.1046

2.1.2 Standard Applicable

The conducted power measurements were made in accordance to FCC Part 2.1046, RSS-132 and RSS-133

2.1.3 Equipment Under Test and Modification State

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

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

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.1.5 Test Equipment Used

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.1.6 Additional Observations

- Test results can be obtained directly from the Cinterion Wireless Module PHS8-P (Reports: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe)



2.2 EFFECTIVE RADIATED POWER

2.2.1 Specification Reference

Part 22 Subpart H §22.913(a)(2)

2.2.2 Standard Applicable

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

2.2.3 Equipment Under Test and Modification State

Serial No: Sample 77 / Test Configuration A

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

March 08, 2013/JMG

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

Ambient Temperature	23.5°C
Relative Humidity	54.5%
ATM Pressure	99.2 kPa

2.2.7 Additional Observations

- The Substitute level reported is the signal generator level with all correction factors (+ transmit antenna gain – transmit cable loss). This level is then converted to ERP using a factor of 2.15.
- The EUT was verified under all configurations.

2.2.8 Test Results

See attached table.



GSM850							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	ERP (dBm)	ERP (Watts)	ERP Limit Watts	Margin Watts
824.2	128.2	28.97	H	30.82	1.208151	7	5.791849
836.6	127	28.07	H	29.62	0.916476	7	6.083524
848.8	125.5	26.27	H	28.12	0.648816	7	6.351184

GPRS850							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	ERP (dBm)	ERP (Watts)	ERP Limit Watts	Margin Watts
824.2	126.5	27.57	H	29.12	0.81681	7	6.18319
836.6	126.5	27.57	H	29.12	0.81681	7	6.18319
848.8	124.5	25.27	H	27.12	0.515373	7	6.484627

EGPRS850							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	ERP (dBm)	ERP (Watts)	ERP Limit Watts	Margin Watts
824.2	119.4	20.17	H	22.02	0.159265	7	6.840735
836.6	118.2	19.27	H	20.82	0.120815	7	6.879185
848.8	116.7	17.47	H	19.32	0.085531	7	6.914469

FDD5							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	ERP (dBm)	ERP (Watts)	ERP Limit Watts	Margin Watts
826.4	114.3	15.37	H	16.92	0.049218	7	6.950782
836.6	110.8	11.87	H	13.42	0.021985	7	6.978015
846.6	110.4	11.17	H	13.02	0.02005	7	6.97995



2.3 EQUIVALENT ISOTROPIC RADIATED POWER

2.3.1 Specification Reference

Part 24 Subpart E §24.234(c)

2.3.2 Standard Applicable

Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.

2.3.3 Equipment Under Test and Modification State

Serial No: Sample 77 / Test Configuration A

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

March 08, 2013/JMG

2.3.5 Test Equipment Used

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

2.3.6 Environmental Conditions

Ambient Temperature	23.5°C
Relative Humidity	54.5%
ATM Pressure	99.2 kPa

2.3.7 Additional Observations

- The Substitute level reported is the signal generator level with all correction factors (+ transmit antenna gain – transmit cable loss).
- The EUT was verified under all configurations.

2.3.8 Test Results

See attached table.



GSM1900							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	EIRP (dBm)	EIRP (Watts)	EIRP Limit (Watts)	Margin (Watts)
1850.2	116.8	16.49	H	21.57	0.143589	2	1.856411
1880.0	121.8	21.49	H	26.57	0.454068	2	1.545932
1909.8	122.6	22.38	H	27.37	0.54591	2	1.45409

GPRS1900							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	EIRP (dBm)	EIRP (Watts)	EIRP Limit (Watts)	Margin (Watts)
1850.2	115.5	15.19	H	20.27	0.106444	2	1.893556
1880.0	120.3	19.99	H	25.07	0.321456	2	1.678544
1909.8	121.1	20.88	H	25.87	0.386475	2	1.613525

EGPRS1900							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	EIRP (dBm)	EIRP (Watts)	EIRP Limit (Watts)	Margin (Watts)
1850.2	112.8	12.49	H	17.57	0.057164	2	1.942836
1880.0	116.6	16.29	H	21.37	0.137126	2	1.862874
1909.8	118.4	18.18	H	23.17	0.207549	2	1.792451

FDD2							
Frequency (MHz)	Measured Level (dBμV/m)	Substitute Level (dBm)	Pol (H/V)	EIRP (dBm)	EIRP (Watts)	EIRP Limit (Watts)	Margin (Watts)
1852.4	111	10.69	H	15.77	0.037768	2	1.962232
1880	112	11.69	H	16.77	0.047547	2	1.952453
1907.6	110.3	10.08	H	15.07	0.032146	2	1.967854



2.4 OCCUPIED BANDWIDTH

2.4.1 Specification Reference

Part 22 Subpart H §22.917(b) and Part 24 Subpart E §24.238(b)

2.4.2 Standard Applicable

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

2.4.3 Equipment Under Test and Modification State

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

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

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.4.5 Test Equipment Used

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.4.6 Additional Observations

- Test results can be obtained directly from the Cinterion Wireless Module PHS8-P (Reports: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe)



2.5 BAND EDGE/CONDUCTED SPURIOUS EMISSIONS

2.5.1 Specification Reference

Part 22 Subpart H §22.917(a) and Part 24 Subpart E §24.238(a)

2.5.2 Standard Applicable

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

2.5.3 Equipment Under Test and Modification State

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

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

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.5.5 Test Equipment Used

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.5.6 Additional Observations

- Test results can be obtained directly from the Cinterion Wireless Module PHS8-P (Reports: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe)



2.6 FIELD STRENGTH OF SPURIOUS RADIATION

2.6.1 Specification Reference

Part 22 Subpart H §22.917(a) and Part 24 Subpart E §24.238(a)

2.6.2 Standard Applicable

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

2.6.3 Equipment Under Test and Modification State

Serial No: Sample 77 / Test Configuration A

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

March 05, 2013/JMG

2.6.5 Test Equipment Used

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

2.6.6 Environmental Conditions

Ambient Temperature	23.1°C
Relative Humidity	44.6%
ATM Pressure	100.1 kPa

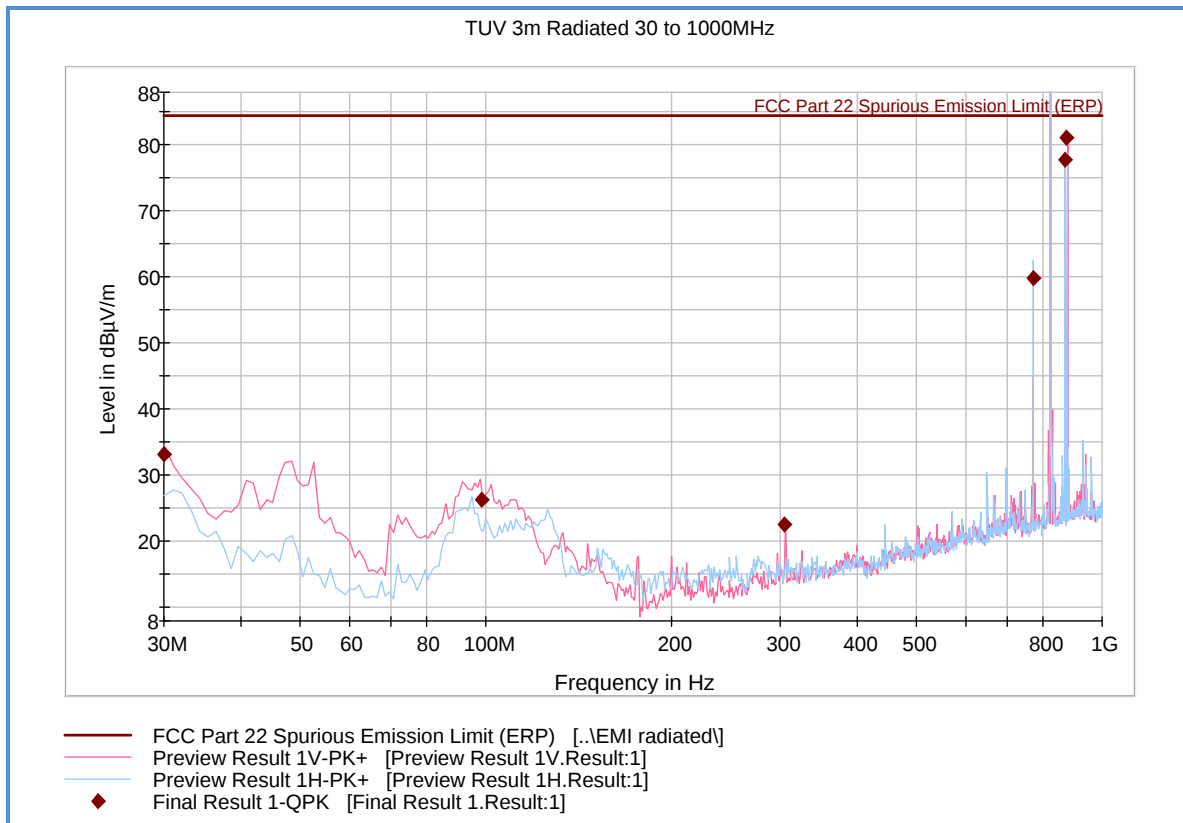
2.6.7 Additional Observations

- This is a radiated test using substitution method as per Unwanted Emissions: Radiated Spurious method of measurement of ANSI/TIA/EIA-603-C 2004, August 17, 2004.
- Only the worst case configuration presented in this test report.
- Measurement was done using EMC32 V8.52 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only.

2.6.8 Test Results

Compliant, See attached plots.

