



FCC CFR47 PART 15 SUBPART C

**CLASS II PERMISSIVE CHANGE
BLUETOOTH LOW ENERGY REPORT***

FOR

802.11a/g/n/ac WLAN + Bluetooth PCI-E Custom Combination Card

MODEL NUMBER: BCM94360CD

**FCC ID: QDS-BRCM1070
IC: 4324A-BRCM1070**

REPORT NUMBER: 14U17358-5, Revision A

ISSUE DATE: MAY 05, 2014

Prepared for

**BROADCOM CORPORATION
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Prepared by

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*Testing was performed based on client's test plan, file's name "X51 New Host J78
Regression Radiated Test Plan_4_2_14"



NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	05/02/14	Initial Issue	F. Ibrahim
A	05/05/14	Revised sections 7.2 and 8.1 Integrated DCCF numbers into the tabular data	F. Ibrahim

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BROADCOM CORPORATION
190 MATHILDA PLACE
SUNNYVALE, CA 94086, U.S.A.

EUT DESCRIPTION: 802.11a/g/n/ac WLAN + Bluetooth PCI-E Custom Combination Card

MODEL: BCM94360CD

SERIAL NUMBER: C862436006XF6RY0Y

DATE TESTED: April 02 to May 02, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:



FRANK IBRAHIM
PROGRAM MANAGER
UL Verification Services Inc.

Tested By:



TOM CHEN
ENGINEER
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☒ Chamber A	☐ Chamber D
☐ Chamber B	☐ Chamber E
☐ Chamber C	☐ Chamber F

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11a/g/n/ac WLAN + Bluetooth PCI-E Custom Combination Card.

The radio module is manufactured by Broadcom.

5.2. MAXIMUM OUTPUT POWER

The measured peak power values were within ± 0.5 dB of the original values. Refer to original report number "12U14669-3" for all antenna port results.

Note: due to higher AG (6.56 dBi), the power limit is reduced by 0.56 dB, however, the original power values are passing by a margin greater than 10 dB, therefore, the EUT is claimed to still comply with the power limitation requirement.

5.3. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

The change filed under this application is the addition of the following WiFi/BT antennas:

1. Amphenol/ Molex (Host 4)

	Gain of antenna (dBi)			
	604-7572 WF1/ Bluetooth	604-7575 WF2	604-7573 WF3	604-7574 WF4
2.4-2.484 GHz	3.29	4.32	4.77	3.72
5.15-5.25 GHz	N/A	4.83	2.84	1.18
5.25-5.35 GHz	N/A	4.52	3.21	1.48
5.5-5.7 GHz	N/A	4.72	2.09	2.85
5.725-5.85 GHz	N/A	4.86	1.95	3.09

Antenna to RF ports mapping:

WF1/BT	A3
WF2	A2
WF3	A1
WF4	A0

2. Amphenol/ Molex (Host 5)

	Gain of antenna (dBi)			
	604-7827 WF1/ Bluetooth	604-7828 WF2	604-7829 WF3	604-7830 WF4
2.4-2.484 GHz	6.56	3.38	5.33	5.90
5.15-5.25 GHz	N/A	4.15	3.19	3.08
5.25-5.35 GHz	N/A	3.91	2.55	3.48
5.5-5.7 GHz	N/A	4.56	1.88	3.17
5.725-5.85 GHz	N/A	4.42	0.42	2.68

Antenna to RF ports mapping:

WF1/BT	A3
WF2	A2
WF3	A1
WF4	A0

For BT testing, the antenna with higher gain 6.56 dBi (604-7827 WF1/ Bluetooth) was selected as worst-case antenna to cover the other antenna from host 4.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was Broadcom, Ver. 5.1.0.1400

The test utility software used during testing was Broadcom Bluetooth, Ver. 1.5.2.8

5.5. WORST-CASE CONFIGURATION AND MODE

The EUT was tested as an external module installed in a test jig board connected to a host Laptop PC. The EUT was oriented in a flat orientation, similar to the orientation it would have in real installations; see setup photos for details.

For BLE testing, the antenna with higher gain 6.56 dBi (604-7827 WF1/ Bluetooth) was selected as worst-case antenna to cover the other antenna from host 4.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Laptop	Apple	MACBOOK PRO	C02H124BDV10	DoC
AC Adapter	Lite On	85W MagSafe	N/A	N/A
Adapter Board	Broadcom	BCM94331CSAD	1514447	N/A

