



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA Phone + Bluetooth & WLAN 2.4GHz b/g/n + NFC

MODEL NUMBER: SM-G3518

FCC ID: A3LSMG3518

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Prepared for

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Revision History

Rev.	Issue Date	Revisions	Revised By
--	12/13/13	Initial Issue	P. Kim
A	1/20/14	Updated summary table; Updated equipment list	P. Kim
B	1/22/14	Updated summary table	

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.

EUT DESCRIPTION: GSM/WCDMA Phone + Bluetooth & WLAN 2.4GHz b/g/n + NFC

MODEL: SM-G3518

SERIAL NUMBER: SM-G3518-A, SM-G3518-B, SM-G3518-C, SM-G3518-D

DATE TESTED: DECEMBER 9-13, 2013

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.

Approved & Released For
UL Verification Services Inc. By:

Tested By:



PHILIP KIM
WiSE PROGRAM MANAGER
UL Verification Services Inc.



STEVEN TRAN
WiSE TEST TECHNICIAN
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.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

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 18000 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 a GSM/WCDMA Phone + Bluetooth & WLAN 2.4GHz b/g/n + NFC.

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	2.11	1.63

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -3.3dBi.

5.4. SOFTWARE AND FIRMWARE

Software version was G3518.001

The firmware used was REV1.0

5.5. 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.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	SM-G3518	DK4DA09TS	N/A
Earphone	Samsung	SM-G3518	N/A	N/A

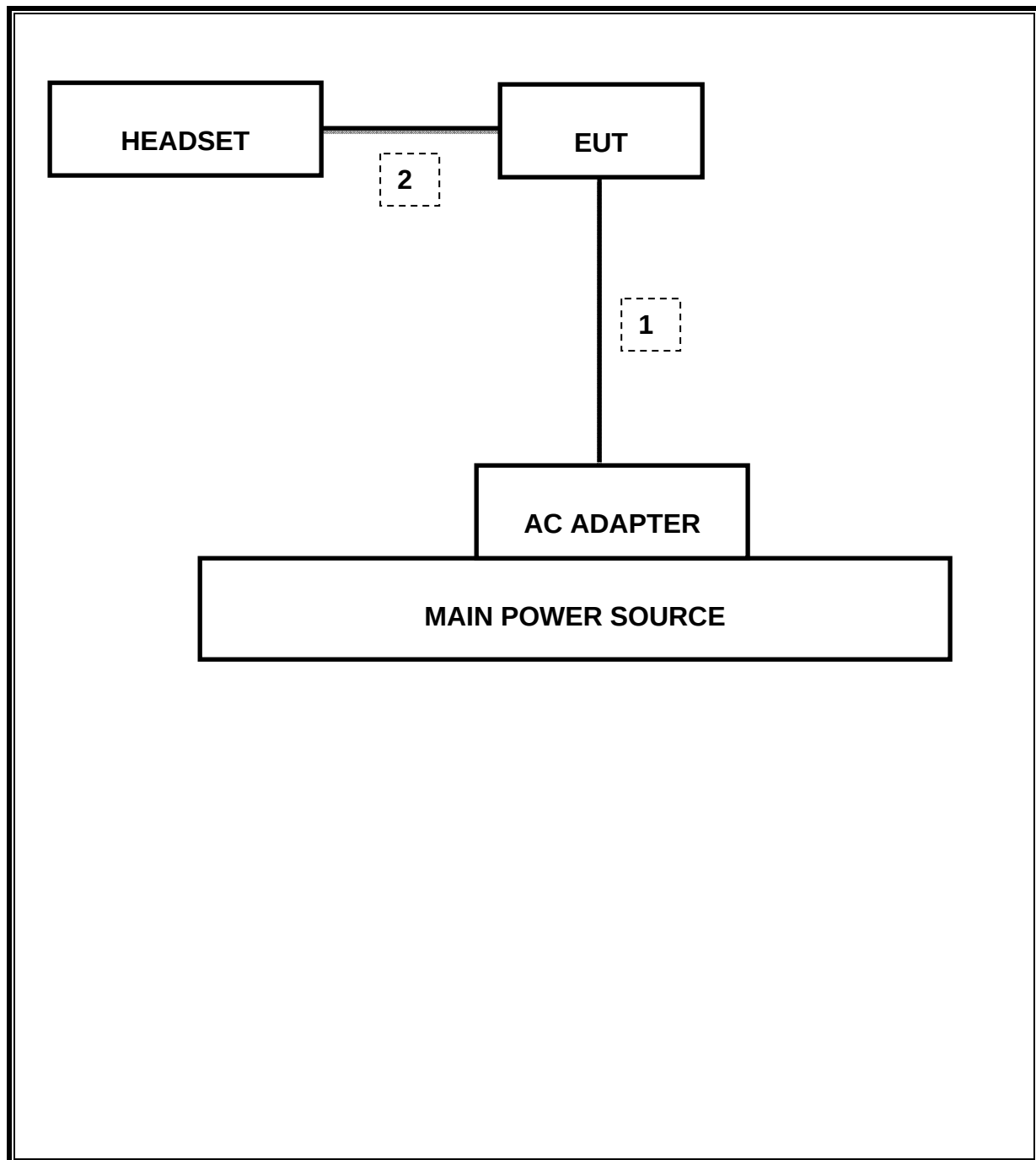
I/O CABLES

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

The EUT is continuously communicating to the Bluetooth tester during the tests. EUT was set in the Hidden menu mode to enable BLE communications.

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
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01016	08/14/13	08/14/14
Antenna, Horn, 18 GHz	EMCO	3115	C00783	10/25/13	10/25/14
Antenna, Horn, 25.5 GHz	ARA	MWH-1826/B	C00980	11/14/13	11/14/14
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00885	01/16/13	01/16/14
Preamplifier, 26.5 GHz	Agilent / HP	8449B	F00167	03/23/13	03/23/14
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01012	10/21/13	10/21/14
PXA SIGNAL ANALYZER	Agilent / HP	N9030A	N/A		05/09/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/13	08/08/14
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/13	01/14/14
Reject Filter, 2.4GHz	Micro-Tronics	BRM50702	N02684	CNR	CNR
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/2013	12/13/2014
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/2013	12/13/2014

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	659KHz
2.1051, 15.247 (d)	RSS-210 A8.5	Band Edge / Conducted Spurious Emission	-20dBc		Pass	-58.47 dBc
15.247	RSS-210 A8.4	TX conducted output power	<30dBm		Pass	2.11 dBm
15.247	RSS-210 A8.2	PSD	<8dBm		Pass	-13.09 dBm
15.207 (a)	RSS-GEN 7.2.2	AC Power Line conducted emissions	Section 10	Radiated	Pass	31.18dBuV(AV)
15.205, 15.209	RSS-210 Clause 2.6, RSS-210 Clause 6	Radiated Spurious Emission	< 54dBuV/m		Pass	52.07 dBuV/m

ANTENNA PORT TEST RESULTS

8.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

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

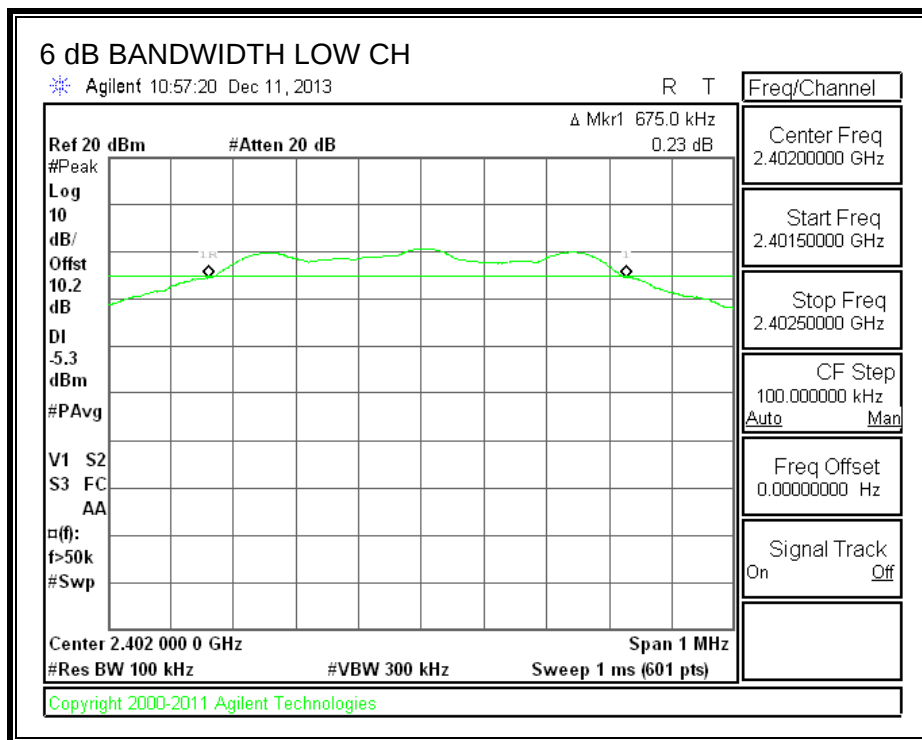
TEST PROCEDURE

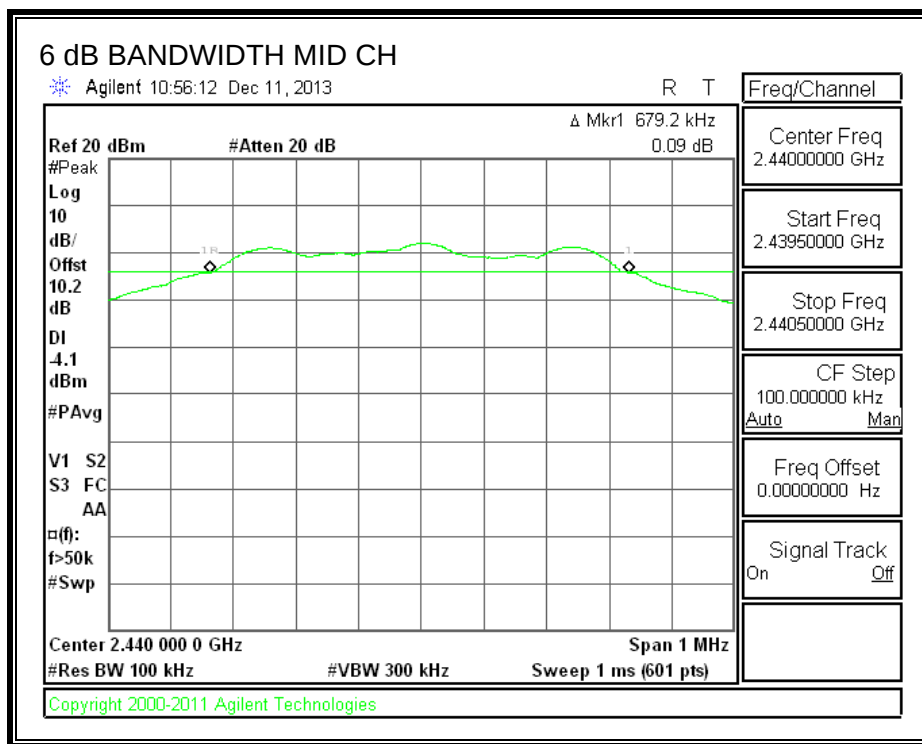
The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

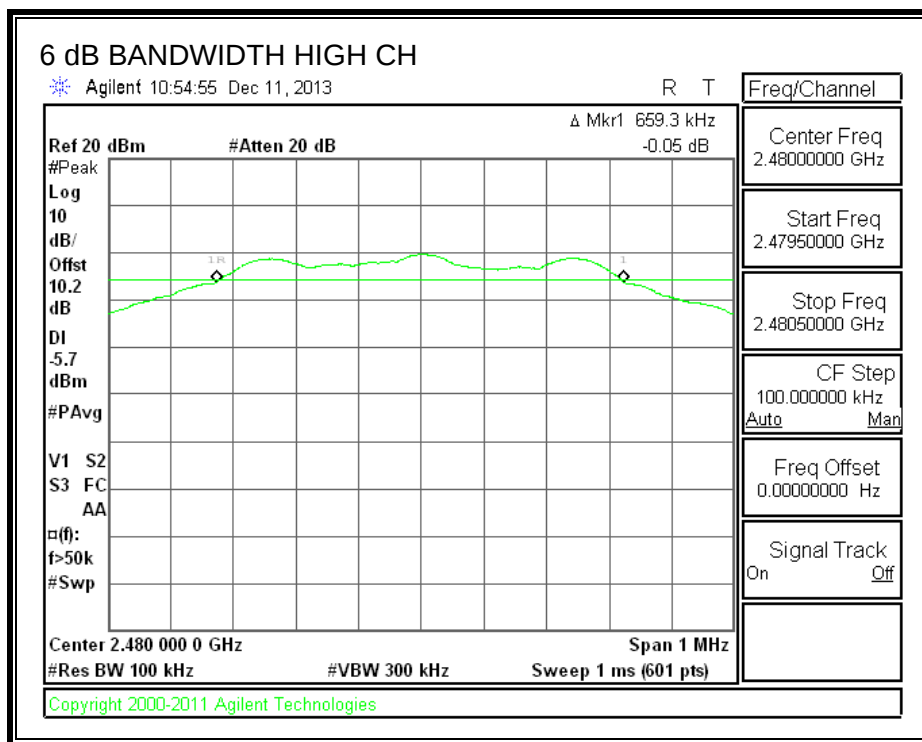
RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.6750	0.5
Middle	2440	0.6790	0.5
High	2480	0.6590	0.5

