



MOTOROLA

PERSONAL COMMUNICATIONS SECTOR

**PRODUCT SAFETY AND COMPLIANCE
EMC LABORATORY**

EMC TEST REPORT - Addendum

Test Report Number – 13686-1BT

Report Date – April 7, 2004

Rev. 1 - May 4, 2004

Pages 23--30 corrected to identify fundamental freq.

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.

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

A handwritten signature in purple ink that reads "Michael E. Hill".

Signature:

Name: Michael E. Hill

Title: Senior Electrical Engineer

Date :May 4, 2004

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THIS REPORT MUST NOT BE USED TO CLAIM PRODUCT ENDORSEMENT BY A2LA OR ANY AGENCY OF THE U.S. GOVERNMENT.

A2LA Certificate Number: 1846-01



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Test Report Details

Tests Performed By: Motorola Personal Communications Sector
Product Safety and Compliance Group
600 North US Hwy 45
Libertyville, IL 60048
PH (847) 523-6167 Fax (847) 523-4538
Motorola PCS FRN: 0004321311
FCC Registration Number: 316588
Industry Canada Number: IC3908

Radiated Emissions
Performed By: Underwriters Laboratories
International EMC Services
333 Pfingsten RD
Northbrook, IL 60062
Contact: Lubomir Madjarov
(Tel) 847/664-3957
(Fax) 847/313-3957

Tests Requested By: Motorola Inc.
Personal Communications Sector
600 North US Hwy 45
Libertyville, IL 60048

Product Type: Cellular Phone

Signaling Capability: GSM 1900, Bluetooth

Model Number: A845

Serial Numbers: L850440069, L850440085, L850440072

Testing Complete Date: March 16, 2004

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:

- ☒ Part 15 Subpart C – Intentional Radiators
- ☐ Part 22 Subpart H - Public Mobile Services
- ☐ Part 24 - Personal Communications Services
- ☐ Part 90 - Private Land Mobile Radio Service

Applicable Standards: TIA EIA 137-A, TIA EIA 98-C, ANSI 63.4 2001, RSS-118 (AMPS), RSS-128 (TDMA), RSS-129 (CDMA), RSS-133 (PCS)

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.

Summary of Testing

Test	Test Name	Pass/Fail
1	Carrier Frequency Separation	Pass
2	Number of Hopping Frequencies	Pass
3	Time of Occupancy (Dwell Time)	Pass
4	20 dB Bandwidth	Pass
5	Spurious RF Conducted Emissions	Pass
6	Field Strength of Spurious Emissions	Pass
7	Max Power	N/A
8	Band Edges	See plots
9	Conducted Spurious Emissions	Pass

Test	Test Name	Results
1	Carrier Frequency Separation	1.001MHz
2	Number of Hopping	79
3	Time of Occupancy (Dwell Time)	121.2 μ s
4	20 dB Bandwidth	795 KHz
5	Spurious RF Conducted Emissions	See plots
6	Field Strength of Spurious Emissions	See plots
7	Max Power	0.204 dBm
8	Band Edges	See plots
9	Conducted Spurious Emissions	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 EUT 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 22° C and relative humidity of 50%.

Equipment and Cable Configurations

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

Measuring Equipment and Calibration Information

Manufacturer Name	Item Name Description	Model #	Serial Number	Calibration Due Date
HP	GSM Test Set	8922M	3639U01033	05/04/2004
HP	DCS/PCS MS Test Set	83220E	3524U01522	05/22/2004
Agilent	Power Supply	66311B	US38447252	10/24/2004
HP	EMC Analyzer	E7405	US40240219	04/04/2004
Weinschel	10dB Attenuator	AS-6	6675	10/14/2004
Gigatronics	Universal Power Meter	8651A	8650508	10/02/2004
KWM	1900MHz HP Filter	HPF-L-14768	8427-01	10/02/2004
KWM	800MHz HP Filter	HPF-L-14767	8427-02	08/15/2004
Thermotron	Environmental Chamber	S-4	31580	01/05/2005
Rohde Schwarz	EMI Test Receiver	ESI26	838786/010	04/29/2004
A.H. System	Horn Antenna	SAS200/571	365	12/17/2004
A.H. System	Horn Antenna	SAS200/571	265	04/29/2004
ETS	Log-Periodic Antenna	3148	1189	04/29/2004
ETS	Biconical Antenna	3110B	3369	04/29/2004
UL Test Equipment				
Hewlett Packard	QP Adapter	85650A	2811A01069	1/08/2005
Hewlett Packard	S/A Display	8566B	2542A12974	1/08/2005
Hewlett Packard	S/A	8566B	2637A03376	1/08/2005
Hewlett Packard	RF Preselector	85685A	2810A00692	1/08/2005
Rohde & Schwarz	S/A	FSEK20	DE2525315	1/09/2005
EMCO	Horn Antenna 1-18GHz	3115	2638	7/10/2004
EMCO	Horn Antenna 18-26.5GHz	3160-09	9904-1165	N/A*
Chase	Bi-Con Antenna 30-300MHz	VBA6106A	1246	6/23/2004
Chase	Log-Periodic Antenna	UPA6108	1120	6/23/2004

All equipment is on a one-year calibration cycle.

Description of Bluetooth Transmitter

The A845 cell phone 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 industrial standard. In this application, the device is battery-operated. Therefore conducted AC line emissions testing as described in CFR47, Part 15.207 was not necessary.

Measurement Procedures and Data

CARRIER FREQUENCY SEPARATION

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

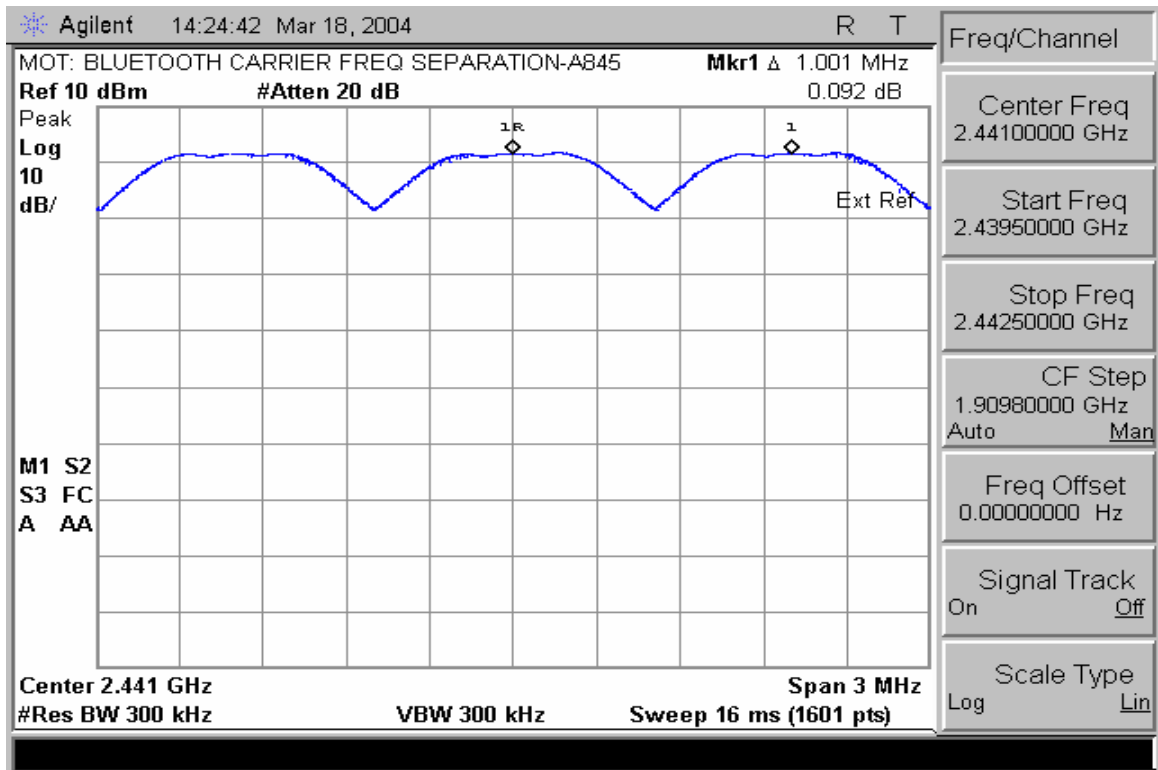
The Bluetooth transmitter of the A845 had its hopping function enabled. The following spectrum analyzer settings were used:

1. Span = wide enough to capture the peaks of two adjacent channels
2. Resolution (or IF) Bandwidth (RBW) $\geq$ 1% of the span
3. Video (or Average) Bandwidth (VBW) $\geq$ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The marker-delta function was used to determine the separation between the peaks of the adjacent channels.

Measurement Results

See attached.



Carrier Frequency Separation

NUMBER OF HOPPING FREQUENCIES

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

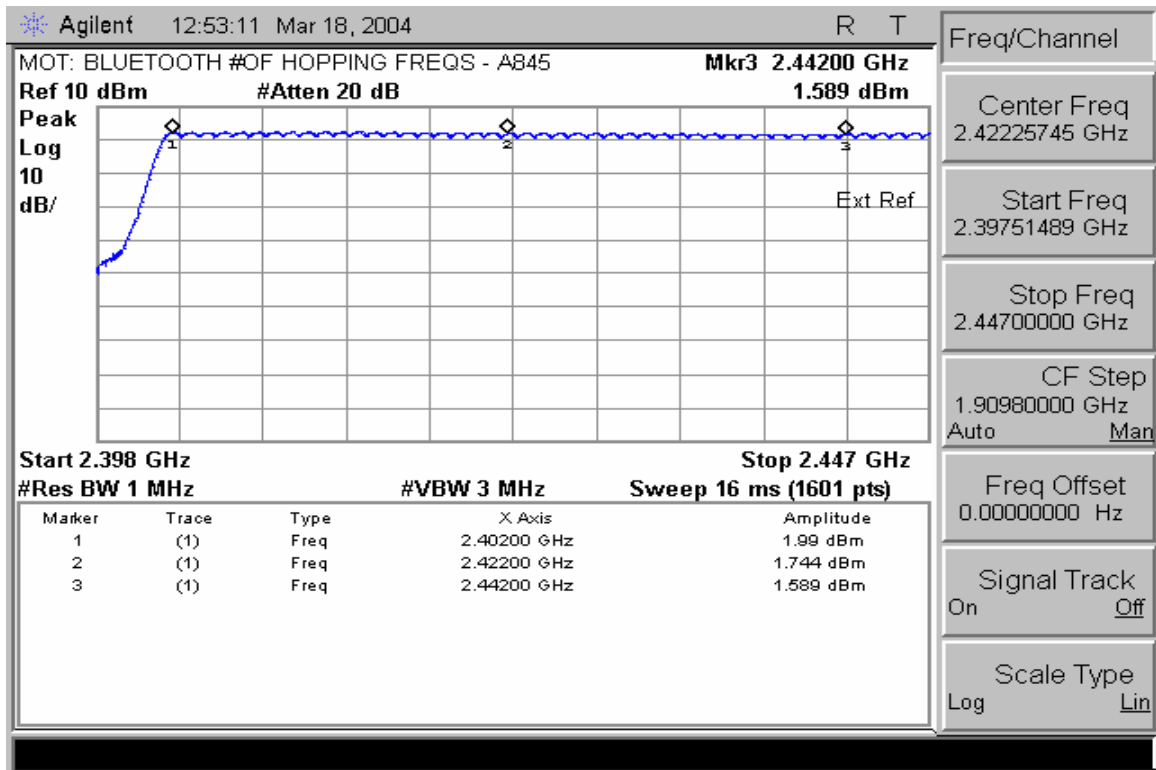
The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

1. Span = the frequency band of operation
2. RBW $\geq$ 1% of the span
3. VBW $\geq$ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

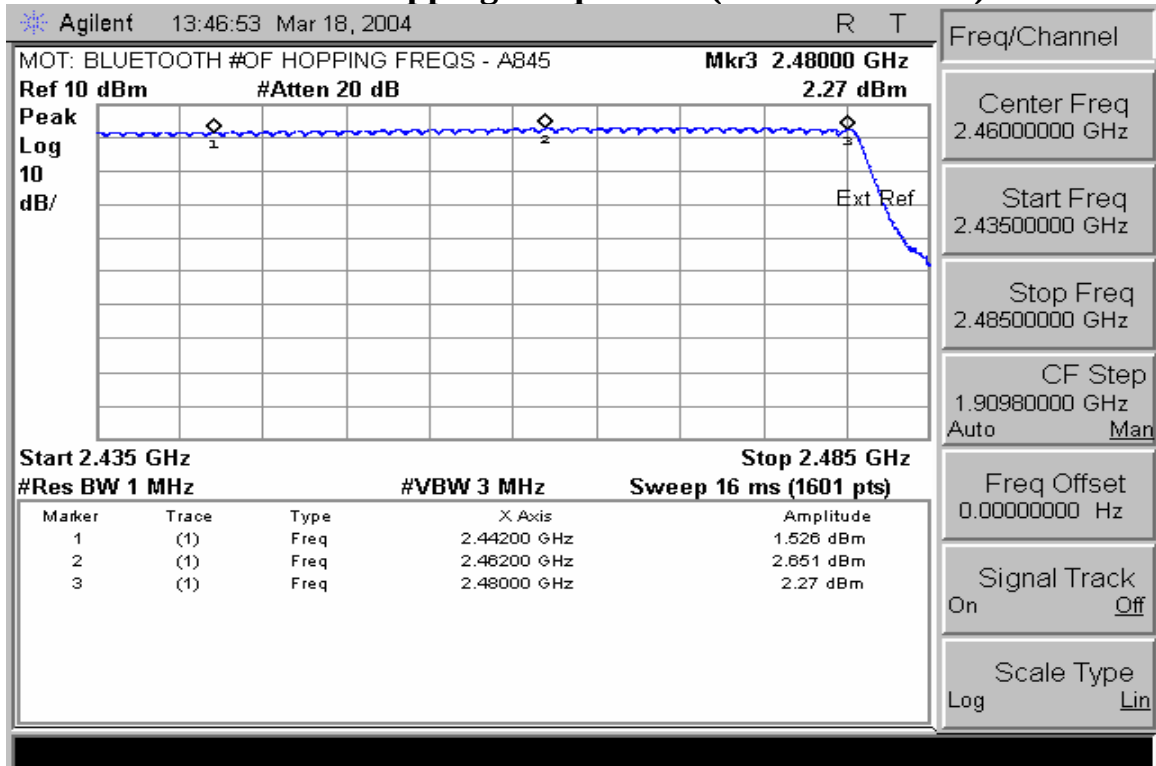
The trace was allowed to stabilize.

Measurement Results

See attached.



Number of Hopping Frequencies (Channels 2 – 42)



Number of Hopping Frequencies (Channels 42 – 80)

TIME OF OCCUPANCY (DWELL TIME)

CFR47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

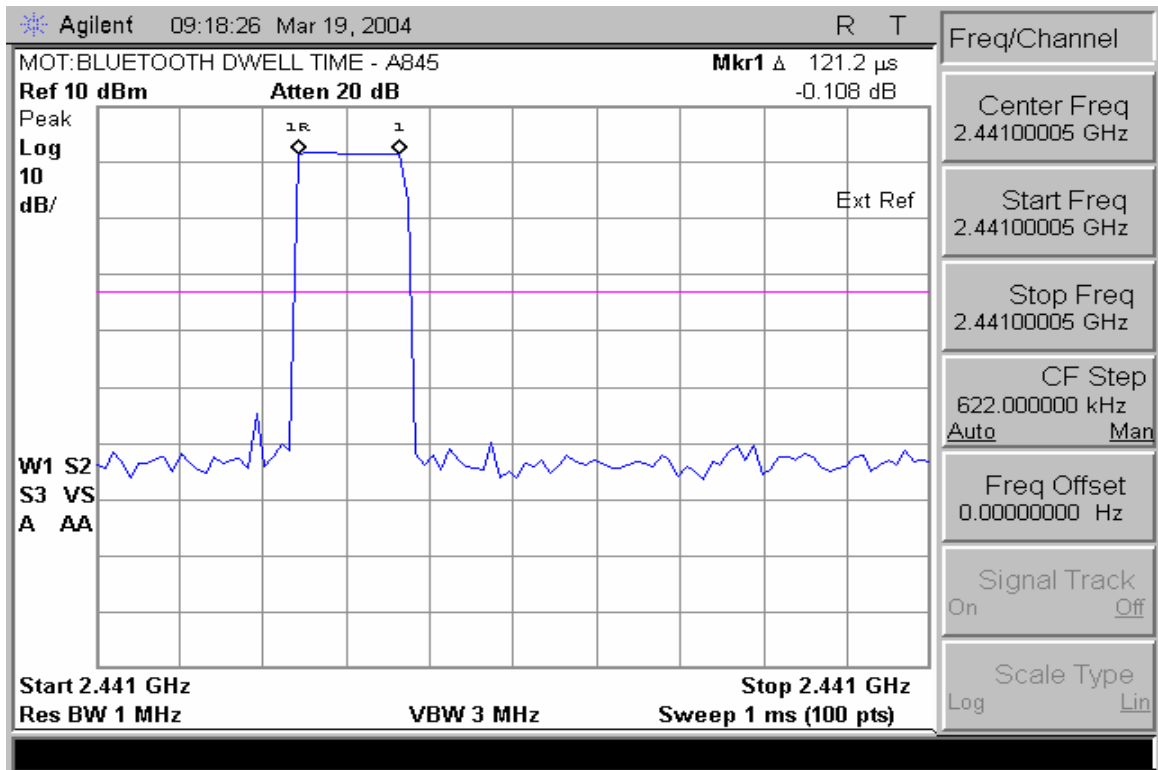
The Bluetooth hopping function of the EUT was enabled. The following spectrum analyzer settings were used:

1. Span = zero span, centered on a hopping channel
2. RBW = 1 MHz
3. VBW $\geq$ RBW
4. Sweep = as necessary to capture the entire dwell time per hopping channel
5. Detector function = peak
6. Trace = max hold

The marker-delta function was used to determine the dwell time.

Measurement Results

Attached



Dwell Time

20dB Bandwidth

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

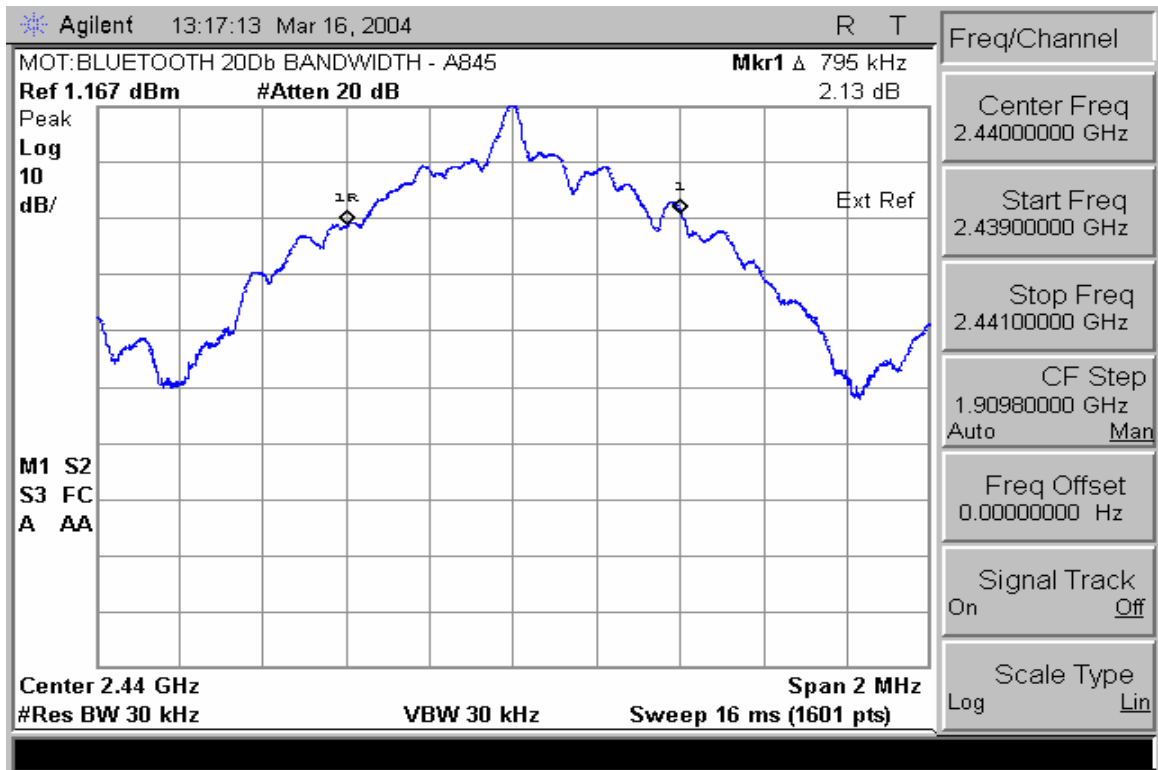
The Bluetooth frequency hopping function of the EUT was enabled. The spectrum analyzer used the following settings:

1. Span = approx. 2 to 3 times the 20dB bandwidth, centered on a hopping frequency
2. RBW $\geq$ 1% of the 20dB span
3. VBW $\geq$ RBW
4. Sweep = auto
5. Detector function = peak
6. Trace = max hold

The trace was allowed to stabilize. The EUT was transmitting at its maximum data rate. The marker-to-peak function was used to set the marker to the peak of the emission. The marker-delta function was used to measure 20dB down one side of the emission. The marker-delta function and marker was moved to the other side of the emission until it was even with the reference marker. The marker-delta reading at this point was the 20dB bandwidth of the emission.

