

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: HP Slate 8 Pro

Brand Name: hp

Model No.: 7650xx

Model Difference: xx means other numerical or alphabetic characters for different regions.

FCC ID: B94HHC13CN

Report No.: ER/2014/30014

Issue Date: Mar. 26, 2014

FCC Rule Part: §15.225

Prepared for: Hewlett-Packard Company
3000, Hanover Street, Palo Alto, CA 94304, USA

Prepared by: SGS Taiwan Ltd.
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VERIFICATION OF COMPLIANCE

Applicant: Hewlett-Packard Company
 3000, Hanover Street, Palo Alto, CA 94304, USA

Product Name: HP Slate 8 Pro

Brand Name: hp

Model No.: 7650xx

Model Difference: xx means other numerical or alphabetic characters for different regions.

FCC ID: B94HHC13CN

File Number: ER/2014/30014

Date of test: Sep. 03, 2013 ~ Mar. 16, 2014

Date of EUT Received: Sep. 03, 2013

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4:2009 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.225.

The test results of this report relate only to the tested sample identified in this report.

Test By: Marcus Tseng *Date:* Mar. 26, 2014

Marcus Tseng / Engineer

Prepared By: Violetta Tang *Date:* Mar. 26, 2014

Violetta Tang / Clerk

Approved By Jim Chang *Date:* Mar. 26, 2014

Jim Chang / Supervisor

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Version

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1 GENERAL INFORMATION

1.1 Product Description

General:

Product Name:	HP Slate 8 Pro	
Brand Name:	hp	
Model No.:	7650xx	
Model Difference:	xx means other numerical or alphabetic characters for different regions.	
Hardware Version:	PV (3.4.66-g11700e4)	
Software Version:	Android 4.4.2	
Data Cable (USB):	Model: N/A, Supplier: Various	
Power Supply:	3.7Vdc from Li-ion battery or 5.3Vdc by AC/DC adapter	
	Battery:	Model: HSTNH-C13C-S, Supplier: Samsung SDI
	Adapter:	Model: 8395-V001-1080, Supplier: FOXLINK

NFC:

Operating Frequency	13.56MHz
Transmit Power	< 123dBuV/m at 3m.
Number of Channels	1
Antenna Type	Loop Antenna
Modulation Type	ASK

This report complies with FCC regulatory radio rule with respect to RFID that operates on 13.56MHz.

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **B94HHC13CN** filing to comply with Section 15.225 of the FCC Part 15, Subpart C Rules. The composite system (digital device) is compliance with Subpart B is authorized under a DoC procedure.

1.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009. Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, Wuku Industrial Zone, Taipei County, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009. FCC Registration Number is: 990257, Canada Registration Number: 4620A-4.

The 10 m Open Area Test Sites located on the address of SGS Taiwan Ltd. Electronics & Communication Laboratory No. 29, Pau-Tou-Tsuo Valley Chia-Pau Tsuen, Linkou Hsiang, Taipei county, which is constructed and calibrated to meet the CISPR 22/EN 55022 requirements. SGS Site No. 1(3 &10 meters) and FCC Registration Number: 94644.

1.5 Special Accessories

There is no special accessory used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the general criterion in Section 7.1 of ANSI C63.4:2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz, and the measurement procedure 7.3 in ANSI 63.4:2009 & 6.2.2 is followed to carry out the test. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13 and of ANSI C63.4:2009, & Section 6.3, 6.4, 6.5.

While performing the measurement in the frequency range of 9 kHz to 30 MHz, loop antenna is being employed. It is positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1m above the ground. The position of antenna referencing to the feed point is adjusted in order to measure the polarity of horizontal, and vertical, respectively, according to section 8 of ANSI 63.4: 2009.

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2.4 Limitation

(1) Conducted Emission

According to section 15.207(a) Conducted Emission Limits is as following.

Frequency range MHz	Limits dB (uV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

(2) Radiated Emission

- a. The field strength of any emission within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- b. Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- c. Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- d. The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

Frequency (MHz)	Field strength $\mu\text{V}/\text{m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V}/\text{m}$
1.705-30	30	30	69.54
30-88	100	3	40
88-216	150	3	43.5
216-960	200	3	46
Above 960	500	3	54

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- Remark:
1. Emission level in dBuV/m= $20 \log(\text{uV/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Distance extrapolation factor = $40 \log(\text{required distance/ test distance})$ (dB);
 4. The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
Ex. $20 * \log(30) + 40 * \log(30/3) = 69.54 \text{dBuV/m}$
 5. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205 and RSS-Gen 7.2.5 Table 3.
 6. The general radiated emission limits in ξ 15.209 and RSS-Gen 7.2.5 Table 5 and Table 6 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