2.6.9 Test Results Below 1GHz (GSM850 Low Ch 128 f824.2M)

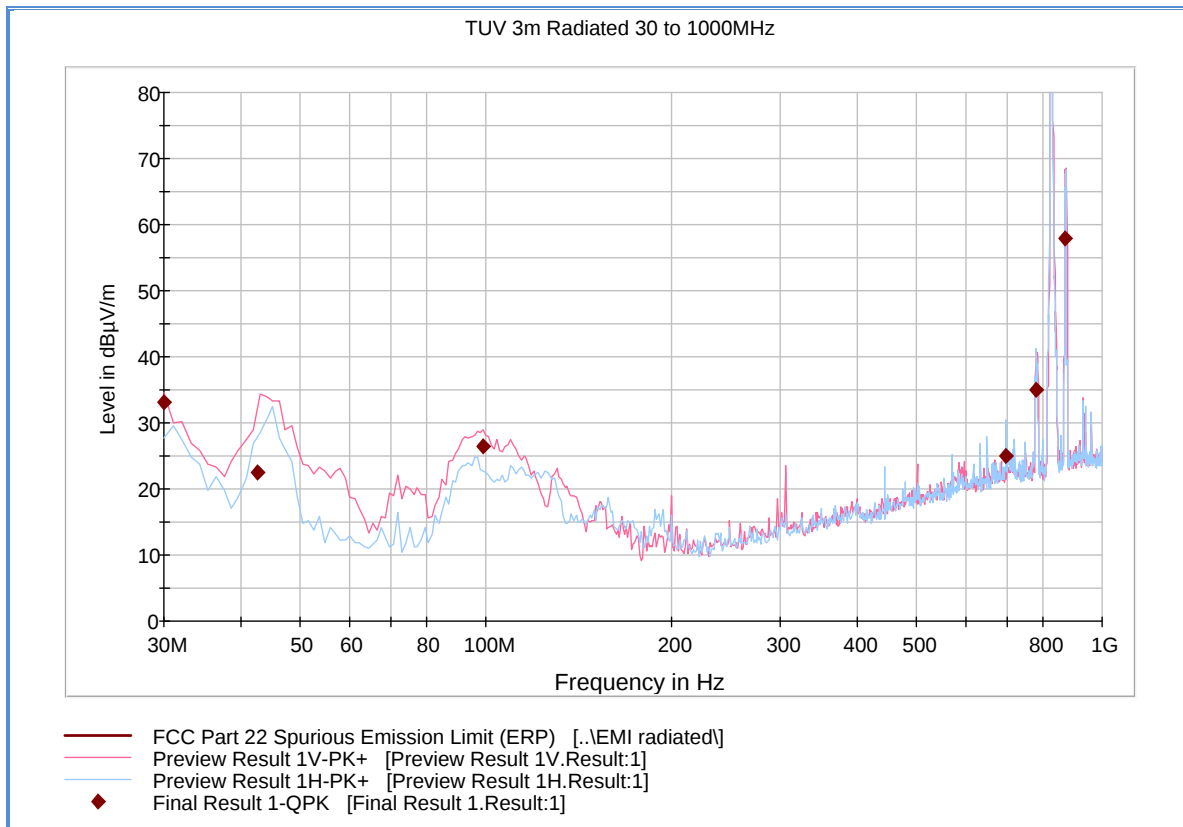


Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.000000	33.1	1000.0	120.000	100.0	V	228.0	-12.6	51.3	84.4
98.460000	26.4	1000.0	120.000	100.0	V	164.0	-22.1	58.0	84.4
305.431111	22.6	1000.0	120.000	100.0	V	219.0	-16.1	61.8	84.4
772.466667	59.9	1000.0	120.000	103.0	H	314.0	-7.6	24.5	84.4
869.266667	77.9	1000.0	120.000	103.0	H	241.0	-6.3	6.5	84.4
875.933333	81.0	1000.0	120.000	100.0	V	5.0	-6.2	3.3	84.4

Test Notes: Only worst case channel presented for spurious emissions below 1GHz. (850 GSM/GPRS/EGPRS)
Fundamental frequency was not calculated (f824.2Mhz) since is out of the scope of this test

2.6.10 Test Results Below 1GHz (FDD5 Low Ch 4132 f826.4M)

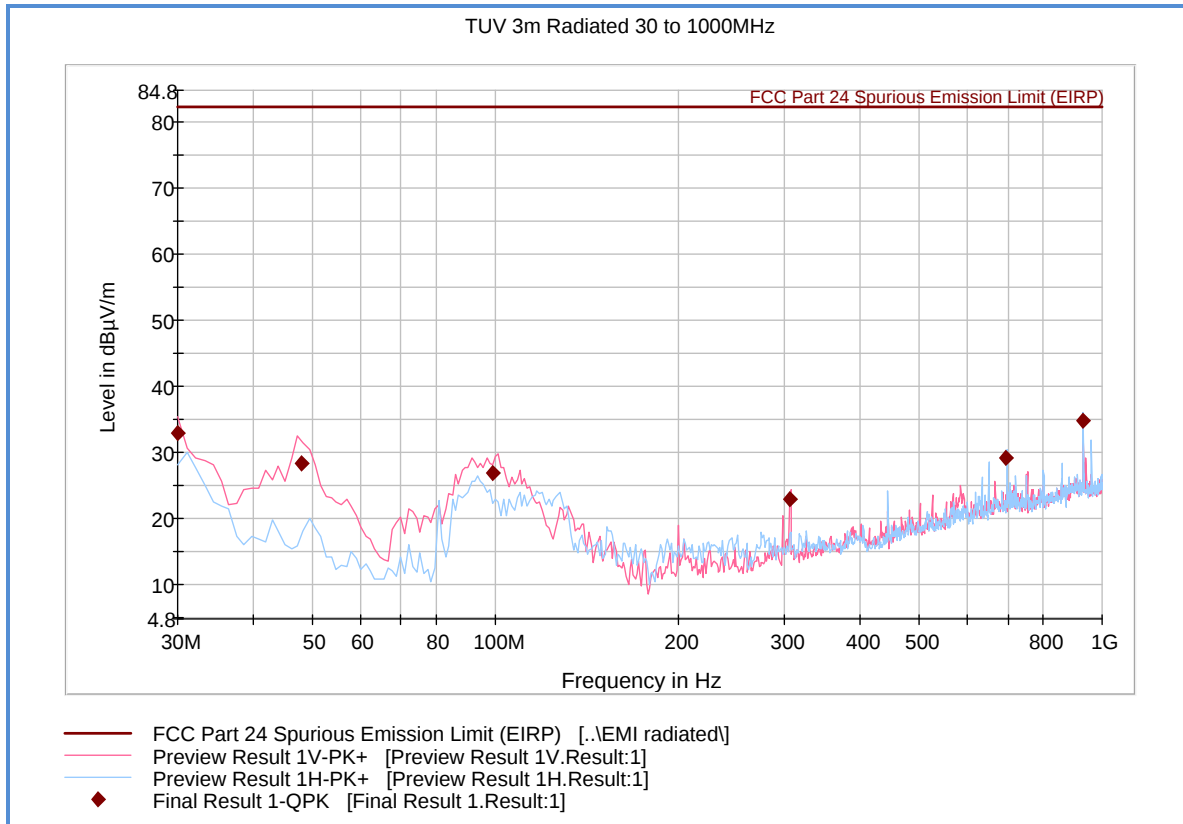


Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.000000	33.2	1000.0	120.000	100.0	V	45.0	-12.6	51.2	84.4
42.533333	22.6	1000.0	120.000	100.0	V	4.0	-19.2	61.8	84.4
98.857778	26.4	1000.0	120.000	100.0	V	156.0	-22.1	58.0	84.4
696.904444	25.0	1000.0	120.000	103.0	H	181.0	-7.7	59.4	84.4
781.686667	35.1	1000.0	120.000	100.0	V	4.0	-7.2	49.3	84.4
872.300000	57.9	1000.0	120.000	100.0	V	28.0	-6.3	26.5	84.4

Test Notes: Only worst case channel presented for spurious emissions below 1GHz. (**FDD5**/FDD8)
Fundamental frequency was not calculated (f826.4Mhz) since is out of the scope of this test

2.6.11 Test Results Below 1GHz (GSM1900 Mid Ch 661 f1880M)

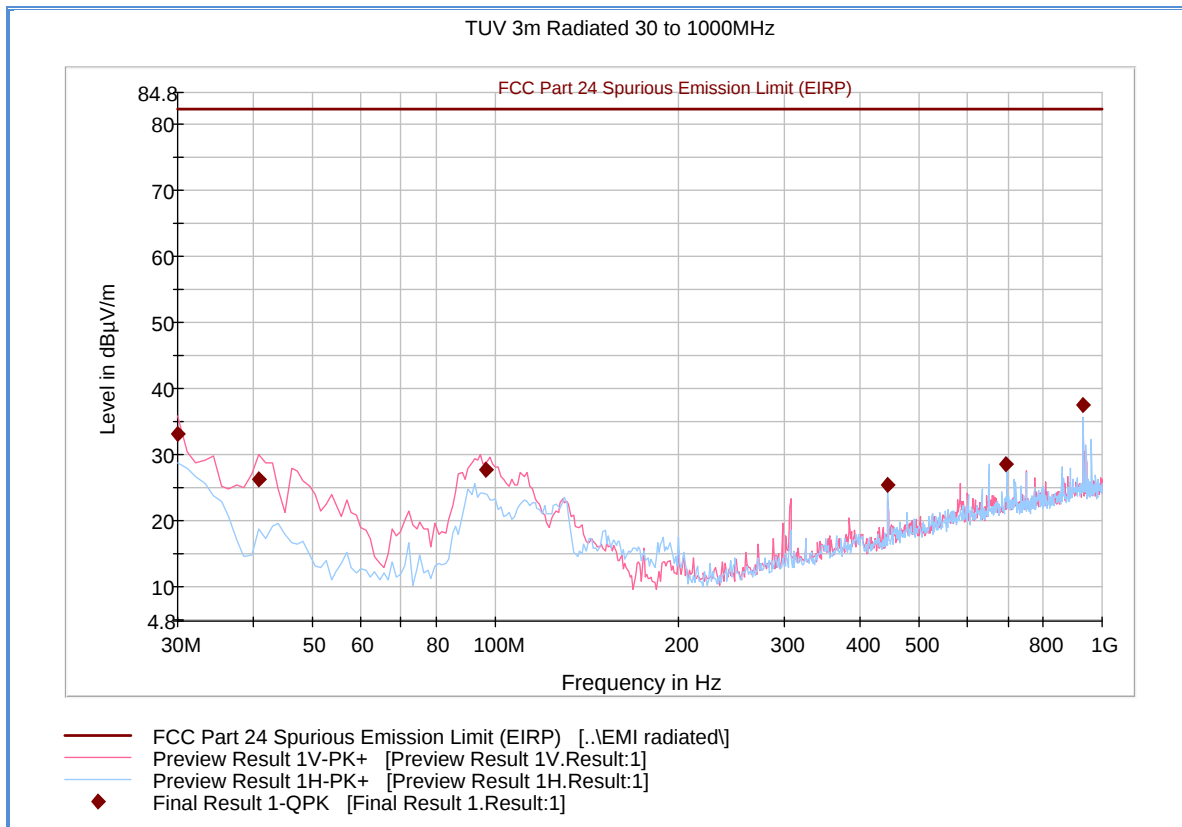


Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.000000	32.9	1000.0	120.000	100.0	V	29.0	-12.6	49.3	82.2
47.924444	28.4	1000.0	120.000	100.0	V	138.0	-20.9	53.8	82.2
99.173333	26.9	1000.0	120.000	100.0	V	173.0	-22.2	55.3	82.2
305.428889	22.9	1000.0	120.000	100.0	V	45.0	-16.1	59.3	82.2
695.704444	29.1	1000.0	120.000	103.0	H	185.0	-7.7	53.1	82.2
929.622222	34.7	1000.0	120.000	103.0	H	137.0	-5.2	47.5	82.2

