



Test Mode: TX / IEEE 802.11g (CH Mid)

Tested by: Saber Huang

Ambient temperature: 24°C

Relative humidity: 52% RH

Date: July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3214.000	42.78	-1.00	41.78	74.00	-32.22	V	Peak
4069.000	40.32	1.83	42.15	74.00	-31.85	V	Peak
4915.000	39.20	4.70	43.90	74.00	-30.10	V	Peak
5473.000	39.80	5.82	45.62	74.00	-28.38	V	Peak
6031.000	40.23	6.13	46.36	74.00	-27.64	V	Peak
7084.000	38.81	7.86	46.67	74.00	-27.33	V	Peak
2539.000	44.98	-2.19	42.79	74.00	-31.21	H	Peak
3817.000	41.04	0.82	41.86	74.00	-32.14	H	Peak
4690.000	40.27	3.97	44.24	74.00	-29.76	H	Peak
4960.000	40.82	4.85	45.67	74.00	-28.33	H	Peak
5320.000	40.17	5.55	45.72	74.00	-28.28	H	Peak
6058.000	39.48	6.17	45.65	74.00	-28.35	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11g (CH High)**Tested by:** Saber Huang**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3205.000	42.73	-1.02	41.71	74.00	-32.29	V	Peak
3520.000	41.73	-0.44	41.29	74.00	-32.71	V	Peak
4186.000	40.70	2.24	42.94	74.00	-31.06	V	Peak
4546.000	39.92	3.50	43.42	74.00	-30.58	V	Peak
4969.000	39.24	4.88	44.12	74.00	-29.88	V	Peak
5536.000	39.34	5.89	45.23	74.00	-28.77	V	Peak
3214.000	43.02	-1.00	42.02	74.00	-31.98	H	Peak
3844.000	39.95	0.93	40.88	74.00	-33.12	H	Peak
4312.000	39.49	2.69	42.18	74.00	-31.82	H	Peak
4969.000	39.54	4.88	44.42	74.00	-29.58	H	Peak
5527.000	39.70	5.88	45.58	74.00	-28.42	H	Peak
5860.000	39.50	6.02	45.52	74.00	-28.48	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Combine with Antenna 0 and Antenna 1****Test Mode:** TX / IEEE 802.11n HT20 MHz (CH Low)**Tested by:** Saber Huang**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2836.000	42.26	-1.66	40.60	74.00	-33.40	V	Peak
3214.000	42.03	-1.00	41.03	74.00	-32.97	V	Peak
4231.000	39.33	2.40	41.73	74.00	-32.27	V	Peak
4519.000	40.24	3.41	43.65	74.00	-30.35	V	Peak
5176.000	38.71	5.29	44.00	74.00	-30.00	V	Peak
5914.000	38.61	6.04	44.65	74.00	-29.35	V	Peak
2998.000	41.03	-1.36	39.67	74.00	-34.33	H	Peak
3214.000	43.21	-1.00	42.21	74.00	-31.79	H	Peak
3835.000	41.21	0.89	42.10	74.00	-31.90	H	Peak
4249.000	41.08	2.47	43.55	74.00	-30.45	H	Peak
4771.000	38.93	4.23	43.16	74.00	-30.84	H	Peak
5239.000	39.52	5.41	44.93	74.00	-29.07	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT20 MHz (CH Mid)**Tested by:** Saber Huang**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2935.000	42.09	-1.48	40.61	74.00	-33.39	V	Peak
3538.000	42.01	-0.36	41.65	74.00	-32.35	V	Peak
4006.000	39.42	1.61	41.03	74.00	-32.97	V	Peak
4825.000	39.21	4.41	43.62	74.00	-30.38	V	Peak
5149.000	39.05	5.25	44.30	74.00	-29.70	V	Peak
5680.000	38.80	5.95	44.75	74.00	-29.25	V	Peak
3286.000	41.83	-0.88	40.95	74.00	-33.05	H	Peak
3952.000	40.18	1.39	41.57	74.00	-32.43	H	Peak
4438.000	39.86	3.13	42.99	74.00	-31.01	H	Peak
4825.000	40.37	4.41	44.78	74.00	-29.22	H	Peak
5284.000	39.05	5.49	44.54	74.00	-29.46	H	Peak
5635.000	40.07	5.93	46.00	74.00	-28.00	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / EEE 802.11n HT20 MHz (CH High)**Tested by:** Saber Huang**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2827.000	43.55	-1.67	41.88	74.00	-32.12	V	Peak
4114.000	38.85	1.99	40.84	74.00	-33.16	V	Peak
4573.000	39.31	3.59	42.90	74.00	-31.10	V	Peak
5302.000	39.26	5.52	44.78	74.00	-29.22	V	Peak
5617.000	39.58	5.92	45.50	74.00	-28.50	V	Peak
6229.000	39.14	6.45	45.59	74.00	-28.41	V	Peak
3097.000	43.82	-1.20	42.62	74.00	-31.38	H	Peak
4393.000	39.56	2.97	42.53	74.00	-31.47	H	Peak
4852.000	40.96	4.50	45.46	74.00	-28.54	H	Peak
5842.000	39.33	6.01	45.34	74.00	-28.66	H	Peak
6535.000	39.66	6.95	46.61	74.00	-27.39	H	Peak
7291.000	39.88	8.27	48.15	74.00	-25.85	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Combine with Antenna 0 and Antenna 1****Test Mode:** TX/ IEEE 802.11n HT40 MHz (CH Low)**Tested by:** Saber Huang**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3403.000	41.60	-0.68	40.92	74.00	-33.08	V	Peak
3844.000	40.77	0.93	41.70	74.00	-32.30	V	Peak
4222.000	39.57	2.37	41.94	74.00	-32.06	V	Peak
4816.000	40.46	4.38	44.84	74.00	-29.16	V	Peak
5428.000	39.29	5.74	45.03	74.00	-28.97	V	Peak
6238.000	39.63	6.47	46.10	74.00	-27.90	V	Peak
2557.000	44.91	-2.16	42.75	74.00	-31.25	H	Peak
3214.000	43.27	-1.00	42.27	74.00	-31.73	H	Peak
4636.000	40.06	3.79	43.85	74.00	-30.15	H	Peak
4978.000	40.39	4.91	45.30	74.00	-28.70	H	Peak
5905.000	39.84	6.04	45.88	74.00	-28.12	H	Peak
7012.000	40.07	7.72	47.79	74.00	-26.21	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

**Test Mode:** TX / IEEE 802.11n HT40 MHz (CH Mid)**Tested by:** Saber Huang**Ambient temperature:** 24°C**Relative humidity:** 52% RH**Date:** July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
2818.000	43.24	-1.69	41.55	74.00	-32.45	V	Peak
3565.000	41.74	-0.25	41.49	74.00	-32.51	V	Peak
3844.000	40.06	0.93	40.99	74.00	-33.01	V	Peak
4582.000	39.71	3.62	43.33	74.00	-30.67	V	Peak
4825.000	38.95	4.41	43.36	74.00	-30.64	V	Peak
5284.000	38.99	5.49	44.48	74.00	-29.52	V	Peak
2809.000	44.13	-1.70	42.43	74.00	-31.57	H	Peak
3466.000	41.41	-0.58	40.83	74.00	-33.17	H	Peak
4546.000	39.02	3.50	42.52	74.00	-31.48	H	Peak
4825.000	40.40	4.41	44.81	74.00	-29.19	H	Peak
5212.000	39.74	5.36	45.10	74.00	-28.90	H	Peak
5914.000	39.57	6.04	45.61	74.00	-28.39	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).

Test Mode: TX/ IEEE 802.11n HT40 MHz (CH High)Tested by: Saber HuangAmbient temperature: 24°CRelative humidity: 52% RHDate: July 1, 2017

Frequency (MHz)	Reading (dBuV)	Correction Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Pole (V/H)	Remark
3214.000	42.71	-1.00	41.71	74.00	-32.29	V	Peak
3592.000	41.47	-0.13	41.34	74.00	-32.66	V	Peak
4348.000	39.62	2.81	42.43	74.00	-31.57	V	Peak
4978.000	40.04	4.91	44.95	74.00	-29.05	V	Peak
5293.000	39.76	5.50	45.26	74.00	-28.74	V	Peak
5986.000	39.11	6.07	45.18	74.00	-28.82	V	Peak
2611.000	44.07	-2.06	42.01	74.00	-31.99	H	Peak
3214.000	42.23	-1.00	41.23	74.00	-32.77	H	Peak
4159.000	39.81	2.15	41.96	74.00	-32.04	H	Peak
4825.000	39.96	4.41	44.37	74.00	-29.63	H	Peak
5266.000	38.59	5.45	44.04	74.00	-29.96	H	Peak
5725.000	39.76	5.96	45.72	74.00	-28.28	H	Peak

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Radiated emissions measured in frequency above 1000MHz were made with an instrument using peak/average detector mode.
3. Average test would be performed if the peak result were greater than the average limit or as required by the applicant.
4. Data of measurement within this frequency range shown " --- " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
5. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
6. Margin (dB) = Remark result (dBuV/m) – Average limit (dBuV/m).



7.3. 6dB BANDWIDTH MEASUREMENT

7.3.1. LIMITS

According to §15.247(a) (2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz.

7.3.2. TEST INSTRUMENTS

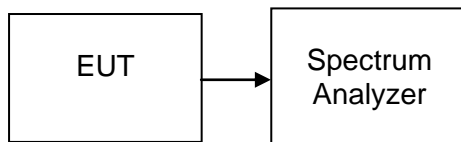
Name of Equipment	Manufacturer	Model	Serial Number	Last Calibration	Calibration Due
Spectrum Analyzer	Agilent	N9010A	MY52221469	02/21/2017	02/20/2018

7.3.3. TEST PROCEDURES (please refer to measurement standard)

8.1 Option 2:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW \geq 3 RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.

