

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: PDA Phone

Brand Name: Sony

Type No.: PM-0731-BV

Model Difference: N/A

FCC ID: PY7PM-0731

Report No.: EH/2014/20010

Issue Date: Feb. 27, 2014

FCC Rule Part: §15.249

Prepared for: Sony Mobile Communications AB
Nya Vattentornet 22188 Lund/Sweden
SGS Taiwan Ltd.
Electronics & Communication Laboratory

Prepared by: No.134, Wu Kung Road, New Taipei Industrial
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24803



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VERIFICATION OF COMPLIANCE

Applicant: Sony Mobile Communications AB
Nya Vattentorget 22188 Lund/Sweden

Product Description: PDA Phone

Brand Name: Sony

Type No.: PM-0731-BV

Model Difference: N/A

FCC ID: PY7PM-0731

File Number: EH/2014/20010

Date of test: Jan. 27, 2014 ~ Feb. 16, 2014

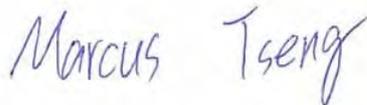
Date of EUT Received: Jan. 27, 2014

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd., Electronics & Communication Laboratory.

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 & ANSI C63.10:2009 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 15.249.

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

Test By:		Date:	Feb. 27, 2014
<hr/>			
	<i>Marcus Tseng / Engineer</i>		
Prepared By:		Date:	Feb. 27, 2014
<hr/>			
	<i>Julia Chang / Clerk</i>		
Approved By:		Date:	Feb. 27, 2014
<hr/>			
	<i>Jim Chang / Supervisor</i>		

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Revision History

Report Number	Revision	Description	Issue Date
EH/2014/20010	Rev.00	Initial creation of document	Feb. 27, 2014

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MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION 46

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1. GENERAL INFORMATION

1.1. Product Description

General:

Product Name:	PDA Phone	
Brand Name:	Sony	
Type No.:	PM-0731-BV	
Model Difference:	N/A	
Data Cable (USB):	1.Model No.: EC450, Supplier: K-one Type No.: AI-0700, Length: 100 cm	
	2.Model No.: EC801, Supplier: Sony Type No.: AI-0401, Length: 100 cm	
Simple Hands-Free (SHF-White):	Model No.: MH410c, Supplier: Foster Electric Type No.: AG-1100	
Simple Hands-Free (SHF-Black):	Model No.: MH410c, Supplier: Foster Electric Type No.: CCA-0004017	
Car Charger:	Model No.: AN400, Supplier: Salcomp Type No.: CAA-0003013	
Hi-Fi Wireless Headset:	Model No.: MW600, Supplier: BALDA Type No.: DDA-0002029.B coupling with Simple Hands Free (Model No.: MH755, Supplier: BALDA Type No.: AG-0502)	
Hardware Version:	A	
Software Version:	18.1.A.0.9	
Power Supply:	3.8Vdc	
	Battery:	Model No.: LIS1546ERPC, Supplier: Sony Type No.: N/A
	Adapter:	1.Model No.: EP800, Supplier: Salcomp Type No.: CAA-0002016-US
2.Model No.: EP880, Supplier: Salcomp Type No.: AC-0400-US		

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Bluetooth_BR+EDR:

Bluetooth Version:	V3.0+HS
Channel number:	79 channels
Modulation type:	Frequency Hopping Spread Spectrum
Transmit Power:	10.04dBm
Frequency Range:	2.402GHz – 2.480GHz
Dwell Time:	<= 0.4s
Antenna Designation:	PIFA Antenna, Gain: -1.34dBi

Bluetooth Low Energy:

Frequency Range:	2402 – 2480MHz
Bluetooth Version:	V4.0 Dual mode
Channel number:	40 channels
Modulation type:	GFSK
Transmit Power:	1.85dBm (Peak)
Antenna Designation:	PIFA Antenna, Gain: -1.34dBi

NFC:

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

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Antenna Plus:

Operation Frequency:	2402 – 2480MHz
Transmit Power	101.78dBuV/m at 3m.
Channel number:	79
Modulation Type:	GFSK
Antenna Designation:	PIFA Antenna, Gain: -1.34dBi

WLAN 2.4GHz+5.7GHz:

Wi-Fi	Frequency Range	Channels	Rated Power	Modulation Technology
11b/g	2412-2462	11	b: 20.35dBm g: 21.91dBm	DSSS, OFDM
11n	HT20 2412-2462	11	HT20: 20.55dBm	OFDM
11a	5725-5850	5	a: 21.15dBm	OFDM
11n (5GHz)	HT20 5725-5850	5	HT20: 20.22dBm	
11n (5GHz)	HT40 5725-5850	2	HT40: 19.50dBm	
Antenna Designation:	PIFA Antenna, 2.4GHz Gain: -1.34dBi 5GHz Gain: 4.51dBi (5725MHz-5850MHz)			
Modulation type:	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 b: 1/2/5.5/11 Mbps 802.11 g: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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WLAN 5GHz:

Wi-Fi	Frequency Range	Channels	Rated Power (Avg)	Modulation Technology
11a	5150~5250	4	13.96dBm	OFDM
	5250~5350	4	13.97dBm	
	5470~5725	8	13.99dBm	
11n	HT20 5150~5250	4	HT20: 11.49dBm	OFDM
	HT20 5250~5350	4	HT20: 11.49dBm	
	HT20 5470~5725	8	HT20: 11.83dBm	
11n	HT40 5150~5250	2	HT40: 11.41dBm	OFDM
	HT40 5250~5350	2	HT40: 10.45dBm	
	HT40 5470~5725	3	HT40: 10.48dBm	
Antenna Designation	PIFA Antenna, 5GHz Gain: -0.38dBi (5150MHz-5250MHz) 5GHz Gain: 0.10dBi (5250MHz-5350MHz) 5GHz Gain: 3.98dBi (5470MHz-5725MHz)			
Modulation type	64QAM, 16QAM, QPSK, BPSK for OFDM			
Transition Rate:	802.11 a: 6/9/12/18/24/36/48/54 Mbps 802.11 n_20MHz: 6.5 – 65.0Mbps 802.11 n_40MHz: 13.5 – 135.0Mbps			

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GSM / WCDMA/ LTE:

Cellular Phone Standards Frequency Range and Power	Operating Frequency		Rated Power
	GSM/GPRS 850, Class 33	824.2 MHz– 848.8 MHz	33dBm
	EDGE 850, Class 33	824.2 MHz– 848.8 MHz	27dBm
	GSM/GPRS 1900, Class 33	1850.2MHz – 1909.8MHz	30dBm
	EDGE 1900, Class 33	1850.2MHz – 1909.8MHz	26dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band II	1852.4MHz – 1907.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band IV	1712.4MHz - 1752.6MHz	24dBm
	WCDMA/HSUPA/HSDPA /HSPA+ Band V	826.4MHz - 846.6MHz	24dBm
	1.4MHz BW LTE-Band 4	1710.7MHz– 1754.3MHz	23dBm
	3MHz BW LTE-Band 4	1711.5MHz – 1753.5MHz	23dBm
	5MHz BW LTE-Band 4	1712.5MHz – 1752.5MHz	23dBm
	10MHz BW LTE-Band 4	1715MHz – 1750MHz	23dBm
	15MHz BW LTE-Band 4	1717.5MHz – 1747.5MHz	23dBm
	20MHz BW LTE-Band 4	1720MHz – 1745MHz	23dBm
	5MHz BW LTE-Band 7	2502.5MHz – 2567.5MHz	23dBm
	10MHz BW LTE-Band 7	2505.0MHz – 2565.0MHz	23dBm
	15MHz BW LTE-Band 7	2507.5MHz – 2562.5MHz	23dBm
	20MHz BW LTE-Band 7	2510.0MHz – 2560MHz	23dBm
	5MHz BW LTE-Band 17	706.5MHz – 713.5MHz	23dBm
	10MHz BW LTE-Band 17	709.0MHz –711.0MHz	23dBm

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<p>Type of Emission:</p>	<p>GSM 850: 250KGXW, GSM 1900: 249KGXW GPRS 850: 256KGXW, GPRS 1900: 248KGXW EDGE 850: 253KG7W, EDGE 1900: 248KG7W WCDMA Band II: 4M22F9W, WCDMA Band IV: 4M28F9W, WCDMA Band V: 4M20F9W HSDPA Band II: 4M17F9W, HSDPA Band IV: 4M23F9W, HSDPA Band V: 4M12F9W HSUPA Band II: 4M23F9W, HSUPA Band IV: 4M24F9W, HSUPA Band V: 4M25F9W 1.4MHz BW LTE-Band 4 QPSK: 1M10D7W 1.4MHz BW LTE-Band 4 16QAM: 1M10D7W 3MHz BW LTE-Band 4 QPSK: 2M71D7W 3MHz BW LTE-Band 4 16QAM: 2M71D7W 5MHz BW LTE-Band 4 QPSK: 4M50D7W 5MHz BW LTE-Band 4 16QAM: 4M50D7W 10MHz BW LTE-Band 4 QPSK: 8M98D7W 10MHz BW LTE-Band 4 16QAM: 8M98D7W 15MHz BW LTE-Band 4 QPSK: 13M45D7W 15MHz BW LTE-Band 4 16QAM: 13M48D7W 20MHz BW LTE-Band 4 QPSK: 17M91D7W 20MHz BW LTE-Band 4 16QAM: 7M94D7W 5MHz BW LTE-Band 7 QPSK: 4M51D7W 5MHz BW LTE-Band 7 16QAM: 4M51D7W 10MHz BW LTE-Band 7 QPSK: 9M01D7W 10MHz BW LTE-Band 7 16QAM: 8M99D7W 15MHz BW LTE-Band 7 QPSK: 13M46D7W 15MHz BW LTE-Band 7 16QAM: 13M46D7W 20MHz BW LTE-Band 7 QPSK: 17M92D7W 20MHz BW LTE-Band 7 16QAM: 17M93D7W 5MHz BW LTE-Band 17 QPSK: 4M151D7W 5MHz BW LTE-Band 17 16QAM: 4M51D7W 10MHz BW LTE-Band 17 QPSK: 8M97D7W 10MHz BW LTE-Band 17 16QAM: 8M94D7W</p>
<p>IMEI:</p>	<p>004402452036837(2G&3G); 004402452038445(4G)</p>

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1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: PY7PM-0731** filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4:2009 & ANSI C63.10:2009. 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 Rd., Wuku Industrial Zone, Taipei Country, Taiwan which are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2009 & ANSI C63.10:2009. FCC Registration Number are: 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 are no special accessories 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 requirements in Section 7.3.1 of ANSI C63.4-2009 & 6.2 ANSI 63.10:2009. 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, and 6.2.3 in ANSI 63.10:2009 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 according to the requirements in Section 8 and 13 of ANSI C63.4-2009 & Section 6.3, 6.4, 6.5, and 6.6 of ANSI 63.10:2009.

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2.4. Limitation

(1) Conducted Emission

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

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 – 0.5	66 - 56	56 - 46
0.5 – 5	56	46
5 - 30	60	50

(2) Radiated Emission 15.249(a)

The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following.

Frequency (MHz)	Field strength of Fundamental	Field strength of Harmonics	Distance (m)
902 - 928	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
2400 – 2483.5	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3
5725 – 5875	50 mV/m (94dBuV/m)	500 uV/m (54dBuV/m)	3

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(3) Radiated Emission 15.249 (d)

Emission Radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in Section 15.209 and as below, whichever is the lesser attenuation.

Frequency (MHz)	Field strength $\mu\text{V/m}$	Distance (m)	Field strength at 3m $\text{dB}\mu\text{V/m}$
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

(4) Radiated Emission 15.249(e)

For frequencies above 1000MHz, the above field strength limits are based on average limits. The peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20dB under any condition of modulation.

- Remark:
1. Emission level in $\text{dB}\mu\text{V/m} = 20 \log(\mu\text{V/m})$
 2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
 3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205
 4. Emission spurious frequency which appearing within the Restricted Bands specified in provision of ξ 15.205, then the general radiated emission limits in ξ 15.209 apply.

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2.5. Configuration of Tested System

Fig. 2-1 Radiated Emission

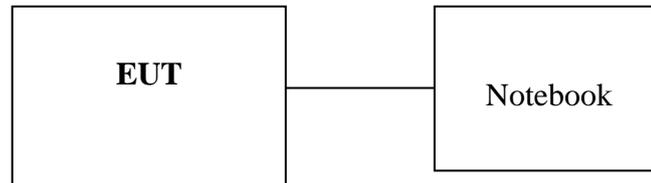


Fig. 2-2 Conducted (Antenna Port) Configuration

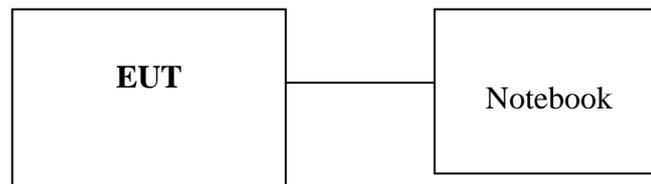


Fig. 2-3 AC Power Line Conducted Emission

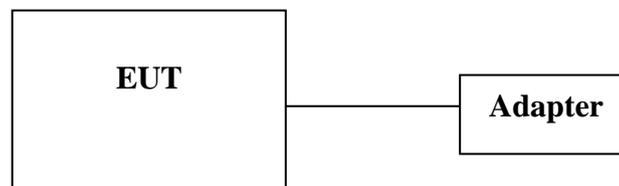


Table 2-1 Equipment Used in Tested System

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

Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§ 15.207(a)	AC Power Line Conducted Emission	Compliant
§ 15.249(a)(e)	Radiated Emission	Compliant
§ 15.249(e)	20dB band width Measurement	Compliant

4. DESCRIPTION OF TEST MODES

The EUT has been tested under operating condition.
The EUT is staying in continuous transmitting mode.

Channel Low: 2402MHz

Channel Mid: 2441MHz

Channel High: 2480MHz

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

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.586 dB
20dB 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
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

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. CONDUCTED EMISSIONS TEST

6.1 Standard Applicable:

According to §15.207, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

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

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

6.2 Measurement Equipment Used:

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	100759	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	11/26/2013	11/25/2014

6.3 EUT Setup:

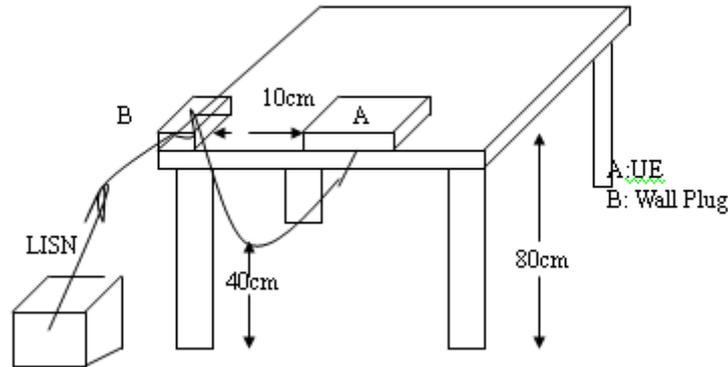
- The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI C63.10:2009.
- The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- The LISN was connected with 120Vac/60Hz power source.

