

MOBILE DEVICES BUSINESS

PRODUCT SAFETY AND COMPLIANCE **EMC LABORATORY**

EMC TEST REPORT - Addendum

Upe L. Surgaard

Test Report Number - 22585-1BT

Report Date - 2008-11-25

The test results contained herein relate only to the model(s) identified. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics.

Technician:

Name: Uffe Lund Svejgaard Test: 2008-11-12 to 2008-11-25

As the responsible EMC Engineer, I hereby declare that the model tested as specified in this report conforms to the requirements indicated.

Signature:

Name: Per K. Nielsen

Title: Principal Staff Engineer

Date: 2008-11-25

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FCC Registration Number: 863448 IC Registration Number: 109AP-1

ADR Testing Service location ADR AL ISO/IEC-17025:2005 accredited by UKAS

Test Report Number: 22585-1

FCD-1756, Rev 3

1 of 26

EXHIBIT 6A2

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Test Report Details

Tests Performed By: Motorola A/S

Product Safety and Compliance Group

Lindholm Brygge 35

9400 Nr.Sundby Fax (45) 7219-5002

Phone: (45) 7219-5000

Motorola PCS FRN: 0016105769 FCC Registration Number: 863448 IC Registration Number: 109AP-1

Tests Requested By: Motorola Inc.

Mobile Devices business 600 North US Hwy 45 Libertyville, IL 60048

Product Type: Cell phone with Bluetooth

Form factor: Clamshell

Signaling Capability: Triple band 900/1800/1900 GSM, Single band

2100 WCDMA, Bluetooth class 2.

Serial Numbers: TA78000BO

Battery type: BZ60 with model number SNN5789E.

FCC ID: IHDT6JC1

Project number: 22585-1

Testing Complete Date: 2008-11-25

Test Report Number: 22585-1

Applicable Standards

All tests and measurements indicated in this document were performed in accordance with the Code of Federal Regulations Title 47 Part 2, Sub-part J as well as the following parts:

Χ	Part 15 Subpart C - Intentional Radiators
	Part 22 Subpart H - Public Mobile Services
	Part 24 - Personal Communications Services
	Part 27 - Wireless Communications Service
	Part 90 - Private Land Mobile Radio Service

Applicable Standards: ANSI 63.4-2003, RSS-GEN, RSS-210 (Bluetooth).

DA 00-705, "Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems" published by the Federal Communications Commission was also used in the testing of this product.

The following tests were performed according to the regulations:

- The spurious radiated emission requirements of § 15.247(d) of CFR47 Part 15 2007, specifically" radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).
- Under this project only 30 to 1000MHz, 1 to 25GHz radiated emissions and radiated band-edge measurements were performed.
- For frequencies below 1 GHz a 100 kHz RBW (6 dB) is used and above 1 GHz a 1 MHz RBW (6 dB) is used.

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Summary of Testing

Test	Test Name	Pass/Fail
1 2	Field Strength of Spurious Emissions Band-edge Compliance of RF Radiated Emissions	Pass Pass
Test	Test Name	Results
1 2	Field Strength of Spurious Emissions Band-edge Compliance of RF Radiated Emissions	See plots See plots

The margin with respect to the limit is the minimum margin for all modes and bands. () indicates the margin at which the product exceeds the limit.

General and Special Conditions

The test sample was tested using a fully charged battery when applicable. Where a battery could not be used due to the need for a controlled variation of input voltage, an external power supply was utilized.

All testing was done in an indoor controlled environment with an average temperature of 20.8° C +- 1° C and relative humidity of 55.7% +-4% over the dates used for testing.

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Equipment and Cable Configurations

The test sample was tested in a stand-alone configuration that is representative of typical use.

Measuring Equipment and Calibration Information

Equipment related to the semi-anechoic chamber testing:

Equipment	Model/type	Serial	Operational	Date of	
		number	range	calibration	
EMI analyzers	ESIB 26	100179	20 Hz – 26.5 GHz	26.05.2008	
	ESU 40	100040	20 Hz – 40 GHz	07.02.2008	
Pre Amplifiers	EA PA 02:	800002	(1 26 GHz)	26.06.2007	
	(JCA12-300		1 GHz 2 GHz		
	JCA218-4003		2 GHz – 18 GHz		
	JCA48-300		4 GHz 8 GHz		
	JCA1826-431		18 GHz – 26 GHz		
	JCA1218-500)		12 GHz – 18 GHz		
	Sonoma 310N	185680	9 kHz – 1 GHz	15.05.2008	
	JCA218-4003	104	1 GHz – 18 GHz	19.05.2008	
Antenna amplifiers	AFS4-02001800-35-ULN (Mounted on EMCO 3115)	805815	2 GHz – 18 GHz	13.03.2008	
	JSA-18004000-30-5A	965195	18 GHz – 40 GHz	06.03.2008	
	(Mounted on EMCO 3116)				
	JCA 1840-400	101	18 – 40 GHz	06.03.2008	
	(Mounted on EMCO 3116)				
Radio com. Tester	CMU 200	112434	GSM 850/900/1800/1900 IS95, UMTS, CDMA, Bluetooth	20.02.2008	
High pass filter	K&L 3DH1-3000/T13000- 0/0 (Mounted on EMCO 3115)	8	3 GHz – 18 GHz	13.03.2008	
Attenuator	Weinschel 54A-3 (3dB) (Mounted on EMCO 3116)	T8929	DC – 40 GHz	06.03.2008	
	H&S 6603.19AA (3dB) (Mounted on EMCO 3115)	na	DC-18 GHz	13.03.2008	
Cable	C-ANT-FP1-10S (SK)	na	18 GHz – 40 GHz	06.03.2008	
	C-ANT-FP1-4S (SMA)	na	30 MHz –6 GHz 3 GHz – 18 GHz	19.03.2008, 13.03.2008,	
			18 GHz – 28 GHz	19.03.2008	
Filter	F-3S-2S (SK–Bypass)	na	30 MHz – 40 GHz	06.03.2008	

Equipment related to carrier max direction verification:

Equipment	Model/type	Serial number	Operational range	Date of calibration
Spectrum analysers	FSEA	845097/004	20 Hz – 3.5 GHz	23.04.07 (na)

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Radio com. Tester	CMU 200	834639/003	GSM	14.11.07
			850/900/1800/1900	
			IS95,	
			UMTS, Bluetooth	

The antennas used in the various tests are listed in the below table. All the log-periodic antennas are used as communication and link establishment antennas for (GSM, UMTS, CDMA, FM and/or Bluetooth).

Antenna	Туре	Serial number	Operational range	Date of calibration
Hybrid-log periodic	HLP 3003C	060300	30 MHz – 3 GHz	07.12.07
Log-periodic (link)	LPDA 8030	090200	800 MHz – 3 GHz	(na)
Log-periodic (link)	LPDA 8030	090100	800 MHz – 3 GHz	(na)
Log-periodic (link)	PLP 3003	021701	300 MHz – 3 GHz	(na)
Horn (link)	AT4002A	28548	800 MHz – 5 GHz	(na)
Horn (link)	AT4002A	28547	800 MHz – 5 GHz	(na)
Double ridged horn (w. 3 GHz HP-filter + 1x 2-18 GHz pre- amp+1x 3dB attenuator.)	EMCO 3115	71502	1 GHz – 18 GHz	21.05.08
Double rigid horn (w. 2x 18-40 GHz pre-amp + 1x 3dB attenuator.)	EMCO 3116	2637	18 GHz – 40 GHz	20.12.07

All equipment is on a one-year calibration cycle except for link antennas.

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Description of Bluetooth (BT) Transmitter

The 22585-1 cell phone sample offers Bluetooth as a feature. The Bluetooth spread-spectrum, frequency hopping transceiver is designed to operate between 2400 and 2483 MHz. The Bluetooth antenna is mounted on the PCB inside of the EUT. The antenna installation is permanent. For a more thorough description of the functionality please refer to Exhibit 12 of this package.

As a Bluetooth transmitter, it is designed operate with other Bluetooth devices as defined by the industrial standard. In this application, the test sample is battery-operated.

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Measurement Procedures and Data

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR Part 2.1053, 15.247(d), 15.249

Measurement Procedure

The test sample is placed inside the semi-anechoic chamber on a polystyrene table at the turntable center. For each spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters and the turntable is rotated 360 degrees to obtain a maximum reading on the spectrum analyzer. This is repeated for both horizontal and vertical polarizations of the receive antenna.

Field Strength (dB μ V/m) = EMI Receiver Level (dB μ V) + Cable Loss (dB) - Amplifier Gain (dB) + Filter loss (dB) + Antenna Correction Factor (3/m)

A fully charged battery was used for the supply voltage.

The test sample was operated during the measurements under the following conditions:

- Tests were performed at low, mid and high channels.
- Tests were performed in both horizontal and vertical polarity.
- Investigation of maximum radiation orientation and position of the product sample to determine test orientations angles.
 - Tests were performed with the sample orientated along X, Y and Z orthogonal axis based on findings.
 - Tests were performed with the test sample placed in worst case position either open or closed based on form factor. Verification tests were performed for the other position.

Measurement Results

For peak emissions detected above 1 GHz, only those emissions that are higher than the AVG limit line plus 8 dB are selected for final emission analysis.