7.3.4. TEST SETUP





7.3.5. TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	8107	8113	>500	PASS
Mid	2437	8099	8112		PASS
High	2462	8091	8117		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	15130	15110	>500	PASS
Mid	2437	15110	15120		PASS
High	2462	14450	15090		PASS

Test mode: IEEE 802.11n HT20 MHz

Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2412	15080	15140	>500	PASS
Mid	2437	15100	16300		PASS
High	2462	15110	15110		PASS

Test mode: IEEE 802.11n HT40 MHz

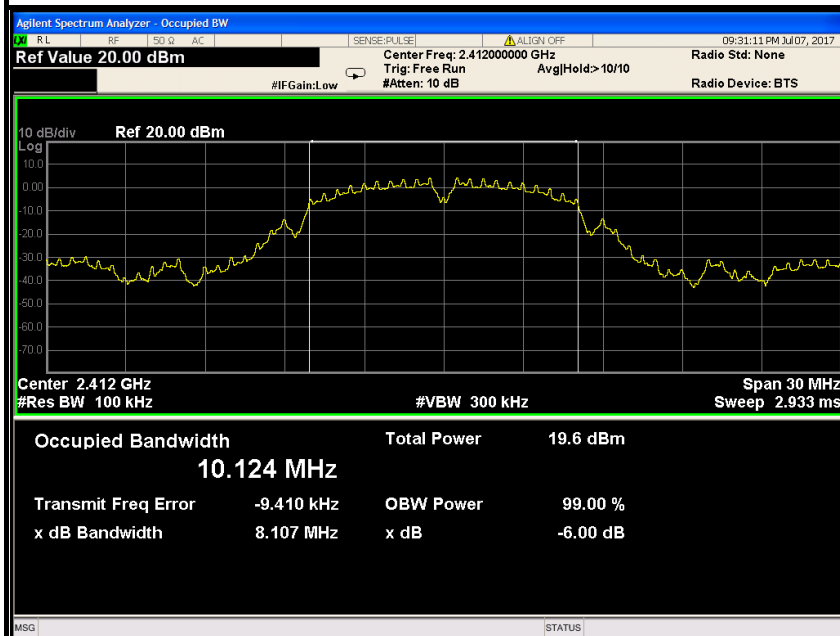
Channel	Frequency (MHz)	Bandwidth (kHz)		Limit (kHz)	Test Result
		Antenna 0	Antenna 1		
Low	2422	35100	35760	>500	PASS
Mid	2437	35090	35750		PASS
High	2452	35150	35750		PASS



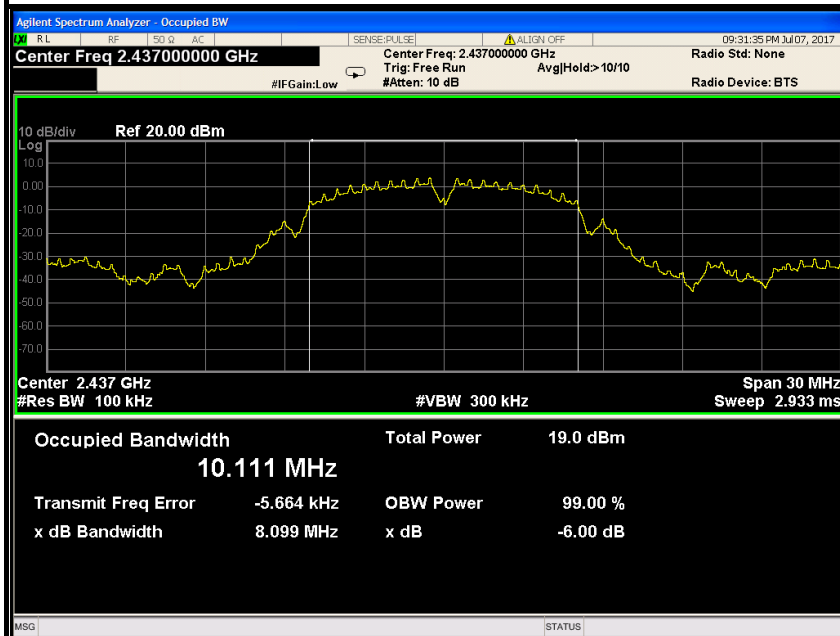
Test Plot

IEEE 802.11b mode (Antenna 0)

6dB Bandwidth (CH Low)

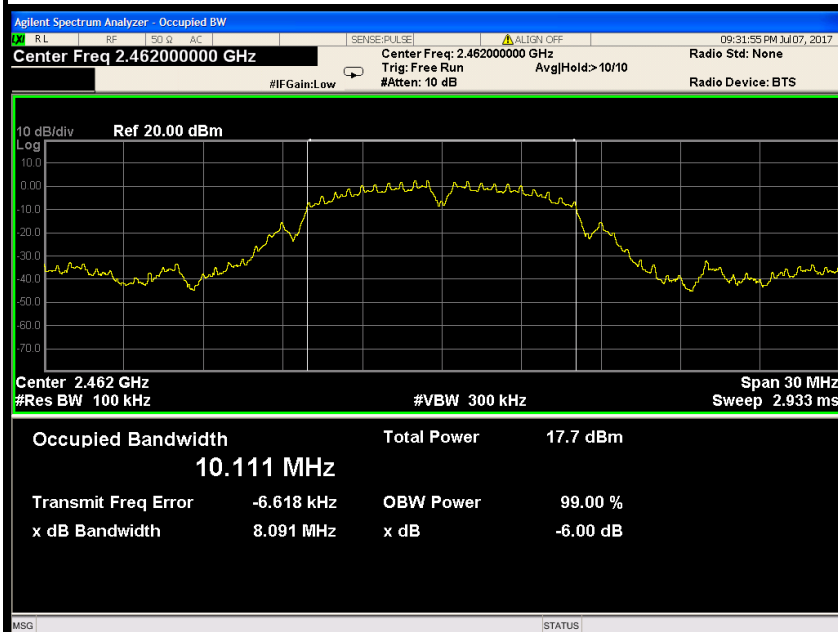


6dB Bandwidth (CH Mid)



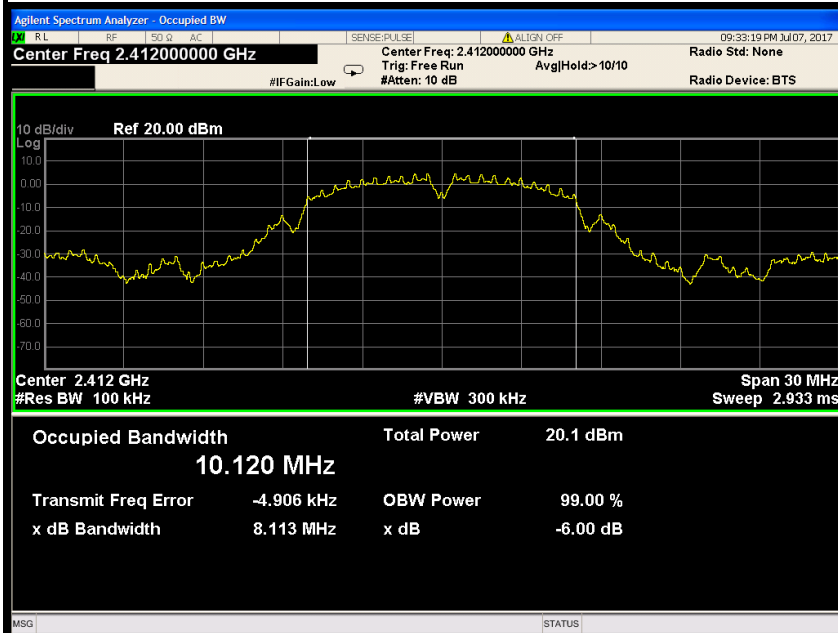


6dB Bandwidth (CH High)



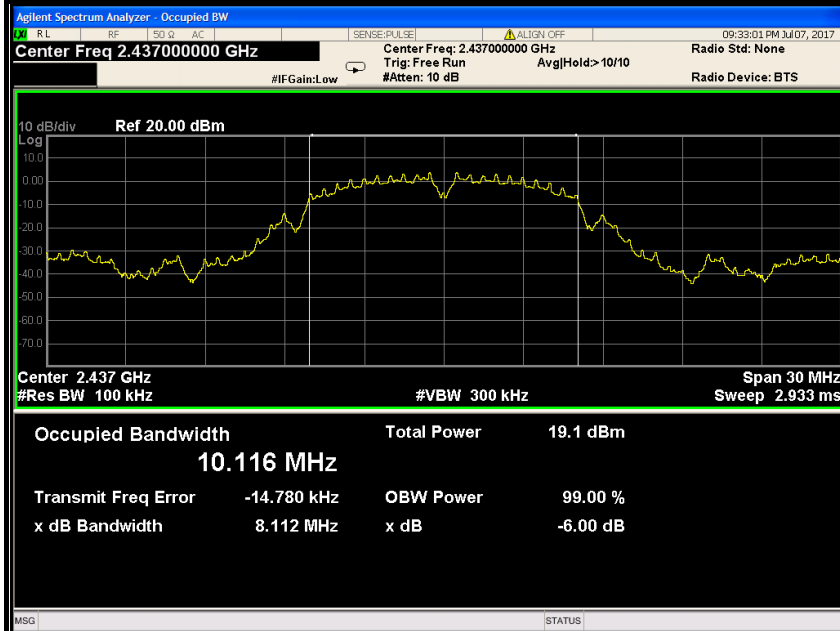
IEEE 802.11b mode (Antenna 1)

6dB Bandwidth (CH Low)

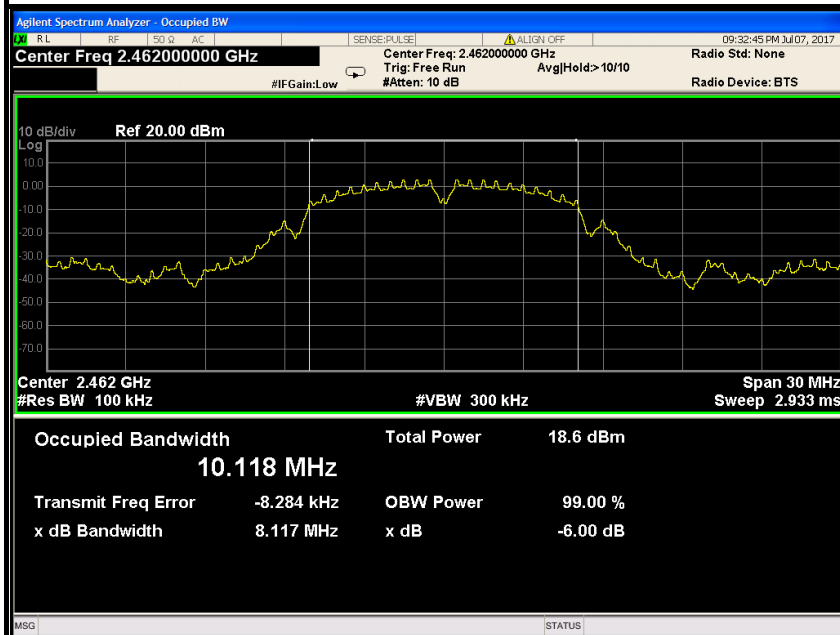




6dB Bandwidth (CH Mid)