Measurement Results

Attached



20 dB Bandwidth

FIELD STRENGTH OF SPURIOUS EMISSIONS

CFR Part 2.1053, 15.249

Measurement Procedure

The Equipment-Under-Test is placed inside the semi-anechoic chamber on a wooden 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.

The Equipment-Under-Test is then replaced with a substitution antenna fed by a signal generator. With the signal generator tuned to a particular spurious frequency, the antenna mast is raised and lowered from 1 to 4 meters to obtain a maximum reading at the spectrum analyzer. The output of the signal generator is then adjusted until a reading identical to that obtained with the actual transmitter is achieved.

The power in dBm of each spurious emission is calculated by correcting the signal generator level for cable loss and gain of the substitution antenna referenced to a dipole.

The field strength of each radiated emission is calculated by correcting the EMI receiver level for cable loss, amplifier gain, and antenna correction factors.

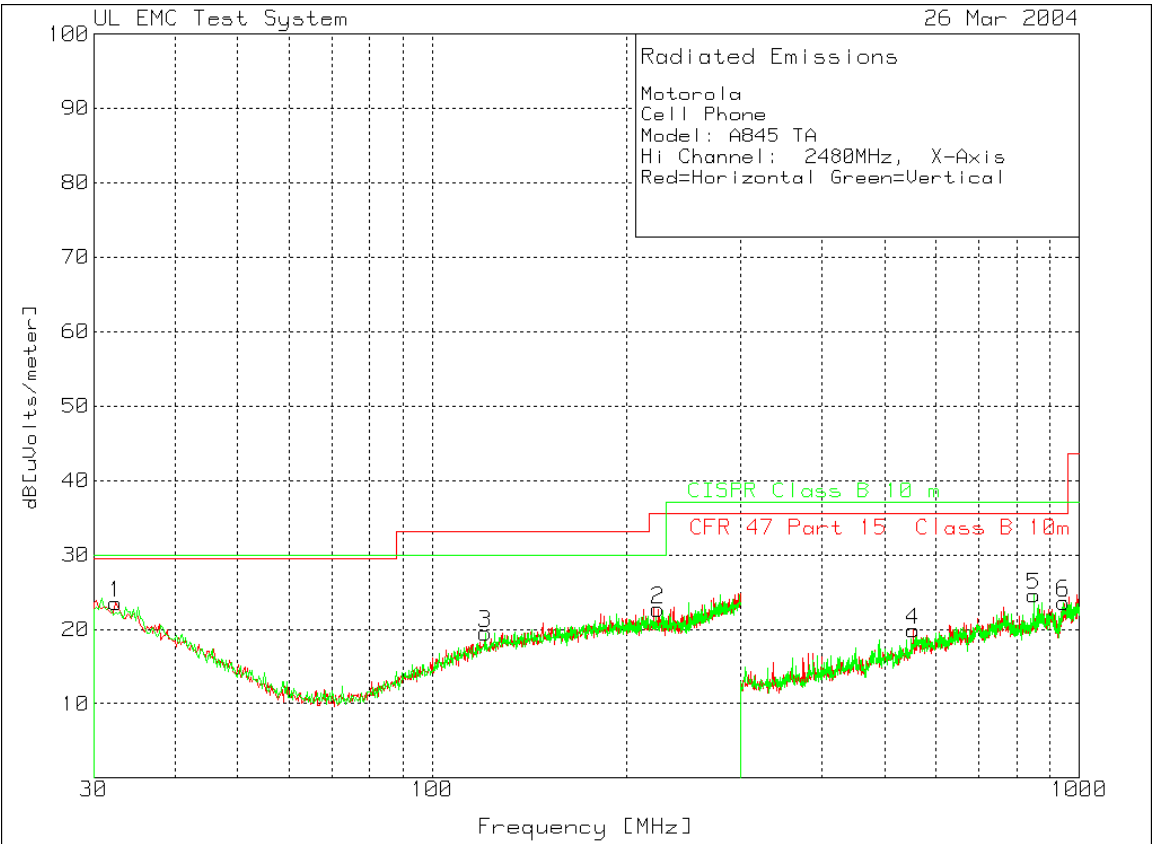
Field Strength (dBuV/m) = EMI Receiver Level (dBuV) + Cable Loss (dB) -
Amplifier Gain (dB) + Antenna Correction Factor (1/m)

A fully charged battery was used for the supply voltage.

This data was taken at Underwriter's Laboratories.

Measurement Results

Attached

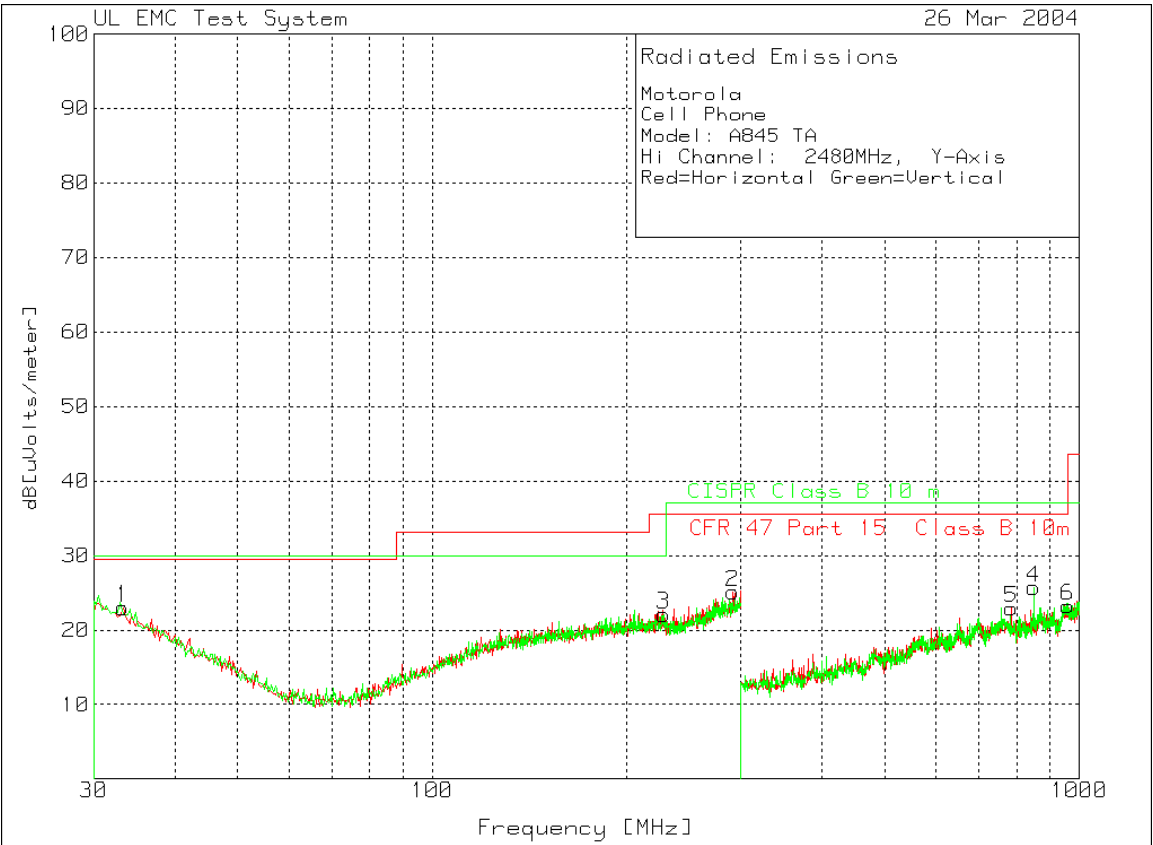


30-1000MHz High Channel Dual Polarization X

Number	Frequency [MHz]	Reading [dB(uV)]	Type	Factor [dB]	Factor [dB]	dB[uVolts/meter]						
Range: 1 30 - 300MHz												
1	32.43	31.6	pk	-26.9	18.8	23.5	29.6	-6.1	30	-6.5	169	100 Horz
2	223.32	32.7	pk	-26.1	16.1	22.7	35.6	-12.9	30	-7.3	304	100 Horz
Range: 2 30 - 300MHz												
3	120.72	32.7	pk	-26.6	13.4	19.5	33.1	-13.6	30	-10.5	352	100 Vert
Range: 3 300 - 1000MHz												
4	553.4	32.2	pk	-31.7	19.4	19.9	35.6	-15.7	37	-17.1	281	100 Horz
Range: 4 300 - 1000MHz												
5	850.9	33.7	pk	-31.9	22.8	24.6	35.6	-11	37	-12.4	149	100 Vert
6	946.1	31	pk	-31.7	24.3	23.6	35.6	-12	37	-13.4	33	100 Vert

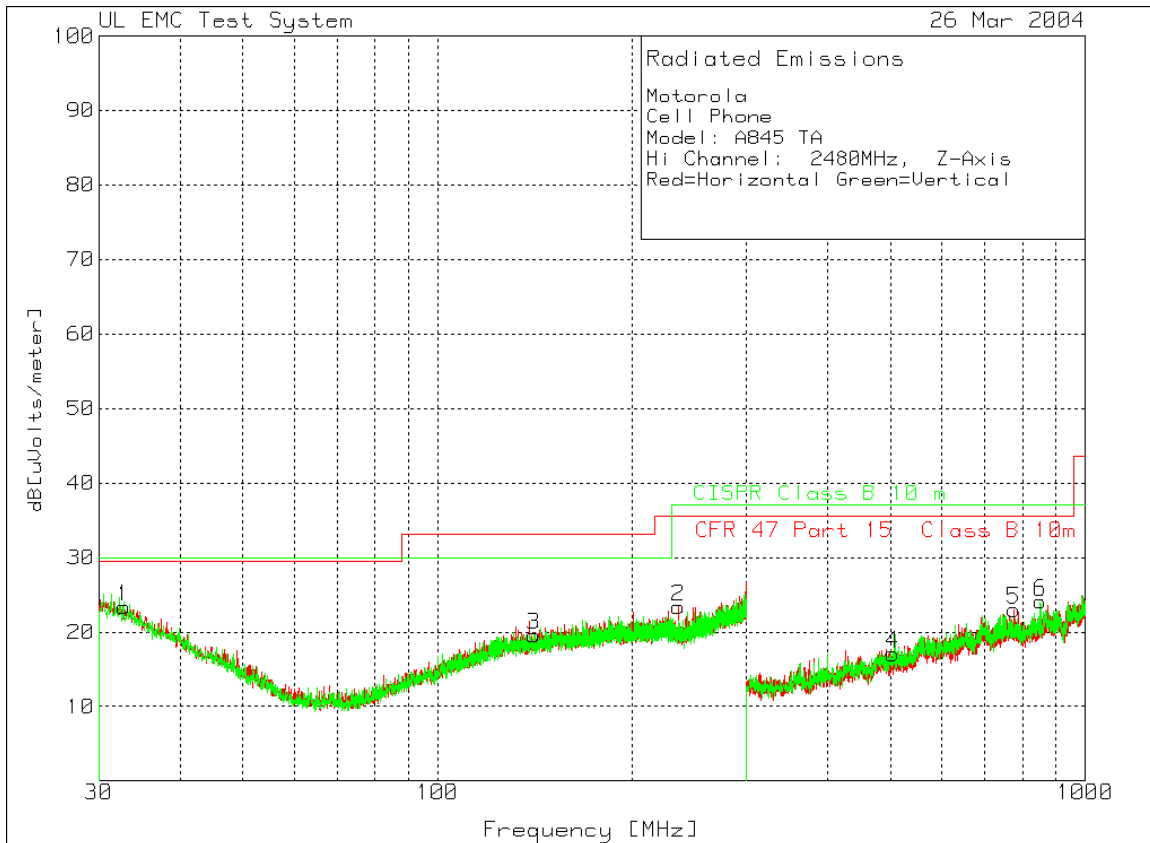
LIMIT 1: CFR 47 Part 15 Class B 10m
 LIMIT 2: CISPR Class B 10m
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector



30-1000MHz High Channel Dual Polarization Y

Motorola Cell Phone Model: A845 TA Hi Channel: 2480MHz, Y-Axis Red=Horizontal Green=Vertical													
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c]	Limit 2	Margin 2[c]	Azimuth [c]	Height [m]	Polarity
Range: 1 30 - 300MHz													
1	33.24	31.4	pk	-26.9	18.5	23	29.6	-6.6	30	-7	340	100	Horz
2	291.36	32.7	pk	-25.7	18.1	25.1	35.6	-10.5	37	-11.9	205	100	Horz
Range: 2 30 - 300MHz													
3	227.64	32.1	pk	-26.1	16.1	22.1	35.6	-13.5	30	-7.9	122	100	Vert
Range: 3 300 - 1000MHz													
5	785.1	32.5	pk	-31.5	21.9	22.9	35.6	-12.7	37	-14.1	164	100	Horz
6	959.4	30.3	pk	-31.5	24.4	23.2	35.6	-12.4	37	-13.8	187	100	Horz
Range: 4 300 - 1000MHz													
4	850.9	34.8	pk	-31.9	22.8	25.7	35.6	-9.9	37	-11.3	172	100	Vert
LIMIT 1: CFR 47 Part 15 Class B 10m LIMIT 2: CISPR Class B 10 m LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE													
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector													



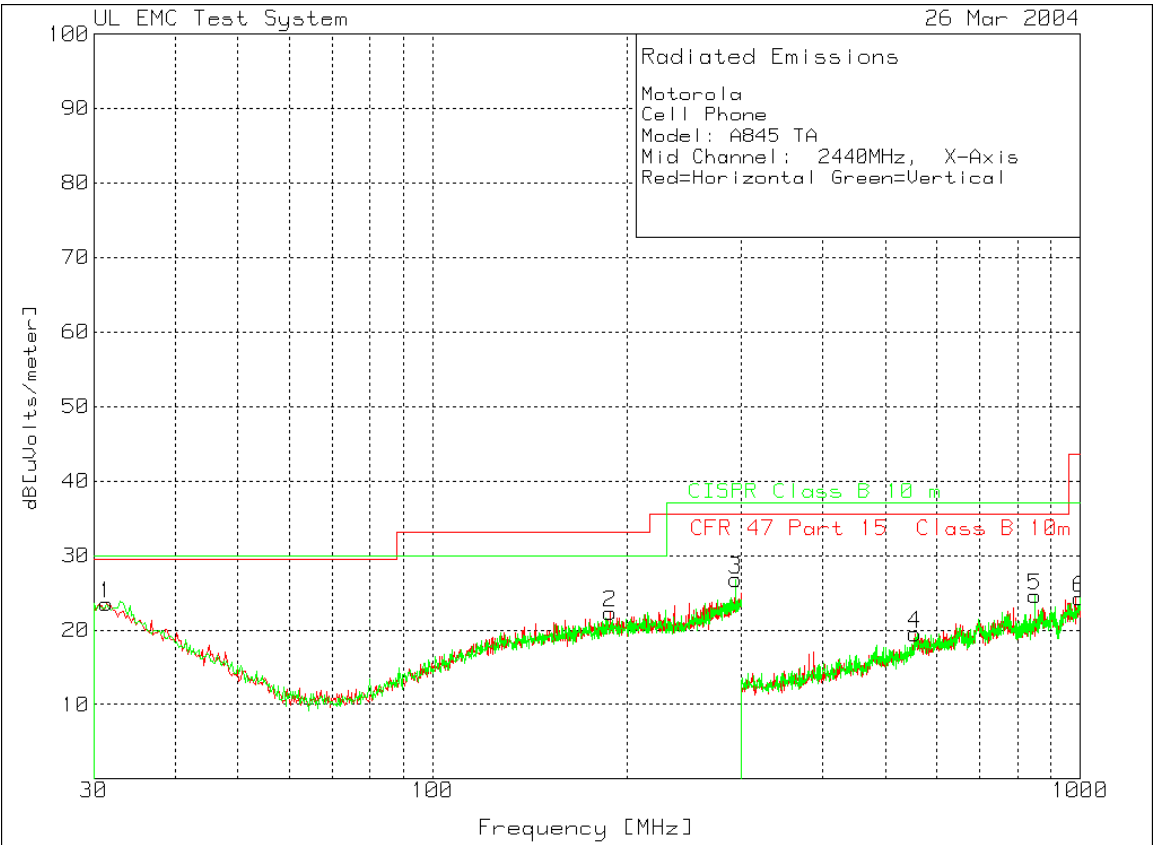
30-1000MHz High Channel Dual Polarization Z

Motorola
Cell Phone
Model: A845 TA
Hi Channel: 2480MHz, Z-Axis
Red=Horizontal Green=Vertical

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transduce Level [dB]	Limit 1 [dB]	Margin 1 [dB]	Limit 2 [dB]	Margin 2 [dB]	Azimuth [°]	Height [cm]	Polarity
Range: 1 30 - 300MHz													
1	32.7654	31.6	pk	-26.9	18.7	23.4	29.6	-6.2	30	-6.6	170	100	Horz
2	235.2473	33.7	pk	-26	15.7	23.4	35.6	-12.2	37	-13.6	170	100	Horz
Range: 2 30 - 300MHz													
3	140.6164	31.7	pk	-26.5	14.4	19.6	33.1	-13.5	30	-10.4	128	100	Vert
Range: 3 300 - 1000MHz													
4	504.0721	31.1	pk	-31.9	17.9	17.1	35.6	-18.5	37	-19.9	70	100	Horz
5	775.9934	32.3	pk	-31.5	22.2	23	35.6	-12.6	37	-14	305	100	Horz
Range: 4 300 - 1000MHz													
6	852.7235	33.2	pk	-31.9	22.8	24.1	35.6	-11.5	37	-12.9	238	100	Vert

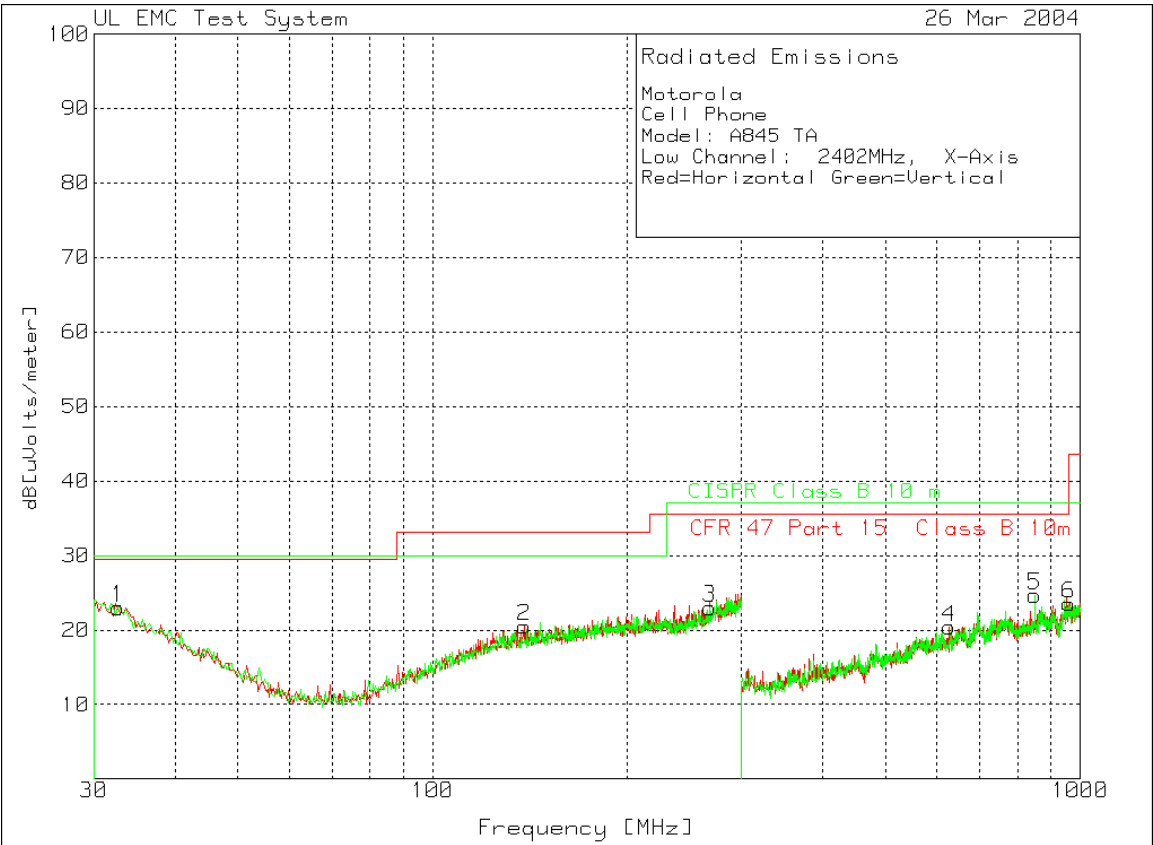
LIMIT 1: CFR 47 Part 15 Class B 10m
LIMIT 2: CISPR Class B 10 m
LIMIT 3: NONE
LIMIT 4: NONE
LIMIT 5: NONE
LIMIT 6: NONE

pk - Peak detector
qp - Quasi-Peak detector
av - Average detector
avlg - Average log detector
avem - EMI Average detector