Test Notes: Only worst case channel presented for spurious emissions below 1GHz. (1900 GSM/ GPRS/EGPRS)

2.6.12 Test Results Below 1GHz (FDD2 Mid Ch 9400 f1880M)

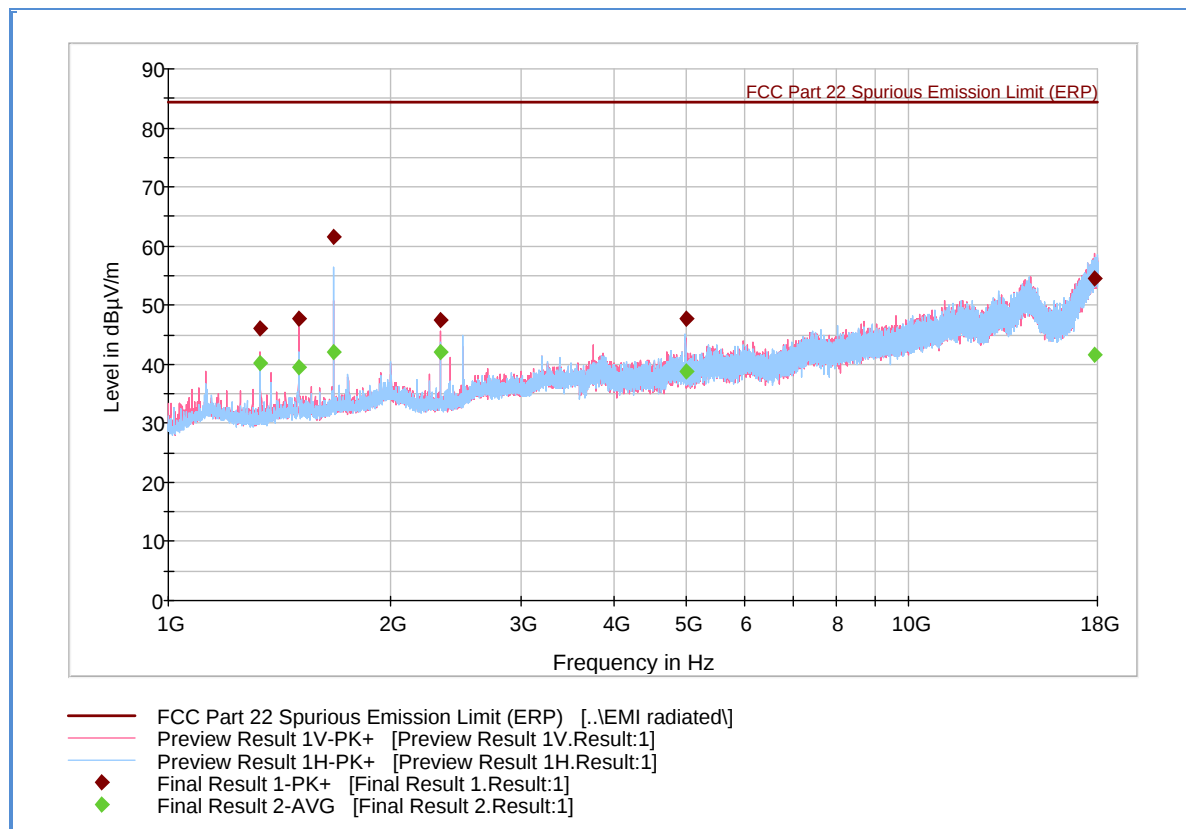


Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
30.000000	33.2	1000.0	120.000	100.0	V	13.0	-12.6	49.0	82.2
40.773333	26.2	1000.0	120.000	100.0	V	149.0	-18.5	56.0	82.2
96.546667	27.7	1000.0	120.000	100.0	V	173.0	-22.1	54.5	82.2
442.666667	25.3	1000.0	120.000	103.0	H	225.0	-13.3	56.9	82.2
695.384444	28.5	1000.0	120.000	103.0	H	190.0	-7.7	53.7	82.2
929.662222	37.4	1000.0	120.000	100.0	V	147.0	-5.2	44.8	82.2

Test Notes: Only worst case channel presented for spurious emissions below 1GHz. (FDD1/FDD2)

2.6.13 Test Results Above 1GHz (GSM850 LowCh128 f824)



Peak Data

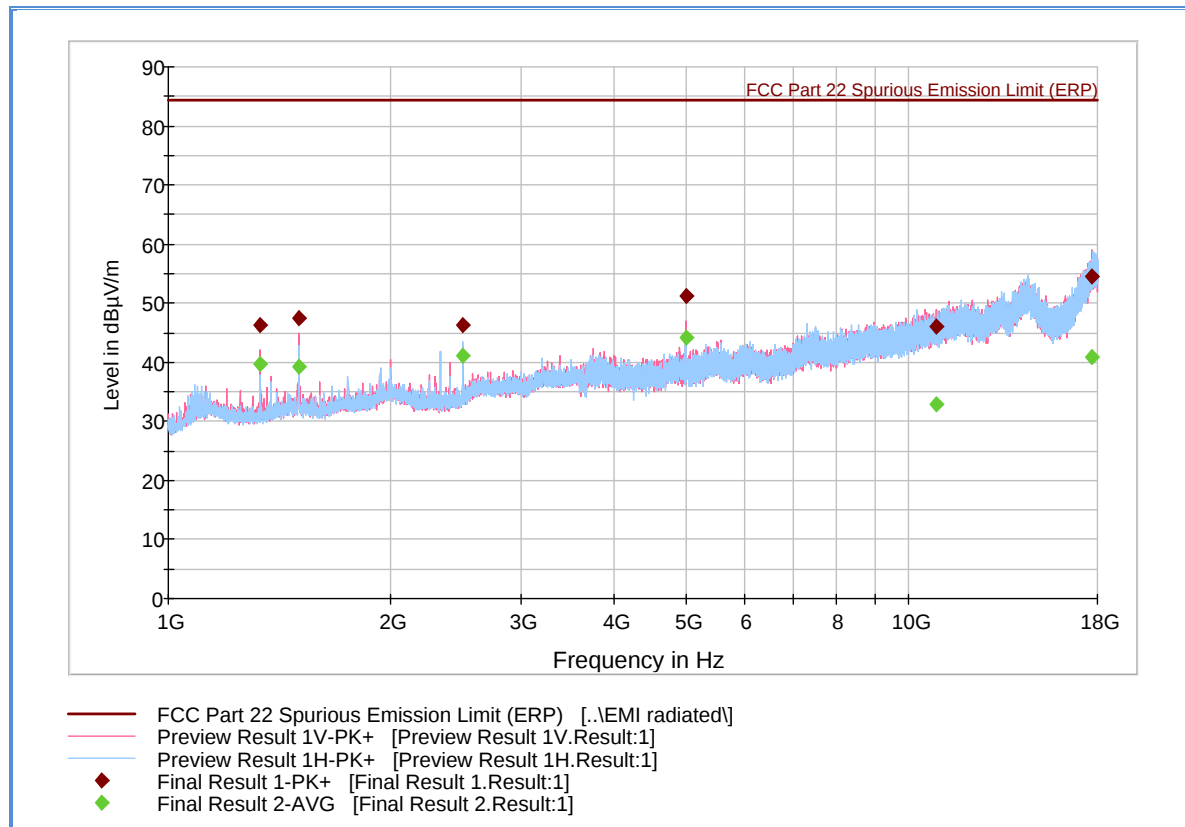
Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.966667	46.1	1000.0	1000.000	109.0	V	189.0	-9.3	38.3	84.4
1500.020000	47.7	1000.0	1000.000	100.0	V	44.0	-9.0	36.7	84.4
1673.866667	61.6	1000.0	1000.000	100.0	H	321.0	-8.3	22.8	84.4
2330.953333	47.5	1000.0	1000.000	100.0	V	343.0	-5.3	36.8	84.4
4999.993333	47.6	1000.0	1000.000	100.0	H	356.0	2.3	36.7	84.4
17850.466667	54.5	1000.0	1000.000	300.0	V	39.0	21.2	29.9	84.4

Substitution Data

Frequency (MHz)	Field Strength @ 3 meters (dBμV/m)	Cable Loss (dB)	Substitution Antenna Gain (dBi)	Signal Generator Level (dBm)	Substitution Data SGL+AG-CL (dBm)	Limit (dBm)	Compliance

Test Notes: Only worst case channel presented for spurious emissions above 1GHz (850 GSM/GPRS/EGPRS). Substitution data not needed since Peak data > 20dB in all peaks.