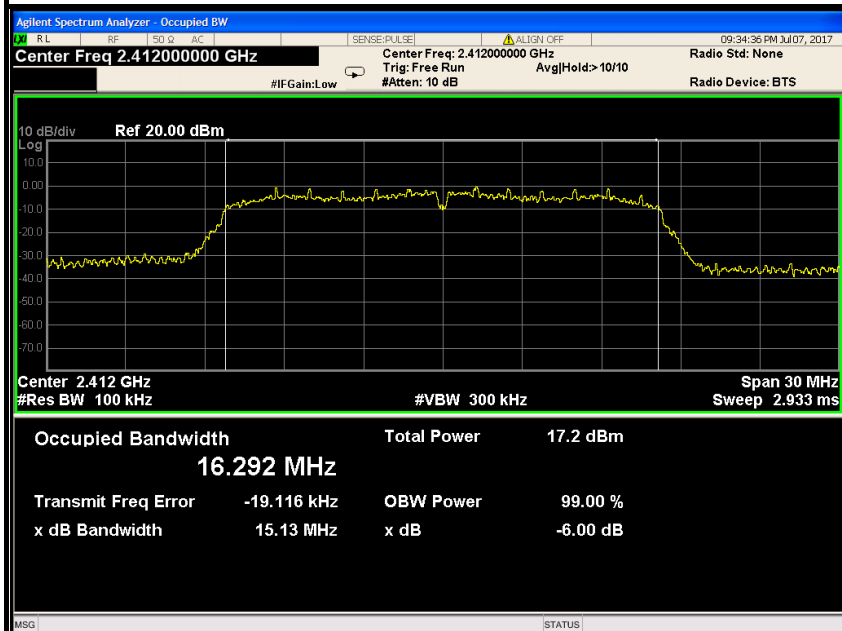
6dB Bandwidth (CH High)



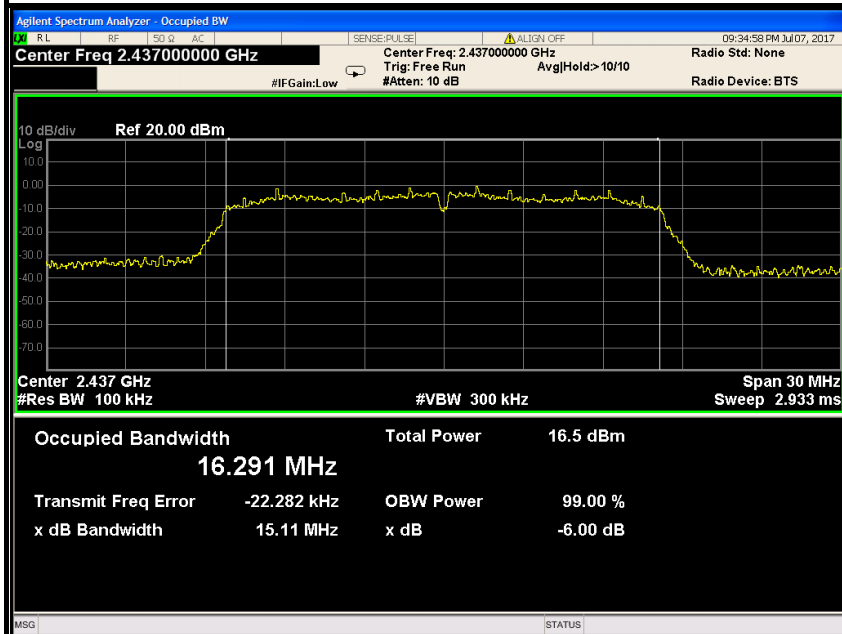


IEEE 802.11g mode (Antenna 0)

6dB Bandwidth (CH Low)

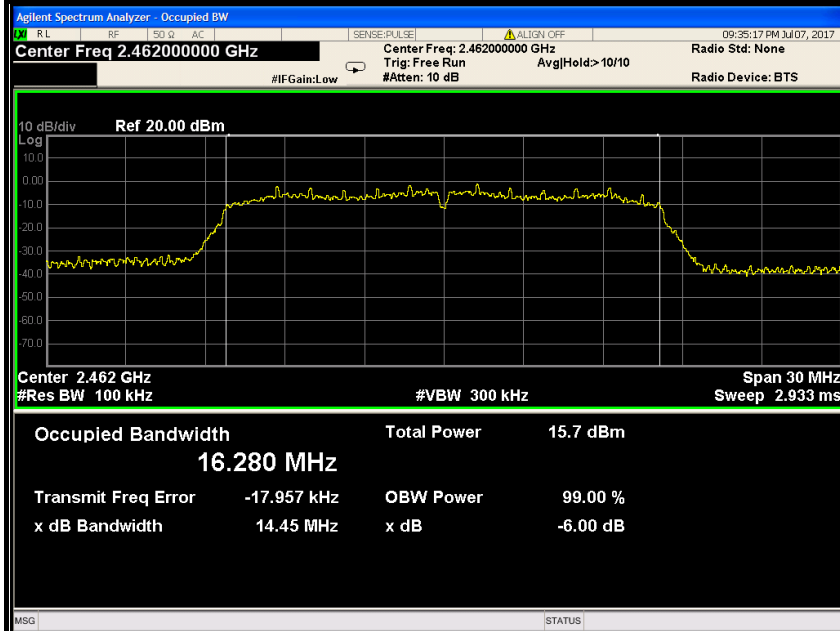


6dB Bandwidth (CH Mid)



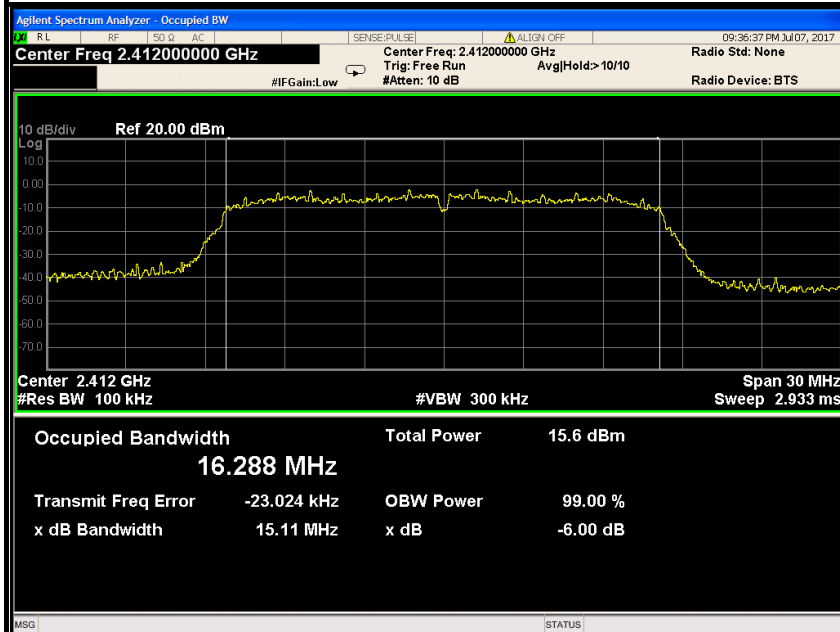


6dB Bandwidth (CH High)



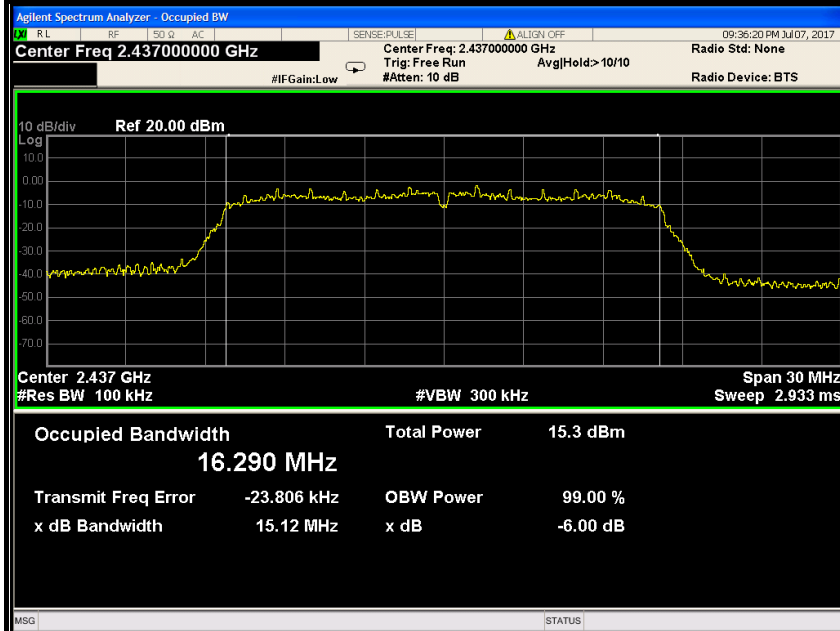
IEEE 802.11g mode (Antenna 1)

6dB Bandwidth (CH Low)

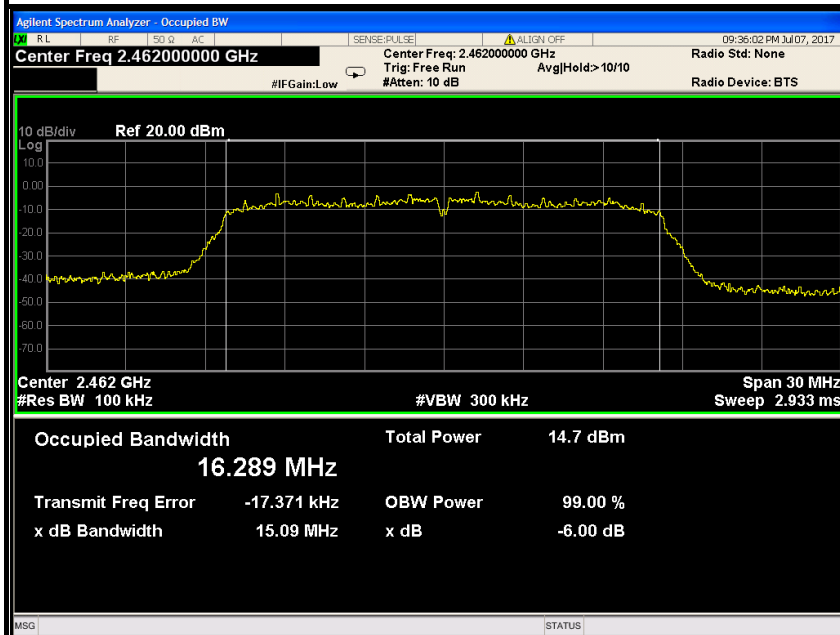




6dB Bandwidth (CH Mid)