(3) Frequency Tolerance

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration

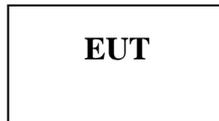


Fig. 2-2 AC Power Line Conducted Emission

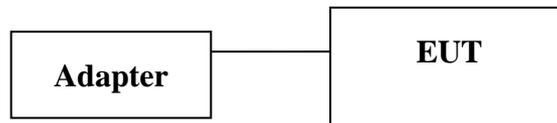


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	NFC Test Software	N/A	N/A	N/A	N/A	N/A

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3 Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207	AC Power Line Conducted Emission	Compliant
§15.225 (a)-(d)	Radiated Emission	Compliant
§15.209	Radiated Emission Limits, general requirement	Compliant
§15.225 (e)	Frequency Stability	Compliant
§2.1049 §15.215 (c)	99% & 20 dB OCCUPIED BANDWIDTH	Compliant
§15.203	Antenna Requirement	Compliant

4 Description of test modes

The EUT stay in continuous transmitting mode. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.

The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth Transmitter for channel Low, Mid and High the worst case E2 position was reported.

The data rate as the lowest supported is selected while tests are conducted.

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
Frequency Stability	+/- 123.36 Hz
99% & 20 dB OCCUPIED BANDWIDTH	+/- 123.36 Hz
Temperature	+/- 0.8 °C
Humidity	+/- 4.7 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100760	05/27/2013	05/26/2014
LISN	Rolf-Heine	NNB-2/16Z	99012	03/23/2013	03/22/2014
LISN	FCC	FCC-LISN-50/250-25-2-01	04034	03/23/2013	03/22/2014
Coaxial Cables	N/A	WK CE Cable	N/A	01/05/2013	01/04/2014

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Coaxial Cables	N/A	WK CE Cable	N/A	11/26/2013	11/25/2014

Note: The measurement was taken place with the long duration of the time, and additional equipment list as shown above indicate those equipment of which has been subject to undertake the calibration in intermediate period of time of the measurement.

6.4 Measurement Result:

Please refer to next page for the plots.

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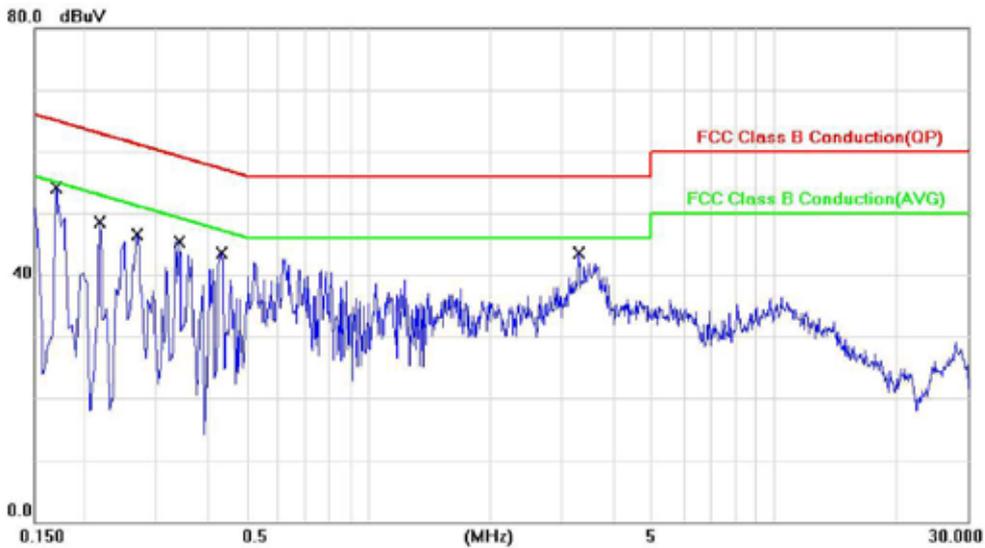
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation Mode			Test Date:	Sep. 03, 2013
Temperature:	26	Humidity:	60 %	Test By:	Marcus

Site: ConductionRoom	Phase: L1	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
EUT: HP Slate 8 Pro	Distance:	
M/N: 7650xx	Mode: Operationmode	

Conducted Emission

Data: #2 Date: 2013/9/3 Time: 下午 01:28:37



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1700	36.94	9.96	46.90	64.96	-18.06	QP	
2		0.1700	21.01	9.96	30.97	54.96	-23.99	AVG	
3	*	0.2180	38.54	9.97	48.51	62.89	-14.38	QP	
4		0.2700	36.48	10.00	46.48	61.12	-14.64	QP	
5		0.3420	29.58	10.01	39.59	59.15	-19.56	QP	
6		0.3420	15.24	10.01	25.25	49.15	-23.90	AVG	
7		0.4340	27.54	10.02	37.56	57.18	-19.62	QP	
8		0.4340	11.84	10.02	21.86	47.18	-25.32	AVG	
9		3.2940	23.81	10.11	33.92	56.00	-22.08	QP	
10		3.2940	13.35	10.11	23.46	46.00	-22.54	AVG	

