FCC CFR47 PART 15 SUBPART C

BLUETOOTH LOW ENERGY CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Tablet + Bluetooth + DTS/UNII a/b/g/n and ANT+

MODEL NUMBER: SM-P355; SM-T355Y

FCC ID: A3LSMP355

REPORT NUMBER: 15I19962-E3

ISSUE DATE: FEBRUARY 13, 2015

Prepared for
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	2/13/15	Initial Issue	P. Zhang

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA/LTE Tablet + Bluetooth + DTS/UNII a/b/g/n and ANT+

MODEL: SM-P355; SM-T355Y

SERIAL NUMBER: R32G102MK2R (Radiated), R32G102MKSF (Conducted)

DATE TESTED: FEBRUARY 4-7, 2015

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
CFR 47 Part 15 Subpart C	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.

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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15.

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:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

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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 26000 MHz	4.94 dB

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

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5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA/LTE Tablet + Bluetooth + DTS/UNII a/b/g/n and ANT+.

SM-P355 and SM-T355Y all the parts are the same and only difference is SM-P355 support WACOM while SM-T355Y not. Also WACOM parts being removed from SM-T355Y.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402-2480	BLE	1.37	1.37

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -0.5 dBi.

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5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

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5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	**Manufacturer**	**Model**	**Serial Number**	**FCC ID**
AC Adapter	SAMSUNG	ETA0U83EWE	N/A	N/A
Earphone	SAMSUNG	N/A	N/A	N/A

I/O CABLES

I/O Cable List						
Cable No	**Port**	**# of identical ports**	**Connector Type**	**Cable Type**	**Cable Length (m)**	**Remarks**
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

EUT was set in the Hidden menu mode to enable BLE communications.

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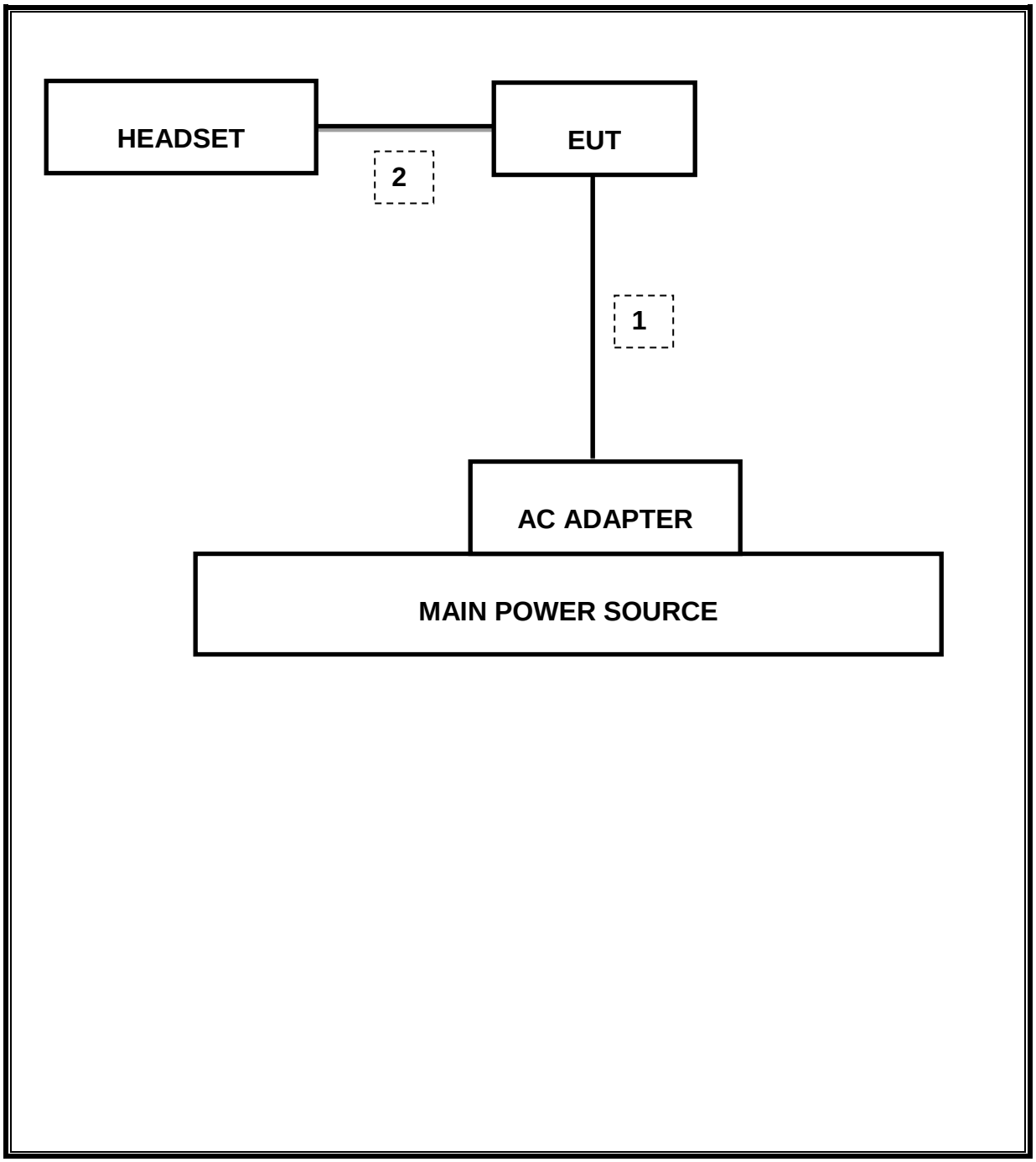
SETUP DIAGRAM FOR TESTS



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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 Due**
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	4/1/2015
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	2/26/2015
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	8/8/2015
RF Preamplifier, 100KHz -> 1300MHz	HP	TBD	C00825	06/01/15
RF Preamplifier, 1GHz - 18GHz	Miteq	NSP4000-SP2	924343	03/23/15
RF Preamplifier, 1GHz - 26.5GHz	HP	8449B	F00351	06/27/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	N/A	3/6/2015
Antenna, Horn, 18 GHz	ETS	3117	C01022	2/21/2015
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00589	12/17/2015
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/2015
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/2015
LISN, 30 MHz	FCC	50/250-25-2	C00626	1/14/2016

Test Equipment List			
Description	**Manufacturer**	**Model**	**Version**
Radiated Software	UL	UL EMC	Version 9.5, 07/22/14
Conducted Software	UL	UL EMC	Version 9.5, 05/17/14
CLT Software	UL	UL RF	Version 1.0, 02/02/15
Antenna Port Software	UL	UL RF	Version 2.1.1.1, 1/20/15

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7. SUMMARY

8.

FCC Part Section	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.247 (a)(2)	RSS-210 A8.2(a)	Occupied Band width (6dB)	>500KHz	Conducted	Pass	0.667MHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-54.46dBm
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	1.37dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-13.93dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	45.04dBuV(PK)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	43.28dBuV/m

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ANTENNA PORT TEST RESULTS

8.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.6730	0.5
Middle	2440	0.6670	0.5
High	2480	0.6710	0.5

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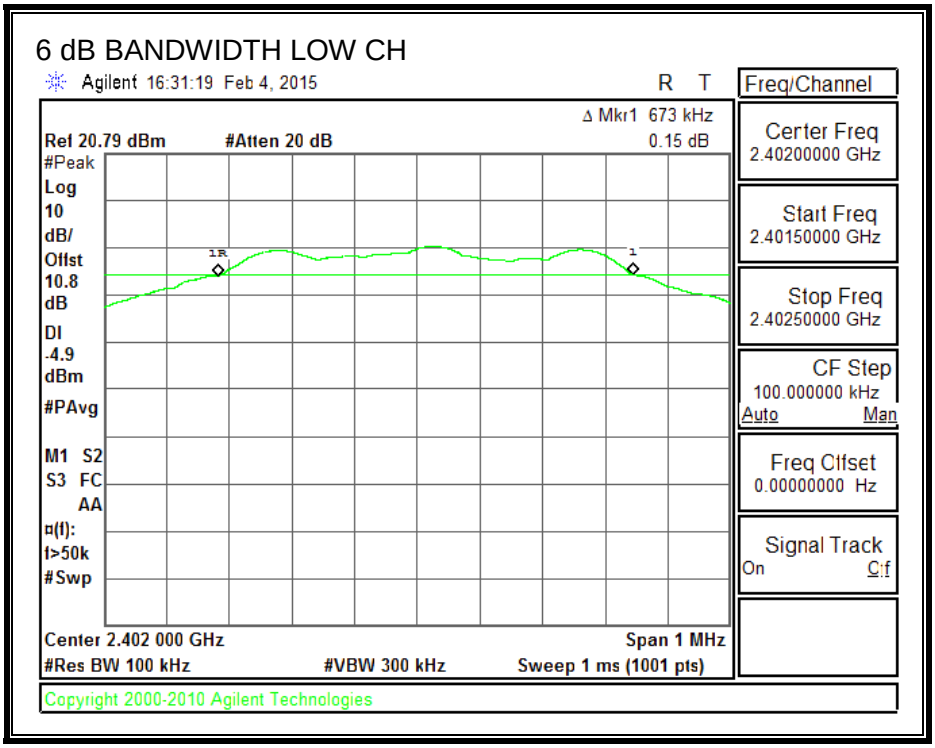
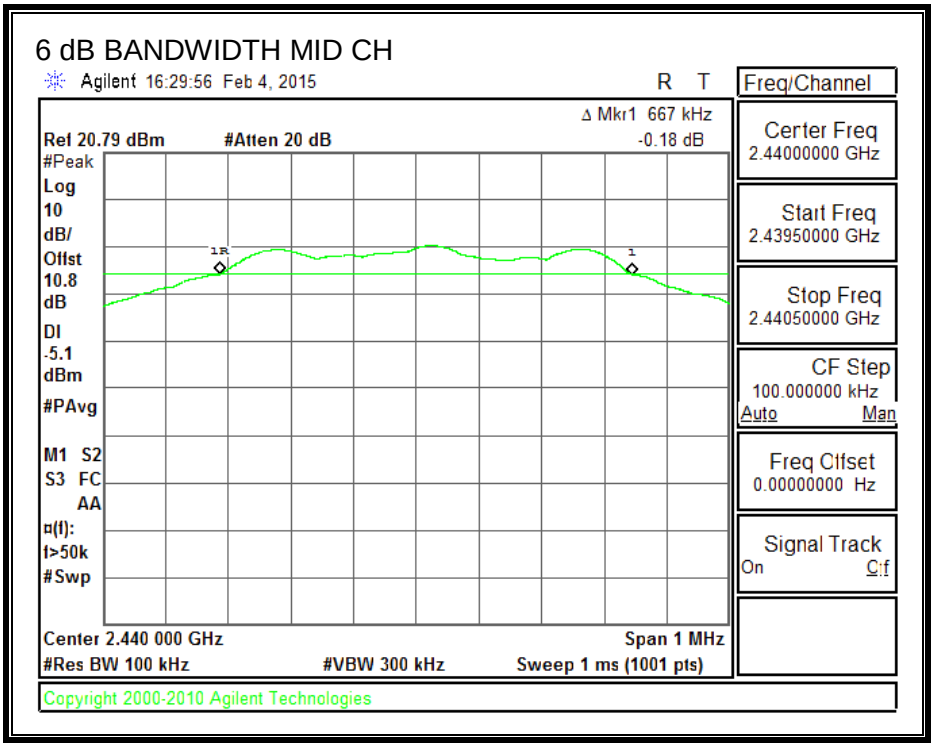
6 dB BANDWIDTH