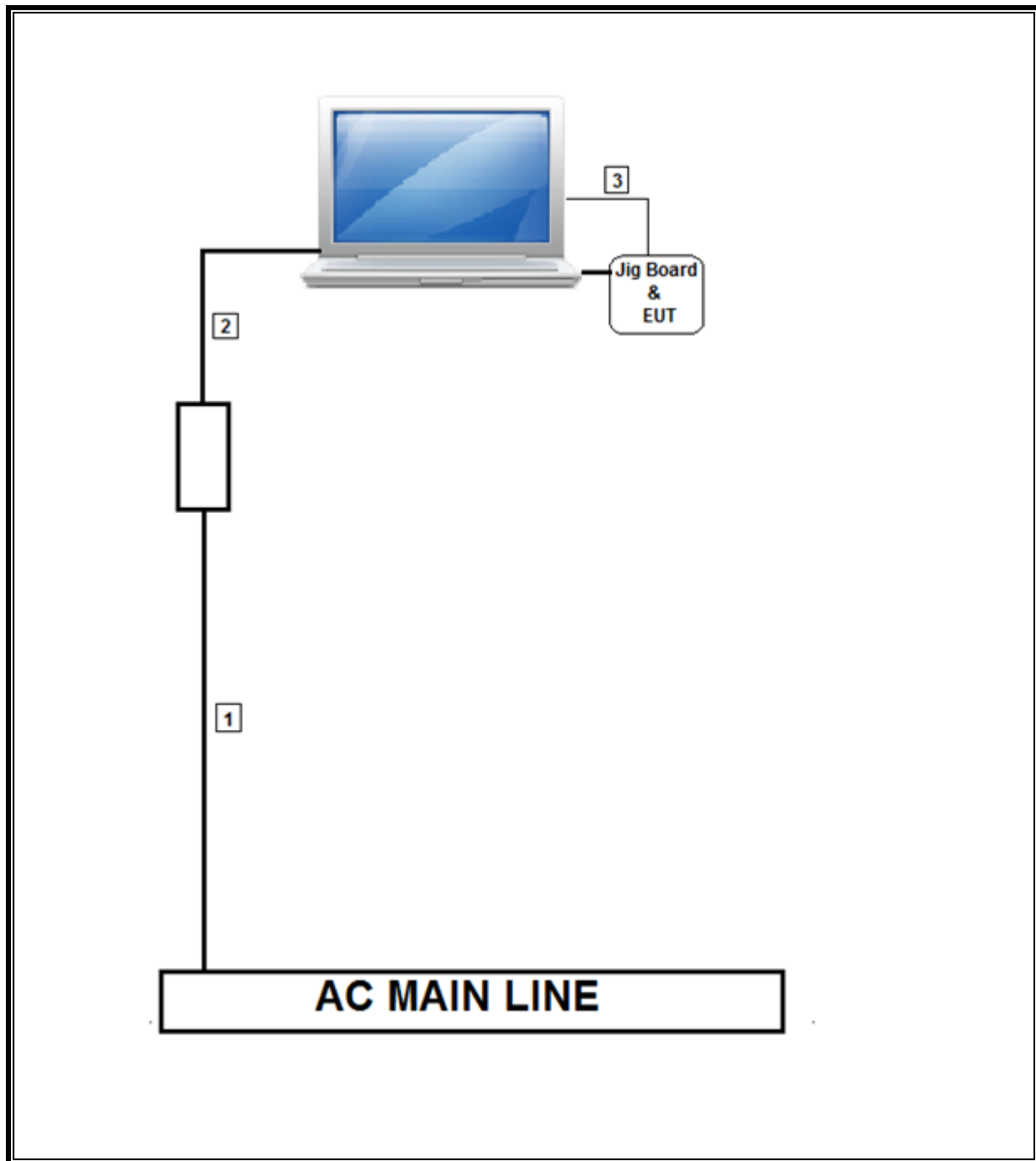
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	US 115V	Un-Shielded	1.0m	NA
2	DC	1	DC	Un-Shielded	0.8m	NA
3	USB	1	USB	Un-Shielded	0.8m	NA

TEST SETUP

The EUT was tested as an external module that installed on an USB to test JIG board connected to a host Laptop PC via USB cable. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List					
Description	Manufacturer	Model	Asset	Cal Date	Cal Due
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01161	05/07/13	05/07/14
PXA Signal Analyzer	Agilent	N9030A	T339	12/10/13	12/10/14
Horn Antenna, 1GHz-18GHz	ETS Lindgren	3117	T119	01/06/14	01/06/15
Antenna, Horn, 18 GHz	EMCO	3115	C01218	01/18/14	01/18/15
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/13	11/14/14
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	C01016	08/22/13	08/22/14
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C00749	10/19/13	10/19/14
Peak Power Meter	Agilent / HP	N1911A	T377	04/22/13	04/22/15
Power Meter Sensor	Agilent / HP	N1921A	T309	12/12/13	12/12/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/16/14	01/16/15
5GHz Low Pass Filter	Micro-Tronics	LPS17541	F00219	06/26/13	06/26/14
3GHz High Pass Filter	Micro-Tronics	HPS17542	F00222	06/26/13	06/26/14
6GHz High Pass Filter	Micro-Tronics	HPM17543	F00224	06/26/13	06/26/14

7. ANTENNA PORT TEST RESULTS

7.1. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

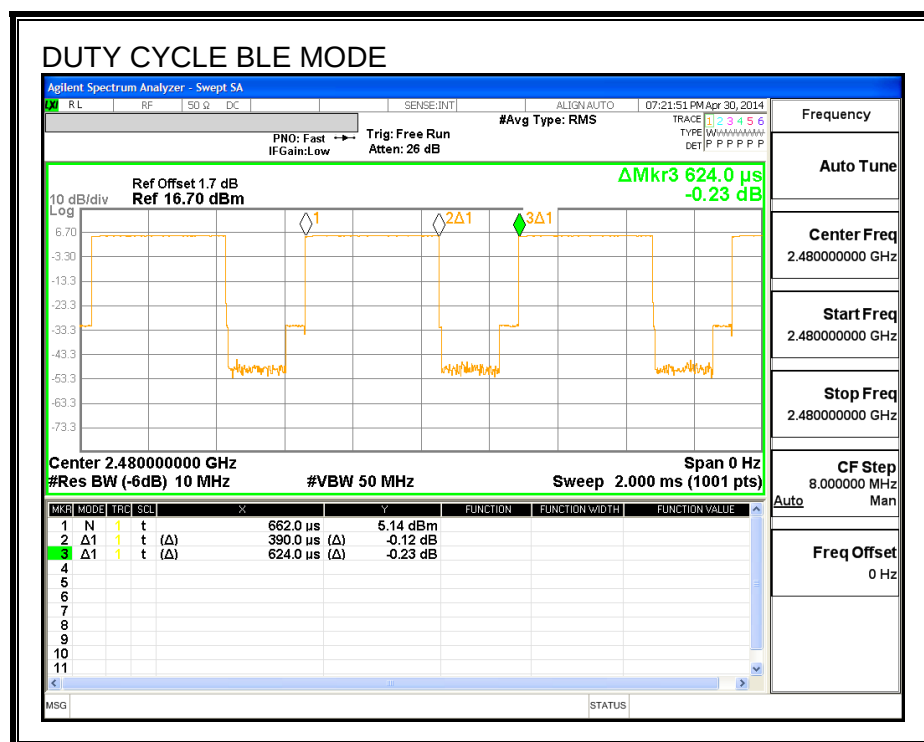
None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

7.2. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
BLE	0.390	0.624	0.625	62.50%	2.04



7.3. MEASUREMENT METHODS

Output Power: KDB 558074 D01 v03r01, Section 9.1.1.

Out-of-band emissions in non-restricted bands: KDB 558074 D01 v03r01, Section 11.0.

Out-of-band emissions in restricted bands: KDB 558074 D01 v03r01, Section 12.1.

Band-edge: KDB 558074 D01 v03r01, Section 13.3.1.

Band-edge: KDB 558074 D01 v03r01, Section 13.3.3.

