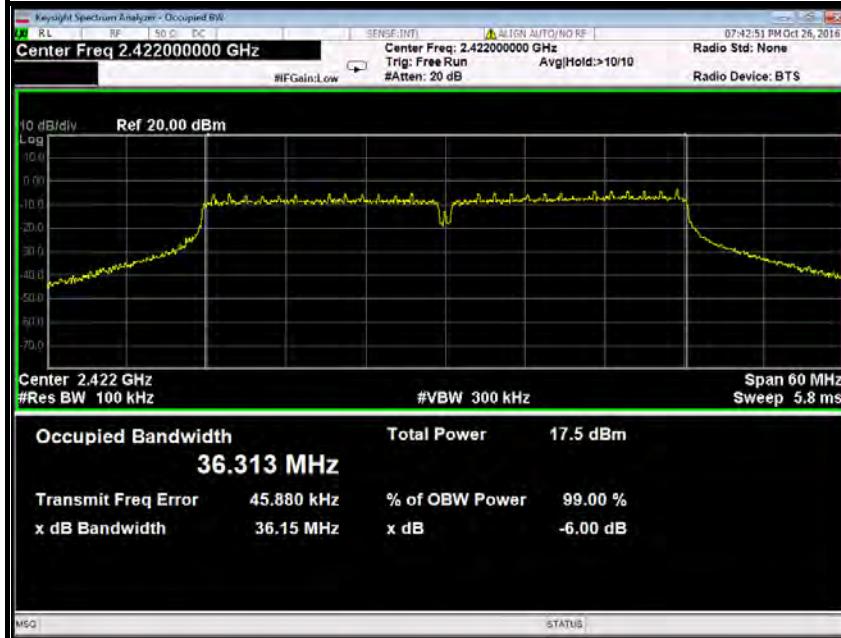


**IEEE 802.11n HT40 MHz mode (Antenna 0)****6dB Bandwidth (CH Low)****6dB Bandwidth (CH Mid)**

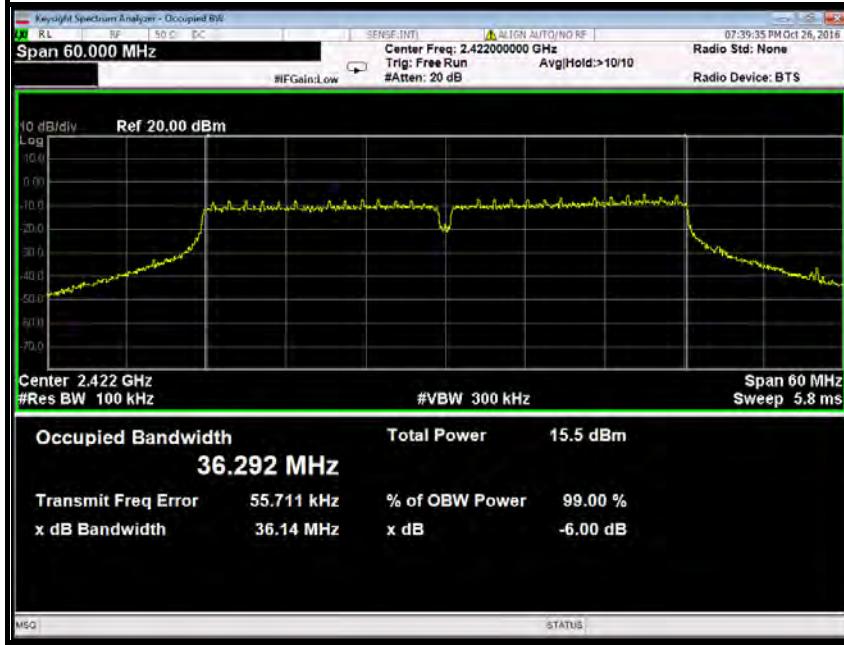


6dB Bandwidth (CH High)



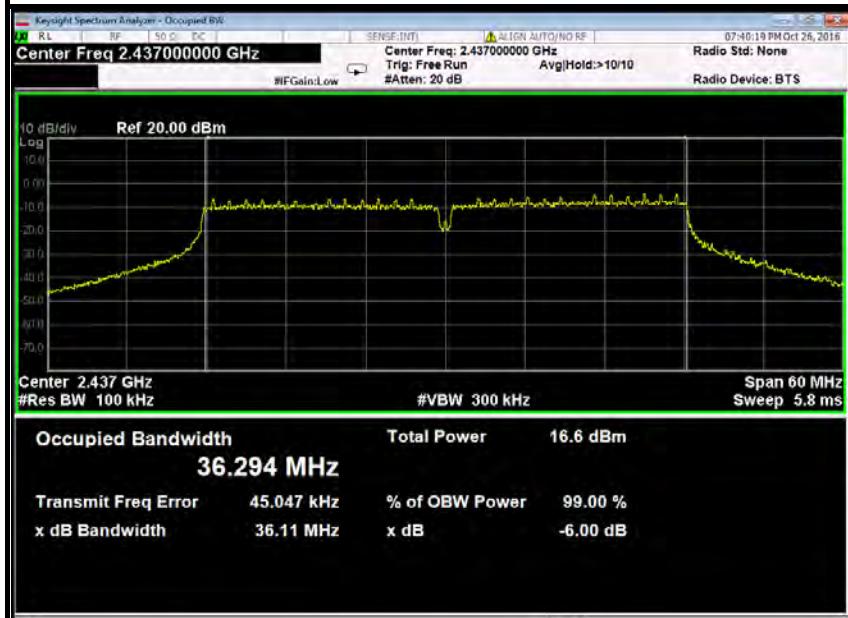
IEEE 802.11n HT40 MHz mode (Antenna 1)

6dB Bandwidth (CH Low)





6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)





7.4. ANTENNA GAIN

MEASUREMENT

The antenna gain of the complete system is calculated by the difference of radiated power in EIRP and the conducted power of the module. For normal WLAN devices, the DSSS mode is used.

MEASUREMENT PARAMETERS

Measurement parameter	
Detector	Peak
Sweep time	Auto
Resolution bandwidth	3 MHz
Video bandwidth	3 MHz
Trace-Mode	Max hold

LIMITS

FCC	IC
Antenna Gain	
6 dBi	

**TEST RESULTS****IEEE 802.11b mode (Antenna 0)**

T _{nom}	V _{nom}	Lowest channel 2412MHz	Middle channel 2437MHz	Highest channel 2462MHz
Conducted power [dBm/MHz] Measured with DSSS modulation		0.58	2.79	3.94
Radiated power [dBm/MHz] Measured with DSSS modulation		2.41	4.28	5.36
Gain [dBi] Calculated		1.83	1.49	1.42
Measurement uncertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			

IEEE 802.11b mode (Antenna 1)

T _{nom}	V _{nom}	Lowest channel 2412MHz	Middle channel 2437MHz	Highest channel 2462MHz
Conducted power [dBm/MHz] Measured with DSSS modulation		2.79	4.00	5.44
Radiated power [dBm/MHz] Measured with DSSS modulation		4.34	5.59	6.89
Gain [dBi] Calculated		1.55	1.59	1.45
Measurement uncertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			



7.5. PEAK OUTPUT POWER

7.5.1. LIMITS

The maximum peak output power of the intentional radiator shall not exceed the following:

1. According to §15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

7.5.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Power Meter	Anritsu	ML2495A	1204003	02/21/2016	02/20/2017
Power Sensor	Anritsu	MA2411B	1126150	02/21/2016	02/20/2017

7.5.3. TEST PROCEDURES (please refer to measurement standard)

9.1.1 RBW \geq DTS bandwidth

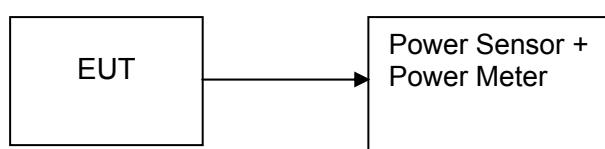
This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the *DTS bandwidth*.

- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW \geq 3 RBW.
- c) Set span \geq 3 x RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

9.1.2 PKPM1 Peak power meter method

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

7.5.4. TEST SETUP





7.5.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 0)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	11.98	0.01578	Peak	1	PASS
Mid	2437	14.19	0.02624			PASS
High	2462	15.35	0.03428			PASS
Low	2412	10.09	0.01021	AVG	1	PASS
Mid	2437	12.28	0.01690			PASS
High	2462	13.78	0.02388			PASS

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	14.19	0.02624	Peak	1	PASS
Mid	2437	15.41	0.03475			PASS
High	2462	16.86	0.04853			PASS
Low	2412	12.49	0.01774	AVG	1	PASS
Mid	2437	13.85	0.02427			PASS
High	2462	15.28	0.03373			PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	17.33	0.05408	Peak	1	PASS
Mid	2437	18.64	0.07311			PASS
High	2462	20.50	0.11220			PASS
Low	2412	8.80	0.00759	AVG	1	PASS
Mid	2437	10.62	0.01153			PASS
High	2462	11.90	0.01549			PASS

**Test mode: IEEE 802.11g (Antenna 1)**

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	16.28	0.04246	Peak	1	PASS
Mid	2437	17.35	0.05433			PASS
High	2462	19.27	0.08453			PASS
Low	2412	7.29	0.00536	AVG	1	PASS
Mid	2437	9.13	0.00818			PASS
High	2462	10.45	0.01109			PASS

Test mode: IEEE 802.11n HT20 MHz(Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)			Output Power (W)	Peak / AVG	Limit (W)	Result
		Antenna 0	Antenna 1	Total				
Low	2412	17.11	16.86	20.00	0.09993	Peak	1	PASS
Mid	2437	17.63	17.23	20.44	0.11079			PASS
High	2462	19.24	18.61	21.95	0.15656			PASS
Low	2412	8.18	7.49	10.86	0.01219	AVG	1	PASS
Mid	2437	9.57	9.81	12.70	0.01863			PASS
High	2462	10.96	10.81	13.90	0.02452			PASS

Test mode: IEEE 802.11n HT40 MHz(Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)			Output Power (W)	Peak / AVG	Limit (W)	Result
		Antenna 0	Antenna 1	Total				
Low	2422	21.77	18.01	23.30	0.21356	Peak	1	PASS
Mid	2437	22.32	18.58	23.85	0.24272			PASS
High	2452	21.98	20.05	24.13	0.25892			PASS
Low	2422	9.89	6.63	11.57	0.01435	AVG	1	PASS
Mid	2437	10.68	7.21	12.29	0.01696			PASS
High	2452	11.13	9.87	13.56	0.02268			PASS



7.6. BAND EDGES MEASUREMENT

7.6.1. LIMITS

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

7.6.2. TEST INSTRUMENTS

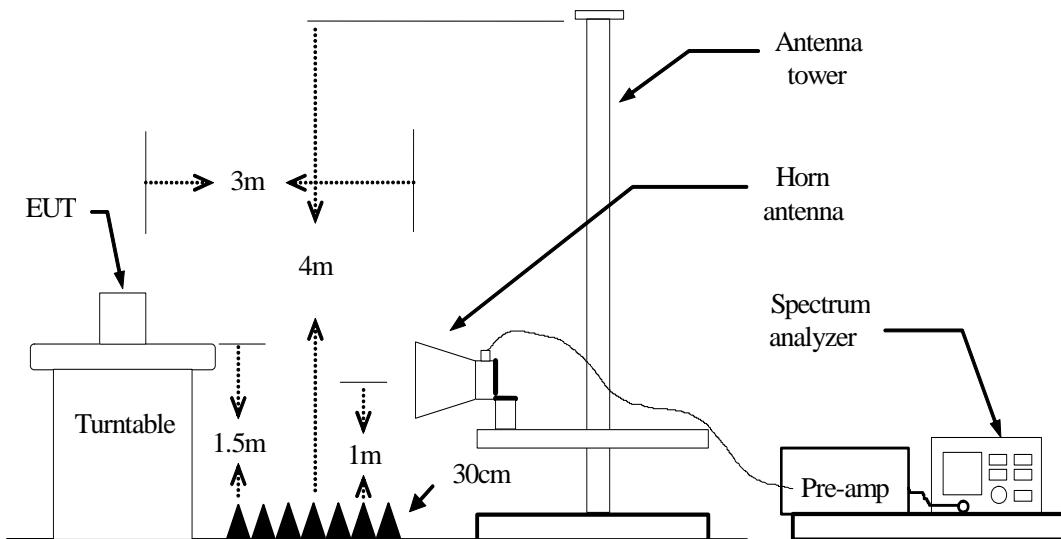
Radiated Emission Test Site 966 (2)					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
PSA Series Spectrum Analyzer	Agilent	E4446A	US44300399	02/21/2016	02/20/2017
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2016	02/20/2017
Amplifier	EMEC	EM330	060661	03/18/2016	03/17/2017
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2016	02/20/2017
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2016	02/20/2017
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/28/2016	02/27/2017
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/28/2016	02/27/2017
Turn Table	N/A	N/A	N/A	N.C.R	N.C.R
Antenna Tower	SUNOL	TLT2	N/A	N.C.R	N.C.R
Controller	Sunol Sciences	SC104V	022310-1	N.C.R	N.C.R
Controller	CT	N/A	N/A	N.C.R	N.C.R
Temp. / Humidity Meter	Anymetre	JR913	N/A	02/21/2016	02/20/2017
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The FCC Site Registration number is 101879.
3. N.C.R = No Calibration Required.

7.6.3. TEST PROCEDURES (please refer to measurement standard)

1. The EUT is placed on a turntable, which is 1.5m above the ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz / VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz, 750Hz, 1.6kHz / Sweep=AUTO / Detector=PEAK
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are

7.6.4. TEST SETUP





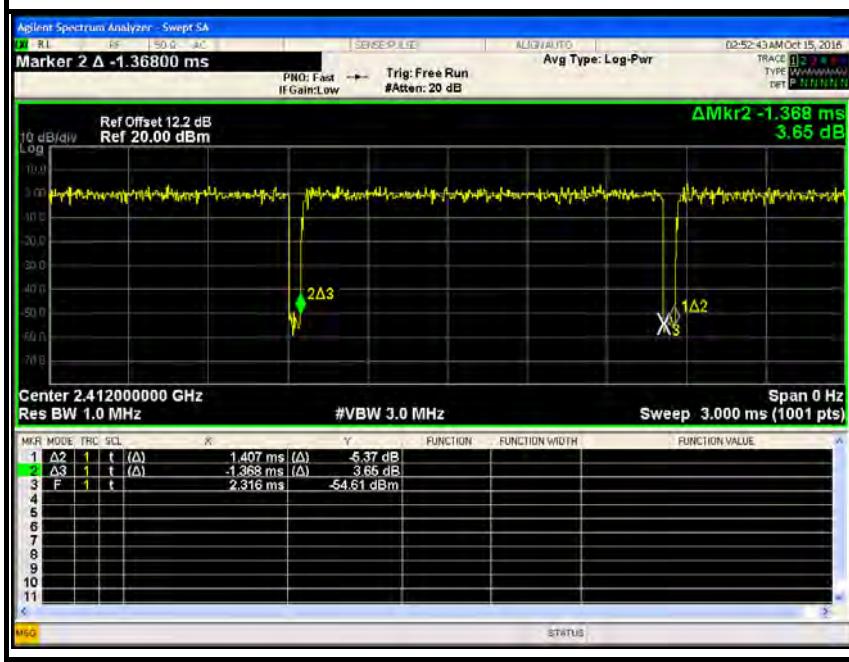
7.6.5. TEST RESULTS

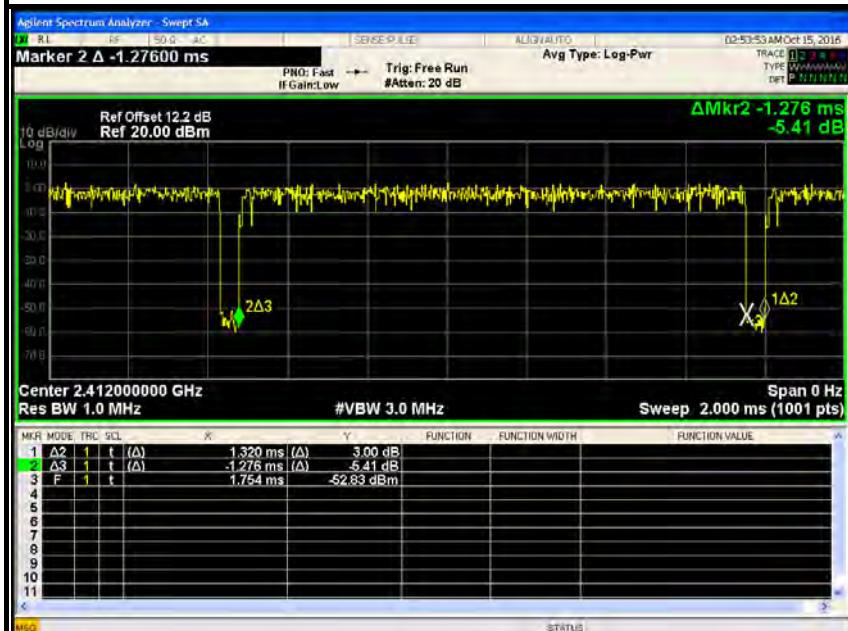
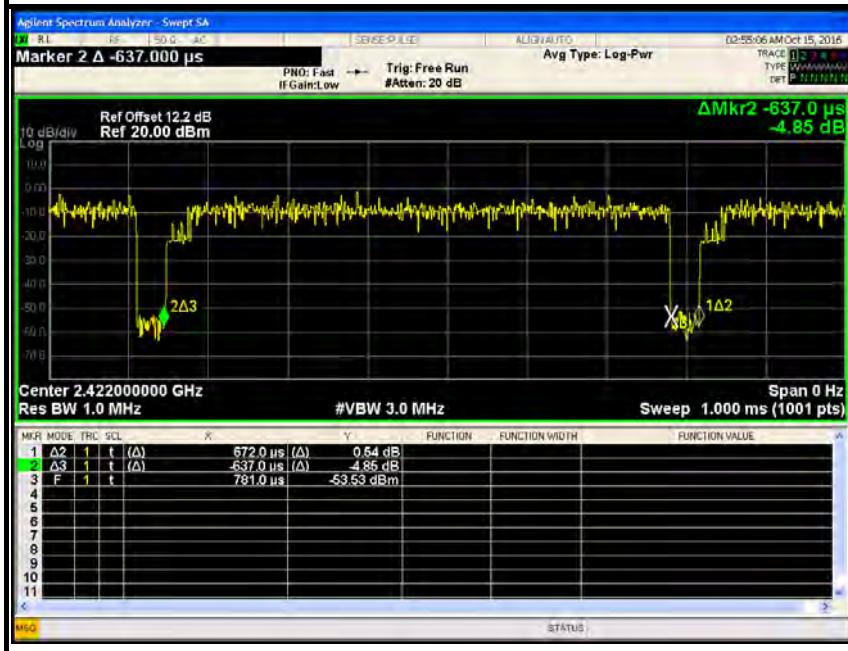
Duty Cycle Test Plot