6 dB BANDWIDTH







8.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

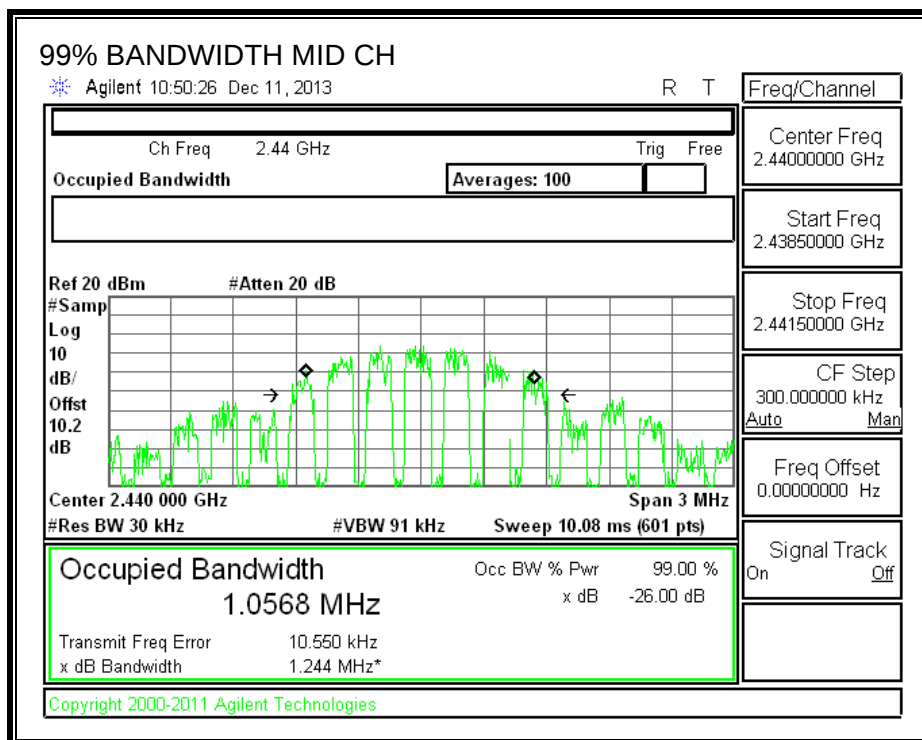
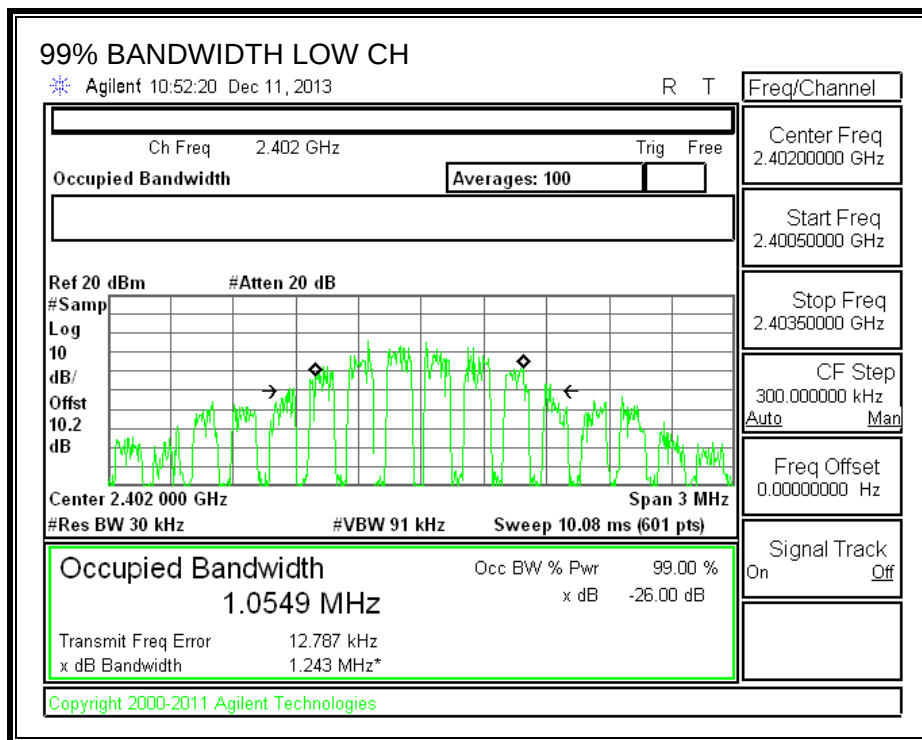
TEST PROCEDURE

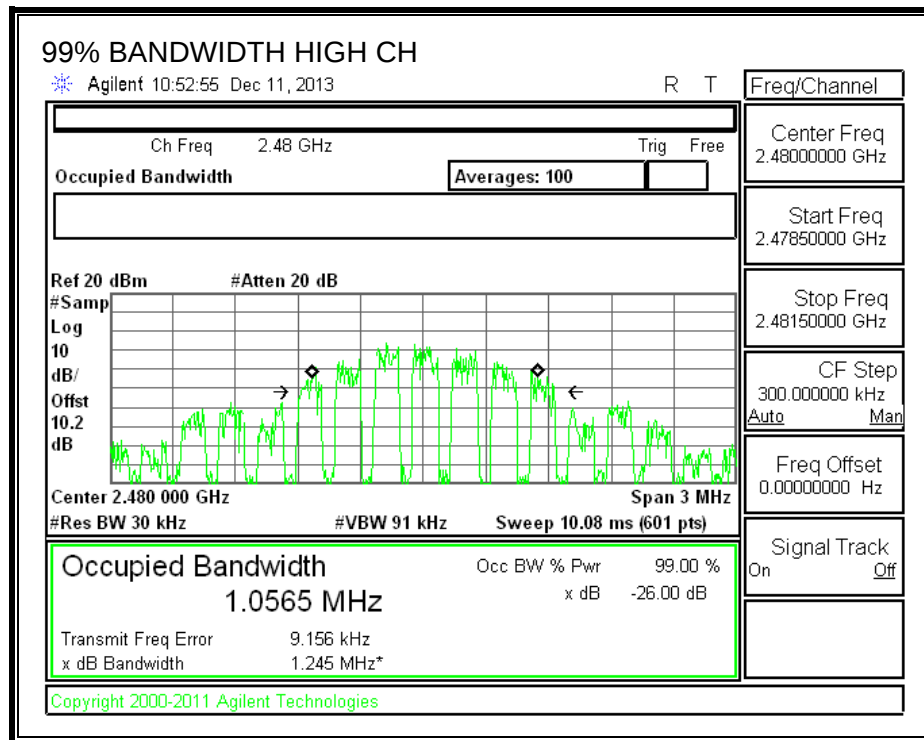
Reference to KDB558074: The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0549
Middle	2440	1.0568
High	2480	1.0565

99% BANDWIDTH





8.3. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-210 A8.4

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

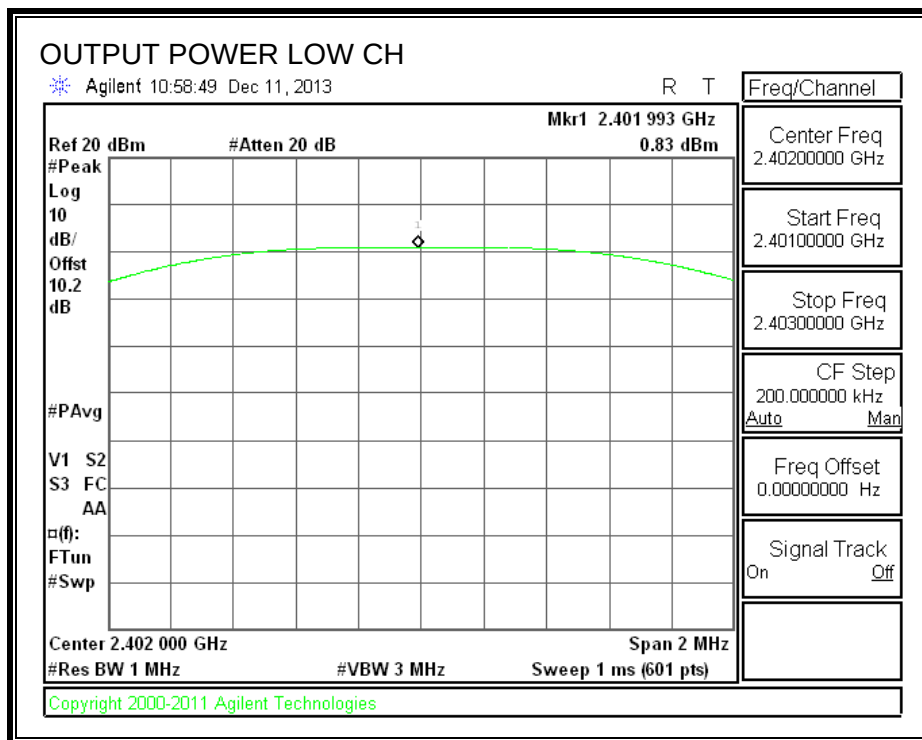
TEST PROCEDURE

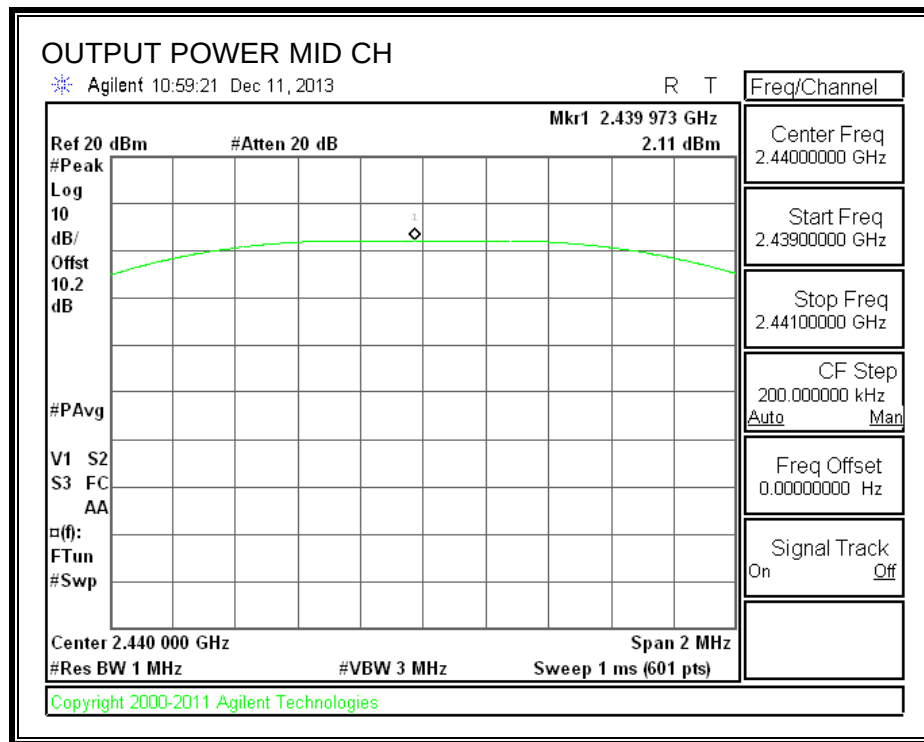
Peak power is measured using KDB558074 April 9, 2013 under section 9.1.1 utilizing spectrum analyzer.