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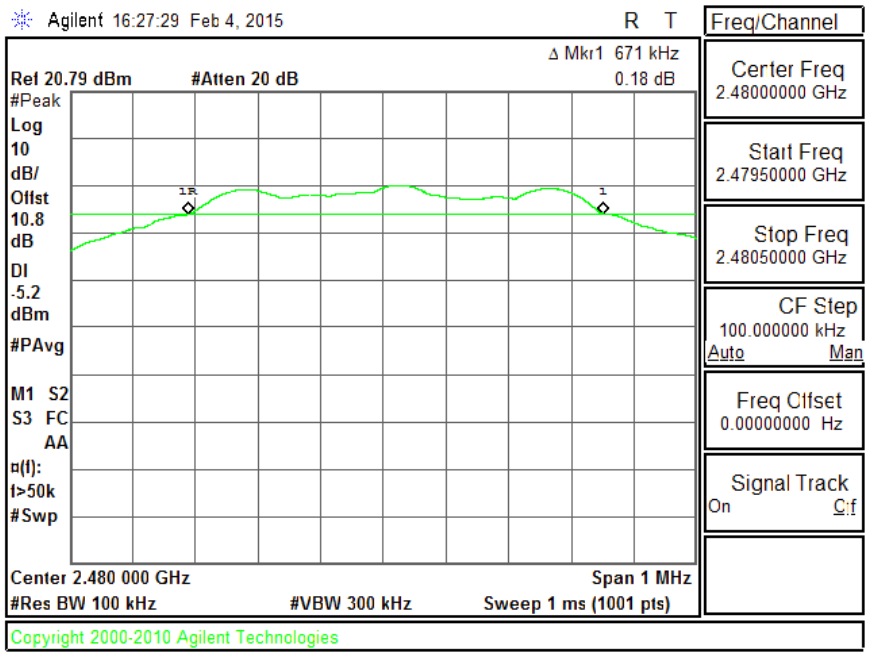
6 dB BANDWIDTH HIGH CH



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8.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

Reference to KDB558074 D01 DTS Meas Guidance v03r02: The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0842
Middle	2440	1.0571
High	2480	1.0504

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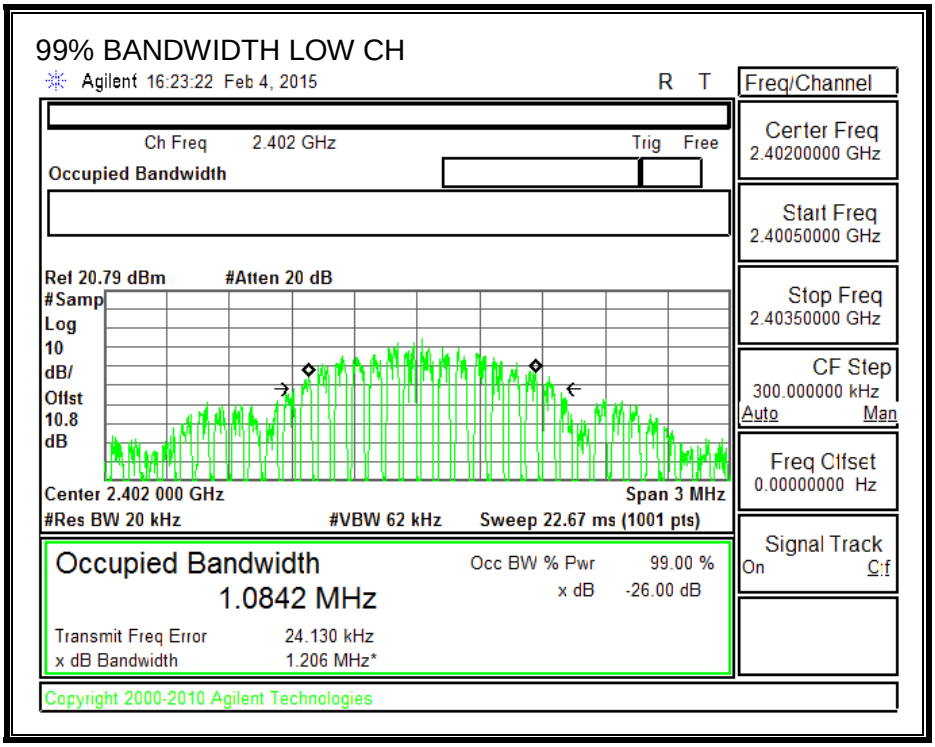
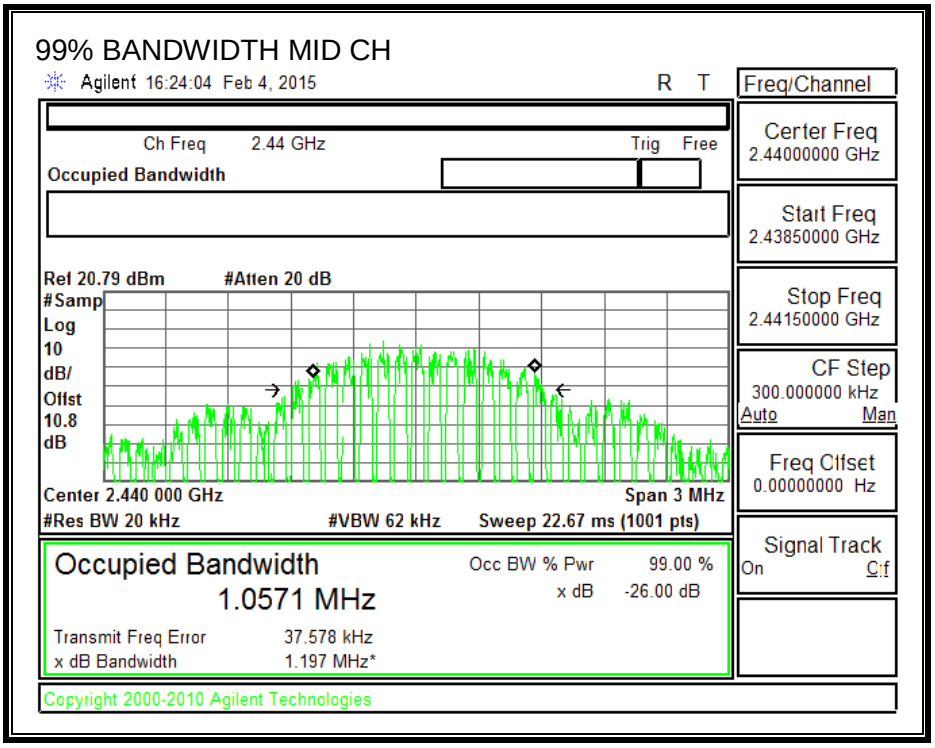
99% BANDWIDTH





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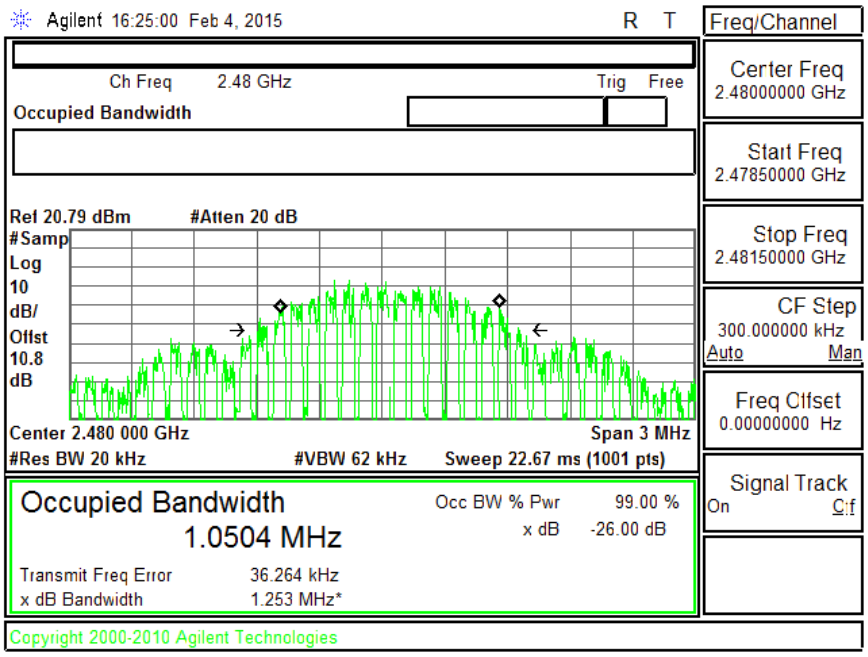
99% BANDWIDTH HIGH CH



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8.3. OUTPUT POWER

LIMITS

FCC §15.247 (b)

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

TEST PROCEDURE

Peak power is measured using KDB558074 D01 DTS Meas Guidance v03r02 under section 9.1.1 utilizing spectrum analyze.

RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	1.370	30	-28.630
Middle	2440	1.270	30	-28.730
High	2480	1.190	30	-28.810

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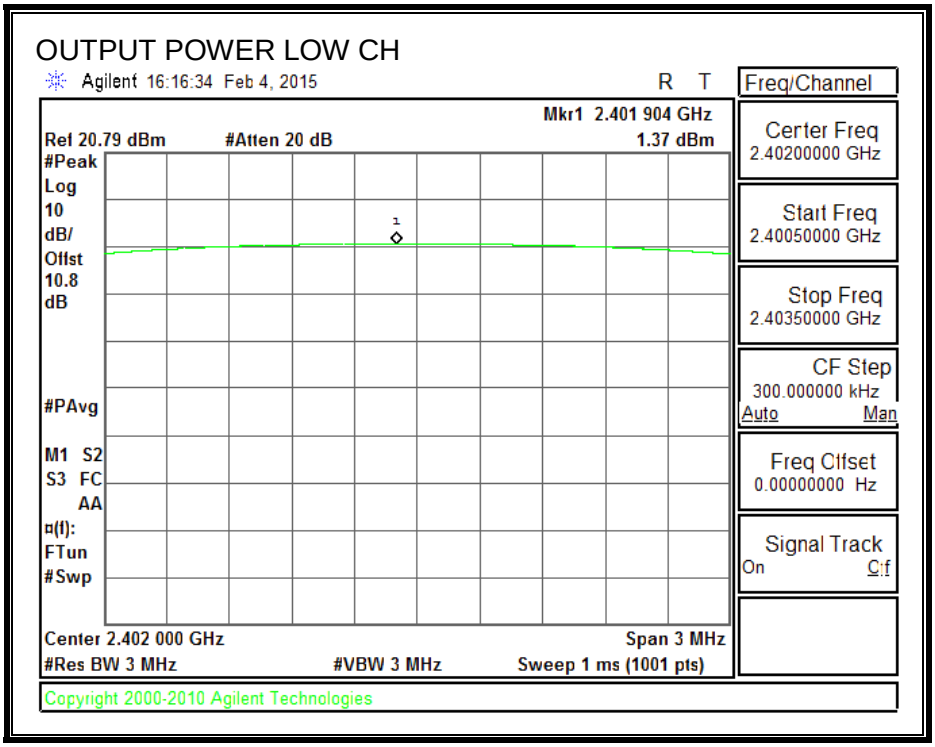
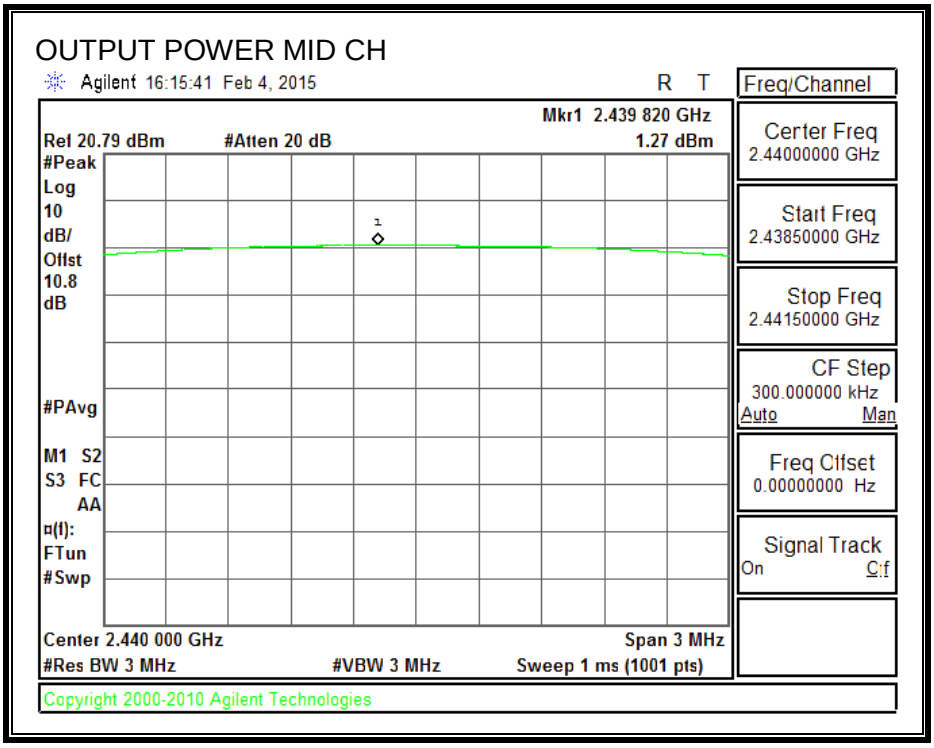
OUTPUT POWER