IEEE 802.11b mode



IEEE 802.11g mode



**IEEE 802.11n HT20 mode****IEEE 802.11n HT40 mode**

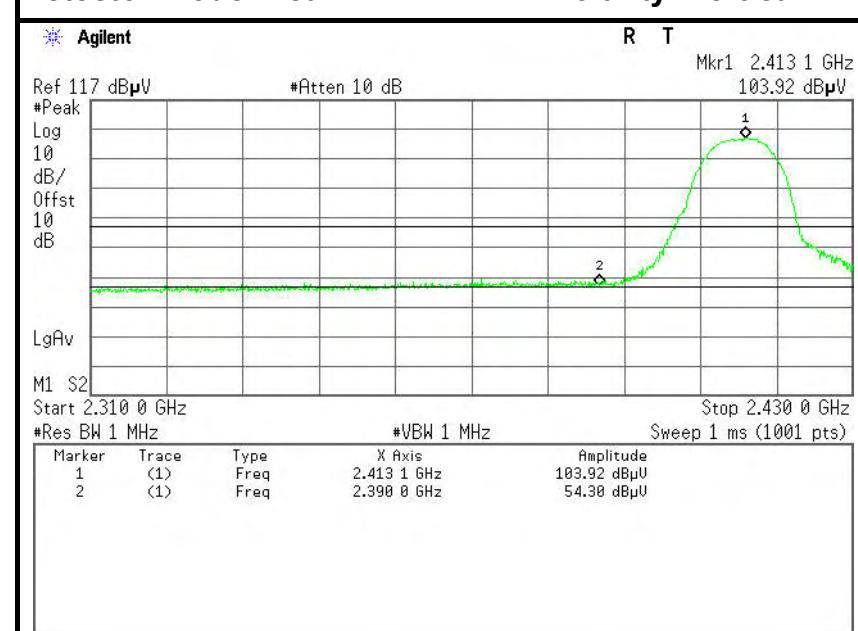


Test Plot

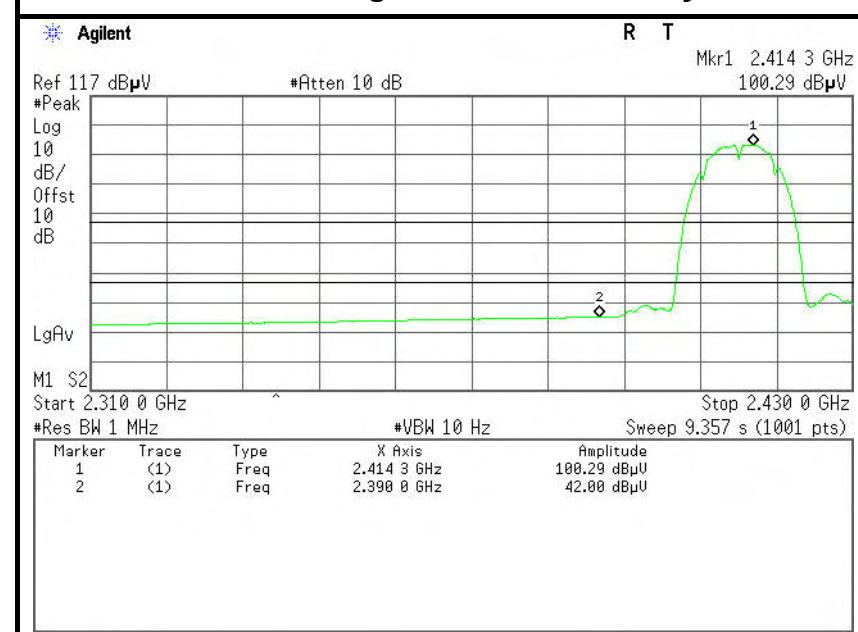
IEEE 802.11b mode (Antenna 0)

Band Edges (CH Low)

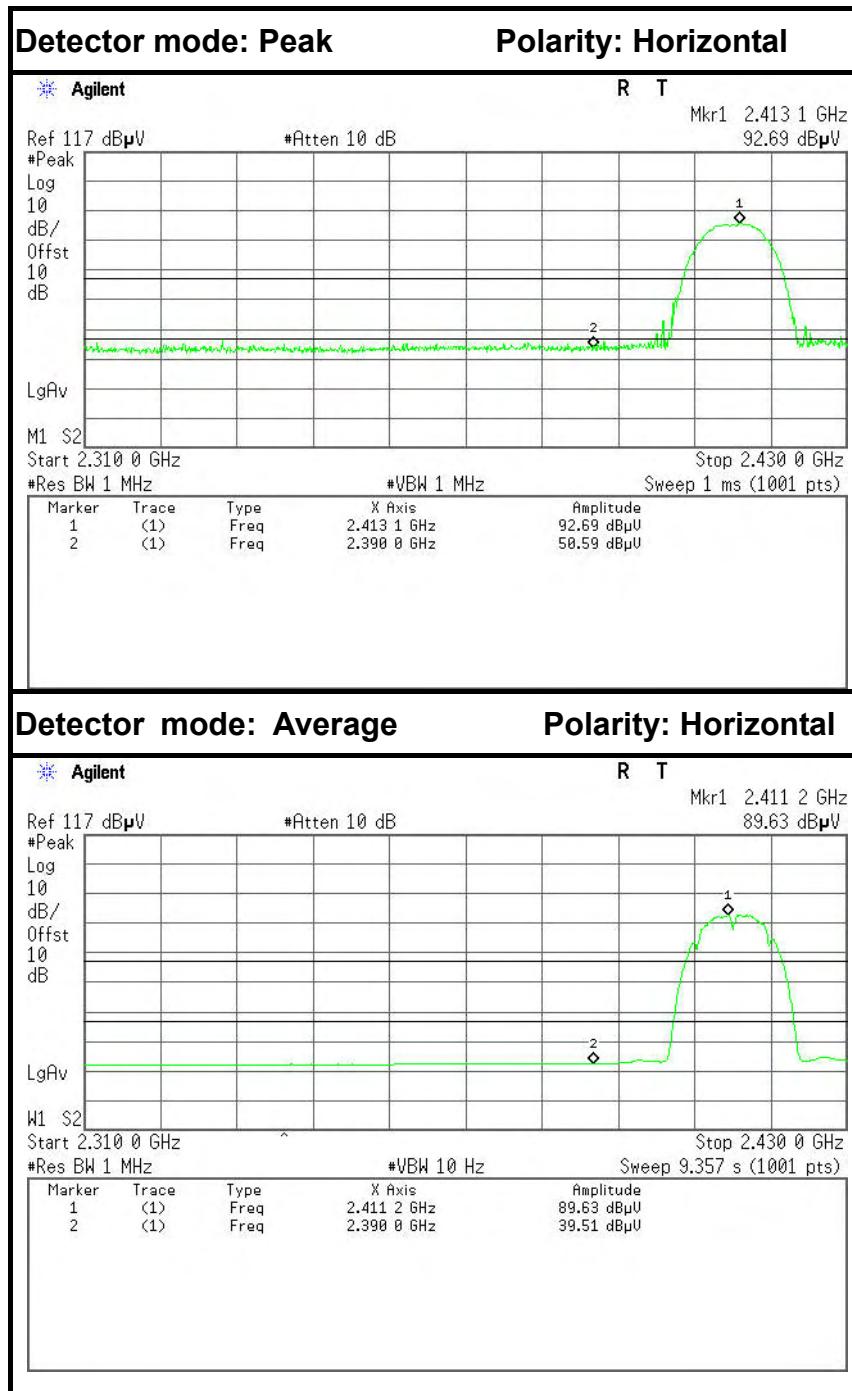
Detector mode: Peak Polarity: Vertical



Detector mode: Average Polarity: Vertical



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	47.70	-6.60	54.30	74.00	-19.70	Peak	Vertical
2	2390.0000	35.40	-6.60	42.00	54.00	-12.00	Average	Vertical



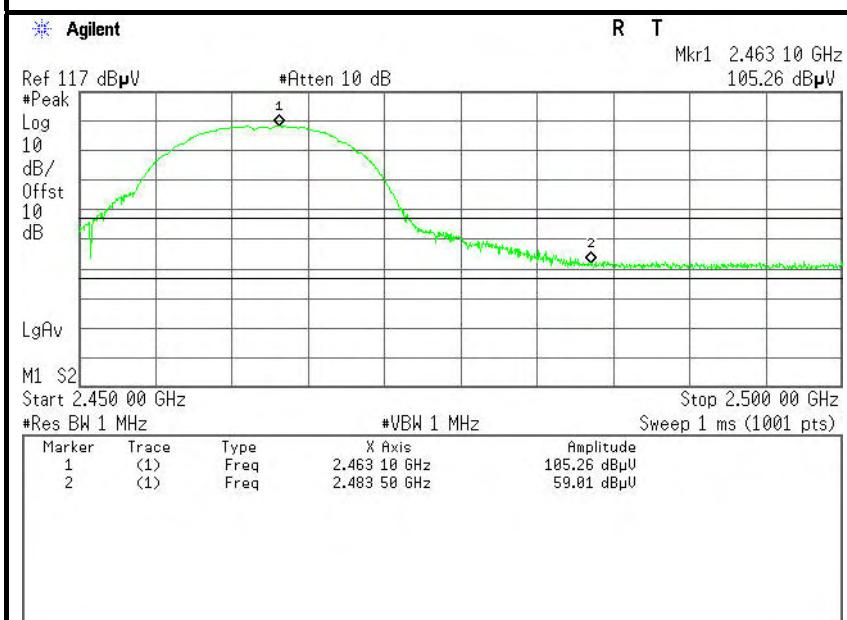
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	43.99	-6.60	50.59	74.00	-23.41	Peak	Horizontal
2	2390.0000	32.91	-6.60	39.51	54.00	-14.49	Average	Horizontal



Band Edges (CH High)

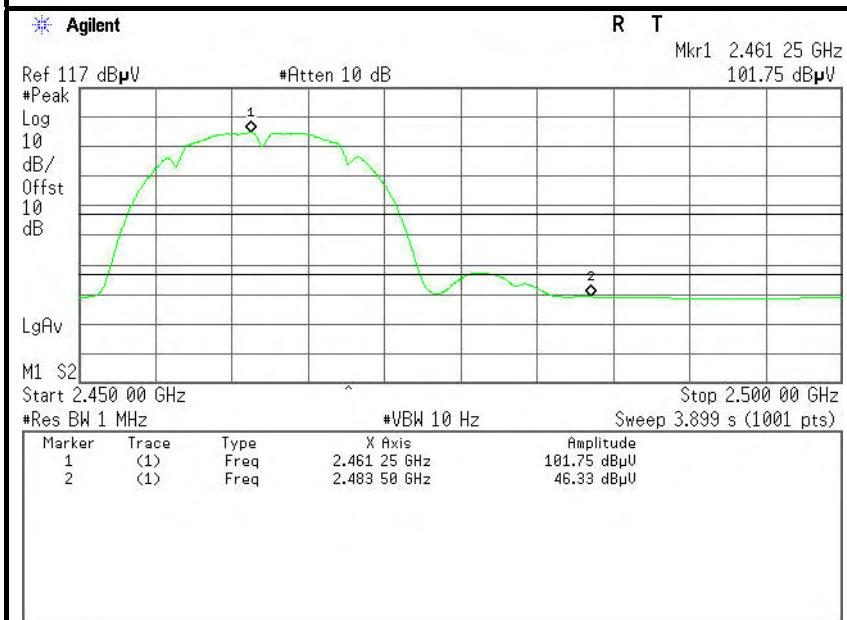
Detector mode: Peak

Polarity: Vertical

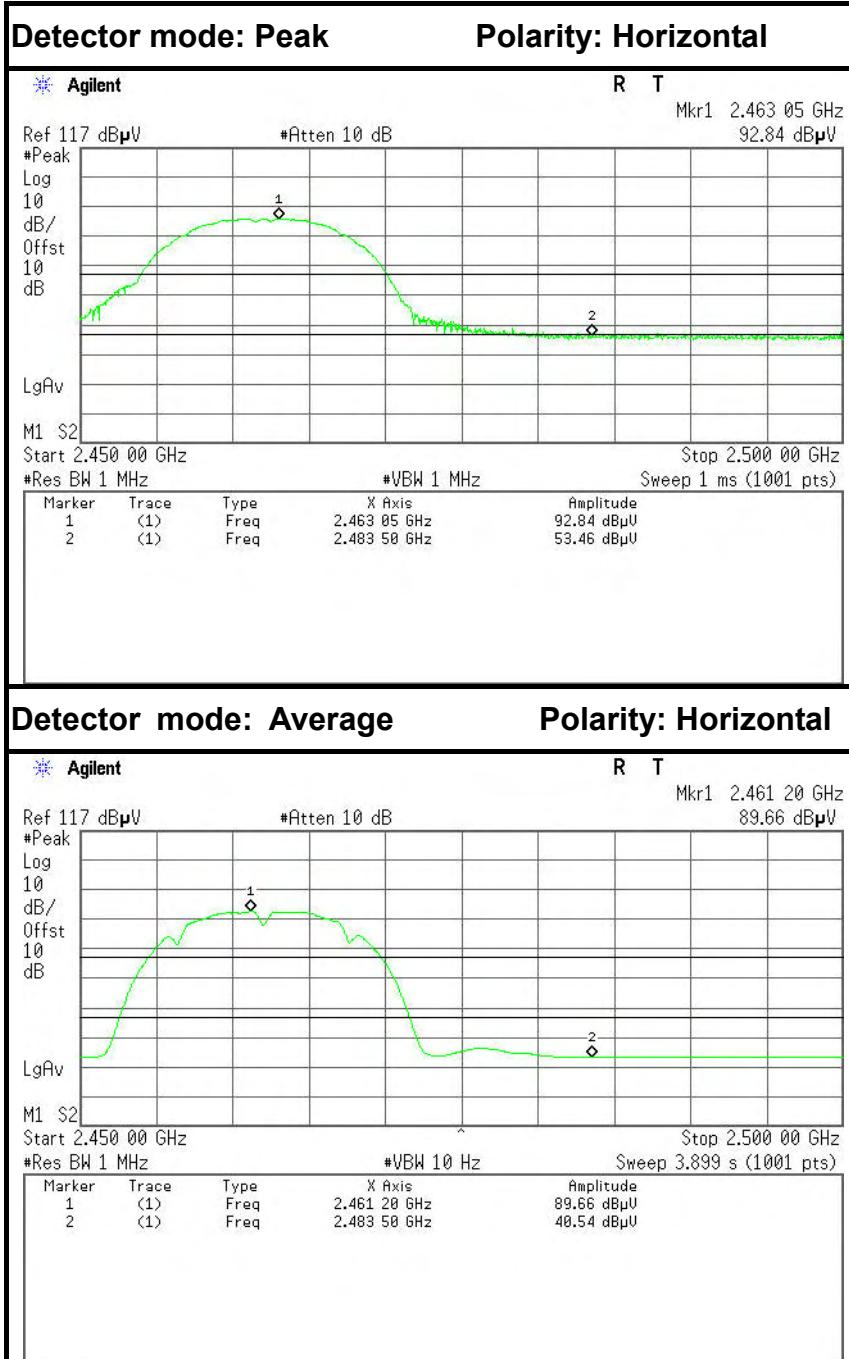


Detector mode: Average

Polarity: Vertical



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	52.77	-6.24	59.01	74.00	-14.99	Peak	Vertical
2	2483.5000	40.09	-6.24	46.33	54.00	-7.67	Average	Vertical