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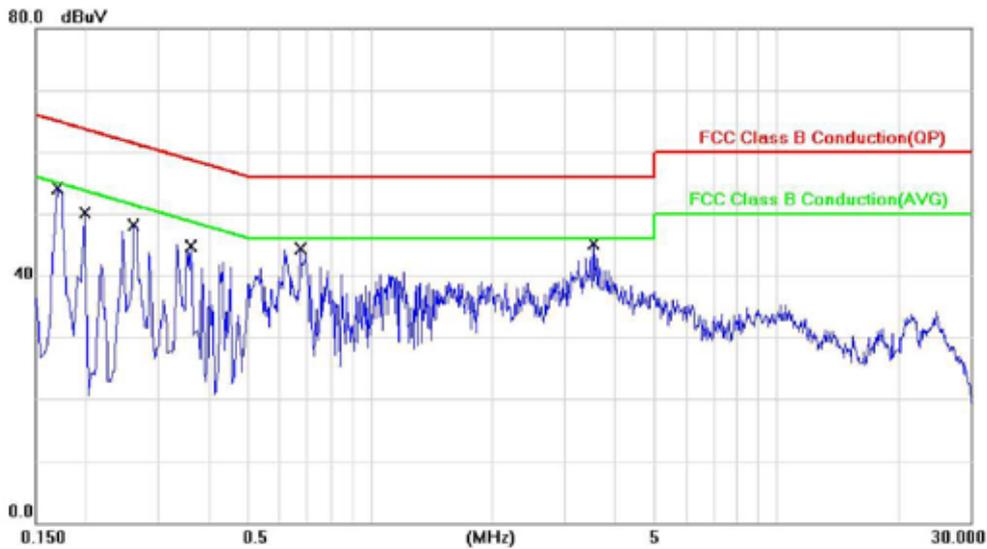
Site ConductionRoom
 Limit: FCC Class B Conduction(QP)
 EUT: HP Slate 8 Pro
 M/N: 7650xx

Phase: N
 Power: AC 120V/60Hz
 Distance:
 Mode: Operationmode

Temperature: 26 °C
 Humidity: 60%

ConductedEmission

Data:#1 Date:2013/9/3 Time: 下午 01:25:20



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1700	37.23	9.96	47.19	64.96	-17.77	QP	
2		0.1700	22.47	9.96	32.43	54.96	-22.53	AVG	
3		0.1980	30.32	9.96	40.28	63.69	-23.41	QP	
4		0.1980	10.92	9.96	20.88	53.69	-32.81	AVG	
5		0.2620	32.68	9.99	42.67	61.37	-18.70	QP	
6		0.2620	21.62	9.99	31.61	51.37	-19.76	AVG	
7		0.3620	28.24	10.02	38.26	58.68	-20.42	QP	
8		0.3620	12.86	10.02	22.88	48.68	-25.80	AVG	
9		0.6740	28.02	10.02	38.04	56.00	-17.96	QP	
10	*	0.6740	18.67	10.02	28.69	46.00	-17.31	AVG	
11		3.5620	25.28	10.13	35.41	56.00	-20.59	QP	
12		3.5620	16.47	10.13	26.60	46.00	-19.40	AVG	

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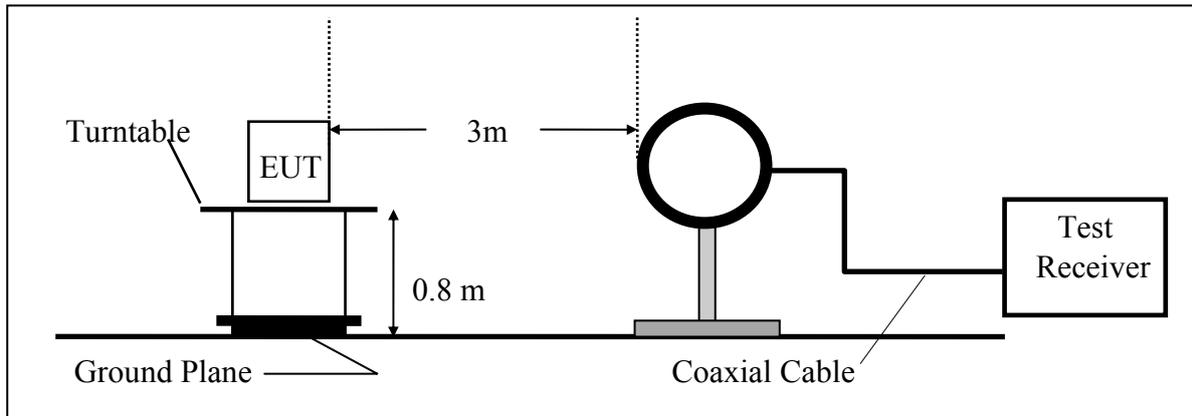
7 Radiated Emission Test