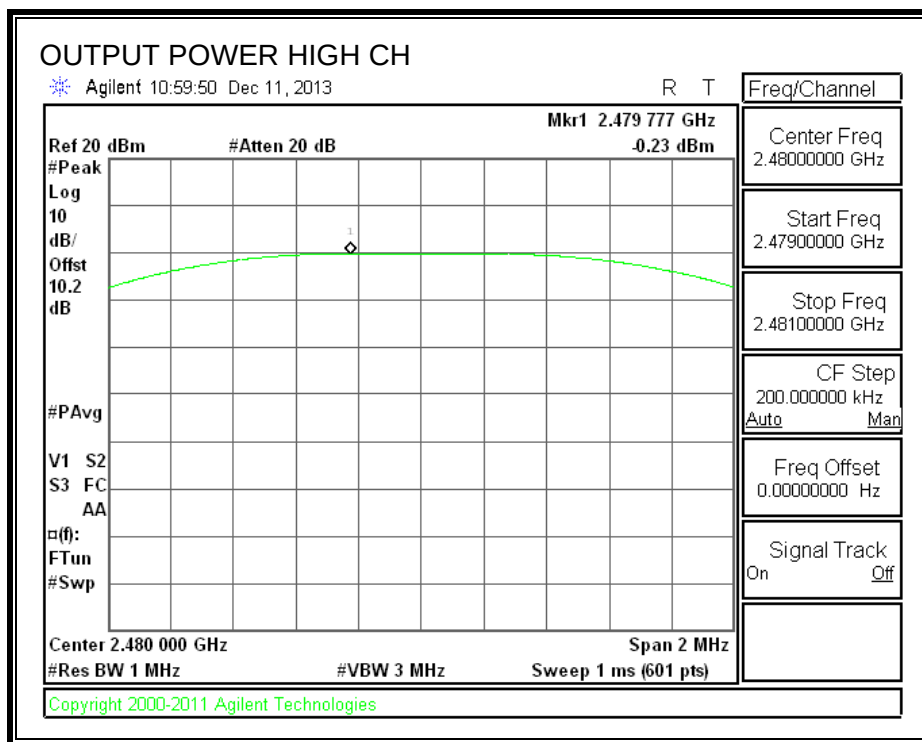
RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	0.830	30	-29.170
Middle	2440	2.110	30	-27.890
High	2480	-0.230	30	-30.230

OUTPUT POWER







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	-1.78
Middle	2440	-0.44
High	2480	-2.80

8.5. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

IC RSS-210 A8.2 (b)

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.

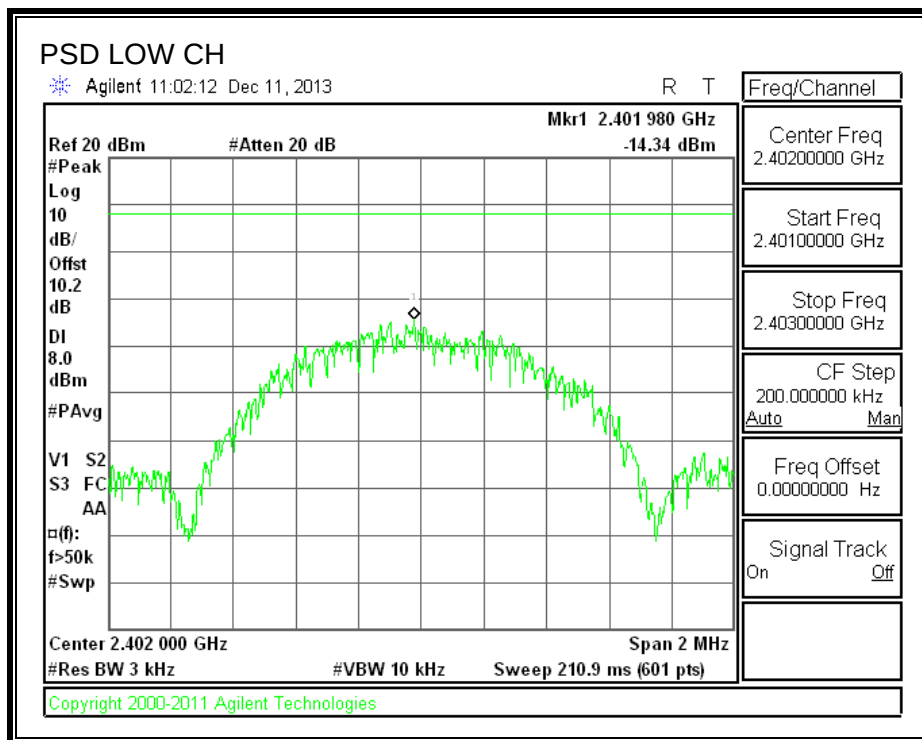
TEST PROCEDURE

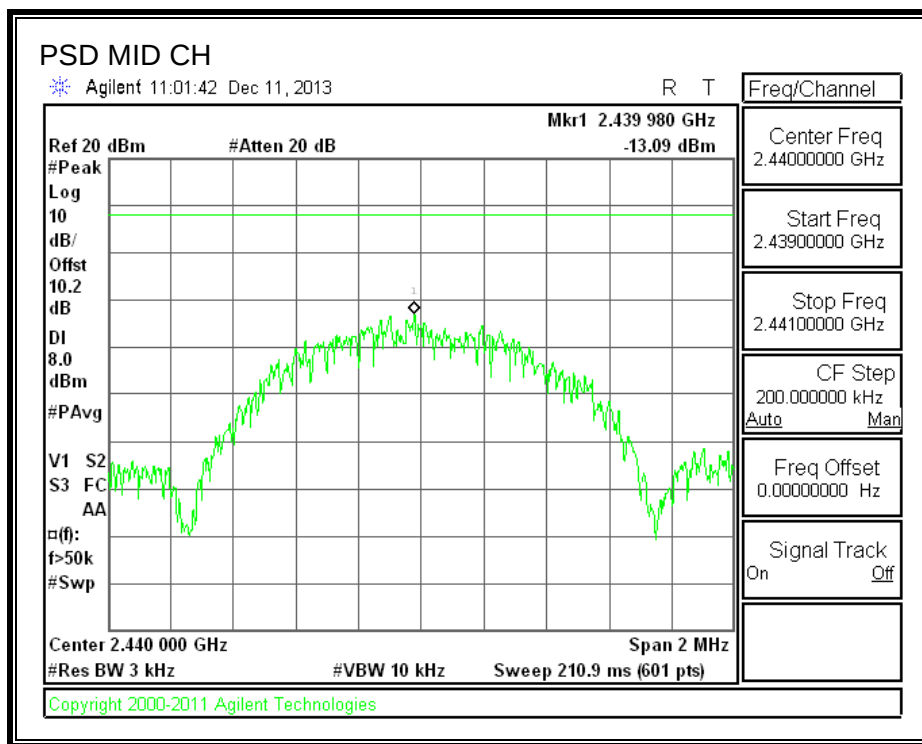
Power Spectral Density was performed utilizing the "Method PKPSD (Peak PSD)" under KDB558074, April 9, 2013

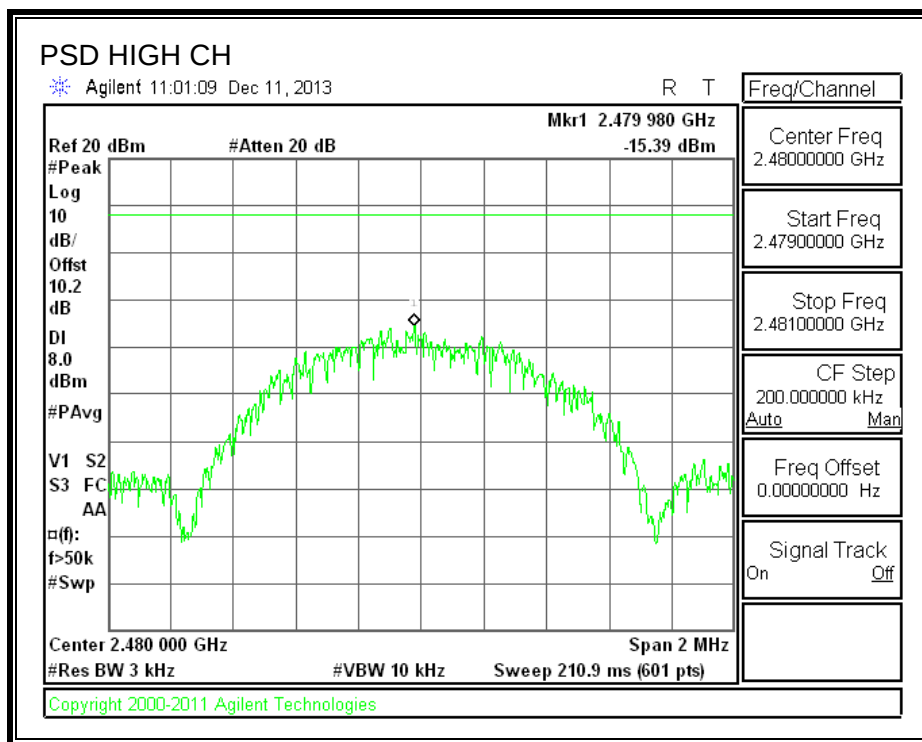
RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-14.34	8	-22.34
Middle	2440	-13.09	8	-21.09
High	2480	-15.39	8	-23.39

POWER SPECTRAL DENSITY







8.6. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

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

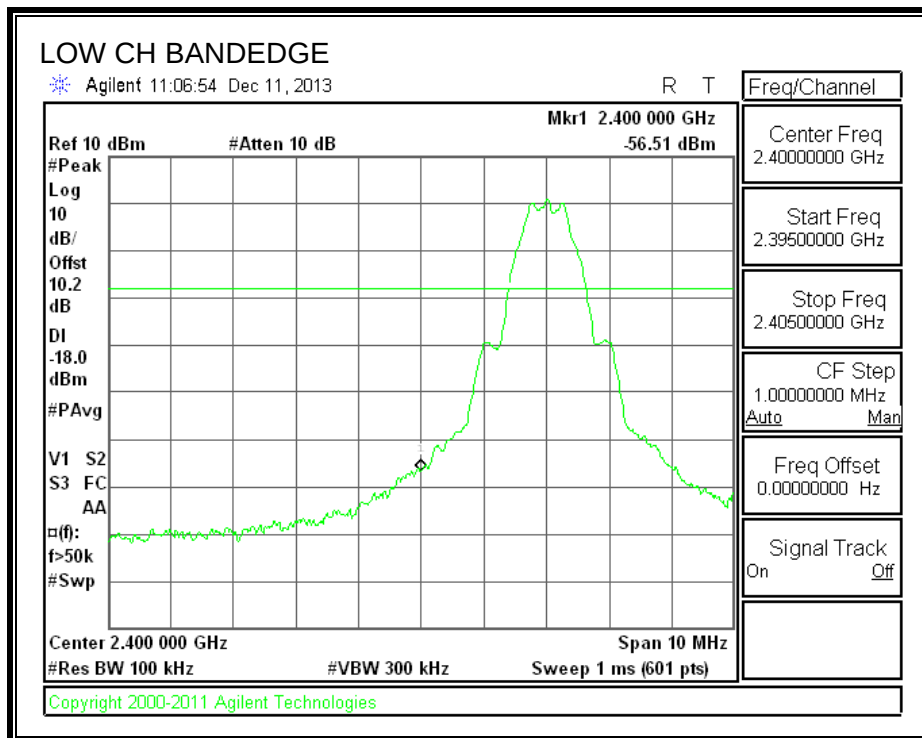
TEST PROCEDURE

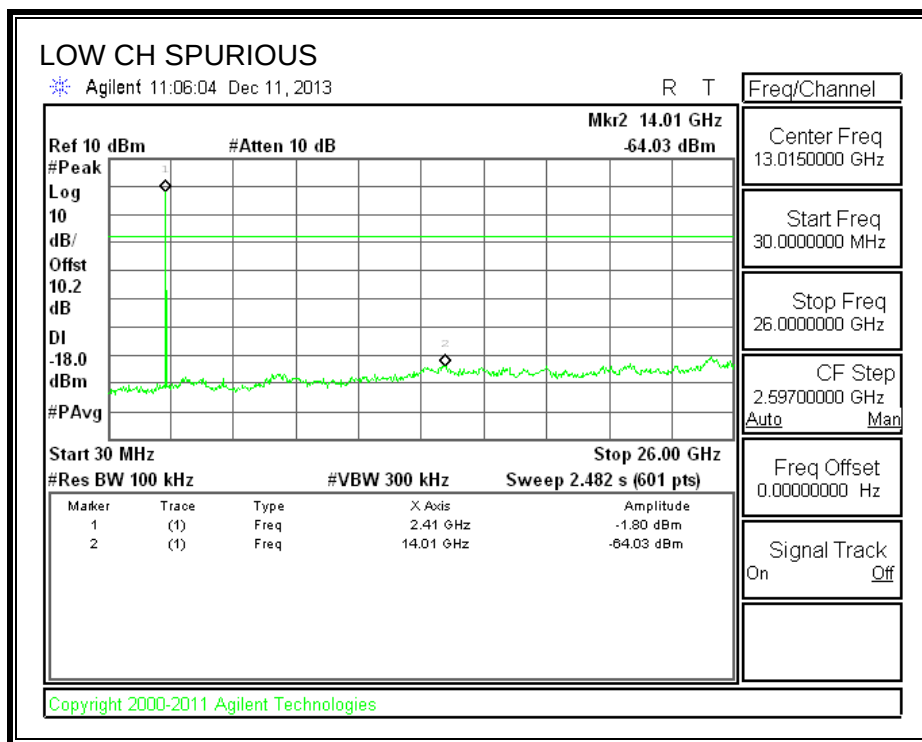
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