8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

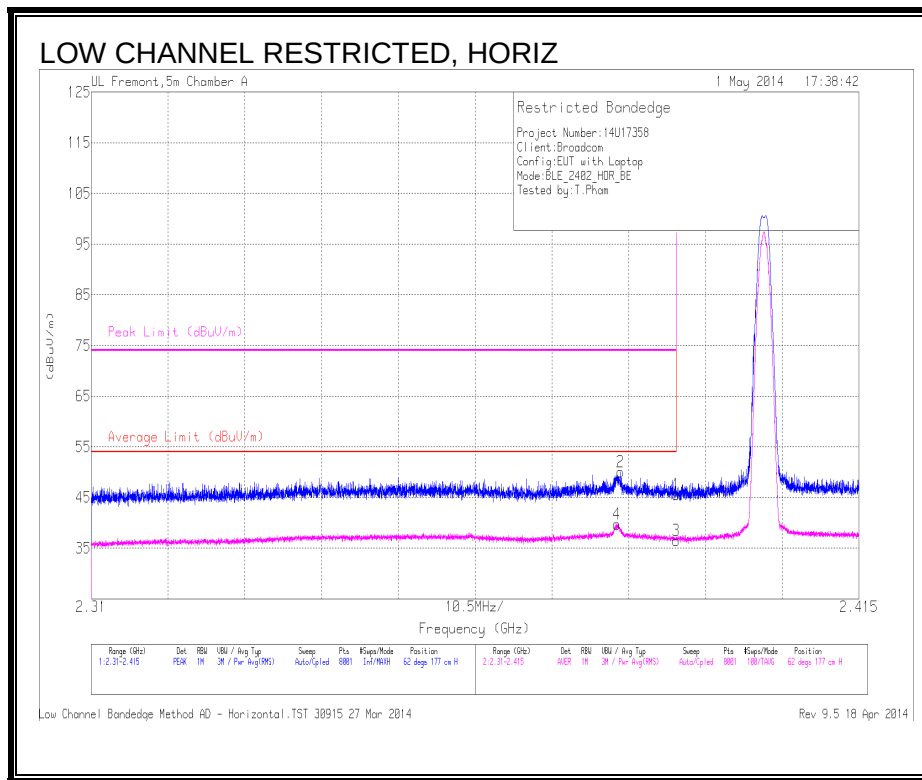
FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

8.2. TRANSMITTER ABOVE 1 GHz, BLUETOOTH LOW ENERGY

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



Trace Markers

Marker	Freq (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	37.73	PK	32.2	-24.4	-	45.53	-	-	74	-28.47	62	177	H
2	* 2.382	41.39	PK	32.2	-23.6	-	49.99	-	-	74	-24.01	62	177	H
3	* 2.39	28.76	RMS	32.2	-24.4	2.04	38.60	54	-15.40	-	-	62	177	H
4	* 2.382	31.18	RMS	32.2	-23.6	2.04	41.82	54	-12.18	-	-	62	177	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

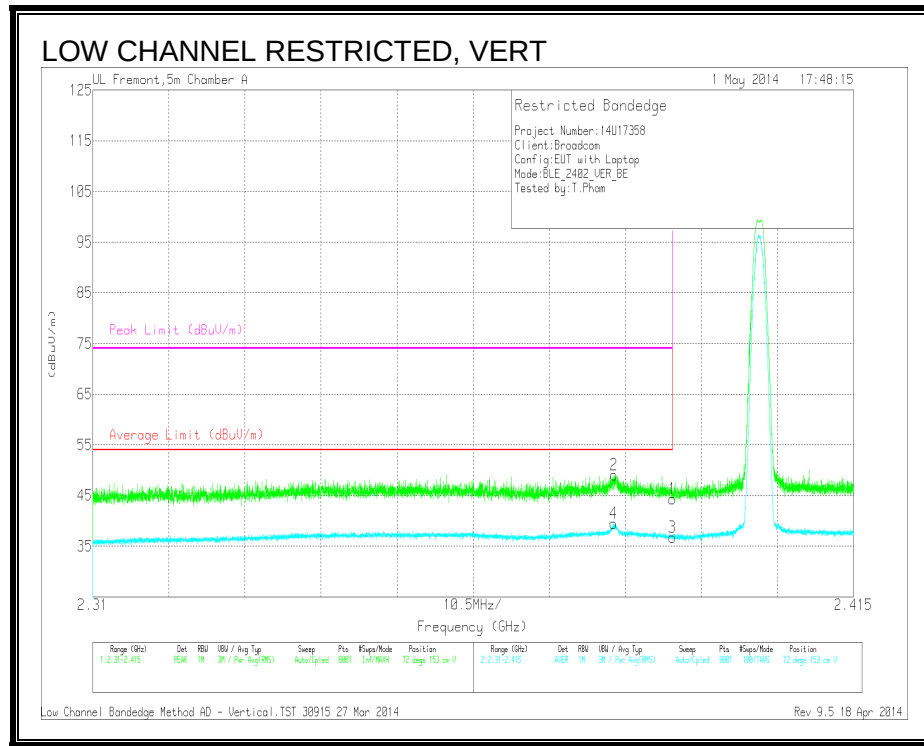
PK - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - Horizontal.TST 30915 27 Mar 2014

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RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



Trace Markers

Marker	Freq (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	36.57	PK	32.2	-24.4	-	44.37	-	-	74	-29.63	72	153	V
2	* 2.382	40.44	PK	32.2	-23.6	-	49.04	-	-	74	-24.96	72	153	V
3	* 2.39	28.97	RMS	32.2	-24.4	2.04	38.81	54	-15.19	-	-	72	153	V
4	* 2.382	30.9	RMS	32.2	-23.6	2.04	41.54	54	-12.46	-	-	72	153	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