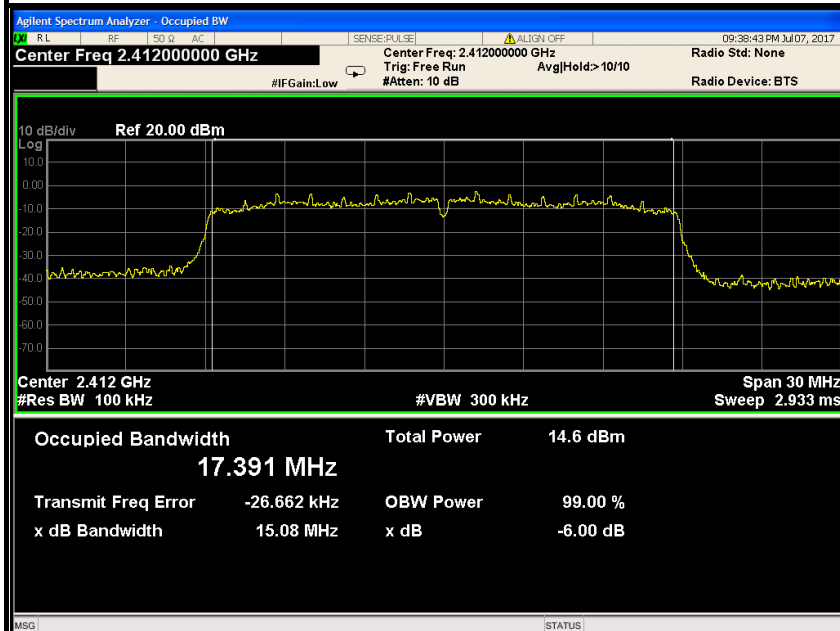
6dB Bandwidth (CH High)



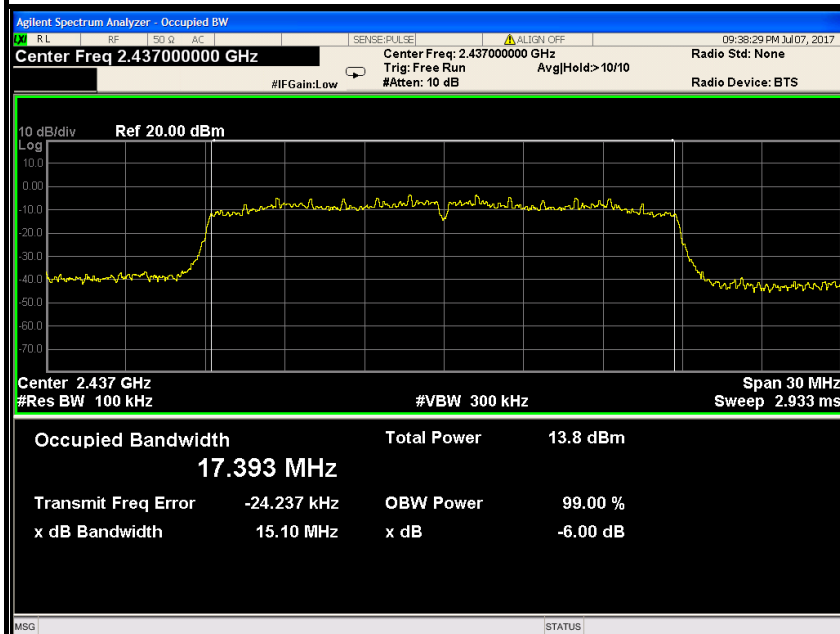


IEEE 802.11n HT20 MHz mode (Antenna 0)

6dB Bandwidth (CH Low)

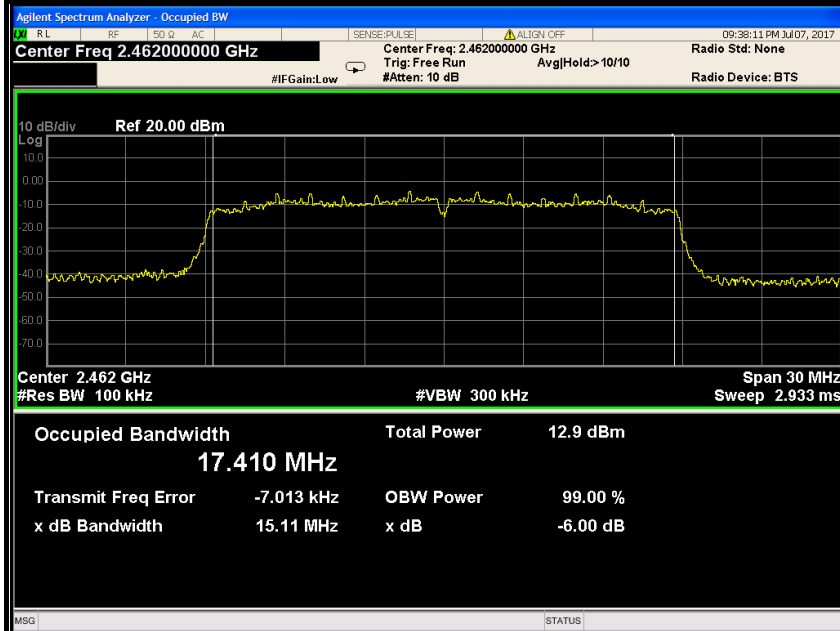


6dB Bandwidth (CH Mid)



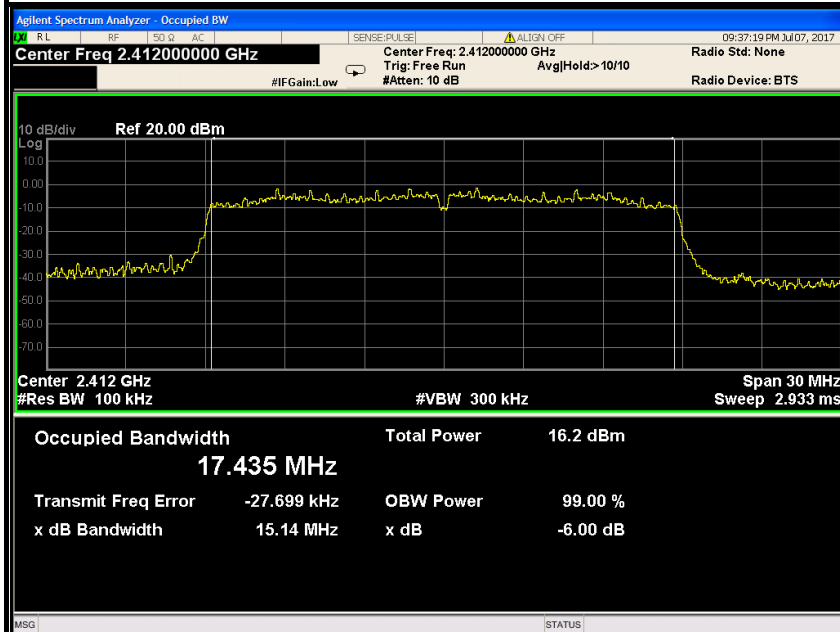


6dB Bandwidth (CH High)



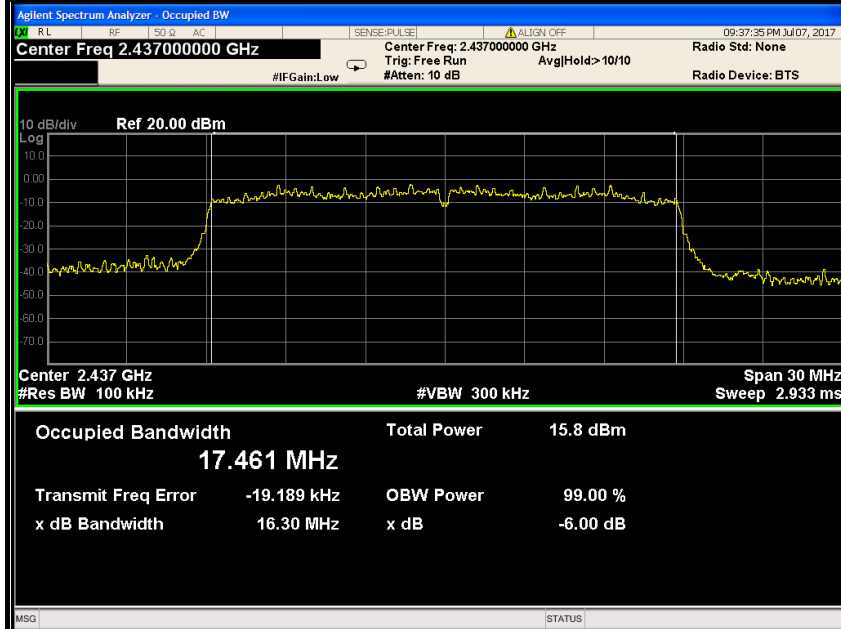
IEEE 802.11n HT20 MHz mode (Antenna 1)

6dB Bandwidth (CH Low)

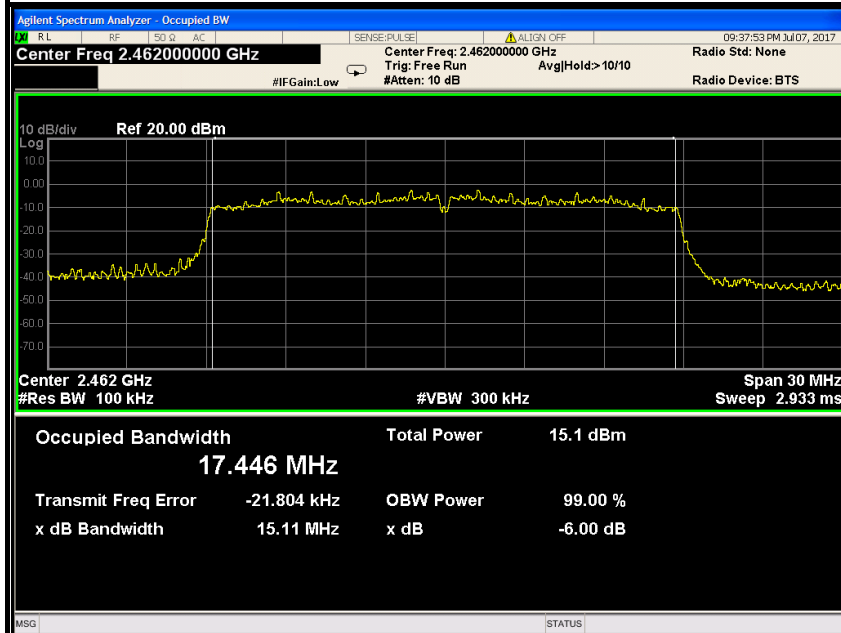




6dB Bandwidth (CH Mid)



