

EMC Test Report

Application for Grant of Equipment Authorization Class II Permissive Change/Reassessment Industry Canada RSS-Gen Issue 4 / RSS 247 Issue 1 FCC Part 15, Subpart E Model: APINM210

IC CERTIFICATION #: 4675A-APINM210

> FCC ID: Q9DAPINM210

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1.0	August 25, 2016	Updated power/psd measurement procedure. Clarified output power for UNII2c	MEH
2.0	August 31, 2016	Clarified Applicant on the title page	MEH



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SCOPE

An electromagnetic emissions test has been performed on the Ericsson Canada model APINM210, pursuant to the following rules:

Industry Canada RSS-Gen Issue 4 RSS 247 Issue 1 "Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices" FCC Part 15, Subpart E requirements for UNII Devices

Conducted and radiated emissions data has been collected, reduced, and analyzed within this report in accordance with measurement guidelines set forth in the following reference standards and as outlined in National Technical Systems - Silicon Valley test procedures:

ANSI C63.10-2013 FCC General UNII Test Procedures KDB789033

The intentional radiator above has been tested in a simulated typical installation to demonstrate compliance with the relevant Industry Canada performance and procedural standards.

Final system data was gathered in a mode that tended to maximize emissions by varying orientation of EUT, orientation of power and I/O cabling, antenna search height, and antenna polarization.

Every practical effort was made to perform an impartial test using appropriate test equipment of known calibration. All pertinent factors have been applied to reach the determination of compliance.

OBJECTIVE

The primary objective of the manufacturer is compliance with the regulations outlined in the previous section.

Prior to marketing in the USA, all unlicensed transmitters and transceivers require certification. Receive-only devices operating between 30 MHz and 960 MHz are subject to either certification or a manufacturer's declaration of conformity, with all other receive-only devices exempt from the technical requirements.

Prior to marketing in Canada, Class I transmitters, receivers and transceivers require certification. Class II devices are required to meet the appropriate technical requirements but are exempt from certification requirements.

Certification is a procedure where the manufacturer submits test data and technical information to a certification body and receives a certificate or grant of equipment authorization upon successful completion of the certification body's review of the submitted documents. Once the equipment authorization has been obtained, the label



indicating compliance must be attached to all identical units, which are subsequently manufactured.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product which may result in increased emissions should be checked to ensure compliance has been maintained (i.e., printed circuit board layout changes, different line filter, different power supply, harnessing or I/O cable changes, etc.).

STATEMENT OF COMPLIANCE

The tested sample of Ericsson Canada model APINM210 complied with the requirements of the following regulations:

RSS 247 Issue 1 "Digital Transmission Systems (DTSs), Frequency Hopping Systems (FHSs) and Licence-Exempt Local Area Network (LE-LAN) Devices" FCC Part 15, Subpart E requirements for UNII Devices

Maintenance of compliance is the responsibility of the manufacturer. Any modifications to the product should be assessed to determine their potential impact on the compliance status of the device with respect to the standards detailed in this test report.

The test results recorded herein are based on a single type test of Ericsson Canada model APINM210 and therefore apply only to the tested sample. The sample was selected and prepared by Nancy Langford of Ericsson Canada.

DEVIATIONS FROM THE STANDARDS

No deviations were made from the published requirements listed in the scope of this report.

TEST RESULTS SUMMARY

UNII / LELAN DEVICES

Operation in the 5.25 – 5.35 GHz Band

Speration in the 5.25 – 5.55 GHz Band					
FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.407(a) (2)		26dB Bandwidth	>20MHz for all modes	N/A – limits output power if < 20MHz	N/A
15.407(a) (2)	RSS-247 6.2.2 (1)	Output Power	a: 23.0dBm (198mW) n20: 23.3dBm (213mW) n40: 23.7dBm (237mW) ac80: 19.5dBm (90mW)	24dBm (250mW)	Complies
15.407(a) (2)	-	Power Spectral Density	a: 10.9 mW/MHz n20: 10.8dBm/MHz	11 dBm/MHz	Complies
-	RSS-247 6.2.2 (1)	Power Spectral Density	n40: 8.3dBm/MHz ac80: 2.6dBm/MHz	11 dBm / MHz	Complies

Operation in the 5.47 – 5.725 GHz Band

FCC	RSS		Measured Value /		Result
Rule Part	Rule Part	Description	Comments	Limit / Requirement	(margin)
15.407(a) (2)		26dB Bandwidth	>20MHz for all modes	N/A – limits output power if < 20MHz	N/A
15.407(a) (2)	-	Output Power	a: 23.1dBm (204mW) n20: 23.1dBm (203mW) n40: 23.5dBm (224mW) ac80: 23.7dBm (235mW)	24dBm (250mW)	Complies
-	RSS-247 6.2.3 (1)	Output Power	a: 23.1dBm (204mW) n20: 23.1dBm (203mW) n40: 23.5dBm (224mW) ac80: 23.4dBm (217mW)	24dBm (250mW)	Complies
15.407(a) (2))	-	Power Spectral Density	a: 10.9dBm/MHz n20: 11.0dBm/MHz n40: 8.7dBm/MHz ac80: 5.4dBm/MHz	11 dBm/MHz	Complies
-	RSS-247 6.2.3 (1)	Power Spectral Density	a: 10.9dBm/MHz n20: 11.0dBm/MHz n40: 8.7dBm/MHz ac80: 5.3dBm/MHz	11 dBm / MHz	Complies
-	RSS-247 6.2.3	Non-operation in 5600 – 5650 MHz sub band	Device cannot operate in the 5600 – 5650 MHz band –refer to Operational Description		Complies

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Requirements for all U-NII/LELAN bands

Requirements :	tor all U-NII/L	ELAN bands			
FCC Rule Part	RSS Rule Part	Description	Measured Value / Comments	Limit / Requirement	Result
15.407	RSS 247 6.1	Modulation	Unchang	ged from original filing	
15.407(b) / 15.209	RSS 247 6.0	Spurious Emissions	53.0 dBµV/m @ 5357.5 MHz (-1.0 dB)	Refer to page 21	Complies
	RSS 247 6.4 (1)	Channel Selection	Spurious emissions tested at outermost channels in each band	Device was tested on the top, bottom and center channels in	N/A
15			Measurements on three channels in each band	each band	Complies
15.407 (c)	RSS 247 6.4 (2)	Operation in the absence of information to transmit	Unchanç	ged from original filing	
15.407 (g)	-	Frequency Stability	Unchang	ged from original filing	
15.407 (h)(1)	RSS-247 6.2.2 (1) and 6.2.3(1)	Transmit Power Control	TCP mechanism is discussed in the Operational Description TPC is not required as the device operates at below 500mW eirp	The U-NII device shall have the capability to operate with a mean EIRP value lower than 24dBm (250mW)	Complies
15.407 (h)(2)	RSS-247 6.3	Dynamic frequency Selection (device with radar detection)	Refer to separate test report	Threshold -62dBm (-64dBm if eirp > 200mW) Channel Availability Check > 60s Channel closing transmission time < 260ms Channel move time < 10s Non occupancy period > 30minutes	Complies
	RSS-247 6.3 (5)	User manual information	Refer to manual for details	Warning regarding interference from Satellite Systems	Complies

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GENERAL REQUIREMENTS APPLICABLE TO ALL BANDS

FCC Rule Part	RSS Rule part	Description	Measured Value / Comments	Limit / Requirement	Result (margin)
15.203	-	RF Connector	Unchang	ged from original filing	
15.207	RSS GEN Table 3	AC Conducted Emissions	Unchanç	ged from original filing	
15.247 (b) (5) 15.407 (f)	RSS 102	RF Exposure Requirements	Refer to MPE calculations in separate exhibit, RSS 102 declaration and User Manual statements.	Refer to OET 65, FCC Part 1 and RSS 102	Complies
-	RSS GEN 8.3	User Manual	-	Statement for products with detachable antenna	Complies
-	RSP 100 RSS GEN 6.6	Occupied Bandwidth	a: 17.2 MHz n20: 18.4 MHz n40: 37.2 MHz ac80: 75.7 MHz	Information only	N/A



MEASUREMENT UNCERTAINTIES

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level and were calculated in accordance with UKAS document LAB 34.

Measurement Type	Measurement Unit	Frequency Range	Expanded Uncertainty
RF power, conducted (power meter)	dBm	25 to 7000 MHz	± 0.52 dB
RF power, conducted (Spectrum analyzer)	dBm	25 to 7000 MHz	± 0.7 dB
Conducted emission of transmitter	dBm	25 to 26500 MHz	± 0.7 dB
Conducted emission of receiver	dBm	25 to 26500 MHz	± 0.7 dB
Radiated emission (substitution method)	dBm	25 to 26500 MHz	± 2.5 dB
Dadiated amission (field strangth)	dDu\//m	25 to 1000 MHz	± 3.6 dB
Radiated emission (field strength)	dBμV/m	1000 to 40000 MHz	± 6.0 dB
Conducted Emissions (AC Power)	dΒμV	0.15 to 30 MHz	± 2.4 dB

EQUIPMENT UNDER TEST (EUT) DETAILS

GENERAL

The Ericsson Canada model APINM210 is an IEEE 802.11 a/b/g/n wireless module that operates in both the 2.4 GHz and 5 GHz bands. The module supports n20, n40 and ac80 modes.

This test report covers 5250 - 5350 MHz and 5475 – 5725 MHz bands of operation.

The sample was received on November 19, 2015 and tested on November 23, 24, 25 and December 2, 3, 4, 7, 8, 17, 2015. The EUT consisted of the following component(s):

Company	Model	Description	Serial Number	FCC ID
Aruba	APINM210	Radio Module	-	Q9DAPINM210

OTHER EUT DETAILS

The radiated emission tests were performed with the host unit.

ANTENNA SYSTEM

PCB trace, integral antennas (3 chains)

ENCLOSURE

The EUT has no enclosure. It is designed to be installed within the enclosure of a host unit

MODIFICATIONS

No modifications were made to the EUT during the time the product was at NTS Silicon Valley.

SUPPORT EQUIPMENT

No local support equipment was used during testing.

The following equipment was used as remote support equipment for emissions testing:

Company	Model	Description	Serial Number	FCC ID
Dell	LATITUDE E5440	Laptop Computer	HMPNP12	-
Dell	LA65NM130	AC Adaptor	CN-0JNKWD-72438	-

EUT INTERFACE PORTS

The I/O cabling configuration during testing was as follows:

Port	Connected To		Cable(s)	
TOIL	Connected 10	Description	Shielded or Unshielded	Length(m)
Ethernet	Laptop Computer	Cat5e Ethernet	Unshielded	10
DC Power	AC Adaptor	Two-wire	Unshielded	1
AC Adaptor	AC Mains	Three-wire	Unshielded	1

EUT OPERATION

During testing, the EUT was configured to continuously transmit at maximum output power and noted data rate on the channel indicated.

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TEST SITE

GENERAL INFORMATION

Final test measurements were taken at the test sites listed below. Pursuant to section 2.948 of the FCC's Rules and section 3.3 of RSP-100, construction, calibration, and equipment data has been filed with the Commission and with industry Canada.

Site	Designation / Reg	Location	
Sile	FCC	Canada	Location
Chamber 4	US0027	2845B-4	41039 Boyce Road
Chamber 5	US0027	2845B-5	Fremont,
Chamber 7	US0027	2845B-7	CA 94538-2435

ANSI C63.4 recommends that ambient noise at the test site be at least 6 dB below the allowable limits. Ambient levels are below this requirement. The test site(s) contain separate areas for radiated and conducted emissions testing. Considerable engineering effort has been expended to ensure that the facilities conform to all pertinent requirements of ANSI C63.4.

CONDUCTED EMISSIONS CONSIDERATIONS

Conducted emissions testing is performed in conformance with ANSI C63.10. Measurements are made with the EUT connected to the public power network through a nominal, standardized RF impedance, which is provided by a line impedance stabilization network, known as a LISN. A LISN is inserted in series with each current-carrying conductor in the EUT power cord.

RADIATED EMISSIONS CONSIDERATIONS

The FCC has determined that radiation measurements made in a shielded enclosure are not suitable for determining levels of radiated emissions. Radiated measurements are performed in an open field environment or in a semi-anechoic chamber. The test sites are maintained free of conductive objects within the CISPR defined elliptical area incorporated in ANSI C63.4 guidelines and meet the Normalized Site Attenuation (NSA) requirements of ANSI C63.4.

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MEASUREMENT INSTRUMENTATION

RECEIVER SYSTEM

An EMI receiver as specified in CISPR 16-1-1 is used for emissions measurements. The receivers used can measure over the frequency range of 9 kHz up to 2000 MHz. These receivers allow both ease of measurement and high accuracy to be achieved. The receivers have Peak, Average, and CISPR (Quasi-peak) detectors built into their design so no external adapters are necessary. The receiver automatically sets the required bandwidth for the CISPR detector used during measurements. If the repetition frequency of the signal being measured is below 20Hz, peak measurements are made in lieu of Quasi-Peak measurements.

For measurements above the frequency range of the receivers, a spectrum analyzer is utilized because it provides visibility of the entire spectrum along with the precision and versatility required to support engineering analysis. Average measurements above 1000MHz are performed on the spectrum analyzer using the linear-average method with a resolution bandwidth of 1 MHz and a video bandwidth of 10 Hz, unless the signal is pulsed in which case the average (or video) bandwidth of the measuring instrument is reduced to onset of pulse desensitization and then increased.

INSTRUMENT CONTROL COMPUTER

The receivers utilize either a Rohde & Schwarz EZM Spectrum Monitor/Controller or contain an internal Spectrum Monitor/Controller to view and convert the receiver measurements to the field strength at an antenna or voltage developed at the LISN measurement port, which is then compared directly with the appropriate specification limit. This provides faster, more accurate readings by performing the conversions described under Sample Calculations within the Test Procedures section of this report. Results are printed in a graphic and/or tabular format, as appropriate. A personal computer is used to record all measurements made with the receivers. The software used for radiated and conducted emissions measurements is NTS EMI Test Software (rev 2.10)

The Spectrum Monitor provides a visual display of the signal being measured. In addition, the controller or a personal computer run automated data collection programs which control the receivers. This provides added accuracy since all site correction factors, such as cable loss and antenna factors are added automatically.

LINE IMPEDANCE STABILIZATION NETWORK (LISN)

Line conducted measurements utilize a fifty microhenry Line Impedance Stabilization Network as the monitoring point. The LISN used also contains a 250 uH CISPR adapter. This network provides for calibrated radio frequency noise measurements by the design of the internal low pass and high pass filters on the EUT and measurement ports, respectively.

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FILTERS/ATTENUATORS

External filters and precision attenuators are often connected between the receiving antenna or LISN and the receiver. This eliminates saturation effects and non-linear operation due to high amplitude transient events.

ANTENNAS

A loop antenna is used below 30 MHz. For the measurement range 30 MHz to 1000 MHz either a combination of a biconical antenna and a log periodic or a bi-log antenna is used. Above 1000 MHz, horn antennas are used. The antenna calibration factors to convert the received voltage to an electric field strength are included with appropriate cable loss and amplifier gain factors to determine an overall site factor, which is then programmed into the test receivers or incorporated into the test software.

ANTENNA MAST AND EQUIPMENT TURNTABLE

The antennas used to measure the radiated electric field strength are mounted on a non-conductive antenna mast equipped with a motor-drive to vary the antenna height. Measurements below 30 MHz are made with the loop antenna at a fixed height of 1m above the ground plane.

ANSI C63.10 specifies that the test height above ground for table mounted devices shall be 80 centimeters. Floor mounted equipment shall be placed on the ground plane if the device is normally used on a conductive floor or separated from the ground plane by insulating material from 3 to 12 mm if the device is normally used on a non-conductive floor as specified in ANSI C63.4. During radiated measurements, the EUT is positioned on a motorized turntable in conformance with this requirement.

INSTRUMENT CALIBRATION

All test equipment is regularly checked to ensure that performance is maintained in accordance with the manufacturer's specifications. All antennas are calibrated at regular intervals with respect to tuned half-wave dipoles. An exhibit of this report contains the list of test equipment used and calibration information.

TEST PROCEDURES

EUT AND CABLE PLACEMENT

The regulations require that interconnecting cables be connected to the available ports of the unit and that the placement of the unit and the attached cables simulate the worst case orientation that can be expected from a typical installation, so far as practicable. To this end, the position of the unit and associated cabling is varied within the guidelines of ANSI C63.10, and the worst-case orientation is used for final measurements.

CONDUCTED EMISSIONS

Conducted emissions are measured at the plug end of the power cord supplied with the EUT. Excess power cord length is wrapped in a bundle between 30 and 40 centimeters in length near the center of the cord. Preliminary measurements are made to determine the highest amplitude emission relative to the specification limit for all the modes of operation. Placement of system components and varying of cable positions are performed in each mode. A final peak mode scan is then performed in the position and mode for which the highest emission was noted on all current carrying conductors of the power cord.

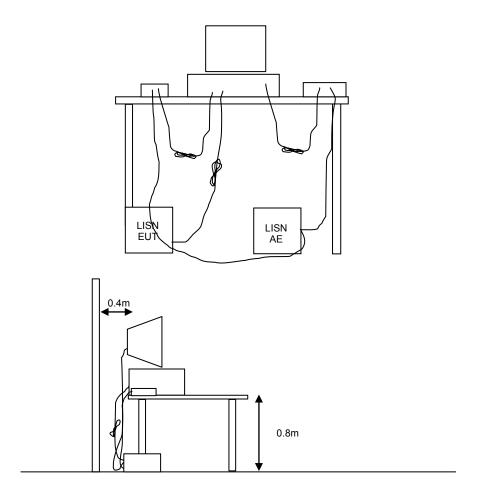


Figure 1 Typical Conducted Emissions Test Configuration

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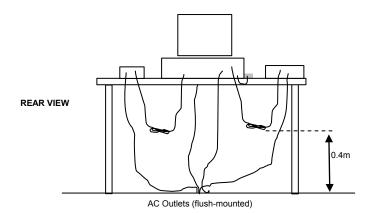
RADIATED EMISSIONS

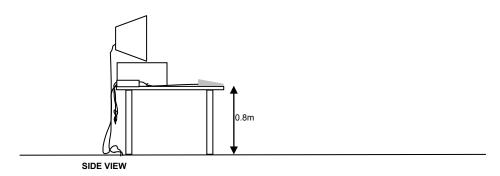
A preliminary scan of the radiated emissions is performed in which all significant EUT frequencies are identified with the system in a nominal configuration. At least two scans are performed, one scan for each antenna polarization (horizontal and vertical; loop parallel and perpendicular to the EUT). During the preliminary scans, the EUT is rotated through 360°, the antenna height is varied (for measurements above 30 MHz) and cable positions are varied to determine the highest emission relative to the limit. Preliminary scans may be performed in a fully anechoic chamber for the purposes of identifying the frequencies of the highest emissions from the EUT.

A speaker is provided in the receiver to aid in discriminating between EUT and ambient emissions. Other methods used during the preliminary scan for EUT emissions involve scanning with near field magnetic loops, monitoring I/O cables with RF current clamps, and cycling power to the EUT.

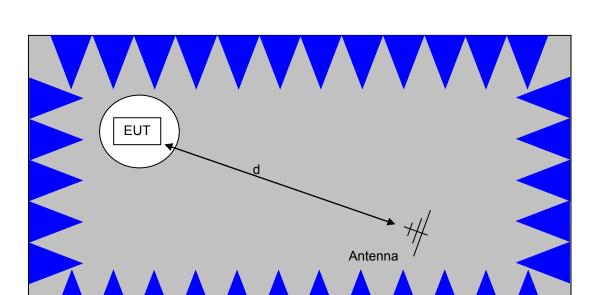
Final maximization is a phase in which the highest amplitude emissions identified in the spectral search are viewed while the EUT azimuth angle is varied from 0 to 360 degrees relative to the receiving antenna. The azimuth, which results in the highest emission is then maintained while varying the antenna height from one to four meters (for measurements above 30 MHz, measurements below 30 MHz are made with the loop antenna at a fixed height of 1m). The result is the identification of the highest amplitude for each of the highest peaks. Each recorded level is corrected in the receiver using appropriate factors for cables, connectors, antennas, and preamplifier gain.

When testing above 18 GHz, the receive antenna is located at 1meter from the EUT and the antenna height is restricted to a maximum of 2.5 meters.



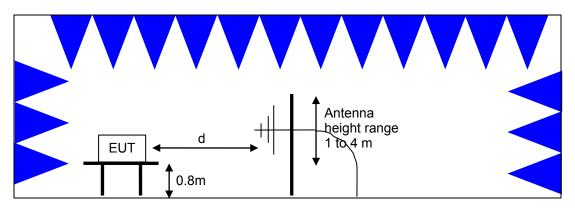


Typical Test Configuration for Radiated Field Strength Measurements



The anechoic materials on the walls and ceiling ensure compliance with the normalized site attenuation requirements of CISPR 16 / CISPR 22 / ANSI C63.4 for an alternate test site at the measurement distances used.

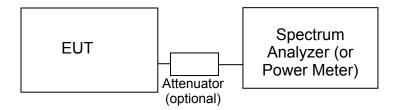
Floor-standing equipment is placed on the floor with insulating supports between the unit and the ground plane.



<u>Test Configuration for Radiated Field Strength Measurements</u> <u>Semi-Anechoic Chamber, Plan and Side Views</u>

CONDUCTED EMISSIONS FROM ANTENNA PORT

Direct measurements of power, bandwidth and power spectral density are performed, where possible, with the antenna port of the EUT connected to either the power meter or spectrum analyzer via a suitable attenuator and/or filter. These are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission.



<u>Test Configuration for Antenna Port Measurements</u>

Measurement bandwidths (video and resolution) are set in accordance with the relevant standards and NTS Silicon Valley's test procedures for the type of radio being tested. When power measurements are made using a resolution bandwidth less than the signal bandwidth the power is calculated by summing the power across the signal bandwidth using either the analyzer channel power function or by capturing the trace data and calculating the power using software. In both cases the summed power is corrected to account for the equivalent noise bandwidth (ENBW) of the resolution bandwidth used.

If power averaging is used (typically for certain digital modulation techniques), the EUT is configured to transmit continuously. Power averaging is performed using either the built-in function of the analyzer or, if the analyzer does not feature power averaging, using external software. In both cases the average power is calculated over a number of sweeps (typically 100). When the EUT cannot be configured to continuously transmit then either the analyzer is configured to perform a gated sweep to ensure that the power is averaged over periods that the device is transmitting or power averaging is disabled and a max-hold feature is used.

If a power meter is used to make output power measurements the sensor head type (peak or average) is stated in the test data table.

BANDWIDTH MEASUREMENTS

The 6dB, 20dB, 26dB and/or 99% signal bandwidth are measured using the bandwidths recommended by ANSI C63.10 and RSS GEN.

SPECIFICATION LIMITS AND SAMPLE CALCULATIONS

The limits for conducted emissions are given in units of microvolts, and the limits for radiated emissions are given in units of microvolts per meter at a specified test distance. Data is measured in the logarithmic form of decibels relative to one microvolt, or dB microvolts (dBuV). For radiated emissions, the measured data is converted to the field strength at the antenna in dB microvolts per meter (dBuV/m). The results are then converted to the linear forms of uV and uV/m for comparison to published specifications.

For reference, converting the specification limits from linear to decibel form is accomplished by taking the base ten logarithm, then multiplying by 20. These limits in both linear and logarithmic form are as follows:

CONDUCTED EMISSIONS SPECIFICATION LIMITS: FCC 15.207; FCC 15.107(a), RSS GEN

The table below shows the limits for the emissions on the AC power line from an intentional radiator and a receiver.

Frequency (MHz)	Average Limit (dBuV)	Quasi Peak Limit (dBuV)
0.150 to 0.500	Linear decrease on logarithmic frequency axis between 56.0 and 46.0	Linear decrease on logarithmic frequency axis between 66.0 and 56.0
0.500 to 5.000	46.0	56.0
5.000 to 30.000	50.0	60.0

GENERAL TRANSMITTER RADIATED EMISSIONS SPECIFICATION LIMITS

The table below shows the limits for the spurious emissions from transmitters that fall in restricted bands¹ (with the exception of transmitters operating under FCC Part 15 Subpart D and RSS 210 Annex 9), the limits for all emissions from a low power device operating under the general rules of RSS 310 (tables 3 and 4), RSS 210 (table 2) and FCC Part 15 Subpart C section 15.209.

Frequency Range (MHz)	Limit (uV/m)	Limit (dBuV/m @ 3m)
0.009-0.490	2400/F _{KHz} @ 300m	67.6-20*log ₁₀ (F _{KHz}) @ 300m
0.490-1.705	24000/F _{KHz} @ 30m	87.6-20*log ₁₀ (F _{KHz}) @ 30m
1.705 to 30	30 @ 30m	29.5 @ 30m
30 to 88	100 @ 3m	40 @ 3m
88 to 216	150 @ 3m	43.5 @ 3m
216 to 960	200 @ 3m	46.0 @ 3m
Above 960	500 @ 3m	54.0 @ 3m

RECEIVER RADIATED SPURIOUS EMISSIONS SPECIFICATION LIMITS

The table below shows the limits for the spurious emissions from receivers as detailed in FCC Part 15.109, RSS 210 Table 2, RSS GEN Table 1 and RSS 310 Table 3. Note that receivers operating outside of the frequency range 30 MHz – 960 MHz are exempt from the requirements of 15.109.