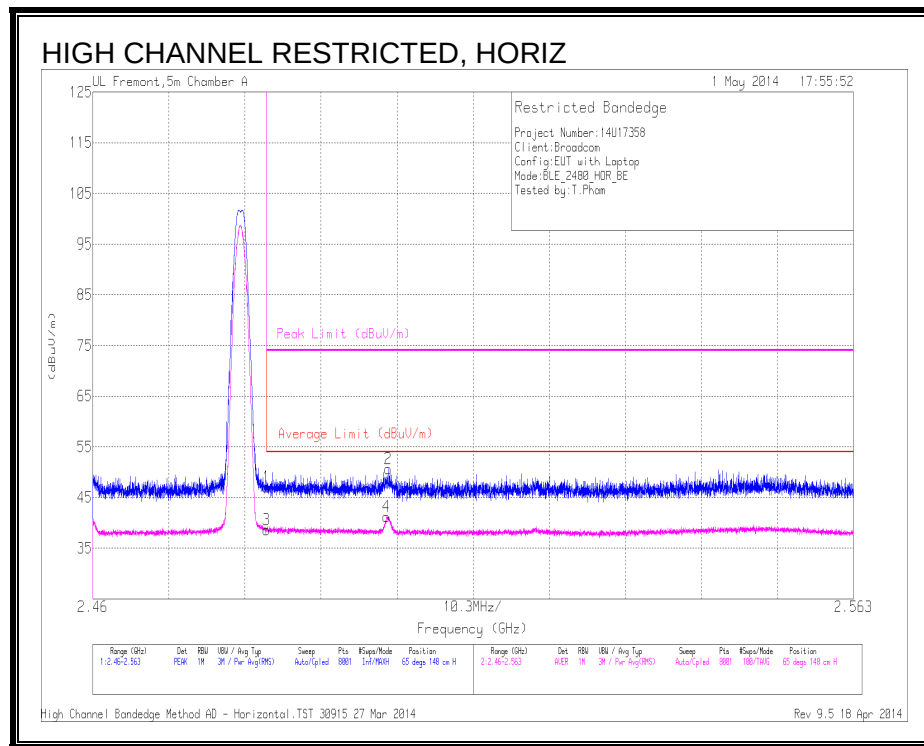
PK - Peak detector

RMS - RMS detection

Low Channel Bandedge Method AD - Vertical.TST 30915 27 Mar 2014

Rev 9.5 18 Apr 2014

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



Trace Markers

Marker	Freq (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	37.87	PK	32.7	-23.5	-	47.07	-	-	74	-26.93	65	148	H
2	* 2.5	41.45	PK	32.8	-23.6	-	50.65	-	-	74	-23.35	65	148	H
3	* 2.484	29.4	RMS	32.7	-23.5	2.04	40.64	54	-13.36	-	-	65	148	H
4	* 2.5	32.04	RMS	32.8	-23.6	2.04	43.28	54	-10.72	-	-	65	148	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

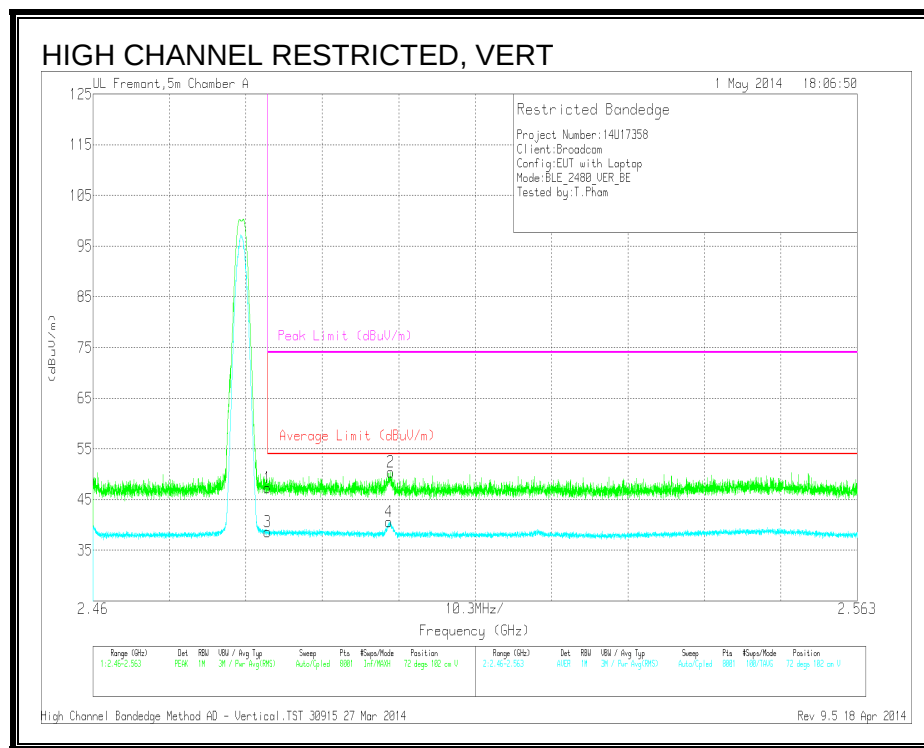
PK - Peak detector

RMS - RMS detection

High Channel Bandedge Method AD - Horizontal.TST 30915 27 Mar 2014

Rev 9.5 18 Apr 2014

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



Trace Markers

Marker	Freq (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	38.09	PK	32.7	-23.5	-	47.29	-	-	74	-26.71	72	102	V
3	* 2.484	29.39	RMS	32.7	-23.5	2.04	40.63	54	-13.37	-	-	72	102	V
4	* 2.5	31.46	RMS	32.8	-23.6	2.04	42.70	54	-11.30	-	-	72	102	V
2	*2.5	41.17	PK	32.8	-23.6	-	50.37	-	-	74	-23.63	72	102	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