Attached results:

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Maximum radiating position and orientation

The test sample was placed on top of a none-conductive pedestal with clamshell open and a Bluetooth link towards the communication test set was established. The test sample was scanned with a log-periodic antenna connected to a spectrum analyzer over the whole sphere and the maximum radiation orientation was determined to be the X orientation in horizontal polarity.

With the test sample clamshell closed it was determined that the open position caused maximum radiation in the Bluetooth band.

A check of carrier on the Bluetooth center channel 39 was performed to determine the expected maximum radiation of any Bluetooth harmonics for the test sample with Clamshell open and placed in orientation X.

Open:

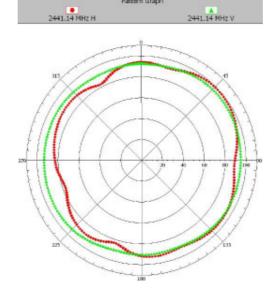
Title: FCC 15.247(d)

12-11-2008 12:39:02
File: Eden MS500W 22585 (5.31)(ESU) FCC15.247 BT2400 Tch-mid_Y 2008-11-12 Carrier -PK Sequence: Final Measurements
Operator: ADR AAL EMC TL1, usv001
EUT Type: Eden MS500W, FCC ID: IHDT6JC1, ESN: TA78000BO
EUT Condition: Board Rev: P2. open
Comments: FCC 15.247(c)(1) Bluetooth (BT) emission in TCH mode.
BT ch. 39 (2441 MHz) up/do in test mode. Orientation Y=V
HLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

Eden MS500W 22585 - Table

Freq	Freq (Max)	(PEAK) EMI	(2) Limit	(PEAK) Margin Lim2	Ttbl Agl	Pol	Preamp
(MHz)	(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(deg)		(dB)
2441.00	2441.14	98.87	134.00	-35.13	47.30	Н	30.54
2441.00	2441.14	96.04	134,00	-37.96	49,60	V	30,54

Eden MS500W 22585



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The Bluetooth radiated TX power is measured to be 1.47 dBm on channel 39 with RBW = 1 MHz (6 dB).

Title: FCC 15,247id)
File: Eden M S600W 25585 (5.31)(ESU) FCC15,247 BT2400 Toh-low_Y 2008-11-12-3.set

Construct ACM AAL EMC TL1_Lay/COT
Destruct ACM AAL EMC TL1_Lay

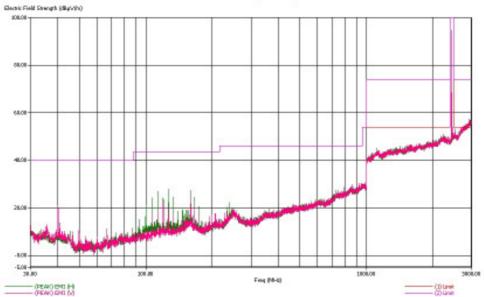
30-3000 MHz, Low Channel, Dual Polarization, Y

Test Report Number: 22585-1

Title: FOC 15.247(d)
File: Eden M \$500W 22585 (5.31)(E5U) FCC15.347 BT2400 Tch-mid_Y 2008-11-12-3.aet
Oberator: ADP. AAL EMC TL1.09/001
BUT Type: Eden M \$500W, FCC (6: HDT6JC1, ESN: TA78000BO
BUT Condition: Board Rev. P2. open
Comments: FCC 15.247(d) Blueboth (BT) emission in TCH mode.
BT ch. 39 (2441 MHz) ubdo in test mode. Overtation in YeV
HLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

12-11-2008 15:04:42 Sequence: Preliminary Scan



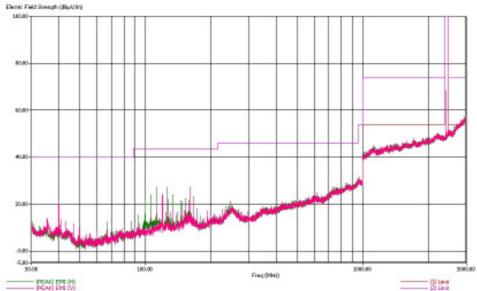


30-3000 MHz, Middle Channel, Dual Polarization, Y

Title: FCC 15.247(d)
Fits: Eden MS\$00W 22585 (5.31 XESU) FCC 15.247 BT2400 Tch-hgh_Y 2008-11-12 -3.set
Oberator, ADR AAL EMC TL1.usv001
EUT Tvne: Eden MS\$00W, FCC ID: IHDTBJC1, ESN: TA78000BO
EUT Condition: Board Rev. P2. ocen
Comments: FCC 15.247(d) Blustooth (BT) emission in TCH mode.
BT on, 78 (2480 MHz) uddo in test mode. Orientation Y=V
HLP 3003C antenna (30MHz - 3 GHz). Peak detector used.

