

12. UNDESIRABLE EMISSION - RADIATED MEASUREMENT

12.1 Standard Applicable

According to §15.407(b) (6) (7),

(b) Undesirable Emission Limits: Except as shown in Paragraph (b)(6) of this section, the peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
- (2) The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
- (3) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency block edges as the design of the equipment permits.

Procedure H1) a) b) c) are adopted, KDB 789033 D01, where the conducted measurement is being used to comply with out of emission requirement as per FCC 15.407 b) 6) 7), and RSS-Gen 7.2.2.

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§15.205- RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	(²)
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

² Above 38.6

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

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§15.209- RADIATED EMISSION LIMITS: GENERAL REQUIREMENTS

FCC PART 15.209

MEASURING DISTANCE OF 3 METER		
FREQUENCY RANGE (MHz)	FIELD STRENGTH (Microvolts/m)	FIELD STRENGTH (dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

According to RSS-Gen section 4.9 Transmitter Unwanted Emissions

The measurement method shall be described in the test report. When the applicable unwanted emissions limits are defined in relative terms, the same parameter, peak power or average power, used for the transmitter output power measurement, shall be used for unwanted emission measurements.

In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given in (a) and (b):

- (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
- (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.

Particular attention should be paid to harmonics and sub-harmonics of the carrier frequency, as well as to those frequencies removed from the carrier by multiples of the oscillator frequency. Radiation at the frequencies of multiplier stages should also be checked.

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value need not be reported.

When limits are expressed in absolute terms, compliance with the emission limits shall be demonstrated using a CISPR quasi-peak detector and the related measurement bandwidth for emissions below 1000 MHz. As an alternative to CISPR quasi-peak measurement, compliance with the emission limits can be demonstrated using measuring equipment employing a peak detector function properly adjusted for factors such as pulse desensitization as required, with an equal or greater measurement bandwidth relative to the applicable CISPR quasi-peak bandwidth.

Above 1000 MHz, compliance with the emission limits shall be demonstrated using an average detector with a minimum resolution bandwidth of 1 MHz.

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According to RSS-Gen section 7.2.2 Emissions Falling Within Restricted Frequency Bands

Restricted bands, identified in Table 1, are designated primarily for safety-of-life services (distress calling and certain aeronautical bands), certain satellite downlinks, radio astronomy and some government uses. Except where otherwise indicated, the following restrictions apply:

- (a) Fundamental components of modulation of licence-exempt radio apparatus shall not fall within the restricted bands of Table 1;
- (b) Unwanted emissions falling into restricted bands of Table 1 shall comply with the limits specified in RSS-Gen;
- (c) Unwanted emissions not falling within restricted frequency bands shall either comply with the limits specified in the applicable RSS, or with those specified in RSS-Gen.

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Table 3: Restricted Frequency Bands ^(Note)

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

Note: Certain frequency bands listed in Table 1 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300- series RSSs, such as RSS-210 and RSS-310, which contain the requirements that apply to licence-exempt radio apparatus.

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12.1.1 Transmitter Spurious Emission Limits

Spurious emissions from licence-exempt transmitters shall comply with the field strength limits shown below. Additionally, the level of any transmitter spurious emission shall not exceed the level of the transmitter's fundamental emission.

Table 5: General Field Strength Limits for Transmitters at Frequencies Above 30 MHz

Frequency (MHz)	Field Strength (microvolt/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

Note: Transmitting devices are not permitted in Table 1 bands or, unless stated otherwise, in TV bands (54-72 MHz, 76-88 MHz, 174-216 MHz, 470-608 MHz and 614-806 MHz).

12.1.2 Unwanted Emission that complies with the undesirable emission ruling by 15.407 (b) (1) (2) (3), RSS-210 A9.2 (1) (2) (3)

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBuV/m)
5150 – 5250	-27	68.3
5250 – 5350	-27	68.3
5470 - 5725	-27	68.3

Limit derivation in terms of Field Strength:

$EIRP = (E \cdot d)^2 / 30$, where E is the field in V/m, d is the measurement distance (3m), EIRP is the equivalent isotropically radiated power in Watts.

$$E = 1000000 \cdot (30 \cdot EIRP)^{1/2} / 3 \text{ uV/m}$$

$$= 68.3 \text{ dBuV/m}$$

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12.2 EUT Setup

1. The radiated emission tests were performed in the 3 meter open-test site, using the setup in accordance with the ANSI C63.4:2009 & ANSI C63.10:2009.
2. The EUT was put in the front of the test table. The host PC system was placed on the center of the back edge on the test table. The peripherals like modem, monitor printer, K/B, and mouse were placed on the side of the host PC system. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The keyboard was placed directly in the front of the monitor, flushed with the front tabletop. The mouse was placed next to the Keyboard, flushed with the back of keyboard.
4. The spacing between the peripherals was 10 centimeters.
5. External I/O cables were draped along the edge of the test table and bundle when necessary.
6. The host PC system was connected with 120Vac/60Hz power source.

12.3 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. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until all frequency measured were complete.

For measurements below 1GHz, follow the KDB 789033 D01 requirements in section H)3), "General Requirements for Unwanted Emissions Measurements" Compliance shall be demonstrated using CISPR quasi-peak detection; however, peak detection is permitted as an alternative to quasi-peak detection.

For Measurement above 1GHz, for peak unwanted emission measurements follow the KDB 789033 D01 requirements in section H)5) b), for average unwanted emission measurements follow the KDB 789033 D01 requirements in section H)6) c) or d).

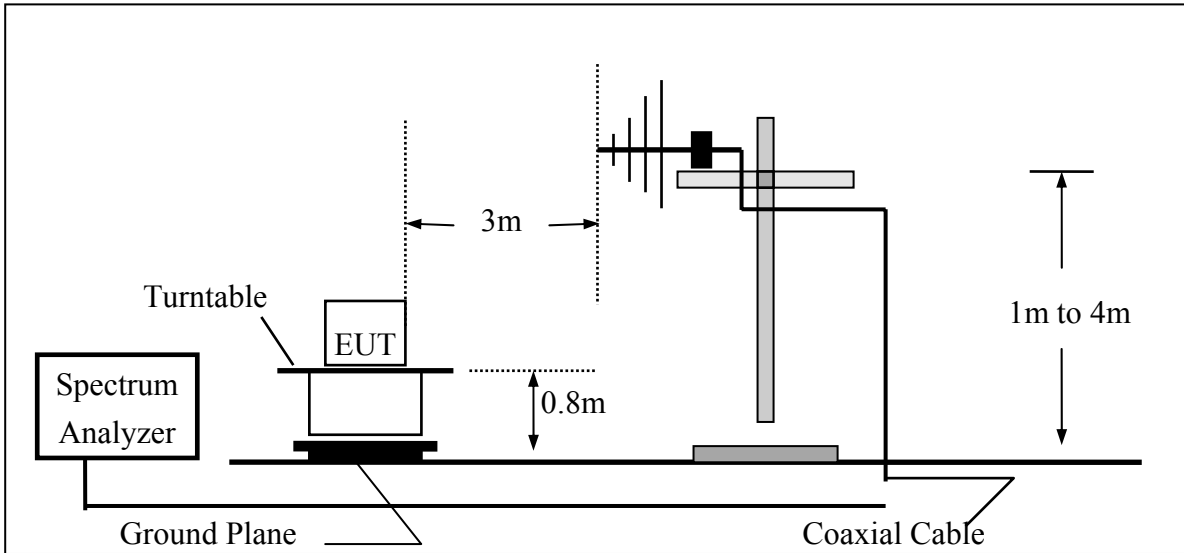
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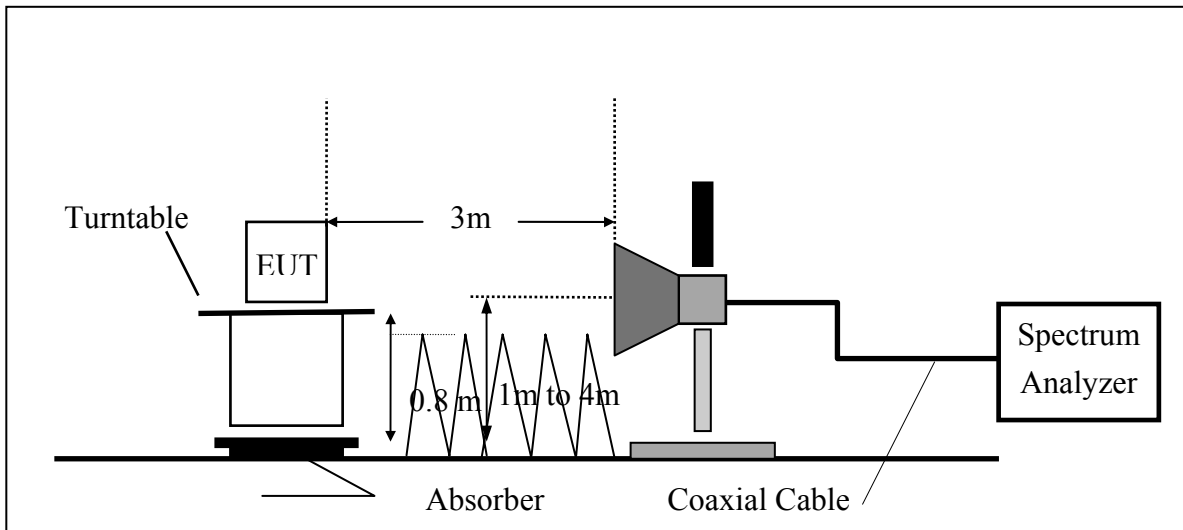
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12.4 Test SET-UP (Block Diagram of Configuration)

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



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



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12.5 Measurement Equipment Used:

966 Chamber					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EMI Test Receiver	R&S	ESC17	100759	05/20/2011	05/19/2013
Spectrum Analyzer	Agilent	E4446A	MY51100003	04/15/2013	04/14/2014
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	02/06/2013	02/07/2014
Spectrum Analyzer	R&S	FSV-30	101398	10/18/2011	10/17/2013
Bilog Antenna	SCHWAZBECK	VULB9168	378	01/10/2012	01/09/2014
Horn antenna	ETS.LINDGREN	3117	123995	05/19/2011	05/18/2013
Horn Antenna	Schwarzbeck	BBHA9170	185	07/11/2011	07/10/2013
RF amplifier	Miteq	AMF-6F-2600 400-40-8P	971576	01/29/2013	01/28/2014
Pre-Amplifier	Agilent	8447D	2944A07676	01/04/2013	01/03/2014
Pre-Amplifier	EMC Instruments Corp.	EMC0126530	980038	01/04/2013	01/03/2014
5150-5350 Band Reject Filter	Micro-Tronics	BRM50703	1	01/04/2013	01/03/2014
5470-5725 Band Reject Filter	Micro-Tronics	BRM50704	1	01/04/2013	01/03/2014
5725-5875 Band Reject Filter	Micro-Tronics	BRM50705	1	01/04/2013	01/03/2014
1GHz High Pass Filter	Micro-Tronics	HPM50108	32	02/28/2013	02/27/2014
2GHz High Pass Filter	Micro-Tronics	HPM50110	36	02/28/2013	02/27/2014
Attenuator	Mini-Circuit	BW-S10W2+	002	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	01/04/2013	01/03/2014
3m Site NSA	SGS	966 chamber	N/A	07/15/2012	07/14/2013

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12.6 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	

12.7 Measurement Result

Refer to attach tabular data sheets.

NOTE:

The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 100kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.

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Radiated Spurious Emission Measurement Result 802.11a, 5150~5250 MHz

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I.

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	42.23	-13.76	28.47	40.00	-11.53
157.07	S	Peak	27.66	-12.29	15.37	43.50	-28.13
343.31	S	Peak	27.57	-11.76	15.81	46.00	-30.19
559.62	S	Peak	27.94	-8.39	19.55	46.00	-26.45
719.67	S	Peak	27.41	-5.44	21.97	46.00	-24.03
898.15	S	Peak	27.53	-2.85	24.68	46.00	-21.32
10360.00	H	Peak	31.03	15.14	46.17	68.30	-22.13
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	30.77	-13.76	17.01	40.00	-22.99
144.46	S	Peak	26.72	-12.74	13.98	43.50	-29.52
422.85	S	Peak	26.59	-10.58	16.01	46.00	-29.99
643.04	S	Peak	27.16	-6.72	20.44	46.00	-25.56
766.23	S	Peak	27.74	-4.69	23.05	46.00	-22.95
929.19	S	Peak	26.49	-2.29	24.20	46.00	-21.80
10360.00	H	Peak	35.68	15.17	50.85	68.30	-17.45
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	42.16	-13.70	28.46	40.00	-11.54
157.07	S	Peak	28.31	-12.29	16.02	43.50	-27.48
343.31	S	Peak	27.62	-11.76	15.86	46.00	-30.14
543.13	S	Peak	27.96	-8.73	19.23	46.00	-26.77
735.19	S	Peak	27.95	-5.22	22.73	46.00	-23.27
943.74	S	Peak	26.53	-2.15	24.38	46.00	-21.62
10440.00	H	Peak	32.05	14.92	46.97	68.30	-21.33
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
44.55	S	Peak	31.81	-13.76	18.05	40.00	-21.95
163.86	S	Peak	26.57	-12.61	13.96	43.50	-29.54
381.14	S	Peak	25.77	-11.27	14.50	46.00	-31.50
556.71	S	Peak	28.97	-8.45	20.52	46.00	-25.48
721.61	S	Peak	28.54	-5.40	23.14	46.00	-22.86
933.07	S	Peak	27.05	-2.26	24.79	46.00	-21.21
10440.00	H	Peak	35.78	15.00	50.78	68.30	-17.52
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.41	-13.70	28.71	40.00	-11.29
157.07	S	Peak	28.47	-12.29	16.18	43.50	-27.32
343.31	S	Peak	28.17	-11.76	16.41	46.00	-29.59
505.30	S	Peak	27.52	-9.48	18.04	46.00	-27.96
703.18	S	Peak	27.16	-5.70	21.46	46.00	-24.54
953.44	S	Peak	26.91	-2.09	24.82	46.00	-21.18
10480.00	H	Peak	31.70	14.83	46.53	68.30	-21.77
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
44.55	S	Peak	29.79	-13.76	16.03	40.00	-23.97
152.22	S	Peak	26.76	-12.32	14.44	43.50	-29.06
316.15	S	Peak	26.87	-12.19	14.68	46.00	-31.32
515.00	S	Peak	28.25	-9.30	18.95	46.00	-27.05
734.22	S	Peak	26.65	-5.23	21.42	46.00	-24.58
899.12	S	Peak	26.77	-2.83	23.94	46.00	-22.06
10480.00	H	Peak	35.66	14.92	50.58	68.30	-17.72
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Band edge falling to restricted band

For measurement plot of radiation revealing the compliance of 15.209, please refer to Appendix I

Operation Band	:802.11a	Test Date	:2013-05-02
Fundamental Frequency	:5180MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5150.00	E	Average	34.37	7.47	41.84	54.00	-12.16
5150.00	E	Peak	47.43	7.47	54.90	74.00	-19.10

Operation Band	:802.11a	Test Date	:2013-05-02
Fundamental Frequency	:5180MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5150.00	E	Average	33.27	7.47	40.74	54.00	-13.26
5150.00	E	Peak	48.28	7.47	55.75	74.00	-18.25

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5150~5250 MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
43.58	S	Peak	42.65	-13.70	28.95	40.00	-11.05
157.07	S	Peak	28.95	-12.29	16.66	43.50	-26.84
343.31	S	Peak	29.16	-11.76	17.40	46.00	-28.60
462.62	S	Peak	28.44	-9.94	18.50	46.00	-27.50
685.72	S	Peak	27.76	-5.95	21.81	46.00	-24.19
940.83	S	Peak	26.92	-2.18	24.74	46.00	-21.26
10360.00	H	Peak	35.86	15.14	51.00	68.30	-17.30
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	31.52	-13.76	17.76	40.00	-22.24
152.22	S	Peak	26.89	-12.32	14.57	43.50	-28.93
287.05	S	Peak	27.52	-12.87	14.65	46.00	-31.35
484.93	S	Peak	27.09	-9.75	17.34	46.00	-28.66
670.20	S	Peak	27.67	-6.20	21.47	46.00	-24.53
904.94	S	Peak	26.91	-2.70	24.21	46.00	-21.79
10360.00	H	Peak	40.06	15.17	55.23	68.30	-13.07
15540.00	H	---					
20720.00	H	---					
25900.00	H	---					
31080.00	H	---					
36260.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	42.63	-13.70	28.93	40.00	-11.07
157.07	S	Peak	27.61	-12.29	15.32	43.50	-28.18
374.35	S	Peak	27.62	-11.36	16.26	46.00	-29.74
590.66	S	Peak	27.60	-7.75	19.85	46.00	-26.15
769.14	S	Peak	26.85	-4.63	22.22	46.00	-23.78
947.62	S	Peak	26.83	-2.12	24.71	46.00	-21.29
10440.00	H	Peak	35.37	14.92	50.29	68.30	-18.01
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	29.70	-13.70	16.00	40.00	-24.00
160.95	S	Peak	25.86	-12.36	13.50	43.50	-30.00
359.80	S	Peak	26.86	-11.54	15.32	46.00	-30.68
570.29	S	Peak	27.46	-8.19	19.27	46.00	-26.73
776.90	S	Peak	27.39	-4.52	22.87	46.00	-23.13
946.65	S	Peak	27.38	-2.12	25.26	46.00	-20.74
10440.00	H	Peak	40.04	15.00	55.04	68.30	-13.26
15660.00	H	---					
20880.00	H	---					
26100.00	H	---					
31320.00	H	---					
36540.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.24	-13.70	28.54	40.00	-11.46
157.07	S	Peak	27.81	-12.29	15.52	43.50	-27.98
305.48	S	Peak	27.38	-12.43	14.95	46.00	-31.05
494.63	S	Peak	27.98	-9.65	18.33	46.00	-27.67
731.31	S	Peak	27.64	-5.27	22.37	46.00	-23.63
951.50	S	Peak	26.96	-2.10	24.86	46.00	-21.14
10480.00	H	Peak	33.98	14.83	48.81	68.30	-19.49
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	29.93	-13.70	16.23	40.00	-23.77
135.73	S	Peak	27.73	-13.44	14.29	43.50	-29.21
330.70	S	Peak	26.92	-11.92	15.00	46.00	-31.00
516.94	S	Peak	27.02	-9.26	17.76	46.00	-28.24
681.84	S	Peak	27.72	-5.99	21.73	46.00	-24.27
908.82	S	Peak	26.68	-2.63	24.05	46.00	-21.95
10480.00	H	Peak	38.95	14.92	53.87	68.30	-14.43
15720.00	H	---					
20960.00	H	---					
26200.00	H	---					
31440.00	H	---					
36680.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-04-24
Fundamental Frequency	:5180MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5150.00	E	Average	30.18	7.37	37.55	54.00	-16.45
5150.00	E	Peak	42.91	7.37	50.28	74.00	-23.72

Operation Band	:802.11n20M	Test Date	:2013-04-24
Fundamental Frequency	:5180MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5150.00	E	Average	30.42	7.47	37.89	54.00	-16.11
5150.00	E	Peak	42.26	7.47	49.73	74.00	-24.27

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5150~5250 MHz

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBμV		dBμV/m	dBμV/m	
43.58	S	Peak	42.55	-13.70	28.85	40.00	-11.15
157.07	S	Peak	28.82	-12.29	16.53	43.50	-26.97
343.31	S	Peak	27.54	-11.76	15.78	46.00	-30.22
554.77	S	Peak	28.11	-8.50	19.61	46.00	-26.39
738.10	S	Peak	27.74	-5.15	22.59	46.00	-23.41
918.52	S	Peak	26.29	-2.44	23.85	46.00	-22.15
10380.00	H	Peak	36.43	15.15	51.58	68.30	-16.72
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	30.58	-13.76	16.82	40.00	-23.18
159.98	S	Peak	26.50	-12.26	14.24	43.50	-29.26
380.17	S	Peak	27.04	-11.28	15.76	46.00	-30.24
574.17	S	Peak	27.40	-8.11	19.29	46.00	-26.71
728.40	S	Peak	28.05	-5.31	22.74	46.00	-23.26
911.73	S	Peak	27.32	-2.58	24.74	46.00	-21.26
10380.00	H	Peak	38.69	15.20	53.89	68.30	-14.41
15570.00	H	---					
20760.00	H	---					
25950.00	H	---					
31140.00	H	---					
36330.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.60	-13.70	28.90	40.00	-11.10
157.07	S	Peak	28.58	-12.29	16.29	43.50	-27.21
343.31	S	Peak	28.67	-11.76	16.91	46.00	-29.09
514.03	S	Peak	27.60	-9.32	18.28	46.00	-27.72
755.56	S	Peak	26.94	-4.88	22.06	46.00	-23.94
953.44	S	Peak	27.34	-2.09	25.25	46.00	-20.75
10460.00	H	Peak	35.85	14.88	50.73	68.30	-17.57
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
44.55	S	Peak	30.36	-13.76	16.60	40.00	-23.40
156.10	S	Peak	26.19	-12.30	13.89	43.50	-29.61
339.43	S	Peak	26.72	-11.82	14.90	46.00	-31.10
526.64	S	Peak	27.43	-9.05	18.38	46.00	-27.62
655.65	S	Peak	27.79	-6.47	21.32	46.00	-24.68
864.20	S	Peak	26.65	-3.47	23.18	46.00	-22.82
10460.00	H	Peak	38.45	14.96	53.41	68.30	-14.89
15690.00	H	---					
20920.00	H	---					
26150.00	H	---					
31380.00	H	---					
36610.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-04-24
Fundamental Frequency	:5190MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5150.00	E	Average	33.54	7.37	40.91	54.00	-13.09
5150.00	E	Peak	47.45	7.37	54.82	74.00	-19.18

Operation Band	:802.11n40M	Test Date	:2013-04-24
Fundamental Frequency	:5190MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5150.00	E	Average	34.70	7.47	42.17	54.00	-11.83
5150.00	E	Peak	48.96	7.47	56.43	74.00	-17.57

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Radiated Spurious Emission Measurement Result 802.11a, 5250MHz-5350MHz

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBµV		dBµV/m	dBµV/m	
44.55	S	Peak	42.33	-13.76	28.57	40.00	-11.43
157.07	S	Peak	28.12	-12.29	15.83	43.50	-27.67
343.31	S	Peak	27.51	-11.76	15.75	46.00	-30.25
515.00	S	Peak	28.06	-9.30	18.76	46.00	-27.24
743.92	S	Peak	27.01	-5.07	21.94	46.00	-24.06
932.10	S	Peak	26.39	-2.27	24.12	46.00	-21.88
10520.00	H	Peak	30.29	14.69	44.98	68.30	-23.32
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	30.31	-13.70	16.61	40.00	-23.39
159.01	S	Peak	27.10	-12.28	14.82	43.50	-28.68
286.08	S	Peak	26.97	-12.89	14.08	46.00	-31.92
470.38	S	Peak	27.43	-9.90	17.53	46.00	-28.47
692.51	S	Peak	27.23	-5.85	21.38	46.00	-24.62
909.79	S	Peak	27.32	-2.62	24.70	46.00	-21.30
10520.00	H	Peak	35.96	14.78	50.74	68.30	-17.56
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
44.55	S	Peak	42.49	-13.76	28.73	40.00	-11.27
158.04	S	Peak	27.70	-12.30	15.40	43.50	-28.10
343.31	S	Peak	29.11	-11.76	17.35	46.00	-28.65
518.88	S	Peak	28.25	-9.24	19.01	46.00	-26.99
700.27	S	Peak	27.78	-5.75	22.03	46.00	-23.97
908.82	S	Peak	27.17	-2.63	24.54	46.00	-21.46
10600.00	H	Average	30.41	15.33	45.74	54.00	-8.26
10600.00	H	Peak	31.45	15.33	46.78	74.00	-27.22
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	29.79	-13.70	16.09	40.00	-23.91
143.49	S	Peak	27.16	-12.82	14.34	43.50	-29.16
371.44	S	Peak	26.47	-11.41	15.06	46.00	-30.94
543.13	S	Peak	27.73	-8.73	19.00	46.00	-27.00
721.61	S	Peak	27.21	-5.40	21.81	46.00	-24.19
885.54	S	Peak	26.54	-3.09	23.45	46.00	-22.55
10600.00	H	Average	33.56	15.35	48.91	54.00	-5.09
10600.00	H	Peak	35.07	15.35	50.42	74.00	-23.58
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.36	-13.70	28.66	40.00	-11.34
157.07	S	Peak	28.20	-12.29	15.91	43.50	-27.59
343.31	S	Peak	28.10	-11.76	16.34	46.00	-29.66
515.97	S	Peak	28.18	-9.28	18.90	46.00	-27.10
677.96	S	Peak	27.86	-6.06	21.80	46.00	-24.20
869.05	S	Peak	26.99	-3.40	23.59	46.00	-22.41
10640.00	H	Average	30.78	15.72	46.50	54.00	-7.50
10640.00	H	Peak	31.72	15.72	47.44	74.00	-26.56
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
41.64	S	Peak	30.30	-13.56	16.74	40.00	-23.26
168.71	S	Peak	27.33	-13.01	14.32	43.50	-29.18
304.51	S	Peak	26.62	-12.45	14.17	46.00	-31.83
455.83	S	Peak	27.55	-9.99	17.56	46.00	-28.44
634.31	S	Peak	27.25	-6.87	20.38	46.00	-25.62
816.67	S	Peak	27.76	-4.02	23.74	46.00	-22.26
10640.00	H	Average	33.35	15.71	49.06	54.00	-4.94
10640.00	H	Peak	34.61	15.71	50.32	74.00	-23.68
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11a	Test Date	:2013-05-02
Fundamental Frequency	:5320MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5350.00	E	Average	31.36	8.02	39.38	54.00	-14.62
5350.00	E	Peak	45.16	8.02	53.18	74.00	-20.82

Operation Band	:802.11a	Test Date	:2013-05-02
Fundamental Frequency	:5320MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5350.00	E	Average	31.25	8.32	39.57	54.00	-14.43
5350.00	E	Peak	44.81	8.32	53.13	74.00	-20.87

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5250~5350 MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	42.15	-13.70	28.45	40.00	-11.55
157.07	S	Peak	28.00	-12.29	15.71	43.50	-27.79
286.08	S	Peak	27.47	-12.89	14.58	46.00	-31.42
449.04	S	Peak	27.67	-10.04	17.63	46.00	-28.37
628.49	S	Peak	27.23	-6.96	20.27	46.00	-25.73
867.11	S	Peak	27.49	-3.43	24.06	46.00	-21.94
10520.00	H	Peak	36.00	14.69	50.69	68.30	-17.61
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	30.43	-13.76	16.67	40.00	-23.33
159.01	S	Peak	26.40	-12.28	14.12	43.50	-29.38
286.08	S	Peak	27.42	-12.89	14.53	46.00	-31.47
512.09	S	Peak	28.09	-9.36	18.73	46.00	-27.27
720.64	S	Peak	27.12	-5.43	21.69	46.00	-24.31
921.43	S	Peak	26.29	-2.39	23.90	46.00	-22.10
10520.00	H	Peak	38.85	14.78	53.63	68.30	-14.67
15780.00	H	---					
21040.00	H	---					
26300.00	H	---					
31560.00	H	---					
36820.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	42.79	-13.70	29.09	40.00	-10.91
157.07	S	Peak	28.33	-12.29	16.04	43.50	-27.46
343.31	S	Peak	28.18	-11.76	16.42	46.00	-29.58
557.68	S	Peak	27.24	-8.42	18.82	46.00	-27.18
734.22	S	Peak	27.39	-5.23	22.16	46.00	-23.84
949.56	S	Peak	27.55	-2.10	25.45	46.00	-20.55
10600.00	H	Average	27.45	15.33	42.78	54.00	-11.22
10600.00	H	Peak	35.08	15.33	50.41	74.00	-23.59
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
44.55	S	Peak	30.19	-13.76	16.43	40.00	-23.57
149.31	S	Peak	26.65	-12.38	14.27	43.50	-29.23
381.14	S	Peak	26.47	-11.27	15.20	46.00	-30.80
573.20	S	Peak	27.60	-8.13	19.47	46.00	-26.53
757.50	S	Peak	27.73	-4.85	22.88	46.00	-23.12
961.20	S	Peak	27.04	-2.06	24.98	54.00	-29.02
10600.00	H	Average	32.08	15.35	47.43	54.00	-6.57
10600.00	H	Peak	39.14	15.35	54.49	74.00	-19.51
15900.00	H	---					
21200.00	H	---					
26500.00	H	---					
31800.00	H	---					
37100.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.30	-13.70	28.60	40.00	-11.40
114.39	S	Peak	30.57	-15.22	15.35	43.50	-28.15
343.31	S	Peak	27.85	-11.76	16.09	46.00	-29.91
532.46	S	Peak	28.33	-8.95	19.38	46.00	-26.62
742.95	S	Peak	27.27	-5.08	22.19	46.00	-23.81
911.73	S	Peak	27.21	-2.58	24.63	46.00	-21.37
10640.00	H	Average	27.15	15.72	42.87	54.00	-11.13
10640.00	H	Peak	36.45	15.72	52.17	74.00	-21.83
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	30.61	-13.70	16.91	40.00	-23.09
162.89	S	Peak	26.94	-12.52	14.42	43.50	-29.08
378.23	S	Peak	26.31	-11.31	15.00	46.00	-31.00
523.73	S	Peak	27.98	-9.12	18.86	46.00	-27.14
683.78	S	Peak	27.77	-5.96	21.81	46.00	-24.19
854.50	S	Peak	27.42	-3.62	23.80	46.00	-22.20
10640.00	H	Average	32.52	15.71	48.23	54.00	-5.77
10640.00	H	Peak	38.05	15.71	53.76	74.00	-20.24
15960.00	H	---					
21280.00	H	---					
26600.00	H	---					
31920.00	H	---					
37240.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-04-24
Fundamental Frequency	:5320MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5350.00	E	Average	30.85	8.02	38.87	54.00	-15.13
5350.00	E	Peak	45.12	8.02	53.14	74.00	-20.86

Operation Band	:802.11n20M	Test Date	:2013-04-24
Fundamental Frequency	:5320MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5350.00	E	Average	30.85	8.32	39.17	54.00	-14.83
5350.00	E	Peak	44.65	8.32	52.97	74.00	-21.03

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5250~5350 MHz

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level	dB	FS	@3m	dB
		PK/QP/AV	dBµV		dBµV/m	dBµV/m	
43.58	S	Peak	42.43	-13.70	28.73	40.00	-11.27
157.07	S	Peak	27.83	-12.29	15.54	43.50	-27.96
343.31	S	Peak	28.83	-11.76	17.07	46.00	-28.93
557.68	S	Peak	27.00	-8.42	18.58	46.00	-27.42
750.71	S	Peak	27.10	-4.95	22.15	46.00	-23.85
941.80	S	Peak	26.63	-2.18	24.45	46.00	-21.55
10540.00	H	Peak	37.36	14.83	52.19	68.30	-16.11
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	30.26	-13.76	16.50	40.00	-23.50
155.13	S	Peak	27.27	-12.30	14.97	43.50	-28.53
286.08	S	Peak	27.02	-12.89	14.13	46.00	-31.87
417.03	S	Peak	27.61	-10.70	16.91	46.00	-29.09
596.48	S	Peak	27.82	-7.64	20.18	46.00	-25.82
818.61	S	Peak	28.00	-3.98	24.02	46.00	-21.98
10540.00	H	Peak	38.93	14.90	53.83	68.30	-14.47
15810.00	H	---					
21080.00	H	---					
26350.00	H	---					
31620.00	H	---					
36890.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.51	-13.70	28.81	40.00	-11.19
157.07	S	Peak	28.93	-12.29	16.64	43.50	-26.86
343.31	S	Peak	28.41	-11.76	16.65	46.00	-29.35
551.86	S	Peak	28.51	-8.55	19.96	46.00	-26.04
676.99	S	Peak	27.96	-6.09	21.87	46.00	-24.13
892.33	S	Peak	27.41	-2.97	24.44	46.00	-21.56
10620.00	H	Average	26.83	15.50	42.33	54.00	-11.67
10620.00	H	Peak	35.50	15.50	51.00	74.00	-23.00
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
44.55	S	Peak	32.11	-13.76	18.35	40.00	-21.65
191.99	S	Peak	34.19	-15.76	18.43	43.50	-25.07
370.47	S	Peak	27.17	-11.42	15.75	46.00	-30.25
509.18	S	Peak	28.05	-9.41	18.64	46.00	-27.36
667.29	S	Peak	28.12	-6.25	21.87	46.00	-24.13
829.28	S	Peak	30.03	-3.89	26.14	46.00	-19.86
10620.00	H	Average	32.86	15.51	48.37	54.00	-5.63
10620.00	H	Peak	39.65	15.51	55.16	74.00	-18.84
15930.00	H	---					
21240.00	H	---					
26550.00	H	---					
31860.00	H	---					
37170.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-04-24
Fundamental Frequency	:5310MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5350.00	E	Average	43.96	8.02	51.98	54.00	-2.02
5350.00	E	Peak	56.72	8.02	64.74	74.00	-9.26

Operation Band	:802.11n40M	Test Date	:2013-04-24
Fundamental Frequency	:5310MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5350.00	E	Average	43.19	8.32	51.51	54.00	-2.49
5350.00	E	Peak	57.23	8.32	65.55	74.00	-8.45

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Radiated Spurious Emission Measurement Result 802.11a, 5470~5725 MHz

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	42.43	-13.70	28.73	40.00	-11.27
158.04	S	Peak	29.02	-12.30	16.72	43.50	-26.78
343.31	S	Peak	27.24	-11.76	15.48	46.00	-30.52
487.84	S	Peak	27.64	-9.73	17.91	46.00	-28.09
612.00	S	Peak	27.81	-7.30	20.51	46.00	-25.49
827.34	S	Peak	27.71	-3.90	23.81	46.00	-22.19
11000.00	H	Average	27.86	16.54	44.40	54.00	-9.60
11000.00	H	Peak	28.92	16.54	45.46	74.00	-28.54
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	30.20	-13.70	16.50	40.00	-23.50
156.10	S	Peak	26.84	-12.30	14.54	43.50	-28.96
373.38	S	Peak	28.34	-11.37	16.97	46.00	-29.03
598.42	S	Peak	26.91	-7.59	19.32	46.00	-26.68
746.83	S	Peak	27.85	-5.02	22.83	46.00	-23.17
941.80	S	Peak	27.11	-2.18	24.93	46.00	-21.07
11000.00	H	Average	30.90	16.44	47.34	54.00	-6.66
11000.00	H	Peak	31.56	16.44	48.00	74.00	-26.00
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
46.49	S	Peak	40.82	-13.80	27.02	40.00	-12.98
176.47	S	Peak	27.59	-14.03	13.56	43.50	-29.94
419.94	S	Peak	27.37	-10.65	16.72	46.00	-29.28
601.33	S	Peak	28.25	-7.52	20.73	46.00	-25.27
766.23	S	Peak	27.30	-4.69	22.61	46.00	-23.39
923.37	S	Peak	26.45	-2.36	24.09	46.00	-21.91
11160.00	H	Average	28.44	16.93	45.37	54.00	-8.63
11160.00	H	Peak	29.85	16.93	46.78	74.00	-27.22
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
44.55	S	Peak	30.90	-13.76	17.14	40.00	-22.86
160.95	S	Peak	26.27	-12.36	13.91	43.50	-29.59
376.29	S	Peak	26.36	-11.34	15.02	46.00	-30.98
572.23	S	Peak	26.94	-8.15	18.79	46.00	-27.21
766.23	S	Peak	27.19	-4.69	22.50	46.00	-23.50
935.98	S	Peak	26.77	-2.23	24.54	46.00	-21.46
11160.00	H	Average	29.03	16.70	45.73	54.00	-8.27
11160.00	H	Peak	30.14	16.70	46.84	74.00	-27.16
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
44.55	S	Peak	41.81	-13.76	28.05	40.00	-11.95
157.07	S	Peak	28.52	-12.29	16.23	43.50	-27.27
343.31	S	Peak	28.97	-11.76	17.21	46.00	-28.79
481.05	S	Peak	28.14	-9.80	18.34	46.00	-27.66
675.05	S	Peak	27.10	-6.11	20.99	46.00	-25.01
942.77	S	Peak	27.11	-2.16	24.95	46.00	-21.05
11400.00	H	Average	28.33	17.30	45.63	54.00	-8.37
11400.00	H	Peak	29.23	17.30	46.53	74.00	-27.47
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	30.41	-13.70	16.71	40.00	-23.29
162.89	S	Peak	26.53	-12.52	14.01	43.50	-29.49
325.85	S	Peak	26.20	-11.98	14.22	46.00	-31.78
541.19	S	Peak	27.34	-8.76	18.58	46.00	-27.42
718.70	S	Peak	27.55	-5.45	22.10	46.00	-23.90
953.44	S	Peak	27.10	-2.09	25.01	46.00	-20.99
11400.00	H	Average	28.48	17.06	45.54	54.00	-8.46
11400.00	H	Peak	29.27	17.06	46.33	74.00	-27.67
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11a	Test Date	:2013-05-03
Fundamental Frequency	:5500MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5460.00	E	Average	30.83	7.77	38.60	54.00	-15.40
5460.00	E	Peak	44.03	7.77	51.80	74.00	-22.20

Operation Band	:802.11a	Test Date	:2013-05-03
Fundamental Frequency	:5500MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5460.00	E	Average	30.75	8.07	38.82	54.00	-15.18
5460.00	E	Peak	43.87	8.07	51.94	74.00	-22.06

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Operation Band	:802.11 a	Test Date	:2013-05-07
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5470.00	E	Peak	52.61	7.78	60.39	68.30	-7.91

Operation Band	:802.11 a	Test Date	:2013-05-07
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5470.00	E	Peak	52.87	8.08	60.95	68.30	-7.35

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Operation Band	:802.11 a	Test Date	:2013-05-07
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5725.00	E	Peak	57.83	8.38	66.21	68.30	-2.09

Operation Band	:802.11 a	Test Date	:2013-05-07
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5725.00	E	Peak	57.22	8.68	65.90	68.30	-2.40

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Radiated Spurious Emission Measurement Result 802.11n HT20, 5470~5725 MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	42.78	-13.70	29.08	40.00	-10.92
157.07	S	Peak	28.55	-12.29	16.26	43.50	-27.24
343.31	S	Peak	27.93	-11.76	16.17	46.00	-29.83
528.58	S	Peak	27.38	-9.02	18.36	46.00	-27.64
697.36	S	Peak	27.86	-5.78	22.08	46.00	-23.92
913.67	S	Peak	26.66	-2.56	24.10	46.00	-21.90
11000.00	H	Average	27.58	16.54	44.12	54.00	-9.88
11000.00	H	Peak	37.15	16.54	53.69	74.00	-20.31
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	29.92	-13.70	16.22	40.00	-23.78
157.07	S	Peak	26.75	-12.29	14.46	43.50	-29.04
362.71	S	Peak	25.90	-11.51	14.39	46.00	-31.61
567.38	S	Peak	27.27	-8.24	19.03	46.00	-26.97
800.18	S	Peak	26.55	-4.19	22.36	46.00	-23.64
944.71	S	Peak	26.63	-2.14	24.49	46.00	-21.51
11000.00	H	Average	29.65	16.44	46.09	54.00	-7.91
11000.00	H	Peak	37.71	16.44	54.15	74.00	-19.85
16500.00	H	---					
22000.00	H	---					
27500.00	H	---					
33000.00	H	---					
38500.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	42.36	-13.70	28.66	40.00	-11.34
157.07	S	Peak	27.41	-12.29	15.12	43.50	-28.38
307.42	S	Peak	26.18	-12.40	13.78	46.00	-32.22
467.47	S	Peak	27.39	-9.91	17.48	46.00	-28.52
644.01	S	Peak	27.14	-6.70	20.44	46.00	-25.56
867.11	S	Peak	26.81	-3.43	23.38	46.00	-22.62
11160.00	H	Average	24.09	16.93	41.02	54.00	-12.98
11160.00	H	Peak	35.79	16.93	52.72	74.00	-21.28
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	30.75	-13.70	17.05	40.00	-22.95
155.13	S	Peak	27.32	-12.30	15.02	43.50	-28.48
369.50	S	Peak	26.24	-11.44	14.80	46.00	-31.20
563.50	S	Peak	27.52	-8.31	19.21	46.00	-26.79
749.74	S	Peak	27.29	-4.96	22.33	46.00	-23.67
949.56	S	Peak	27.18	-2.10	25.08	46.00	-20.92
11160.00	H	Average	29.63	16.70	46.33	54.00	-7.67
11160.00	H	Peak	37.45	16.70	54.15	74.00	-19.85
16740.00	H	---					
22320.00	H	---					
27900.00	H	---					
33480.00	H	---					
39060.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.17	-13.70	28.47	40.00	-11.53
157.07	S	Peak	27.38	-12.29	15.09	43.50	-28.41
343.31	S	Peak	27.58	-11.76	15.82	46.00	-30.18
525.67	S	Peak	27.33	-9.09	18.24	46.00	-27.76
687.66	S	Peak	27.51	-5.91	21.60	46.00	-24.40
911.73	S	Peak	27.21	-2.58	24.63	46.00	-21.37
11400.00	H	Average	25.08	17.30	42.38	54.00	-11.62
11400.00	H	Peak	35.96	17.30	53.26	74.00	-20.74
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
44.55	S	Peak	30.36	-13.76	16.60	40.00	-23.40
145.43	S	Peak	27.30	-12.68	14.62	43.50	-28.88
339.43	S	Peak	27.36	-11.82	15.54	46.00	-30.46
487.84	S	Peak	27.32	-9.73	17.59	46.00	-28.41
708.03	S	Peak	27.34	-5.61	21.73	46.00	-24.27
918.52	S	Peak	26.62	-2.44	24.18	46.00	-21.82
11400.00	H	Average	28.28	17.06	45.34	54.00	-8.66
11400.00	H	Peak	37.39	17.06	54.45	74.00	-19.55
17100.00	H	---					
22800.00	H	---					
28500.00	H	---					
34200.00	H	---					
39900.00	H	---					

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Operation Band :802.11n20M Test Date :2013-05-03
Fundamental Frequency :5500MHz Temp./Humi. :24deg_C/52RH
Operation Mode :Band edge LOW Engineer :Louis
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.

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

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
5460.00	E	Average	33.66	7.77	41.43	54.00	-12.57
5460.00	E	Peak	49.49	7.77	57.26	74.00	-16.74

Operation Band :802.11n20M Test Date :2013-05-03
Fundamental Frequency :5500MHz Temp./Humi. :24deg_C/52RH
Operation Mode :Band edge LOW Engineer :Louis
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.

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

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
5460.00	E	Average	33.27	8.07	41.34	54.00	-12.66
5460.00	E	Peak	50.07	8.07	58.14	74.00	-15.86

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Operation Band	:802.11 n20M	Test Date	:2013-05-07
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5470.00	E	Peak	54.63	7.78	62.41	68.30	-5.89

Operation Band	:802.11 n20M	Test Date	:2013-05-07
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5470.00	E	Peak	52.83	8.08	60.91	68.30	-7.39

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Operation Band	:802.11 n20M	Test Date	:2013-05-07
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5725.00	E	Peak	58.82	8.38	67.20	68.30	-1.10

Operation Band	:802.11 n20M	Test Date	:2013-05-07
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5725.00	E	Peak	58.72	8.68	67.40	68.30	-0.90

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Radiated Spurious Emission Measurement Result 802.11n HT40, 5470~5725 MHz

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
43.58	S	Peak	42.87	-13.70	29.17	40.00	-10.83
157.07	S	Peak	29.72	-12.29	17.43	43.50	-26.07
343.31	S	Peak	29.42	-11.76	17.66	46.00	-28.34
544.10	S	Peak	27.66	-8.70	18.96	46.00	-27.04
685.72	S	Peak	28.38	-5.95	22.43	46.00	-23.57
862.26	S	Peak	28.37	-3.49	24.88	46.00	-21.12
11020.00	H	Average	27.88	16.58	44.46	54.00	-9.54
11020.00	H	Peak	36.90	16.58	53.48	74.00	-20.52
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
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
44.55	S	Peak	31.65	-13.76	17.89	40.00	-22.11
156.10	S	Peak	27.02	-12.30	14.72	43.50	-28.78
374.35	S	Peak	26.68	-11.36	15.32	46.00	-30.68
575.14	S	Peak	28.02	-8.09	19.93	46.00	-26.07
724.52	S	Peak	27.82	-5.37	22.45	46.00	-23.55
920.46	S	Peak	27.34	-2.42	24.92	46.00	-21.08
11020.00	H	Average	30.66	16.46	47.12	54.00	-6.88
11020.00	H	Peak	37.77	16.46	54.23	74.00	-19.77
16530.00	H	---					
22040.00	H	---					
27550.00	H	---					
33060.00	H	---					
38570.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
47.46	S	Peak	43.05	-13.85	29.20	40.00	-10.80
157.07	S	Peak	29.78	-12.29	17.49	43.50	-26.01
343.31	S	Peak	28.81	-11.76	17.05	46.00	-28.95
515.00	S	Peak	27.83	-9.30	18.53	46.00	-27.47
730.34	S	Peak	27.54	-5.29	22.25	46.00	-23.75
908.82	S	Peak	27.00	-2.63	24.37	46.00	-21.63
11100.00	H	Average	25.07	16.99	42.06	54.00	-11.94
11100.00	H	Peak	35.89	16.99	52.88	74.00	-21.12
16650.00	H	---					
22200.00	H	---					
27750.00	H	---					
33300.00	H	---					
38850.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
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
43.58	S	Peak	31.38	-13.70	17.68	40.00	-22.32
145.43	S	Peak	26.86	-12.68	14.18	43.50	-29.32
347.19	S	Peak	27.11	-11.72	15.39	46.00	-30.61
644.98	S	Peak	27.31	-6.68	20.63	46.00	-25.37
746.83	S	Peak	33.97	-5.02	28.95	46.00	-17.05
861.29	S	Peak	27.86	-3.50	24.36	46.00	-21.64
11100.00	H	Average	29.75	16.75	46.50	54.00	-7.50
11100.00	H	Peak	37.81	16.75	54.56	74.00	-19.44
16650.00	H	---					
22200.00	H	---					
27750.00	H	---					
33300.00	H	---					
38850.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
43.58	S	Peak	42.66	-13.70	28.96	40.00	-11.04
157.07	S	Peak	28.19	-12.29	15.90	43.50	-27.60
343.31	S	Peak	28.29	-11.76	16.53	46.00	-29.47
496.57	S	Peak	28.74	-9.62	19.12	46.00	-26.88
700.27	S	Peak	27.30	-5.75	21.55	46.00	-24.45
910.76	S	Peak	28.27	-2.61	25.66	46.00	-20.34
11340.00	H	Average	23.87	17.24	41.11	54.00	-12.89
11340.00	H	Peak	35.36	17.24	52.60	74.00	-21.40
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
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
44.55	S	Peak	31.69	-13.76	17.93	40.00	-22.07
159.98	S	Peak	26.97	-12.26	14.71	43.50	-28.79
344.28	S	Peak	26.53	-11.76	14.77	46.00	-31.23
546.04	S	Peak	30.80	-8.65	22.15	46.00	-23.85
680.87	S	Peak	27.78	-6.02	21.76	46.00	-24.24
904.94	S	Peak	26.37	-2.70	23.67	46.00	-22.33
11340.00	H	Average	29.49	16.98	46.47	54.00	-7.53
11340.00	H	Peak	37.52	16.98	54.50	74.00	-19.50
17010.00	H	---					
22680.00	H	---					
28350.00	H	---					
34020.00	H	---					
39690.00	H	---					

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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5460.00	E	Average	31.44	7.77	39.21	54.00	-14.79
5460.00	E	Peak	44.51	7.77	52.28	74.00	-21.72

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5460.00	E	Average	31.36	8.07	39.43	54.00	-14.57
5460.00	E	Peak	45.52	8.07	53.59	74.00	-20.41

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Operation Band	:802.11 n40M	Test Date	:2013-05-07
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5470.00	E	Peak	58.62	7.78	66.40	68.30	-1.90

Operation Band	:802.11 n40M	Test Date	:2013-05-07
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
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.

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

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
5470.00	E	Peak	59.31	8.08	67.39	68.30	-0.91

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Operation Band	:802.11 n40M	Test Date	:2013-05-07
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5725.00	E	Peak	46.38	8.38	54.76	68.30	-13.54

Operation Band	:802.11 n40M	Test Date	:2013-05-07
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
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.

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

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
5725.00	E	Peak	46.21	8.68	54.89	68.30	-13.41

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13. TRANSMISSION IN THE ABSENCE OF DATA

13.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

According to RSS-210 A9.4(4)

The device shall automatically discontinue transmission in case of absence of information to transmit, or operational failure. A description on how this is done shall accompany the application for equipment certification. Note that this is not intended to prohibit transmission of control or signaling information or the use of repetitive codes where required by the technology.

13.2 Result:

No non-compliance noted:

Refer to the theory of operation.

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14. FREQUENCY STABILITY

14.1 Standard Applicable

According to §15.407 (g) Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

14.2 Result:

Refer to next page for plots.

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Operation Mode	802.11 a	Test Date	2013,4,15
Temperature	:25	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25	3.7V	36	5180.0000	5,179.950080	0.0499
		44	5220.0000	5,219.950180	0.0498
		48	5240.0000	5,239.949280	0.0507
		52	5260.0000	5,259.949810	0.0502
		60	5300.0000	5,299.948910	0.0511
		64	5320.0000	5,319.948170	0.0518
		100	5500.0000	5,499.946730	0.0533
		116	5580.0000	5,579.945440	0.0546
		140	5700.0000	5,699.944540	0.0555
60	3.4V	36	5180.0000	5,179.950180	0.0498
		44	5220.0000	5,219.950280	0.0497
		48	5240.0000	5,239.949380	0.0506
		52	5260.0000	5,259.949910	0.0501
		60	5300.0000	5,299.949010	0.0510
		64	5320.0000	5,319.948270	0.0517
		100	5500.0000	5,499.946730	0.0533
		116	5580.0000	5,579.945540	0.0545
		140	5700.0000	5,699.944640	0.0554
60	4.2V	36	5180.0000	5,179.950150	0.0499
		44	5220.0000	5,219.950260	0.0497
		48	5240.0000	5,239.949370	0.0506
		52	5260.0000	5,259.949980	0.0500
		60	5300.0000	5,299.949010	0.0510
		64	5320.0000	5,319.948330	0.0517
		100	5500.0000	5,499.946450	0.0535
		116	5580.0000	5,579.945940	0.0541
		140	5700.0000	5,699.944440	0.0556

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-20	3.4V	36	5180.0000	5,179.950870	0.0491
		44	5220.0000	5,219.950330	0.0497
		48	5240.0000	5,239.949440	0.0506
		52	5260.0000	5,259.949350	0.0507
		60	5300.0000	5,299.949210	0.0508
		64	5320.0000	5,319.948570	0.0514
		100	5500.0000	5,499.946680	0.0533
		116	5580.0000	5,579.945940	0.0541
		140	5700.0000	5,699.944780	0.0552
-20	4.2V	36	5180.0000	5,179.950350	0.0496
		44	5220.0000	5,219.950460	0.0495
		48	5240.0000	5,239.949840	0.0502
		52	5260.0000	5,259.949220	0.0508
		60	5300.0000	5,299.949110	0.0509
		64	5320.0000	5,319.948460	0.0515
		100	5500.0000	5,499.946750	0.0532
		116	5580.0000	5,579.945990	0.0540
		140	5700.0000	5,699.944650	0.0553

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Operation Mode	802.11n_HT20	Test Date	2013,4,15
Temperature	:25	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25	3.7V	36	5180.0000	5,179.949730	0.0503
		44	5220.0000	5,219.949840	0.0502
		48	5240.0000	5,239.949990	0.0500
		52	5260.0000	5,259.949100	0.0509
		60	5300.0000	5,299.949320	0.0507
		64	5320.0000	5,319.948280	0.0517
		100	5500.0000	5,499.946530	0.0535
		116	5580.0000	5,579.945460	0.0545
		140	5700.0000	5,699.944470	0.0555
60	3.4V	36	5180.0000	5,179.949770	0.0502
		44	5220.0000	5,219.949880	0.0501
		48	5240.0000	5,239.949790	0.0502
		52	5260.0000	5,259.949190	0.0508
		60	5300.0000	5,299.949540	0.0505
		64	5320.0000	5,319.948460	0.0515
		100	5500.0000	5,499.946670	0.0533
		116	5580.0000	5,579.945780	0.0542
		140	5700.0000	5,699.944650	0.0553
60	4.2V	36	5180.0000	5,179.949740	0.0503
		44	5220.0000	5,219.949540	0.0505
		48	5240.0000	5,239.949780	0.0502
		52	5260.0000	5,259.949140	0.0509
		60	5300.0000	5,299.949670	0.0503
		64	5320.0000	5,319.948780	0.0512
		100	5500.0000	5,499.946990	0.0530
		116	5580.0000	5,579.945440	0.0546
		140	5700.0000	5,699.944340	0.0557

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-20	3.4V	36	5180.0000	5,179.949780	0.0502
		44	5220.0000	5,219.949120	0.0509
		48	5240.0000	5,239.949170	0.0508
		52	5260.0000	5,259.949450	0.0505
		60	5300.0000	5,299.949490	0.0505
		64	5320.0000	5,319.948570	0.0514
		100	5500.0000	5,499.946690	0.0533
		116	5580.0000	5,579.945840	0.0542
		140	5700.0000	5,699.944160	0.0558
-20	4.2V	36	5180.0000	5,179.949340	0.0507
		44	5220.0000	5,219.949520	0.0505
		48	5240.0000	5,239.949740	0.0503
		52	5260.0000	5,259.949190	0.0508
		60	5300.0000	5,299.949220	0.0508
		64	5320.0000	5,319.948660	0.0513
		100	5500.0000	5,499.946710	0.0533
		116	5580.0000	5,579.945700	0.0543
		140	5700.0000	5,699.944600	0.0554

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Operation Mode	802.11 n_HT40	Test Date	2013,4,15
Temperature	:25	Test By	Cooper
Humidity	:62 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
25	3.7V	38	5190.0000	5,189.949600	0.0504
		46	5230.0000	5,229.948900	0.0511
		54	5270.0000	5,269.948500	0.0515
		62	5310.0000	5,309.948050	0.0520
		102	5510.0000	5,509.946130	0.0539
		110	5550.0000	5,549.945280	0.0547
		134	5670.0000	5,669.944450	0.0556
60	3.4V	38	5190.0000	5,189.950600	0.0494
		46	5230.0000	5,229.949900	0.0501
		54	5270.0000	5,269.949500	0.0505
		62	5310.0000	5,309.948150	0.0518
		102	5510.0000	5,509.946230	0.0538
		110	5550.0000	5,549.945380	0.0546
		134	5670.0000	5,669.944550	0.0554
60	4.2V	38	5190.0000	5,189.950100	0.0499
		46	5230.0000	5,229.949400	0.0506
		54	5270.0000	5,269.949000	0.0510
		62	5310.0000	5,309.948100	0.0519
		102	5510.0000	5,509.946180	0.0538
		110	5550.0000	5,549.945330	0.0547
		134	5670.0000	5,669.944480	0.0555

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-20	3.4V	38	5190.0000	5,189.949100	0.0509
		46	5230.0000	5,229.948400	0.0516
		54	5270.0000	5,269.948000	0.0520
		62	5310.0000	5,309.948000	0.0520
		102	5510.0000	5,509.946080	0.0539
		118	5590.0000	5,549.945200	0.0548
		134	5670.0000	5,669.944400	0.0556
-20	4.2V	38	5190.0000	5,189.948600	0.0514
		46	5230.0000	5,229.947900	0.0521
		54	5270.0000	5,269.947500	0.0525
		62	5310.0000	5,309.947950	0.0521
		102	5510.0000	5,509.946030	0.0540
		110	5550.0000	5,549.945180	0.0548
		134	5670.0000	5,669.944350	0.0557

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15. ANTENNA REQUIREMENT

15.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

According to RSS-GEN 7.1.2, a transmitter can only be sold or operated with antennas with which it was certified. A transmitter may be certified with multiple antenna types. An antenna type comprises antennas having similar in-band and out-of-band radiation patterns. Testing shall be performed using the highest-gain antenna of each combination of transmitter and antenna type for which certification is being sought, with the transmitter output power set at the maximum level. Any antenna of the same type and having equal or lesser gain as an antenna that had been successfully tested for certification with the transmitter, will also be considered certified with the transmitter, and may be used and marketed with the transmitter. The manufacturer shall include with the application for certification a list of acceptable antenna types to be used with the transmitter.

15.2 Antenna Connected Construction

The directional gains of antenna used for transmitting is -0.74dBi (5150MHz– 5250MHz), 1.01dBi (5250MHz– 5350MHz), 2.70dBi (5470MHz– 5725MHz) and the antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec.for details.

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APPENDIX 1

MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION

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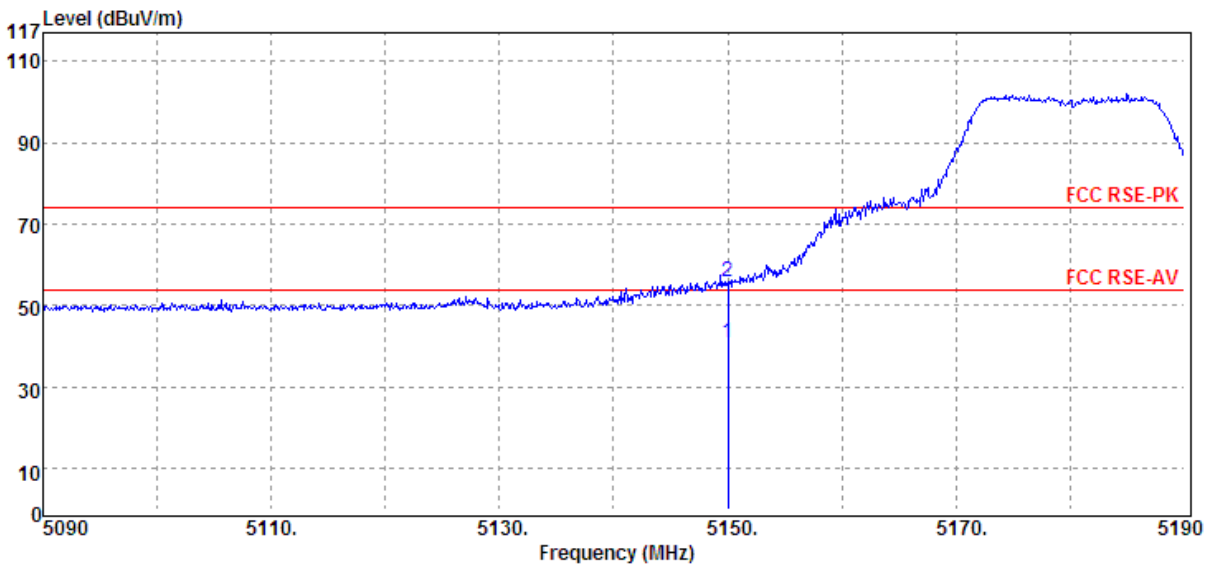
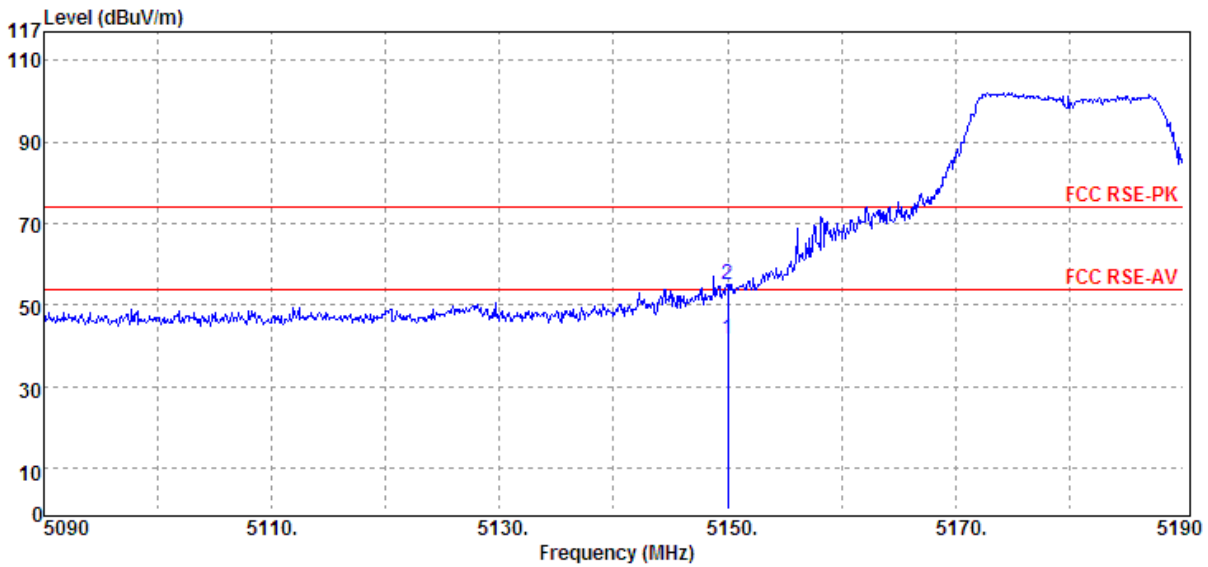
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Band Edges Radiated Emission:

Note: The emission that surpasses the limit of peak represents the fundamental emission of the operation that does not account to be conformed to the limit of the interest.

802.11a

Operation Band	:802.11a	Test Date	:2013-05-02
Fundamental Frequency	:5180MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

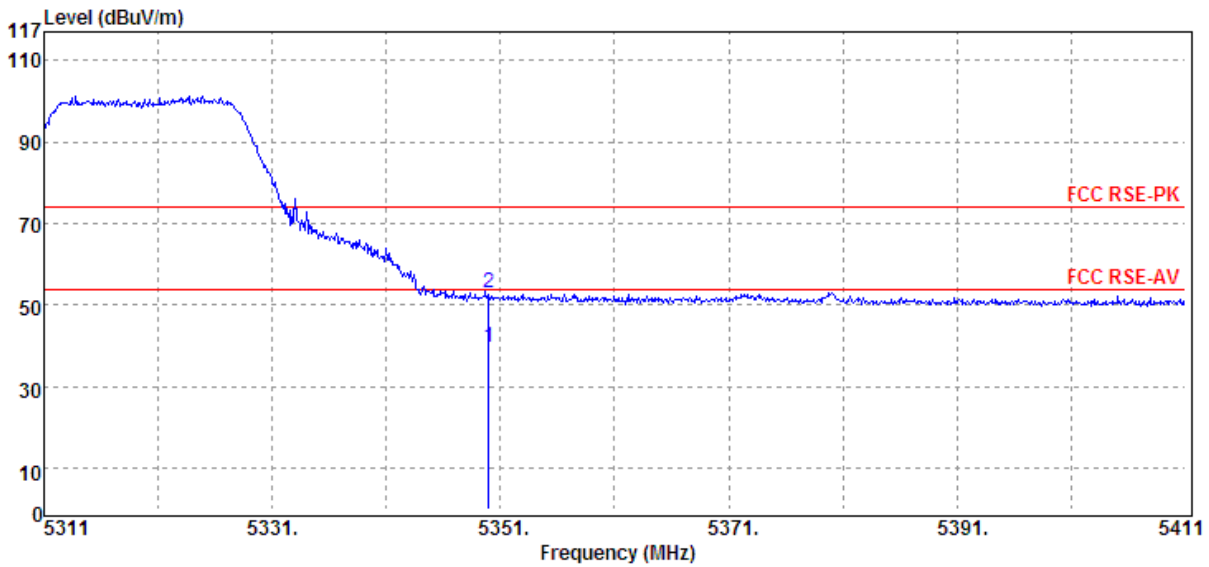
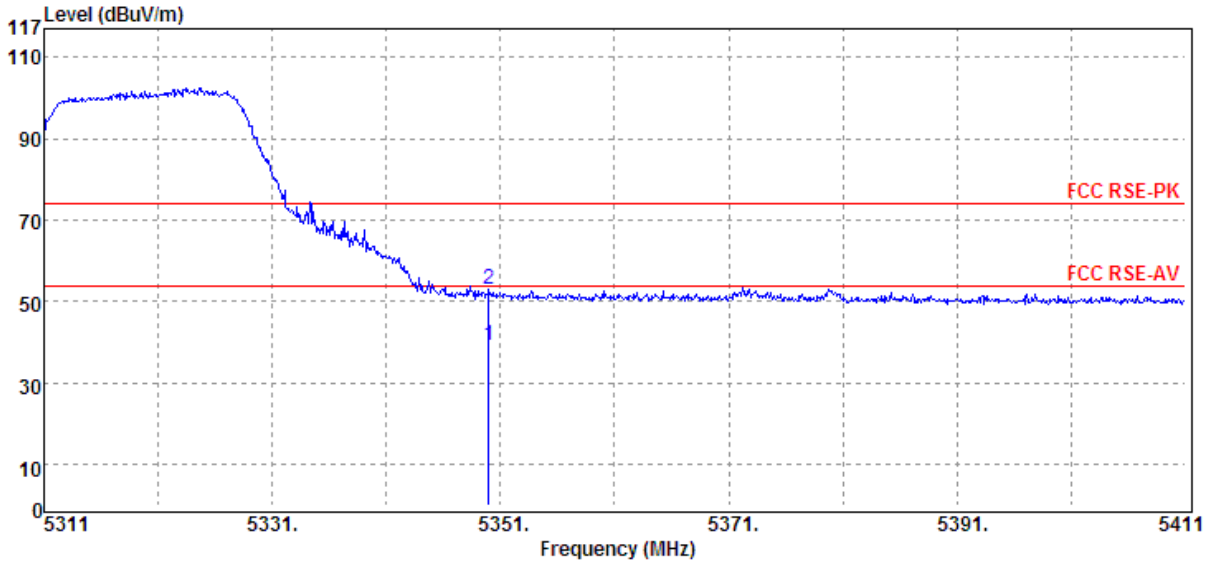


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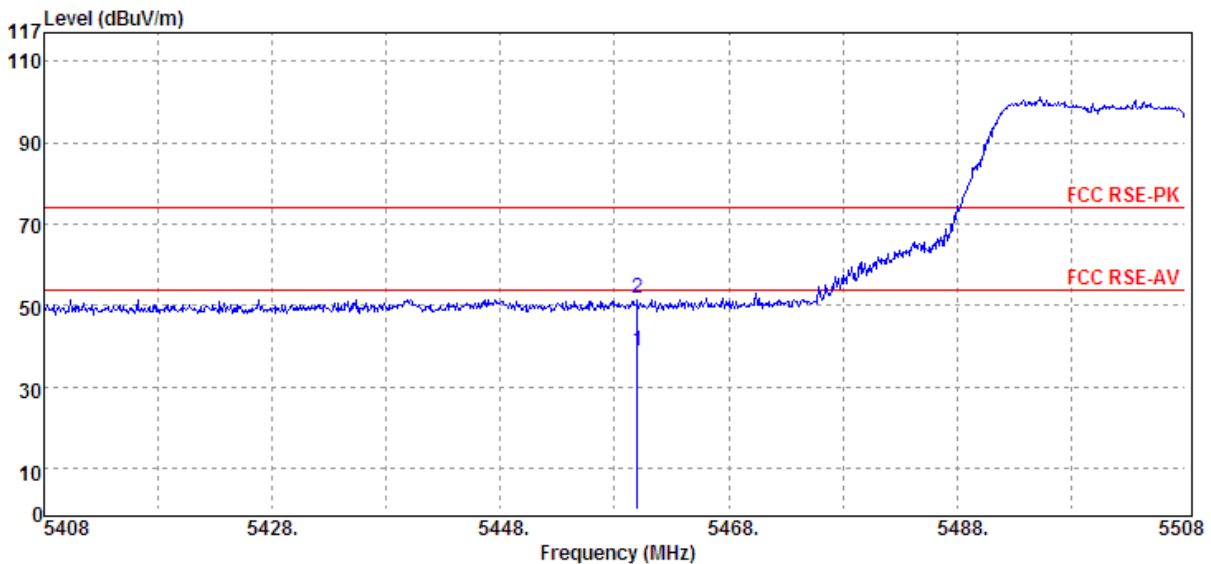
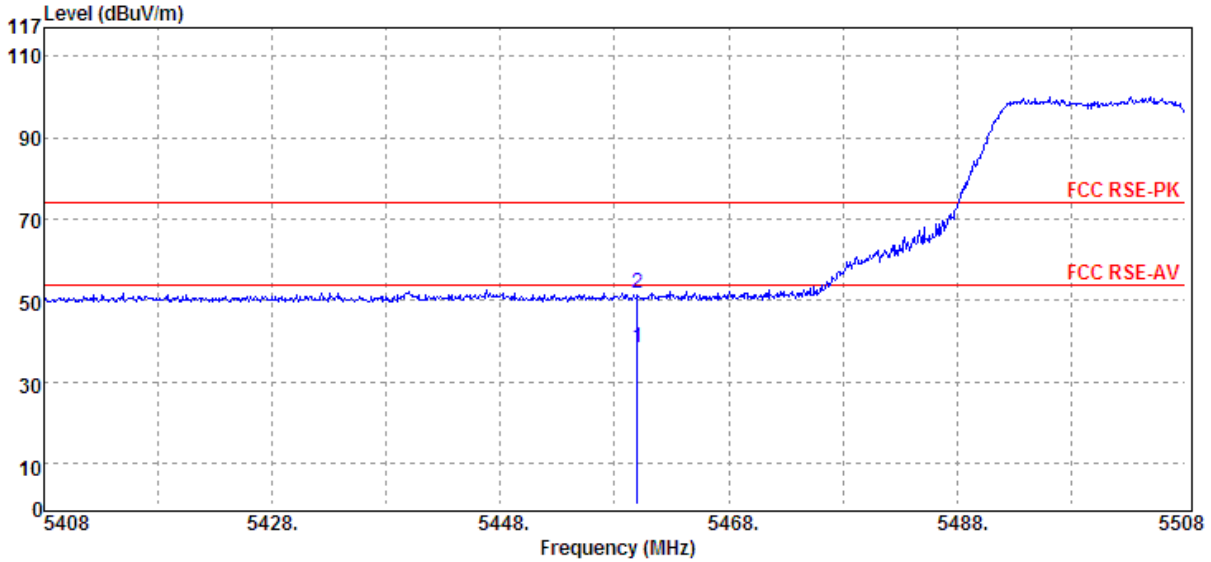
Operation Band	:802.11a	Test Date	:2013-05-02
Fundamental Frequency	:5320MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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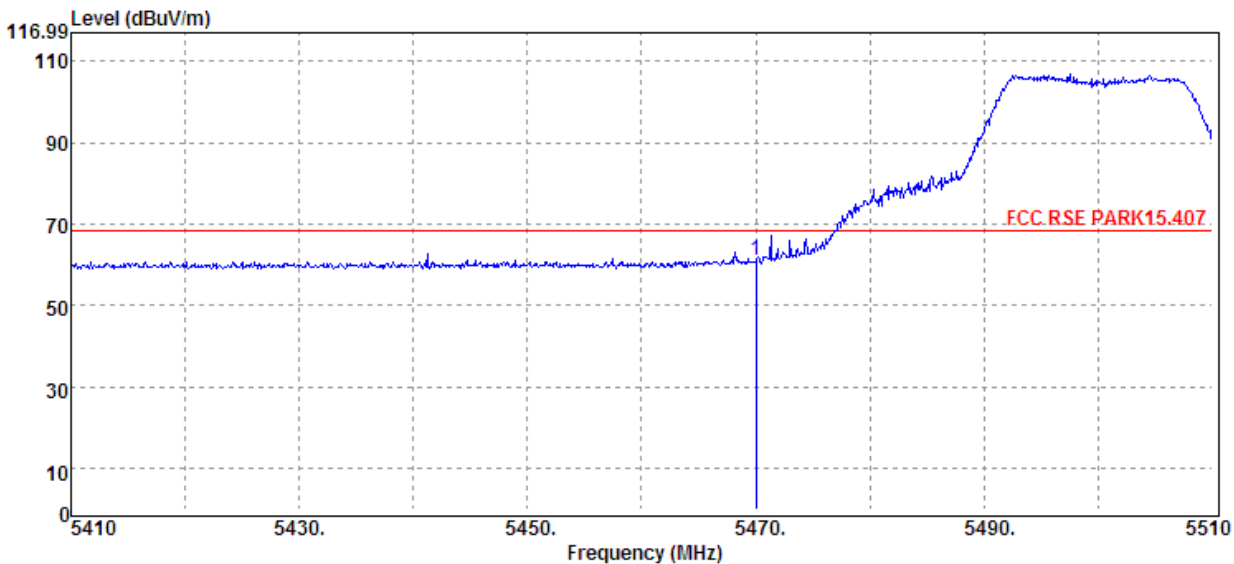
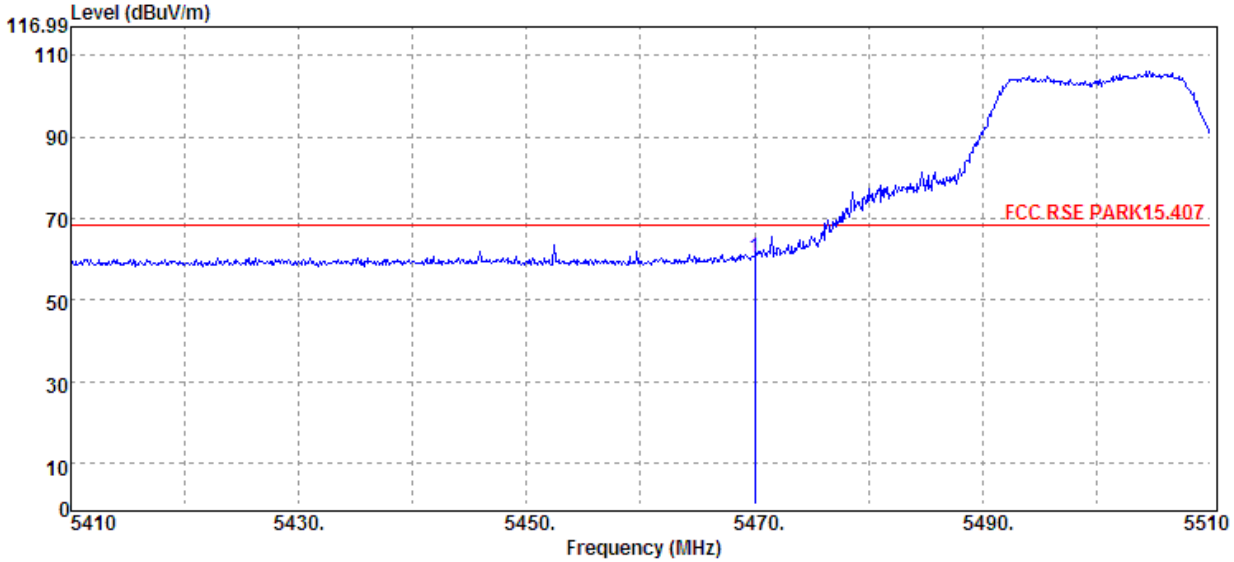
Operation Band	:802.11a	Test Date	:2013-05-03
Fundamental Frequency	:5500MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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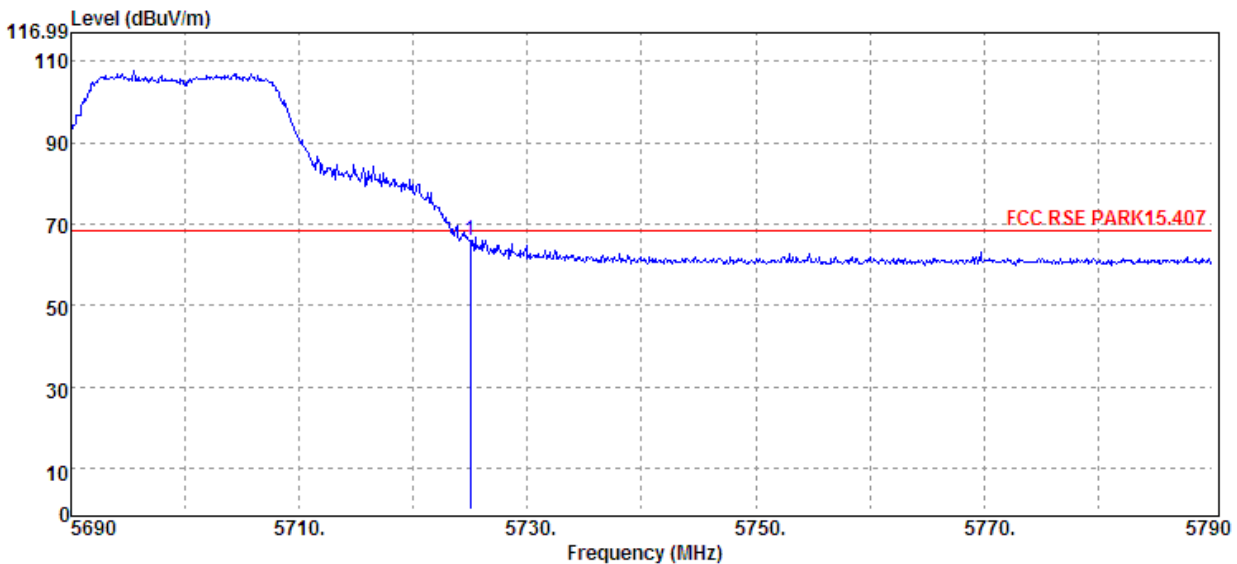
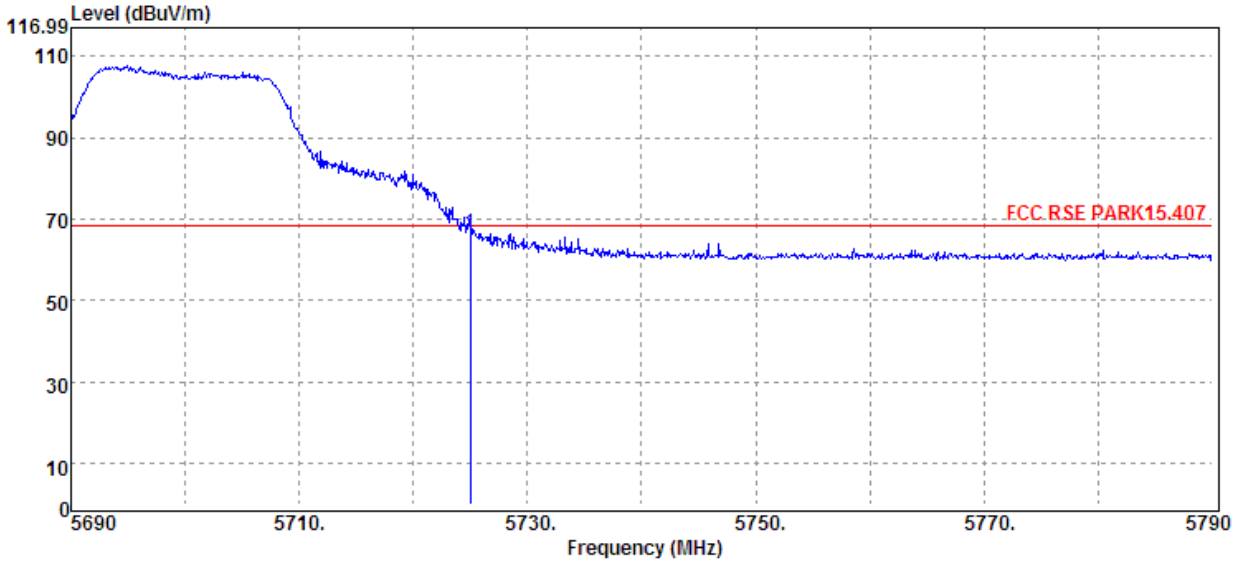
Operation Band	:802.11 a	Test Date	:2013-05-07
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	: Ver. / Hor



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Operation Band	:802.11 a	Test Date	:2013-05-07
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	: Ver. / Hor.