Frequency Range (MHz)	Limit (uV/m @ 3m)	Limit (dBuV/m @ 3m)
30 to 88	100	40
88 to 216	150	43.5
216 to 960	200	46.0
Above 960	500	54.0

FCC 15.407 (a) OUTPUT POWER LIMITS

The table below shows the limits for output power and output power density. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

Operating Frequency (MHz)	Output Power	Power Spectral Density
5150 - 5250	50mW (17 dBm)	4 dBm/MHz
5250 – 5350	250 mW (24 dBm)	11 dBm/MHz
5725 – 5825	1 Watts (30 dBm)	17 dBm/MHz

 $^{^{1}}$ The restricted bands are detailed in FCC 15.203, RSS 210 Table 1 and RSS 310 Table 2

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For system using antennas with gains exceeding 6dBi, the output power and power spectral density limits are reduced by 1dB for every dB the antenna gain exceeds 6dBi. Fixed point-to-point applications using the 5725 – 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

The peak excursion envelope is limited to 13dB.

OUTPUT POWER LIMITS -LELAN DEVICES

The table below shows the limits for output power and output power density defined by RSS 210. Where the signal bandwidth is less than 20 MHz the maximum output power is reduced to the power spectral density limit plus 10 times the log of the bandwidth (in MHz).

Operating Frequency (MHz)	Output Power	Power Spectral Density
5150 – 5250	200mW (23 dBm) eirp	10 dBm/MHz eirp
5250 – 5350	250 mW (24 dBm)2 1W (30dBm) eirp	11 dBm/MHz
5470 – 5725	250 mW (24 dBm)3 1W (30dBm) eirp	11 dBm/MHz
5725 – 5825	1 Watts (30 dBm) 4W eirp	17 dBm/MHz

In addition, the power spectral density limit shall be reduced by 1dB for every dB the highest power spectral density exceeds the "average" power spectral density) by more than 3dB. The "average" power spectral density is determined by dividing the output power by $10\log(EBW)$ where EBW is the 99% power bandwidth.

Fixed point-to-point applications using the 5725 – 5825 MHz band may use antennas with gains of up to 23dBi without this limitation. If the gain exceeds 23dBi then the output power limit of 1 Watt is reduced by 1dB for every dB the gain exceeds 23dBi.

SPURIOUS EMISSIONS LIMITS - UNII and LELAN DEVICES

The spurious emissions limits for signals below 1GHz are the FCC/RSS-GEN general limits. For emissions above 1GHz, signals in restricted bands are subject to the FCC/RSS GEN general limits. All other signals have a limit of -27dBm/MHz, which is a field strength of 68.3dBuV/m/MHz at a distance of 3m. For devices operating in the 5725-5850Mhz bands under the LELAN/UNII rules, the limit within 10MHz of the allocated band is increased to -17dBm/MHz.

_

² If EIRP exceeds 500mW the device must employ TPC

³ If EIRP exceeds 500mW the device must employ TPC

SAMPLE CALCULATIONS - CONDUCTED EMISSIONS

Receiver readings are compared directly to the conducted emissions specification limit (decibel form) as follows:

$$R_r - S = M$$

where:

 R_r = Receiver Reading in dBuV

S = Specification Limit in dBuV

M = Margin to Specification in +/- dB

SAMPLE CALCULATIONS - RADIATED EMISSIONS

Receiver readings are compared directly to the specification limit (decibel form). The receiver internally corrects for cable loss, preamplifier gain, and antenna factor. The calculations are in the reverse direction of the actual signal flow, thus cable loss is added and the amplifier gain is subtracted. The Antenna Factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

A distance factor, when used for electric field measurements above 30MHz, is calculated by using the following formula:

$$F_d = 20*LOG_{10} (D_m/D_s)$$

where:

 F_d = Distance Factor in dB

 D_{m} = Measurement Distance in meters

 D_S = Specification Distance in meters

For electric field measurements below 30MHz the extrapolation factor is either determined by making measurements at multiple distances or a theoretical value is calculated using the formula:

$$F_d = 40*LOG_{10} (D_m/D_s)$$

Measurement Distance is the distance at which the measurements were taken and Specification Distance is the distance at which the specification limits are based. The antenna factor converts the voltage at the antenna coaxial connector to the field strength at the antenna elements.

The margin of a given emission peak relative to the limit is calculated as follows:

$$R_c = R_r + F_d$$

and

$$M = R_C - L_S$$

where:

 R_r = Receiver Reading in dBuV/m

 F_d = Distance Factor in dB

Report Date: July 27, 2016

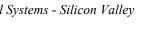
 R_C = Corrected Reading in dBuV/m L_S = Specification Limit in dBuV/m M = Margin in dB Relative to Spec

SAMPLE CALCULATIONS - FIELD STRENGTH TO EIRP CONVERSION

Where the radiated electric field strength is expressed in terms of the equivalent isotropic radiated power (eirp), or where a field strength measurement of output power is made in lieu of a direct measurement, the following formula is used to convert between eirp and field strength at a distance of d (meters) from the equipment under test:

E =
$$\frac{1000000 \sqrt{30 P}}{d}$$
 microvolts per meter
d
where P is the eirp (Watts)

For a measurement at 3m the conversion from a logarithmic value for field strength (dBuV/m) to an eirp power (dBm) is -95.3dB.



Appendix A Test Equipment Calibration Data

Manufacturer Padiatod Emissions	<u>Description</u> , 1000 - 6,000 MHz, 19-Nov-15	<u>Model</u>	Asset #	Calibrated	Cal Due
EMCO Rohde & Schwarz	Antenna, Horn, 1-18GHz EMI Test Receiver, 20 Hz-7 GHz	3115 ESIB7	868 1538	6/26/2014 12/20/2014	6/26/2016 12/20/2015
Radiated Emissions, EMCO Rohde & Schwarz	, 1000 - 6,000 MHz, 23-Nov-15 Antenna, Horn, 1-18GHz EMI Test Receiver, 20 Hz-7 GHz	3115 ESIB7	868 1538	6/26/2014 12/20/2014	6/26/2016 12/20/2015
	Emissions, 1000 - 6,500 MHz, Ba			0/00/0044	0/00/0040
EMCO Rohde & Schwarz	Antenna, Horn, 1-18GHz EMI Test Receiver, 20 Hz-7 GHz	3115 ESIB7	868 1538	6/26/2014 12/20/2014	6/26/2016 12/20/2015
•	, 1000 - 18,000 MHz, 25-Nov-15				
EMCO Hewlett Packard	Antenna, Horn, 1-18GHz High Pass filter, 3.5 GHz	3115 P/N 84300- 80038	868 1157	6/26/2014 7/10/2015	6/26/2016 7/10/2016
Micro-Tronics	Band Reject Filter, 2400-2500 MHz	BRM50702-02	1683	7/13/2015	7/13/2016
Hewlett Packard	Microwave Preamplifier, 1- 26.5GHz	8449B	2199	10/9/2015	10/9/2016
Hewlett Packard	Spectrum Analyzer (SA40) Purple 9 kHz - 40 GHz,	8564E (84125C)	2415	3/7/2015	3/7/2016
Radio Antenna Port Agilent Technologies	(Power and Spurious Emission PSA, Spectrum Analyzer, (installed options, 111, 115, 123, 1DS, B7J, HYX,	n s), 30-Nov-15 E4446A	2139	6/22/2015	6/22/2016
Radio Antenna Port Agilent Technologies	(Power and Spurious Emission PSA, Spectrum Analyzer, (installed options, 111, 115, 123, 1DS, B7J, HYX,	n s), 01-Dec-15 E4446A	2139	6/22/2015	6/22/2016
Radiated Emissions, Hewlett Packard	, 1000 - 25,000 MHz, 03-Dec-15 Microwave Preamplifier, 1- 26.5GHz	8449B	870	2/20/2015	2/20/2016
Hewlett Packard Hewlett Packard	SA40 Head (Red) Spectrum Analyzer (SA40)	Miteq 8564E (84125C)	1145 1148	7/17/2015 10/17/2015	7/17/2016 10/17/2016
EMCO Micro-Tronics	Red 30 Hz -40 GHz Antenna, Horn, 1-18 GHz Band Reject Filter, 5150-5350 MHz	3115 BRC50703-02	1561 1729	6/27/2014 7/8/2015	6/27/2016 7/8/2016
A. H. Systems	Purple System Horn, 18- 40GHz	SAS-574, p/n: 2581	2160	8/28/2014	8/28/2017
Radiated Emissions, Hewlett Packard	, 1000 - 12,000 MHz, 04-Dec-15 Microwave Preamplifier, 1- 26.5GHz	8449B	870	2/20/2015	2/20/2016
Hewlett Packard	Spectrum Analyzer (SA40) Red 30 Hz -40 GHz	8564E (84125C)	1148	10/17/2015	10/17/2016
EMCO	Antenna, Horn, 1-18 GHz	3115	1561	6/27/2014	6/27/2016
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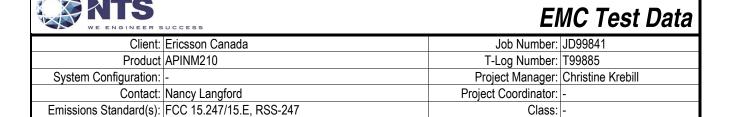
National Technical L	systems - Silicon Valley Rej	oort Date: July 27, 20	016 Reis	Project numbe sue Date: Augus	
Manufacturer Micro-Tronics	Description Band Reject Filter, 5725-5875 MHz	Model BRC50705-02	Asset # 1682	Calibrated 7/8/2015	Cal Due 7/8/2016
Micro-Tronics	Band Reject Filter, 5150-5350 MHz	BRC50703-02	1729	7/8/2015	7/8/2016
Micro-Tronics	Band Reject Filter, 5470-5725 MHz	BRC50704-02	1730	7/10/2015	7/10/2016
Radiated Emissions	, 1,000 - 12,000 MHz, 07-Dec-15 Antenna, Horn, 1-18GHz	3115	868	6/26/2014	6/26/2016
Micro-Tronics	Band Reject Filter, 5725-5875 MHz	BRC50705-02	1682	7/8/2015	7/8/2016
Hewlett Packard	Microwave Preamplifier, 1- 26.5GHz	8449B	2199	10/9/2015	10/9/2016
Radiated Emissions, Rohde & Schwarz	, 30 - 1,000 MHz, 08-Dec-15 EMI Test Receiver, 20 Hz-7 GHz	ESIB7	1630	7/6/2015	7/6/2016
Sunol Sciences Com-Power	Biconilog, 30-3000 MHz Preamplifier, 1-1000 MHz	JB3 PAM-103	2237 2885	8/29/2014 10/13/2015	8/29/2016 10/13/2016
Radiated Emissions, Hewlett Packard	, 1000 - 40,000 MHz, 08-Dec-15 Microwave Preamplifier, 1-	8449B	870	2/20/2015	2/20/2016
Hewlett Packard	26.5GHz Spectrum Analyzer (SA40)	8564E (84125C)	1148	10/17/2015	10/17/2016
EMCO Micro-Tronics	Red 30 Hz -40 GHz Antenna, Horn, 1-18 GHz Band Reject Filter, 5150-5350 MHz	3115 BRC50703-02	1561 2239	6/27/2014 9/16/2015	6/27/2016 9/16/2016
Hewlett Packard A. H. Systems	SA40 Head (Red) Purple System Horn, 18- 40GHz	Miteq SAS-574, p/n: 2581	1145 2160	7/17/2015 8/28/2014	7/17/2016 8/28/2017
	ns - AC Power Ports, 9-Dec-15	E0110 70	4.404	5/4 A/0045	5/4.4/004.0
Rohde & Schwarz Rohde & Schwarz	Pulse Limiter EMI Test Receiver, 20 Hz-40	ESH3 Z2 ESIB40	1401 2493	5/14/2015 1/23/2015	5/14/2016 1/23/2016
Com-Power	GHz 9KHz-30MHz, 50uH, 15Aac, 10Adc, max	(1088.7490.40) LI-215A	2672	6/26/2015	6/26/2016
Radiated Emissions, Hewlett Packard	, 1000 - 40,000 MHz, 14-Dec-15 Microwave Preamplifier, 1-	8449B	870	2/20/2015	2/20/2016
Hewlett Packard Hewlett Packard	26.5GHz SA40 Head (Red) Spectrum Analyzer (SA40)	Miteq 8564E (84125C)	1145 1148	7/17/2015 10/17/2015	7/17/2016 10/17/2016
Hewlett Packard	Red 30 Hz -40 GHz High Pass filter, 8.2 GHz	P/N 84300-	1152	7/10/2015	7/10/2016
EMCO Micro-Tronics	Antenna, Horn, 1-18 GHz Band Reject Filter, 5150-5350	80039 3115 BRC50703-02	1561 1729	6/27/2014 7/8/2015	6/27/2016 7/8/2016
A. H. Systems	MHz Purple System Horn, 18-	SAS-574, p/n:	2160	8/28/2014	8/28/2017
Micro-Tronics	40GHz Band Reject Filter, 2400-2500 MHz	2581 BRM50702-02	2238	9/16/2015	9/16/2016

Project number JD99841 Report Date: July 27, 2016 Reissue Date: August 31, 2016

	Кер	pori Daie. July 27, 20	710 Keis.	sue Duie. Augus	131, 2010
Manufacturer Antenna port measu	Description	<u>Model</u>	Asset #	Calibrated	Cal Due
Agilent Technologies	PSA, Spectrum Analyzer, (installed options, 111, 115, 123, 1DS, B7J, HYX,	E4446A	2139	6/22/2015	6/22/2016
Frequency Stability ((U-NII), 18-Dec-15				
Fluke	Fluke Mulitmeter, True RMS	175	1447	7/23/2015	7/23/2016
Watlow	Temp Chamber (w/ F4 watlow Controller)	96A0	2171	7/14/2015	7/14/2016
Agilent	3Hz -44GHz PSA Spectrum	E4446A	2796	3/31/2015	3/31/2016
Technologies	Analyzer				
	, 1,000 - 40,000 MHz, 23-Dec-15		.=.	0/00/00/	0/00/00/10
Hewlett Packard	Microwave Preamplifier, 1-26.5GHz	8449B	870	2/20/2015	2/20/2016
HP / Miteq	SA40 Head (Red)	TTA1840-45-5P- HG-S	1145	7/17/2015	7/17/2016
Hewlett Packard	Spectrum Analyzer (SA40) Red 30 Hz -40 GHz	8564E (84125C)	1148	10/17/2015	10/17/2016
EMCO	Antenna, Horn, 1-18 GHz	3115	1561	6/27/2014	6/27/2016
Micro-Tronics	Band Reject Filter, 5470-5725 MHz	BRC50704-02	1730	7/10/2015	7/10/2016
Hewlett Packard	High Pass filter, 8.2 GHz (Purple System)	P/N 84300- 80039	1767	11/3/2015	11/3/2016
Com-Power	Comb Generator, 1-10 GHz, 100 MHz Step	CGO-5100	2096	5/22/2015	5/22/2016
A. H. Systems	Purple System Horn, 18- 40GHz	SAS-574, p/n: 2581	2160	8/28/2014	8/28/2017
Micro-Tronics	Band Reject Filter, 2400-2500 MHz	BRM50702-02	2249	9/16/2015	9/16/2016
Micro-Tronics	Band Reject Filter, 5150-5350 MHz	BRC50703-02	2251	9/16/2015	9/16/2016

Appendix B Test Data

T99885 Pages 28 - 130



Environment:

Immunity Standard(s): -

EMC Test Data

For The

Ericsson Canada

Product

APINM210

Date of Last Test: 6/28/2016



	L LNOTHLER SOCIES		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADIMM210	T-Log Number:	T99885
	APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Power vs. Data Rate

In normal operating modes the card uses power settings stored on EEPROM to set the output power. For a given nominal output power the actual transmit power normally is reduced as the data rate increases, therefore testing was performed at the data rate in the mode with highest power to determine compliance with the requirements.

The following power measurements were made using a **GATED** average power meter and with the device configured in a continuous transmit mode on Chain 1 at the various data rates in each mode to verify the highest power mode:

Sample Notes

Sample S/N: -Driver: -

> Date of Test: 11/5/2012 Test Engineer: Mark Hill Test Location: Lab #4

Mode	Data Rate Power (dBm)		Power setting	
	1	16.0		
802.11b	2	16.5	q66	
002.110	5.5	16.7	qoo	
	11	16.6		
	6	16.6		
	9	16.4		
	12	16.5		
902 11a	18	16.5	a60	
802.11g	24	16.3	q69	
	36	16.4		
	48	16.2		
	54	16.4		



Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
lviodei:	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Mode	Data Rate	Power (dBm)	Power setting	
	6.5	16.6		
	13	16.6		
	19.5	16.5		
802.11n	26	16.5		
20MHz	39	16.5	q69	
ZUIVII IZ	52	16.5		
	58.5	16.5		
	65	16.5		
	78	16.5		<<-11ac mode only
	13.5	16.9		
	27	16.8		
	40.5	16.8		
	54	16.8		
802.11n/ac	81	16.8	q70	
40MHz	108	16.9	470	
	121.5	16.9		
	135	16.8		
	162	16.6		<<-11ac mode only
	180	16.7		<<-11ac mode only
	29.3	17.7		
	58.5	17.7		
	87.8	17.7		
	117	17.6		
802.11ac 80MHz	175.5	17.7	q74	
ou∠. I Tac buiviHZ	234	17.1] q/ -4	
	266.3	16.7		
	292.5	16.8		
	351	16.3		
	390	15.8		

Note: Power setting - the software power setting used during testing, included for reference only.



72 1	E ENGINEER SUCCESS		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADIMM210	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Duty Cycle

Date of Test: 11/5/2012 Test Engineer: Mark Hill Test Location: Lab #4

Duty cycle measurements performed on the worse case data rate for power.

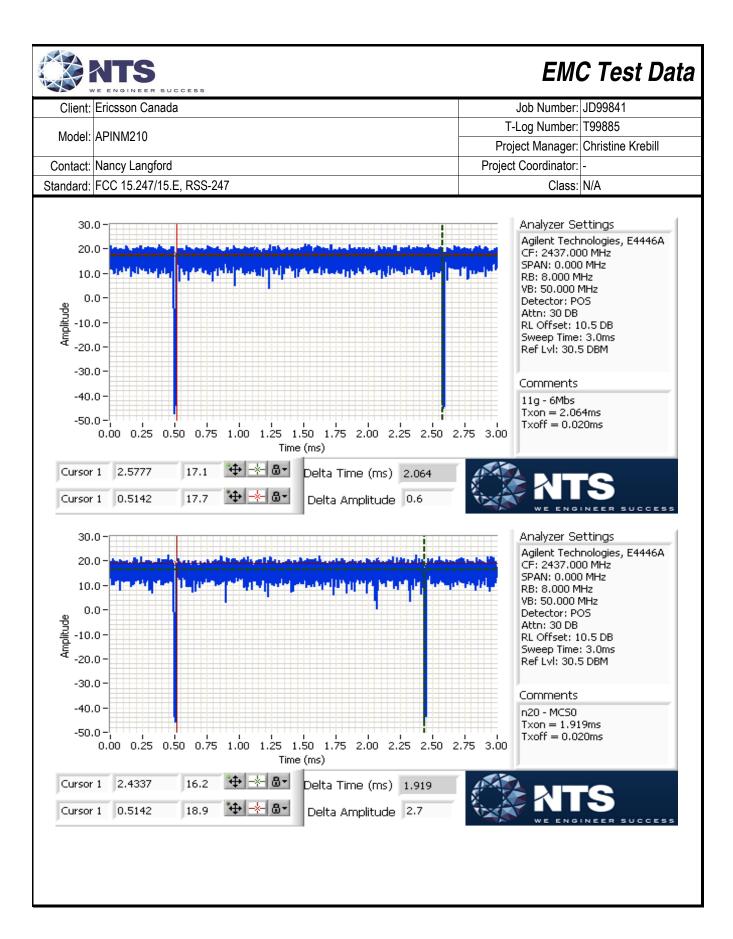
Notes: Measurements taken with maximum RBW/VBW settings allowed.

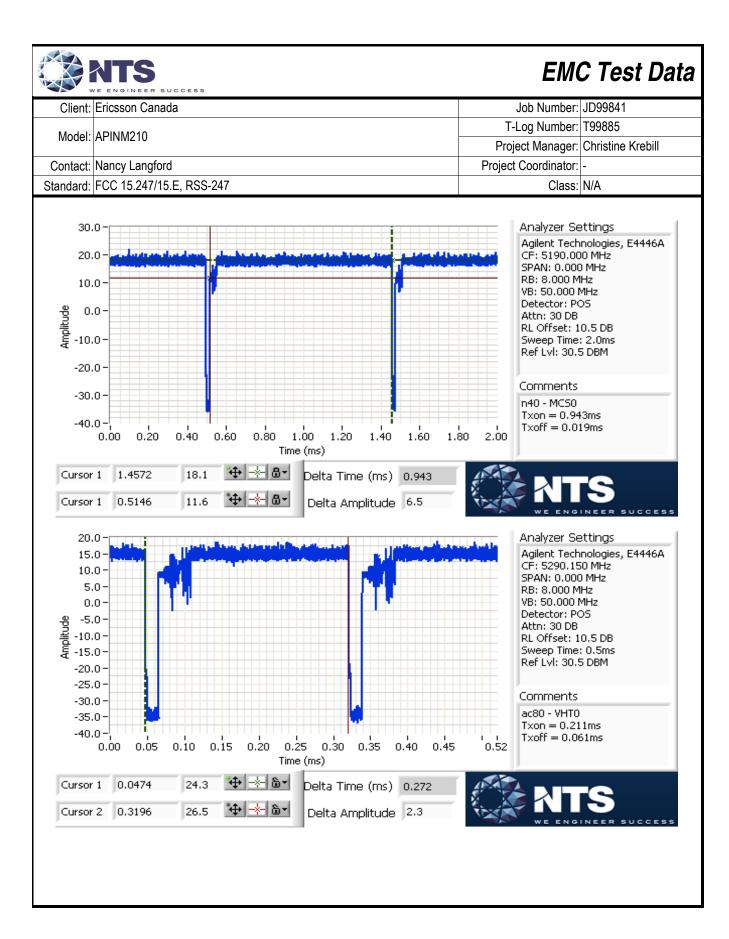
Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
11b	5.5	99.4%	Yes	2.32	0	0	10
11g	6	99.0%	Yes	2.06	0	0	10
n20	MCS0	99.0%	Yes	1.92	0	0	10
n40	MCS0	98.0%	Yes	0.94	0	0	10
ac80	VHT0	77.6%	Yes	0.21	1.1	2.2	4739

^{*} Correction factor when using RMS/Power averaging - 10*log(1/x)

^{**} Correction factor when using linear voltage average - 20*log(1/x)

T = Minimum transmission duration







Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADMM640	T-Log Number:	T99885
	APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

RSS-247 (LELAN) and FCC 15.407(UNII) **Antenna Port Measurements** Power, PSD, Bandwidth and Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5250 - 5350MHz	15.407(a) (1), (2), (3) RSS-247 6.2	Pass	a: 23.0dBm (198mW) n20: 23.3dBm (213mW) n40: 23.7dBm (237mW) ac80: 19.5dBm (90mW)
1	PSD, 5250 - 5350MHz	15.407(a) (1), (2), (3) RSS-247 6.2	Pass	a: 10.9 mW/MHz n20: 10.8dBm/MHz n40: 8.3dBm/MHz ac80: 2.6dBm/MHz
1	Max EIRP 5250 - 5350MHz	TPC required if EIRP≥ 500mW (27dBm). EIRP ≥ 200mW (23dBm) DFS threshold = -64dBm.	Pass	EIRP = 29.7 dBm (942 mW)
1	26dB Bandwidth	15.407 (Information only)	-	> 20MHz for all modes
1	99% Bandwidth	RSS-247 (Information only)	N/A	a: 17.2 MHz n20: 18.4 MHz n40: 37.2 MHz ac80: 75.7 MHz



WE ENGINEER SOCCESS						
Client:	Ericsson Canada	Job Number:	JD99841			
Model:	ADINIM240	T-Log Number:	T99885			
	AFINIVIZ 10	Project Manager:	Christine Krebill			
Contact:	Nancy Langford	Project Coordinator:	-			
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A			

General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions:

Temperature: 22.4 °C Rel. Humidity: 36 %

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Procedure Comments:

Measurements performed in accordance with FCC KDB 789033 D01

Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
11a	6	99.0%	Yes	2.06	0	0	10
n20	MCS0	99.0%	Yes	1.92	0	0	10
n40	MCS0	98.0%	Yes	0.94	0	0	10
ac80	VHT0	77.6%	Yes	0.21	1.1	2.2	4739

Sample Notes

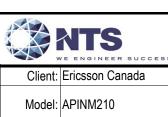
Sample S/N: Prototype

Driver:

Notes

Beamforming is supported for n20/n40/ac80. For FCC/IC, the conducted power remains the same for both non-beamforming and beamforming modes.