12-11-2008 15:24:58 Sequence: Preiminary Scan





30-3000 MHz, Low Channel, Dual Polarization, Y

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EXHIBIT 6A2

Title: FCC 15:247(d)

Fite: Eden MSS00W 22585 (5.31¥ESLI) FCC15:247 BT2488 Tch-low_X 2888-11-12-3-18.set

Oberator: ADR: AAL, EMC TL1, usv681

EUT Type: Eden MSS00W: FCC ID: IHDTBJC1, ESN: TA7880080

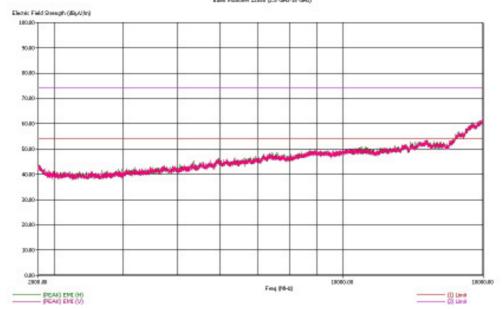
EUT Consider: Board Rev. P2, open

Comments: FCC 15:247(d) Bluetooth (BT) emission in TCH mode.

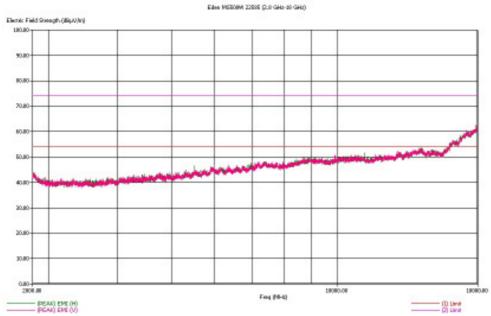
BT 01. 0 (2402 MHz) uotio in test mode. Orientation X=V

EM CO 3115 entenns (3GHz - 18GHz). Peak detector used.

Edea MISSORM 22505 (2:0 GHz-20 GHz)



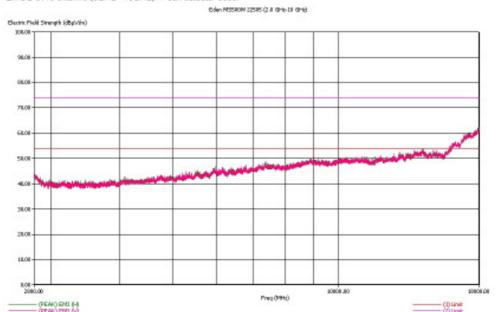
3-18 GHz Low Channel Dual Polarization X



3-18 GHz Low Channel Dual Polarization Y

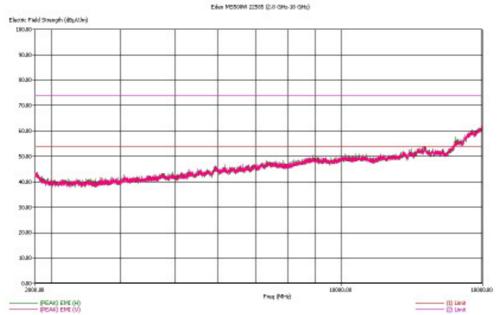
13 of 26 Test Report Number: 22585-1 **EXHIBIT 6A2**

Title: PCC 15.247/d)
File: Eden M \$500W 22585 (5.31)(ESU) FCC15.247 BT2400 Toh-low_Z 2008-11-12-3-18.set
Obserator: ADM: AAL EMC TL1. usw001
EUT Tybe: Eden M \$500W FCC ID: IHDT6JC1, ESN: TA78000BO
EUT Condition: Board Res: P2. open
Commerts: FCC 15.247/d) Biuetooth (BT) emission in TOH mode.
BT ch. 0.74812 MH2/usd/do in test mode. Crientation Z=V
EMCO 3115 antenna (3GHz - 19GHz). Peak detector used.



3-18 GHz Low Channel Dual Polarization Z

TBs: FCC 15,247(d) 13-11-2008 08:35:35
File: Eden MS800W 22885 (5.311/ESU) FCC 15.247 BT2400 Tch-mid_X 2008-11-12-3-18.set Sequence: Preliminary Scan Courston ADR: AAL BMC TL1, usv001
EUT Tyce: Eden MS500W FCC ID: IHDT6JC1, ESN: TA78000B0
EUT Condition: Board Fee: P2 open
Comments: FCC 15.247(d) Bluetooth (BT) emission in TCH mode.
BT ch. 38 (2441 MHz) uside in bast mode. Orientation X=V
EM CO 3115 antenna (3GHz - 18GHz). Peak detector used.