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6.4. Test SET-UP (Block Diagram of Configuration)



6.5. Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6. Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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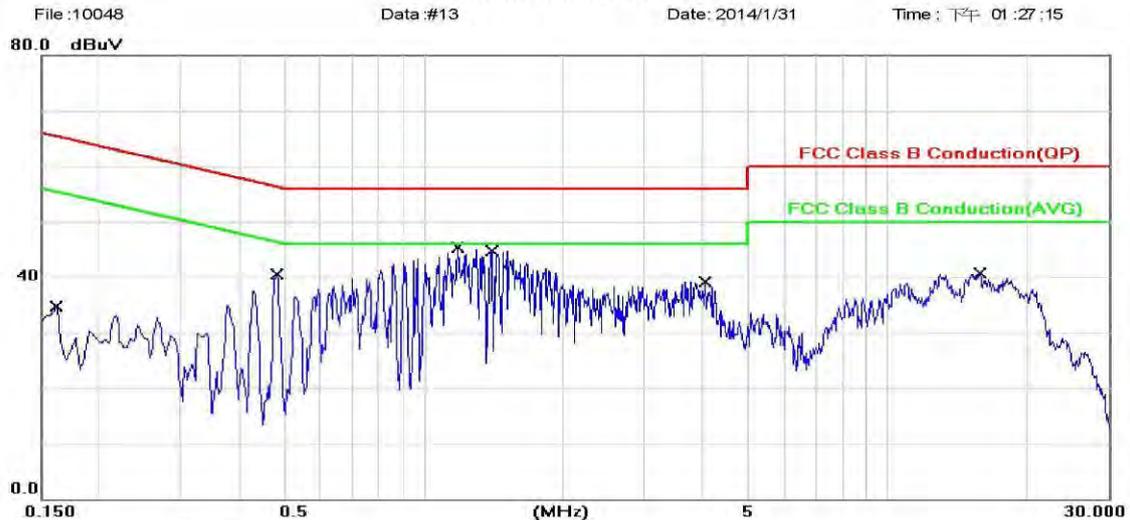
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Operation mode	Test Date:	Jan. 31, 2014
Temperature:	26 °C	Humidity:	60 %
Model No.:	EP800	Test By:	Marcus

Site ConductionRoom	Phase: L1	Temperature: 26 °C
Limit: FCC Class B Conduction(QP)	Power: AC 120V/60Hz	Humidity: 60%
Mode: Operation Mode		
Note:		

Conducted Emission



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1620	30.50	0.16	30.66	65.36	-34.70	QP	
2		0.1620	17.80	0.16	17.96	55.36	-37.40	AVG	
3		0.4860	39.00	0.16	39.16	56.24	-17.08	QP	
4		0.4860	28.70	0.16	28.86	46.24	-17.38	AVG	
5 *		1.1900	39.60	0.17	39.77	56.00	-16.23	QP	
6		1.1900	28.10	0.17	28.27	46.00	-17.73	AVG	
7		1.4060	38.00	0.18	38.18	56.00	-17.82	QP	
8		1.4060	24.50	0.18	24.68	46.00	-21.32	AVG	
9		4.0500	32.60	0.24	32.84	56.00	-23.16	QP	
10		4.0500	21.00	0.24	21.24	46.00	-24.76	AVG	
11		15.8340	36.50	0.39	36.89	60.00	-23.11	QP	
12		15.8340	25.10	0.39	25.49	50.00	-24.51	AVG	

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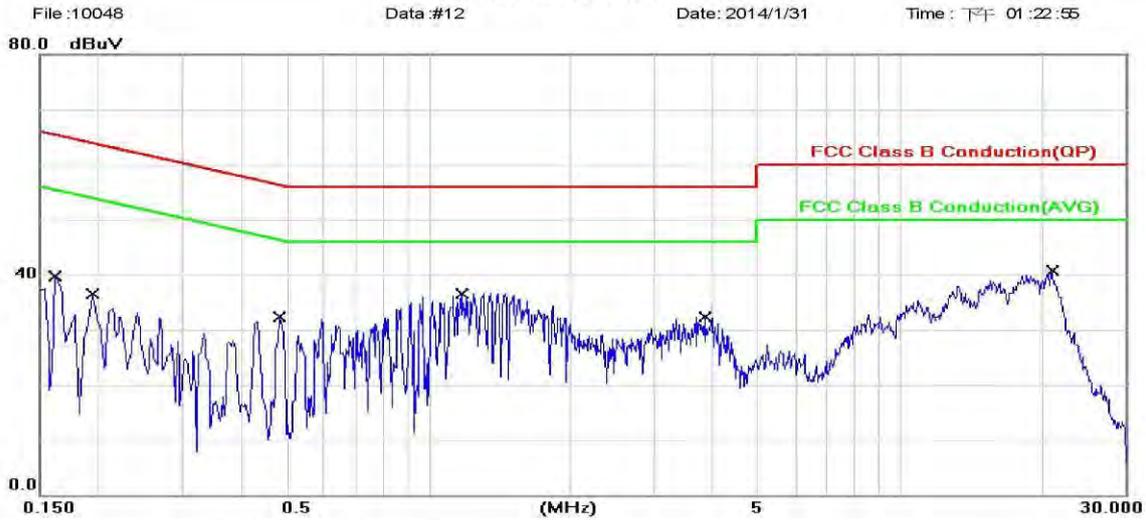
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Site ConductionRoom
 Limit: FCC Class B Conduction(QP)
 Mode: Operation Mode
 Note:

Phase: N
 Power: AC 120V/60Hz

Temperature: 26 °C
 Humidity: 60%

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.1620	36.30	0.18	36.48	65.36	-28.88	QP	
2		0.1620	18.10	0.18	18.28	55.36	-37.08	AVG	
3		0.1940	31.60	0.19	31.79	63.86	-32.07	QP	
4		0.1940	16.00	0.19	16.19	53.86	-37.67	AVG	
5		0.4820	31.10	0.19	31.29	56.30	-25.01	QP	
6	*	0.4820	24.70	0.19	24.89	46.30	-21.41	AVG	
7		1.1780	30.70	0.21	30.91	56.00	-25.09	QP	
8		1.1780	18.40	0.21	18.61	46.00	-27.39	AVG	
9		3.8540	26.00	0.29	26.29	56.00	-29.71	QP	
10		3.8540	6.50	0.29	6.79	46.00	-39.21	AVG	
11		20.9340	33.50	0.53	34.03	60.00	-25.97	QP	
12		20.9340	15.80	0.53	16.33	50.00	-33.67	AVG	

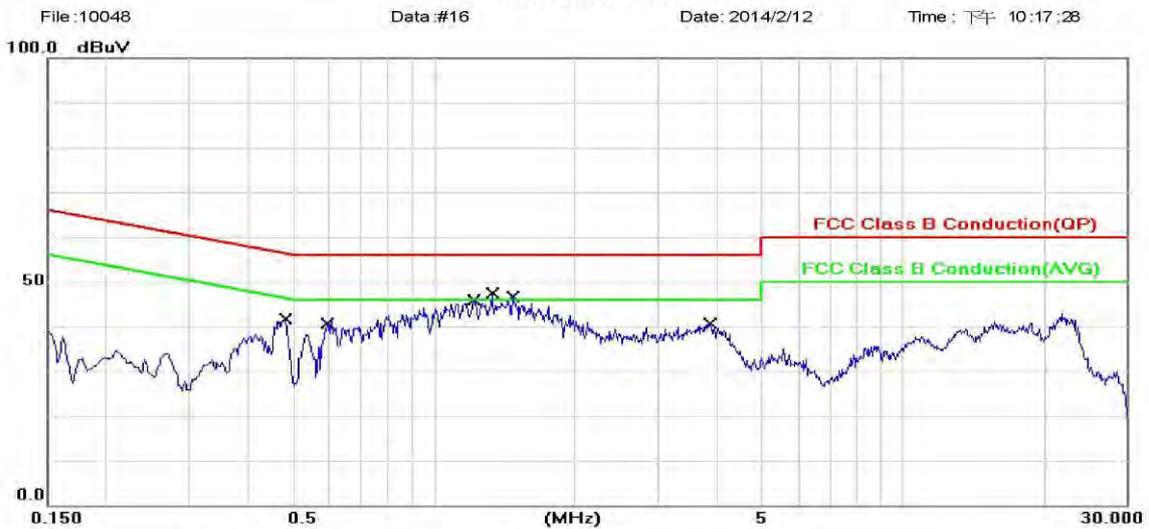
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Operation Mode:	Operation mode			Test Date:	Feb. 12, 2014
Temperature:	26 °C	Humidity:	60 %	Test By:	Marcus
Model No.:	EP880				

Site ConductionRoom Phase: **L1** Temperature: 26 °C
 Limit: FCC Class B Conduction(QP) Power: AC 120V/60Hz Humidity: 60%
 Mode: Operation Mode
 Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.4780	39.00	0.16	39.16	56.37	-17.21	QP	
2		0.4780	29.20	0.16	29.36	46.37	-17.01	AVG	
3		0.5913	36.10	0.16	36.26	56.00	-19.74	QP	
4		0.5913	25.90	0.16	26.06	46.00	-19.94	AVG	
5		1.2226	41.30	0.17	41.47	56.00	-14.53	QP	
6		1.2226	30.20	0.17	30.37	46.00	-15.63	AVG	
7	*	1.3373	41.30	0.18	41.48	56.00	-14.52	QP	
8		1.3373	30.70	0.18	30.88	46.00	-15.12	AVG	
9		1.4827	41.10	0.18	41.28	56.00	-14.72	QP	
10		1.4827	28.80	0.18	28.98	46.00	-17.02	AVG	
11		3.8820	34.10	0.24	34.34	56.00	-21.66	QP	
12		3.8820	22.90	0.24	23.14	46.00	-22.86	AVG	

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Site ConductionRoom

Phase: **N**

Temperature: 26 °C

Limit: FCC Class B Conduction(QP)

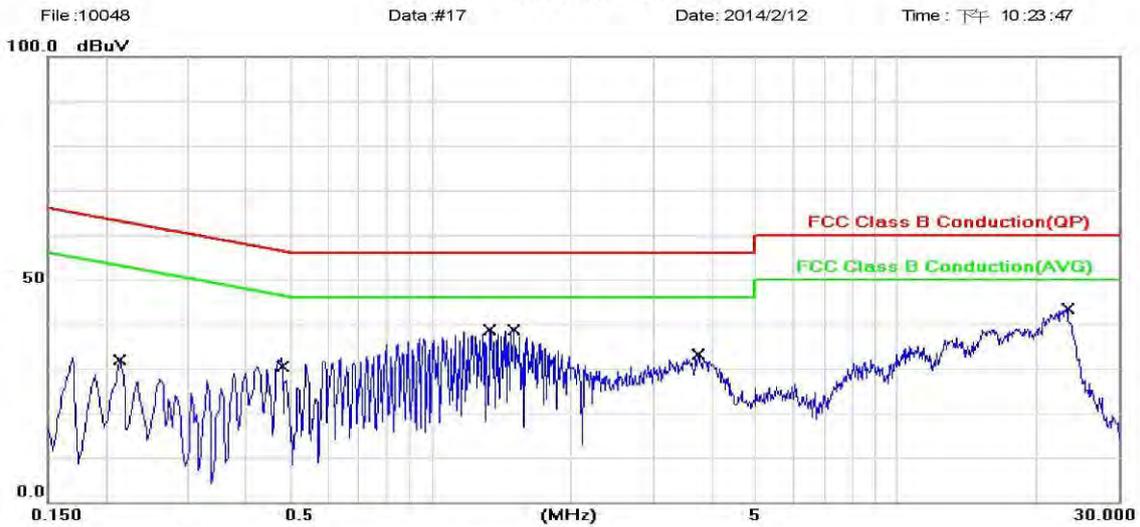
Power: AC 120V/60Hz

Humidity: 60%

Mode: Operation Mode

Note:

Conducted Emission



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.2134	26.80	0.19	26.99	63.07	-36.08	QP	
2		0.2134	18.00	0.19	18.19	53.07	-34.88	AVG	
3		0.4833	31.70	0.19	31.89	56.28	-24.39	QP	
4		0.4833	21.40	0.19	21.59	46.28	-24.69	AVG	
5 *		1.3413	34.80	0.21	35.01	56.00	-20.99	QP	
6		1.3413	21.80	0.21	22.01	46.00	-23.99	AVG	
7		1.5015	34.60	0.23	34.83	56.00	-21.17	QP	
8		1.5015	22.20	0.23	22.43	46.00	-23.57	AVG	
9		3.7420	27.30	0.28	27.58	56.00	-28.42	QP	
10		3.7420	16.40	0.28	16.68	46.00	-29.32	AVG	
11		23.3660	34.70	0.55	35.25	60.00	-24.75	QP	
12		23.3660	19.00	0.55	19.55	50.00	-30.45	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 The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 3 EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 4 When 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.
- 5 Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7 Repeat above procedures until all frequency of the interest measured were complete.