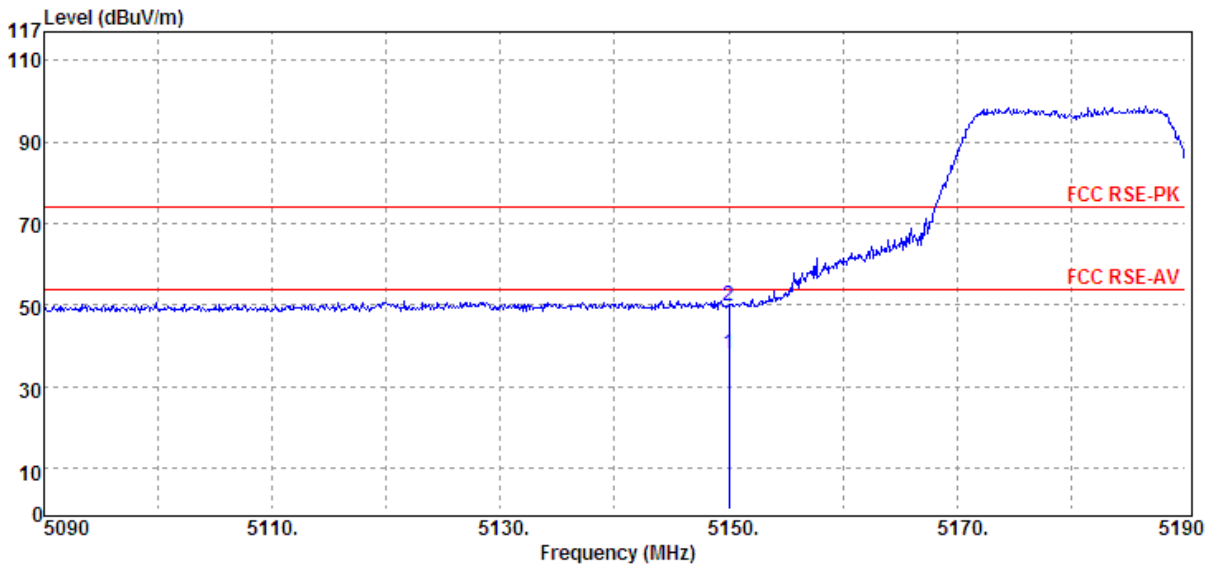
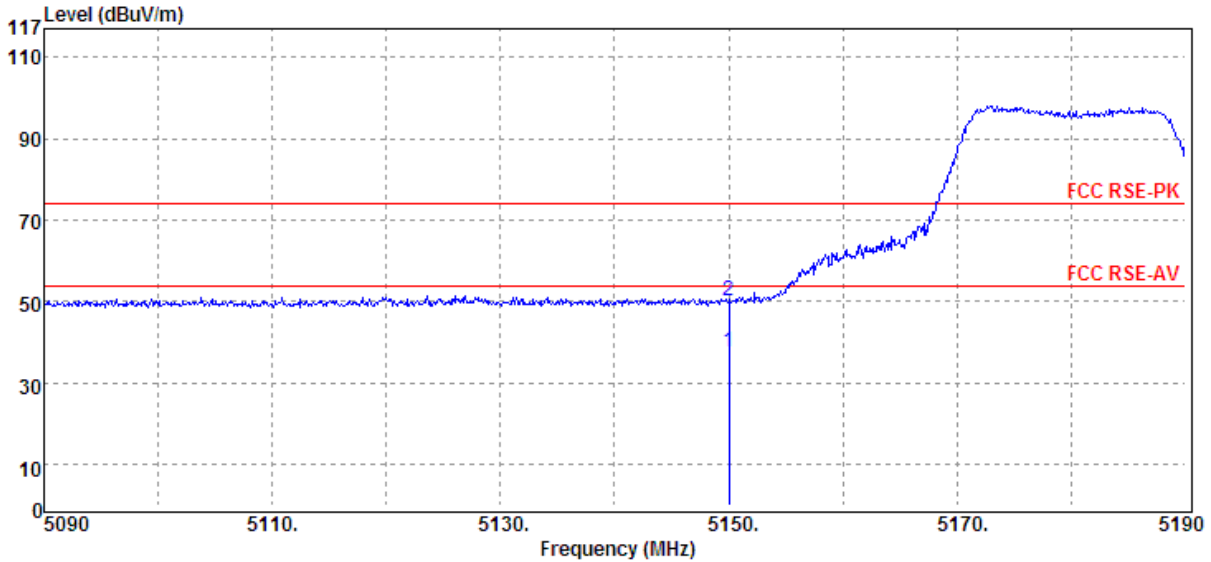
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802.11n_20M

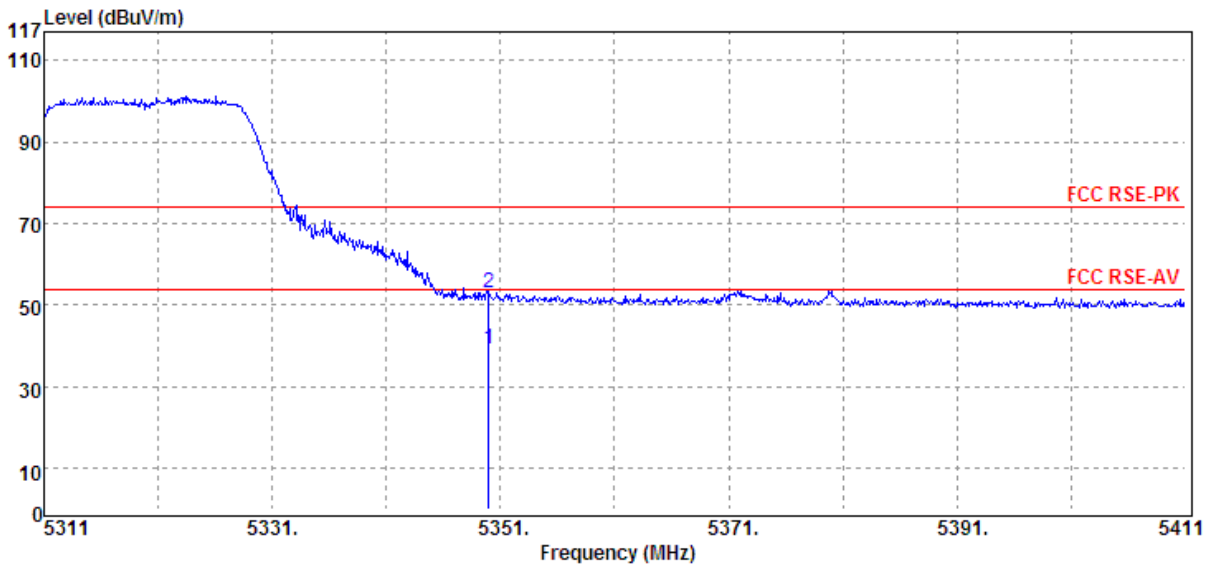
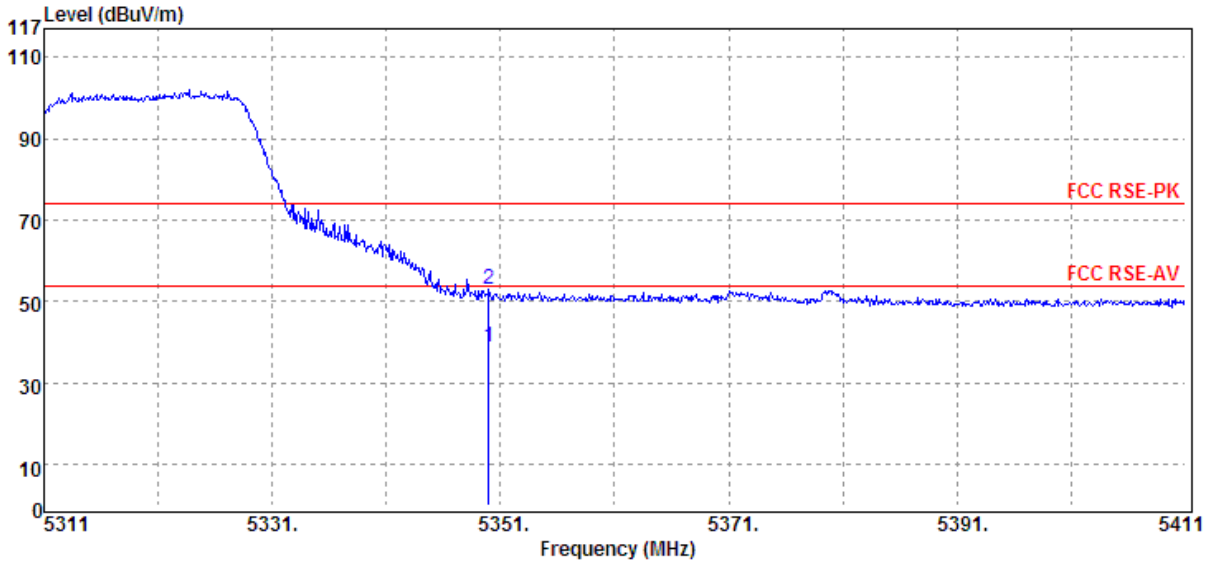
Operation Band	:802.11n20M	Test Date	:2013-04-24
Fundamental Frequency	:5180MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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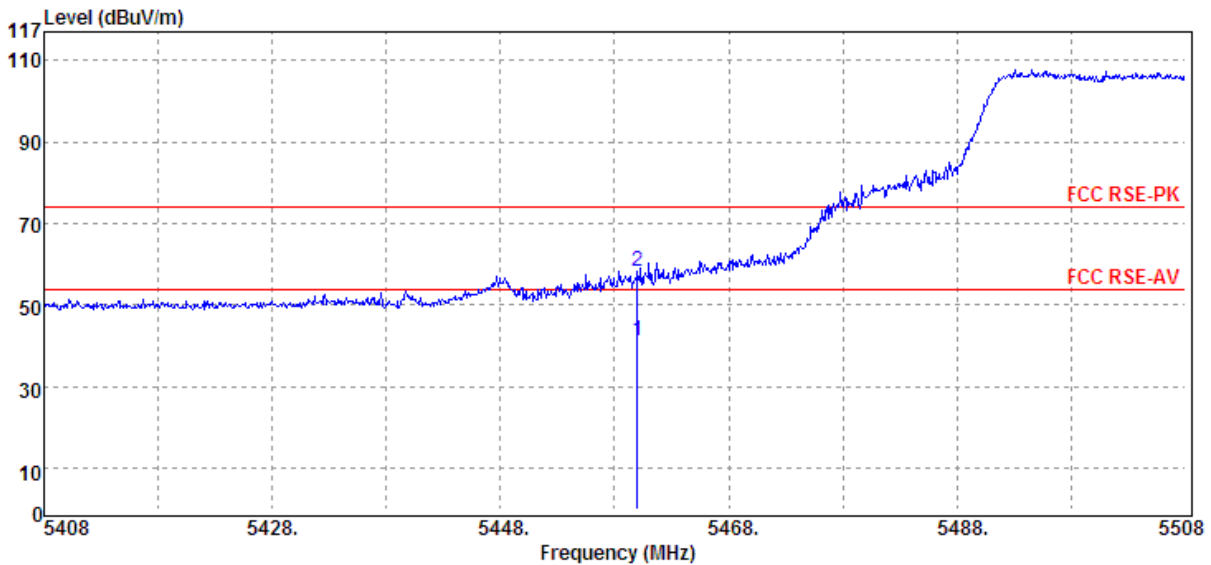
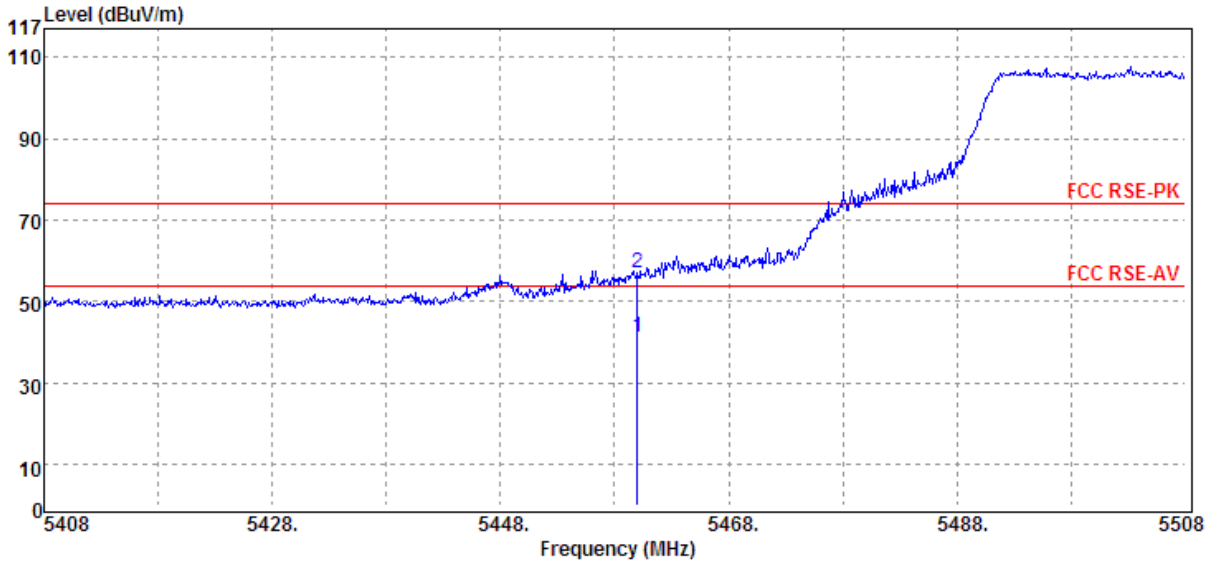
Operation Band	:802.11n20M	Test Date	:2013-04-24
Fundamental Frequency	:5320MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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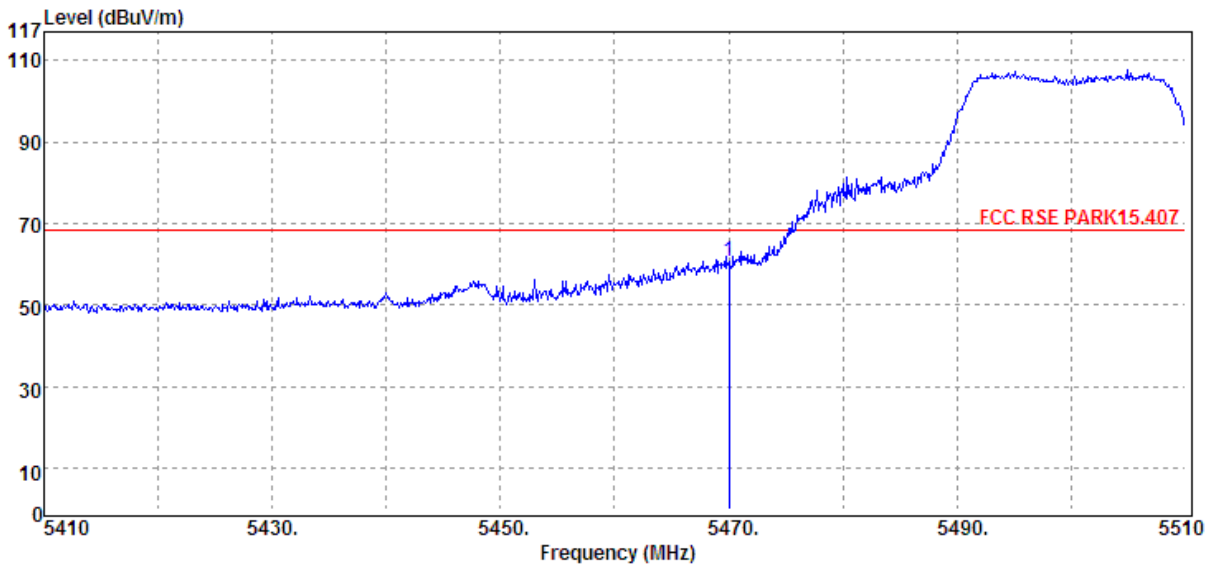
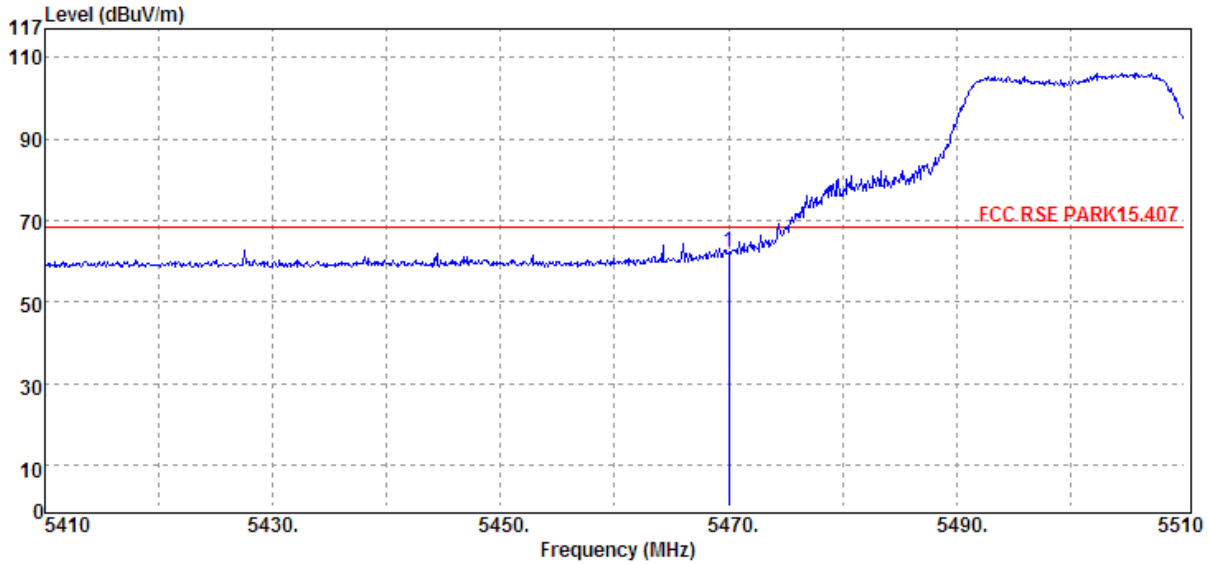
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5500MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 n20M	Test Date	:2013-05-07
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	: Ver. / Hor.

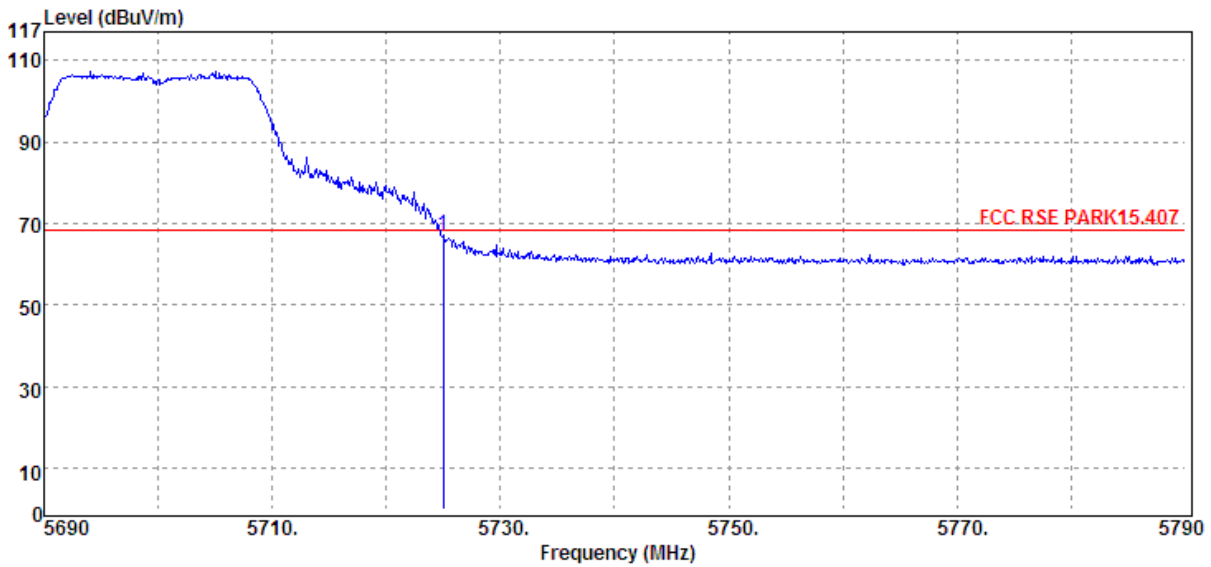
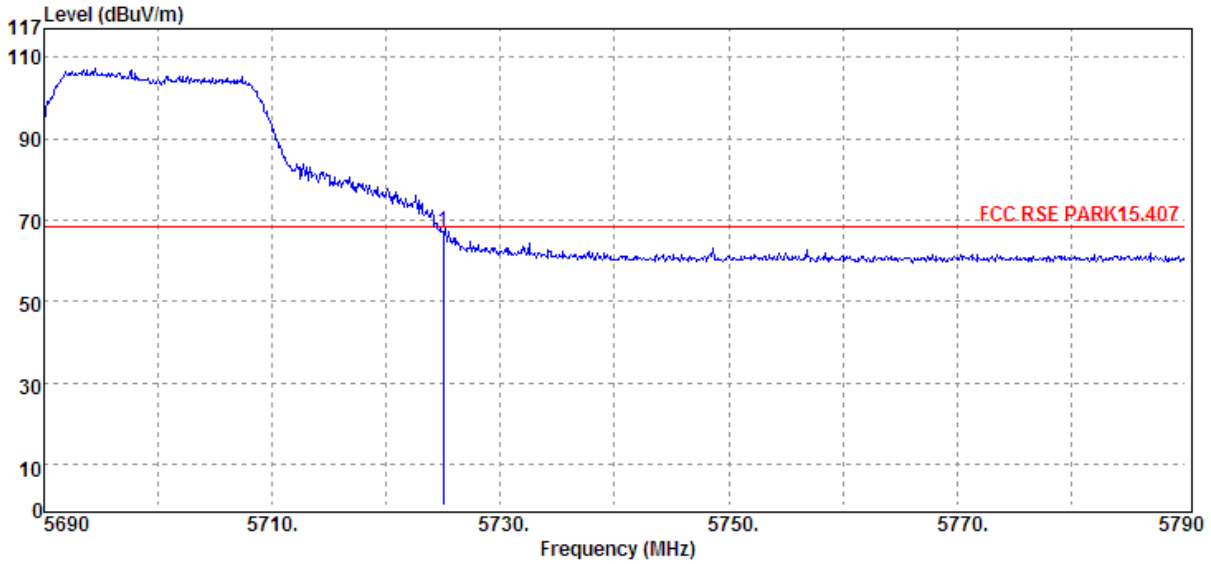


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Operation Band	:802.11 n20M	Test Date	:2013-05-07
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	: Ver. / Hor.

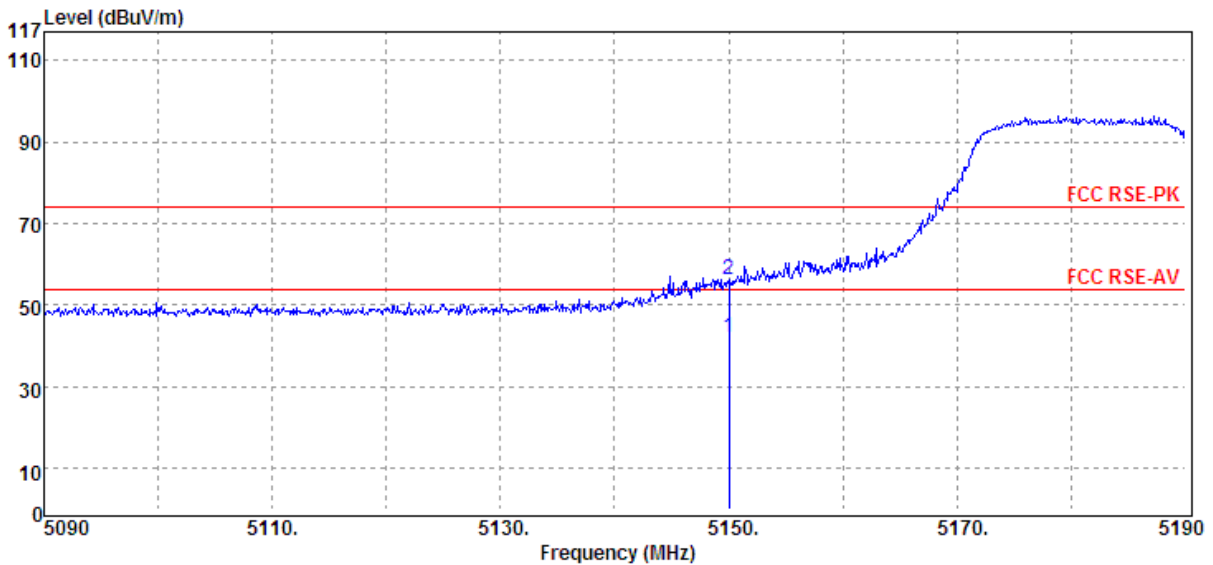
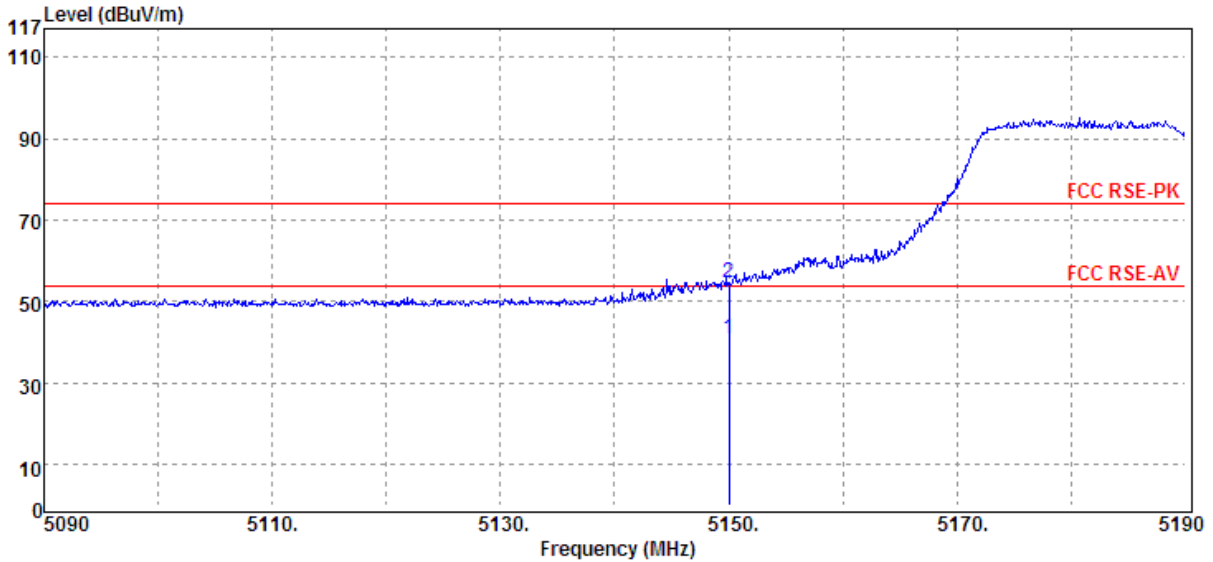


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802.11n_40M

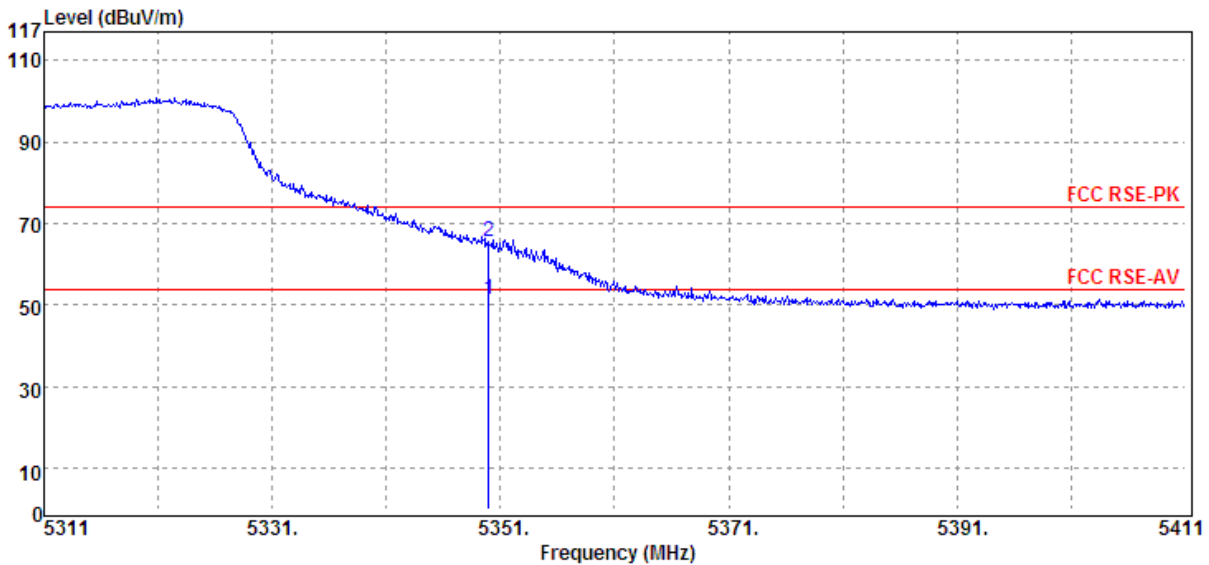
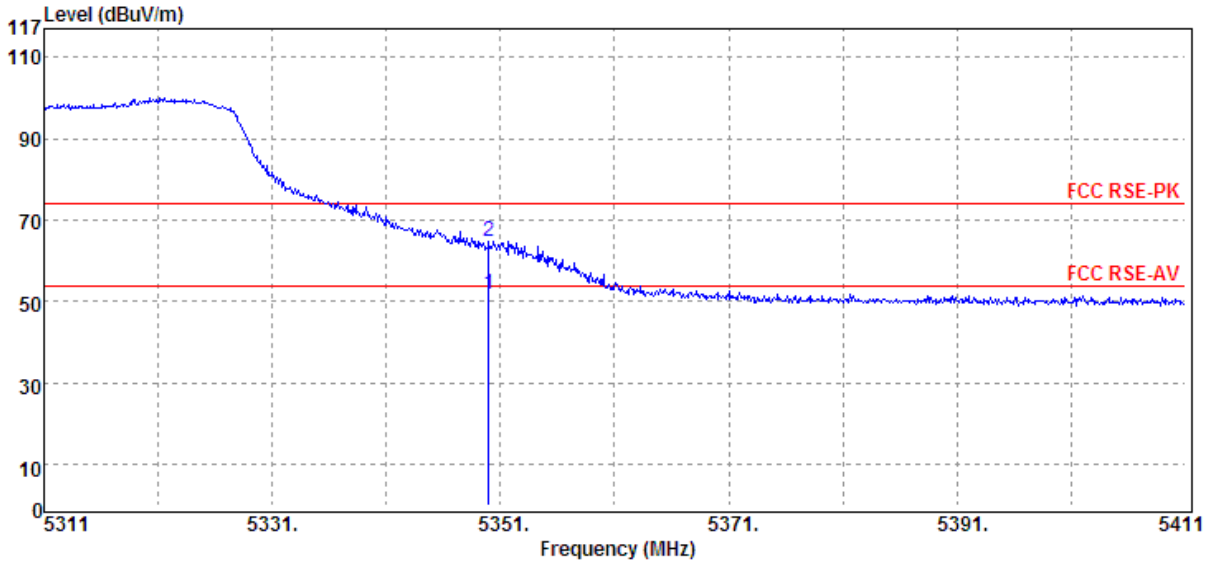
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Fundamental Frequency	:5190MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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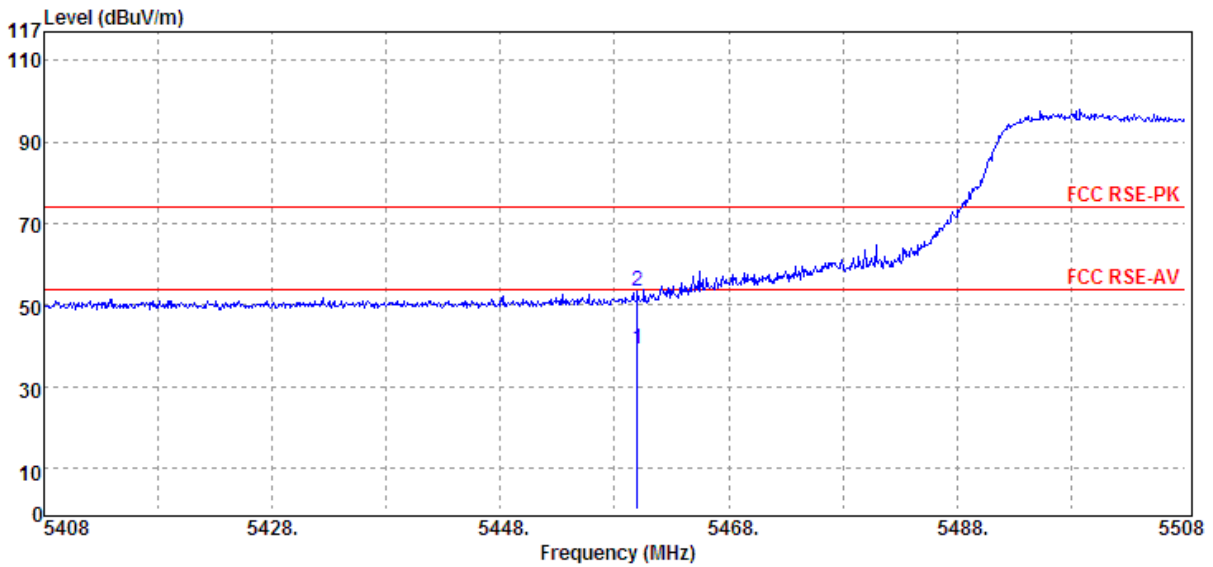
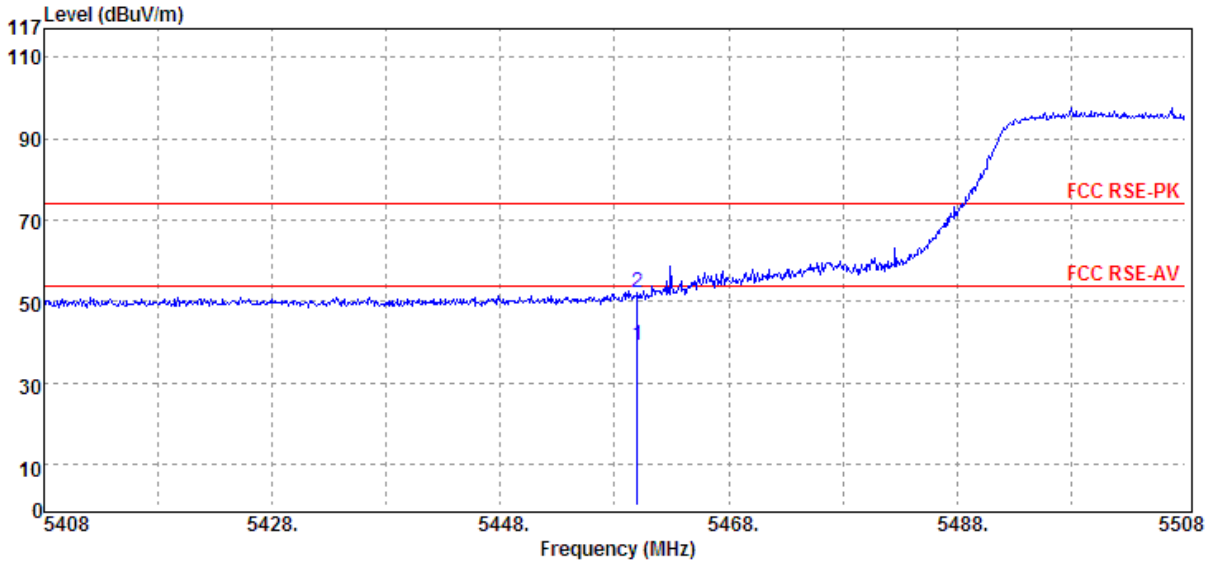
Operation Band	:802.11n40M	Test Date	:2013-04-24
Fundamental Frequency	:5310MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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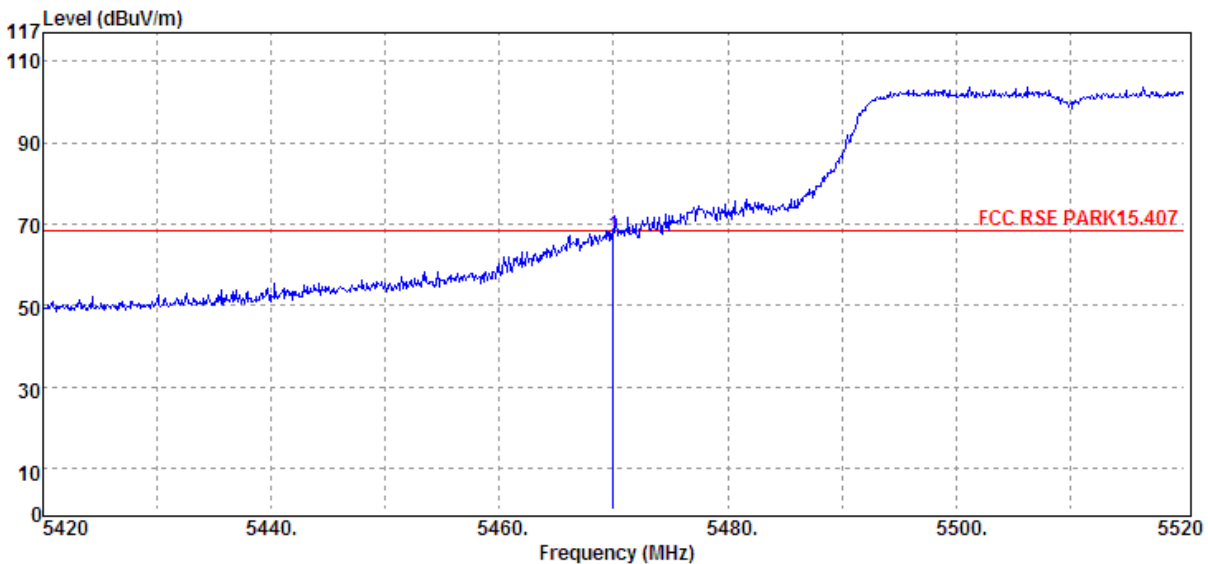
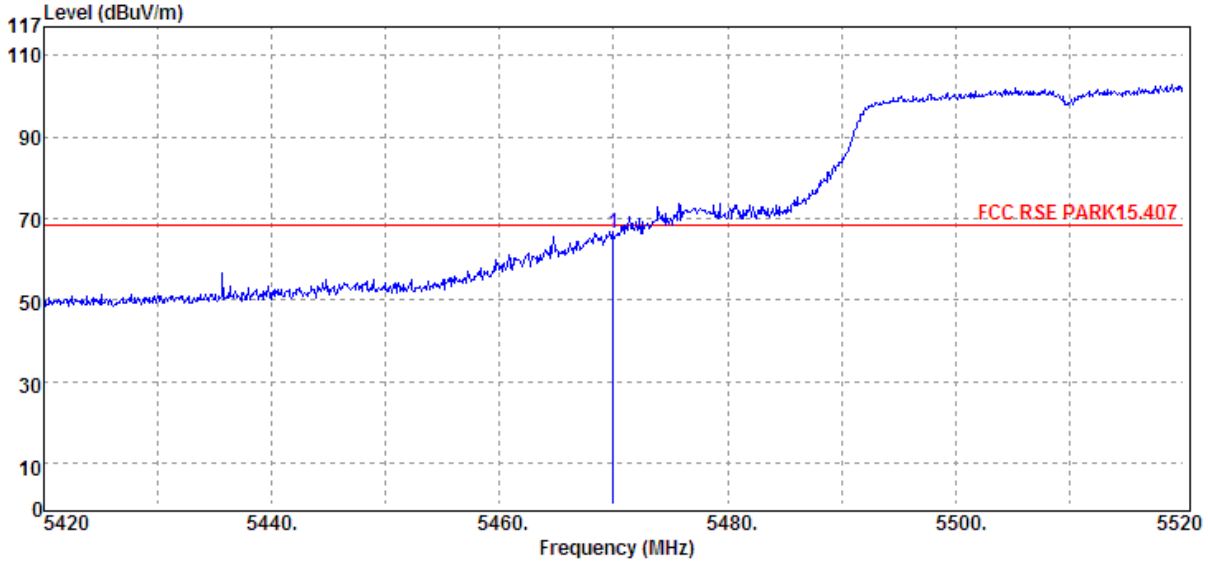
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510MHz	Temp./Humi.	:24deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 n40M	Test Date	:2013-05-07
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	: Ver. / Hor.

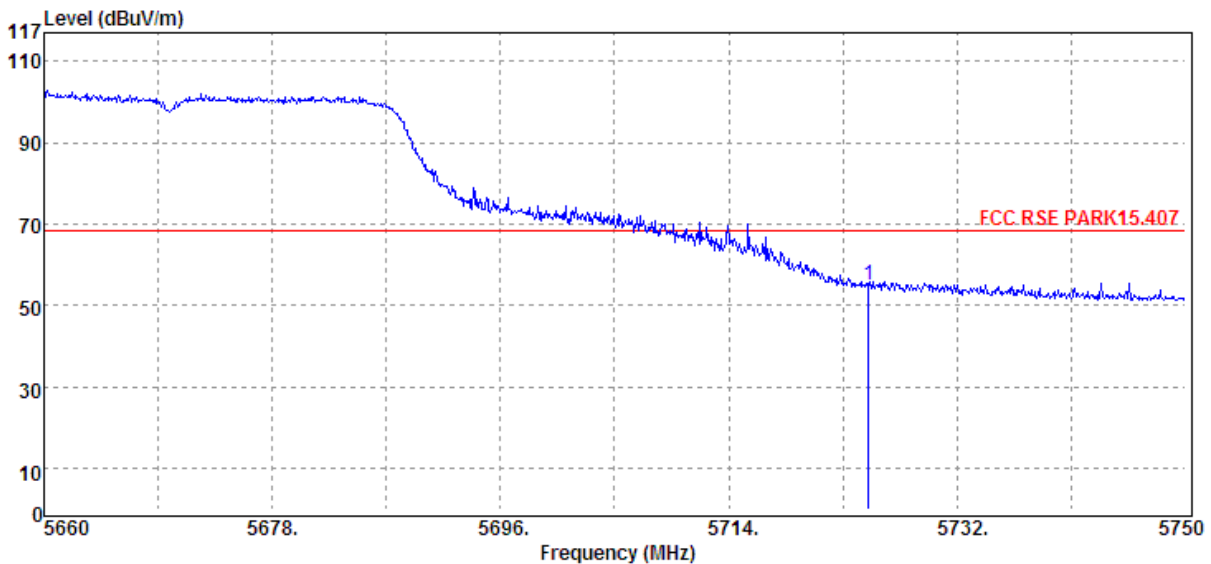
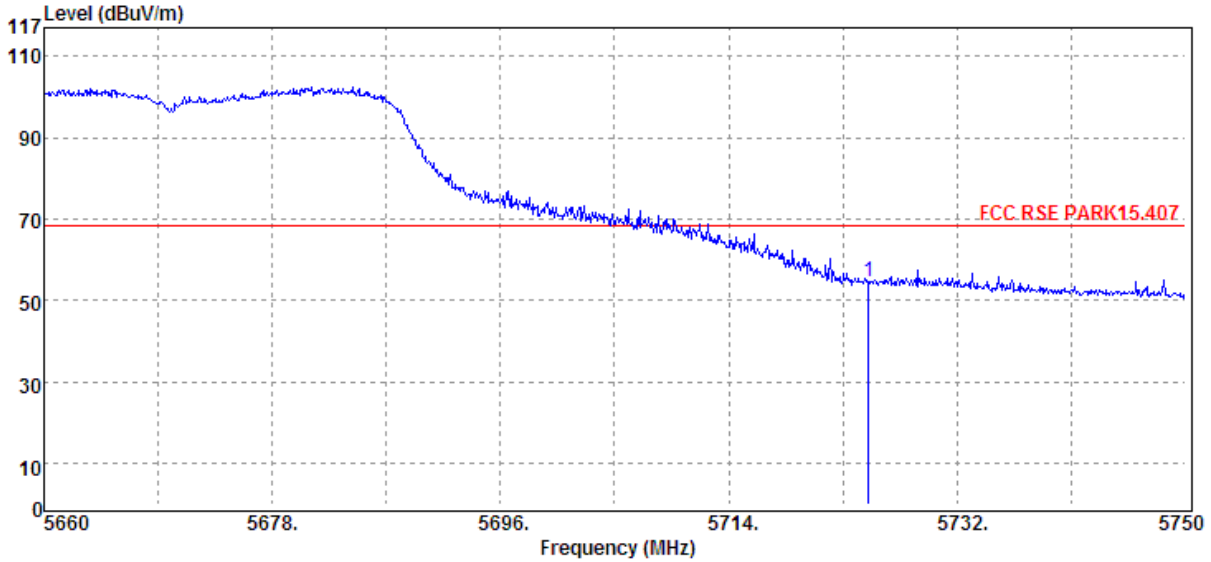


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Operation Band	:802.11 n40M	Test Date	:2013-05-07
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:Band edge HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	: Ver. / Hor.



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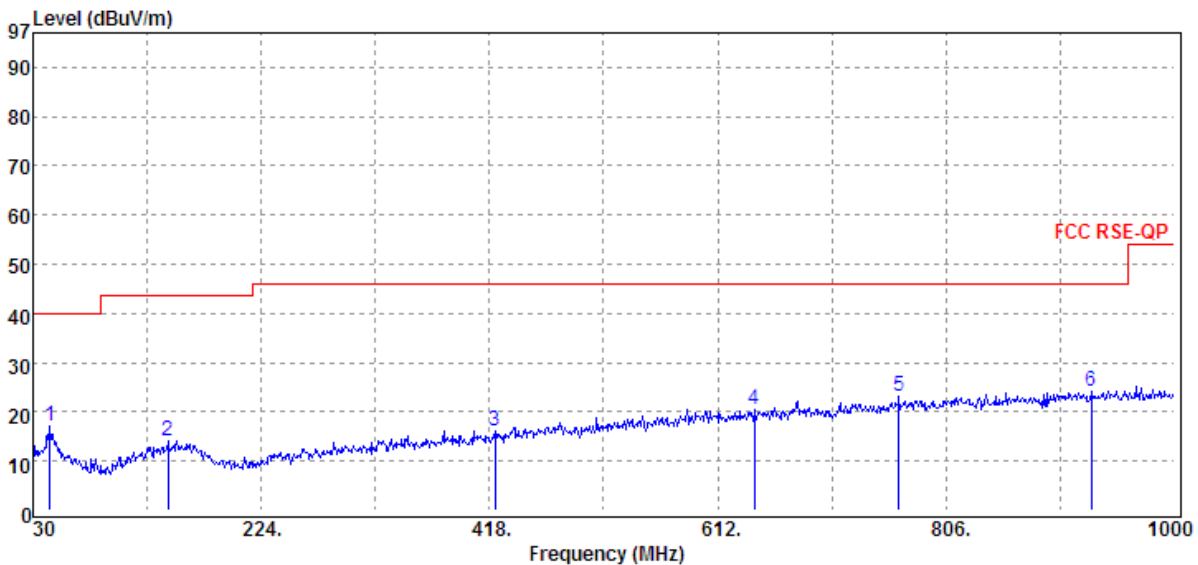
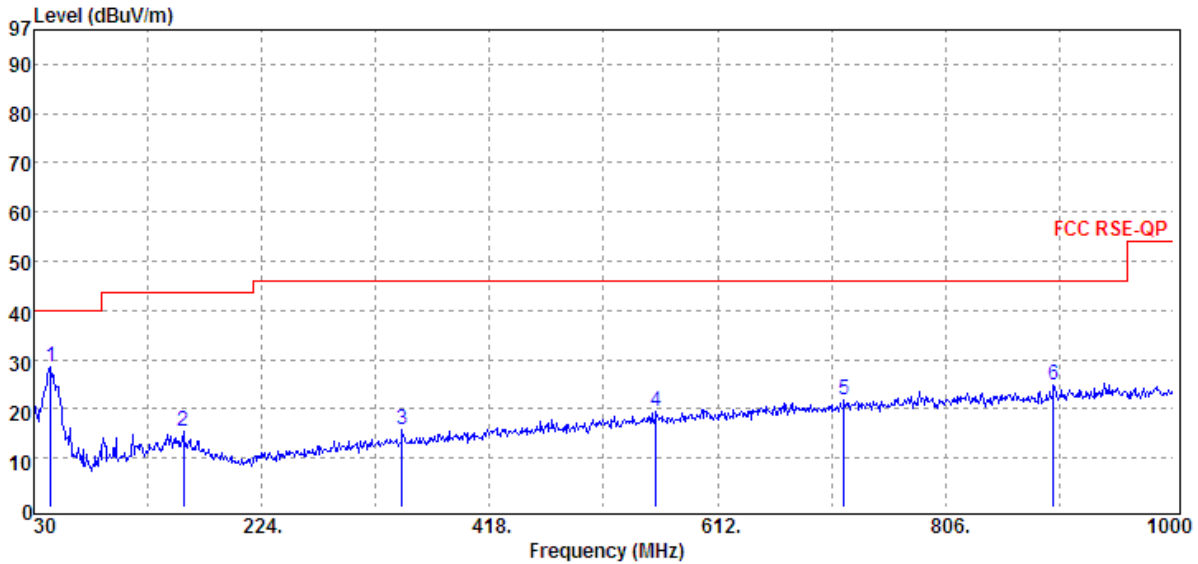
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Radiated Spurious Emission Measurement photos Result (below 1GHz)

802.11a 5150-5250MHz

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

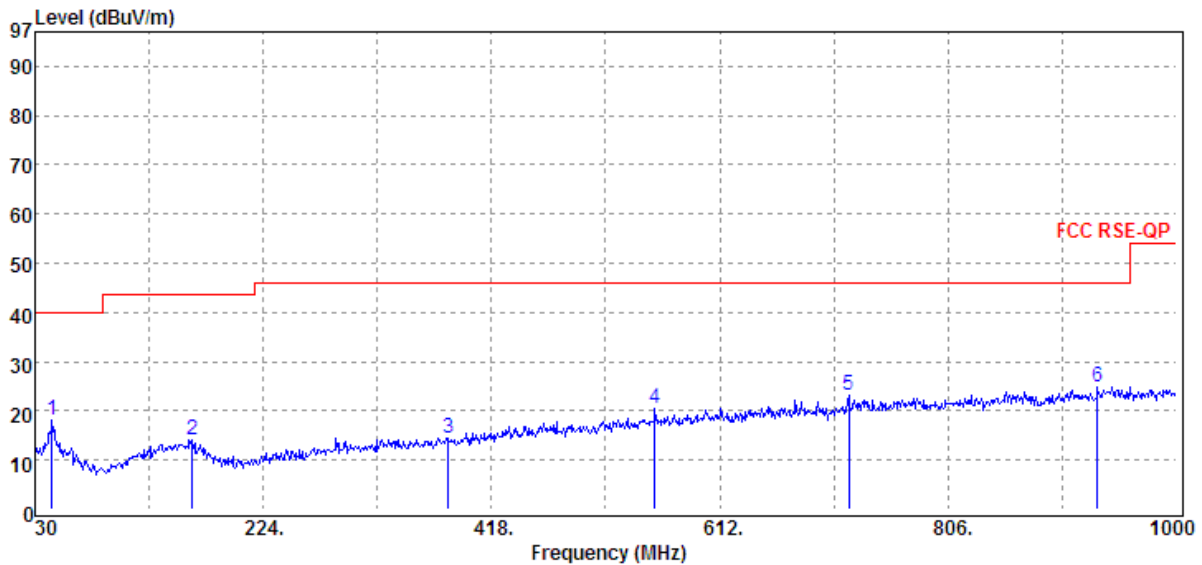
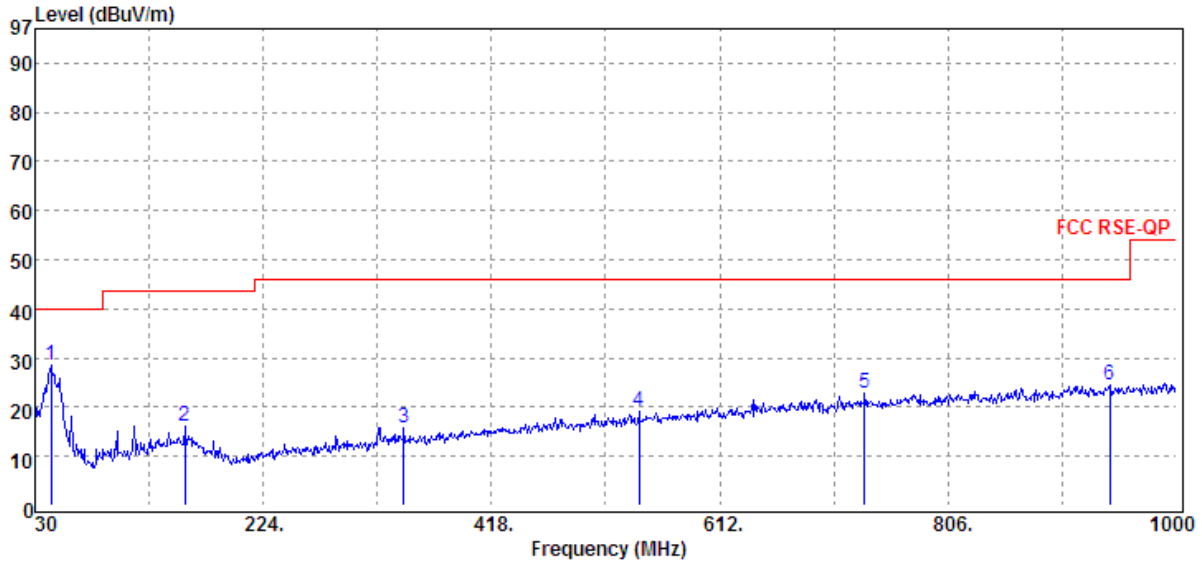


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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

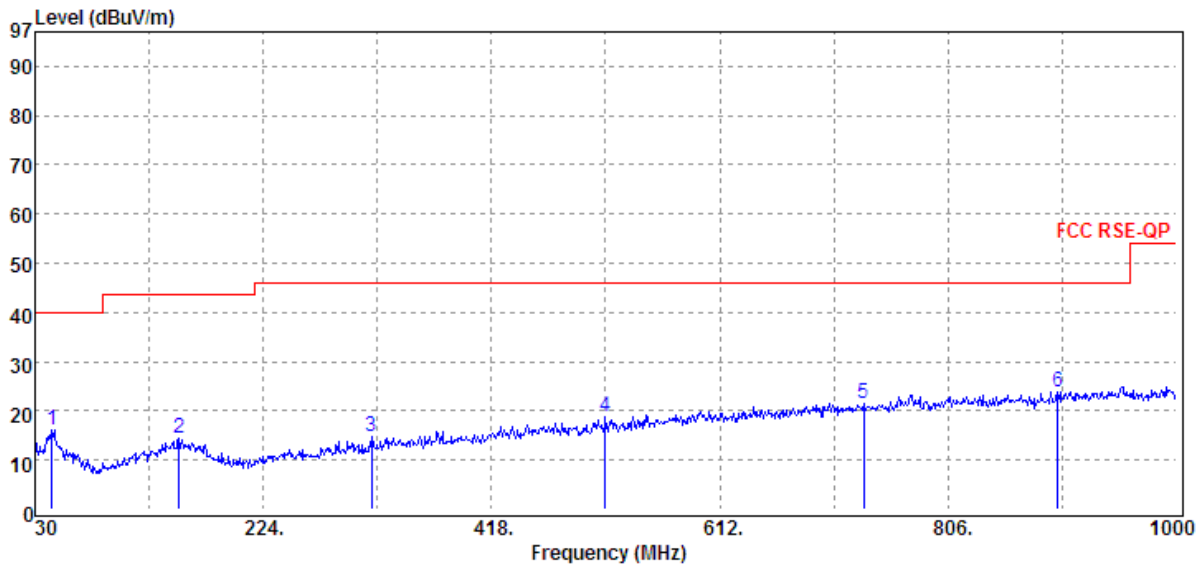
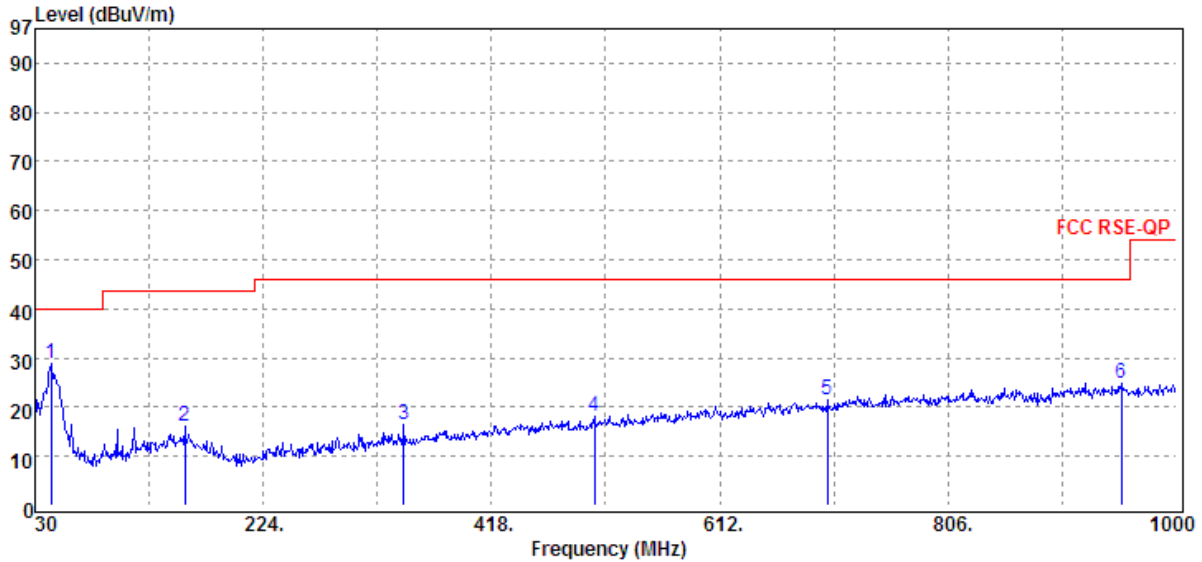


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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



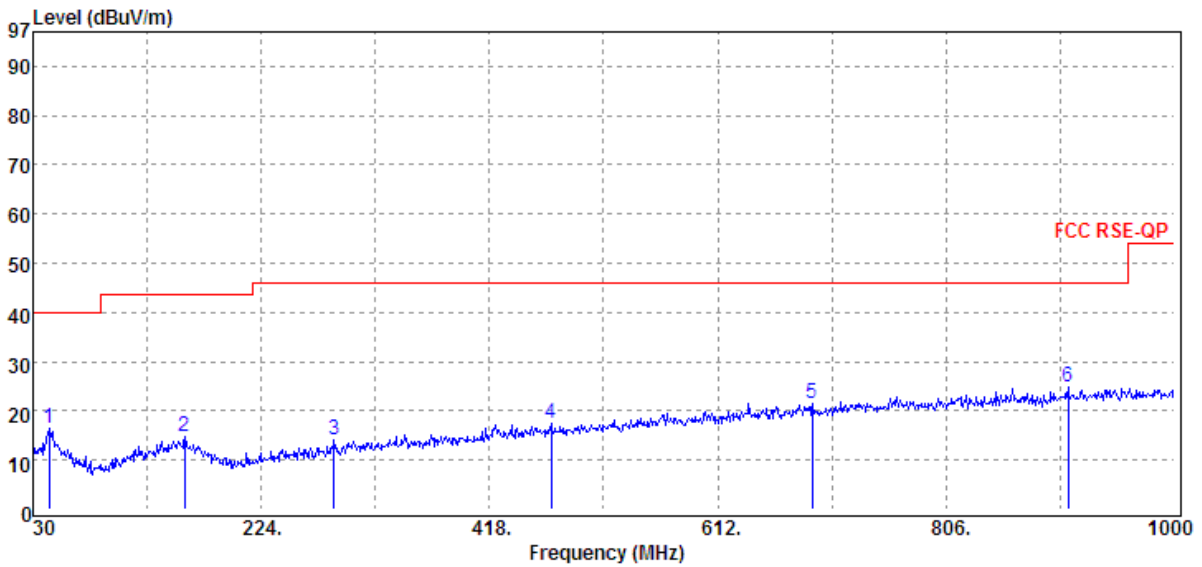
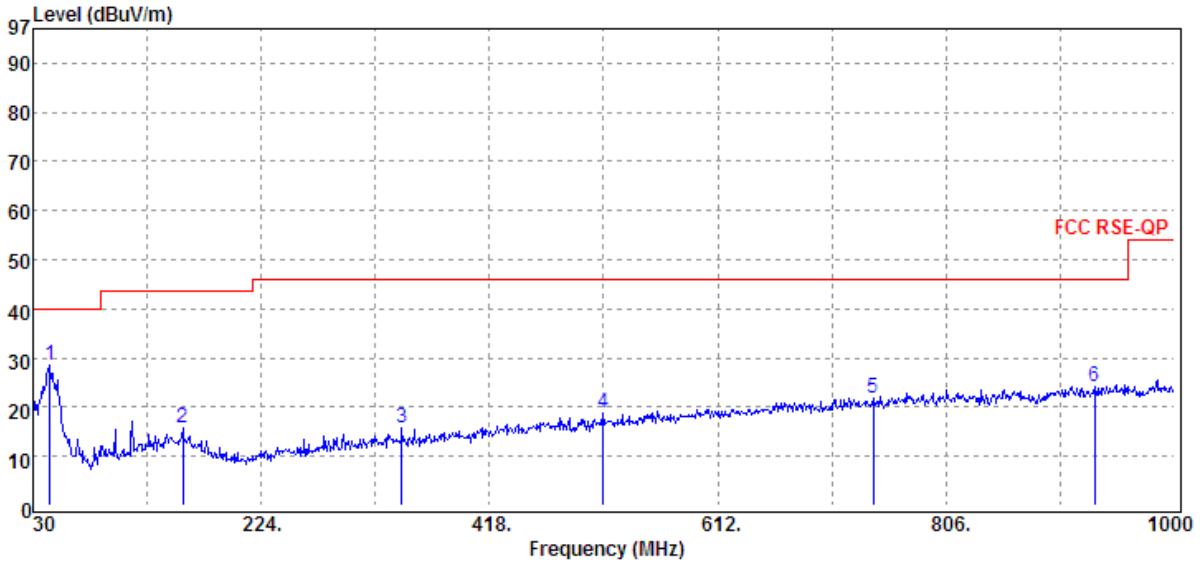
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802.11a 5250-5350MHz

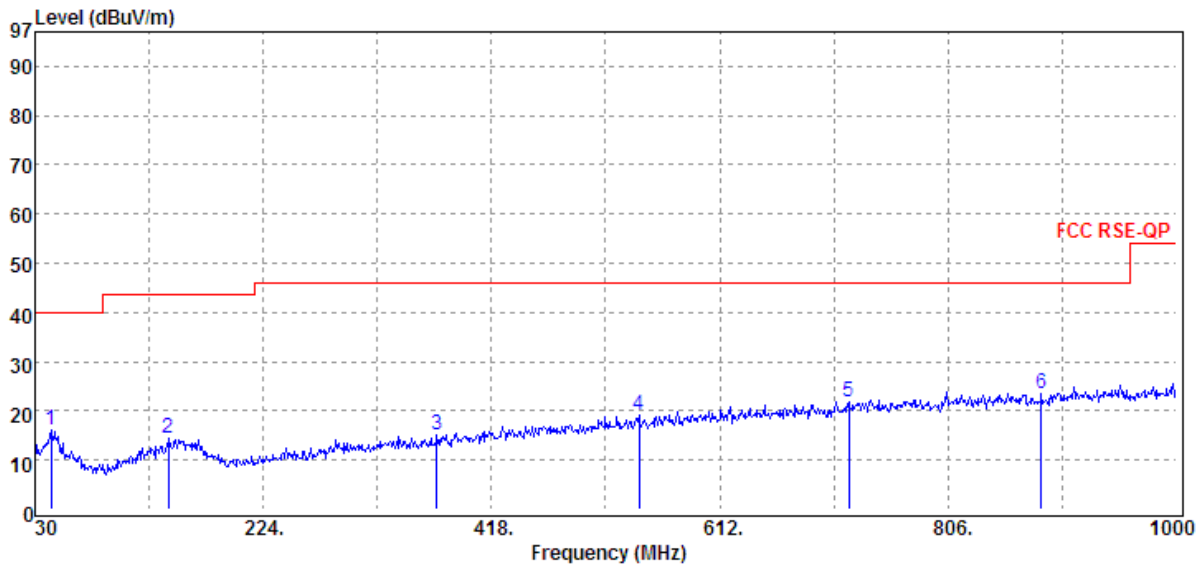
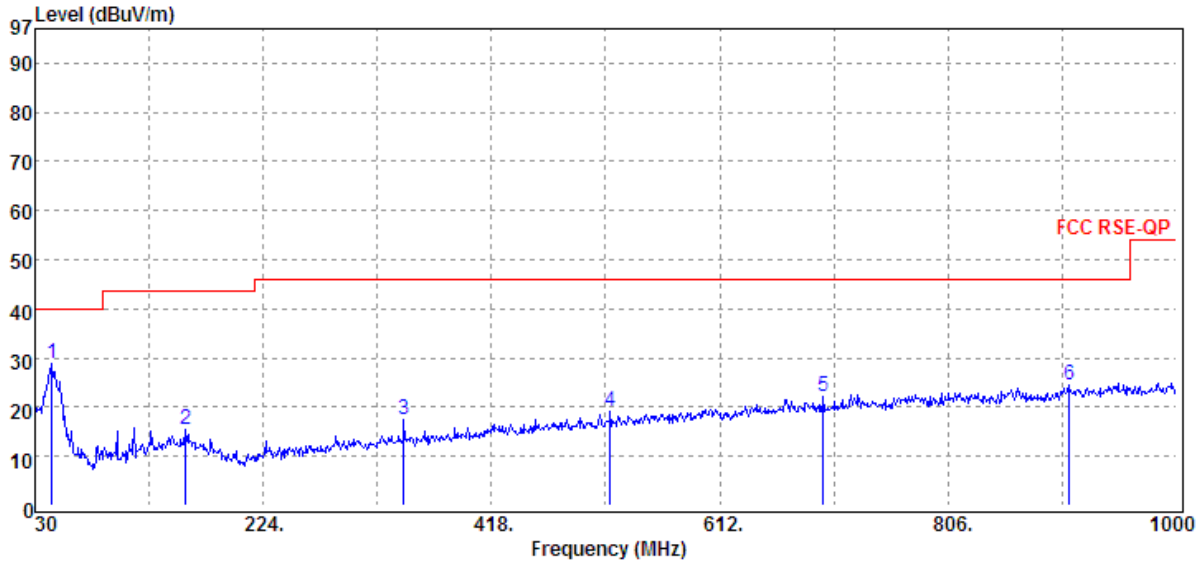
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

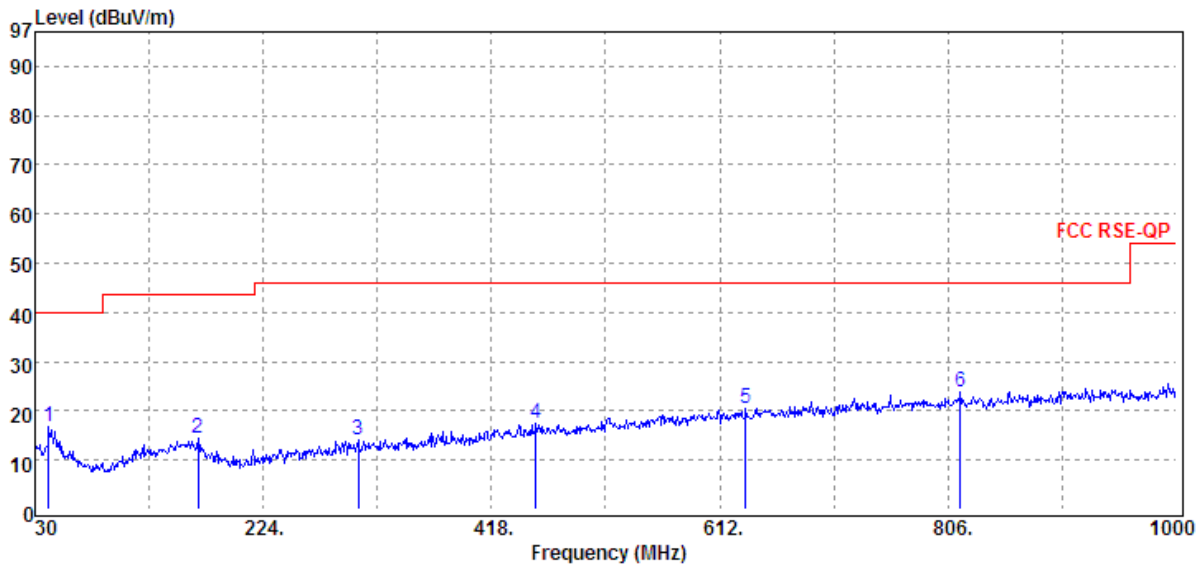
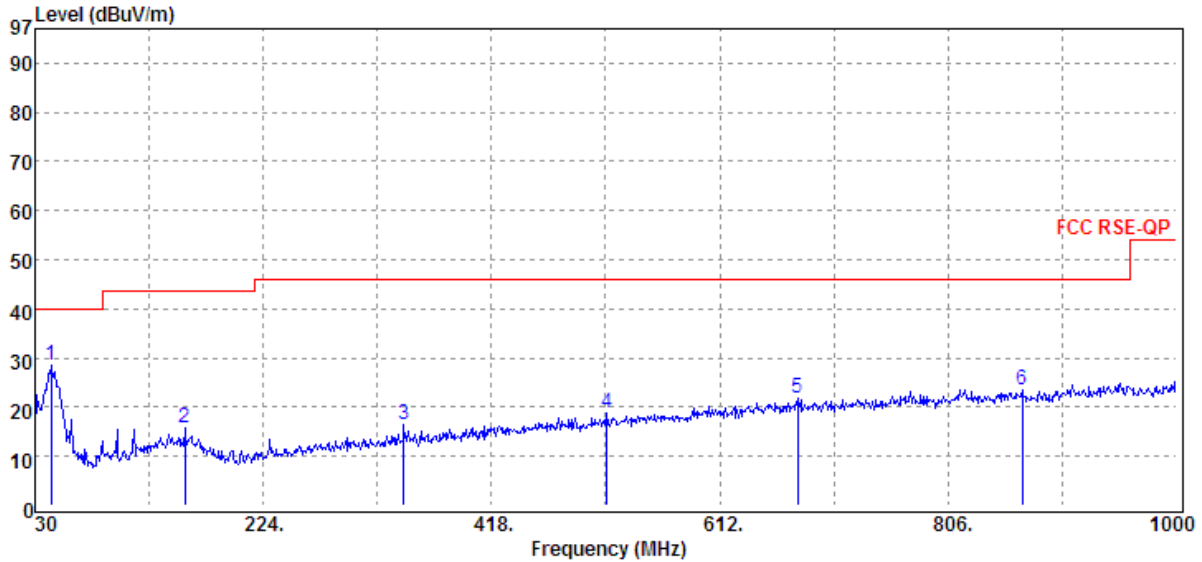


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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

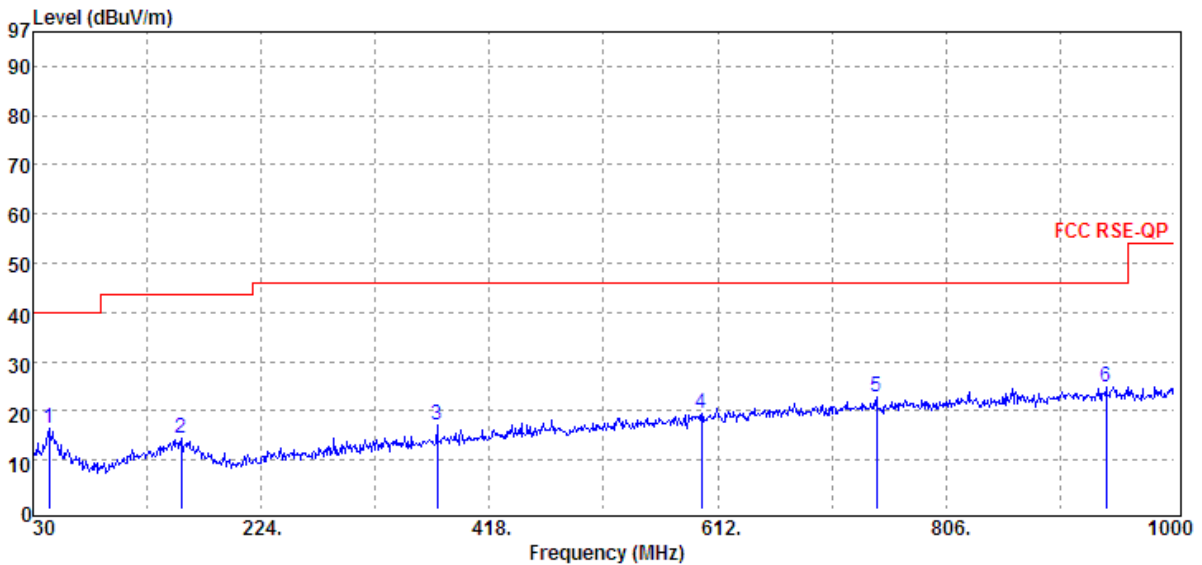
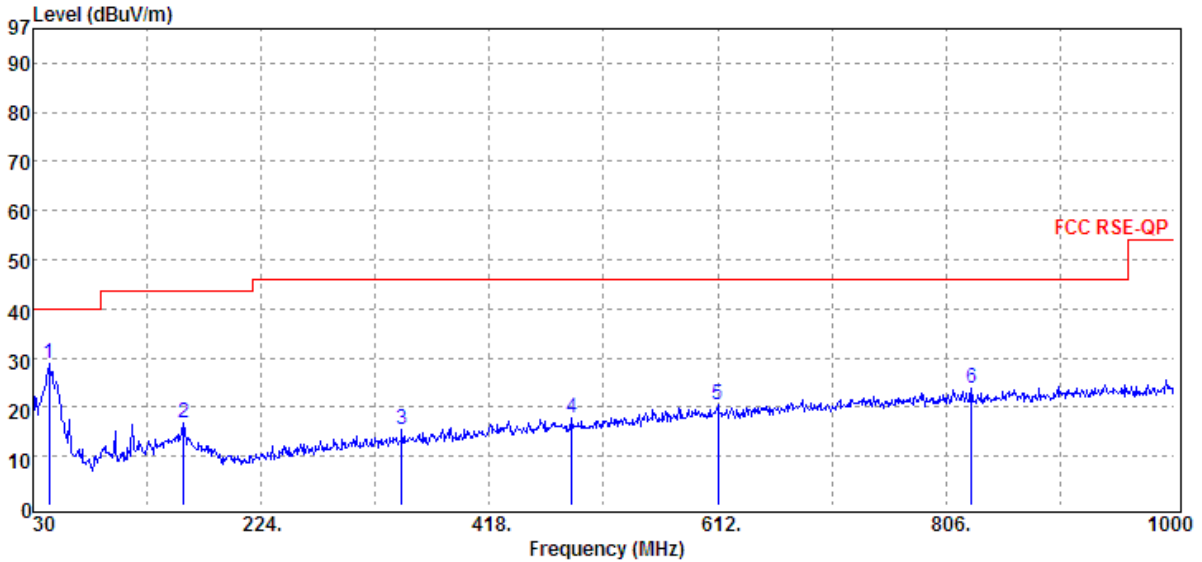


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802.11a 5470-5725MHz

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

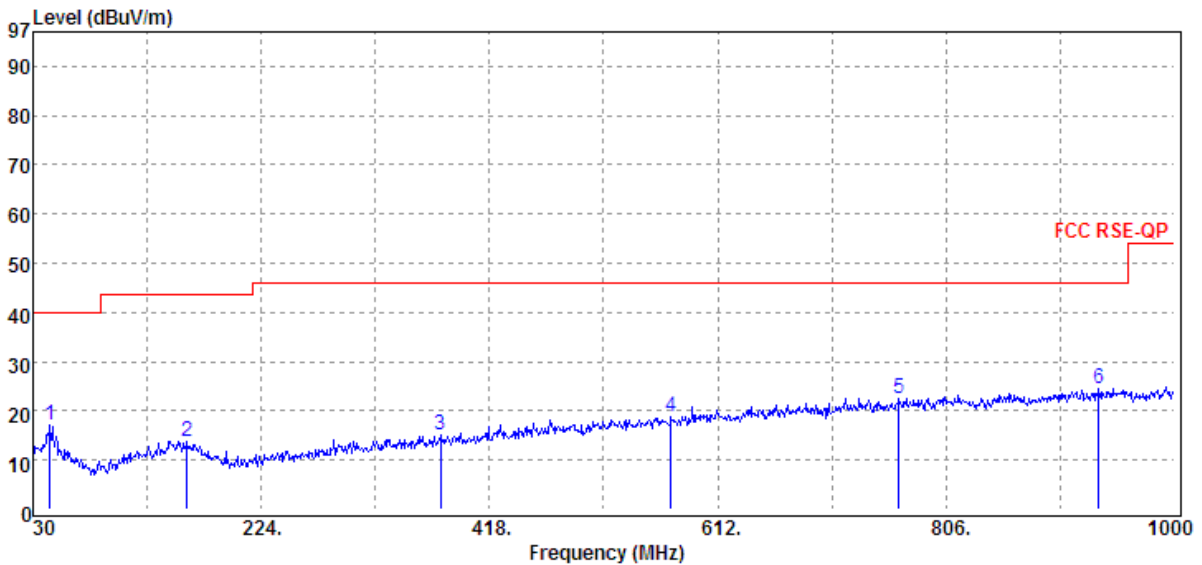
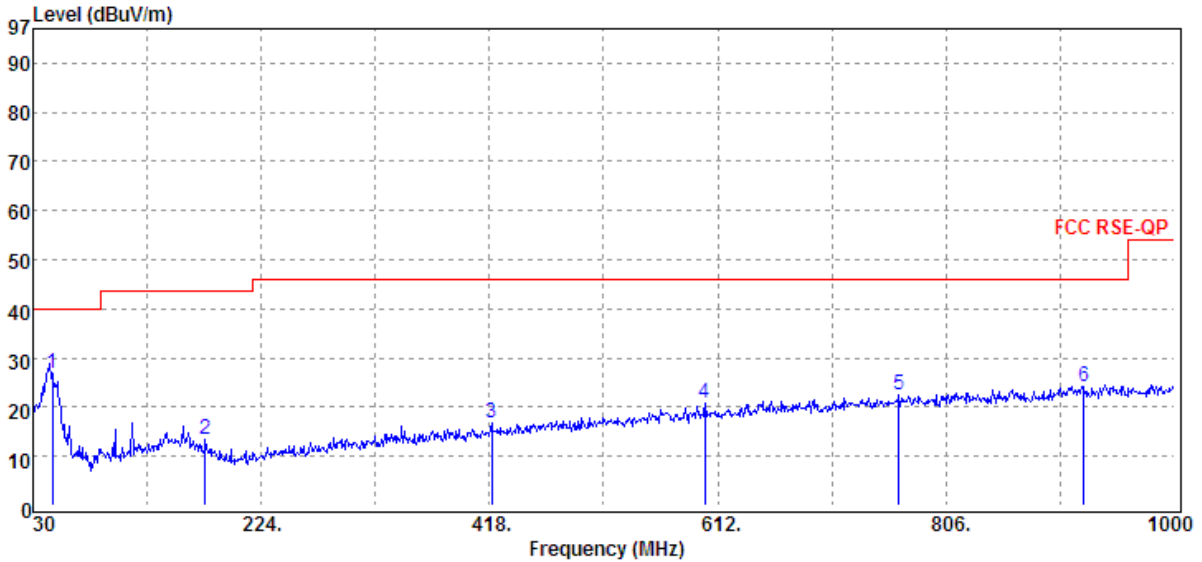


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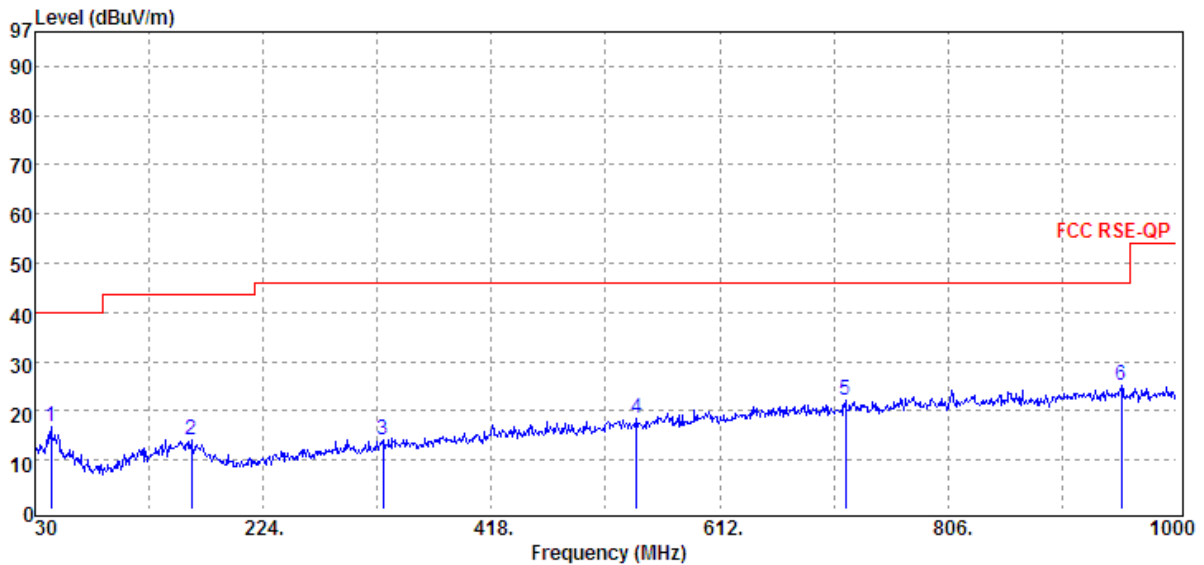
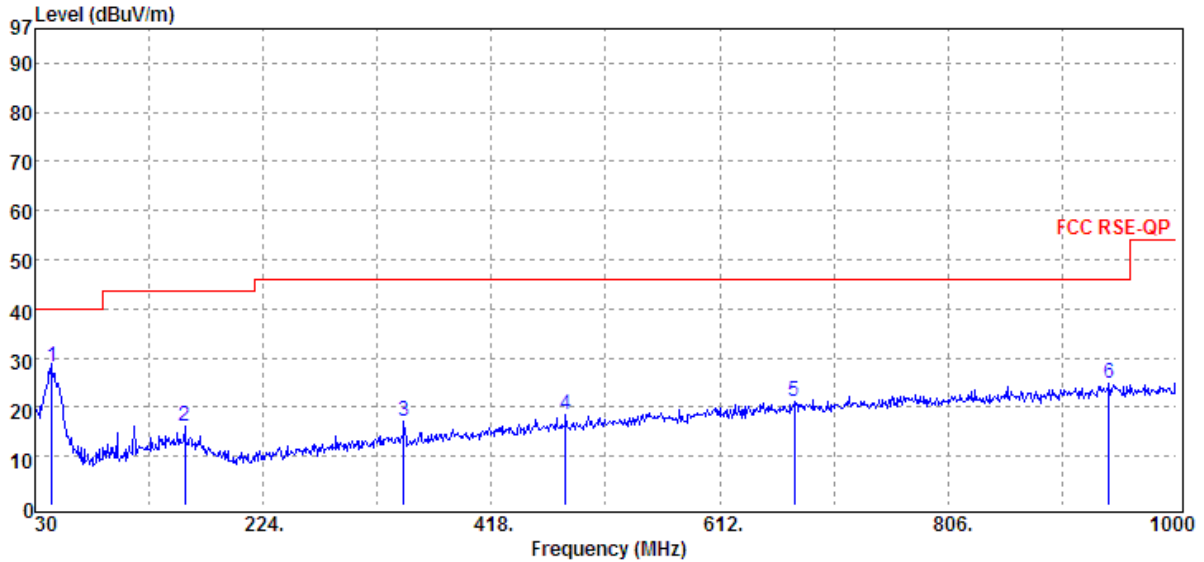
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



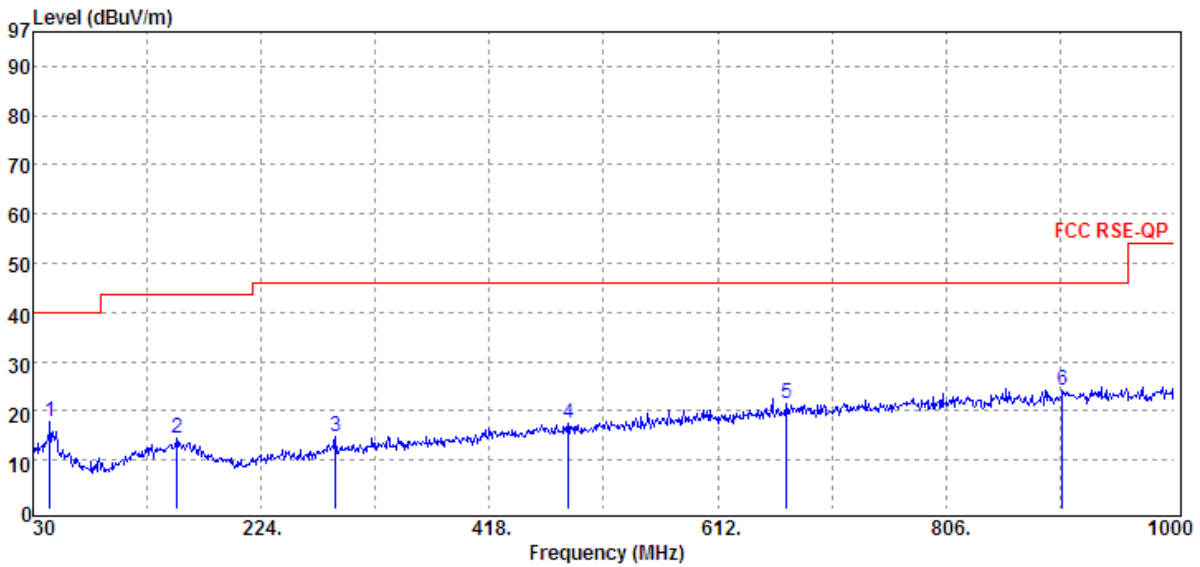
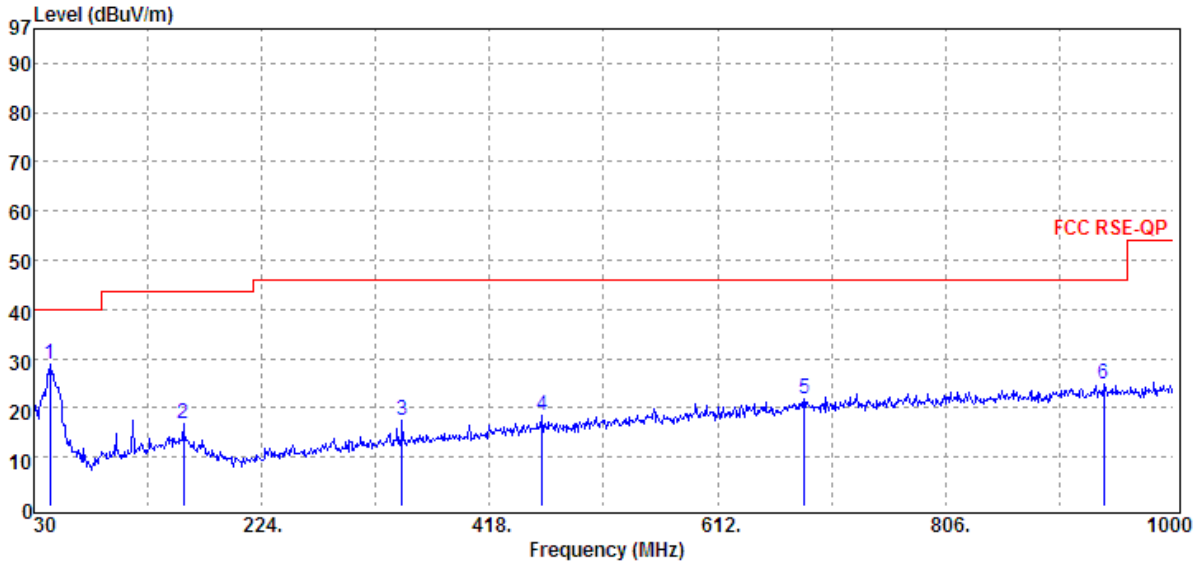
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802.11n_20M 5150-5250MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