7.1 Measurement Procedure

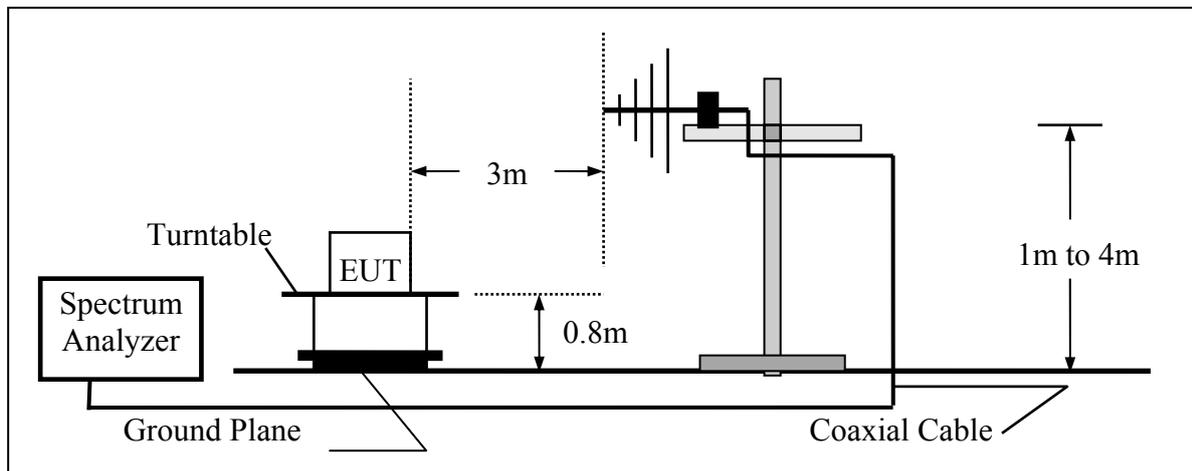
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

7.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



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7.3 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100760	05/27/2013	05/26/2014
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	01/20/2014	01/19/2015
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/02/2015
Loop Antenna	ETS.LINDGREN	6502	00148045	07/05/2013	07/04/2014
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2014	01/02/2015
Turn Table	HD	DT420	N/A	N.C.R	N.C.R
Antenna Tower	HD	MA240-N	240/657	N.C.R	N.C.R
Controller	HD	HD100	N/A	N.C.R	N.C.R
Low Loss Cable	Huber Suhner	966_Rx	9	01/03/2014	01/02/2015
3m Site NSA	SGS	966 chamber	N/A	07/15/2013	07/14/2014

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7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

7.5 Field Strength of Fundamental Emission

7.5.1 Limit

Field strength of fundamental emissions limit:

The field strength of fundamental emissions shall not exceed 15848 microrvolts/meter at 30 meters. The Limit is converted to 123.90dBuV/m by offsetting the distance extrapolation factor as measurement distance is taken place at 3 meters.

$$\text{Distance extrapolation} = 40 * \log(30/3) = 40 \text{ dB}$$

$$\text{Limit is re-adjusted in terms of limit taken in 3m} = 20 * \log(15848 \text{ uV/m}) + 40 = 124.00\text{dBuV/m}$$

Note:

$$\text{Actual FS(dB}\mu\text{V/m)} = \text{Spectrum. Reading level(dB}\mu\text{V)} + \text{Factor(dB)}$$

$$\text{Factor(dB)} = \text{Antenna Factor(dB}\mu\text{V/m)} + \text{Cable Loss(dB)} - \text{Pre_Amplifier Gain(dB)}$$

Note : “F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we’ve employed is peak detector.

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Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:MAIN	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.56	F	Peak	37.27	11.72	48.99	123.90	-74.91

Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:MAIN	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Safe Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
13.56	F	Peak	40.03	11.72	51.75	123.90	-72.15

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7.5.2 Radiated Mask

- (a) 15.848 millivolts/m (84 dB μ V/m) at 30 m, within the band 13.553-13.567 MHz.
- (b) 334 microvolts/m (50.5 dB μ V/m) at 30 m, within the bands 13.410-13.553 MHz and 13.567-13.710 MHz.
- (c) 106 microvolts/m (40.5 dB μ V/m) at 30 m, within the bands 13.110-13.410 MHz and 13.710-14.010 MHz.