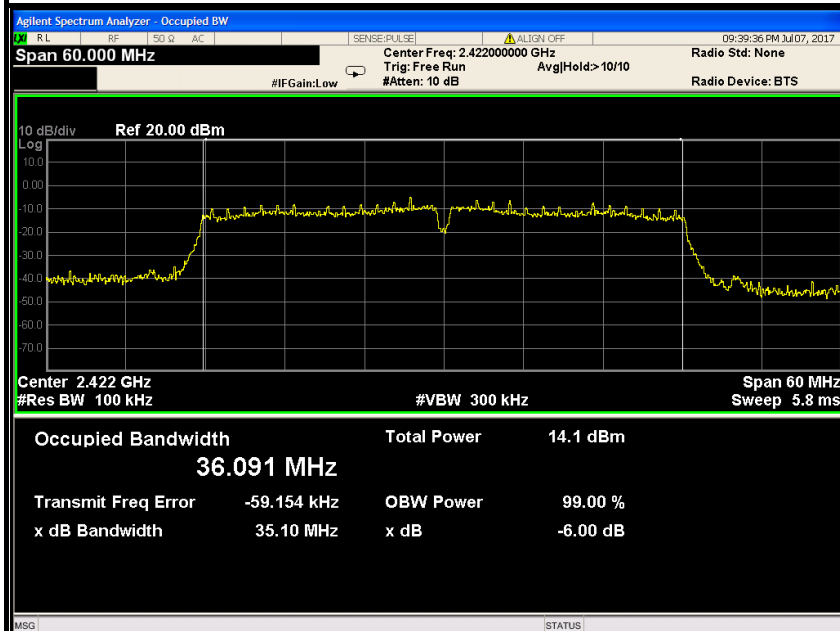
6dB Bandwidth (CH High)



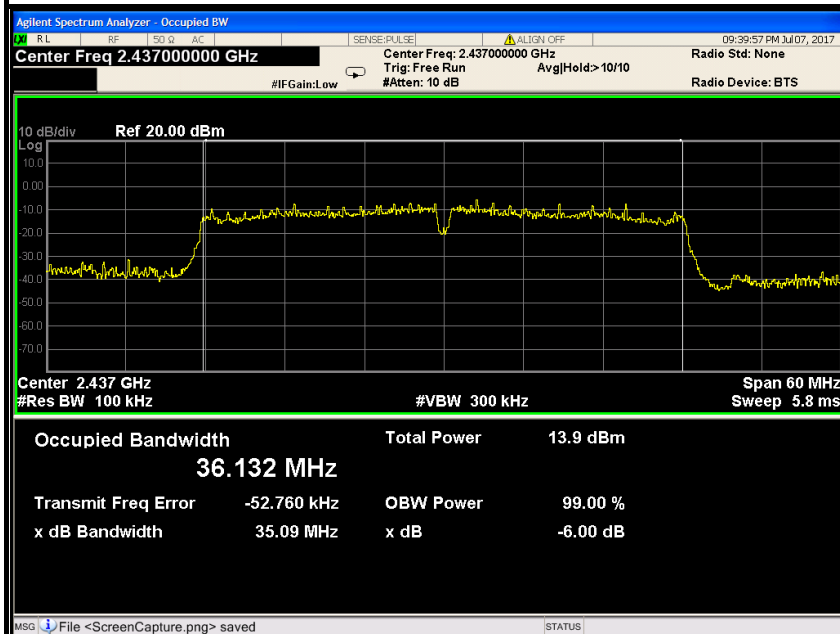


IEEE 802.11n HT40 MHz mode (Antenna 0)

6dB Bandwidth (CH Low)

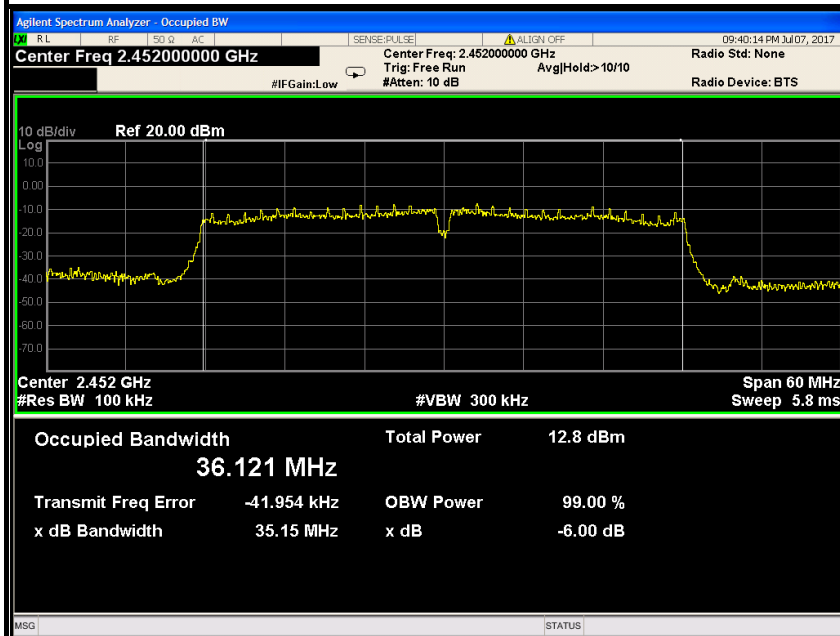


6dB Bandwidth (CH Mid)



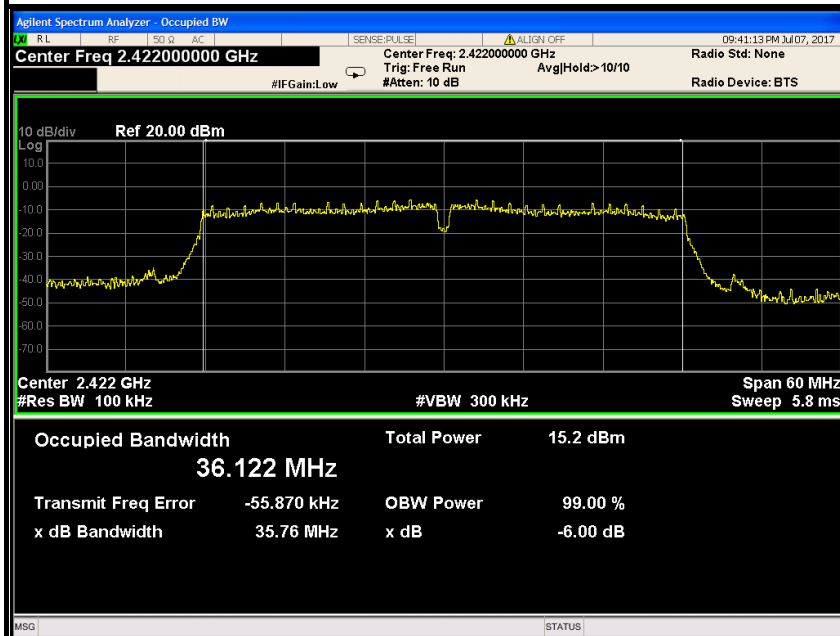


6dB Bandwidth (CH High)



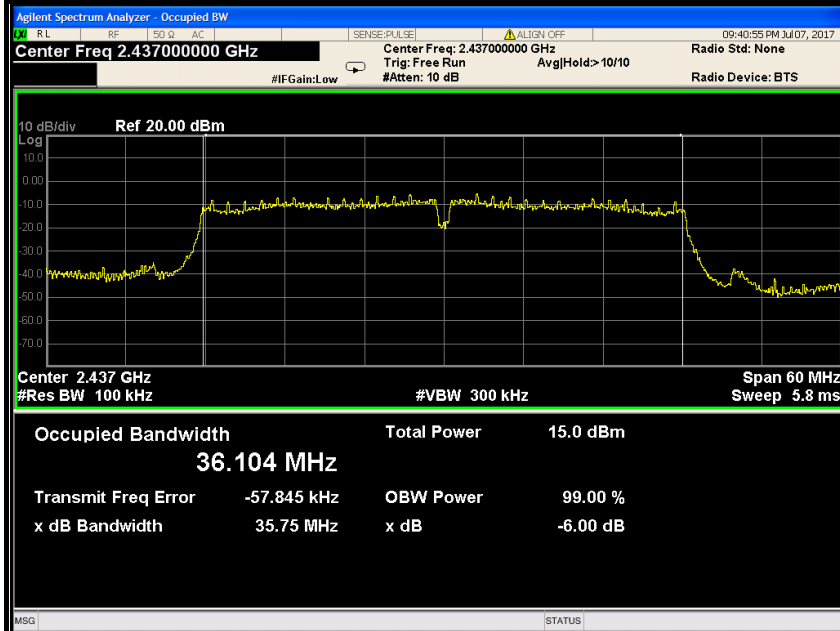
IEEE 802.11n HT40 MHz mode (Antenna 1)

6dB Bandwidth (CH Low)

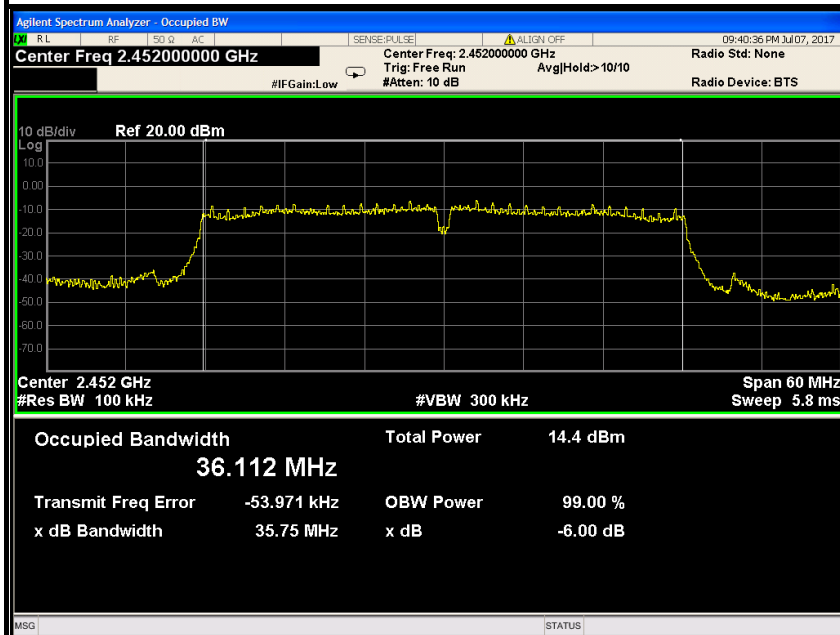




6dB Bandwidth (CH Mid)



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

Antenna 0

T_{nom}	V_{nom}	Lowest channel 2412MHz	Middle channel 2437MHz	Highest channel 2462MHz
Conducted power [dBm/MHz] Measured with DSSS modulation		7.47	7.59	7.04
Radiated power [dBm/MHz] Measured with DSSS modulation		9.04	9.13	9.08
Gain [dBi] Calculated		1.57	1.54	2.04
Measurement uncertainty		± 1.5 dB (cond.) / ± 3 dB (rad.)		