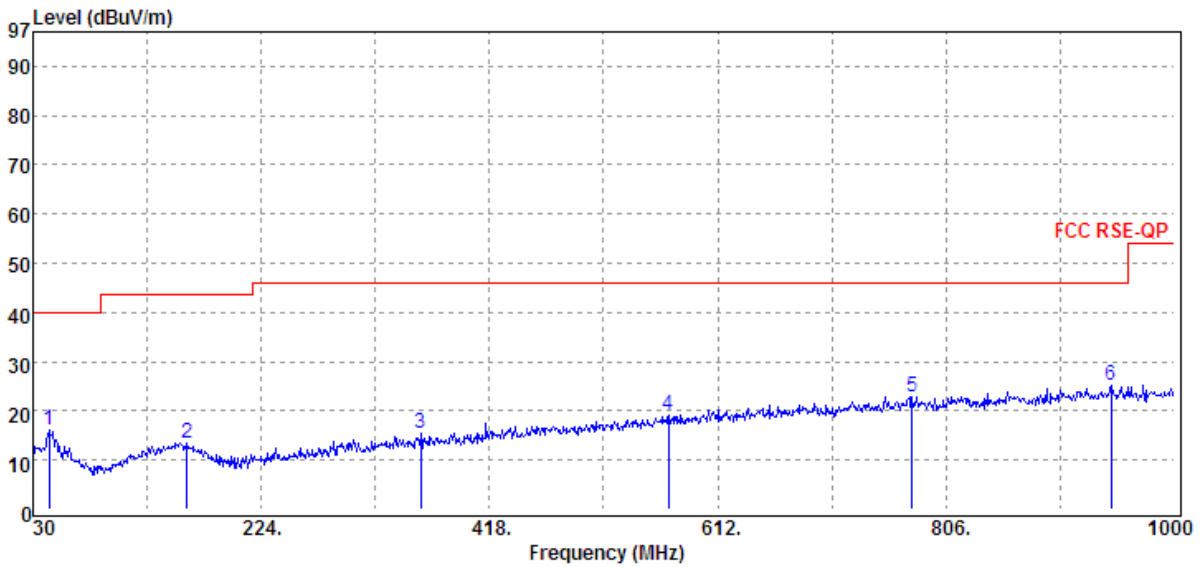
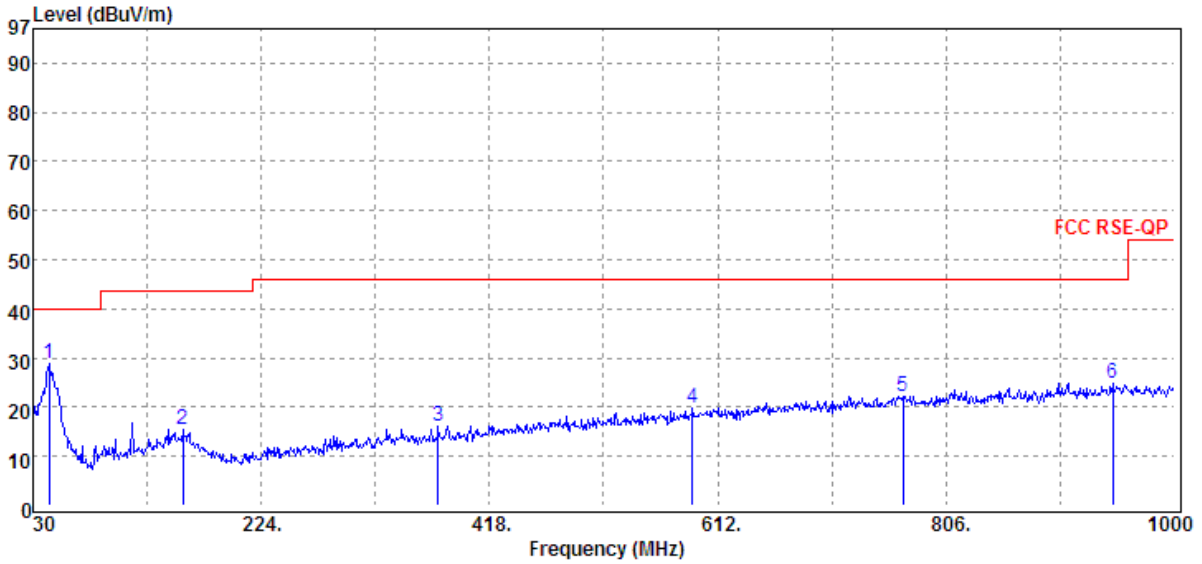


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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

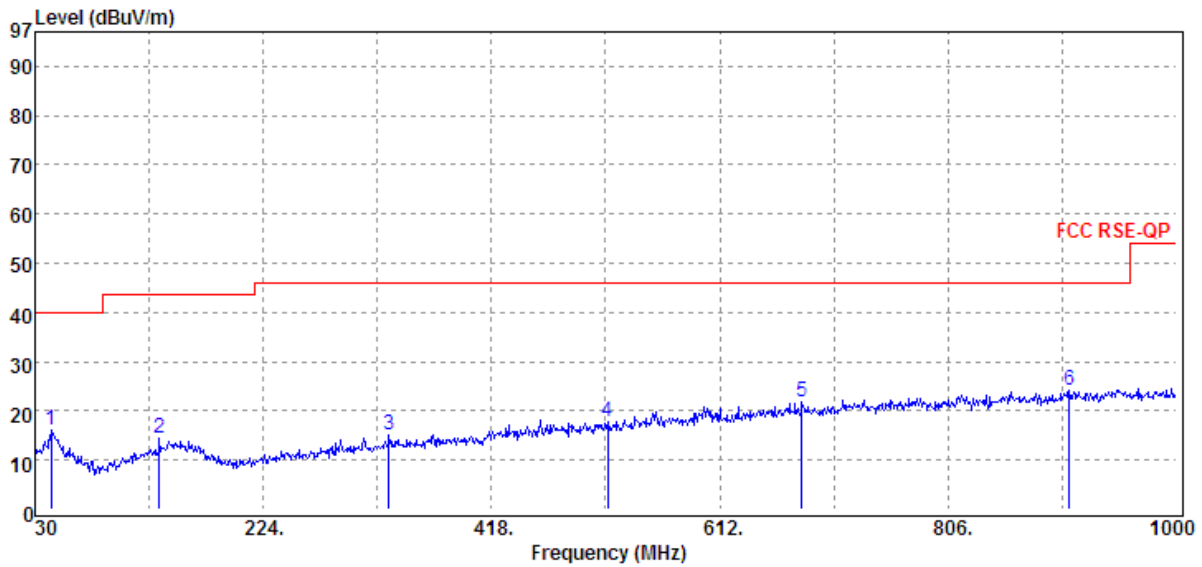
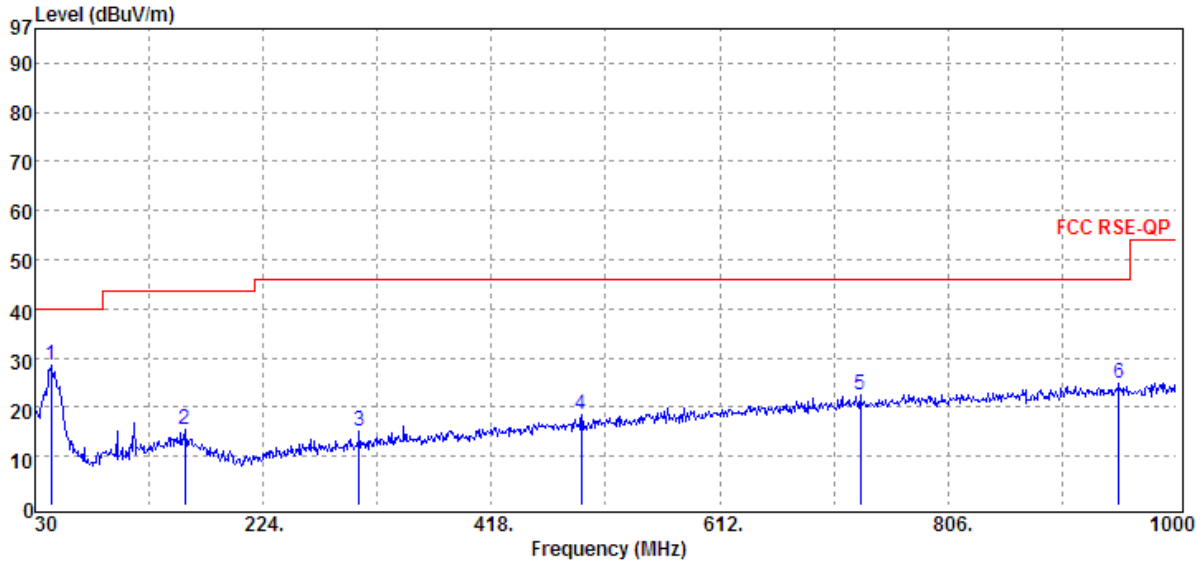


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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

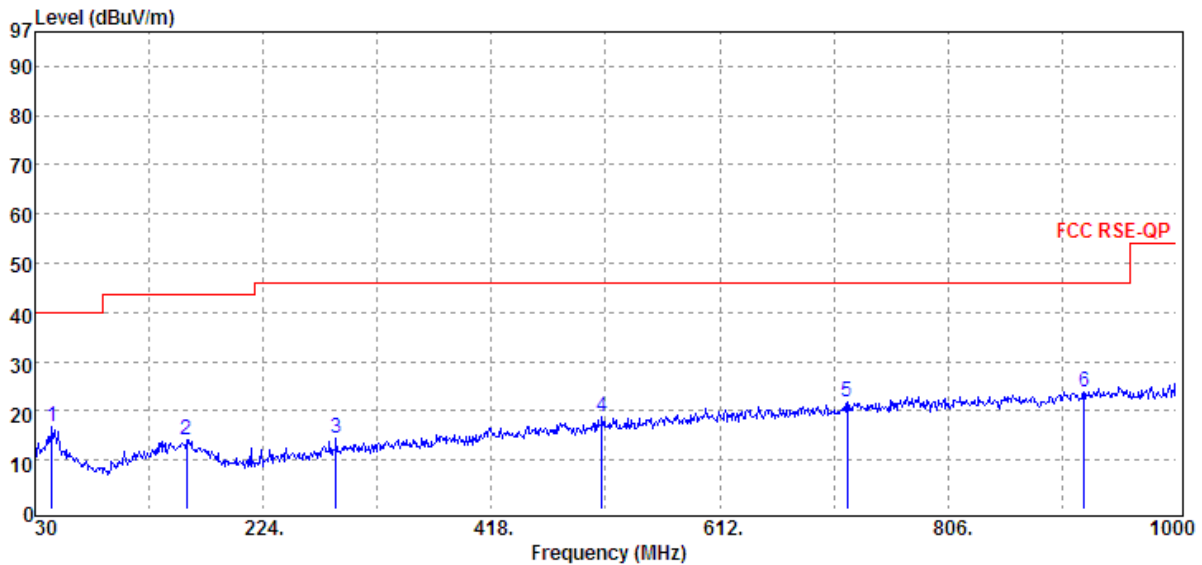
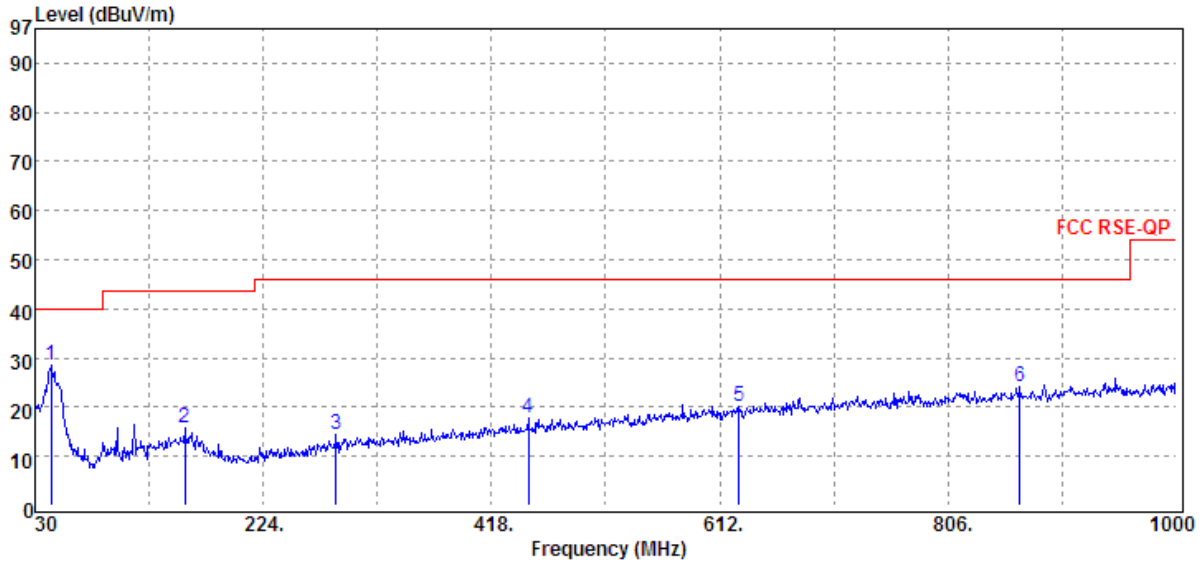


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802.11n_20M 5250-5350MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

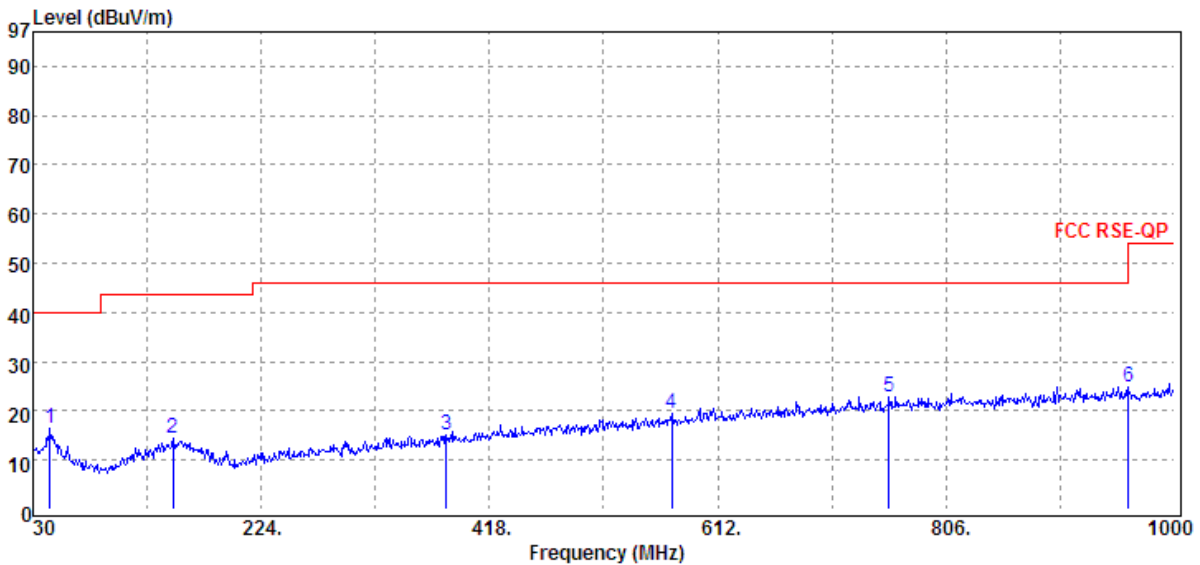
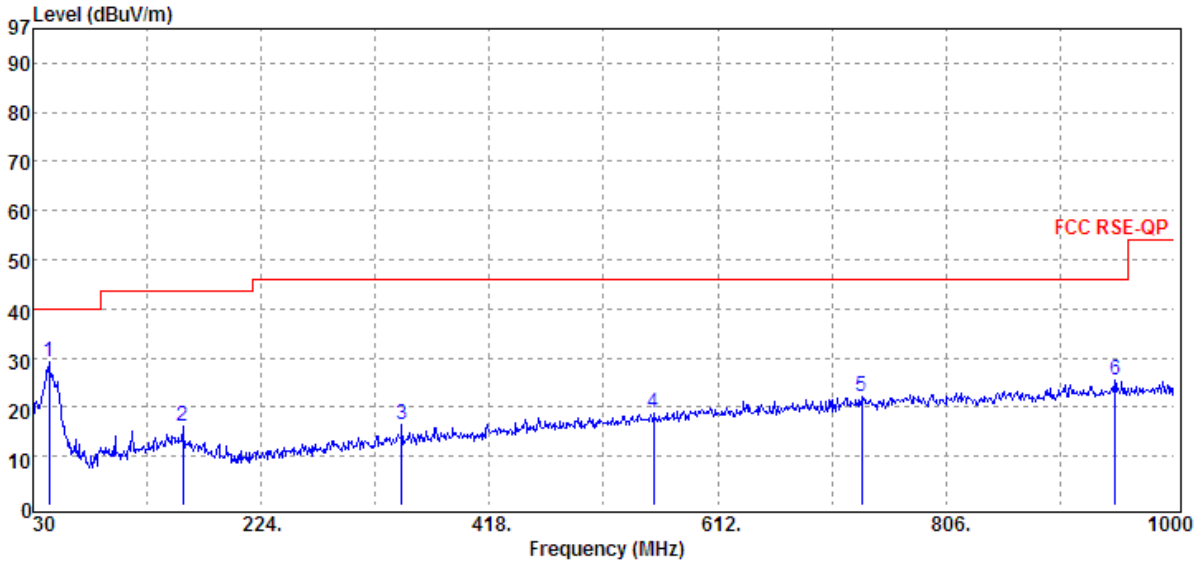


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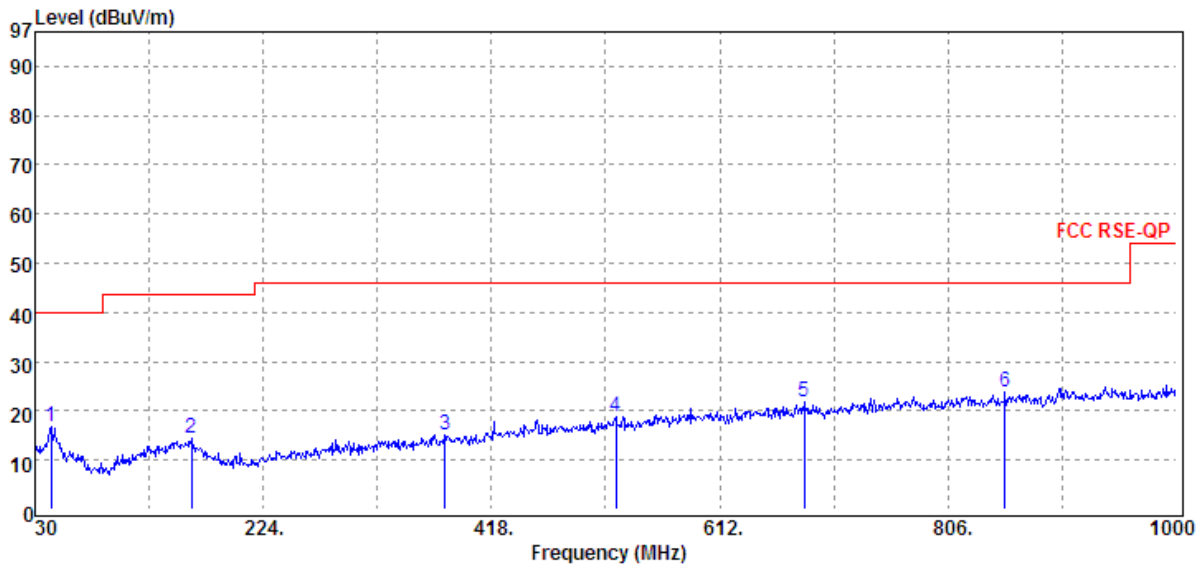
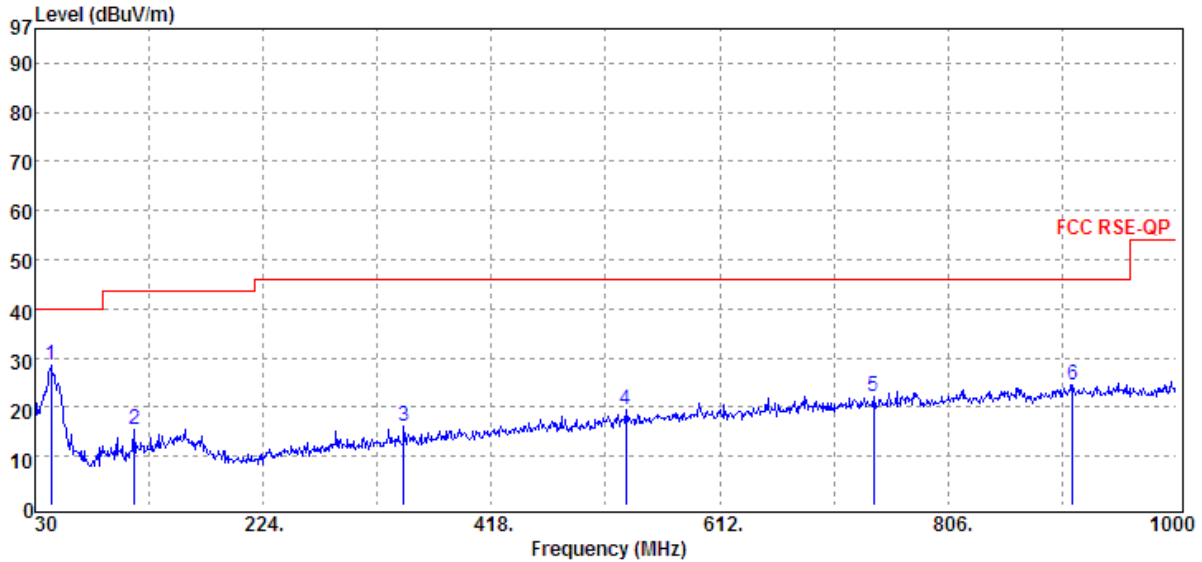
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

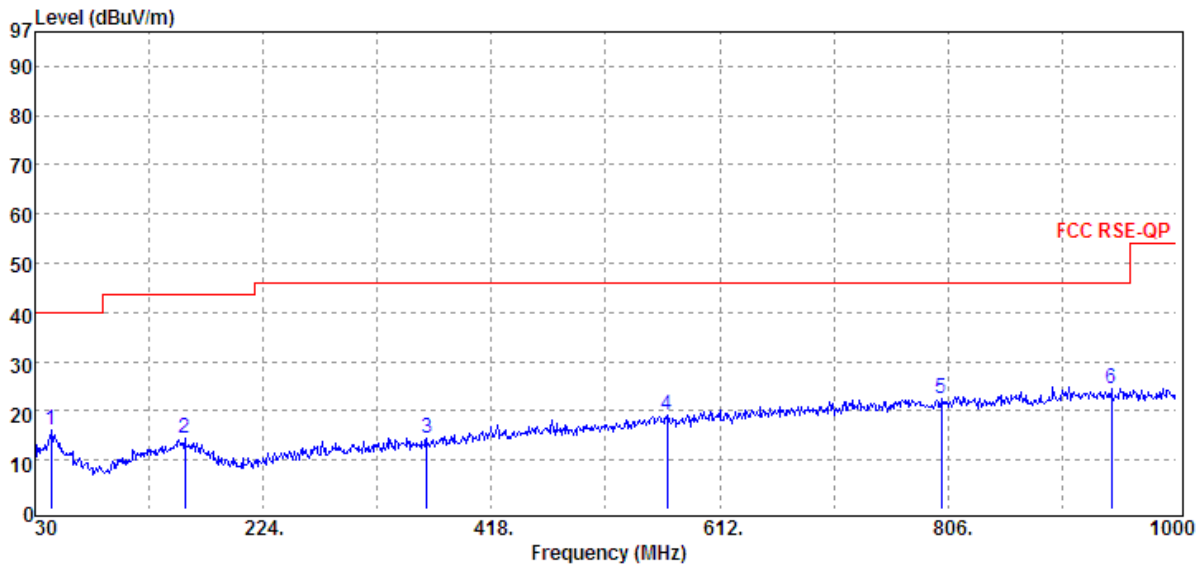
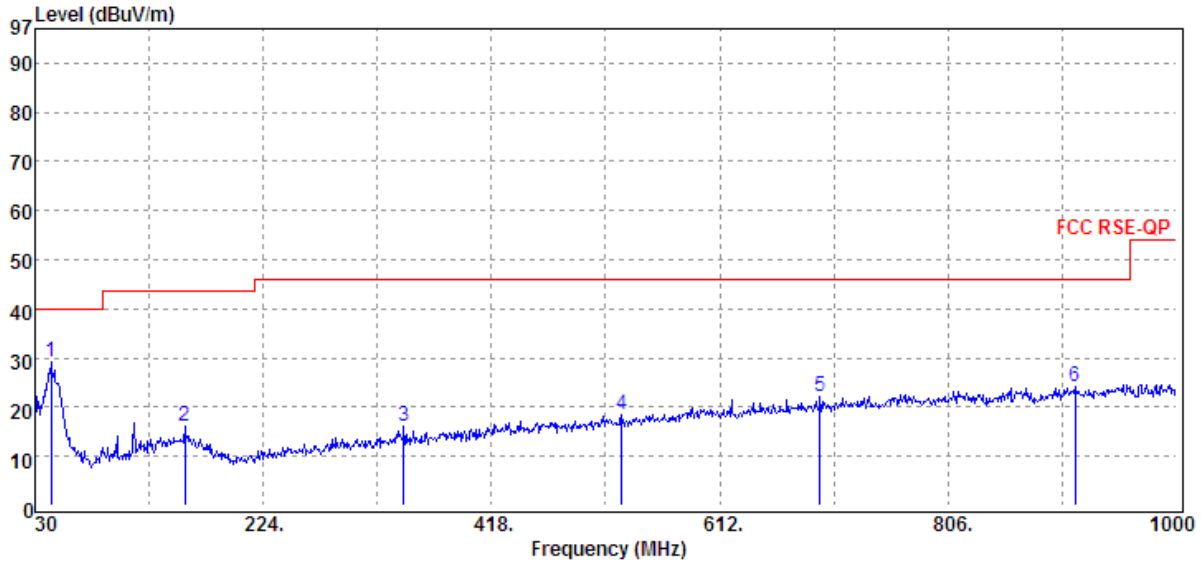


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802.11n_20M 5470-5725MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

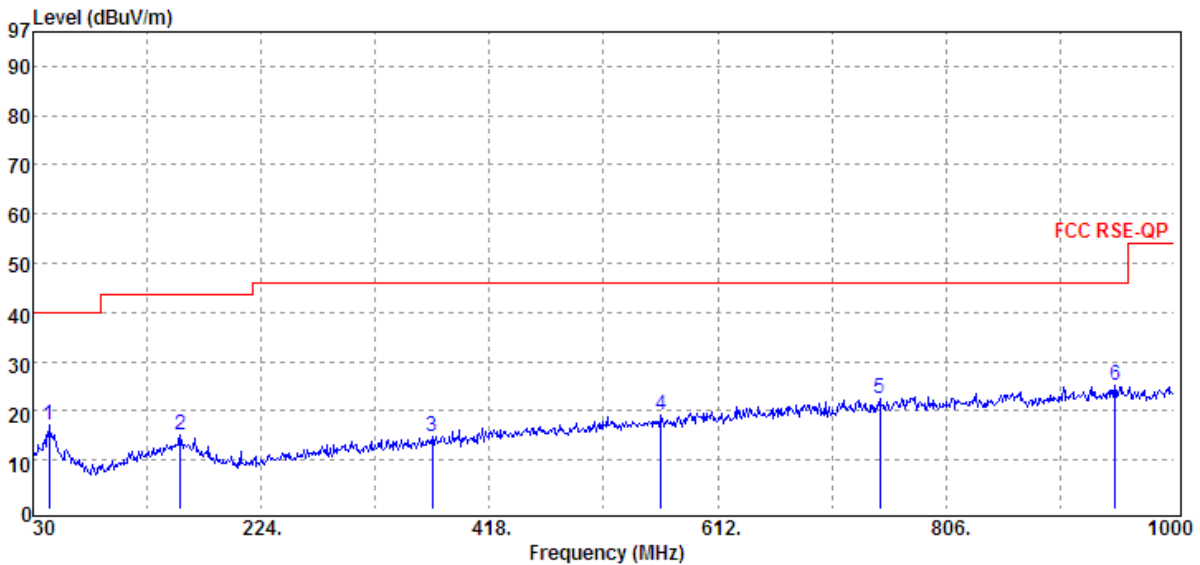
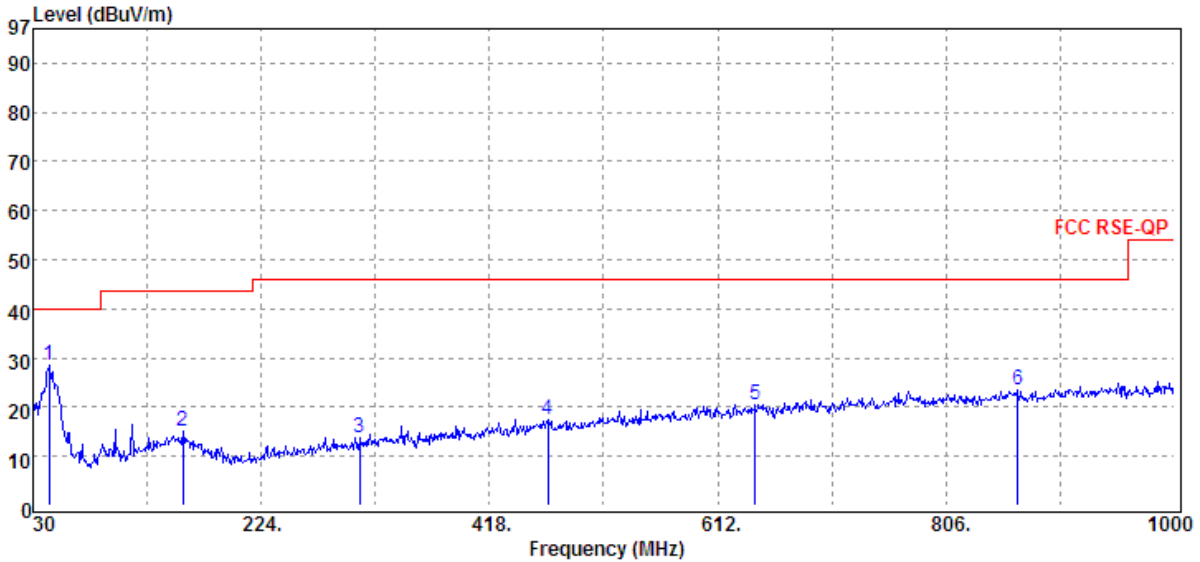


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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

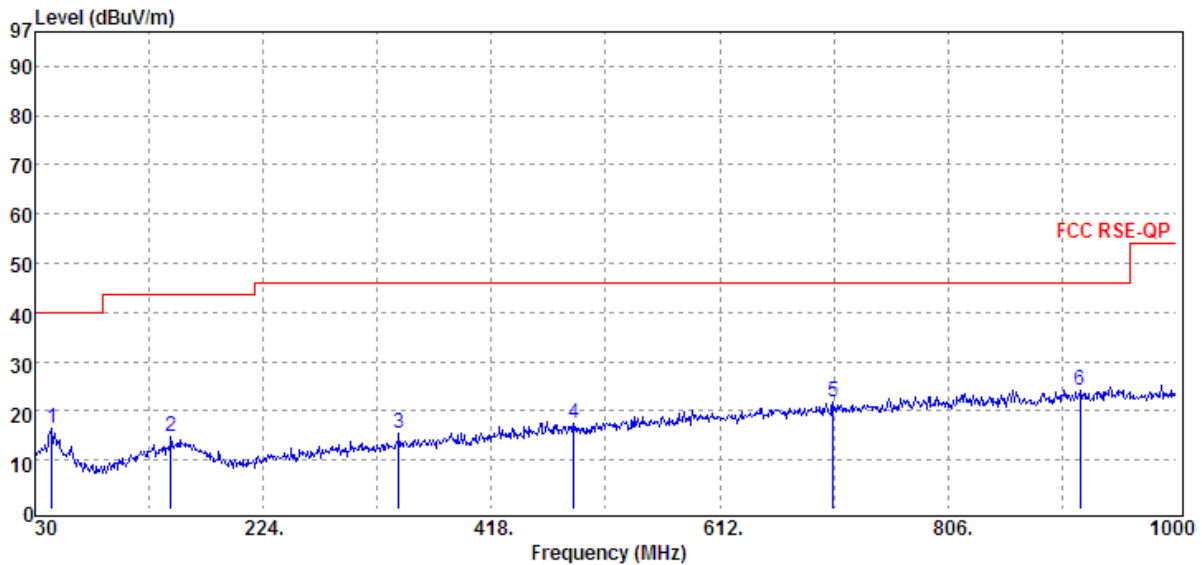
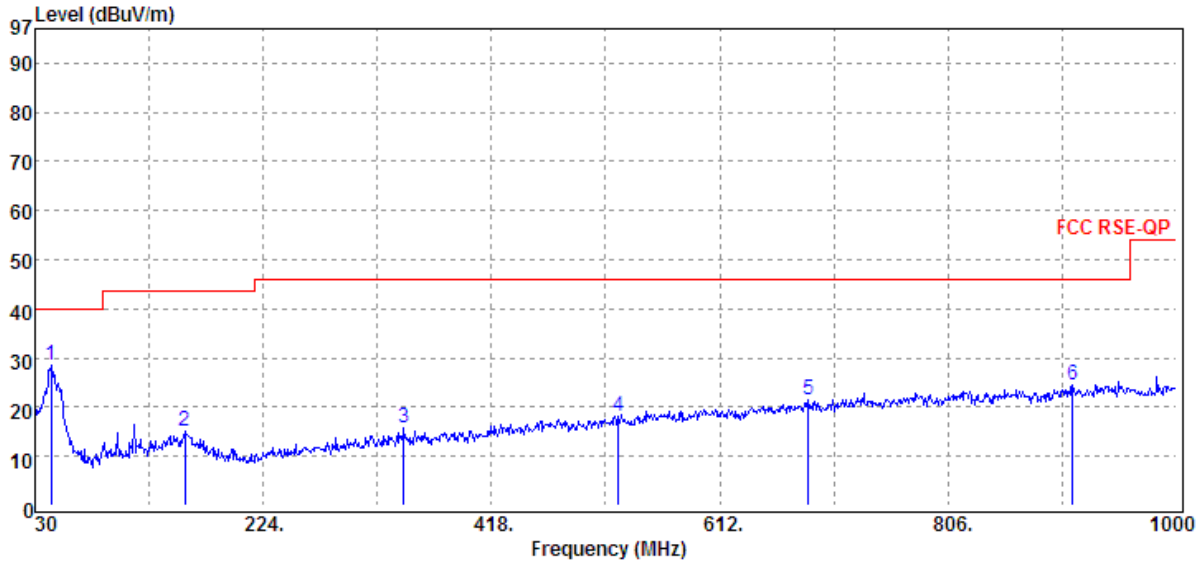


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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



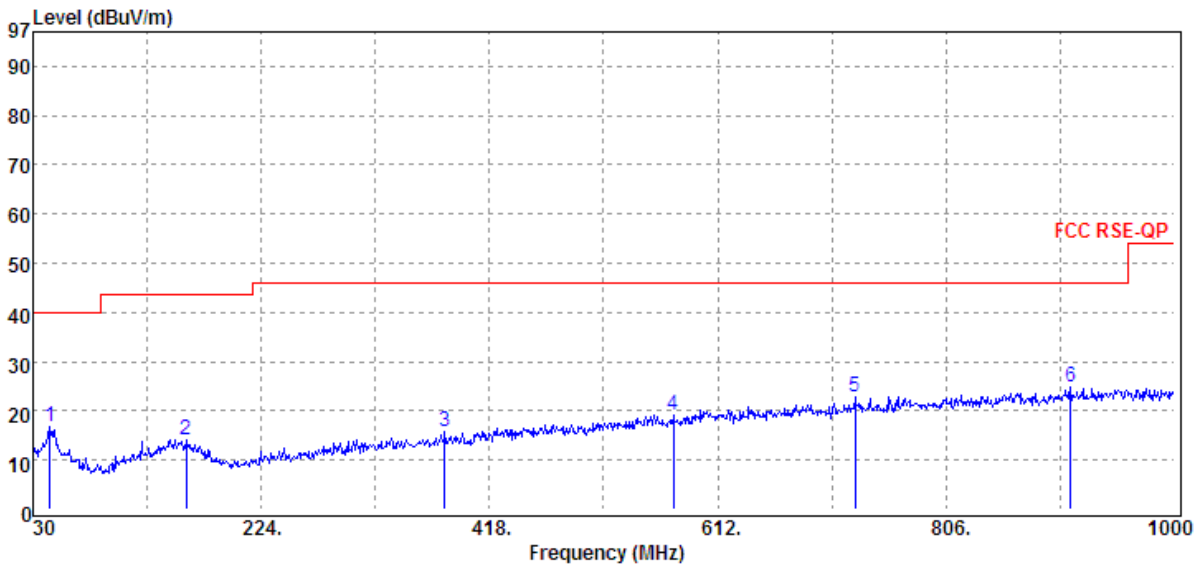
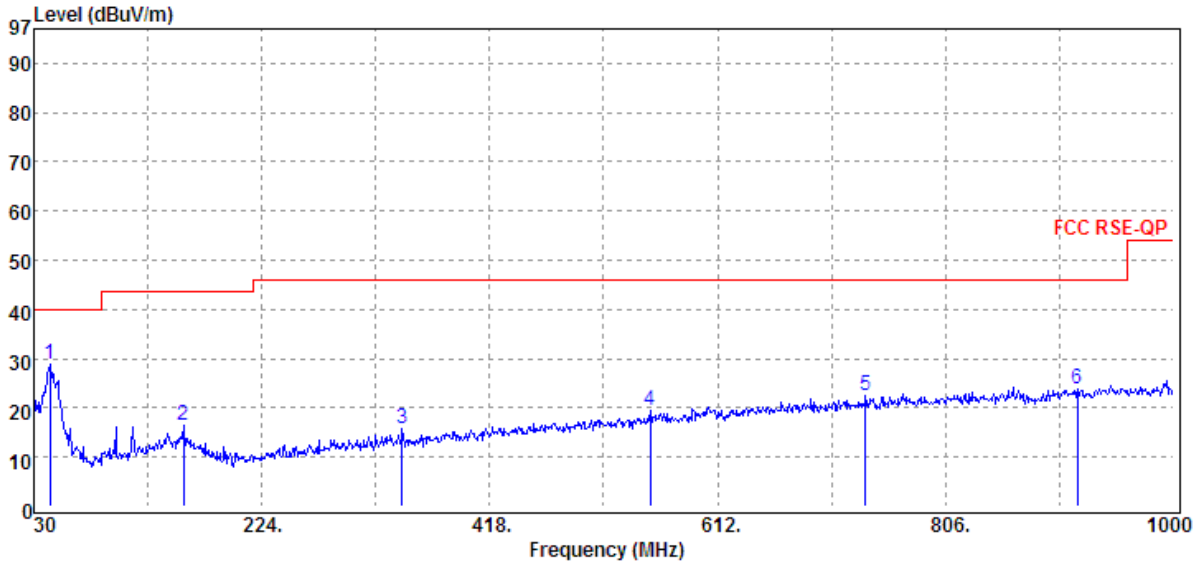
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802.11n_40M 5150-5250MHz

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

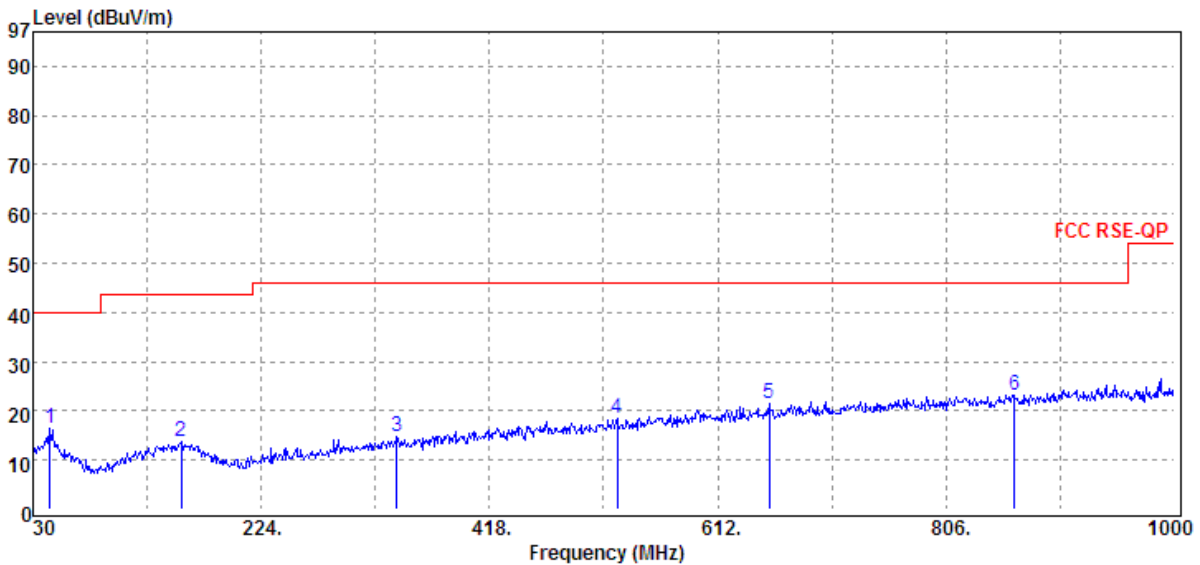
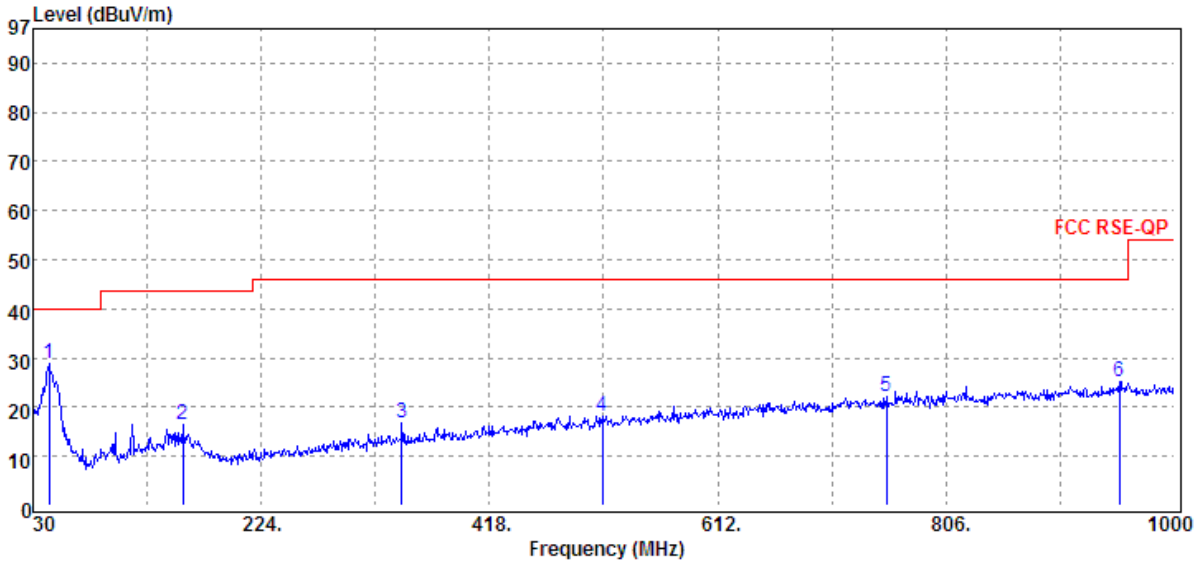


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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

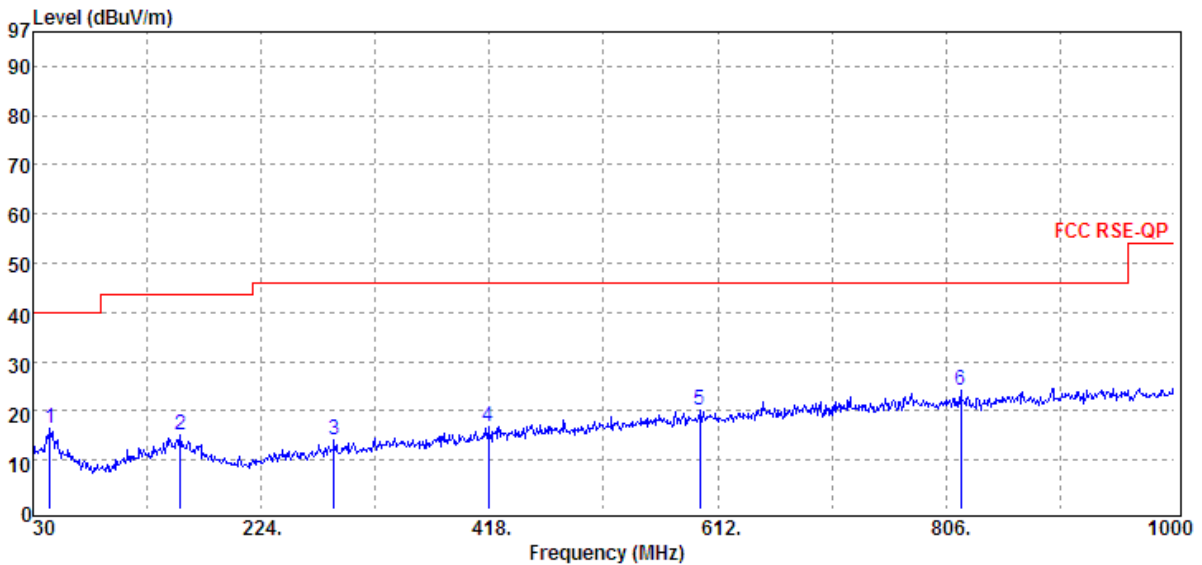
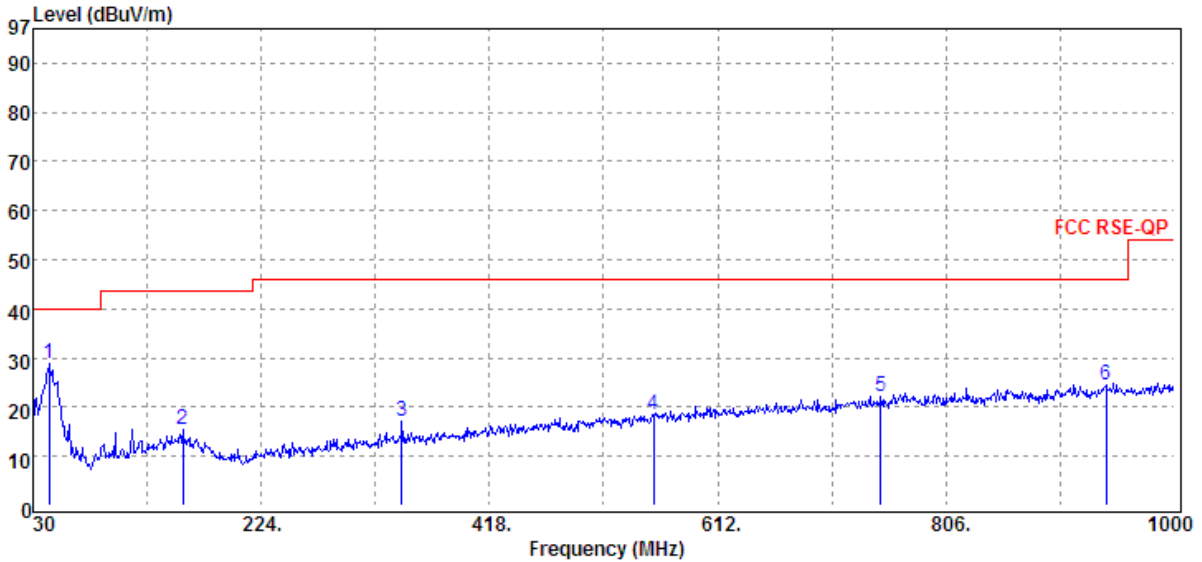


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802.11n_40M 5250-5350MHz

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

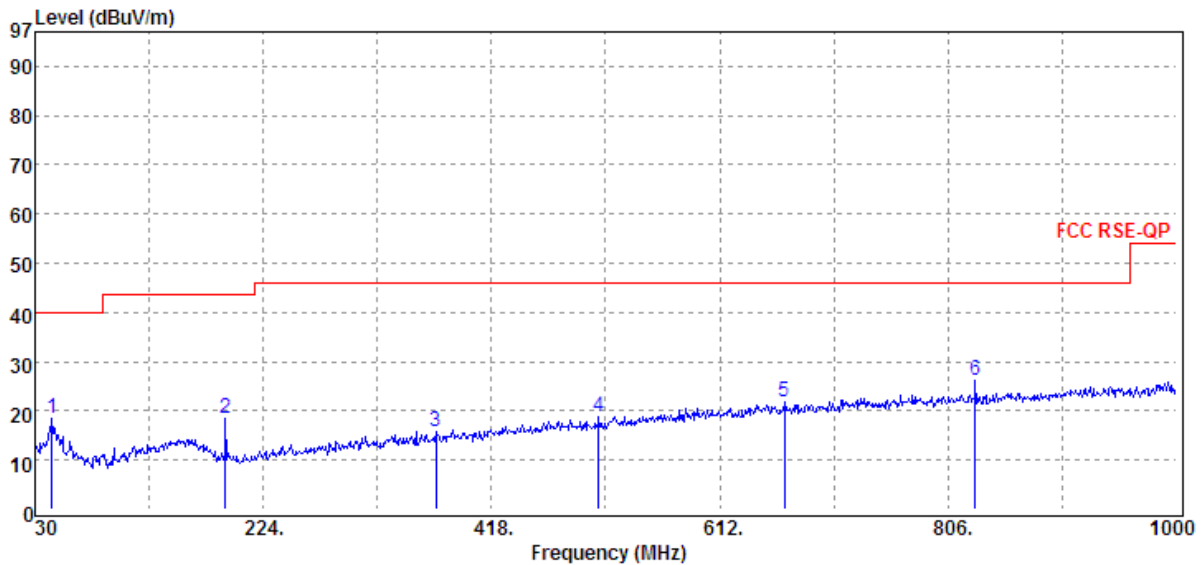
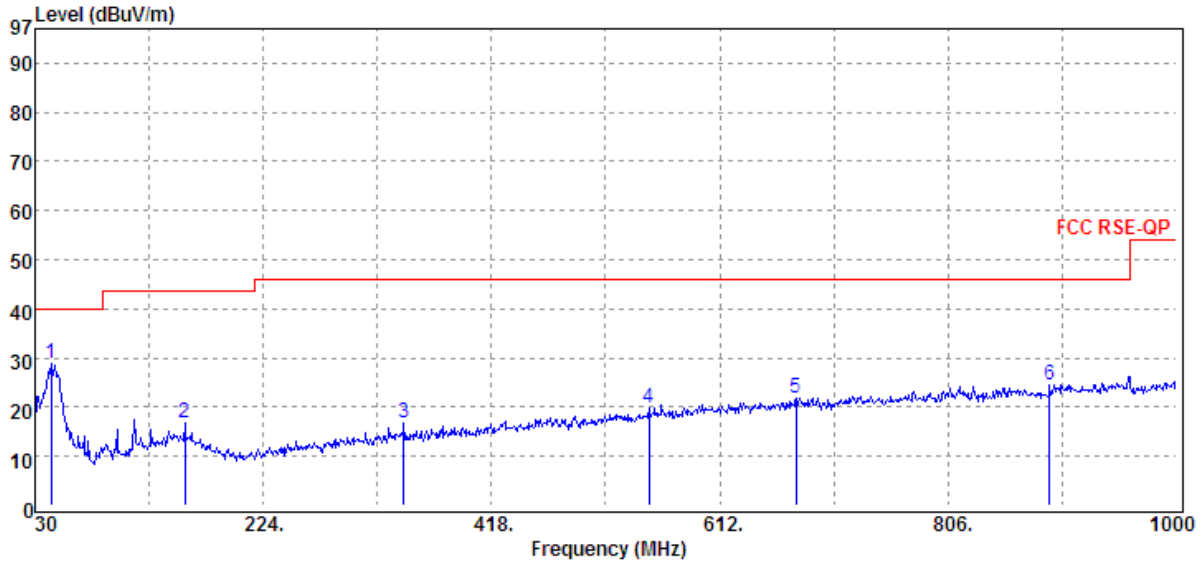


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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

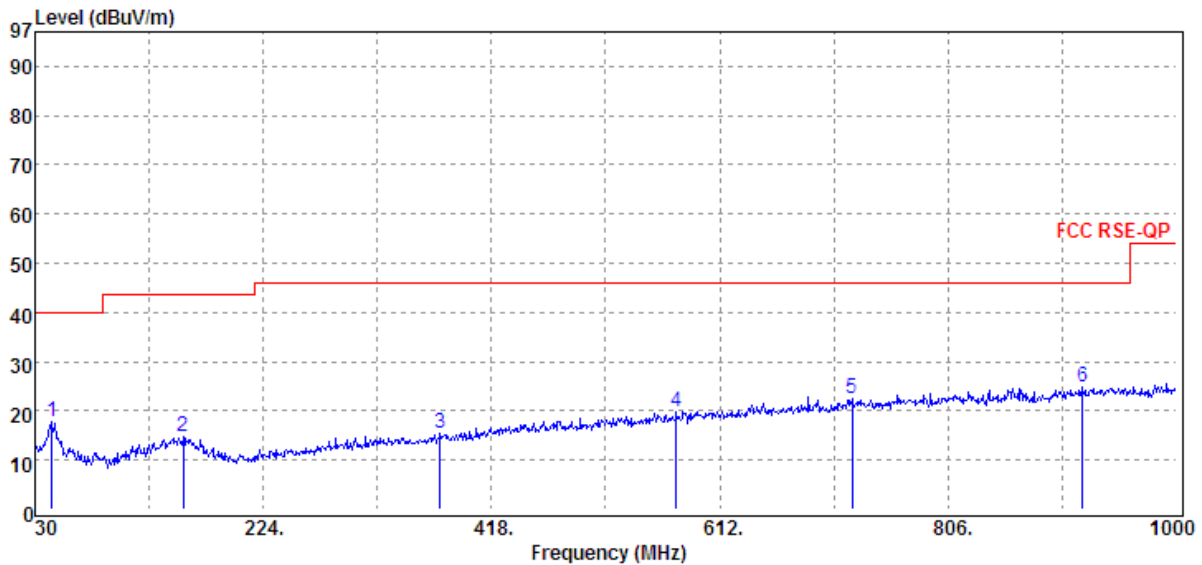
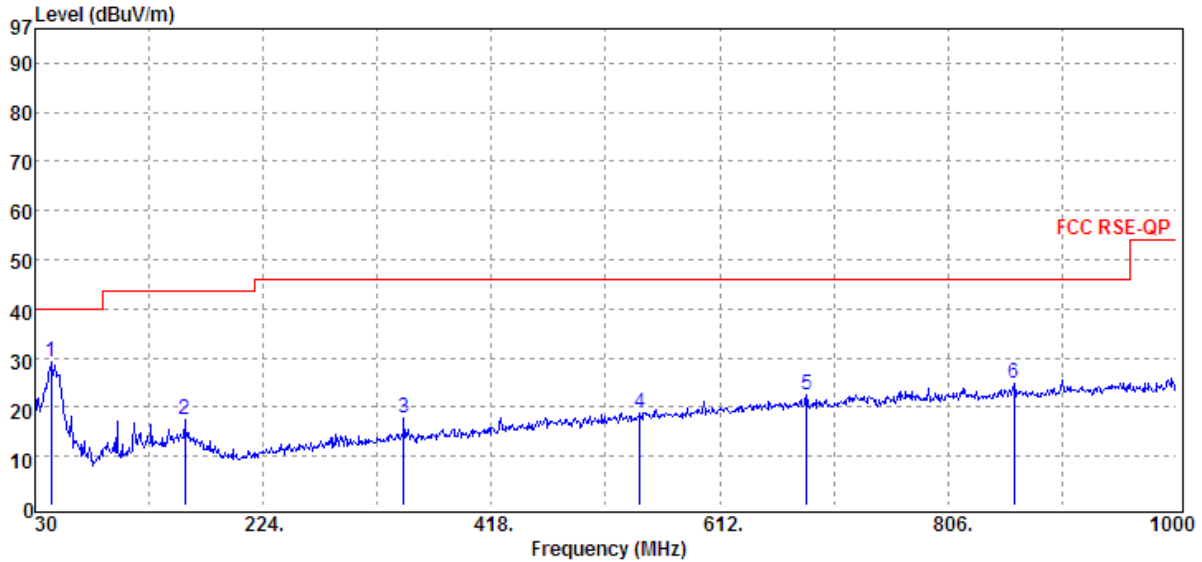


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802.11n_40M 5470-5725MHz

Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

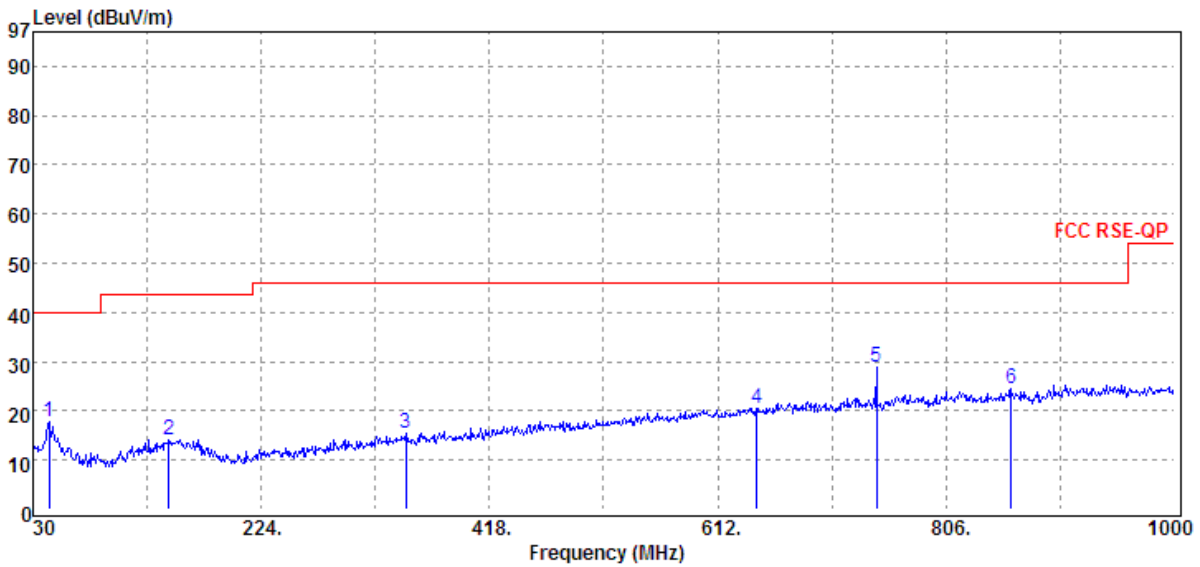
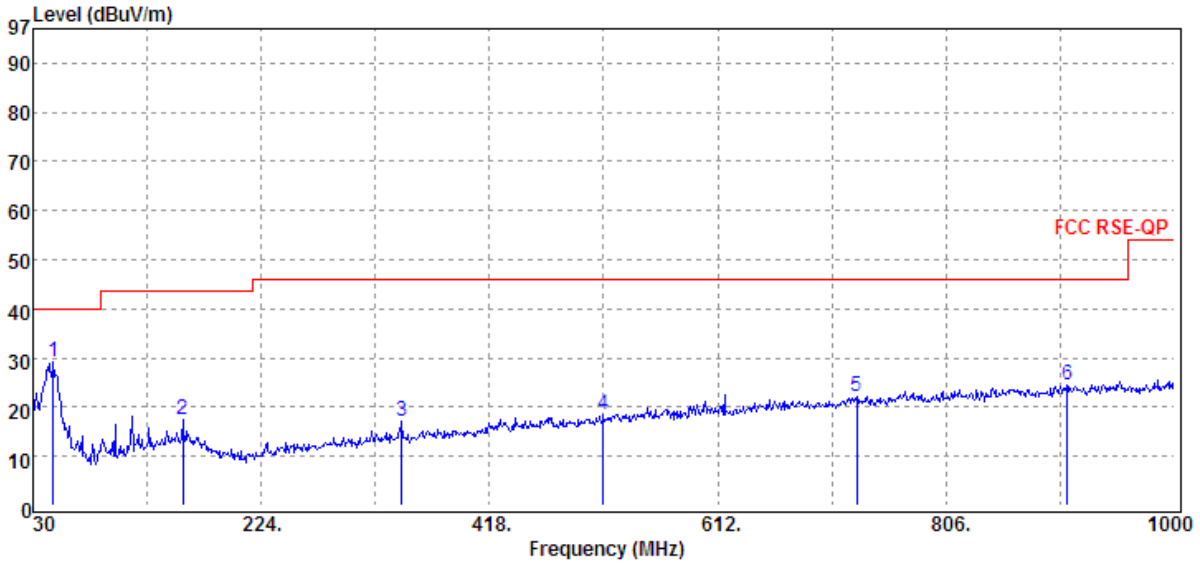


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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.

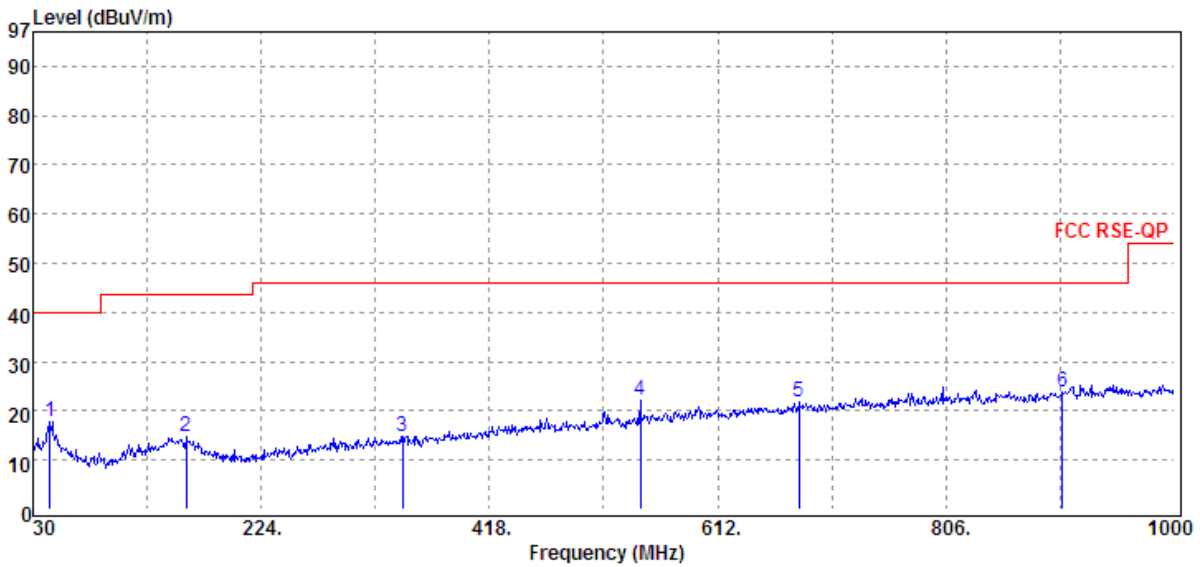
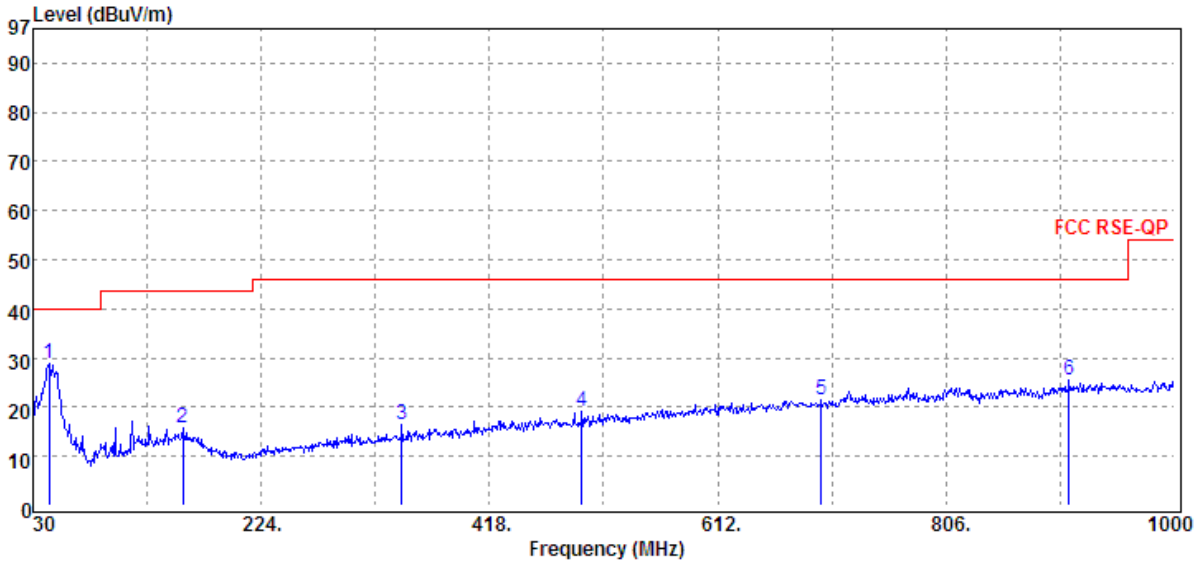


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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	: H Plan	Measurement Antenna Pol.	:Ver. / Hor.



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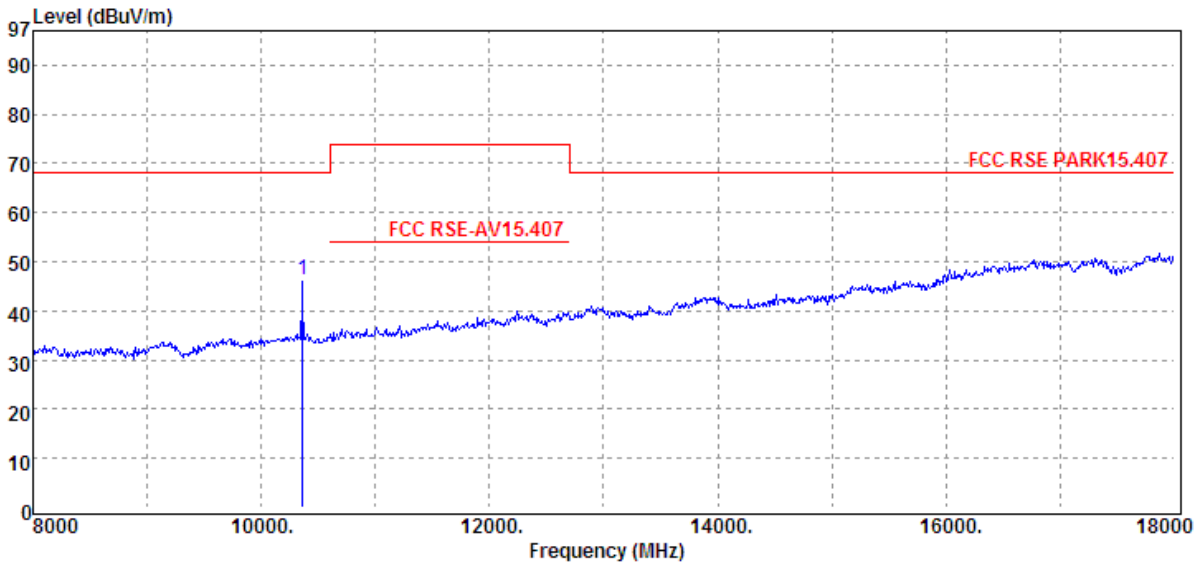
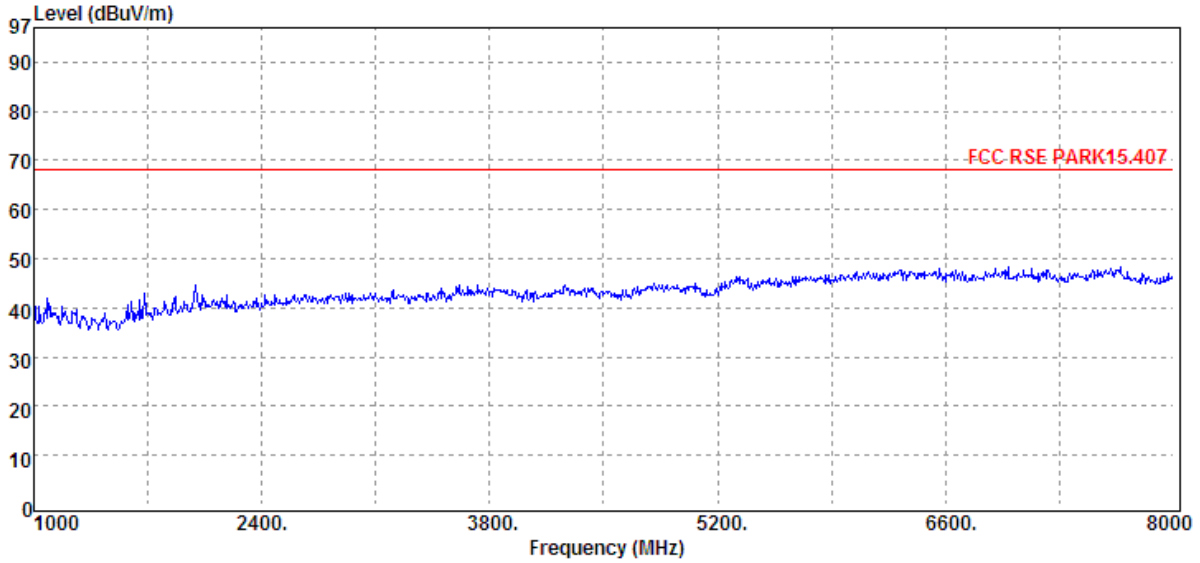
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Radiated Spurious Emission Measurement photos Result (above 1GHz)

802.11a 5150-5250MHz

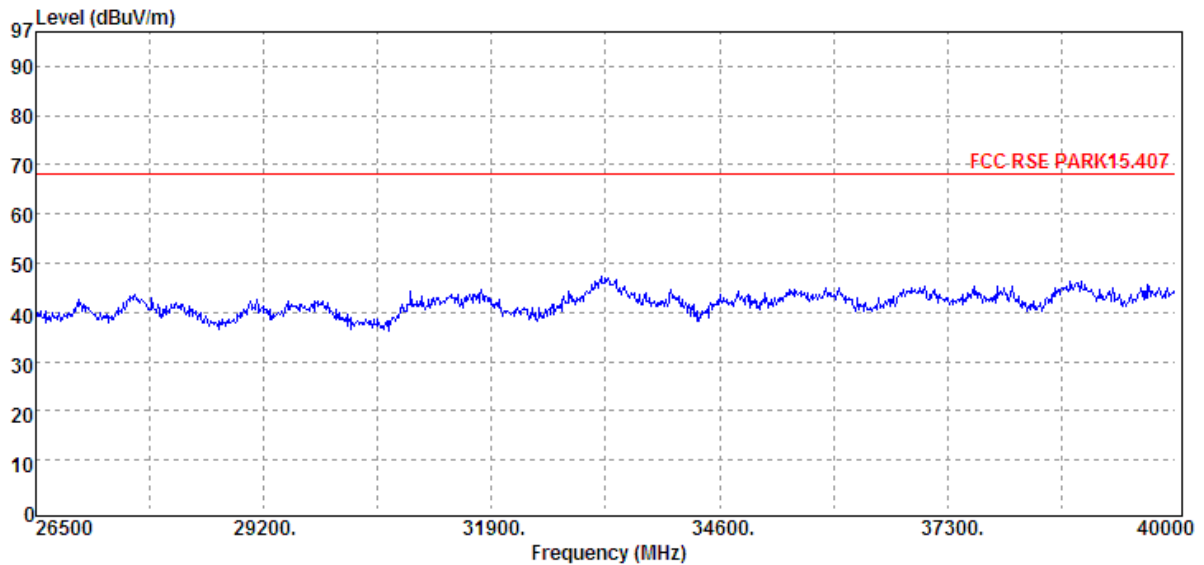
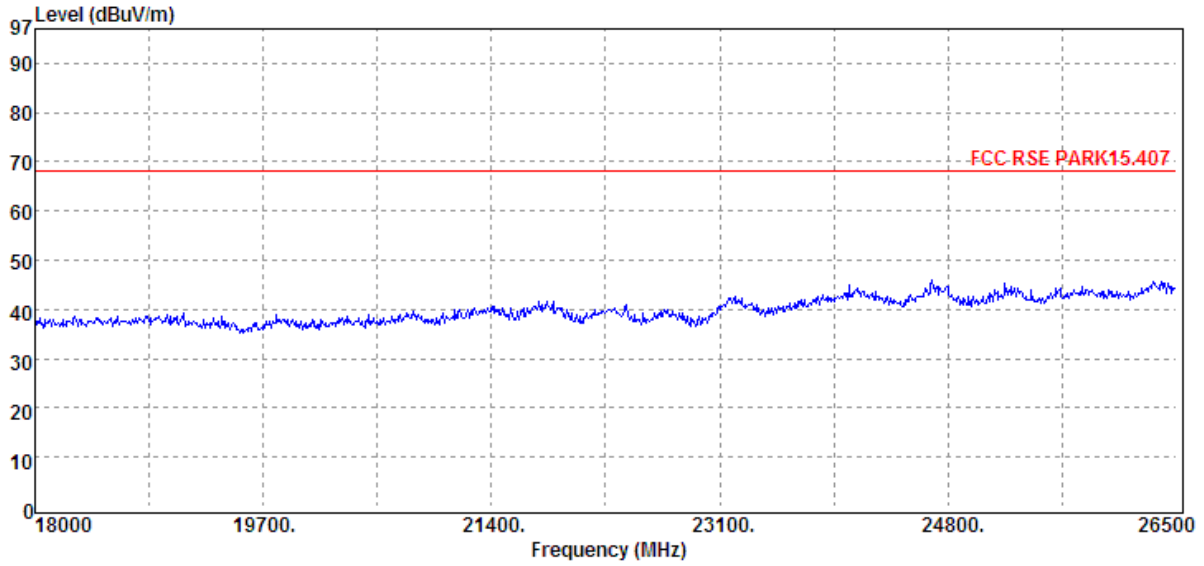
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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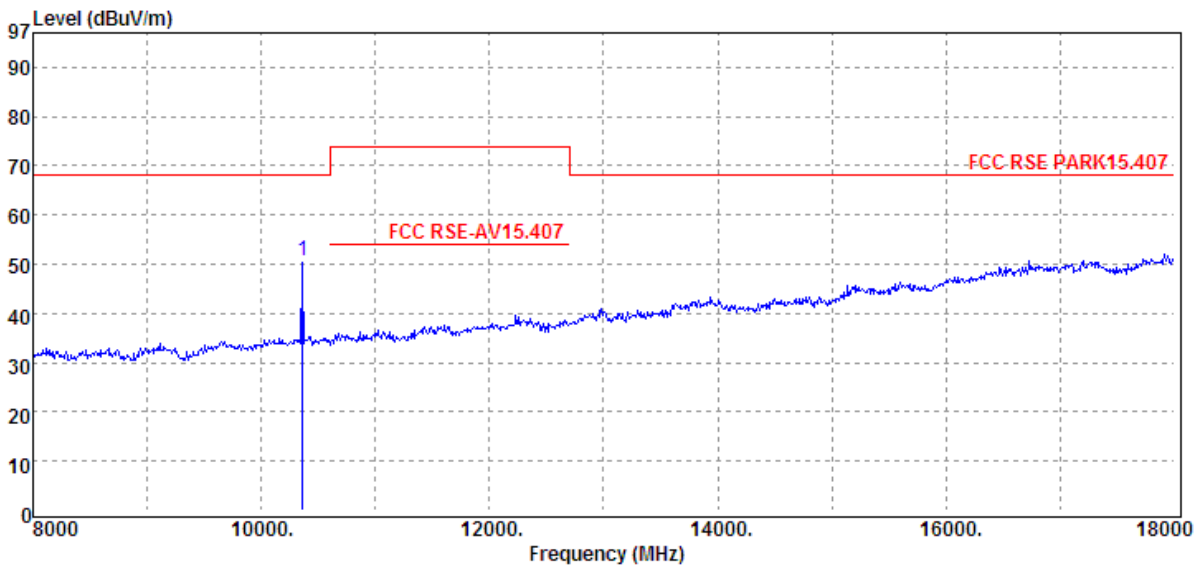
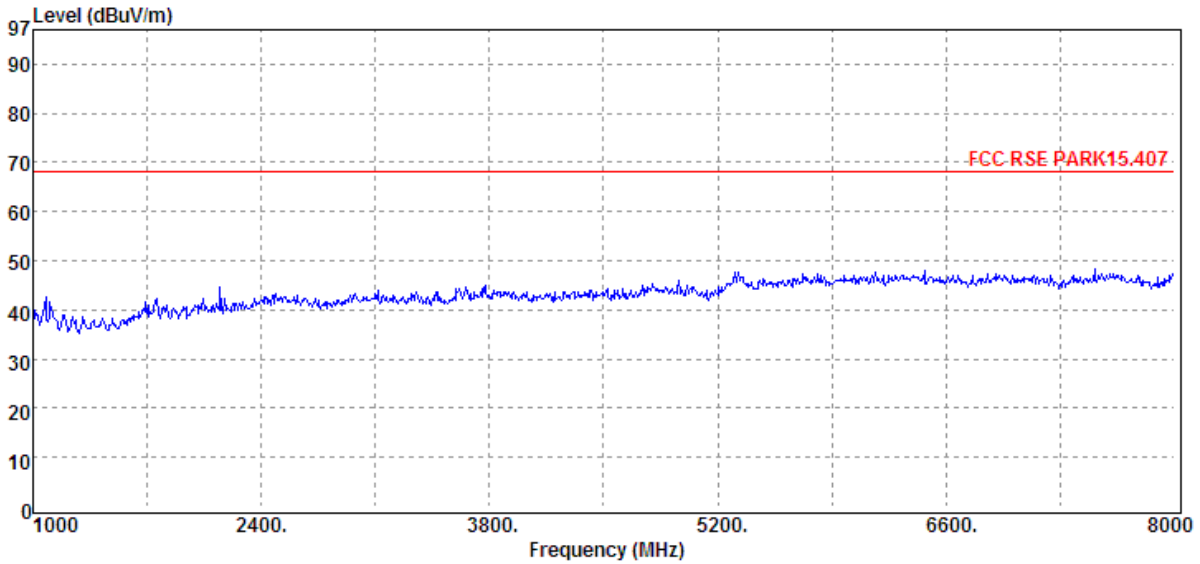