	WE ENGINEER SUCCESS	EM	C Test Data		
Client:	Ericsson Canada	Job Number:	JD99841		
Madal	ADINIMO40	T-Log Number:	T99885		
Model:	APINM210	Project Manager:	Christine Krebill		
Contact:	Nancy Langford	Project Coordinator:	-		
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A		
Te	est Engineer: R. Varelas / M. Birgani Config Chan est Location: FT Lab #4A EUT Volta Duty Cycle ≥ 98%. Output power measured using a spectrum analyzer OBW, # of points in sweep ≥ 2*span/RBW, auto sweep, RMS sample of	ge: 120V/60Hz (see plots below). RBW=1M	•		
	continuous, duty cycle ≥ 98%) and power integration over the OBW (me Measured using the same analyzer settings used for output power. 99% Bandwidth measured in accordance with C63.10 - RB between 1-5 times OBW.	ethod SA-1 of ANSI C63.10).			
For MIMO systems the total output power and total PSD are calculated from the sum of the powers of the individual chains (in linear terms). The antenna gain used to determine the EIRP and limits for PSD/Output power depends on the operating mode of the MIMO device. If the signals on the non-coherent between the transmit chains then the gain used to determine the limits is the highest gain of the individual chains and the EIRP is the sum of the products of gain and power on each chain. If the signals are coherent then the effective antenna gain is the sum (in linear terms) of the gains for each chain and the EIRP is the product of the effective gain and total power.					
Note 5:	Constant Duty Cycle < 98%. Output power measured using a spectrum Span > OBW, # of points in sweep ≥ 2*span/RBW, RMS detector, trace integration over the OBW. The measurements were corrected for duty duty cycle. (method SA-2 of ANSI C63.10)	average 100 traces, power a	averaging on and power		



Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM210	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Antenna Gain Information

, tilledillia Gic	anoma dan momadon												
Freq	A	Antenna Gain (dBi) / Chain				MultiChain	CDD	Sectorized Dir G	Dir G				
	1	2	3	4	BF	Legacy		/ Xpol	(PWR)	(PSD)			
5150-5250	5.5	4.79	4.17		No	Yes	Yes	No	1.50	6.00			
5250-5350	5.5	4.79	4.17		No	Yes	Yes	No	1.50	6.00			
5470-5725	5.23	5.15	5.16		No	Yes	Yes	No	1.10	5.80			
5725-5825	5.79	3.92	5.1		No	Yes	Yes	No	0.60	5.20			

For devices that support CDD modes

Min # of spatial streams: 1
Max # of spatial streams: 3

Notes:	BF = beamforming mode supported, Multichain Legacy = 802.11 legacy data rates supported for multichain transmissions, CDD = Cyclic Delay Diversity (or Cyclic Shift Diversity) modes supported, Sectorized / Xpol = antennas are sectorized or cross polarized.
	Dir G (PWR) = total gain (Gant + Array Gain) for power calculations; GA (PSD) = total gain for PSD calculations based on
Notes:	FCC KDB 662911. Depending on the modes supported, the Array Gain value for power could be different from the PSD
	value.
Notes:	Array gain for power/psd calculated per KDB 662911 D01.
	For systems with Beamforming and CDD, choose one the following options:
	Option 1: Delays are optimized for beamforming, rather than being selected from cyclic delay table of 802.11; Array gains
Neter	calculated based on beamforming criteria.
Notes:	Option 2: Antennas are paired for beamforming, and the pairs are configured to use the cyclic delay diversity of 802.11; the
	array gain associated with beamforming with 2 antennas (3dB), and the array gain associated with CDD with two antennas
	(3dB for PSD and 0 dB for power)



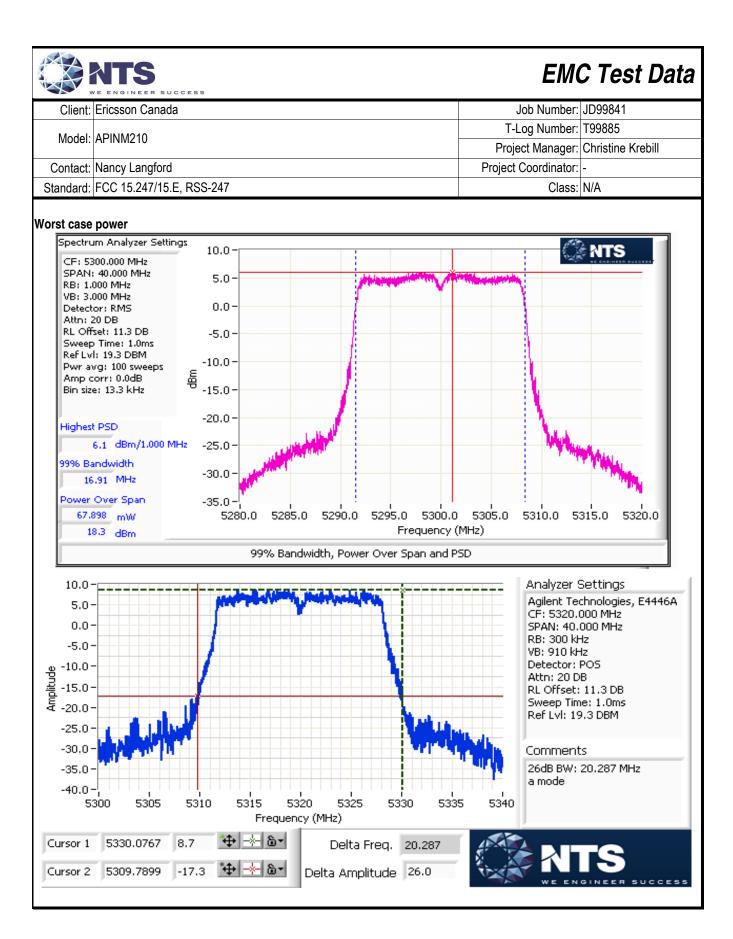
	774 30-980 HHD 3774 RES 3774 RES 3775 R		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
woder:	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

MIMO Device - 5250-5350 MHz Band - FCC

Mode:	11a						Max	EIRP (mW):	280	
Frequency	Chain	Software	26dB BW	Duty Cycle	Power	Total F	Power ¹	FCC Limit	Max Power	Result
(MHz)	Chain	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit
	1				18.2					
5260	3	q76	21.6	99	18.1	195.2	22.9	24.0		Pass
	4	470	21.0	33		155.2	22.5	24.0		1 433
	2				18.1					
	1				18.3					
5300	3	q75	20.8	99	18.2	198.2	23.0	24.0	0.198	Pass
0000	4	970	20.0	33		100.2	20.0	24.0	0.100	1 455
	2				18.1					
	1				15.1					
5320	3	q60	20.3	99	15.0	95.6	19.8	24.0		Pass
5320	4	450				55.0	.5.0			. 400
	2				15.0					

MIMO Device - 5250-5350 MHz Band - Industry Canada Mode: 11a

Mode:	11a		Max EIRP (mW): 280							
Frequency	Chain	Software	99% BW	Duty Cycle	Power ¹	Total I	Power	IC limit	Max Power	Result
(MHz)	Onam	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesult
	1				18.2					
5260	3	q76	17.2	99	18.1	195.2	22.9	23.4		Pass
	4		17.2	33		190.2	22.3	25.4		F a 5 5
	2				18.1					
	1				18.3					
5300	3	q75	17.2	99	18.2	198.2	23.0	23.4	0.198	Pass
3300	4	4/5	17.2			130.2	20.0	20.4	0.190	F 033
	2				18.1					
	1				15.1					
5320	3	q60	16.8	99	15.0	95.6	19.8	23.3		Pass
5320	4	400	10.0	33		33.0	15.0	20.0		1 433
	2				15.0					





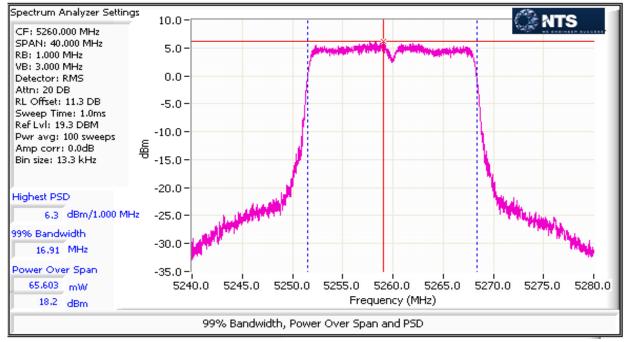
	1		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

5250-5350 PSD - FCC/IC

Mode:	11a

wode:	IIa									
Frequency	Chain	Software	99% BW	Duty Cycle	PSD	Total	PSD ¹	FCC Limit	IC Limit	Result
(MHz)	Onam	Setting	(MHz)	%	dBm/MHz	mW/MHz	dBm/MHz	dBm/MHz		rtoodit
	1			99	6.3					
5260	3	q76			6.0	12.3	10.9	11.0	11.0	Pass
3200	4					12.5		11.0	11.0	F 055
	2				6.1					
	1				6.1					
5300	3	q75		99	6.0	11.9	10.8	11.0	11.0	Pass
5500	4									F 055
	2				5.8					
	1				2.8					
5320	3	q60		99	3.1	5.9	7.7	11.0	11.0	Pass
5320	4	400		33		5.9	1.1	11.0	11.0	F d 5 5
	2				2.8					

Worst case PSD





Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

MIMO Device - 5250-5350 MHz Band - FCC

Max EIRP (mW) Beamforming: 846.4
Max EIRP (mW): 300.3

Mode:	n20		Max EIRP (mW): 300.3								
Frequency	Chain	Software	26dB BW	Duty Cycle	Power	Total Power ¹		FCC Limit	Max Power	Result	
(MHz)	Onam	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit	
	1				17.1						
5260	3	q76	26	99.0	18.4	189.7	22.8	24.0		Pass	
0200	4	470	20	99.0		103.7		24.0		F a 5 5	
	2				18.4						
	1				18.2						
5300	3	q76	26	99.0	18.7	212.6	23.3	24.0	0.213	Pass	
0000	4	970	20	33.0		212.0	20.0	24.0	0.210	1 400	
	2				18.6						
	1				16.0						
5320	3	q65	26	99.0	15.9	117.6	20.7	24.0		Pass	
5320	4	400	0	55.0		117.0	20.1	21.0		1 400	
	2				15.9						

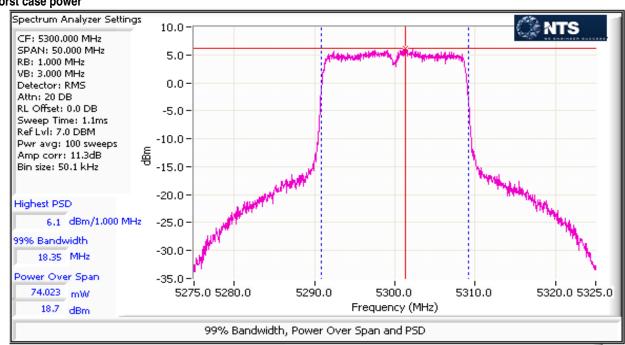
MIMO Device - 5250-5350 MHz Band - Industry Canada Mode: n20

Mode:	n20		Max EIRP (mW): 300.3								
Frequency	Chain	Software	99% BW	Duty Cycle	Power ¹	Total Power		IC limit	Max Power	Result	
(MHz)	Cilaiii	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit	
	1				17.1						
5260	3	q76	18.2	99.0	18.4	189.7	22.8	23.6		Pass	
	4		10.2	33.0		103.7	22.0	25.0		1 055	
	2				18.4						
	1				18.2						
5300	3	q76	18.4	99.0	18.7	212.6	23.3	23.6	0.213	Pass	
0000	4	970	10.4	33.0		212.0	20.0	20.0	0.210	1 433	
	2				18.6						
	1				16.0						
5320	3	q65	18.0	99.0	15.9	117.6	20.7	23.6		Pass	
3320	4	400	10.0	00.0		117.0	20.1	25.0		1 400	
	2				15.9						



	1		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Worst case power





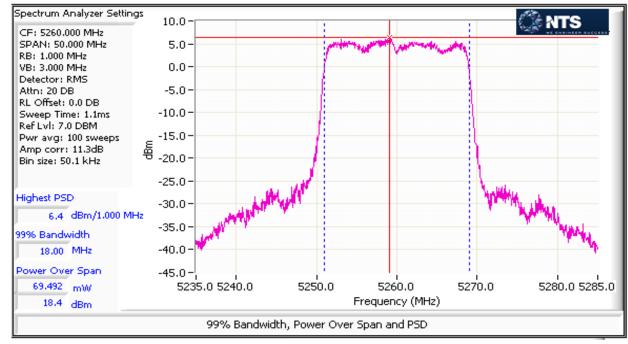
	774 30-980 HHD 3774 RES 3774 RES 3775 R		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
woder:	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

5250-5350 PSD - FCC/IC

Mode:	n20
-------	-----

Mode.	1120									
Frequency	Chain	Software	99% BW	Duty Cycle	PSD	Total	PSD ¹	FCC Limit	IC Limit	Result
(MHz)	Onam	Setting	(MHz)	%	dBm/MHz	mW/MHz	dBm/MHz	dBm	/MHz	result
	1				4.5					
5260	3	q76		99.0	5.7	10.9	10.4	11.0	11.0	Pass
3200	4	470		99.0		10.9	10.4	11.0	11.0	F 455
	2				6.4					
	1				5.7					
5300	3	q76		99.0	6.1	12.1	10.8	11.0	11.0	Pass
5500	4	470		99.0		12.1	10.0	11.0	11.0	F 455
	2				6.3					
	1				3.5					
5320	3	q65		99.0	3.4	6.7	8.3	11.0	11.0	Pass
3320	4	quo		33.0		0.7	0.5	11.0	11.0	F d55
	2				3.5					

Worst case PSD





	L LNOTHELK SOCIES		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
Model:	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

MIMO Device - 5250-5350 MHz Band - FCC

Max EIRP (mW) Bearmforming: 941.5
Max EIRP (mW): 334.1

Mode:	n40						Max	EIRP (mW):	334.1	
Frequency	Chain	Software	26dB BW Duty Cycle		Power	Total F	Total Power ¹		Max Power	Result
(MHz)	Onam	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit
	1				18.9					
5270	3	q78	39.2	98	19.0	236.5	23.7	24.0		Pass
	4	Ч	q70 39.2	30		200.0	20.1	24.0	0.237	1 055
	2				19.0					
	1				15.4				0.231	
5310	3	q62	39.4	98	15.0	97.2	2 19.9 24.0		Pass	
5510	4		33.4	30				24.0		1 033
	2				14.9					

MIMO Device - 5250-5350 MHz Band - Industry Canada Mode: n40

Mode:	n40			Max EIRP (mW): 334.1							
Frequency	Chain	Software	99% BW	Duty Cycle	Power ¹	Total Power		IC limit	Max Power	Result	
(MHz)	Onam	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit	
	1				18.9						
5270	3	q78	37.2	98	19.0	236.5	23.7	24.0		Pass	
3210	4	470	01.2			200.0	20.1	24.0		1 433	
	2				19.0				0.237		
	1				15.4				0.201		
5310	3	q62	36.5	98	15.0	97.2	19.9	24.0		Pass	
	4	75-	23.0			J <u>-</u>	. 5.0			. 300	
	2				14.9						

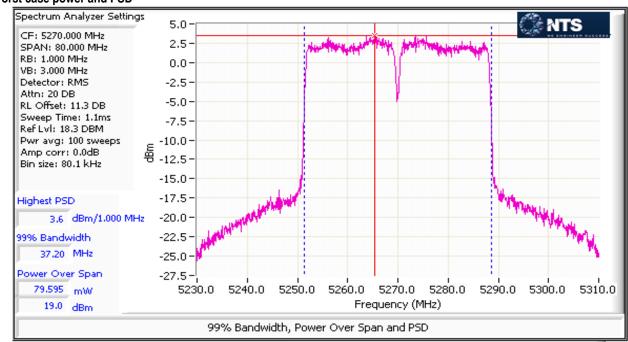


	774 30-980 HHD 3774 RES 3774 RES 3775 R		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
woder:	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

MIMO Device 5250-5350 PSD - FCC/IC

Mode:	n40									
Frequency	Chain	Software	99% BW	Duty Cycle	PSD	Total PSD ¹		FCC Limit	IC Limit	Result
(MHz)	Gilaili	Setting	(MHz)	%	dBm/MHz	mW/MHz	dBm/MHz	dBm	/MHz	Nesuit
	1			3.4	_					
5270	3	q78		98	3.6	6.8	8.3	11.0	11.0	Pass
3210	4	410		30		0.0	0.0	11.0	11.0	1 033
	2				3.6					
	1				0.0					
5310	3	q62		98	-0.4	2.8	4.5	11.0	11.0	Pass
3310	4	402		"		2.0	٦.٥	11.0	11.0	1 033
	2				-0.3					

Worst case power and PSD





Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

MIMO Device - 5250-5350 MHz Band - FCC

Max EIRP (mW) Beamforming: 77.6 Max EIRP (mW): 27.5

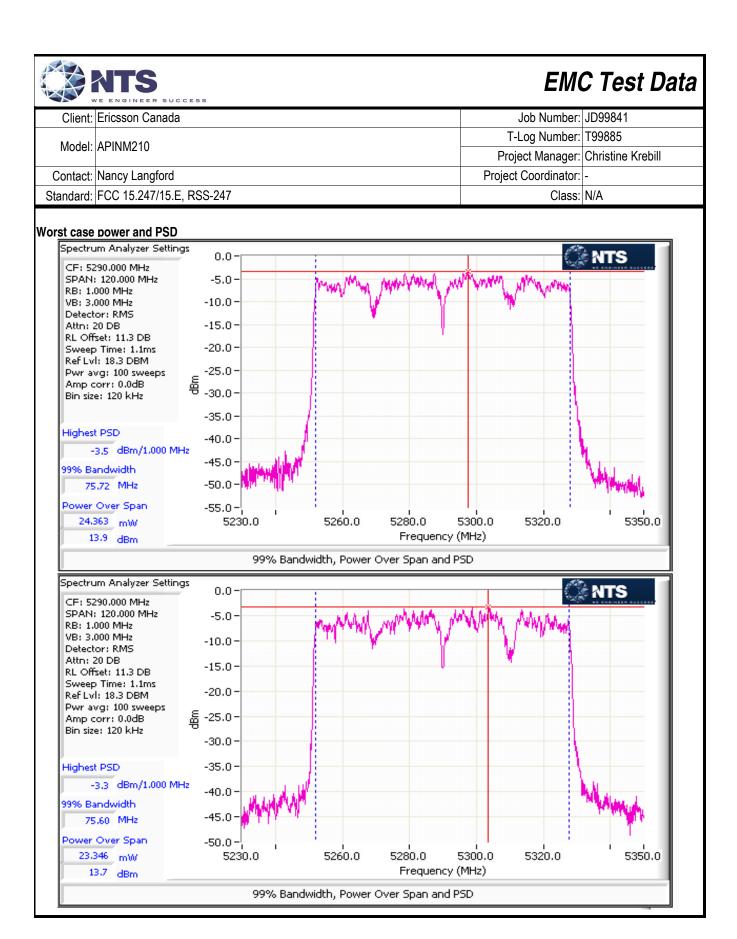
Mode:	ac80						Max	EIRP (mW):	27.5	
Frequency	Chain	Software	26dB BW	Duty Cycle	Power	Total F	Power ⁵	FCC Limit	Max Power	Result
(MHz)	Challi	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	1/69all
	1	q61		77.6	13.4	90.0	19.5	24.0	0.020	Pass
5290	3		82.5		13.7					
5290	4									
	2				13.9					

MIMO Device - 5250-5350 MHz Band - Industry Canada

Inning Bear	0200 00	oo wii iz baii	a maasay	Ouridada						
Mode:	ac80						Max	EIRP (mW):	127.1	
Frequency	Chain	Software	99% BW	Duty Cycle	Power	Total F	Power ⁵	IC limit	Max Power	Result
(MHz)	Glialli	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit
	1				13.4					
5290	3	q61	75.7	75.7 77.6	13.7	90.0	19.5	24.0	0.090	Pass
	4		13.1	11.0						
	2				13.9	1				

MIMO Device 5250-5350 PSD - FCC/IC

Mode:	aceu									
Frequency	Chain	Software	99% BW	Duty Cycle	PSD	Total	PSD⁵	FCC Limit	IC Limit	Result
(MHz)	Onam	Setting	(MHz)	%	dBm/MHz	mW/MHz	dBm/MHz	dBm	/MHz	Nesuit
	1				-3.4					
5290	3	q61		77.6	-3.3	1.8	2.6	11.0	11.0	Pass
3230	4	qui		11.0		1.0	2.0	11.0	11.0	1 055
	2				-3.5					





	The state of the s		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
iviouei.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

RSS-247 (LELAN) and FCC 15.407(UNII) Antenna Port Measurements Power, PSD, Bandwidth and Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

Summary of Results

Run #	Test Performed	Limit	Pass / Fail	Result / Margin
1	Power, 5470 - 5725MHz	15.407(a) (1), (2), (3) RSS-247 6.2	Pass	a: 23.1dBm (204mW) n20: 23.1dBm (203mW) n40: 23.5dBm (224mW) ac80: 23.7dBm (235mW)
1	PSD, 5470 - 5725MHz	15.407(a) (1), (2), (3) RSS-247 6.2	Pass	a: 10.9dBm/MHz n20: 11.0dBm/MHz n40: 8.7dBm/MHz ac80: 5.4dBm/MHz
1	Max EIRP 5470 - 5725MHz	TPC required if EIRP≥ 500mW (27dBm). EIRP ≥ 200mW (23dBm) DFS threshold		EIRP = 29.5dBm (894mW)
1	26dB Bandwidth	15.407 (Information only)	-	> 20MHz for all modes
1	99% Bandwidth	RSS-247 (Information only)	N/A	a: 16.9 MHz n20: 18.1 MHz n40: 36.5 MHz ac80: 75.7 MHz

General Test Configuration

When measuring the conducted emissions from the EUT's antenna port, the antenna port of the EUT was connected to the spectrum analyzer or power meter via a suitable attenuator to prevent overloading the measurement system. All measurements are corrected to allow for the external attenuators and cables used.

Ambient Conditions:

Temperature: 20-22 $^{\circ}$ C Rel. Humidity: 30 - 35 $^{\circ}$



	TENGINEER SOCCESS		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
iviodei.	APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Procedure Comments:

Measurements performed in accordance with FCC KDB 789033 D01

Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
11a	6	99.0%	Yes	2.06	0	0	10
n20	MCS0	99.0%	Yes	1.92	0	0	10
n40	MCS0	98.0%	Yes	0.94	0	0	10
ac80	VHT0	77.6%	Yes	0.21	1.1	2.2	4739

Sample Notes

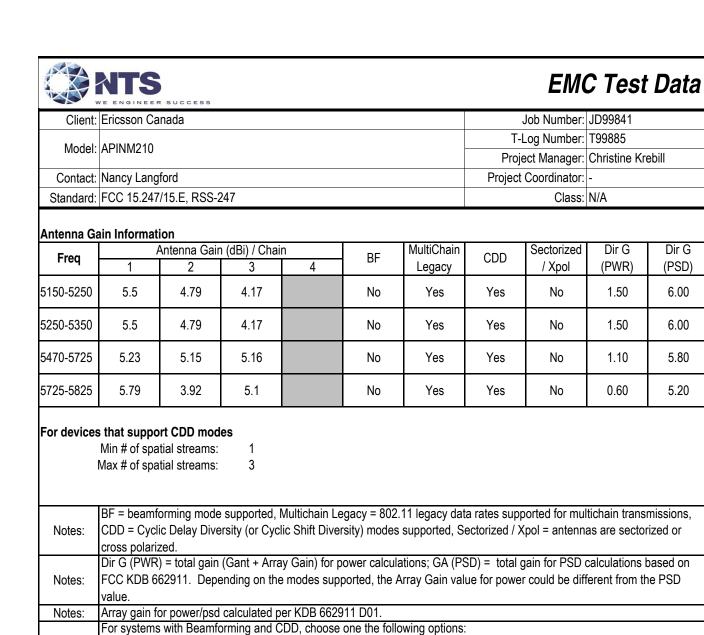
Sample S/N: Prototype

Driver:

Notes

Beamforming is supported for n20/n40/ac80. For FCC/IC, the conducted power remains the same for both non-beamforming and beamforming modes.