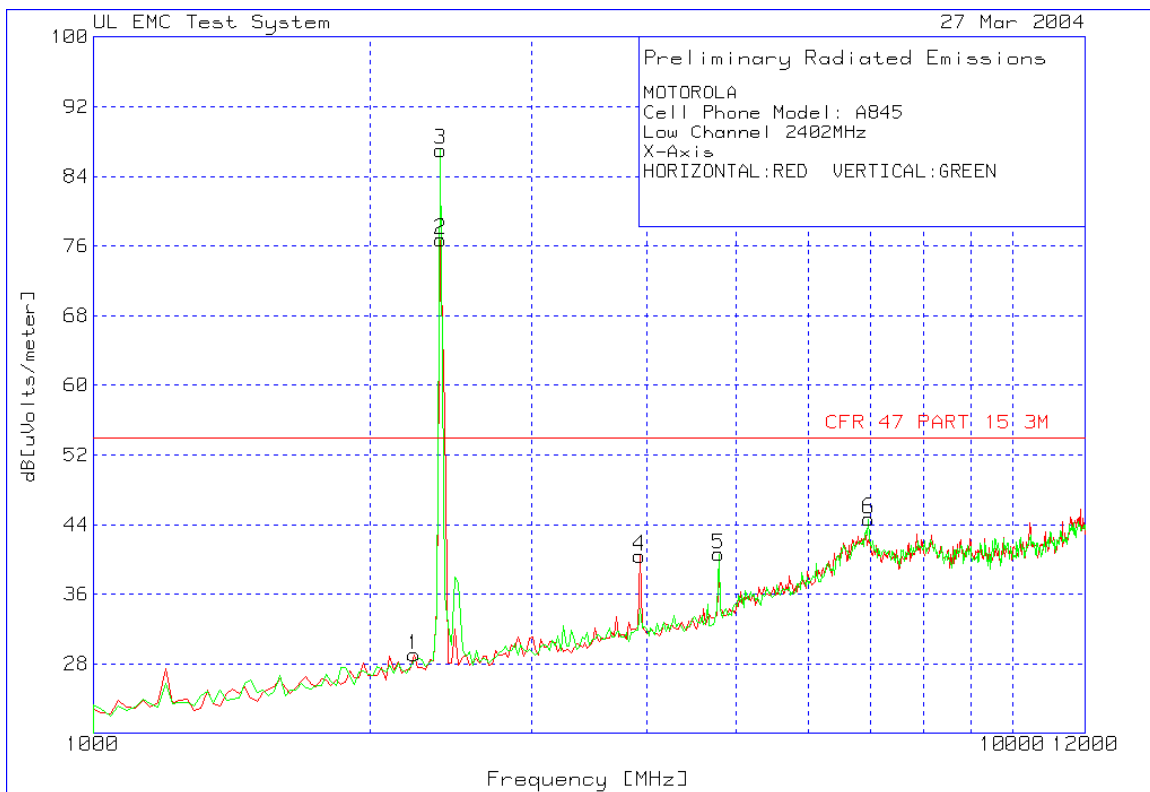
30-1000MHz Mid Channel Dual Polarization X

Motorola Cell Phone Model: A845 TA Mid Channel: 2440MHz, X-Axis Red=Horizontal Green=Vertical												
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transduce Level dB[uVolts/meter]	Limit 1	Margin 1[c Limit 2	Margin 2[c	Azimuth [c	Height [cn	Polarity
Range: 1 30 - 300MHz												
1	31.35	31.4 pk		-26.9	19	23.5	29.6	-6.1	30	-6.5	105	100 Horz
2	187.95	32.8 pk		-26.4	15.9	22.3	33.1	-10.8	30	-7.7	138	100 Horz
Range: 2 30 - 300MHz												
3	293.79	34.3 pk		-25.6	18.1	26.8	35.6	-8.8	37	-10.2	19	100 Vert
Range: 3 300 - 1000MHz												
4	555.5	31.7 pk		-31.7	19.5	19.5	35.6	-16.1	37	-17.5	164	100 Horz
Range: 4 300 - 1000MHz												
5	851.6	33.7 pk		-31.9	22.8	24.6	35.6	-11	37	-12.4	350	100 Vert
6	997.9	30.7 pk		-30.7	24.3	24.3	43.5	-19.2	37	-12.7	333	100 Vert
LIMIT 1: CFR 47 Part 15 Class B 10m LIMIT 2: CISPR Class B 10m LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE												
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector												



Motorola													
Cell Phone													
Model: A845 TA													
Low Channel: 2402MHz, X-Axis													
Red=Horizontal Green=Vertical													
Marker	Test	Meter	Detector	Gain/Loss	Transduce	Level	Limit 1	Margin 1	c Limit 2	Margin 2	c Azimuth	c Height	cn Polarity
Number	Frequency	Reading	Type	Factor	Factor	dB[uVolts/meter]							
	[MHz]	[dB(uV)]		[dB]	[dB]								
Range: 1 30 - 300MHz													
1	32.7	31.2 pk		-26.9	18.7	23	29.6	-6.6	30	-7	274	100	Horz
2	138.54	32.7 pk		-26.6	14.4	20.5	33.1	-12.6	30	-9.5	342	100	Horz
Range: 2 30 - 300MHz													
3	267.87	31.8 pk		-25.8	17	23	35.6	-12.6	37	-14	190	100	Vert
Range: 3 300 - 1000MHz													
4	628.3	32 pk		-31.3	19.7	20.4	35.6	-15.2	37	-16.6	351	100	Horz
Range: 4 300 - 1000MHz													
5	850.9	33.8 pk		-31.9	22.8	24.7	35.6	-10.9	37	-12.3	169	100	Vert
6	960.1	30.7 pk		-31.6	24.4	23.5	43.5	-20	37	-13.5	169	100	Vert
LIMIT 1: CFR 47 Part 15 Class B 10m													
LIMIT 2: CISPR Class B 10 m													
LIMIT 3: NONE													
LIMIT 4: NONE													
LIMIT 5: NONE													
LIMIT 6: NONE													

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector



1-12 GHz Low Channel Dual Polarization X

MOTOROLA
Cell Phone Model: A845
Low Channel 2402MHz
X-Axis

HORIZONTAL:RED VERTICAL:GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB(uVolts/meter)]	Limit 1	Margin 1[c]	Height [cm]	Polarity
Horizontal 1000 - 12000MHz										
1	2234.469	55.32	pk	-54.8	28.5	29.02	54	-24.98		101 Horz
2	2388.778	102.63	pk	-54.6	28.7	76.73	54	-22.73		101 Horz
4	3931.864	62.38	pk	-54.5	32.5	40.38	54	-13.62		101 Horz
Vertical 1000 - 12000MHz										
3	2388.778	112.96	pk	-54.6	28.7	87.06	54	33.06		101 Vert
5	4791.583	59.98	pk	-53.1	33.7	40.58	54	-13.42		101 Vert
6	6973.948	56.95	pk	-48.8	36.5	44.65	54	-9.35		101 Vert

LIMIT 1: CFR 47 PART 15.3M

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

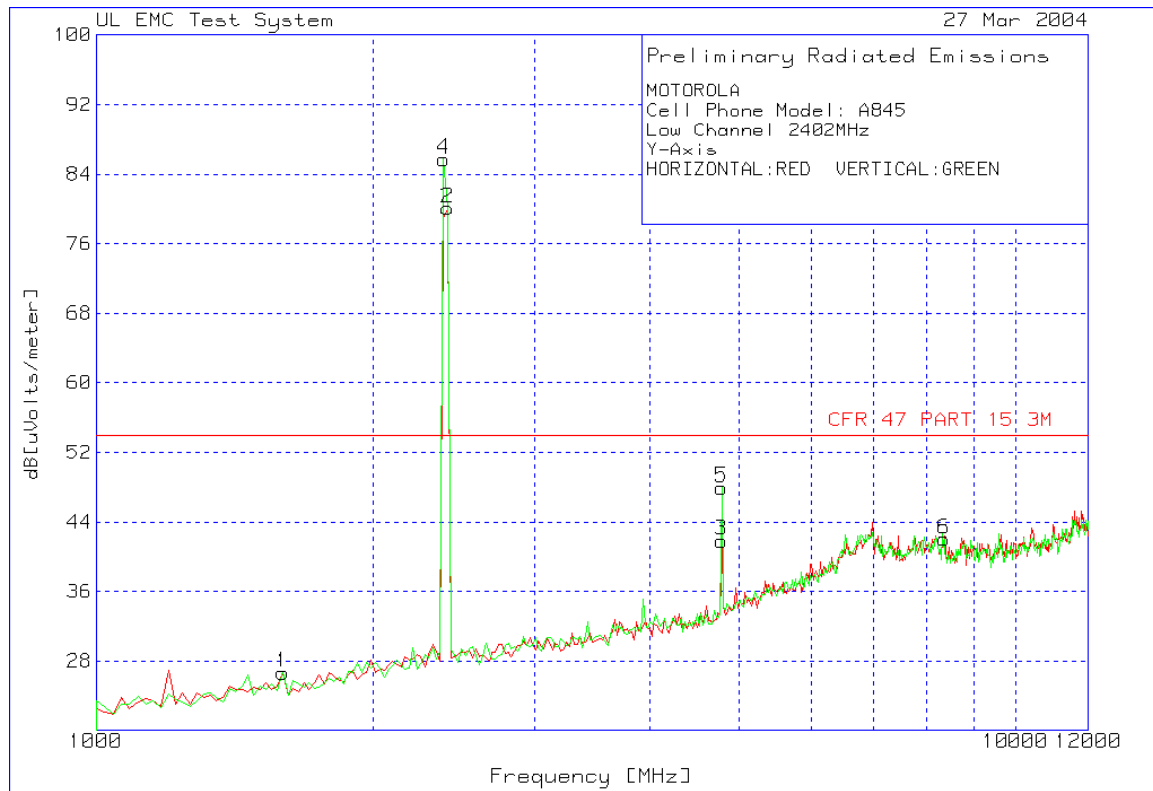
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 3 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz Low Channel Dual Polarization Y

MOTOROLA
Cell Phone Model: A845
Low Channel 2402MHz
Y-Axis

HORIZONTAL: RED VERTICAL: GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c Height [cn	Polarity
Horizontal 1000 - 12000MHz									
1	1595.19	57.56	pk	-57.9	27	26.66	54	-27.34	101 Horz
2	2410.822	105.98	pk	-54.7	28.8	80.08	54	26.08	101 Horz
3	4791.583	61.26	pk	-53.1	33.7	41.86	54	-12.14	101 Horz
Vertical 1000 - 12000MHz									
4	2388.778	111.6	pk	-54.6	28.7	85.7	54	31.7	101 Vert
5	4791.583	67.33	pk	-53.1	33.7	47.93	54	-6.07	101 Vert
6	8362.725	54.63	pk	-50.7	38.1	42.03	54	-11.97	101 Vert

LIMIT 1: CFR 47 PART 15.3M

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

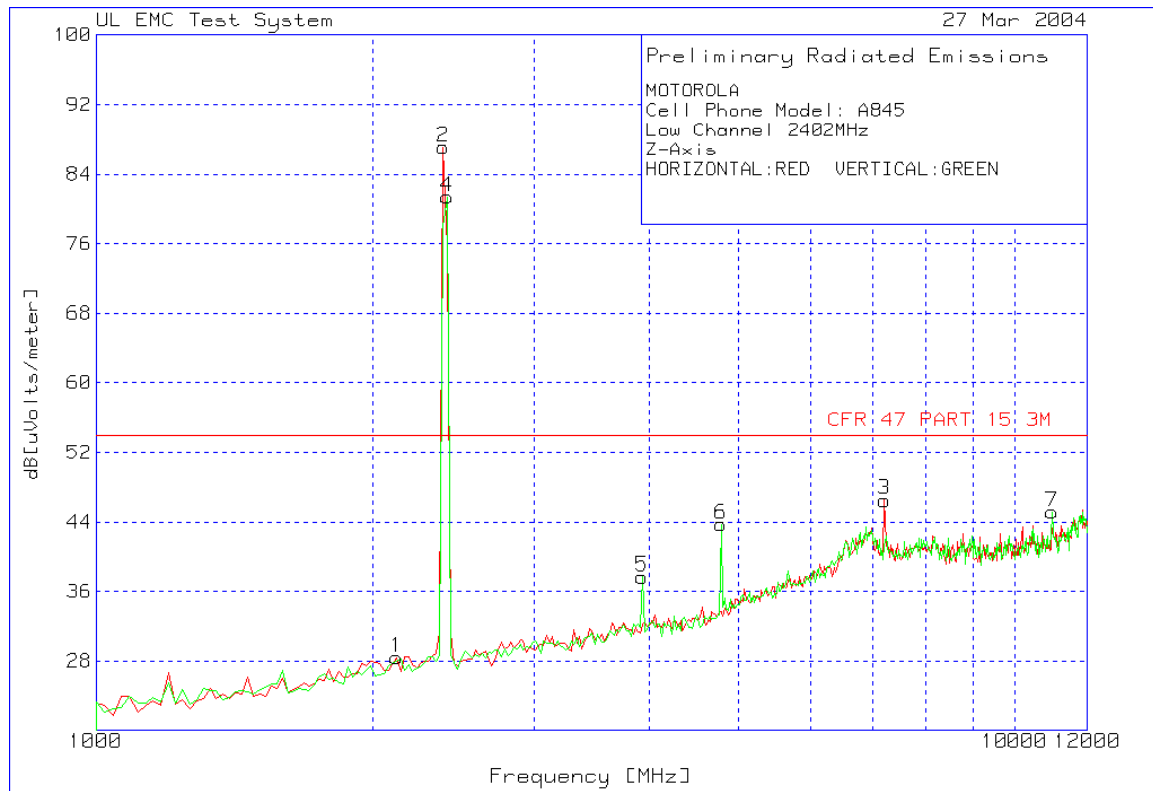
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 4 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz Low Channel Dual Polarization Z

MOTOROLA
Cell Phone Model: A845
Low Channel 2402MHz
Z-Axis

HORIZONTAL: RED VERTICAL: GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB]	Limit 1 [dB]	Margin 1 [dB]	Height [cm]	Polarity
Horizontal 1000 - 12000MHz										
1	2124.248	55.68	pk	-55.7	28.4	28.38	54	-25.62	101	Horz
2	2388.778	112.99	pk	-54.6	28.7	87.09	54	33.09	101	Horz
3	7216.433	58.93	pk	-48.9	36.5	46.53	54	-7.47	101	Horz
Vertical 1000 - 12000MHz										
4	2410.822	107.29	pk	-54.7	28.8	81.39	54	27.39	101	Vert
5	3931.864	59.66	pk	-54.5	32.5	37.66	54	-16.34	101	Vert
6	4791.583	63.1	pk	-53.1	33.7	43.7	54	-10.3	101	Vert
7	10985.97	54.34	pk	-47.8	38.6	45.14	54	-8.86	101	Vert

LIMIT 1: CFR 47 PART 15 3M

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

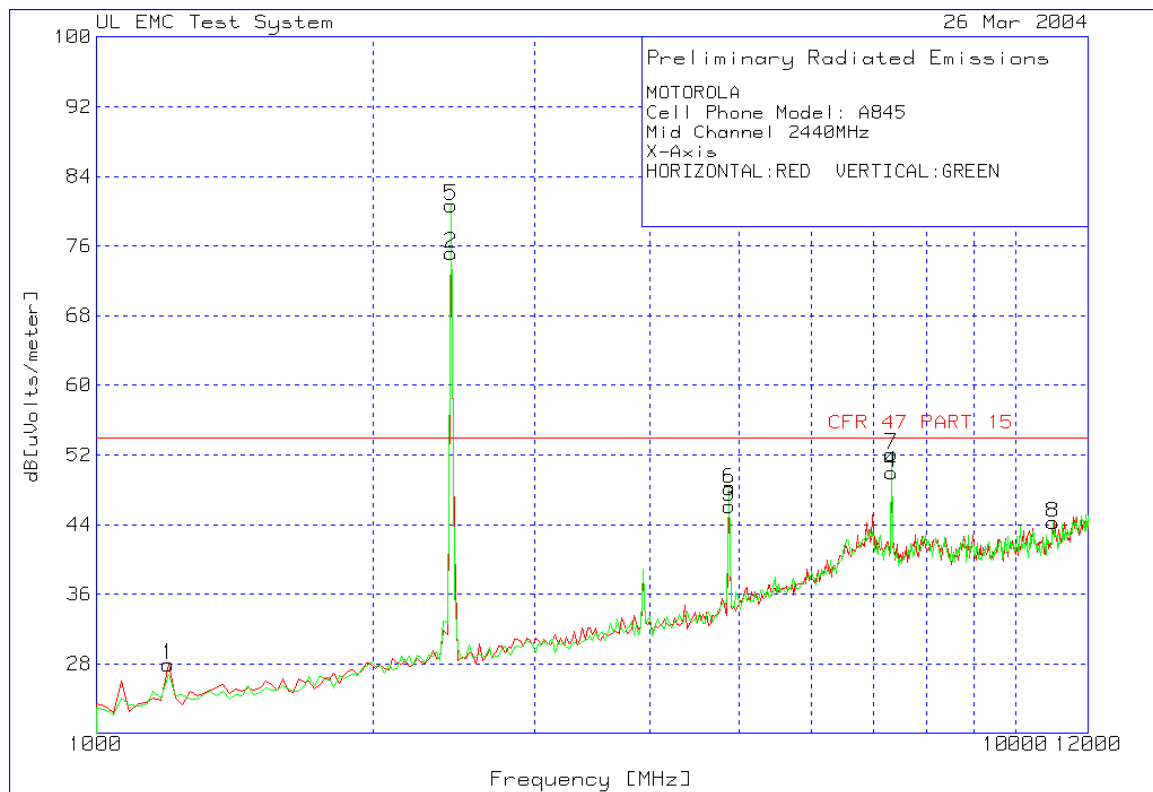
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 4 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz Mid Channel Dual Polarization X

MOTOROLA
Cell Phone Model: A845
Mid Channel 2440MHz
X-Axis

HORIZONTAL:RED VERTICAL:GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c]	Height [cn]	Polarity
Horizontal 1000 - 12000MHz										
1	1198.397	61.62	pk	-59.4	25.7	27.92	54	-26.08		101 Horz
2	2432.866	101.17	pk	-54.8	28.8	75.17	54	21.17		101 Horz
3	4879.759	65.53	pk	-53.3	33.9	46.13	54	-7.87		101 Horz
4	7326.653	61.37	pk	-47.9	36.5	49.97	54	-4.03		101 Horz
Vertical 1000 - 12000MHz										
5	2432.866	106.66	pk	-54.8	28.8	80.66	54	26.66		101 Vert
6	4879.759	67.53	pk	-53.3	33.9	48.13	54	-5.87		101 Vert
7	7326.653	63.49	pk	-47.9	36.5	52.09	54	-1.91		101 Vert
8	10985.97	53.42	pk	-47.8	38.6	44.22	54	-9.78		101 Vert

LIMIT 1: CFR 47 PART 15

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

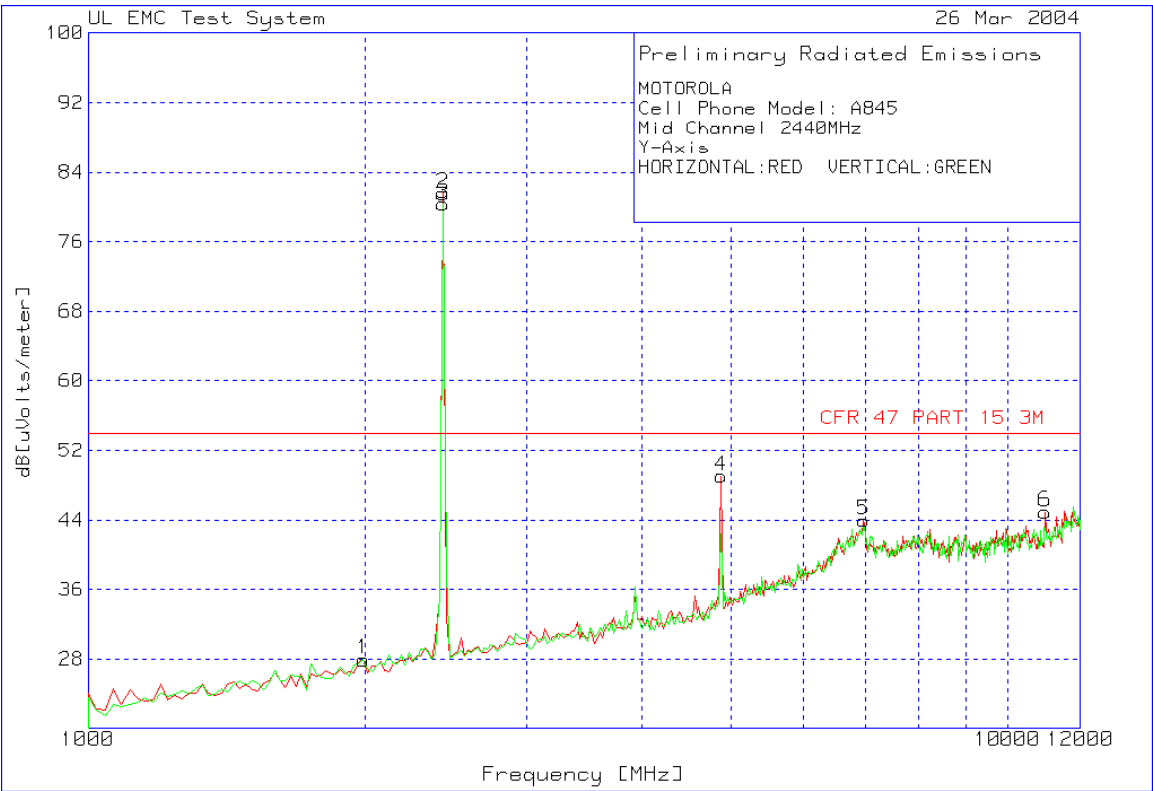
pk - Peak detector

qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

Note: Peaks 2 and 5 are the fundamental emission. The plot and table incorrectly show non-compliance.