Auxiliary Procedure (Setting on Spectrum to capture the reading of emission level):

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold

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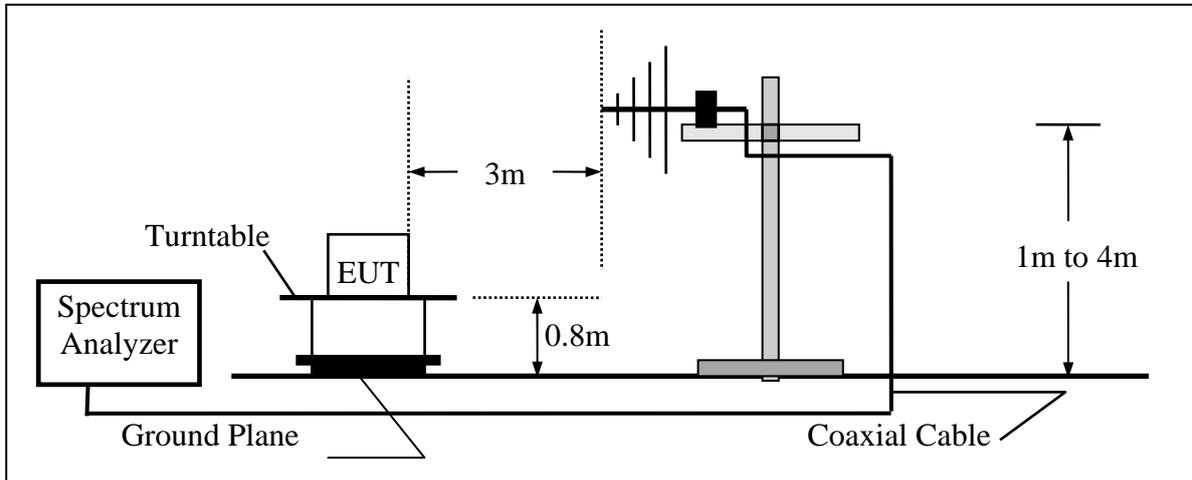
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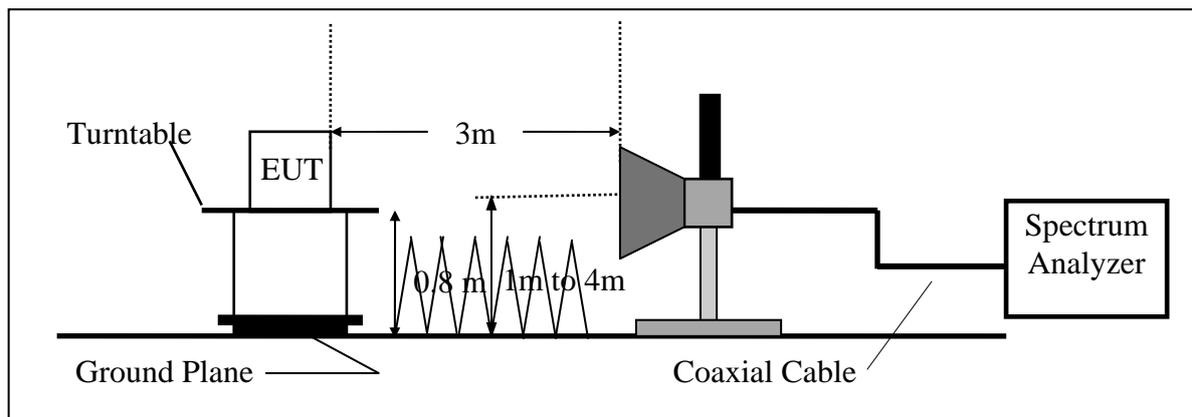
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7.2. Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz



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7.1 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESCI7	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
Spectrum Analyzer	R&S	FSV-30	101398	10/22/2013	10/21/2014
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/02/2014	01/02/2015
Horn antenna	ETS.LINDGREN	3117	123995	05/31/2013	05/30/2014
Horn Antenna	Schwarzbeck	BBHA9170	184	01/23/2014	01/22/2015
Pre-Amplifier	Agilent	8447D	2944A07676	01/03/2014	01/02/2015
Pre-Amplifier	Agilent	8449B	3008A00578	01/03/2014	01/02/2015
Pre-Amplifier	EMC Instruments Corp.	EMC184045	980135	01/24/2014	01/23/2015
Filter 2400-2483.5 MHz	EWT	EWT-14-0166	M2	02/28/2013	02/28/2014
Attenuator	Mini-Circuit	BW-S10W2+	004	02/28/2013	02/27/2014
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

7.2 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	

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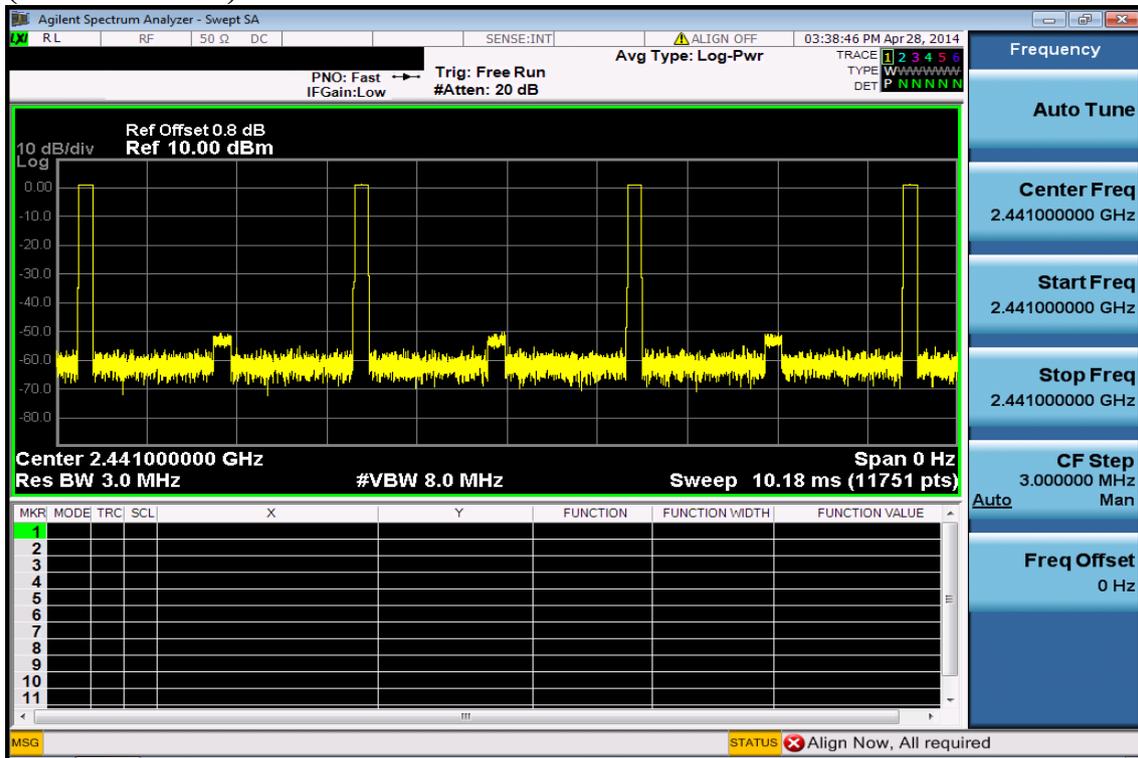
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On Time (Count Pulses) Plot on 2441MHz



Note:

Worst Case Duty Cycle = on time / 100 milliseconds = $4 * 0.157 / 100 = 0.628 \%$

Worst Case Duty Cycle correction factor = $20 \log (\text{Duty cycle}) = -44.04 \text{ dB}$

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Radiated Spurious Emission Measurement Result (MAIN)

For measurement plot of radiation, please refer to Appendix I.

Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
2402.00	F	Average	47.36	2.48	49.84	94.00	-44.16
2402.00	F	Peak	96.44	2.48	98.92	114.00	-15.08

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
2402.00	F	Average	46.89	2.48	49.37	94.00	-44.63
2402.00	F	Peak	97.06	2.48	99.54	114.00	-14.46

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
2441.00	F	Average	45.71	2.66	48.37	94.00	-45.63
2441.00	F	Peak	96.44	2.66	99.10	114.00	-14.90

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
2441.00	F	Average	46.00	2.66	48.66	94.00	-45.34
2441.00	F	Peak	99.12	2.66	101.78	114.00	-12.22

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Member of SGS Group

Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
2480.00	F	Average	46.35	2.75	49.10	94.00	-44.90
2480.00	F	Peak	90.32	2.75	93.07	114.00	-20.93

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
2480.00	F	Average	46.96	2.75	49.71	94.00	-44.29
2480.00	F	Peak	96.10	2.75	98.85	114.00	-15.15

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Radiated Spurious Emission Measurement Result

For measurement plot of radiation, please refer to Appendix I.

Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---” : denotes Noise Floor.

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
30.00	S	Peak	50.71	-14.10	36.61	40.00	-3.39
68.80	S	Peak	42.89	-15.20	27.69	40.00	-12.31
240.49	S	Peak	40.21	-13.24	26.97	46.00	-19.03
399.57	S	Peak	36.54	-9.18	27.36	46.00	-18.64
531.49	S	Peak	35.26	-7.54	27.72	46.00	-18.28
800.18	S	Peak	30.18	-2.29	27.89	46.00	-18.11
4804.00	H	Average	24.81	6.79	31.60	54.00	-22.40
4804.00	H	Peak	41.70	6.79	48.49	74.00	-25.51
7206.00	H	---					
9608.00	H	---					
12010.00	H	---					
14412.00	H	---					
16814.00	H	---					
19216.00	H	---					
21618.00	H	---					
24020.00	H	---					

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
68.80	S	Peak	37.82	-15.20	22.62	40.00	-17.38
145.43	S	Peak	39.95	-12.95	27.00	43.50	-16.50
218.18	S	Peak	43.43	-14.62	28.81	46.00	-17.19
399.57	S	Peak	33.25	-9.18	24.07	46.00	-21.93
532.46	S	Peak	35.92	-7.56	28.36	46.00	-17.64
951.50	S	Peak	27.28	0.18	27.46	46.00	-18.54
4804.00	H	Average	24.85	6.79	31.64	54.00	-22.36
4804.00	H	Peak	38.49	6.79	45.28	74.00	-28.72
7206.00	H	---					
9608.00	H	---					
12010.00	H	---					
14412.00	H	---					
16814.00	H	---					
19216.00	H	---					
21618.00	H	---					
24020.00	H	---					

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
30.00	S	Peak	49.71	-14.10	35.61	40.00	-4.39
68.80	S	Peak	41.89	-15.20	26.69	40.00	-13.31
218.18	S	Peak	40.26	-14.62	25.64	46.00	-20.36
399.57	S	Peak	32.54	-9.18	23.36	46.00	-22.64
531.49	S	Peak	33.26	-7.54	25.72	46.00	-20.28
667.29	S	Peak	28.87	-4.10	24.77	46.00	-21.23
4882.00	H	Average	25.90	6.96	32.86	54.00	-21.14
4882.00	H	Peak	45.61	6.96	52.57	74.00	-21.43
7323.00	H	---					
9764.00	H	---					
12205.00	H	---					
14646.00	H	---					
17087.00	H	---					
19528.00	H	---					
21969.00	H	---					
24410.00	H	---					

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
68.80	S	Peak	38.82	-15.20	23.62	40.00	-16.38
145.43	S	Peak	38.95	-12.95	26.00	43.50	-17.50
166.77	S	Peak	36.53	-12.83	23.70	43.50	-19.80
218.18	S	Peak	41.43	-14.62	26.81	46.00	-19.19
491.72	S	Peak	31.52	-7.66	23.86	46.00	-22.14
530.52	S	Peak	33.38	-7.54	25.84	46.00	-20.16
4882.00	H	Average	25.56	6.96	32.52	54.00	-21.48
4882.00	H	Peak	41.51	6.96	48.47	74.00	-25.53
7323.00	H	---					
9764.00	H	---					
12205.00	H	---					
14646.00	H	---					
17087.00	H	---					
19528.00	H	---					
21969.00	H	---					
24410.00	H	---					

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
30.97	S	Peak	50.22	-14.03	36.19	40.00	-3.81
67.83	S	Peak	45.26	-15.03	30.23	40.00	-9.77
215.27	S	Peak	43.44	-14.77	28.67	43.50	-14.83
399.57	S	Peak	36.30	-9.18	27.12	46.00	-18.88
531.49	S	Peak	35.18	-7.54	27.64	46.00	-18.36
949.56	S	Peak	28.03	0.18	28.21	46.00	-17.79
4960.00	H	Average	24.12	7.09	31.21	54.00	-22.79
4960.00	H	Peak	41.38	7.09	48.47	74.00	-25.53
7440.00	H	---					
9920.00	H	---					
12400.00	H	---					
14880.00	H	---					
17360.00	H	---					
19840.00	H	---					
22320.00	H	---					
24800.00	H	---					

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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL

Actual FS(dBμV/m) = SPA. Reading level(dBμV) + Factor(dB)

Factor(dB) = Antenna Factor(dBμV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

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

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

“---“ : denotes Noise Floor.

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
67.83	S	Peak	39.12	-15.03	24.09	40.00	-15.91
144.46	S	Peak	39.05	-12.99	26.06	43.50	-17.44
216.24	S	Peak	43.86	-14.72	29.14	46.00	-16.86
399.57	S	Peak	32.42	-9.18	23.24	46.00	-22.76
531.49	S	Peak	36.25	-7.54	28.71	46.00	-17.29
964.11	S	Peak	27.03	0.20	27.23	54.00	-26.77
4960.00	H	Average	23.83	7.09	30.92	54.00	-23.08
4960.00	H	Peak	38.08	7.09	45.17	74.00	-28.83
7440.00	H	---					
9920.00	H	---					
12400.00	H	---					
14880.00	H	---					
17360.00	H	---					
19840.00	H	---					
22320.00	H	---					
24800.00	H	---					

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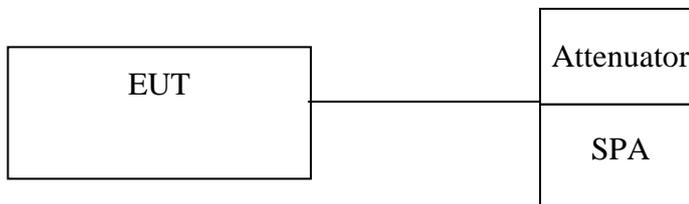
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8. 20 dB BAND WIDTH MEASUREMENT

8.1 Measurement Procedure

- 1 Place the EUT on the table and set it in transmitting mode.
- 2 Set the spectrum analyzer Frequency = fundamental frequency, RBW=30 kHz, VBW = 100 kHz, Span= 3MHz, Sweep=auto, Detector = Peak, and Max hold for 20dB test.
- 3 Mark the max reading.