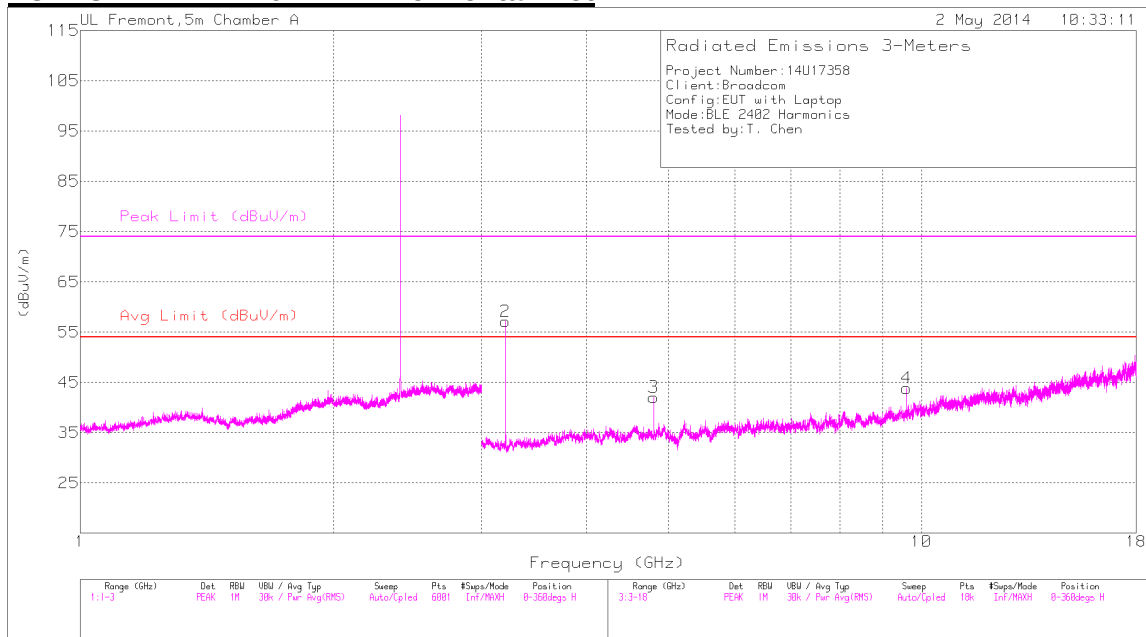
RMS - RMS detection

High Channel Bandedge Method AD - Vertical.TST 30915 27 Mar 2014

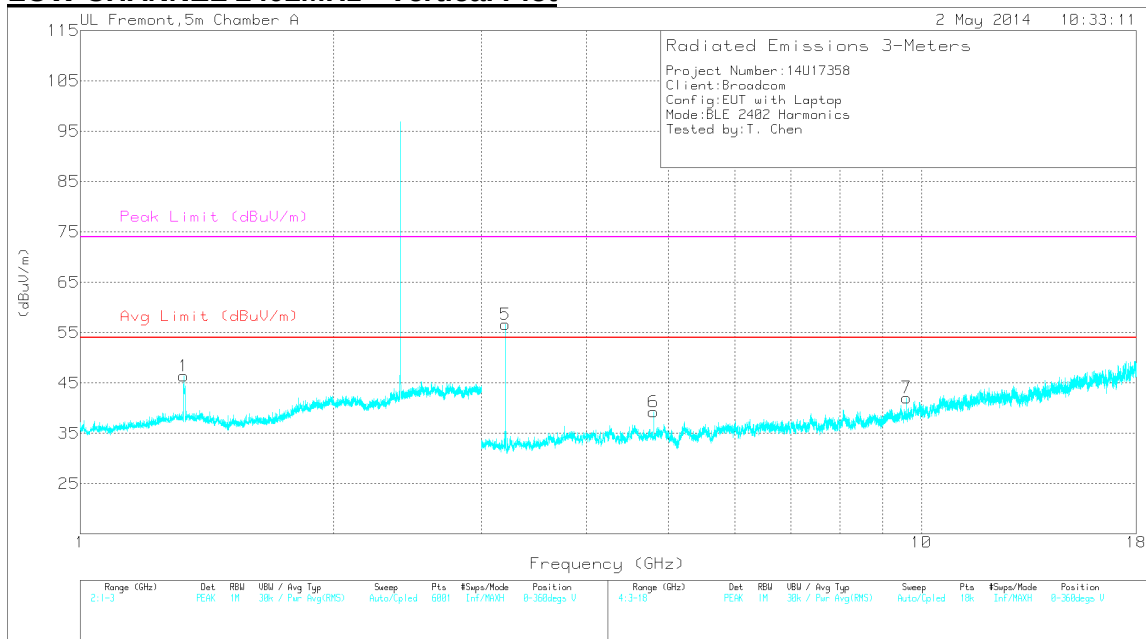
Rev 9.5 18 Apr 2014

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL 2402MHz - Horizontal Plot



LOW CHANNEL 2402MHz - Vertical Plot



LOW CHANNEL 2402MHz

Trace Markers

Marker	Freq (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/ Filt/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.329	48.06	PK2	30.1	-27.1	-	51.06	-	-	74	-22.94	275	105	V
	* 1.328	35.57	MAv1	30.1	-27	2.04	40.71	54	-13.29	-	-	275	105	V
3	* 4.804	44.39	PK2	34	-30	-	48.39	-	-	74	-25.61	346	110	H
	* 4.804	35.68	MAv1	34	-30	2.04	41.72	54	-12.28	-	-	346	110	H
6	* 4.805	43.99	PK2	34	-30	-	47.99	-	-	74	-26.01	249	203	V
	* 4.804	35.33	MAv1	34	-30	2.04	41.37	54	-12.63	-	-	249	203	V
2	3.202	59.12	PK2	32.6	-31.9	-	59.82	-	-	-	-	208	107	H
5	3.202	58.93	PK2	32.6	-31.9	-	59.63	-	-	-	-	183	154	V
4	9.608	38.2	PK2	36.8	-24.6	-	50.4	-	-	-	-	163	193	H
7	9.608	37.49	PK2	36.8	-24.6	-	49.69	-	-	-	-	238	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Avg - Video bandwidth < Resolution bandwidth