Distance extrapolation = $40 * \log(30/3) = 40$ dB

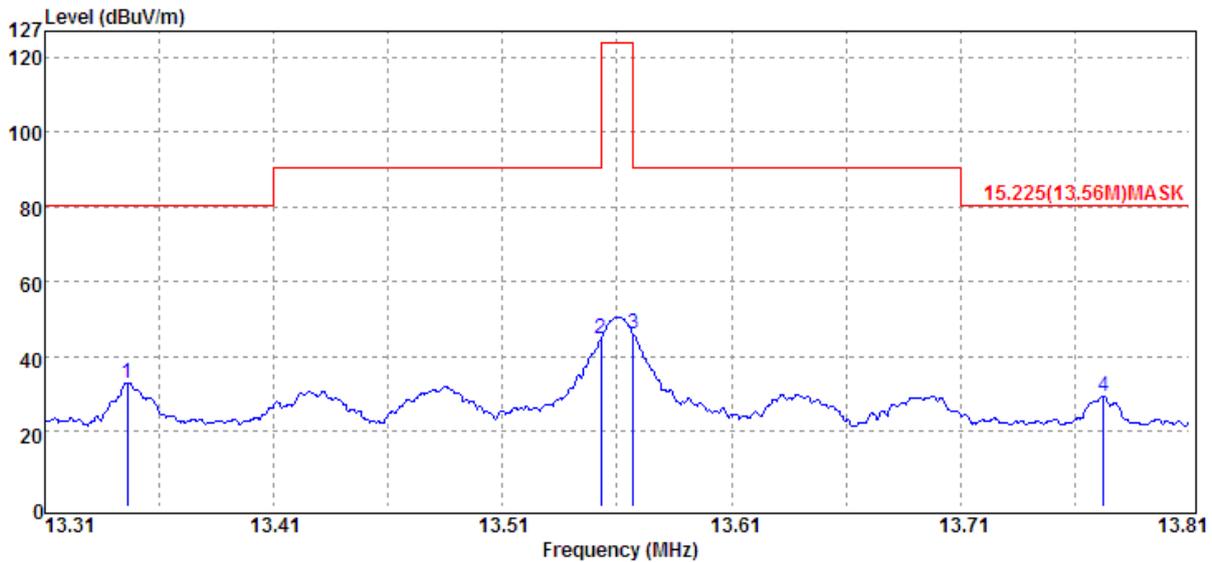
Limit is re-adjusted in terms of limit taken in 3m for the following frequency segment of the interest:

- a) $20 * \log(15848\mu\text{V/m}) + 40\text{dB} = 124.00\text{dBuV/m}$
- b) $20 * \log(334\mu\text{V/m}) + 40\text{dB} = 90.47\text{dBuV/m}$
- c) $20 * \log(106\mu\text{V/m}) + 40\text{dB} = 80.50\text{dBuV/m}$

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Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:MASK	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