3-18 GHz Middle Channel Dual Polarization X

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Title: FCC 15.247(d)

File: Eden M 5500W 22585 iS.311(ESU) FCC15.247 BT2400 Tch-mid_Y 2008-11-12-3-16.set

Ocerator: ADR AAL EMC TL1. (6x/001

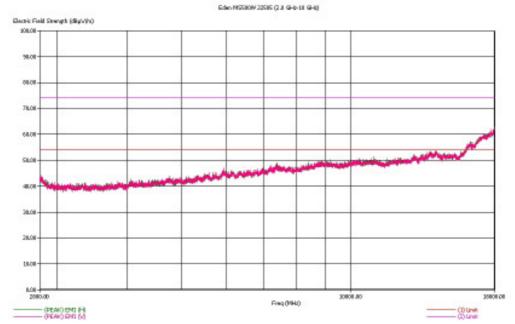
ELIT Type: Eden M 5500W, FCC ID: IHDT6_C1, ESN: TA78000BO

EUT Condition: Social Rev. P2. open

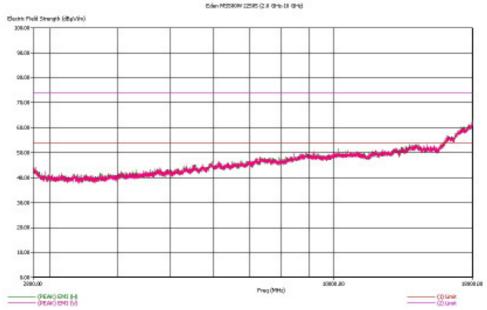
Commercial FCC 15.247(d) Bluebooth (BT) emission in TCH mode.

BT ch. 39 (2441 MHz) (ablo in test mode. Orientation Y=V

EMCO 3115 antenna (3GHz - 16GHz). Peak detector used.



3-18 GHz Middle Channel Dual Polarization Y



3-18 GHz Middle Channel Dual Polarization Z

Test Report Number: 22585-1 15 of 26 EXHIBIT 6A2

Title: PCC 15;347(d)
File: Eden MISSOVW 22585 (5.31 XESU) FCC 15;247 BT2400 Tch-hgh_X 2008-11-12-3-18.set

Sequence: Preliminary Scan
Courrett ADR AAL EM C TL1, usv001
EUT Tore: Eden MISSOVW FCC Ib: IHDTBUC1, ESN: TA78000BO
EUT Condition: Board Fev: P2, open
Comments: FCC 15;247(d) Bluetooth BC) emission in TCH mode.
BT ch. 78 (2450 M Hz) upido in bast mode. Orientation New
EM CO 3115 enterina (3GHz - 18GHz). Peak detector used.

Elea MESON 2355 (35 GHs-35 GHz)

13-11-2005 09:02-229
Sequence: Preliminary Scan
Sequence: Prelimina

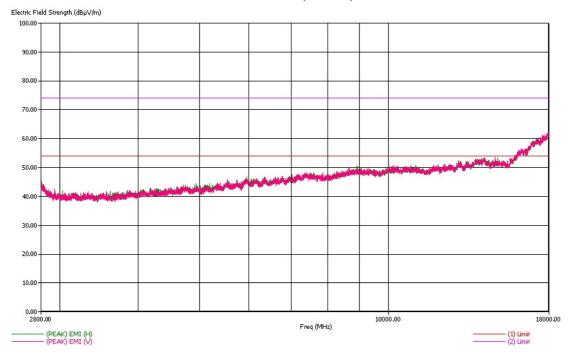
3-18 GHz High Channel Dual Polarization X

Free (1916)

Test Report Number: 22585-1 16 of 26 EXHIBIT 6A2

FCC ID: IHDT6JC1

Title: FCC 15.247(d)
File: Eden MS500W 22585 (5.31)(ESU) FCC15.247 BT2400 Tch-hgh_Y 2008-11-12 -3-18.set
Operator: ADR AAL EMC TL1. usv001
EUT Tvoe: Eden MS500W. FCC ID: IHDT6JC1, ESN: TA78000BO
EUT Condition: Board Rev: P2. open
Comments: FCC 15.247(d) Bluetooth (BT) emission in TCH mode.
BT ch. 78 (2480 MHz) up/do in test mode. Orientation Y=V
EMCO 3115 antenna (3GHz - 18GHz). Peak detector used. 12-11-2008 15:42:56 Sequence: Preliminary Scan



Title: FCC 15.247(d) 12-11-2008 15:56:44
File: Eden MS500W 22585 (5.31)(ESU) FCC15.247 BT2400 Tch-hgh_Y 2008-11-12 -AV -17.975Sequence: Final Measurements
Operator: ADR AAL EMC TL1, usv001 EUT Type: Eden MS500W. FCC ID: IHDT6JC1, ESN: TA78000BO EUT Condition: Board Rev: P2. open

Comments: FCC 15.247(d) Bluetooth (BT) emission in TCH mode.