	WE ENGINEER SUCCESS	EMC Test Data
Client:	Ericsson Canada	Job Number: JD99841
Madali	ADIMMO10	T-Log Number: T99885
wodei.	APINM210	Project Manager: Christine Krebill
Contact:	Nancy Langford	Project Coordinator: -
Standard:	FCC 15.247/15.E, RSS-247	Class: N/A
Te	Date of Test: 12/17/2015 0:00 est Engineer: Deniz Demirci / R. Varelas est Location: FT Lab #4a	Config. Used: 1 Config Change: None EUT Voltage: 120V/60Hz
	OBW, # of points in sweep ≥ 2*span/RBW, auto so continuous, duty cycle ≥ 98%) and power integration	
Note 2:	Measured using the same analyzer settings used f	
Note 3:	times OBW.	.10 - RB between 1-5 % of OBW and VB ≥ 3*RB, Span between 1.5 and 5
	(in linear terms). The antenna gain used to determ mode of the MIMO device. If the signals on the no the limits is the highest gain of the individual chains	PSD are calculated from the sum of the powers of the individual chains line the EIRP and limits for PSD/Output power depends on the operating n-coherent between the transmit chains then the gain used to determine and the EIRP is the sum of the products of gain and power on each antenna gain is the sum (in linear terms) of the gains for each chain and tal power.
Note 5:	Span > OBW, # of points in sweep ≥ 2*span/RBW,	red using a spectrum analyzer (see plots below). RBW=1MHz, VB=3 MHz RMS detector, trace average 100 traces, power averaging on and power recorrected for duty cycle. This is based on 10log(1/x), where x is the



Option 1: Delays are optimized for beamforming, rather than being selected from cyclic delay table of 802.11; Array gains

Option 2: Antennas are paired for beamforming, and the pairs are configured to use the cyclic delay diversity of 802.11; the array gain associated with beamforming with 2 antennas (3dB), and the array gain associated with CDD with two antennas

calculated based on beamforming criteria.

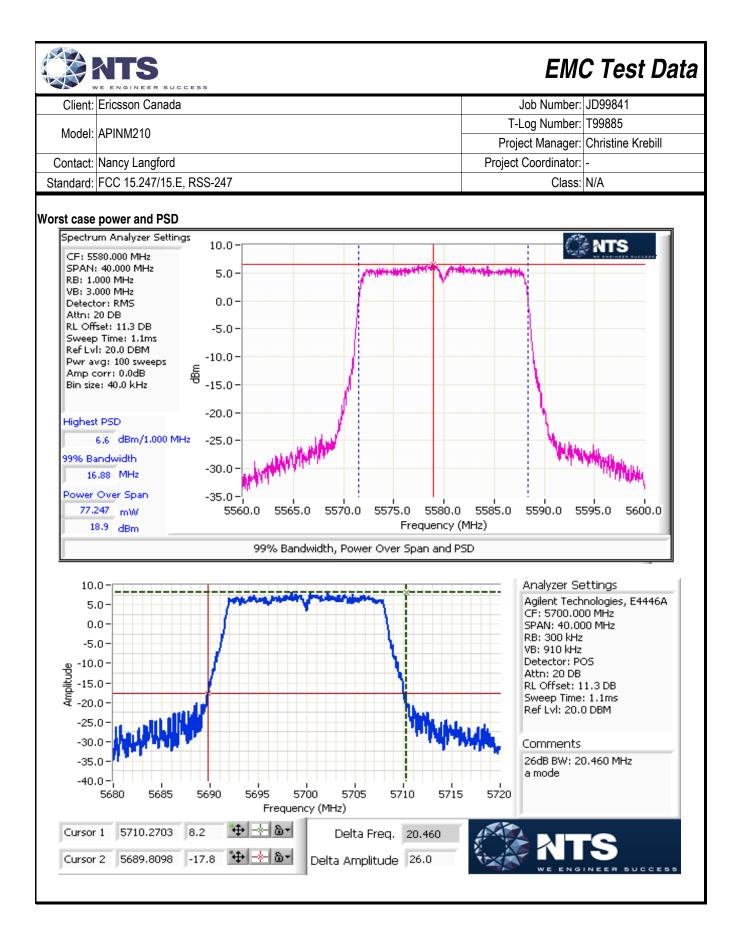
(3dB for PSD and 0 dB for power)

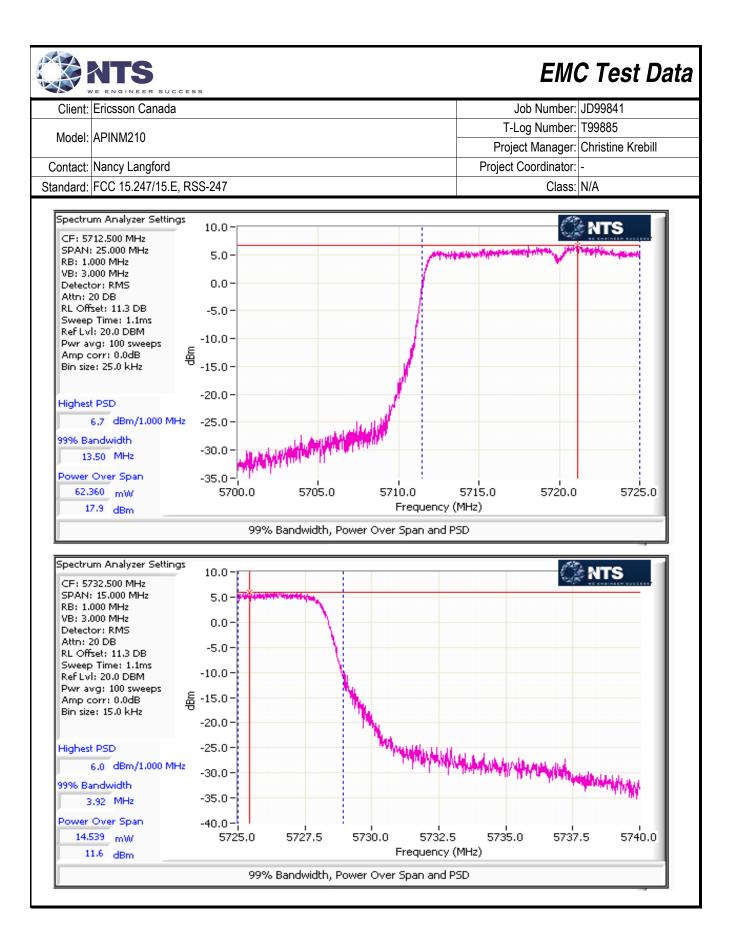
Notes:

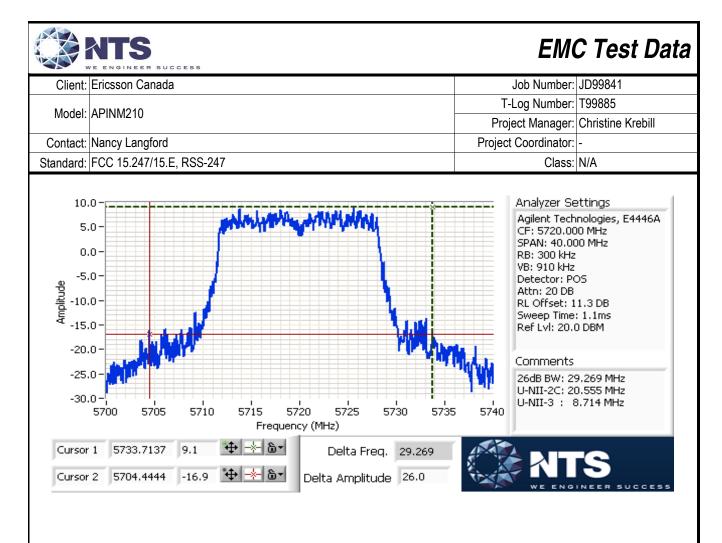
Client:	Ericsson Ca	nada					_	Job Number:			
Model:	APINM210							Log Number:		1.90	
044	Nanavlana	fad					Project Manager: Christine Krebill Project Coordinator: -				
	Nancy Lang		047				Project				
Standard:	FCC 15.247	/15.E, RSS-2	247					Class:	N/A		
IIMO Devi	ce - 5470-57	25 MHz Ban	d - FCC								
Mode:	11a						Max	EIRP (mW):			
requency	Chain	Software	26dB BW	Duty Cycle	Power	Total	Power	FCC Limit	Max Power	Resul	
(MHz)		Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	. 1000	
	1				18.3						
5500	3 4	q73	25.8	99	18.1	199.8	23.0	24.0		Pass	
	2			P	18.3						
	1				18.9						
5580	3	q73	25.9	99	18.0	203.8	23.1	24.0		Pass	
3300	4	975	20.0			200.0	20.1	24.0		1 430	
	2				18.0				0.204		
	3				16.9 16.2						
5700	4	q66	20.5	99	10.2	133.3	21.2	24.0		Pass	
	2				16.3						
	1				17.9						
5720	3	q73	20.6	99	17.1	164.2	22.2	24.0		Pass	
0.20	4	4. 0	_0.0	"	47.4					. 0.00	
	2				17.1						
ortion wit	hin 5725-585	60 MHz band	i (UNII-3)								
	1				11.6						
5720	3	q73		99	10.6	38.5	15.9	30.0	0.0385	Pass	
**-*	4	4.5		``	44.0						
	2				11.0						

Client:	Ericsson Ca	nada						Job Number:			
Model:	APINM210							Log Number:			
		•					Project Manager: Christine Krebill				
	Nancy Lang						Project	Coordinator:			
Standard:	FCC 15.247	/15.E, RSS-2	247					Class:	N/A		
IIMO Devi	ce - 5470-57	25 MHz Ban	d - Industry	Canada							
Mode:	11a			0 411444			Max	EIRP (mW):	262.5		
requency	Chain	Software	99% BW	Duty Cycle	Power ¹	Total	Power	IC Limit	Max Power	Resu	
(MHz)		Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	11000	
	1				18.3						
5500	3	q73	16.9	99	18.1	196.7	22.9	23.3		Pass	
	2				18.1						
	1				18.9						
5580	3	q73	16.9	99	18.0	203.8	23.1	23.3		Pass	
3300	4	975	10.5			200.0	20.1	20.0		1 450	
	2				18.0 16.9				0.204		
	3			 	16.2						
5700	4	q66	16.8	99	10.2	133.3	21.2	23.3		Pass	
	2				16.3						
	1				17.9						
5720	3	q73	13.6	99	17.1	164.2	22.2	22.3		Pass	
	2	·			17.1						
	2			<u> </u>	17.1		<u>l</u>		<u> </u>		
rtion wit	hin 5725-585	0 MHz band	d (UNII-3)		44.0		I		ı		
	3			H	11.6 10.6						
5720	4	q73		99	10.0	38.5	15.9	30.0	0.0385	Pass	
	2			l f	11.0						

APINM210							Job Number:	JD99841		
AFIINIVIZIO						T-L	og Number:	T99885		
							ect Manager:		ebill	
Nancy Lang						Project Coordinator: -				
FCC 15.247	/15.E, RSS-2	247					Class:	N/A		
SD - FCC/IC	2									
11a										
Chain			Duty Cycle	PSD			FCC Limit	IC limit	Resu	
	Setting	(MHz)	%		mW/MHz	dBm/MHz	dBm/	MHz		
	q73		99	0.1	12.4	10.9	11.0	11.0	Pas	
2				6.1						
1				6.6						
	q73		99	5.9	12.4	10.9	11.0	11.0	Pas	
				6.0						
1										
3	a66		gg	3.8	8 1	0.1	11 0	11 0	Pas	
	qoo				0.1	5.1	11.0	11.0	1 43	
4	q73		99	0.0	12.4	10.9	11.0	11.0	Pas	
2				5.8						
in 5725-585	0 MHz band	I (UNII-3)								
1				6.0						
3	q73		99	4.9	10.5	10.2	30.0	30.0	Pas	
				5.4						
	SD - FCC/IC 11a Chain 1 3 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	SD - FCC/IC 11a Chain Software Setting 1 3 4 2 1 3 4 773 2 1 3 4 773 2 1 3 4 773 2 1 3 773 4 773 2 1 773 773 773 773 773 773 773	CC 15.247/15.E, RSS-247 SD - FCC/IC 11a Chain Software Setting (MHz) 1 3 4 2 1 3 4 773 4 2 1 3 4 773 4 2 1 3 4 773 4 2 1 3 4 773 4 2 1 3 773 773 773 773 773 773 773 773 773	SD - FCC/IC 11a Chain Software Setting (MHz) % 1 3 4 99 2 1 3 99 3 1 99 4 1 3 99 5 1 5725-5850 MHz band (UNII-3)	CC 15.247/15.E, RSS-247 SD - FCC/IC 11a Chain Software Setting (MHz) % dBm/MHz 1 6.3 4 99 6.1 1 6.6 1 6.6 1 6.6 1 7.9 1 8.9 1 99 1 6.7 3 4 99 2 1 6.7 3 4 99 3 8.8 4 99 4 99 5 8.8 In 5725-5850 MHz band (UNII-3) 1 3 6.0 4.9	SD - FCC/IC 11a Chain Software Setting (MHz) W W W/MHz 1	SD - FCC/IC 11a Chain Software Setting (MHz) W BBM Duty Cycle PSD Total PSD1 MW/MHz dBm/MHz 1 3 4 99 6.1 1 2.4 10.9 2 6.6 3 4 99 5.9 1 2.4 10.9 3 4 99 5.0 3 8.1 9.1 3 4 973 99 5.9 1 2.4 10.9 1 3 4 99 5.8 1 5725-5850 MHz band (UNII-3) 1 3 6.0 1 1 3 99 5.8	CC 15.247/15.E, RSS-247 Class: SD - FCC/IC 11a Chain Software Setting (MHz) % dBm/MHz mW/MHz dBm/MHz dBm/MHz 1	SD - FCC/IC T1a Chain Software Setting Software Setting Setting Software Setting Software Setting Software Setting S	



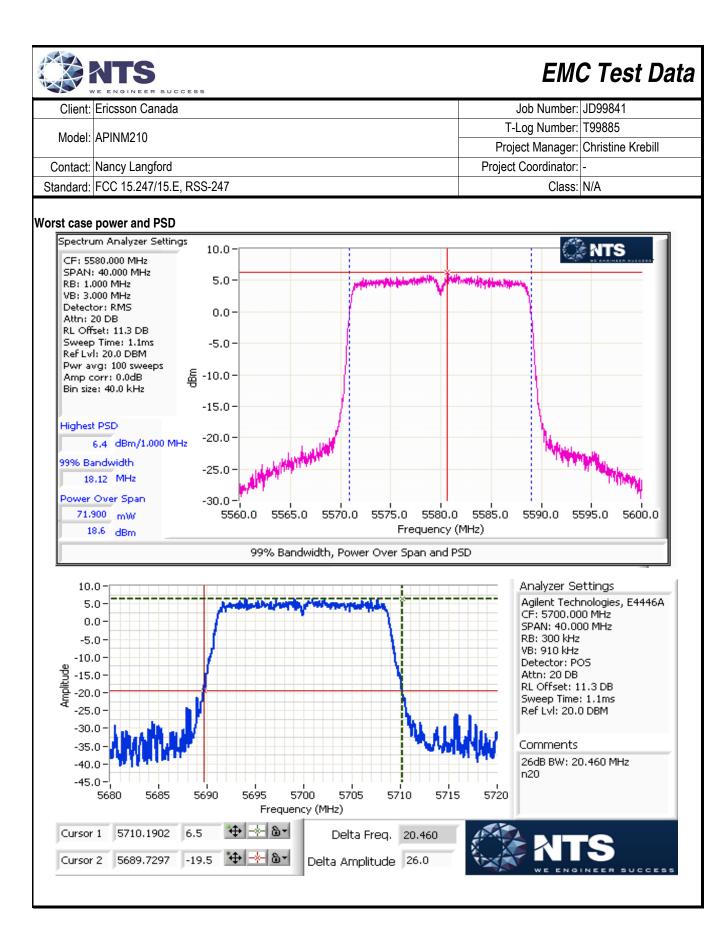


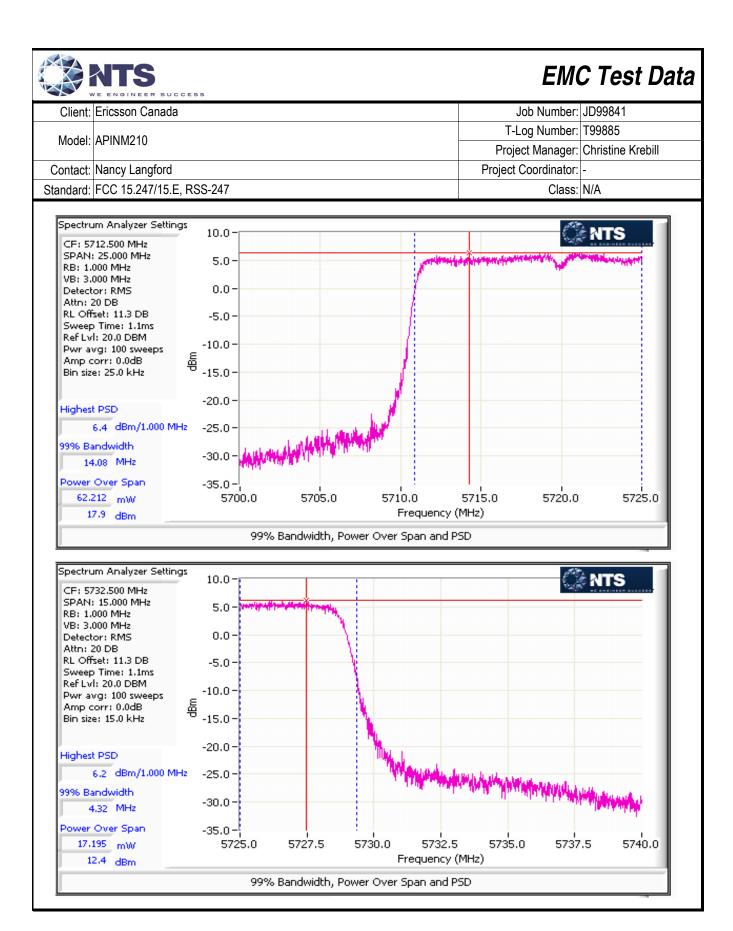


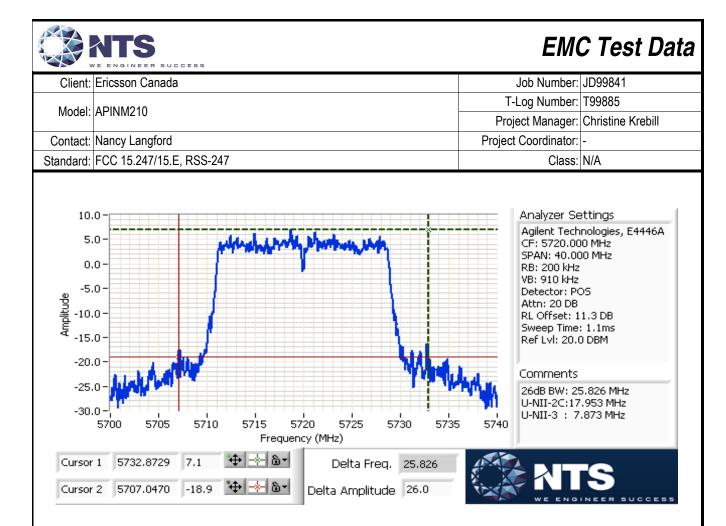
	ATS	SUCCESS						EM	C Test	Data
Client:	Ericsson Ca	nada					,	Job Number:	JD99841	
Model:	APINM210						T-L	og Number:	T99885	
WOUGI.	AF IINIVIZ IU						Project Manager: Christine Krebil			
Contact:	Nancy Lang	ford					Project	Coordinator:	-	
Standard:	FCC 15.247	/15.E, RSS-2	247					Class:	N/A	
MIMO Devid	ce - 5470-57; n20	25 MHz Ban	d - FCC			Max E		eamforming: EIRP (mW):		
Frequency	Chain	Software	26dB BW	Duty Cycle	Power	Total	Power	FCC Limit	Max Power	Result
(MHz)	Onam	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Nesuit
5500	1 3 4 2	q71	23.0	99	18.3 17.7 17.4	181.4	22.6	24.0		Pass
5580	1 3 4 2	q74	25.8	99	18.6 18.4 17.9	203.3	23.1	24.0	0.203	Pass
5700	1 3 4 2	q62	20.5	99	15.8 15.4 15.1	105.1	20.2	24.0	0.203	Pass
5720	1 3 4 2	q74	18.0	99	17.9 17.0	165.5	22.2	23.6		Pass
Portion wit	nin 5725-585	50 MHz band	i (UNII-3)							
5720	1 3 4 2	q74		99	12.4 11.4 11.6	45.6	16.6	30.0	0.0456	Pass

	Ericsson Ca	nada						lob Number:	ID998/11			
Ciletit.	LIICSSUII Ca	IIaua						.og Number:				
Model:	APINM210								Christine Kre	ebill		
Contact:	Nancy Lang	ford					Project Coordinator: -					
	FCC 15.247		247				,	Class:				
	l .						I.		I.			
IIMO Devid :Mode	ce - 5470-57 n20	25 MHz Ban	d - Industry	Canada			Max	EIRP (mW):	261.9			
requency	Chain	Software	99% BW	Duty Cycle	Power ¹	Total	Power	IC Limit	Max Power	Resul		
(MHz)		Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	1\63ui		
	1				18.3							
5500	3 4	q71	18.0	99	17.7	181.4	22.6	23.6		Pass		
	2				17.4							
	1				18.6							
5580	3	q74	18.1	99	18.4	203.3	23.1	23.6		Pass		
	2	'			17.9							
	1				15.8				0.203			
5700	3	a60	18.0	99	15.4	105.1	20.2	23.5		Pass		
3700	4	q62	10.0	99		105.1	20.2	23.5		газз		
	2				15.1							
	3				17.9 17.0							
5720	4	q74	14.1	99	17.0	165.5	22.2	22.5		Pass		
	2				17.3							
ortion wit	hin 5725-585	50 MHz band	i (UNII-3)									
	1				12.4							
5720	3	q74		99	11.4	45.6	16.6	30.0	0.0456	Pass		
	2	·			11.6							

Ericsson Ca							Job Number:	JD99841		
ΔΡΙΝΙΜ210						T-L	og Number:	T99885		
						Project Manager: Christine Krebill				
						Project Coordinator: -				
FCC 15.247	/15.E, RSS-2	247					Class:	N/A		
PSD - FCC/IC n20						4				
Chain									Resu	
1	Setting	(IVITZ)	%		mvv/IVIHz	dBm/MHz	aBm.	/MHZ		
3 4	q71		99	5.1	10.4	10.2	11.0	11.0	Pass	
1 3 4	q74		99	6.4 6.0	12.2	10.9	11.0	11.0	Pass	
1 3 4	q62		99	3.2 2.9	6.5	8.1	11.0	11.0	Pass	
1 3 4 2	q74		99	6.4 5.5 6.7	12.6	11.0	11.0	11.0	Pass	
	0 MHz band	I (UNII-3)								
1 3 4 2	q74		99	6.2 5.4 5.9	11.5	10.6	30.0	30.0	Pass	
	APINM210 Nancy Lang FCC 15.247 PSD - FCC/IC n20 Chain 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 4 2 1 3 4 4 2 1 3 4 4 2 1 3 4 4 2 1 3 4 4 4 4 4 4 8 7 8 8 8 8 8 8 8 8 8 8 8 8	Ericsson Canada APINM210 Nancy Langford FCC 15.247/15.E, RSS-2 PSD - FCC/IC n20 Chain Software Setting 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 2 1 3 4 7 4 2 1 3 4 7 4 2 1 3 4 7 4 2 7 4 2 7 4 2 7 4 2 7 6 6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 9 8 8 8 8 8	Ericsson Canada APINM210 Nancy Langford FCC 15.247/15.E, RSS-247 PSD - FCC/IC n20 Chain Software Setting (MHz) 1 3 4 71 2 1 3 4 74 2 1 3 4 962 1 3 4 974 2 1 3 974 2 1 3 974 2 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974 2 1 1 3 974	Price Pric	Ericsson Canada APINM210 Nancy Langford FCC 15.247/15.E, RSS-247 PSD - FCC/IC n20 Chain Software Setting (MHz) % dBm/MHz 1	Ericsson Canada APINM210 Nancy Langford FCC 15.247/15.E, RSS-247 PSD - FCC/IC n20 Chain Software 99% BW (MHz) % dBm/MHz mW/MHz 1 3 4 99 5.5 1 10.4 2 5.5 1 3 6.4 3 4 99 6.0 12.2 2 1 3 99 6.5 1 3.2 3 4 99 6.5 1 3.3 4 99 6.5 1 3.3 4 99 6.5 1 10.4 1 3.3 1 4 99 6.5 1 10.4 1 3 10.4	Ericsson Canada APINM210 Nancy Langford Nancy Langford Project FCC 15.247/15.E, RSS-247 PSD - FCC/IC n20 Chain Software Setting (MHz) % Duty Cycle MBm/MHz MW/MHz dBm/MHz 1 3 4 71 99 5.5 1 0.4 10.2 2 5.5 1 0.9 4 99 6.0 2 10.9 4 11.5 10.6	T-Log Number: Project Manager: Project Coordinator: Project	Software Setting Set	