2.6.14 Test Results Above 1GHz (FDD5 Low Ch 4132 f826.4M)



Peak Data

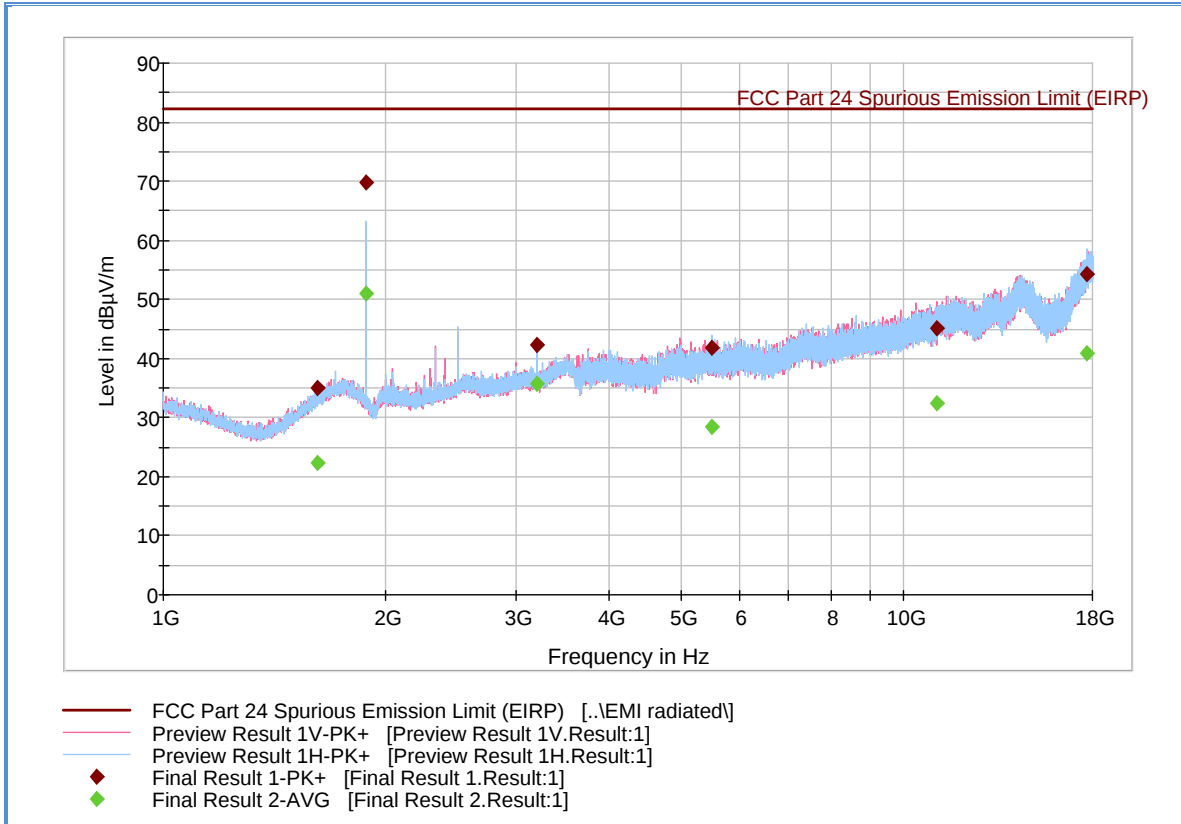
Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1331.960000	46.4	1000.0	1000.000	100.0	V	190.0	-9.3	38.0	84.4
1499.980000	47.4	1000.0	1000.000	100.0	V	45.0	-9.0	37.0	84.4
2500.020000	46.3	1000.0	1000.000	107.0	H	133.0	-4.7	38.1	84.4
5000.000000	51.2	1000.0	1000.000	127.0	V	335.0	2.3	33.2	84.4
10890.740000	46.1	1000.0	1000.000	261.0	V	198.0	11.3	38.3	84.4
17693.986667	54.6	1000.0	1000.000	225.0	V	186.0	20.6	29.8	84.4

Substitution Data

Frequency (MHz)	Field Strength @ 3 meters (dBµV/m)	Cable Loss (dB)	Substitution Antenna Gain (dBi)	Signal Generator Level (dBm)	Substitution Data SGL+AG-CL (dBm)	Limit (dBm)	Compliance

Test Notes: Only worst case channel presented for spurious emissions above 1GHz (**FDD5**). Substitution data not needed since Peak data > 20dB in all peaks.

2.6.15 Test Results Above 1GHz (GSM1900 Mid Ch 661 f1880M)



Peak Data

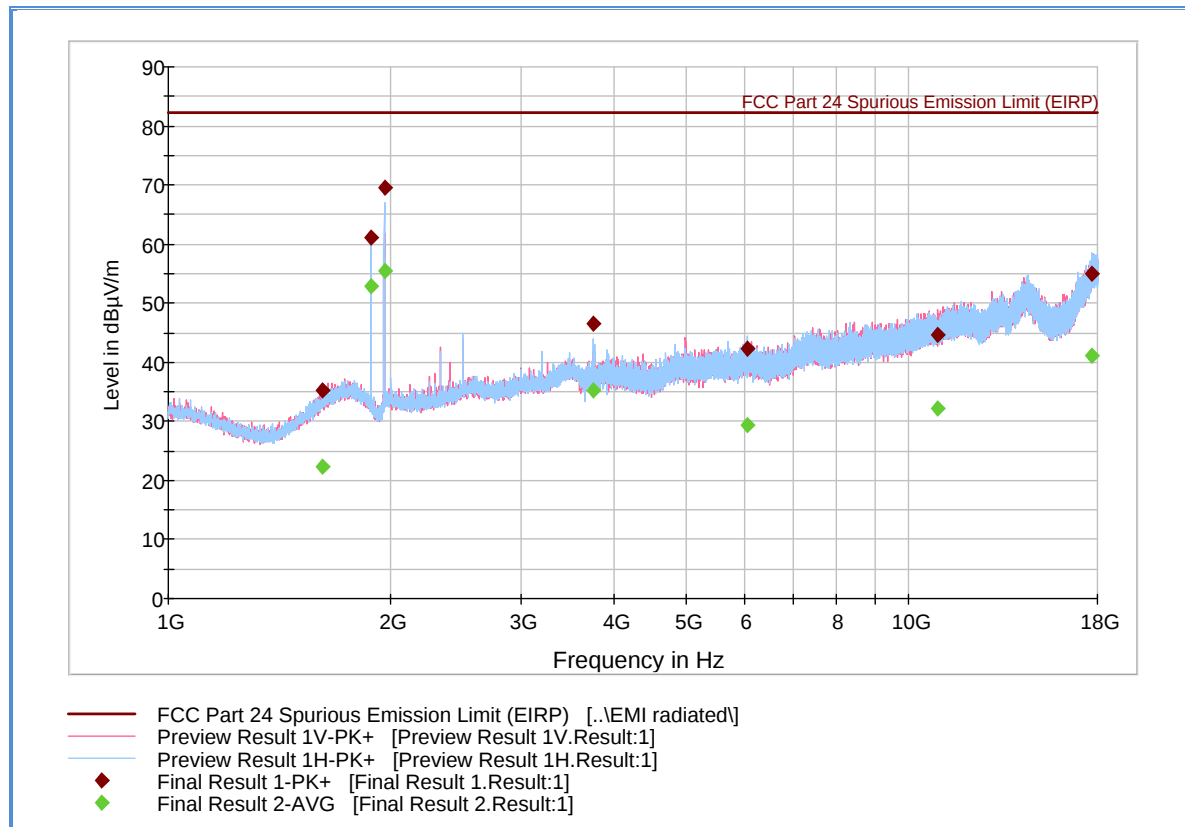
Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1614.533333	35.0	1000.0	1000.000	400.0	H	321.0	-8.8	47.2	82.2
3199.986667	42.2	1000.0	1000.000	100.0	V	45.0	-1.5	40.0	82.2
5520.606667	41.8	1000.0	1000.000	380.0	H	331.0	4.1	40.5	82.2
11074.873333	45.1	1000.0	1000.000	217.0	V	287.0	11.6	37.1	82.2
17707.413333	54.2	1000.0	1000.000	196.0	H	198.0	20.7	28.0	82.2

Substitution Data

Frequency (MHz)	Field Strength @ 3 meters (dBμV/m)	Cable Loss (dB)	Substitution Antenna Gain (dBi)	Signal Generator Level (dBm)	Substitution Data SGL+AG-CL (dBm)	Limit (dBm)	Compliance

Test Notes: Only worst case channel presented for spurious emissions above 1GHz (1900 GSM/ GPRS/EGPRS). Substitution data not needed since Peak data > 20dB in all peaks. Fundamental frequency not showed in peak data table (1880MHZ) since is out of the scope of this test

2.6.16 Test Results Above 1GHz (FDD2 Mid Ch 9400 f1880M)



Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1616.433333	35.2	1000.0	1000.000	389.0	V	37.0	-8.8	47.1	82.2
1960.920000	69.5	1000.0	1000.000	201.0	H	88.0	-6.4	12.8	82.2
3758.553333	46.5	1000.0	1000.000	100.0	H	198.0	0.5	35.7	82.2
6051.526667	42.3	1000.0	1000.000	329.0	H	128.0	4.7	39.9	82.2
10958.500000	44.7	1000.0	1000.000	178.0	V	84.0	11.5	37.5	82.2
17723.113333	55.0	1000.0	1000.000	214.0	H	189.0	20.8	27.3	82.2

Substitution Data

Frequency (MHz)	Field Strength @ 3 meters (dBμV/m)	Cable Loss (dB)	Substitution Antenna Gain (dBi)	Signal Generator Level (dBm)	Substitution Data SGL+AG-CL (dBm)	Limit (dBm)	Margin (dB)
1960.920000	69.5	-3.4	8.285	-30	-25.115	-13	12.115

Test Notes: Only worst case channel presented for spurious emissions above 1GHz (**FDD2**). Substitution data performed for 1960.92.

Fundamental frequency not showed in peak data table (1880MHZ) since is out of the scope of this test.



2.7 FREQUENCY STABILITY

2.7.1 Specification Reference

Part 22 Subpart H §22.355 and Part 24 Subpart E §24.235

2.7.2 Standard Applicable

(§22.355) Except as otherwise provided in this part, the carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C–1 of this section.

Table C–1—Frequency Tolerance for Transmitters in the Public Mobile Services

Frequency range (MHz)	Mobile ≤ 3 watts (ppm)
821 to 896	2.5

(§24.235) The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

2.7.3 Equipment Under Test and Modification State

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

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

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.7.5 Test Equipment Used

See report reference: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe

2.7.6 Additional Observations

- Test results can be obtained directly from the Cinterion Wireless Module PHS8-P (Reports: MDE_CINTE_1108_FCCd and MDE_CINTE_1108_FCCe)



2.8 RECEIVER SPURIOUS EMISSIONS

2.8.1 Specification Reference

RSS-132(4.6) and RSS-133(6.6)

2.8.2 Standard Applicable

Receiver spurious emissions shall comply with the limits specified in RSS-Gen.