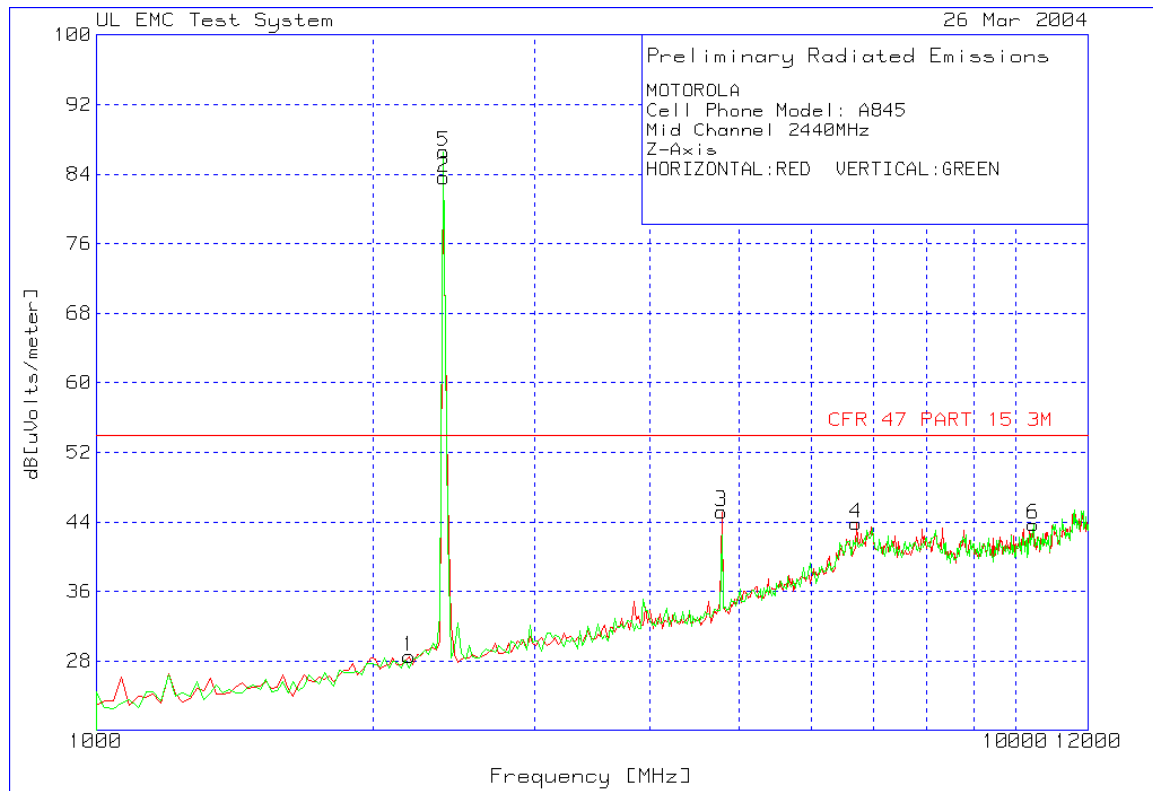
1-12 GHz Mid Channel Dual Polarization Y

MOTOROLA								
Cell Phone Model: A845								
Mid Channel 2440MHz								
Y-Axis								
HORIZONTAL:RED VERTICAL:GREEN								
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transduce Level [dB]	Limit 1 [dB]	Margin 1[c Height [cn Polarity
Horizontal 1000 - 12000MHz								
1	1991.984	55.17	pk	-55.4	28.2	27.97	54	-26.03 101 Horz
2	2432.866	107.54	pk	-54.8	28.8	81.54	54	27.54 101 Horz
4	4879.759	68.44	pk	-53.3	33.9	49.04	54	-4.96 101 Horz
5	6973.948	56.25	pk	-48.8	36.5	43.95	54	-10.05 101 Horz
6	10985.97	54.11	pk	-47.8	38.6	44.91	54	-9.09 101 Horz
Vertical 1000 - 12000MHz								
3	2432.866	106.35	pk	-54.8	28.8	80.35	54	26.35 101 Vert

LIMIT 1: CFR 47 PART 15 3M
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector

Note: Peaks 2 and 3 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz Mid Channel Dual Polarization Z

MOTOROLA
Cell Phone Model: A845
Mid Channel 2440MHz
Z-Axis

HORIZONTAL:RED VERTICAL:GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c]	Height [cn]	Polarity
Horizontal 1000 - 12000MHz										
1	2190.381	55.21	pk	-55.2	28.5	28.51	54	-25.49		101 Horz
2	2388.778	109.52	pk	-54.6	28.7	83.62	54	29.62		101 Horz
3	4791.583	64.57	pk	-53.1	33.7	45.17	54	-8.83		101 Horz
4	6709.419	56.52	pk	-48.3	35.6	43.82	54	-10.18		101 Horz
Vertical 1000 - 12000MHz										
5	2388.778	112.48	pk	-54.6	28.7	86.58	54	32.58		101 Vert
6	10456.91	53.59	pk	-48.4	38.5	43.69	54	-10.31		101 Vert

LIMIT 1: CFR 47 PART 15.3M

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

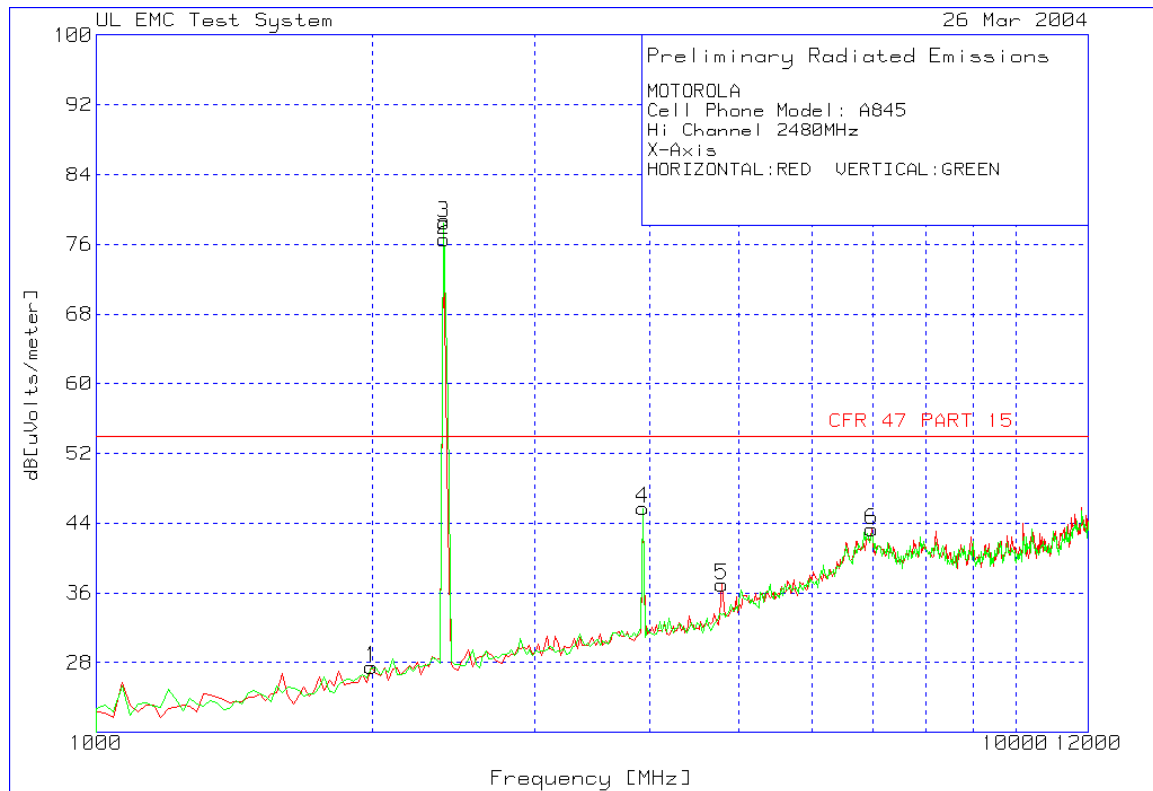
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 5 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz High Channel Dual Polarization X

MOTOROLA
Cell Phone Model: A845
Hi Channel 2480MHz
X-Axis

HORIZONTAL: RED VERTICAL: GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c]	Height [cn]	Polarity
Horizontal 1000 - 12000MHz										
1	1991.984	54.68	pk	-55.4	28.2	27.48	54	-26.52		101 Horz
2	2388.778	102.49	pk	-54.6	28.7	76.59	54	22.59		101 Horz
5	4791.583	56.33	pk	-53.1	33.7	36.93	54	-17.07		101 Horz
6	6973.948	55.59	pk	-48.8	36.5	43.29	54	-10.71		101 Horz
Vertical 1000 - 12000MHz										
3	2388.778	104.38	pk	-54.6	28.7	78.48	54	24.48		101 Vert
4	3931.864	67.71	pk	-54.5	32.5	45.71	54	-8.29		101 Vert

LIMIT 1: CFR 47 PART 15

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

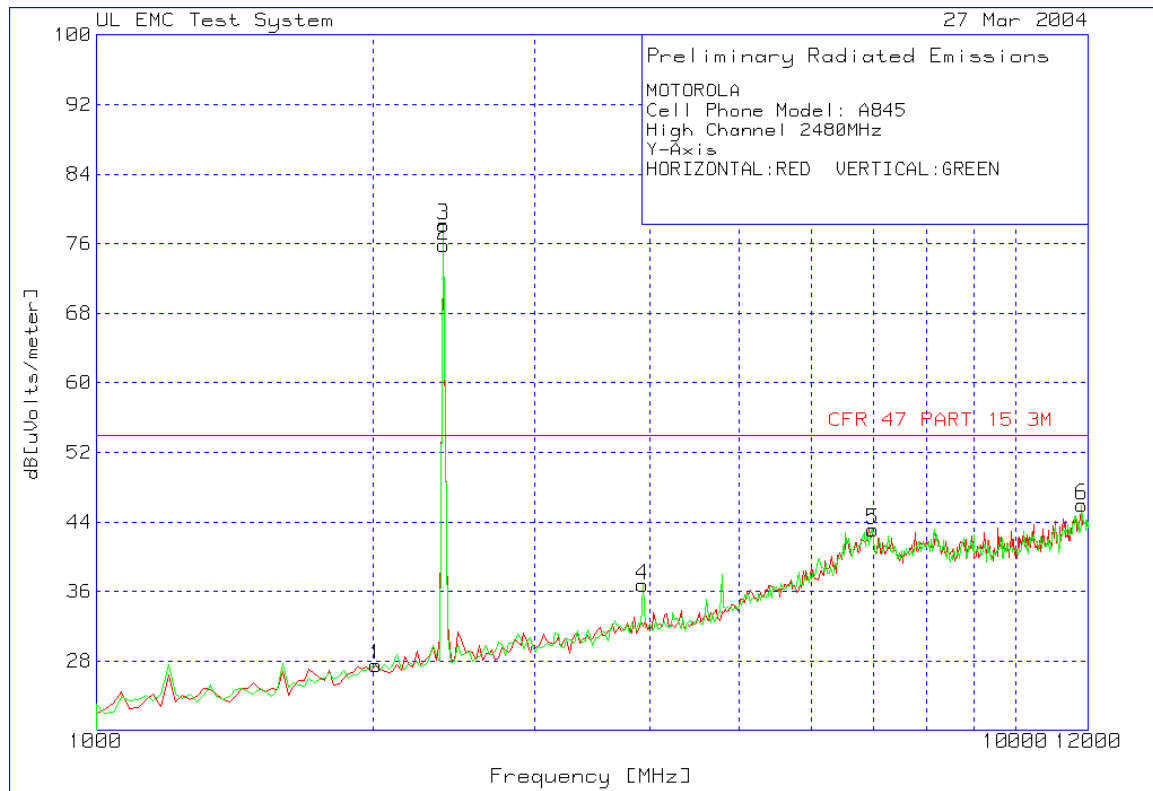
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 3 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz High Channel Dual Polarization Y

MOTOROLA
Cell Phone Model: A845
High Channel 2480MHz
Y-Axis

HORIZONTAL: RED VERTICAL: GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c Height [cn	Polarity
Horizontal 1000 - 12000MHz									
1	2014.028	54.88 pk		-55.5	28.2	27.58	54	-26.42	101 Horz
2	2388.778	101.78 pk		-54.6	28.7	75.88	54	21.88	101 Horz
Vertical 1000 - 12000MHz									
3	2388.778	104.05 pk		-54.6	28.7	78.15	54	24.15	101 Vert
4	3931.864	58.74 pk		-54.5	32.5	36.74	54	-17.26	101 Vert
5	6995.992	54.72 pk		-48.2	36.6	43.12	54	-10.88	101 Vert
6	11801.6	54.14 pk		-47.8	39.6	45.94	54	-8.06	101 Vert

LIMIT 1: CFR 47 PART 15.3M

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

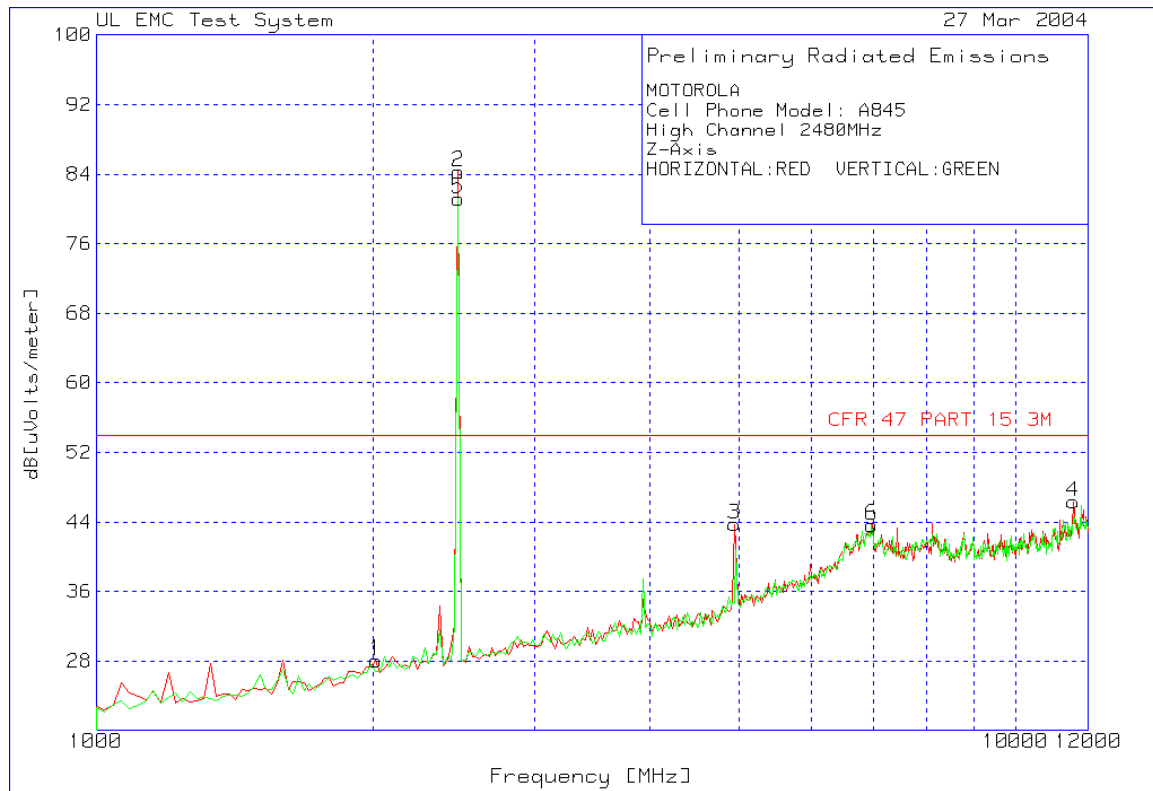
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 3 are the fundamental emission. The plot and table incorrectly show non-compliance.



1-12 GHz High Channel Dual Polarization Z

MOTOROLA
Cell Phone Model: A845
High Channel 2480MHz
Z-Axis

HORIZONTAL: RED VERTICAL: GREEN

Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c Height [cn	Polarity
Horizontal 1000 - 12000MHz									
1	2014.028	55.36	pk	-55.5	28.2	28.06	54	-25.94	101 Horz
2	2476.954	109.9	pk	-54.5	28.9	84.3	54	30.3	101 Horz
3	4945.892	62.92	pk	-53.3	34.1	43.72	54	-10.28	101 Horz
4	11559.12	54.91	pk	-48	39.4	46.31	54	-7.69	101 Horz
Vertical 1000 - 12000MHz									
5	2476.954	106.78	pk	-54.5	28.9	81.18	54	27.18	101 Vert
6	6973.948	55.93	pk	-48.8	36.5	43.63	54	-10.37	101 Vert

LIMIT 1: CFR 47 PART 15.3M

LIMIT 2: NONE

LIMIT 3: NONE

LIMIT 4: NONE

LIMIT 5: NONE

LIMIT 6: NONE

pk - Peak detector

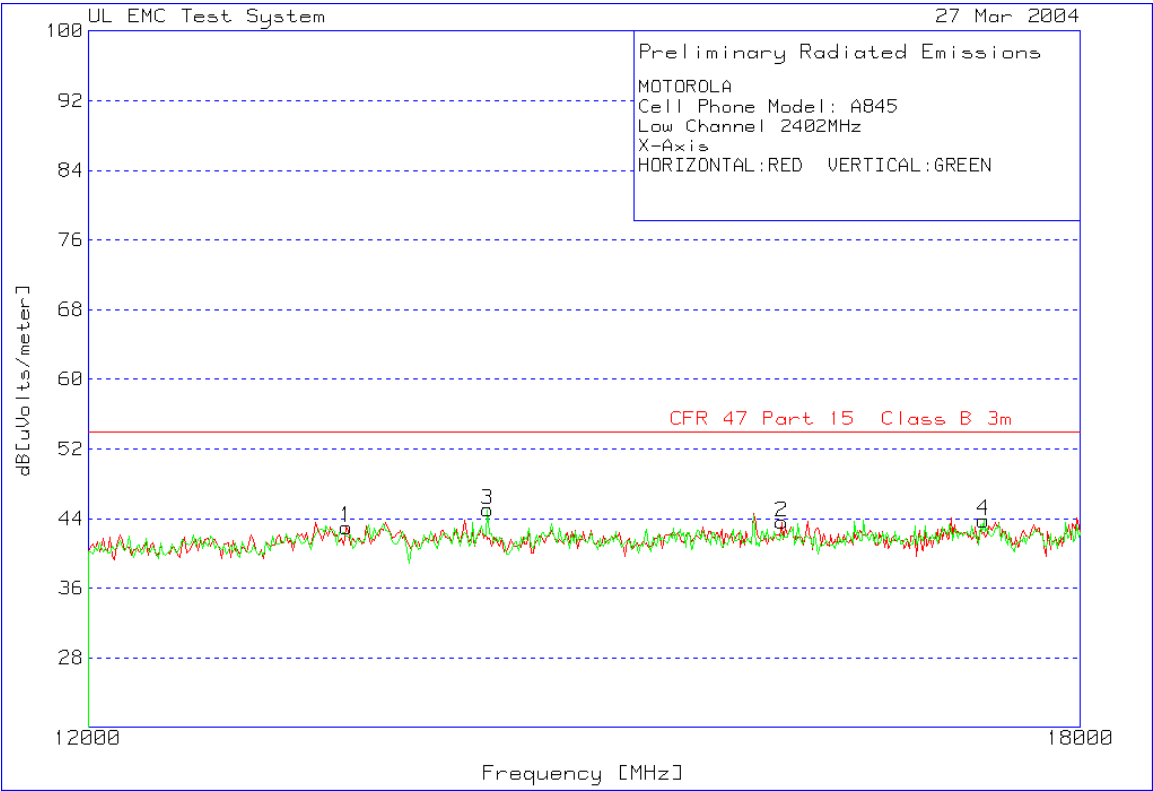
qp - Quasi-Peak detector

av - Average detector

avlg - Average log detector

avem - EMI Average detector

Note: Peaks 2 and 5 are the fundamental emission. The plot and table incorrectly show non-compliance.