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

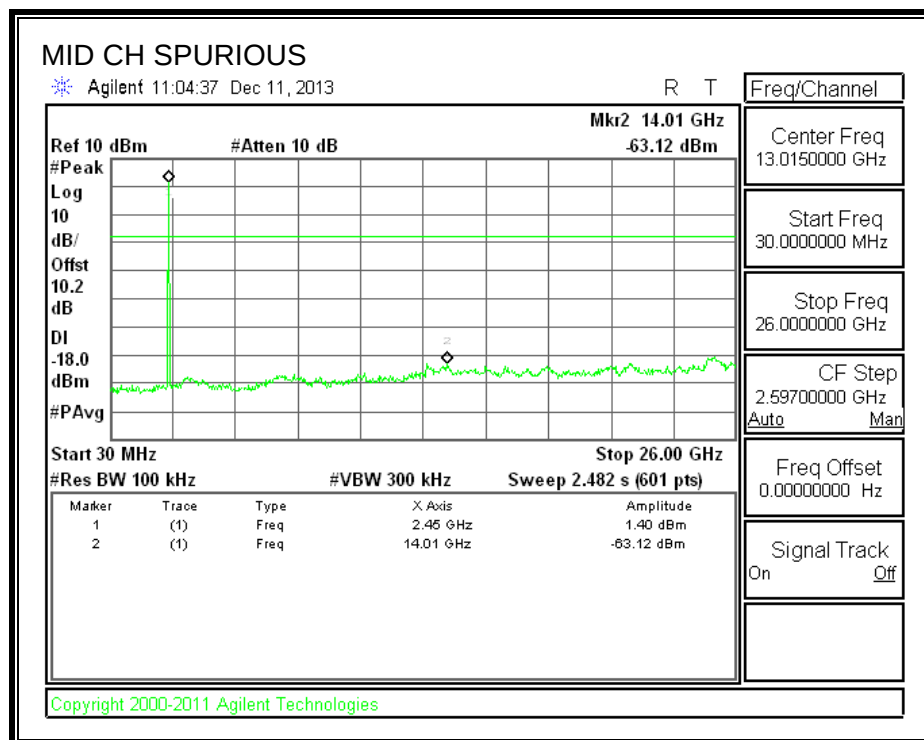
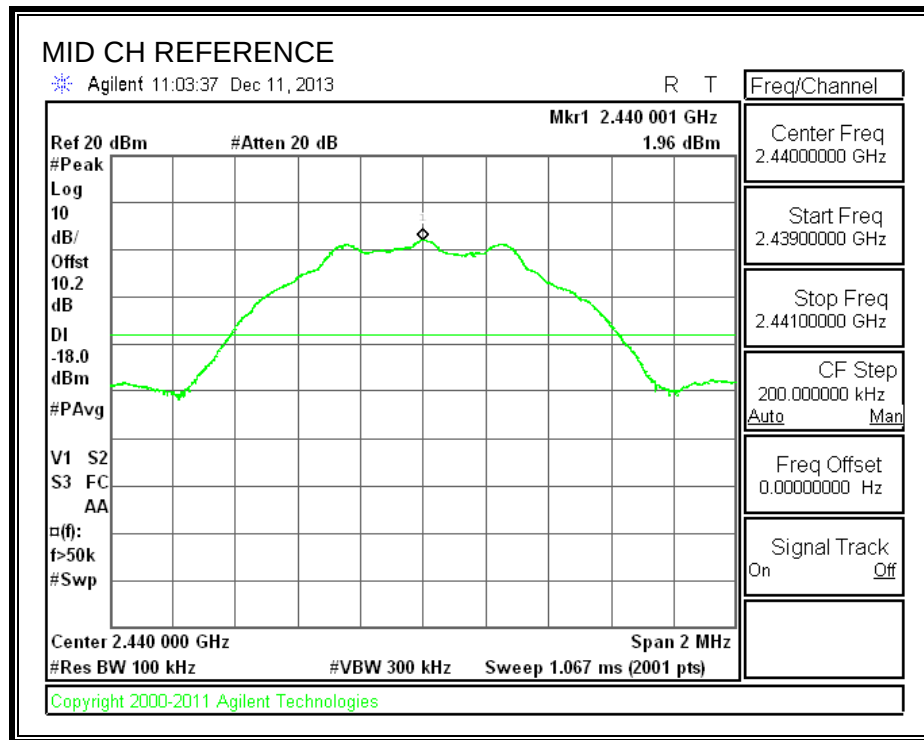
RESULTS

SPURIOUS EMISSIONS, LOW CHANNEL

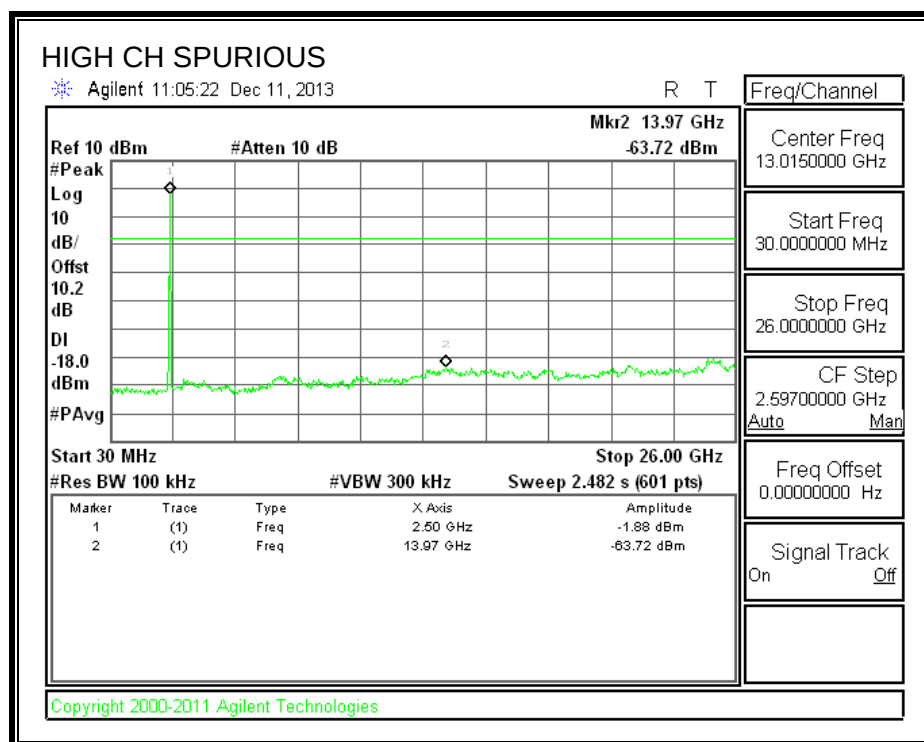
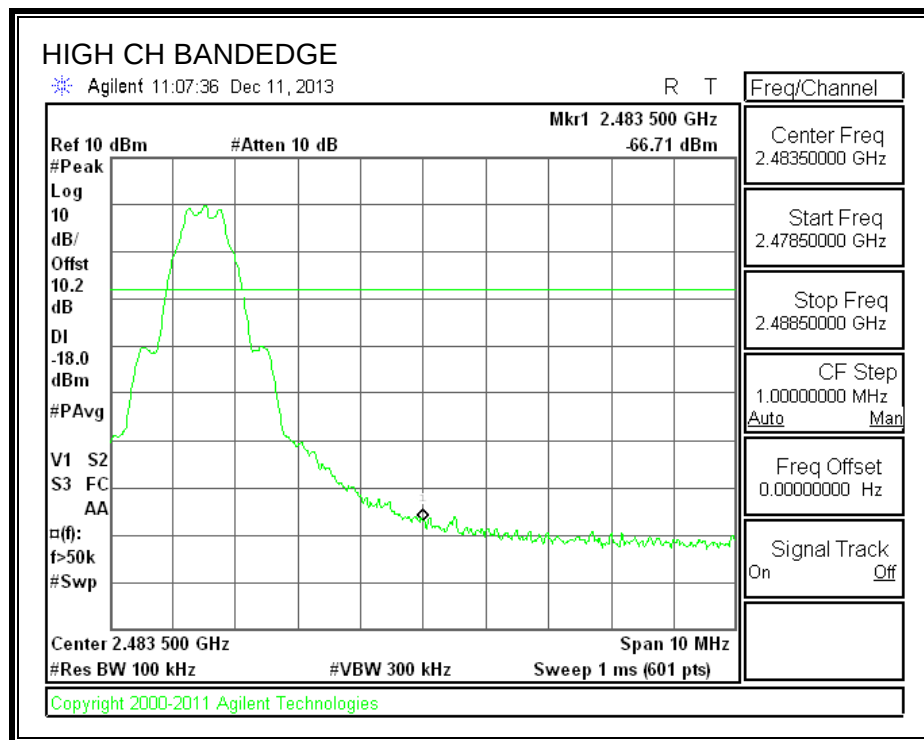




SPURIOUS EMISSIONS, MID CHANNEL



SPURIOUS EMISSIONS, HIGH CHANNEL



9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

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 = $10 \log (1/0.628) = 2.02 \text{ dB}$ (Spectrum Analyzer round it up to 2.02dB)

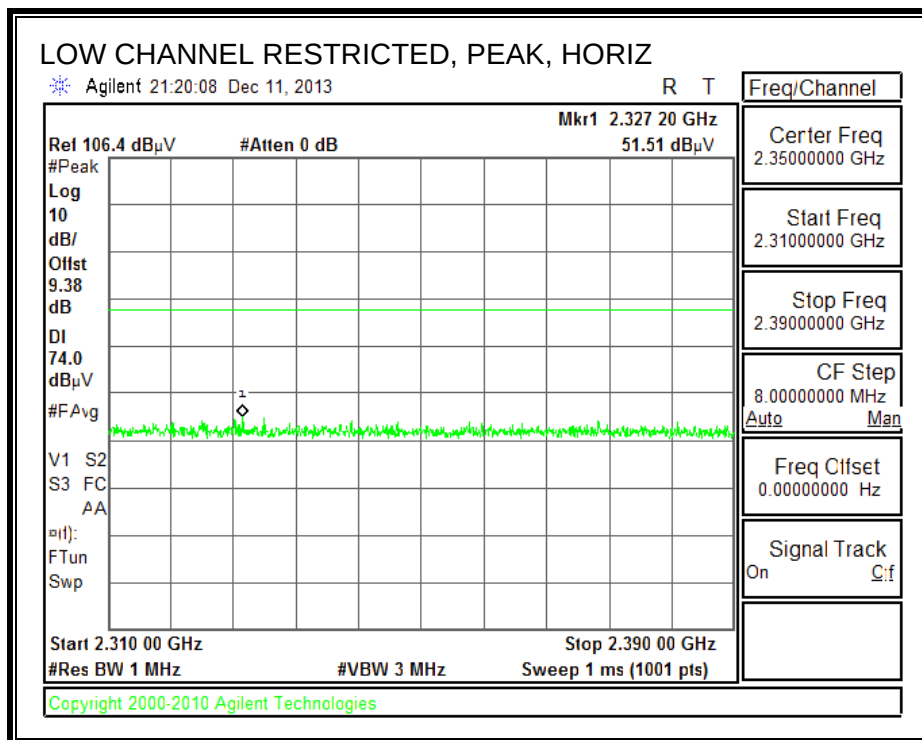
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