Antenna 1

T_{nom}	V_{nom}	Lowest channel 2412MHz	Middle channel 2437MHz	Highest channel 2462MHz
Conducted power [dBm/MHz] Measured with DSSS modulation		8.33	7.81	7.57
Radiated power [dBm/MHz] Measured with DSSS modulation		9.69	9.23	9.18
Gain [dBi] Calculated		1.36	1.42	1.61
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	02/21/2017	02/20/2018
Power Sensor	Anritsu	MA2411B	1126150	02/21/2017	02/20/2018

7.5.3. TEST PROCEDURES (please refer to measurement standard)

9.1.1 RBW \geq DTS bandwidth

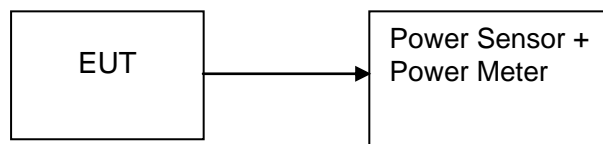
This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the *DTS bandwidth*.

- 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	17.52	0.05649	Peak	1	PASS
Mid	2437	17.64	0.05808			PASS
High	2462	17.09	0.05117			PASS
Low	2412	14.34	0.02716	AVG	1	PASS
Mid	2437	14.45	0.02786			PASS
High	2462	13.79	0.02393			PASS

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	18.39	0.06902	Peak	1	PASS
Mid	2437	17.86	0.06109			PASS
High	2462	17.63	0.05794			PASS
Low	2412	15.17	0.03289	AVG	1	PASS
Mid	2437	14.09	0.02564			PASS
High	2462	14.22	0.02642			PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	17.54	0.05675	Peak	1	PASS
Mid	2437	17.75	0.05957			PASS
High	2462	17.60	0.05754			PASS
Low	2412	12.12	0.01629	AVG	1	PASS
Mid	2437	10.63	0.01156			PASS
High	2462	9.81	0.00957			PASS



Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Peak / AVG	Limit (W)	Result
Low	2412	17.86	0.06109	Peak	1	PASS
Mid	2437	17.77	0.05984			PASS
High	2462	17.07	0.05093			PASS
Low	2412	10.81	0.01205	AVG	1	PASS
Mid	2437	10.26	0.01062			PASS
High	2462	9.94	0.00986			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	16.62	17.37	20.02	0.10050	Peak	1	PASS
Mid	2437	16.72	17.50	20.14	0.10322			PASS
High	2462	16.24	17.19	19.75	0.09443			PASS
Low	2412	9.48	11.12	13.39	0.02181	AVG	1	PASS
Mid	2437	9.03	10.61	12.90	0.01951			PASS
High	2462	8.45	9.92	12.26	0.01682			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	15.84	16.20	19.03	0.08006	Peak	1	PASS
Mid	2437	15.53	15.78	18.67	0.07357			PASS
High	2452	16.30	16.20	19.26	0.08434			PASS
Low	2422	7.96	8.43	11.21	0.01322	AVG	1	PASS
Mid	2437	8.00	7.99	11.01	0.01260			PASS
High	2452	8.67	8.67	11.68	0.01472			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	N9010A	MY52221469	02/21/2017	02/20/2018
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI	100783	02/21/2017	02/20/2018
Amplifier	EMEC	EM330	060661	03/18/2017	03/17/2018
High Noise Amplifier	Agilent	8449B	3008A01838	02/21/2017	02/20/2018
Loop Antenna	COM-POWER	AL-130	121044	09/25/2016	09/24/2017
Bilog Antenna	SCHAFFNER	CBL6143	5082	02/21/2017	02/20/2018
Horn Antenna	SCHWARZBECK	BBHA9120	D286	02/27/2018	02/27/2018
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170-497	02/27/2018	02/27/2018
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	02/21/2017	02/20/2018
Test S/W	FARAD	LZ-RF / CCS-SZ-3A2			

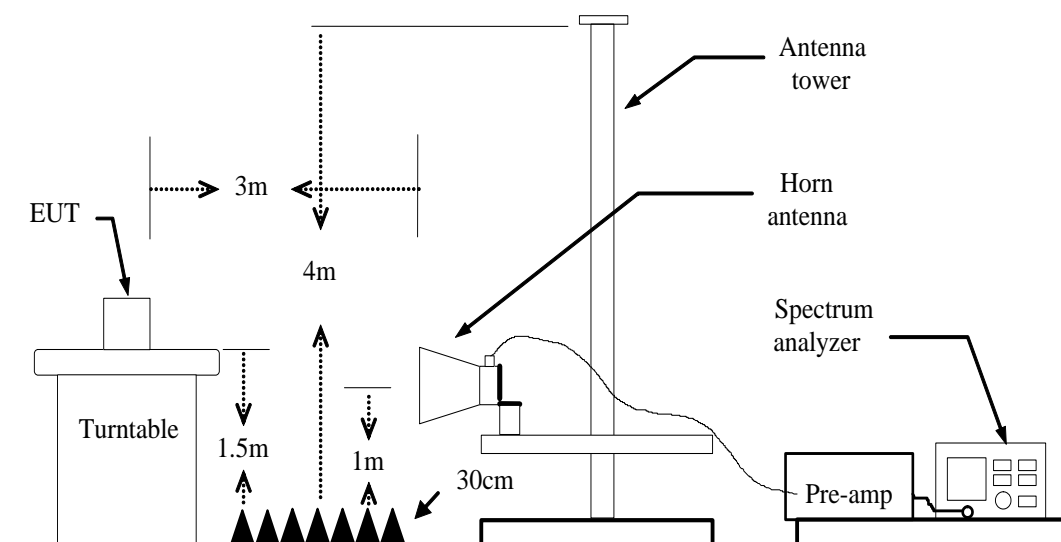
- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The FCC Site Registration number is 101879.
3. N.C.R = No Calibration Required.



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=3MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO / Detector=PEAK
5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are

7.6.4. TEST SETUP



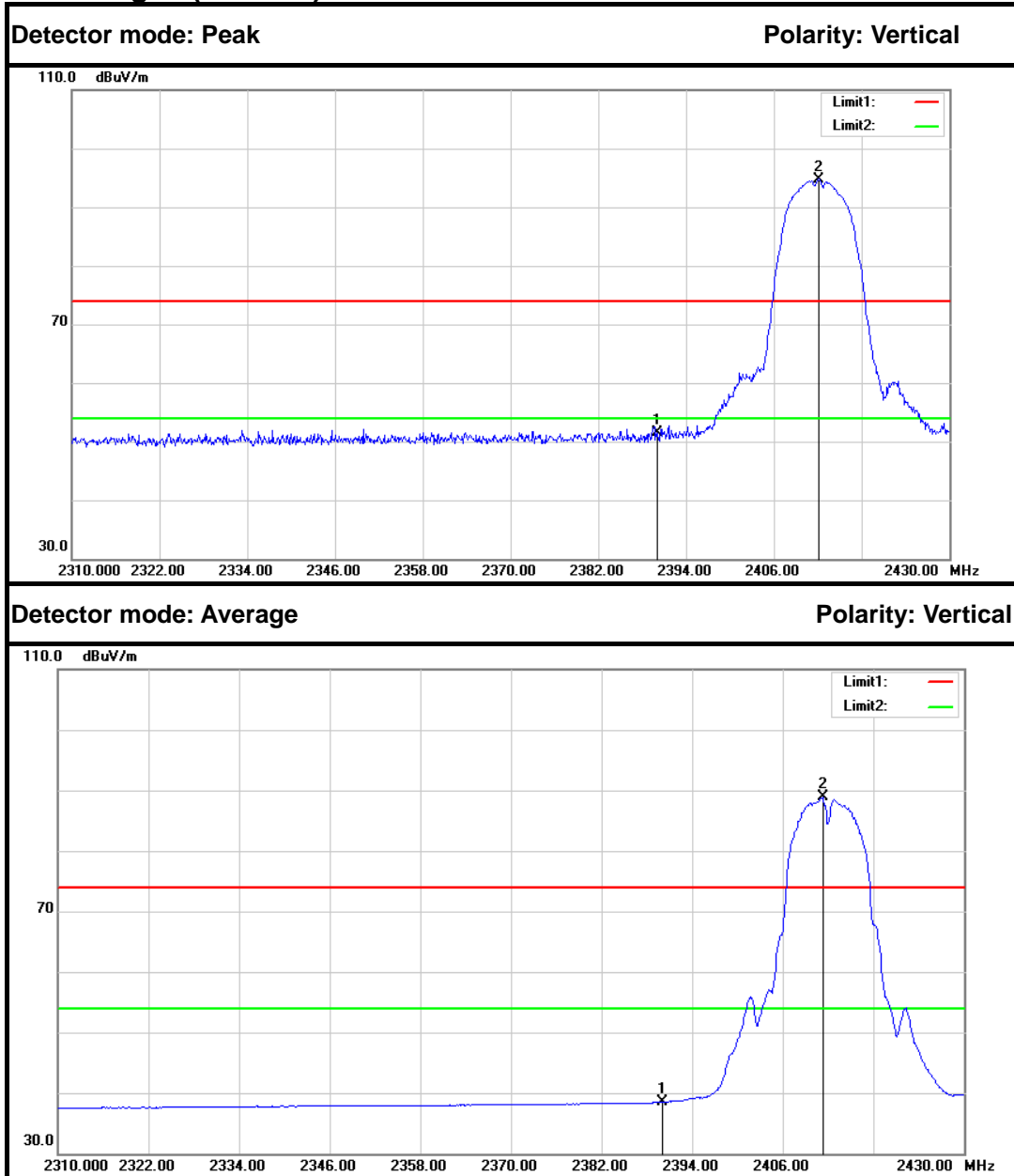


7.6.5. TEST RESULTS

Test Plot

IEEE 802.11b mode (Antenna 0)