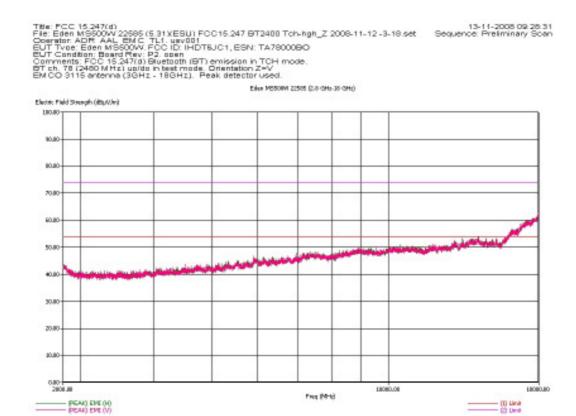
BT ch. 78 (2480 MHz) up/do in test mode. Orientation Y=V EMCO 3115 antenna (3GHz - 18GHz). AV detector used.

Eden MS500W 22858 - Table

Freq (MHz)	Freq (Max) (MHz)	(AVG) EMI (dΒμV/m)	(1) Limit (dBµV/m)	(AVG) Margin Lim1 (dB)	Ttbl Agl (deg)	Pol
17975.00	17972.09	49.39	54.00	-4.61	82.50	Н
17975.00	17971.54	49.38	54.00	-4.62	349.90	V

3-18 GHz High Channel Dual Polarization Y

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3-18 GHz High Channel Dual Polarization Z

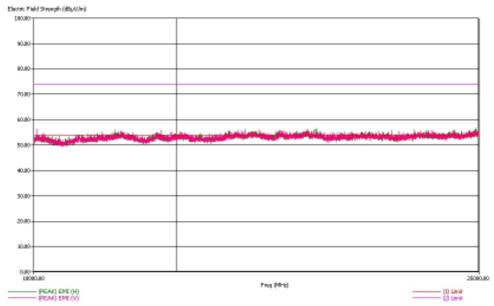
There were no discernible emissions above the noise floor for 18-25 GHz for Low, Mid and High Channels and all polarizations in Bluetooth band

Only one worst case plot for each test frequency are shown in the below plots in the range from $18~\mathrm{GHz} - 26~\mathrm{GHz}$.

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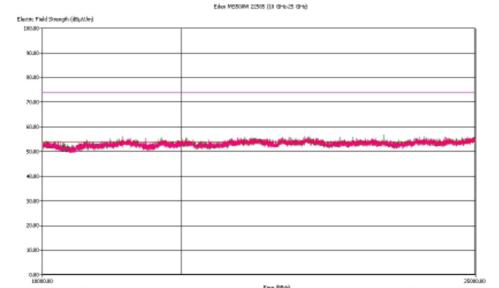
Title: FCC 15:247(d) 17-11-2005 10:31:47
File: Eden MS900W 22585 (5:31 XESU) FCC 15:247 BT2400 Tch-low_Y 2008-11-12-18-25:set Sequence: Preliminary Scan Courtent: ADR: AAL EMC TL1: usv001
EUT Tyoe: Eden MS900W, FCC ID: IHDT6JC1, ESN: TA78000B0
EUT Condition: Board Rev: P2: open Comments: FCC 15:247(d) Bluetooth (BT) emission in TCH mode.
BT ch. 0: 17-14-2005 10:31:47
Sequence: Preliminary Scan Courtends (BT) and Rev: P2: open Comments: FCC 15:247(d) Bluetooth (BT) emission in TCH mode.
BT ch. 0: 17-14-2005 10:31:47

Edus Missoum 22565 (EJI GHI-25 GHZ)



18-25 GHz Low Channel Dual Polarization Y

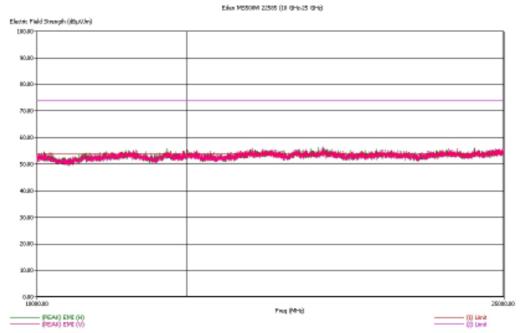
TBs: FCC 15.247(d) 17-11-2005 10:25:12
File: Eden MSS00W 22595 (5.31XESU) FCC15.247 BT2400 Tch-mid_Y 2008-11-12-18-25.set Sequence: Preliminary Scan Courston: ADR: AAL EMIC TL1, usv001
EUT Tvce: Eden MSS00W, FCC ID: IHDT6JC1, ESN: TA78000BO
EUT Condition: Board Rev: P2, osen
Comments: FCC 15.247(d) Bluetooth (BT) emission in TCH mode.
BT ch. 38 (2441 MHz) usd/or in beat mode. Orientation Y=V
EMICO 3116 antenna (18GHz - 25GHz). Peak detector used.