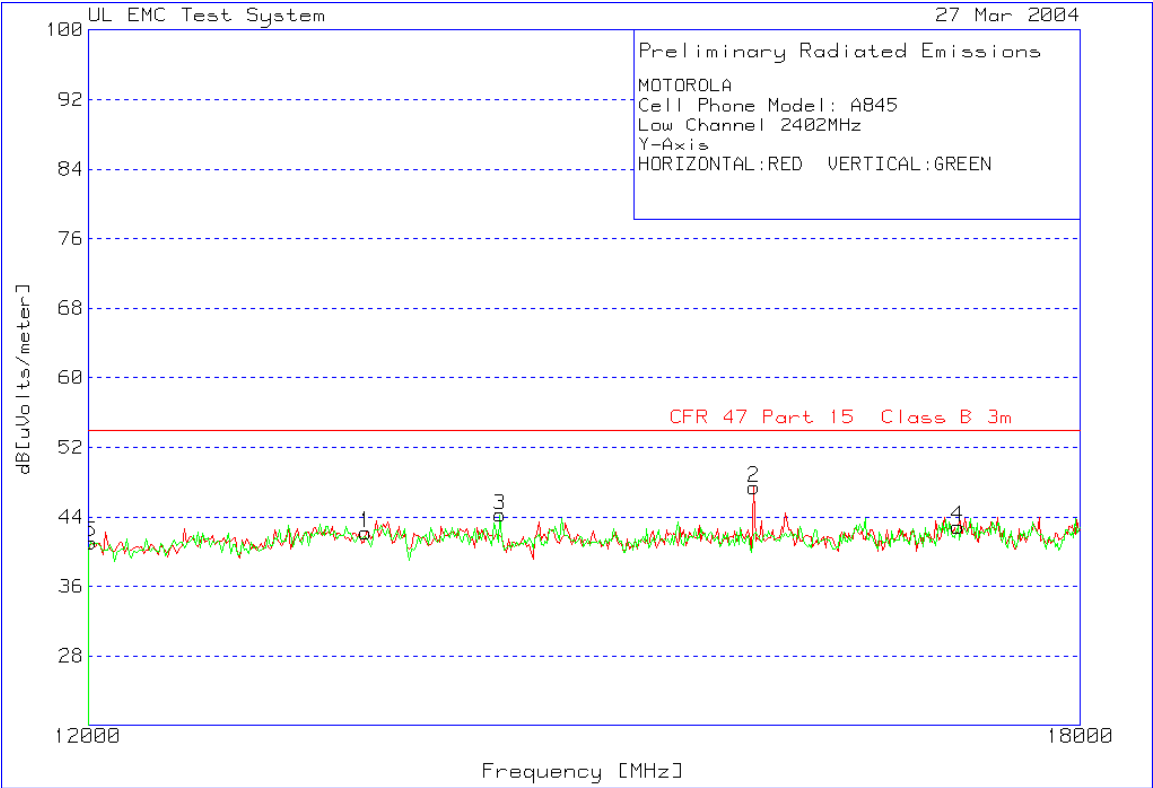


12-18 GHz Low Channel Dual Polarization X

MOTOROLA									
Cell Phone Model: A845									
Low Channel 2402MHz									
X-Axis									
HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain Factor [dB]	Loss Factor [dB]	Transducer Level dB[uVolts/meter]	Limit 1	Margin 1[c Height [cn	Polarity
Horizontal 12000 - 18000MHz									
1	13334.67	48.78	pk	-45.6	39.8	42.98	54	-11.02	101 Horz
2	15931.86	46.18	pk	-42.5	39.9	43.58	54	-10.42	101 Horz
Vertical 12000 - 18000MHz									
3	14128.26	49.6	pk	-44.5	39.9	45	54	-9	101 Vert
4	17302.61	45.58	pk	-42	40.2	43.78	54	-10.22	101 Vert

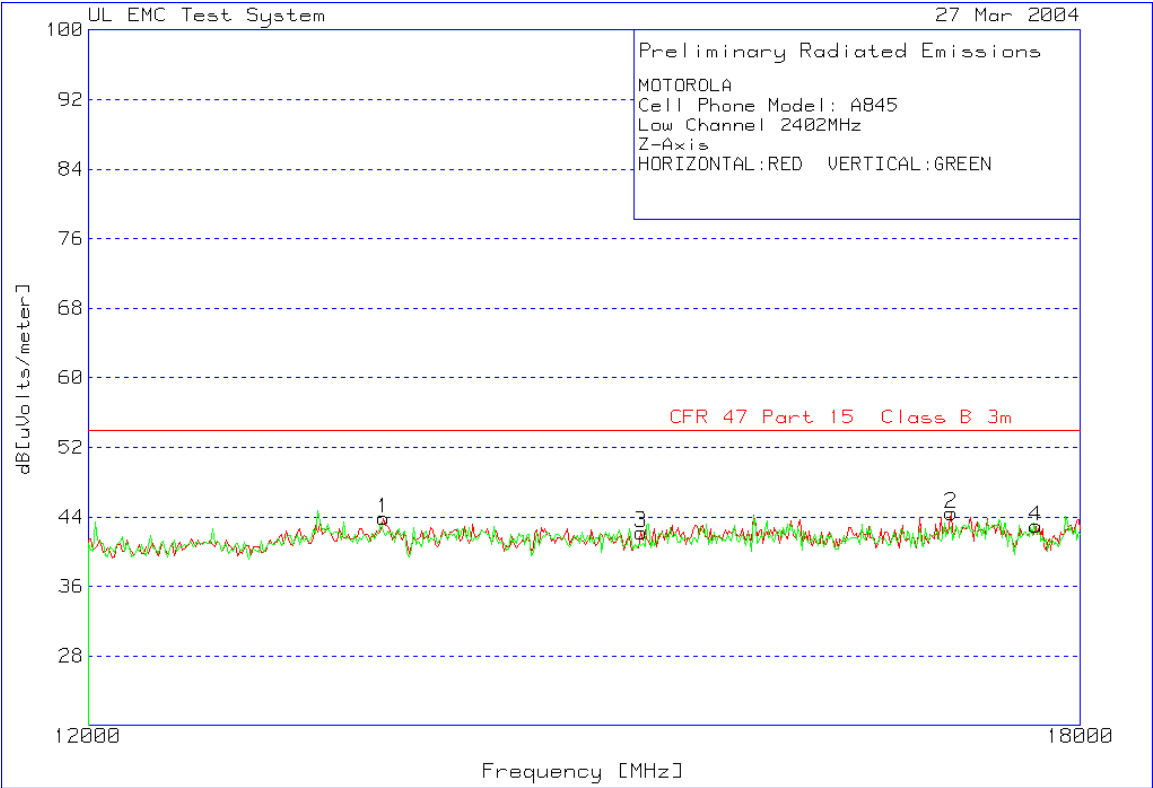
LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector



12-18 GHz Low Channel Dual Polarization Y

MOTOROLA Cell Phone Model: A845 Low Channel 2402MHz Y-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB(uVolts/meter)]	Limit 1	Marg 1 [c]	Height [cm] Polarity
Horizontal 12000 - 18000MHz									
1	13442.89	48.14	pk	-45.7	39.8	42.24	54	-11.76	101 Horz
2	15751.5	49.71	pk	-42.3	40	47.41	54	-6.59	101 Horz
Vertical 12000 - 18000MHz									
3	14200.4	47.82	pk	-43.5	39.9	44.22	54	-9.78	101 Vert
4	17122.24	43.99	pk	-41.4	40.3	42.89	54	-11.11	101 Vert
5	12012.02	50.79	pk	-49.1	39.4	41.09	54	-12.91	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									

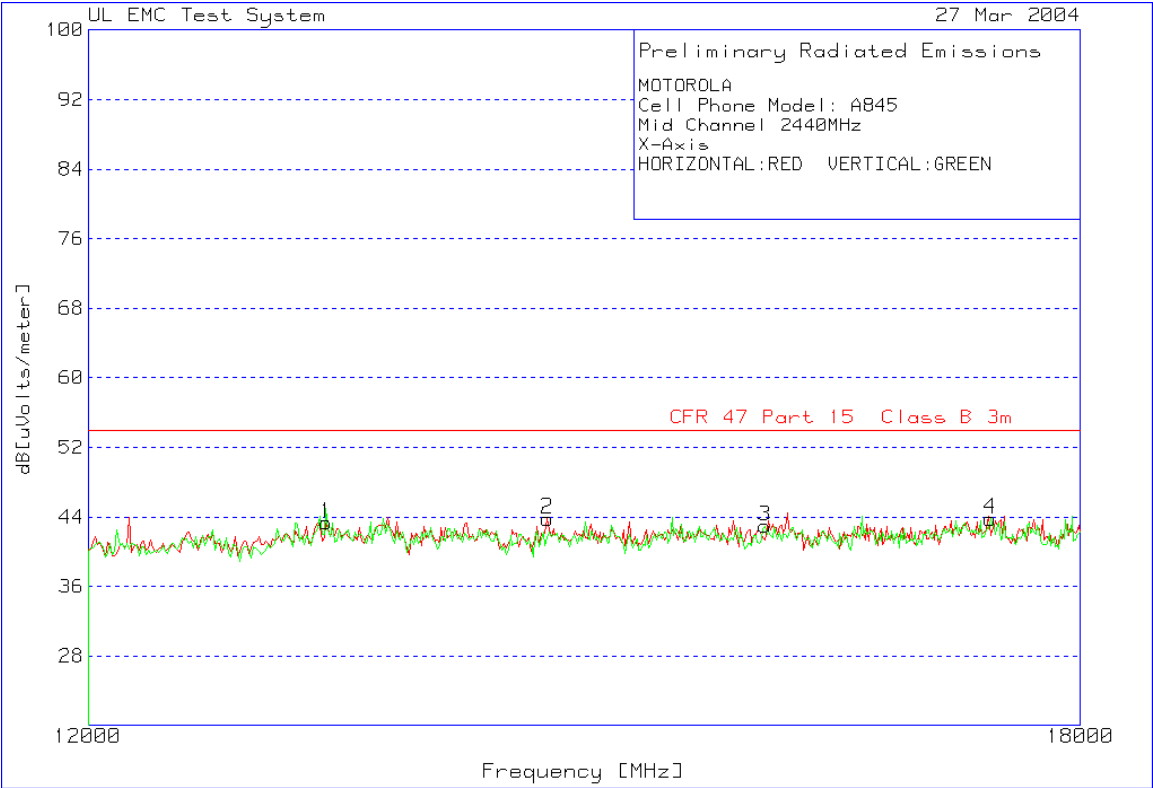


12-18 GHz Low Channel Dual Polarization Z

MOTOROLA Cell Phone Model: A845 Low Channel 2402MHz Z-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB(uVolts/meter)]	Limit 1	Margin 1[c]	Height [cm] Polarity
Horizontal 12000 - 18000MHz									
1	13539.08	50.23	pk	-46.2	39.8	43.83	54	-10.17	101 Horz
2	17074.15	46.12	pk	-42	40.3	44.42	54	-9.58	101 Horz
3	15042.08	45.2	pk	-42.8	39.8	42.2	54	-11.8	101 Horz
4	17675.35	43.44	pk	-40.5	40	42.94	54	-11.06	101 Horz

LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector

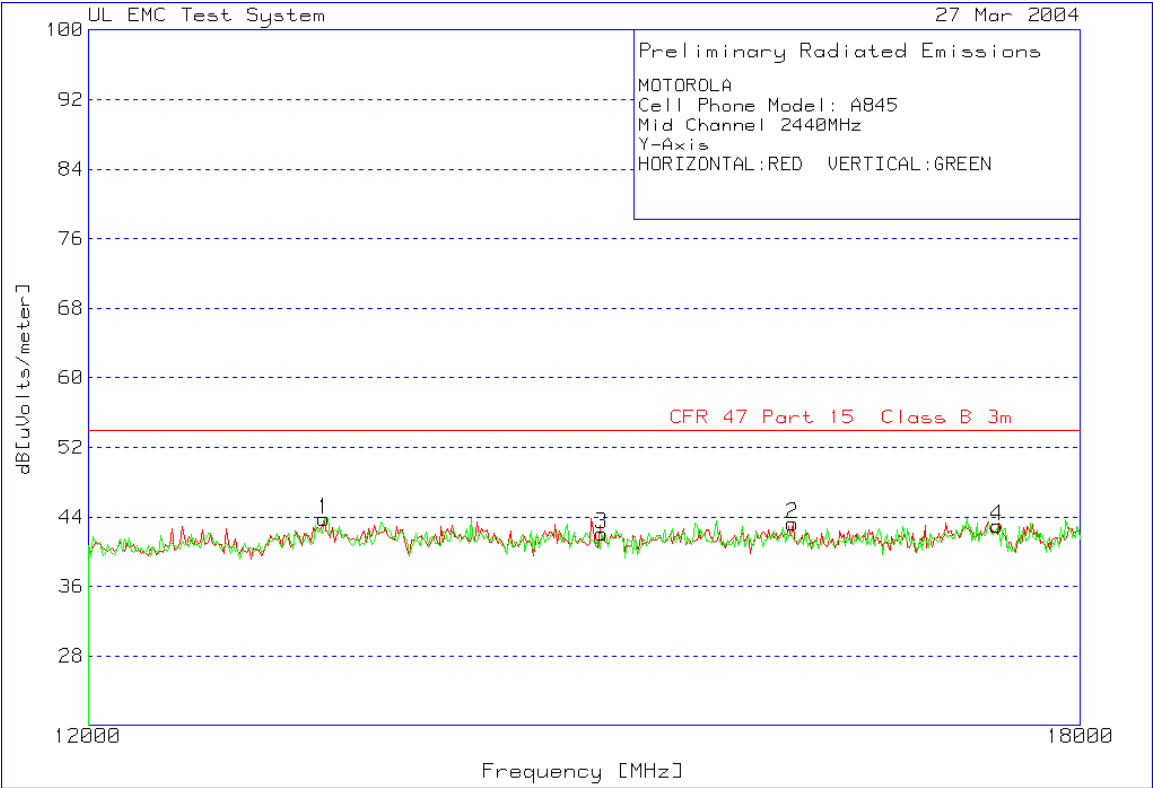


12-18 GHz Mid Channel Dual Polarization X

MOTOROLA									
Cell Phone Model: A845									
Mid Channel 2440MHz									
X-Axis									
HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c]	Height [cn Polarity
Horizontal 12000 - 18000MHz									
1	13226.45	48.93	pk	-45.4	39.8	43.33	54	-10.67	101
2	14476.95	47.4	pk	-43.4	39.8	43.8	54	-10.2	101
Vertical 12000 - 18000MHz									
3	15823.65	45.33	pk	-42.4	40	42.93	54	-11.07	101
4	17350.7	45.3	pk	-41.6	40.1	43.8	54	-10.2	101

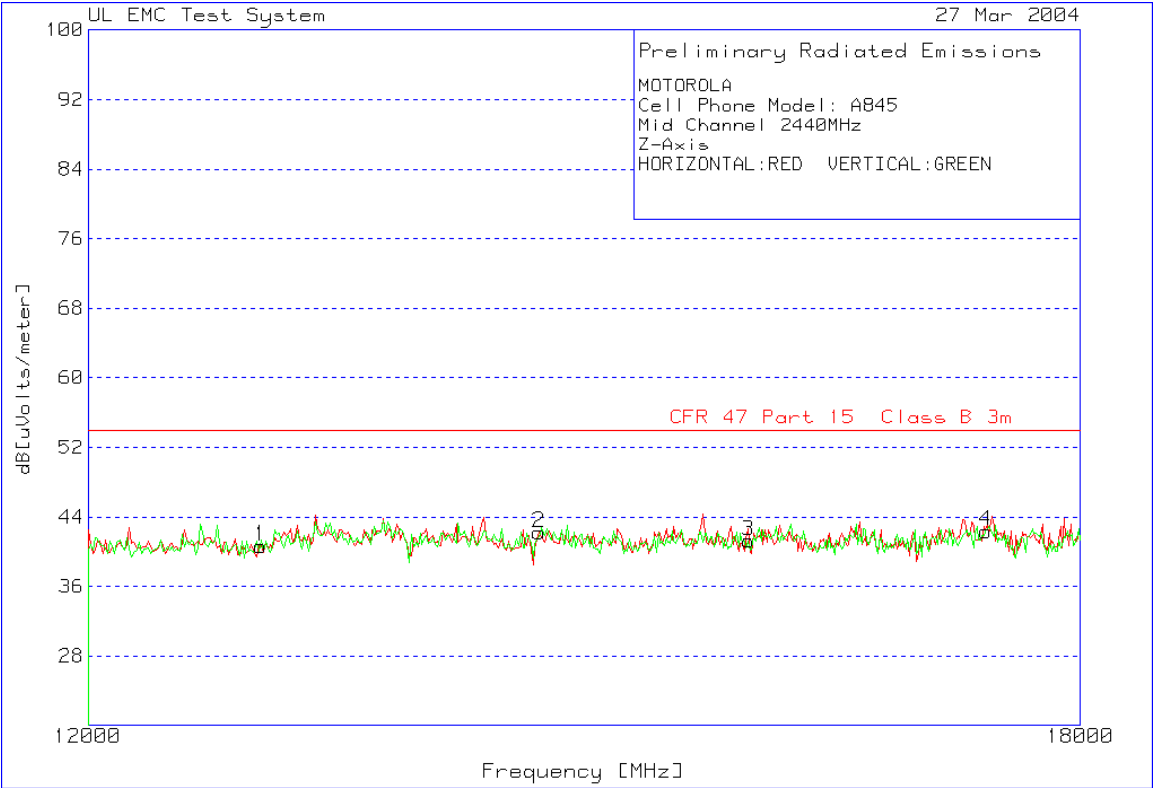
LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector



12-18 GHz Mid Channel Dual Polarization Y

MOTOROLA Cell Phone Model: A845 Mid Channel 2440MHz Y-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain Factor [dB]	Loss Factor [dB]	Transducer Level dB[uVolts/meter]	Limit 1	Margin 1[c	Height [cm] Polarity
Horizontal 12000 - 18000MHz									
1	13214.43	49.49	pk	-45.5	39.8	43.79	54	-10.21	101 Horz
2	16004.01	45.05	pk	-41.7	39.9	43.25	54	-10.75	101 Horz
Vertical 12000 - 18000MHz									
3	14801.6	45.2	pk	-42.9	39.8	42.1	54	-11.9	101 Vert
4	17398.8	43.76	pk	-40.9	40.1	42.96	54	-11.04	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									

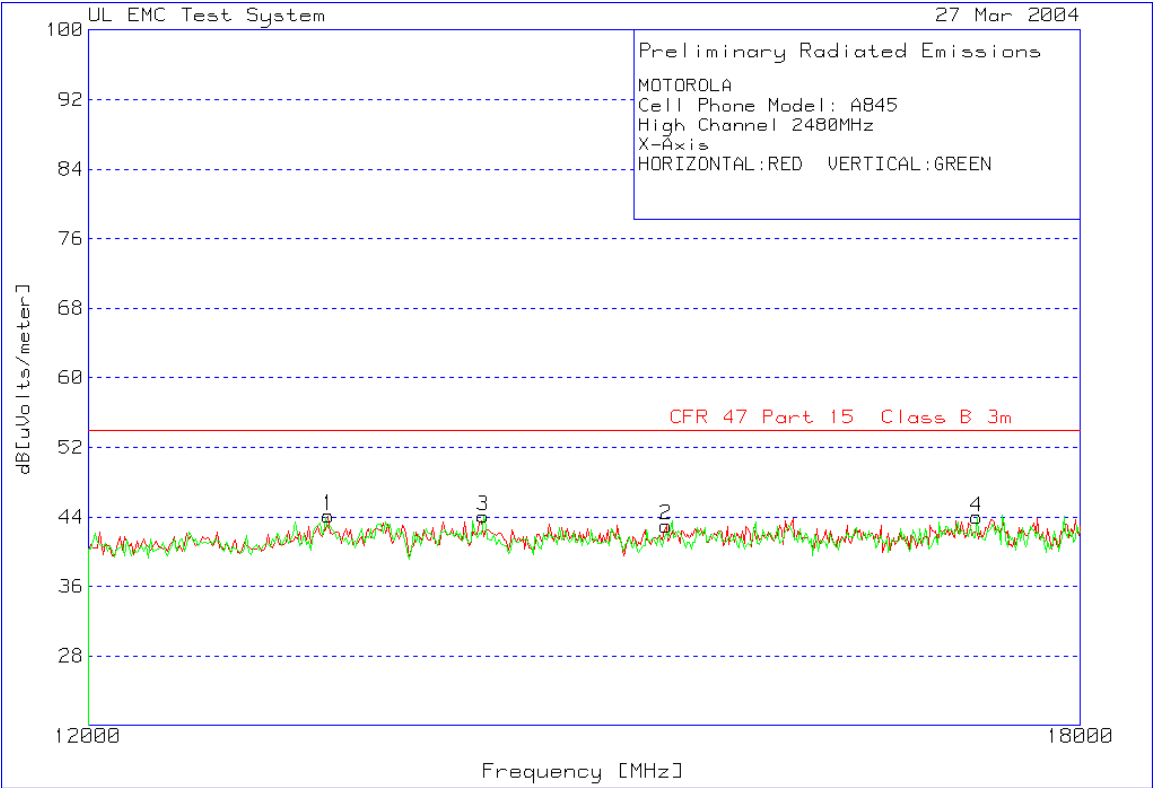


12-18 GHz Mid Channel Dual Polarization Z

MOTOROLA Cell Phone Model: A845 Mid Channel 2440MHz Z-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB]	Limit 1 [dB]	Margin 1 [dB]	Height [cm] Polarity
Horizontal 12000 - 18000MHz									
1	12877.76	48.78	pk	-47.8	39.7	40.68	54	-13.32	101 Horz
2	14428.86	45.69	pk	-43.3	39.8	42.19	54	-11.81	101 Horz
Vertical 12000 - 18000MHz									
3	15715.43	43.55	pk	-42.3	40	41.25	54	-12.75	101 Vert
4	17314.63	44.18	pk	-41.9	40.1	42.38	54	-11.62	101 Vert