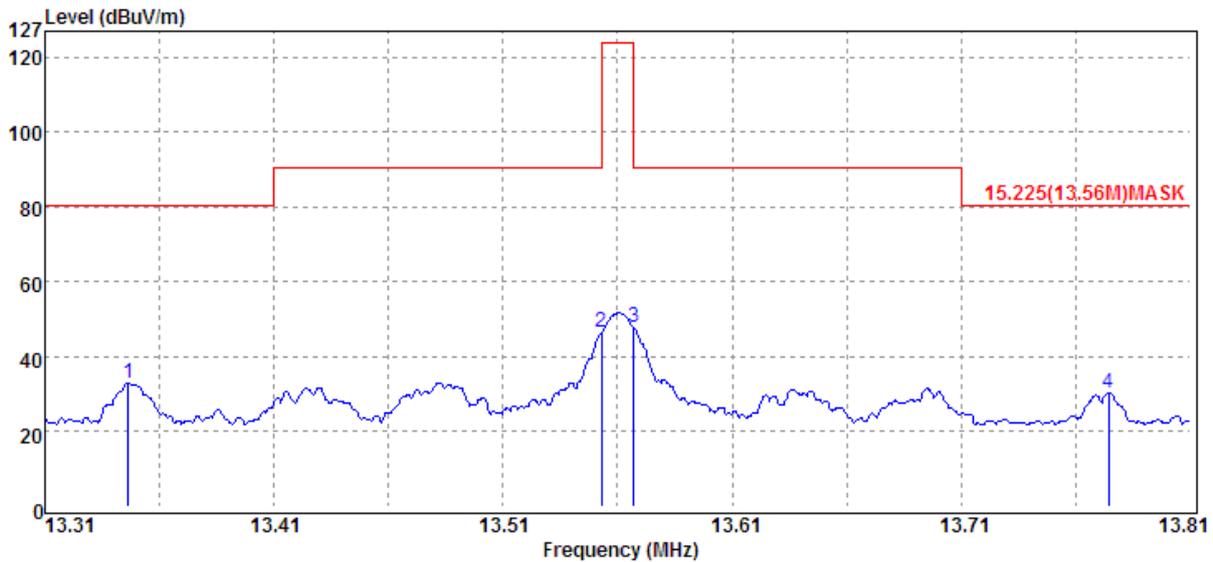


Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
13.35	S	Peak	21.41	11.74	33.15	80.50	-47.35
13.55	S	Peak	33.25	11.72	44.97	90.47	-45.50
13.57	S	Peak	34.64	11.72	46.36	90.47	-44.11
13.77	S	Peak	17.68	11.70	29.38	80.50	-51.12

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Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:MASK	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Safe Margin dB
13.35	S	Peak	21.22	11.74	32.96	80.50	-47.54
13.55	S	Peak	34.92	11.72	46.64	90.47	-43.83
13.57	S	Peak	36.02	11.72	47.74	90.47	-42.73
13.78	S	Peak	18.82	11.70	30.52	80.50	-49.98

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7.5.3 Radiated Emission –

Limit:

§ 15.225

(d) 30 microvolts/m (29.4 dBµV/m) at 30 m, outside the band 13.110-14.010 MHz.

Limit is converted by adding the distance extrapolation factor as the measurement distance was taken place at 3m.

§ RSS-210 A2.6

(d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

a) $20 \cdot \log(30 \mu\text{V/m}) + 40\text{dB} = 69.40 \text{ dBuV/m}$

Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:TX	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
10.44	S	Peak	12.90	11.97	24.87	69.54	-44.67
12.42	S	Peak	12.37	11.80	24.17	69.54	-45.37
14.68	S	Peak	11.27	11.64	22.91	69.54	-46.63
16.68	S	Peak	11.65	11.51	23.16	69.54	-46.38
20.40	S	Peak	11.46	11.22	22.68	69.54	-46.86
23.26	S	Peak	11.11	10.45	21.56	69.54	-47.98
27.12	H	Peak	11.55	9.53	21.08	69.54	-48.46

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Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:TX	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
10.46	S	Peak	12.44	11.97	24.41	69.54	-45.13
12.50	S	Peak	12.07	11.79	23.86	69.54	-45.68
16.12	S	Peak	13.54	11.55	25.09	69.54	-44.45
19.02	S	Peak	11.38	11.39	22.77	69.54	-46.77
22.80	S	Peak	12.05	10.56	22.61	69.54	-46.93
24.30	S	Peak	11.75	10.19	21.94	69.54	-47.60
27.12	H	Peak	19.05	9.53	28.58	69.54	-40.96

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Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:TX	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:VERTICAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
40.68	H	---					
54.24	H	---					
67.80	H	---					
81.36	H	---					
94.92	H	---					
108.48	H	---					
122.04	H	---					
135.60	H	---					
31.94	S	Peak	40.21	-13.96	26.25	40.00	-13.75
60.07	S	Peak	40.61	-13.58	27.03	40.00	-12.97
120.21	S	Peak	40.60	-15.09	25.51	43.50	-17.99
159.98	S	Peak	38.97	-12.63	26.34	43.50	-17.16
221.09	S	Peak	45.14	-14.51	30.63	46.00	-15.37
497.54	S	Peak	31.19	-7.56	23.63	46.00	-22.37

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Operation Band	:NFC	Test Date	:2014-03-12
Fundamental Frequency	:13.56 MHz	Temp./Humi.	:20.2 deg_C/58RH
Operation Mode	:TX	Engineer	:Tin
EUT Pol.	:E2 Plane	Measurement Antenna Pol.	:HORIZONTAL

Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
40.68	H	---					
54.24	H	---					
67.80	H	---					
81.36	H	---					
94.92	H	---					
108.48	H	---					
122.04	H	---					
135.60	H	---					
60.07	S	Peak	41.41	-13.58	27.83	40.00	-12.17
120.21	S	Peak	36.15	-15.09	21.06	43.50	-22.44
161.92	S	Peak	41.28	-12.69	28.59	43.50	-14.91
265.71	S	Peak	39.08	-12.21	26.87	46.00	-19.13
355.92	S	Peak	35.76	-10.11	25.65	46.00	-20.35
779.81	S	Peak	31.45	-2.80	28.65	46.00	-17.35