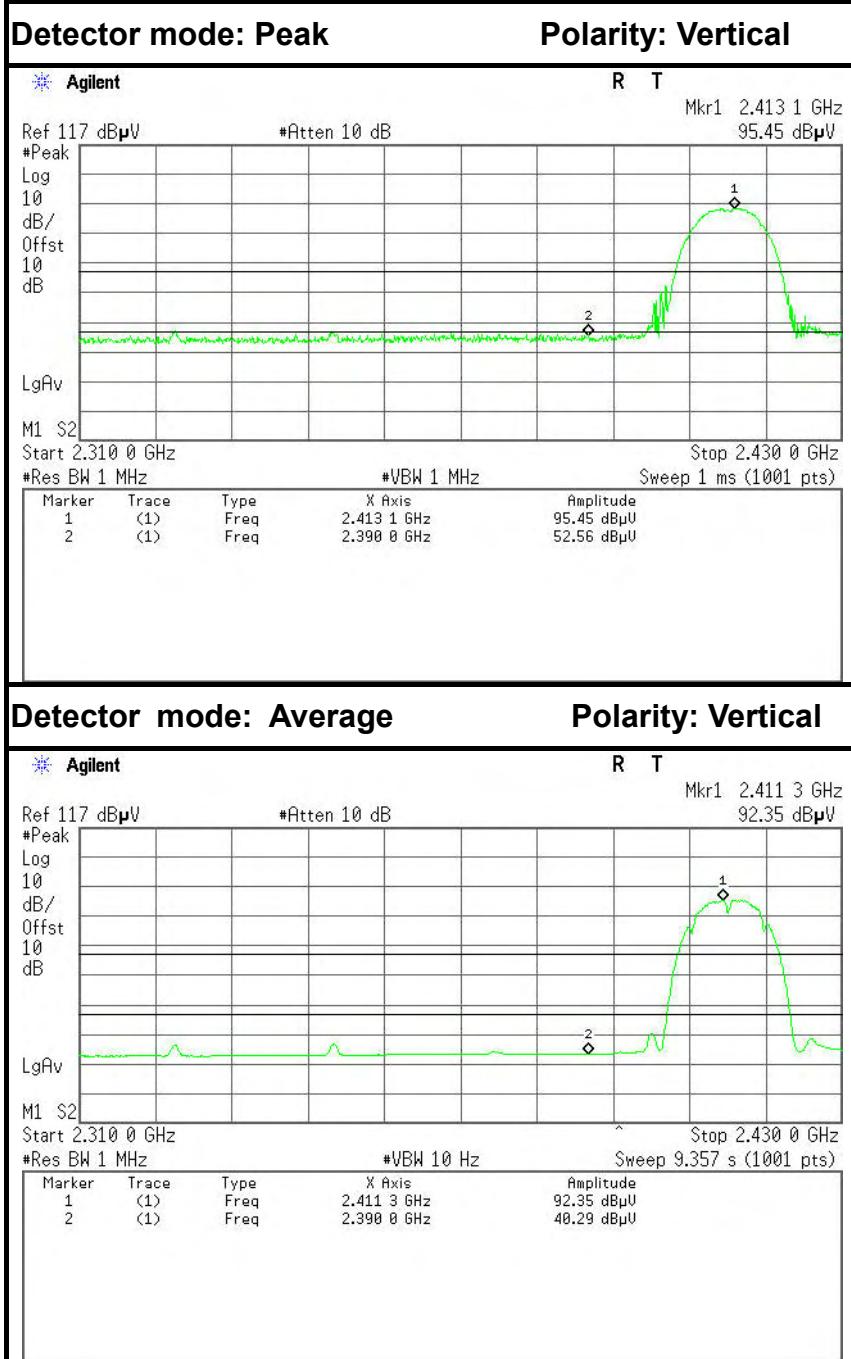


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	47.22	-6.24	53.46	74.00	-20.54	Peak	Horizontal
2	2483.5000	34.30	-6.24	40.54	54.00	-13.46	Average	Horizontal

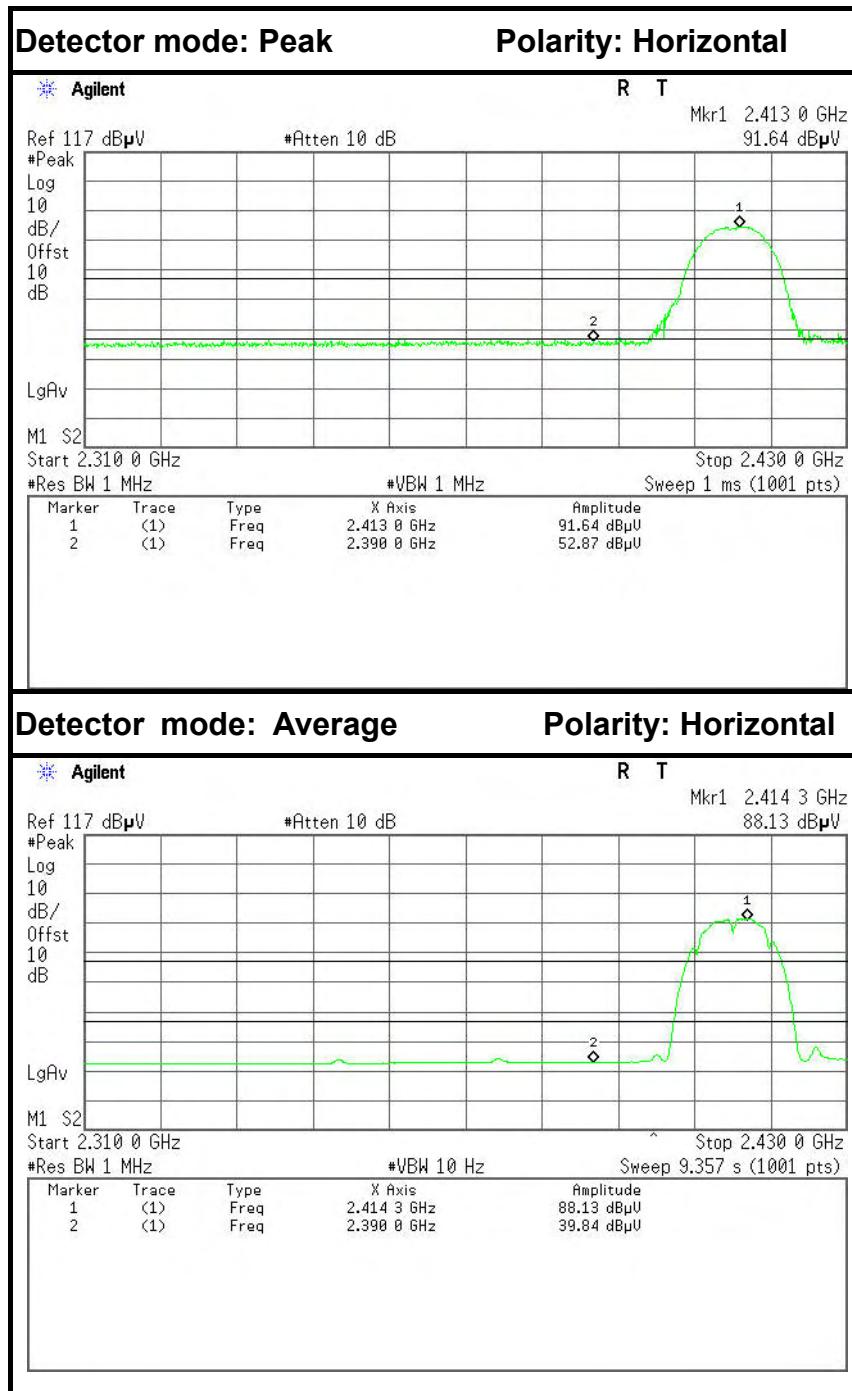


IEEE 802.11b mode (Antenna 1)

Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	45.96	-6.60	52.56	74.00	-21.44	Peak	Vertical
2	2390.0000	33.69	-6.60	40.29	54.00	-13.71	Average	Vertical



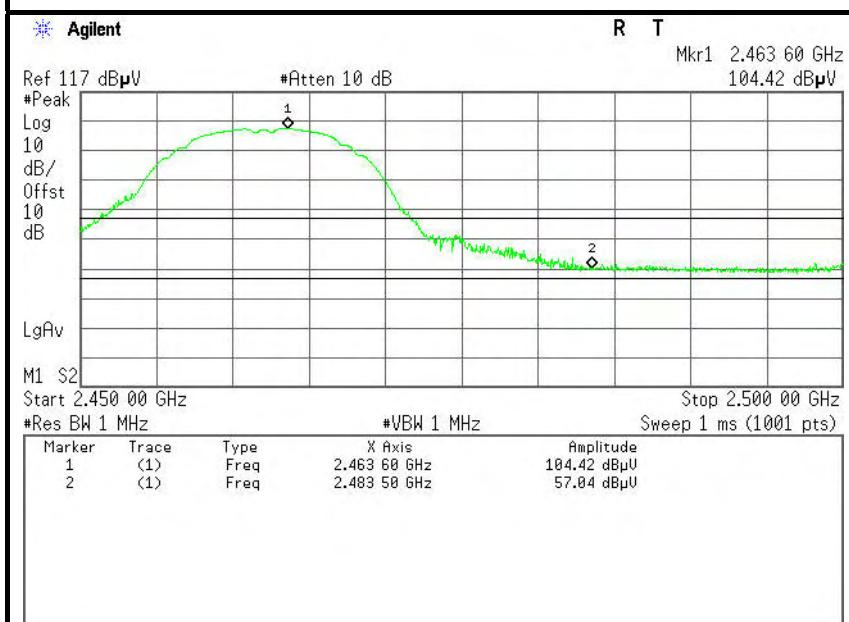
No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	46.27	-6.60	52.87	74.00	-21.13	Peak	Horizontal
2	2390.0000	33.24	-6.60	39.84	54.00	-14.16	Average	Horizontal



Band Edges (CH High)

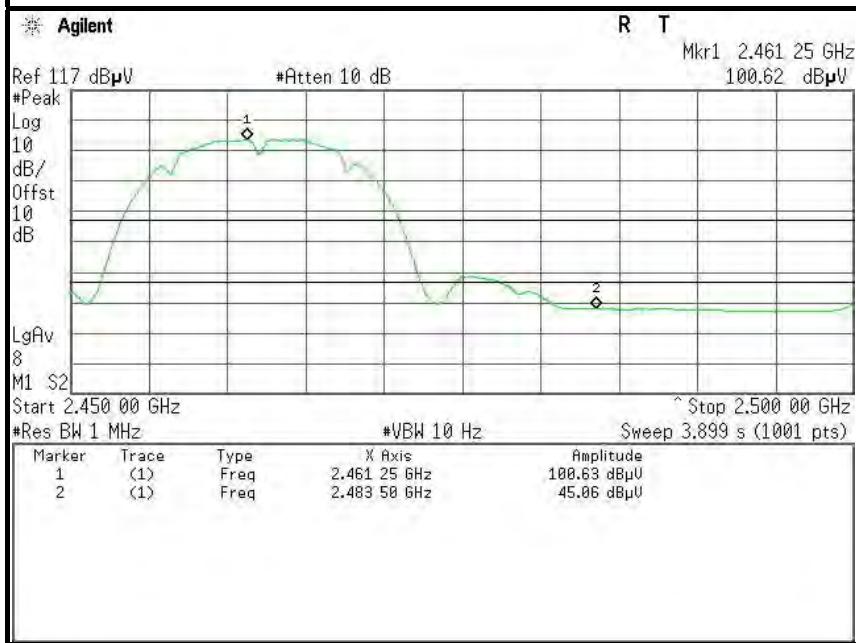
Detector mode: Peak

Polarity: Vertical



Detector mode: Average

Polarity: Vertical

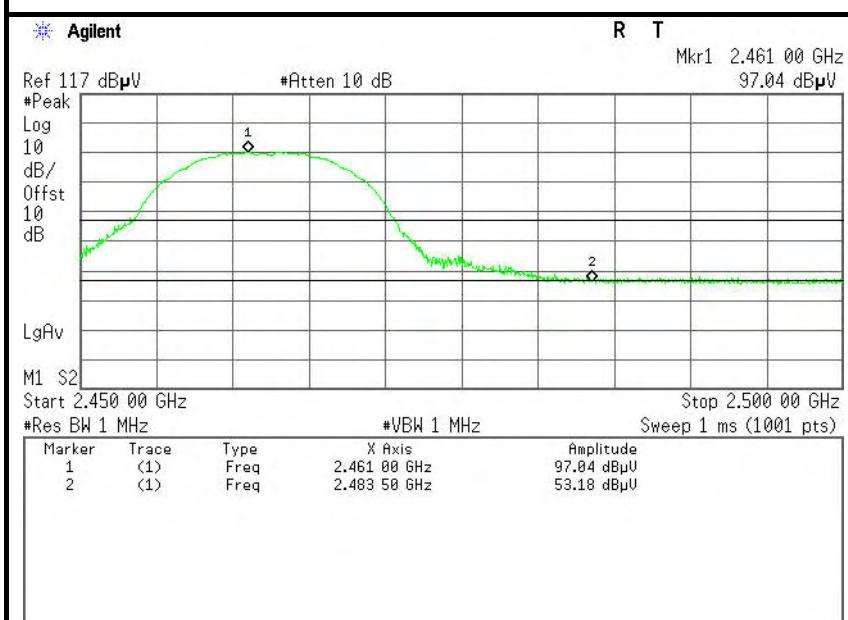


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	50.80	-6.24	57.04	74.00	-16.96	Peak	Vertical
2	2483.5000	38.82	-6.24	45.06	54.00	-8.94	Average	Vertical



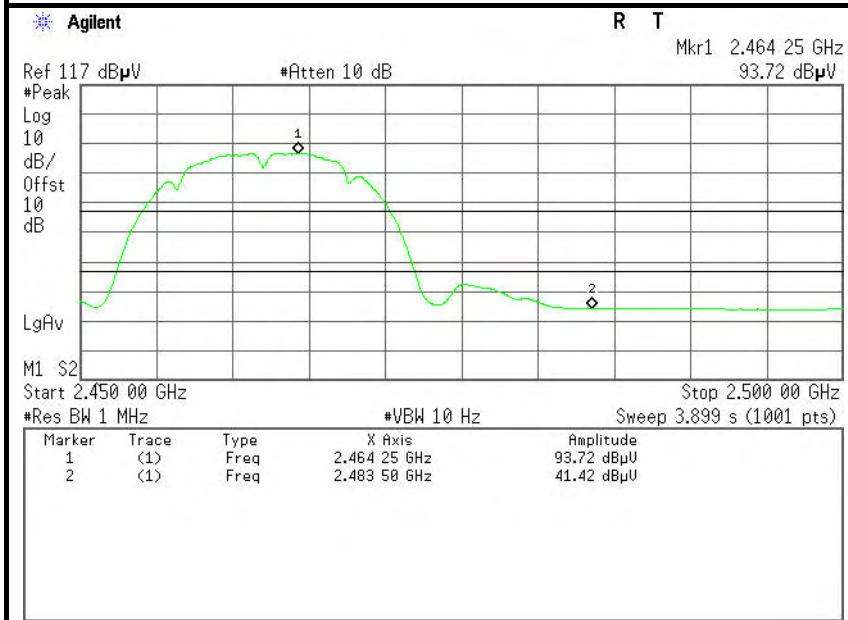
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