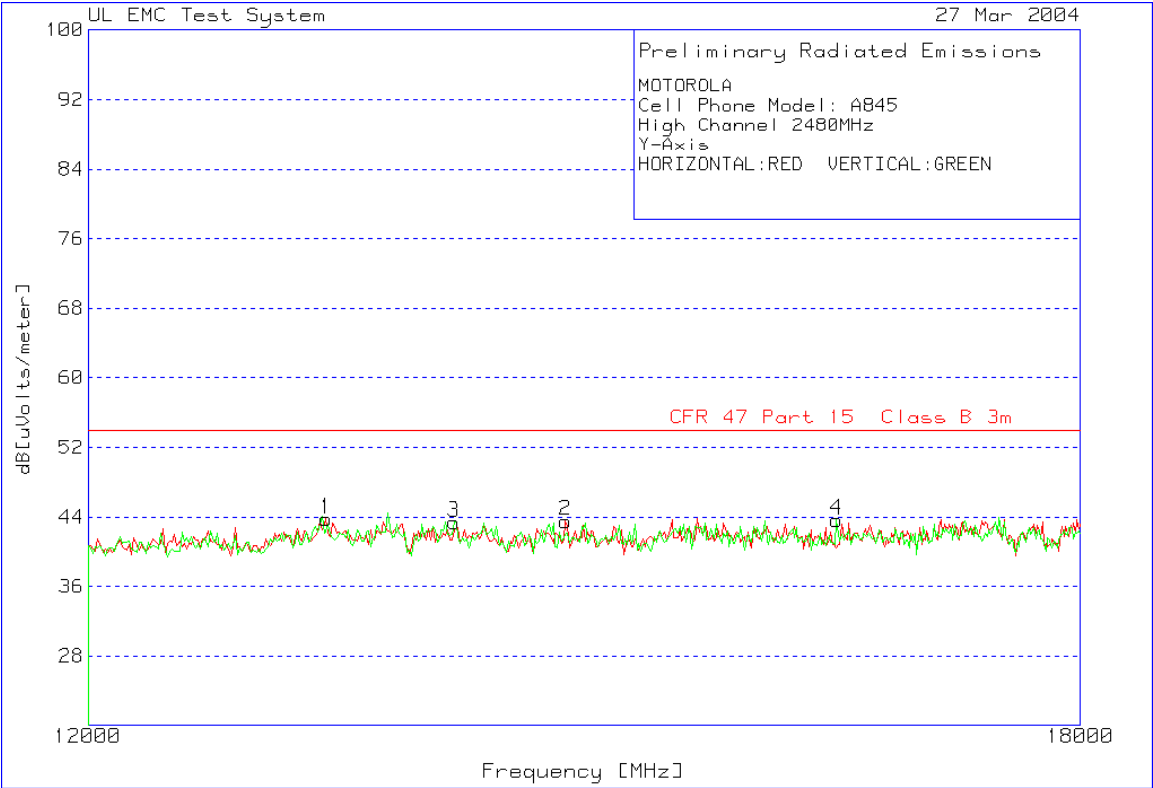
LIMIT 1: CFR 47 Part 15 Class B 3m
 LIMIT 2: NONE
 LIMIT 3: NONE
 LIMIT 4: NONE
 LIMIT 5: NONE
 LIMIT 6: NONE

pk - Peak detector
 qp - Quasi-Peak detector
 av - Average detector
 avlg - Average log detector
 avem - EMI Average detector



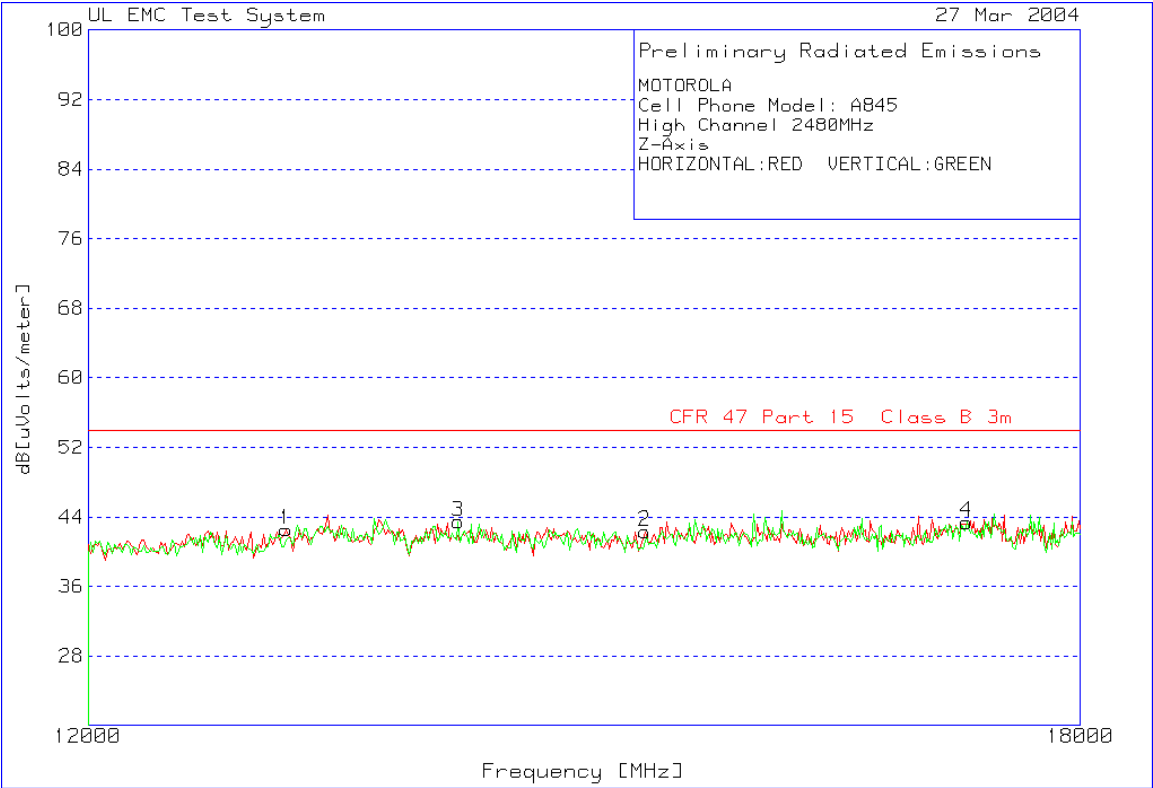
18-25 GHz High Channel Dual Polarization X

MOTOROLA Cell Phone Model: A845 High Channel 2480MHz X-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB(uVolts/meter)]	Limit 1	Margin 1[c]	Height [cm] Polarity
Horizontal 18000 - 25000MHz									
1	18799.6	72.14	pk	-60.5	40.1	51.74	54	-2.26	101 Horz
2	24719.44	63.73	pk	-58.6	40.3	45.43	54	-8.57	101 Horz
Vertical 18000 - 25000MHz									
3	19388.78	70.94	pk	-60.6	40.3	50.64	54	-3.36	101 Vert
4	24621.24	64.75	pk	-59	40.3	46.05	54	-7.95	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									



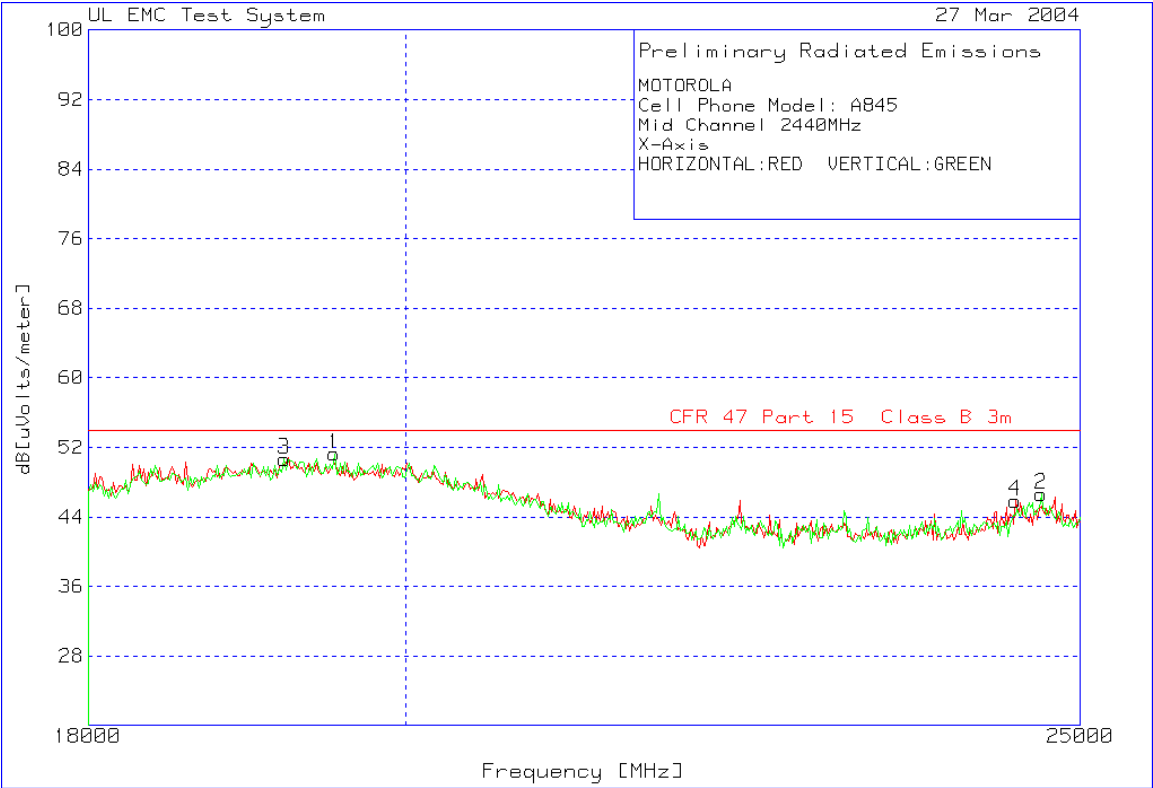
18-25 GHz High Channel Dual Polarization Y

MOTOROLA Cell Phone Model: A845 High Channel 2480MHz Y-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c]	Height [cm] Polarity
Horizontal 18000 - 25000MHz									
1	19430.86	71.19	pk	-60.7	40.3	50.79	54	-3.21	101 Horz
2	24452.91	63.85	pk	-58.6	40.3	45.55	54	-8.45	101 Horz
Vertical 18000 - 25000MHz									
3	19220.44	72.59	pk	-60.8	40.3	52.09	54	-1.91	101 Vert
4	24635.27	65.8	pk	-58.9	40.3	47.2	54	-6.8	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									



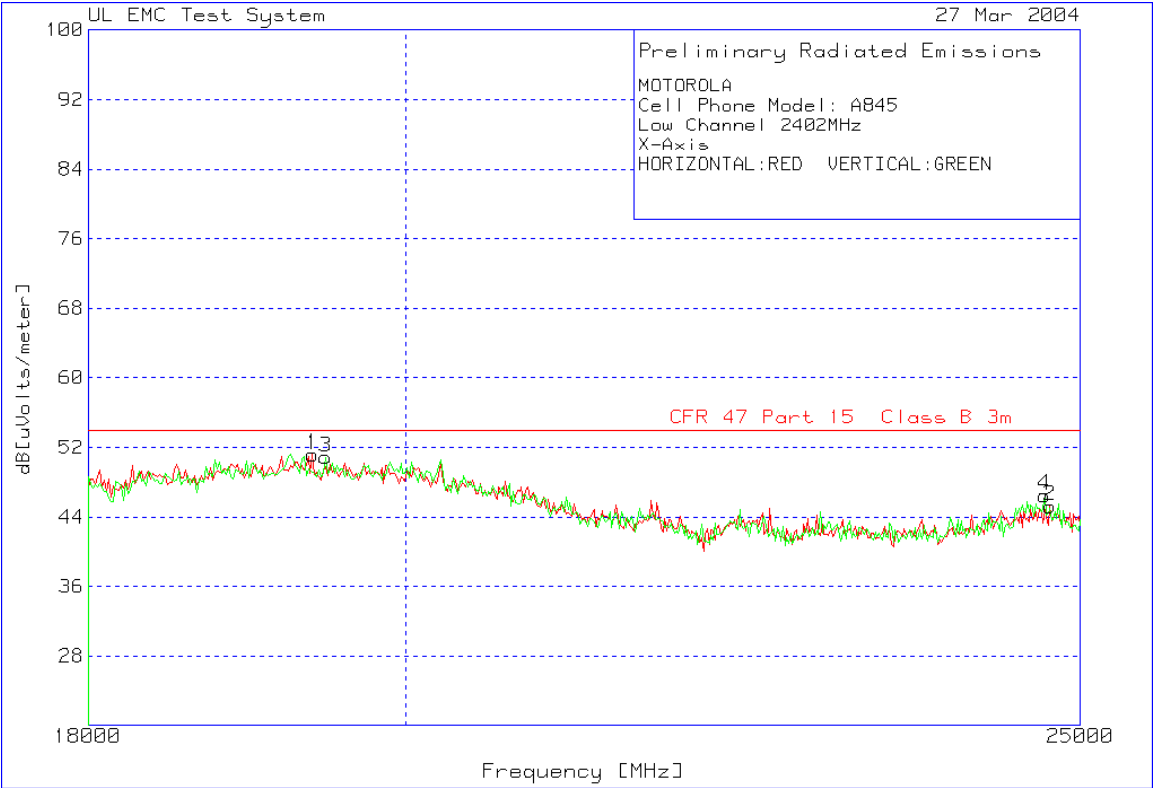
18-25 GHz High Channel Dual Polarization Z

MOTOROLA Cell Phone Model: A845 High Channel 2480MHz Z-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB]	Limit 1 [dB]	Metric	Margin 1[c Height [cn Polarity]
Horizontal 18000 - 25000MHz									
1	19374.75	70.82	pk	-60.7	40.3	50.42	54	-3.58	101 Horz
2	24747.5	63.3	pk	-58.6	40.3	45	54	-9	101 Horz
Vertical 18000 - 25000MHz									
3	19543.09	71.11	pk	-61	40.3	50.41	54	-3.59	101 Vert
4	24677.36	64.39	pk	-58.7	40.3	45.99	54	-8.01	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									



18-25 GHz Mid Channel Dual Polarization X

MOTOROLA Cell Phone Model: A845 Mid Channel 2440MHz X-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Loss Factor [dB]	Transducer Factor [dB]	Level dB[uVolts/meter]	Limit 1	Margin 1[c	Height [cm] Polarity
Horizontal 18000 - 25000MHz									
4	24466.93	64.16	pk	-58.6	40.3	45.86	54	-8.14	101 Horz
Vertical 18000 - 25000MHz									
1	19529.06	71.95	pk	-61	40.3	51.25	54	-2.75	101 Vert
2	24677.36	65.03	pk	-58.7	40.3	46.63	54	-7.37	101 Vert
3	19206.41	71.15	pk	-60.8	40.3	50.65	54	-3.35	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									



18-25 GHz Low Channel Dual Polarization X

MOTOROLA Cell Phone Model: A845 Low Channel 2402MHz X-Axis HORIZONTAL:RED VERTICAL:GREEN									
Marker Number	Test Frequency [MHz]	Meter Reading [dB(uV)]	Detector Type	Gain/Factor [dB]	Loss/Factor [dB]	Transducer Level [dB]	Limit 1 [dB]	Margin 1 [dB]	Height [cm] Polarity
Horizontal 18000 - 25000MHz									
1	19388.78	71.46	pk	-60.6	40.3	51.16	54	-2.84	101 Horz
2	24747.5	63.54	pk	-58.6	40.3	45.24	54	-8.76	101 Horz
Vertical 18000 - 25000MHz									
3	19472.95	71.47	pk	-60.9	40.3	50.87	54	-3.13	101 Vert
4	24705.41	64.77	pk	-58.6	40.3	46.47	54	-7.53	101 Vert
LIMIT 1: CFR 47 Part 15 Class B 3m LIMIT 2: NONE LIMIT 3: NONE LIMIT 4: NONE LIMIT 5: NONE LIMIT 6: NONE									
pk - Peak detector qp - Quasi-Peak detector av - Average detector avlg - Average log detector avem - EMI Average detector									

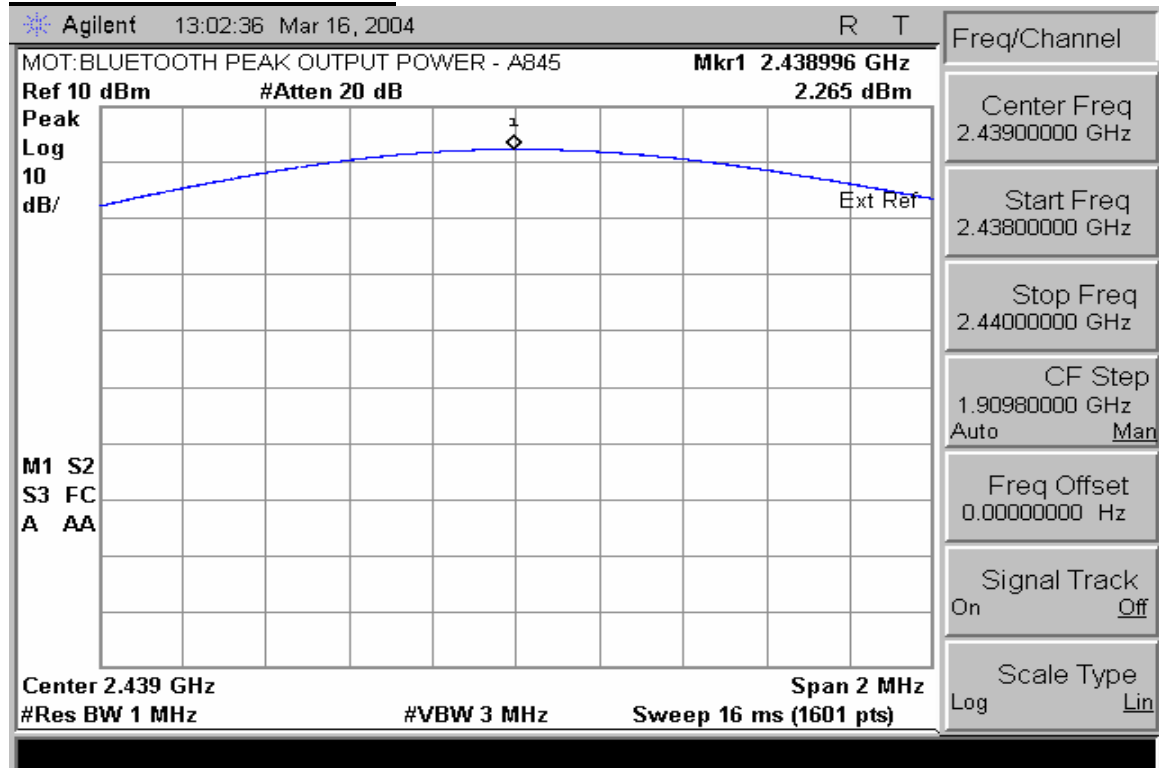
PEAK OUTPUT POWER

CFR 47 Part 15.247

Measurement Procedure

The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results



Peak Output Power

BAND-EDGE COMPLIANCE OF RF CONDUCTED EMISSIONS

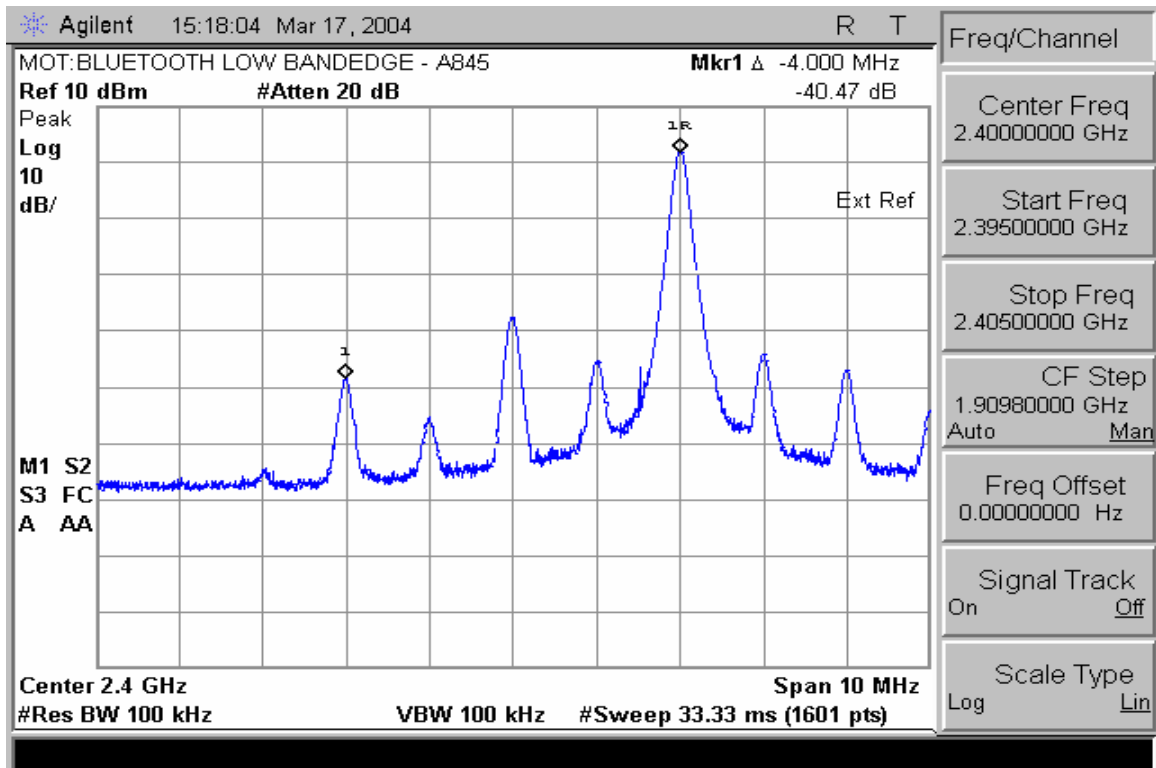
CFR 47 Part 15.247

Measurement Procedure

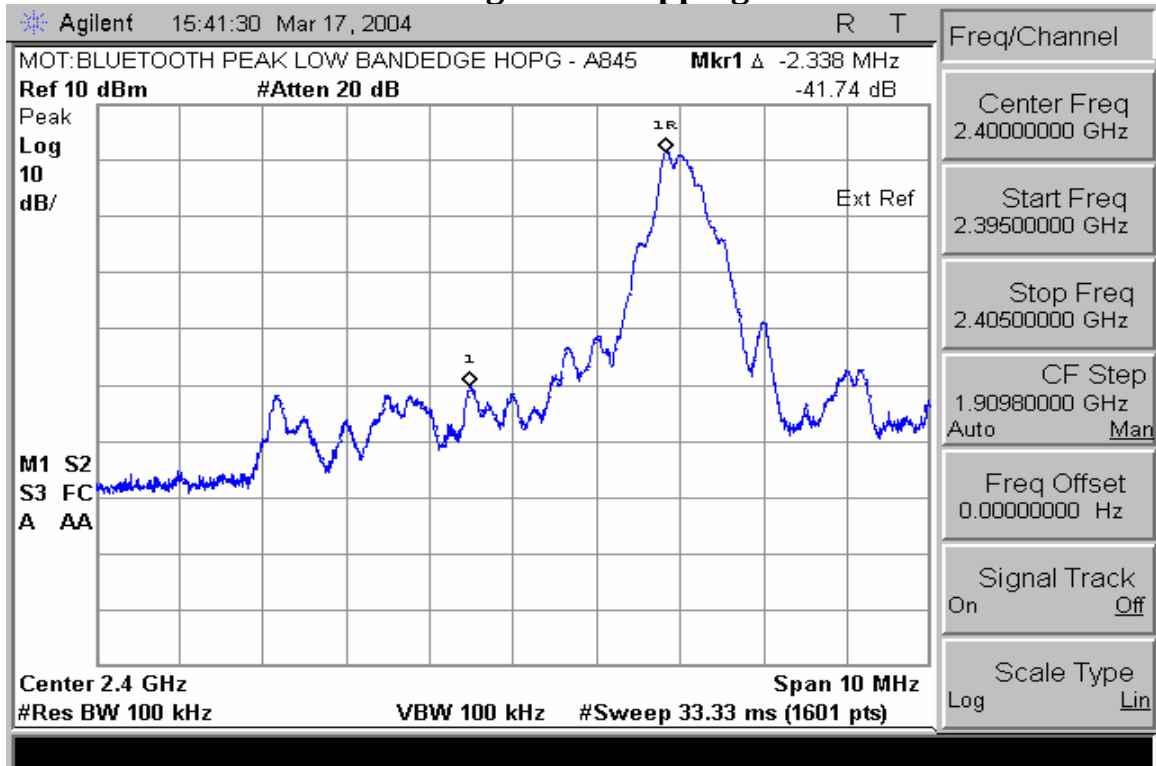
The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results