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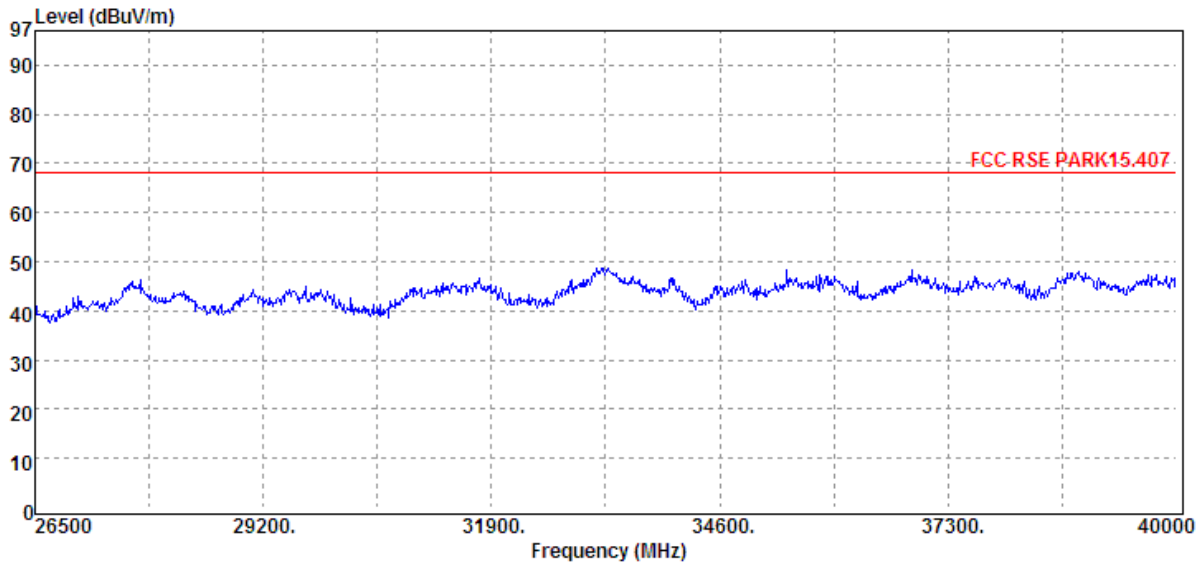
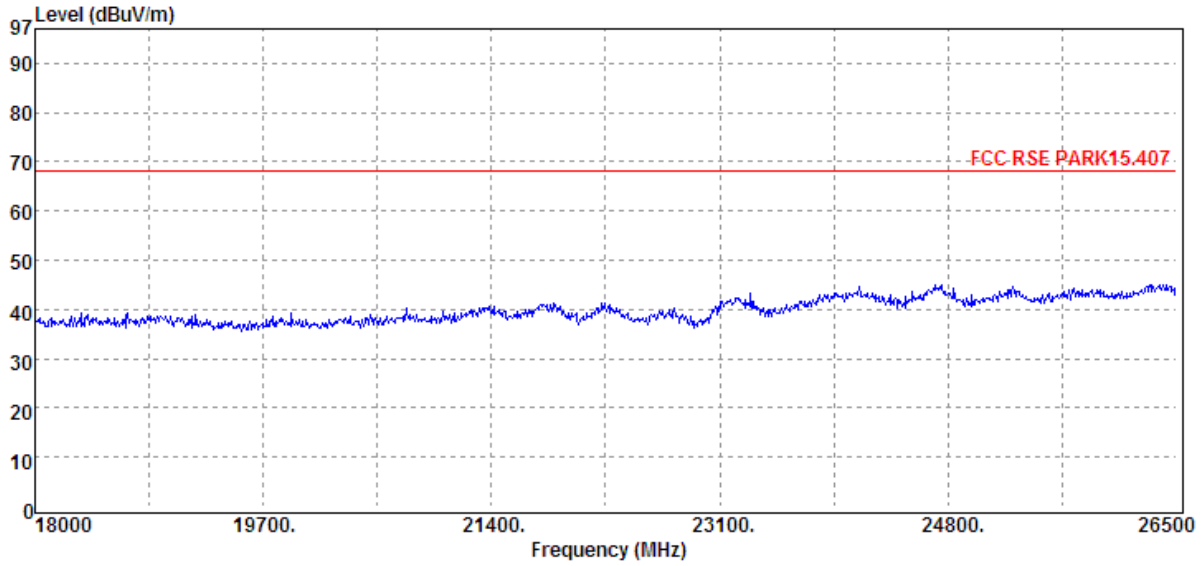
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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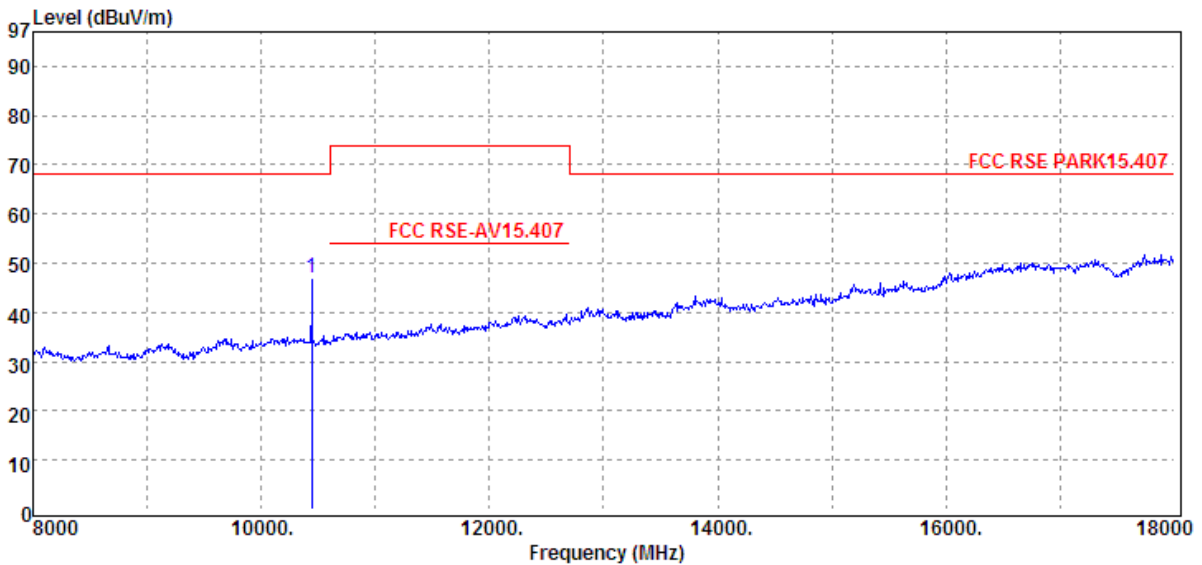
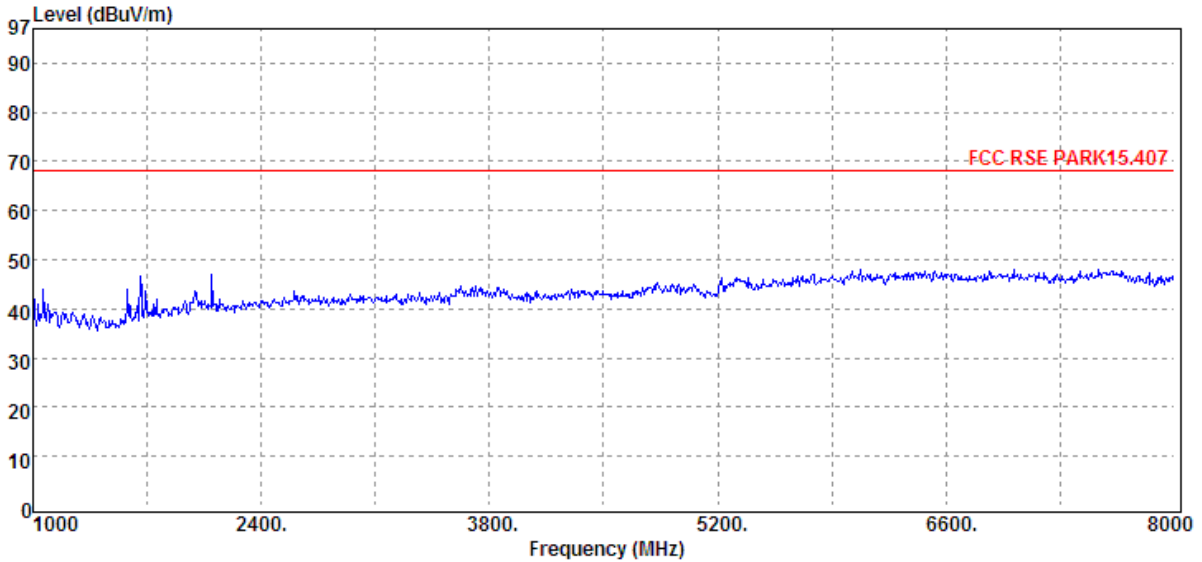


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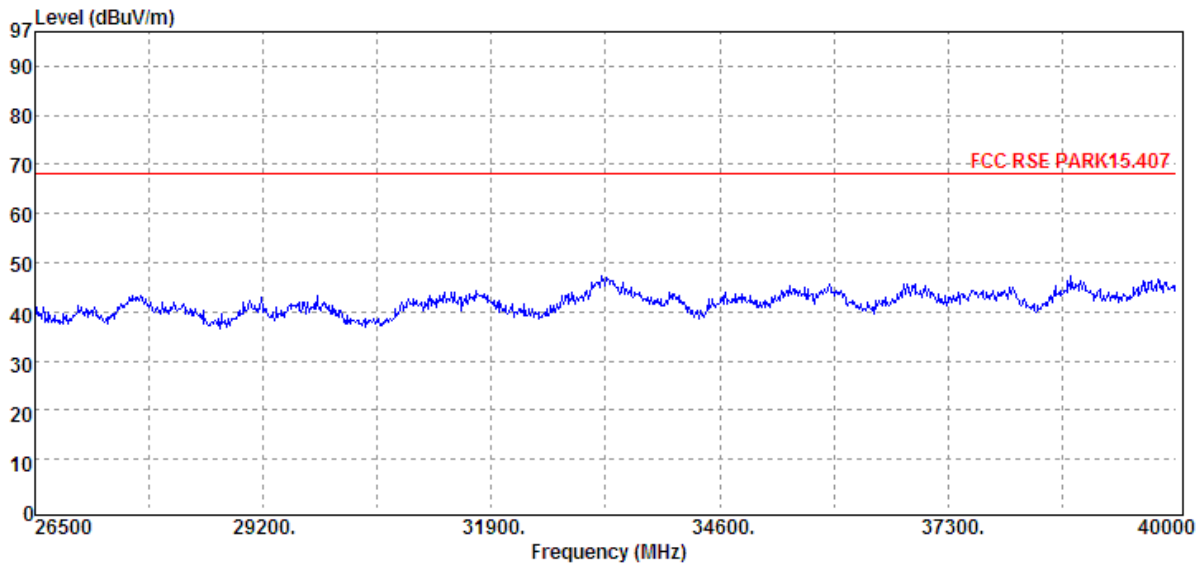
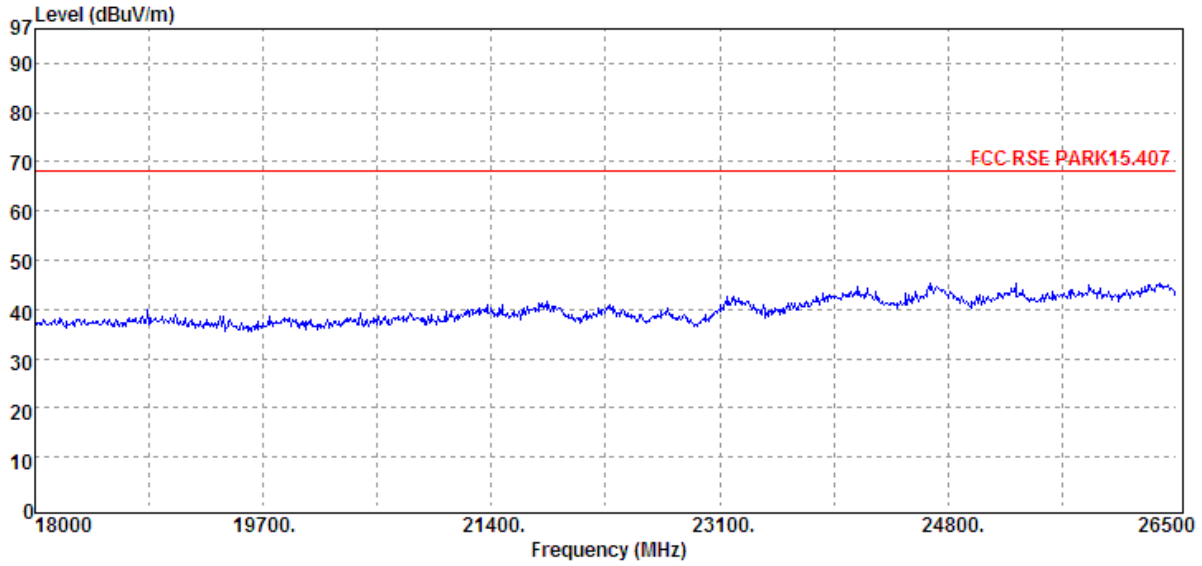
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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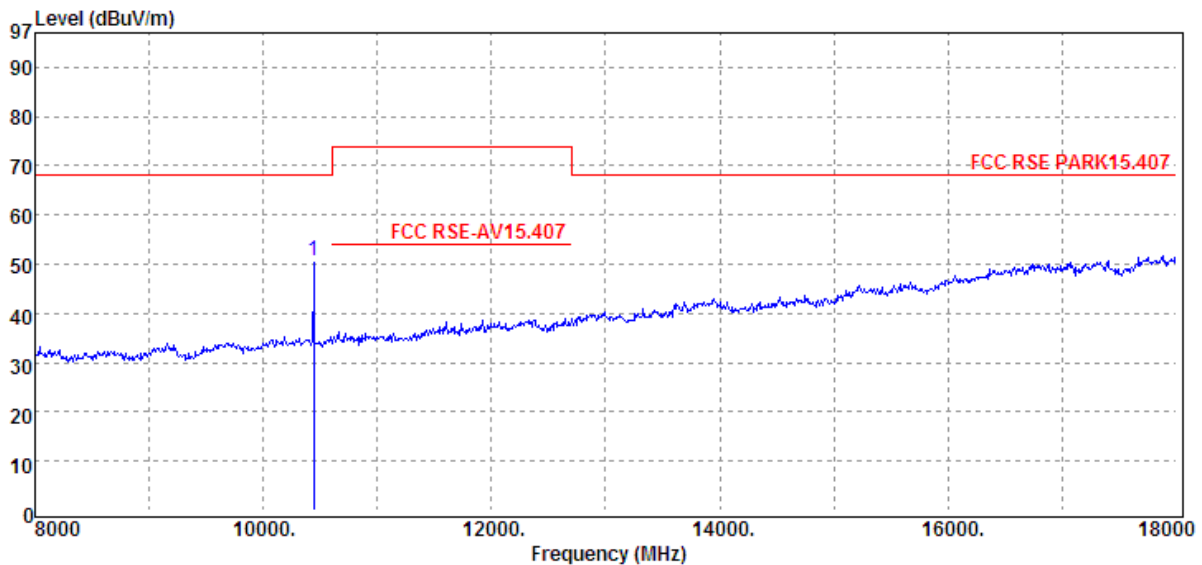
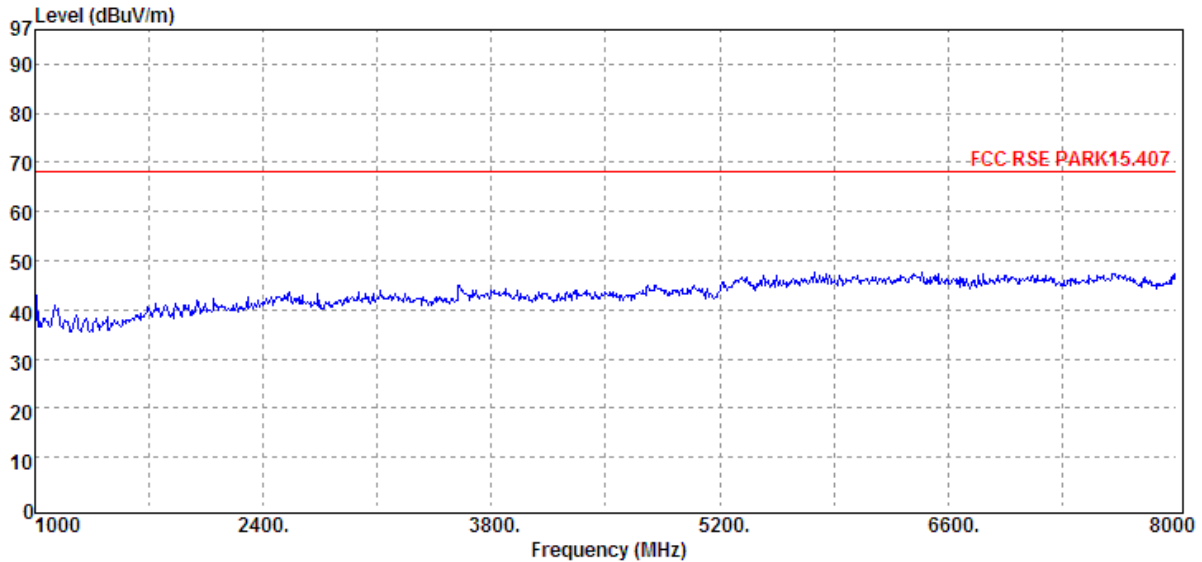


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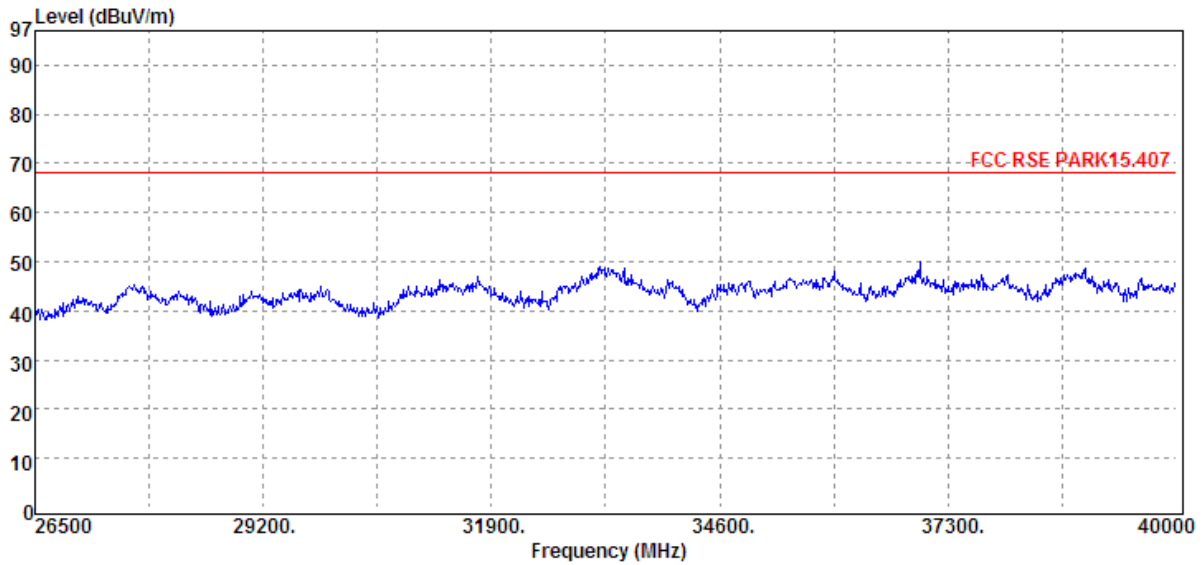
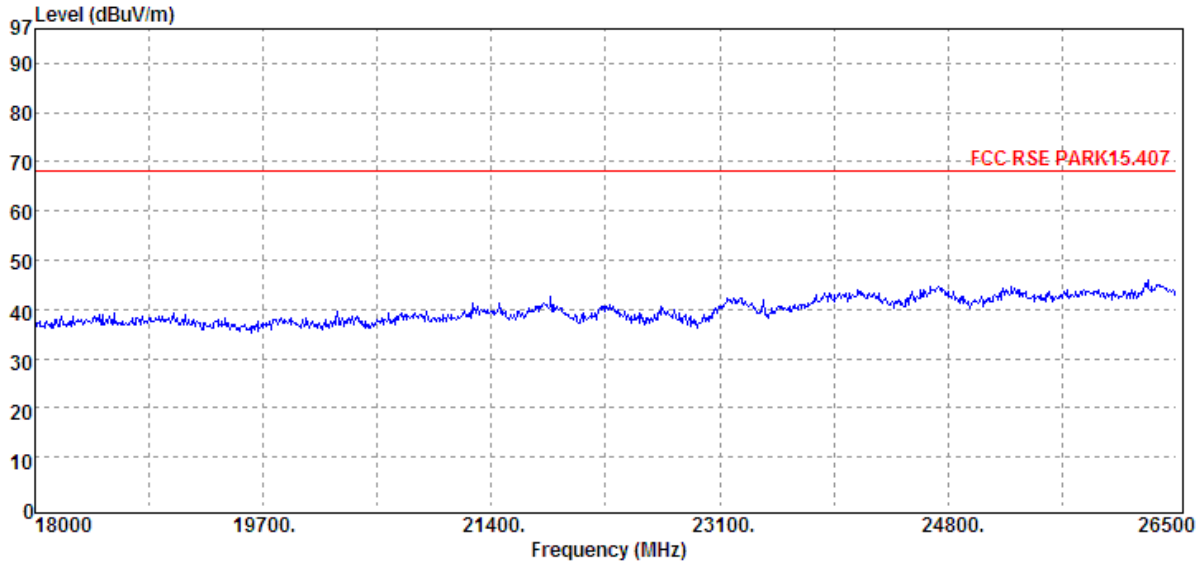
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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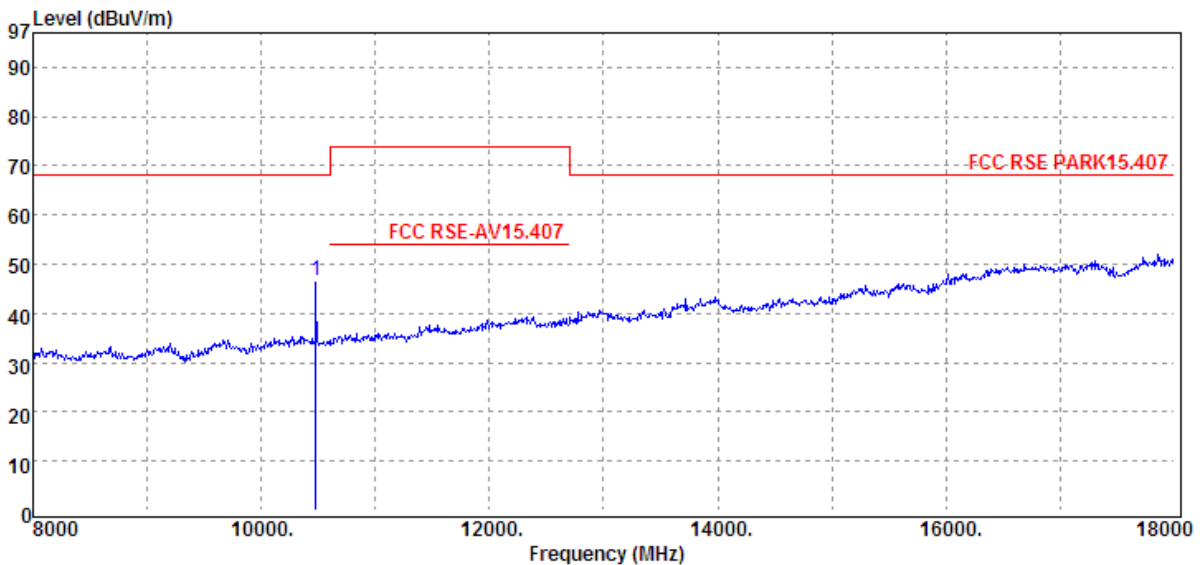
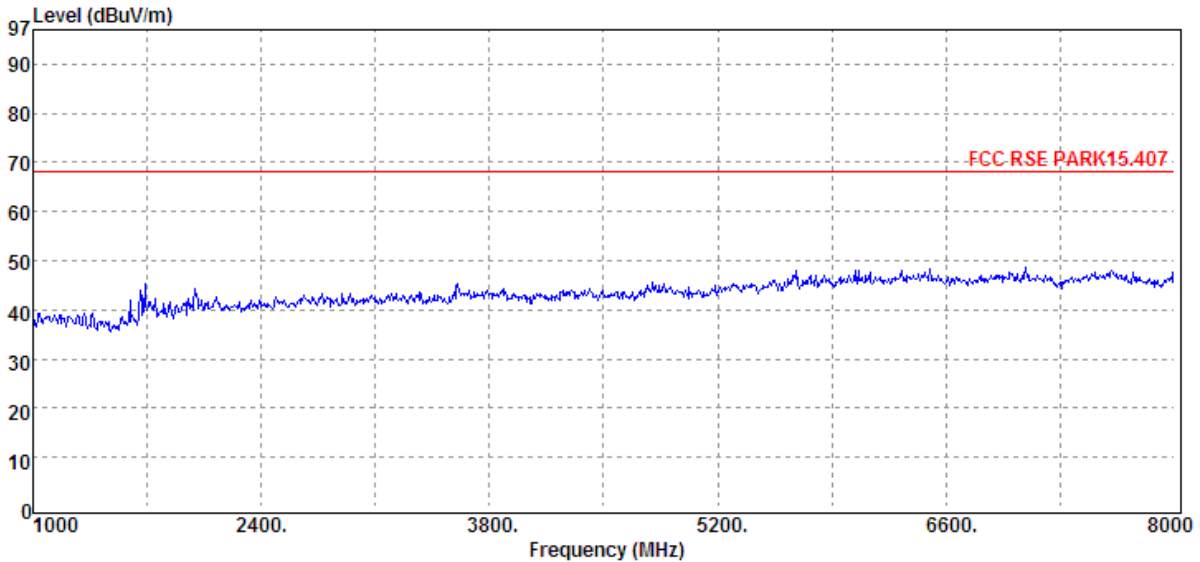


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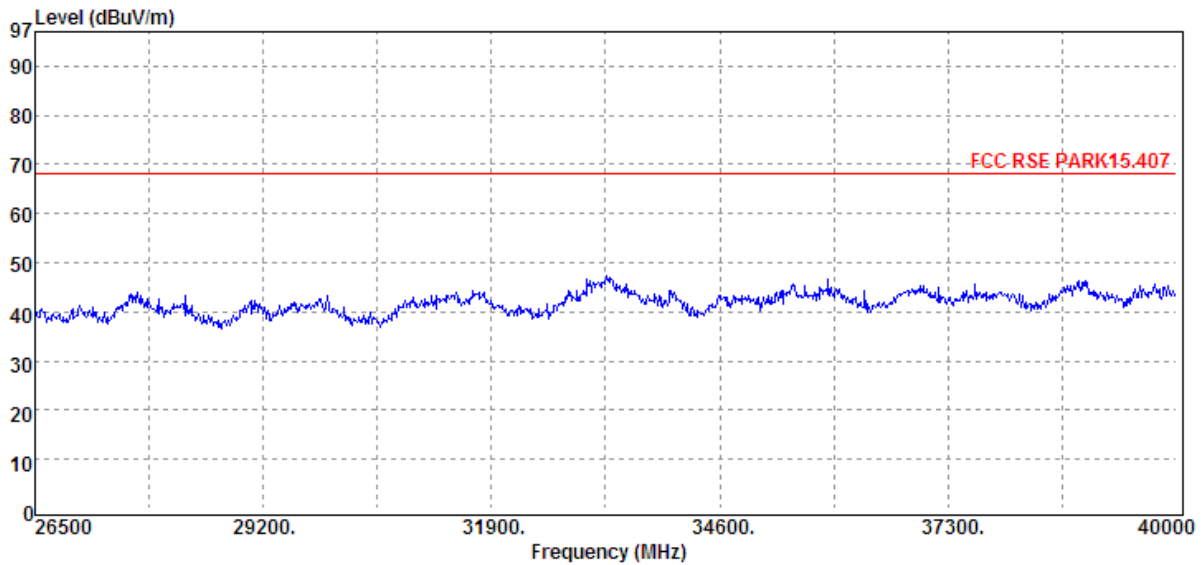
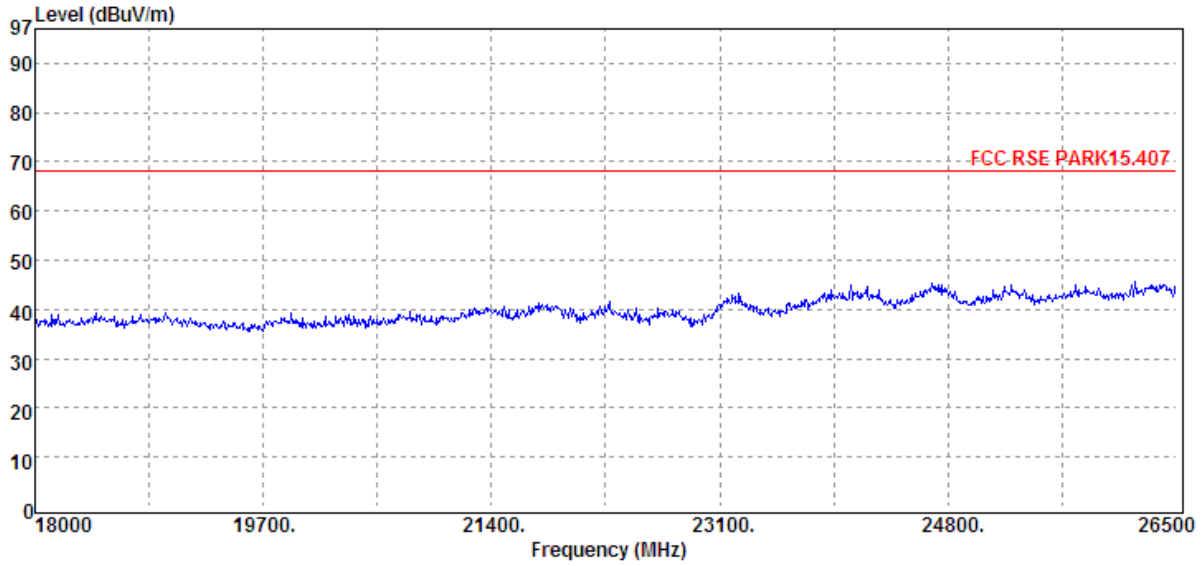
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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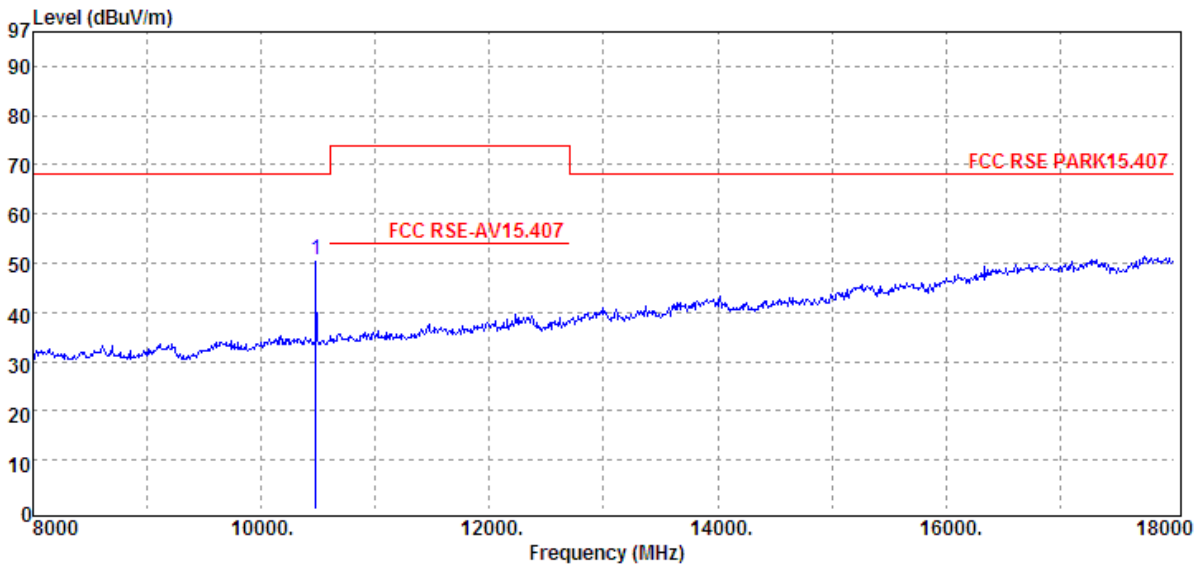
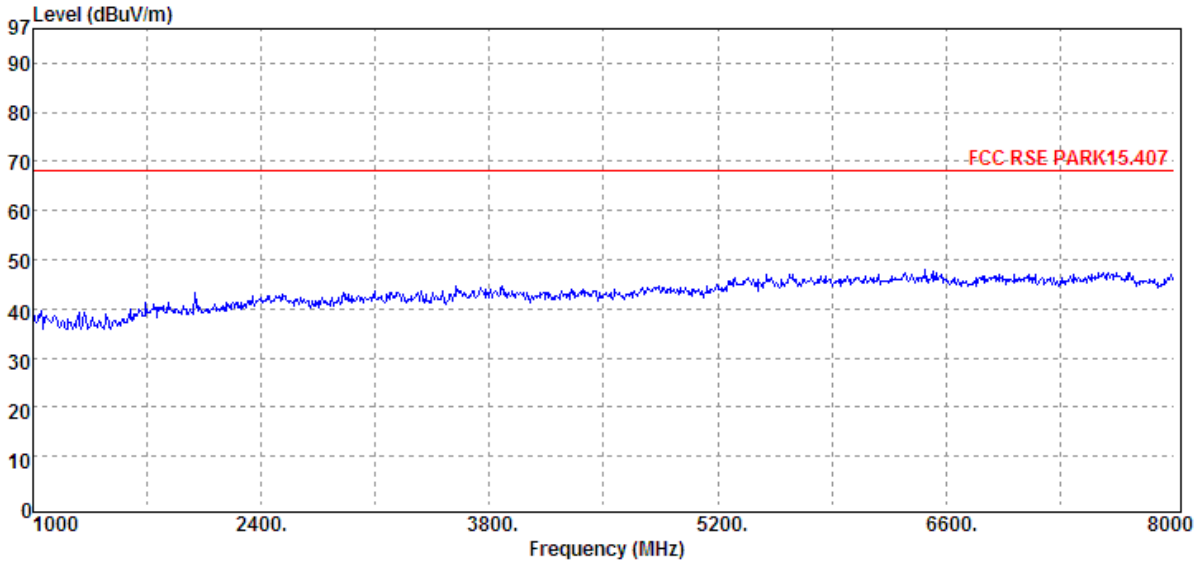


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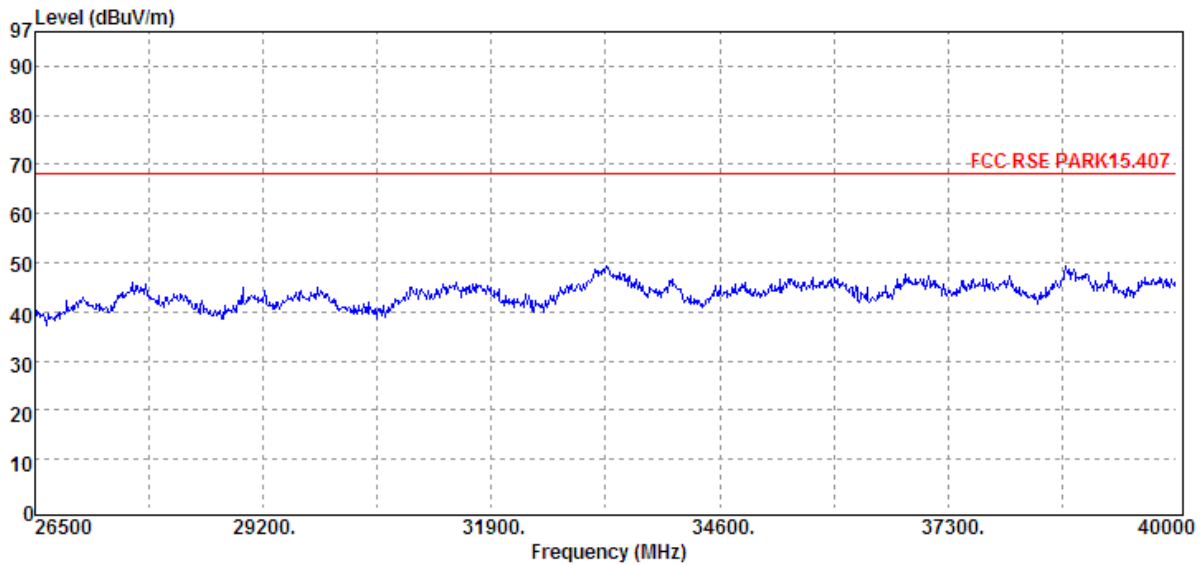
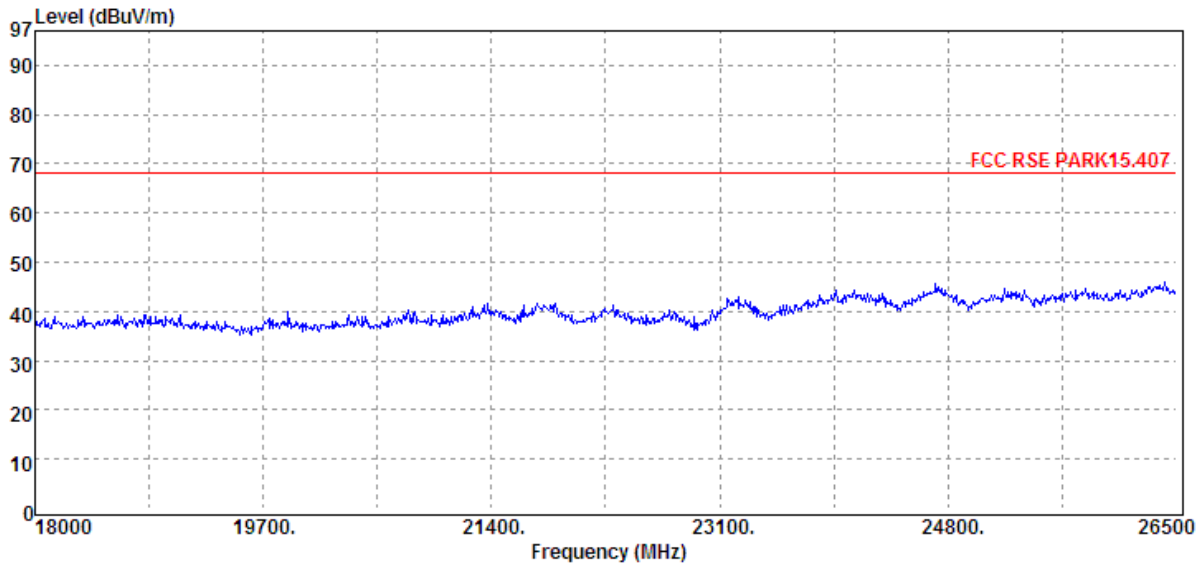
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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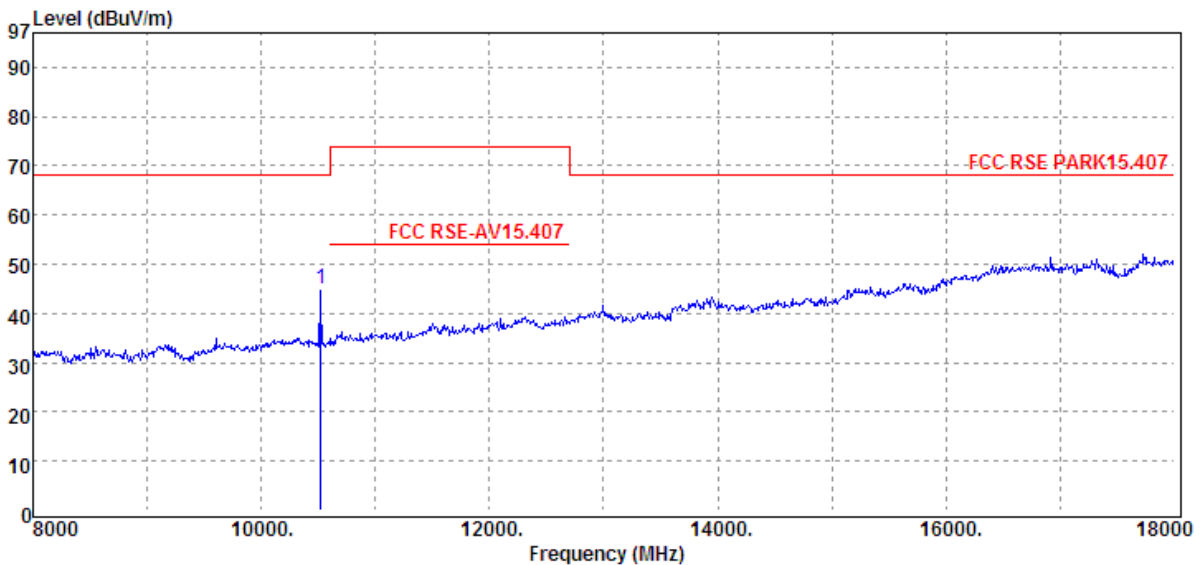
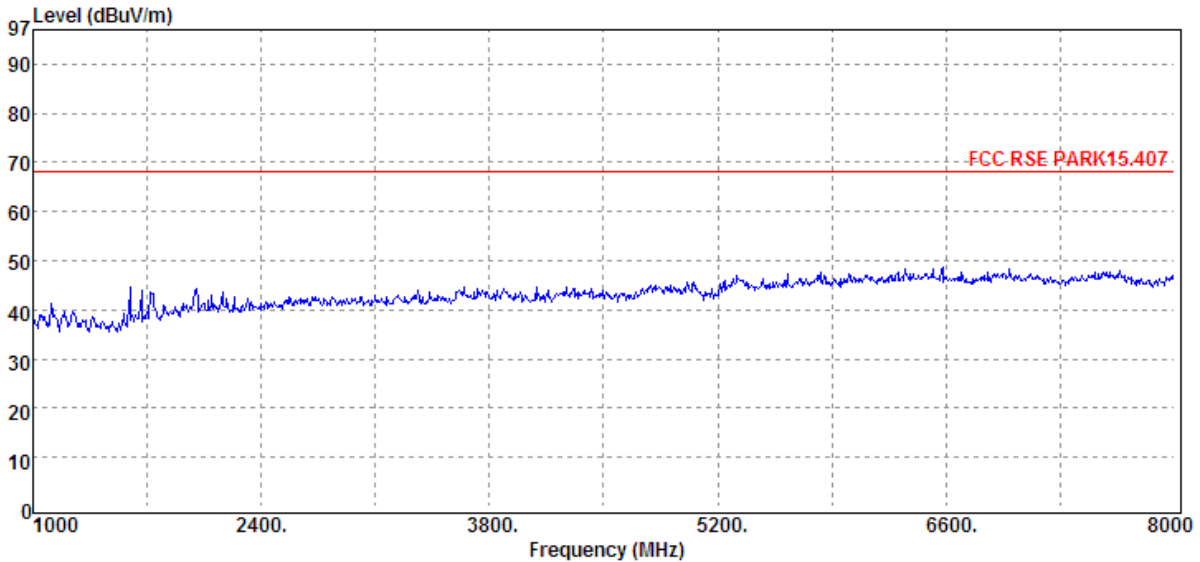
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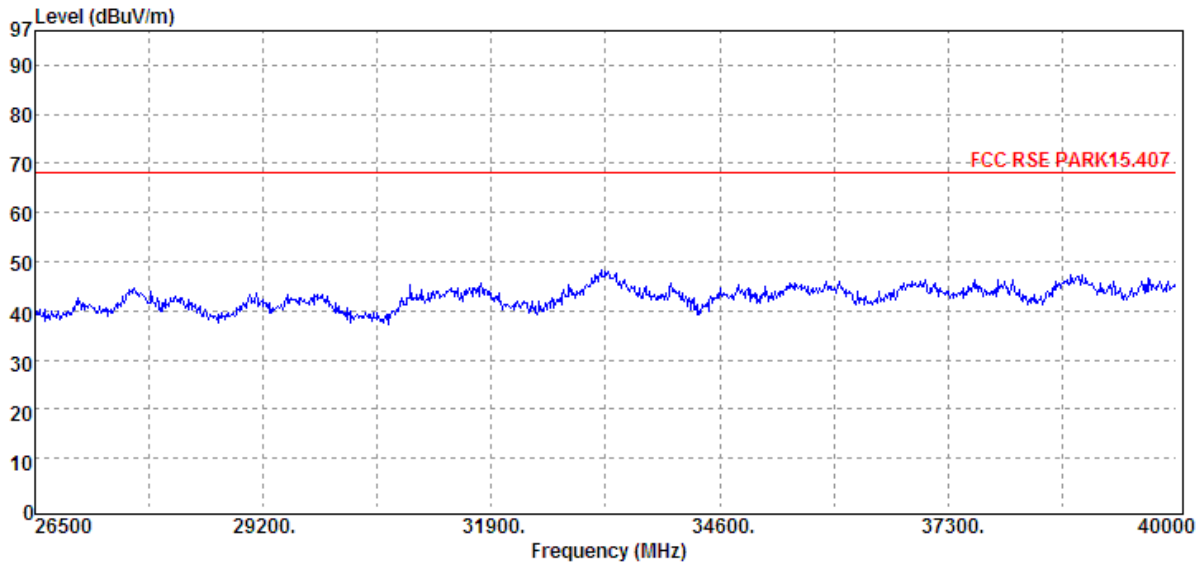
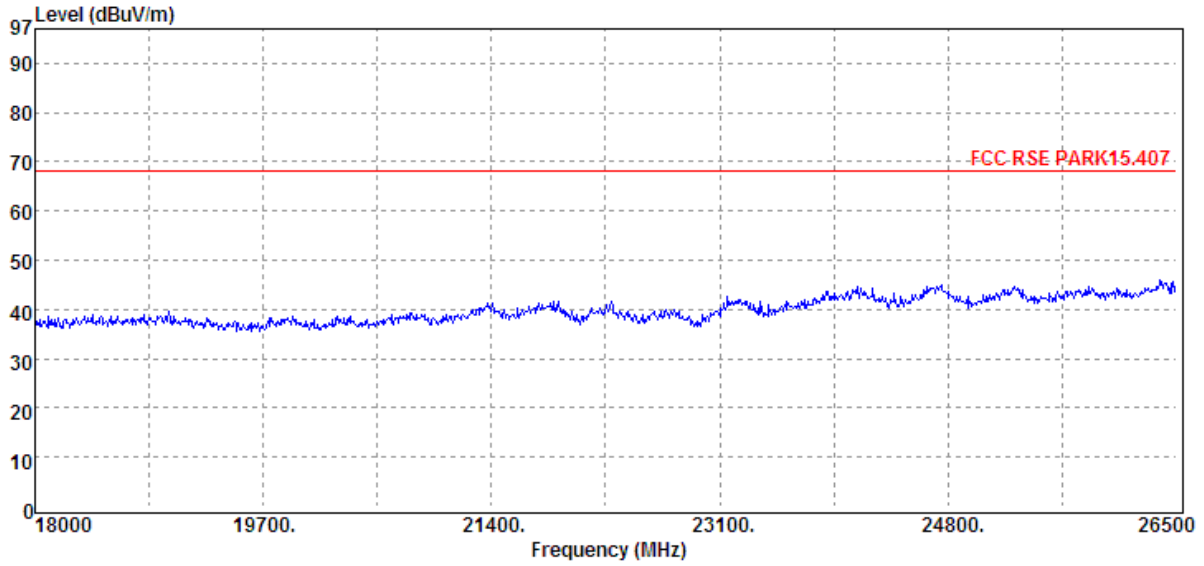
802.11a 5250-5350MHz

Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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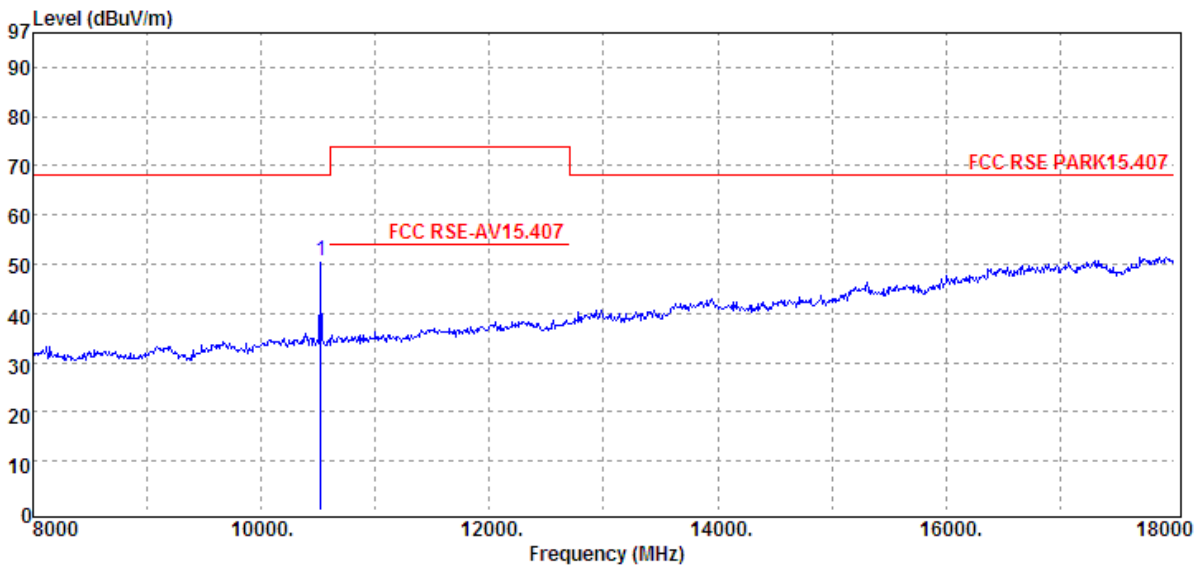
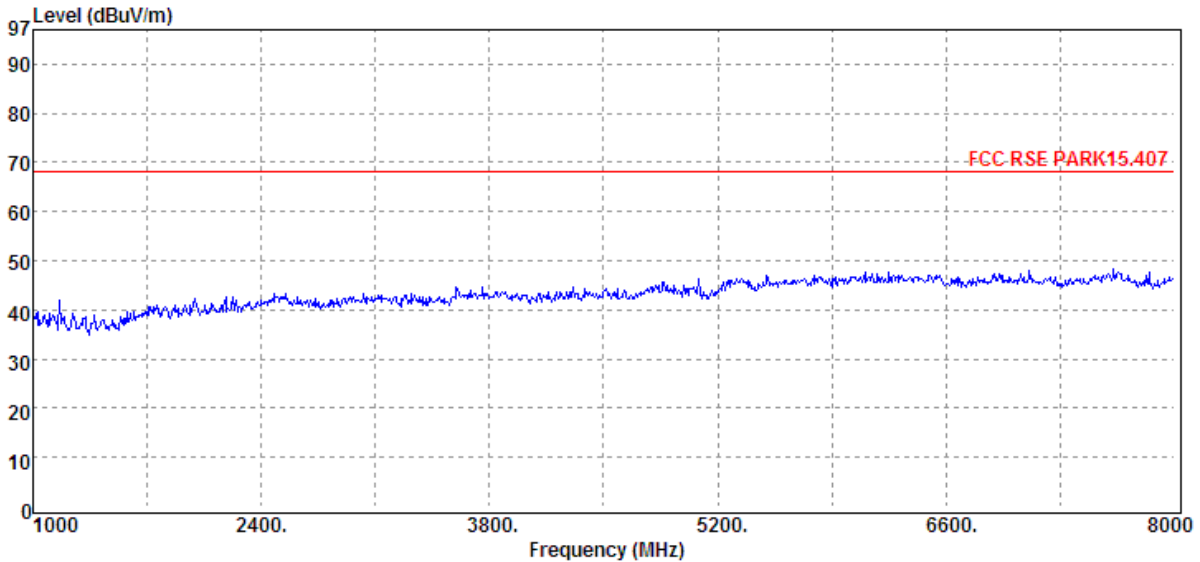


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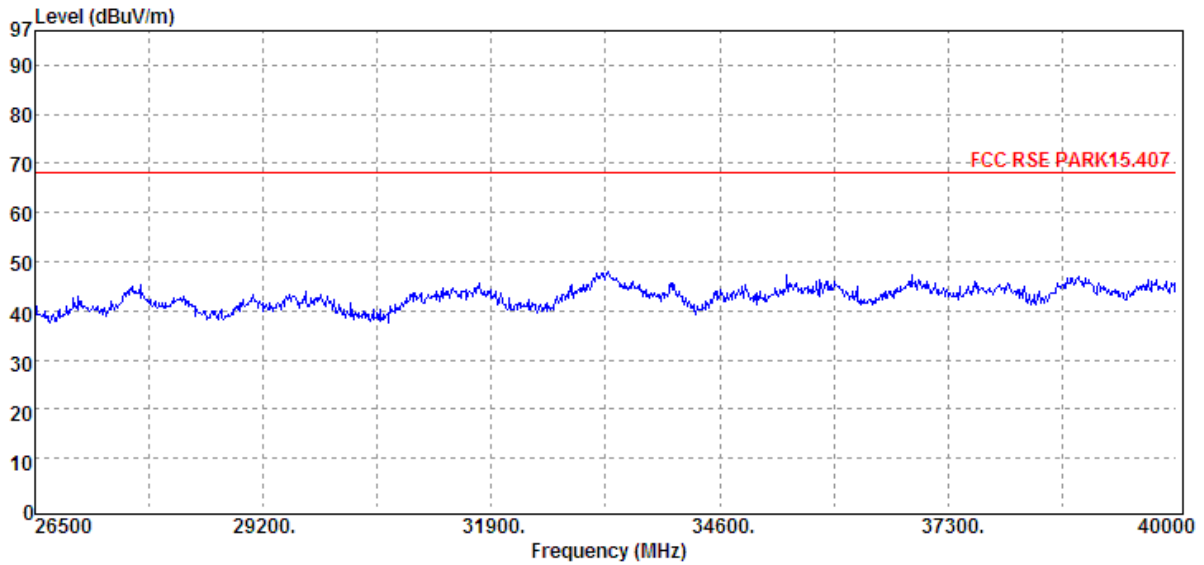
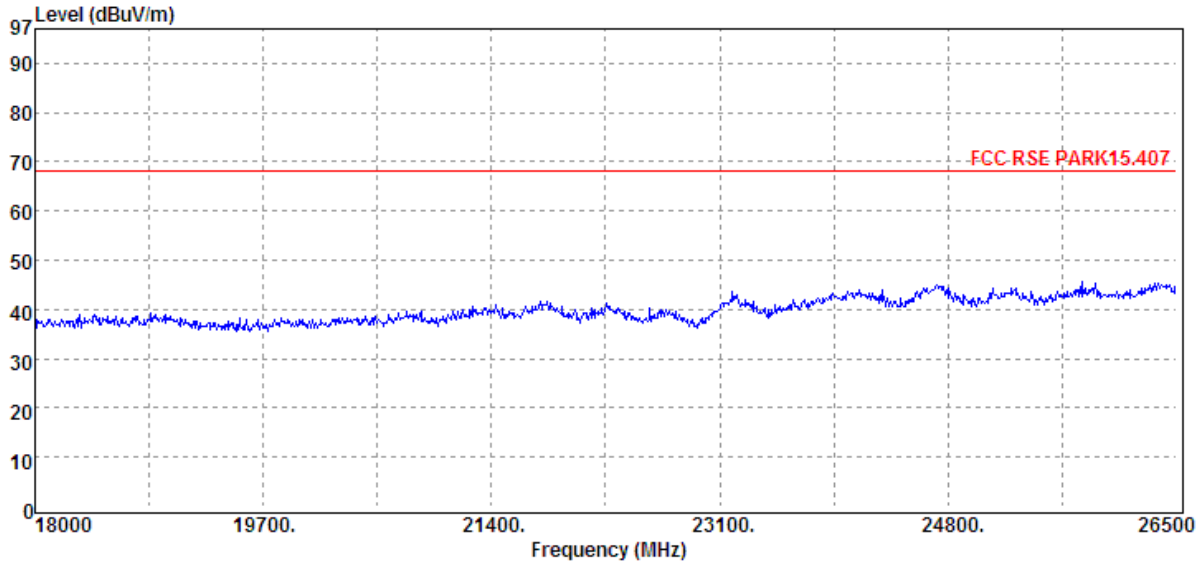
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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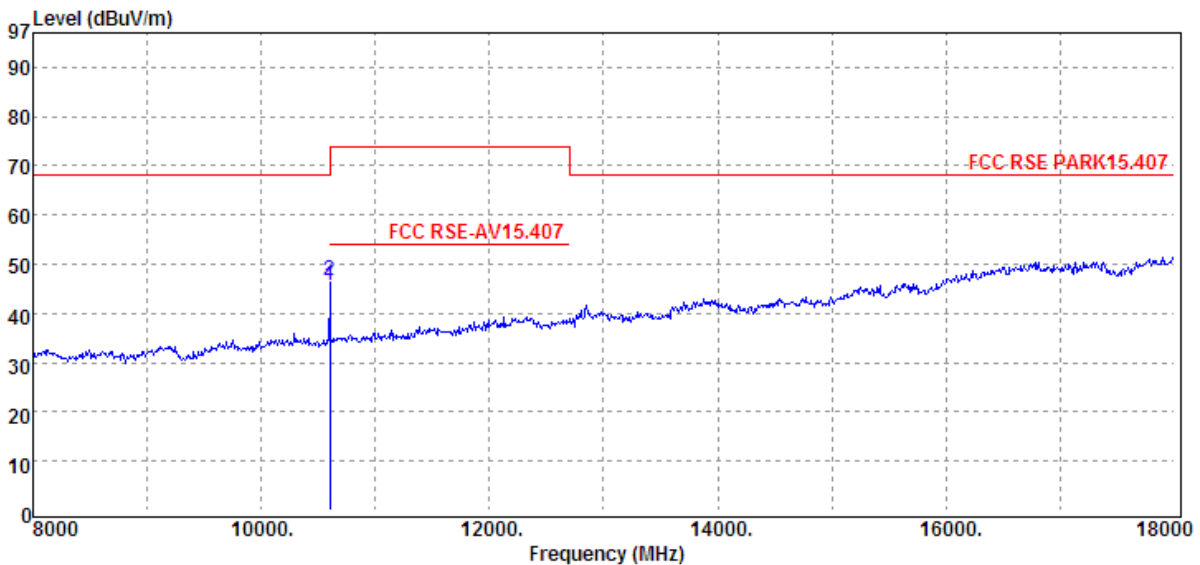
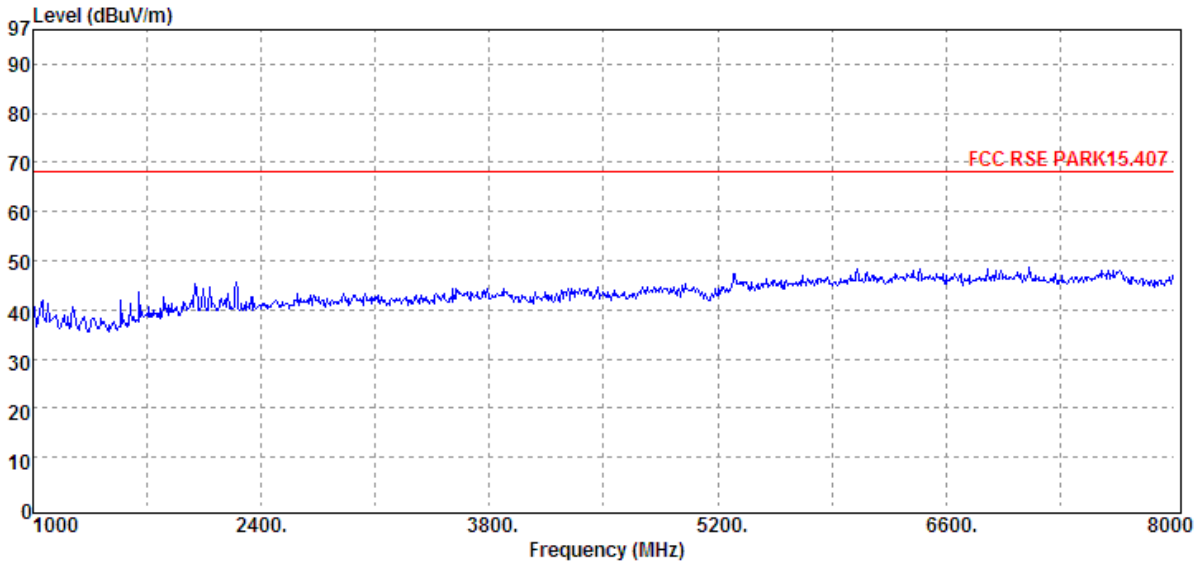


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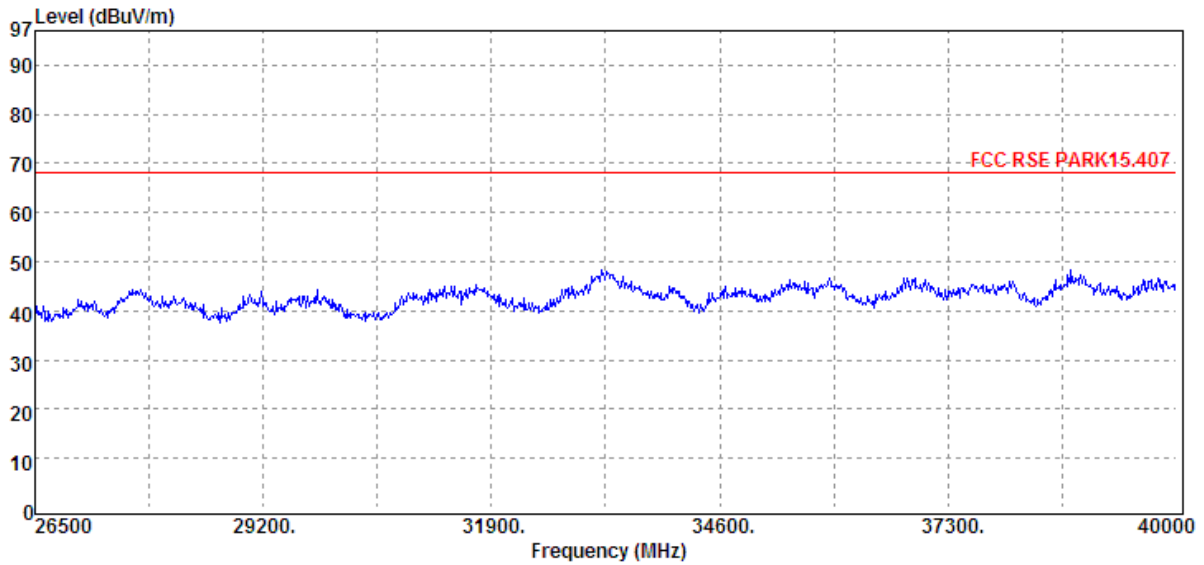
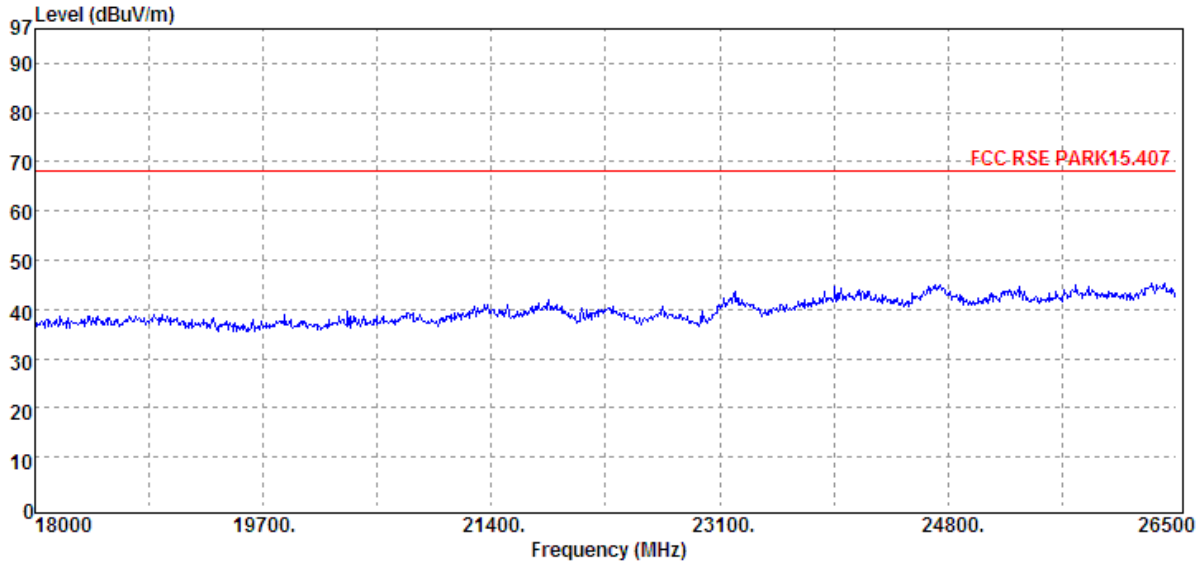
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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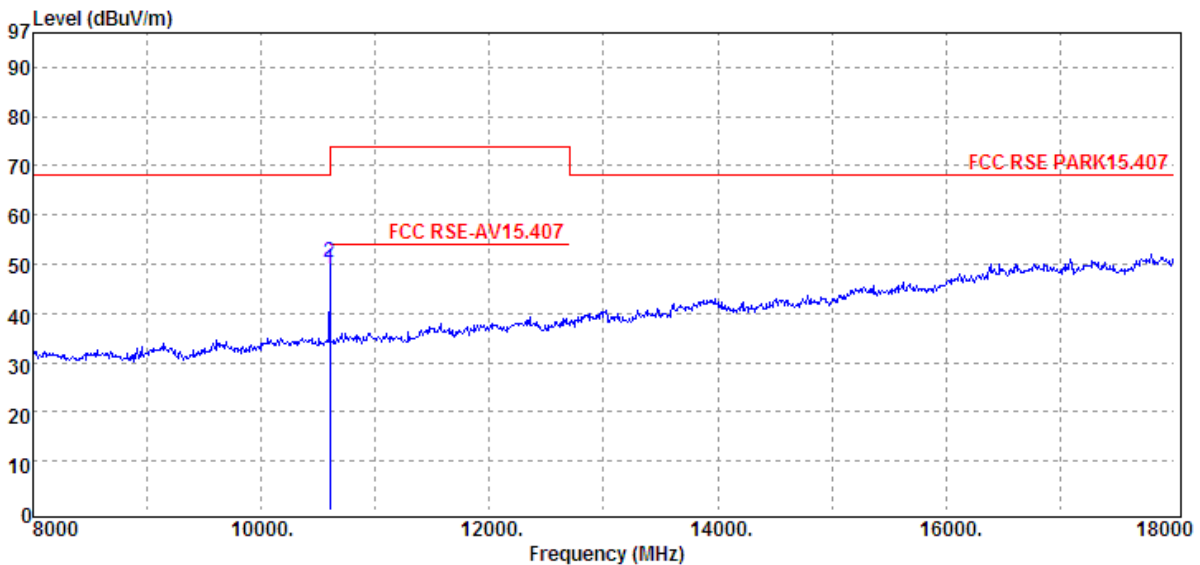
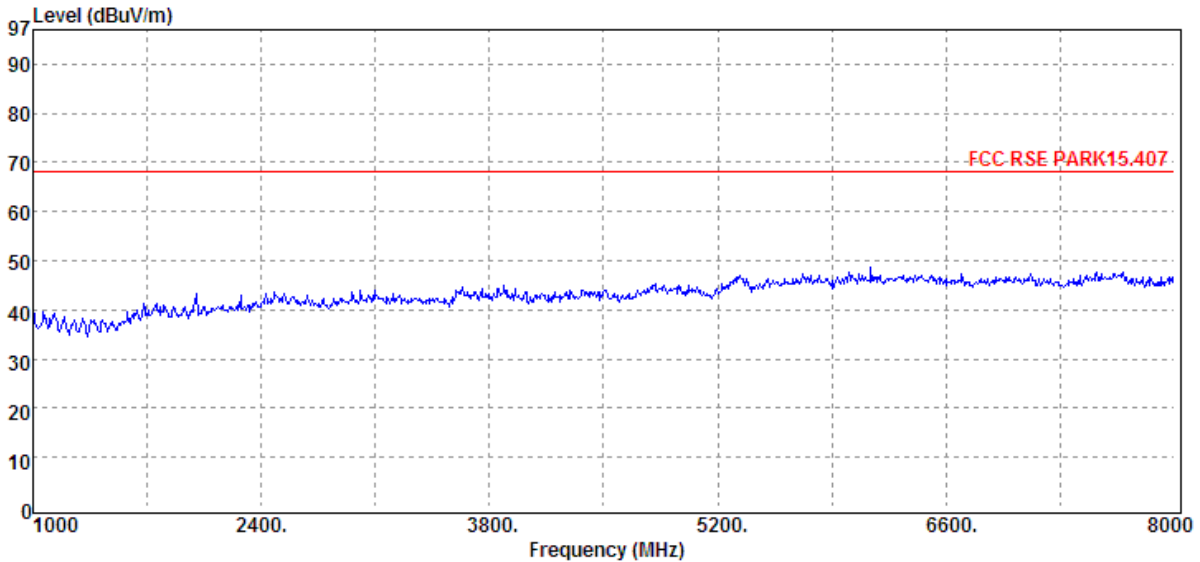
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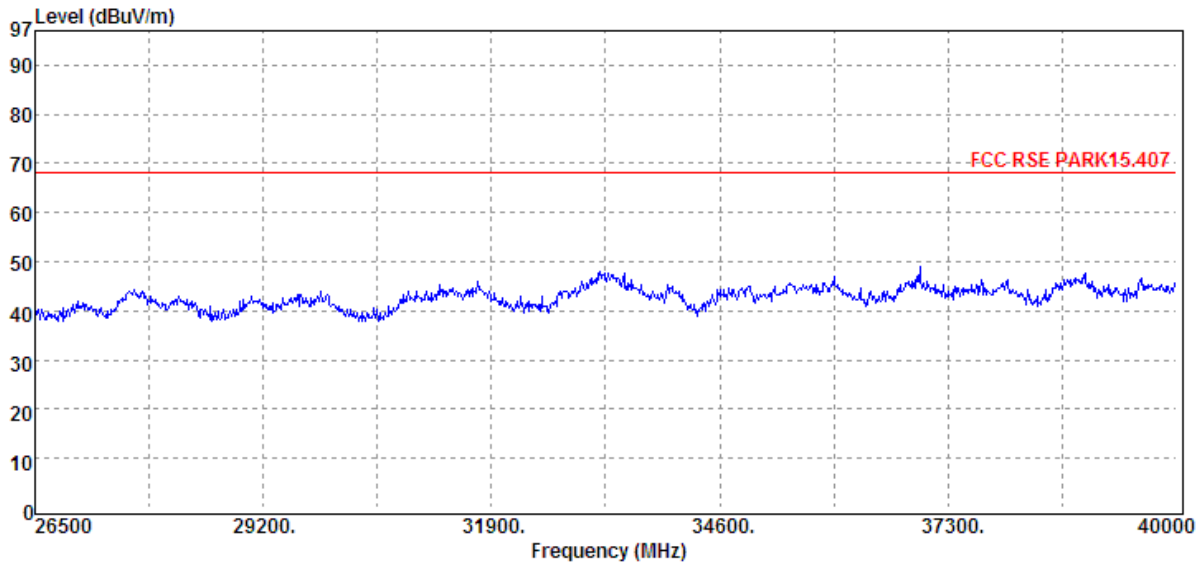
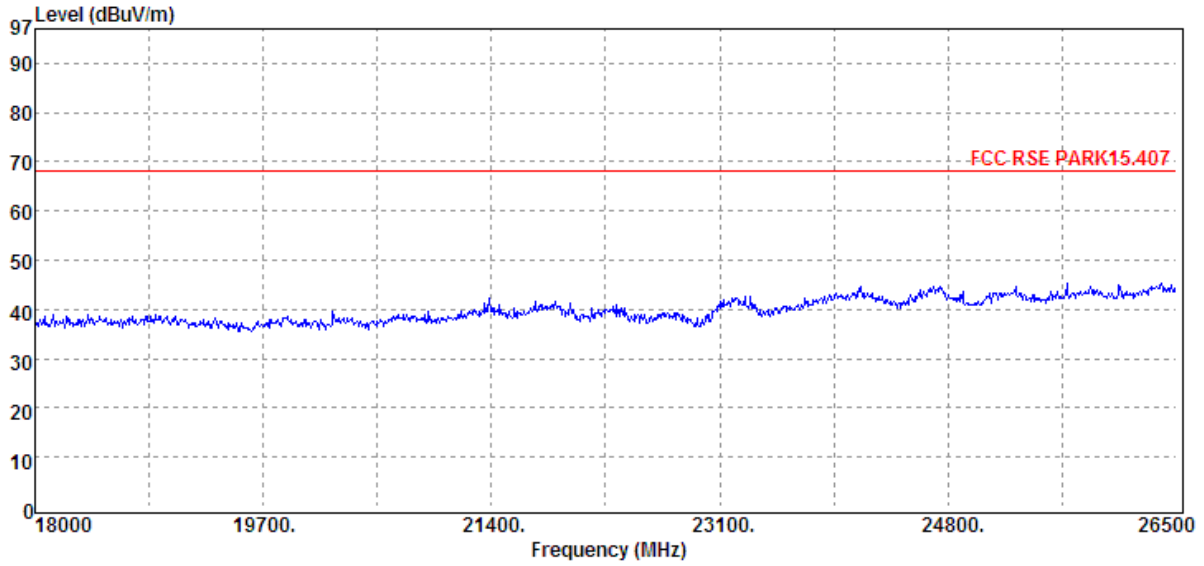
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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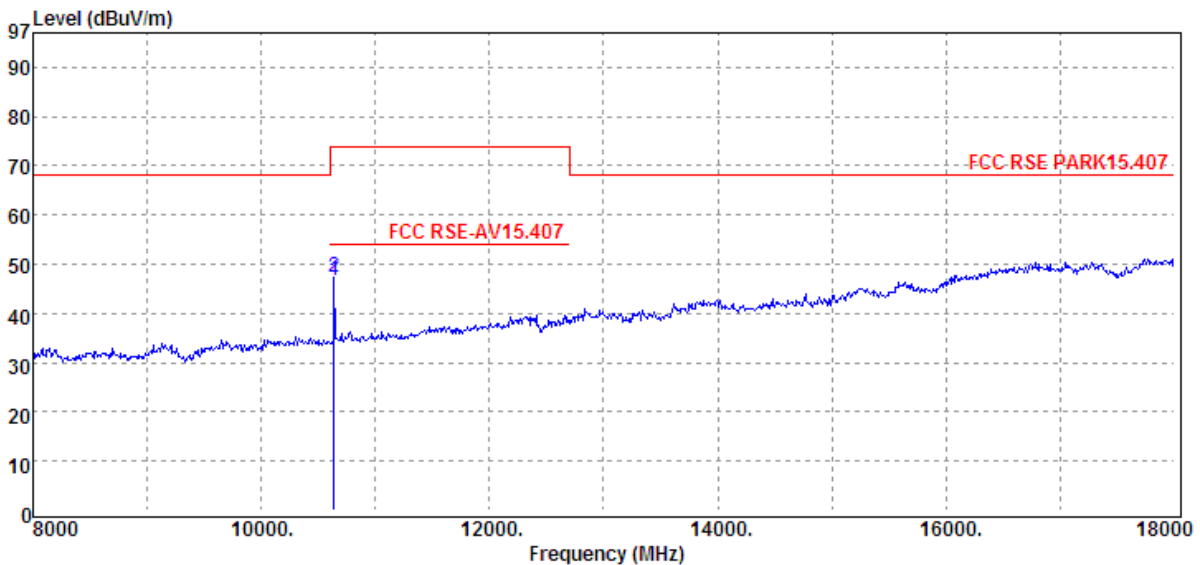
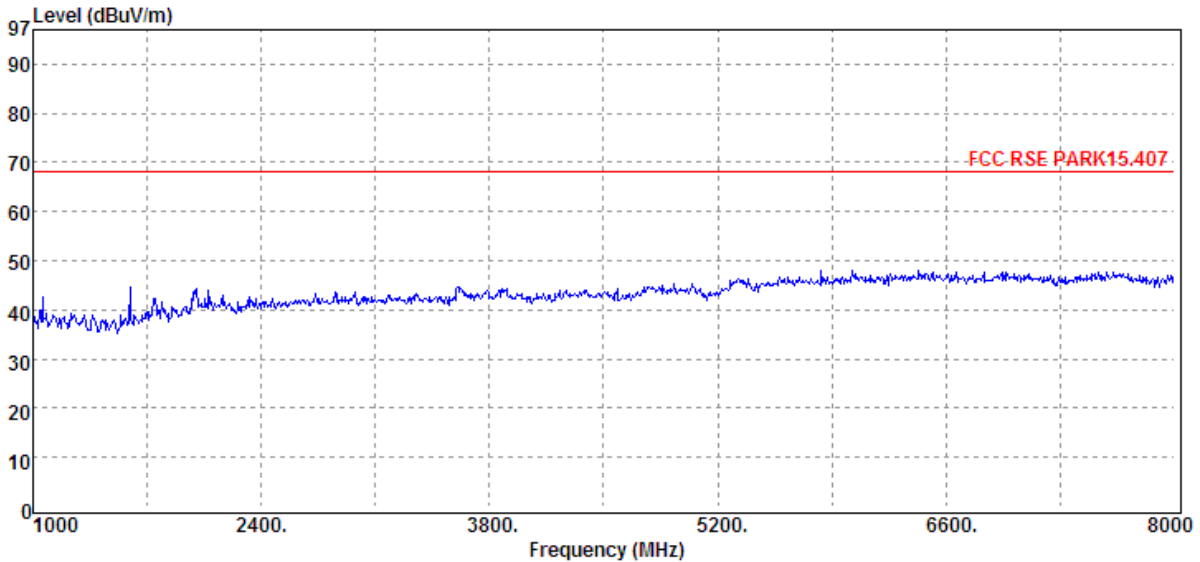
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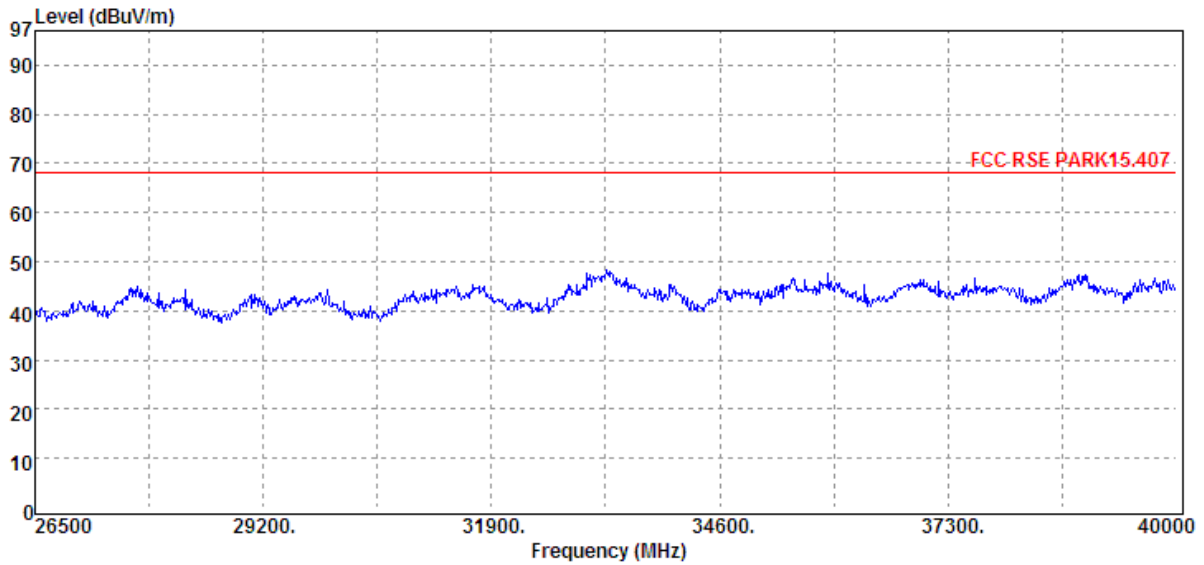
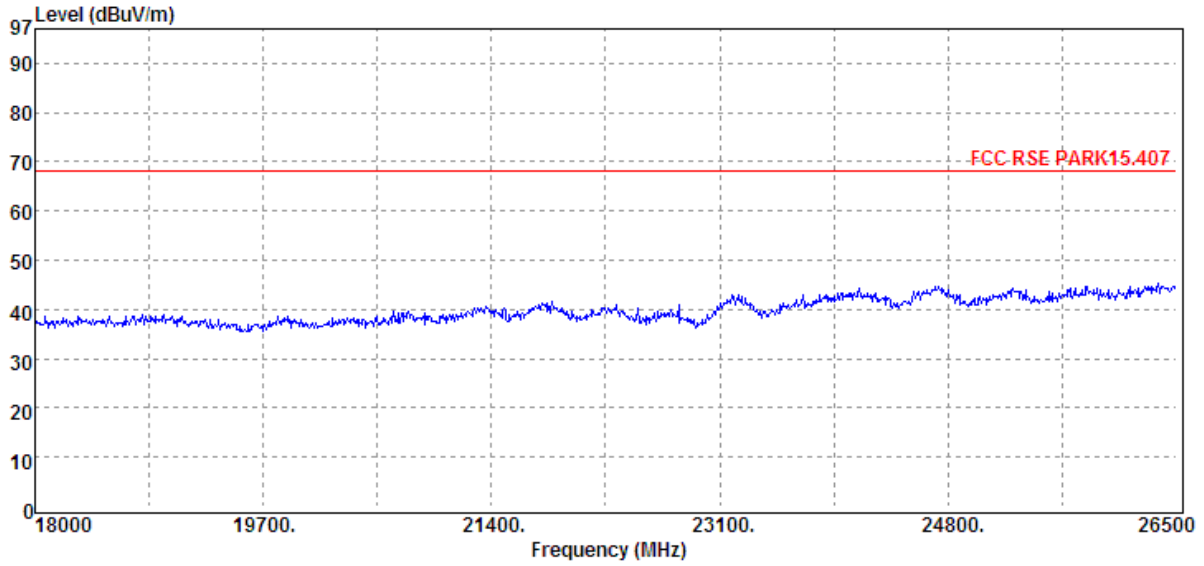
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Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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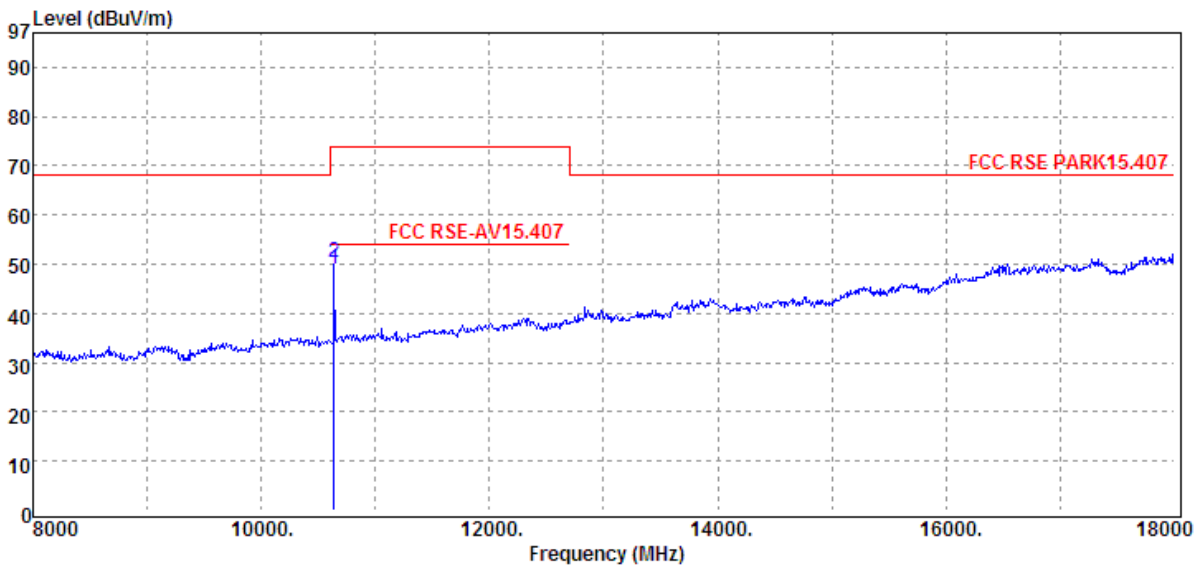
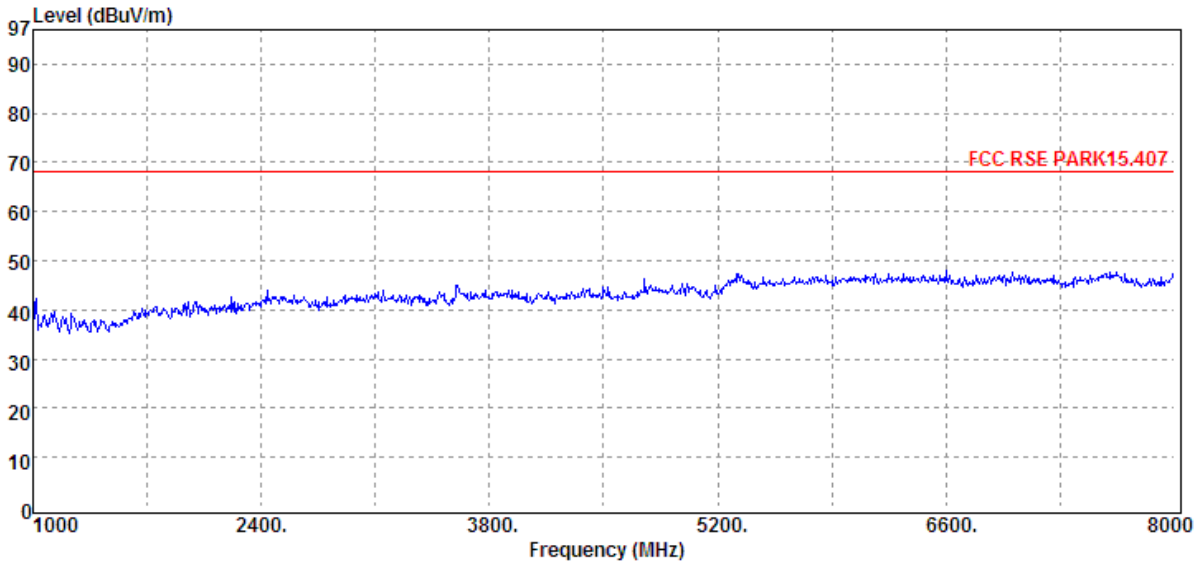