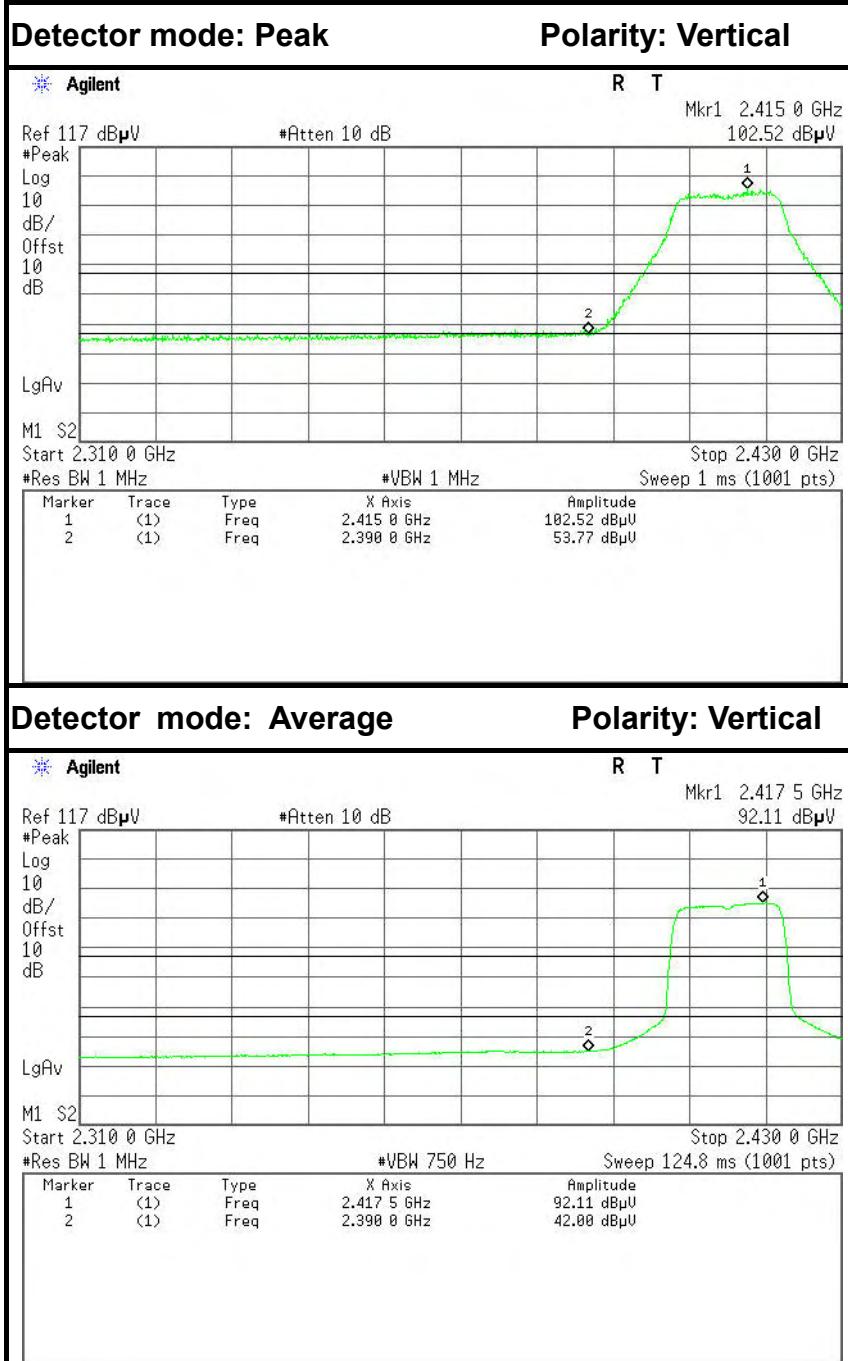


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	46.94	-6.24	53.18	74.00	-20.82	Peak	Horizontal
2	2483.5000	35.18	-6.24	41.42	54.00	-12.58	Average	Horizontal

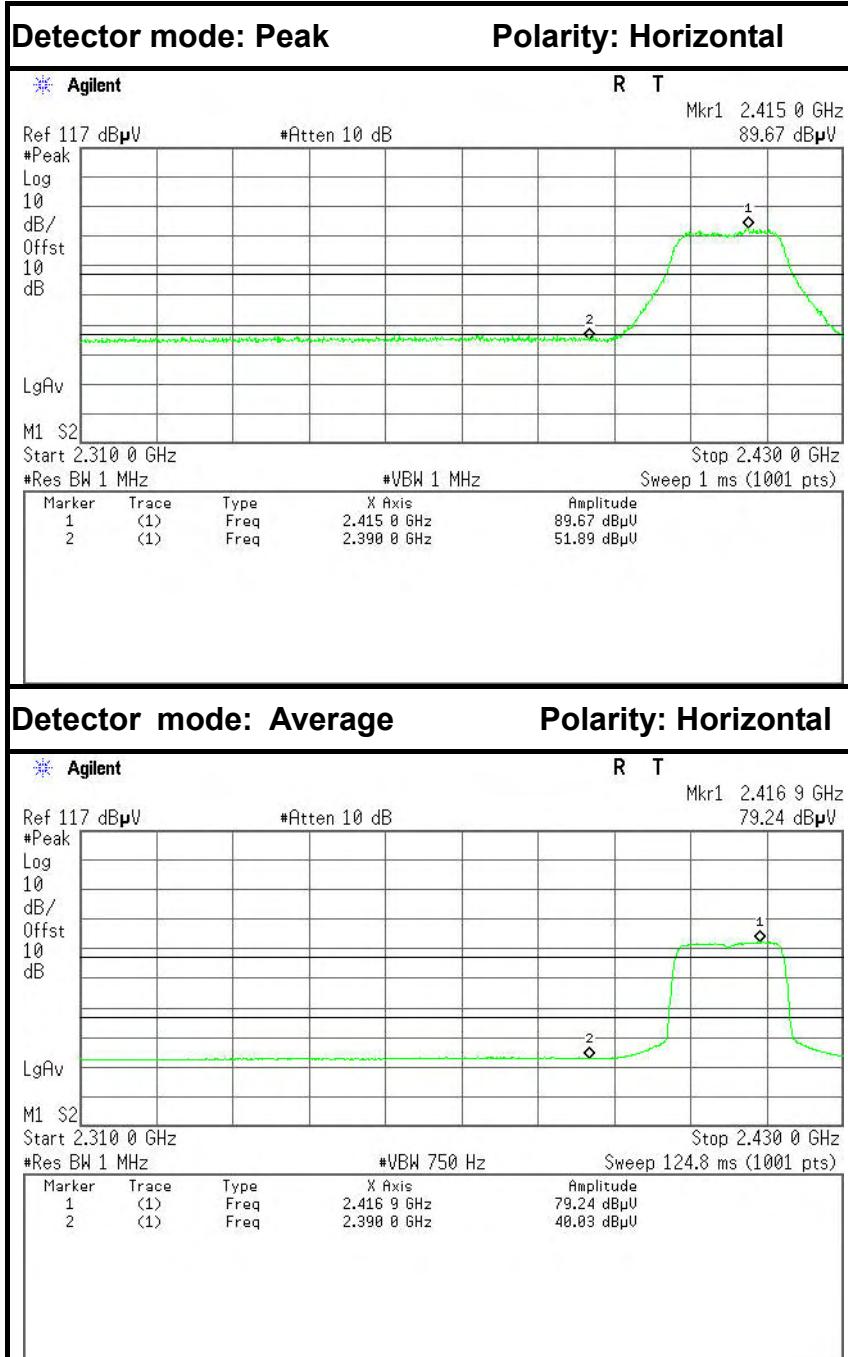


IEEE 802.11g mode (Antenna 0)

Band Edges (CH Low)



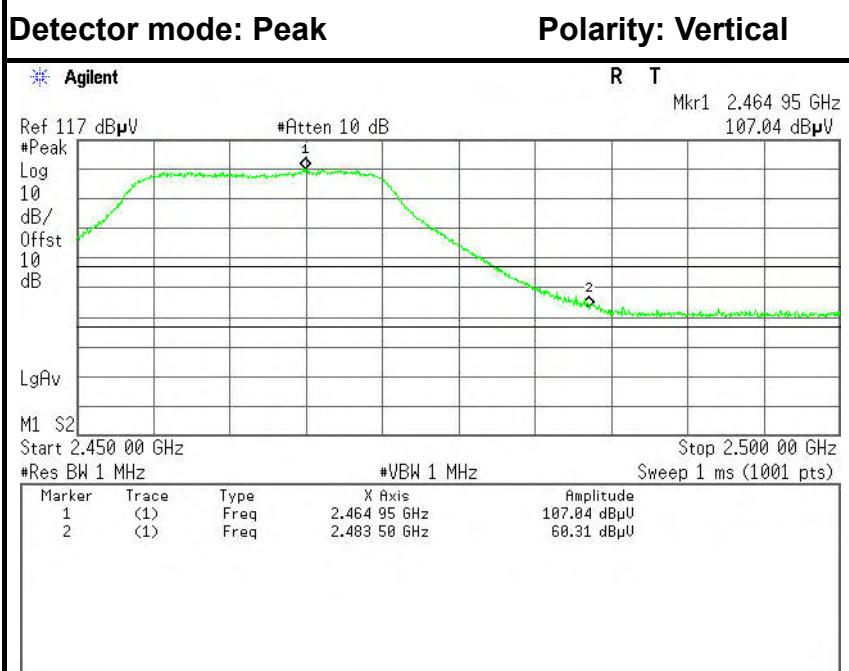
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	47.17	-6.60	53.77	74.00	-20.23	Peak	Vertical
2	2390.0000	35.40	-6.60	42.00	54.00	-12.00	Average	Vertical



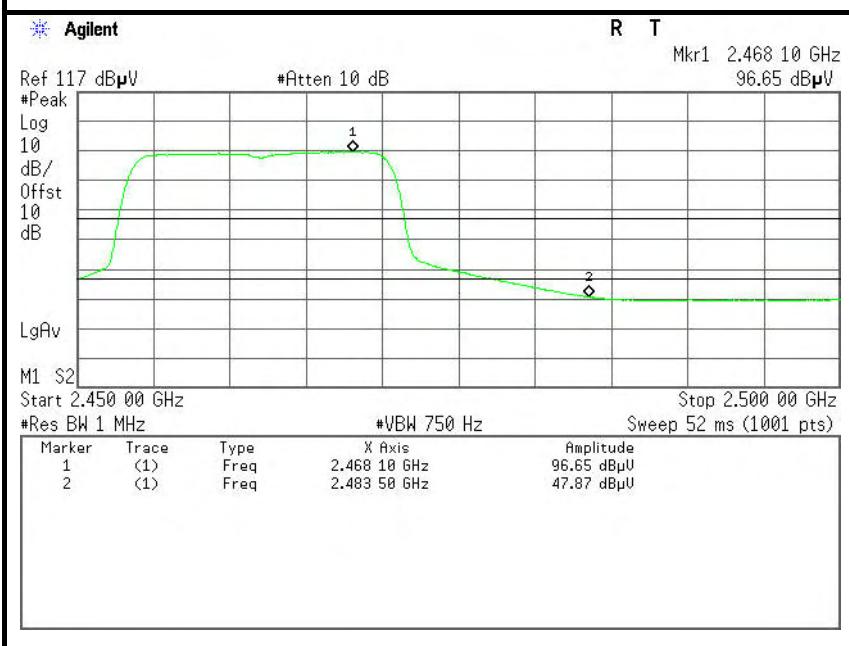
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	45.29	-6.60	51.89	74.00	-22.11	Peak	Horizontal
2	2390.0000	33.43	-6.60	40.03	54.00	-13.97	Average	Horizontal



Band Edges (CH High)



Detector mode: Average Polarity: Vertical

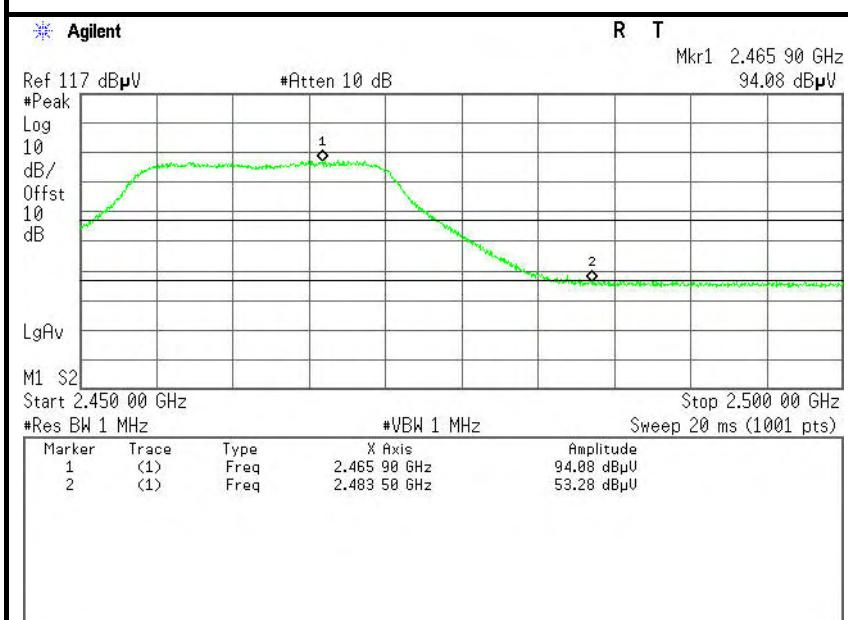


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	54.07	-6.24	60.31	74.00	-13.69	Peak	Vertical
2	2483.5000	41.63	-6.24	47.87	54.00	-6.13	Average	Vertical



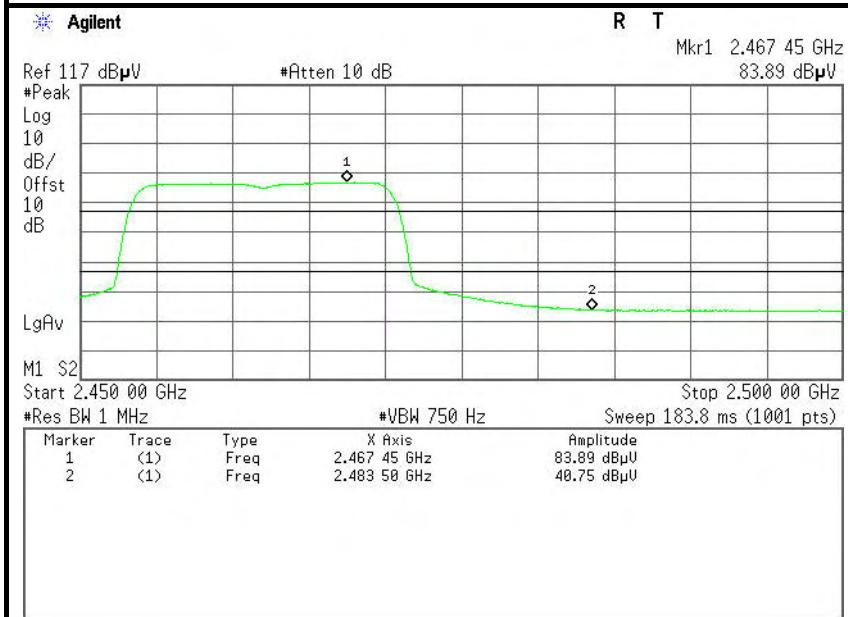
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

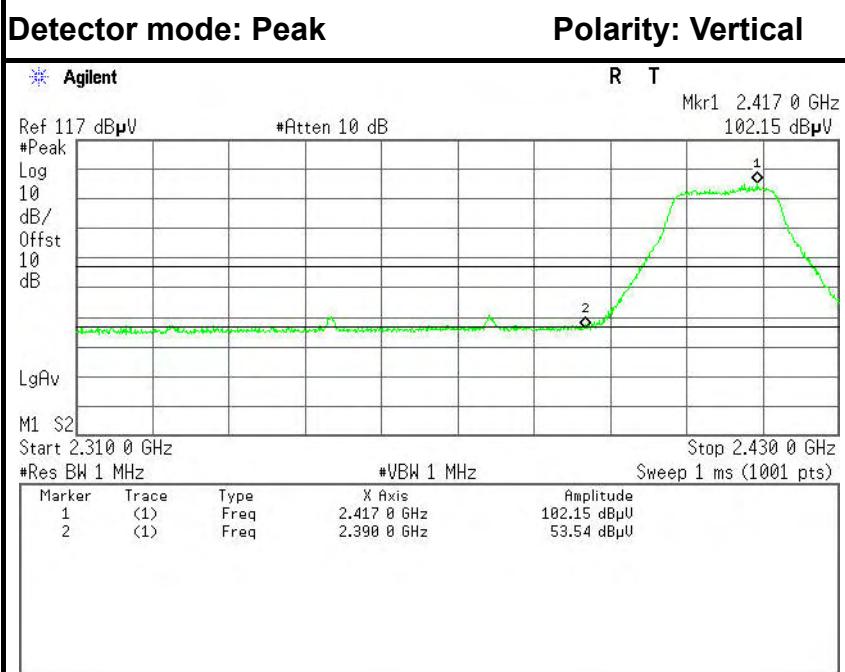


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	47.04	-6.24	53.28	74.00	-20.72	Peak	Horizontal
2	2483.5000	34.51	-6.24	40.75	54.00	-13.25	Average	Horizontal