2.8.3 Equipment Under Test and Modification State

Serial No: Sample 77 / Test Configuration B

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

February 22nd, 2013/FSC

2.8.5 Test Equipment Used

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

2.8.6 Environmental Conditions

Ambient Temperature	22.1°C
Relative Humidity	32.4%
ATM Pressure	99.5kPa

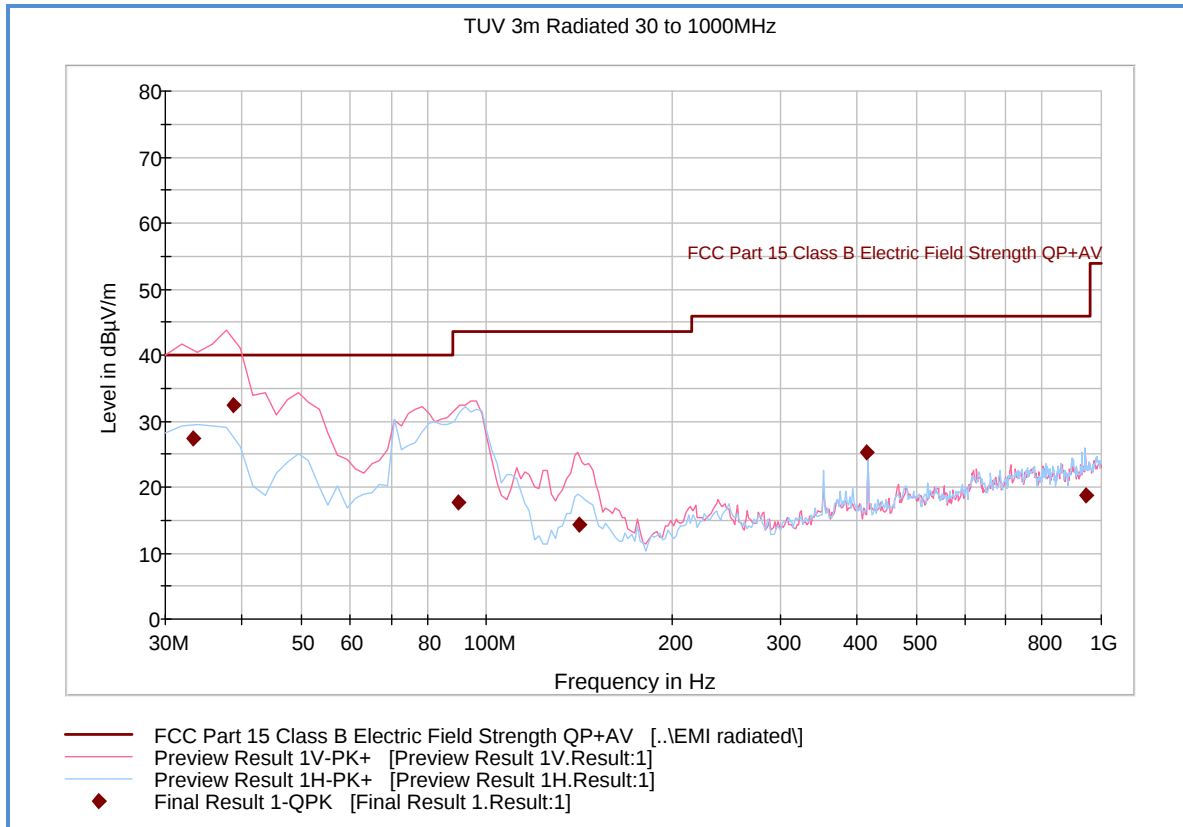
2.8.7 Additional Observations

- This is a radiated test. The spectrum was searched from 30MHz to the 5th harmonic (12.5GHz, up to 18GHz presented) and verified to Class B limits.
- There are no emissions observed above 2GHz, all points presented are noise floor measurements.
- 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 2.2.6 for sample computation.

2.8.8 Test Results

See attached plots.

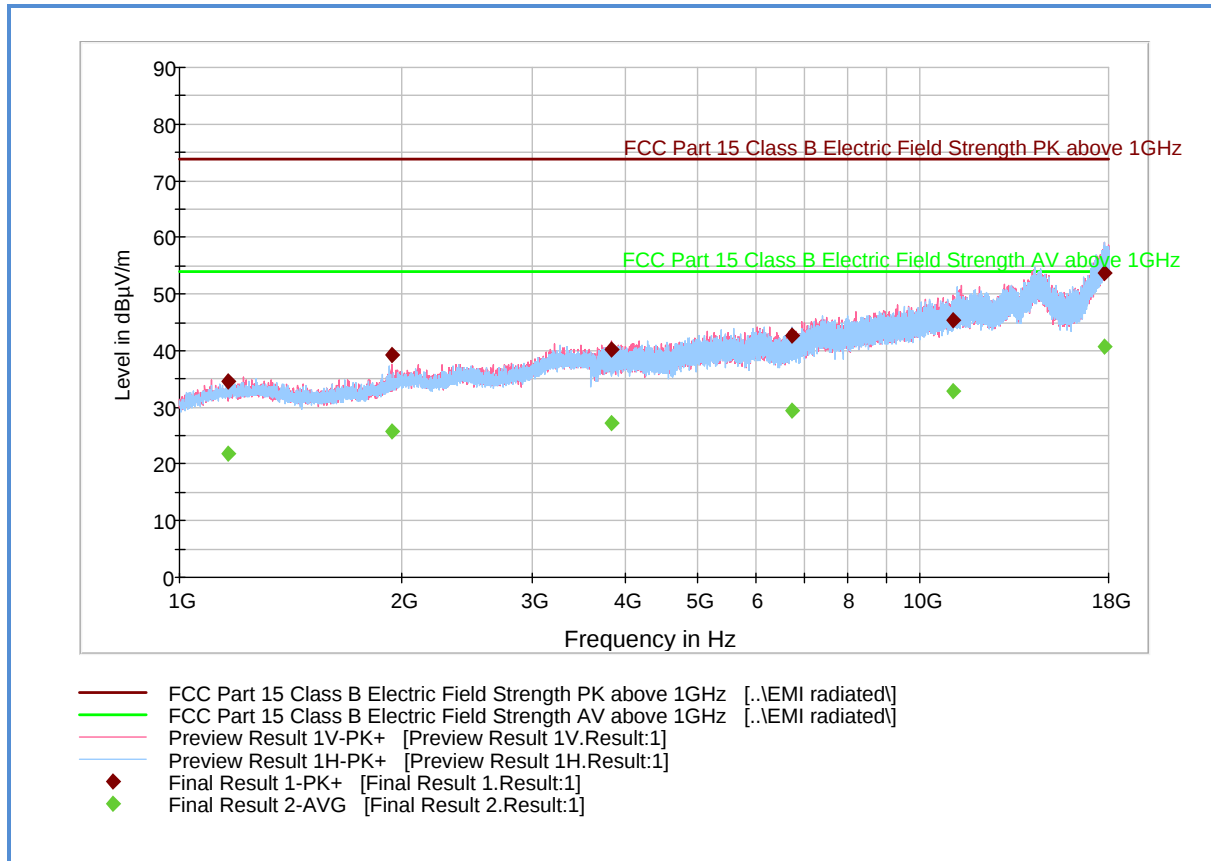
2.8.9 Test Results Below 1GHz (RX Mode)



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)
33.280000	27.4	1000.0	120.000	100.0	V	296.0	-13.7	12.6	40.0
38.735551	32.4	1000.0	120.000	100.0	V	338.0	-16.5	7.6	40.0
89.972745	17.7	1000.0	120.000	144.0	V	342.0	-20.8	25.8	43.5
141.561603	14.4	1000.0	120.000	100.0	V	218.0	-20.2	29.1	43.5
415.993667	25.3	1000.0	120.000	100.0	H	168.0	-9.2	20.8	46.0
942.923367	18.8	1000.0	120.000	160.0	V	358.0	0.2	27.2	46.0

2.8.10 Test Results Above 1GHz (RX mode)



Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1164.520000	34.6	1000.0	1000.000	310.0	V	45.0	-9.9	39.3	73.9
1938.020000	39.3	1000.0	1000.000	400.0	V	27.0	-6.5	34.6	73.9
3829.026667	40.3	1000.0	1000.000	149.0	V	265.0	0.9	33.6	73.9
6712.473333	42.6	1000.0	1000.000	247.0	H	54.0	4.9	31.3	73.9
11074.260000	45.5	1000.0	1000.000	204.0	V	197.0	11.6	28.4	73.9
17735.753333	53.7	1000.0	1000.000	142.0	V	202.0	20.8	20.2	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)
1164.520000	21.7	1000.0	1000.000	310.0	V	45.0	-9.9	32.2	53.9
1938.020000	25.8	1000.0	1000.000	400.0	V	27.0	-6.5	28.1	53.9
3829.026667	27.2	1000.0	1000.000	149.0	V	265.0	0.9	26.7	53.9
6712.473333	29.4	1000.0	1000.000	247.0	H	54.0	4.9	24.5	53.9
11074.260000	32.8	1000.0	1000.000	204.0	V	197.0	11.6	21.1	53.9
17735.753333	40.7	1000.0	1000.000	142.0	V	202.0	20.8	13.2	53.9

Test Notes:



2.9 POWER LINE CONDUCTED EMISSIONS

2.9.1 Specification Reference

RSS-Gen 7.2.4

2.9.2 Standard Applicable

Except when the requirements applicable to a given device state otherwise, for any radio apparatus equipped to operate from the public utility AC power supply, either directly or indirectly (such as with a battery charger), the radio frequency voltage of emissions conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in the table below. The more stringent limit applies at the frequency range boundaries.

The conducted emissions shall be measured with a 50 ohm/50 microhenry line impedance stabilization network (LISN).

Frequency of emission (MHz)	Conducted limit (dBμV)	
	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.*

2.9.3 Equipment Under Test and Modification State

Serial No: Sample 77 / Test Configuration A

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

March 18, 2013/JMG

2.9.5 Test Equipment Used

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

2.9.6 Environmental Conditions

Ambient Temperature	22.4°C
Relative Humidity	50.6%
ATM Pressure	98.9 kPa



2.9.7 Additional Observations

- The EUT is a battery powered device however with provision to connect to public AC mains via supplied AC adapter/charger.
- The EUT was verified using worst case configuration (worst case channel/mode). The EUT was set to transmit max. power while plugged into the AC adapter.
- EUT verified using input voltage of 120VAC 60Hz.
- Limit used is from FCC §15.207 which is identical to RSS-Gen limits.
- Measurement was done using EMC32 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 2.9.8 for sample computation.