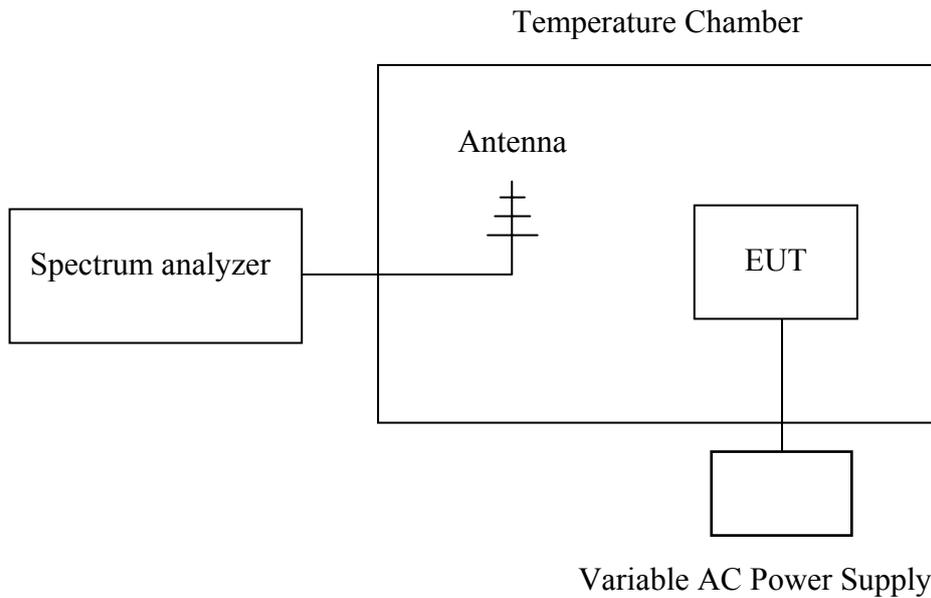
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8 Frequency Tolerance

8.1 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation
3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
4. Set SPA Max hold. Mark peak.

8.2 Test SET-UP (Block Diagram of Configuration)



8.3 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Temperature Chamber	TERCHY	MHG-120LF	911009	05/06/2013	05/05/2014
AC Power Supply	APW-105N	887592	All Power	N/A	N/A

8.4 Measurement Results

Refer to attached data chart.

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A. Temperature Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
3.7	-20	13.560951	-396.00	+/- 1.356
3.7	-10	13.560887	-332.00	+/- 1.356
3.7	0	13.560714	-159.00	+/- 1.356
3.7	10	13.560638	-83.00	+/- 1.356
3.7	20	13.560555	0.00	+/- 1.356
3.7	30	13.560332	223.00	+/- 1.356
3.7	40	13.560401	154.00	+/- 1.356
3.7	50	13.560475	80.00	+/- 1.356

B. Supply Voltage Variation

Power Supply	Environment	Frequency	Delta (Hz)	Limit (KHz)
Vdc	Temperature ()	(MHz)		
4.2	20	13.560575	-20.00	+/- 1.356
3.7	20	13.560555	0.00	+/- 1.356
3.2	20	13.560549	6.00	+/- 1.356

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9 99% & 20 dB OCCUPIED BANDWIDTH MEASUREMENT

9.1 Standard Applicable:

§2.1049 & §15.215 (c)

9.2 Limit:

None

9.3 Test Set-up

Refer to section 6.2 in this report

9.4 Measurement Procedure

99% bandwidth

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW (10KHz) was set to about 1% of span, VBW= 3 times RBW(10KHz), -26dBc display line was placed on the screen (or 99%), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

20dB bandwidth

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak mode.
2. 20dB Bandwidth the resolution bandwidth of 1 kHz and the video bandwidth of 1 kHz were used.
3. Measured the spectrum width with power higher than 20dB below carrier.