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.
Power Meter	Anritsu	ML2495A	1005007	01/13/2014	01/12/2015
Power Sensor	Anritsu	MA2411B	917032	01/13/2014	01/12/2015
Spectrum Analyzer	Agilent	E4446A	MY51100003	05/30/2013	05/29/2014
Spectrum Analyzer	Agilent	E4440A	MY45304525	03/15/2013	03/14/2014
DC Block	Mini-Circuits	BLK-18-S+	1	02/28/2013	02/27/2014
Low Loss Cable	HUBER+SUHNER	SUCOFLEX 104PEA	N/A	01/03/2014	01/02/2015
Attenuator	Mini-Circuit	BW-S10W2+	002	02/28/2013	02/27/2014
Splitter	Agilent	11636B	N/A	02/28/2013	02/27/2014

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8.4. Measurement Results:

20dB Bandwidth:

Frequency MHz	20dB Bandwidth (MHz)
2402	0.8458
2442	0.7690
2480	0.9078

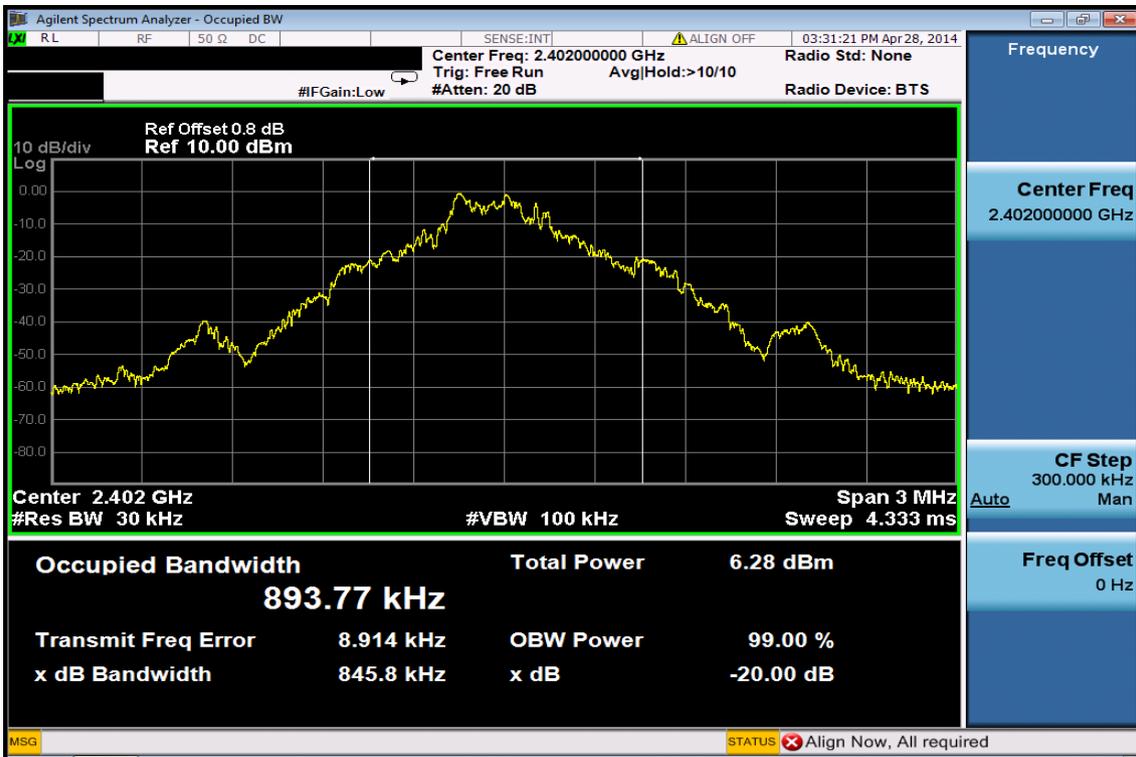
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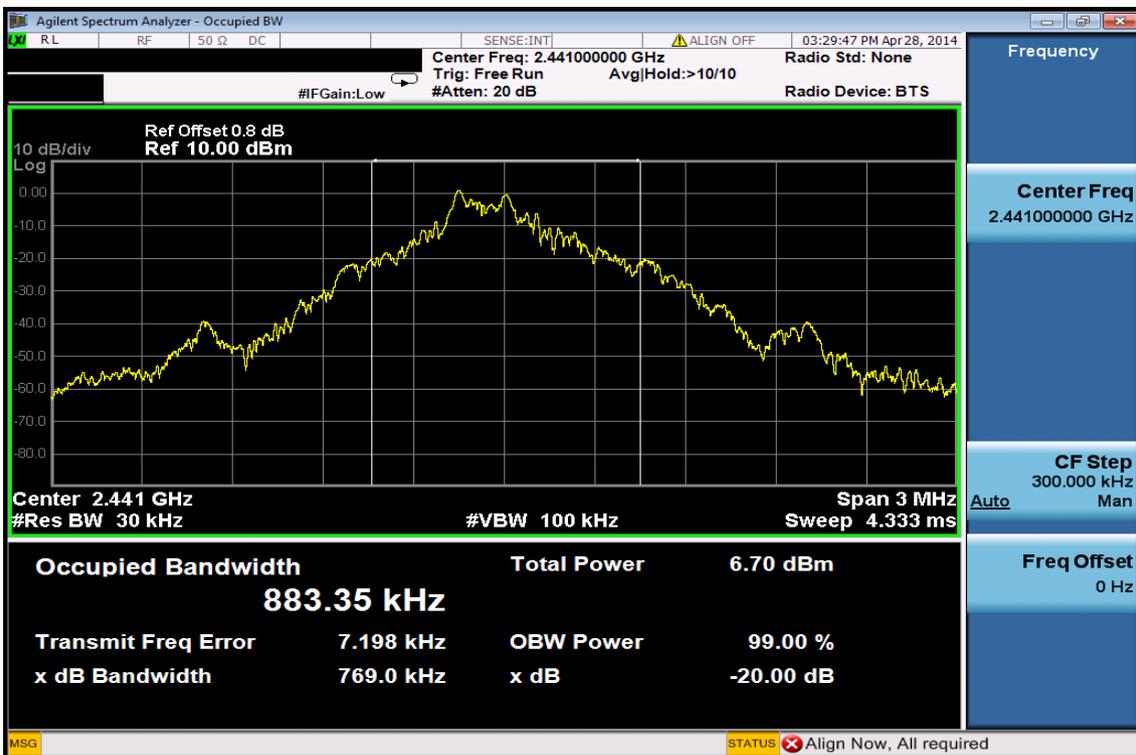
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20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid



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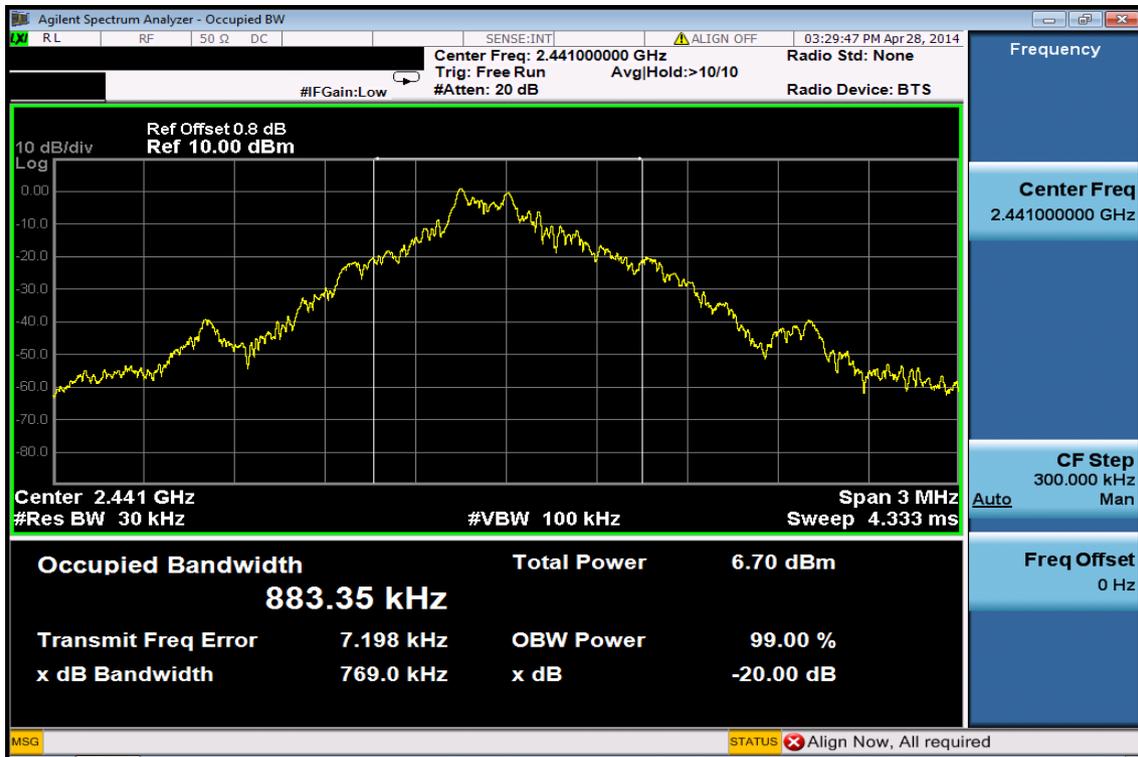
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20dB Bandwidth Test Data CH- High



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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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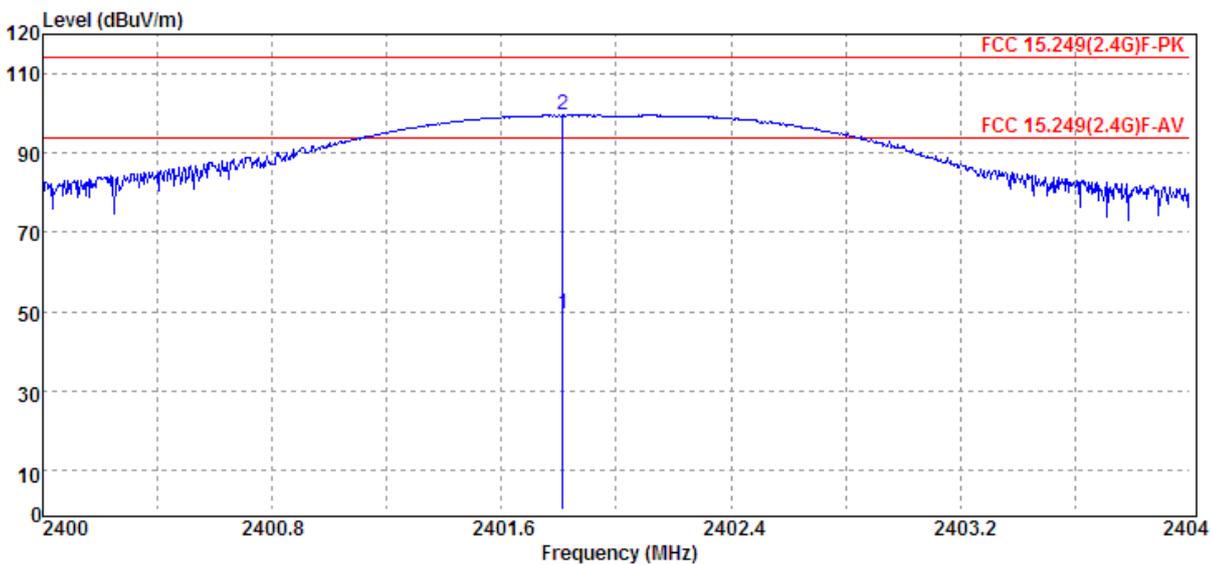
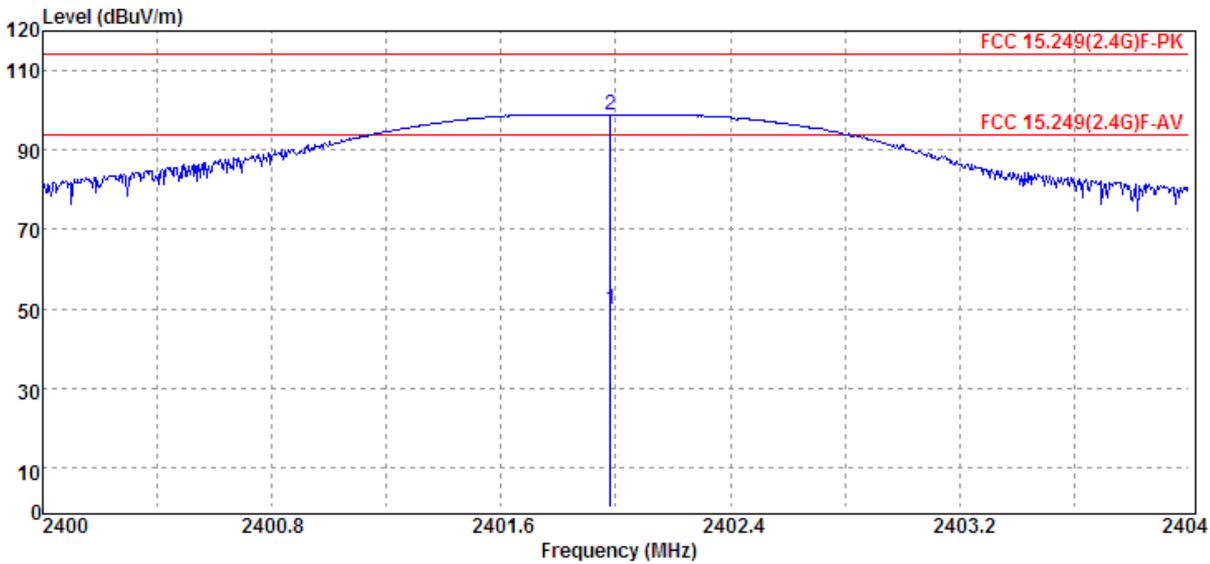
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Radiated Spurious Emission Measurement Result (MAIN)

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

Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	: Ver. / Hor.



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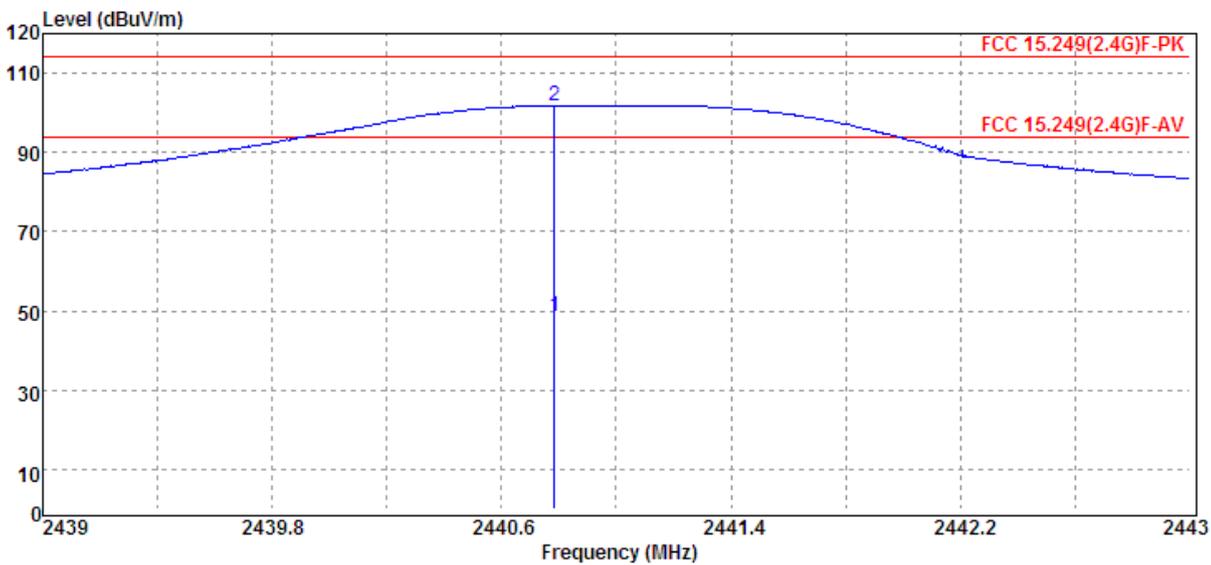
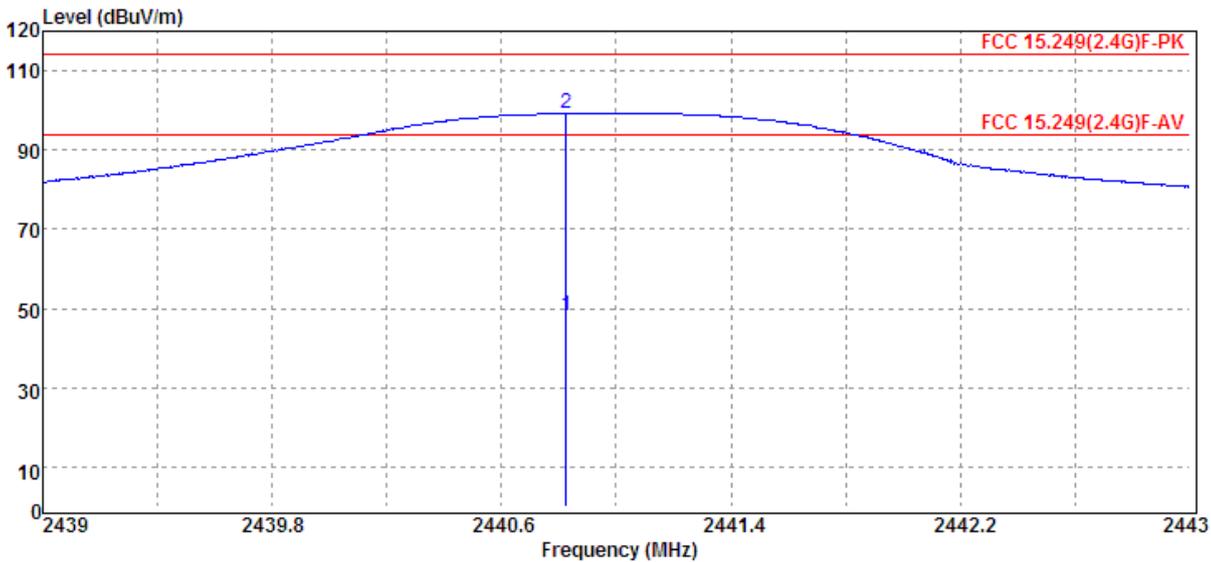
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	: Ver. / Hor.