Band Edges (CH Low)

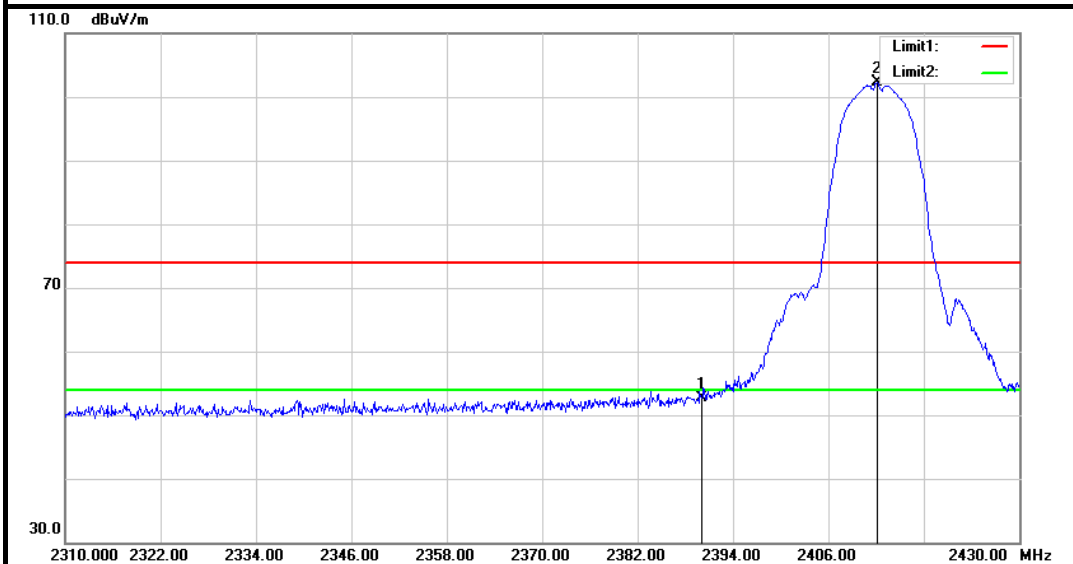


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	54.34	-2.86	51.48	74.00	-22.52	Peak	Vertical
2	2412.120	97.54	-2.74	94.80	---	---	Peak	Vertical
1	2390.000	41.33	-2.86	38.47	54.00	-15.53	Average	Vertical
2	2411.280	91.62	-2.75	88.87	---	---	Average	Vertical



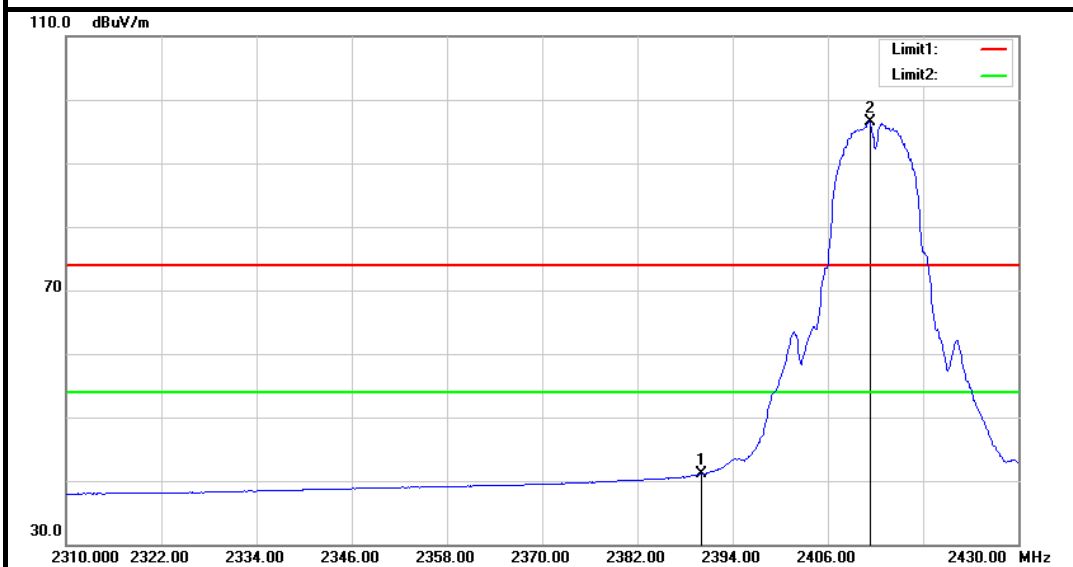
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

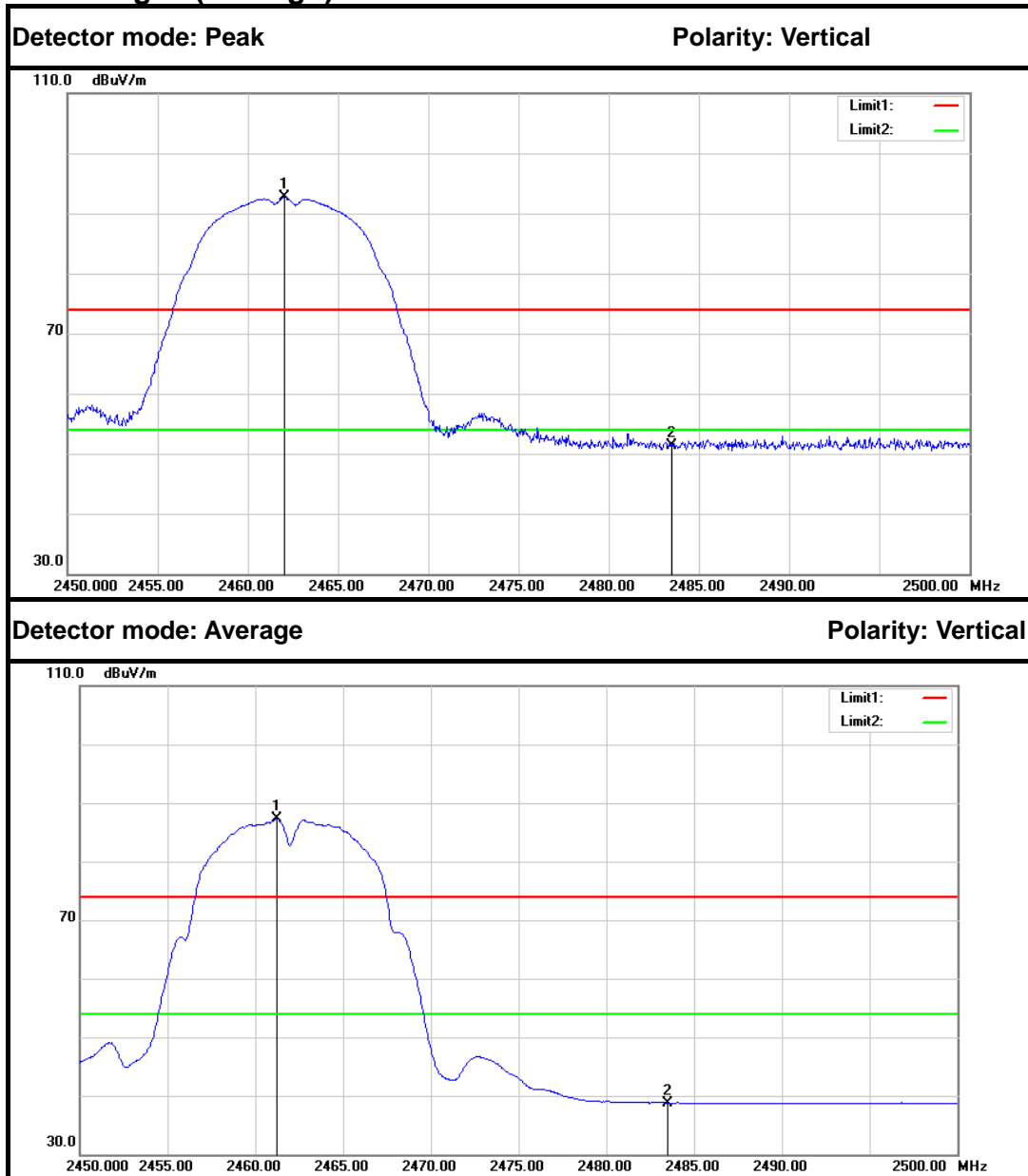
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	55.60	-2.86	52.74	74.00	-21.26	Peak	Horizontal
2	2412.120	105.06	-2.74	102.32	---	---	Peak	Horizontal
1	2390.000	43.91	-2.86	41.05	54.00	-12.95	Average	Horizontal
2	2411.280	99.23	-2.75	96.48	---	---	Average	Horizontal



Band Edges (CH High)

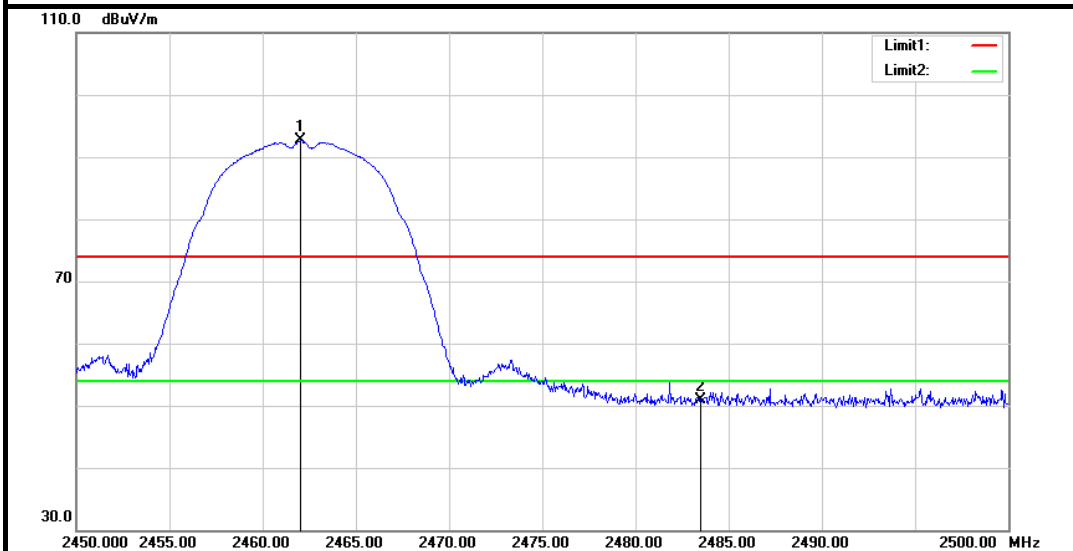


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2462.050	95.19	-2.47	92.72	---	---	Peak	Vertical
2	2483.500	53.72	-2.35	51.37	74.00	-22.63	Peak	Vertical
1	2461.200	89.75	-2.47	87.28	---	---	Average	Vertical
2	2483.500	41.13	-2.35	38.78	54.00	-15.22	Average	Vertical