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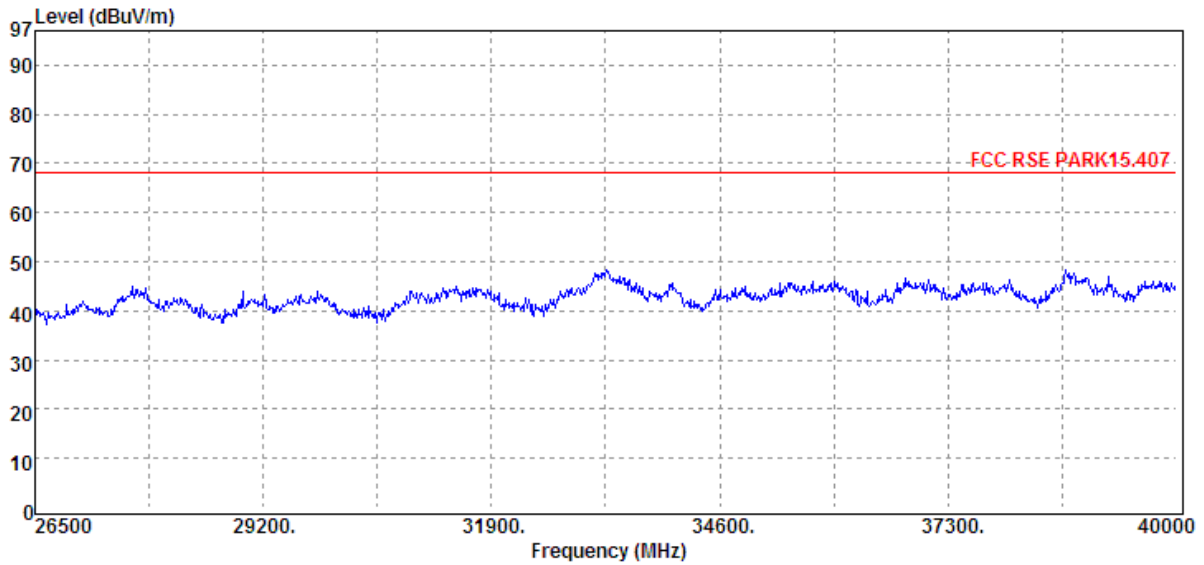
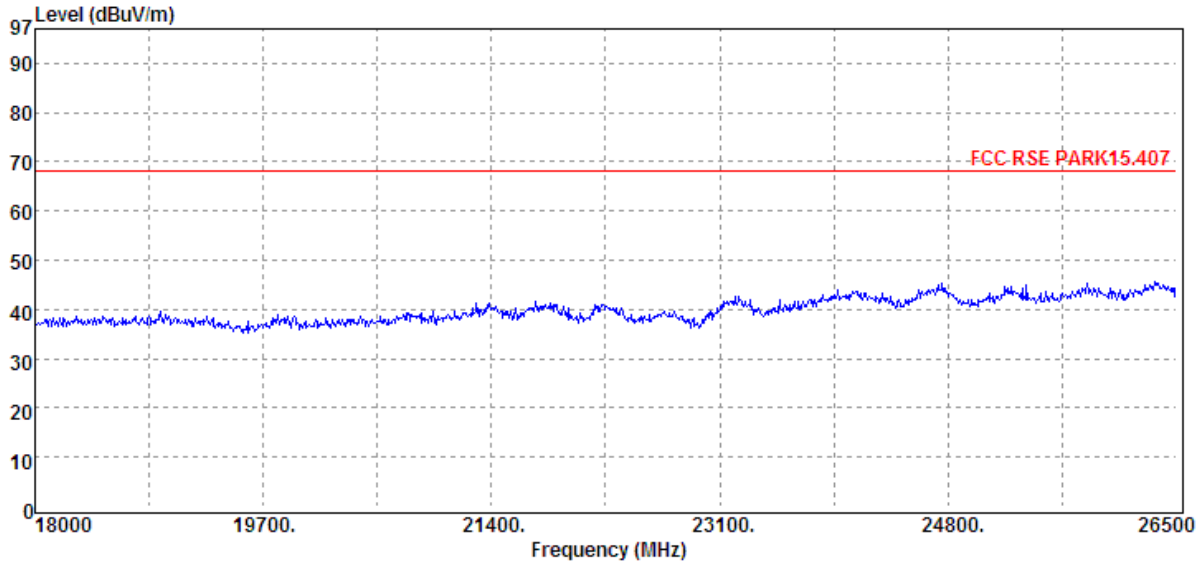
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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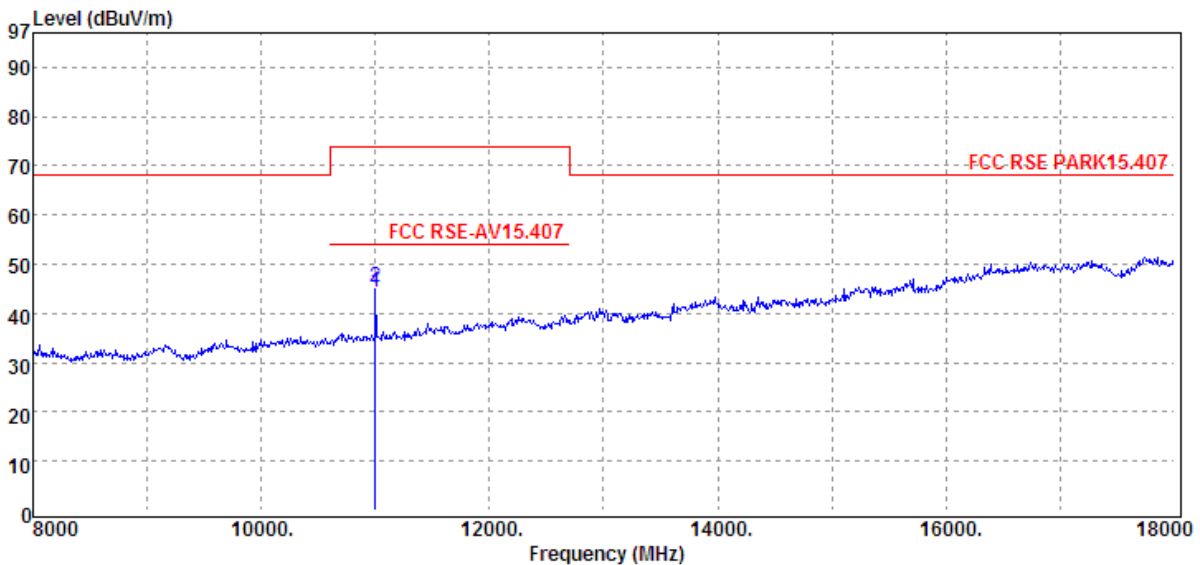
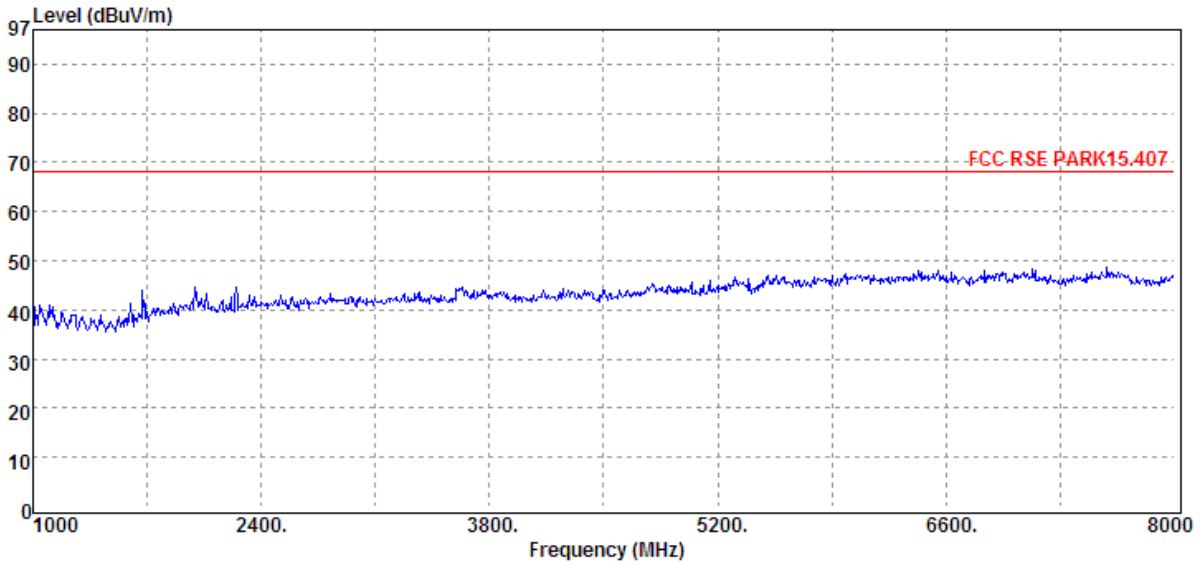
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802.11a 5470-5725MHz

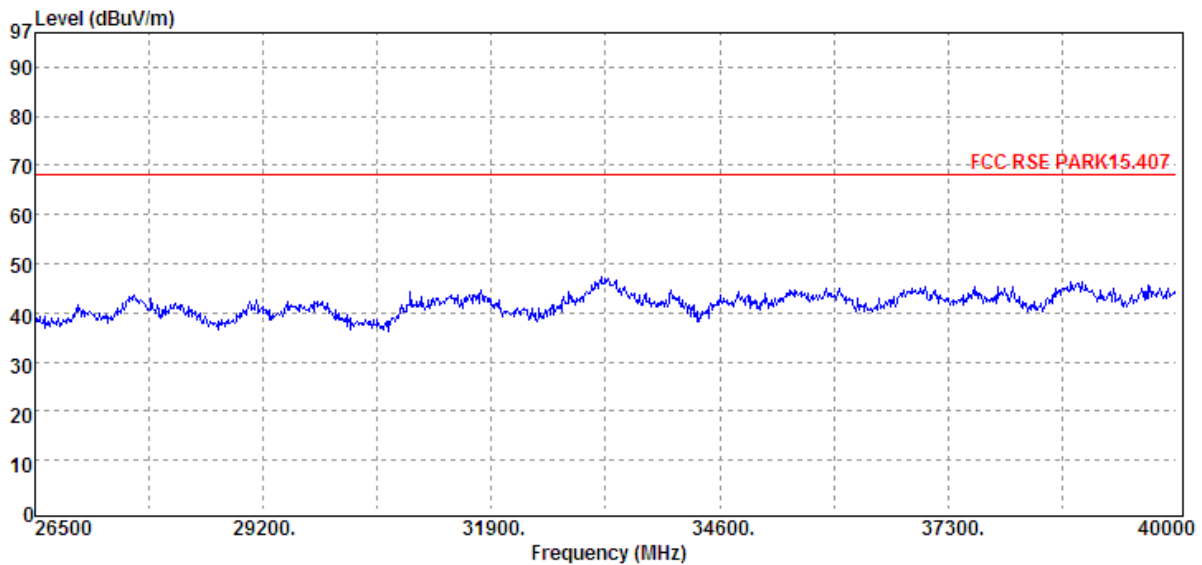
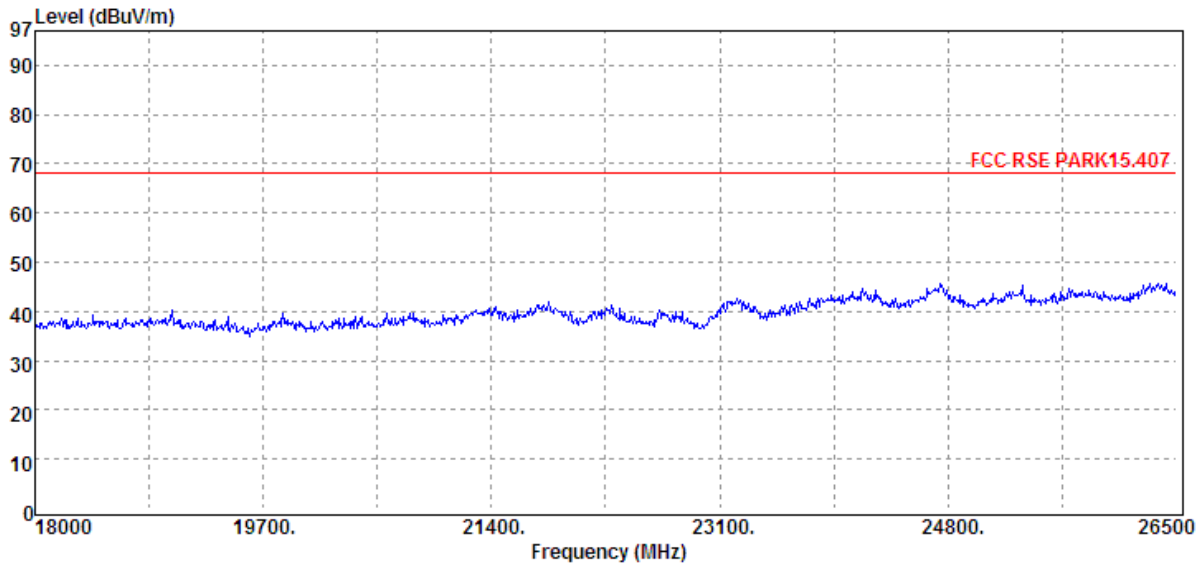
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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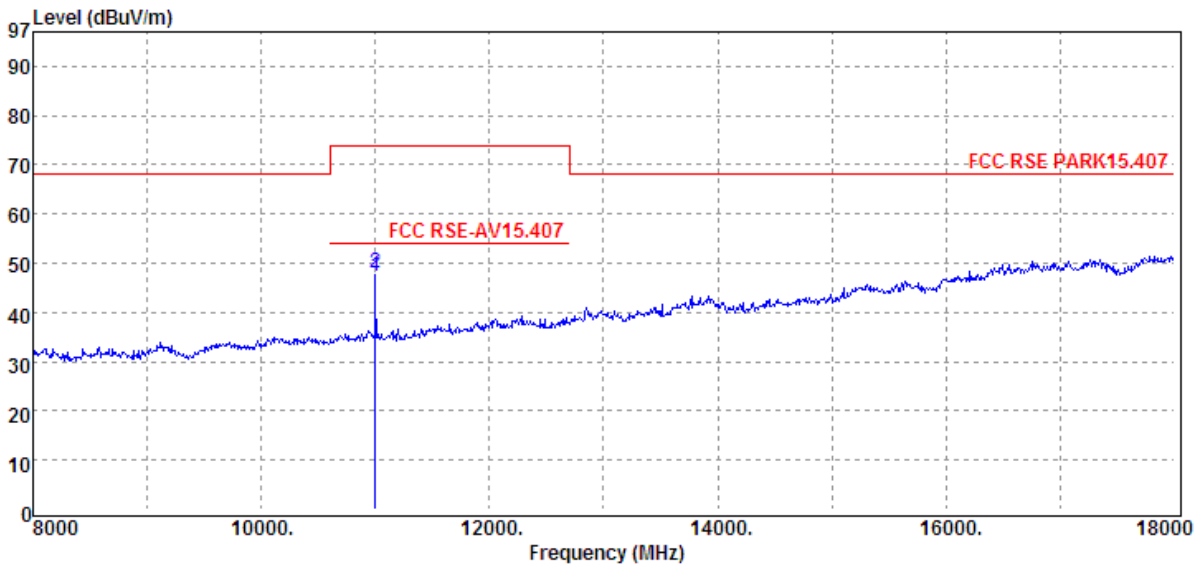
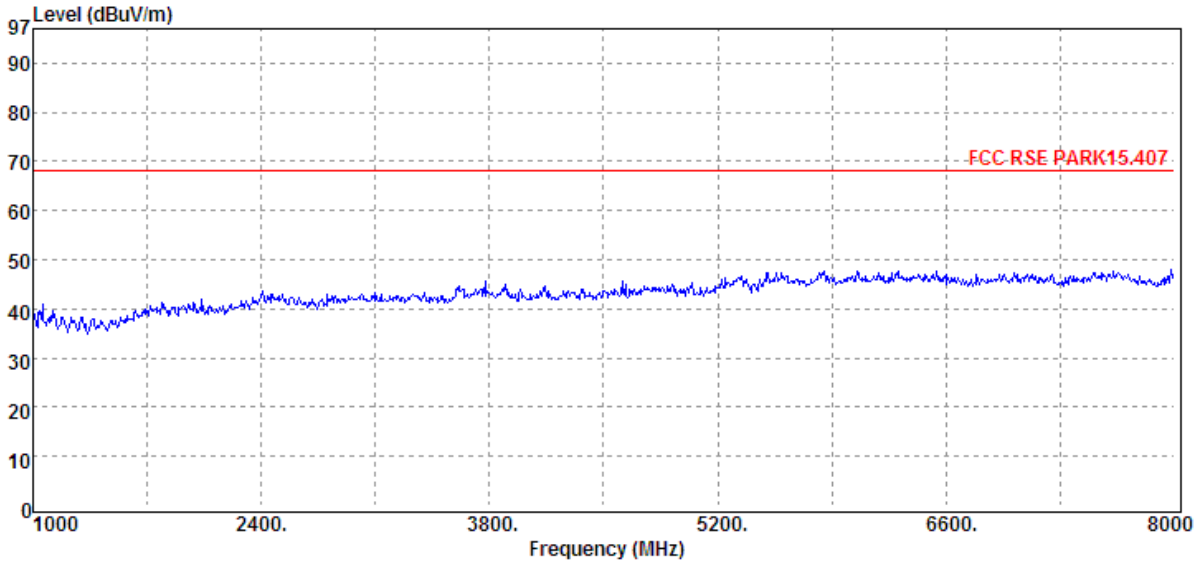


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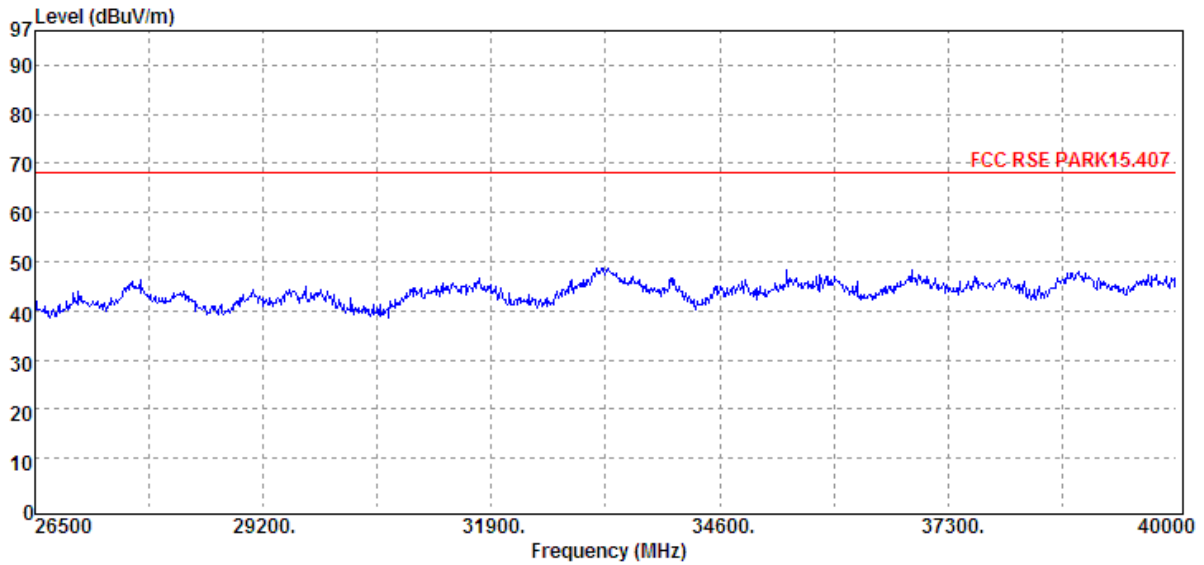
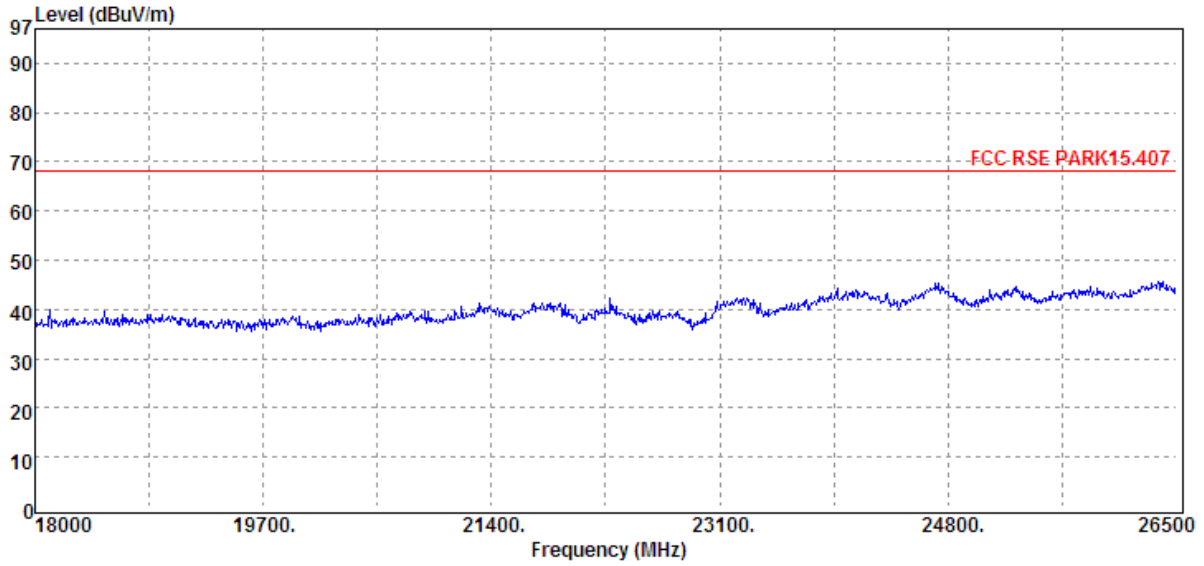
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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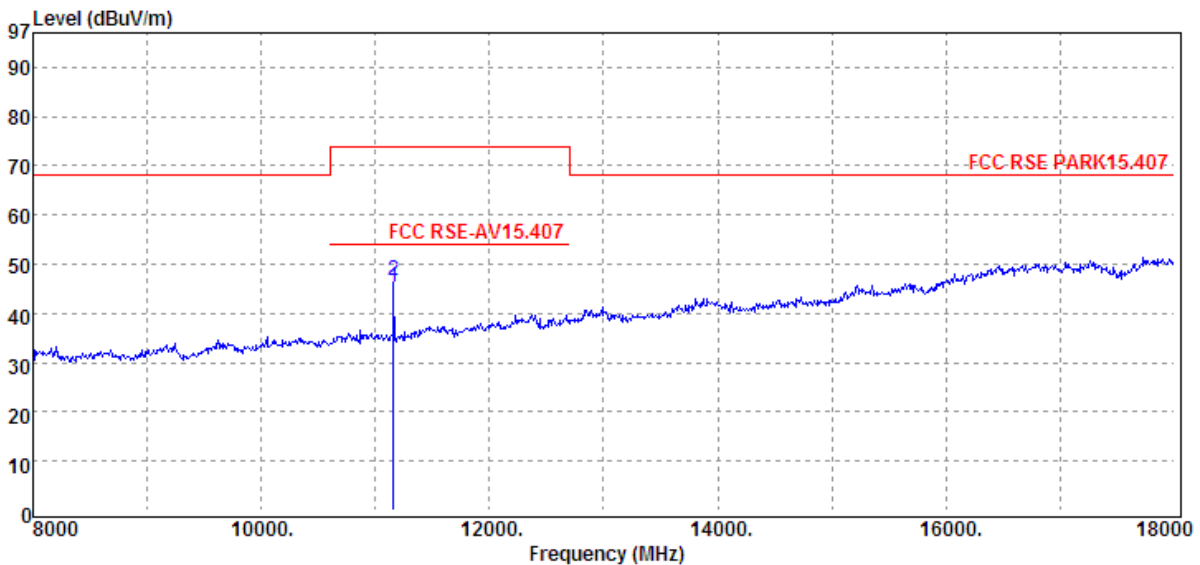
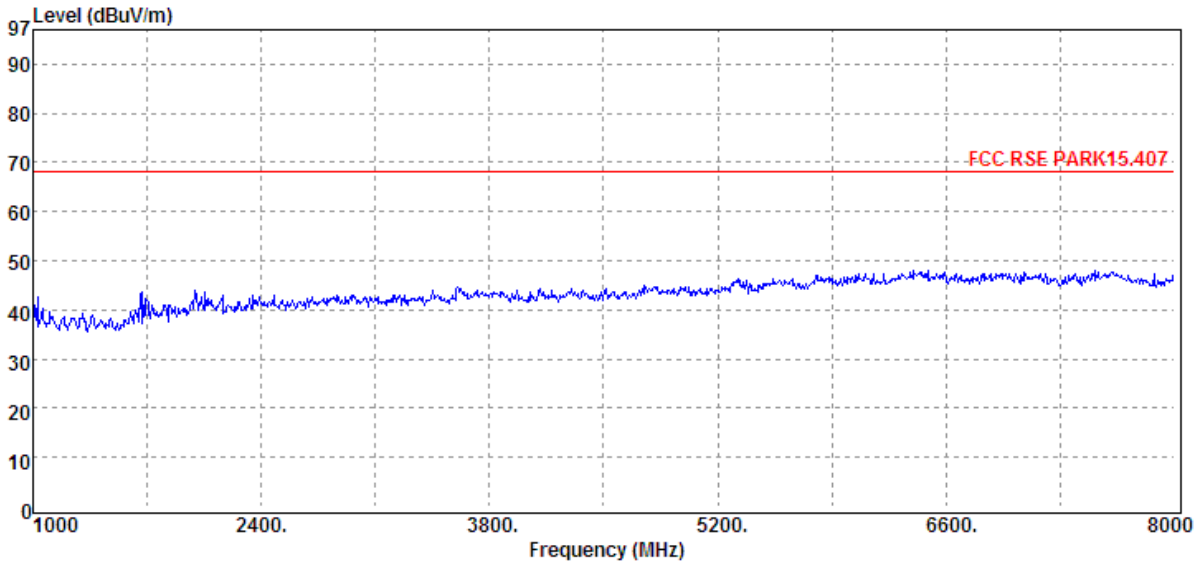


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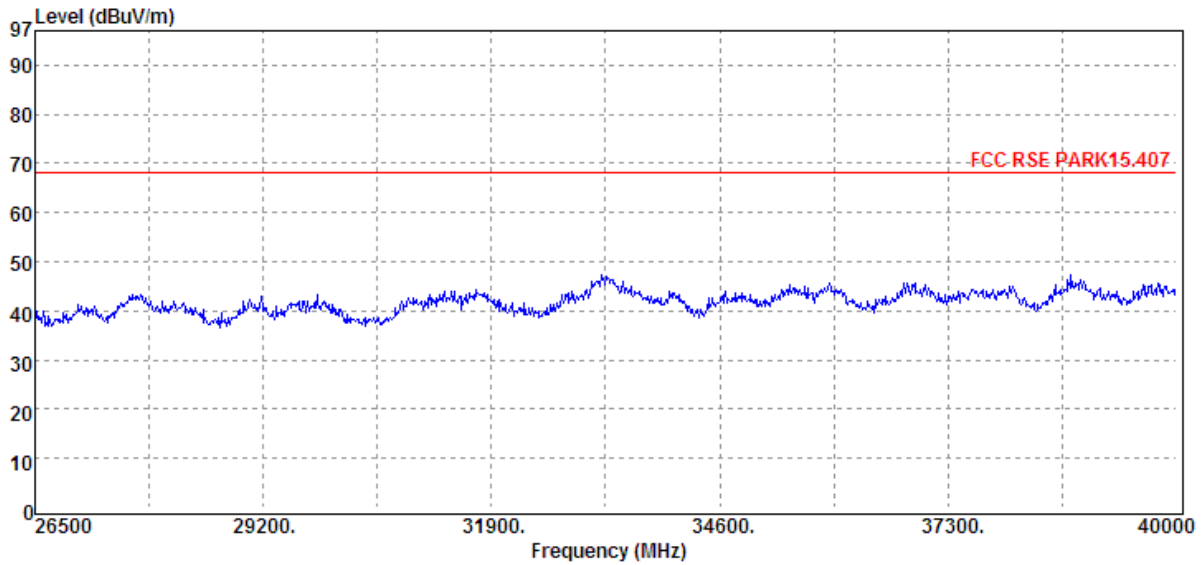
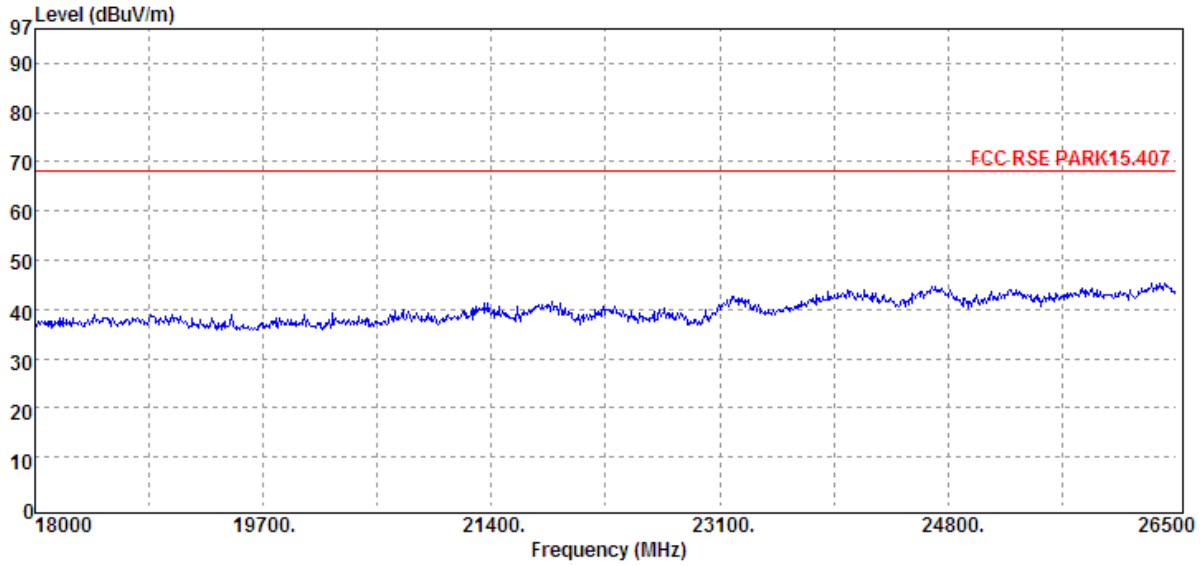
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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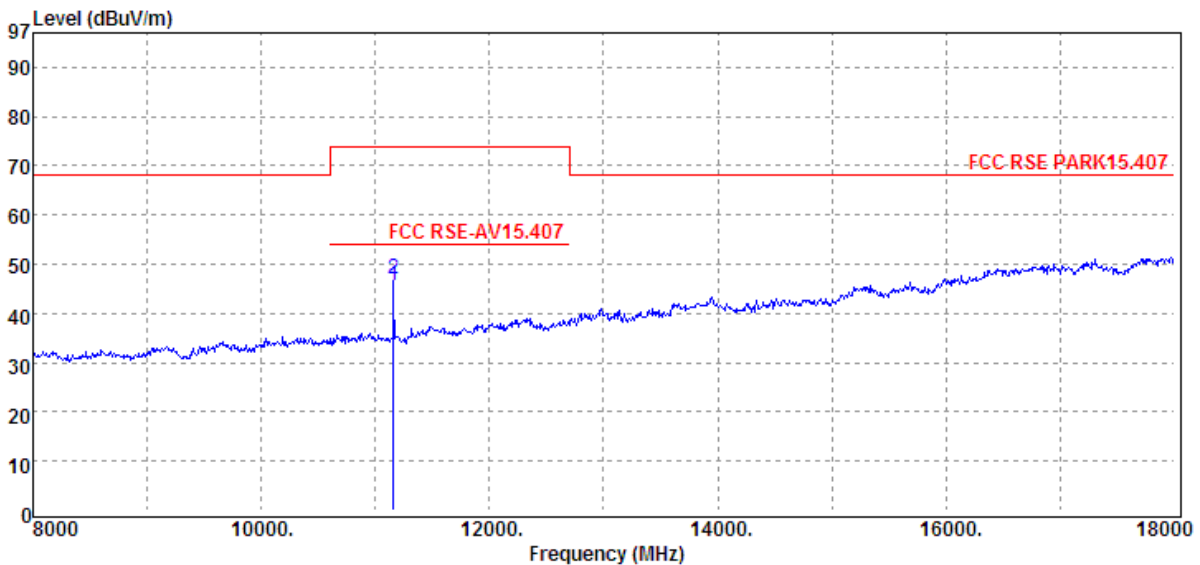
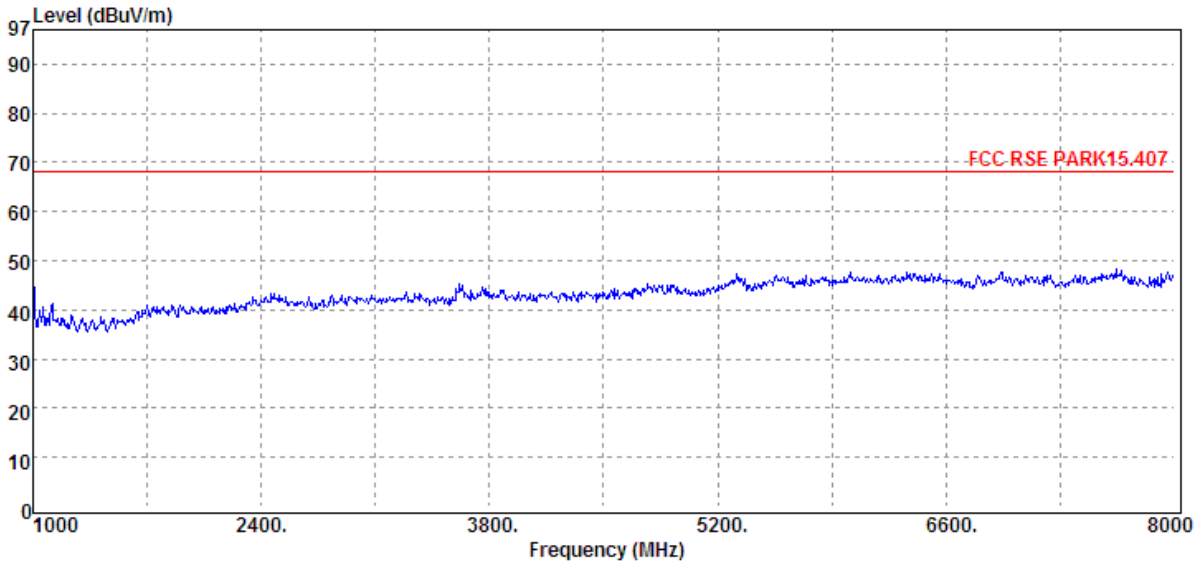


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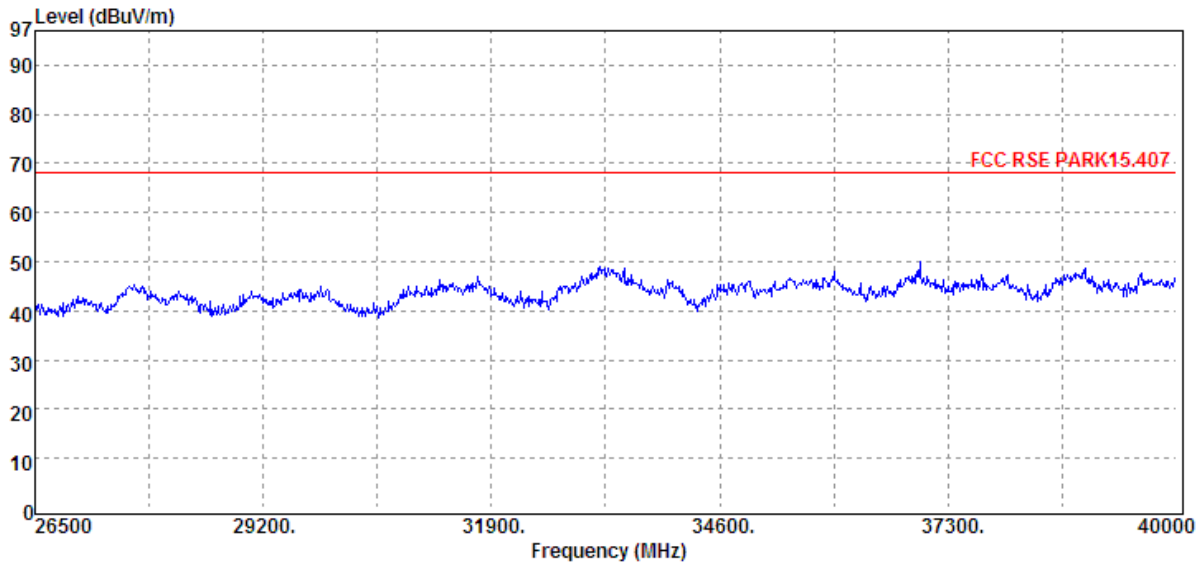
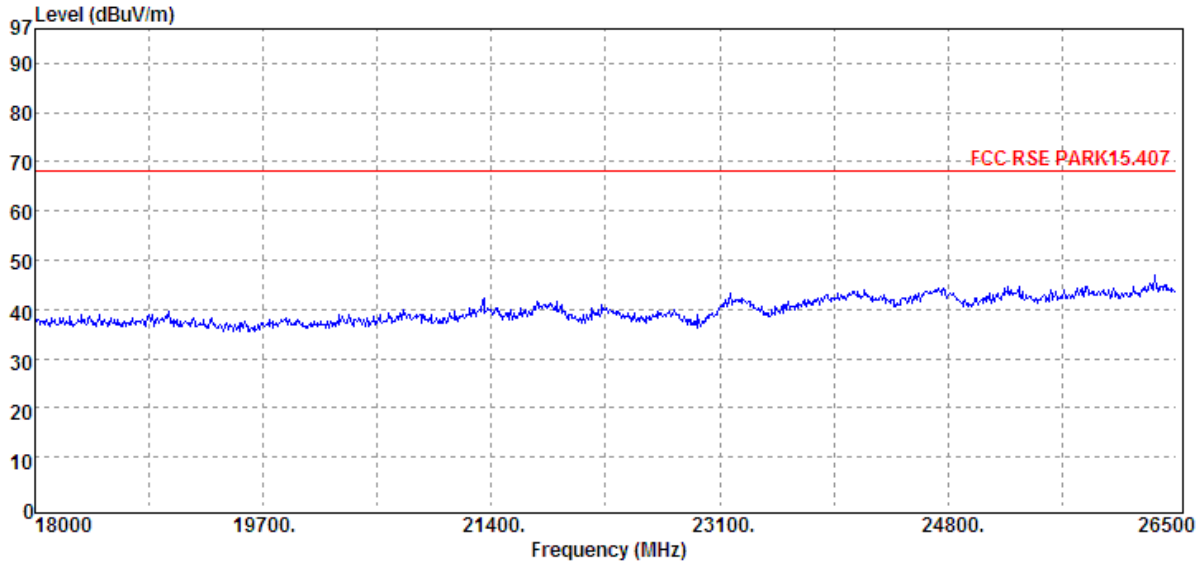
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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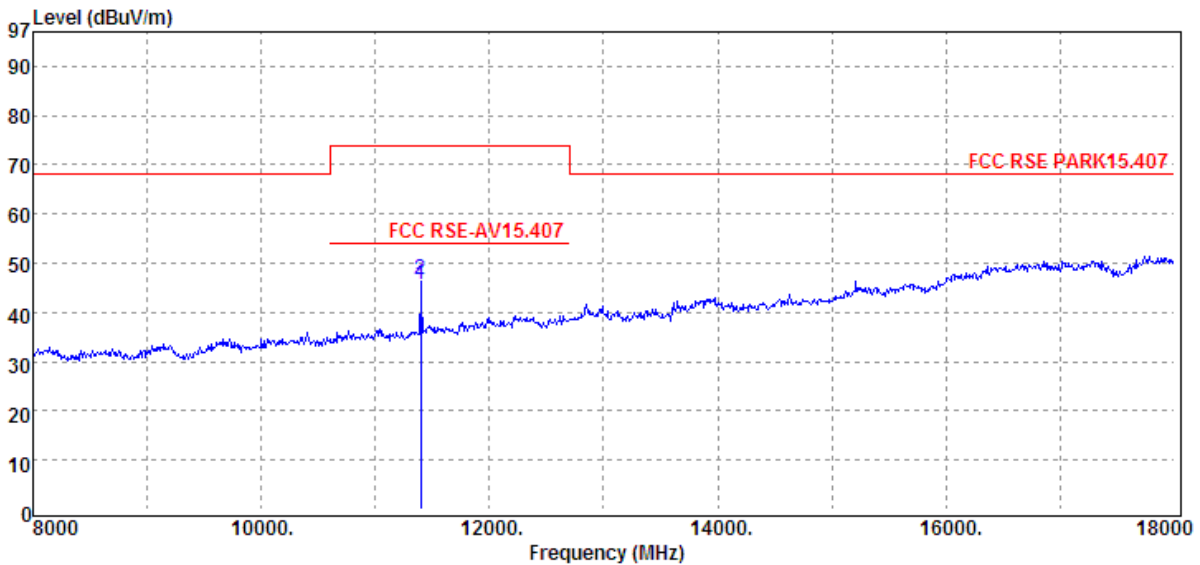
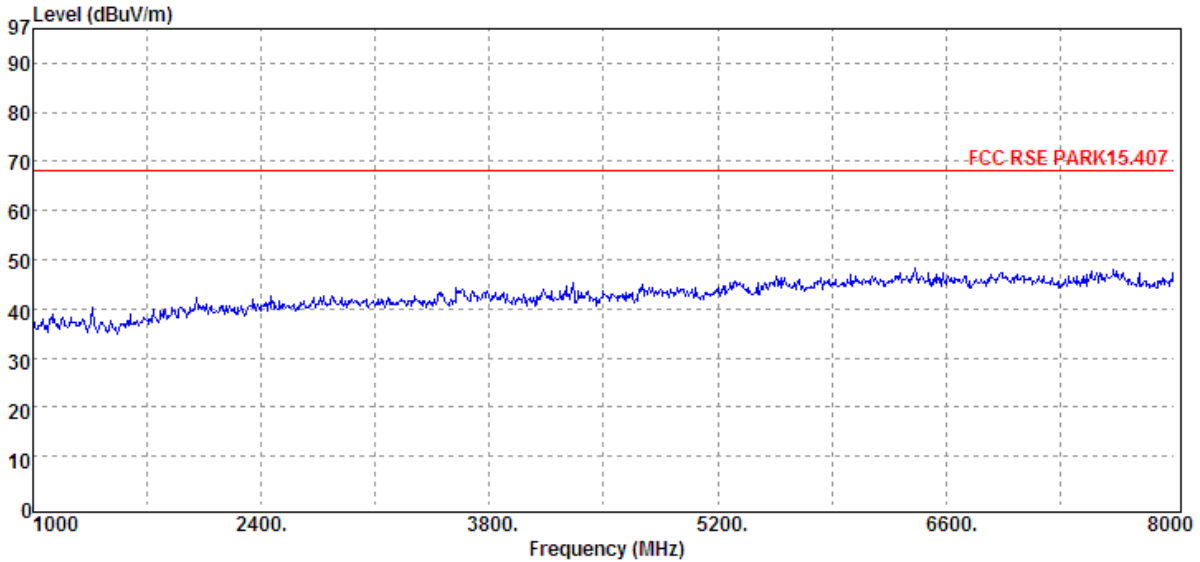


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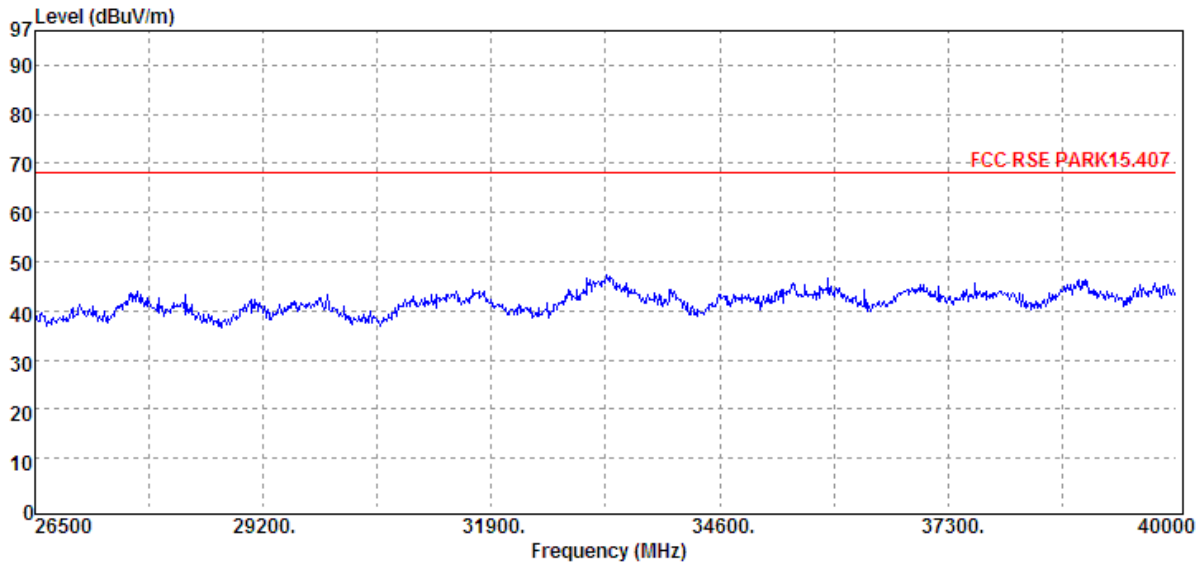
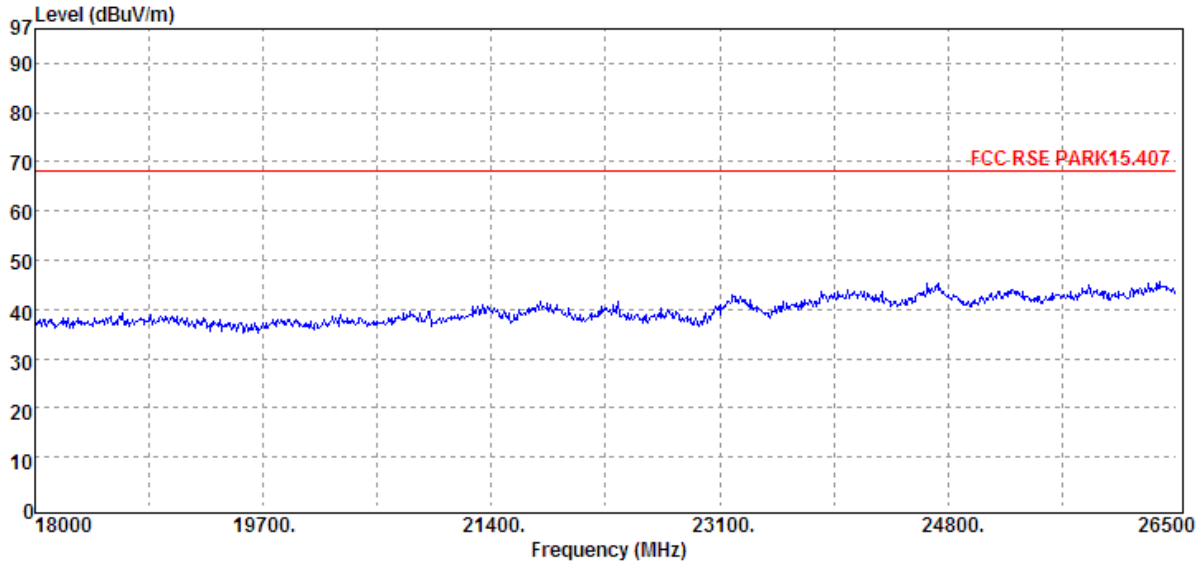
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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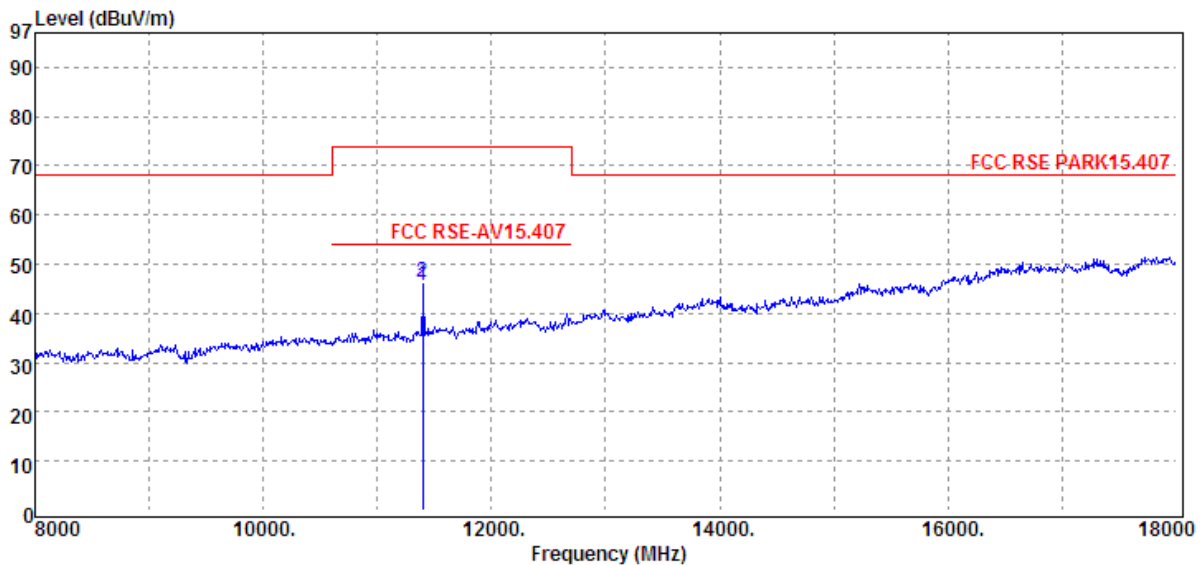
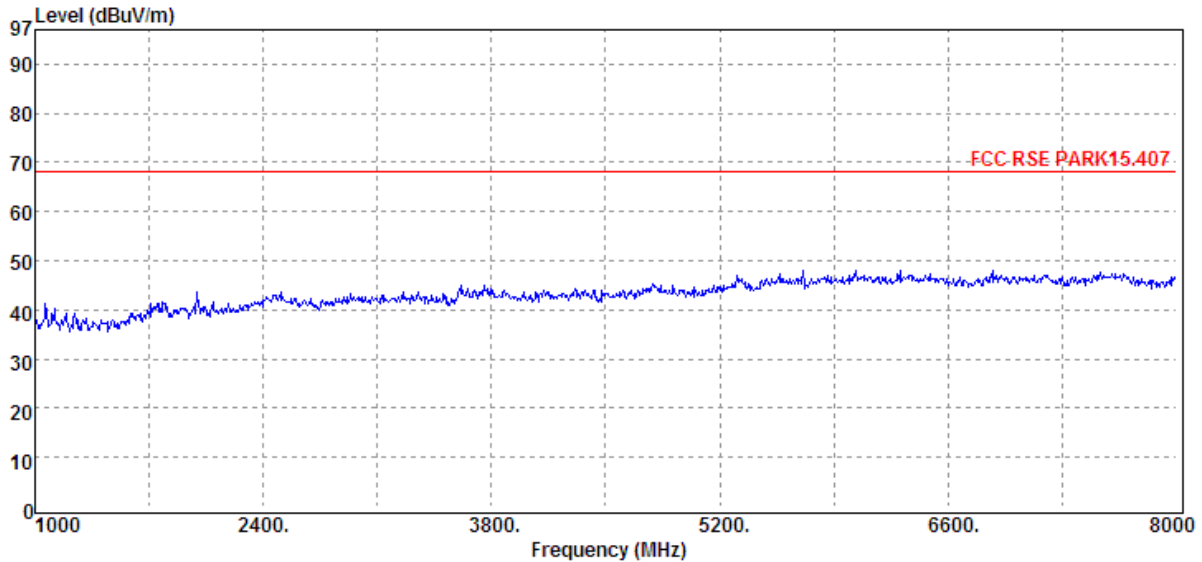


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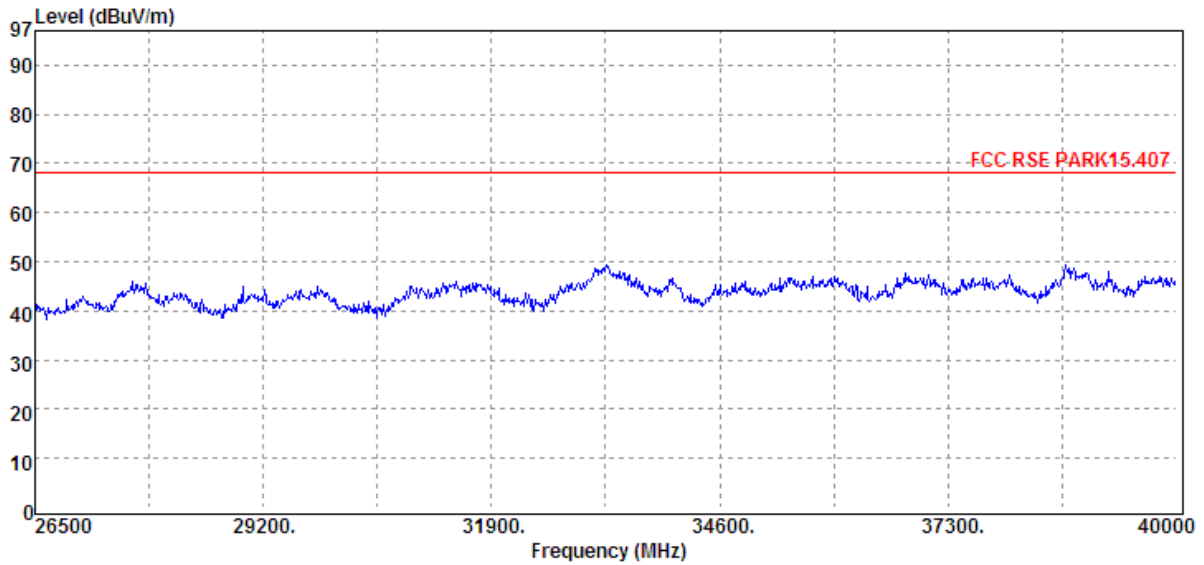
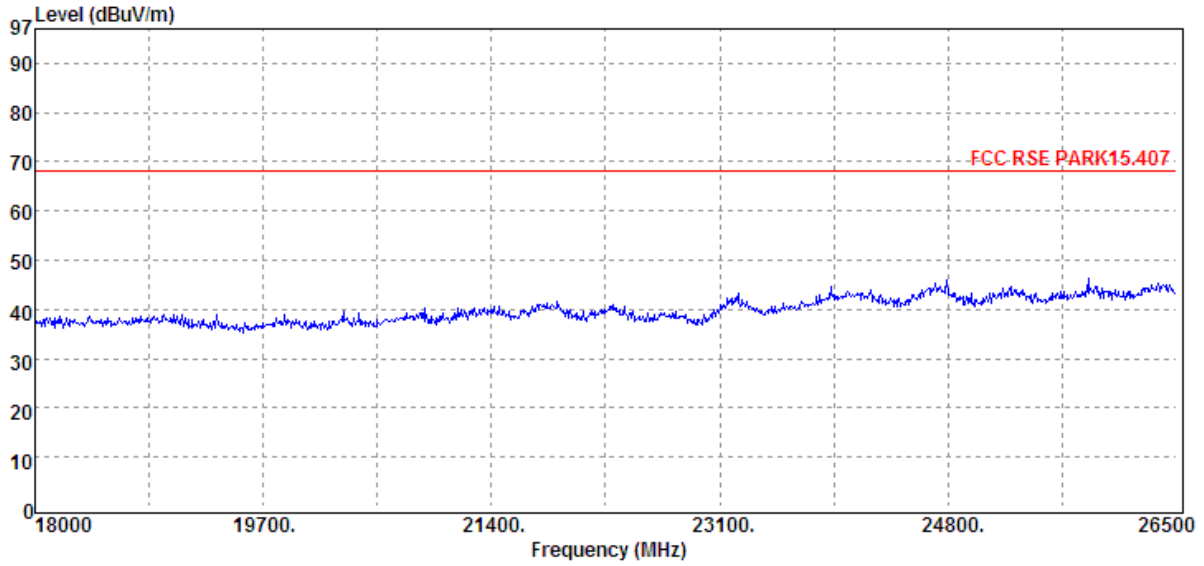
Operation Band	:802.11 a	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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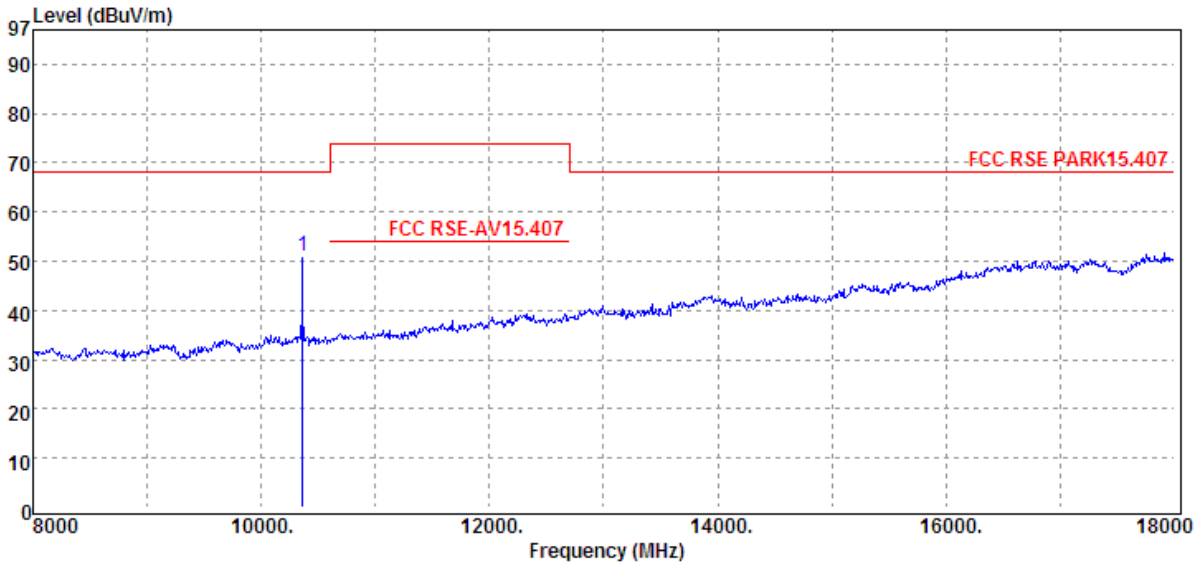
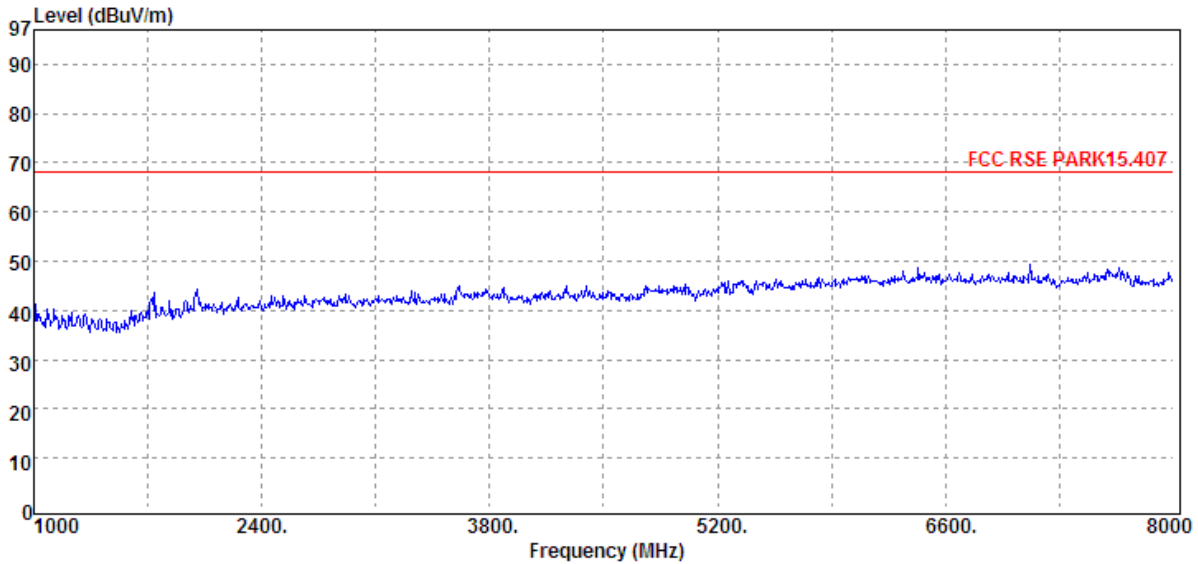
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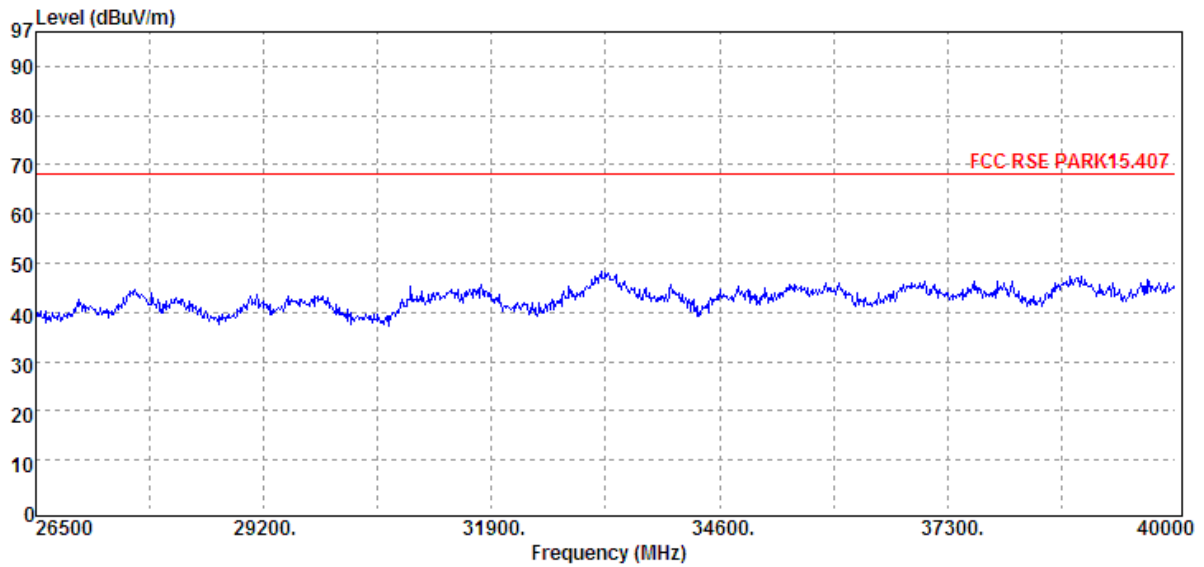
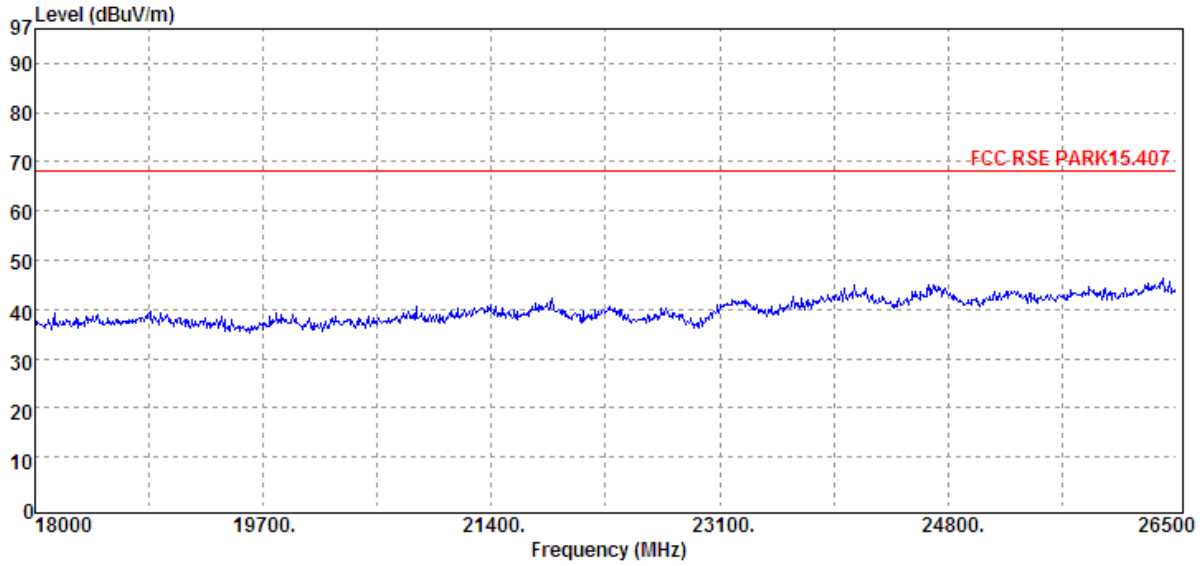
802.11n_20MHz 5150-5250MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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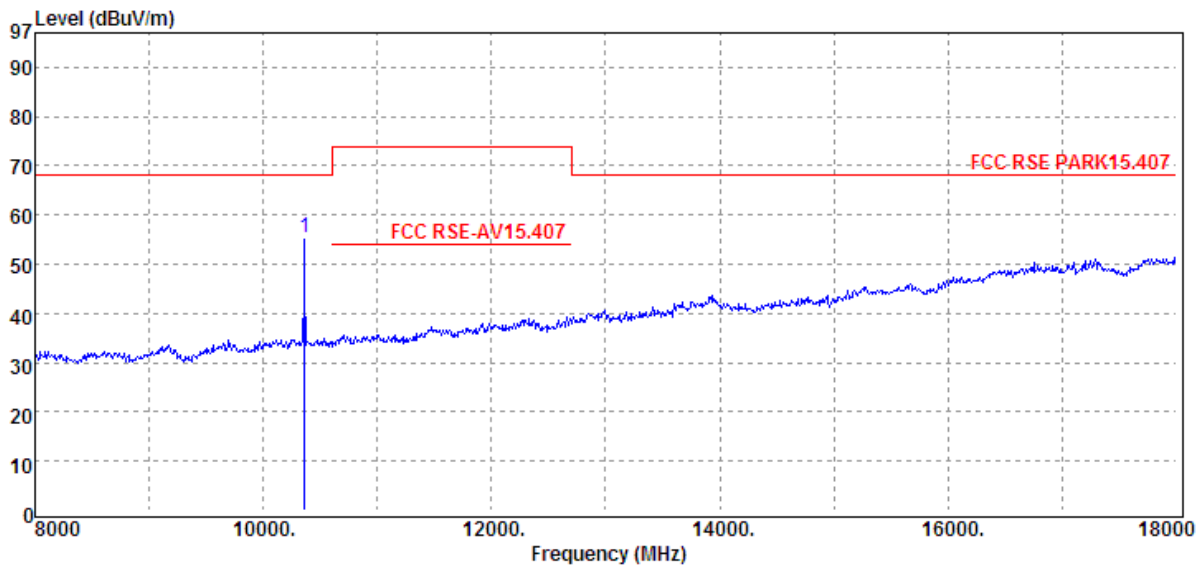
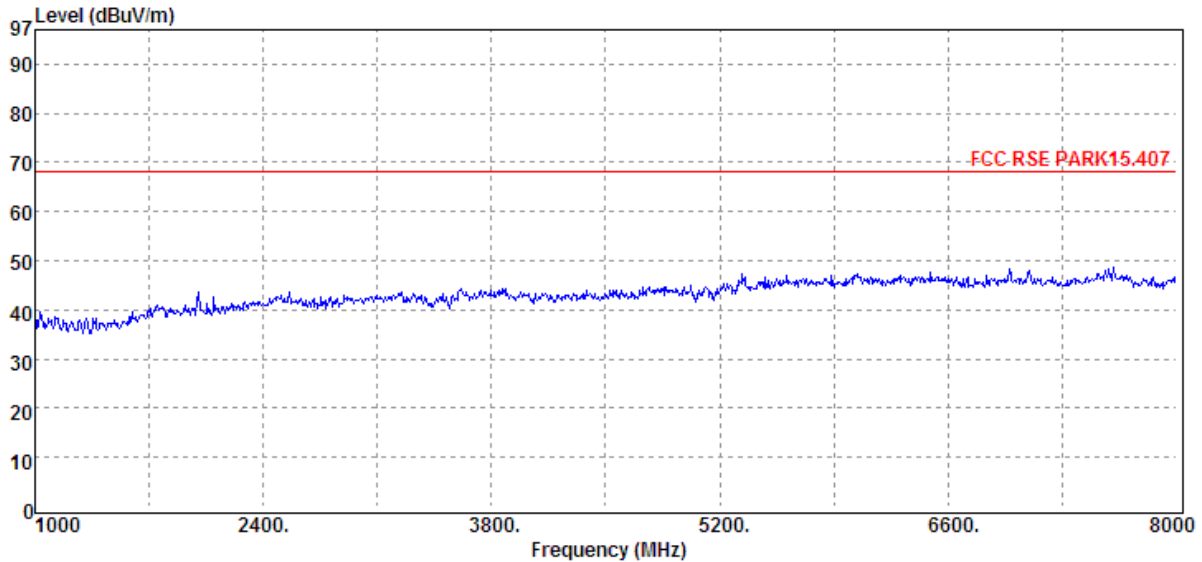
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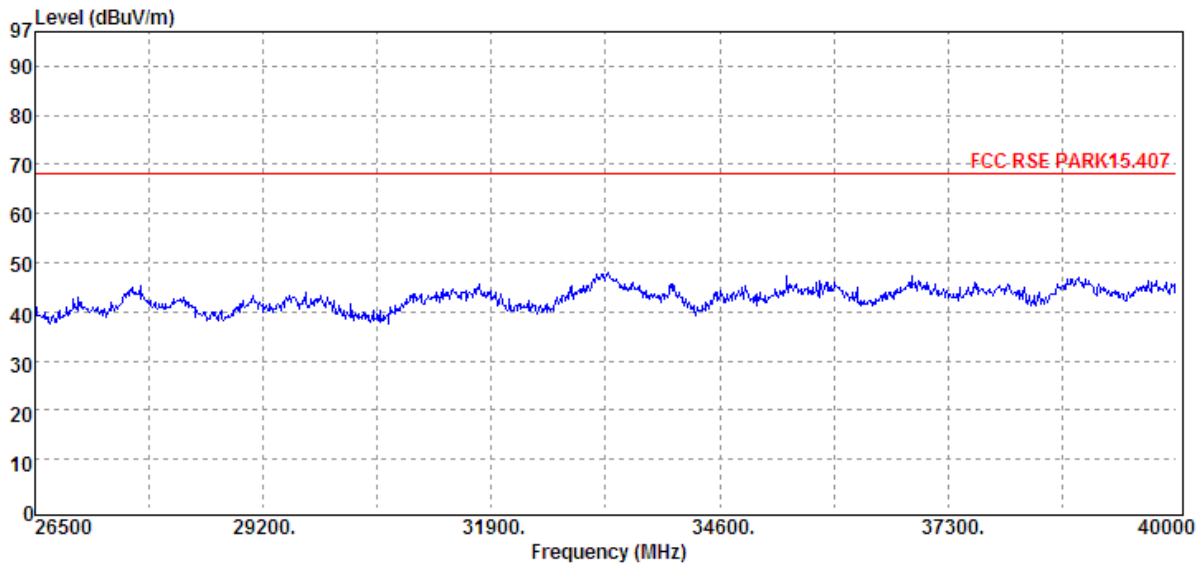
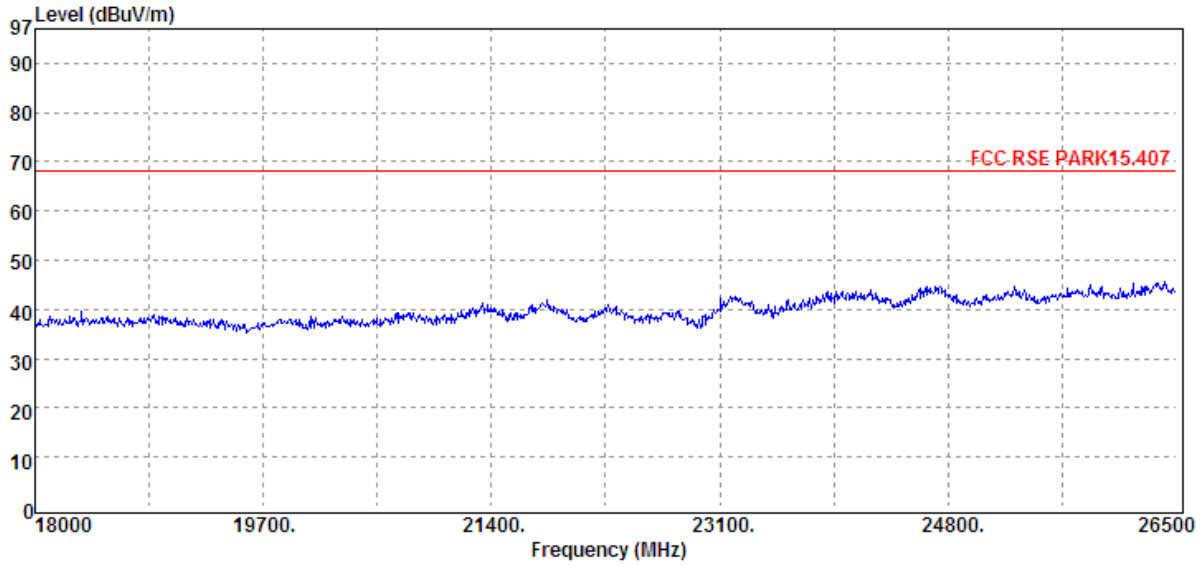
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5180 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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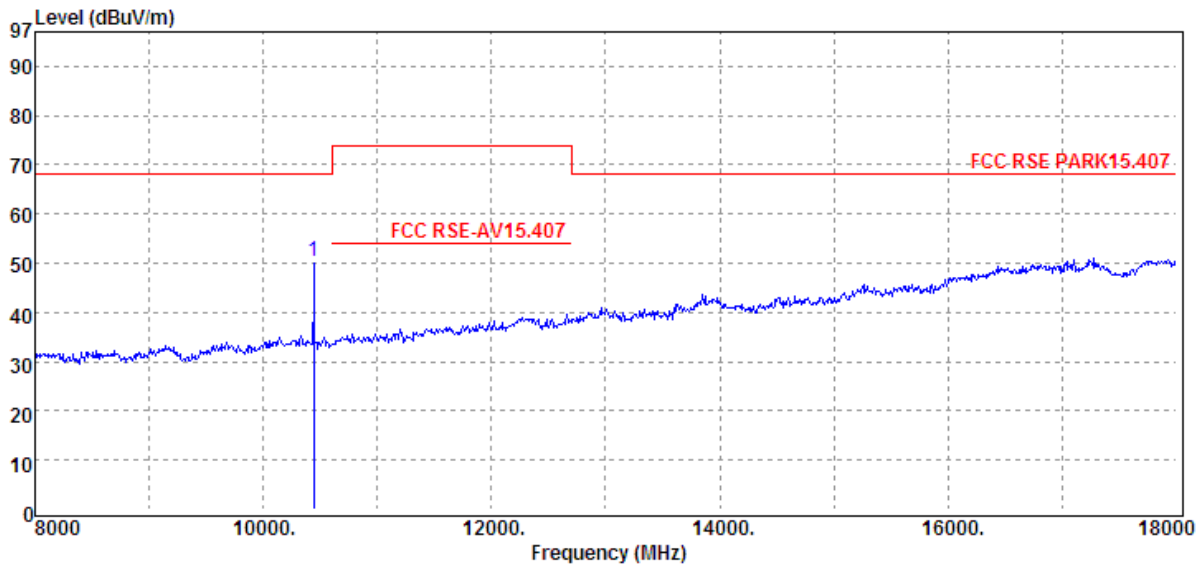
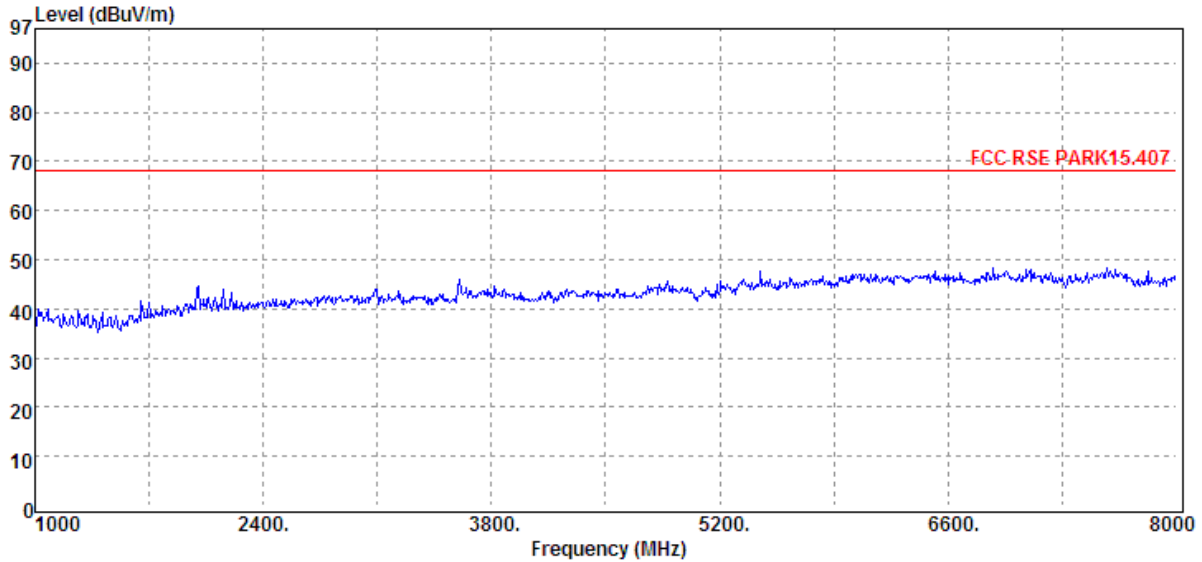


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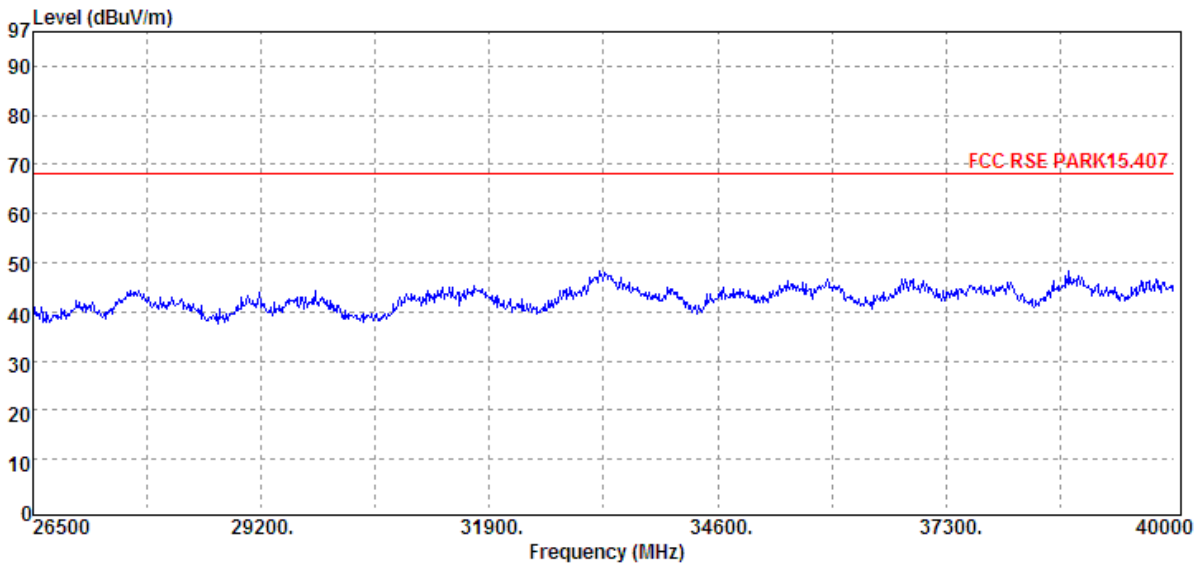
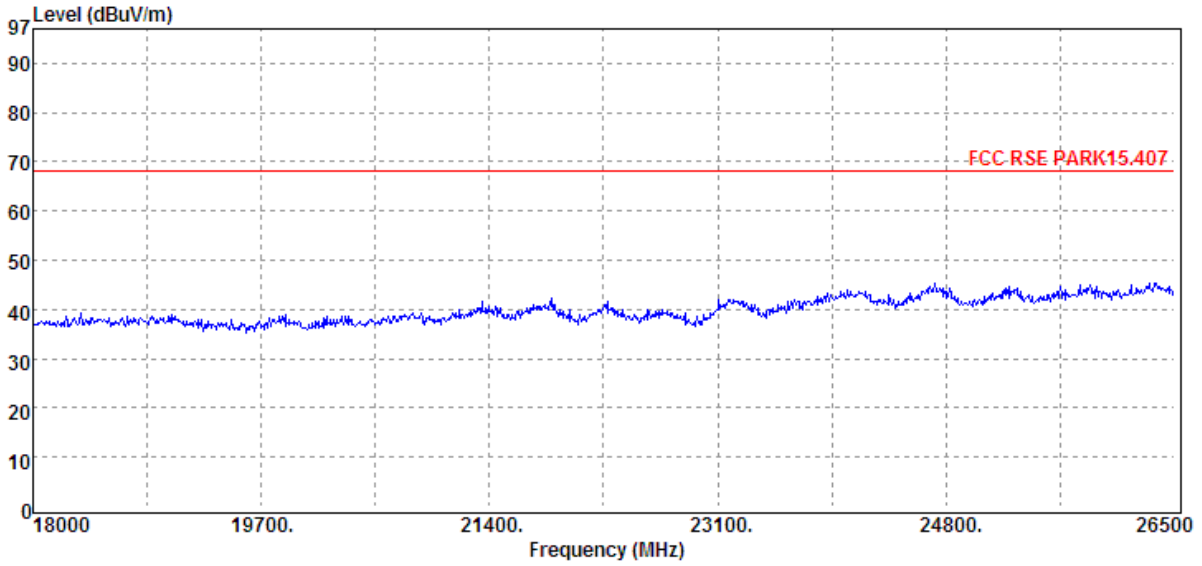
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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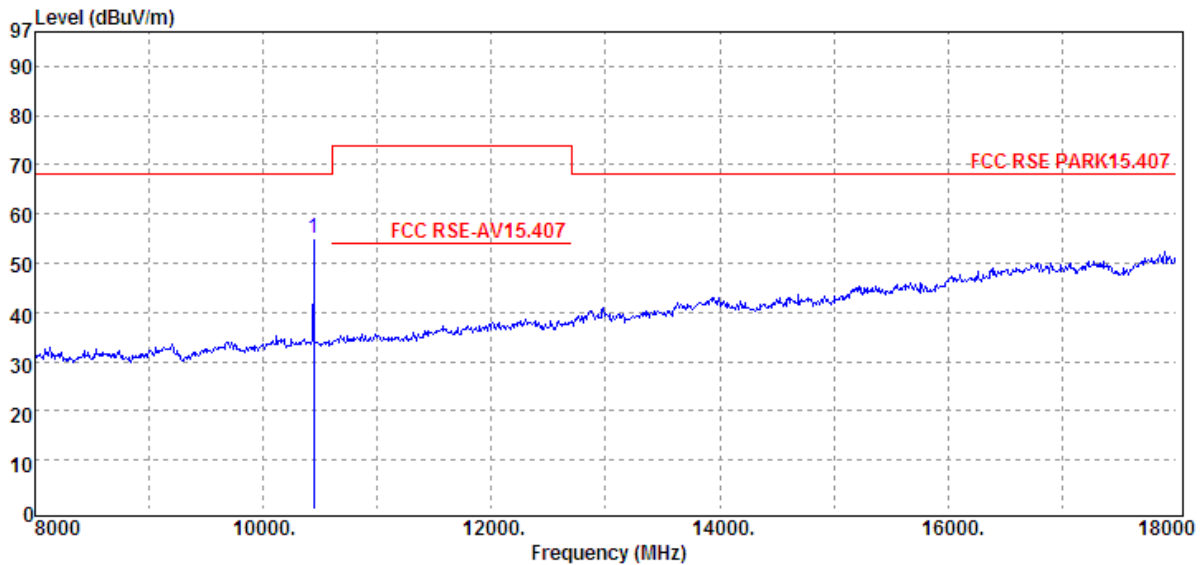
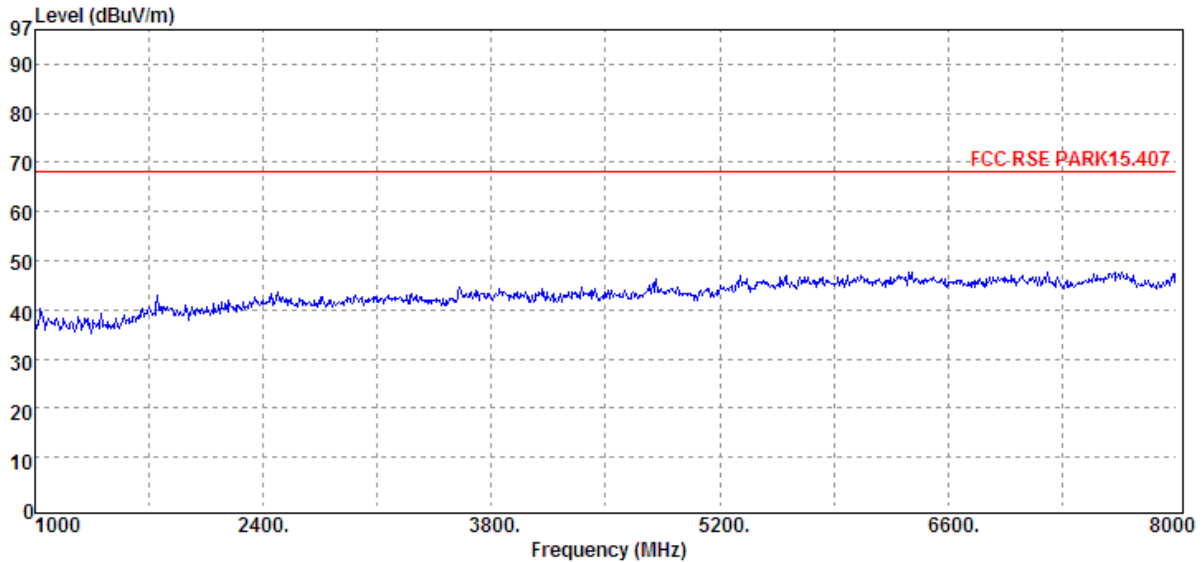