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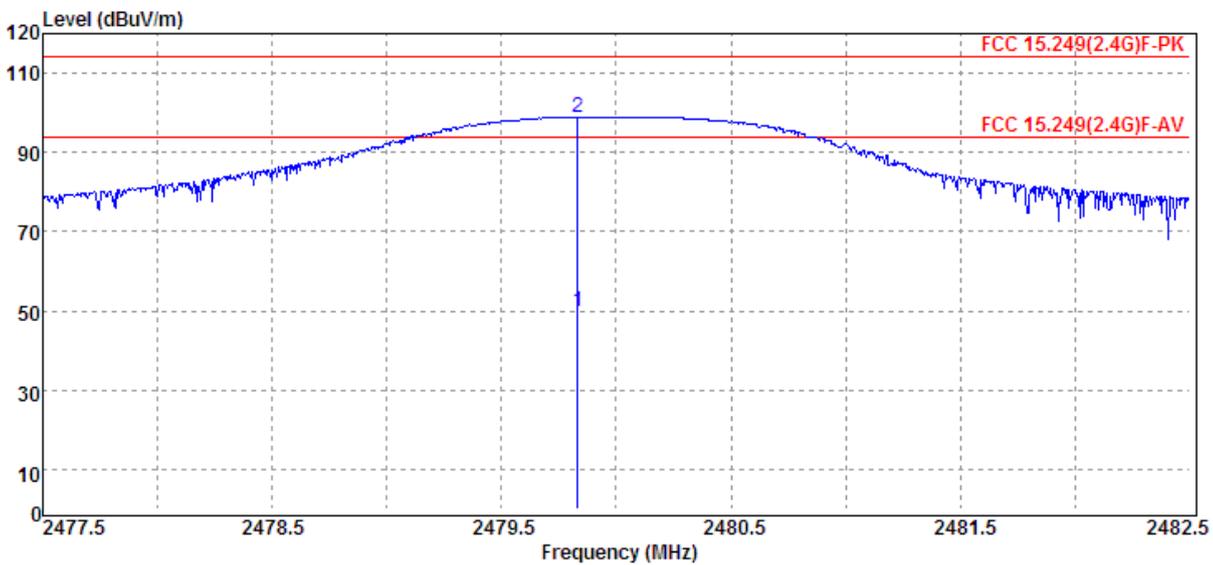
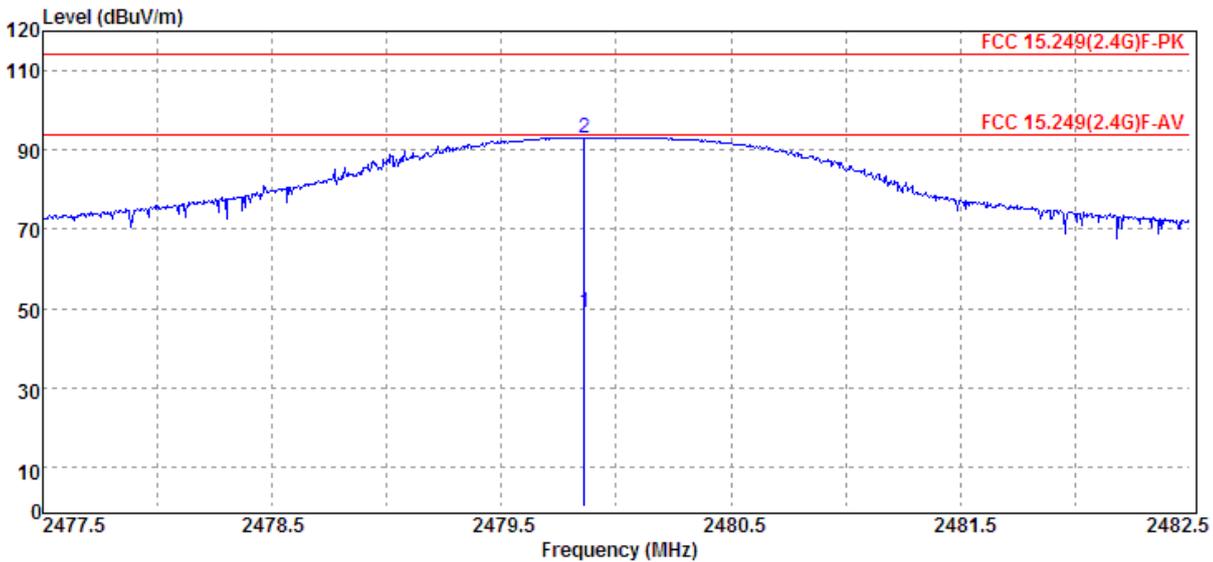
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:MAIN	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	: Ver. / Hor.



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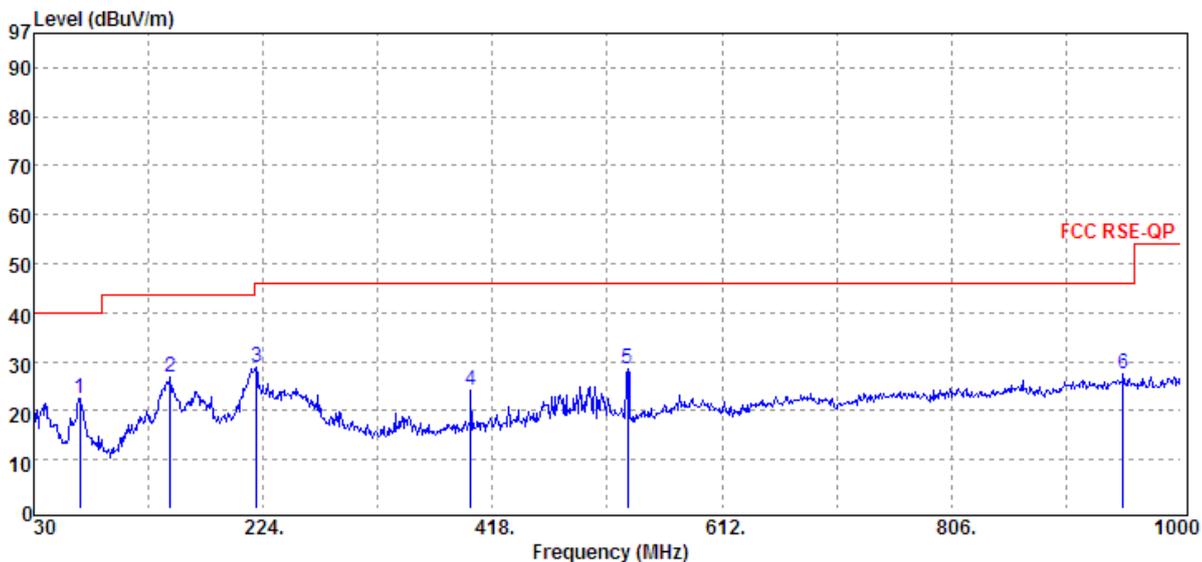
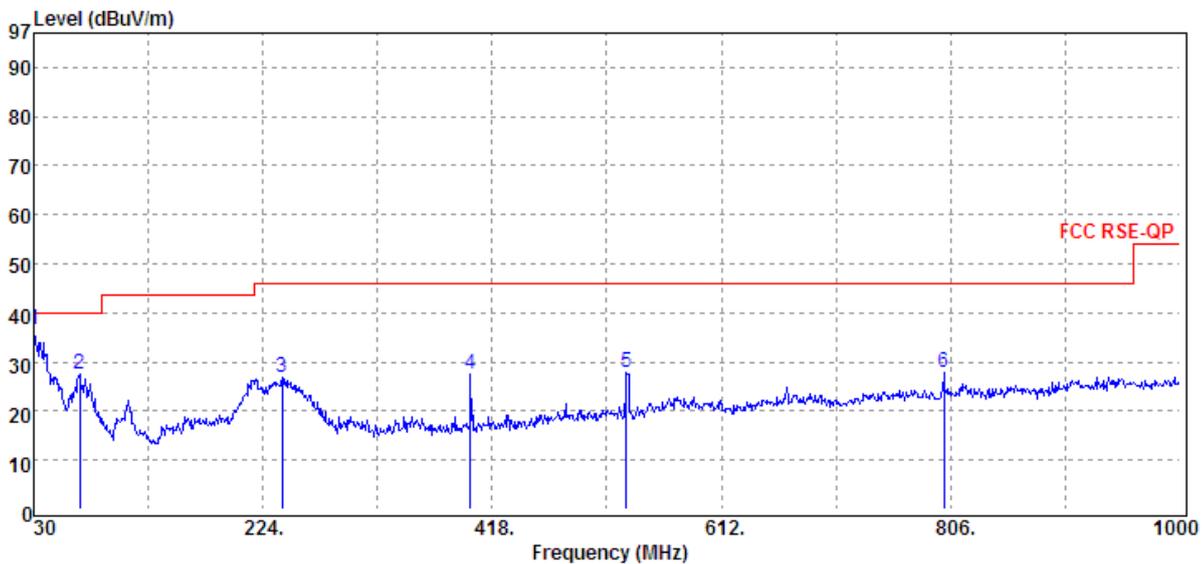
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Radiated Spurious Emission Measurement Result – Below 1G

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

Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	: Ver. / Hor.



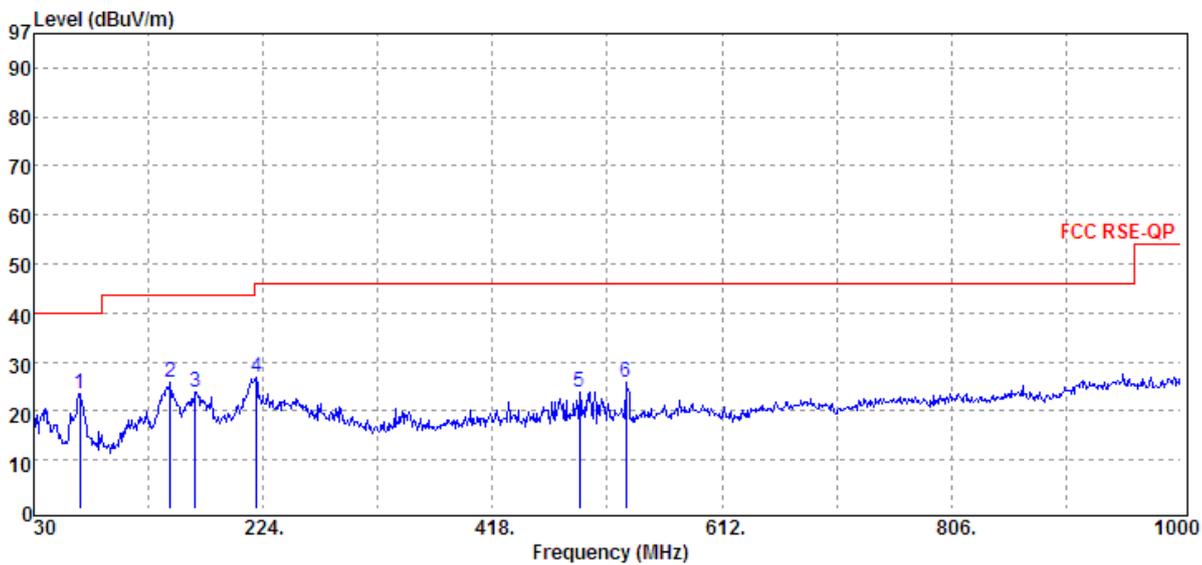
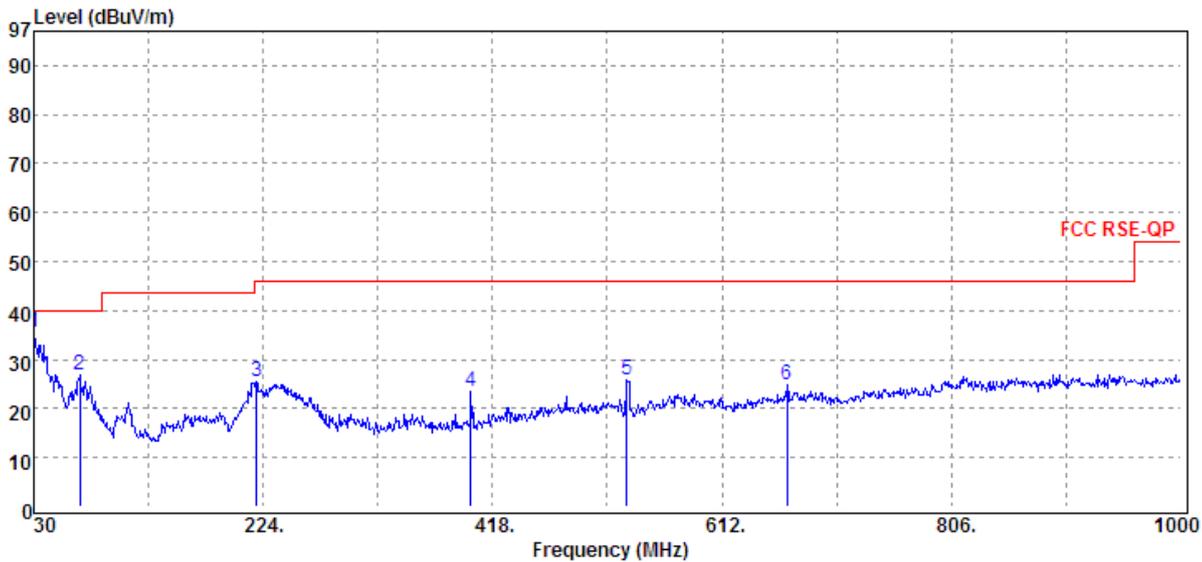
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	: Ver. / Hor.