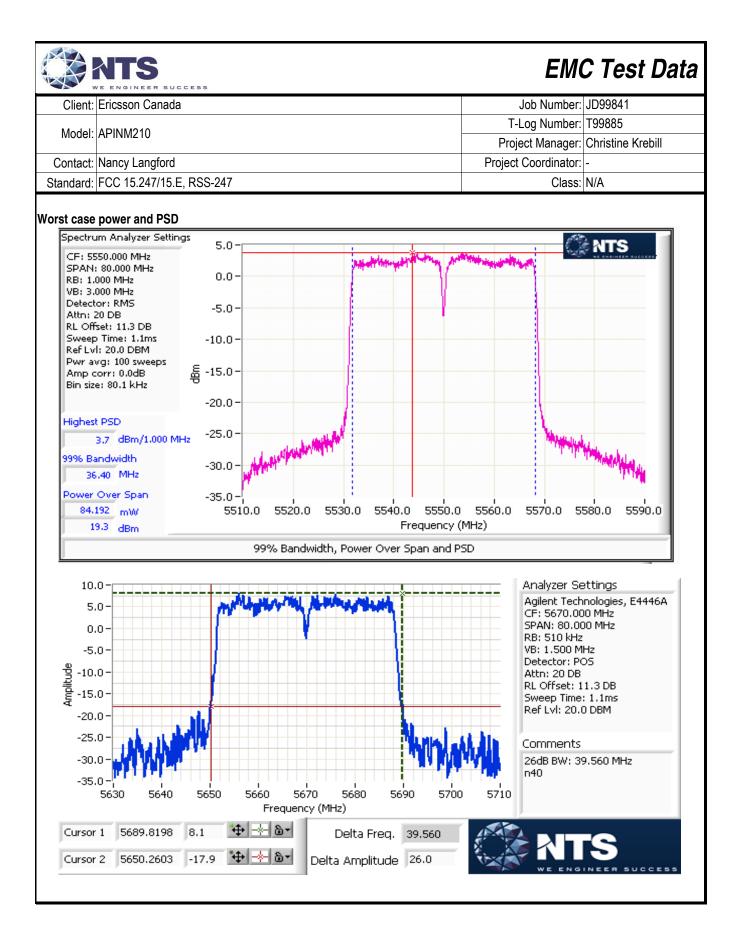




	E ENGINEER	SUCCESS							C Test	<u> Data</u>
Client:	Ericsson Ca	nada			Job Number: JD99841					
Model:	APINM210				T-l	og Number:	T99885	99885		
Model.	AT INIVIZ TO						Proje	ect Manager:	Christine Kre	ebill
Contact:	Nancy Lang	ford					Project	Coordinator:	-	
Standard:	FCC 15.247	/15.E, RSS-2	247					Class:	N/A	
Mode:	ce - 5470-572 n40	25 MHz Ban				Max E	, ,	eamforming: EIRP (mW):		
Frequency	Chain	Software	26dB BW	Duty Cycle	Power	Total I	Power	FCC Limit	Max Power	Result
(MHz)	Onam	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	rtosuit
5510	1 3 4 2	q58	40.36	98	15.0 14.5 14.0	84.9	19.3	24.0		Pass
5550	1 3 4 2	q76	47.9	98	19.3 18.6	223.6	23.5	24.0	0.224	Pass
5670	1 3 4 2	q66	39.6	98	16.7 15.9 16.0	125.5	21.0	24.0	0.224	Pass
5710	1 3 4 2	q76	48.75	98	19.0 18.4 18.4	217.8	23.4	24.0		Pass
Portion with	nin 5725-585	50 MHz band	I (UNII-3)							
5710	1 3 4 2	q76		98	8.9 8.2 8.7	21.8	13.4	30.0	0.0218	Pass

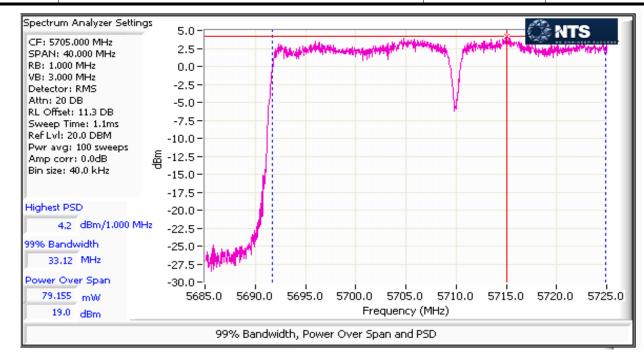
	NTS WE ENGINEER	R SUCCESS						EMO	C Test	Data
Client:	Ericsson Ca	nada		Job Number: JD99841						
Model:	APINM210			T-Log Number: T99885						
Model.	AF IINIVIZ IU				Proje	ect Manager:	Christine Kre	ebill		
Contact:	Nancy Lang	ford			Project	Coordinator:	-			
Standard:	FCC 15.247	/15.E, RSS-2	247			Class:	N/A			
Mode:	ce - 5470-57 n40			Canada			Max	EIRP (mW):	288.1	
Frequency	Chain	Software	99% BW	Duty Cycle	Power ¹	Total	Power	IC Limit	Max Power	Result
(MHz)		Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	rtoodit
	1				15.0					
5510	3 4	q58	36.4	98	14.5	84.9	19.3	24.0		Pass
ł	2			l 1	14.0					
	1				19.3					
5550	3	q76	36.5	98	18.6	223.6	23.5	24.0		Pass
5550	4	470	30.3	30		223.0	23.3	24.0		Fa55
	2				18.2				0.224	
5670	1			98	16.7	125.5				
	3 4	q66	36.4		15.9		21.0	24.0		Pass
	2			l 1	16.0					
	1				19.0					
5710	3	q76	33.1	98	18.4	217.8	23.4	24.0		Pass
37 10	4	470	33.1	30		217.0	20.4	24.0		1 033
	2				18.4			<u> </u>		
Portion wit	hin 5725-585	50 MHz hand	1 (HNII-3)							
OI LIOII WIL	1	o wii iz baiic	(01411-3)		8.9					
E710	3	~76		98	8.2	04.0	13.4	30.0	0.0040	Daga
5710	4	q76		90		21.8	13.4	30.0	0.0218	Pass
	2				8.7					

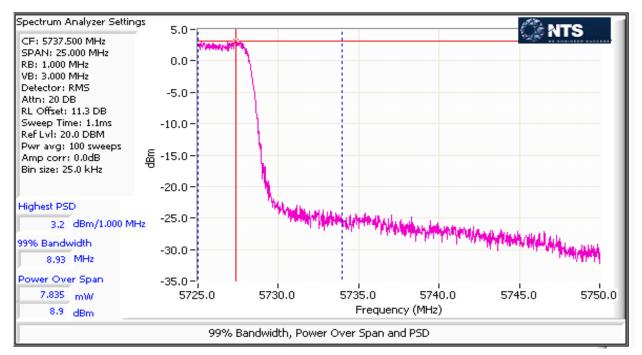
Model: A Contact: N Standard: F	Ericsson Car APINM210 Nancy Langf FCC 15.247/	ford					T-L	lob Number: .og Number:		
Contact: N Standard: F	Nancy Langf							.og mullibel.	1 33003	
Standard: F							Droio	ot Managar	Christina Kr	obill
Standard: F								ct Manager:		EDIII
	-00 15.247	MEE DOC	047				Project	Coordinator:		
IIMO Davias		/ 15.E, RSS-2	247					Class:	N/A	
ilivio Device	e 5470-5725	5 PSD - FCC	/IC							
Mode:	n40	, , , , , , , , , , , , , , , , , , , ,	•							
requency	Chain	Software	99% BW	Duty Cycle	PSD	Total	PSD ¹	FCC Limit	IC limit	Resul
(MHz)	Chain	Setting	(MHz)	%	dBm/MHz	mW/MHz	dBm/MHz	dBm	/MHz	Nesui
	1				-0.3					
5510	3	q58		98	-0.5	2.6	4.1	11.0	11.0	Pass
	4	1			4.4					
+	2 1				-1.1 3.7					
 	3				3.2					
5550	4	q76		98	U.E	6.5	8.1	11.0	11.0	Pass
Г	2				3.2					
	1				1.4					
5670	3	q66		98	0.5	3.8	5.8	11.0	11.0	Pass
	4	900			4.4	0.0	0.0	•	•	
	2 1				1.1 4.2					
	3				3.5					
5710	4	q76		98	0.0	7.4	8.7	11.0	11.0	Pass
Г	2				4.1					
ortion withi		0 MHz band	l (UNII-3)	ı	2.0					
-	1				3.2 3.0					
5710	3	q76		98	3.0	6.1	7.9	30.0	30.0	Pass
	2	ı			3.1					

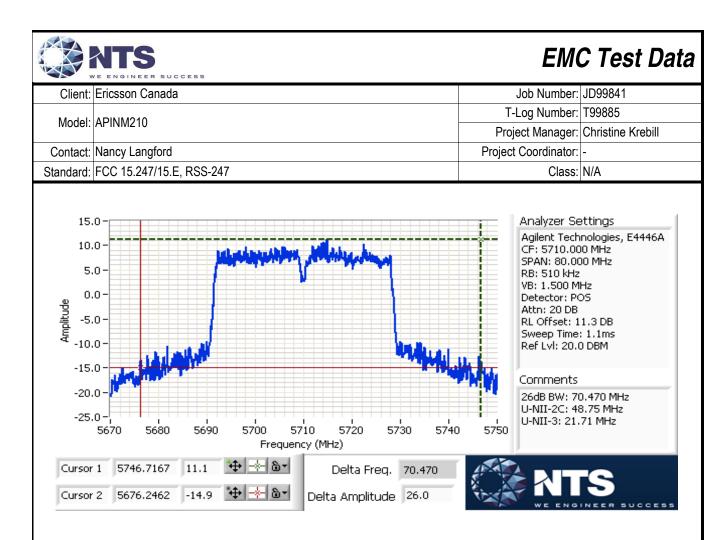




	Control of the Contro		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
wodei.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A



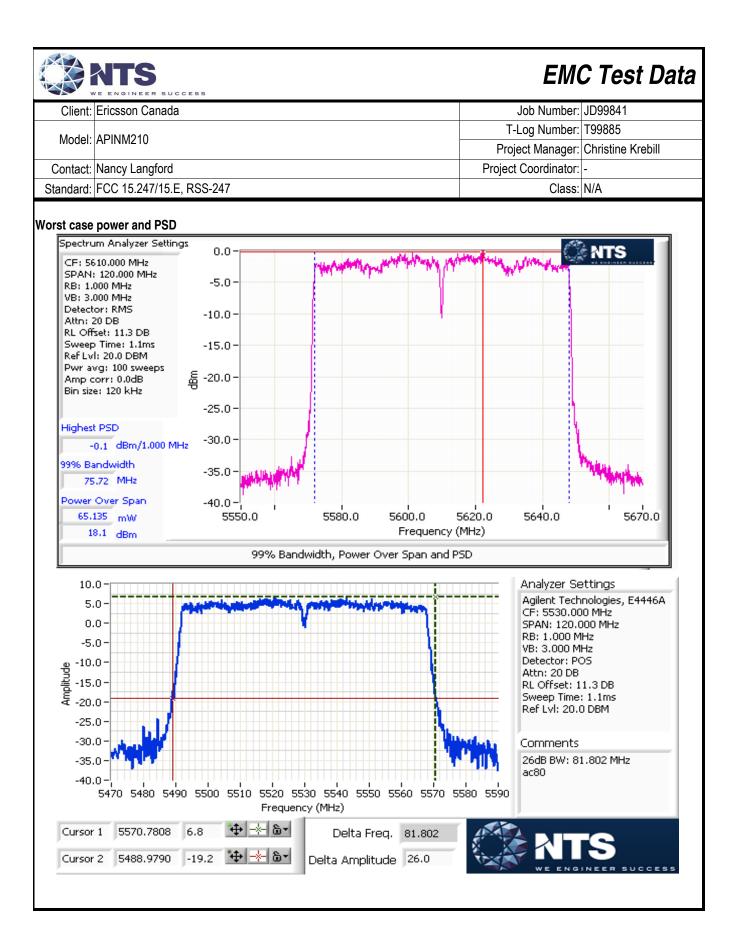


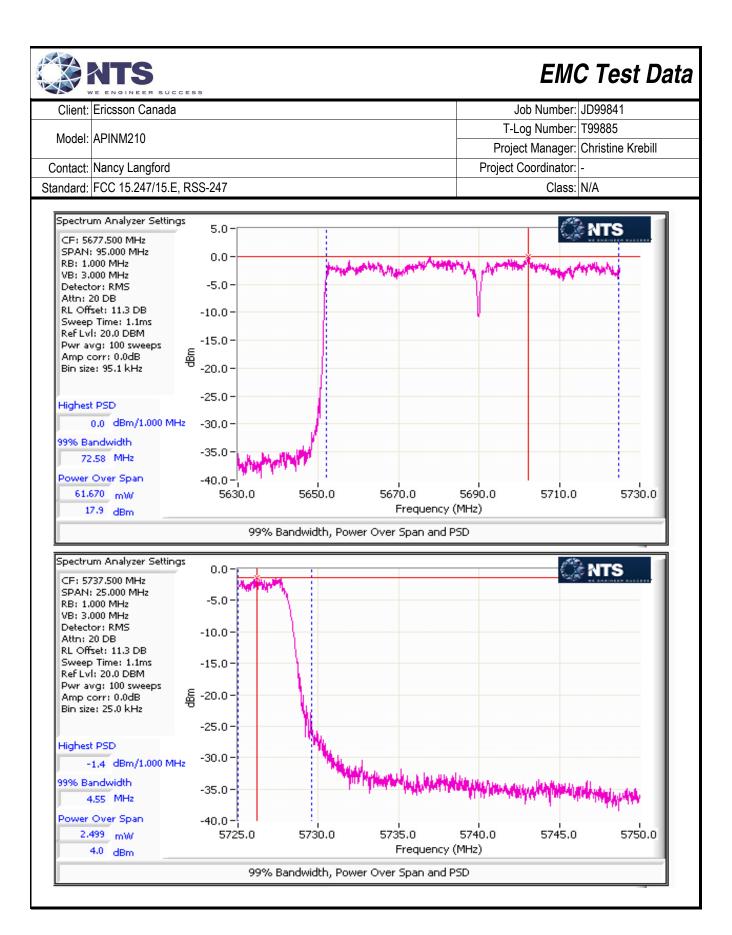


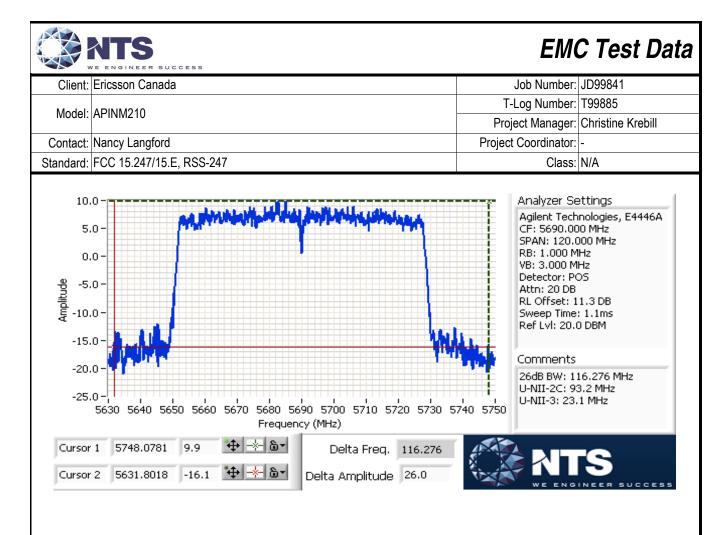
	ATS	SUCCESS						EM	C Test	Data
Client:	Ericsson Ca	nada						Job Number:	JD99841	
Model	APINM210			T-L	og Number:	T99885				
wodei.	AFIINIVIZ IU						Proje	ect Manager:	Christine Kre	ebill
Contact:	Nancy Lang	ford					Project	Coordinator:	-	
Standard:	FCC 15.247	/15.E, RSS-2	247					Class:	N/A	
MIMO Devid	ce - 5470-572 ac80	25 MHz Ban	d - FCC			Max E	IRP (mW) B	eamforming: EIRP (mW):	893.8 302.9	
Frequency	Chain	Software	26dB BW	Duty Cycle	Power	Total F	Power ⁵		Max Power	Dogult
(MHz)	Chain	Setting	(MHz)	%	dBm	mW	dBm	dBm	(W)	Result
5530	1 3 4 2	q60	81.8	77.6	14.8 14.8 13.8	108.7	20.4	24.0		Pass
5610	1 3 4 2	q72	108.2	77.6	18.1 17.9 17.5	235.1	23.7	24.0	0.235	Pass
5690	1 3 4 2	q72	93.2	77.6	17.9 17.5 17.0	216.5	23.4	24.0		Pass
Portion wit	nin 5725-585	0 MHz band	l (UNII-3)							
5690	1 3 4 2	q72		77.6	4.0 3.3 3.0	8.6	9.3	30.0	0.0086	Pass

	NTS	R SUCCESS						ЕМО	C Test	Data
Client:	Ericsson Ca	nada					·	lob Number:	JD99841	
Model	APINM210		T-Log Number: T99885							
woder.	APIINIVIZ IU		Proje	ct Manager:	Christine Kre	bill				
Contact:	Nancy Lang	ford					Project	Coordinator:	-	
Standard:	FCC 15.247	/15.E, RSS-2	247					Class:	N/A	
Mode:	e - 5470-57 ac80	25 MHz Ban						EIRP (mW):		
Frequency	Chain	Software	99% BW	Duty Cycle	Power		Power ⁵	IC Limit	Max Power	Result
(MHz)	1	Setting	(MHz)	%	dBm 14.8	mW	dBm	dBm	(W)	
5530	3 4	q60	75.7	77.6	14.8	108.7	20.4	24.0		Pass
	2				13.8				0.217	
5690	1 3 4 2	q72	72.6	77.6	17.9 17.5 17.0	216.5	23.4	24.0		Pass
Portion with	nin 5725-585	50 MHz band	I (UNII-3)							
5690	1 3 4 2	q72		77.6	4.0 3.3 3.0	8.6	9.3	30.0	0.0086	Pass

	NTS VE ENGINEER	R SUCCESS						EMO	C Test	Data	
Client:	Ericsson Ca	ınada		Job Number: JD99841							
Model:	APINM210						T-Log Number: T99885				
								ect Manager:		ebill	
	Nancy Lang						Project	Coordinator:			
Standard:	FCC 15.247	7/15.E, RSS-2	247					Class:	N/A		
Mode:	PSD - FCC/I0 ac80		Note: 5610	MHz channel			DOD ⁵		10.15.27	Г	
Frequency (MHz)	Chain	Software Setting	(MHz)	Duty Cycle %	PSD dBm/MHz	l otal mW/MHz	PSD ⁵ dBm/MHz	FCC Limit dBm		Result	
5530	1 3 4 2	q60		77.6	-3.4 -3.5 -4.9	1.6	2.0	11.0	11.0	Pass	
5610	1 3 4 2	q72		77.6	-0.1 -0.3 -1.0	3.5	5.4	11.0	-	Pass	
5690	1 3 4 2	q72		77.6	-0.7 -1.2	3.4	5.3	11.0	11.0	Pass	
Portion wit	hin 5725-585	50 MHz band	(UNII-3)								
5690	1 3 4 2	q72		77.6	-1.4 -2.2 -1.9	2.5	4.0	30.0	30.0	Pass	









Client:	Ericsson Canada	Job Number:	JD99841								
Madal	APINM210	T-Log Number:	T99885								
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill								
Contact:	Nancy Langford	Project Coordinator:	-								
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A								

RSS-247 and FCC 15.407 (UNII) Radiated Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing. For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

Ambient Conditions:

22.1 °C Temperature: Rel. Humidity: 36 %

Summary of Results

Jouinnary	oi nesun	.5						
Run#	Mode	Channel	Target Power	Passing Power Setting	Test Performed	Limit	Result / Margin	
Scans on "center" channel in all four OFDM modes to determine the worst case mode.								
	а	60 - 5300MHz	-	q76	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	50.4 dBµV/m @ 5413.6 MHz (-3.6 dB)	
3	n20	60 - 5300MHz	-	q76	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	51.8 dBµV/m @ 5415.5 MHz (-2.2 dB)	
3	n40	54 - 5270MHz	-	q76	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	48.5 dBµV/m @ 5415.6 MHz (-5.5 dB)	
	ac80	58 - 5290MHz	-	q72	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	51.4 dBµV/m @ 5445.2 MHz (-2.6 dB)	
Measureme	nts on low ar	nd high chanı	nels in worst-	-case OFDM	mode.			
4	n20	52 - 5260MHz	-	q76	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	47.7 dBµV/m @ 5038.4 MHz (-6.3 dB)	
4	n20	64 - 5320MHz	-	q65	Radiated Emissions, 1 - 40 GHz	FCC 15.209 / 15 E	67.0 dBµV/m @ 5485.3 MHz (-1.3 dB)	

	ATS	R SUCCESS				EMO	C Test Data			
Client:	ent: Ericsson Canada Job Number: JD99841									
Ma dal	4504040	-	-	-		T-Log Number:	T99885			
Modei:	: APINM210				ļ	Project Manager:				
Contact	: Nancy Lang	ıford				Project Coordinator:				
	: FCC 15.247		247			Class:				
		,								
Summar	y of Result	ts								
•	<u></u>		Tarret	Passing						
Run#	Mode	Channel	Target Power	Power	Test Performed	Limit	Result / Margin			
	'	<u> </u>		Setting						
Scans on "c	center" chann		OFDM mode	s to determin	ne the worst case mode.					
	a	116 -	_ '	q76	Radiated Emissions,	FCC 15.209 / 15 E	51.3 dBµV/m @ 5116.0			
		5580MHz	<u> </u>	ا ۲۰۰	1 - 40 GHz	100 10:200 : : : =	MHz (-2.7 dB)			
1	n20	116 -	_ '	q76	Radiated Emissions,	FCC 15.209 / 15 E	50.3 dBµV/m @ 5122.7			
5		5580MHz	<u> </u> '	ا ۲۰۰	1 - 40 GHz	1 00 10.200	MHz (-3.7 dB)			
	n40	110 -	_ '	q76	Radiated Emissions,	FCC 15.209 / 15 E	51.4 dBµV/m @ 5087.5			
1	ידוו	5550MHz		410	1 - 40 GHz	100 10.2007 10 E	MHz (-2.6 dB)			
1	ac80	106 -	<u> </u>	276	Radiated Emissions,	FCC 15.209 / 15 E	64.1 dBµV/m @ 5309.8			
		5530MHz	'	q76	1 - 40 GHz	FOO 10.209 / 10 L	MHz (-4.2 dB)			
Measureme	ents on low ar	nd high chan	nels in worst	-case OFDM						
		102 -			Radiated Emissions,	FOO 15 200 / 15 E	53.0 dBµV/m @ 5352.8			
6	n40	5510MHz	- '	q58	1 - 40 GHz	FCC 15.209 / 15 E	MHz (-1.0 dB)			
	10	142 -		70	Radiated Emissions,	500 45 000 / 45 F	66.0 dBµV/m @ 5833.8			
6	n40	5710MHz	- '	q76	1 - 40 GHz	FCC 15.209 / 15 E	MHz (-2.3 dB)			
	4						· · · · · ·			



Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
Model.	AFINNIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Procedure Comments:

Measurements performed in accordance with FCC KDB 789033

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time Unless otherwise stated/noted, emission has duty cycle ≥ 98% and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold 50 traces. (method VB of KDB 789033)

Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
11a	6	99.0%	Yes	2.06	0	0	10
n20	MCS0	99.0%	Yes	1.92	0	0	10
n40	MCS0	98.0%	Yes	0.94	0	0	10
ac80	VHT0	77.6%	Yes	0.21	1.1	2.2	4739

Sample Notes

Sample S/N: prototype

Driver: -

Antenna: Internal

Measurement Specific Notes:

Ī		For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method
	Note 1:	required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector). Per KDB 789033 2) c) (i), compliance can be
		demonstrated by meeting the average and peak limits of 15.209, as an alternative.
ſ	Note 3:	Emission has constant duty cycle < 98%, average measurement performed: RBW=1MHz, VBW>1/T but not less than 10Hz,
	Note 3:	peak detector, linear averaging, auto sweep,max hold 50*1/DC traces (method VB of KDB 789033)



'											
Client:	Ericsson Canada	Job Number:	JD99841								
Model	APINM210	T-Log Number:	T99885								
Model.	AFINIMZ 10	Project Manager:	Christine Krebill								
Contact:	Nancy Langford	Project Coordinator:	-								
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A								