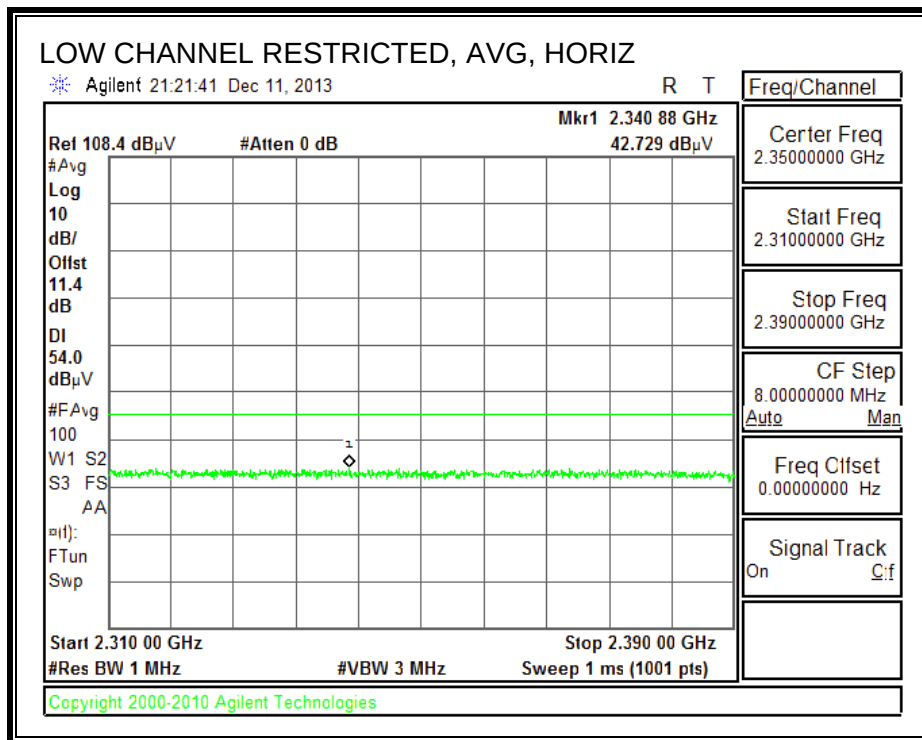
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

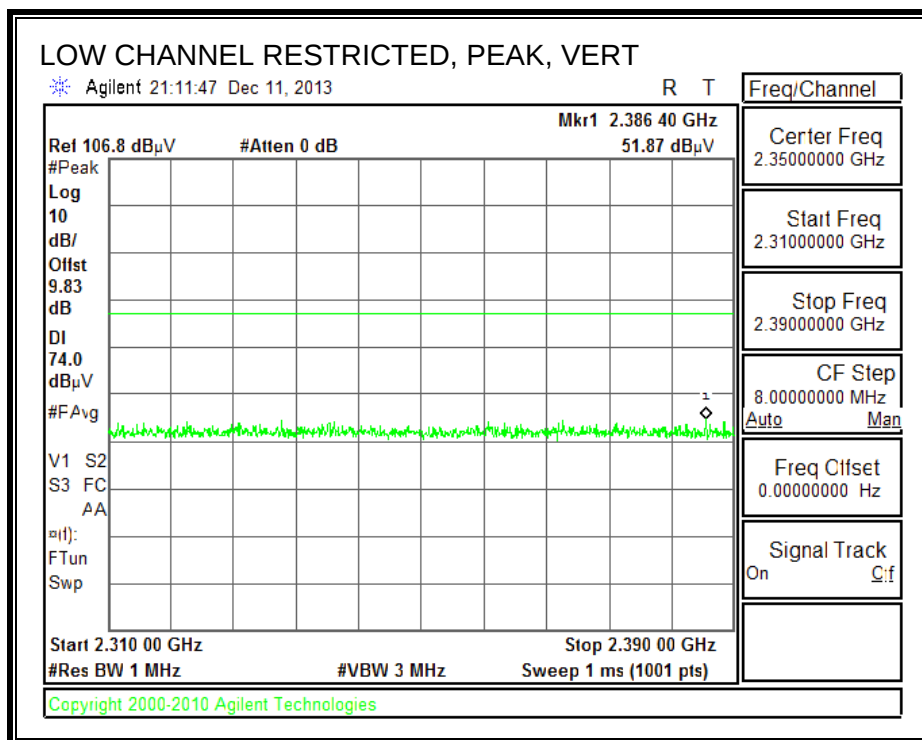
9.2. TRANSMITTER ABOVE 1 GHz

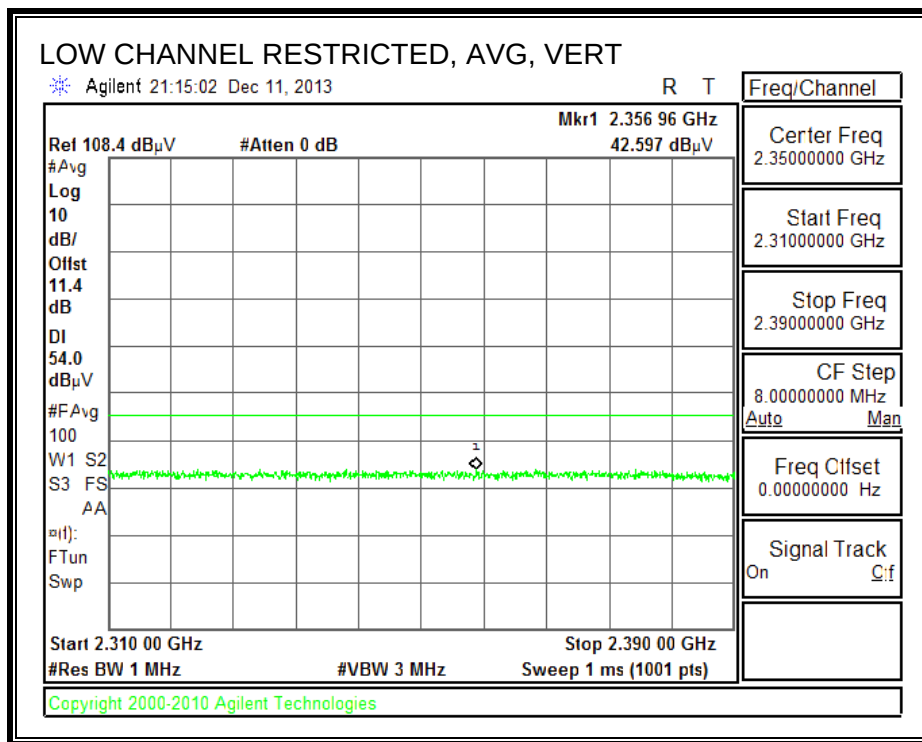
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



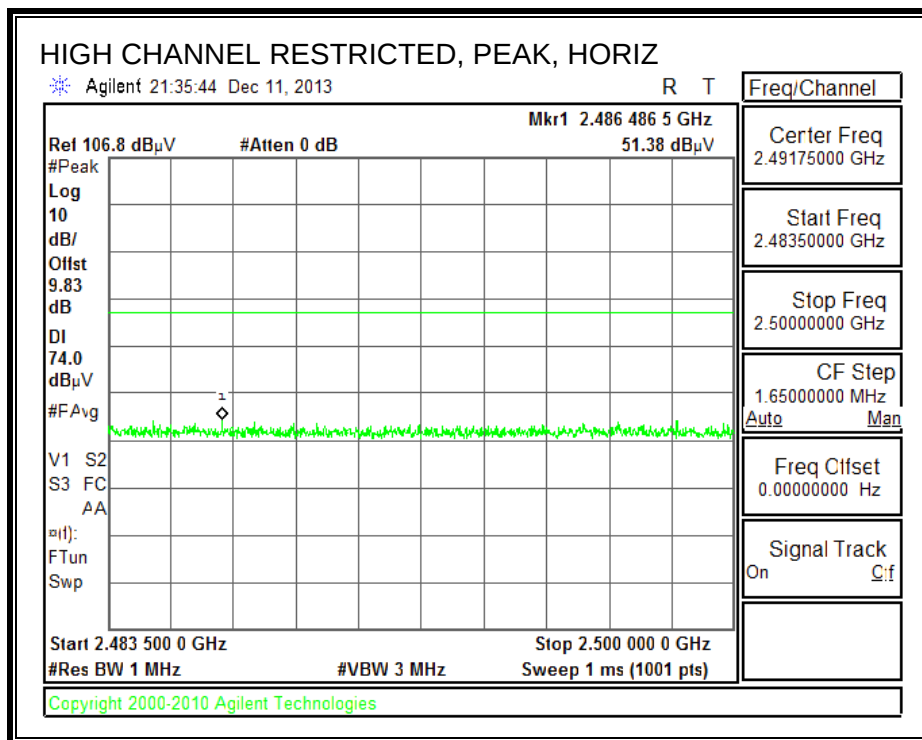


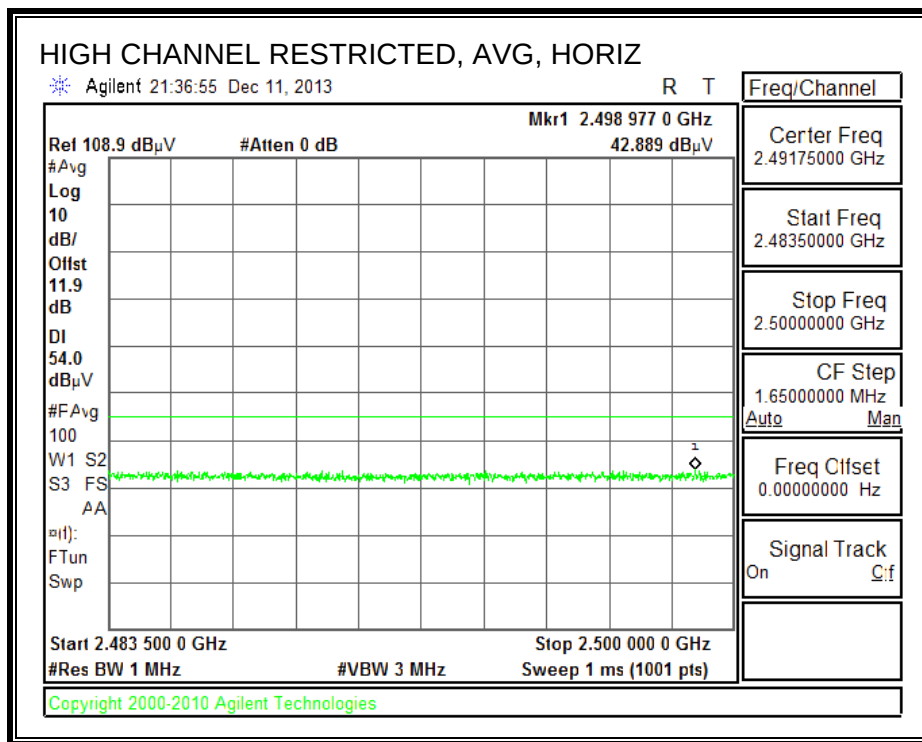
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

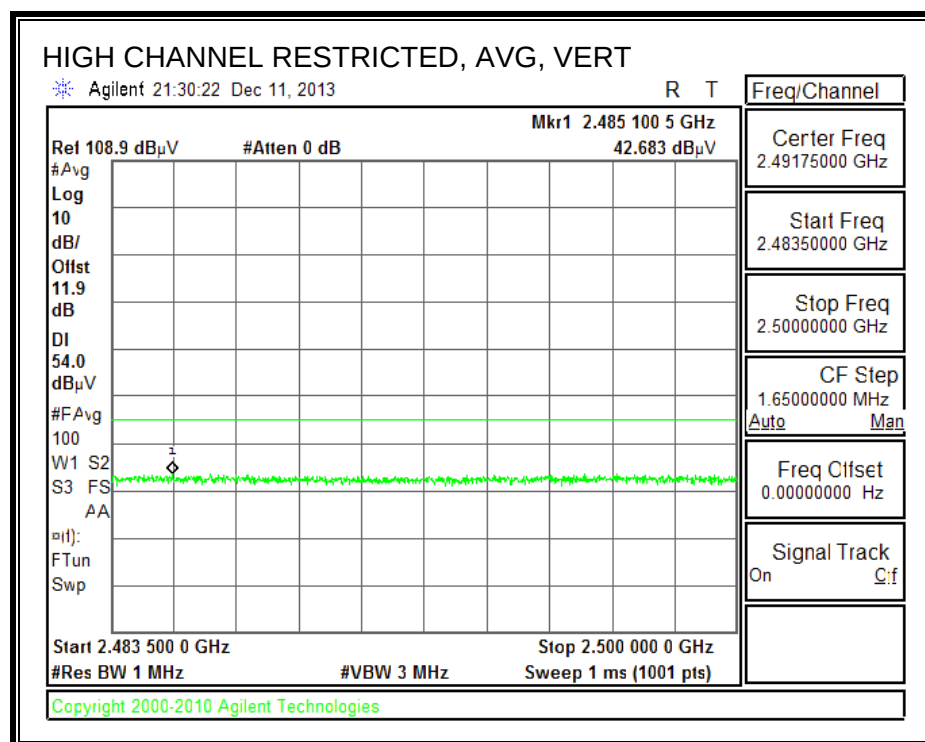
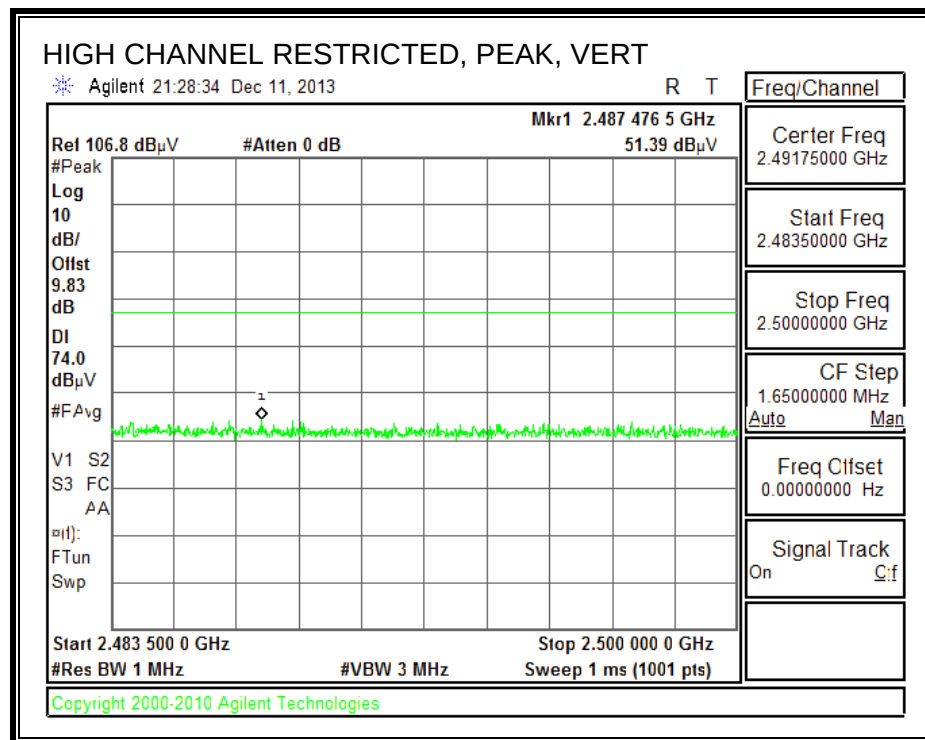




RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)

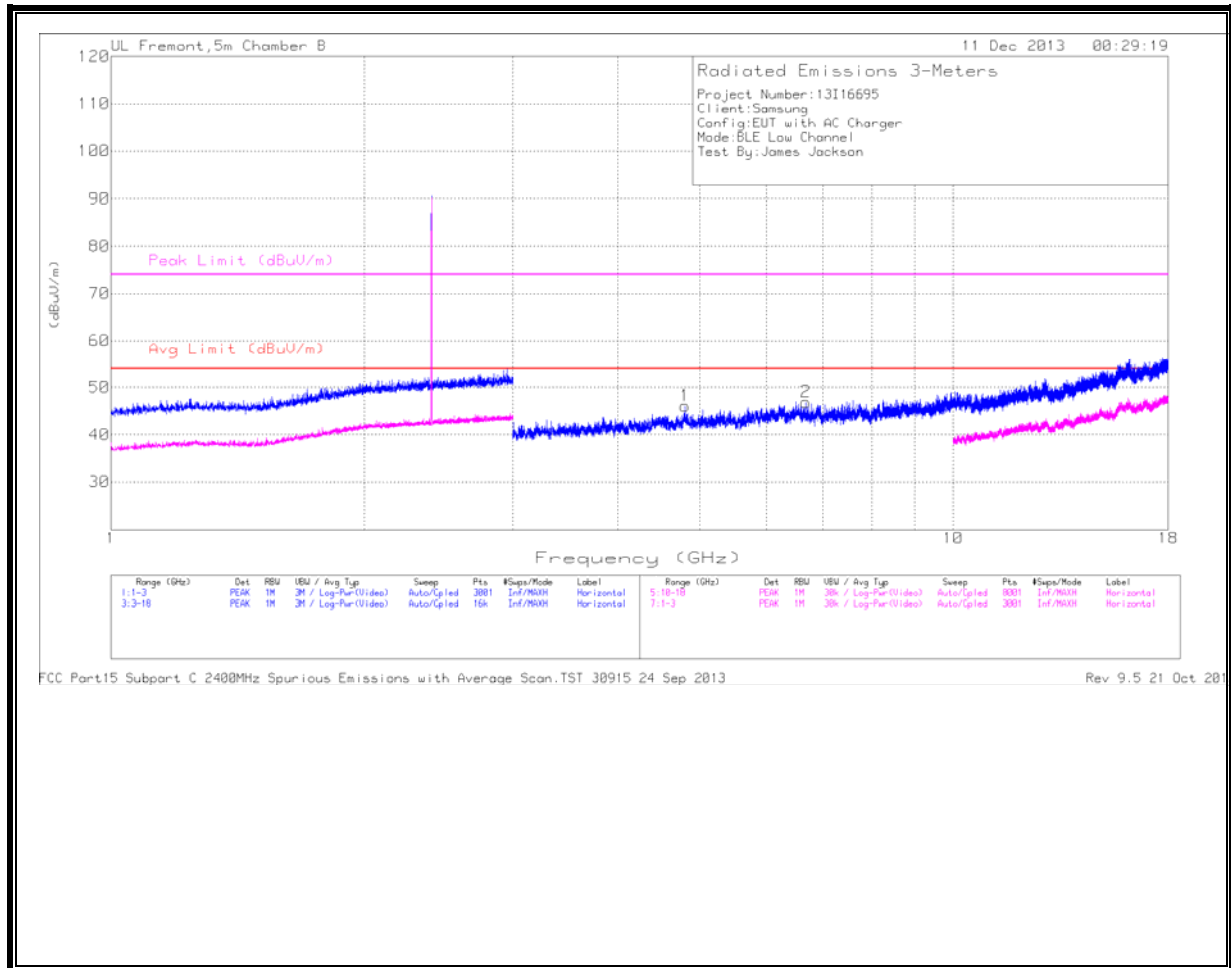






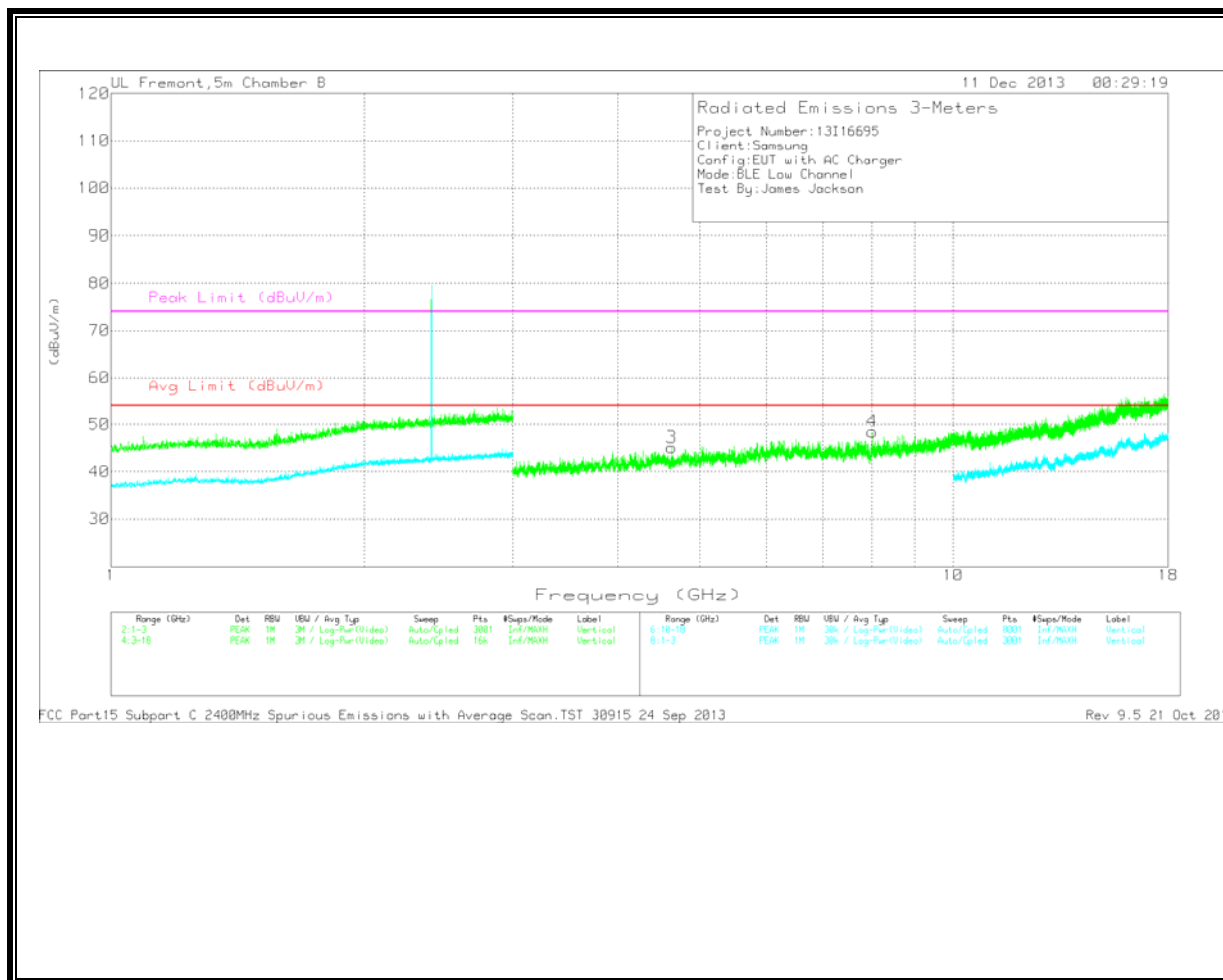
HARMONICS AND SPURIOUS EMISSIONS

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.

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.

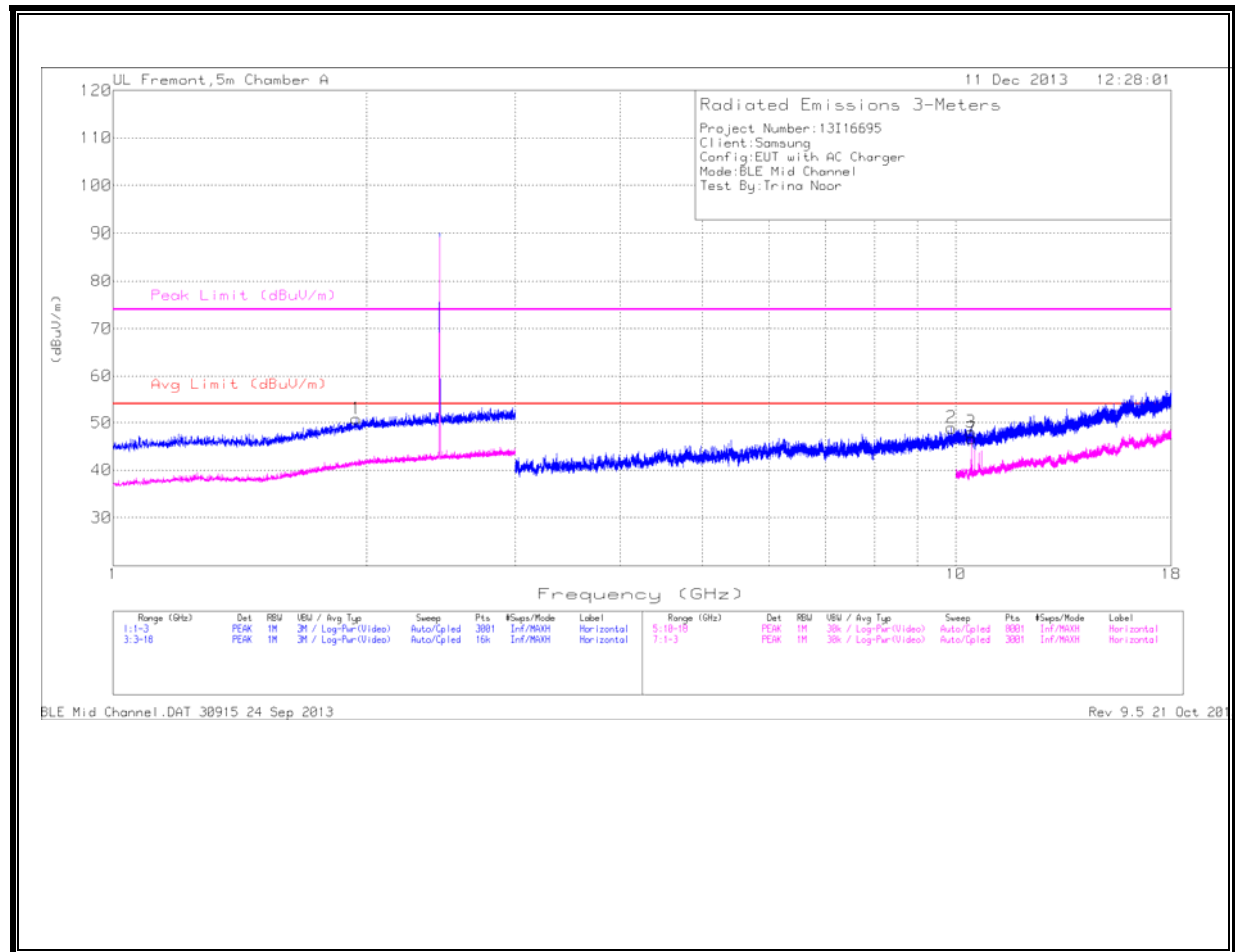
LOW CHANNEL DATA
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb l/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	4.632	41.21	PK	34.6	-30.7	45.11	53.97	-8.86	74	-28.89	0-360	202	V
1	4.807	40.29	PK	34.7	-28.9	46.09	53.97	-7.88	74	-27.91	0-360	99	H
2	6.687	40.18	PK	35.8	-29.1	46.88	53.97	-7.09	74	-27.12	0-360	201	H
4	8.017	39.18	PK	36.1	-26.8	48.48	53.97	-5.49	74	-25.52	0-360	202	V