9.5 Measurement Equipment Used:

Refer to section 6.3 in this report

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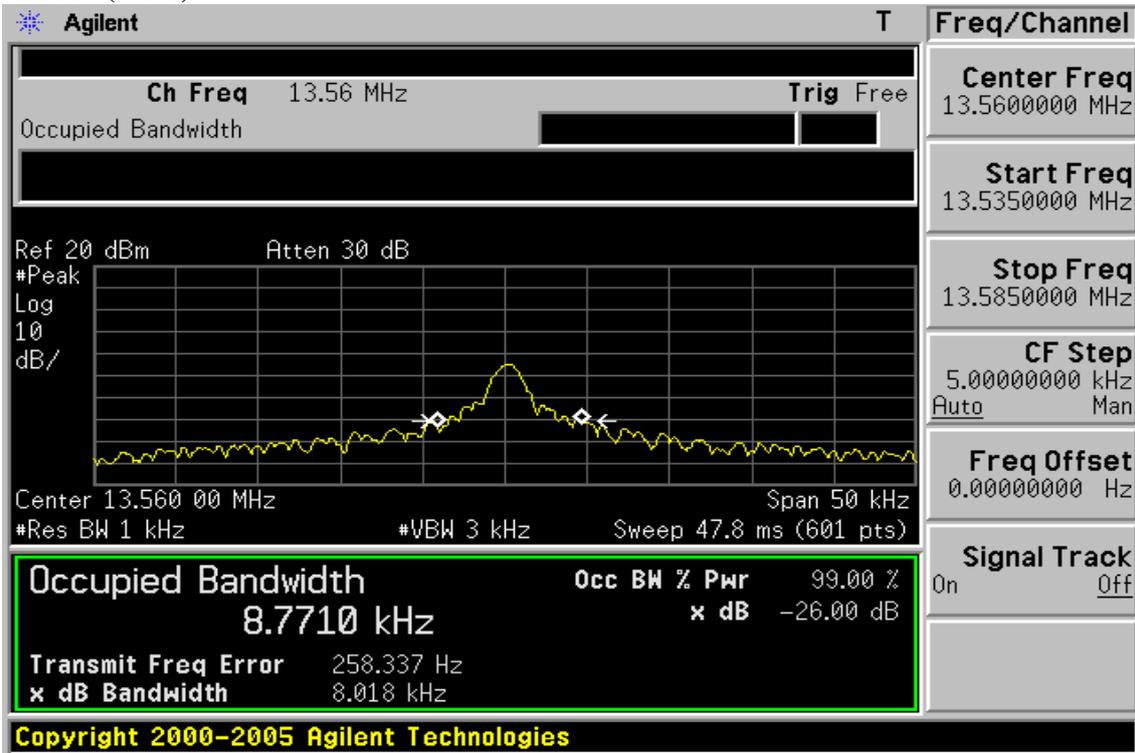
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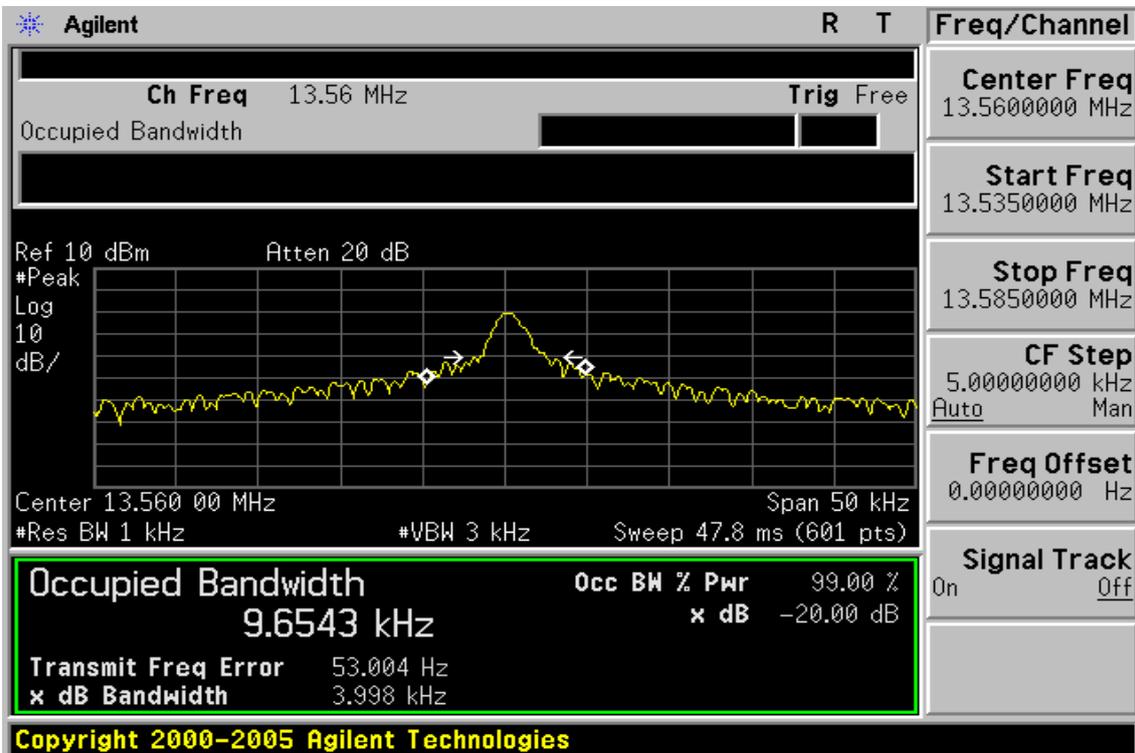
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99% Bandwidth (FCC)



-20dB Bandwidth



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10 ANTENNA REQUIREMENT

10.1. Standard Applicable:

According to §15.203, Antenna requirement.

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

10.2. Antenna Connected Construction:

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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