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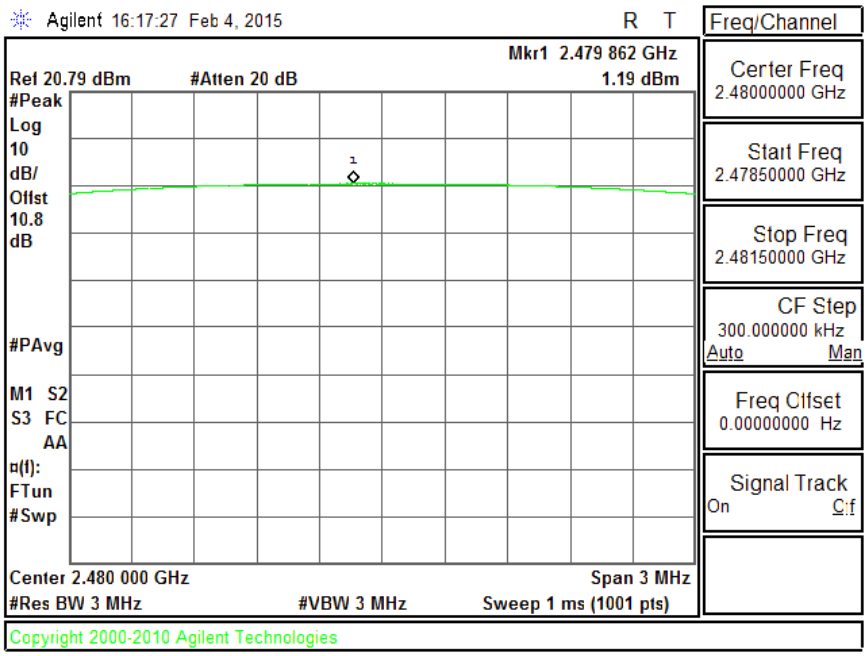
OUTPUT POWER HIGH CH



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8.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

Channel	Frequency (MHz)	AV power (dBm)
Low	2402	0.93
Middle	2440	0.93
High	2480	0.83

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8.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST PROCEDURE

Power Spectral Density was performed utilizing the “Method PKPSD (Peak PSD)” under KDB558074 D01 DTS Meas Guidance v03r02.

RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-13.94	8	-21.94
Middle	2440	-13.93	8	-21.93
High	2480	-14.10	8	-22.10

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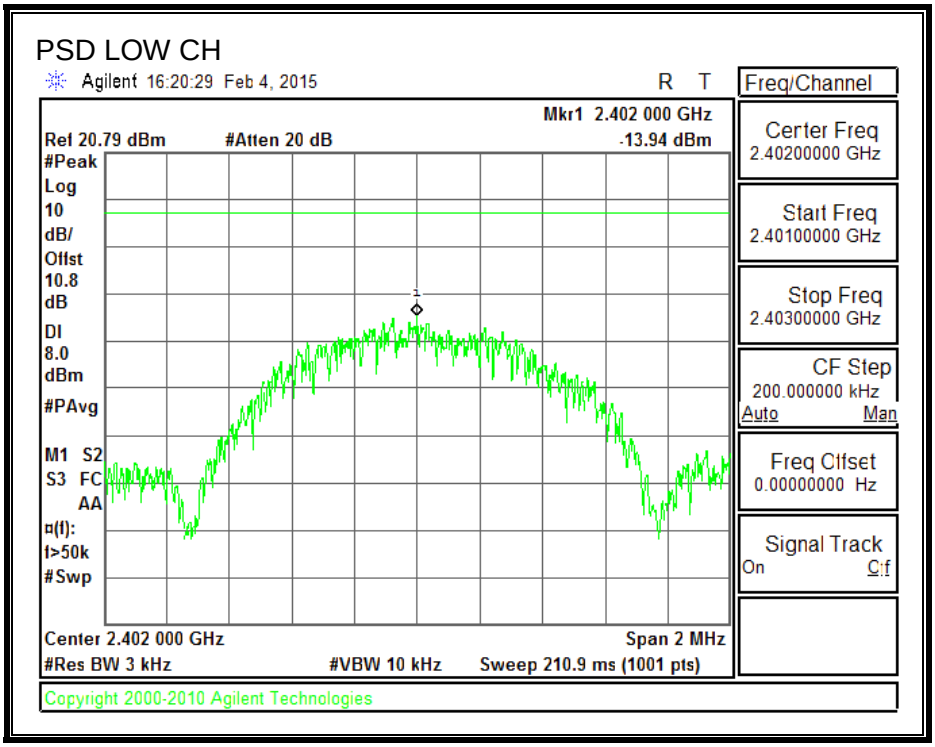
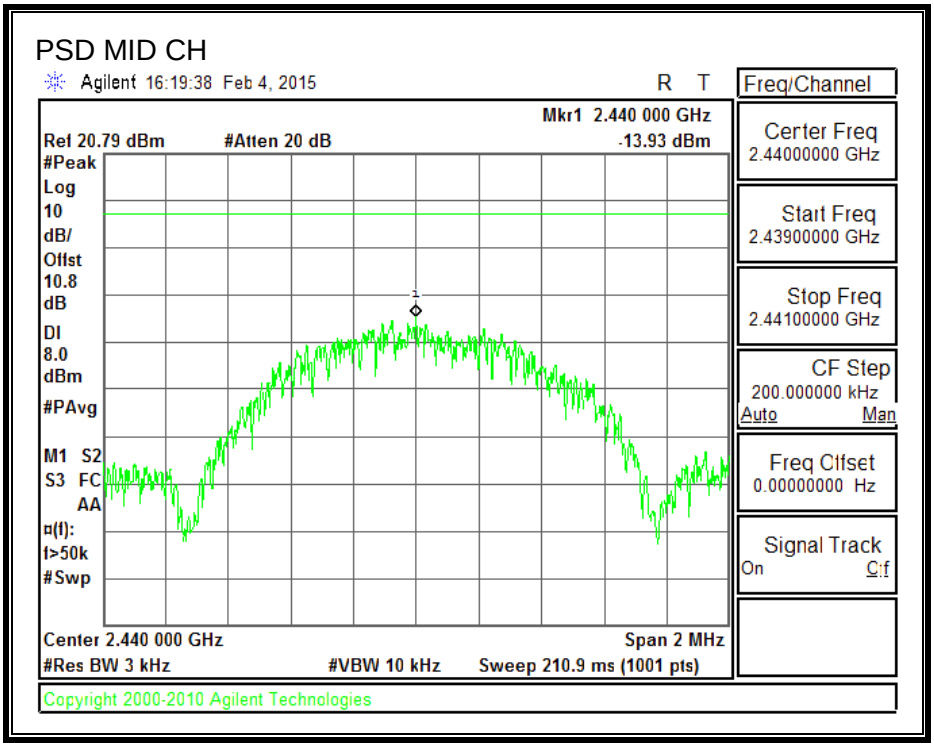
POWER SPECTRAL DENSITY





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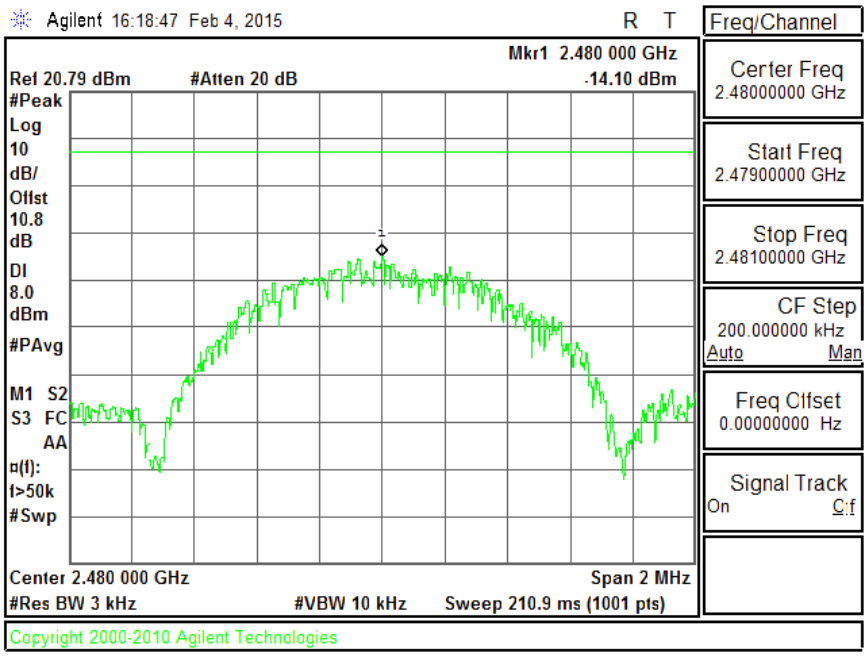
PSD HIGH CH



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8.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

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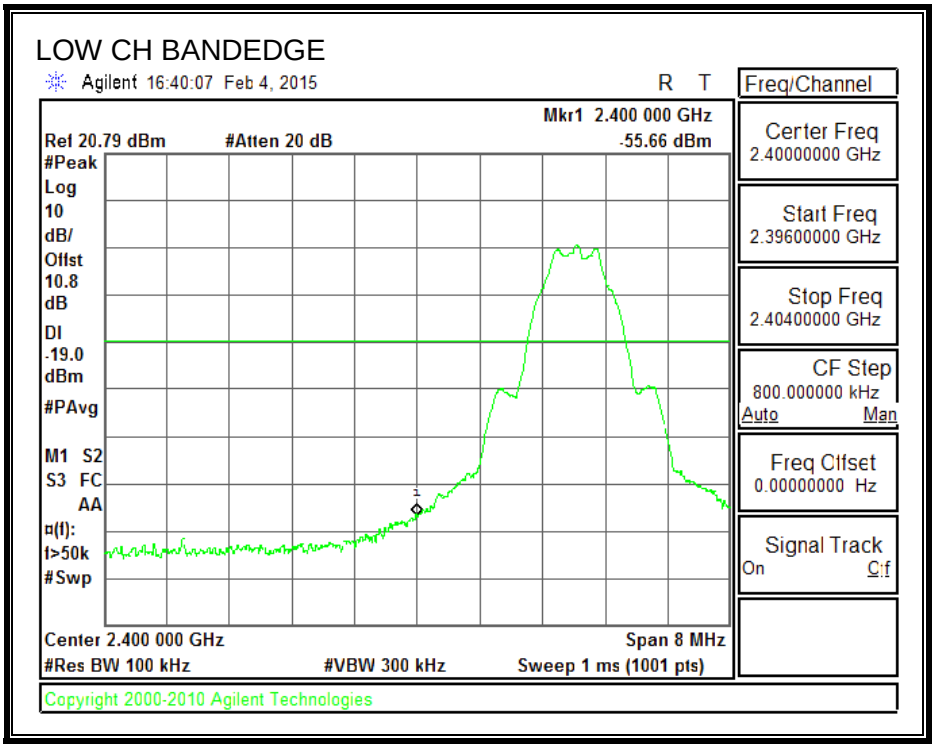
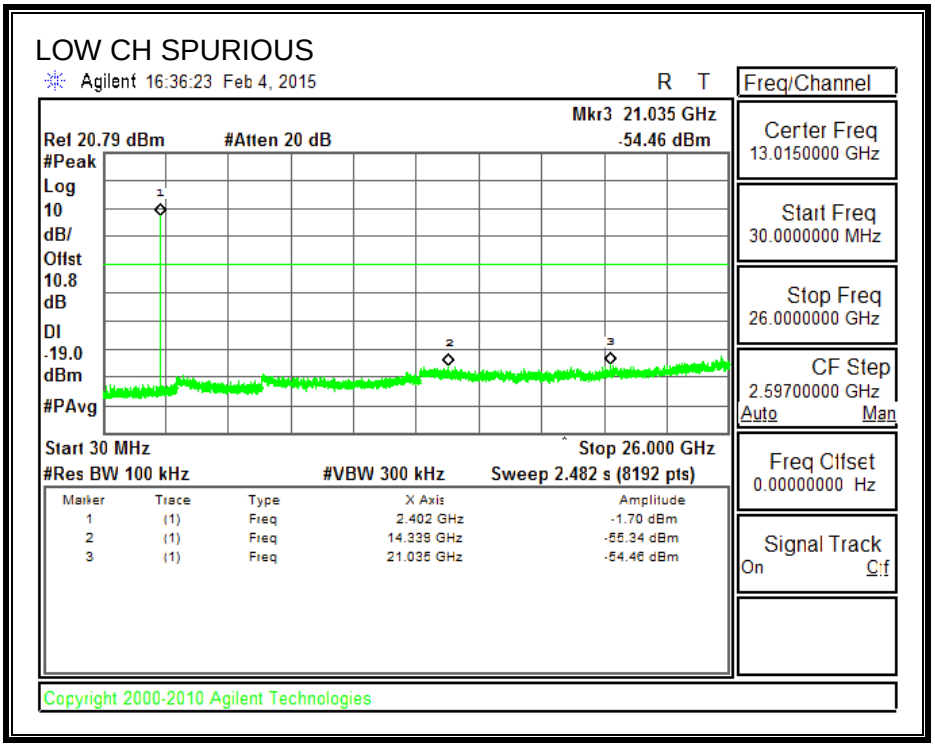
RESULTS