18-25 GHz Middle Channel Dual Polarization Y

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Title: FCC 15:247(d) 17:11-2008 10:38:13
File: Eden MSSOW 22585 (5:31XESU) FCC15:247 BT2400 Tch-hgh_Y 2008-11-12-18-25.set Sequence: Preliminary Scan Courter: ADR AAL EMC TL1. usv001
EUT Tvoe: Eden MSSOW. FCC ID: IHDT8JC1, ESN: TA78000BO
EUT Candidian: Board Rev: P2. osen Comments: FCC 15:247(d) Bluetostn (BT) emission in TCH mode. BT ch. 78 (2480 MHz) usride in best mode. Orientation Y=V
EM CO 3116 antenna (186Hz - 256Hz). Peak detector used.



18-25 GHz High Channel Dual Polarization Y

Test Report Number: 22585-1

BAND-EDGE COMPLIANCE OF RF RADIATED EMISSIONS

CFR Part 15.247

Measurement Procedure

The test sample is placed inside the semi-anechoic chamber on a polystyrene table at the turntable center. Test is repeated for both horizontal and vertical polarizations of the receive antenna.

Field Strength (dB μ V/m) = EMI Receiver Level (dB μ V) + Cable Loss (dB) + Filter Loss (dB) - Amplifier Gain (dB) + Antenna Correction Factor (3/m)

The test sample was operated in Bluetooth single channel test mode. A fully charged battery was used for the supply voltage.

Measurement Results

Comments:

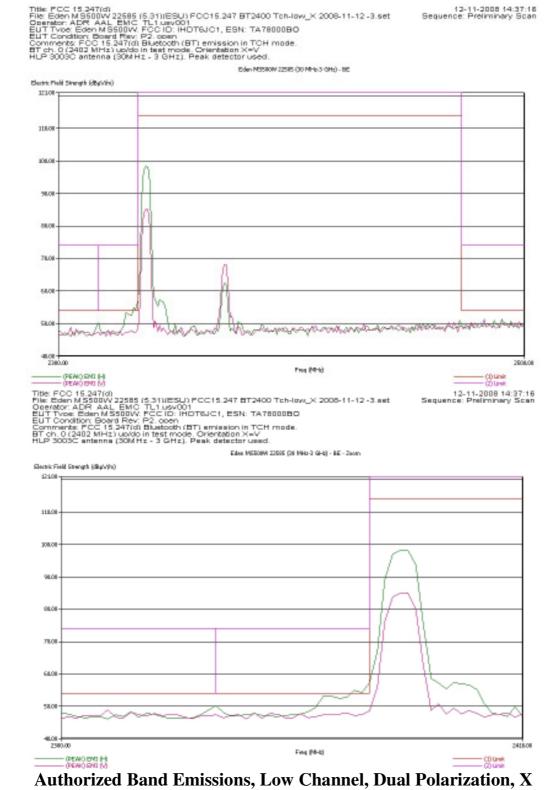
The band edge measurements crossing the corner for the low channel with respect to the average limit line is acceptable when applying the FCC rule specified in CFR 47 part 15.35(b) for the use of peak detector above 1 GHz.

The test was performed in 22.5 degree angular step size when the band edge crossing is measured to be +6 dB above the AVG limit line.

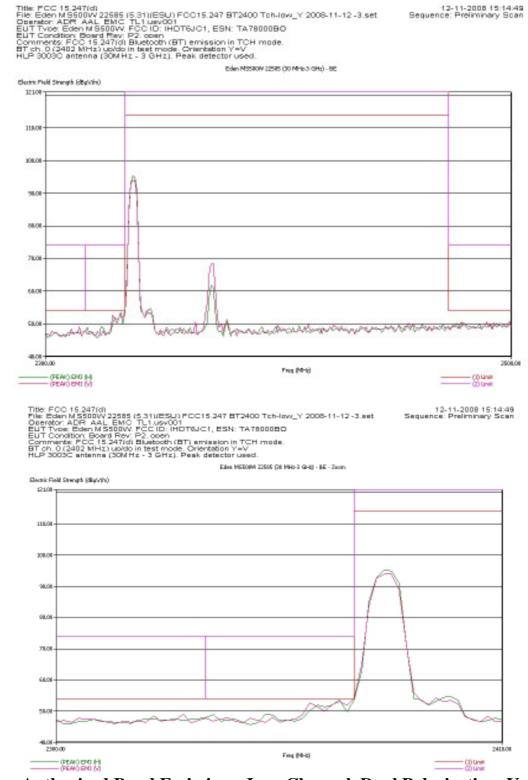
The peak detector limit line has been added to the graphical plots.