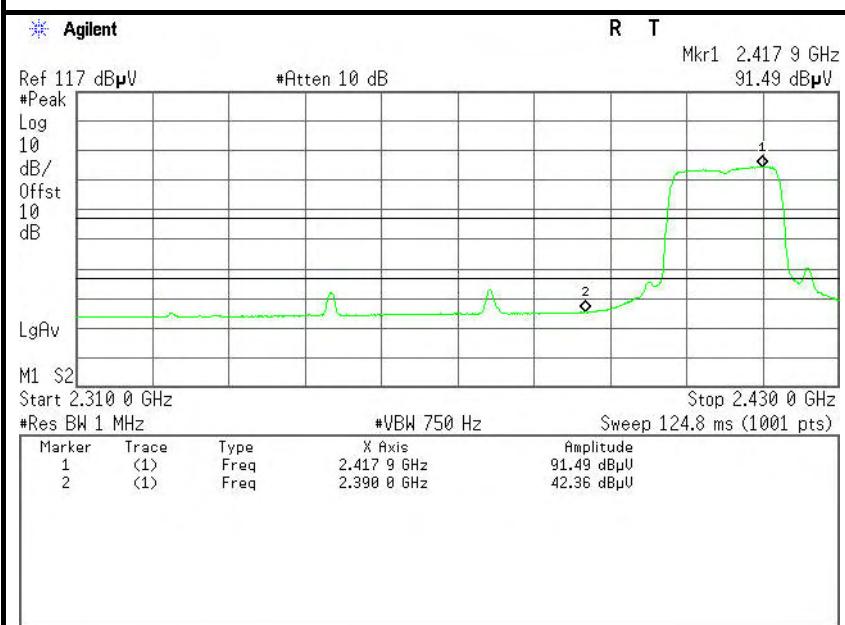


IEEE 802.11g mode (Antenna 1)

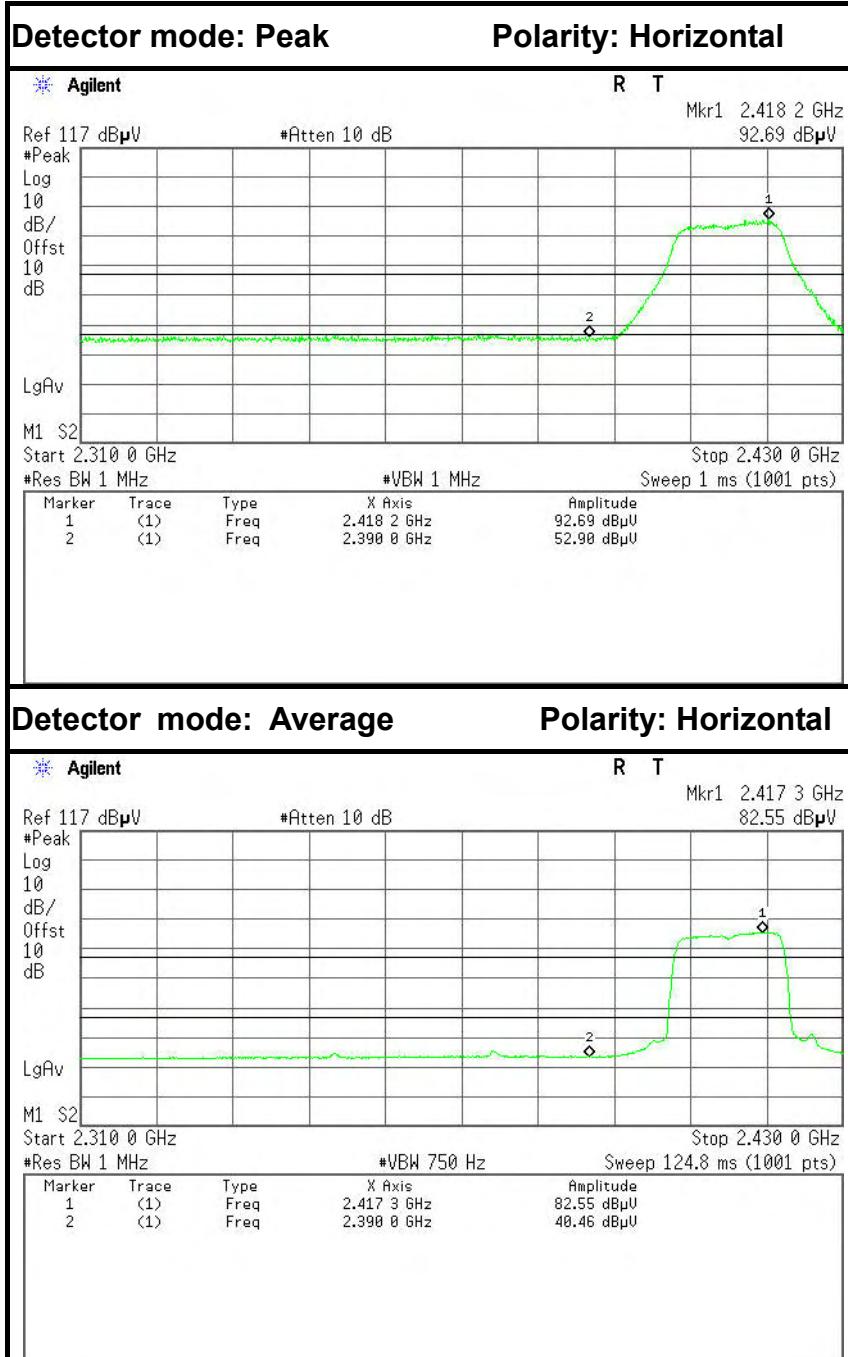
Band Edges (CH Low)



Detector mode: Average Polarity: Vertical



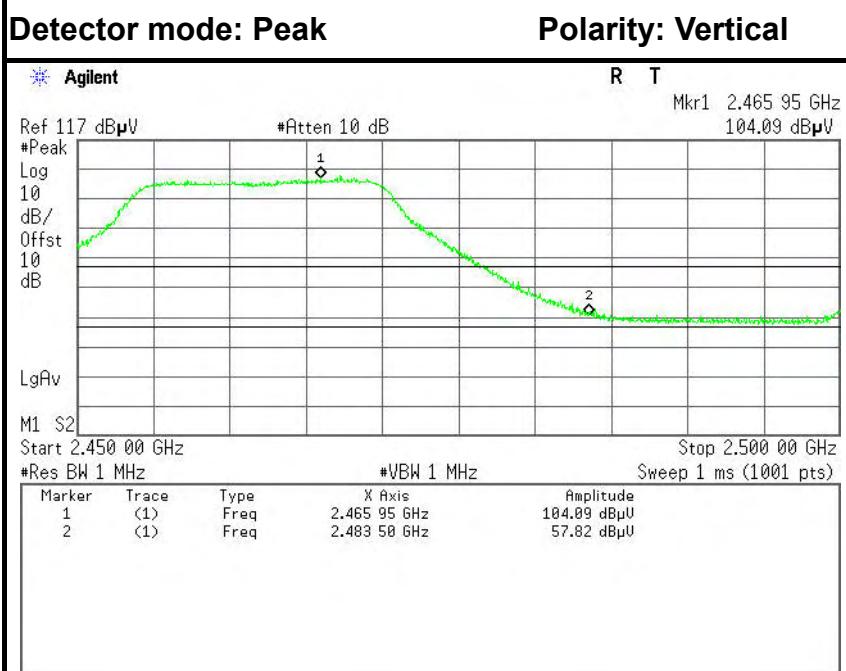
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	46.94	-6.60	53.54	74.00	-20.46	Peak	Vertical
2	2390.0000	35.76	-6.60	42.36	54.00	-11.64	Average	Vertical



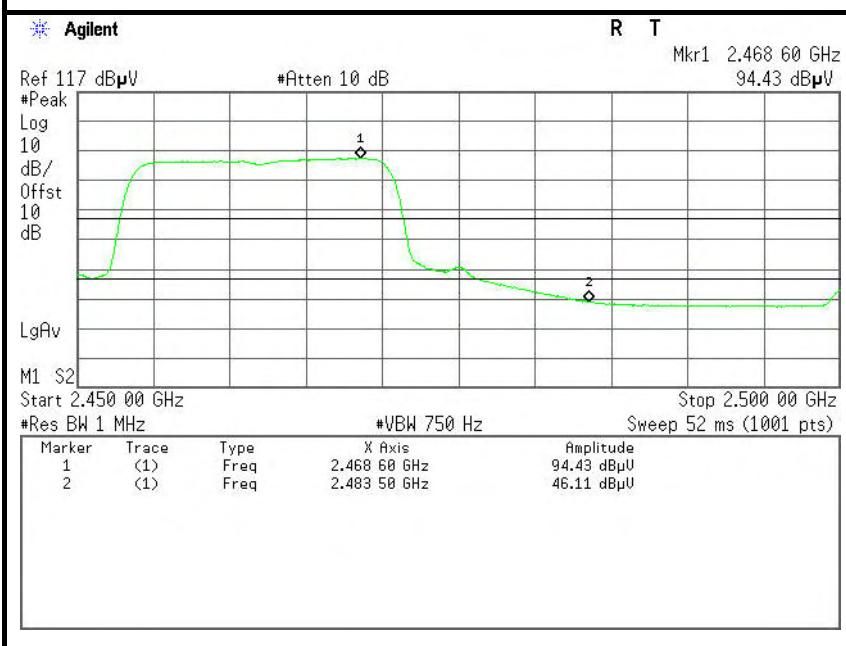
No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	46.36	-6.60	52.96	74.00	-21.04	Peak	Horizontal
2	2390.0000	33.86	-6.60	40.46	54.00	-13.54	Average	Horizontal



Band Edges (CH High)



Detector mode: Average Polarity: Vertical

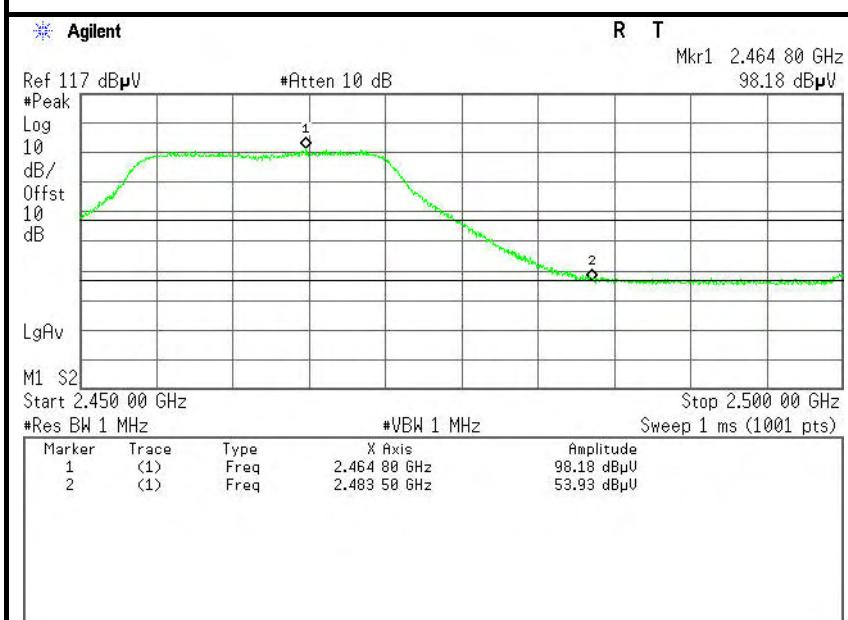


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	51.58	-6.24	57.82	74.00	-16.18	Peak	Vertical
2	2483.5000	39.87	-6.24	46.11	54.00	-7.89	Average	Vertical



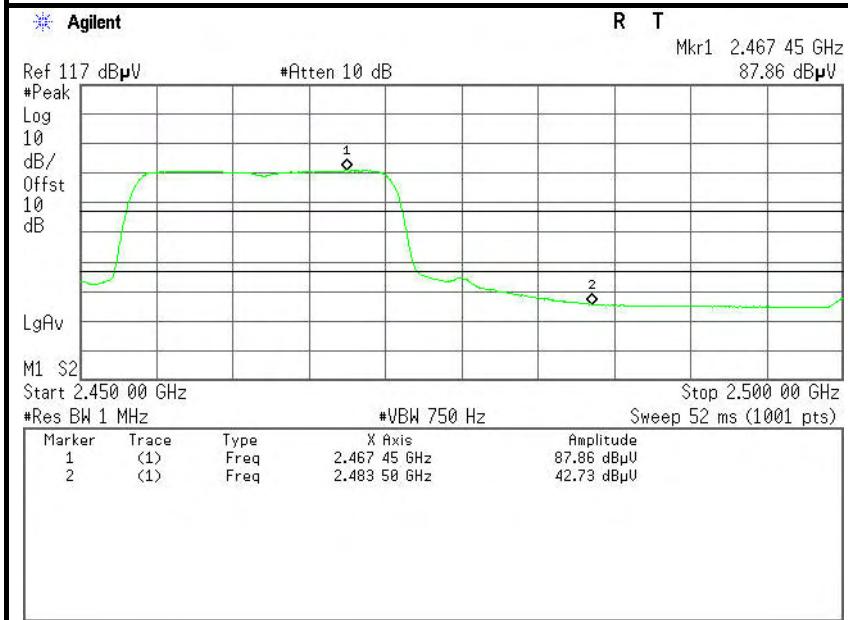
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

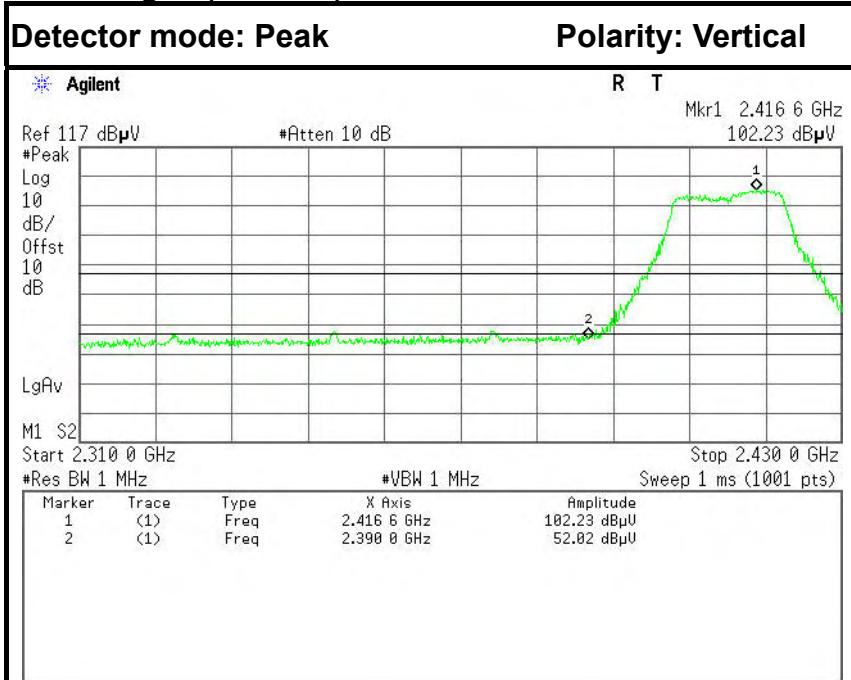


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	47.69	-6.24	53.93	74.00	-20.07	Peak	Horizontal
2	2483.5000	36.49	-6.24	42.73	54.00	-11.27	Average	Horizontal

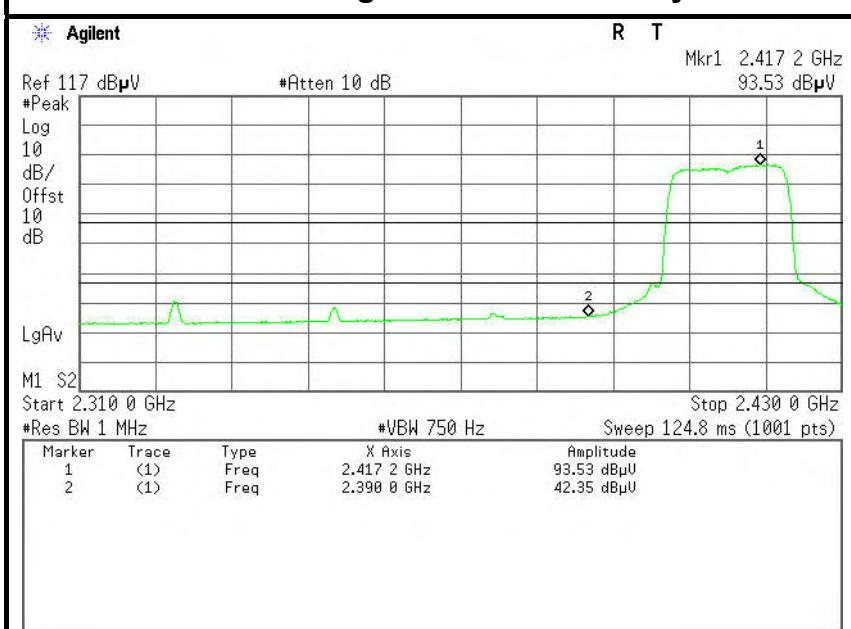


IEEE 802.11n HT20 MHz mode (Combine with Antenna 0 and Antenna 1)