SPURIOUS EMISSIONS, LOW CHANNEL





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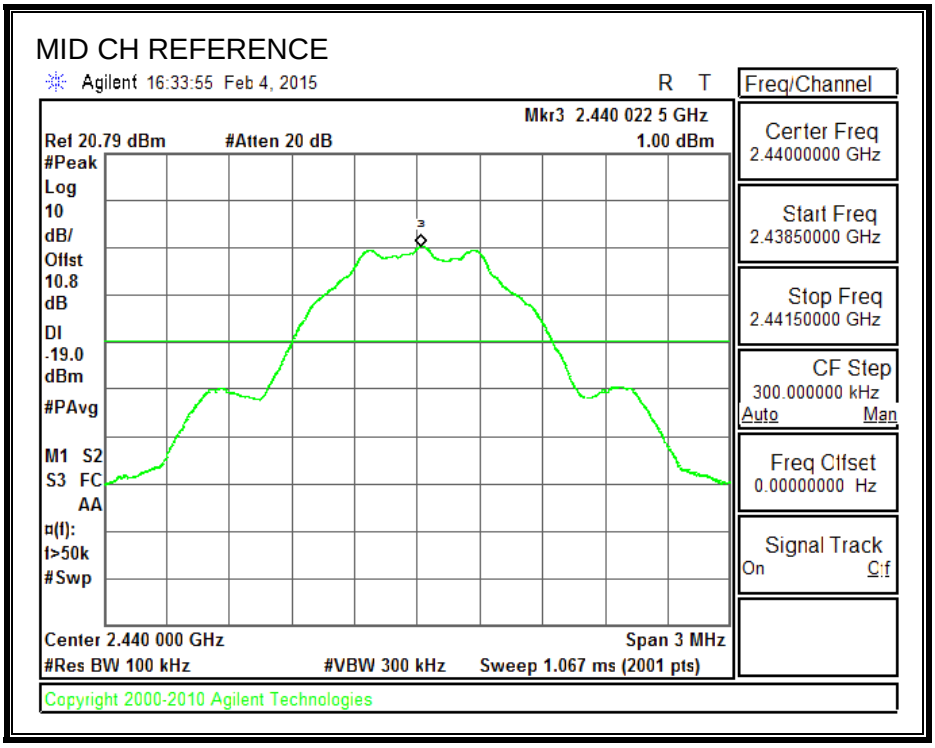
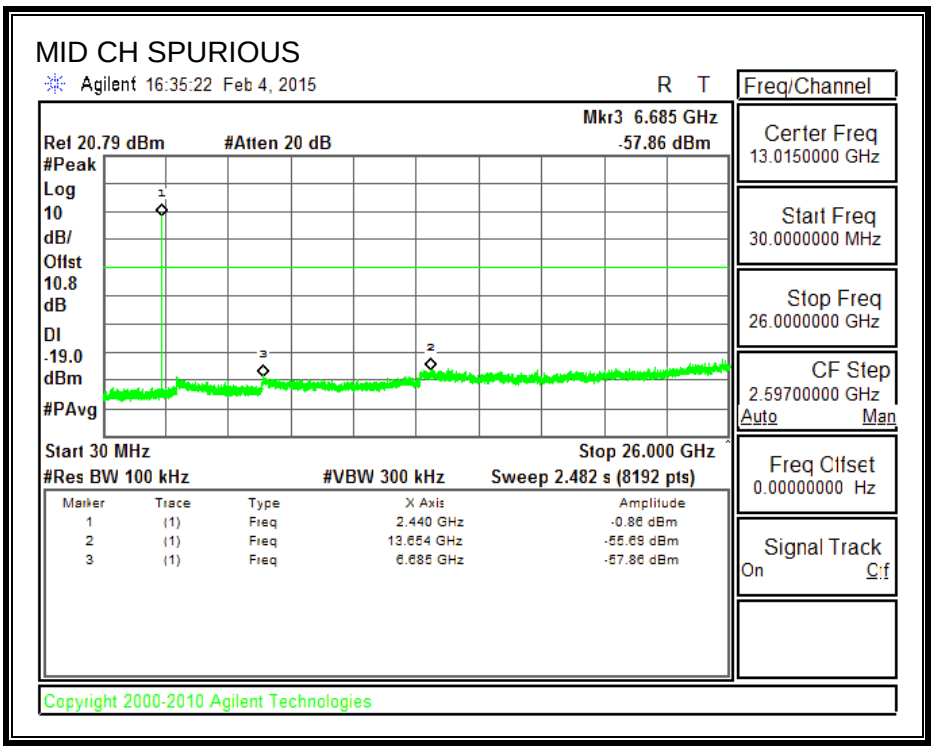
SPURIOUS EMISSIONS, MID CHANNEL





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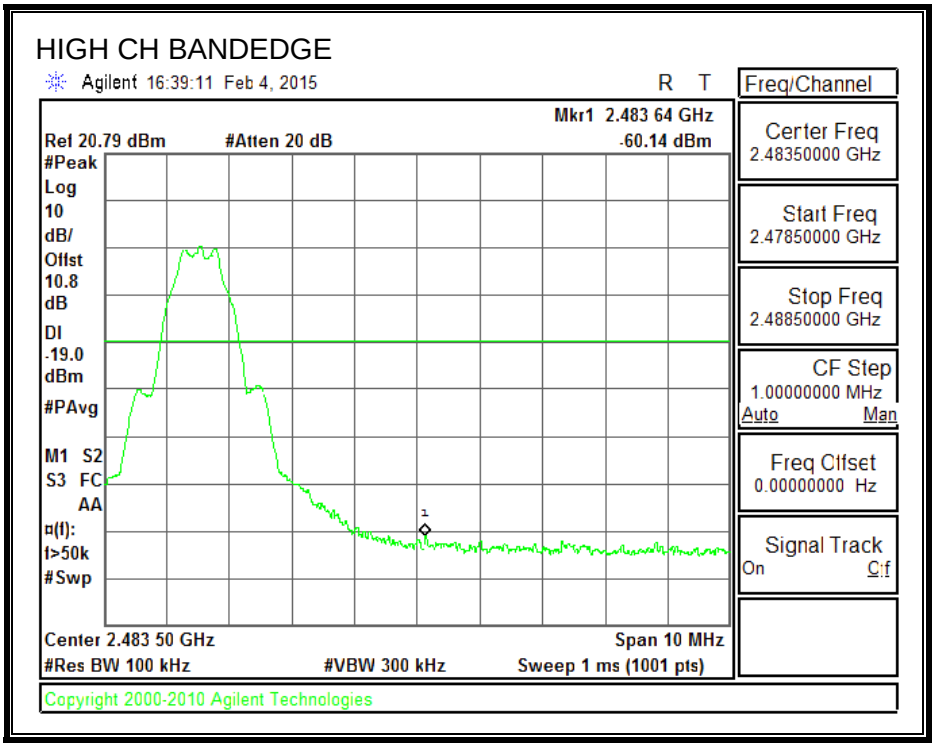
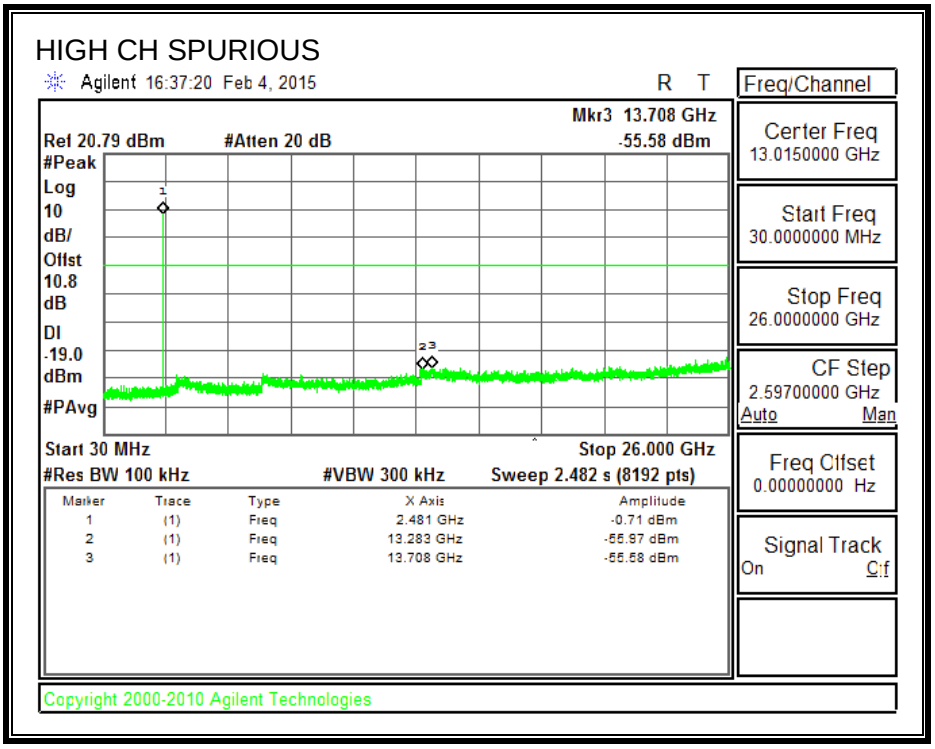
SPURIOUS EMISSIONS, HIGH CHANNEL





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9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

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

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4 - 2009. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and add duty cycle factor for average measurements. Duty cycle factor = 10 log (1/x). For this sample: DCF = 10log(1/0.625)=2.04dB

The spectrum from 1GHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

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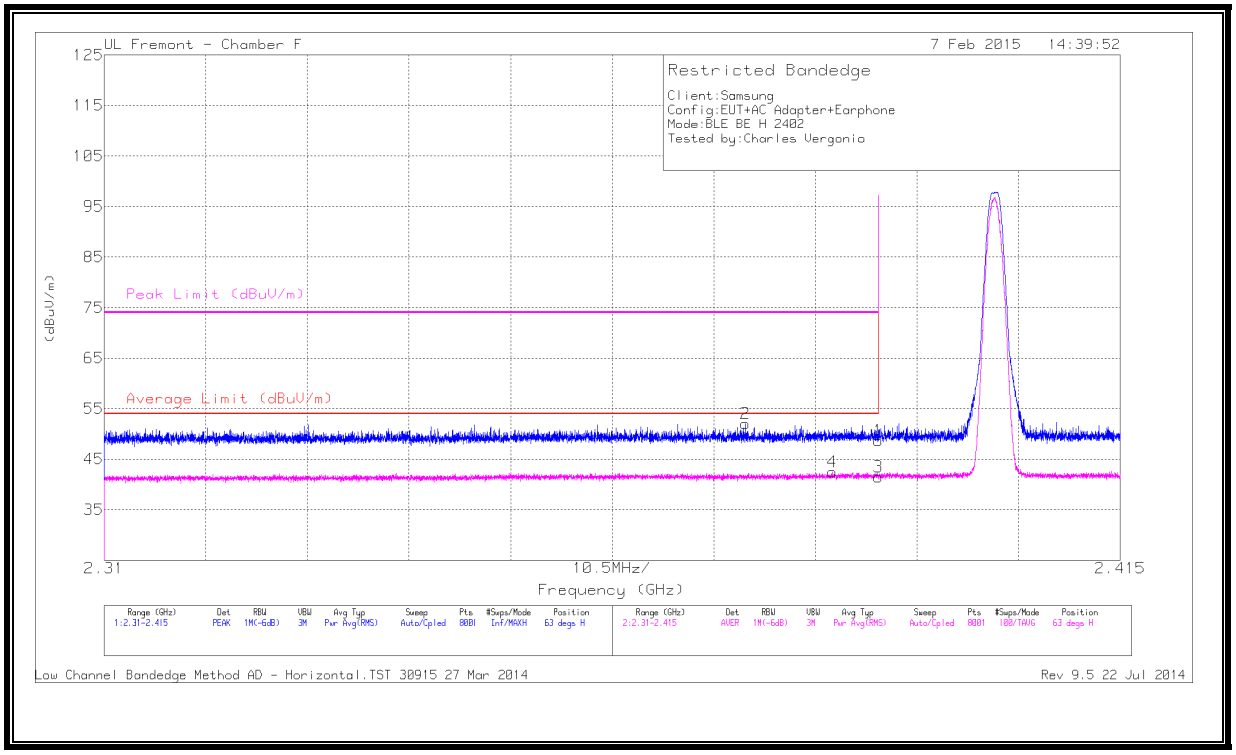
9.2. TRANSMITTER ABOVE 1 GHz