PK2 - KDB558074 Method: Maximum Peak

MAv1 - KDB558074 Option 1 Maximum RMS Average

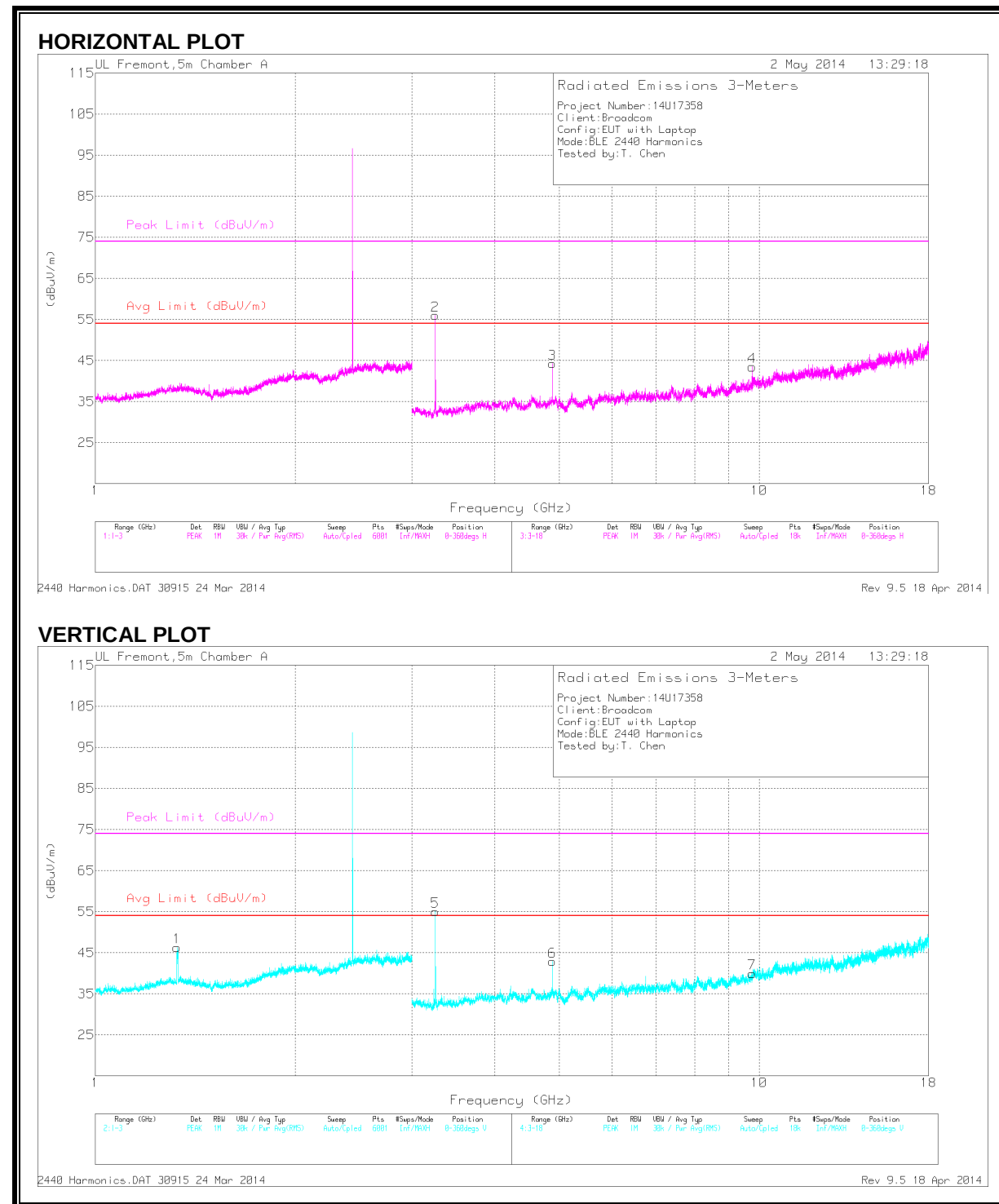
*.TST 30915 24 Mar 2014

Rev 9.5 18 Apr 2014

Notes:

- 1) Signals in the non-restricted bands are covered by antenna port testing in the original report since power is still the same.

MID CHANNEL – 2440 MHz



MID CHANNEL – 2440 MHz – DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.328	43.23	PK	30.1	-27	-	46.33	-	-	74	-27.67	0-360	100	V
3	* 4.88	45.4	PK2	34	-28.2	-	51.2	-	-	74	-22.8	342	216	H
	* 4.88	37.54	MAv1	34	-28.2	2.04	45.38	54	-8.62	-	-	342	216	H
6	* 4.88	44.04	PK2	34	-28.2	-	49.84	-	-	74	-24.16	249	100	V
	* 4.88	36.4	MAv1	34	-28.2	2.04	44.24	54	-9.76	-	-	249	100	V
2	3.253	57.91	PK2	32.8	-31.8	-	58.91	-	-	-	-	208	102	H
5	3.253	56.72	PK2	32.8	-31.8	-	57.72	-	-	-	-	183	202	V
4	9.76	37.57	PK2	36.9	-24.2	-	50.27	-	-	-	-	153	179	H
7	9.76	36.67	PK2	36.9	-24.2	-	49.37	-	-	-	-	244	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector
Radiated Emissions

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

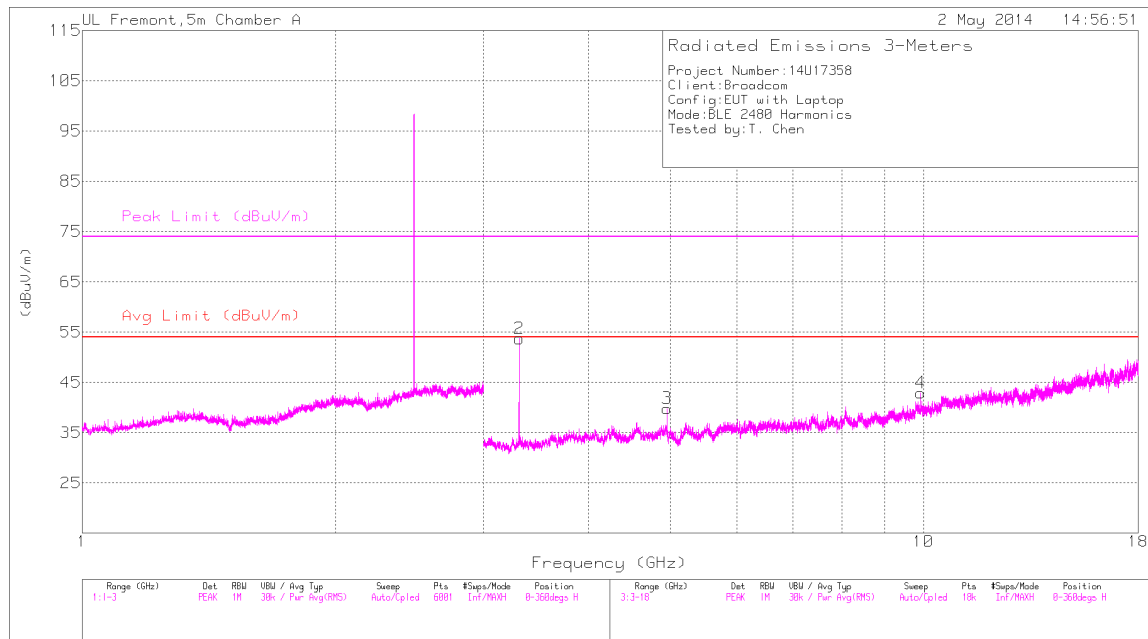
PK2 - KDB558074 Method: Maximum Peak
MAv1 - KDB558074 Option 1 Maximum RMS Average
*.TST 30915 24 Mar 2014
Rev 9.5 18 Apr 2014

Notes:

- 1) Signals in the non-restricted bands are covered by antenna port testing in the original report since power is still the same.