Band Edges (CH Low)



Detector mode: Average Polarity: Vertical

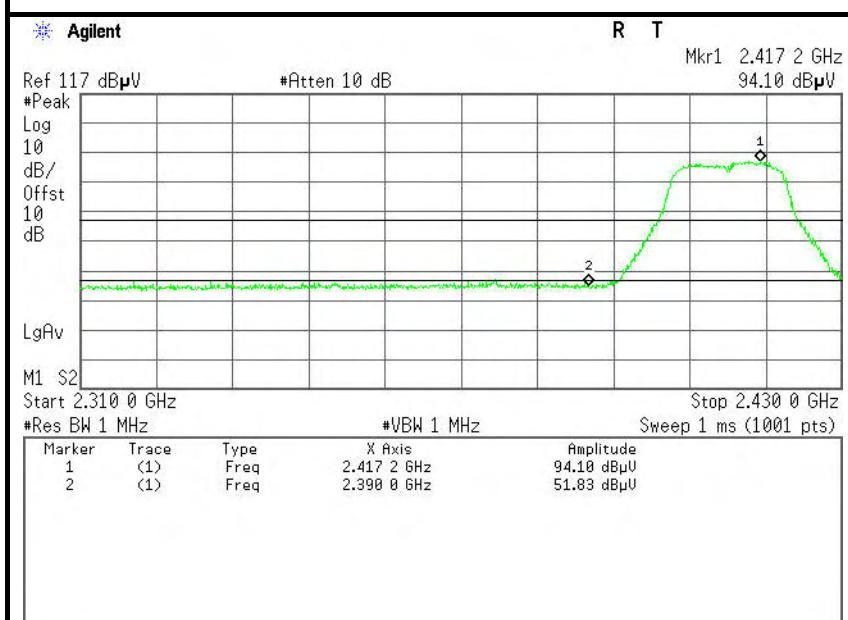


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	45.42	-6.60	52.02	74.00	-21.98	Peak	Vertical
2	2390.0000	35.75	-6.60	42.35	54.00	-11.65	Average	Vertical



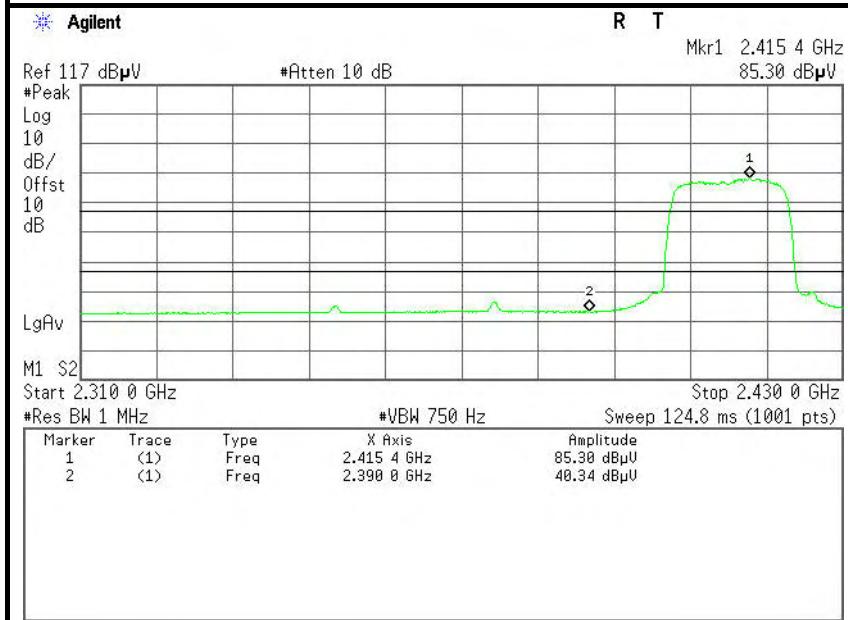
Detector mode: Peak

Polarity: Horizontal

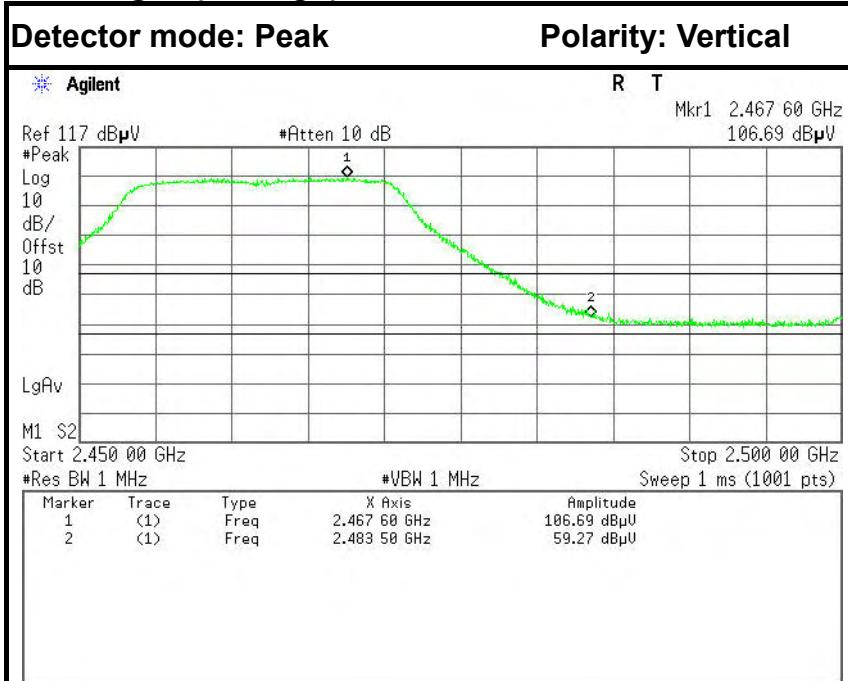
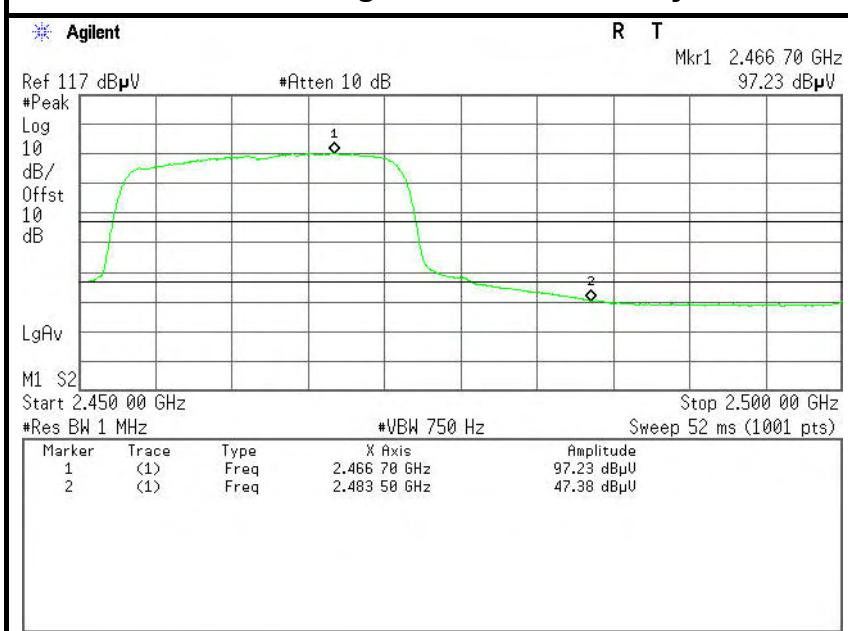


Detector mode: Average

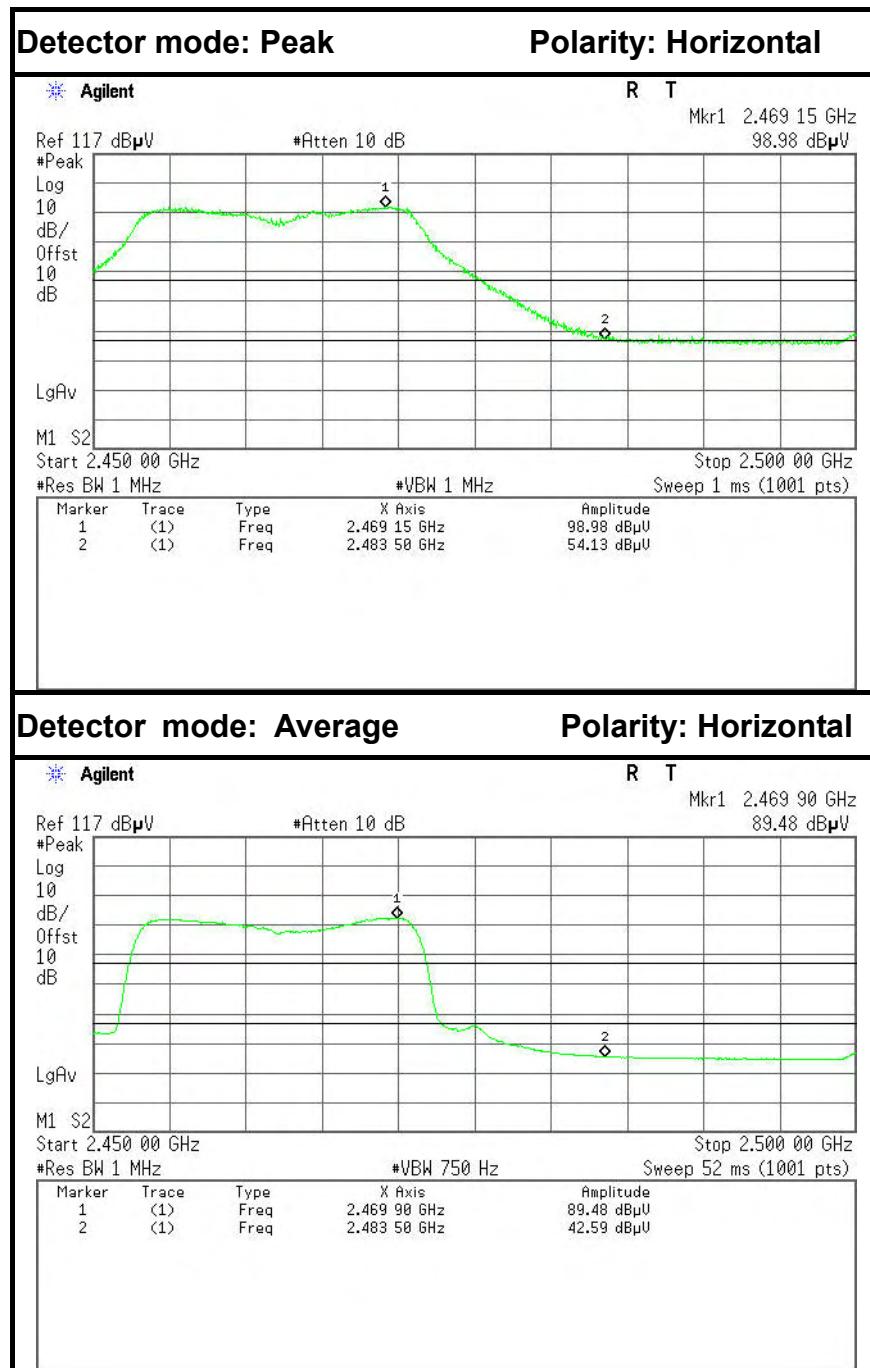
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	45.23	-6.60	51.83	74.00	-22.17	Peak	Horizontal
2	2390.0000	33.74	-6.60	40.34	54.00	-13.66	Average	Horizontal

**Band Edges (CH High)****Detector mode: Average** **Polarity: Vertical**

No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	53.03	-6.24	59.27	74.00	-14.73	Peak	Vertical
2	2483.5000	41.14	-6.24	47.38	54.00	-6.62	Average	Vertical

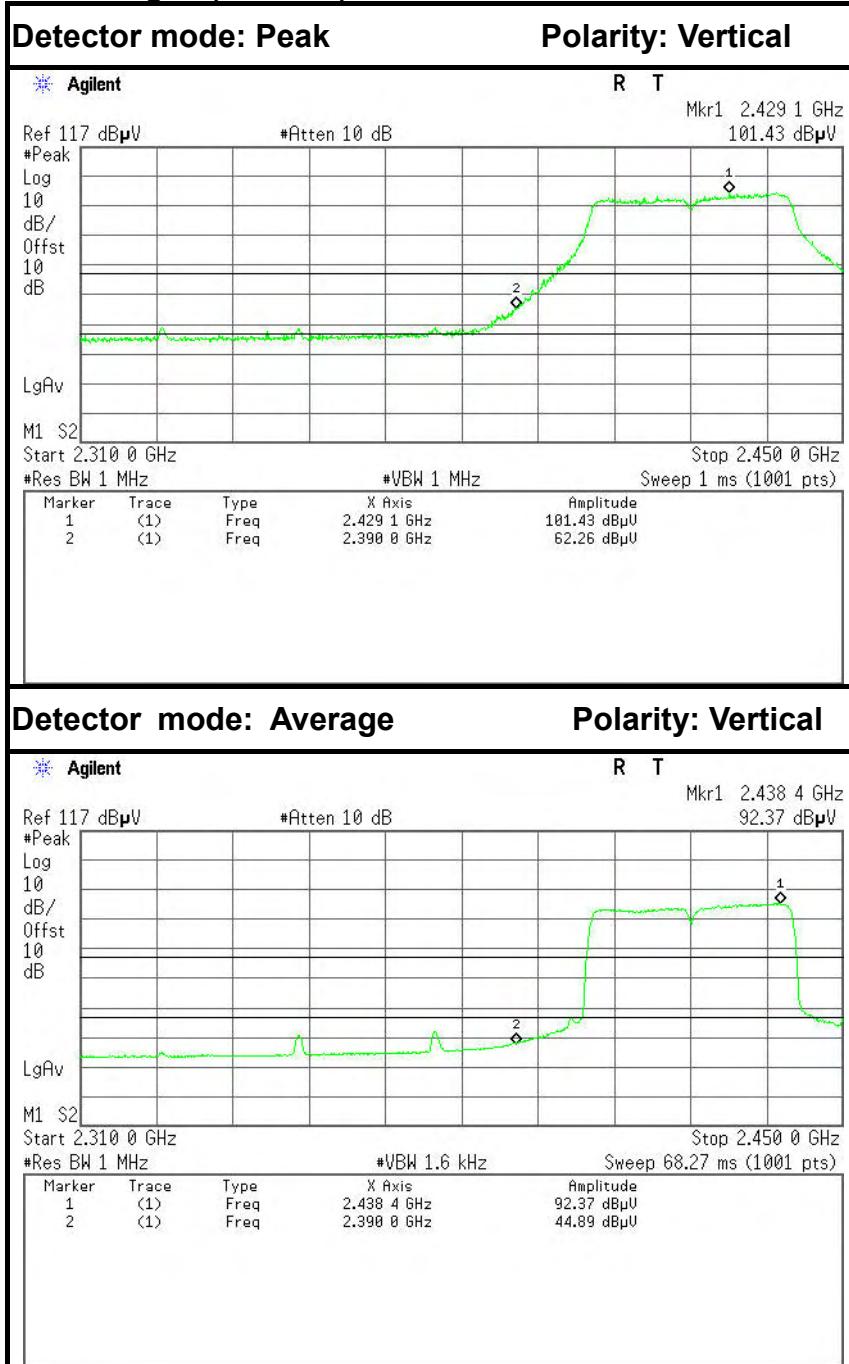


No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	47.89	-6.24	54.13	74.00	-19.87	Peak	Horizontal
2	2483.5000	36.35	-6.24	42.59	54.00	-11.41	Average	Horizontal