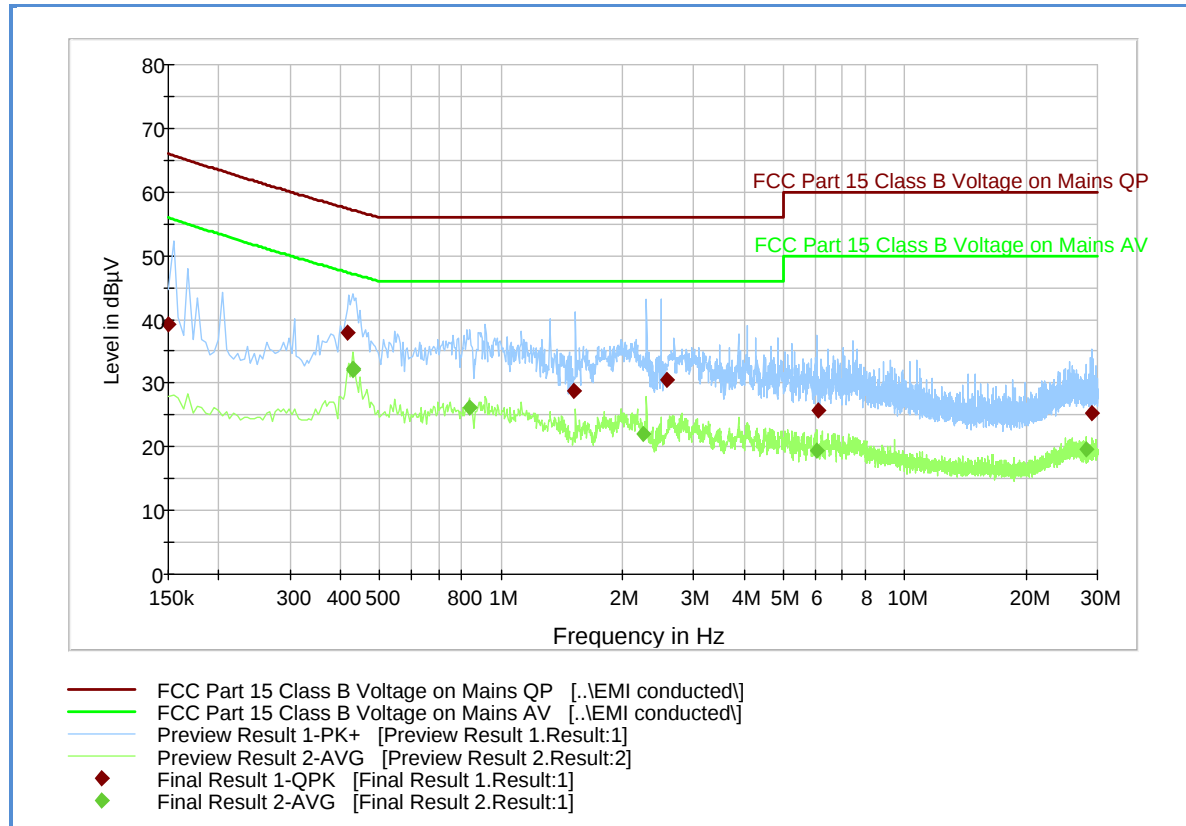
2.9.8 Sample Computation (Conducted Emission – Quasi Peak)

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# 7567 (LISN)	0.30	
Reported QuasiPeak Final Measurement (dbμV) @ 150kHz			26.2

2.9.9 Test Results

Compliant. See attached plots and tables.

2.9.10 Line 1 (Hot) GSM850 Low CH



Quasi Peak

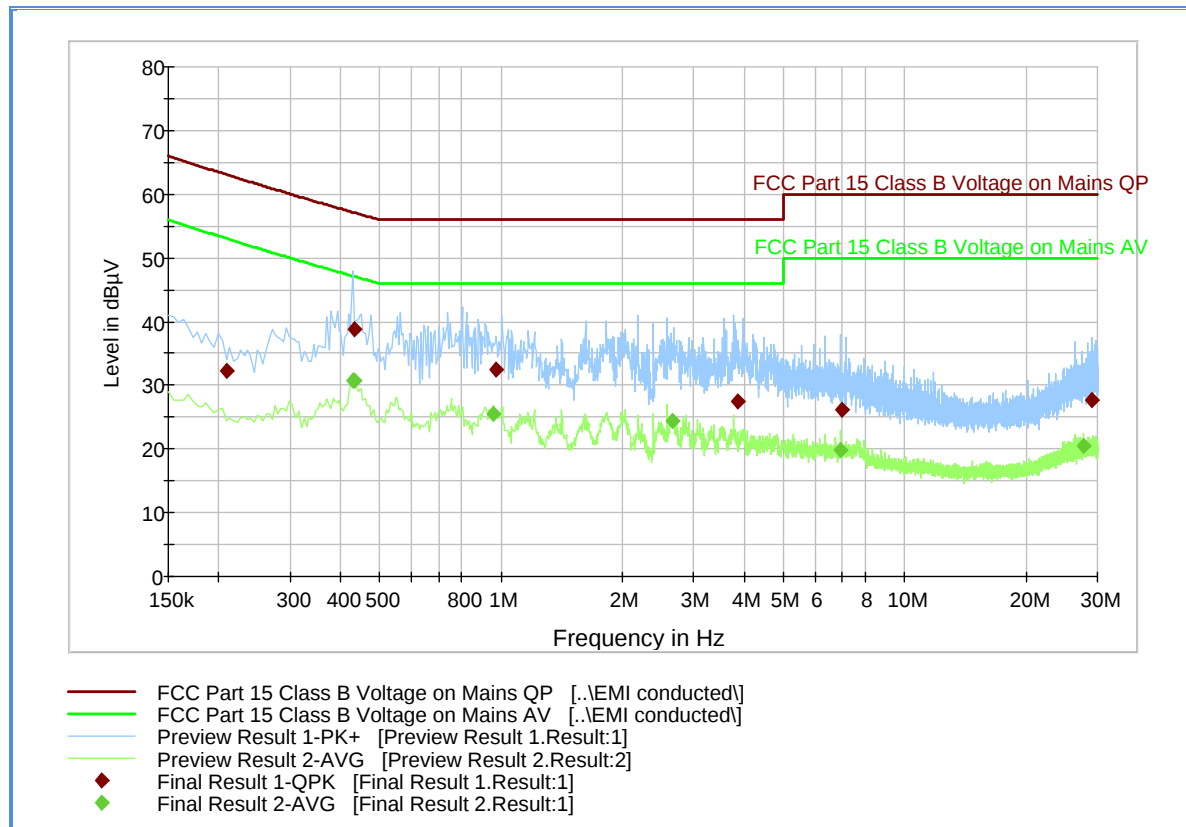
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.150000	39.3	1000.0	9.000	Off	L1	20.4	26.7	66.0
0.415500	38.0	1000.0	9.000	Off	L1	20.2	19.5	57.4
1.518000	28.8	1000.0	9.000	Off	L1	20.3	27.2	56.0
2.580000	30.6	1000.0	9.000	Off	L1	20.3	25.4	56.0
6.099000	25.6	1000.0	9.000	Off	L1	20.4	34.4	60.0
28.963500	25.3	1000.0	9.000	Off	L1	21.6	34.7	60.0

Average

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.429000	32.2	1000.0	9.000	Off	L1	20.2	15.0	47.2
0.429000	32.0	1000.0	9.000	Off	L1	20.2	15.2	47.2
0.834000	26.3	1000.0	9.000	Off	L1	20.2	19.7	46.0
2.242500	22.1	1000.0	9.000	Off	L1	20.3	23.9	46.0
6.036000	19.4	1000.0	9.000	Off	L1	20.4	30.6	50.0
28.261500	19.5	1000.0	9.000	Off	L1	21.5	30.5	50.0

Test Notes: Only worst case channel presented for Power line Conducted emissions (**GSM850**, GPRS850, EGPRS850 & FDD5).

2.9.11 Line 2 (Neutral) GSM850 Low CH



Quasi Peak

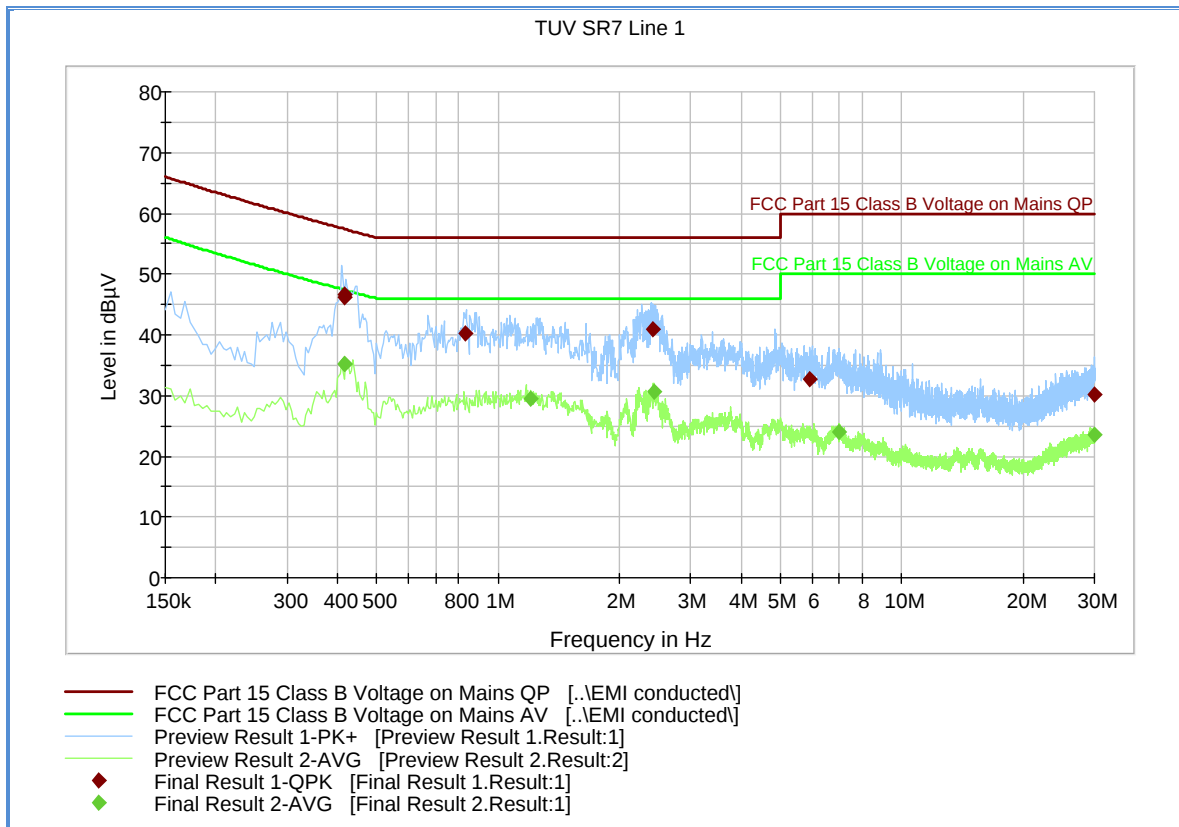
Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)
0.208500	32.2	1000.0	9.000	Off	N	21.1	30.9	63.1
0.433500	38.7	1000.0	9.000	Off	N	21.1	18.4	57.1
0.969000	32.4	1000.0	9.000	Off	N	21.1	23.6	56.0
3.844500	27.6	1000.0	9.000	Off	N	21.2	28.4	56.0
6.963000	26.1	1000.0	9.000	Off	N	21.2	33.9	60.0
29.116500	27.6	1000.0	9.000	Off	N	22.3	32.4	60.0