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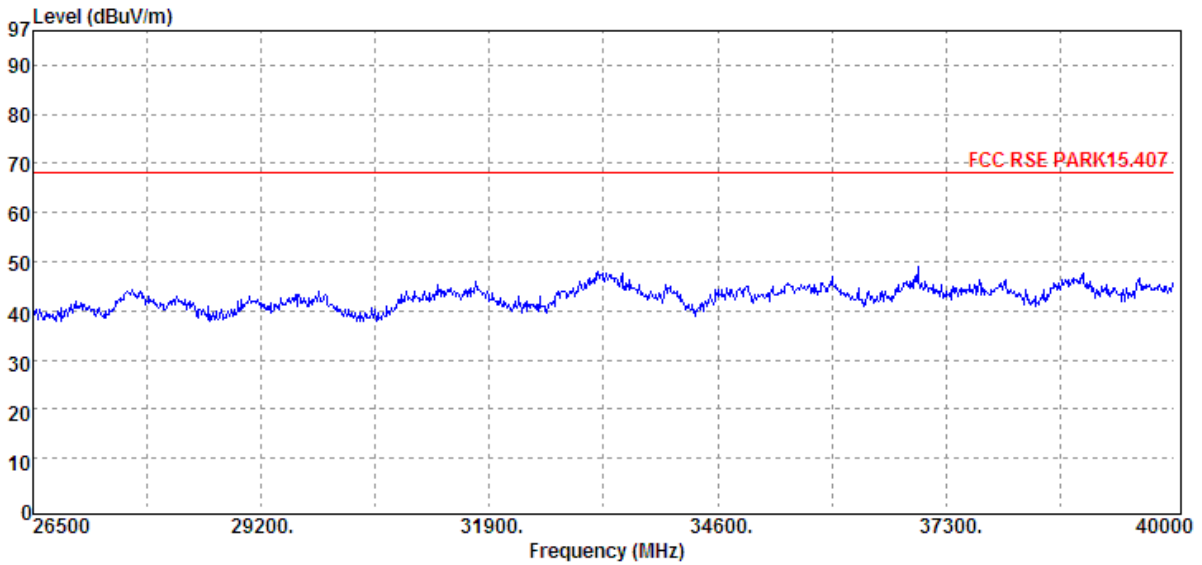
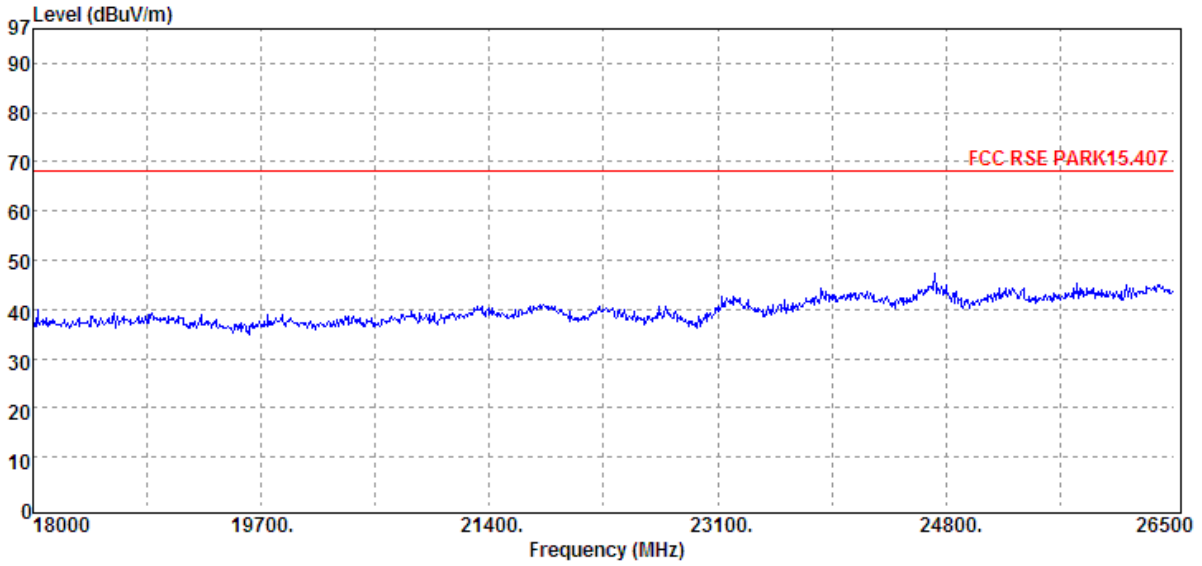
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5220 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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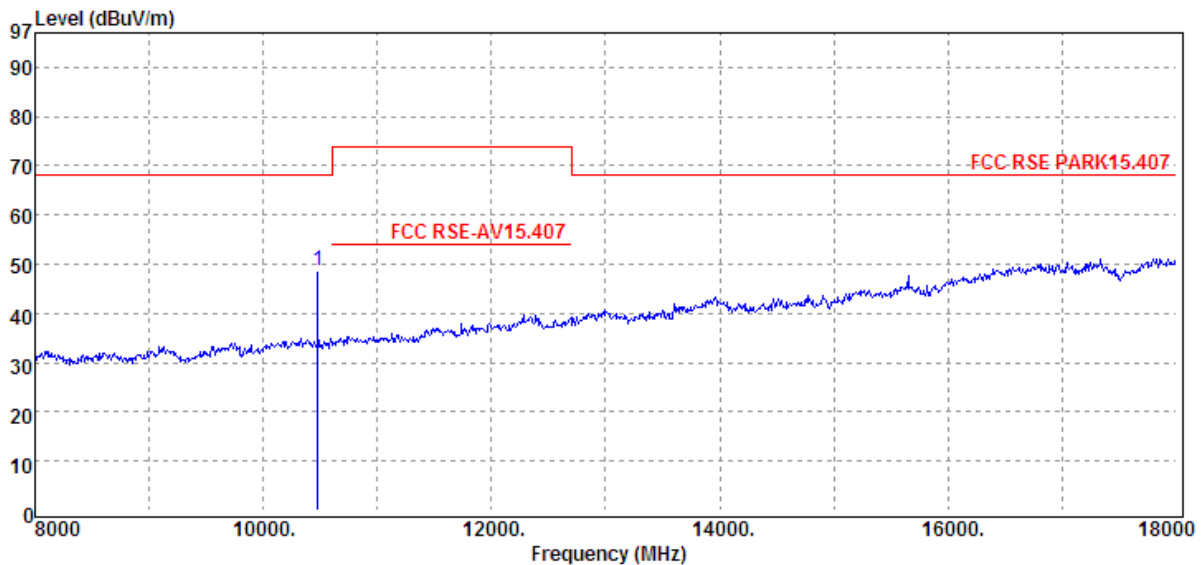
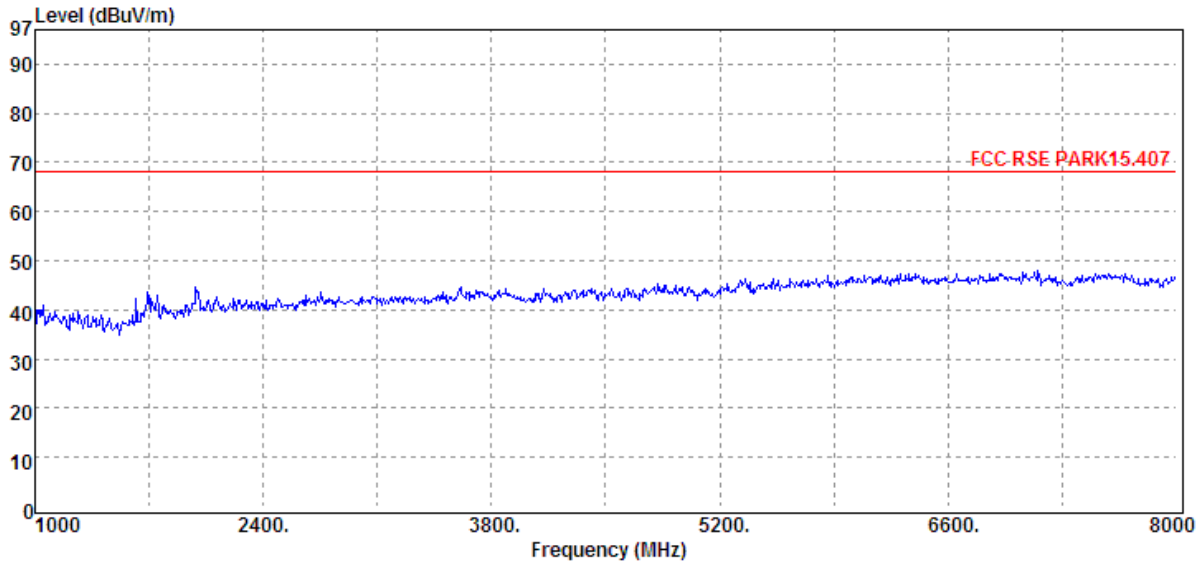


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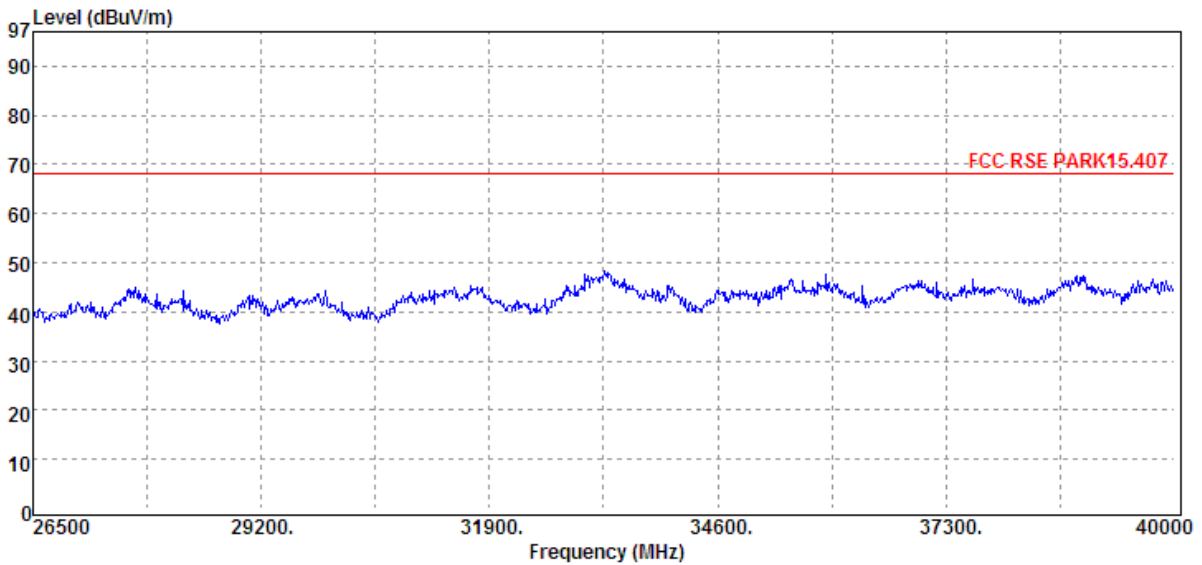
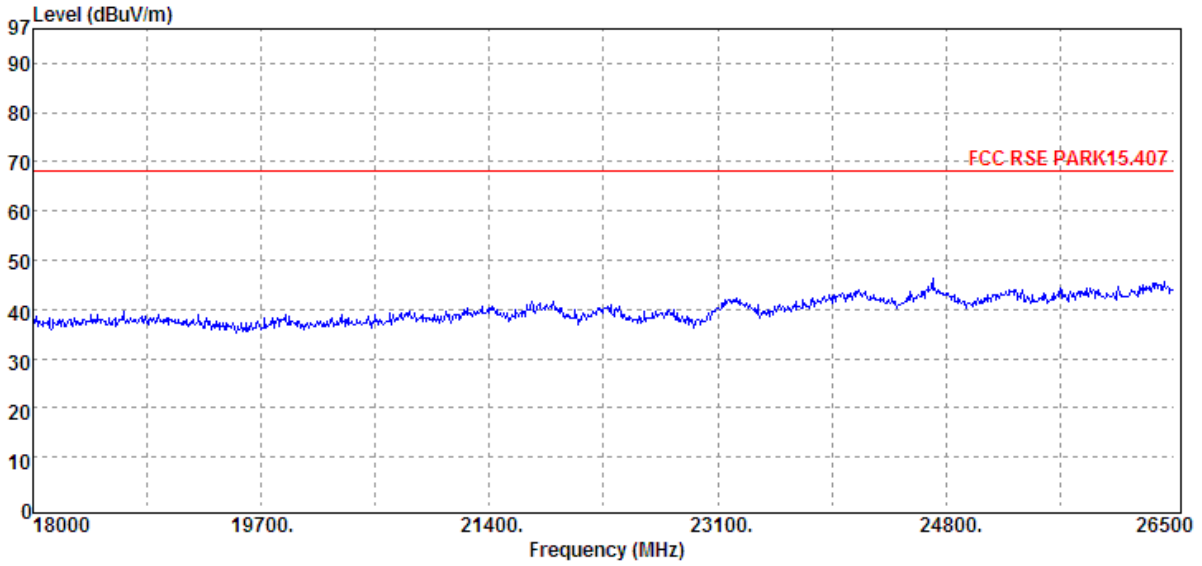
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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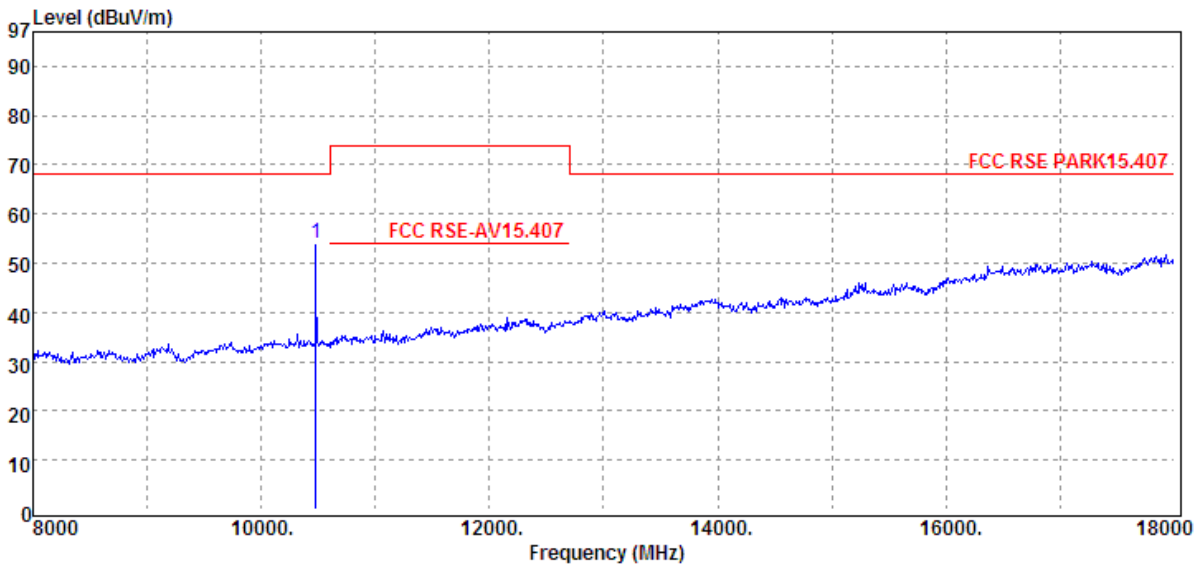
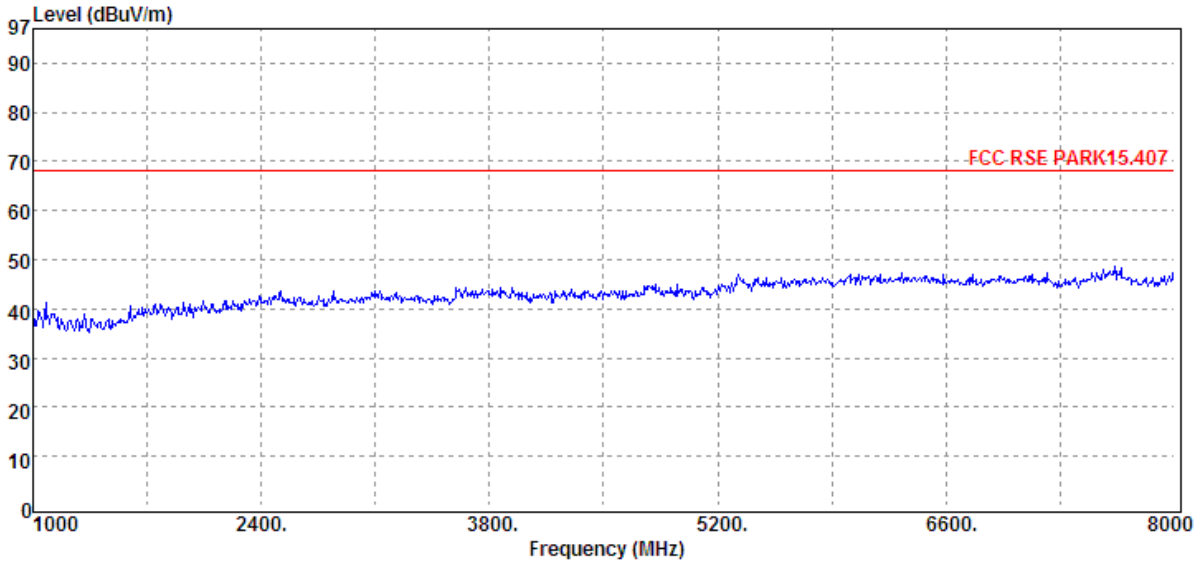


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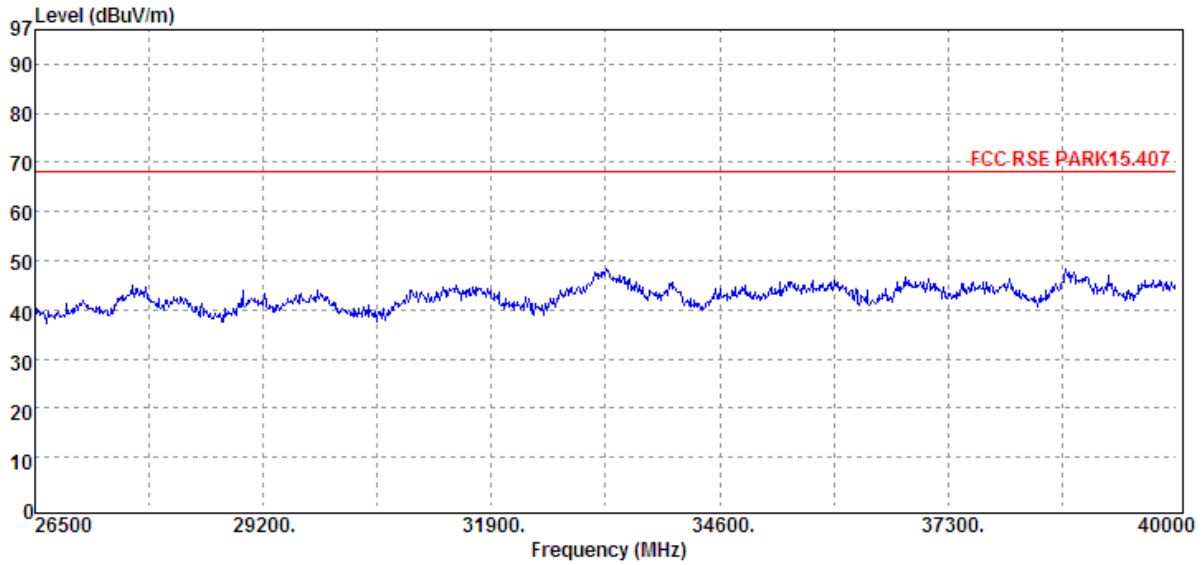
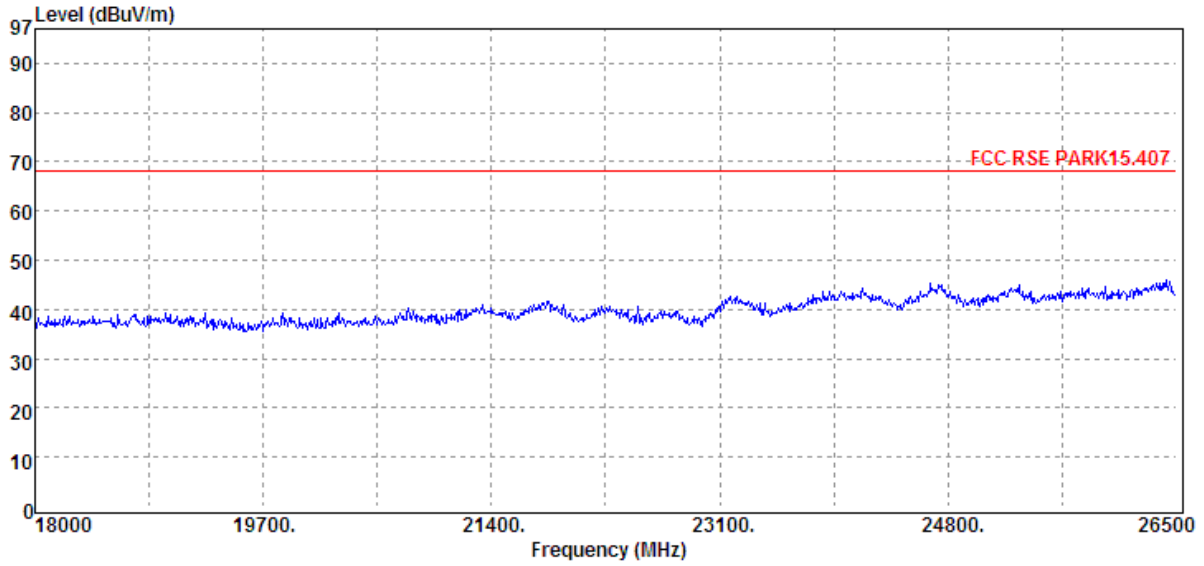
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5240 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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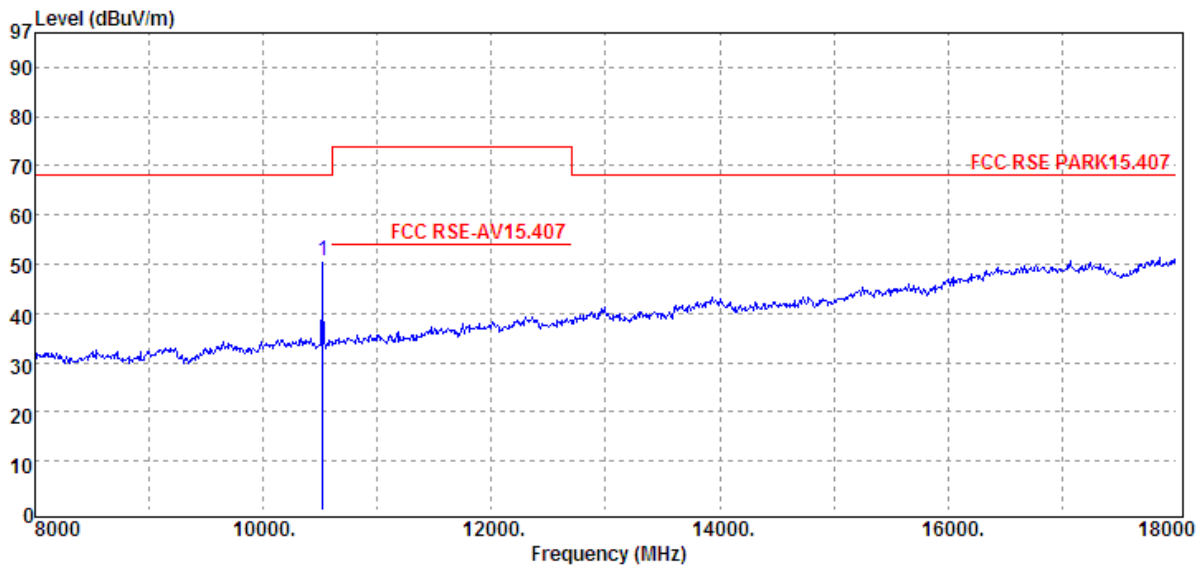
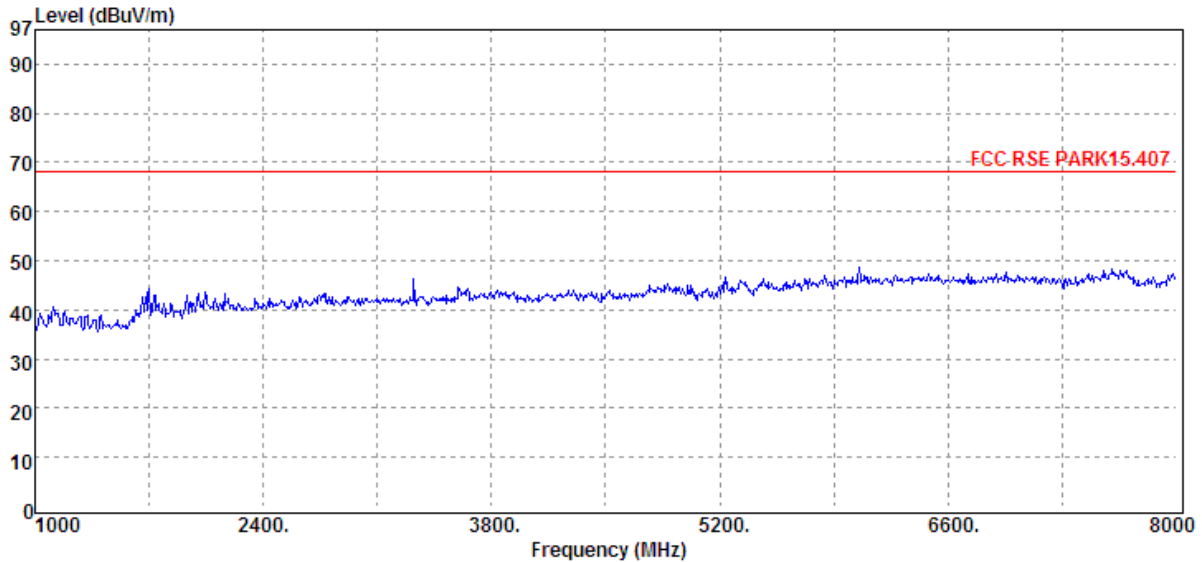
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802.11n HT20 5250-5350MHz

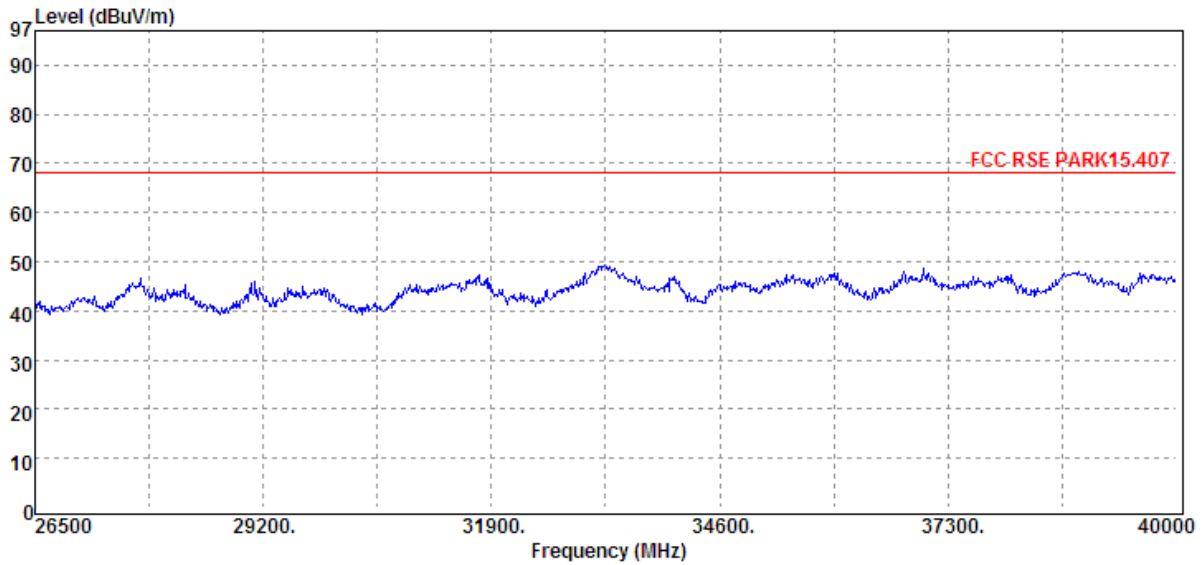
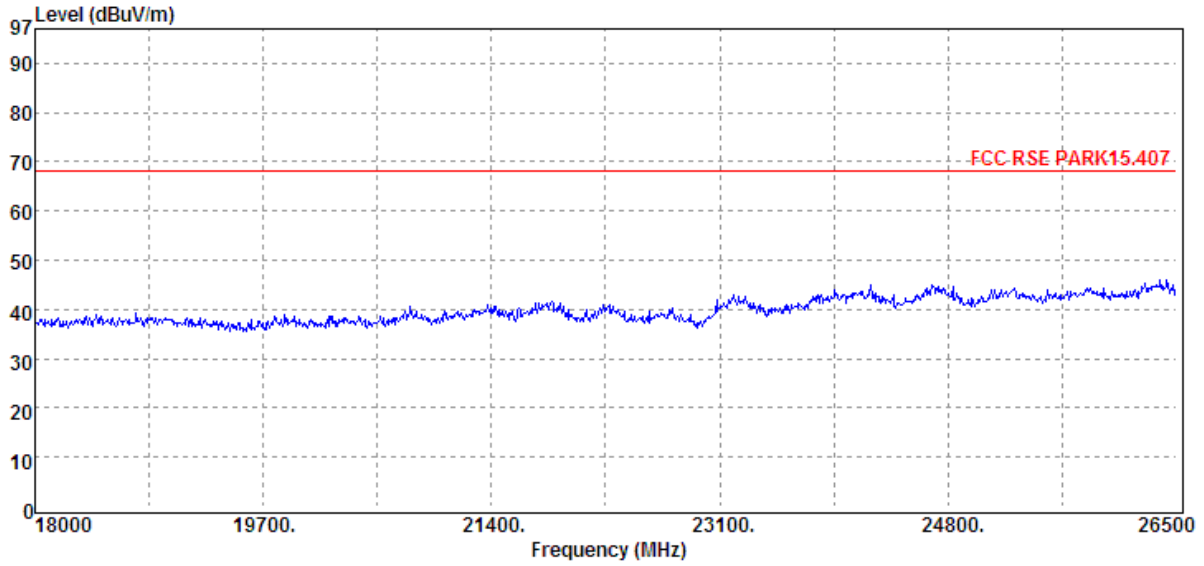
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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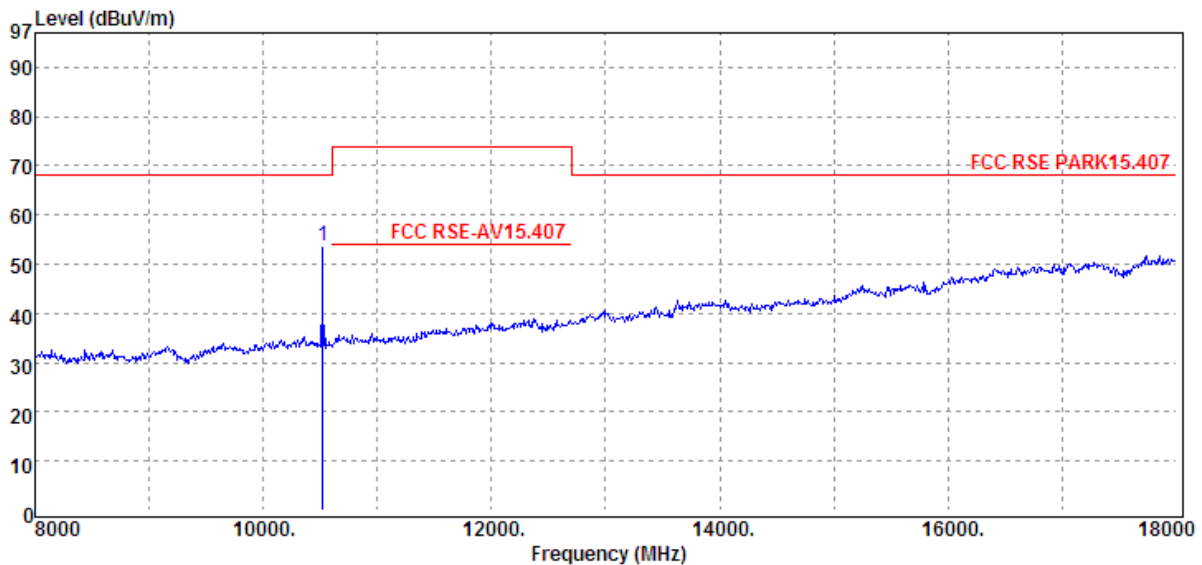
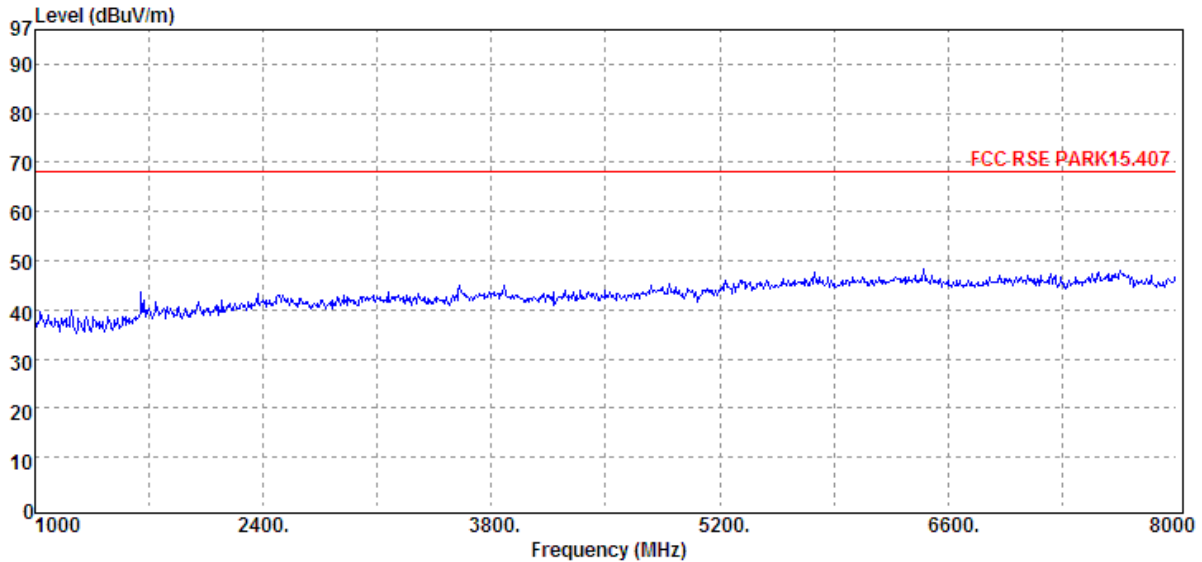


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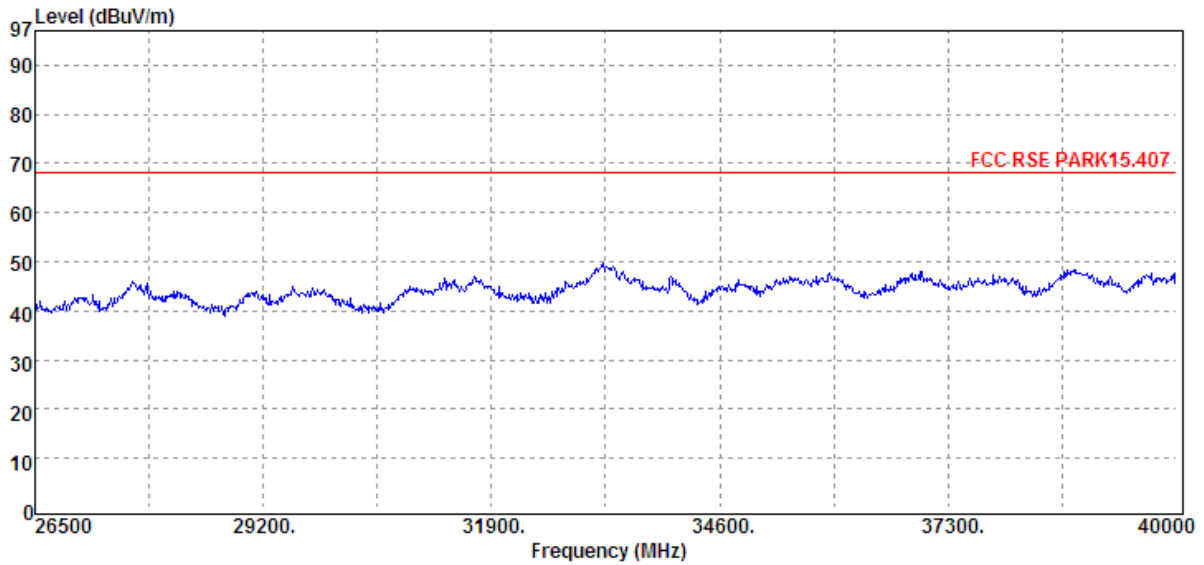
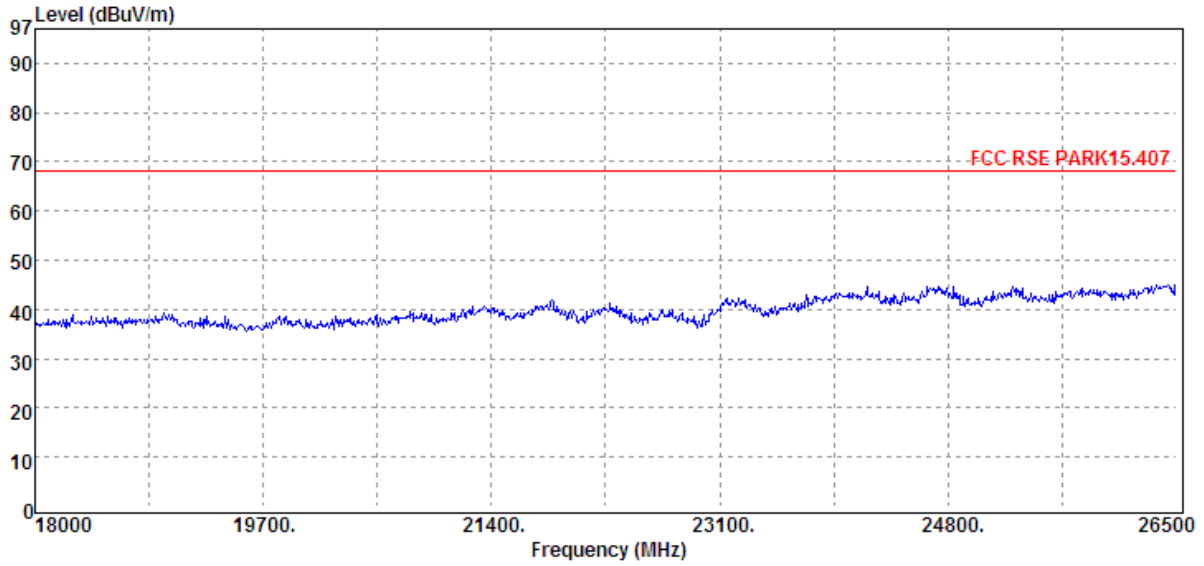
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5260 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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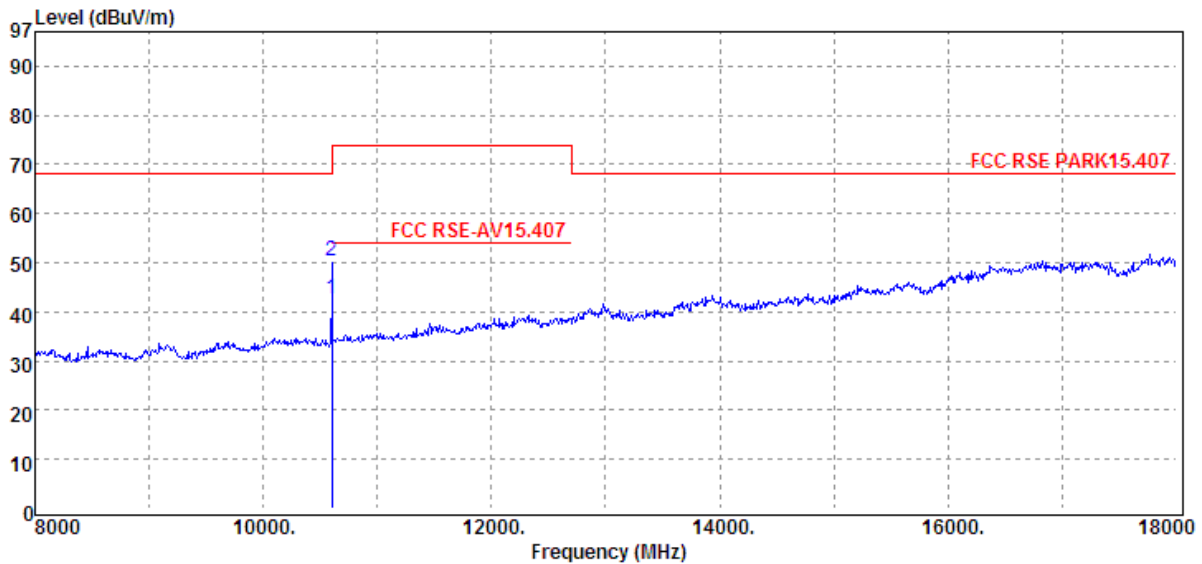
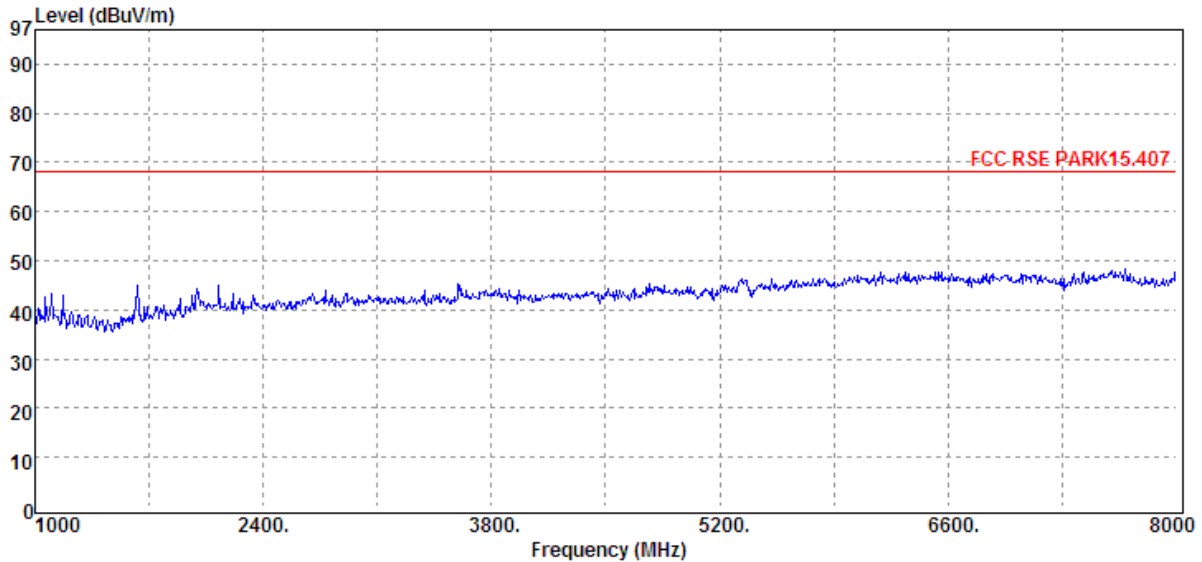


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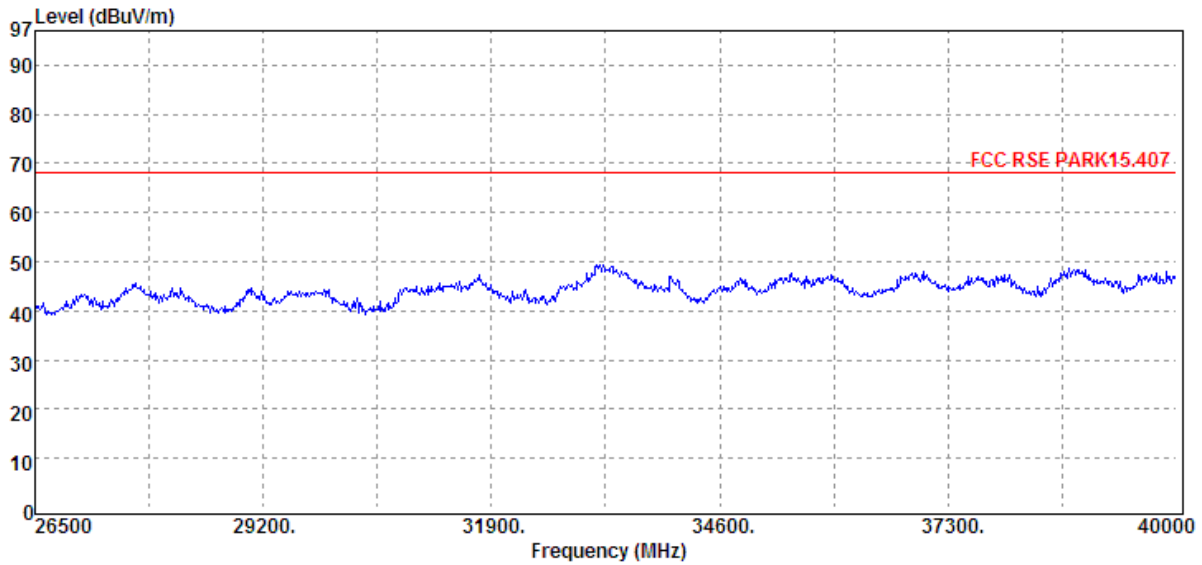
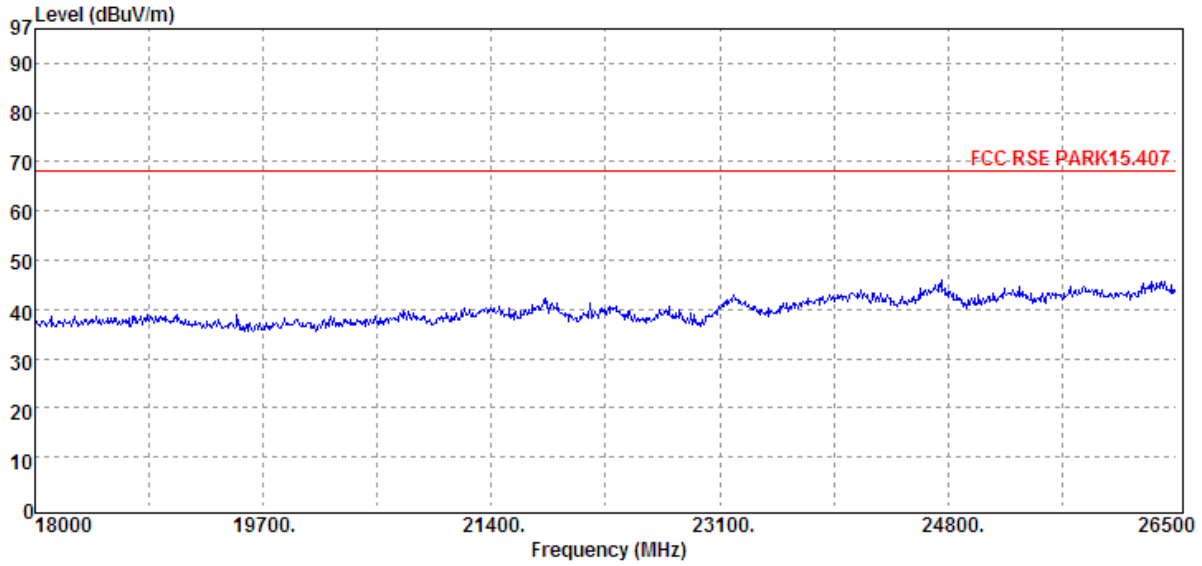
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Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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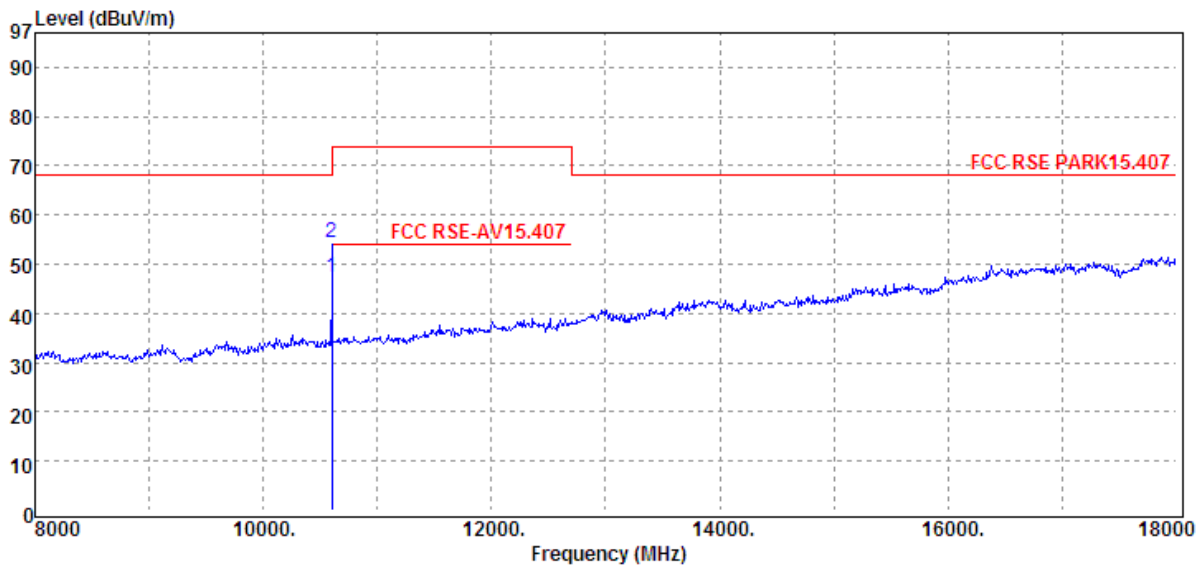
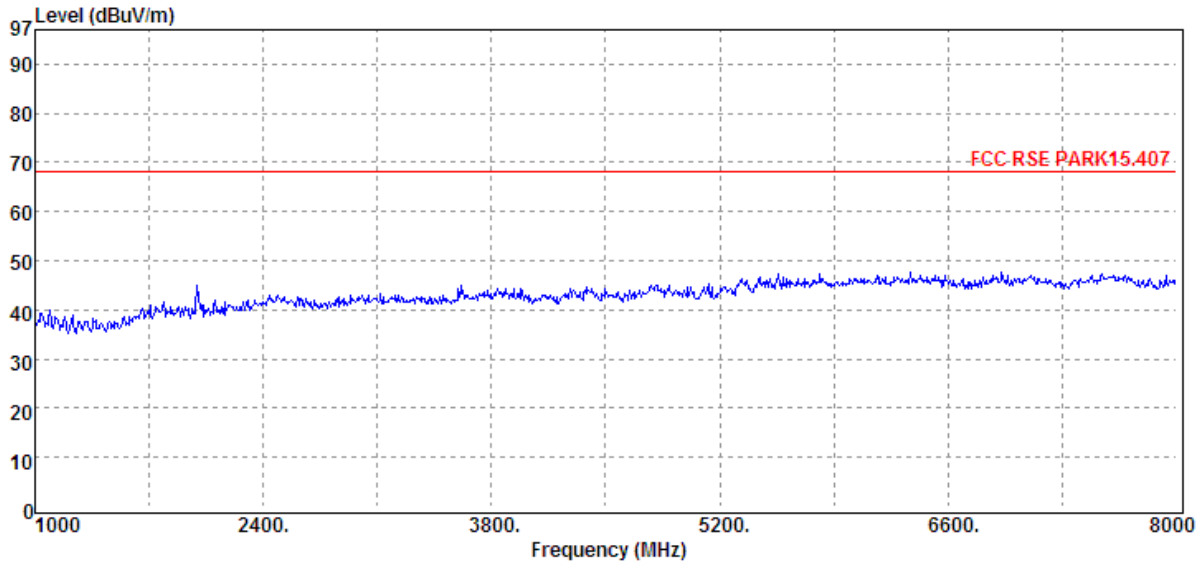


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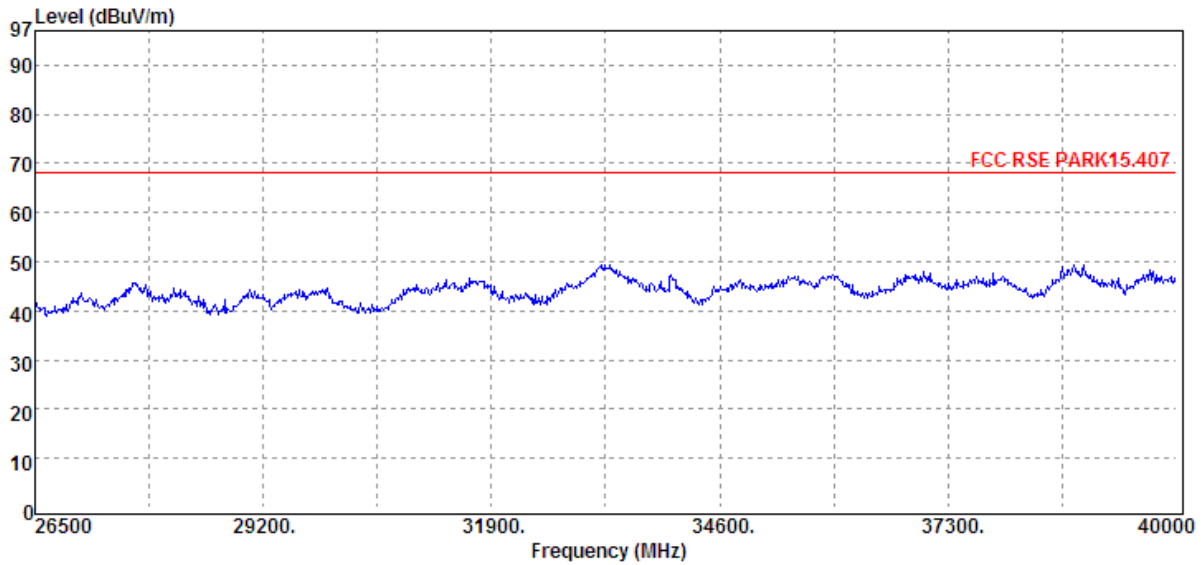
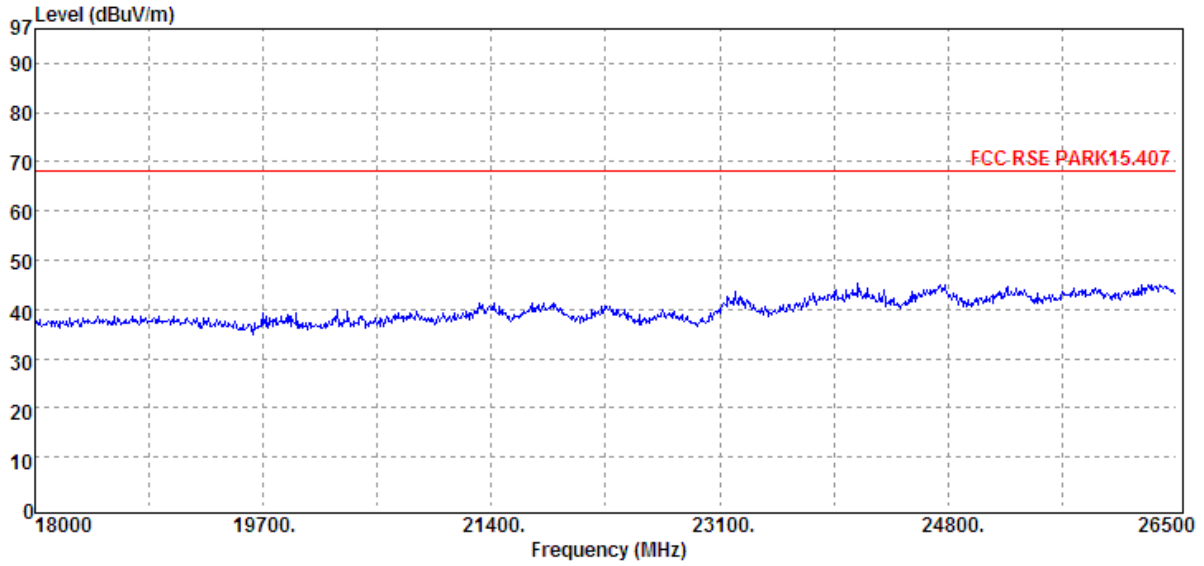
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5300 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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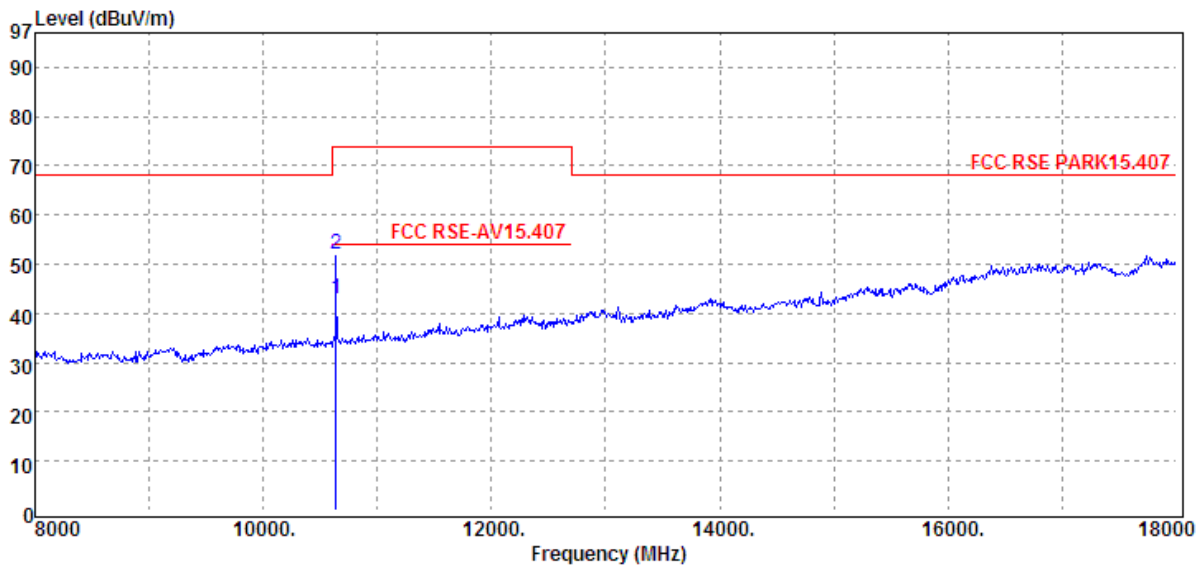
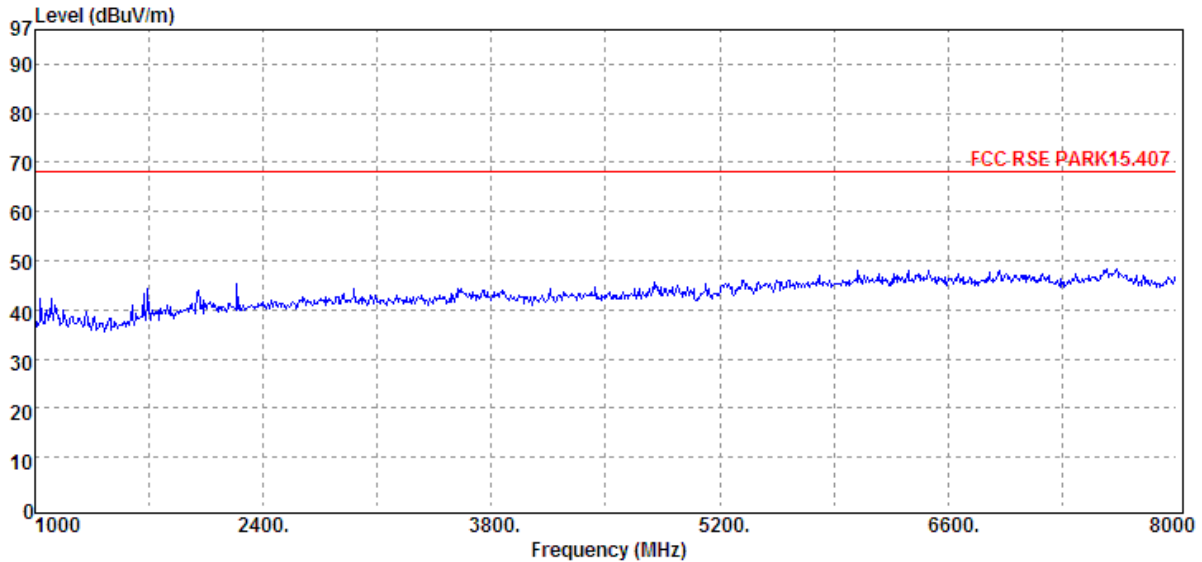


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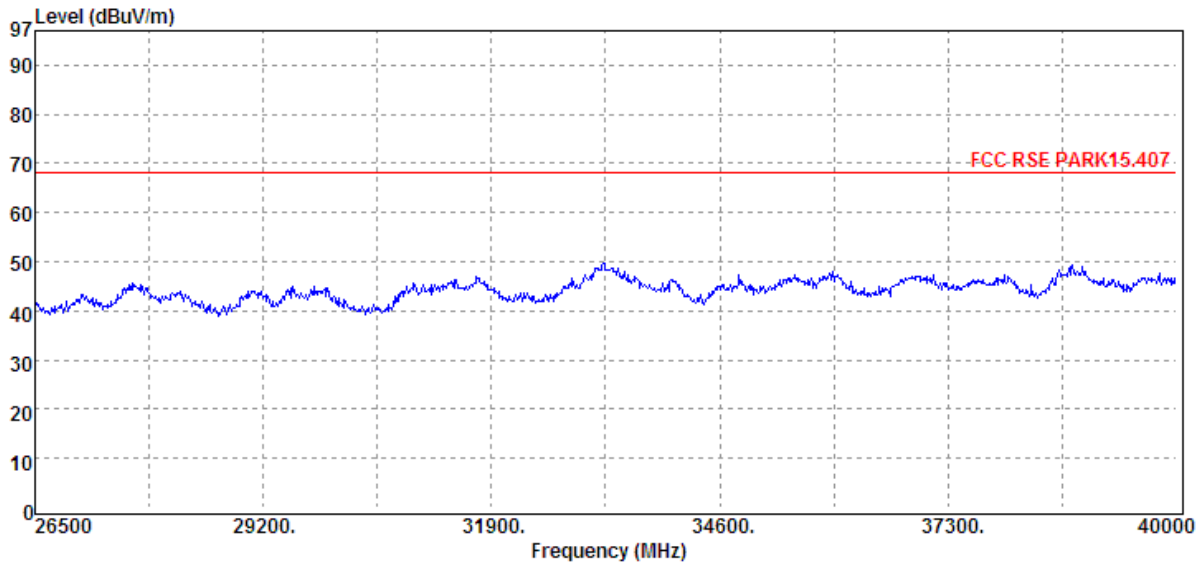
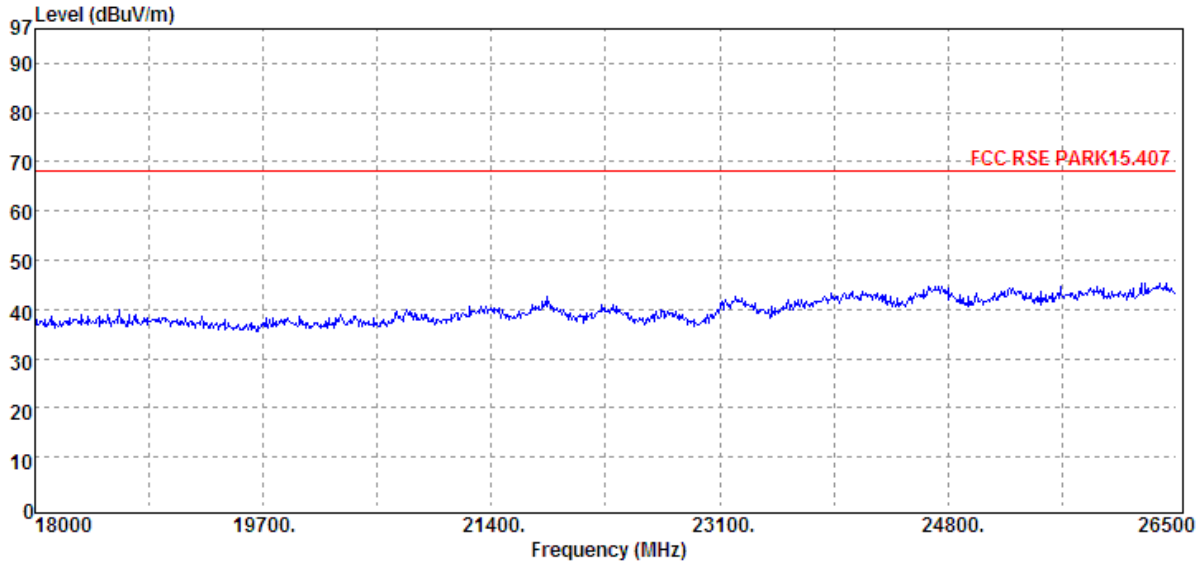
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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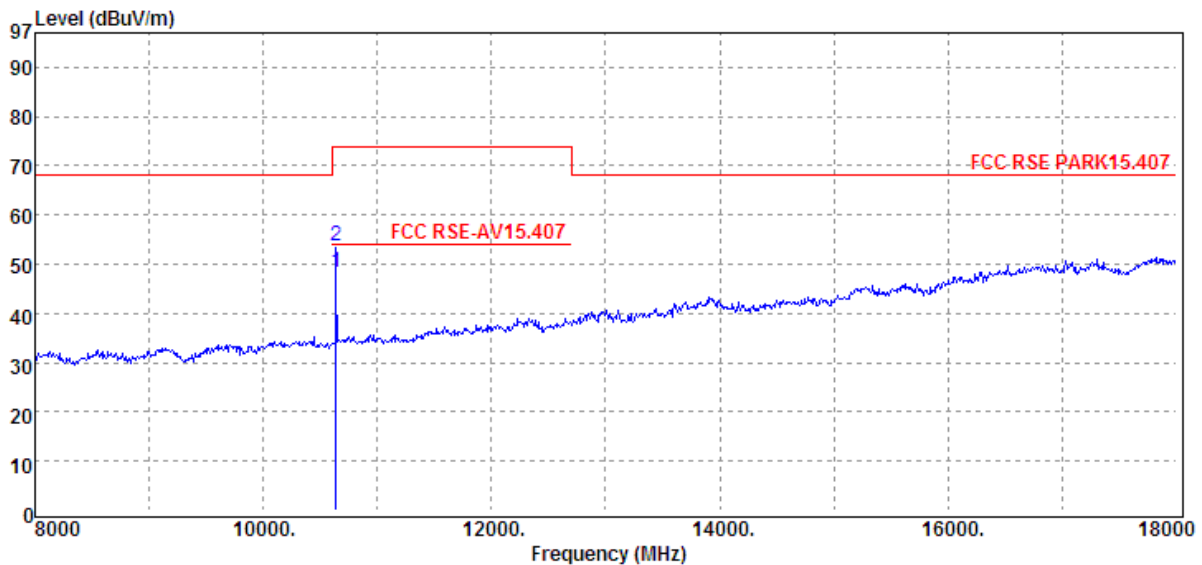
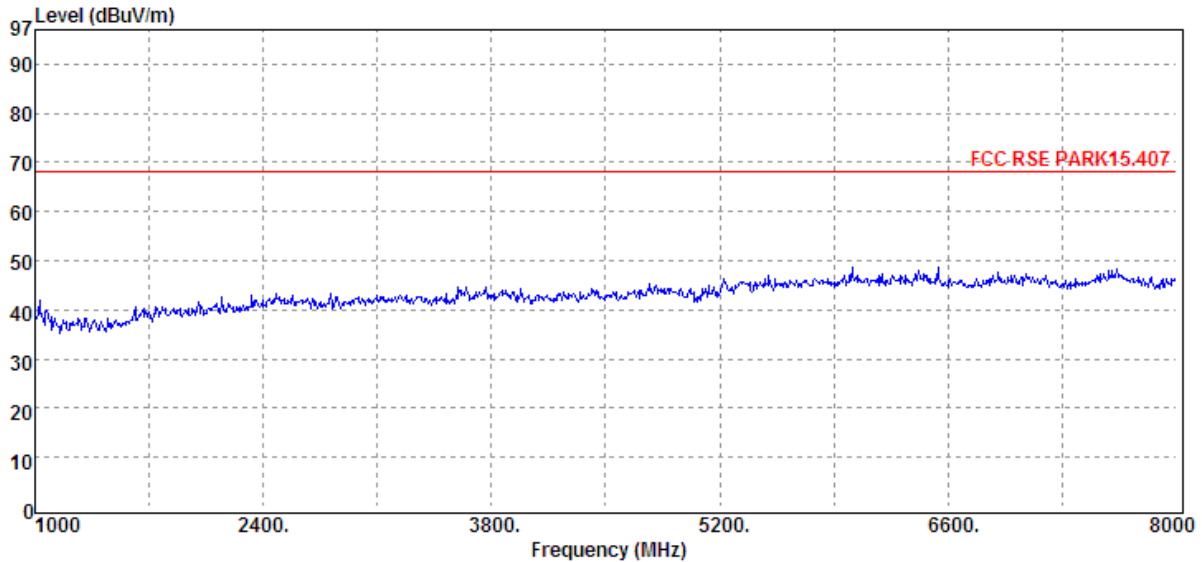


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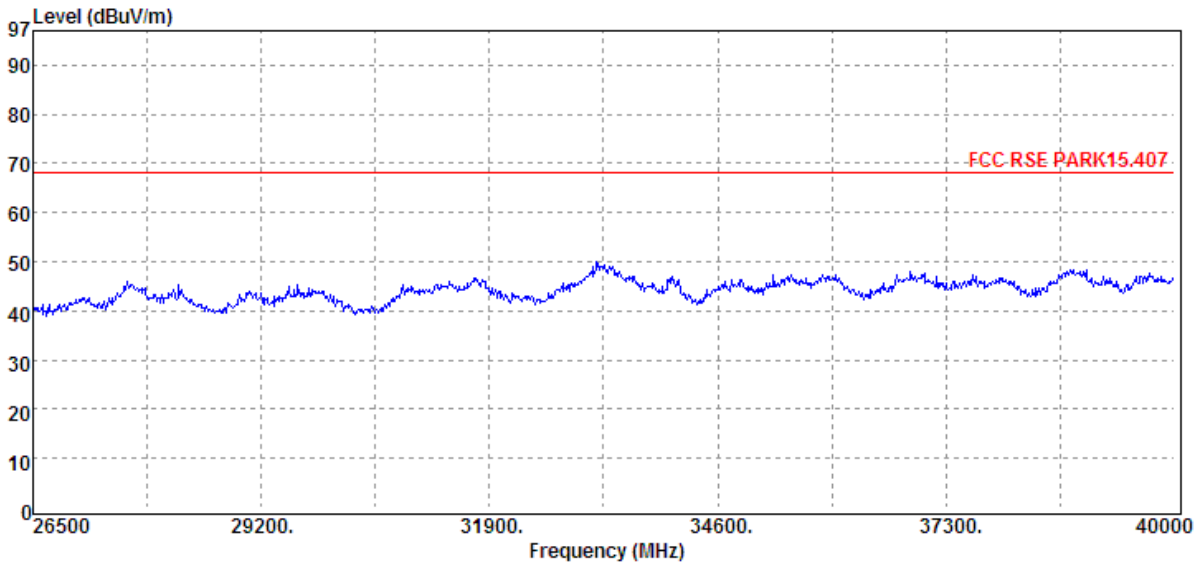
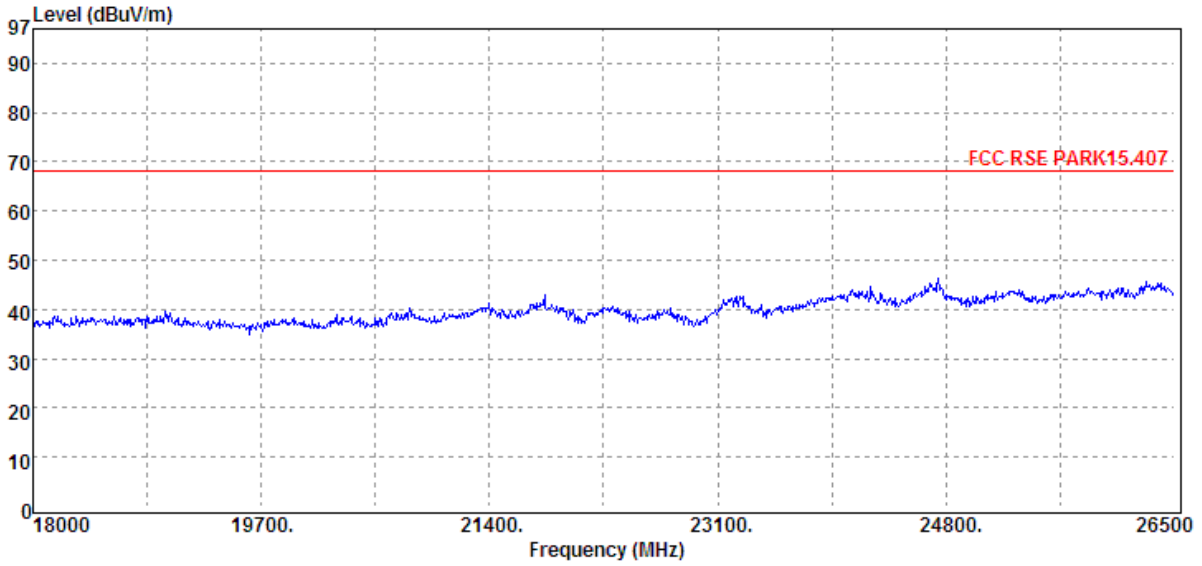
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5320 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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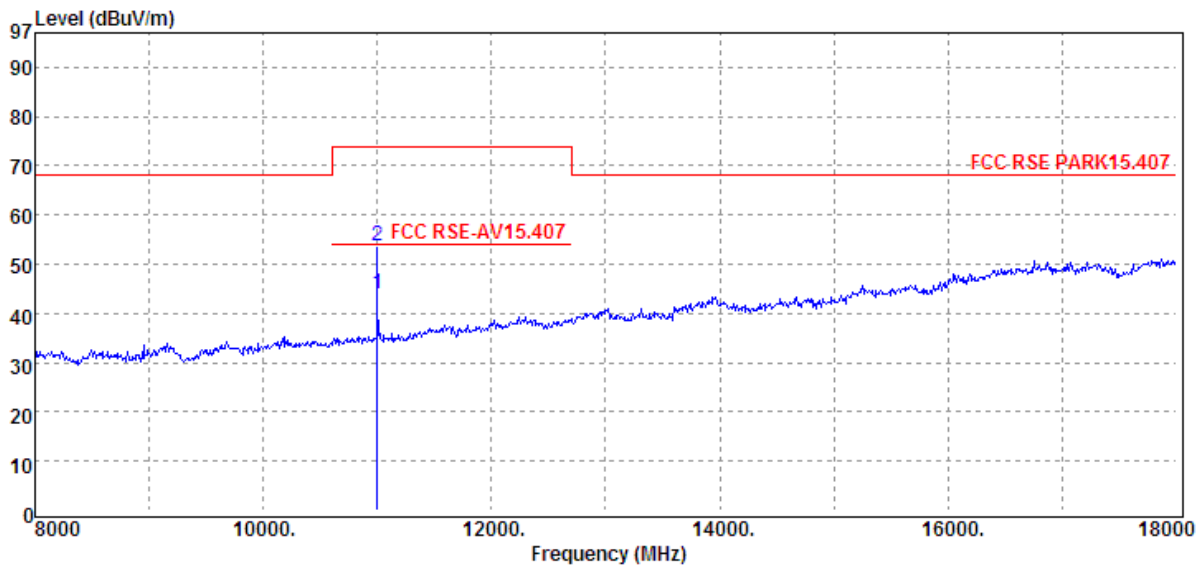
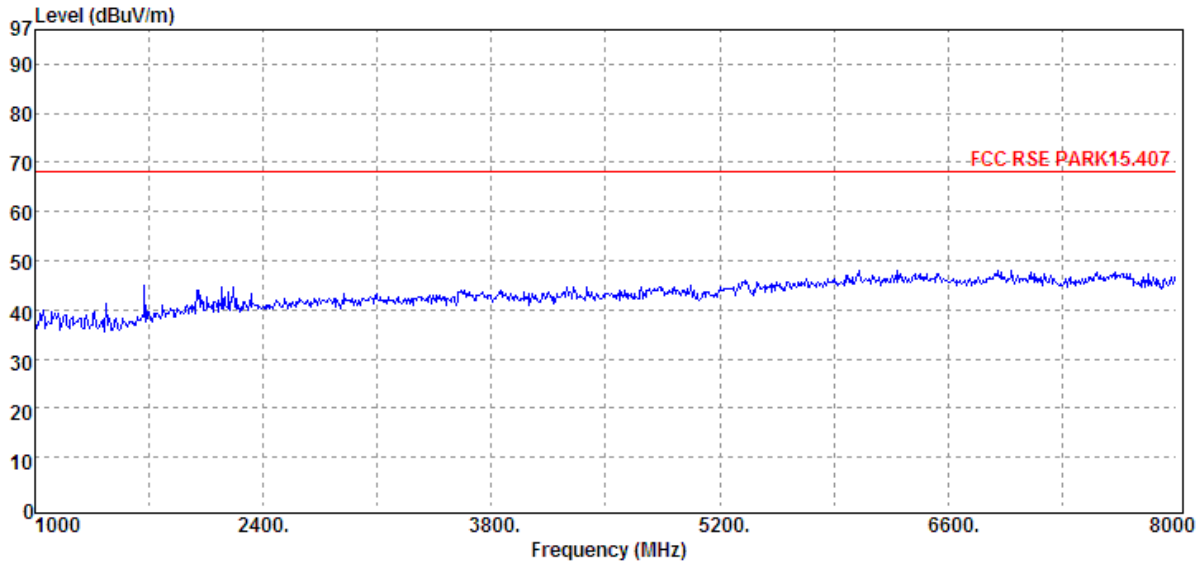
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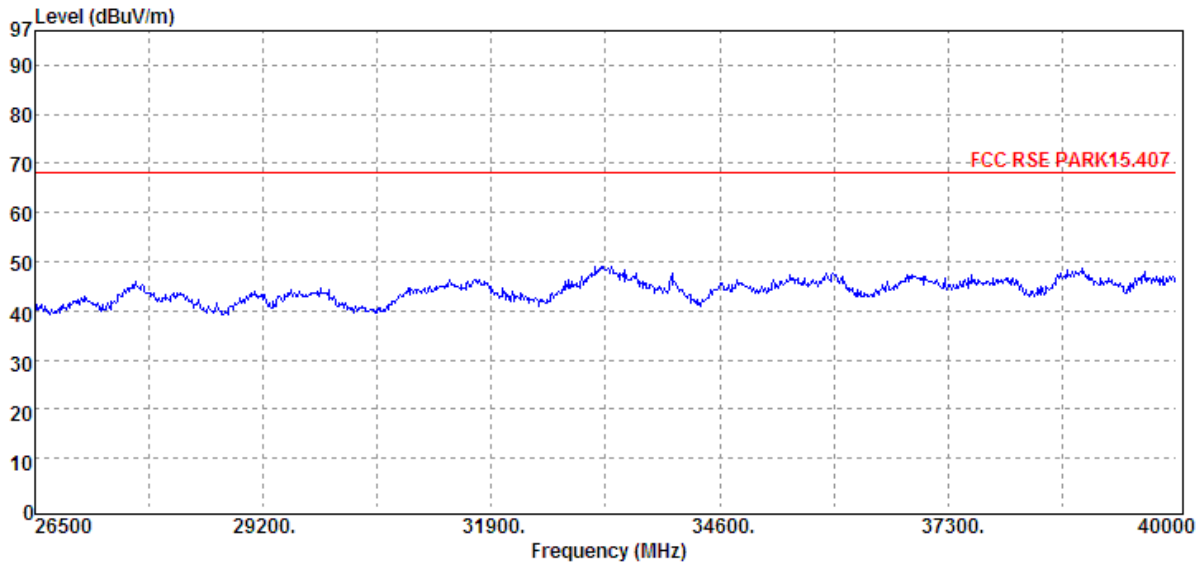
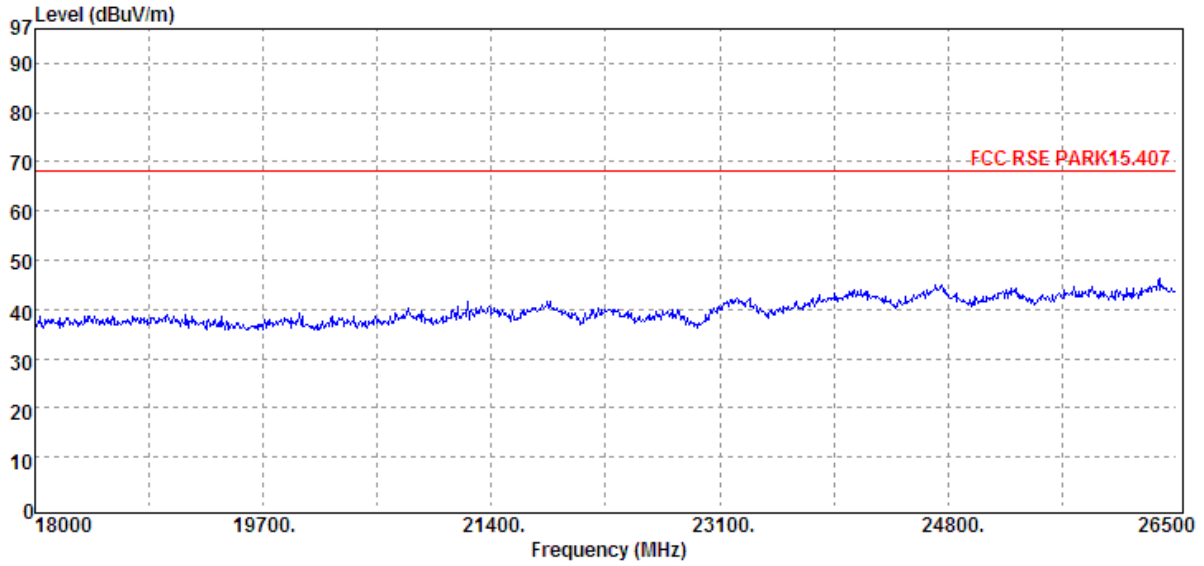
802.11n_20MHz 5470-5725MHz

Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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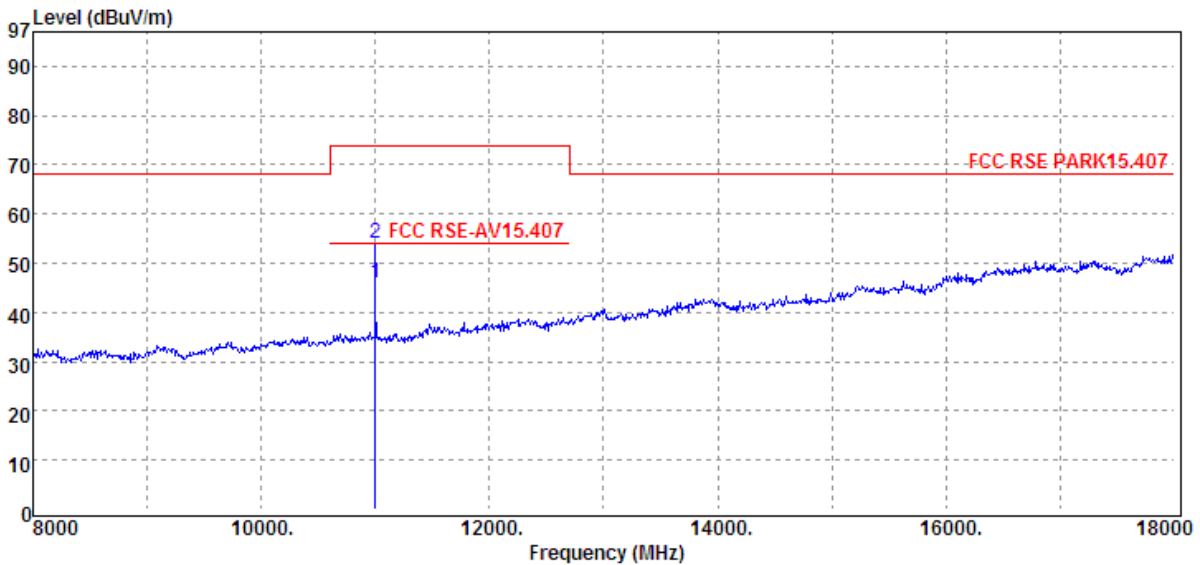
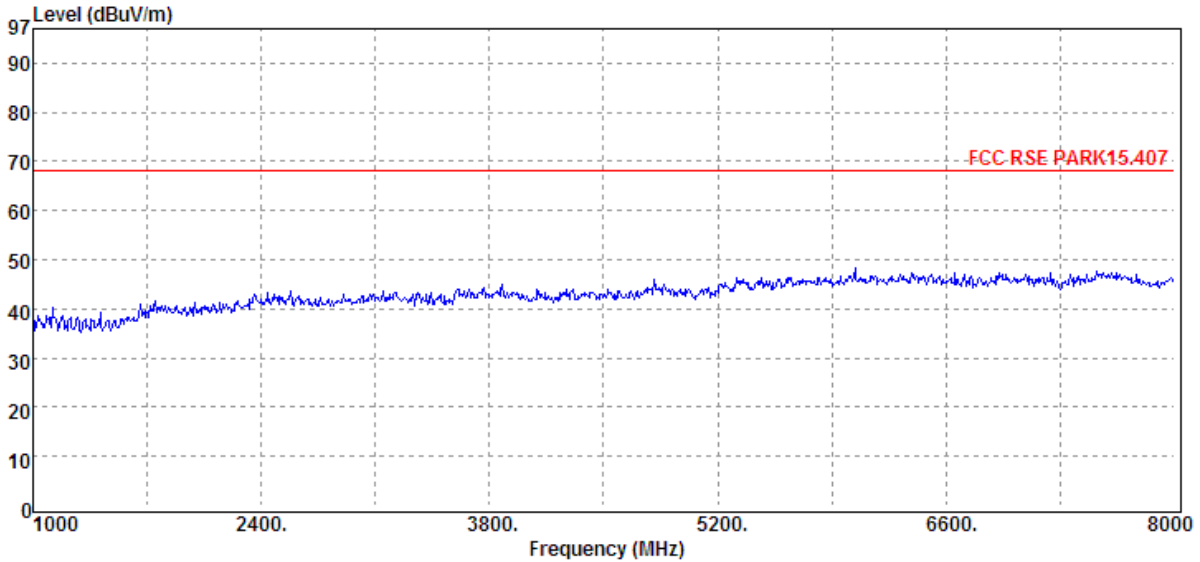
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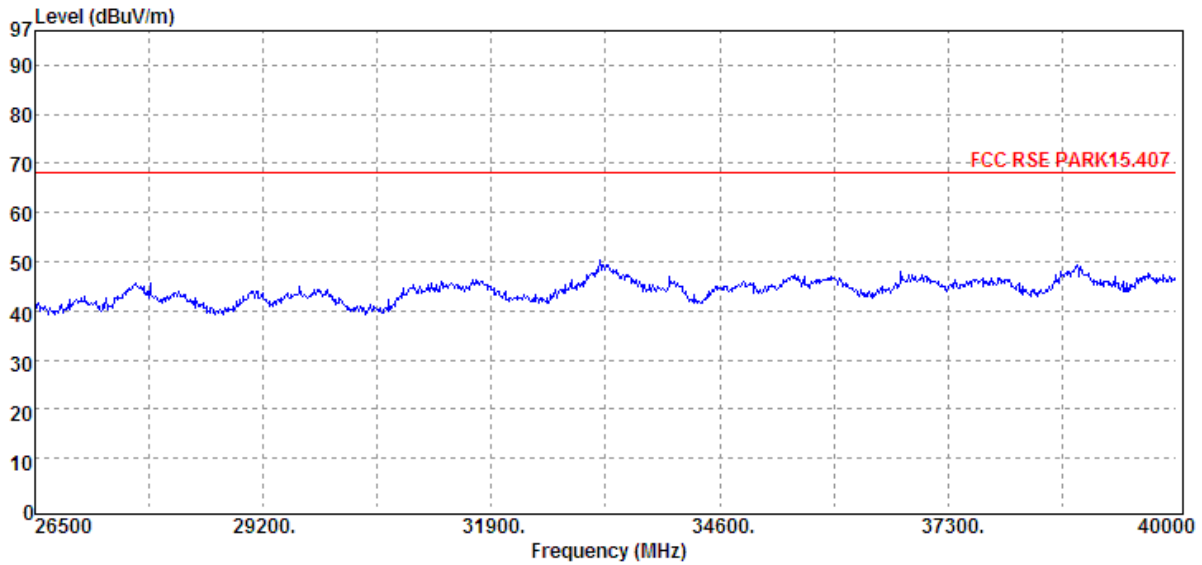
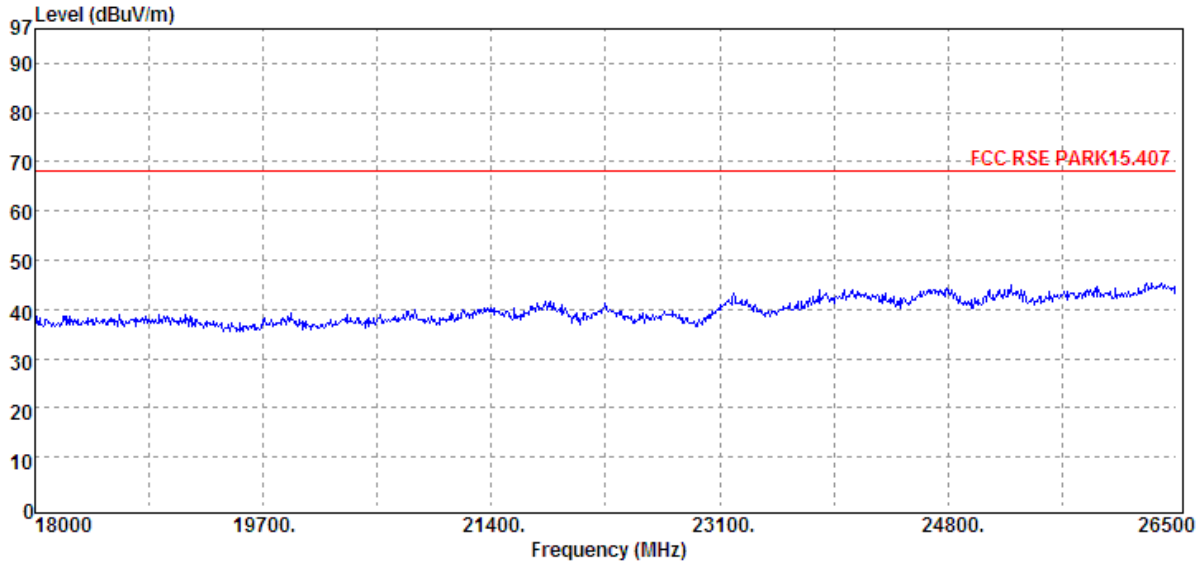
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5500 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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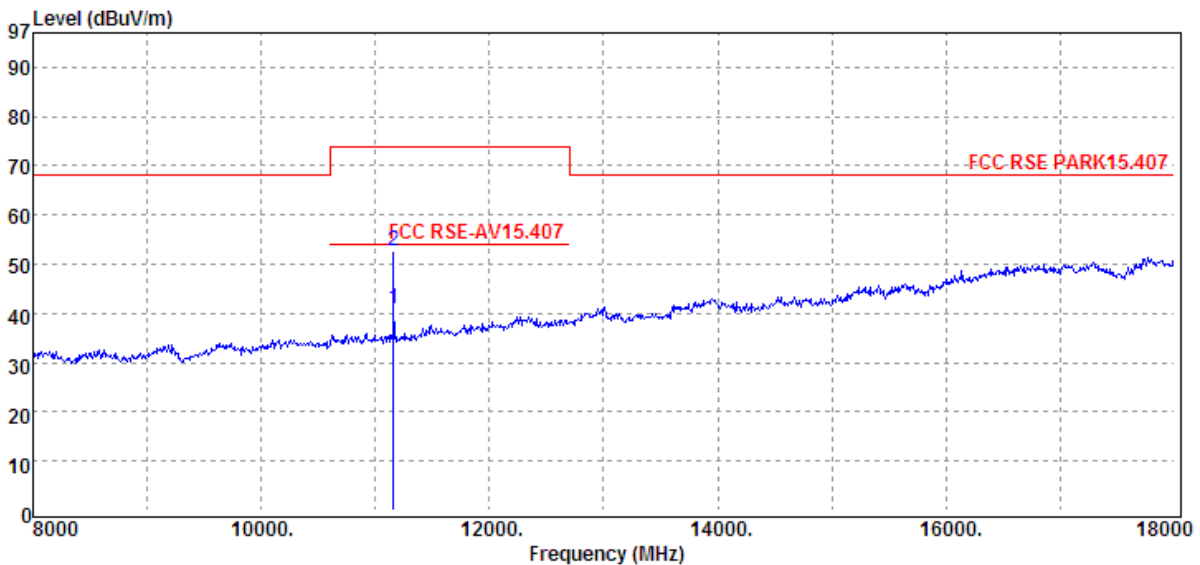
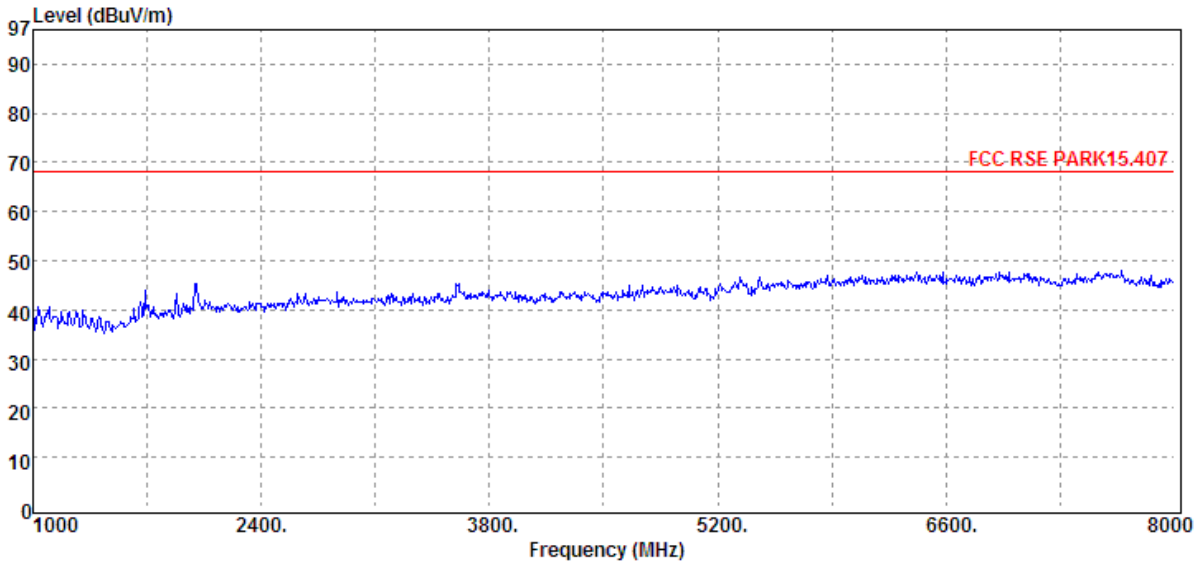


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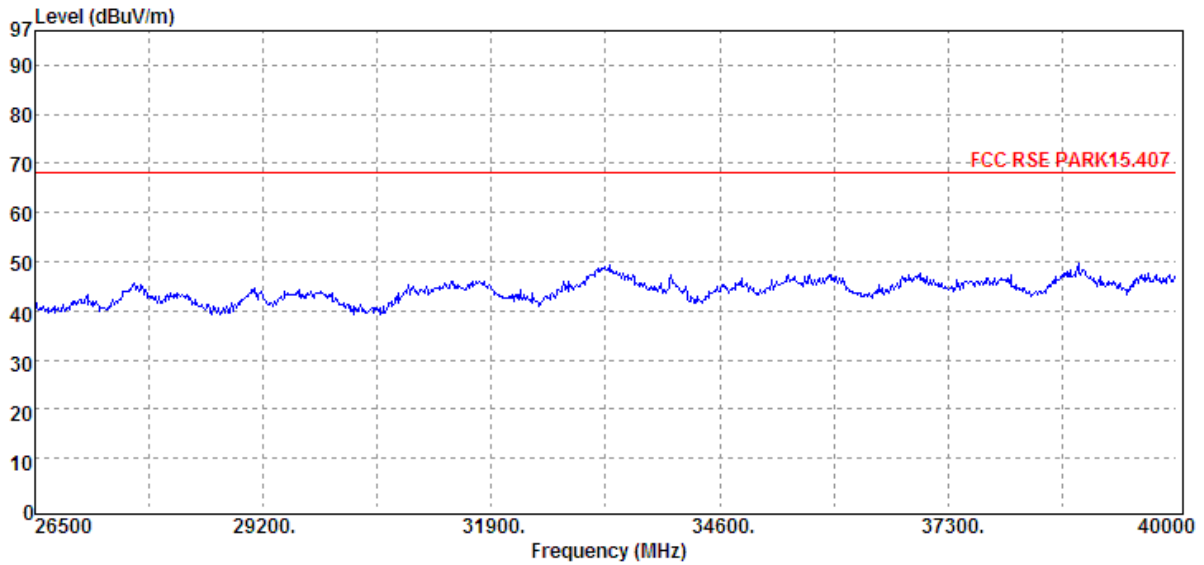
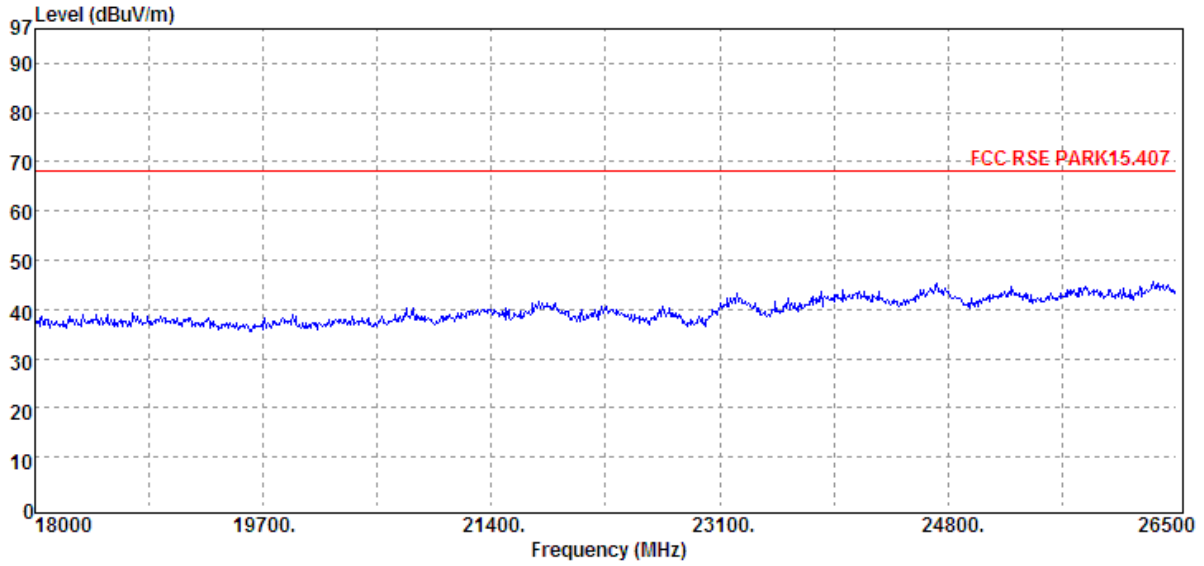
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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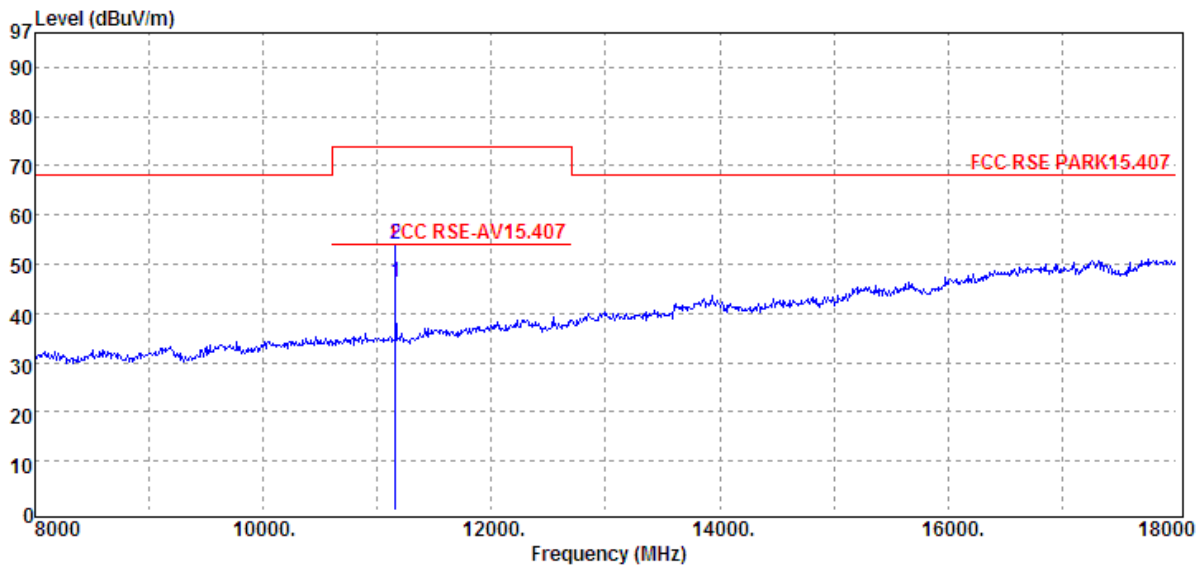
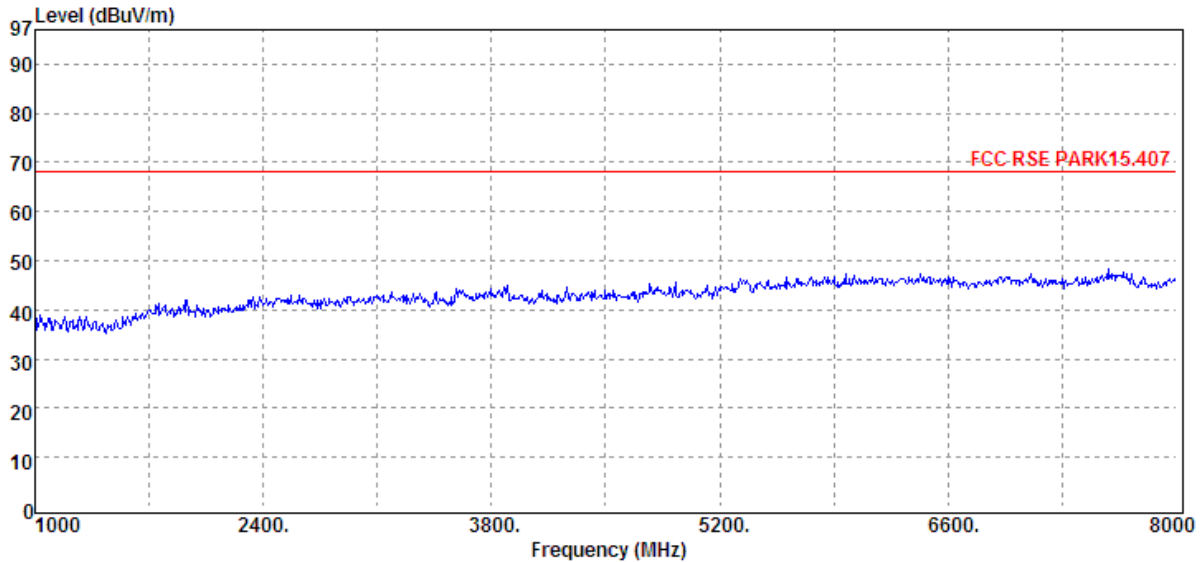


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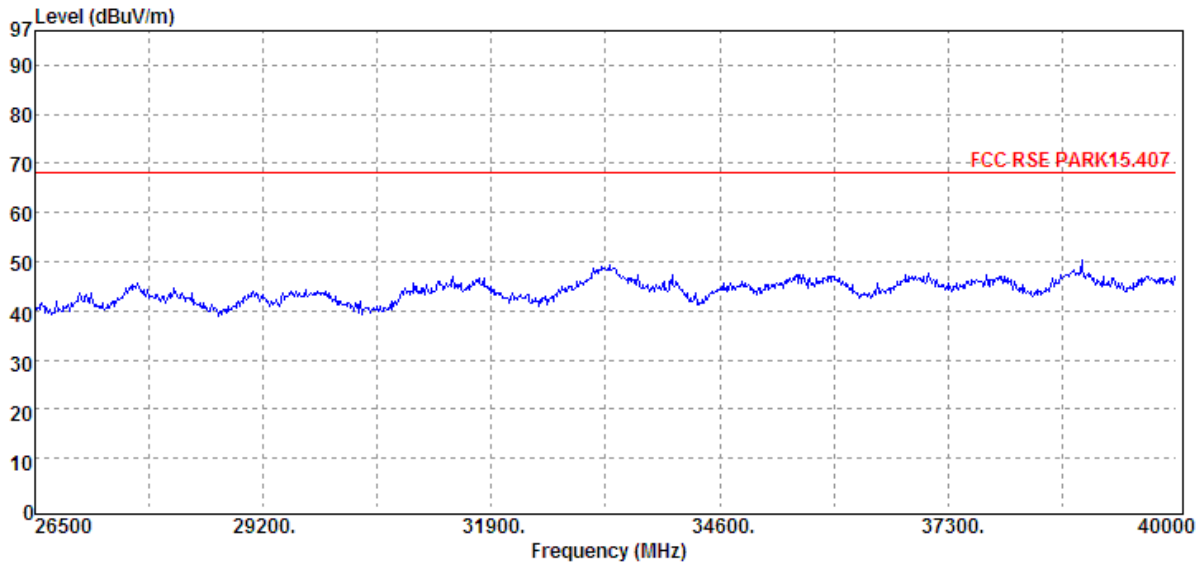
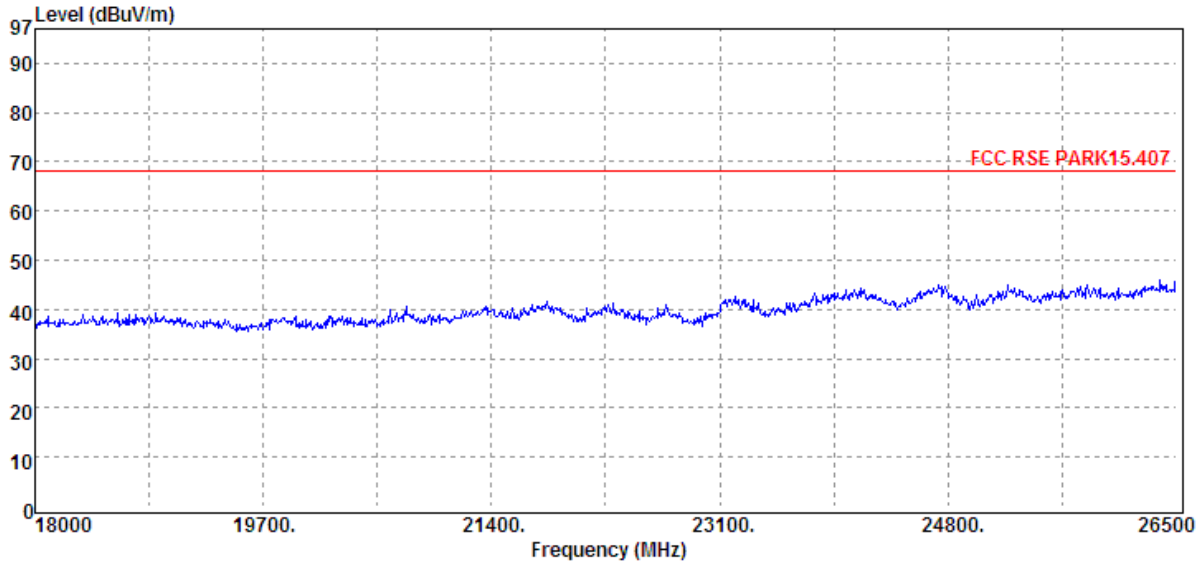
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5580 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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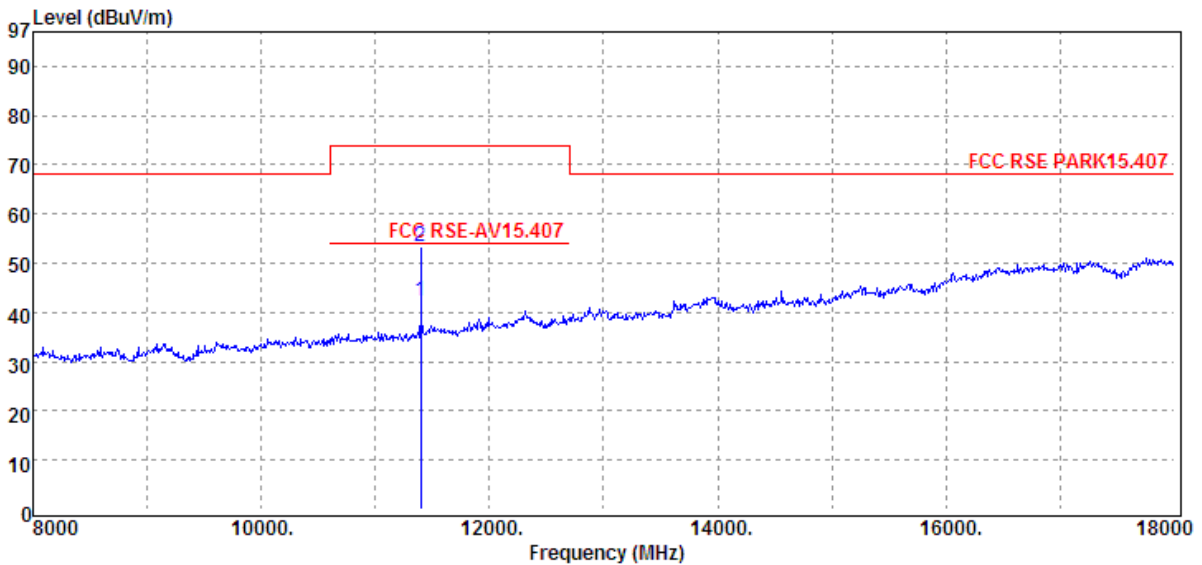
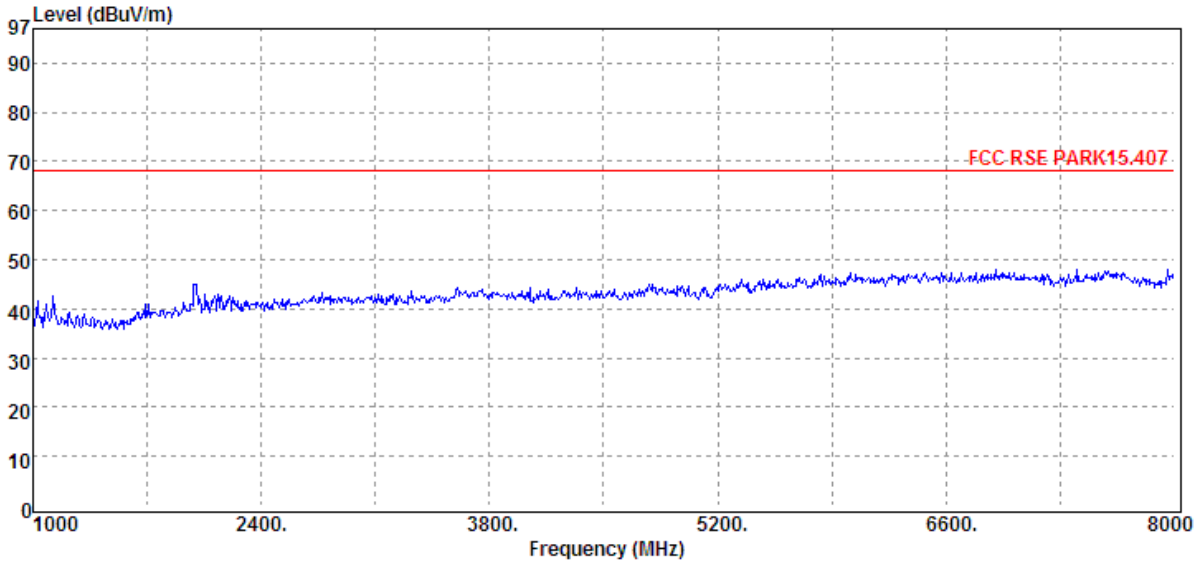
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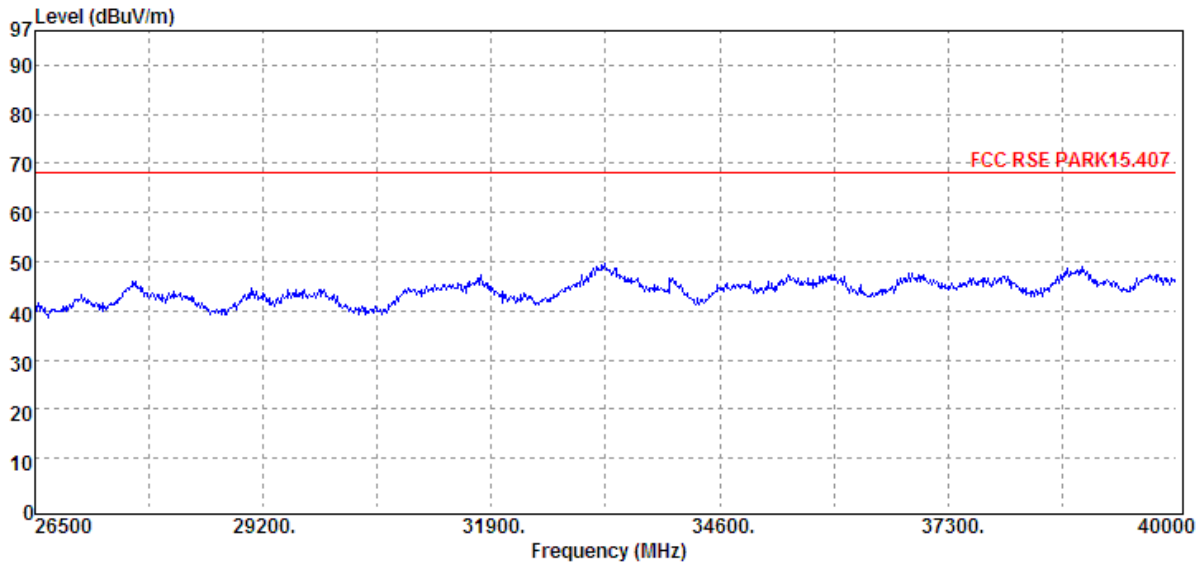
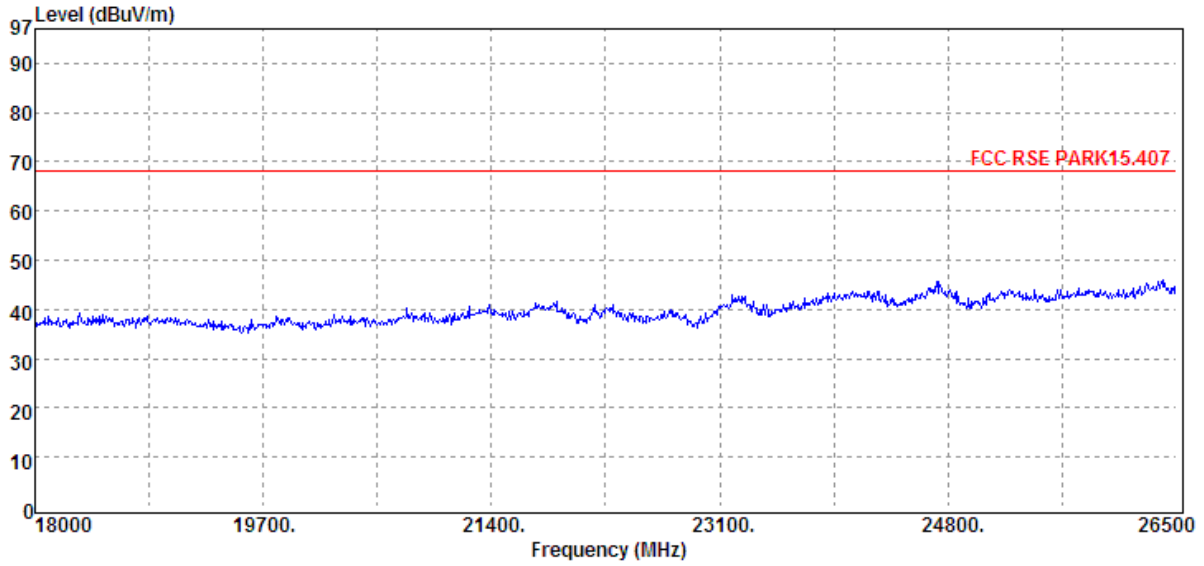
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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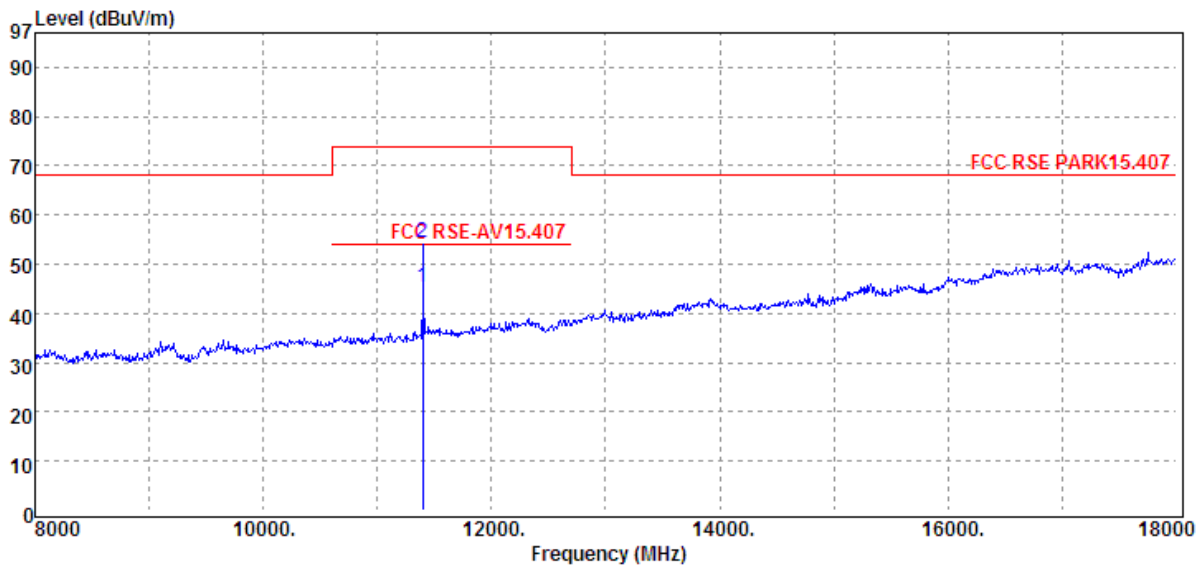
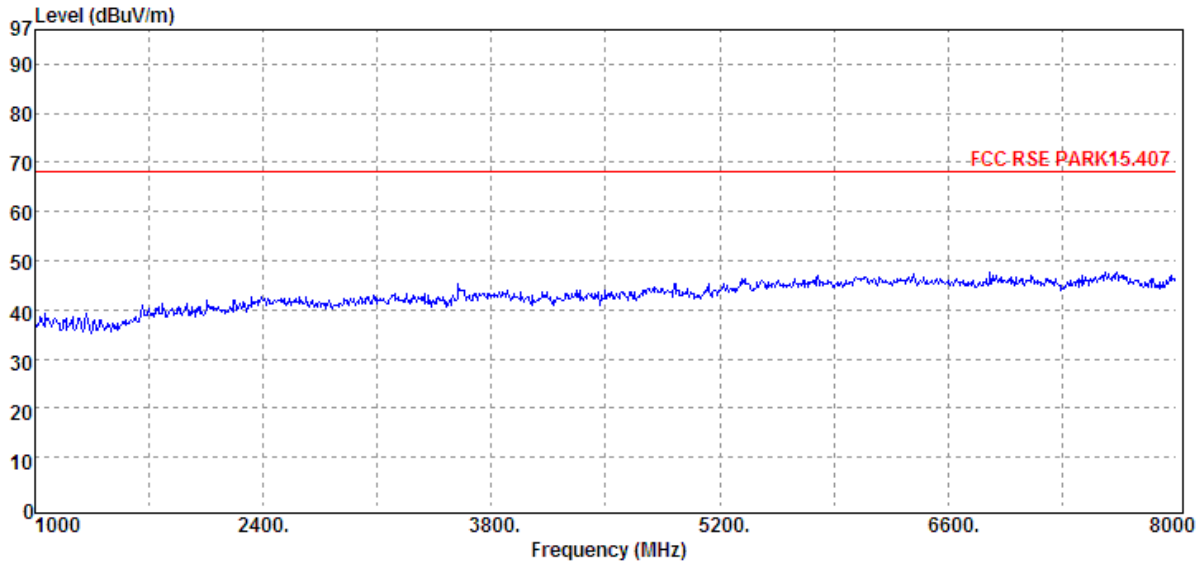
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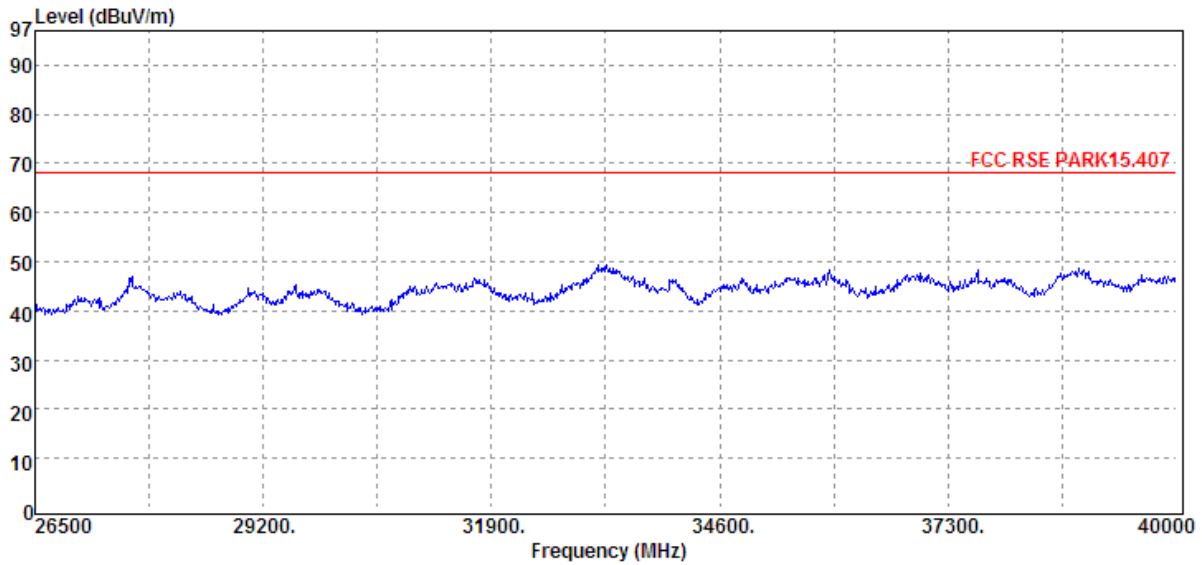
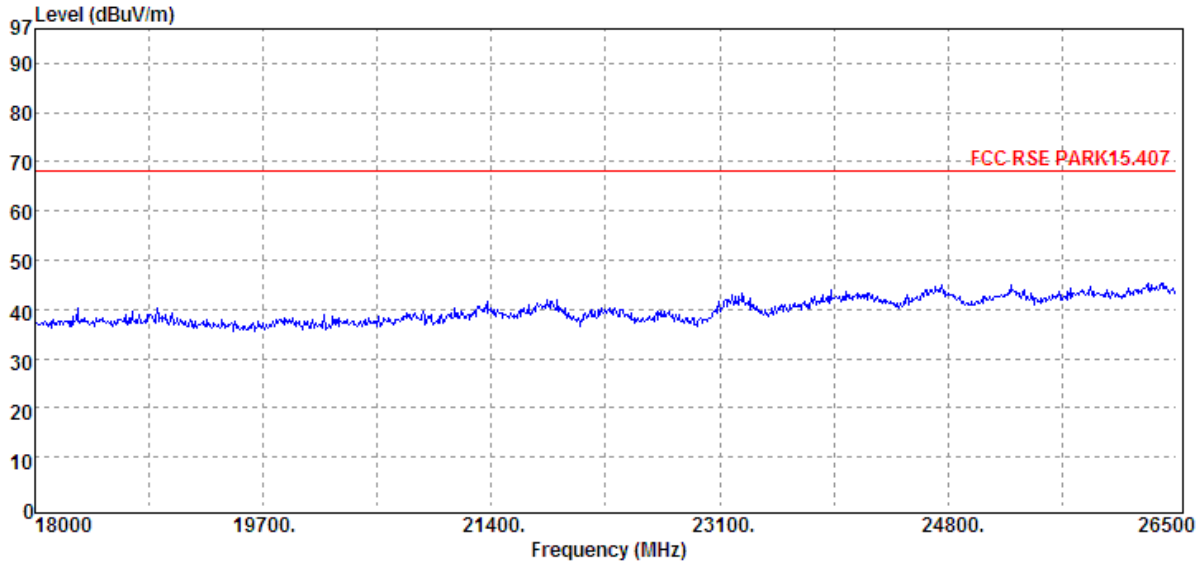
Operation Band	:802.11n20M	Test Date	:2013-05-03
Fundamental Frequency	:5700 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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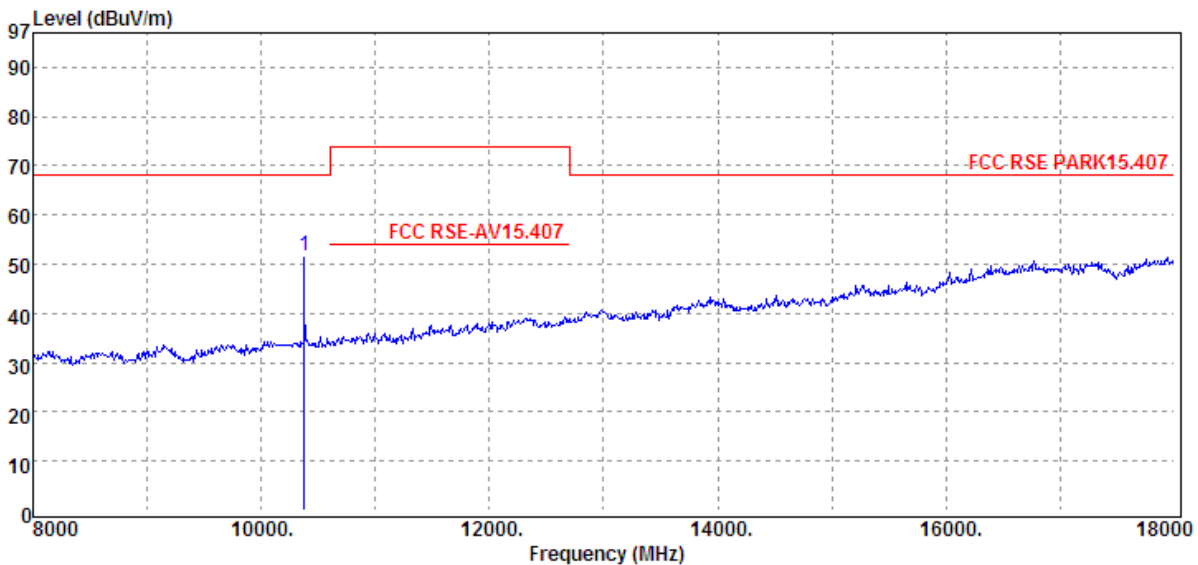
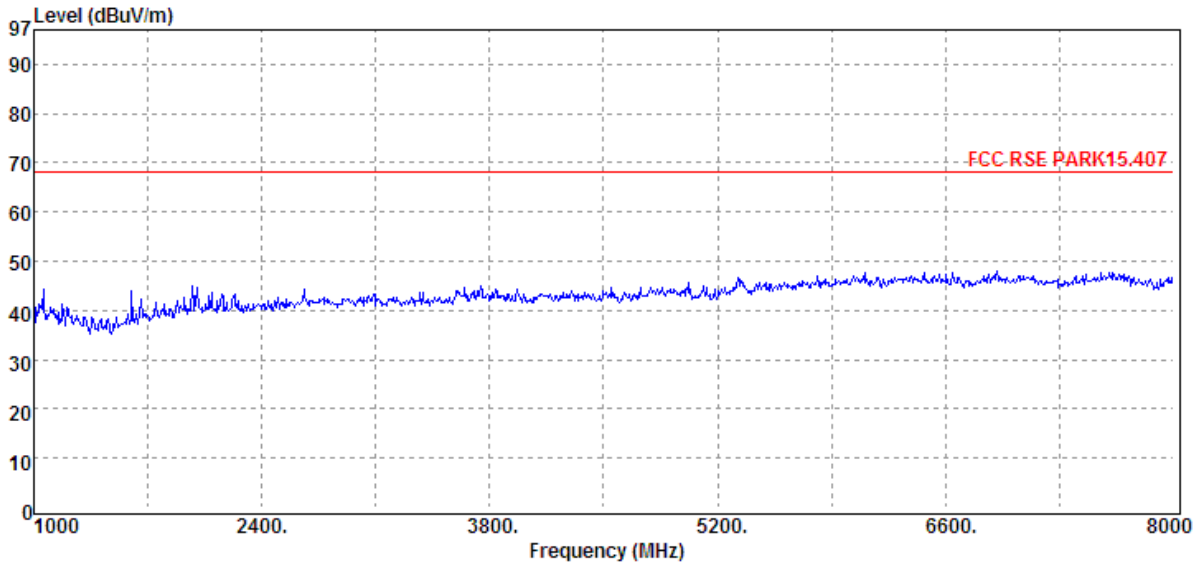


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802.11n HT40MHz 5150-5250MHz

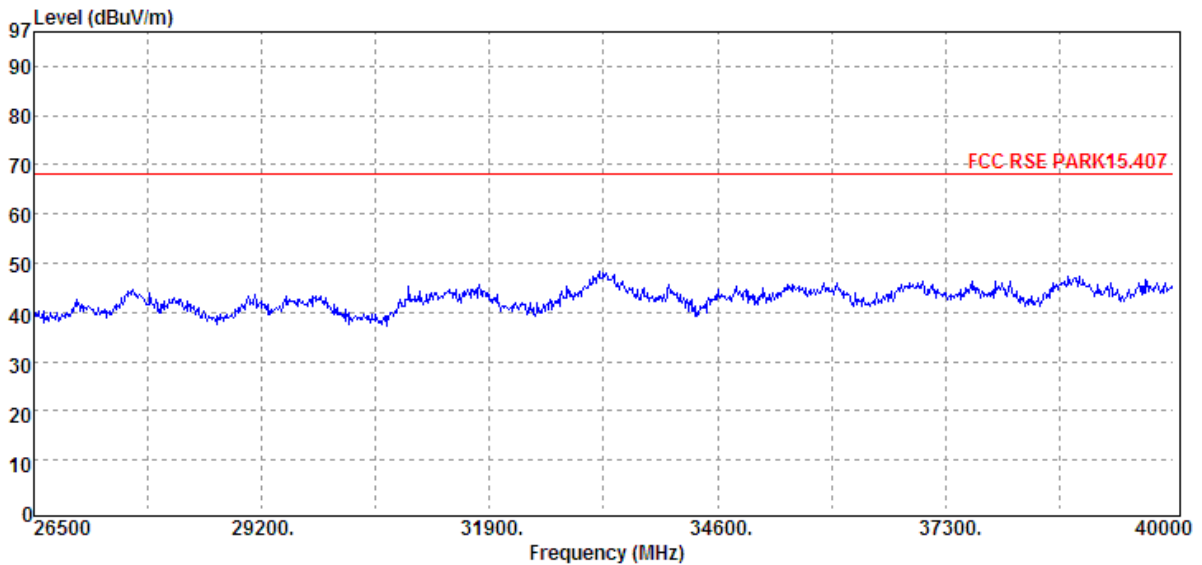
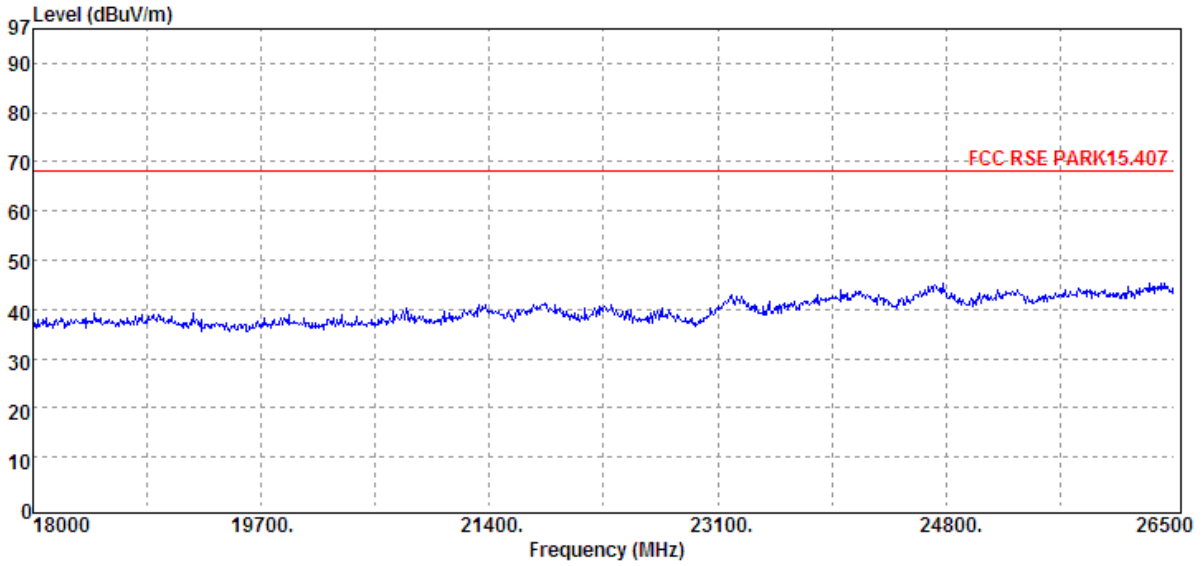
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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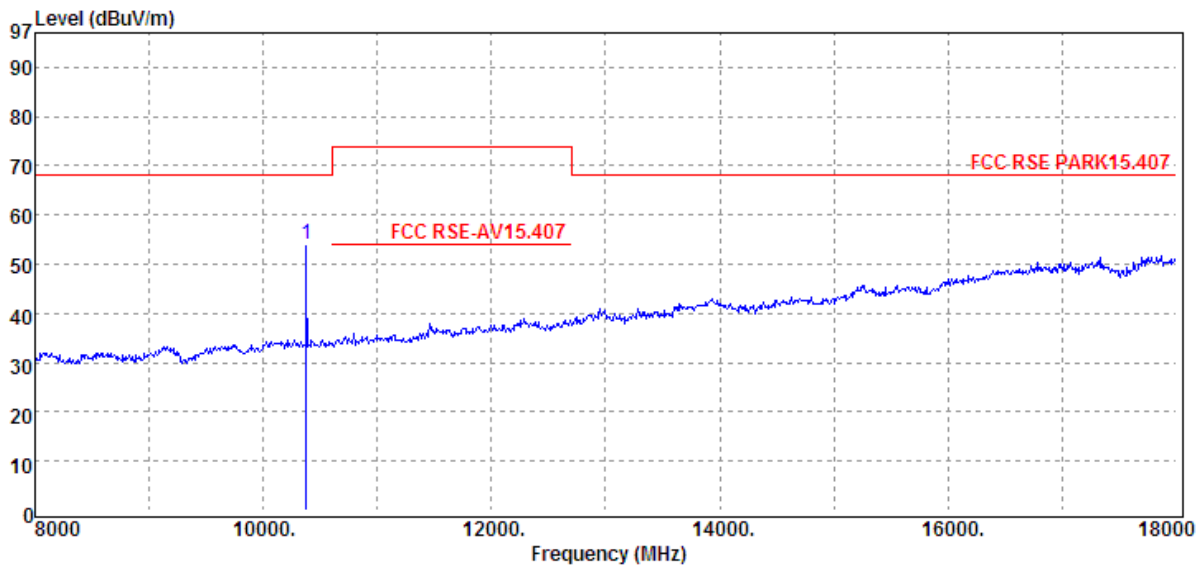
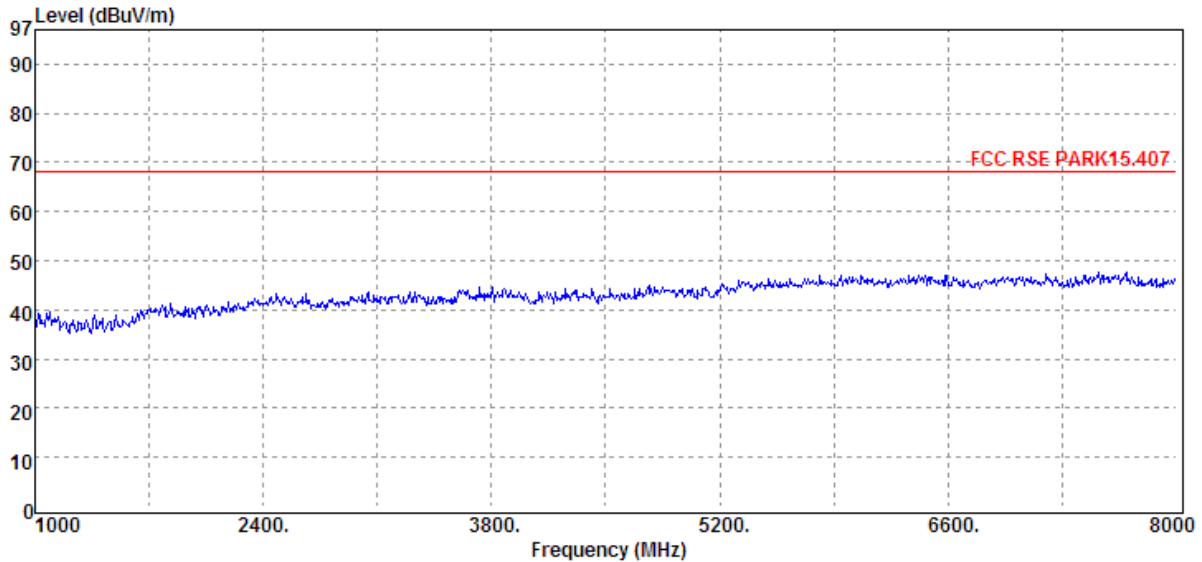


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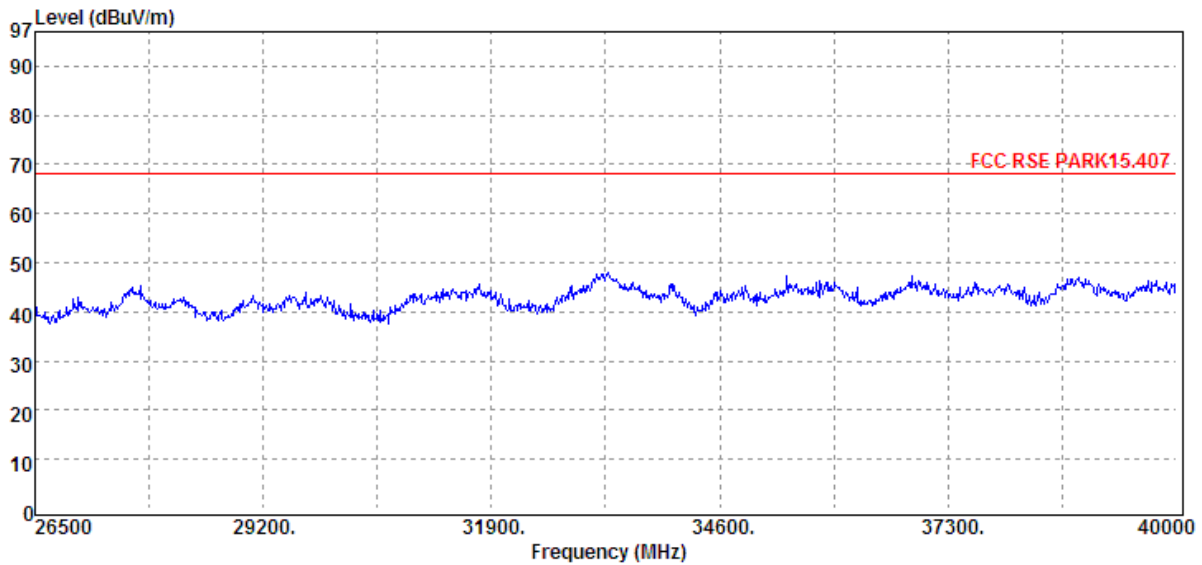
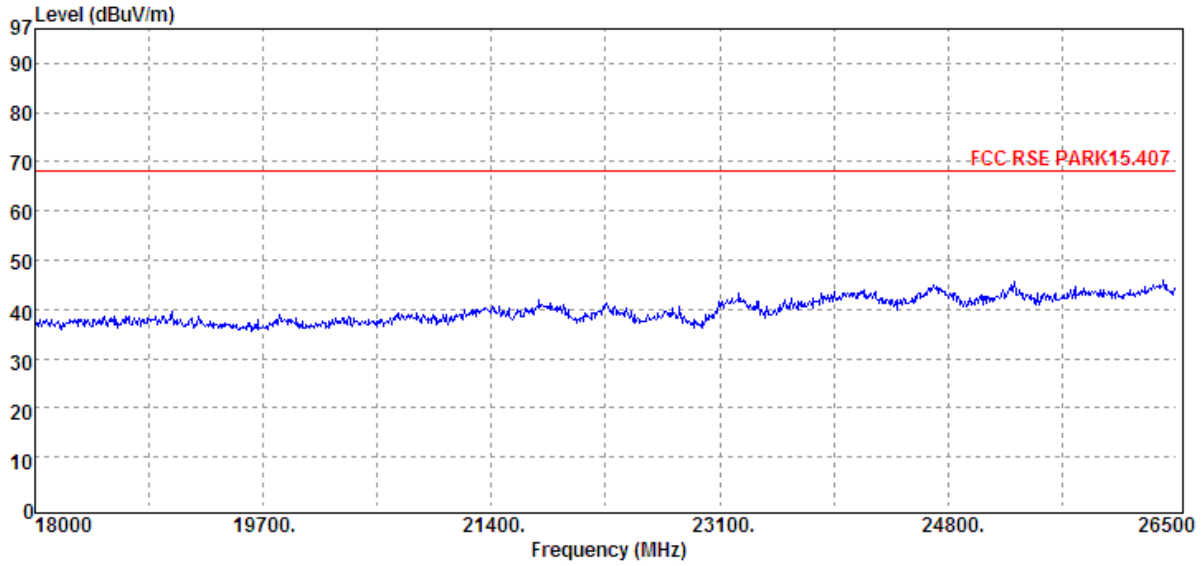
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5190 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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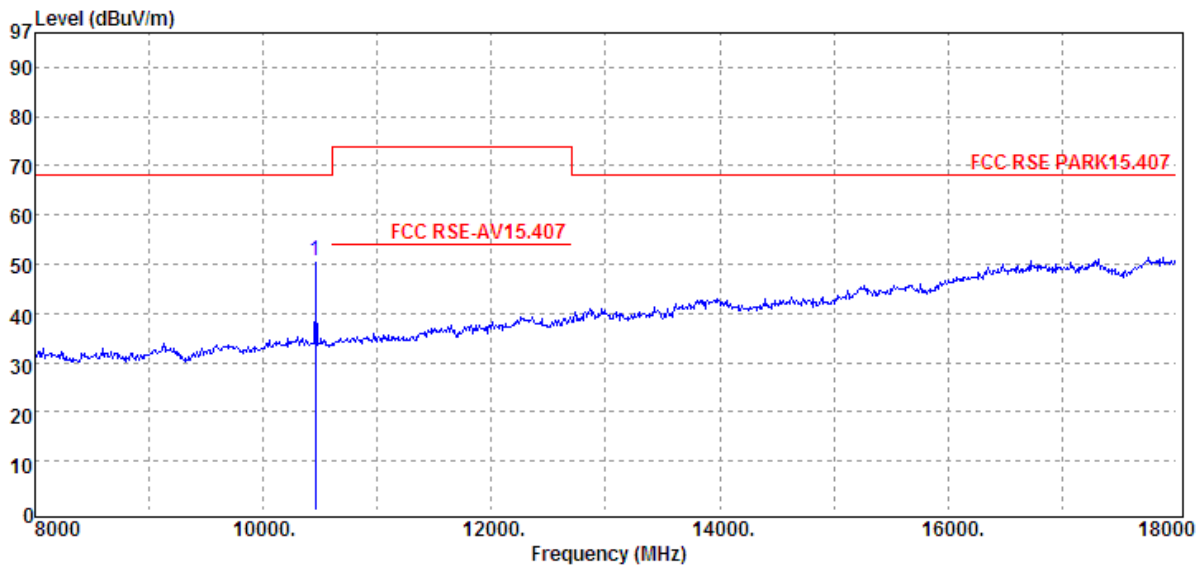
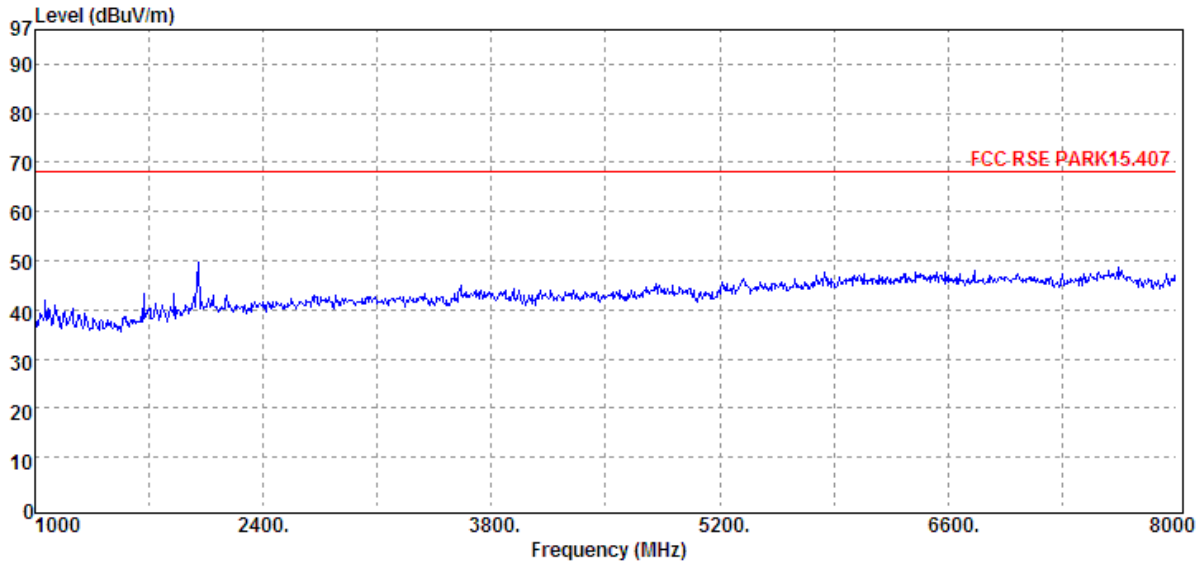


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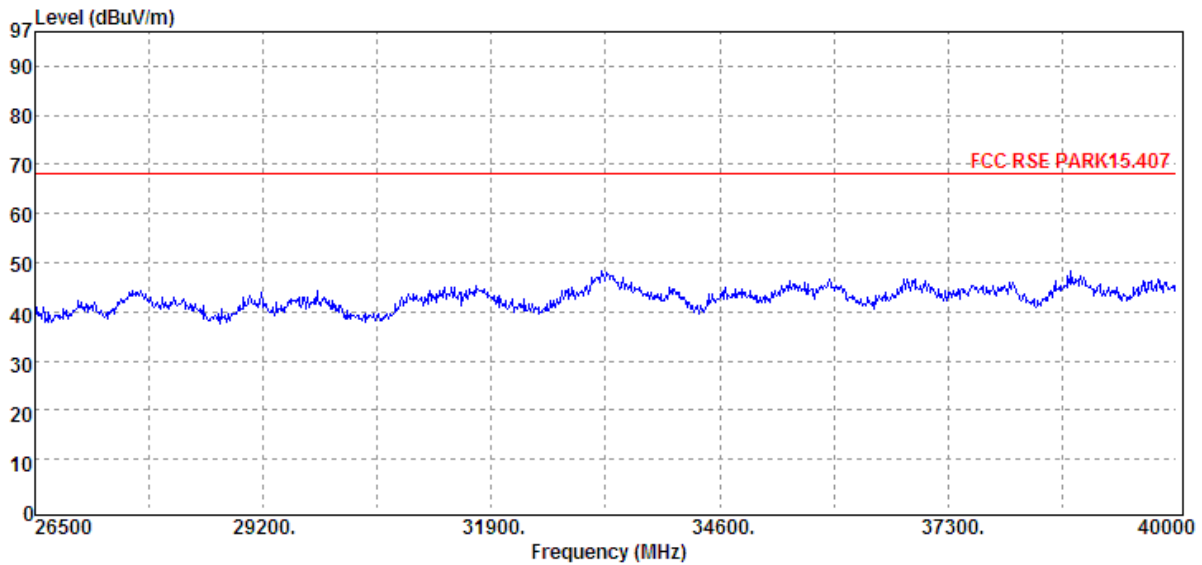
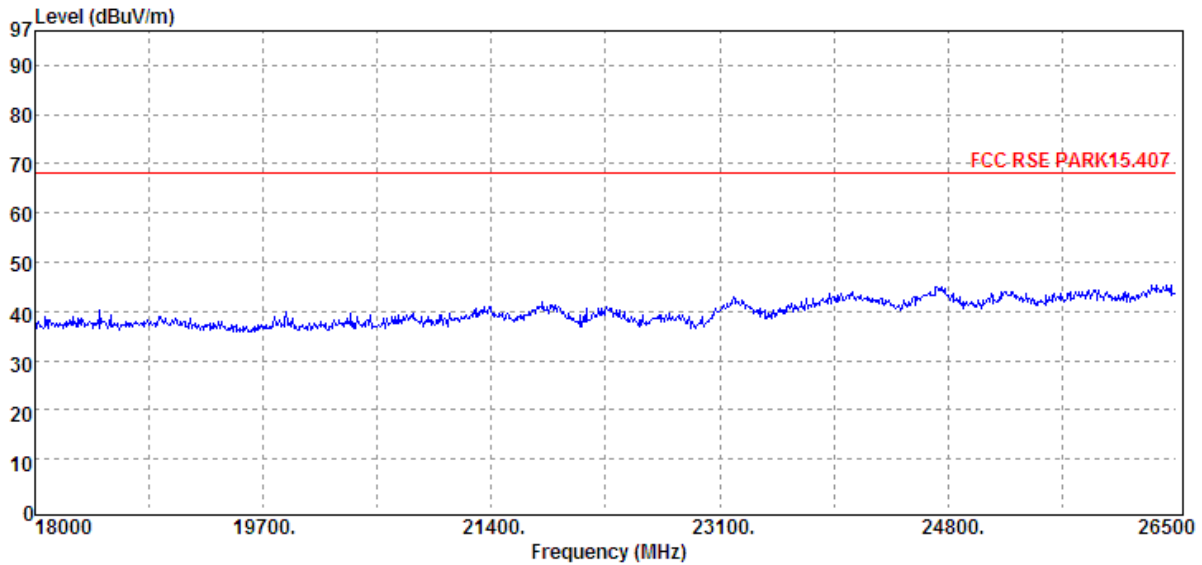
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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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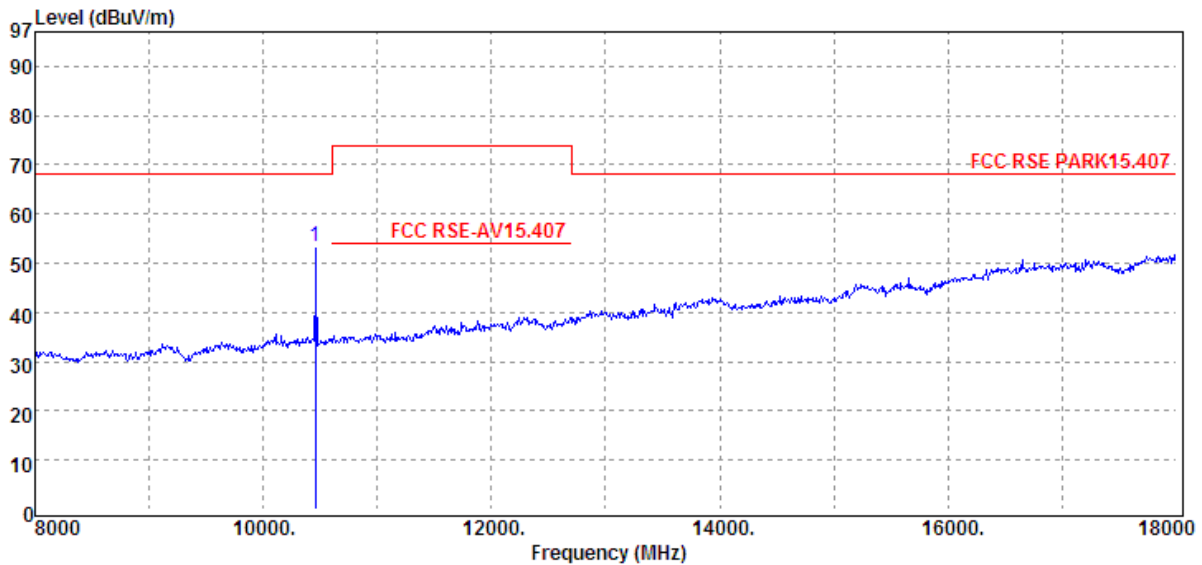
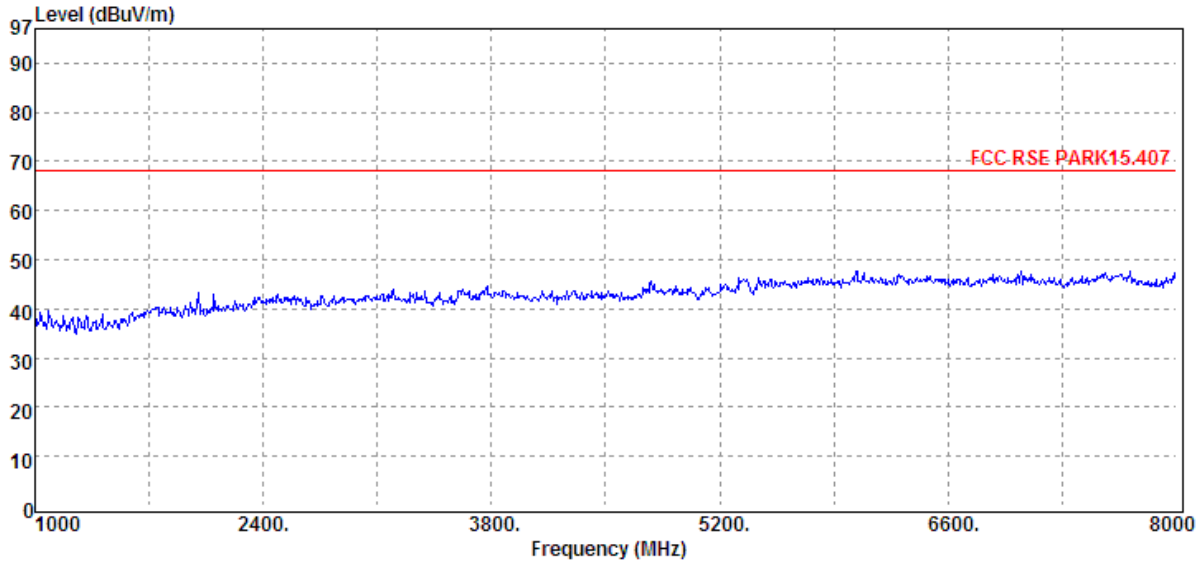


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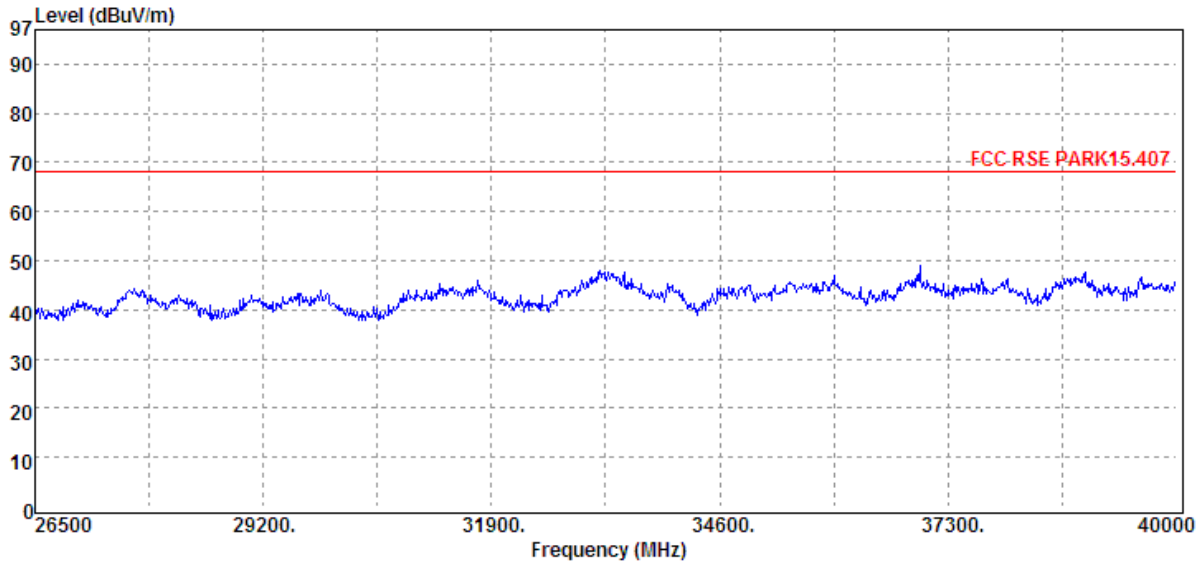
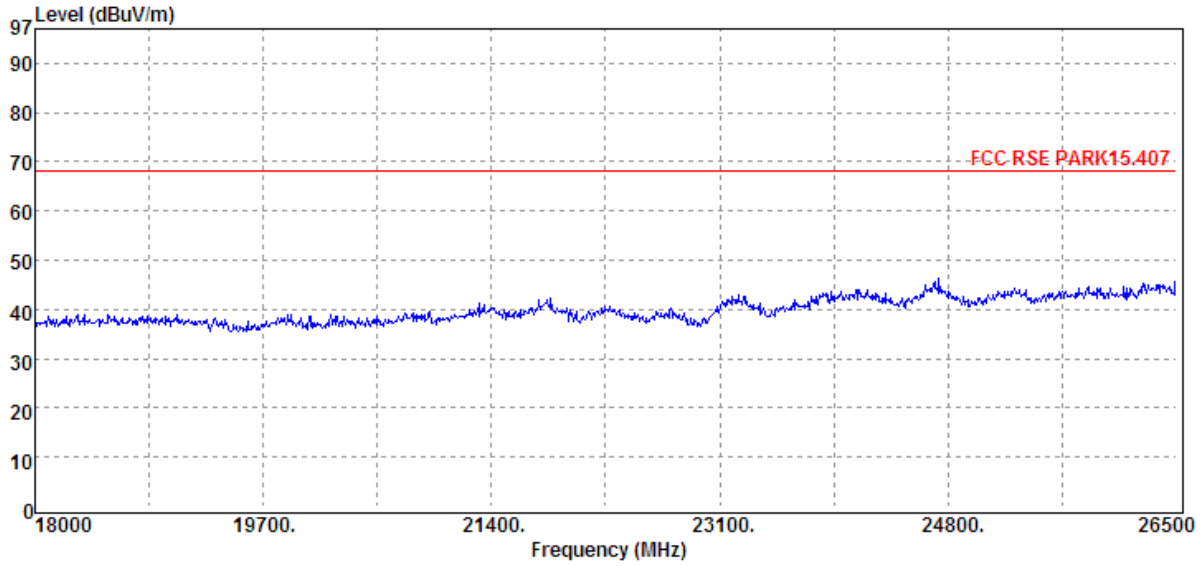
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5230 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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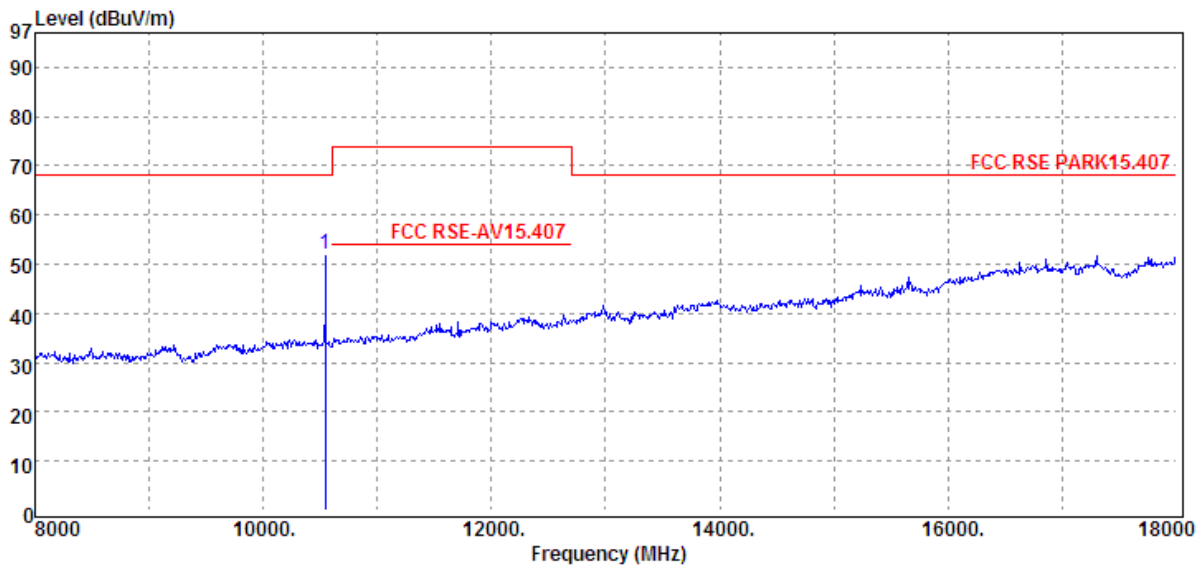
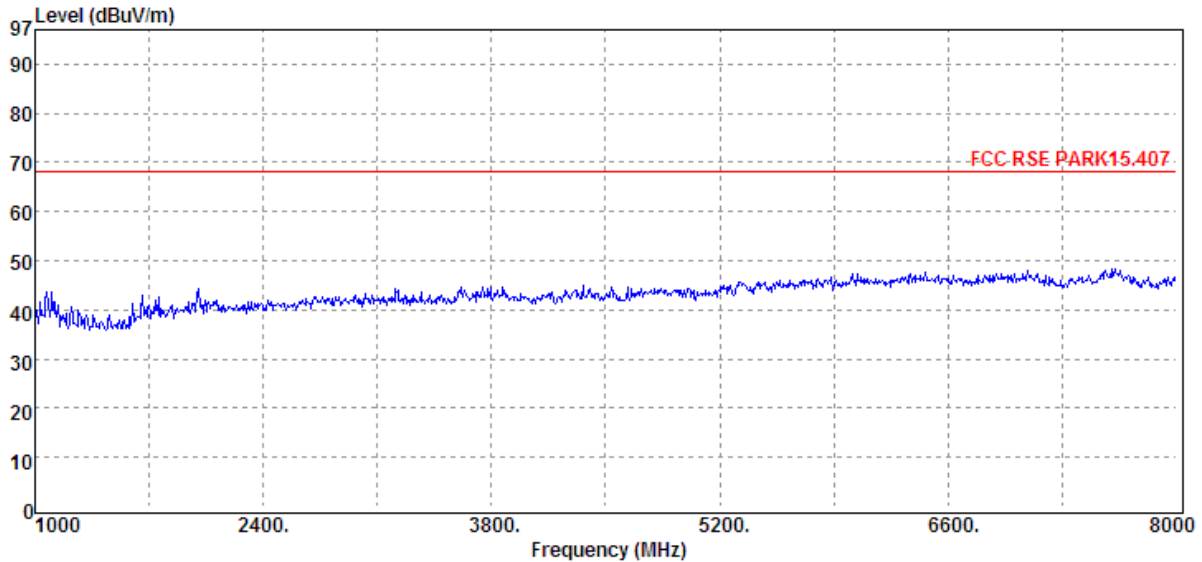
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802.11n HT40MHz 5250-5350MHz