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	37.35	PK	32.2	-20.9	0	48.65	-	-	74	-25.35	63	218	H
2	* 2.376	40.84	PK	32.1	-20.9	0	52.04	-	-	74	-21.96	63	218	H
3	* 2.39	28.13	RMS	32.2	-20.9	2.04	41.47	54	-12.53	-	-	63	218	H
4	* 2.385	29.18	RMS	32.1	-20.9	2.04	42.42	54	-11.58	-	-	63	218	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK - Peak detector
RMS - RMS detection

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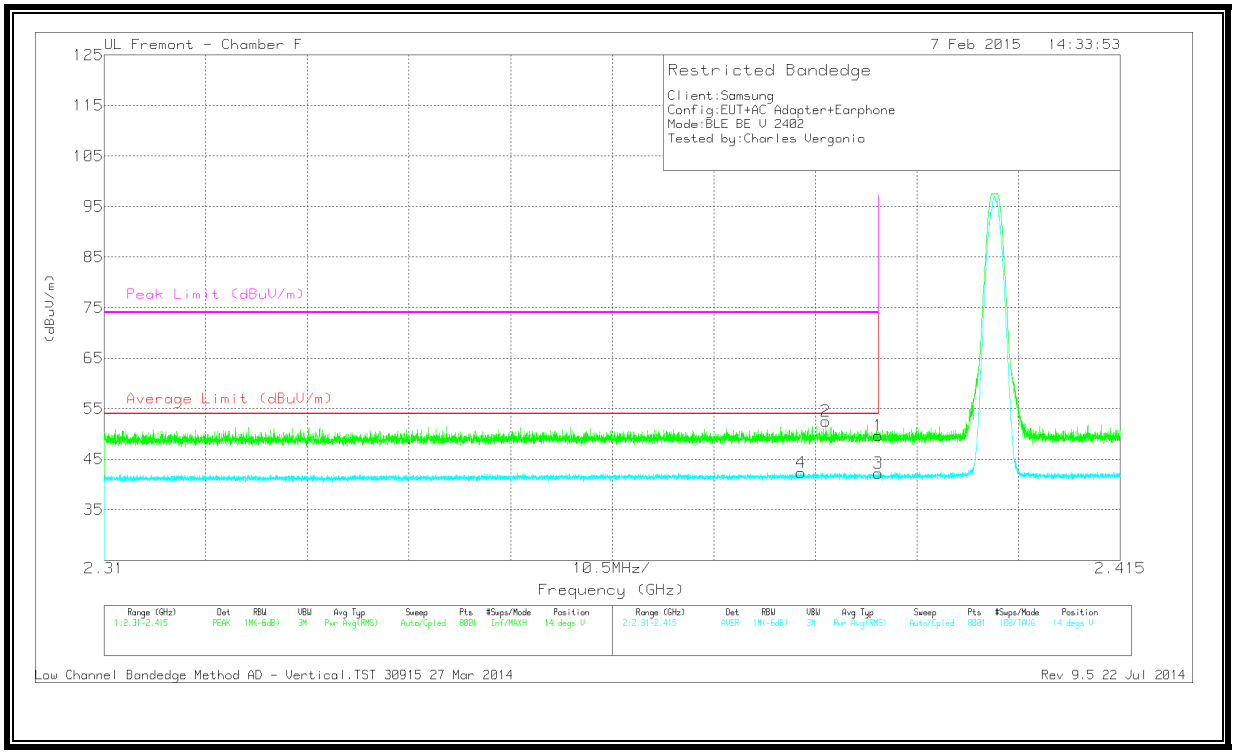
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	38.42	PK	32.2	-20.9	0	49.72	-	-	74	-24.28	14	280	V
2	* 2.385	41.36	PK	32.1	-20.9	0	52.56	-	-	74	-21.44	14	280	V
3	* 2.39	28.83	RMS	32.2	-20.9	2.04	42.17	54	-11.83	-	-	14	280	V
4	* 2.382	29.13	RMS	32.1	-20.9	2.04	42.37	54	-11.63	-	-	14	280	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK - Peak detector
RMS - RMS detection

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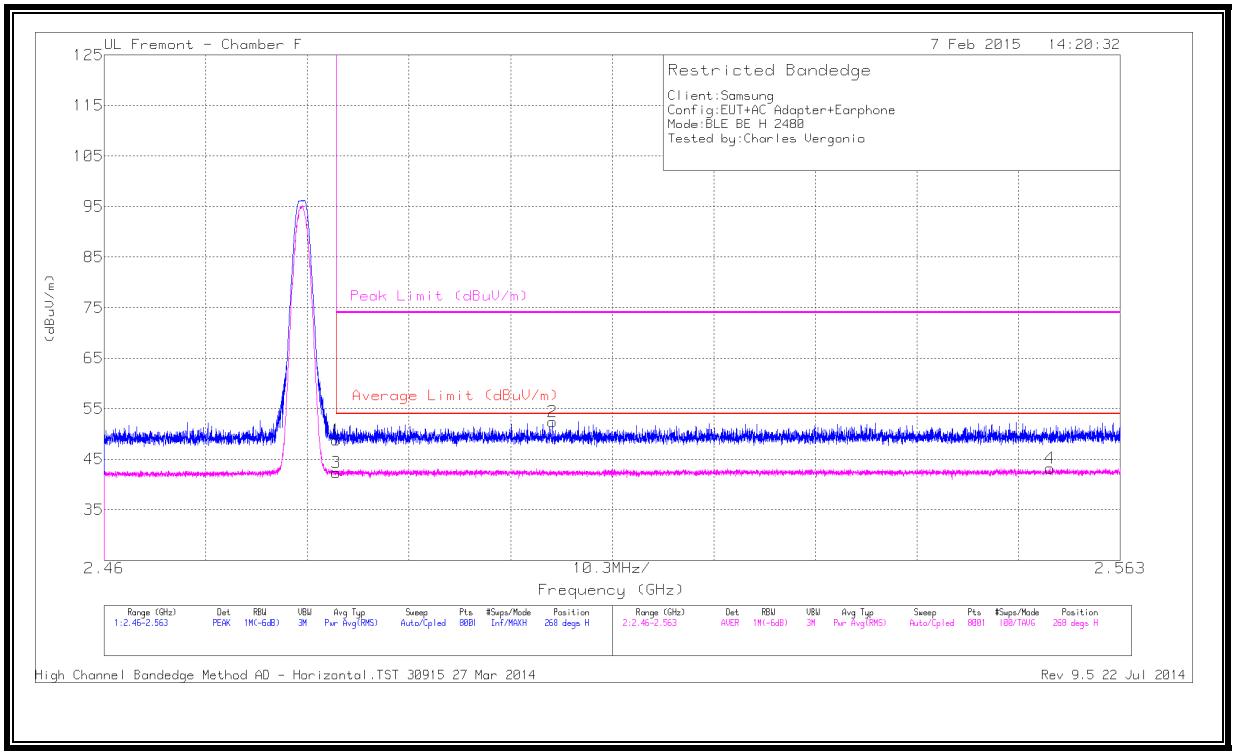
RESTRICTED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	37.08	PK	32.6	-20.9	0	48.78	-	-	74	-25.22	268	163	H
2	2.505	40.79	PK	32.6	-21	0	52.39	-	-	74	-21.61	268	163	H
3	* 2.484	28.56	RMS	32.6	-20.9	2.04	42.3	54	-11.7	-	-	268	163	H
4	2.556	29.32	RMS	32.7	-20.8	2.04	43.26	54	-10.74	-	-	268	163	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK - Peak detector
RMS - RMS detection

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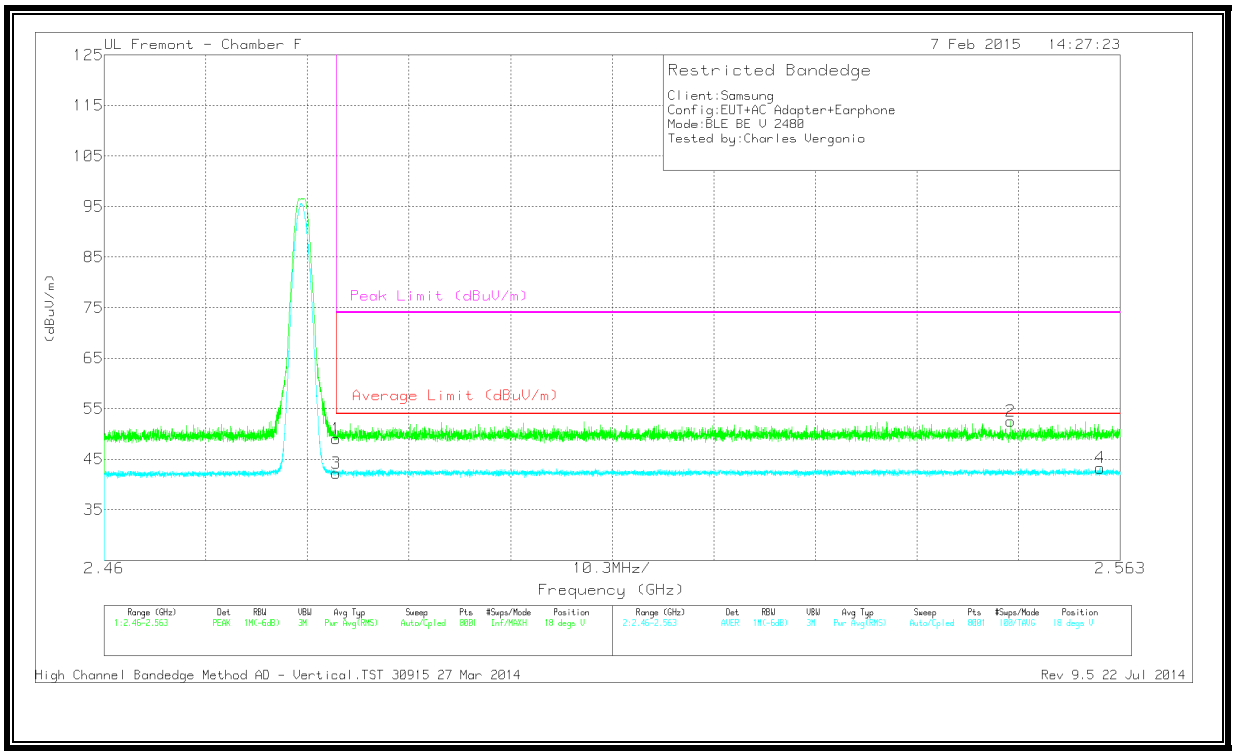
VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (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	37.39	PK	32.6	-20.9	0	49.09	-	-	74	-24.91	18	264	V
2	2.552	40.67	PK	32.7	-20.9	0	52.47	-	-	74	-21.53	18	264	V
3	* 2.484	28.51	RMS	32.6	-20.9	2.04	42.25	54	-11.75	-	-	18	264	V
4	2.561	29.34	RMS	32.7	-20.8	2.04	43.28	54	-10.72	-	-	18	264	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band
PK - Peak detector
RMS - RMS detection