Average

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBµV)
0.429000	30.7	1000.0	9.000	Off	N	21.1	16.5	47.2
0.433500	30.8	1000.0	9.000	Off	N	21.1	16.3	47.1
0.955500	25.6	1000.0	9.000	Off	N	21.1	20.4	46.0
2.665500	24.4	1000.0	9.000	Off	N	21.1	21.6	46.0
6.918000	19.7	1000.0	9.000	Off	N	21.2	30.3	50.0
27.649500	20.5	1000.0	9.000	Off	N	22.2	29.6	50.0

Test Notes: Only worst case channel presented for Power line Conducted emissions (GSM850, GPRS850, EGPRS850 & FDD5).

2.9.12 Line 1 (Hot) GSM1900 High CH



Quasi Peak

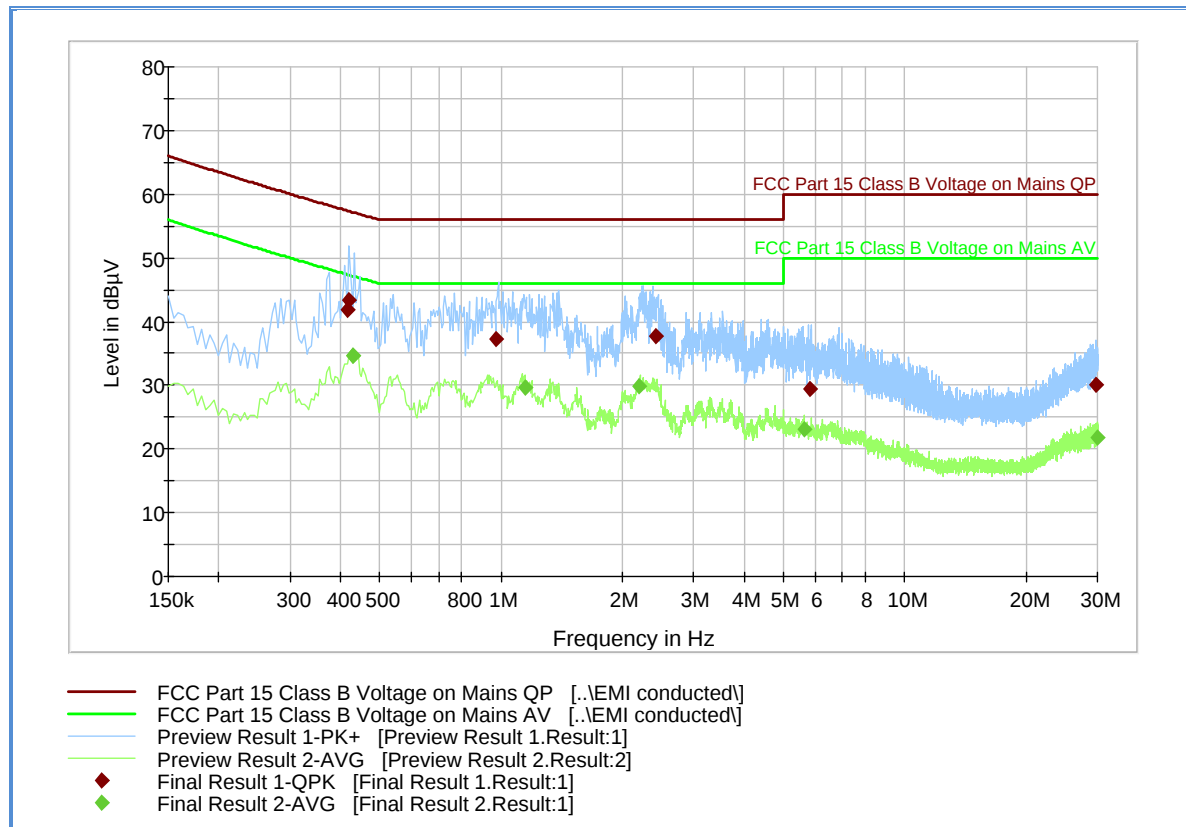
Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.415500	46.2	1000.0	9.000	Off	L1	20.2	11.3	57.4
0.415500	46.7	1000.0	9.000	Off	L1	20.2	10.8	57.4
0.829500	40.3	1000.0	9.000	Off	L1	20.2	15.7	56.0
2.422500	40.9	1000.0	9.000	Off	L1	20.3	15.1	56.0
5.928000	32.7	1000.0	9.000	Off	L1	20.4	27.3	60.0
29.913000	30.3	1000.0	9.000	Off	L1	21.6	29.7	60.0

Average

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.415500	35.2	1000.0	9.000	Off	L1	20.2	12.2	47.4
0.415500	35.2	1000.0	9.000	Off	L1	20.2	12.2	47.4
1.203000	29.5	1000.0	9.000	Off	L1	20.3	16.5	46.0
2.431500	30.7	1000.0	9.000	Off	L1	20.3	15.3	46.0
6.972000	24.1	1000.0	9.000	Off	L1	20.4	25.9	50.0
29.998500	23.4	1000.0	9.000	Off	L1	21.6	26.6	50.0

Test Notes: Only worst case channel presented for Power line Conducted emissions (GSM1900, GPRS1900, EGPRS1900 & FDD2).

2.9.13 Line 2 (Neutral) GSM1900 High CH



Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.415500	41.9	1000.0	9.000	Off	N	21.1	15.6	57.4
0.420000	43.4	1000.0	9.000	Off	N	21.1	13.9	57.3
0.973500	37.3	1000.0	9.000	Off	N	21.1	18.7	56.0
2.418000	37.7	1000.0	9.000	Off	N	21.1	18.3	56.0
5.820000	29.3	1000.0	9.000	Off	N	21.2	30.7	60.0
29.863500	30.0	1000.0	9.000	Off	N	22.3	30.0	60.0

Average

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.429000	34.7	1000.0	9.000	Off	N	21.1	12.5	47.2
0.429000	34.7	1000.0	9.000	Off	N	21.1	12.5	47.2
1.149000	29.7	1000.0	9.000	Off	N	21.1	16.3	46.0
2.206500	30.0	1000.0	9.000	Off	N	21.1	16.0	46.0
5.622000	23.1	1000.0	9.000	Off	N	21.2	26.9	50.0
29.886000	21.7	1000.0	9.000	Off	N	22.3	28.3	50.0

Test Notes: Only worst case channel presented for Power line Conducted emissions (GSM1900, GPRS1900, EGPRS1900 & FDD2).



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 Port Setup						
1049	EMI Test Receiver	ESU	100133	Rhode & Schwarz	06/13/12	06/13/13
7568	LISN	FCC-LISN-50-25-2-10	120305	Fischer Custom Comm.	05/24/12	05/24/13
8607	20dB Attenuator	CAT-20	N/A	MCL HAT-20	08/21/12	08/21/13
8609	20dB Attenuator	CAT-20	N/A	MCL HAT-20	08/21/12	08/21/13
Radiated Test Setup						
1033	Bilog Antenna	3142C	00044556	EMCO	05/23/12	05/23/13
1051	Double-ridged waveguide horn antenna	3115	9408-4329	EMCO	05/24/12	05/24/13
8628	Pre-amplifier	QLJ 01182835-JO	8986002	QuinStar Technologies Inc.	09/21/12	09/21/13
8543	High-frequency cable	Micropore 19057793	N/A	United Microwave Products	09/21/12	09/21/13
1040	EMI Test Receiver	ESIB40	100292	Rhode & Schwarz	08/10/12	08/10/13
1049	EMI Test Receiver	ESU	100133	Rhode & Schwarz	06/13/12	06/13/13
1016	Pre-amplifier	PAM-0202	187	PAM	09/24/12	09/24/13
Miscellaneous						
7560	Barometer/Temperature /Humidity Transmitter	iBTHX-W	1240476	Omega	11/19/12	11/19/13
	Test Software	EMC32	V8.52	Rhode & Schwarz	N/A	

3.2 MEASUREMENT UNCERTAINTY

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

3.2.1 Radiated Emission 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	3.55	2.05	4.20
6	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					2.23
Coverage Factor (k):					2
Expanded Uncertainty:					4.45

3.2.2 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	3.55	2.05	4.20
6	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					2.22
Coverage Factor (k):					2
Expanded Uncertainty:					4.44