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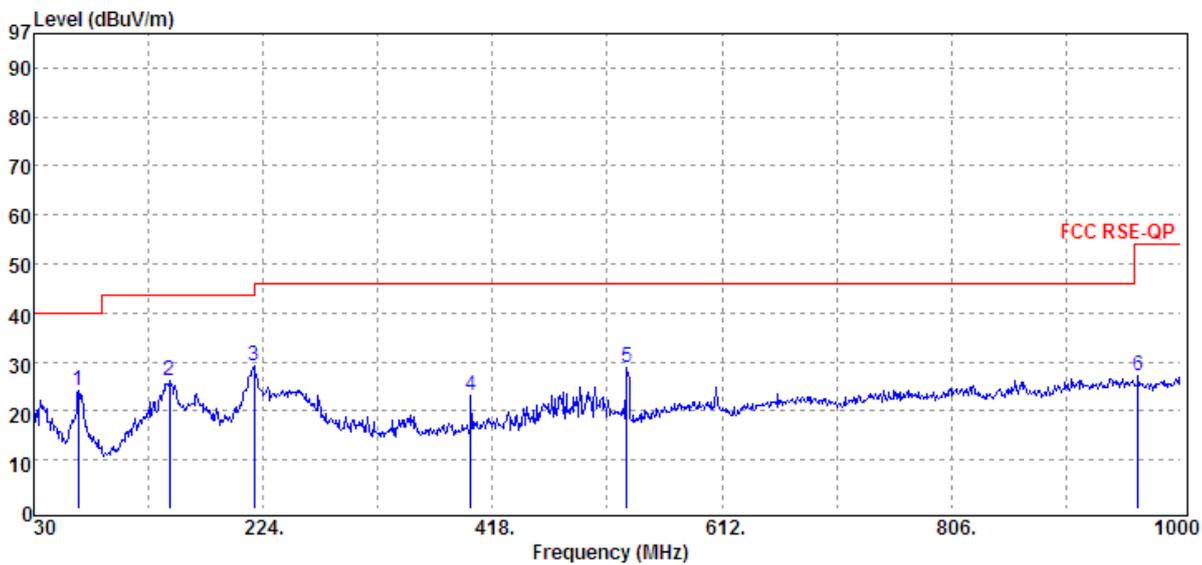
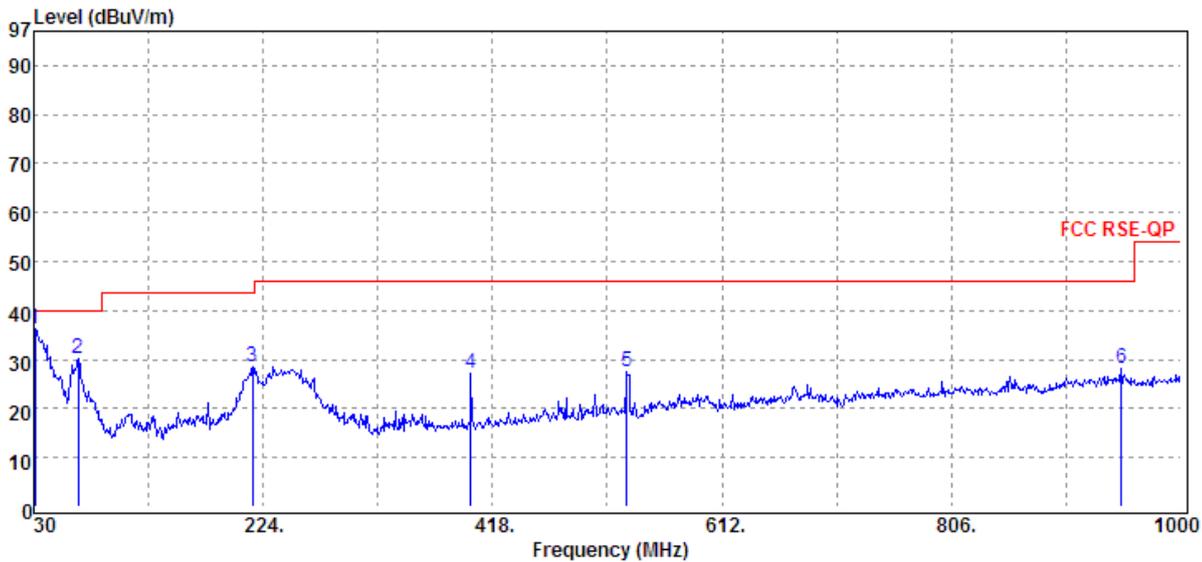
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	: Ver. / Hor.



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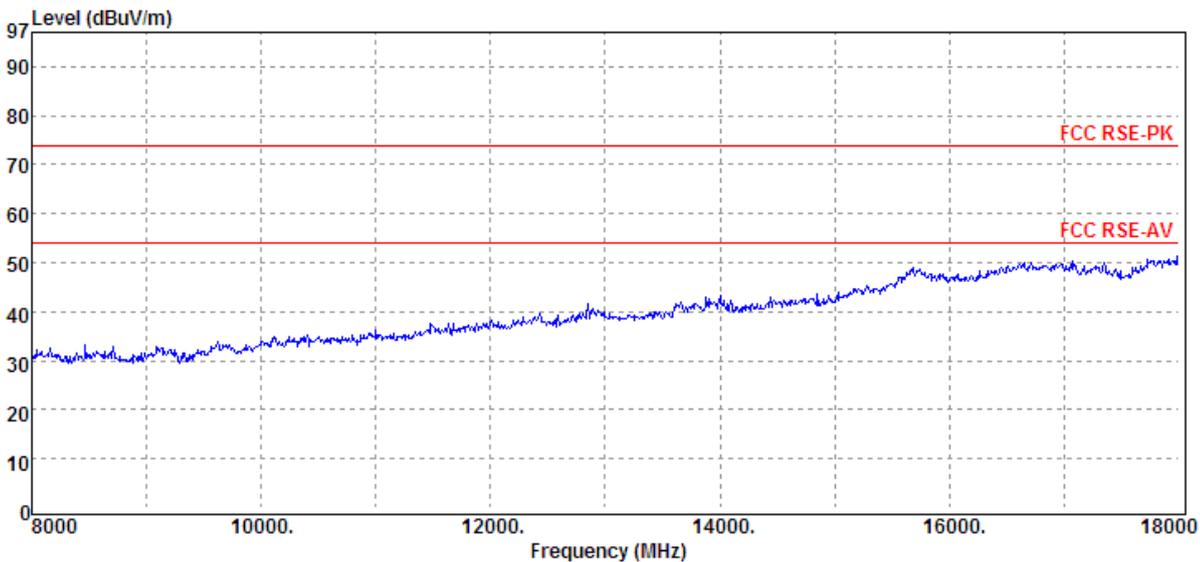
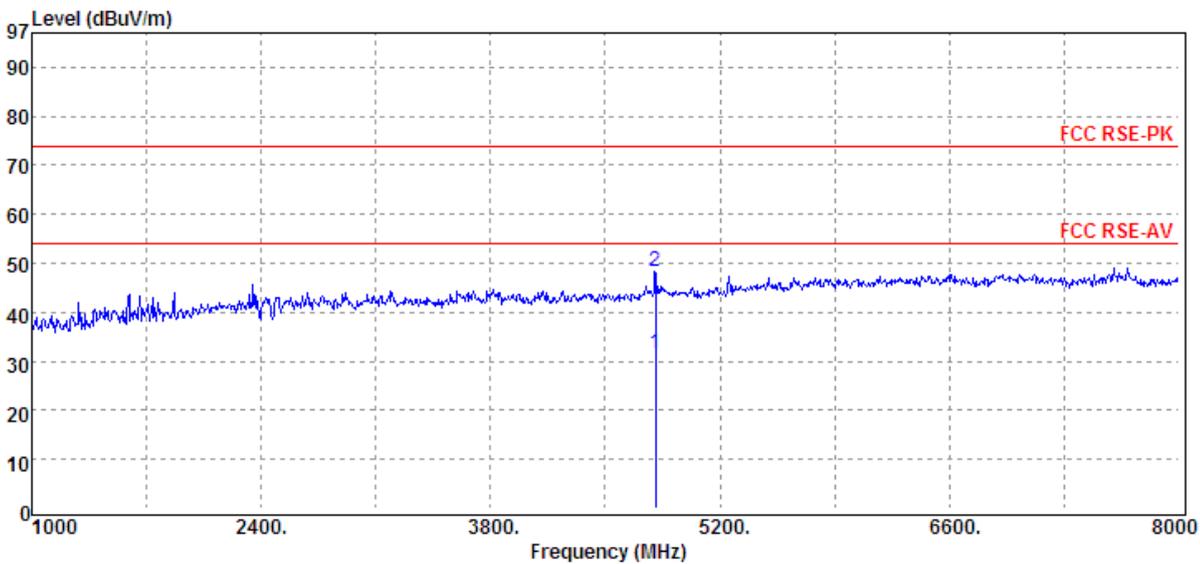
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Radiated Spurious Emission Measurement Result – Above 1G