Run #3, Radiated Spurious Emissions, 1,000 - 40,000 MHz. Operation in the 5250-5350 MHz Band

Date of Test: 12/3/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Run #3a: Center Channel

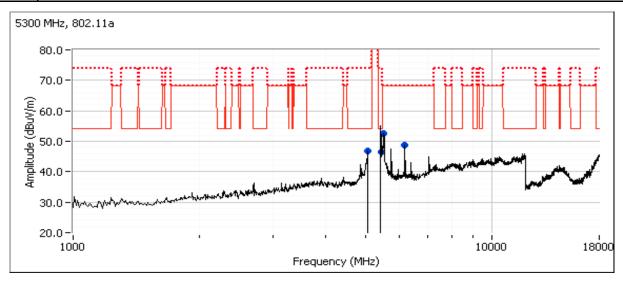
Channel: 60 Mode: a Tx Chain: 3Tx Data Rate: 6

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5413.550	50.4	Н	54.0	-3.6	AVG	247	1.8	RB 1 MHz;VB 10 Hz;Peak
5413.250	61.7	Н	74.0	-12.3	PK	247	1.8	RB 1 MHz;VB 3 MHz;Peak
6183.310	48.2	Н	68.3	-20.1	AVG	272	1.8	RB 1 MHz;VB 10 Hz;Peak
6183.370	53.0	Н	68.3	-15.3	PK	272	1.8	RB 1 MHz;VB 3 MHz;Peak
5522.490	62.5	Н	68.3	-5.8	PK	247	1.6	RB 1 MHz;VB 3 MHz;Peak
5043.150	43.8	Н	54.0	-10.2	AVG	230	1.7	RB 1 MHz;VB 10 Hz;Peak
5041.940	55.6	Н	74.0	-18.4	PK	230	1.7	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





	e everween eeeere		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
Model.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #3b: Center Channel

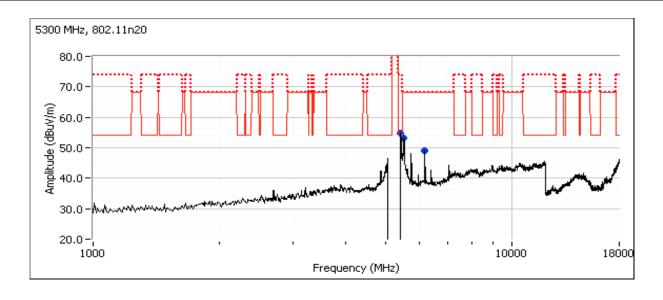
Channel: 60 Mode: 11n20 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.20	9 / 15E	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5415.500	51.8	Н	54.0	-2.2	AVG	243	2.0	RB 1 MHz;VB 10 Hz;Peak			
5415.070	62.5	Н	74.0	-11.5	PK	243	2.0	RB 1 MHz;VB 3 MHz;Peak			
5523.520	59.6	Н	68.3	-8.7	PK	268	1.6	RB 1 MHz;VB 3 MHz;Peak			
6183.330	52.6	Н	68.3	-15.7	PK	262	2.0	RB 1 MHz;VB 3 MHz;Peak			

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





	27 E SERVICE MEDITARIO (LE ESTA CARROLLE DE LA CONTROLLE DE LA		
Client:	Ericsson Canada	Job Number:	JD99841
Modal:	APINM210	T-Log Number:	T99885
Model.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #3c: Center Channel

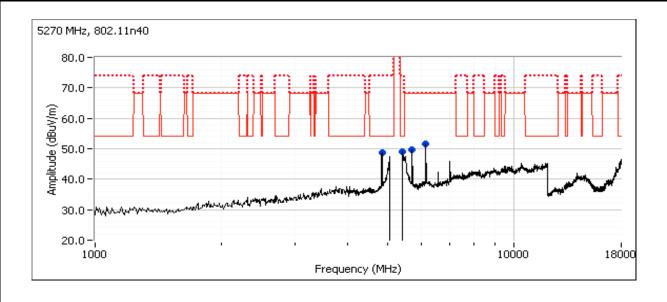
Channel: 54 Mode: 11n40 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5415.580	48.5	Н	54.0	-5.5	AVG	224	1.7	RB 1 MHz;VB 10 Hz;Peak
5414.460	59.4	Н	74.0	-14.6	PK	224	1.7	RB 1 MHz;VB 3 MHz;Peak
6148.570	53.8	Н	68.3	-14.5	PK	254	2.0	RB 1 MHz;VB 3 MHz;Peak
5709.210	53.1	V	68.3	-15.2	PK	291	1.9	RB 1 MHz;VB 3 MHz;Peak
4830.730	47.3	Н	54.0	-6.7	AVG	251	1.9	RB 1 MHz;VB 10 Hz;Peak
4830.710	52.7	Н	74.0	-21.3	PK	251	1.9	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
iviouei.	I: APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #3d: Center Channel

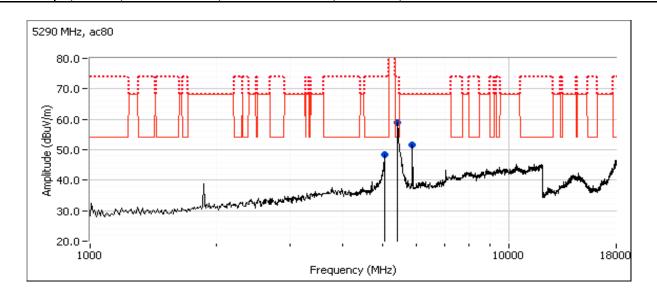
Channel: 58 Mode: ac80 Tx Chain: 3Tx Data Rate: VHT0

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5445.170	51.4	Н	54.0	-2.6	Avg	223	1.9	RB 1 MHz;VB 10 kHz;Peak, note 3
5445.580	62.5	Н	74.0	-11.5	PK	223	1.9	RB 1 MHz;VB 3 MHz;Peak
5877.770	50.9	V	68.3	-17.4	AVG	294	1.8	RB 1 MHz;VB 10 kHz;Peak, note 3
5877.680	55.1	V	68.3	-13.2	PK	294	1.8	RB 1 MHz;VB 3 MHz;Peak
5037.220	43.2	V	54.0	-10.8	AVG	247	2.0	RB 1 MHz;VB 10 kHz;Peak, note 3
5037.440	55.9	V	74.0	-18.1	PK	247	2.0	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
iviouei.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #4: Radiated Spurious Emissions, 1,000 - 40000 MHz. Operating Mode: Worse case from Run #3

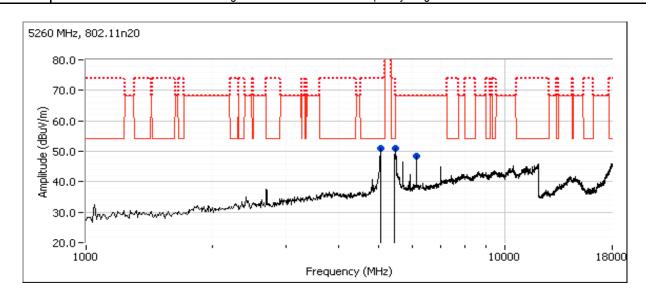
Date of Test: 12/8/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #4 EUT Voltage: 120V/60Hz

Run #4a: Low Channel

Channel: 52 Mode: n20 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5038.400	47.7	V	54.0	-6.3	AVG	223	1.4	RB 1 MHz;VB 10 Hz;Peak
5038.600	57.7	V	74.0	-16.3	PK	223	1.4	RB 1 MHz;VB 3 MHz;Peak
5485.290	59.7	Н	68.3	-8.6	PK	226	1.7	RB 1 MHz;VB 3 MHz;Peak
6136.700	52.5	Н	68.3	-15.8	PK	242	1.8	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range





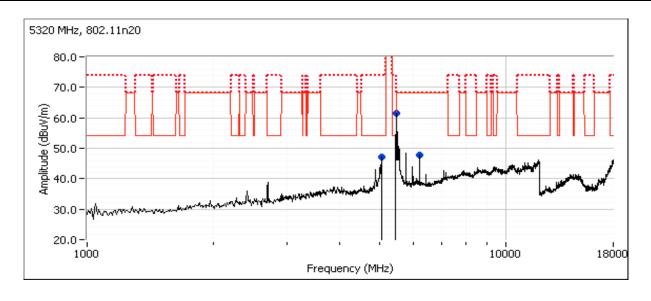
	27 E SERVICE MEDITARIO (LE ESTA CARROLLE DE LA CONTROLLE DE LA		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
Model.	AFINIMZ 10	Project Manager:	T99885 Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #4b: High Channel

Channel: 64 Mode: n20 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5485.290	67.0	Н	68.3	-1.3	PK	233	1.7	RB 1 MHz;VB 3 MHz;Peak
6206.670	52.4	Н	68.3	-15.9	PK	244	1.9	RB 1 MHz;VB 3 MHz;Peak
5046.940	44.1	Н	54.0	-9.9	AVG	239	1.8	RB 1 MHz;VB 10 Hz;Peak
5048.260	55.5	Н	74.0	-18.5	PK	239	1.8	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range





Client:	Ericsson Canada	Job Number:	JD99841
Madali	ADIAMO40	T-Log Number:	T99885
Model:	APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #5, Radiated Spurious Emissions, 1,000 - 40,000 MHz. Operation in the 5470-5725 MHz Band

Date of Test: 12/4/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Run #5a: Center Channel

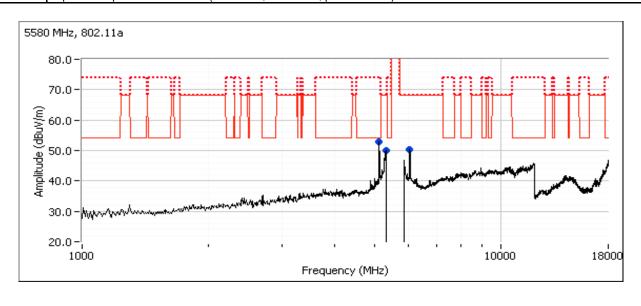
Channel: 116 Mode: a Tx Chain: 3Tx Data Rate: 6

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5115.970	51.3	Н	54.0	-2.7	AVG	229	2.0	RB 1 MHz;VB 10 Hz;Peak
5116.250	61.1	Н	74.0	-12.9	PK	229	2.0	RB 1 MHz;VB 3 MHz;Peak
6043.860	59.1	V	68.3	-9.2	PK	284	2.0	RB 1 MHz;VB 3 MHz;Peak
5301.640	59.8	Н	68.3	-8.5	PK	239	1.6	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





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Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
Model.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #5b: Center Channel

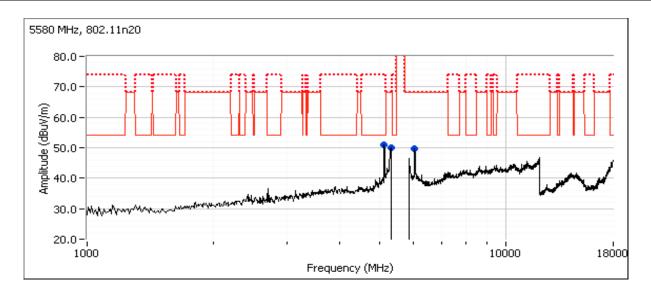
Channel: 116 Mode: 11n20 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.209) / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5122.730	50.3	Н	54.0	-3.7	AVG	242	2.0	RB 1 MHz;VB 10 Hz;Peak
5121.870	59.2	Н	74.0	-14.8	PK	242	2.0	RB 1 MHz;VB 3 MHz;Peak
6044.750	58.7	V	68.3	-9.6	PK	277	2.0	RB 1 MHz;VB 3 MHz;Peak
5299.350	58.8	Н	68.3	-9.5	PK	241	1.4	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
iviouei.	I: APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #5c: Center Channel

Channel: 110 Mode: 11n40 Tx Chain: 3Tx Data Rate: MCS0

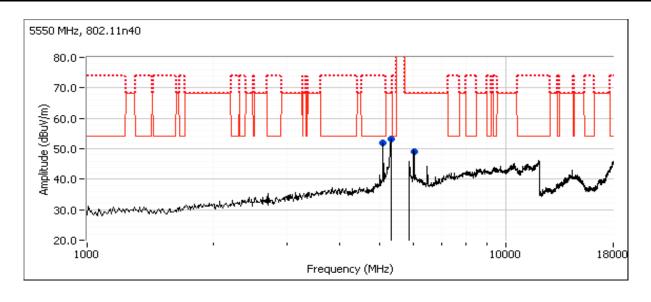
Frequency	Level	Pol	15.209) / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5087.460	51.4	Н	54.0	-2.6	AVG	240	1.9	RB 1 MHz;VB 10 Hz;Peak
5087.530	55.4	Н	74.0	-18.6	PK	240	1.9	RB 1 MHz;VB 3 MHz;Peak
6039.940	49.2	V	68.3	-19.1	PK	295	2.0	RB 1 MHz;VB 3 MHz;Peak
5305.400	61.1	Н	68.3	-7.2	PK	249	1.5	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





Client:	Ericsson Canada	Job Number:	JD99841
Model:	APINM210	T-Log Number:	T99885
iviouei.	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #5d: Center Channel

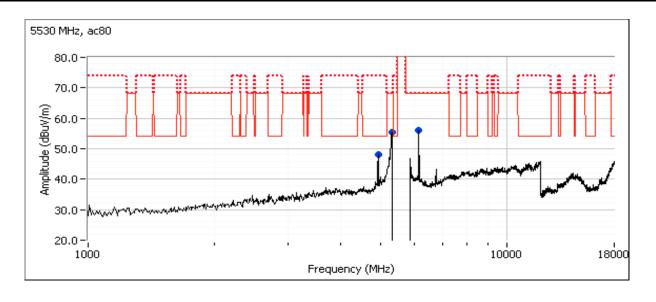
Channel: 106 Mode: ac80 Tx Chain: 3Tx Data Rate: VHT0

Frequency	Level	Pol	15.209	9 / 15E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5309.830	64.1	Н	68.3	-4.2	PK	252	1.5	RB 1 MHz;VB 3 MHz;Peak
6144.510	59.0	V	68.3	-9.3	PK	281	1.5	RB 1 MHz;VB 3 MHz;Peak
4915.550	47.1	V	54.0	-6.9	AVG	243	1.6	RB 1 MHz;VB 10 kHz;Peak, note 3
4915.550	51.9	V	74.0	-22.1	PK	243	1.6	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range

Note 1: For emissions in restricted bands, the limit of 15.209 was used which requires average and peak measurements.

Note 2: For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector).





Client:	Ericsson Canada	Job Number:	JD99841
Modal:	APINM210	T-Log Number:	T99885
iviouei.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #6: Radiated Spurious Emissions, 1,000 - 40000 MHz. Operating Mode: Worse case from Run #5

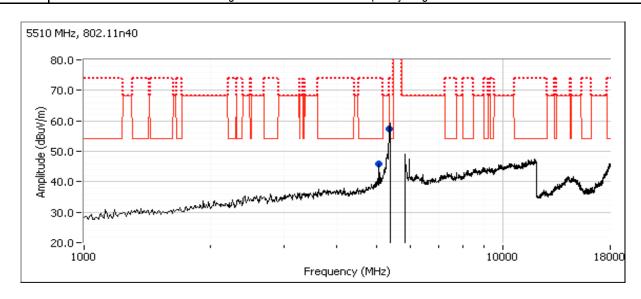
Date of Test: 12/7/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Run #6a: Low Channel

Channel: 102 Mode: 11n40 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.209	15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5352.760	53.0	Н	54.0	-1.0	AVG	208	2.0	RB 1 MHz;VB 10 Hz;Peak
5352.530	61.9	Н	74.0	-12.1	PK	208	2.0	RB 1 MHz;VB 3 MHz;Peak
5050.820	44.3	V	54.0	-9.7	AVG	242	1.6	RB 1 MHz;VB 10 Hz;Peak
5050.740	49.5	٧	74.0	-24.5	PK	242	1.6	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range





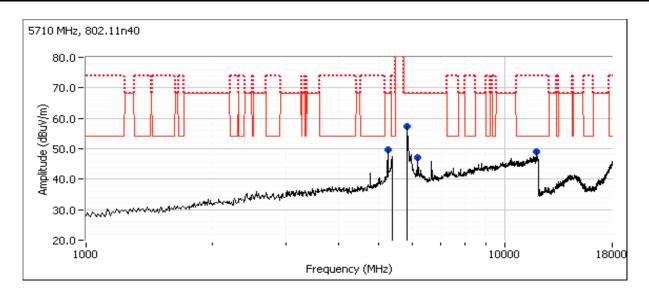
	27 E SERVICE MEDITARIO (LE ESTA CARROLLE DE LA CONTROLLE DE LA		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	APINM210	T-Log Number:	T99885
Model.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #6b: High Channel

Channel: 142 Mode: 11n40 Tx Chain: 3Tx Data Rate: MCS0

Frequency	Level	Pol	15.209	15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5833.830	66.0	V	68.3	-2.3	PK	284	1.9	RB 1 MHz;VB 3 MHz;Peak
5246.410	48.9	Н	68.3	-19.4	PK	201	1.8	RB 1 MHz;VB 3 MHz;Peak
6185.800	52.0	V	68.3	-16.3	PK	253	1.3	RB 1 MHz;VB 3 MHz;Peak
11847.400	43.6	V	54.0	-10.4	AVG	315	1.0	RB 1 MHz;VB 10 Hz;Peak
11843.830	55.3	V	74.0	-18.7	PK	315	1.0	RB 1 MHz;VB 3 MHz;Peak

Note: Scans made between 18 - 40 GHz with the measurement antenna moved around the card and its antennas 20-50cm from the device indicated there were no significant emissions in this frequency range





Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
Model.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

RSS-247 and FCC 15.407 (UNII) Radiated Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the

specification listed above.

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.
For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

Ambient Conditions:

Temperature: 21.6 °C Rel. Humidity: 35 %

Summary of Results

Run #	Mode	Channel	Target Power	Passing Power Setting	Test Performed	Limit	Result / Margin
20MHz Band	dwith Modes			•			
2 UNII-2A		64 - 5320MHz	-	q72	Restricted Band Edge at 5350 MHz	15.209	52.7 dBµV/m @ 5350.0 MHz (-1.3 dB)
		100 - 5500MHz		q73	Restricted Band Edge at 5460 MHz	15.209	48.5 dBµV/m @ 5418.6 MHz (-5.5 dB)
3 UNII-2C	а	100 - 5500MHz	-	q73	Band Edge 5460 - 5470 MHz	15E	52.8 dBµV/m @ 5469.8 MHz (-1.2 dB)
		140 - 5700MHz		q66	Band Edge 5725MHz	15E	72.8 dBµV/m @ 5727.1 MHz (-1.2 dB)
6 UNII-2A		64 - 5320MHz	-	q71	Restricted Band Edge at 5350 MHz	15.209	52.9 dBµV/m @ 5350.1 MHz (-1.1 dB)
		100 - 5500MHz		q71	Restricted Band Edge at 5460 MHz	15.209	46.7 dBµV/m @ 5424.7 MHz (-7.3 dB)
7	n20	100 - 5500MHz		q71	Band Edge 5460 - 5470 MHz	15E	52.9 dBµV/m @ 5469.9 MHz (-1.1 dB)
UNII-2C		140 - 5700MHz	-	q62	Band Edge 5725MHz	15E	72.3 dBµV/m @ 5734.3 MHz (-1.7 dB)
		136 - 5680MHz		q72	Band Edge 5725MHz	15E	67.2 dBµV/m @ 5726.0 MHz (-1.1 dB)

	NTS.	R SUCCESS				EM	C Test Data		
Client:	Ericsson Ca	anada				Job Number:	JD99841		
	4 DIN IN 40 4 0					T-Log Number:	T99885		
Model:	APINM210					Project Manager:	Christine Krebill		
Contact:	Nancy Lang	ford				Project Coordinator:	-		
		7/15.E, RSS-2	247			Class:	N/A		
Summary	of Resul	ts							
Run#	Mode	Channel	Target Power	Passing Power Setting	Test Performed	Limit	Result / Margin		
40MHz Ban	dwith Modes								
10		62 - 5310MHz		q62	Restricted Band Edge at 5350 MHz	15.209	52.5 dBµV/m @ 5350.1 MHz (-1.5 dB)		
UNII-2A		54 - 5270MHz	_	q78	Restricted Band Edge at 5350 MHz	15.209	52.9 dBµV/m @ 5351.8 MHz (-1.1 dB)		
		102 - 5510MHz		q60	Restricted Band Edge at 5460 MHz	15.209	47.2 dBµV/m @ 5459.9 MHz (-6.8 dB)		
	n40	102 - 5510MHz	-	-	-	q60	Band Edge 5460 - 5470 MHz	15E	72.8 dBµV/m @ 5469.8 MHz (-1.2 dB)
11 UNII-2C		110 - 5550MHz				-	q76	Restricted Band Edge at 5460 MHz	15.209
		110 - 5550MHz							q76
		134 - 5670MHz		q66	Band Edge 5725MHz	15E	52.9 dBµV/m @ 5732.2 MHz (-1.1 dB)		
	dwith Modes								
14 UNII-2A		58 - 5290MHz	-	q61	Restricted Band Edge at 5350 MHz	15.209	53.0 dBµV/m @ 5357.5 MHz (-1.0 dB)		
		106 - 5530MHz		.00	Restricted Band Edge at 5460 MHz	15.209	53.0 dBµV/m @ 5457.9 MHz (-1.0 dB)		
15	ac80	106 - 5530MHz	-	q60	Band Edge 5460 - 5470 MHz	15E	65.9 dBµV/m @ 5468.0 MHz (-2.4 dB)		
UNII-2C		122 - 5610MHz		.70	Restricted Band Edge at 5460 MHz	15.209	52.6 dBµV/m @ 5458.0MHz (-1.4 dB)		
		122 -	-	q76	Band Edge 5460 - 5470	15E	67.0 dBµV/m @ 5464.6		

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

5610MHz

MHz

MHz (-1.3 dB)



	TENGINEER SOCCESS		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
iviodei.	APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Procedure Comments:

Measurements performed in accordance with FCC KDB 789033

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time
Unless otherwise stated/noted, emission has duty cycle ≥ 98% and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold 50 traces. (method VB of KDB 789033)

	Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
	11a	6	99.0%	Yes	2.06	0	0	10
	n20	MCS0	99.0%	Yes	1.92	0	0	10
	n40	MCS0	98.0%	Yes	0.94	0	0	10
ſ	ac80	VHT0	77.6%	Yes	0.21	1.1	2.2	4739

Sample Notes

Sample S/N: prototype

Driver: -

Antenna: Internal

Measurement Specific Notes:

	For emissions outside of the restricted bands the limit is -27dBm/MHz eirp (68.3dBuV/m). The measurement method
Note 1:	required is a peak measurement (RB=1MHz, VB≥3MHz, peak detector). Per KDB 789033 2) c) (i), compliance can be
	demonstrated by meeting the average and peak limits of 15.209, as an alternative.
Note 3:	Emission has constant duty cycle < 98%, average measurement performed: RBW=1MHz, VBW>1/T but not less than 10Hz,
Note 5.	peak detector, linear averaging, auto sweep,max hold 50*1/DC traces (method VB of KDB 789033)
Note 5:	Plots of the average and peak bandedge do not account for any duty cycle correction. Refer to the tabular results for final
note 5.	measurements.



Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
iviouei.	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

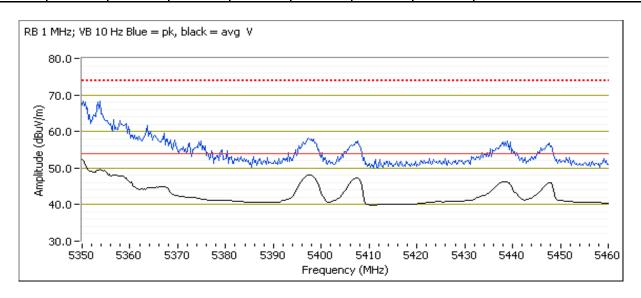
Run #2: Radiated Bandedge Measurements, 5250-5350MHz

Date of Test: 11/23/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 64 - 5320MHz

Tx Chain: 3Tx Mode: a Data Rate: 6

OOOO MII IZ E	book little Batta Eage olgital Hadiatea Field Otterigitt										
Frequency	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5350.000	52.7	V	54.0	-1.3	AVG	250	1.8	POS; RB 1 MHz; VB: 10 Hz			
5350.480	69.1	V	74.0	-4.9	PK	250	1.8	POS; RB 1 MHz; VB: 3 MHz			
5350.080	52.4	Н	54.0	-1.6	AVG	292	2.0	POS; RB 1 MHz; VB: 10 Hz			
5353.610	68.6	Н	74.0	-5.4	PK	292	2.0	POS; RB 1 MHz; VB: 3 MHz			





Client:	Ericsson Canada	Job Number:	JD99841							
Madali	APINM210	T-Log Number:	T99885							
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill							
Contact:	Nancy Langford	Project Coordinator:	-							
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A							

Run #3: Radiated Bandedge Measurements, 5470-5725MHz

Date of Test: 11/23/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 100 - 5500MHz

Tx Chain: 3Tx Mode: a Data Rate: 6

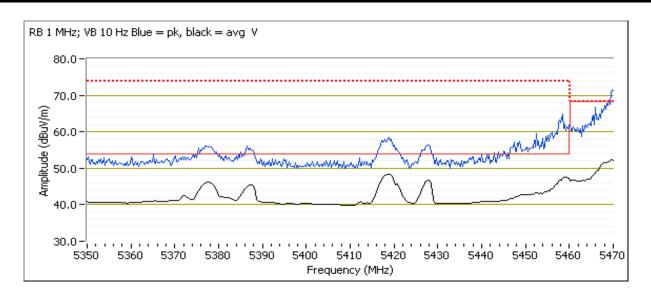
5460 MHz Band Edge Signal Radiated Field Strength

STOU WITTE	5400 Minz Band Edge Signal hadiated Field Strength									
Frequency	Level	Pol	FCC '	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5418.640	48.5	V	54.0	-5.5	AVG	261	2.5	POS; RB 1 MHz; VB: 10 Hz		
5418.190	58.5	V	74.0	-15.5	PK	261	2.5	POS; RB 1 MHz; VB: 3 MHz		
5459.280	47.5	V	54.0	-6.5	AVG	261	2.5	POS; RB 1 MHz; VB: 10 Hz		
5458.800	64.1	V	74.0	-9.9	PK	261	2.5	POS; RB 1 MHz; VB: 3 MHz		
5458.840	47.5	Н	54.0	-6.5	AVG	302	1.6	POS; RB 1 MHz; VB: 10 Hz		
5457.720	65.0	Н	74.0	-9.0	PK	302	1.6	POS; RB 1 MHz; VB: 3 MHz		
5420.480	47.1	Н	54.0	-6.9	AVG	302	1.6	POS; RB 1 MHz; VB: 10 Hz		
5427.000	56.5	Н	74.0	-17.5	PK	302	1.6	POS; RB 1 MHz; VB: 3 MHz		

347 0 MITTE D	547 0 Minz Band Lage Signal Hadiated Field Strength										
Frequency	Level	Pol	15	i.E	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5469.800	52.8	V	54.0	-1.2	AVG	261	2.5	POS; RB 1 MHz; VB: 10 Hz, note 1			
5469.820	71.7	V	74.0	-2.3	PK	261	2.5	POS; RB 1 MHz; VB: 3 MHz, note 1			
5469.540	52.7	Η	54.0	-1.3	AVG	302	1.6	POS; RB 1 MHz; VB: 10 Hz, note 1			
5468.860	71.2	Н	74.0	-2.8	PK	302	1.6	POS; RB 1 MHz; VB: 3 MHz, note 1			



	The state of the s			
Client:	Ericsson Canada	Job Number:	JD99841	
Model	APINM210	T-Log Number:	T99885	
Model.	AFINNIZ 10	Project Manager:	Christine Krebill	
Contact:	Nancy Langford	Project Coordinator:	-	
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A	



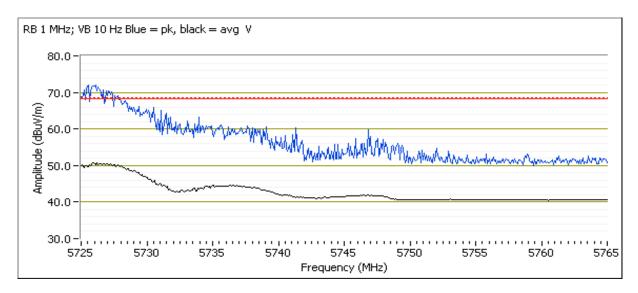


Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Channel: 140 - 5700MHz

Tx Chain: 3Tx Mode: a Data Rate:

Frequency	Level	Pol	15	.E	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5726.520	52.2	V	54.0	-1.8	AVG	228	2.3	POS; RB 1 MHz; VB: 10 Hz, note 1		
5727.080	72.8	V	74.0	-1.2	PK	228	2.3	POS; RB 1 MHz; VB: 3 MHz, note 1		
5728.050	51.8	Н	54.0	-2.2	AVG	294	1.6	POS; RB 1 MHz; VB: 10 Hz, note 1		
5728.690	72.2	Н	74.0	-1.8	PK	294	1.6	POS; RB 1 MHz; VB: 3 MHz, note 1		





	1		
Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
iviodei.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

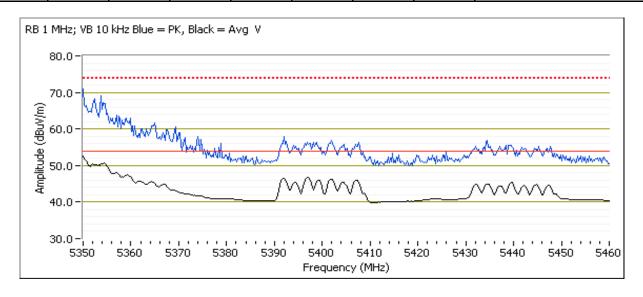
Run #6: Radiated Bandedge Measurements, 5250-5350MHz

Date of Test: 11/23/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 64 - 5320MHz

Tx Chain: 3Tx Mode: n20 Data Rate: MCS0

OOOO MII IZ E	book little Batta Eage olgital Hadiatea Field Otterigitt									
Frequency	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5350.080	52.9	V	54.0	-1.1	AVG	243	2.0	POS; RB 1 MHz; VB: 10 Hz		
5354.090	72.5	V	74.0	-1.5	PK	243	2.0	POS; RB 1 MHz; VB: 3 MHz		
5350.080	52.7	Н	54.0	-1.3	AVG	292	1.5	POS; RB 1 MHz; VB: 10 Hz		
5354.330	72.6	Н	74.0	-1.4	PK	292	1.5	POS; RB 1 MHz; VB: 3 MHz		





Client:	Ericsson Canada	Job Number:	JD99841							
Madali	APINM210	T-Log Number:	T99885							
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill							
Contact:	Nancy Langford	Project Coordinator:	-							
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A							

Run #7: Radiated Bandedge Measurements, 5470-5725MHz

Date of Test: 11/23/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 100 - 5500MHz

Tx Chain: 3Tx Mode: n20 Data Rate: MCS0

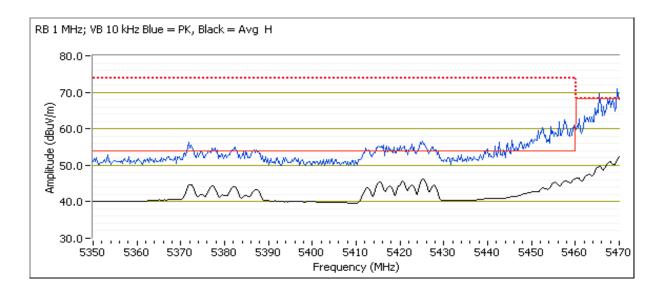
5460 MHz Band Edge Signal Radiated Field Strength

0.00	7 TOO III II DANG TAGO OIGINA MAGAACA I TOTA OTTOTIGUI									
Frequency	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5424.730	46.7	Н	54.0	-7.3	AVG	298	1.3	POS; RB 1 MHz; VB: 10 Hz		
5454.870	63.9	Н	74.0	-10.1	PK	298	1.3	POS; RB 1 MHz; VB: 3 MHz		
5459.920	46.4	V	54.0	-7.6	AVG	268	2.3	POS; RB 1 MHz; VB: 10 Hz		
5459.840	63.5	V	74.0	-10.5	PK	268	2.3	POS; RB 1 MHz; VB: 3 MHz		

Frequency	Level	Pol	15	i.E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5469.920	52.9	Н	54.0	-1.1	AVG	298	1.3	POS; RB 1 MHz; VB: 10 Hz, note 1
5467.310	70.9	Н	74.0	-3.1	PK	298	1.3	POS; RB 1 MHz; VB: 3 MHz, note 1
5469.980	52.4	٧	54.0	-1.6	AVG	268	2.3	POS; RB 1 MHz; VB: 10 Hz, note 1
5469.220	71.0	V	74.0	-3.0	PK	268	2.3	POS; RB 1 MHz; VB: 3 MHz, note 1



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Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
wodei.	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A





	COLOR DE VIEW PROPERTY DE LA CONTRACTOR DE LA COLOR DE		
Client:	Ericsson Canada	Job Number:	JD99841
Madal	APINM210	T-Log Number:	T99885
iviouei.	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

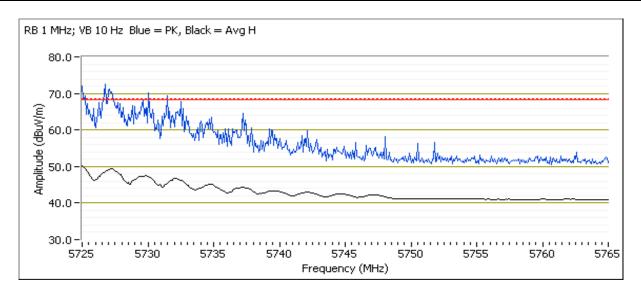
Date of Test: 11/24/2015 0:00
Test Engineer: Rafael Varelas
Test Location: FT Chamber #7

Config. Used: 1 Config Change: None EUT Voltage: 120V/60Hz

Channel: 140 - 5700MHz

Tx Chain: 3Tx Mode: n20 Data Rate: MCS0

Frequency	Level	Pol	15	i.E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5734.300	72.3	Н	74.0	-1.7	PK	276	1.8	POS; RB 1 MHz; VB: 10 Hz, note 1
5725.000	50.1	Н	54.0	-3.9	AVG	276	1.8	POS; RB 1 MHz; VB: 3 MHz, note 1
5725.000	49.1	V	54.0	-4.9	AVG	250	1.6	POS; RB 1 MHz; VB: 10 Hz, note 1
5727.080	70.0	V	74.0	-4.0	PK	250	1.6	POS; RB 1 MHz; VB: 3 MHz, note 1



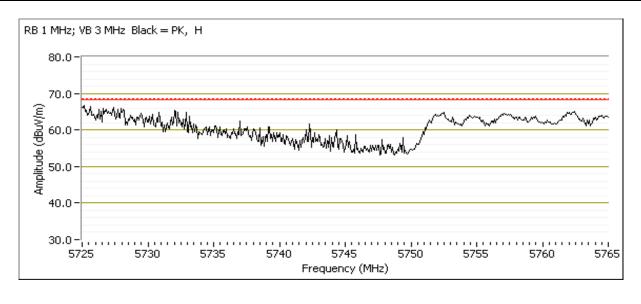


Client:	Ericsson Canada	Job Number:	JD99841						
Madalı	APINM210	T-Log Number:	T99885						
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill						
Contact:	Nancy Langford	Project Coordinator:	-						
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A						

Channel: 136 - 5680MHz

Tx Chain: 3Tx Mode: n20 Data Rate: MCSO

JI ZJ WII IZ D	3723 WHIZ Band Edge Oighai Hadiated Field Ottength										
Frequency	Level	Pol	15	5.E	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5725.990	67.2	Н	68.3	-1.1	PK	281	1.5	POS; RB 1 MHz; VB: 3 MHz			
5725.000	65.7	V	68.3	-2.6	PK	250	1.7	POS; RB 1 MHz; VB: 3 MHz			





100	774 30-980 HHD 3774 RES 3774 RES 3775 R		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
Model.	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

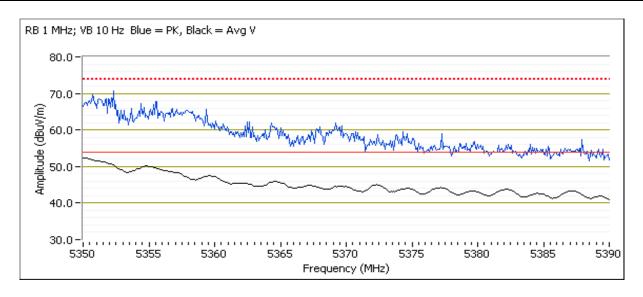
Run #10: Radiated Bandedge Measurements, 5250-5350MHz

Date of Test: 11/24/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 62 - 5310MHz

Tx Chain: 3Tx Mode: n40 Data Rate: MCS0

	ooo iiii 2 2ana 2ago orgina naaratoa nora orongin									
Frequency	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5350.080	52.5	V	54.0	-1.5	AVG	244	2.5	POS; RB 1 MHz; VB: 10 Hz		
5350.640	72.0	V	74.0	-2.0	PK	244	2.5	POS; RB 1 MHz; VB: 3 MHz		
5350.000	52.0	Н	54.0	-2.0	AVG	288	1.8	POS; RB 1 MHz; VB: 10 Hz		
5350.560	72.1	Н	74.0	-1.9	PK	288	1.8	POS; RB 1 MHz; VB: 3 MHz		



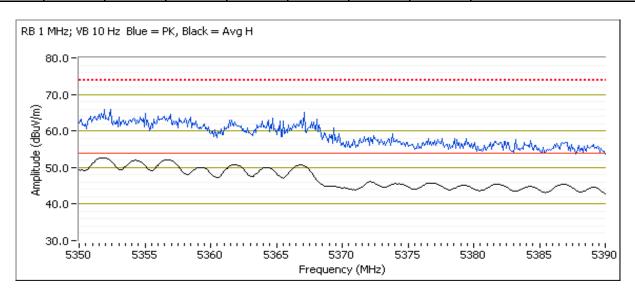


Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Channel: 54 - 5270MHz

Tx Chain: 3Tx Mode: n40 Data Rate: MCS0

JUJU WITTE	3030 Miliz Band Eage Signal Hadiated Field Strength									
Frequency	Level	Pol	FCC ²	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5351.840	52.9	Н	54.0	-1.1	AVG	270	1.8	POS; RB 1 MHz; VB: 10 Hz		
5352.320	65.9	Н	74.0	-8.1	PK	270	1.8	POS; RB 1 MHz; VB: 3 MHz		
5351.840	52.2	V	54.0	-1.8	AVG	214	1.7	POS; RB 1 MHz; VB: 10 Hz		
5356.650	64.6	V	74.0	-9.4	PK	214	1.7	POS; RB 1 MHz; VB: 3 MHz		





Client:	Ericsson Canada	Job Number:	JD99841						
Madalı	APINM210	T-Log Number:	T99885						
iviodei.	APINM210	Project Manager:	Christine Krebill						
Contact:	Nancy Langford	Project Coordinator:	-						
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A						

Run #11: Radiated Bandedge Measurements, 5470-5725MHz

Date of Test: 11/24/2015 0:00 Config. Used: 1
Test Engineer: Rafael Varelas Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 102 - 5510MHz

Tx Chain: 3Tx Mode: n40 Data Rate: MCS0

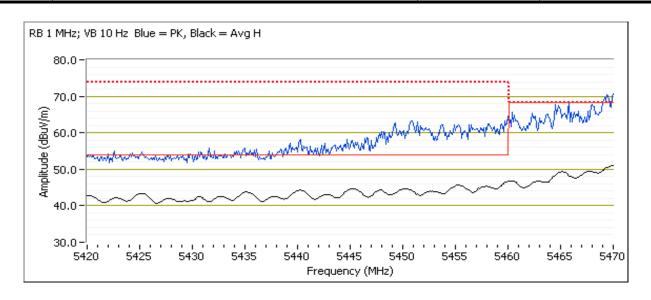
5460 MHz Band Edge Signal Radiated Field Strength

O TOO IIII IZ Z	o too mine band bago olgina nadatoa i lola ottorigin										
Frequency	Level	Pol	FCC 1	15.209	Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5459.920	47.2	Н	54.0	-6.8	AVG	296	1.2	POS; RB 1 MHz; VB: 10 Hz			
5459.600	64.9	Н	74.0	-9.1	PK	296	1.2	POS; RB 1 MHz; VB: 3 MHz			
5460.000	46.7	V	54.0	-7.3	AVG	276	2.1	POS; RB 1 MHz; VB: 10 Hz			
5452.380	63.4	V	74.0	-10.6	PK	276	2.1	POS; RB 1 MHz; VB: 3 MHz			

Frequency	Level	Pol	15	i.E	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
5469.840	72.8	Н	74.0	-1.2	PK	296	1.2	POS; RB 1 MHz; VB: 3 MHz, note 1
5469.900	51.3	Н	54.0	-2.7	AVG	296	1.2	POS; RB 1 MHz; VB: 10 Hz, note 1
5470.000	51.1	V	54.0	-2.9	AVG	276	2.1	POS; RB 1 MHz; VB: 3 MHz, note 1
5469.080	72.3	V	74.0	-1.7	PK	276	2.1	POS; RB 1 MHz; VB: 10 Hz, note 1



	Sept Monthly Harmon many Barbon Supplement to the		
Client:	Ericsson Canada	Job Number:	JD99841
Madalı	APINM210	T-Log Number:	T99885
iviodei:	AFINNIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A





Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM210	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

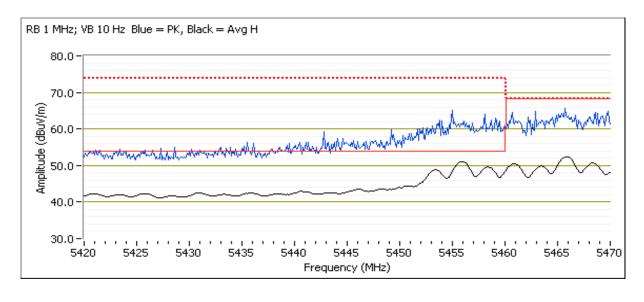
Channel: 110 - 5550MHz

Tx Chain: 3Tx Mode: n40 Data Rate: MCS0

5460 MHz Band Edge Signal Radiated Field Strength

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Frequency	Level	Pol	FCC ²	15.209	Detector	Azimuth	Height	Comments		
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters			
5455.910	51.1	Н	54.0	-2.9	AVG	236	1.0	POS; RB 1 MHz; VB: 10 Hz		
5459.520	63.7	Н	74.0	-10.3	PK	236	1.0	POS; RB 1 MHz; VB: 3 MHz		
5459.920	50.1	V	54.0	-3.9	AVG	258	2.1	POS; RB 1 MHz; VB: 10 Hz		
5457.920	63.2	V	74.0	-10.8	PK	258	2.1	POS; RB 1 MHz; VB: 3 MHz		

Frequency	Level	Pol	15.E		Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
5465.790	52.4	Η	54.0	-1.6	AVG	236	1.0	POS; RB 1 MHz; VB: 3 MHz, note 1	
5466.270	68.1	Η	74.0	-5.9	PK	236	1.0	POS; RB 1 MHz; VB: 10 Hz, note 1	
5465.190	52.0	V	54.0	-2.0	AVG	258	2.1	POS; RB 1 MHz; VB: 3 MHz, note 1	
5464.510	67.6	V	74.0	-6.4	PK	258	2.1	POS; RB 1 MHz; VB: 10 Hz, note 1	



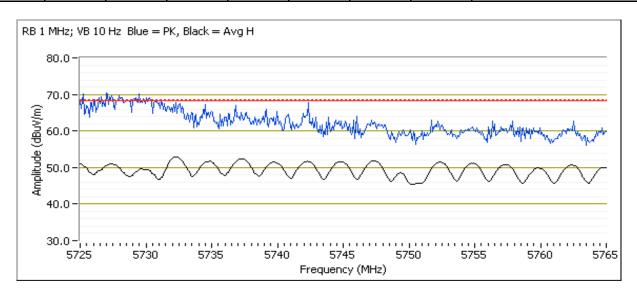


Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM210	T-Log Number:	T99885
	AFTININZ TO	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Channel: 134 - 5670MHz

Tx Chain: 3Tx Mode: n40 Data Rate: MCS0

57 25 Miliz Balla Eage Signal Hadiated Field Strength									
Frequency	Level	Pol	15	5.E	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
5732.210	52.9	Н	54.0	-1.1	AVG	284	1.6	POS; RB 1 MHz; VB: 3 MHz, note 1	
5730.050	70.4	Н	74.0	-3.6	PK	284	1.6	POS; RB 1 MHz; VB: 10 Hz, note 1	
5732.540	51.3	V	54.0	-2.7	AVG	252	1.6	POS; RB 1 MHz; VB: 3 MHz, note 1	
5731.090	67.5	V	74.0	-6.5	PK	252	1.6	POS; RB 1 MHz; VB: 10 Hz, note 1	





Client:	Ericsson Canada	Job Number:	JD99841
Model:	A DIAMAGAG	T-Log Number:	T99885
	APINM210	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

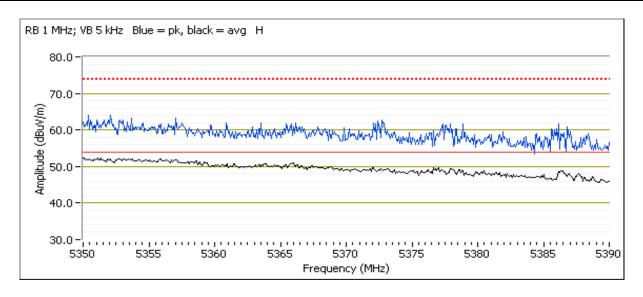
Run #14: Radiated Bandedge Measurements, 5250-5350MHz

Date of Test: 11/25/2015 0:00 Config. Used: 1
Test Engineer: John Caizzi Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 58 - 5290MHz

Tx Chain: 3Tx Mode: ac80 Data Rate: VHT0

	ood mile Baria Bago orginar radiated i rola offerigur											
Frequency	Level	Pol	FCC 15.209		Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
5350.480	53.0	V	54.0	-1.0	Avg	232	2.25	RB 1 MHz; VB: 5 kHz. Note 3				
5351.360	65.9	V	74.0	-8.1	PK	232	2.25	POS; RB 1 MHz; VB: 3 MHz				
5357.540	53.0	Н	54.0	-1.0	Avg	288	1.77	RB 1 MHz; VB: 5 kHz. Note 3				
5354.650	64.5	Н	74.0	-9.5	PK	288	1.77	POS; RB 1 MHz; VB: 3 MHz				





	1		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

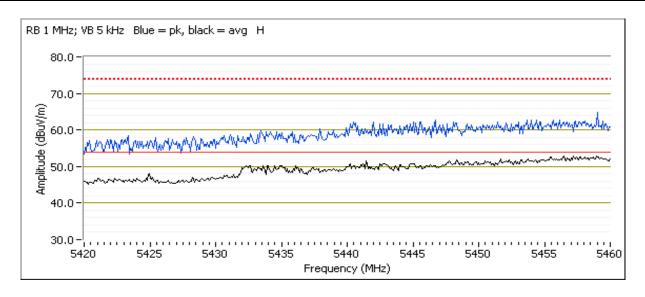
Run #15: Radiated Bandedge Measurements, 5470-5725MHz

Date of Test: 11/25/2015 0:00 Config. Used: 1
Test Engineer: John Caizzi Config Change: None
Test Location: FT Chamber #7 EUT Voltage: 120V/60Hz

Channel: 106 - 5530MHz

Tx Chain: 3Tx Mode: ac80 Data Rate: VHT0

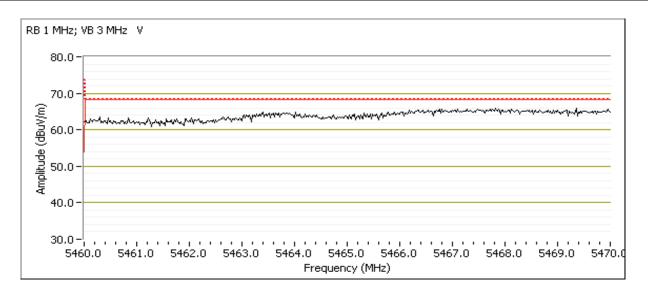
e ree mine e mar e mar e mar e mar a m									
Frequency	Level	Pol	FCC 15.209		Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
5457.920	53.0	Η	54.0	-1.0	Avg	239	1.43	RB 1 MHz; VB: 5 kHz. Note 3	
5454.150	64.5	Н	74.0	-9.5	PK	239	1.43	POS; RB 1 MHz; VB: 3 MHz	
5457.190	52.2	V	54.0	-1.8	Avg	289	2.45	RB 1 MHz; VB: 5 kHz. Note 3	
5456.870	63.7	V	74.0	-10.3	PK	289	2.45	POS; RB 1 MHz; VB: 3 MHz	





	1-91 - 90-91809 - 94811-9-91-1-320-9-8-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

OTI O INITIZ D	7-10 IIII E Bana Lage Oighai nadiatea i icia bacingtii											
Frequency	Level	Pol	15.E		Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters					
5467.980	65.9	V	68.3	-2.4	PK	298	2.13	POS; RB 1 MHz; VB: 3 MHz				
5469.340	65.9	Н	68.3	-2.4	PK	247	1.52	POS; RB 1 MHz; VB: 3 MHz				