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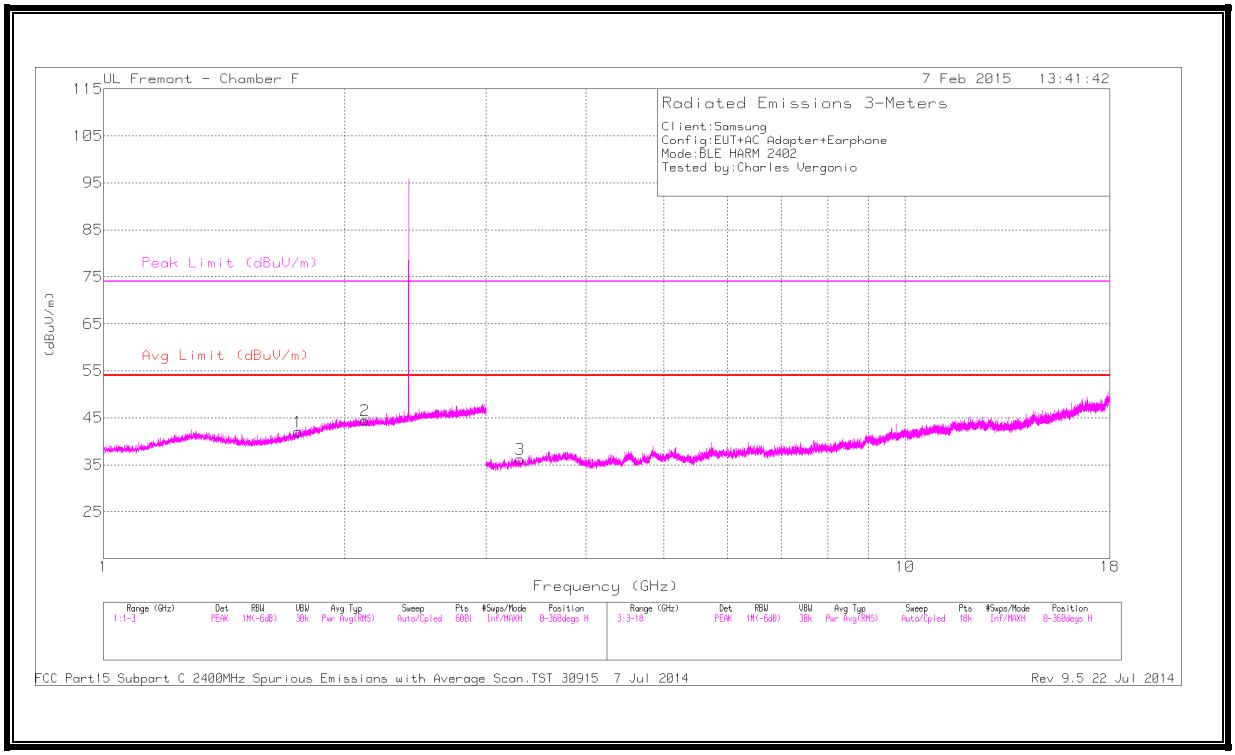
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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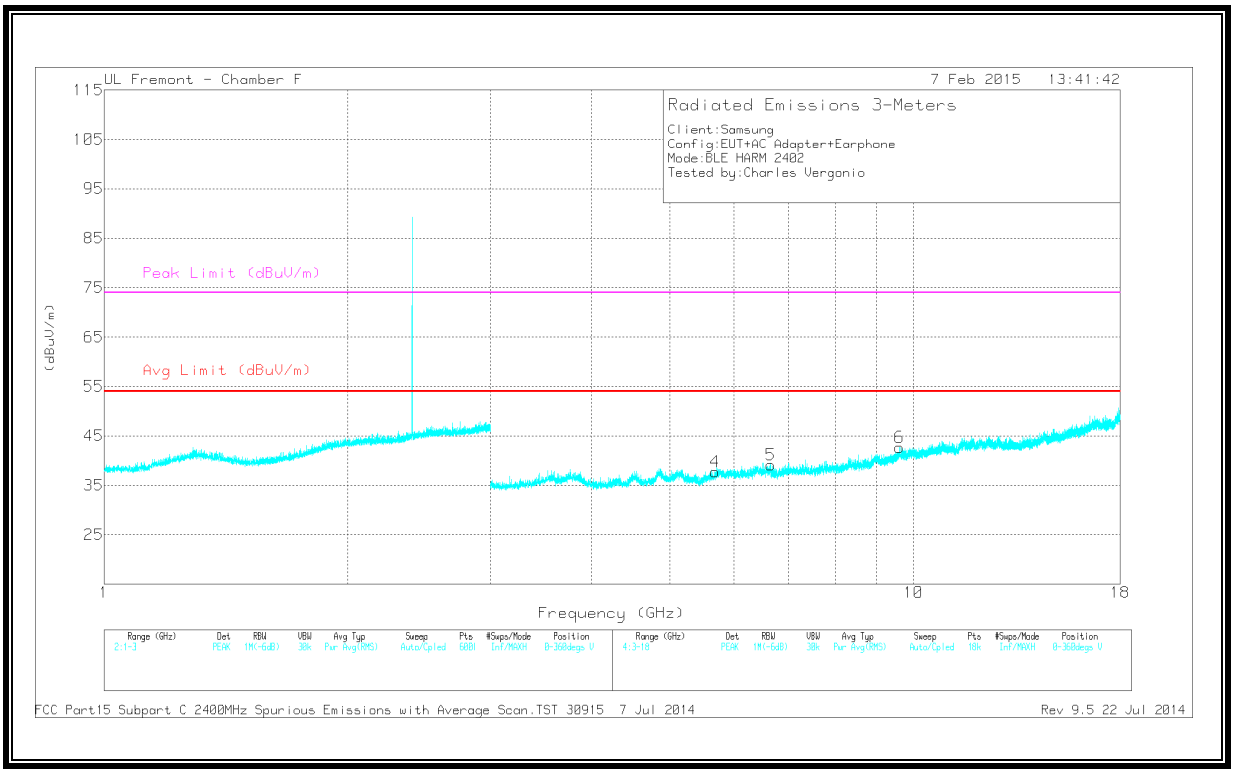
LOW CHANNEL, VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.749	33.99	PK	29.7	-21.6	42.09	-	-	-	-	0-360	100	H
2	2.12	33.91	PK	31.8	-21.2	44.51	-	-	-	-	0-360	201	H
3	3.307	31.06	PK	33.7	-28.6	36.16	-	-	-	-	0-360	201	H
4	5.69	30.16	PK	34.8	-27.2	37.76	-	-	-	-	0-360	201	V
5	6.662	30.09	PK	35.6	-26.6	39.09	-	-	-	-	0-360	201	V
6	9.611	27.02	PK	36.9	-21.2	42.72	-	-	-	-	0-360	201	V

PK - Peak detector

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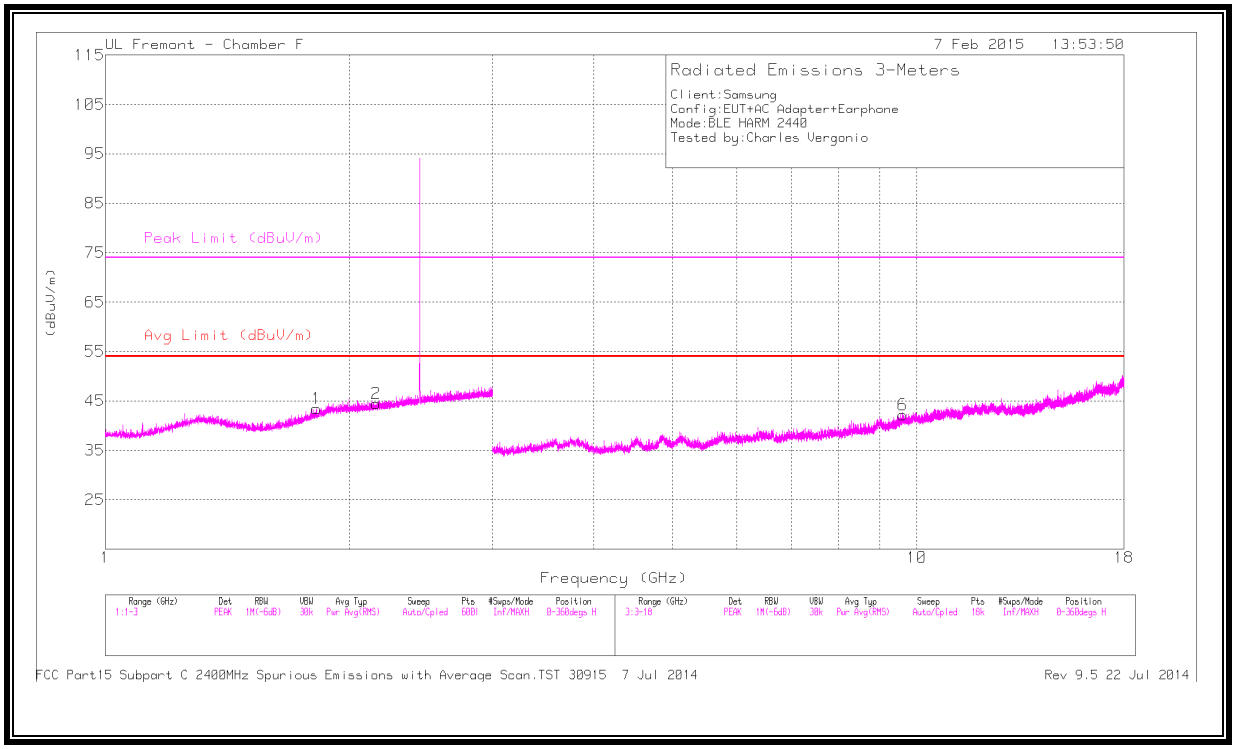
MID CHANNEL, HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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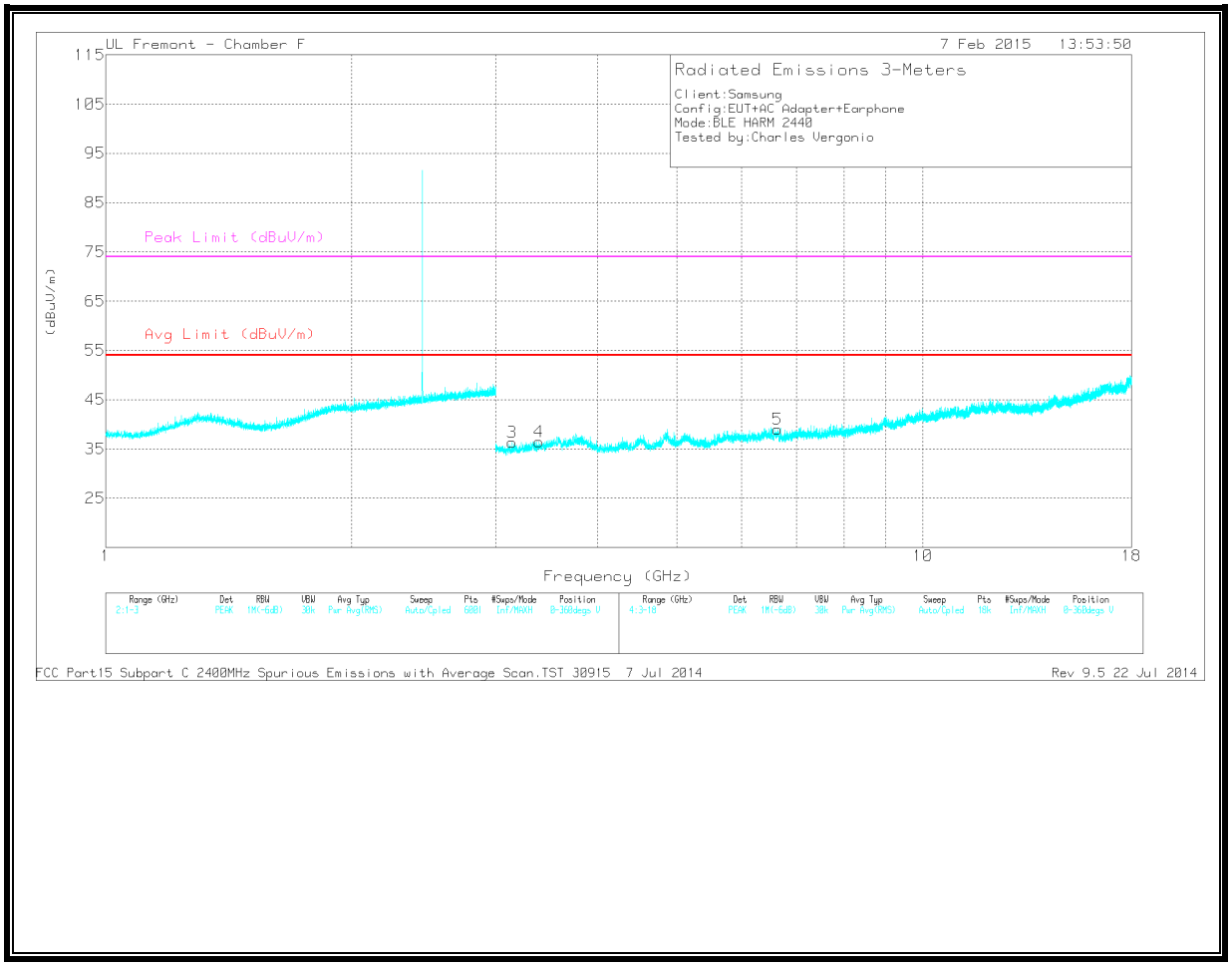
MID CHANNEL, VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.82	34.58	PK	30.5	-21.6	43.48	-	-	-	-	0-360	201	H
2	2.157	33.89	PK	31.8	-21.2	44.49	-	-	-	-	0-360	100	H
6	9.611	26.43	PK	36.9	-21.2	42.13	-	-	-	-	0-360	100	H
3	3.142	32.56	PK	33.3	-29.5	36.36	-	-	-	-	0-360	101	V
4	3.389	31.93	PK	34	-29.5	36.43	-	-	-	-	0-360	201	V
5	6.635	29.71	PK	35.7	-26.4	39.01	-	-	-	-	0-360	101	V