PK - Peak detector

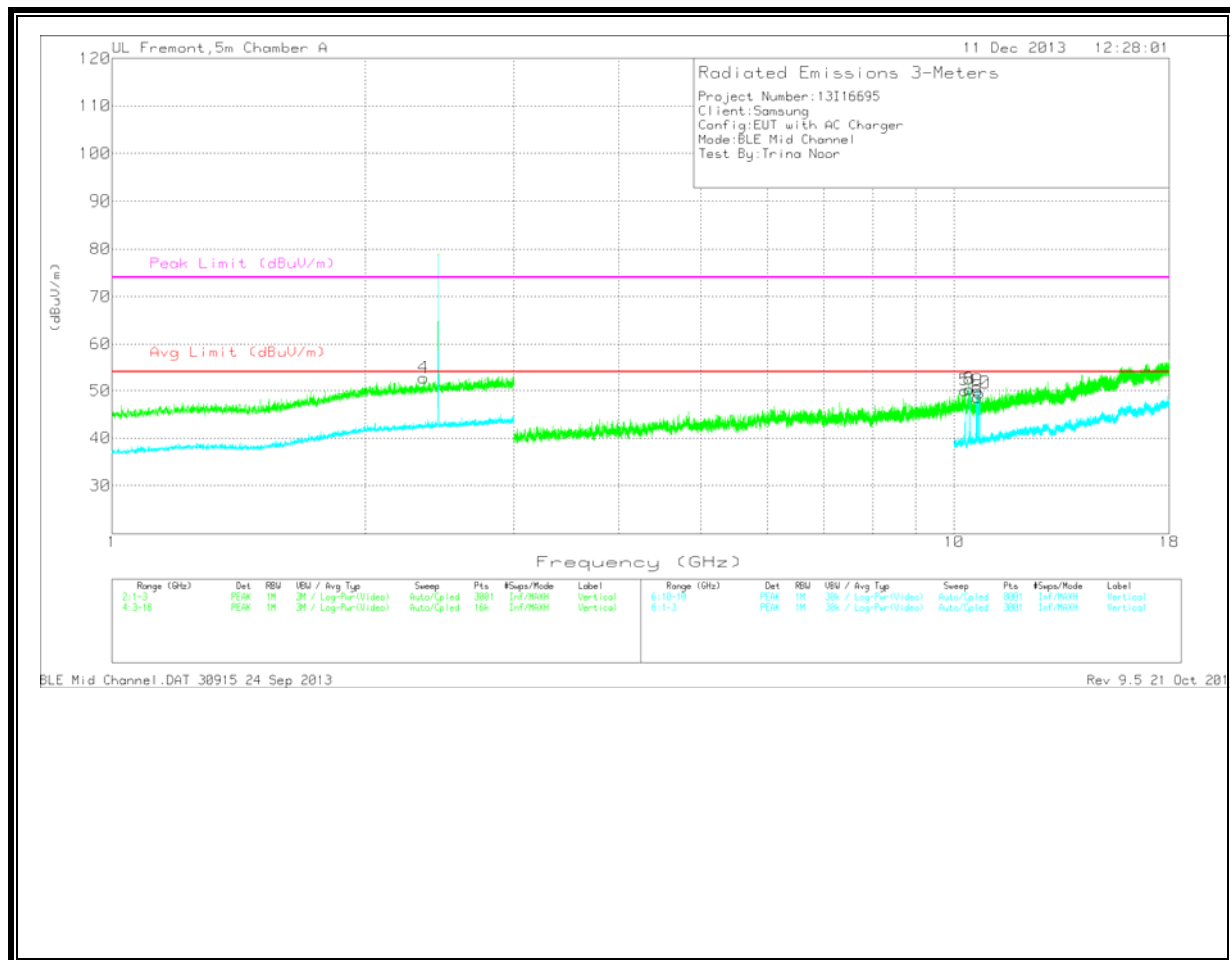
MID CHANNEL

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.

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

Trace Markers

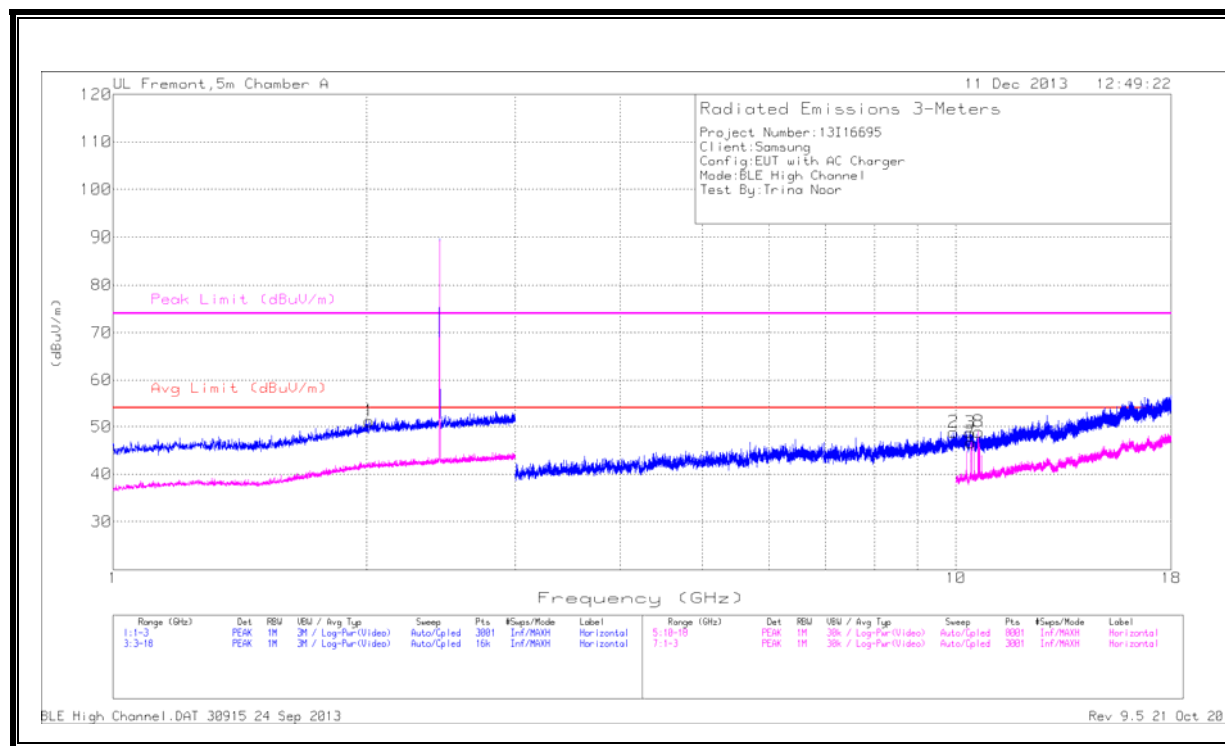
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb I/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.944	43.01	PK	31.4	-23.6	50.81	53.97	-3.16	74	-23.19	0-360	201	H
4	2.344	43.4	PK	32.3	-23	52.7	53.97	-1.27	74	-21.3	0-360	202	V
2	9.873	35.42	PK	37.6	-24.1	48.92	53.97	-5.05	74	-25.08	0-360	201	H
5	10.296	35.86	PK	38	-23.8	50.06	53.97	-3.91	74	-23.94	0-360	99	V
3	10.419	33.3	PK	38.1	-23.4	48	53.97	-5.97	74	-26	0-360	201	H
8	10.421	35.51	Avg	38.1	-23.3	50.31	53.97	-3.66	74	-23.69	0-360	99	V
7	10.439	31.5	Avg	38.2	-23.1	46.6	53.97	-7.37	74	-27.4	0-360	99	H
6	10.649	33.55	PK	38.3	-23.2	48.65	53.97	-5.32	74	-25.35	0-360	202	V
9	10.665	34.98	Avg	38.3	-23.2	50.08	53.97	-3.89	74	-23.92	0-360	202	V
10	10.716	34.41	Avg	38.3	-23.2	49.51	53.97	-4.46	74	-24.49	0-360	202	V

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

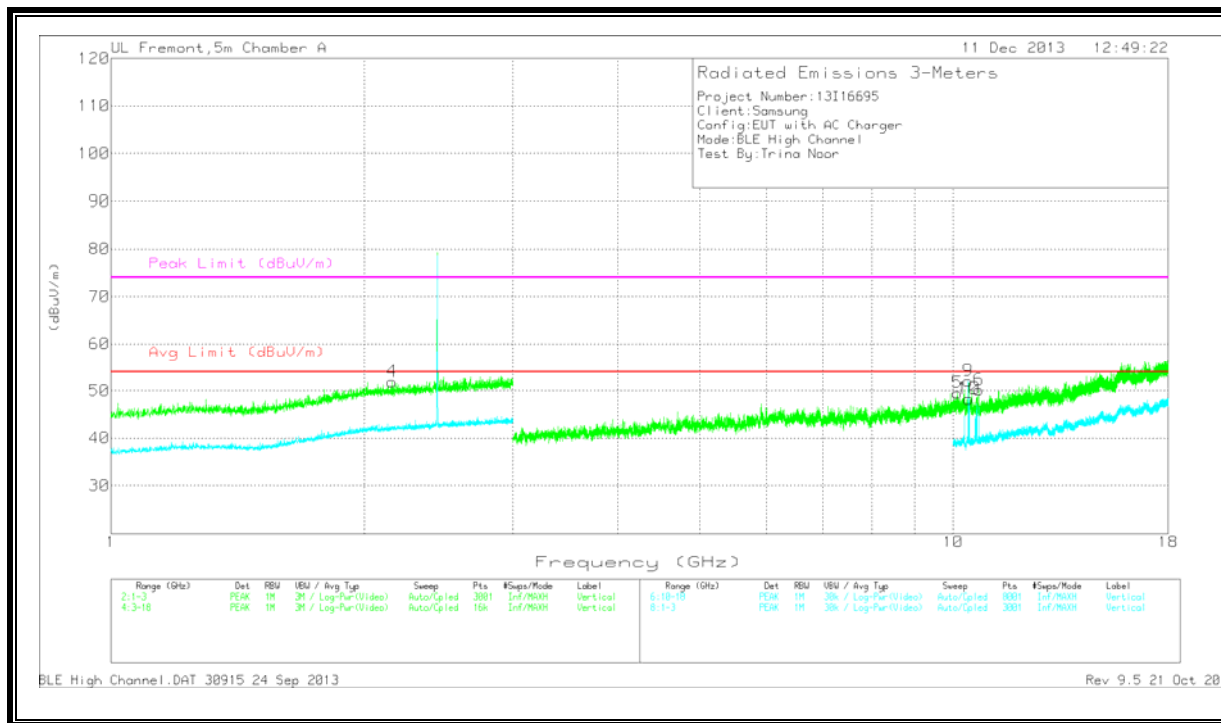
BLE Mid Channel.DAT 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

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.