3.2.3 Conducted Antenna Port Measurement

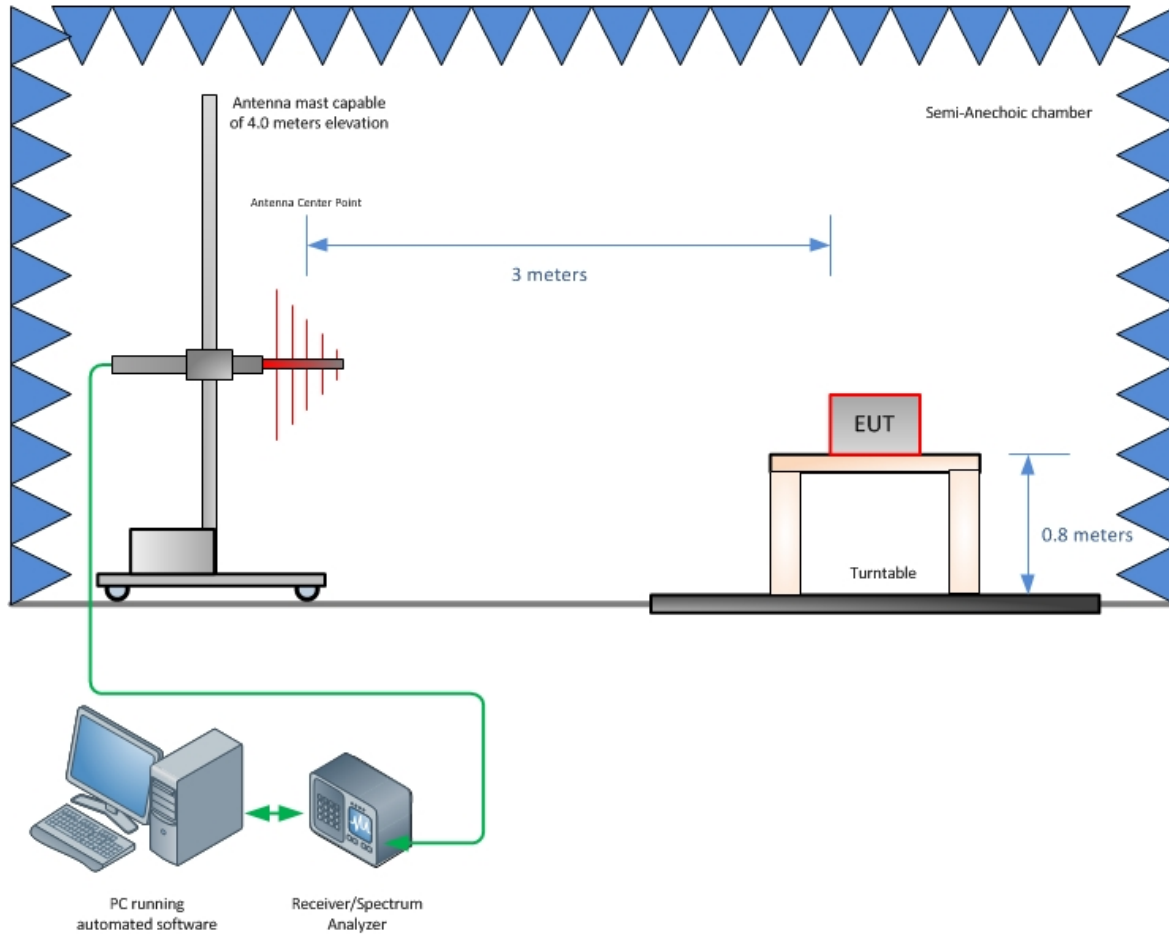
Contribution		Probability Distribution Type	Probability Distribution x_i	Standard Uncertainty $u(x_i)$	$[u(x_i)]^2$
1	Receiver/Spectrum Analyzer	Rectangular	0.57	0.33	0.11
2	Cables	Rectangular	0.50	0.29	0.08
3	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					0.72
Coverage Factor (k):					2
Expanded Uncertainty:					1.45



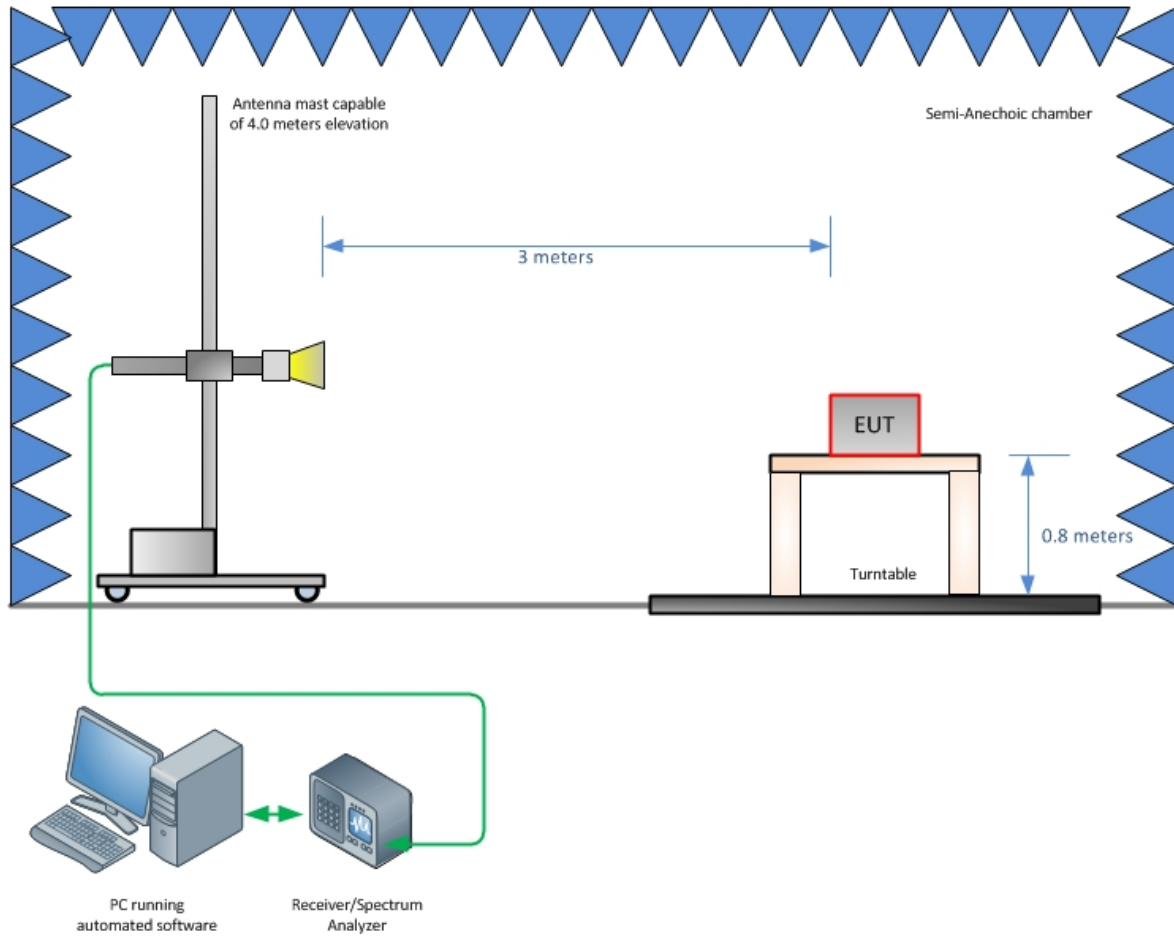
SECTION 4

DIAGRAM OF TEST SETUP

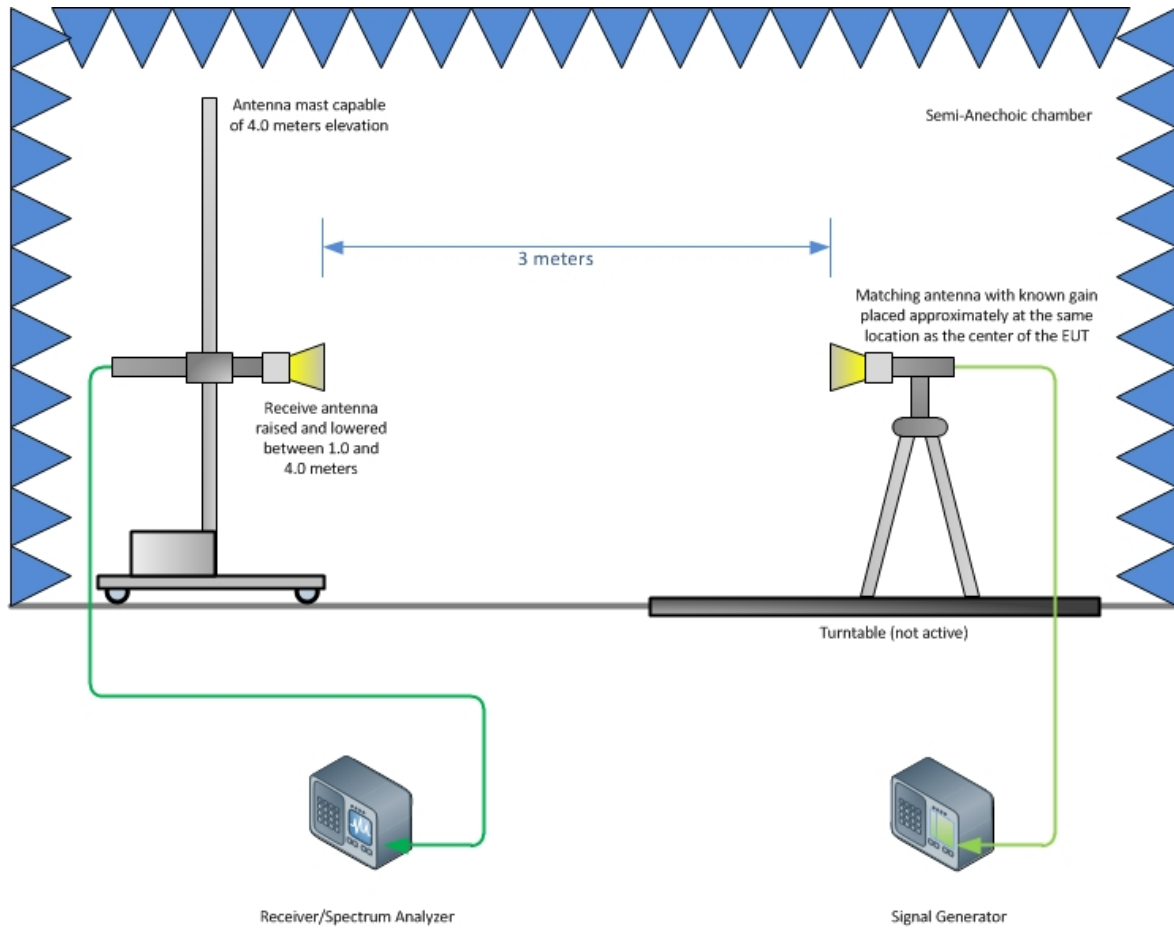
4.1 TEST SETUP DIAGRAM



Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



Substitution Test Method (Above 1GHz)



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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