PK - Peak detector

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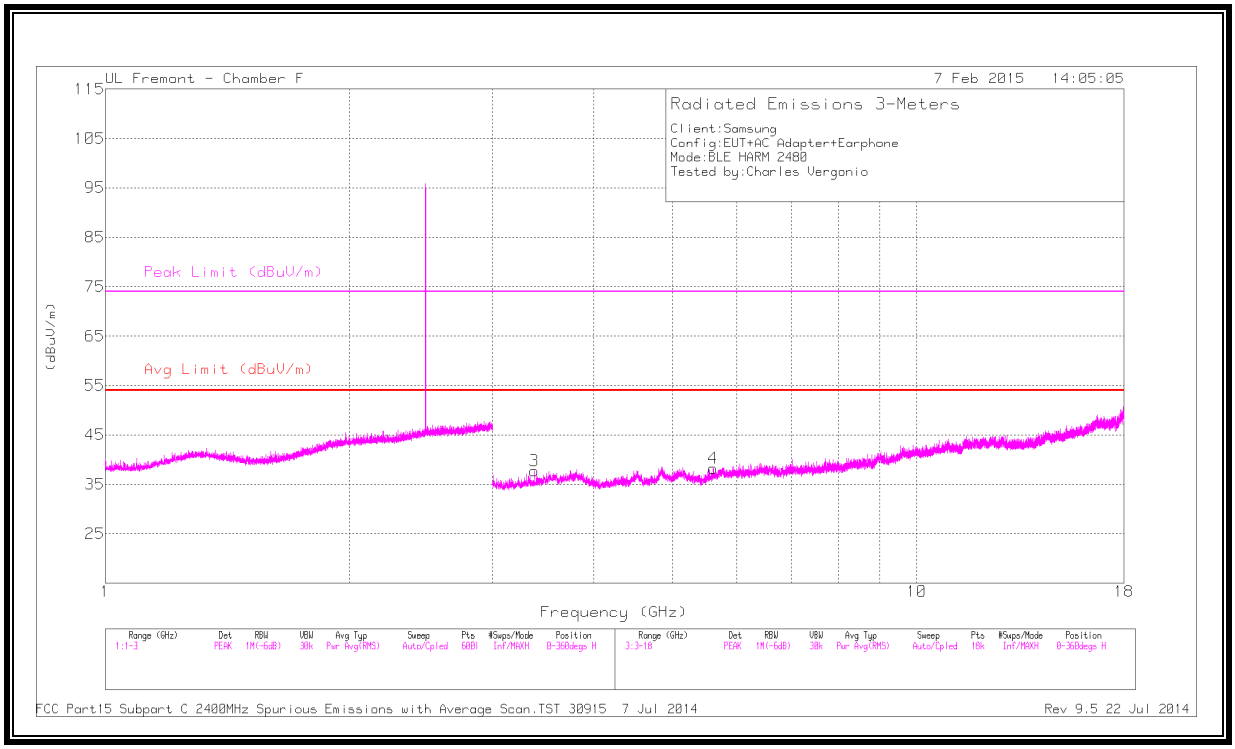
HIGH CHANNEL, HORIZONTAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

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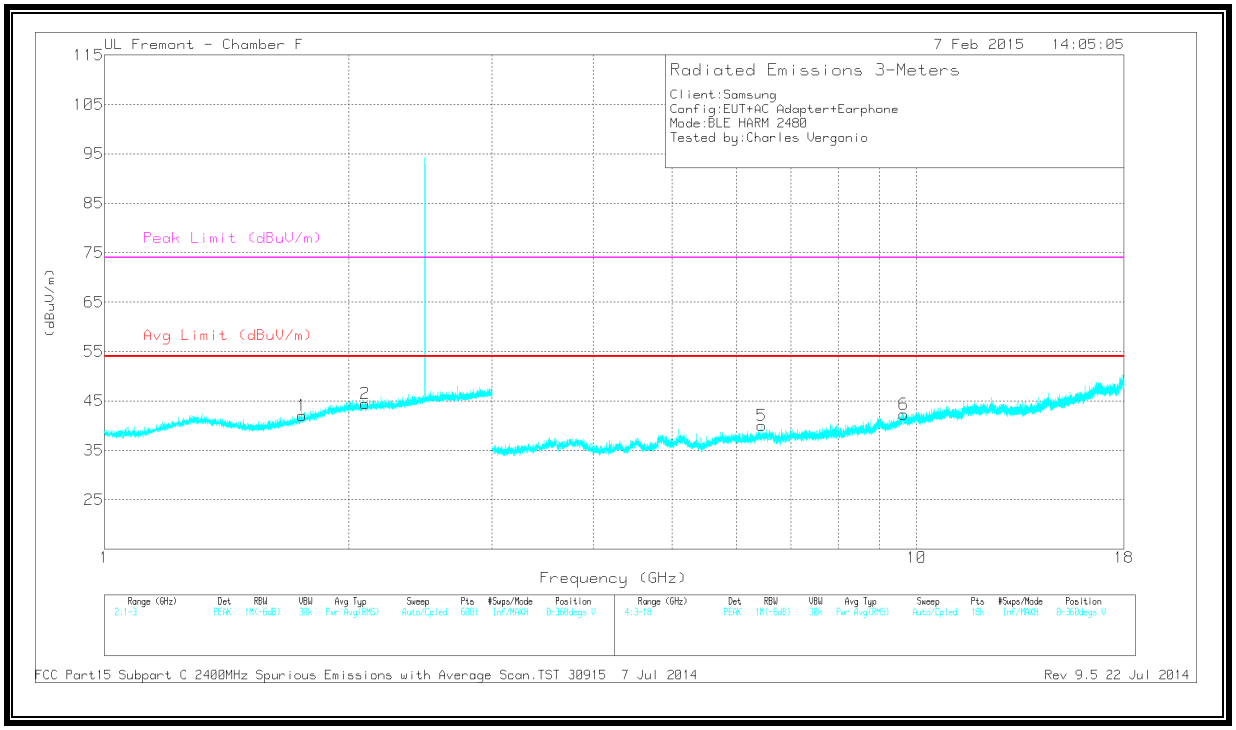
HIGH CHANNEL, VERTICAL



Note: Emission was scanned up to 26GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.75	33.98	PK	29.7	-21.6	42.08	-	-	-	-	0-360	101	V
2	2.093	34	PK	31.8	-21.3	44.5	-	-	-	-	0-360	201	V
3	3.378	33.32	PK	33.9	-29.5	37.72	-	-	-	-	0-360	100	H
4	5.609	31.62	PK	34.6	-28	38.22	-	-	-	-	0-360	201	H
5	6.446	31.46	PK	35.6	-27.1	39.96	-	-	-	-	0-360	201	V
6	9.637	27.12	PK	37	-21.8	42.32	-	-	-	-	0-360	201	V

PK - Peak detector

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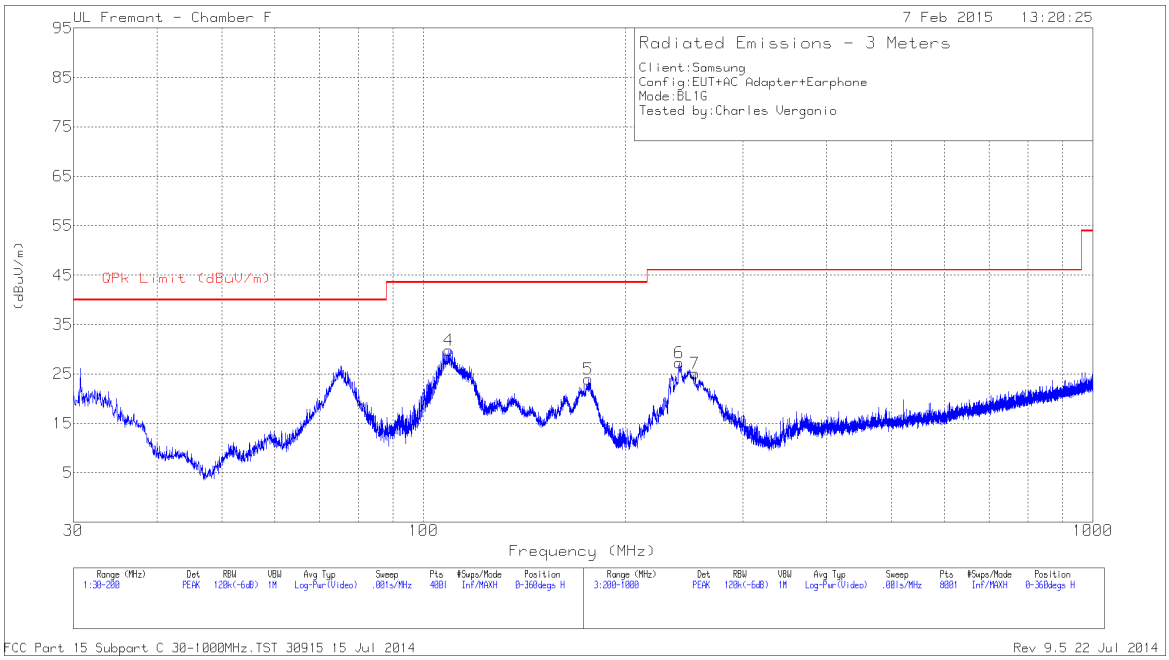
9.3. WORST-CASE BELOW 1 GHz