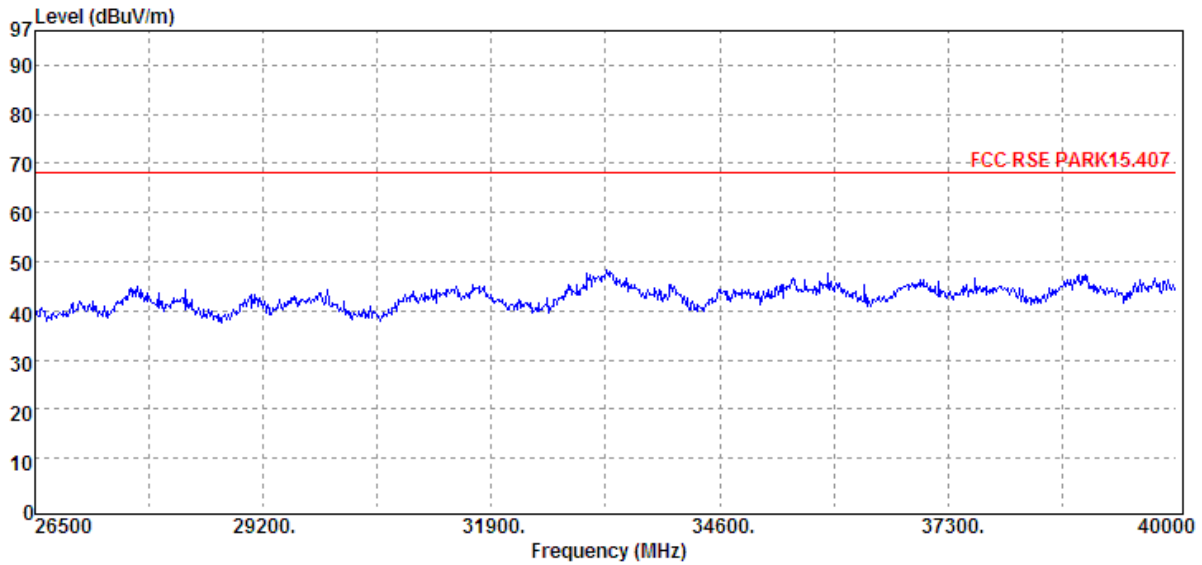
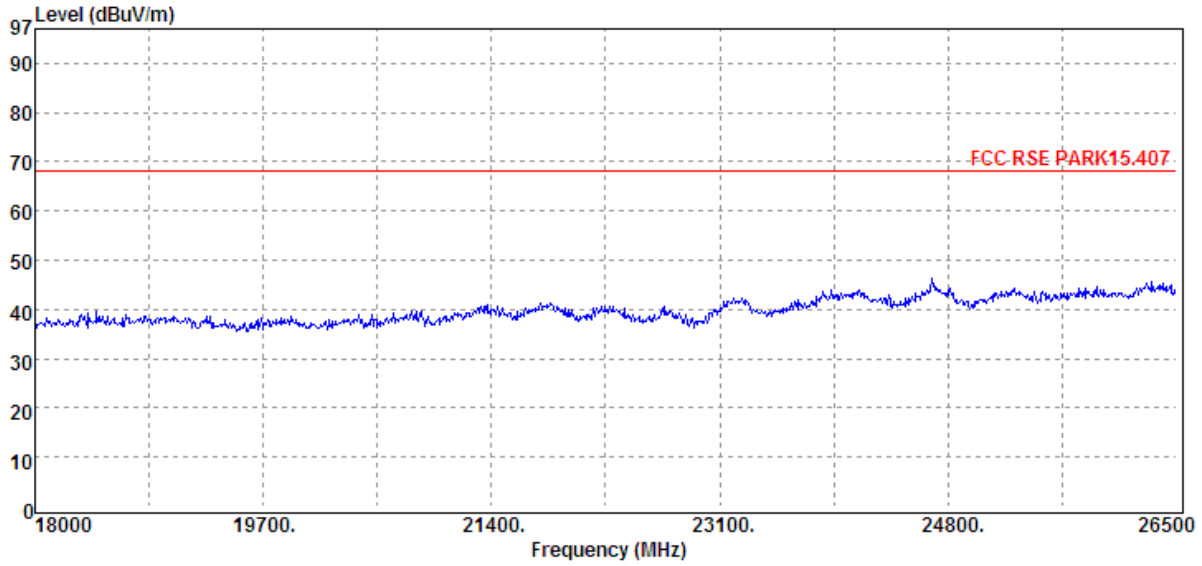
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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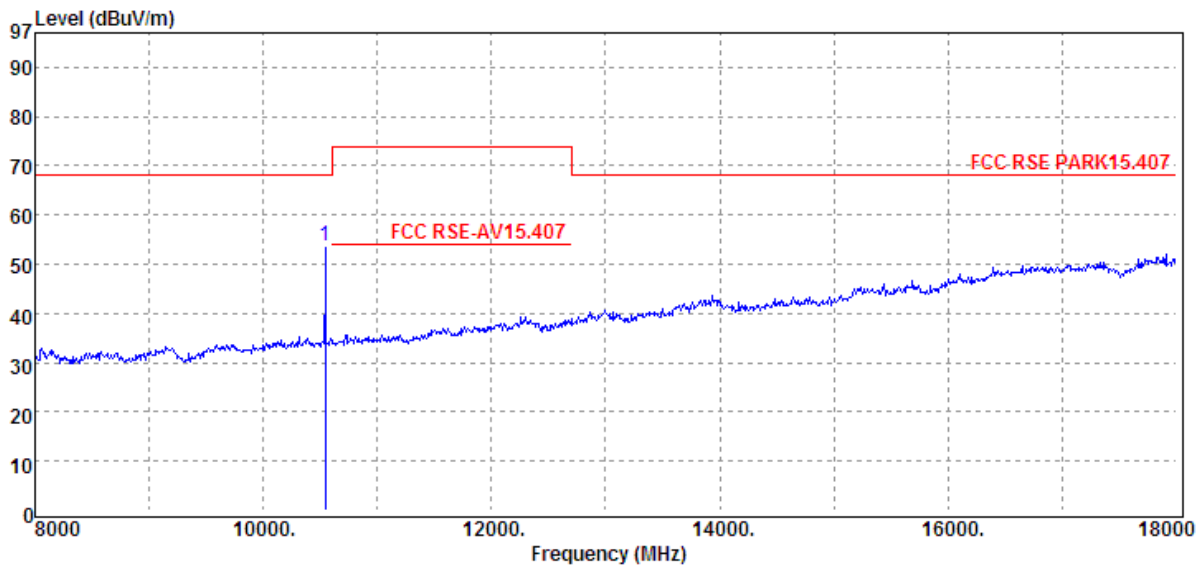
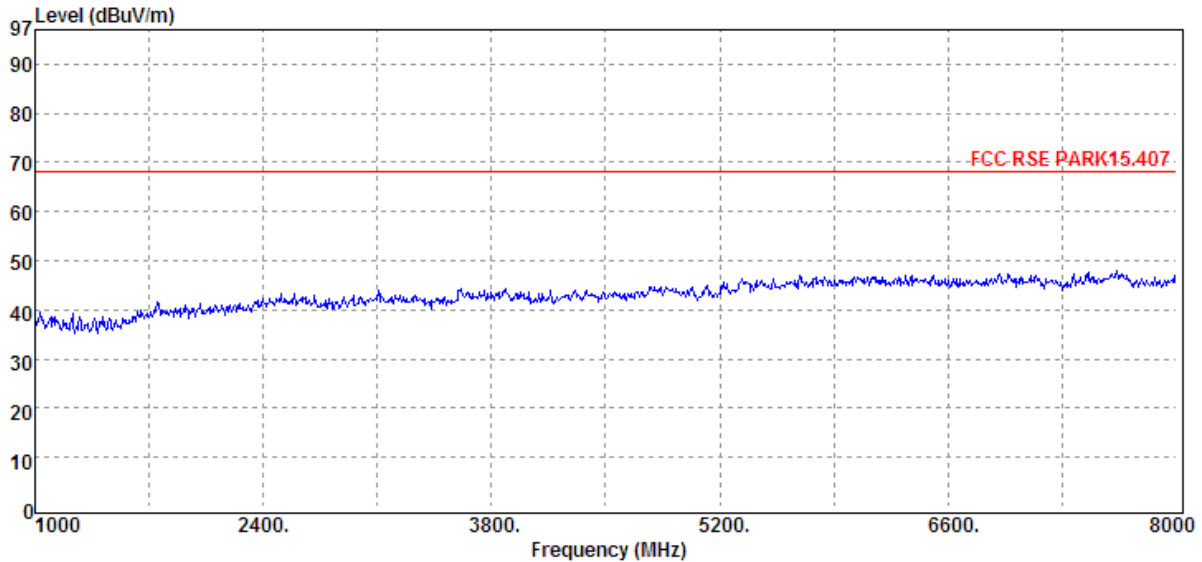


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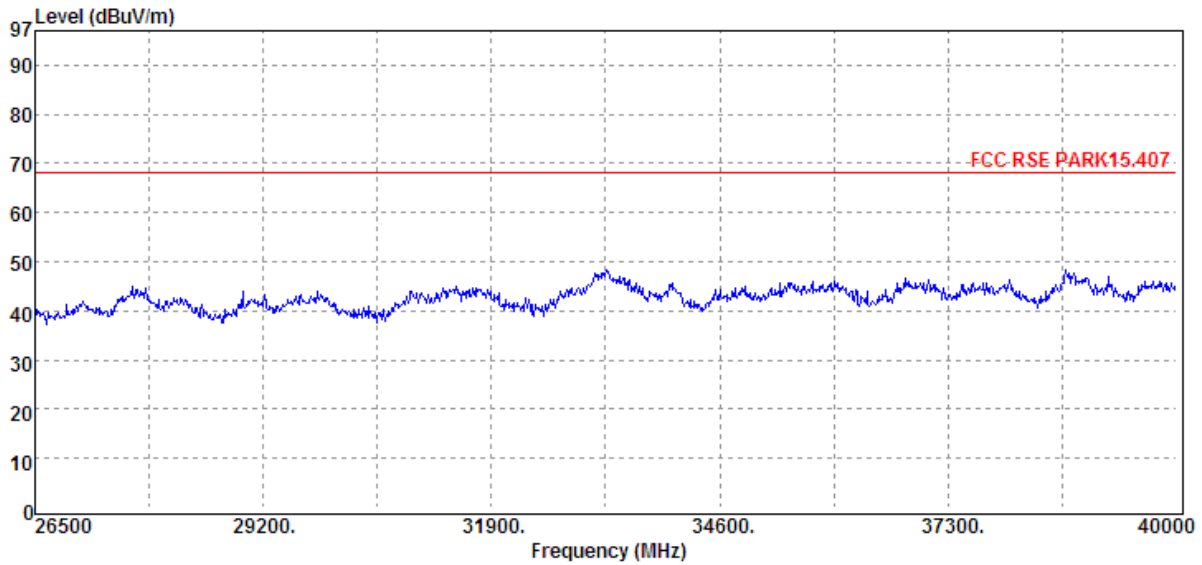
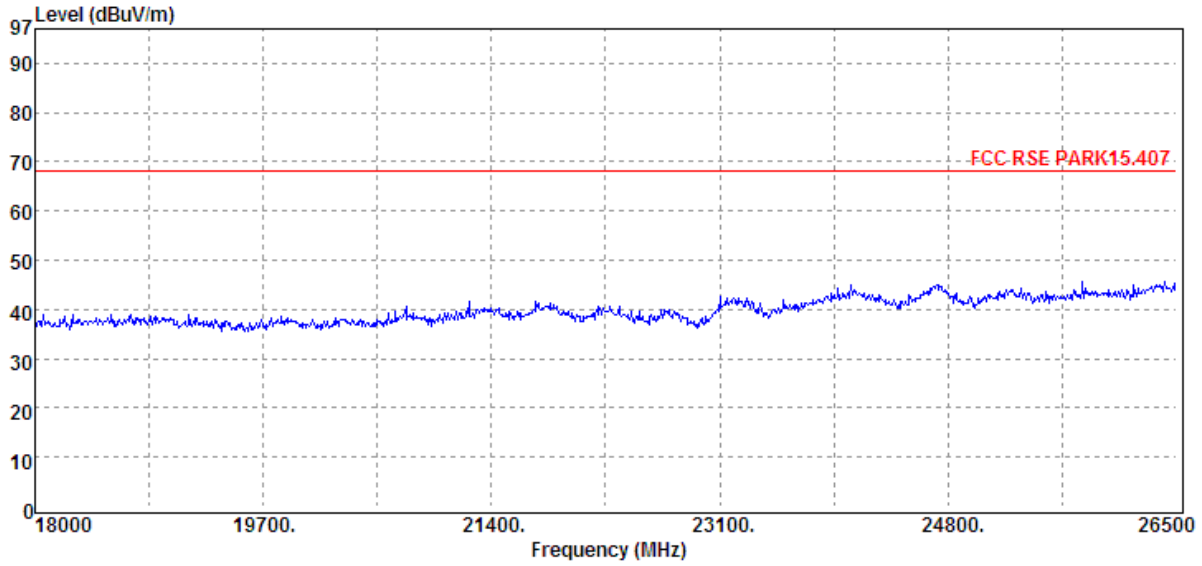
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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5270 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HLOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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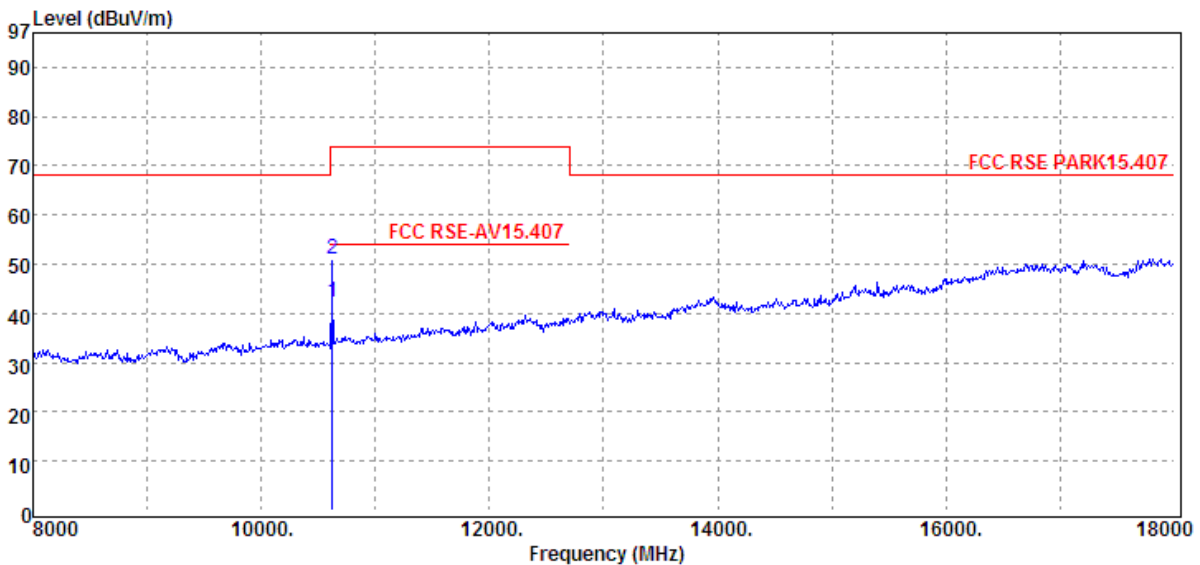
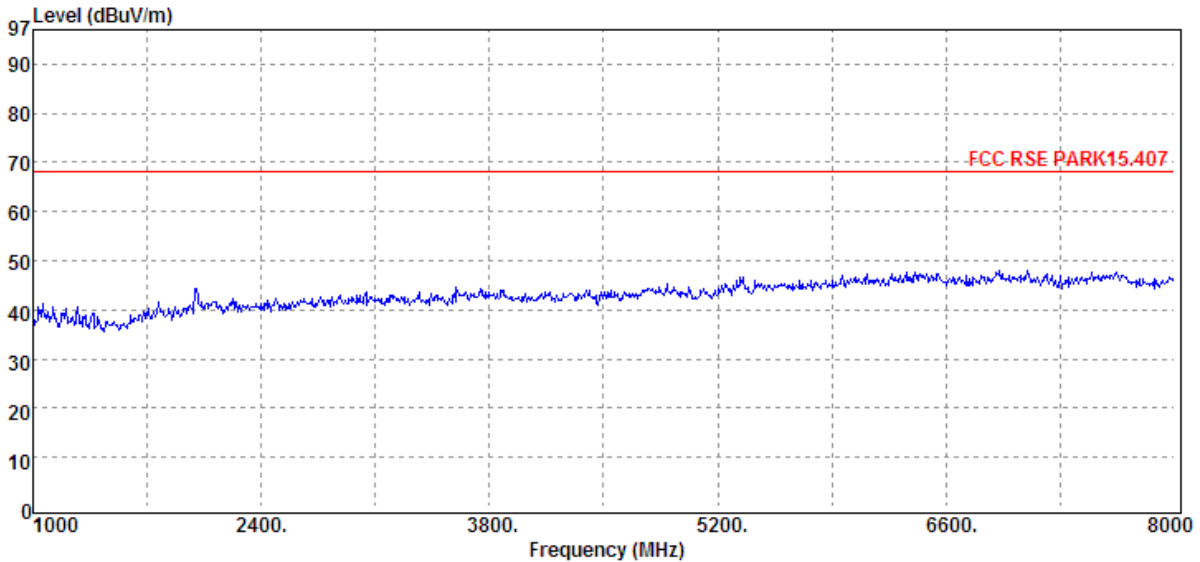


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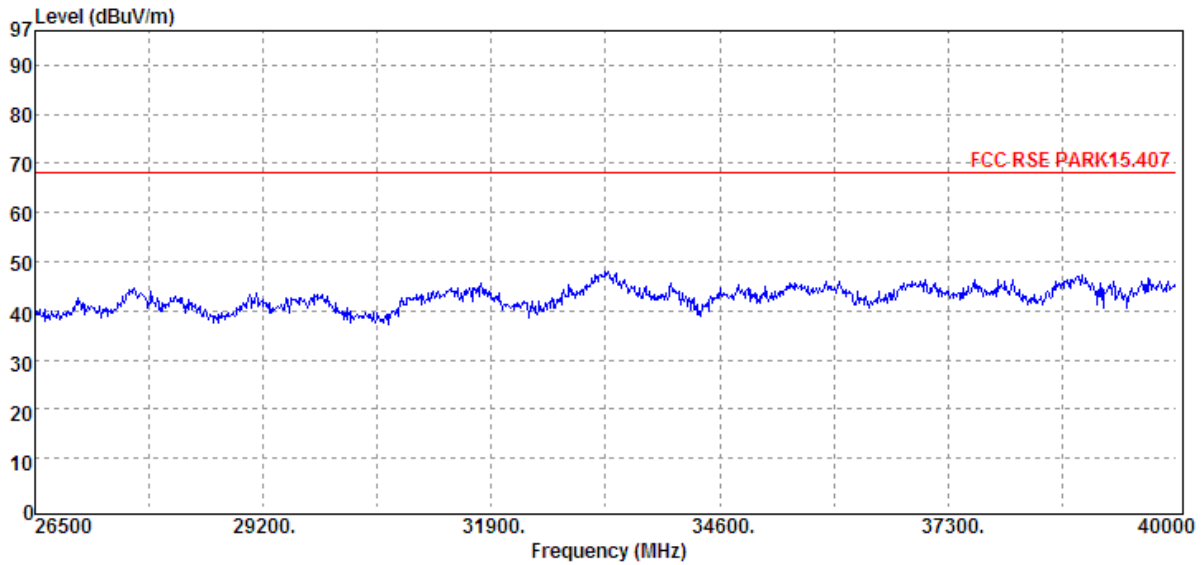
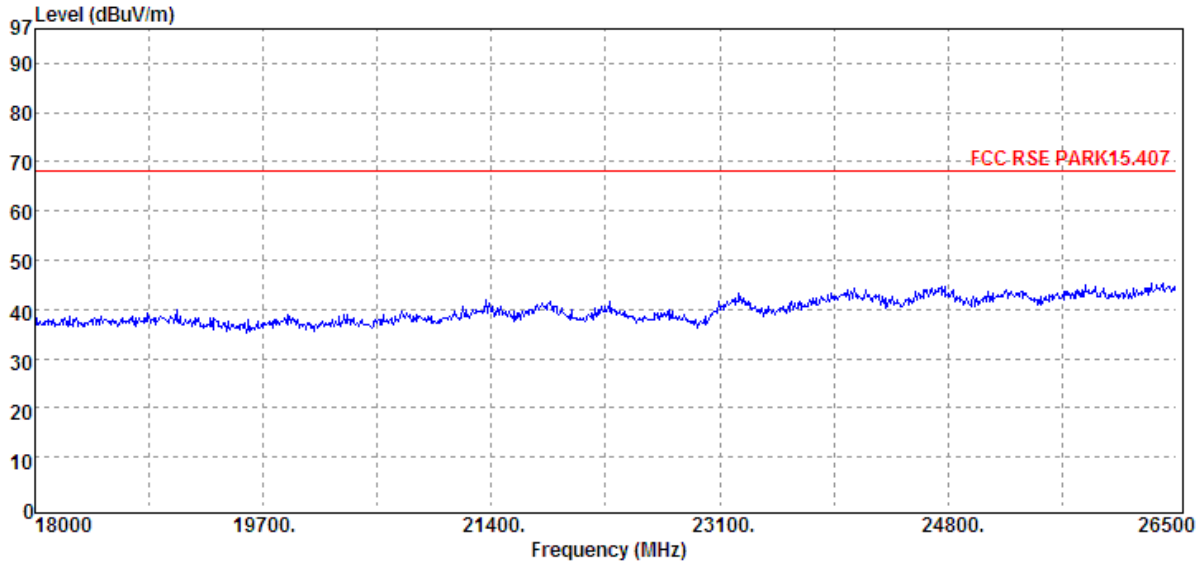
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Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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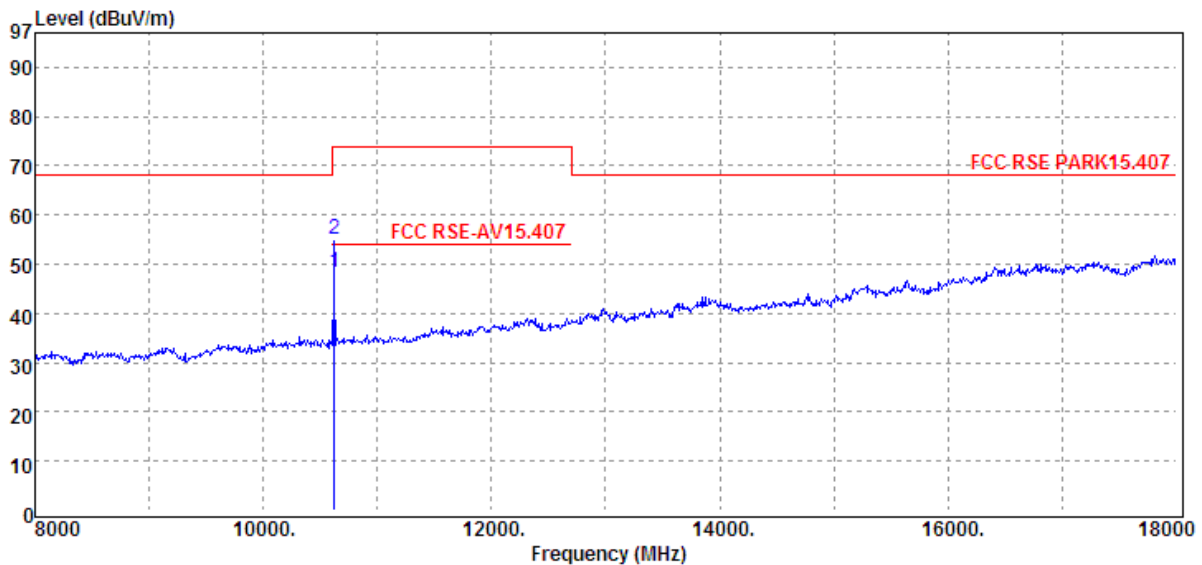
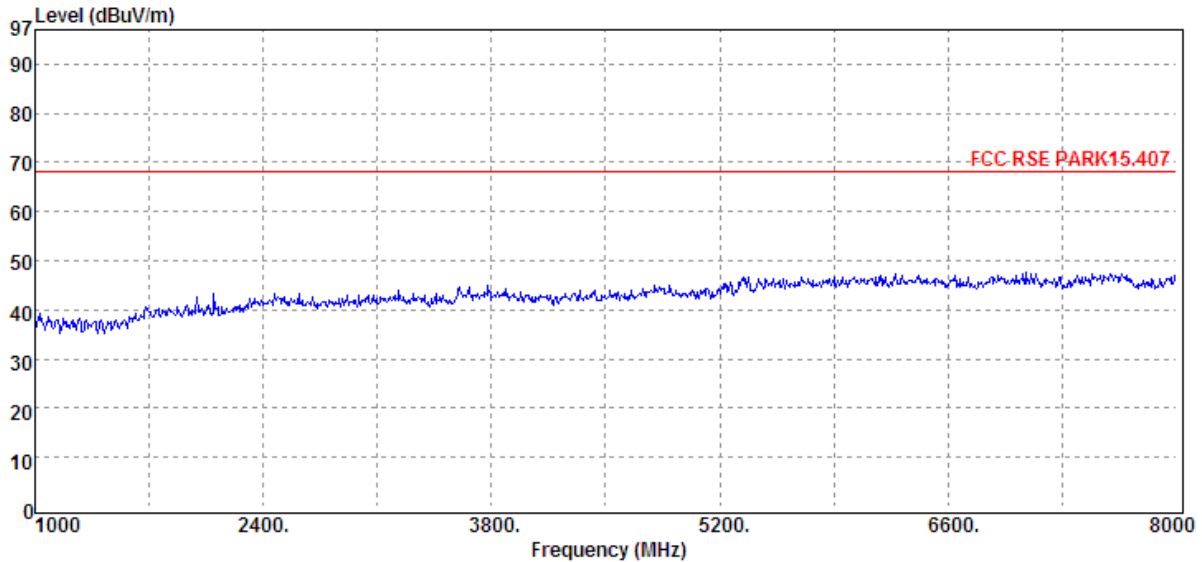


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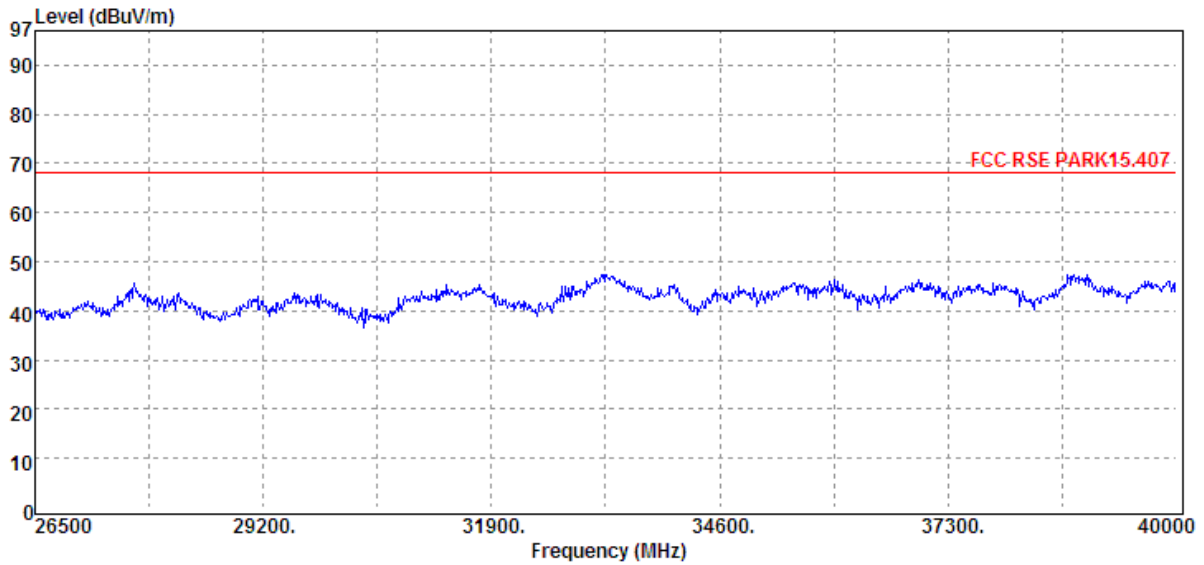
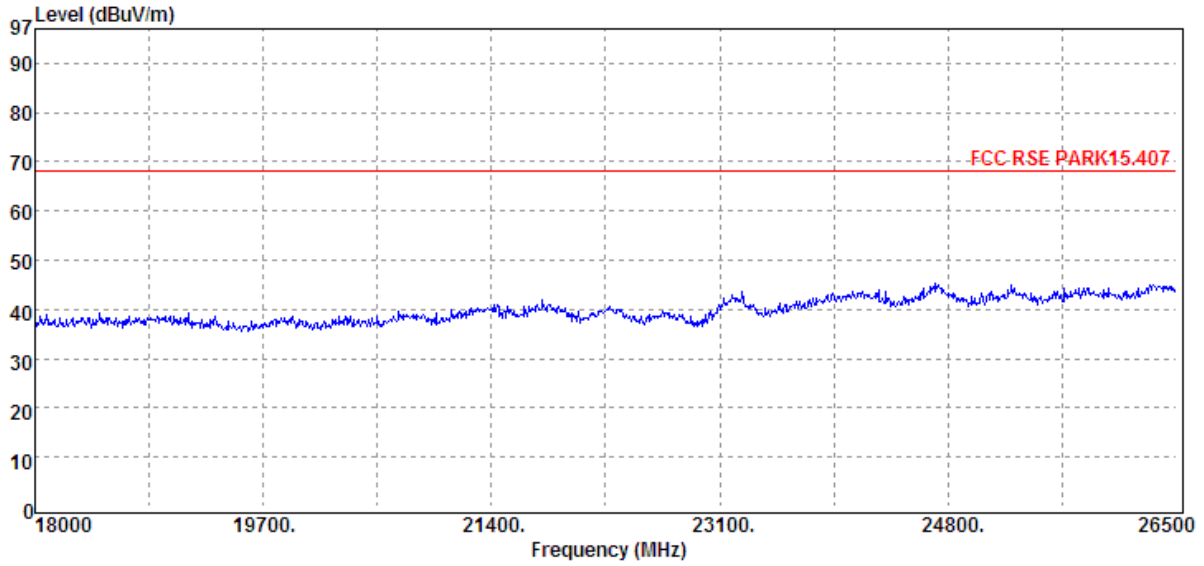
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5310 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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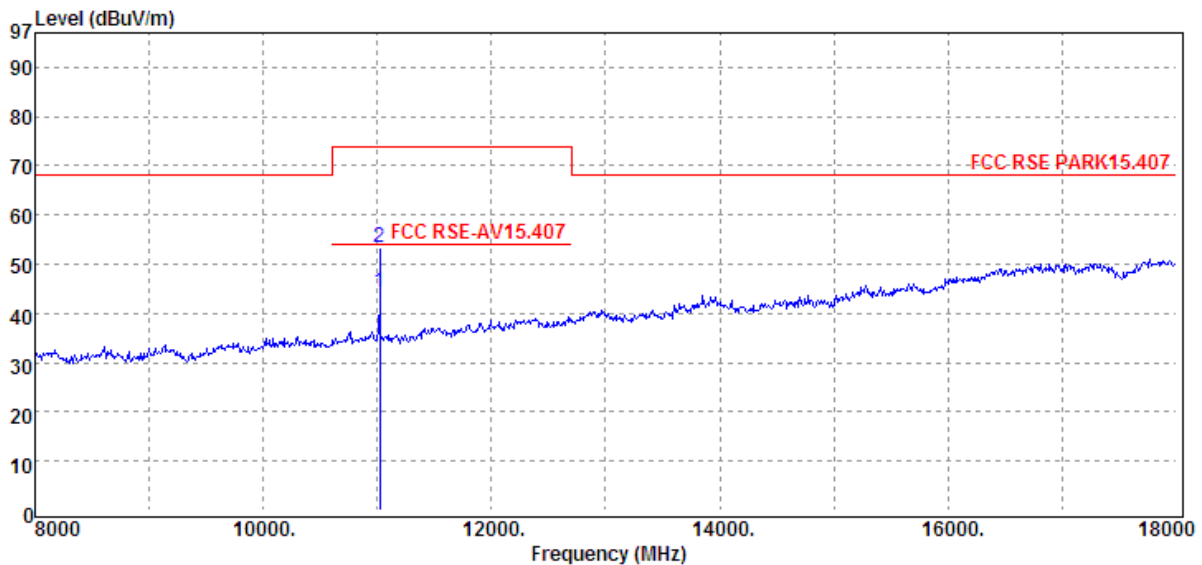
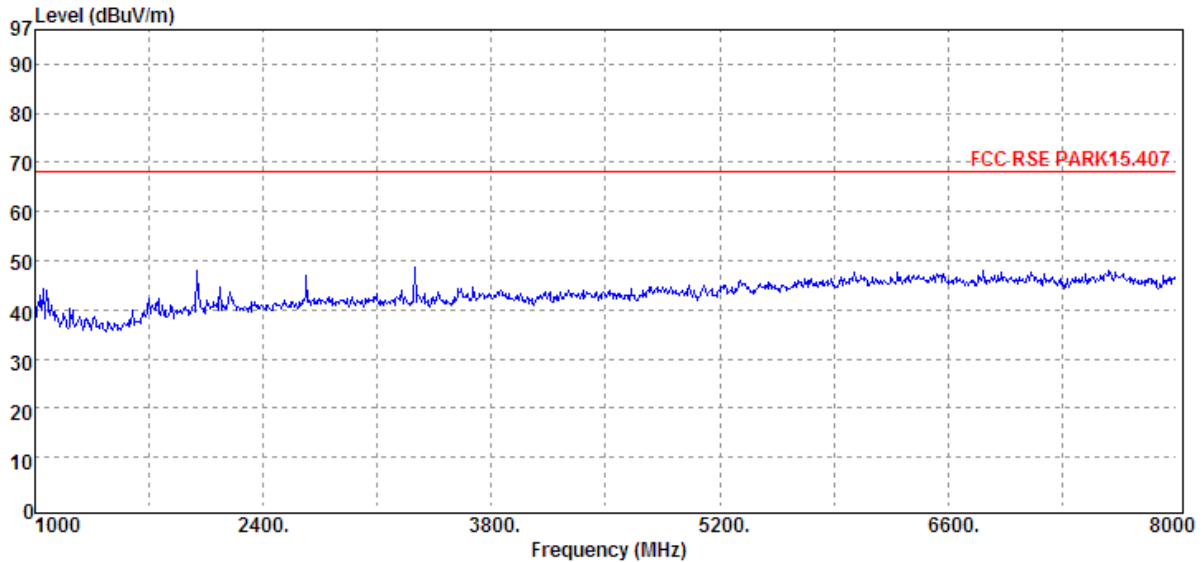
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802.11n HT40MHz 5470-5725MHz

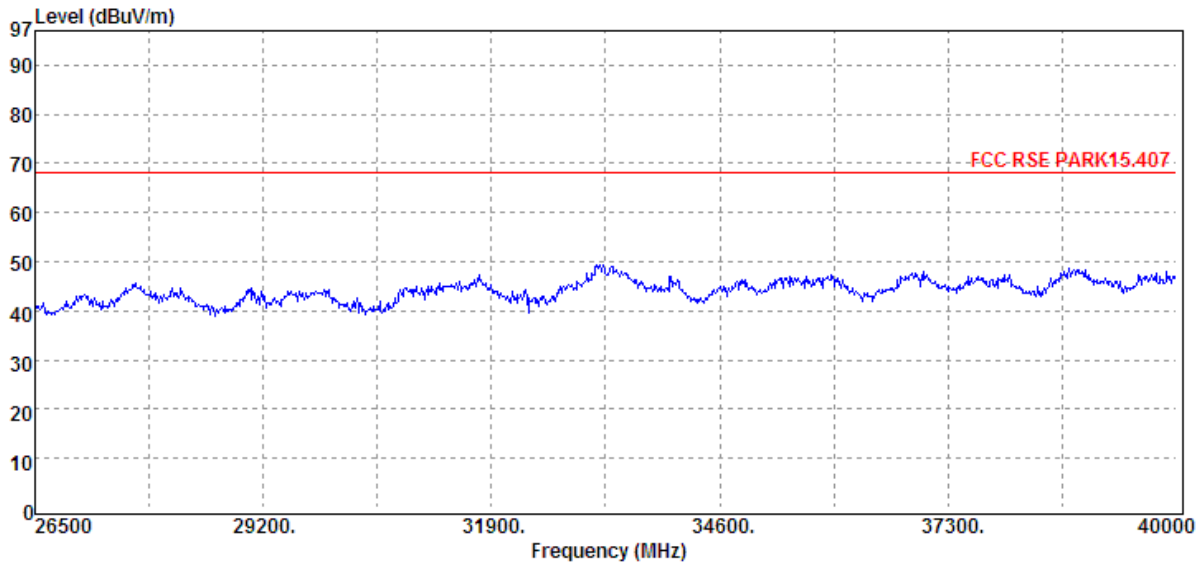
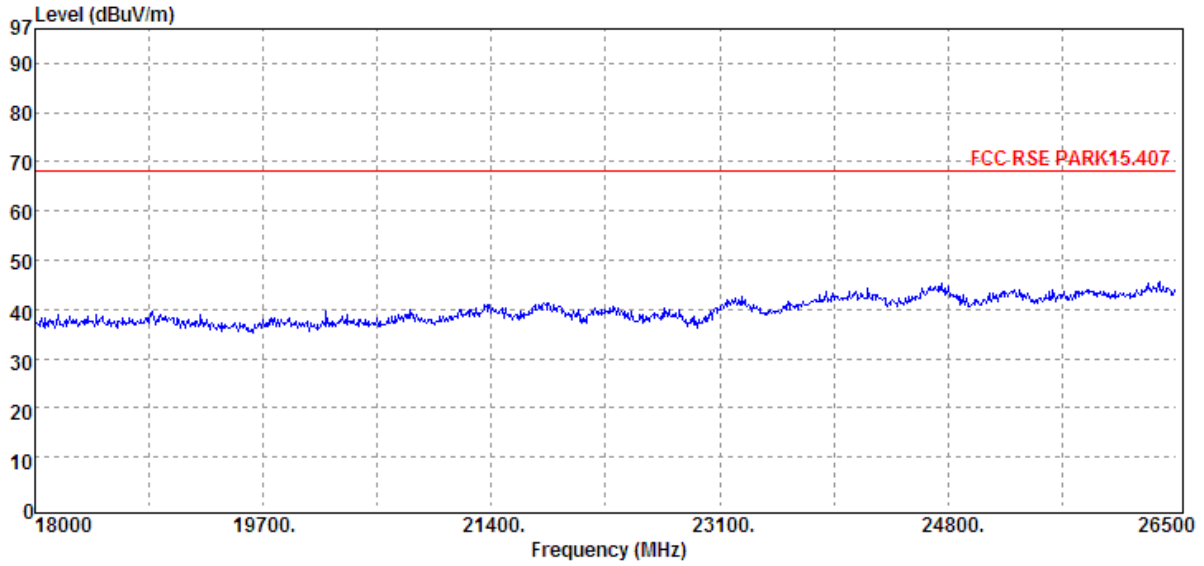
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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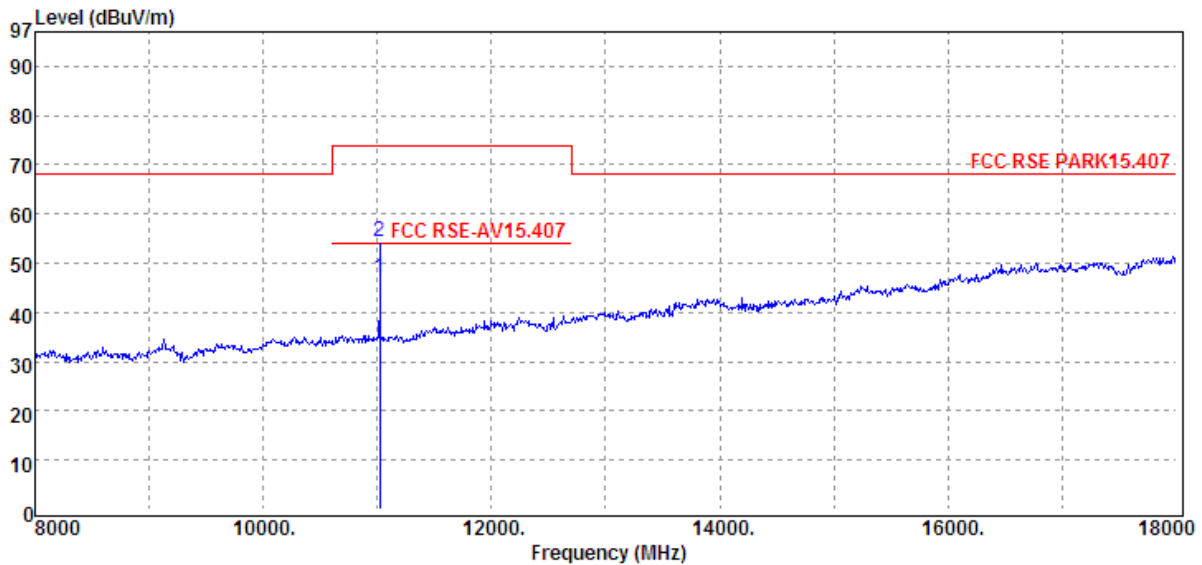
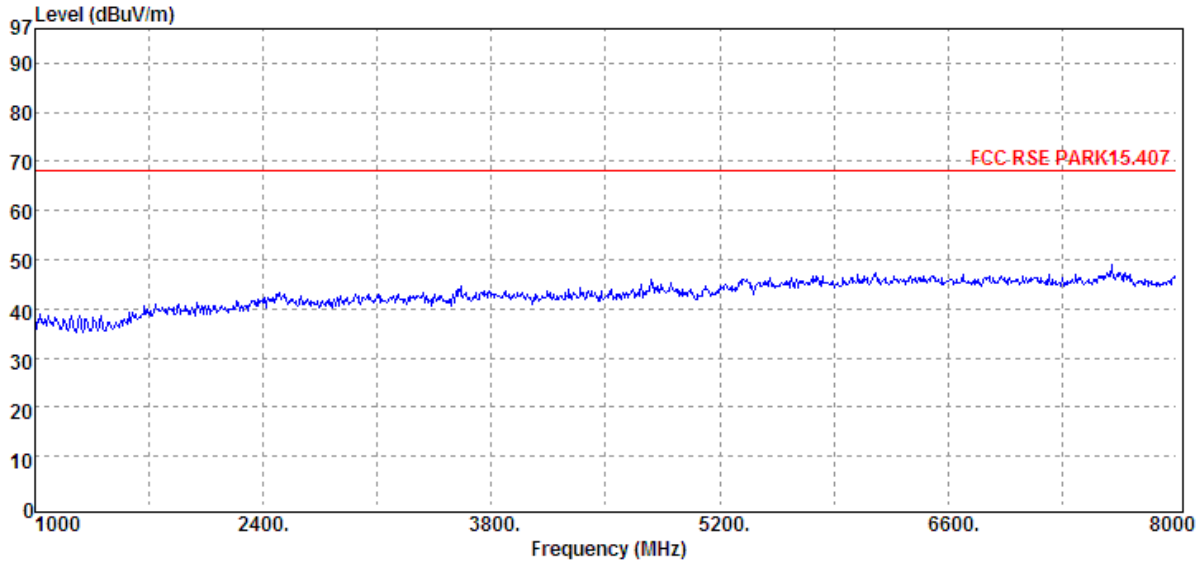


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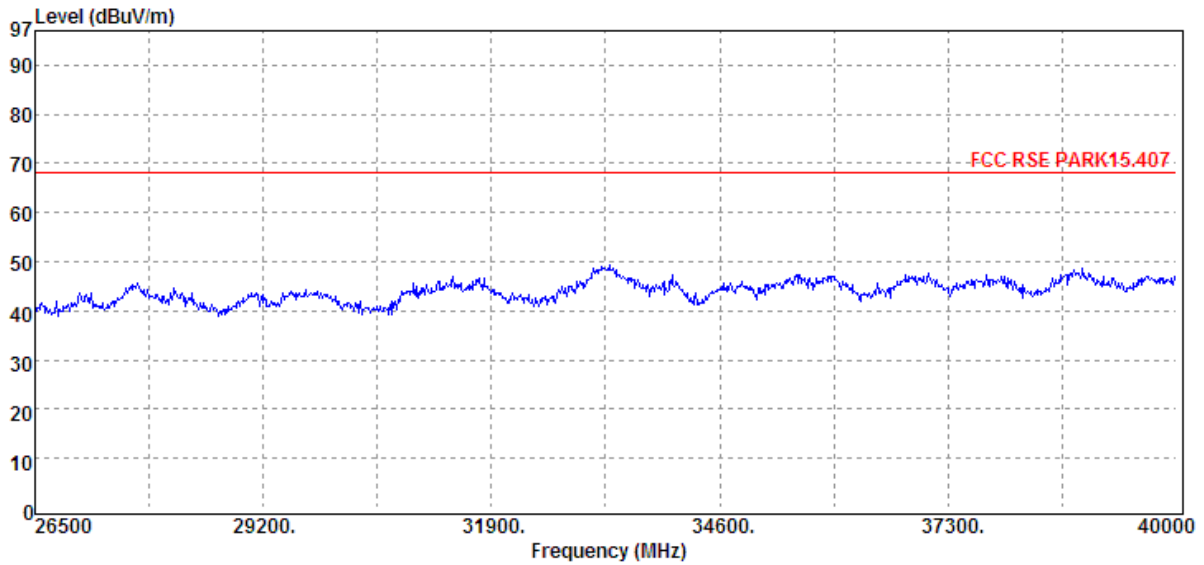
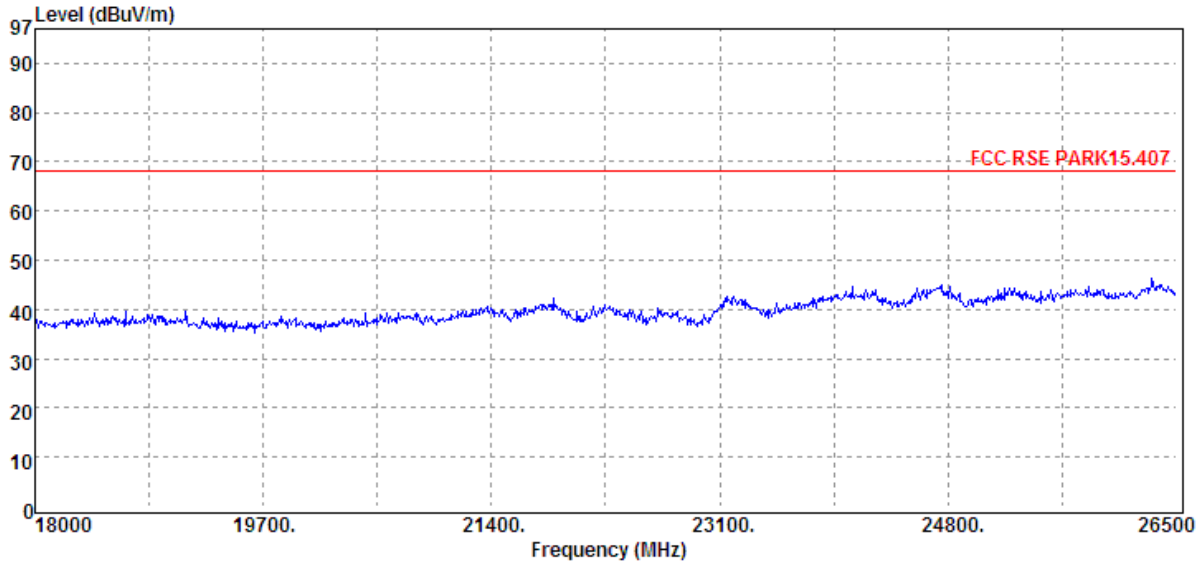
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5510 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX LOW	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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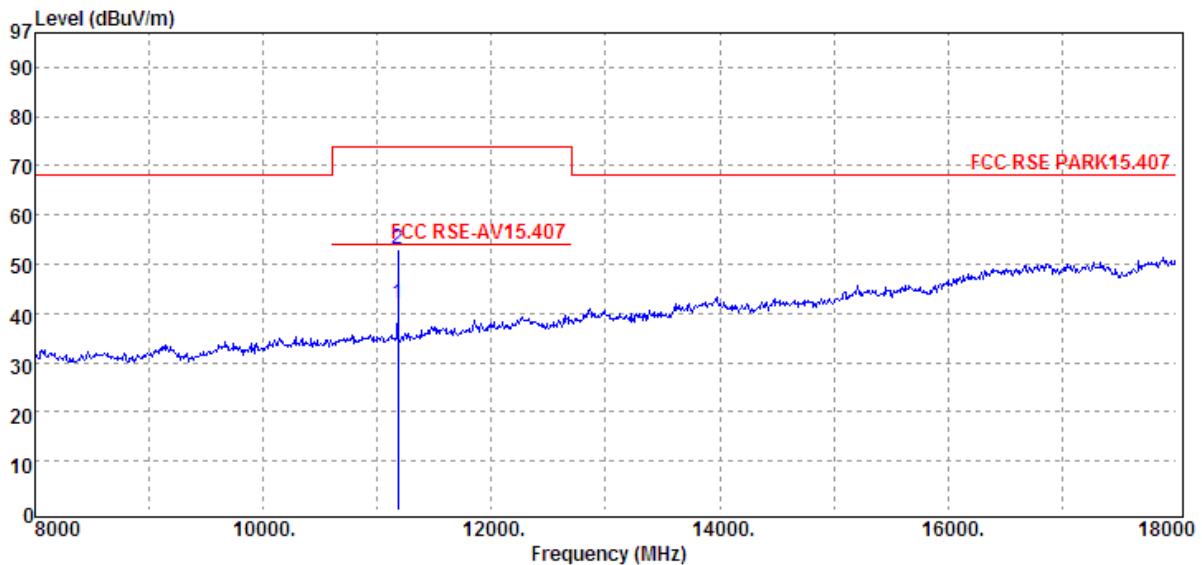
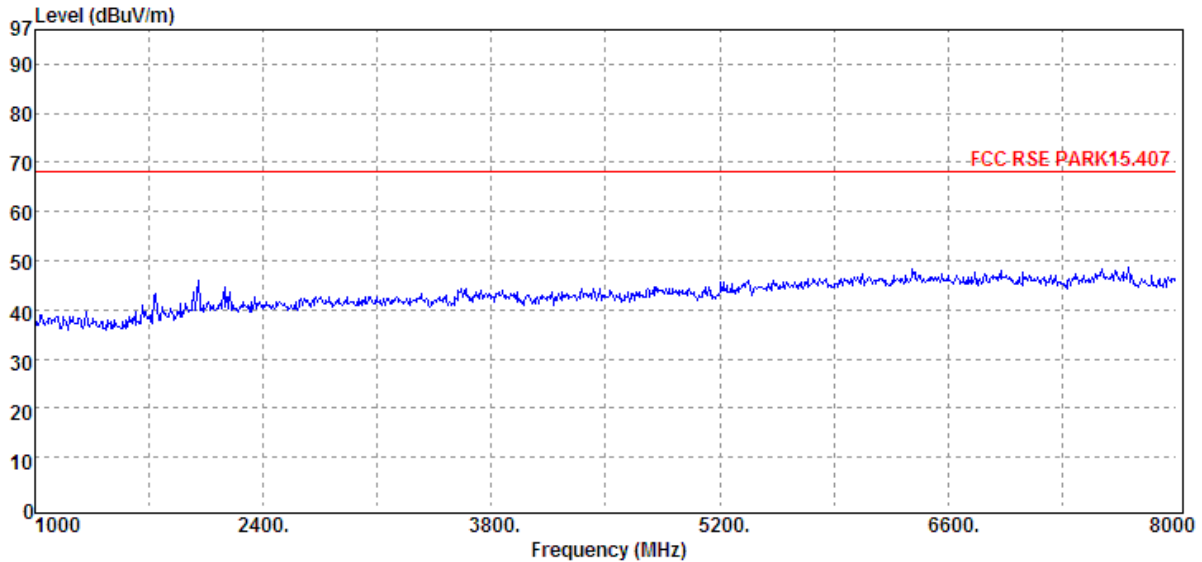


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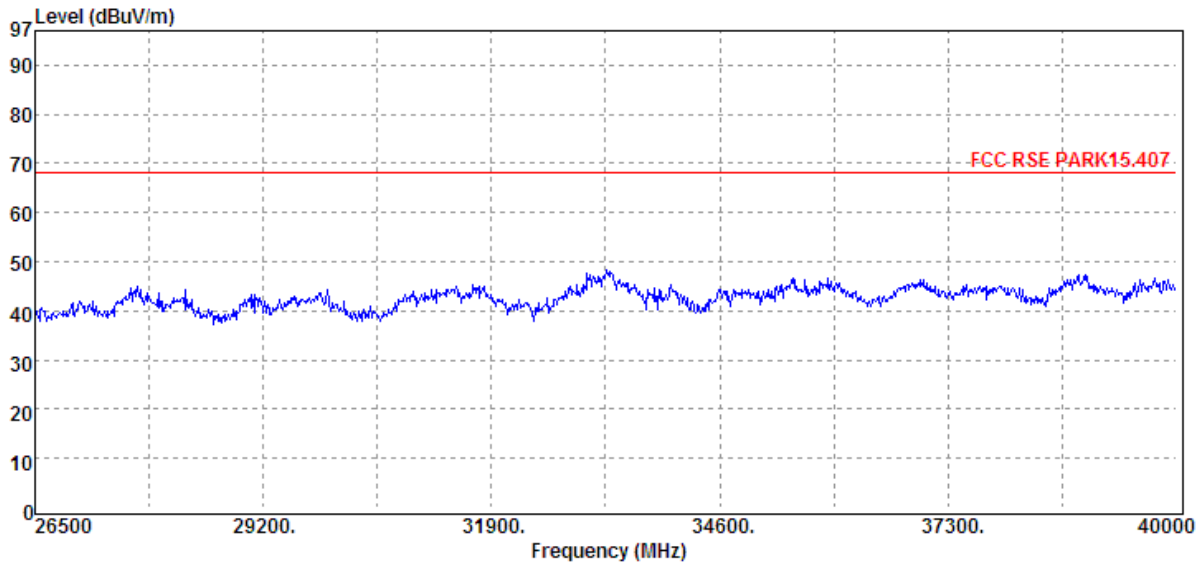
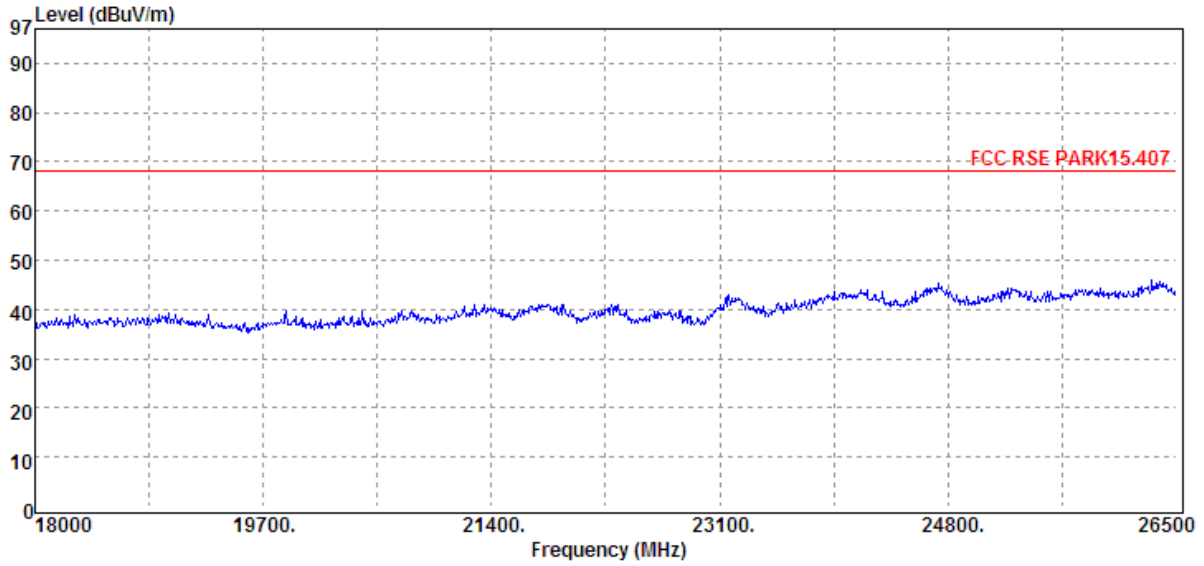
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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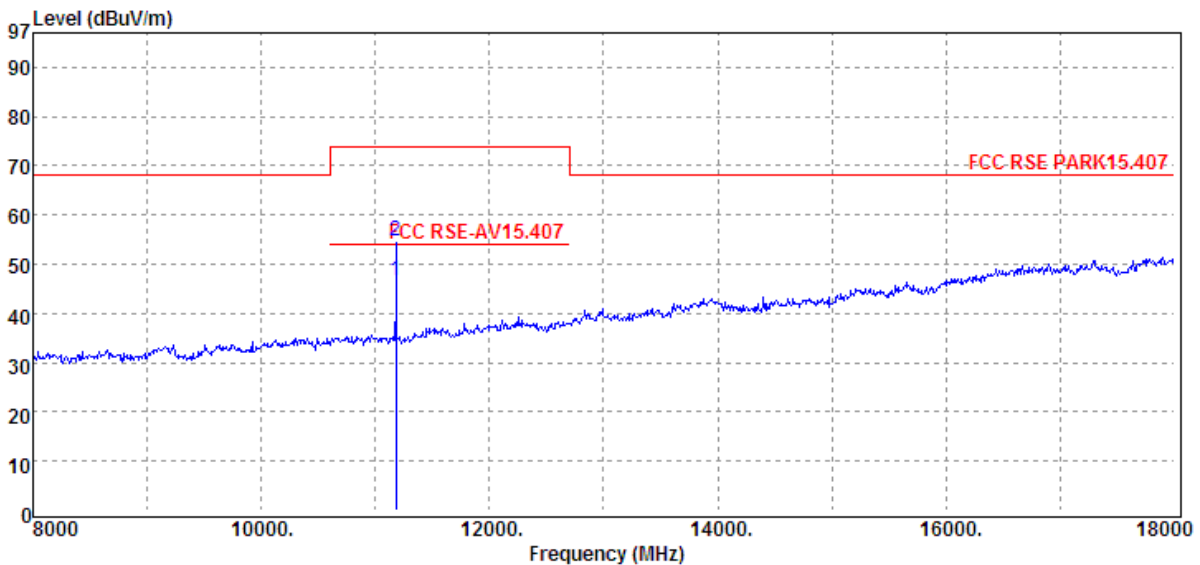
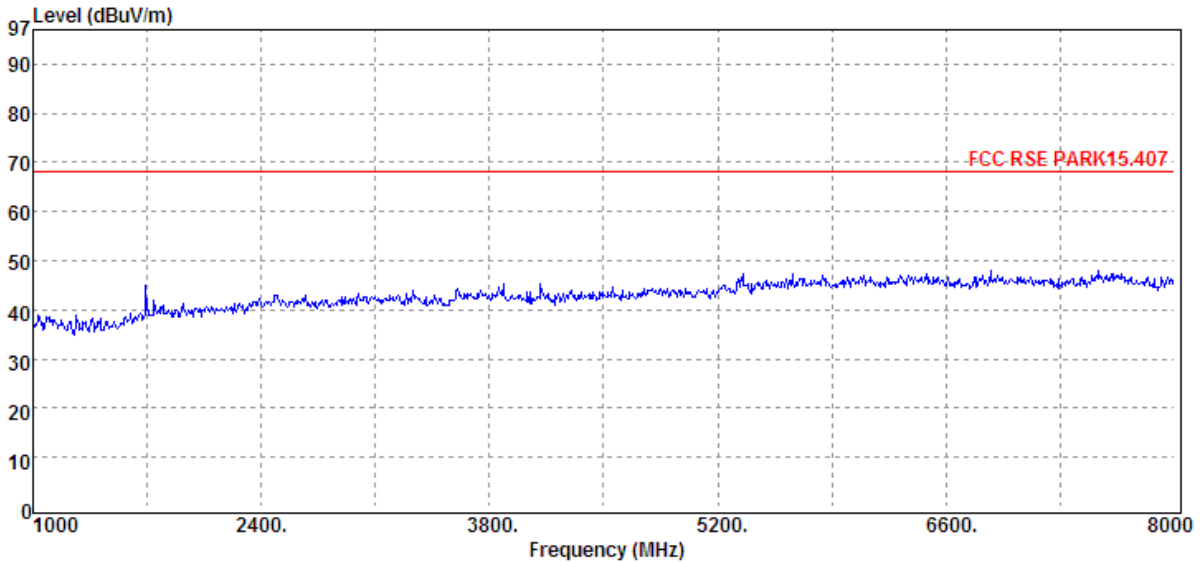


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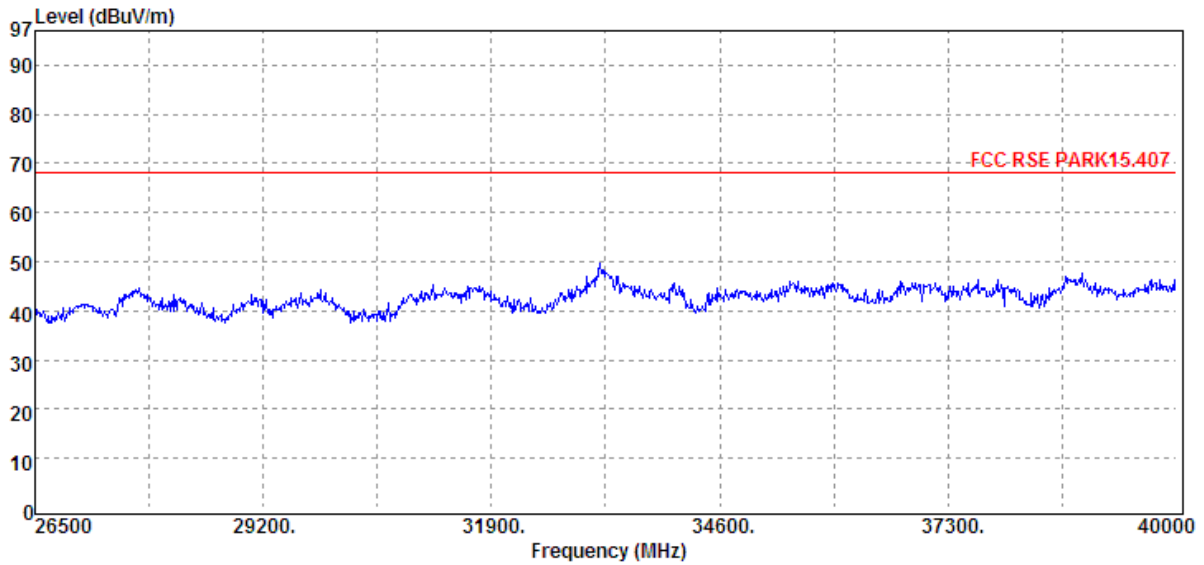
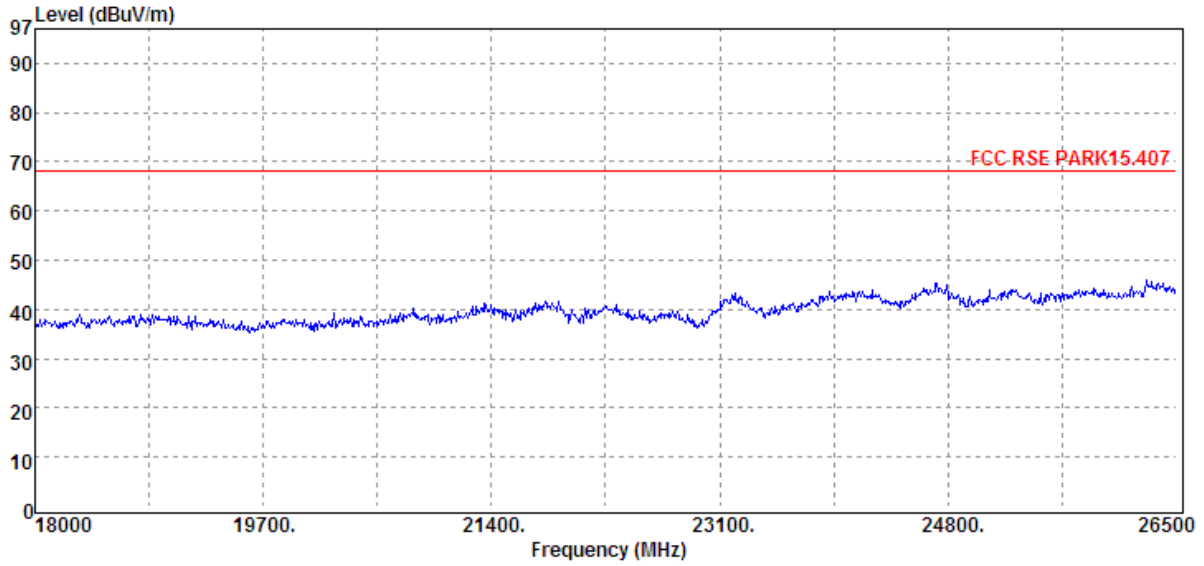
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5550 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX MID	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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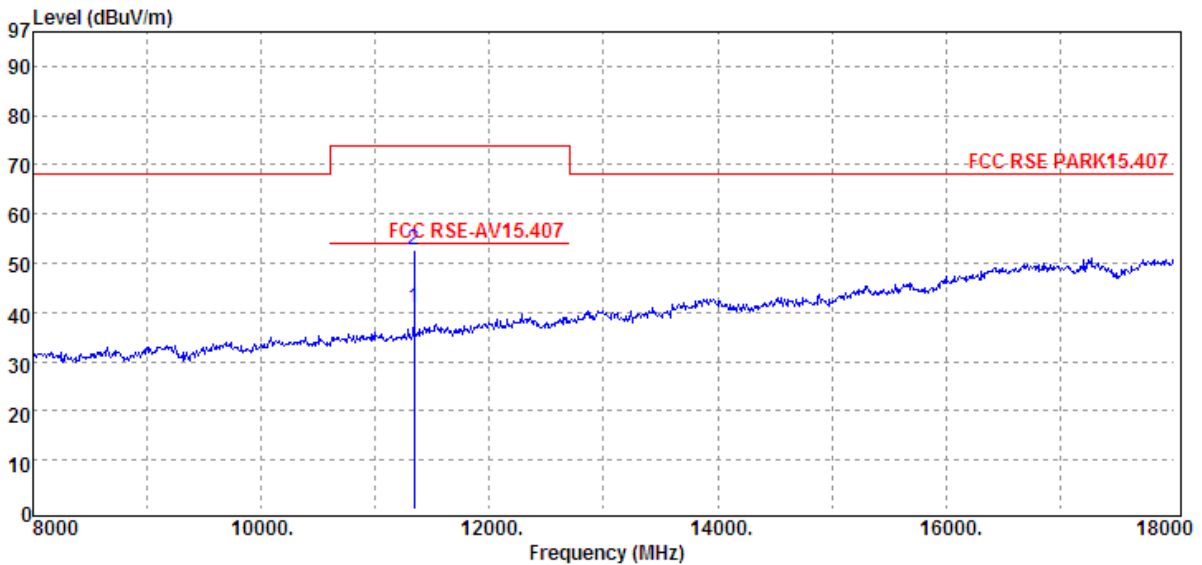
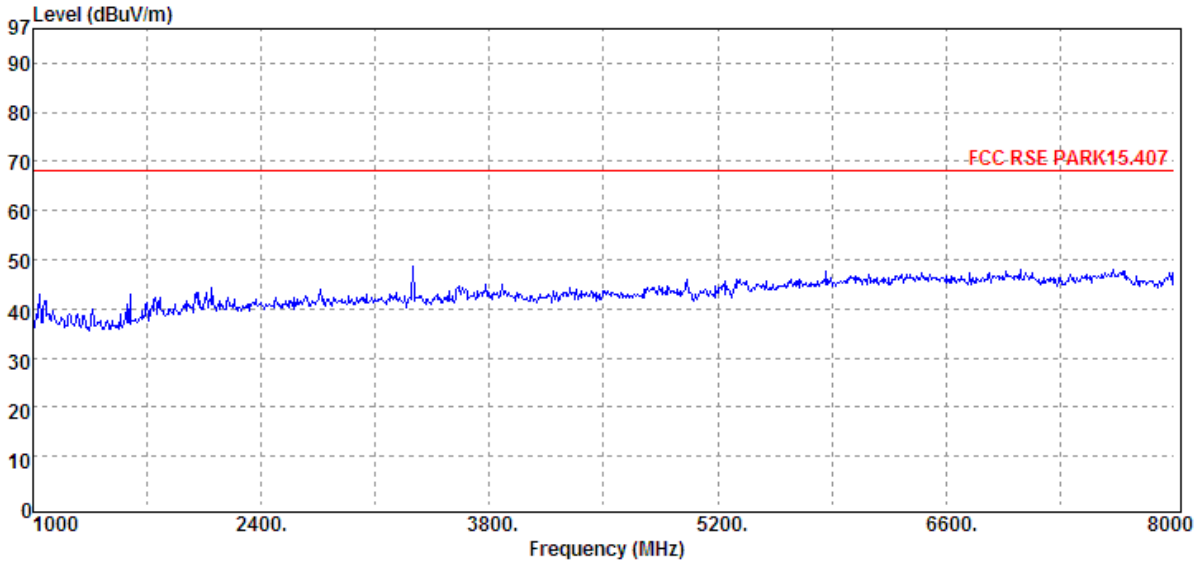


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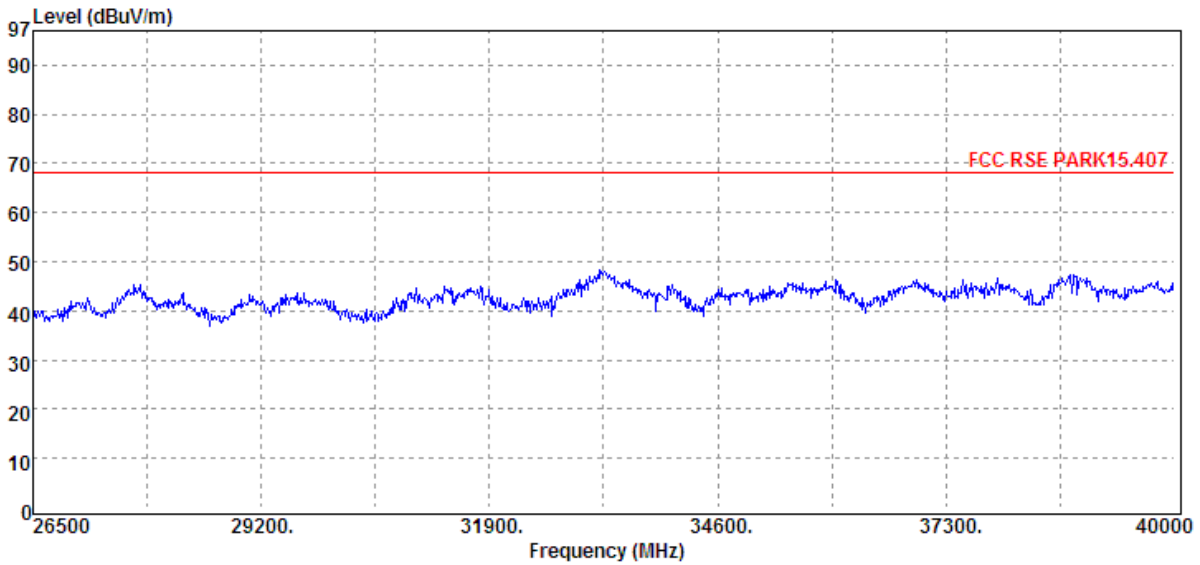
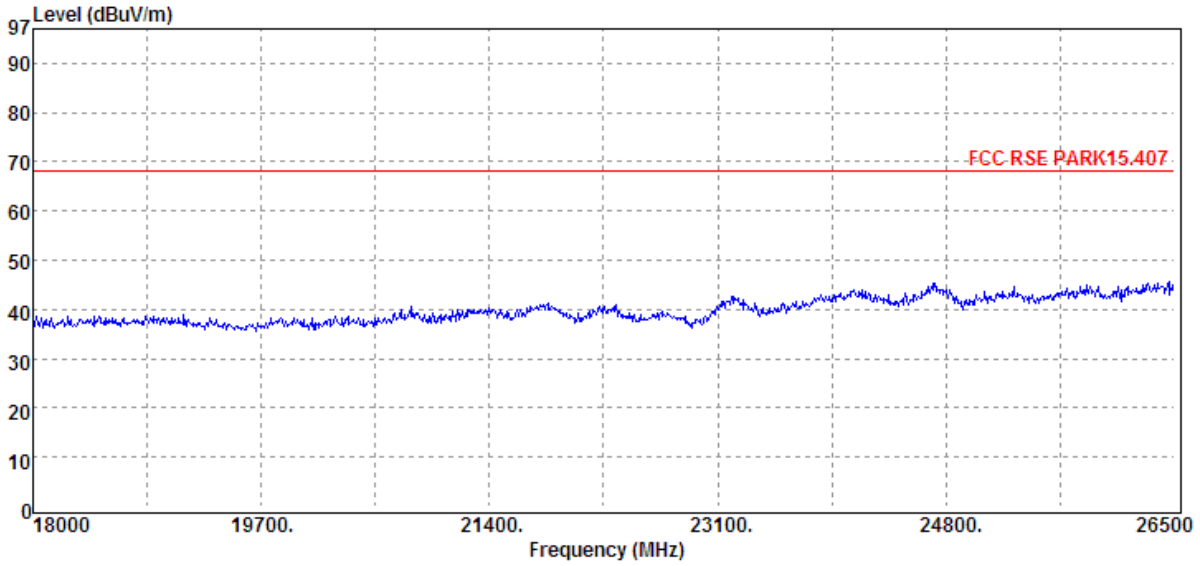
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:VERTICAL



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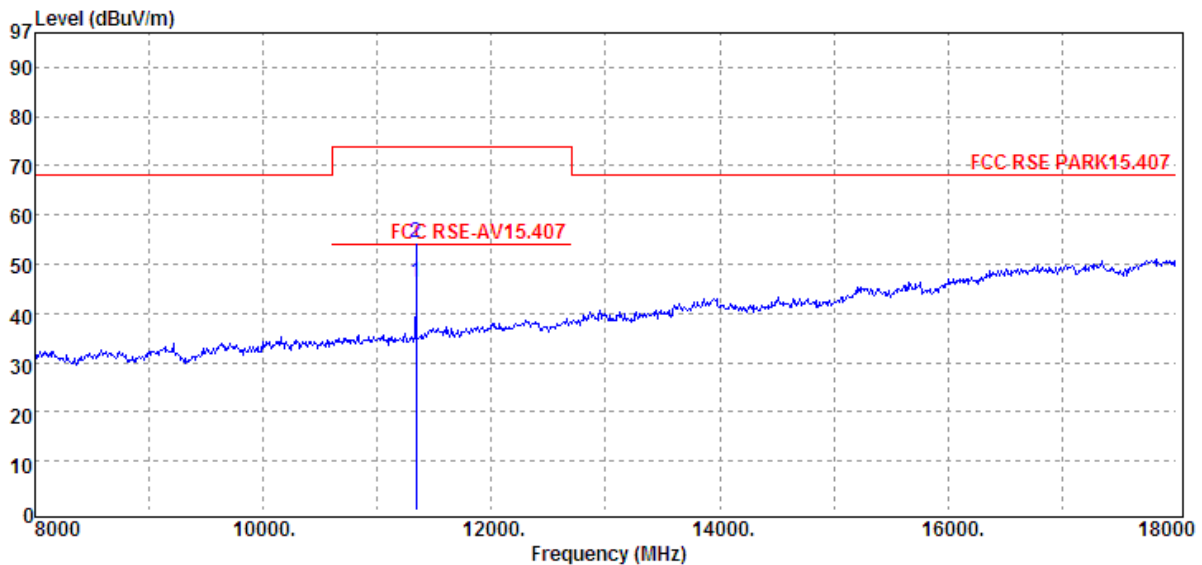
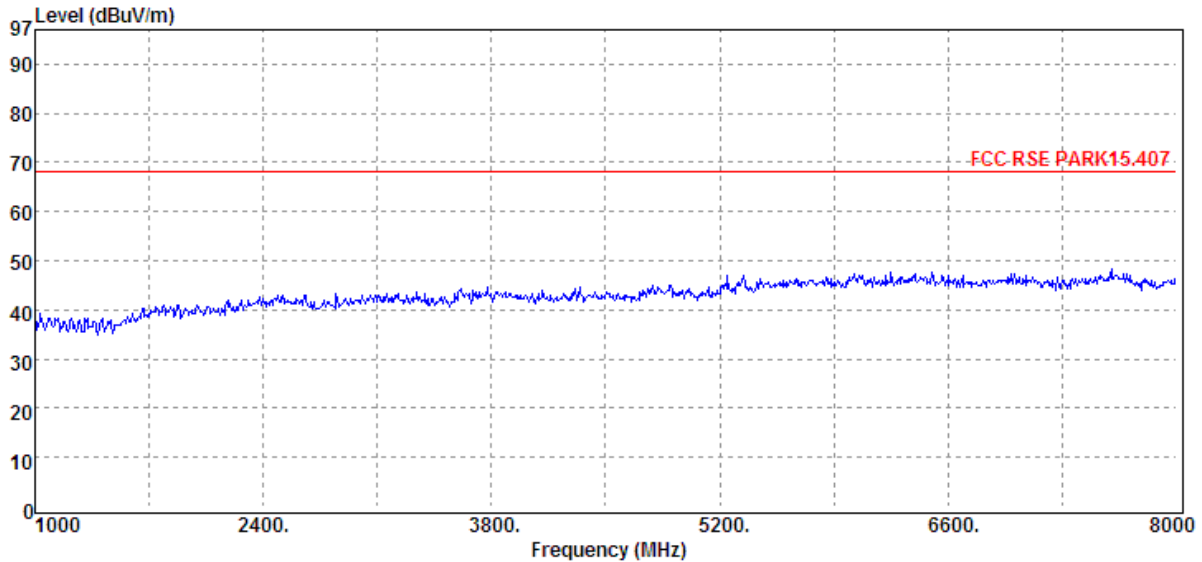


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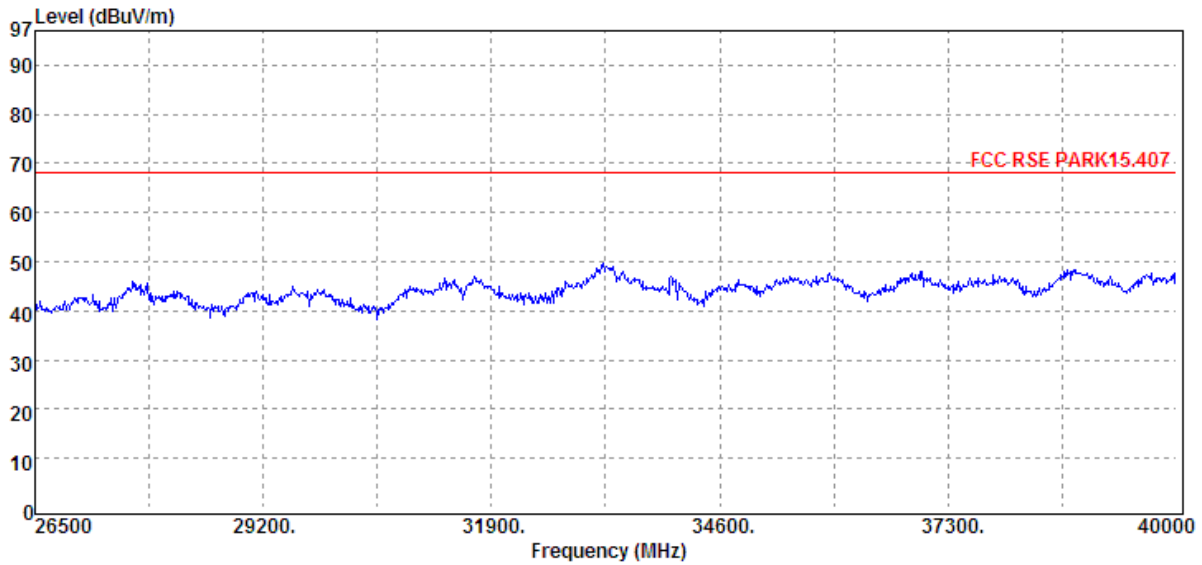
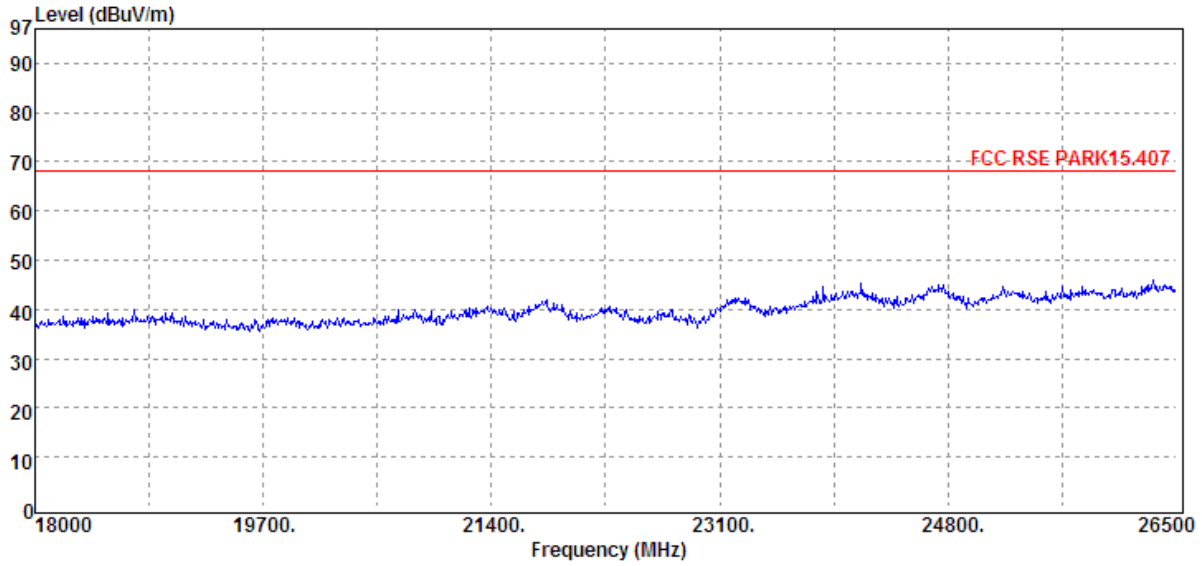
Operation Band	:802.11n40M	Test Date	:2013-05-03
Fundamental Frequency	:5670 MHz	Temp./Humi.	:23deg_C/52RH
Operation Mode	:TX HIGH	Engineer	:Louis
EUT Pol.	:H Plan	Measurement Antenna Pol.	:HORIZONTAL



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~ End of Report ~

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