See Attached:

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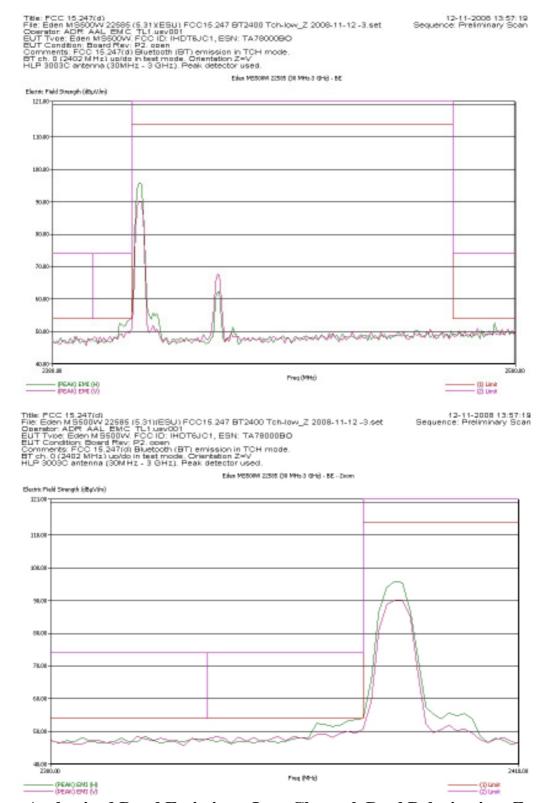


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Authorized Band Emissions, Low Channel, Dual Polarization, Y

Test Report Number: 22585-1

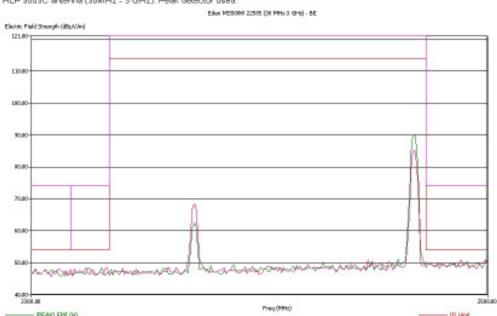


Authorized Band Emissions, Low Channel, Dual Polarization, Z

Test Report Number: 22585-1



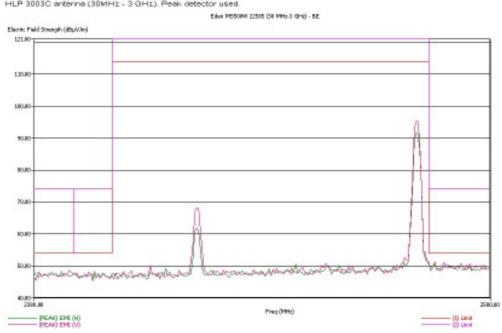
12-11-2005 14:25:12 Sequence: Preliminary Scan



Authorized Band Emissions High Channel Dual Polarization X

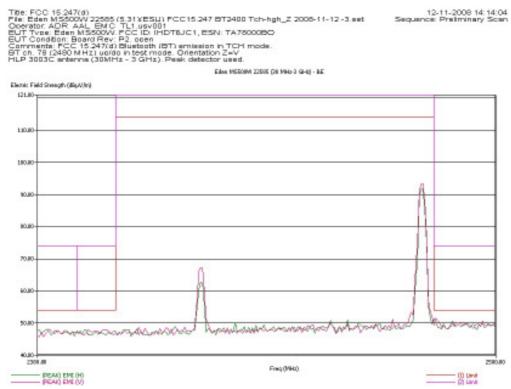
THE: FCC 15.247(d)
File: Eden MSSOWY 22595 (5.31 XESU) FCC 15.247 BT2400 Tch-hgh_Y 2008-11-12-3.set
Cosmator: ADR AAL EMC TL1.usv001
EUT Tvoe: Eden MSSOWY. FCC 1D: IHDT6JC1, ESN: TA79000B0
EUT Condition: Bload Rev: P2. iosen
Comments: FCC 15.247(d) Bluetooth (BT) emission in TCH mode.
BT ch. 78 (2450 MHz) uside in bast mode. Orientation Y=V
HLP 3003C enterine (30MHz - 3 GHz). Peak detector used.

12-11-2008 15:24:58 quence: Preliminary Scan



Authorized Band Emissions High Channel Dual Polarization Y

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Authorized Band Emissions High Channel Dual Polarization Z

PICTURES

The pictures related to the above test results are placed in the associated report denoted as EXHIBIT 7A2.

End of Test Report

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