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

HORIZONTAL PLOT



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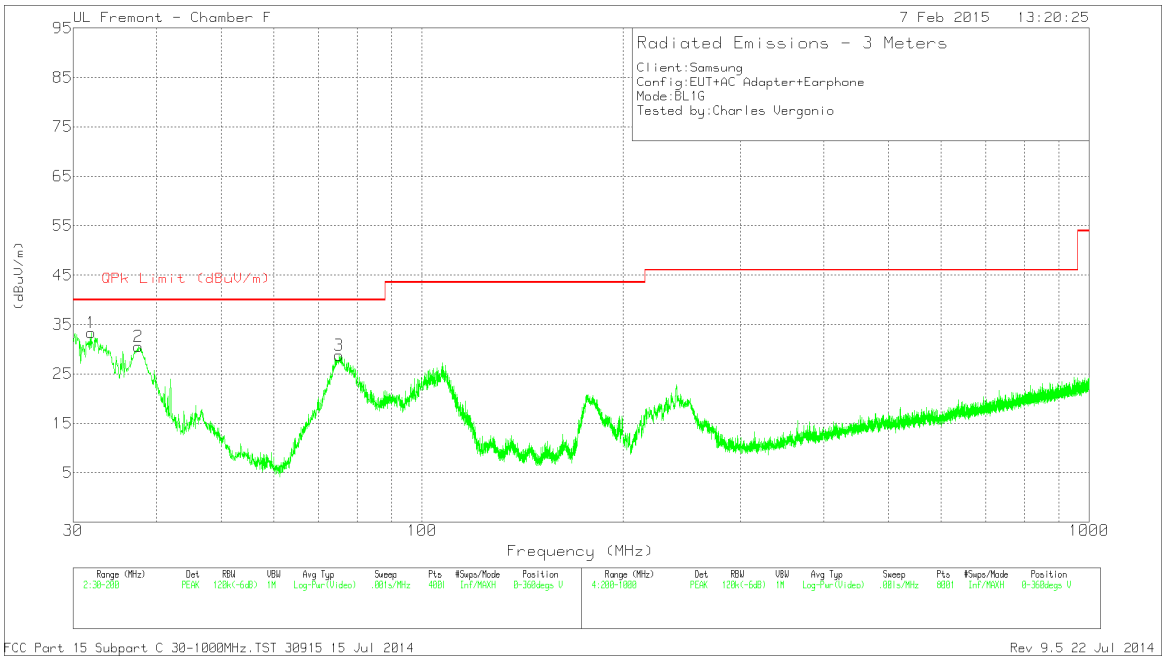
VERTICAL PLOT



WORST CASE BELOW 1GHz DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 109.1775	48.79	PK	12.4	-31.4	29.79	43.52	-13.73	0-360	301	H
5	176.2425	43.6	PK	11.4	-31.1	23.9	43.52	-19.62	0-360	201	H
1	31.9125	45.3	PK	20	-32	33.3	40	-6.7	0-360	100	V
2	* 37.6075	46.81	PK	15.6	-31.9	30.51	40	-9.49	0-360	100	V
3	* 75.135	52.32	PK	8.1	-31.6	28.82	40	-11.18	0-360	100	V
6	* 240.8	46.55	PK	11.6	-30.9	27.25	46.02	-18.77	0-360	100	H
7	* 254.5	44.49	PK	11.5	-30.9	25.09	46.02	-20.93	0-360	100	H

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

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10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE

ANSI C63.4 - 2009

RESULTS

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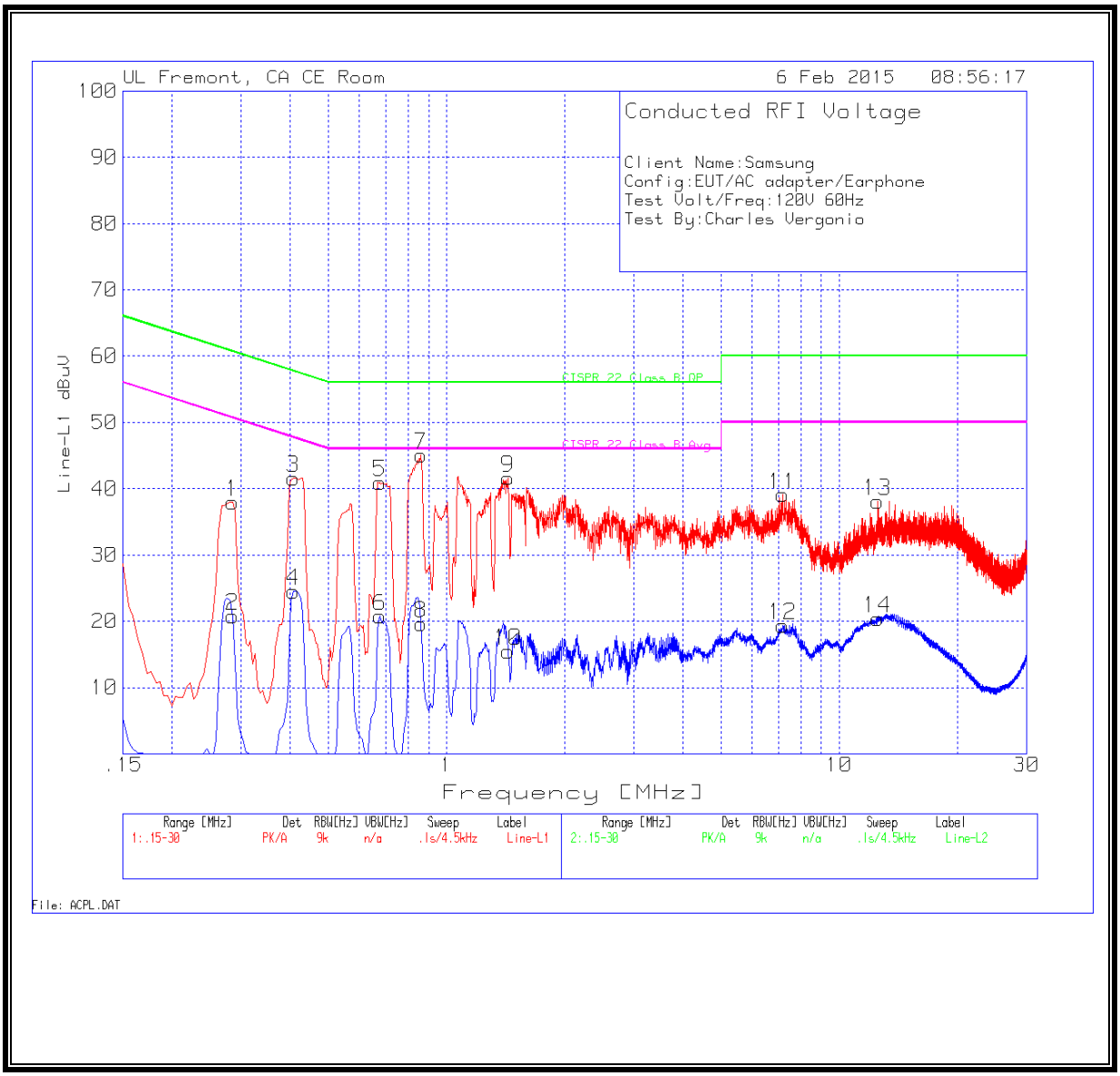
6 WORST EMISSIONS

LINE 1 PLOT



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Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.285	37.4	PK	.6	0	38	60.7	-22.7	-	-
2	.285	20.17	Av	.6	0	20.77	-	-	50.7	-29.93
3	.4065	41.24	PK	.4	0	41.64	57.7	-16.06	-	-
4	.4065	24.18	Av	.4	0	24.58	-	-	47.7	-23.12
5	.6765	40.69	PK	.3	0	40.99	56	-15.01	-	-
6	.6765	20.44	Av	.3	0	20.74	-	-	46	-25.26
7	.861	44.74	PK	.3	0	45.04	56	-10.96	-	-
8	.861	19.34	Av	.3	0	19.64	-	-	46	-26.36
9	1.437	41.35	PK	.2	.1	41.65	56	-14.35	-	-
10	1.437	15.16	Av	.2	.1	15.46	-	-	46	-30.54
11	7.17	38.78	PK	.2	.1	39.08	60	-20.92	-	-
12	7.17	19.05	Av	.2	.1	19.35	-	-	50	-30.65
13	12.543	37.73	PK	.2	.2	38.13	60	-21.87	-	-
14	12.543	20	Av	.2	.2	20.4	-	-	50	-29.6

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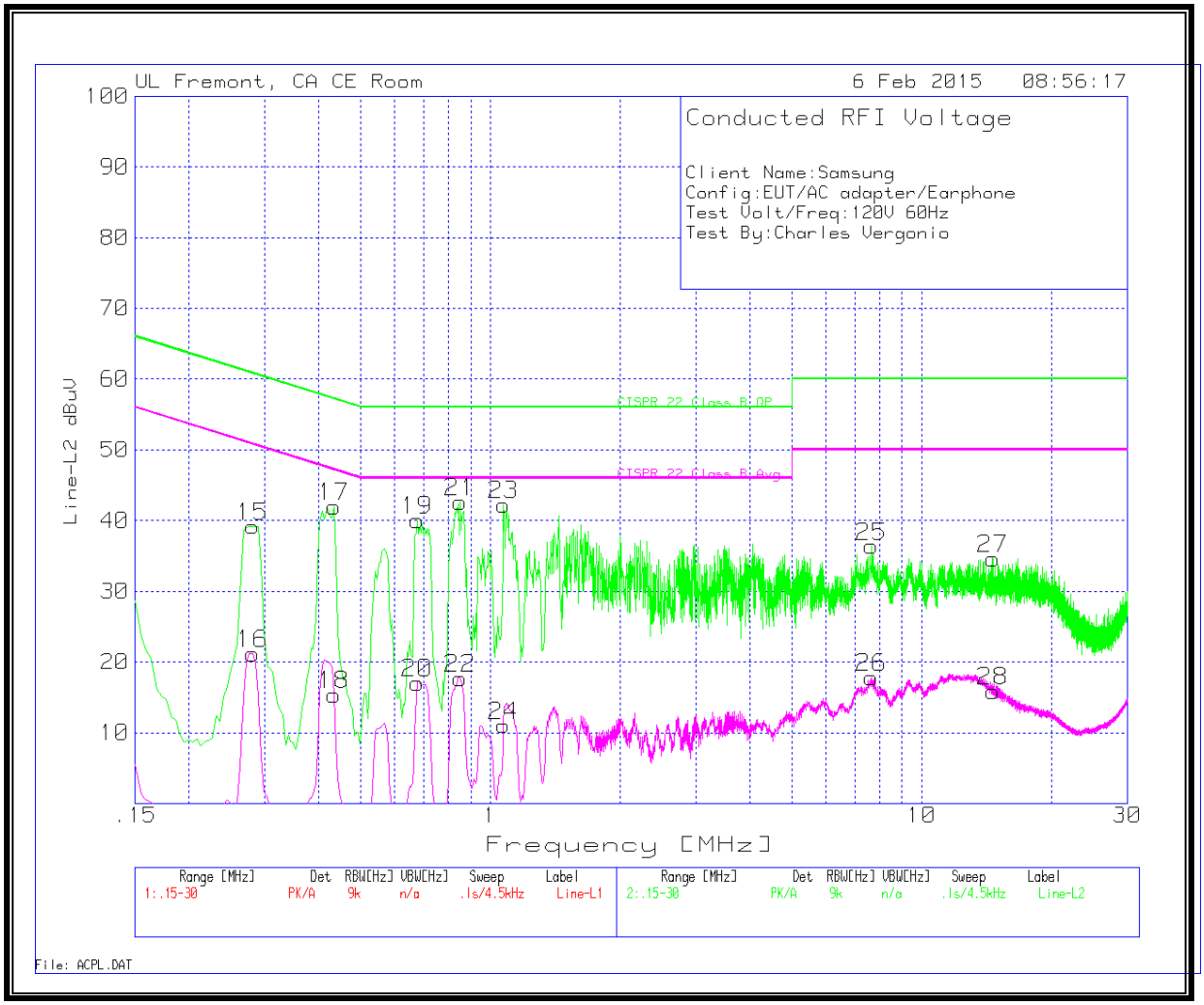
LINE 2 PLOT



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Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
15	.2805	38.6	PK	.6	0	39.2	60.8	-21.6	-	-
16	.2805	20.55	Av	.6	0	21.15	-	-	50.8	-29.65
17	.4335	41.58	PK	.4	0	41.98	57.2	-15.22	-	-
18	.4335	14.94	Av	.4	0	15.34	-	-	47.2	-31.86
19	.6765	39.76	PK	.3	0	40.06	56	-15.94	-	-
20	.6765	16.72	Av	.3	0	17.02	-	-	46	-28.98
21	.852	42.38	PK	.3	0	42.68	56	-13.32	-	-
22	.852	17.37	Av	.3	0	17.67	-	-	46	-28.33
23	1.0725	41.85	PK	.3	.1	42.25	56	-13.75	-	-
24	1.0725	10.64	Av	.3	.1	11.04	-	-	46	-34.96
25	7.638	36.06	PK	.2	.1	36.36	60	-23.64	-	-
26	7.638	17.57	Av	.2	.1	17.87	-	-	50	-32.13
27	14.649	34.17	PK	.2	.2	34.57	60	-25.43	-	-
28	14.649	15.53	Av	.2	.2	15.93	-	-	50	-34.07

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