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

Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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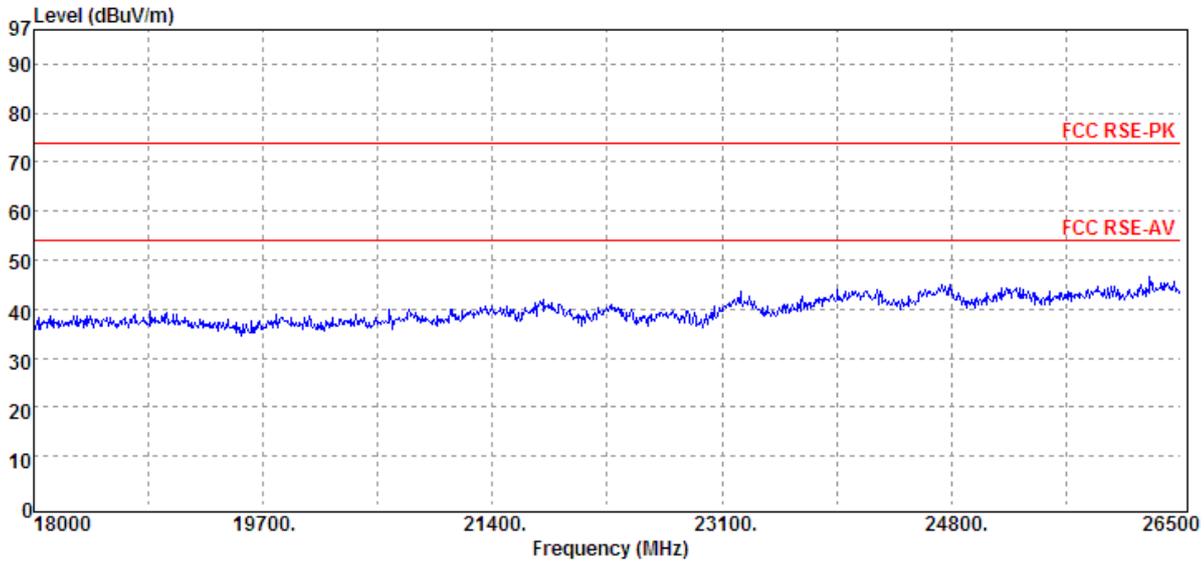
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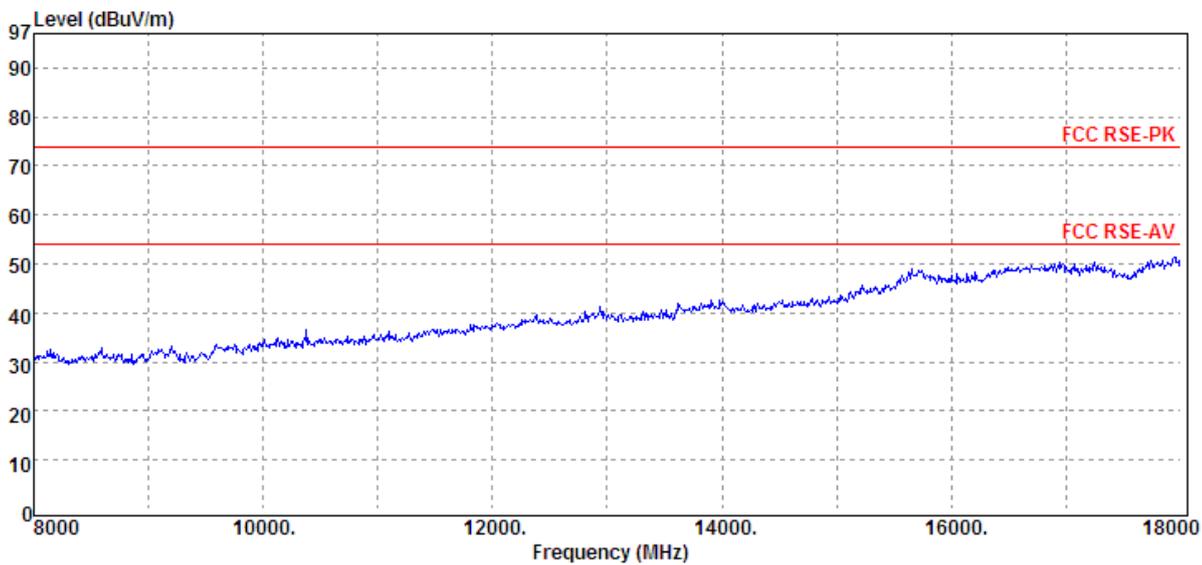
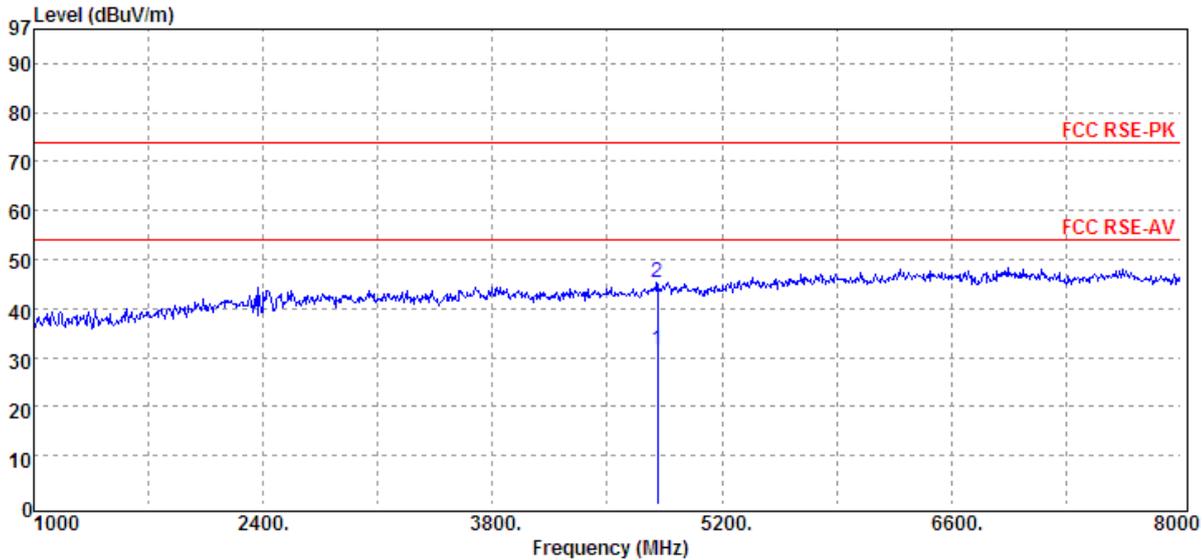
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2402 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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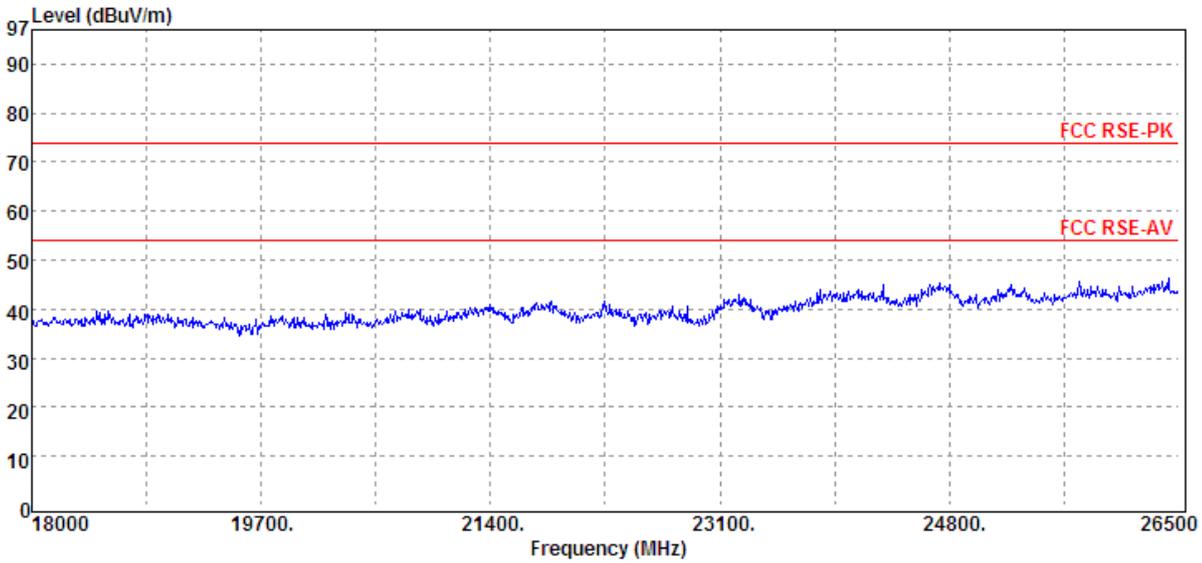
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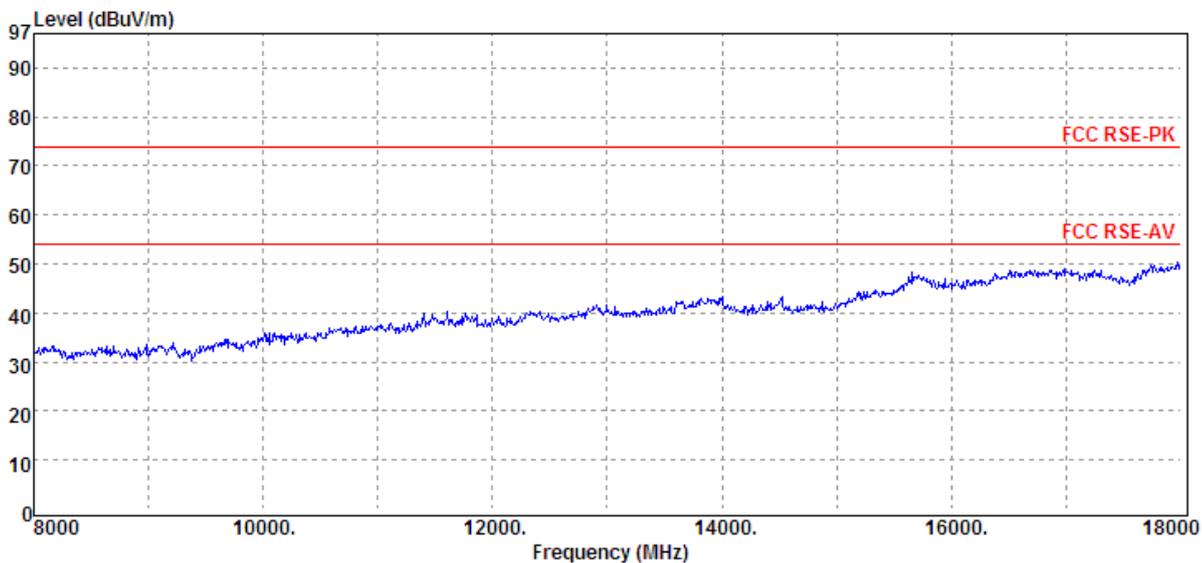
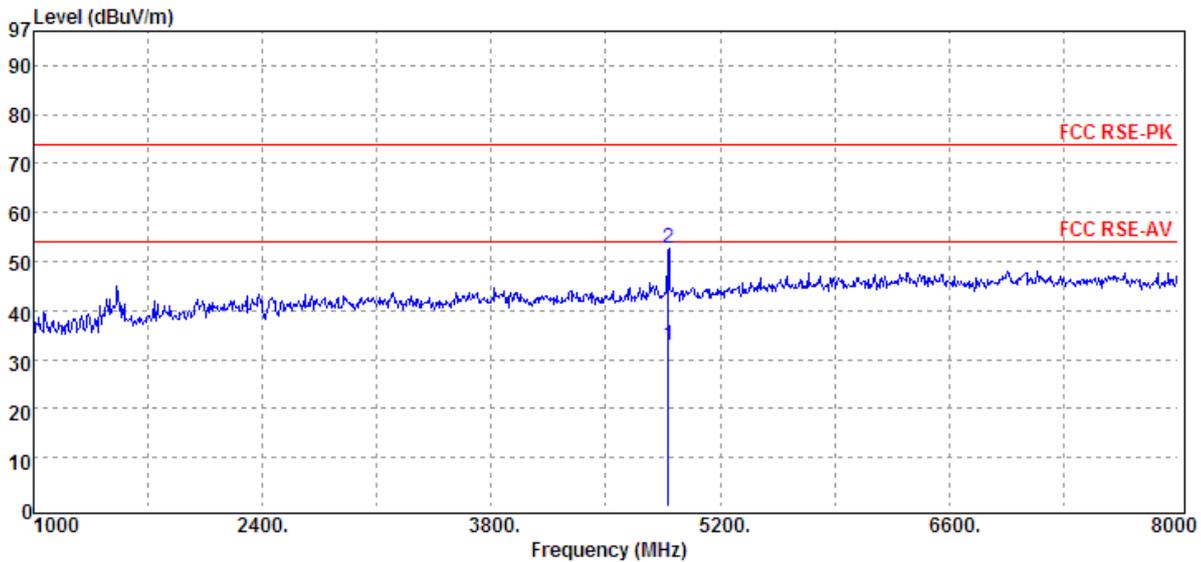
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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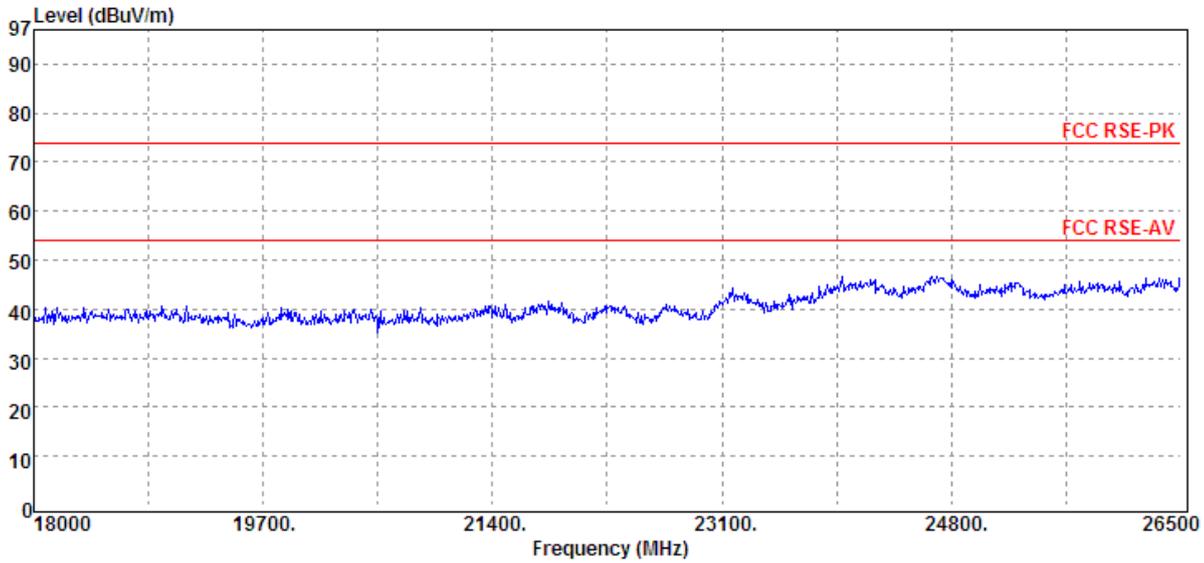
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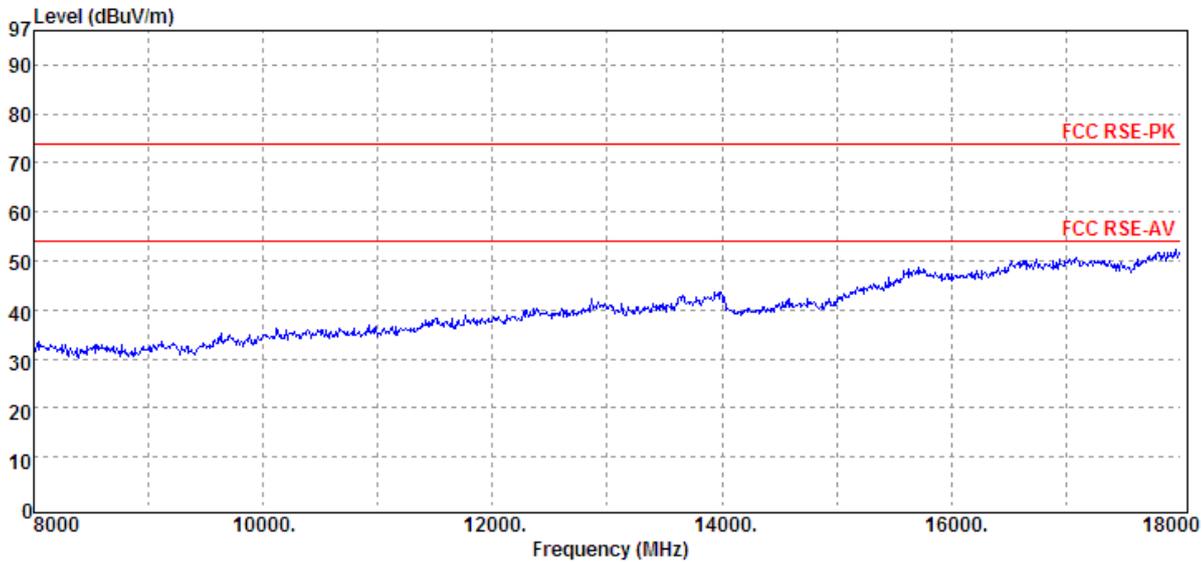
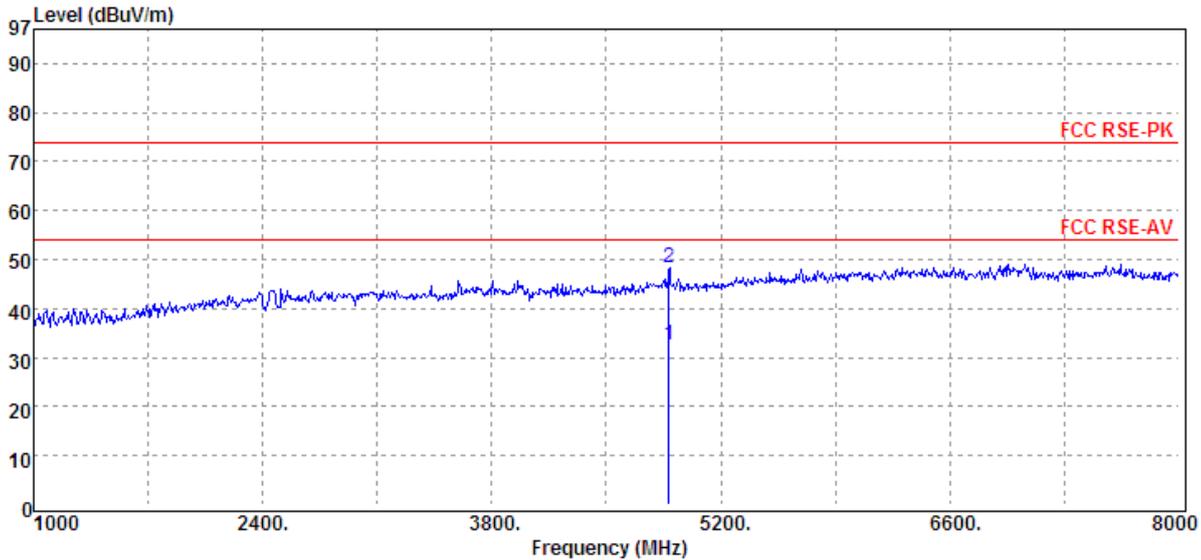