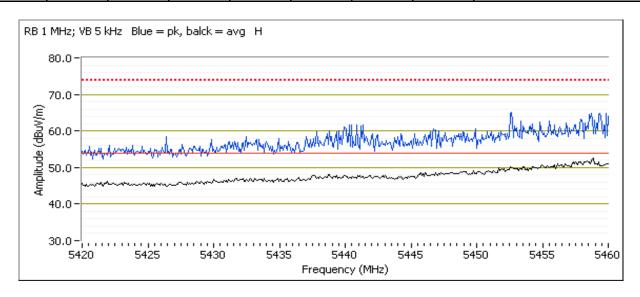


Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Channel: 122 - 5610MHz

Tx Chain: 3Tx
Mode: ac80
Data Rate: VHT0

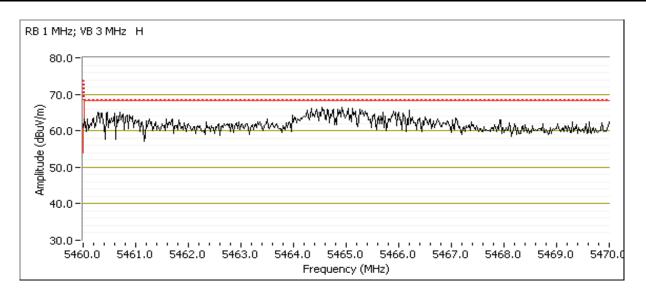
STOU WITE	5400 Miliz Balla Eage Olgrial Hadiated Field Otterigth											
Frequency	Level	Pol	FCC 15.209		Detector	Azimuth	Height	Comments				
MHz	dBμV/m	v/h	Limit Margin		Pk/QP/Avg	degrees	meters					
5458.960	52.2	V	54.0	-1.8	Avg	248	2.38	RB 1 MHz; VB: 5 kHz. Note 3				
5452.380	64.5	V	74.0	-9.5	PK	248	2.38	POS; RB 1 MHz; VB: 3 MHz				
5458.000	52.6	Н	54.0	-1.4	Avg	287	1.57	RB 1 MHz; VB: 5 kHz. Note 3				
5452.790	65.6	Н	74.0	-8.4	PK	287	1.57	POS; RB 1 MHz; VB: 3 MHz				





	1-91 - 90-91809 - 94811-9-91-1-320-9-8-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-9-		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

	The little Build Edge Cignal Madiated Field Caroligan										
Frequency	Level	Pol	15.E		Detector	Azimuth	Height	Comments			
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters				
5464.650	67.0	Н	68.3	-1.3	PK	241	1.55	POS; RB 1 MHz; VB: 3 MHz			
5464.670	66.1	V	68.3	-2.2	PK	277	2.43	POS; RB 1 MHz; VB: 3 MHz			





Client:	Ericsson Canada	Job Number:	JD99841								
Model	APINM210	T-Log Number:	T99885								
iviodei.	AFINIVIZ 10	Project Manager:	Christine Krebill								
Contact:	Nancy Langford	Project Coordinator:	-								
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A								

RSS-247 and FCC 15.247 (DTS) Radiated Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

Ambient Conditions:

Temperature: 22.4 °C Rel. Humidity: 37 %

Summary of Results - Device Operating in the 2400-2483.5 MHz Band

Run#	Mode	Channel	Target Power	Passing Power Setting	Test Performed	Limit	Result / Margin
1	b	6 - 2437MHz	23	q92	Radiated Emissions, 30 - 1000 MHz	FCC Part 15.209 / 15.247(c)	31.0 dBµV/m @ 46.56 MHz (-9.0 dB)
2	а	157 - 5785MHz	23	q92	Radiated Emissions, 30 - 1000 MHz	FCC Part 15.209 / 15.247(c)	29.9 dBµV/m @ 40.05 MHz (-10.1 dB)

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Sample Notes

Sample S/N: prototype

Driver: -

Antenna: Internal



	WE ENGINEER SOCIESS							
Client:	Ericsson Canada	Job Number:	JD99841					
Model:	ADINIM240	T-Log Number:	T99885					
	AFINIVIZ 10	Project Manager:	Christine Krebill					
Contact:	Nancy Langford	Project Coordinator:	-					
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A					

Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time Unless otherwise stated/noted, emission has duty cycle ≥ 98% and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold.

2.4GHz band reject filter used

Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
11b	5.5	99.4%	Yes	2.32	0	0	10
11a	6	99.0%	Yes	2.06	0	0	10

Measurement Specific Notes:

Note 1:	Emission in non-restricted band, but limit of 15.209 used.
Note 2:	Emission in non-restricted band, the limit was set 30dB below the level of the fundamental and measured in 100kHz.
Note 3:	Emission has a duty cycle ≥ 98%, average measurement performed: RBW=1MHz, VBW=3MHz, RMS, Power averaging, auto
Note 3.	sweep, trace average 100 traces
	Emission has constant duty cycle < 98%, average measurement performed: RBW=1MHz, VBW>1/T but not less than 10Hz,
Note 4:	peak detector, linear averaging, auto sweep, trace average 100 traces, measurement corrected by Linear voltage correction
	factor
Note 5:	Emission has constatnt duty cycle < 98%, average measurement performed: RBW=1MHz, VBW=3MHz, RMS, Power
Note 5.	averaging, auto sweep, trace average 100 traces, measurement corrected by Pwr correction factor
Note 6:	Emission has non constant duty cycle < 98%, average measurement performed: RBW=1MHz, VBW> 1/T, peak detector,
Note 6.	linear average mode, sweep time auto, max hold. Max hold for 50*(1/DC) traces
Note 7:	Emission has non constant duty cycle < 98%, average measurement performed: RBW=1MHz, VBW> 1/T, RMS detector,
Note 7:	sweep time auto, max hold. Max hold for 50*(1/DC) traces



Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

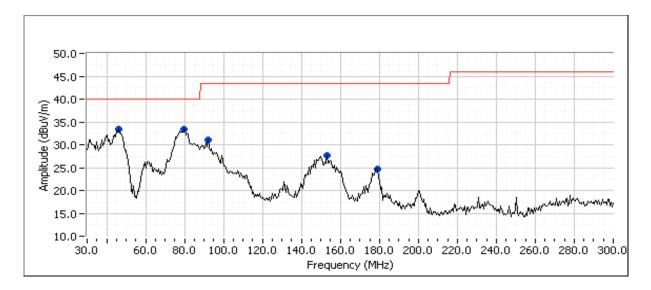
Run #1: Radiated Spurious Emissions, 30 - 1000 MHz. Operating Mode: 802.11b

Date of Test: 12/09/15 Test Location: FT Chamber #5
Test Engineer: Rafael Varelas EUT Voltage: 120V/60Hz

Run #1b: Center Channel

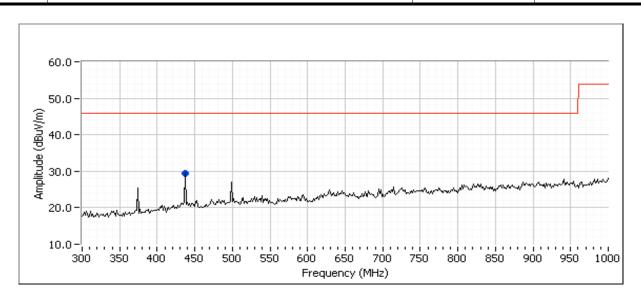
Channel: 6 Mode: b
Tx Chain: 3Tx Data Rate: 5.5

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
46.560	31.0	V	40.0	-9.0	QP	0	1.0	QP (1.00s)
78.303	30.2	V	40.0	-9.8	QP	189	1.1	QP (1.00s)
91.123	29.1	V	43.5	-14.4	QP	308	1.0	QP (1.00s)
437.500	29.5	V	46.0	-16.5	QP	360	1.0	QP (1.00s)
153.201	24.3	V	43.5	-19.2	QP	179	1.0	QP (1.00s)
178.827	21.0	V	43.5	-22.5	QP	224	1.0	QP (1.00s)





Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
woder:	AFINIMZ TO	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A





	1		
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
Model:	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #2: Radiated Spurious Emissions, 30-1000MHz. Operating Mode: 802.11a

Date of Test: 12/09/15

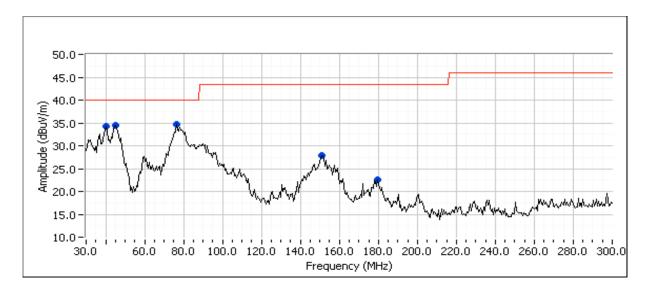
Test Location: FT Chamber #5
Test Engineer: Rafael Varelas

EUT Voltage: 120V/60Hz

Run #2a: Center Channel

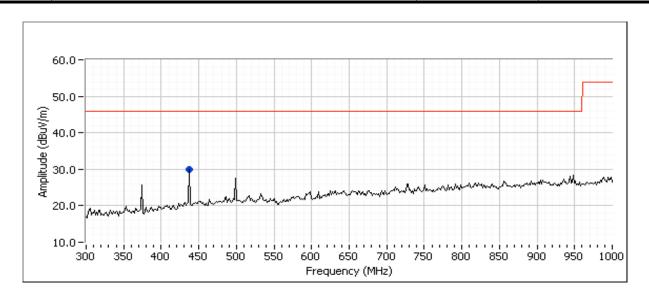
Channel: 157 Mode: a Tx Chain: 3Tx Data Rate: 6

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
40.050	29.9	V	40.0	-10.1	QP	353	1.0	QP (1.00s)
44.413	29.3	V	40.0	-10.7	QP	15	1.0	QP (1.00s)
75.764	28.9	V	40.0	-11.1	QP	267	1.0	QP (1.00s)
437.500	29.2	V	46.0	-16.8	QP	326	1.0	QP (1.00s)
150.757	24.3	V	43.5	-19.2	QP	145	1.0	QP (1.00s)
179.232	21.3	V	43.5	-22.2	QP	202	1.0	QP (1.00s)





Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
woder:	APINWZ TU	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A





Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINNIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

RSS-247 and FCC 15.247 (DTS) Radiated Spurious Emissions

Test Specific Details

Objective: The objective of this test session is to perform final qualification testing of the EUT with respect to the specification listed above.

General Test Configuration

The EUT and all local support equipment were located on the turntable for radiated spurious emissions testing.

For radiated emissions testing the measurement antenna was located 3 meters from the EUT, unless otherwise noted.

Ambient Conditions:

Temperature: 22.4 °C Rel. Humidity: 36 %

Summary of Results - Device Operating in the 2400-2483.5 MHz Band

Run#	Mode	Channel	Target Power	Power Setting	Test Performed	Limit	Result / Margin
	b	2412MHz	q92	q92	Radiated Emissions,	FCC Part 15.209 /	50.0 dBµV/m @ 4818.7
	а	5180MHz	q74	q74	1 - 40 GHz	15.247(c) / 15.407	MHz (-4.0 dB)
1	b	2462MHz	q92	q92	Radiated Emissions,	FCC Part 15.209 /	67.1 dBµV/m @ 5480.7
!	а	5320MHz	q72	q60	1 - 40 GHz	15.247(c) / 15.407	MHz (-1.2 dB)
	b	2437MHz	q92	q92	Radiated Emissions,	FCC Part 15.209 /	66.2 dBµV/m @ 5266.3
	а	5500MHz	q73	q73	1 - 40 GHz	15.247(c) / 15.407	MHz (-2.1 dB)

Modifications Made During Testing

No modifications were made to the EUT during testing

Deviations From The Standard

No deviations were made from the requirements of the standard.

Sample Notes

Sample S/N: prototype

Driver: -

Antenna: Internal



	WE ENGINEER SOCIESS							
Client:	Ericsson Canada	Job Number:	JD99841					
Model:	ADINIM240	T-Log Number:	T99885					
	AFINIVIZ 10	Project Manager:	Christine Krebill					
Contact:	Nancy Langford	Project Coordinator:	-					
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A					

Procedure Comments:

Measurements performed in accordance with FCC KDB 558074

Peak measurements performed with: RBW=1MHz, VBW=3MHz, peak detector, max hold, auto sweep time

Unless otherwise stated/noted, emission has duty cycle ≥ 98% and was measured using RBW=1MHz, VBW=10Hz, peak detector, linear average mode, auto sweep time, max hold.

2.4GHz and 5GHz band reject filters were used

Mode	Data Rate	Duty Cycle (x)	Constant DC?	T (ms)	Pwr Cor Factor*	Lin Volt Cor Factor**	Min VBW for FS (Hz)
11b	5.5	99.4%	Yes	2.32	0	0	10
11a	6	99.0%	Yes	2.06	0	0	10

Measurement Specific Notes:

Note 1:	Emission in non-restricted band, but limit of 15.209 used.
Note 2:	Emission in non-restricted band, the limit was set 30dB below the level of the fundamental and measured in 100kHz.
I Note 3:	Emission has a duty cycle ≥ 98%, average measurement performed: RBW=1MHz, VBW=3MHz, RMS, Power averaging, auto
	sweep, trace average 100 traces



Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIVIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #1: Radiated Spurious Emissions, 1,000 - 40000 MHz

Date of Test: 12/23/2015 Config. Used: 1
Test Engineer: Deniz Demirci Config Change: None
Test Location: FT Chamber #5 EUT Voltage: 120V/60Hz

Run #1a:

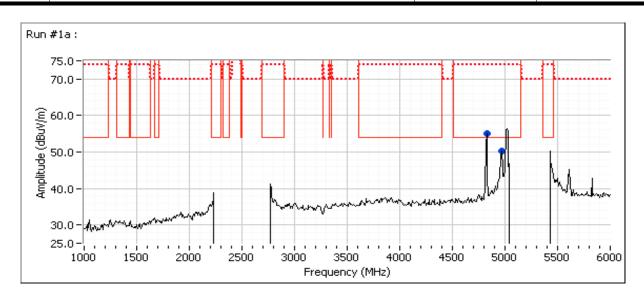
Channel: 1 Mode: b
Tx Chain: 3Tx Data Rate: 5.5

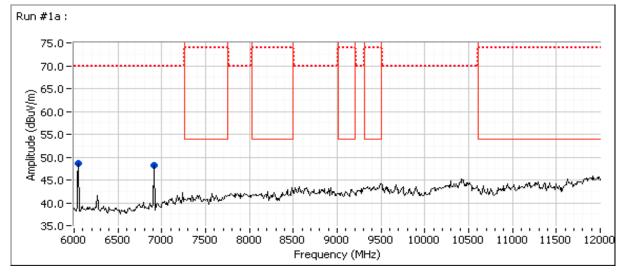
Channel: 36 Mode: a Tx Chain: 3Tx Data Rate: 6

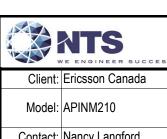
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4818.700	50.0	V	54.0	-4.0	AVG	33	2.0	RB 1 MHz;VB 10 Hz;Peak
4818.510	56.2	V	74.0	-17.8	PK	33	2.0	RB 1 MHz;VB 3 MHz;Peak
4960.870	48.7	Н	54.0	-5.3	AVG	224	1.6	RB 1 MHz;VB 10 Hz;Peak
4971.000	59.4	Н	74.0	-14.6	PK	224	1.6	RB 1 MHz;VB 3 MHz;Peak
6043.330	53.6	Н	68.3	-14.7	PK	240	1.8	RB 1 MHz;VB 3 MHz;Peak
6906.790	53.6	Н	68.3	-14.7	PK	253	1.4	RB 1 MHz;VB 3 MHz;Peak



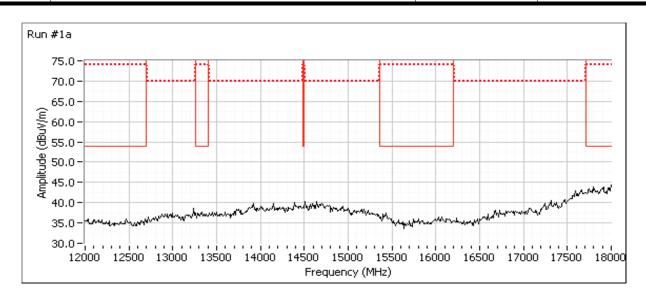
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINM2 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

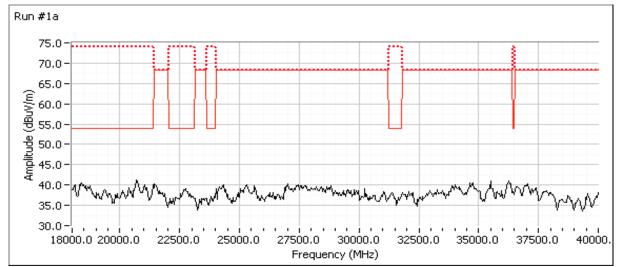






Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
iviodei:	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A







Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINNIZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #1c:

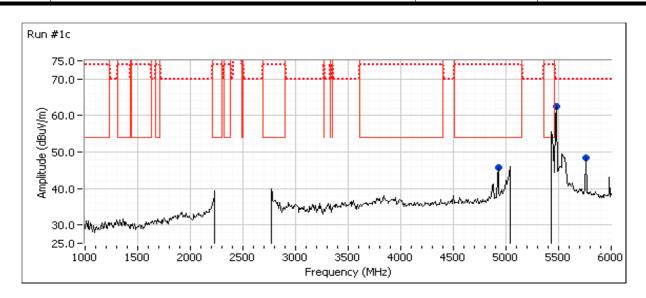
Channel: 11 Mode: b
Tx Chain: 3Tx Data Rate: 5.5

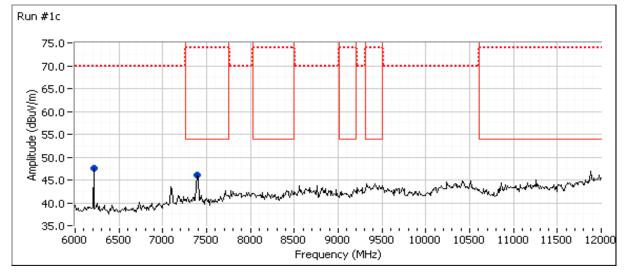
Channel: 64 Mode: a Tx Chain: 3Tx Data Rate: 6

Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters	
4929.300	42.3	Н	54.0	-11.7	AVG	117	1.4	RB 1 MHz;VB 10 Hz;Peak
4924.170	51.8	Н	74.0	-22.2	PK	117	1.4	RB 1 MHz;VB 3 MHz;Peak
5763.550	52.5	Н	68.3	-15.8	PK	215	1.9	RB 1 MHz;VB 3 MHz;Peak
5480.700	67.1	Н	68.3	-1.2	PK	226	1.6	RB 1 MHz;VB 3 MHz;Peak
6206.600	53.1	Н	68.3	-15.2	PK	236	1.9	RB 1 MHz;VB 3 MHz;Peak
7393.520	44.2	V	54.0	-9.8	AVG	61	1.0	RB 1 MHz;VB 10 Hz;Peak
7393.570	53.7	V	74.0	-20.3	PK	61	1.0	RB 1 MHz;VB 3 MHz;Peak



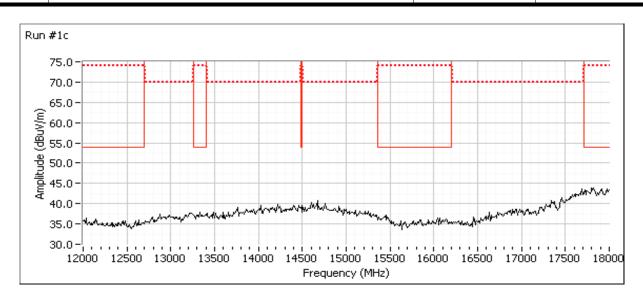
Client:	Ericsson Canada	Job Number:	JD99841
Model	APINM210	T-Log Number:	T99885
iviodei:	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

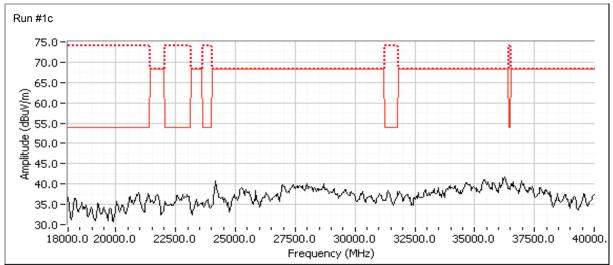






	Control of the Contro		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM240	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A







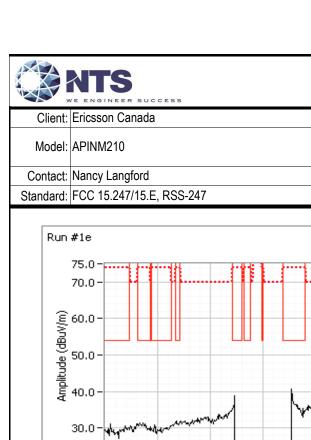
Client:	Ericsson Canada	Job Number:	JD99841
Model:	ADINIM210	T-Log Number:	T99885
	AFINIMZ 10	Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

Run #1e:

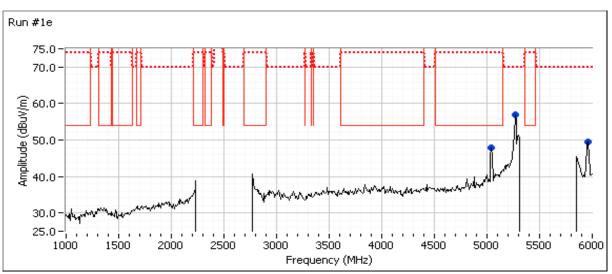
Channel: 6 Mode: b
Tx Chain: 3Tx Data Rate: 5.5

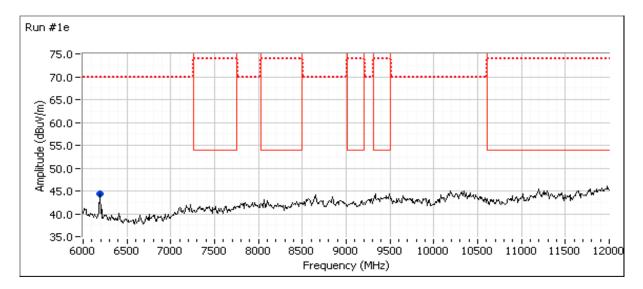
Channel: 100 Mode: a Tx Chain: 3Tx Data Rate: 6

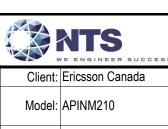
Frequency	Level	Pol	15.209	/ 15.247	Detector	Azimuth	Height	Comments	
MHz	dBμV/m	v/h	Limit	Margin	Pk/QP/Avg	degrees	meters		
5266.330	66.2	Н	68.3	-2.1	PK	228	1.5	RB 1 MHz;VB 3 MHz;Peak	
5042.370	48.1	Н	54.0	-5.9	AVG	213	1.9	RB 1 MHz;VB 10 Hz;Peak	
5960.520	56.7	Н	68.3	-11.6	PK	202	1.8	RB 1 MHz;VB 3 MHz;Peak	
5041.510	59.2	Н	74.0	-14.8	PK	213	1.9	RB 1 MHz;VB 3 MHz;Peak	
6187.230	52.2	V	68.3	-16.1	PK	269	1.8	RB 1 MHz;VB 3 MHz;Peak	



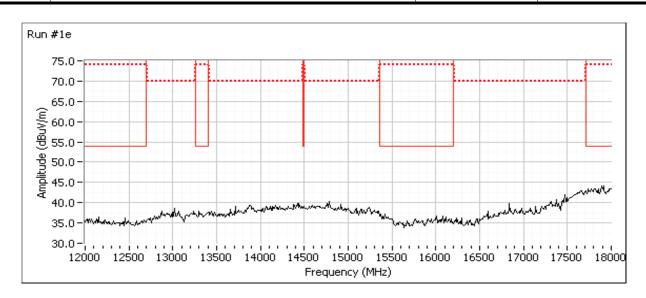
-	VE ENGINEER SUCCESS		
Client:	Ericsson Canada	Job Number:	JD99841
Model:	APINM210	T-Log Number:	T99885
		Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A

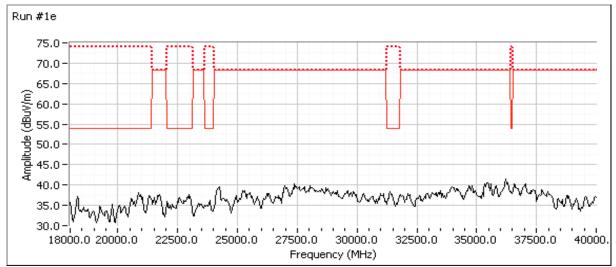






Client:	Ericsson Canada	Job Number:	JD99841
Model:	APINM210	T-Log Number:	T99885
		Project Manager:	Christine Krebill
Contact:	Nancy Langford	Project Coordinator:	-
Standard:	FCC 15.247/15.E, RSS-247	Class:	N/A





Project number JD99841 Reissue Date: August 31, 2016

Report Date: July 27, 2016 Re

End of Report

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