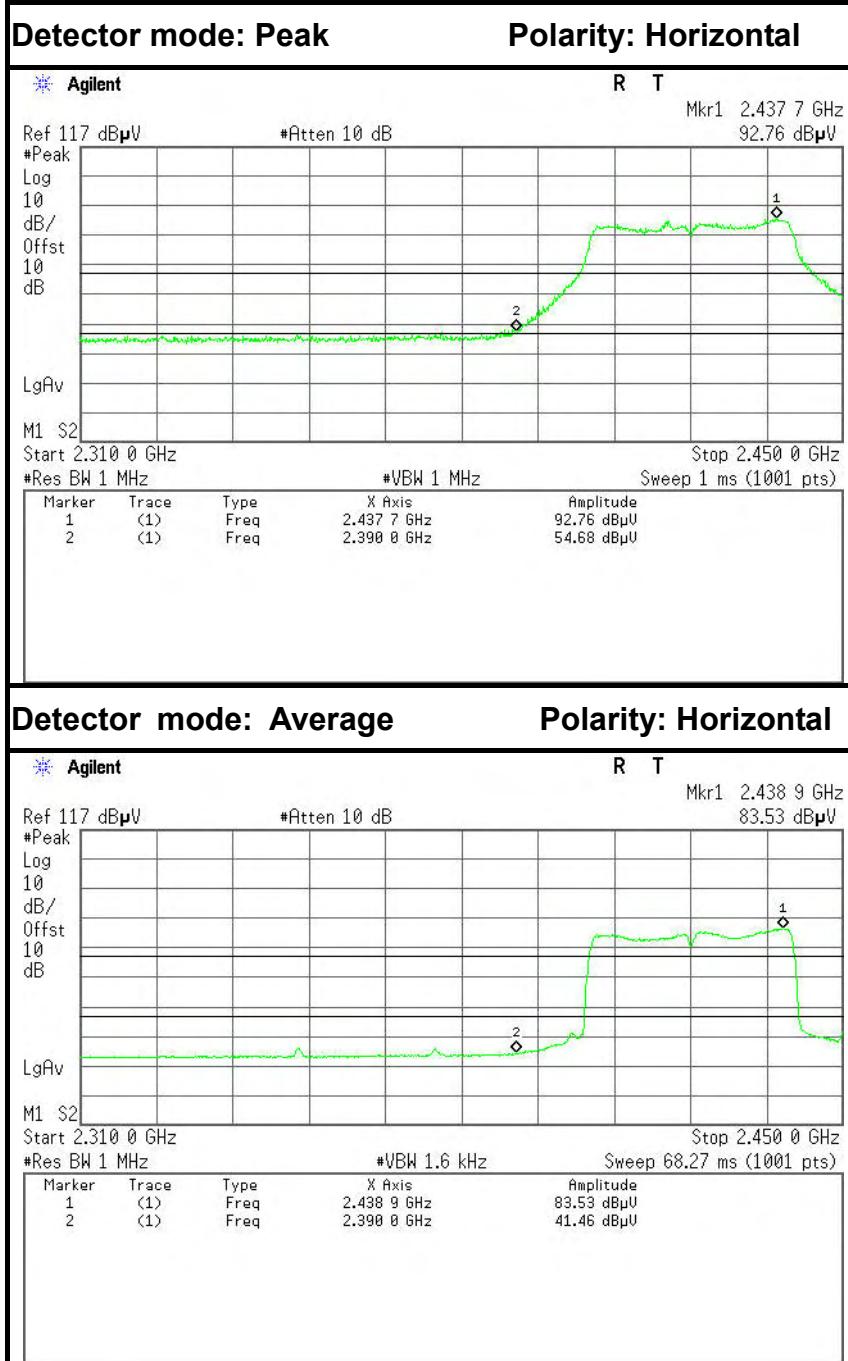


IEEE 802.11n HT40 MHz mode (Combine with Antenna 0 and Antenna 1)

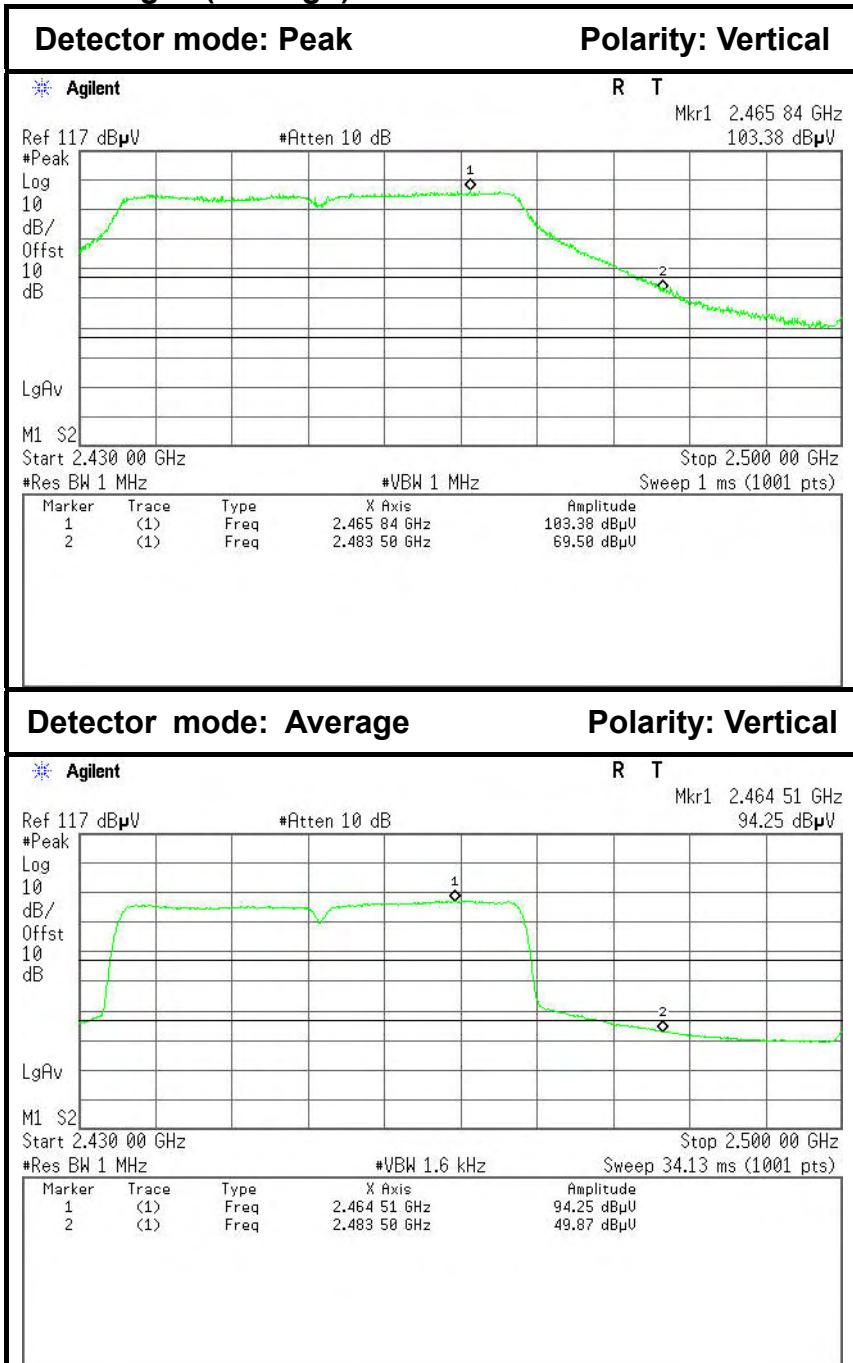
Band Edges (CH Low)



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	55.66	-6.60	62.26	74.00	-11.74	Peak	Vertical
2	2390.0000	38.29	-6.60	44.89	54.00	-9.11	Average	Vertical



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2390.0000	48.08	-6.60	54.68	74.00	-19.32	Peak	Horizontal
2	2390.0000	34.86	-6.60	41.46	54.00	-12.54	Average	Horizontal

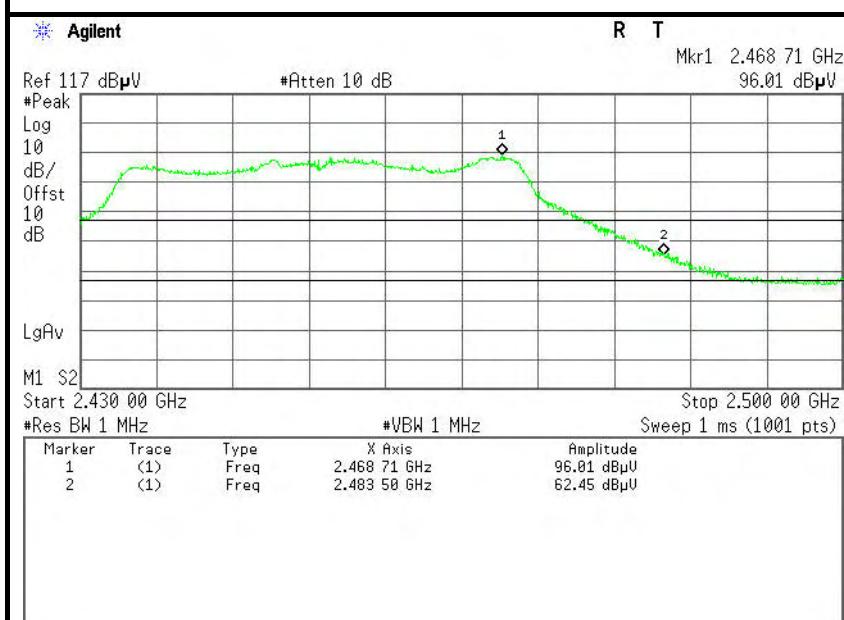
**Band Edges (CH High)**

No.	Frequency (MHz)	Reading (dBuV)	Corrected (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	63.26	-6.24	69.50	74.00	-4.50	Peak	Vertical
2	2483.5000	43.63	-6.24	49.87	54.00	-4.13	Average	Vertical



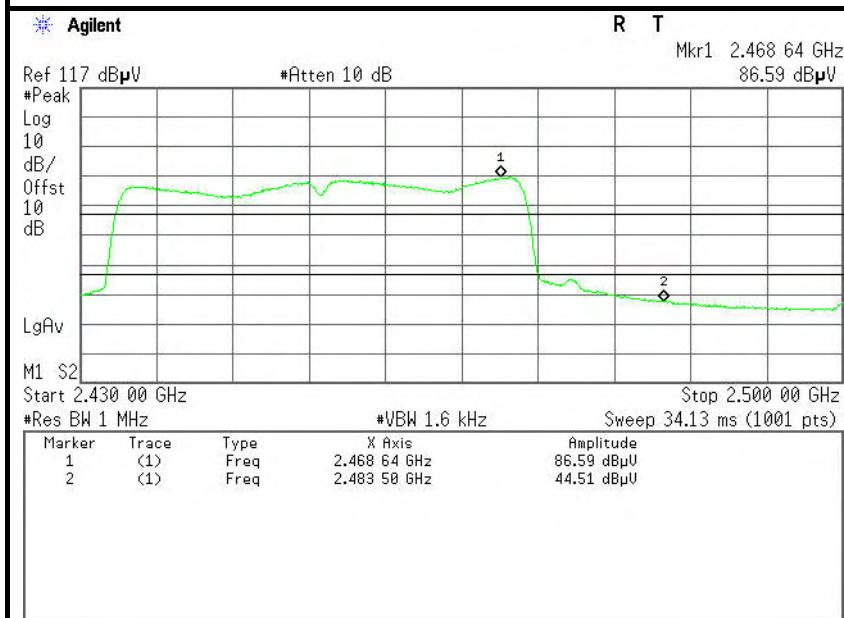
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB μ V)	Corrected (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector	Antenna Pole
1	2483.5000	56.21	-6.24	62.45	74.00	-11.55	Peak	Horizontal
2	2483.5000	38.27	-6.24	44.51	54.00	-9.49	Average	Horizontal



7.7. PEAK POWER SPECTRAL DENSITY MEASUREMENT

7.7.1. LIMITS

According to §15.247(e), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

7.7.2. TEST INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2016	02/20/2017

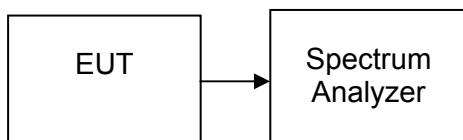
7.7.3. TEST PROCEDURES (please refer to measurement standard)

§15.247(e) specifies a conducted power spectral density (PSD) limit of 8 dBm in any 3 kHz band segment within the fundamental EBW during any time interval of continuous transmission. The same method as used to determine the conducted output power shall be used to determine the power spectral density (i.e., if peak-detected fundamental power was measured then use the peak PSD procedure and if average fundamental power was measured then use the average PSD procedure).

10.2 Method PKPSD (peak PSD)

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS bandwidth.
3. Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.7.4. TEST SETUP





7.7.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b (Antenna 0)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-12.876	8	PASS
Mid	2437	-12.327		PASS
High	2462	-9.921		PASS

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-12.380	8	PASS
Mid	2437	-10.975		PASS
High	2462	-8.619		PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-16.611	8	PASS
Mid	2437	-15.439		PASS
High	2462	-14.328		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-17.051	8	PASS
Mid	2437	-13.869		PASS
High	2462	-13.996		PASS

**Test mode: IEEE 802.11n HT20 MHz (Combine with Antenna 0 and Antenna 1)**

Channel	Frequency (MHz)	PPSD (dBm)			Limit (dBm)	Test Result
		Antenna 0	Antenna 1	Total		
Low	2412	-18.916	-16.858	-14.756	8	PASS
Mid	2437	-15.808	-16.268	-13.022		PASS
High	2462	-15.191	-13.602	-11.314		PASS

Test mode: IEEE 802.11n HT40 MHz (Combine with Antenna 0 and Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)			Limit (dBm)	Test Result
		Antenna 0	Antenna 1	Total		
Low	2422	-20.975	-20.296	-17.612	8	PASS
Mid	2437	-19.766	-18.382	-16.009		PASS
High	2452	-19.659	-17.351	-15.343		PASS



Test Plot

IEEE 802.11b mode (Antenna 0)

PPSD (CH Low)



PPSD (CH Mid)



**PPSD (CH High)****IEEE 802.11b mode (Antenna 1)****PPSD (CH Low)**

**PPSD (CH Mid)****PPSD (CH High)**



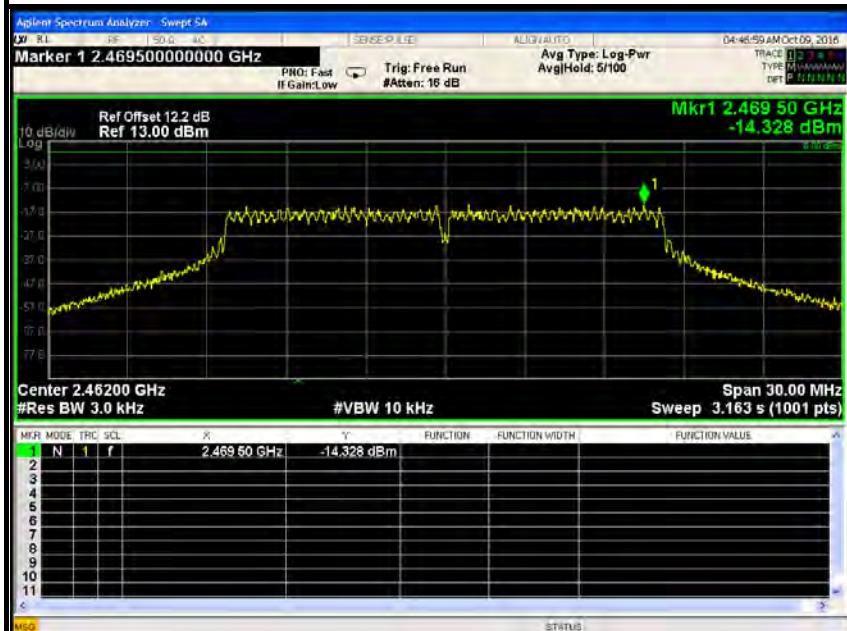
IEEE 802.11g mode (Antenna 0)

PPSD (CH Low)



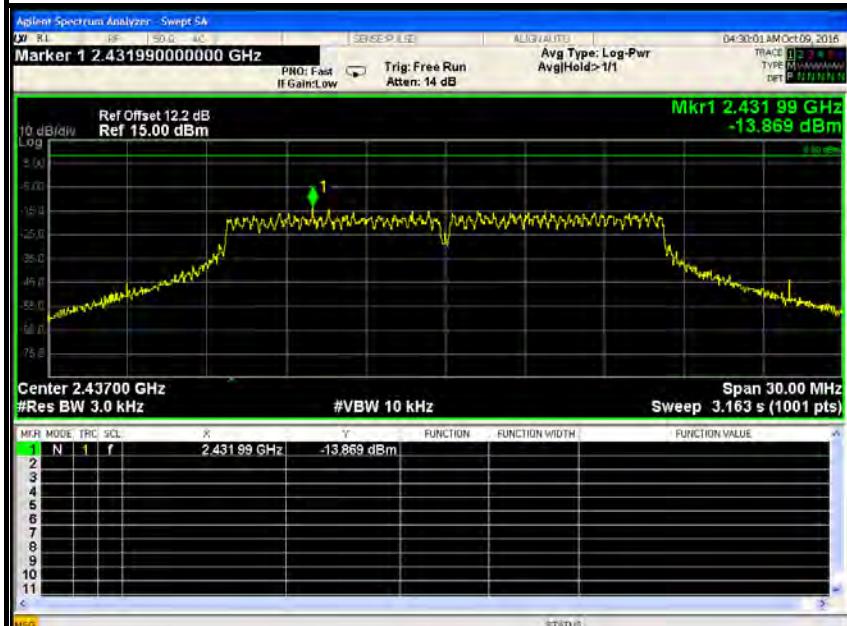
PPSD (CH Mid)