HIGH CHANNEL - 2480MHZ

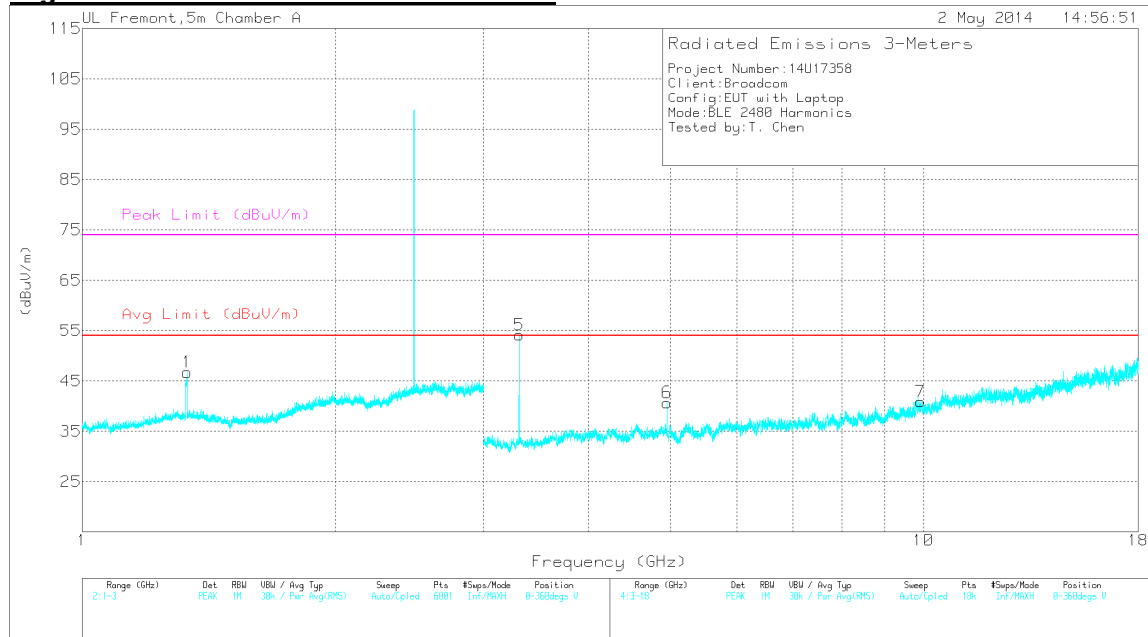
High CHANNEL 2480MHz - Horizontal Plot



*.TST_30915 24 Mar 2014

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High CHANNEL 2480MHz - Vertical Plot



*.TST_30915 24 Mar 2014

Rev 9.5 18 Apr 201

High CHANNEL 2480 MHz - DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT136 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	DCCF (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.333	43.44	PK	30.1	-26.8	-	46.74	-	-	74	-27.26	0-360	100	V
3	* 4.959	43.6	PK2	33.9	-29.7	-	47.8	-	-	74	-26.2	202	100	H
	* 4.96	36.01	MAV1	33.9	-29.7	2.04	42.25	54	-11.75	-	-	202	100	H
6	* 4.96	43.56	PK2	33.9	-29.7	-	47.76	-	-	74	-26.24	182	178	V
	* 4.96	35.29	MAV1	33.9	-29.7	2.04	41.53	54	-12.47	-	-	182	178	V
2	3.306	54.98	PK2	32.9	-30.8	-	57.08	-	-	-	-	206	100	H
5	3.306	55.42	PK2	32.9	-30.8	-	57.52	-	-	-	-	186	160	V
4	9.919	34.92	PK2	37.1	-22.9	-	49.12	-	-	-	-	186	160	V
7	9.92	35.81	PK2	37.1	-22.9	-	50.01	-	-	-	-	206	100	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK2 - KDB558074 Method: Maximum Peak

MAV1 - KDB558074 Option 1 Maximum RMS Average

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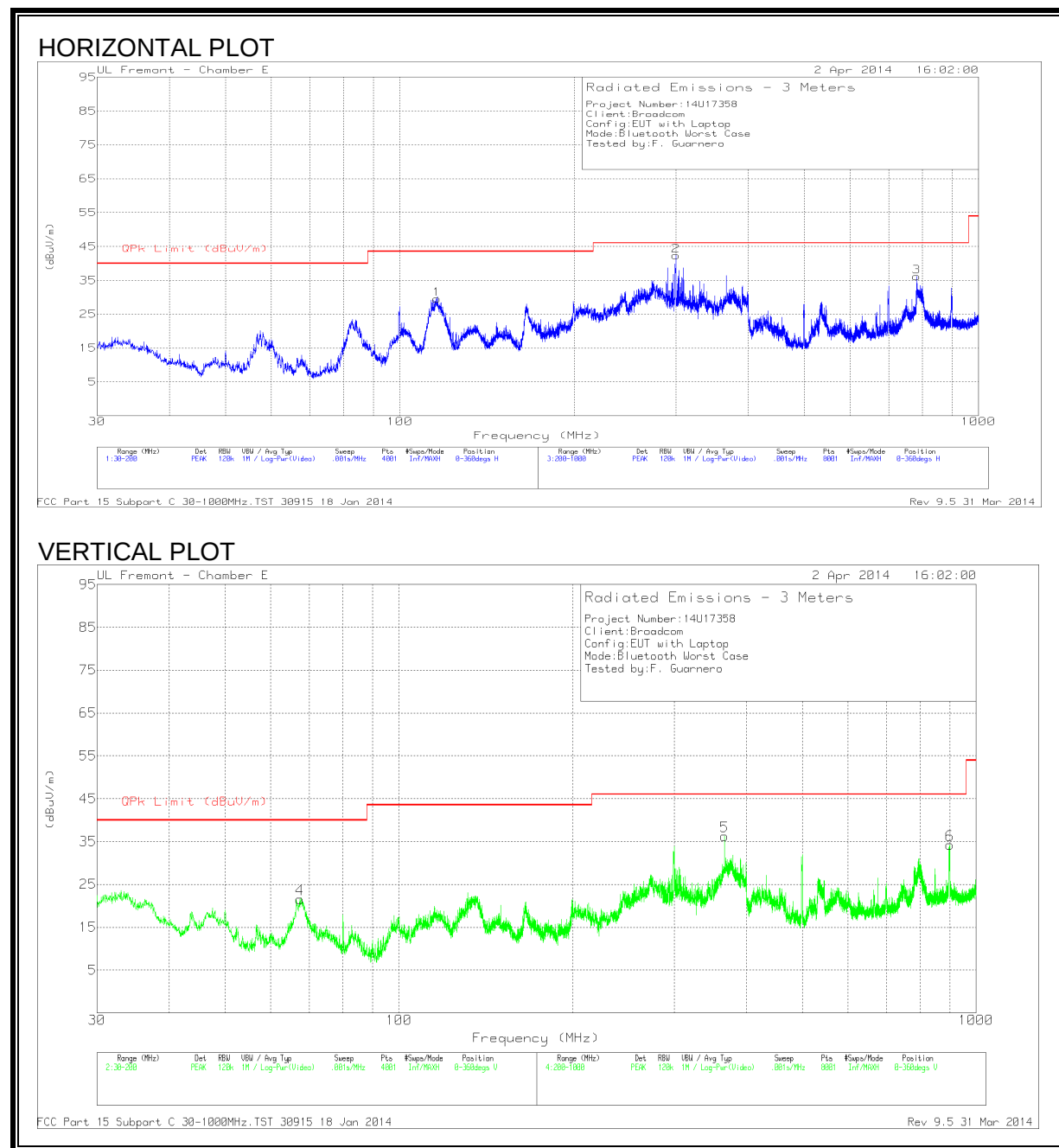
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Notes:

- 1) Signals in the non-restricted bands are covered by antenna port testing in the original report since power is still the same.

8.3. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)



WORST CASE BELOW 1GHz – DATA

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 15.9775	47.29	PK	13.6	-31.4	29.49	43.52	-14.03	0-360	301	H
4	67.4425	44.42	PK	8	-30.9	21.52	40	-18.48	0-360	100	V
2	300	59.34	PK	13.3	-30.3	42.34	46.02	-3.68	0-360	100	H
5	366.7	51.45	PK	14.9	-30.1	36.25	46.02	-9.77	0-360	100	V
3	781.2	43.89	PK	21.2	-29	36.09	46.02	-9.93	0-360	100	H
6	899.8	40.44	PK	22.2	-28.4	34.24	46.02	-11.78	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
300.008	58.24	QP	13.3	-30.3	41.24	46.02	-4.78	38	112	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

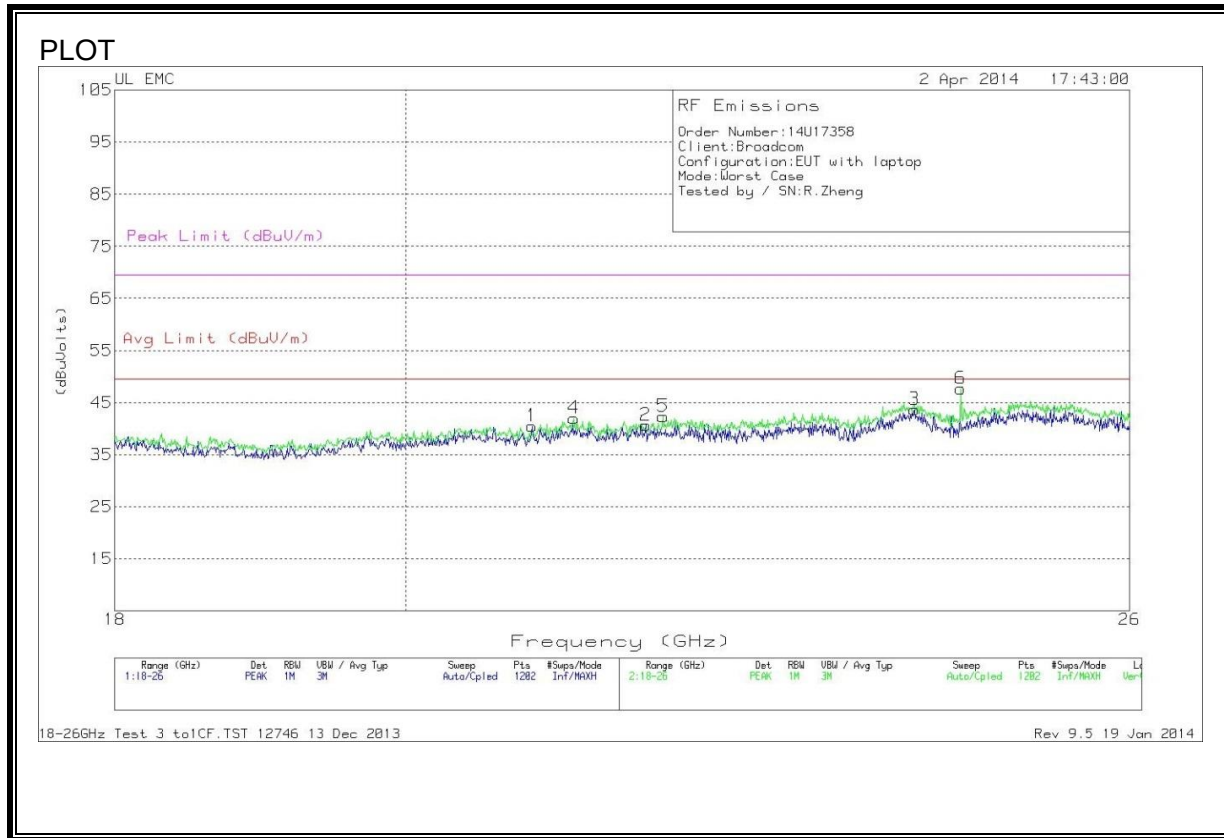
QP - Quasi-Peak detector

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8.4. WORST-CASE SPURIOUS EMISSION 18 – 26 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T89 (dB/m)	Amp/Cbl (dB)	Dist Corr (dB)	Corrected Reading (dBuVolts)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)
1	20.938	41.4	PK	32.9	-24.3	-9.5	40.5	49.5	-9	69.5	-29
2	21.817	40.97	PK	33.3	-24.1	-9.5	40.67	49.5	-8.83	69.5	-28.83
3	24.048	42.37	PK	33.6	-22.8	-9.5	43.67	49.5	-5.83	69.5	-25.83
4	21.257	42.3	PK	33	-23.8	-9.5	42	49.5	-7.5	69.5	-27.5
5	21.957	42.43	PK	33.3	-23.9	-9.5	42.33	49.5	-7.167	69.5	-27.17
6	24.455	46.37	PK	33.8	-23	-9.5	47.67	49.5	-1.83	69.5	-21.83

PK - Peak detector

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