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 Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb I/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.013	42.86	PK	31.8	-23.5	51.16	53.97	-2.81	74	-22.84	0-360	99	H
4	2.156	43.1	PK	32	-23.2	51.9	53.97	-2.07	74	-22.1	0-360	99	V
2	9.934	35.02	PK	37.7	-23.9	48.82	53.97	-5.15	74	-25.18	0-360	201	H
5	10.117	35.43	PK	37.9	-23.8	49.53	53.97	-4.44	74	-24.47	0-360	202	V
3	10.389	33.9	PK	38.1	-23.3	48.7	53.97	-5.27	74	-25.3	0-360	201	H
9	10.42	37.37	Avg	38.1	-23.4	52.07	53.97	-1.9	74	-21.93	0-360	202	V
7	10.421	31.88	Avg	38.1	-23.3	46.68	53.97	-7.29	74	-27.32	0-360	99	H
10	10.438	33.18	Avg	38.2	-23.1	48.28	53.97	-5.69	74	-25.72	0-360	202	V
8	10.64	33.92	Avg	38.3	-23.3	48.92	53.97	-5.05	74	-25.08	0-360	201	H
6	10.725	35.15	PK	38.3	-23.3	50.15	53.97	-3.82	74	-23.85	0-360	99	V

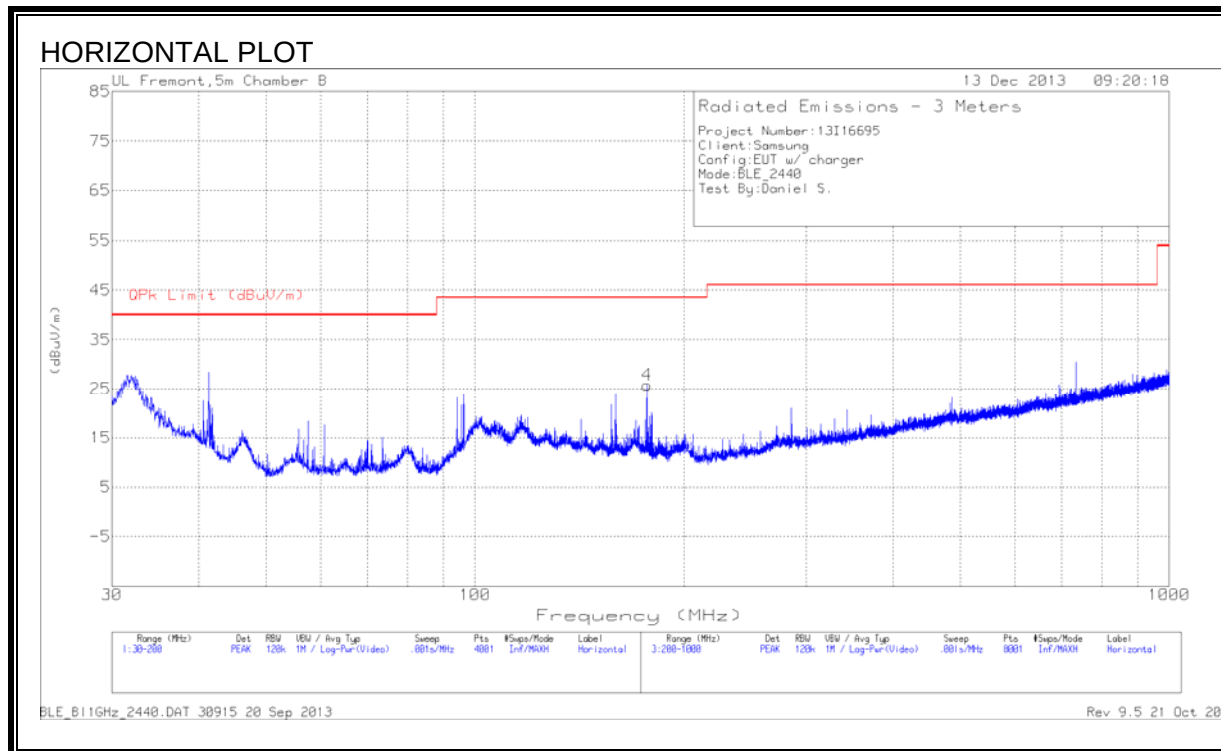
PK - Peak detector

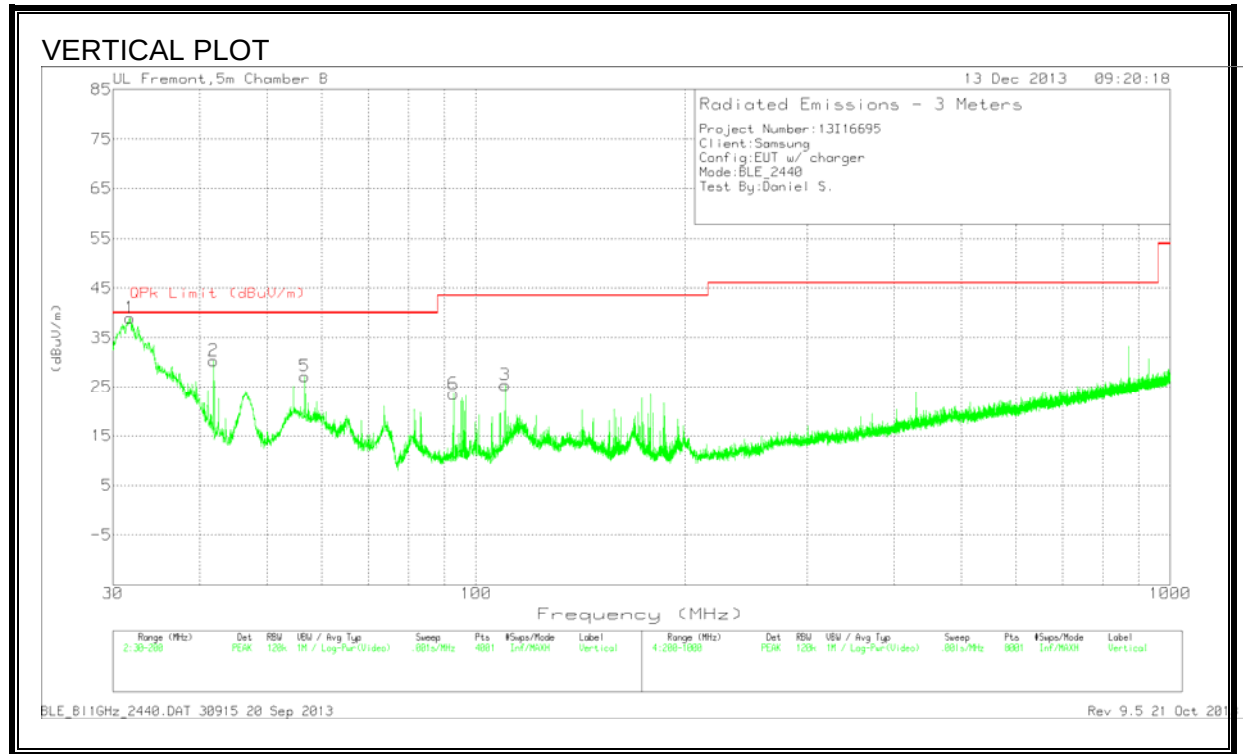
Avg - Video bandwidth < Resolution bandwidth

BLE High Channel.DAT 30915 24 Sep 2013 Rev 9.5 21 Oct 2013

9.3. WORST-CASE BELOW 1 GHz

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





Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	31.7425	47.97	PK	19.9	-28.9	38.97	40	-1.03	0-360	100	V
2	41.9	46.94	PK	12.1	-28.7	30.34	40	-9.66	0-360	100	V
5	56.69	48.79	PK	6.9	-28.5	27.19	40	-12.81	0-360	100	V
6	92.815	43.57	PK	8.1	-28.1	23.57	43.52	-19.95	0-360	100	V
3	110.155	40.82	PK	12.6	-28	25.42	43.52	-18.1	0-360	100	V
4	177.0075	41.87	PK	11.1	-27.2	25.77	43.52	-17.75	0-360	100	H

PK - Peak detector

Radiated Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
31.7425	25.39	QP	19.9	-28.8	16.49	40	-23.51	360	361	V

QP - Quasi-Peak detector

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

6 WORST EMISSIONS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
1	.15	49.44	PK	.1	0	49.54	66	-16.46	-	-
2	.15	29.69	Av	.1	0	29.79	-	-	56	-26.21
3	.366	39.52	PK	.1	0	39.62	58.6	-18.98	-	-
4	.366	31.08	Av	.1	0	31.18	-	-	48.6	-17.42
9	.6855	35.66	PK	.1	0	35.76	56	-20.24	-	-
10	.6855	21.05	Av	.1	0	21.15	-	-	46	-24.85
5	2.3055	41.97	PK	.1	.1	42.17	56	-13.83	-	-
6	2.3055	23.11	Av	.1	.1	23.31	-	-	46	-22.69
7	7.566	37.82	PK	.1	.1	38.02	60	-21.98	-	-
8	7.566	22.13	Av	.1	.1	22.33	-	-	50	-27.67

Line-L2 .15 - 30MHz

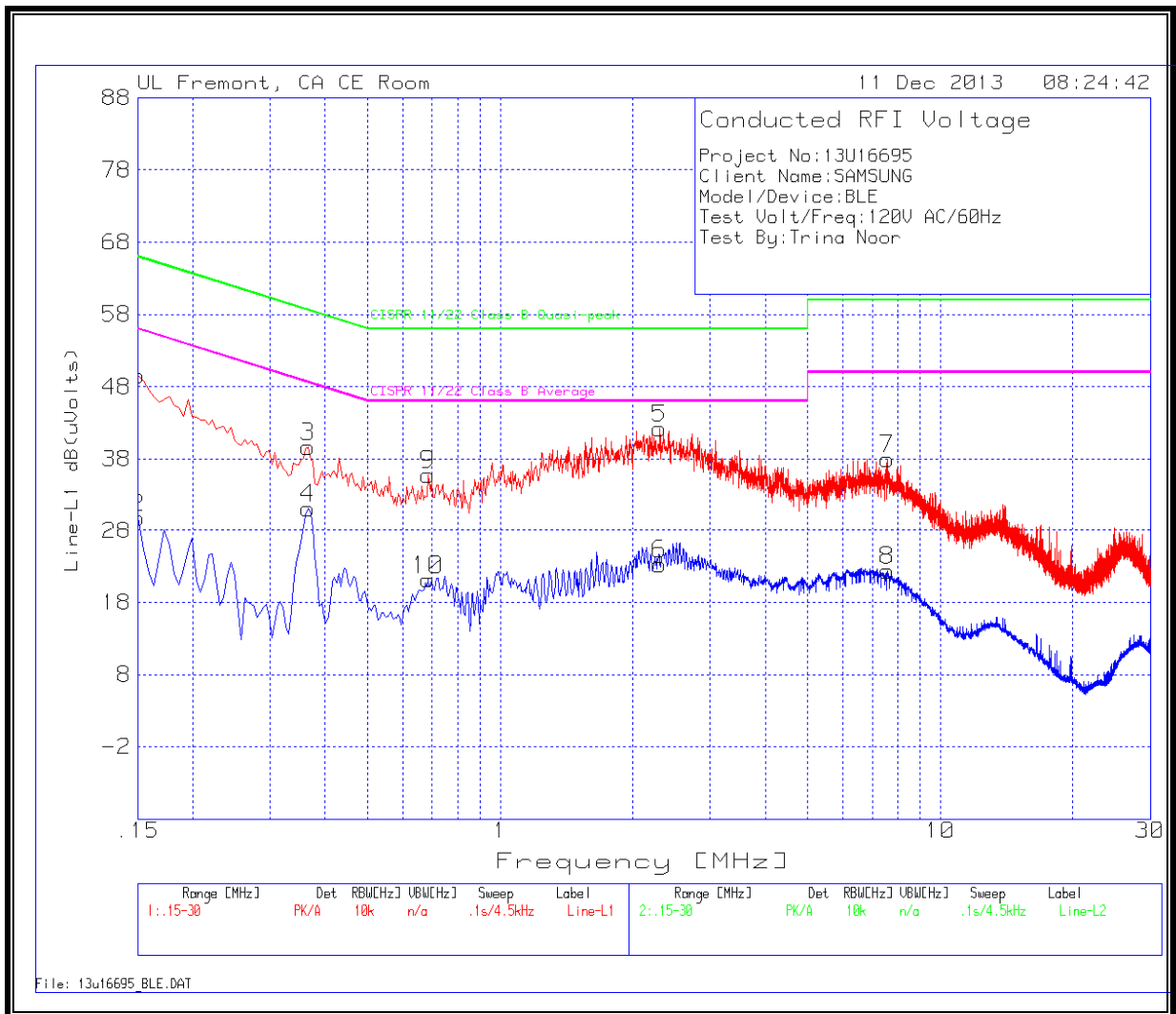
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
11	.168	46.41	PK	.1	0	46.51	65.1	-18.59	-	-
12	.168	19.34	Av	.1	0	19.44	-	-	55.1	-35.66
13	.3615	37.98	PK	.1	0	38.08	58.7	-20.62	-	-
14	.3615	12.43	Av	.1	0	12.53	-	-	48.7	-36.17
15	.9735	37.3	PK	.1	.1	37.5	56	-18.5	-	-
16	.9735	19.86	Av	.1	.1	20.06	-	-	46	-25.94
17	25.602	31.8	PK	.5	.3	32.6	60	-27.4	-	-
18	25.602	10.7	Av	.5	.3	11.5	-	-	50	-38.5

PK - Peak detector

Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS