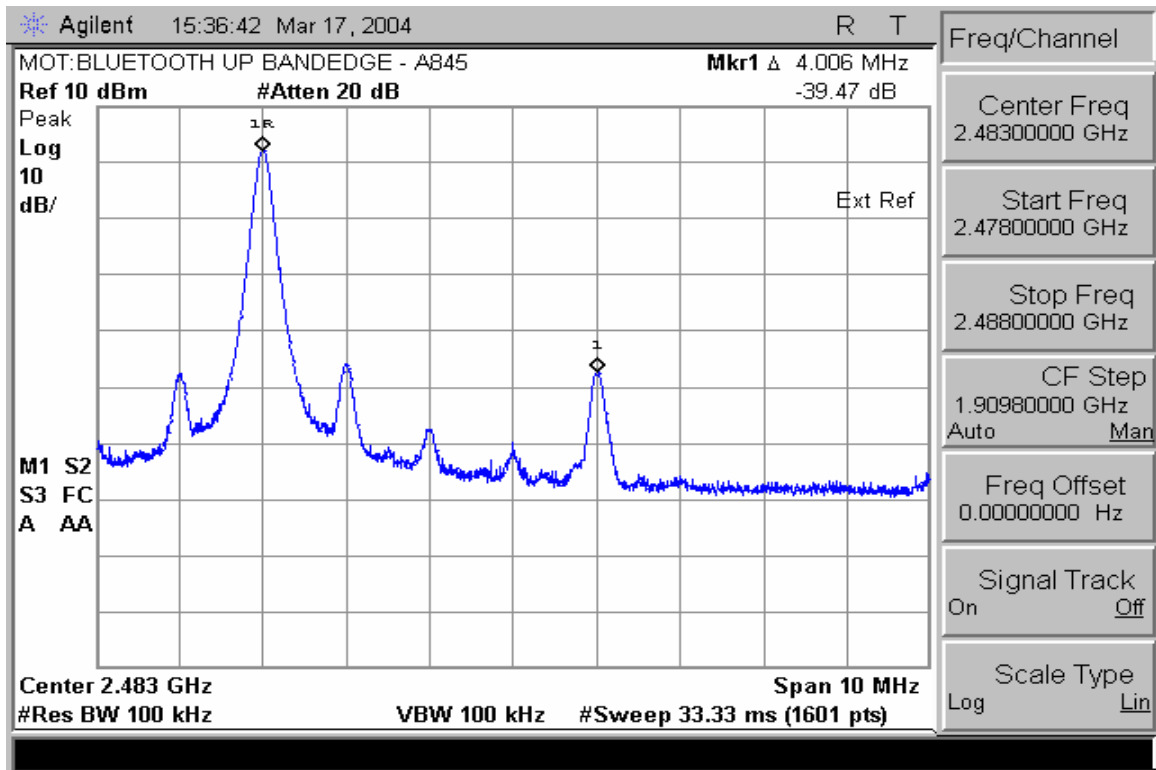
See Attached:



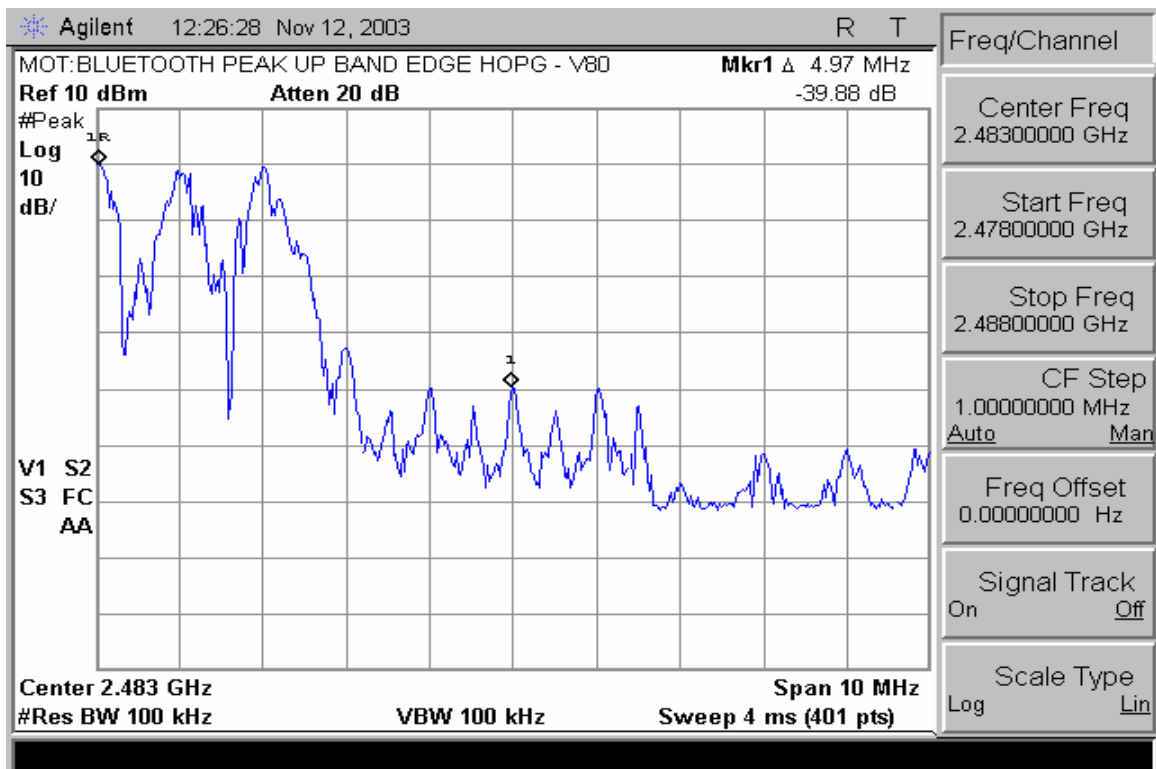
Low Band Edge with Hopping Disabled



Low Band Edge with Hopping Enabled



High Band Edge with Hopping Disabled



High Band Edge with Hopping Enabled

SPURIOUS RF CONDUCTED EMISSIONS

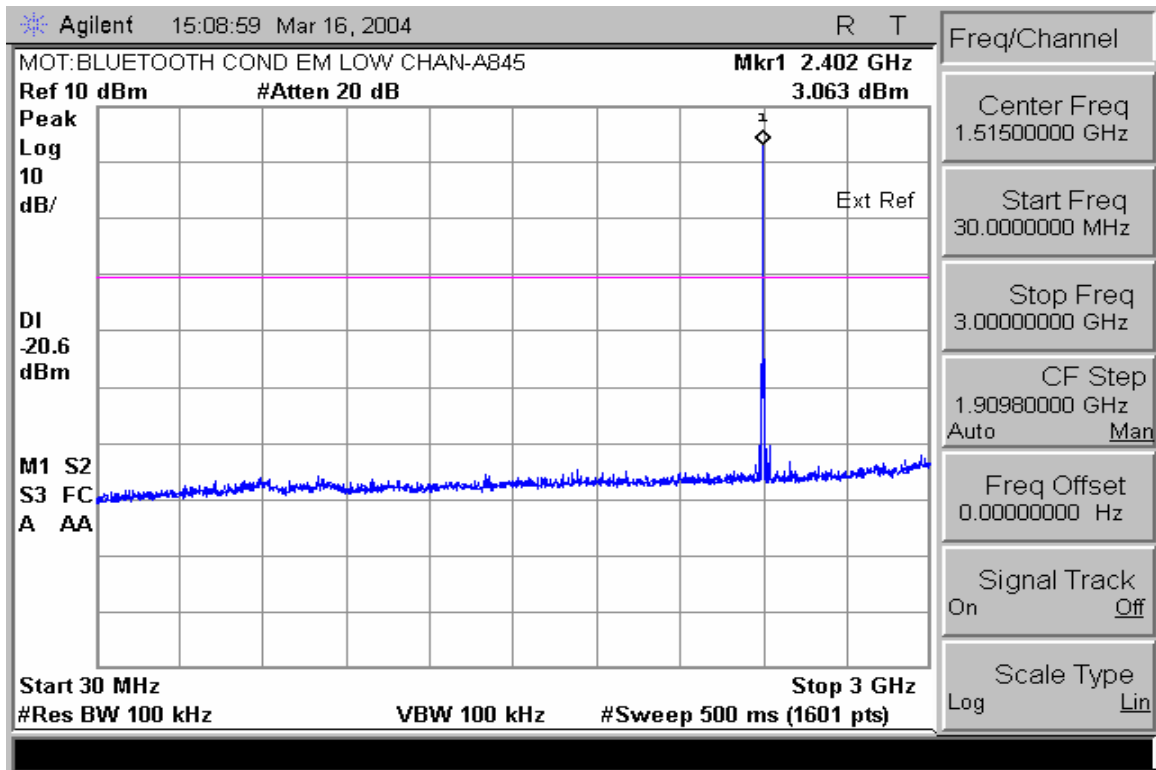
CFR 47 Part 15.247

Measurement Procedure

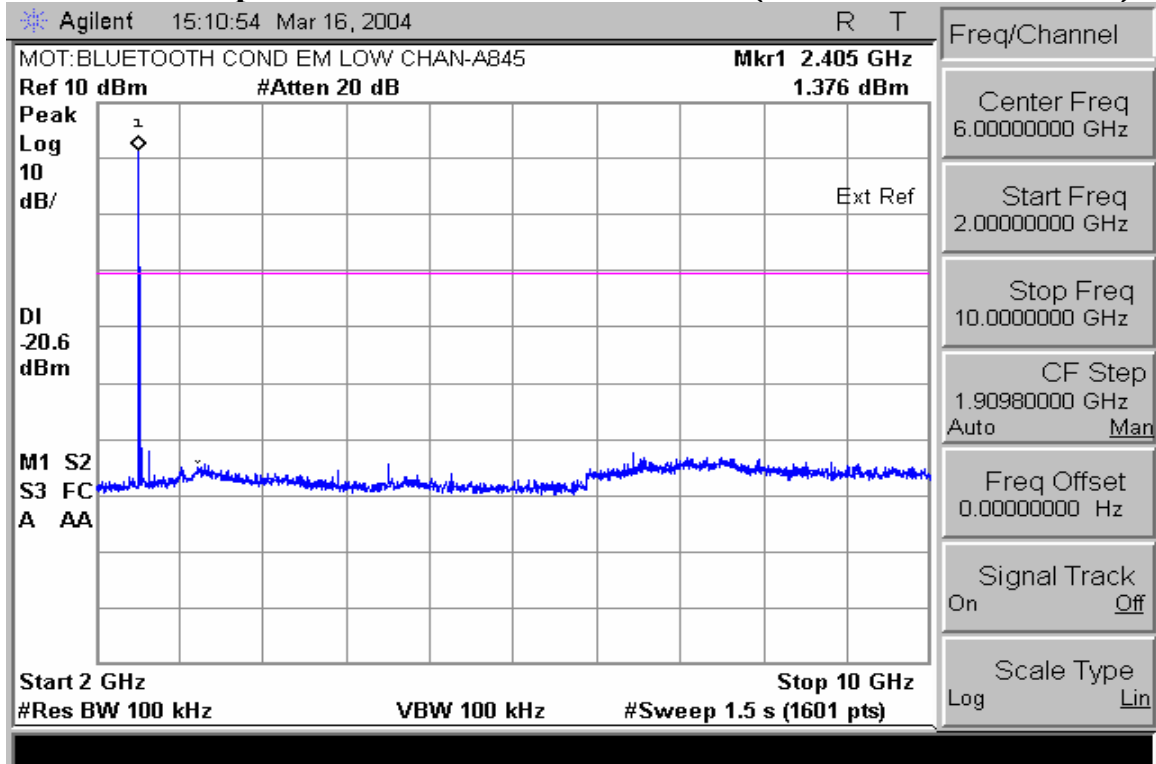
The RF output port of the Equipment-Under-Test is directly coupled to the input of the EMC analyzer through a specialized RF connector and a 10dB passive attenuator. A fully charged battery was used for the supply voltage.

Measurement Results

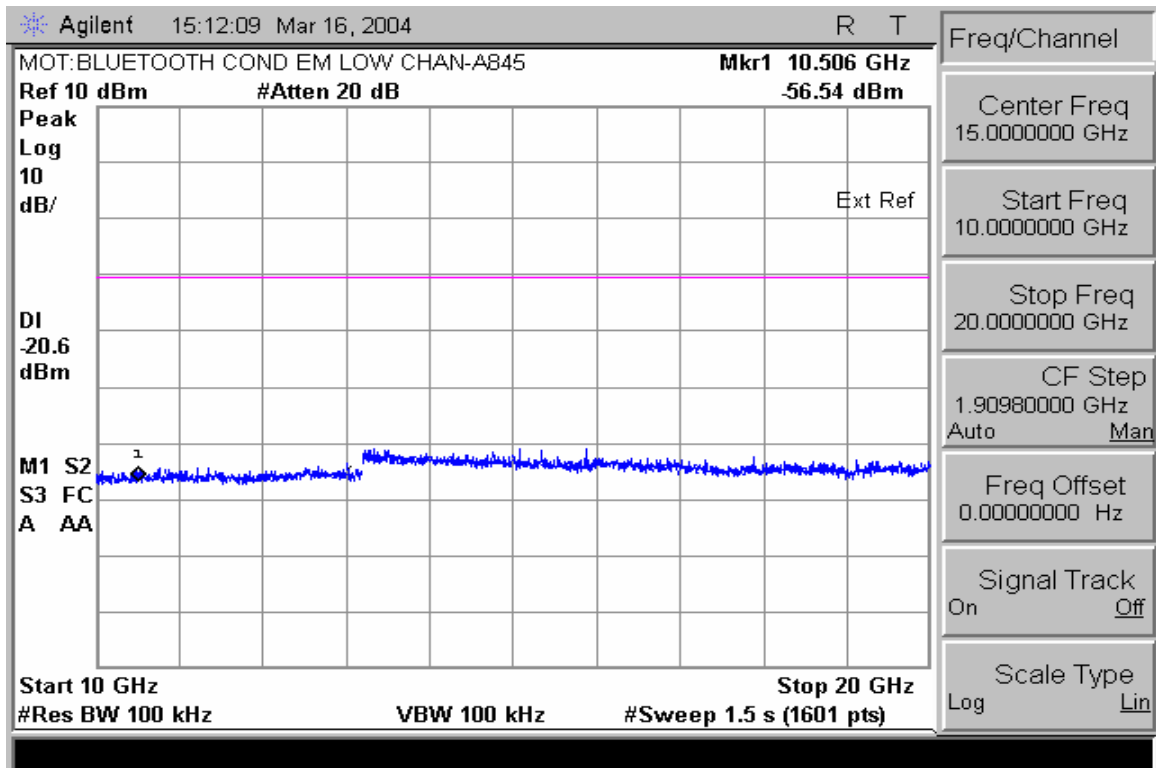
See attached:



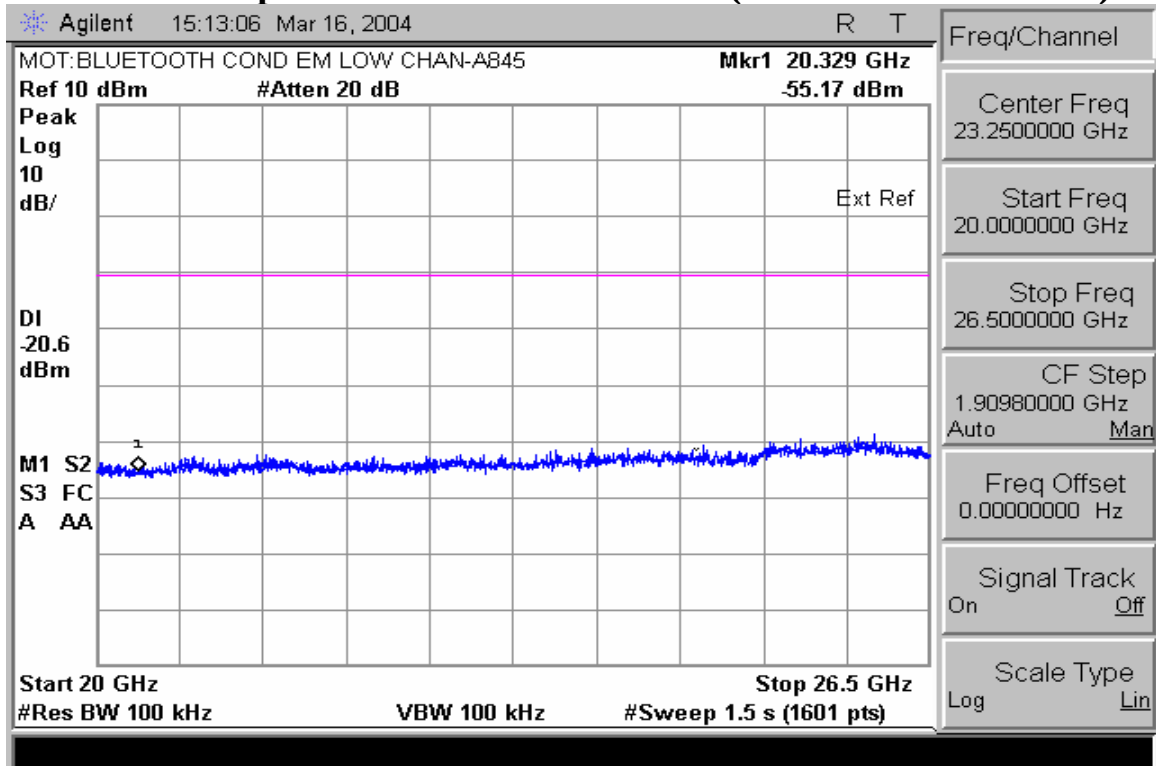
Conducted Spurious Emissions 30-3000MHz (Low Channel Enabled)



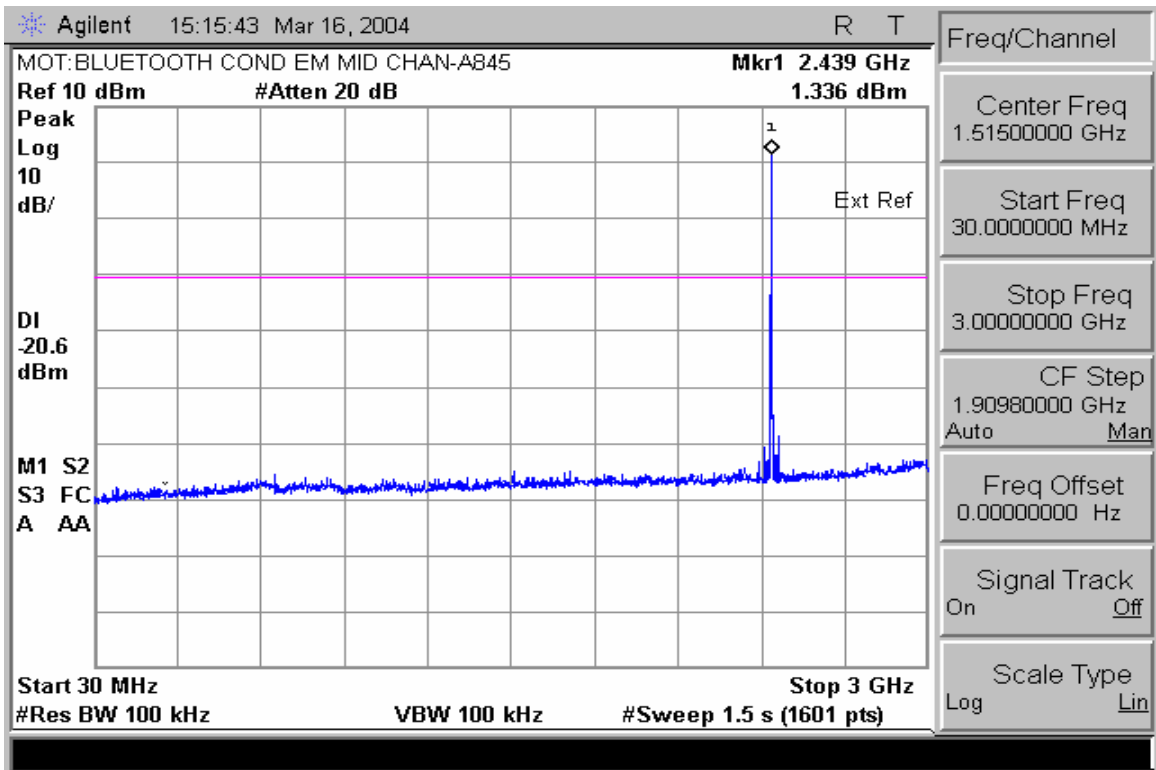
Conducted Spurious Emissions 2-10GHz (Low Channel Enabled)