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2441 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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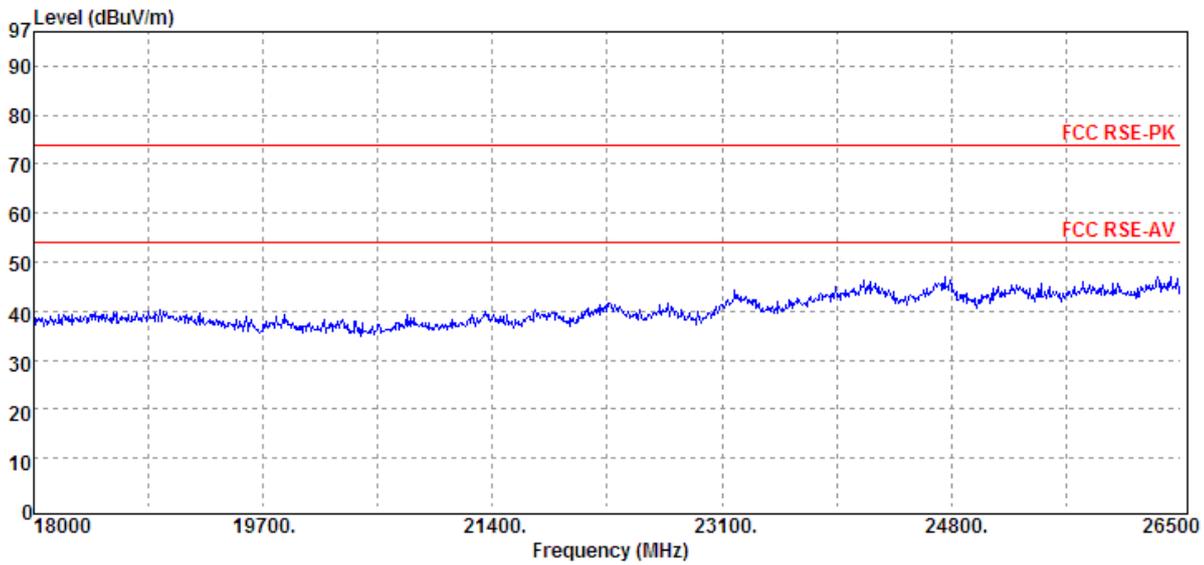
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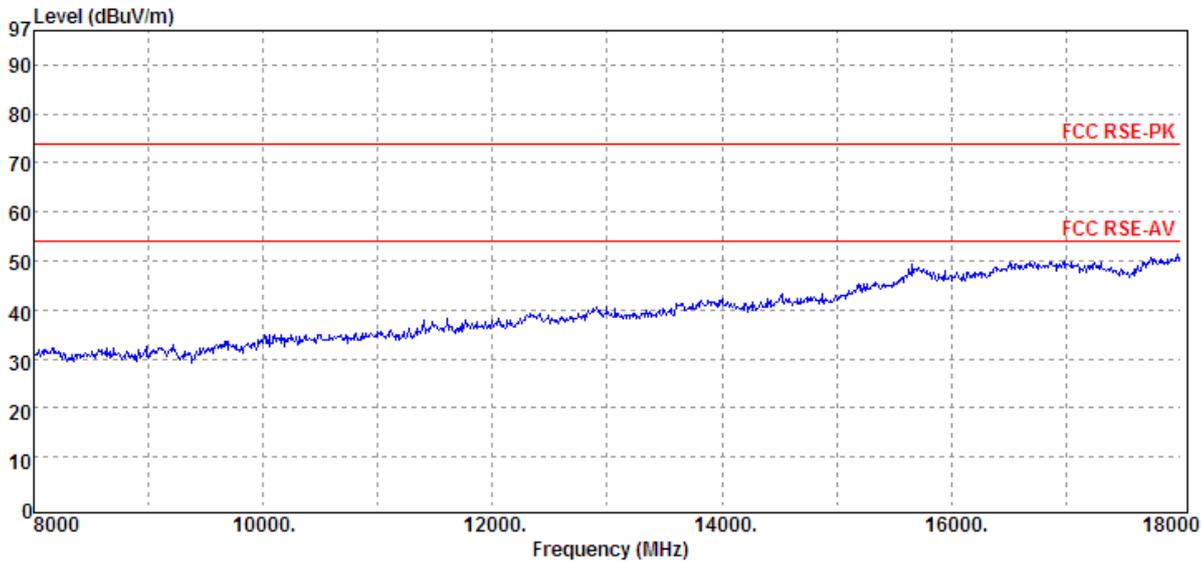
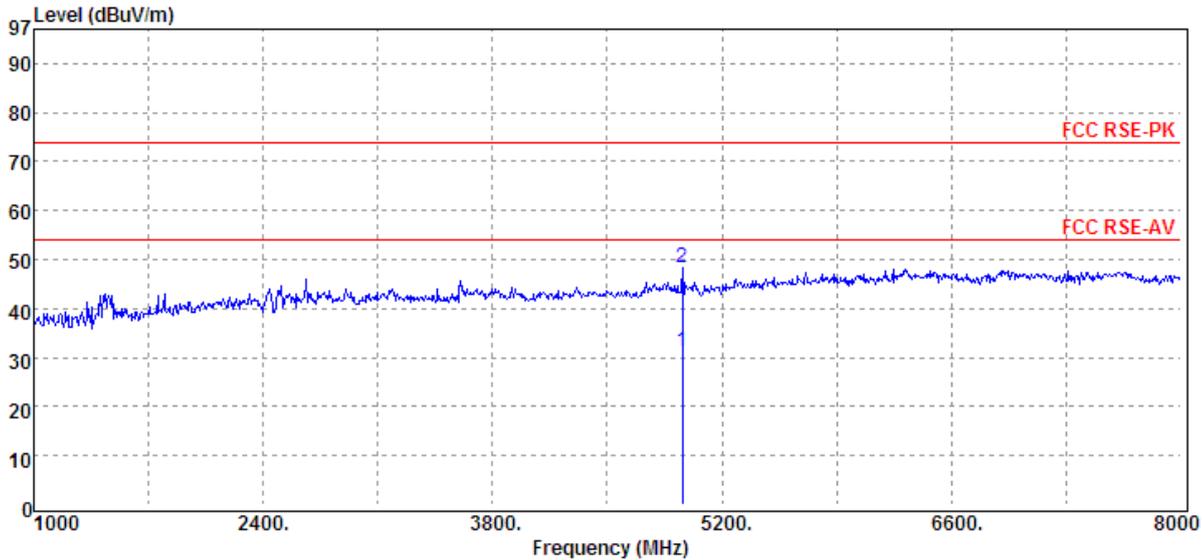
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Operation Band	:ANT+	Test Date	:2014-02-27
Fundamental Frequency	:2480 MHz	Temp./Humi.	:20.5deg_C/57RH
Operation Mode	:TX	Engineer	:Allen
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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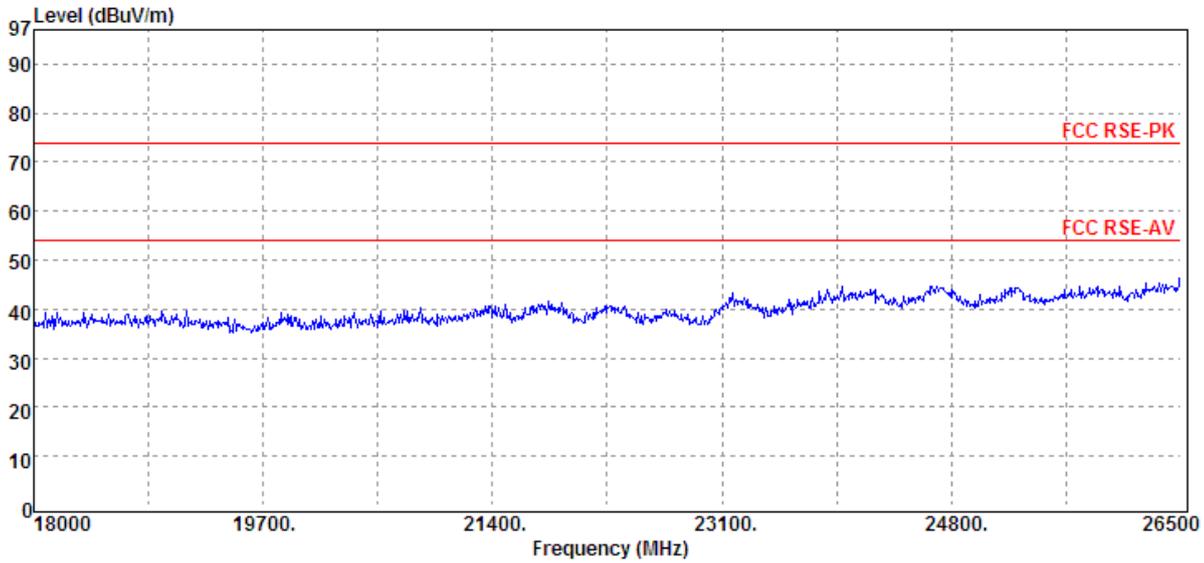
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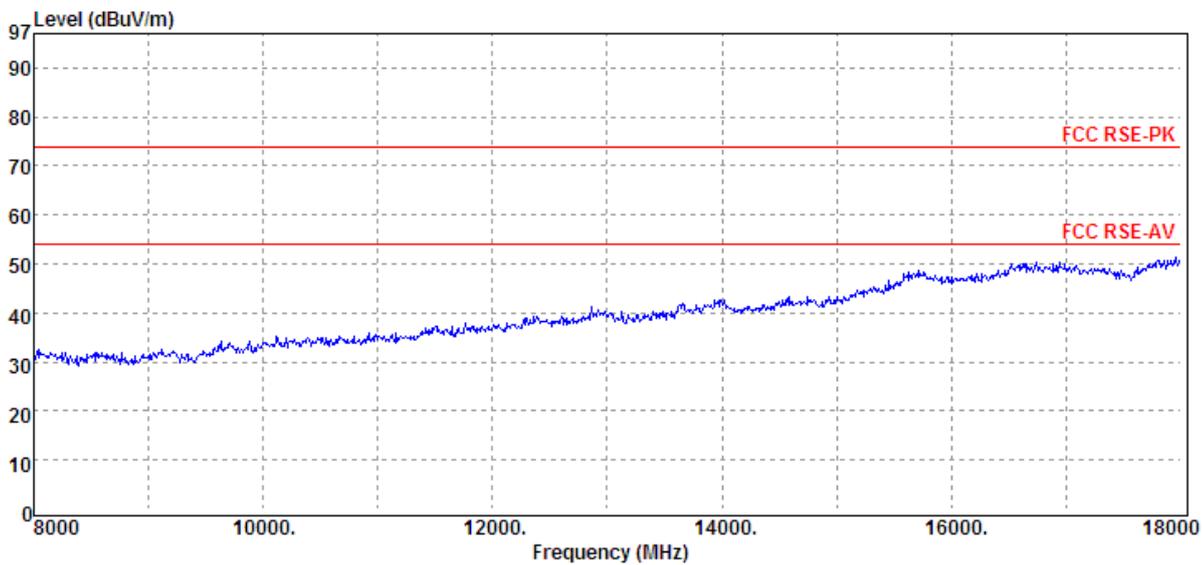
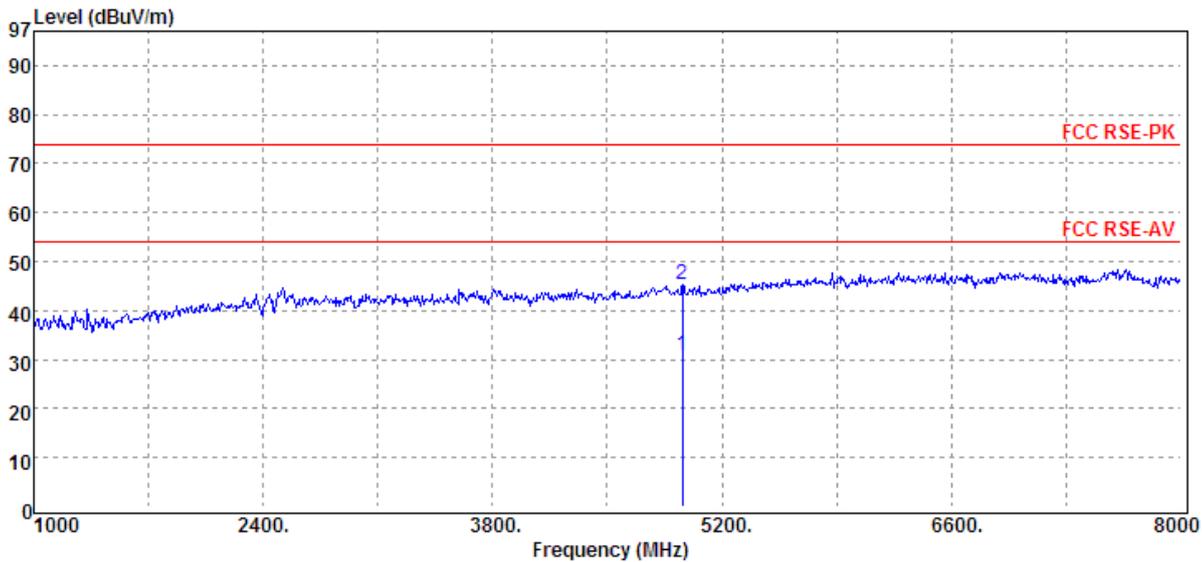
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EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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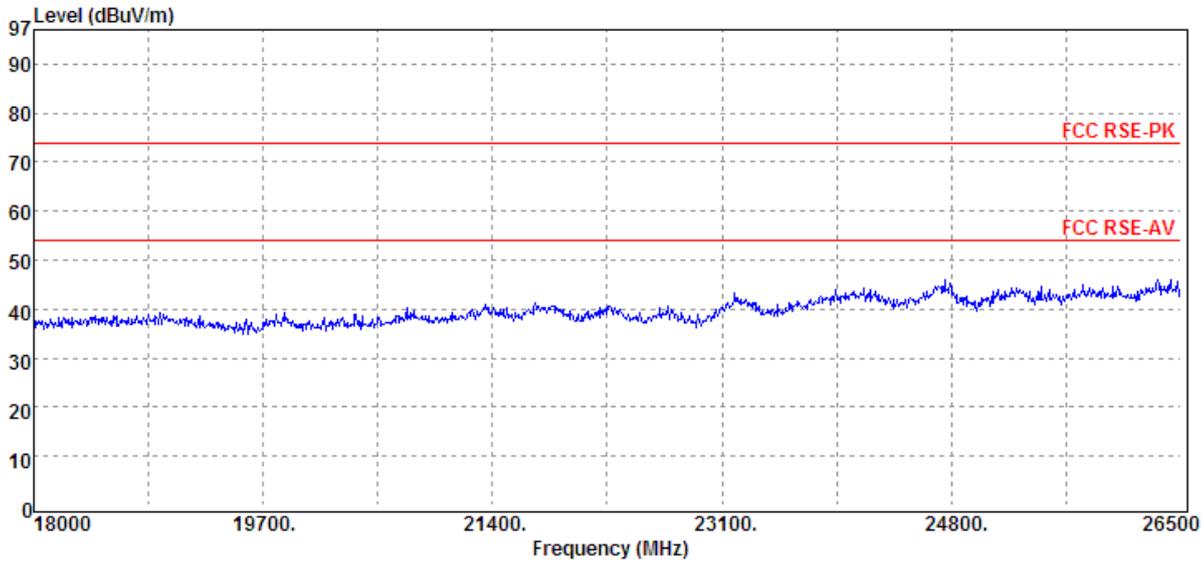
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