**PPSD (CH High)****IEEE 802.11g mode (Antenna 1)****PPSD (CH Low)**



PPSD (CH Mid)



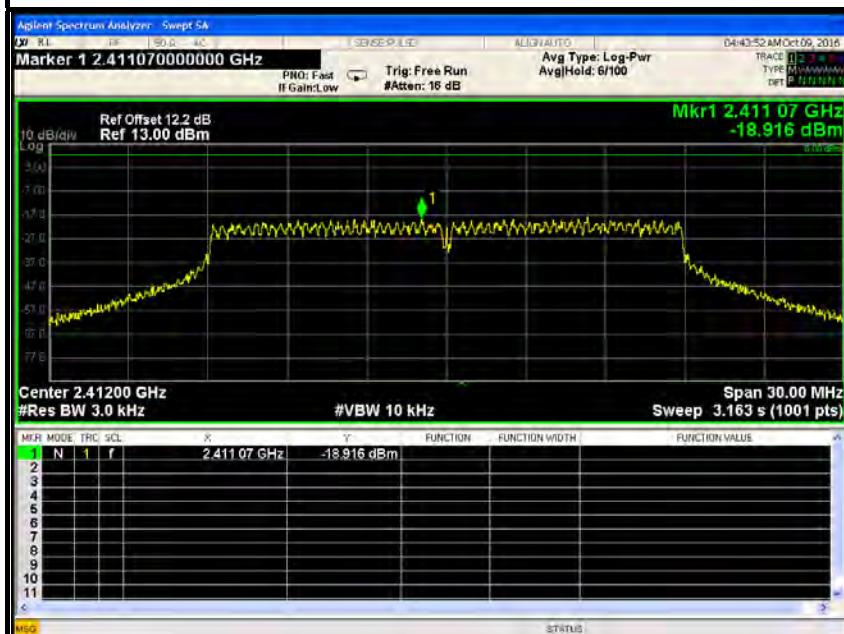
PPSD (CH High)



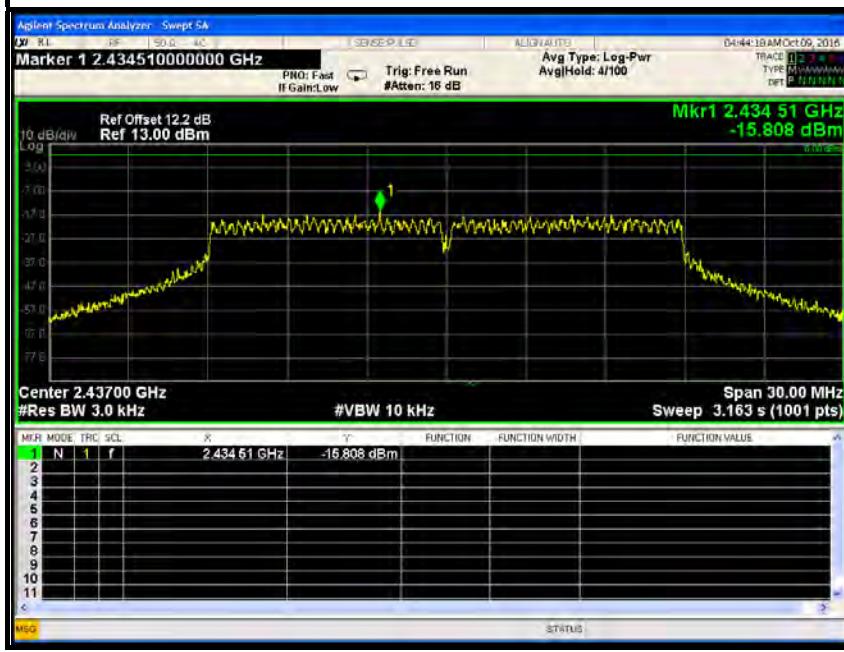


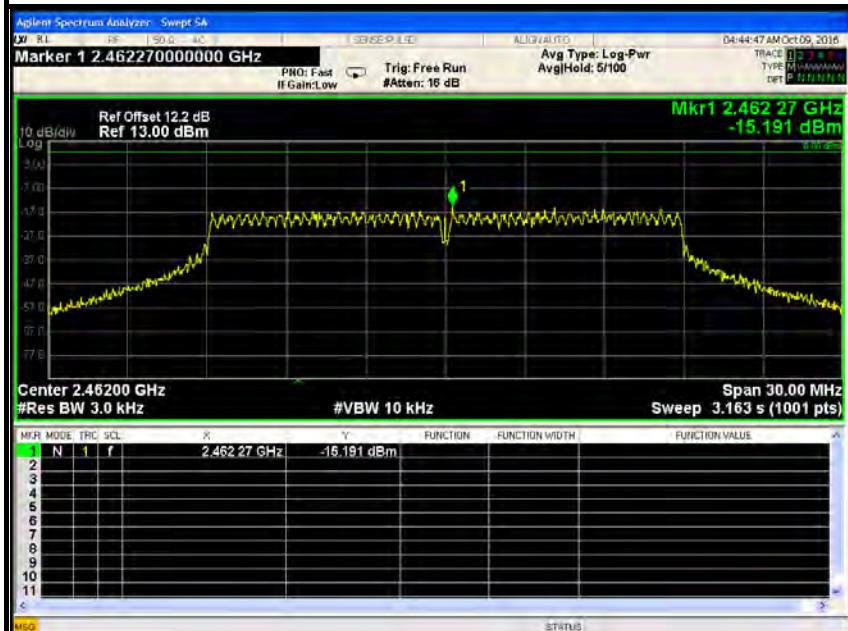
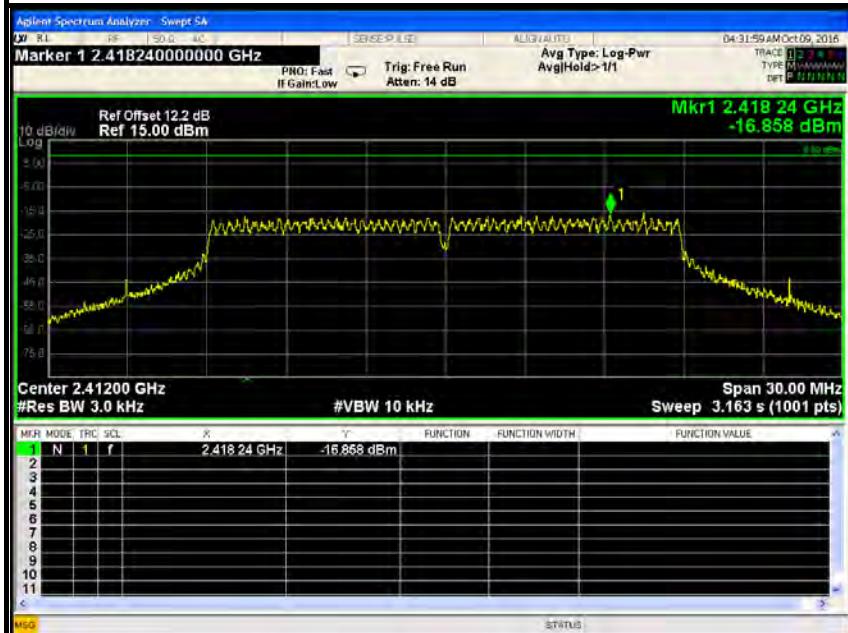
IEEE 802.11n HT20 MHz mode (Antenna 0)

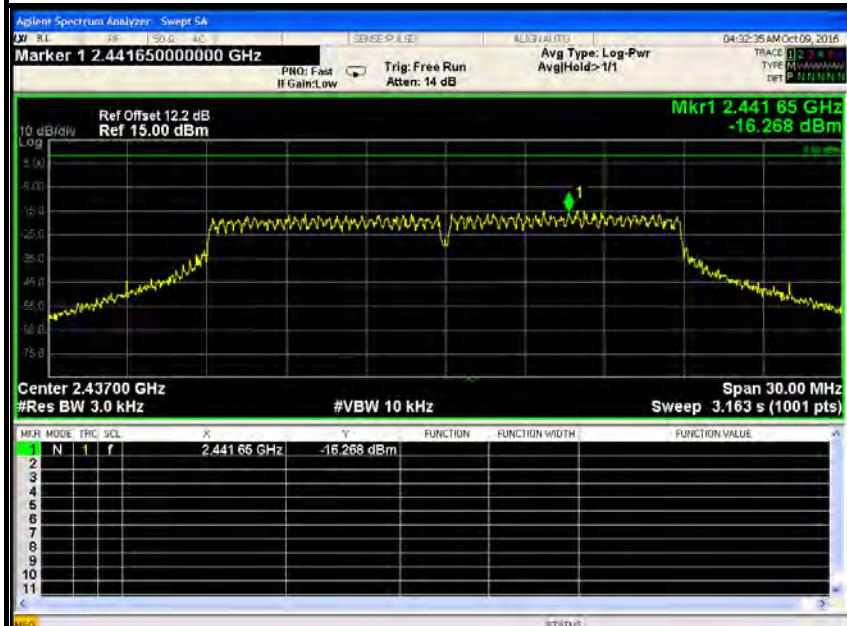
PPSD (CH Low)



PPSD (CH Mid)



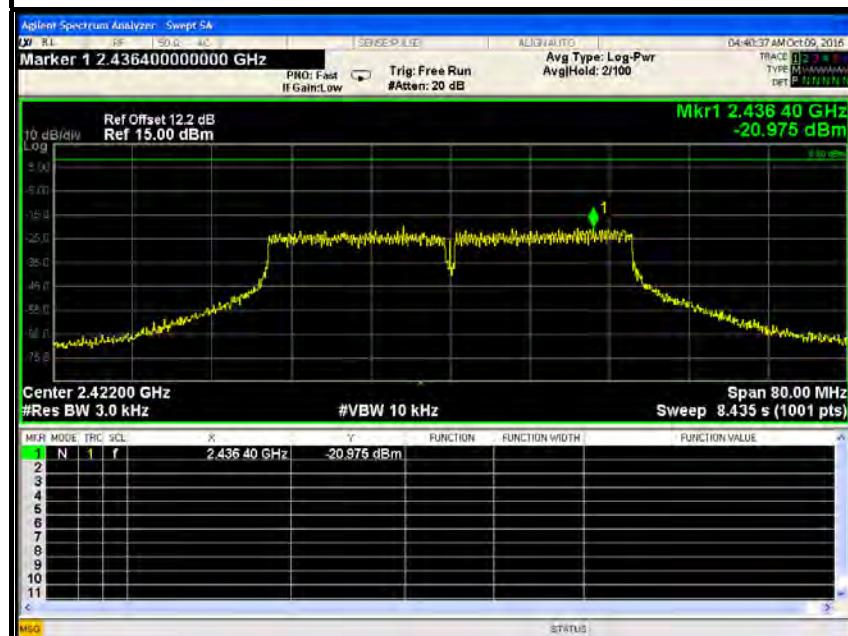
**PPSD (CH High)****IEEE 802.11n HT20 MHz mode (Antenna 1)****PPSD (CH Low)**

**PPSD (CH Mid)****PPSD (CH High)**

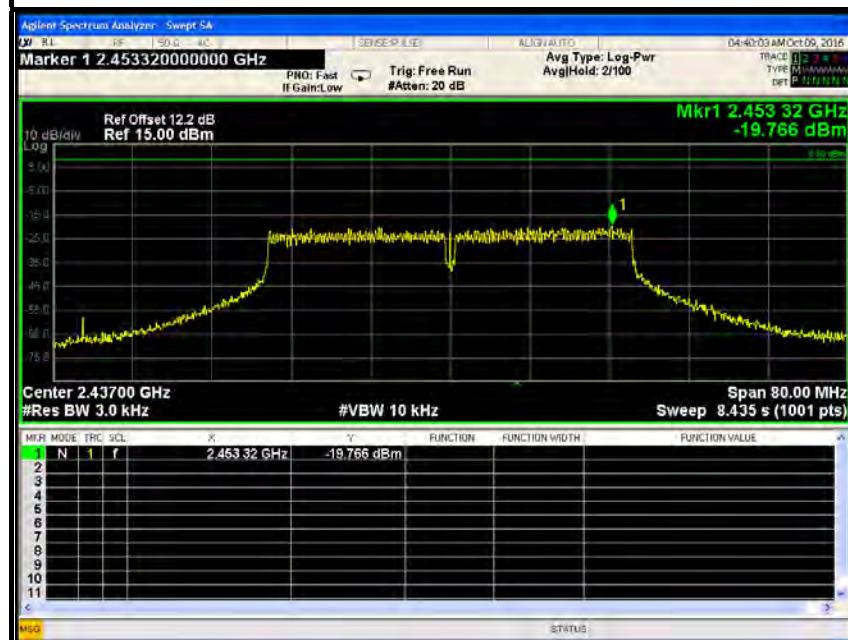


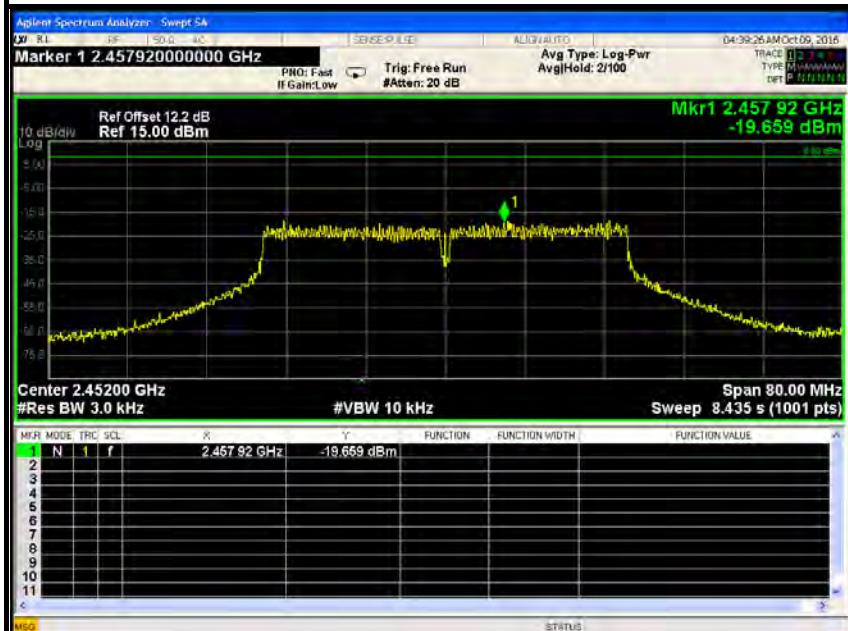
IEEE 802.11n HT40 MHz mode (Antenna 0)

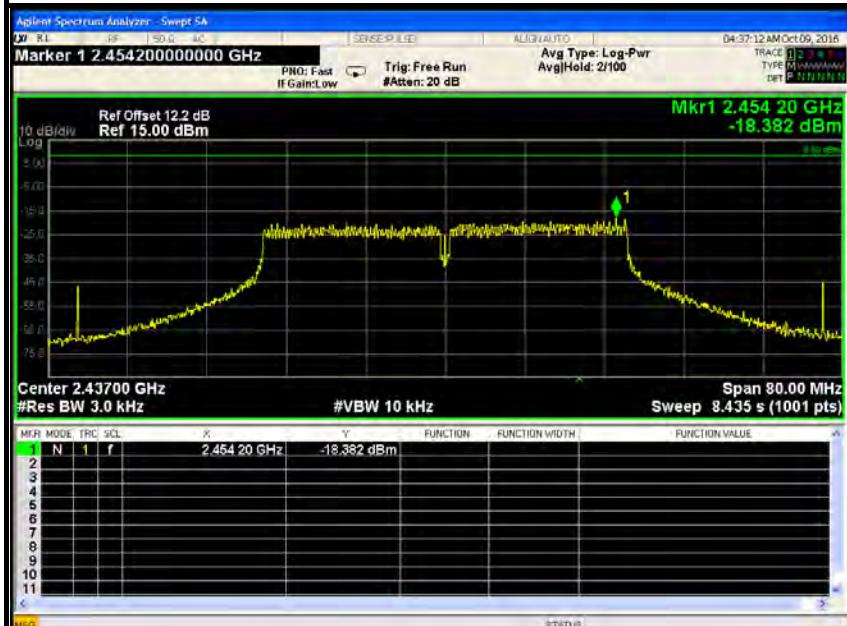
PPSD (CH Low)



PPSD (CH Mid)



**PPSD (CH High)****IEEE 802.11n HT40 MHz mode (Antenna 1)****PPSD (CH Low)**

**PPSD (CH Mid)****PPSD (CH High)**