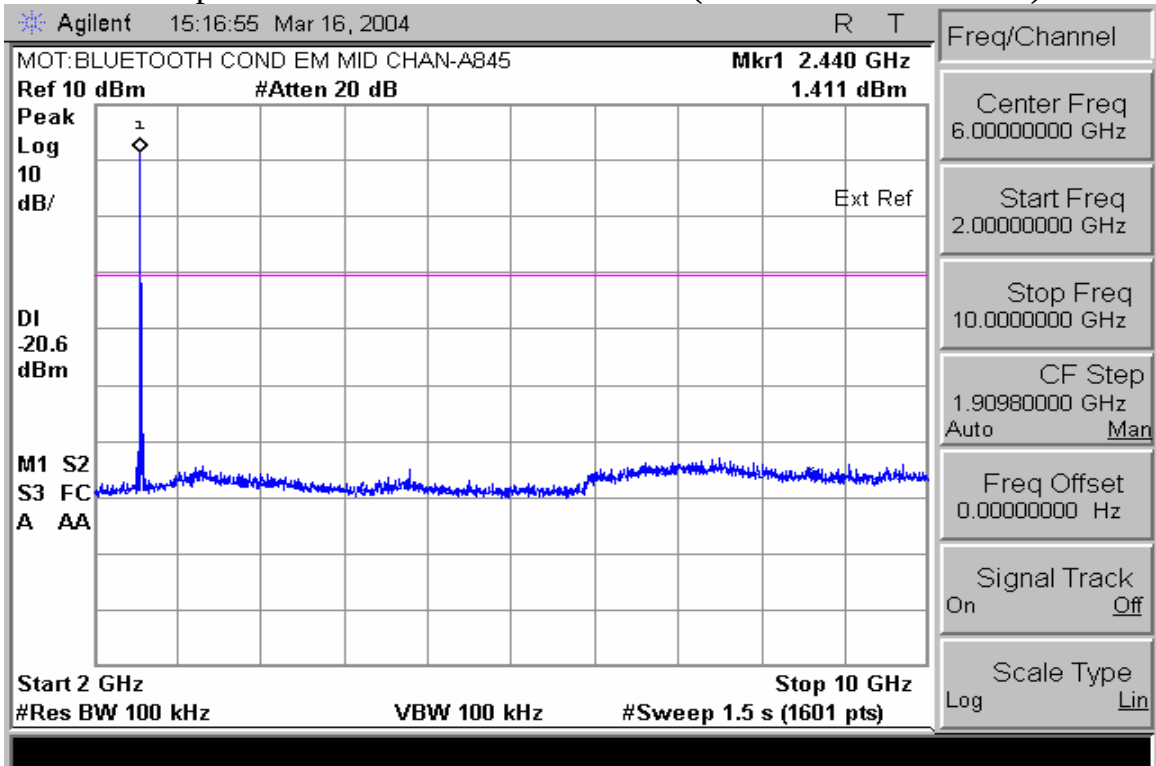
Conducted Spurious Emissions 10-20GHz (Low Channel Enabled)



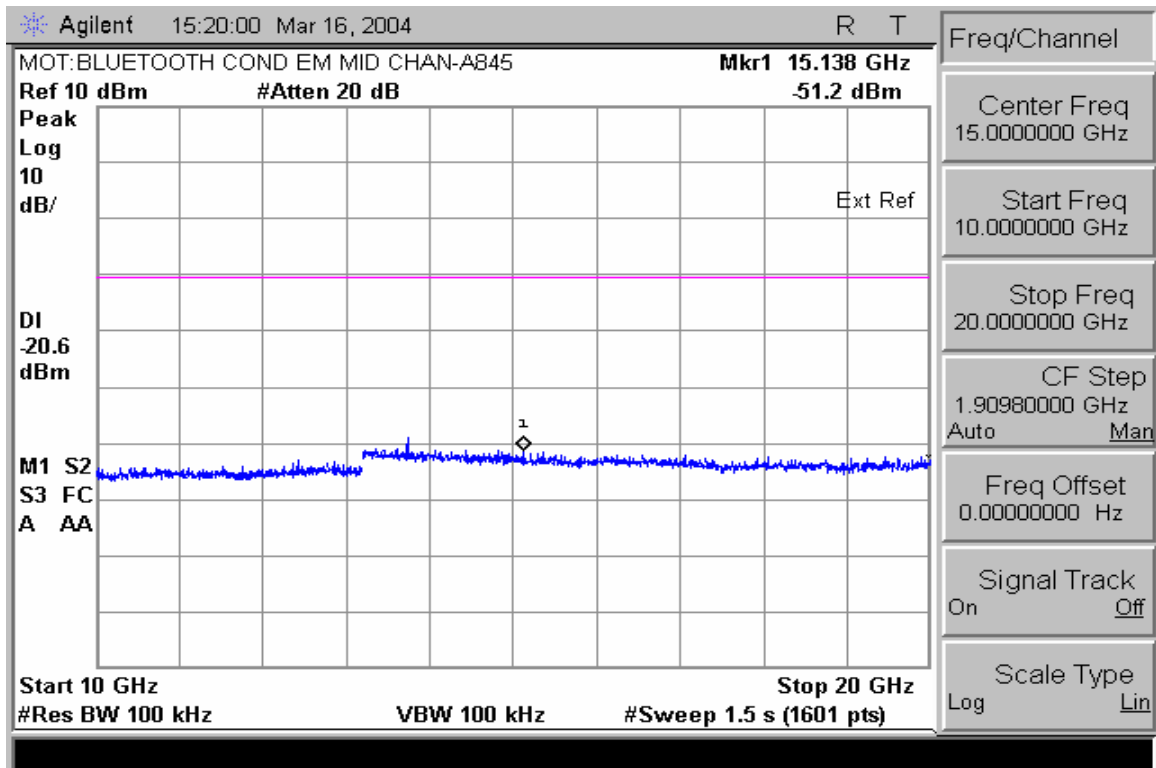
Conducted Spurious Emissions 20-26.5GHz (Low Channel Enabled)



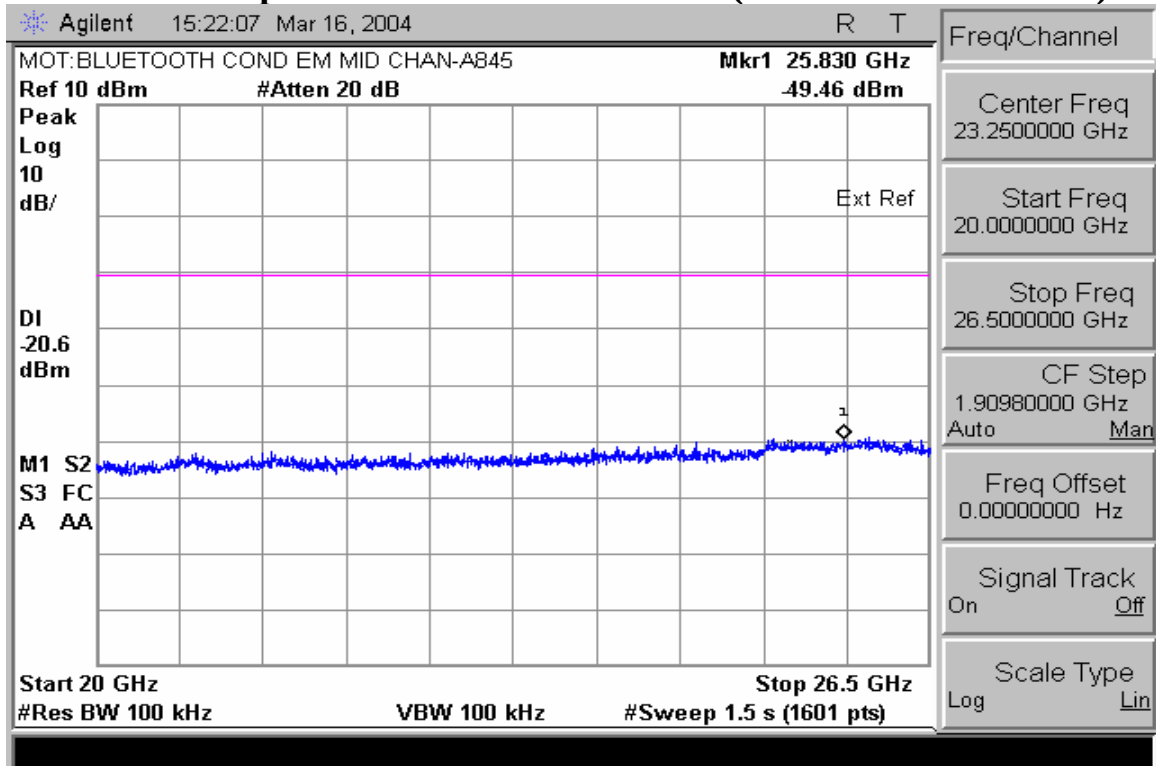
Conducted Spurious Emissions 30-3000MHz (Mid Channel Enabled)



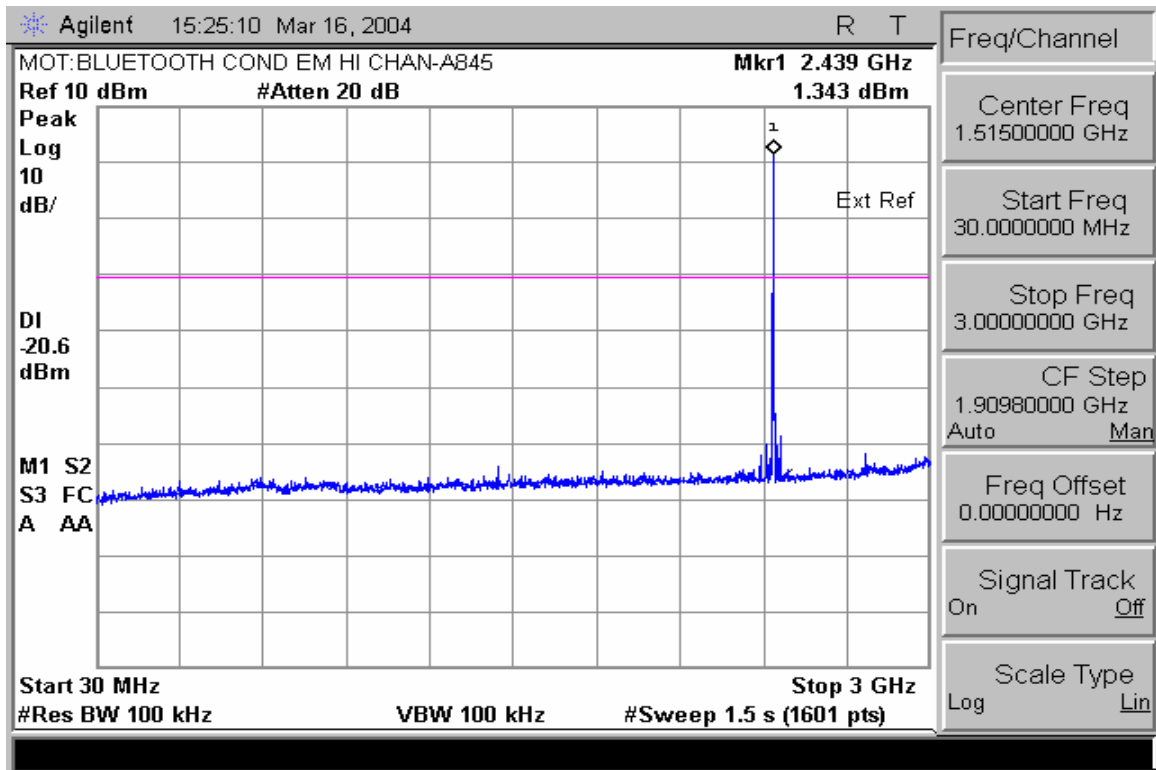
Conducted Spurious Emissions 2-10GHz (Mid Channel Enabled)



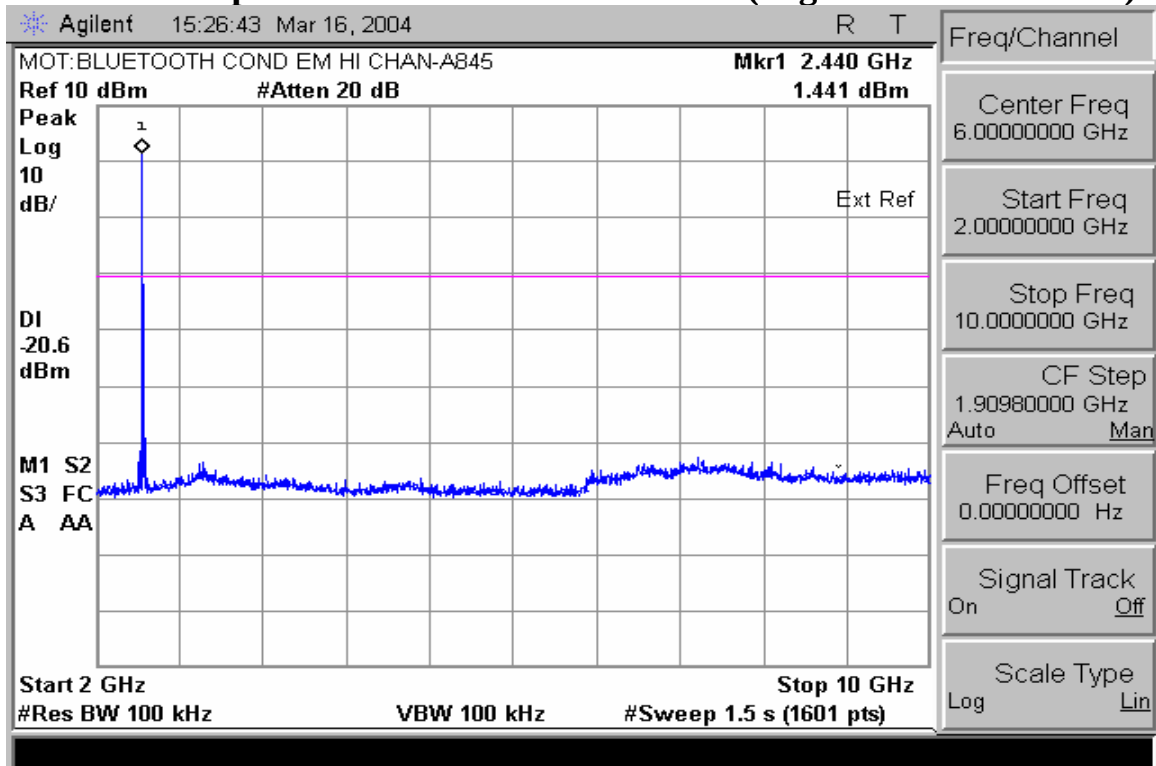
Conducted Spurious Emissions 10-20GHz (Mid Channel Enabled)



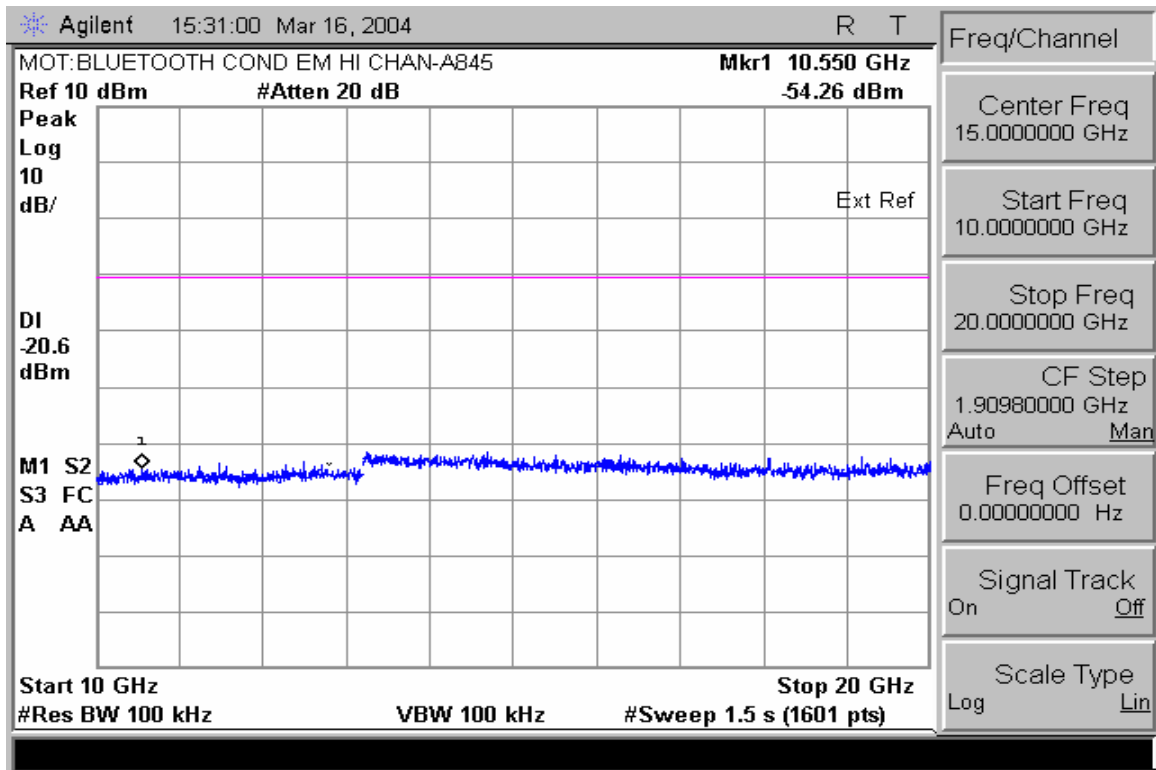
Conducted Spurious Emissions 20-26.5GHz (Mid Chan Enabled)



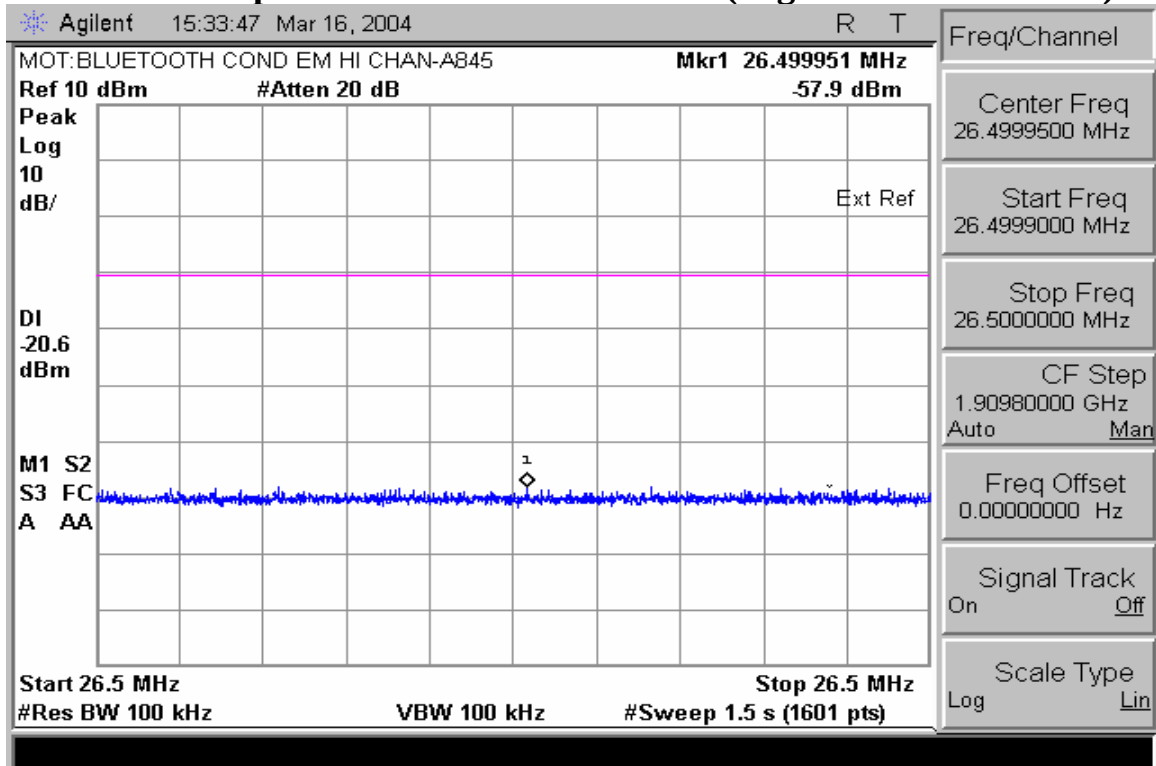
Conducted Spurious Emissions 30-3000MHz (High Channel Enabled)



Conducted Spurious Emissions 2-10GHz (High Channel Enabled)



Conducted Spurious Emissions 10-20GHz (High Channel Enabled)



Conducted Spurious Emissions 20-26.5GHz (High Chan Enabled)

End of Test Report