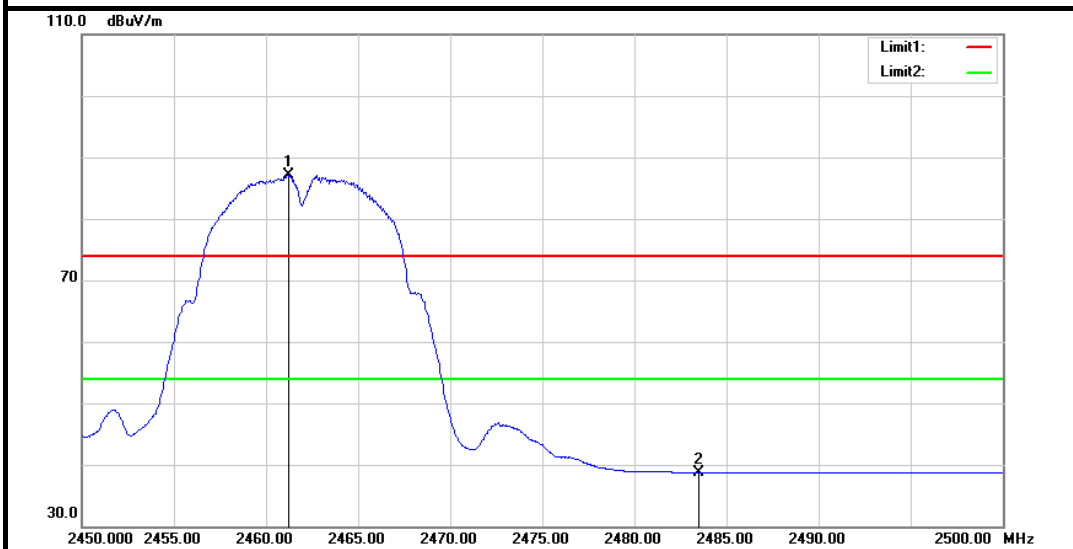
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

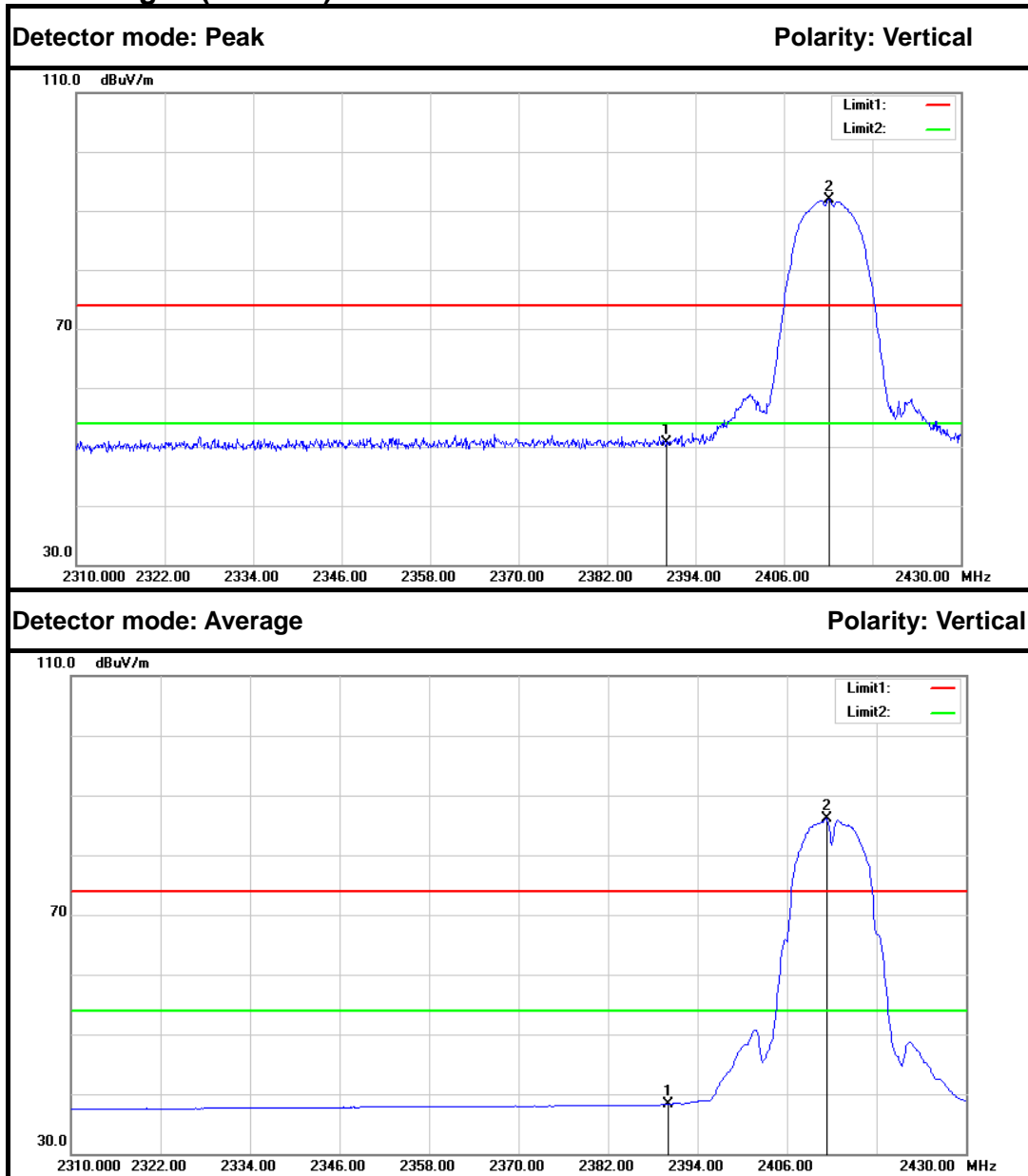


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2462.000	95.19	-2.47	92.72	---	---	Peak	Horizontal
2	2483.500	53.34	-2.35	50.99	74.00	-23.01	Peak	Horizontal
1	2461.200	89.62	-2.47	87.15	---	---	Average	Horizontal
2	2483.500	41.13	-2.35	38.78	54.00	-15.22	Average	Horizontal



IEEE 802.11b mode (Antenna 1)

Band Edges (CH Low)

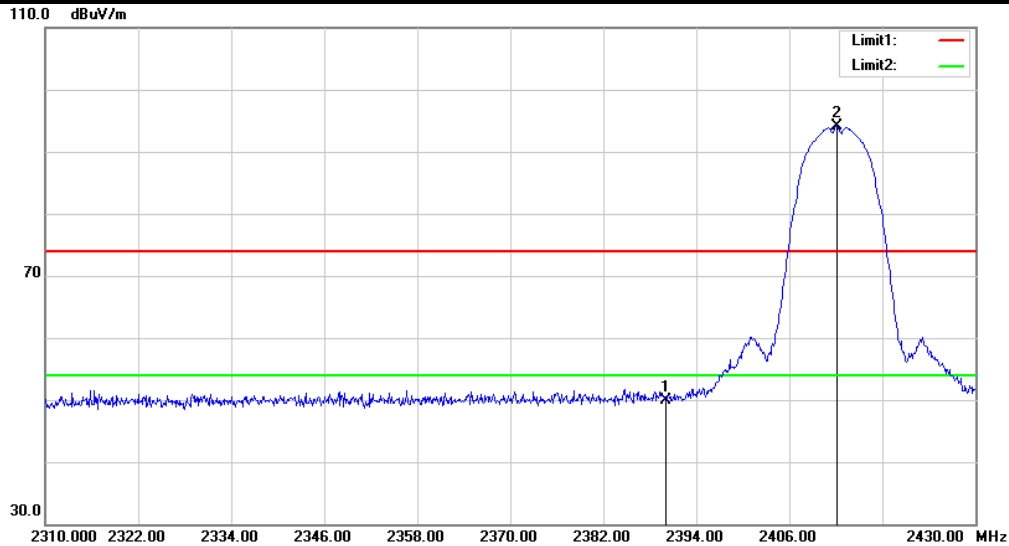


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	53.55	-2.86	50.69	74.00	-23.31	Peak	Vertical
2	2412.120	94.69	-2.74	91.95	---	---	Peak	Vertical
1	2390.000	41.16	-2.86	38.30	54.00	-15.70	Average	Vertical
2	2411.280	88.85	-2.75	86.10	---	---	Average	Vertical



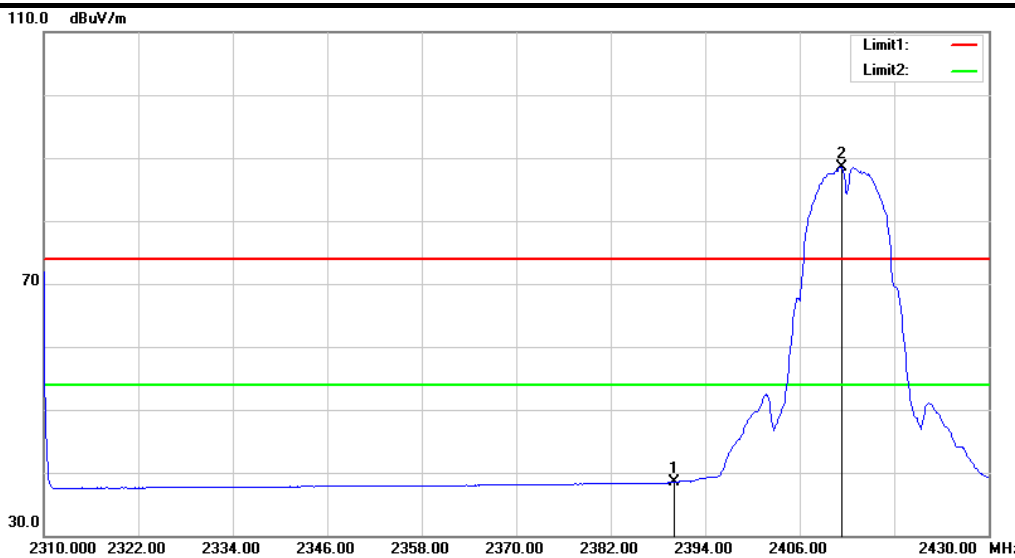
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

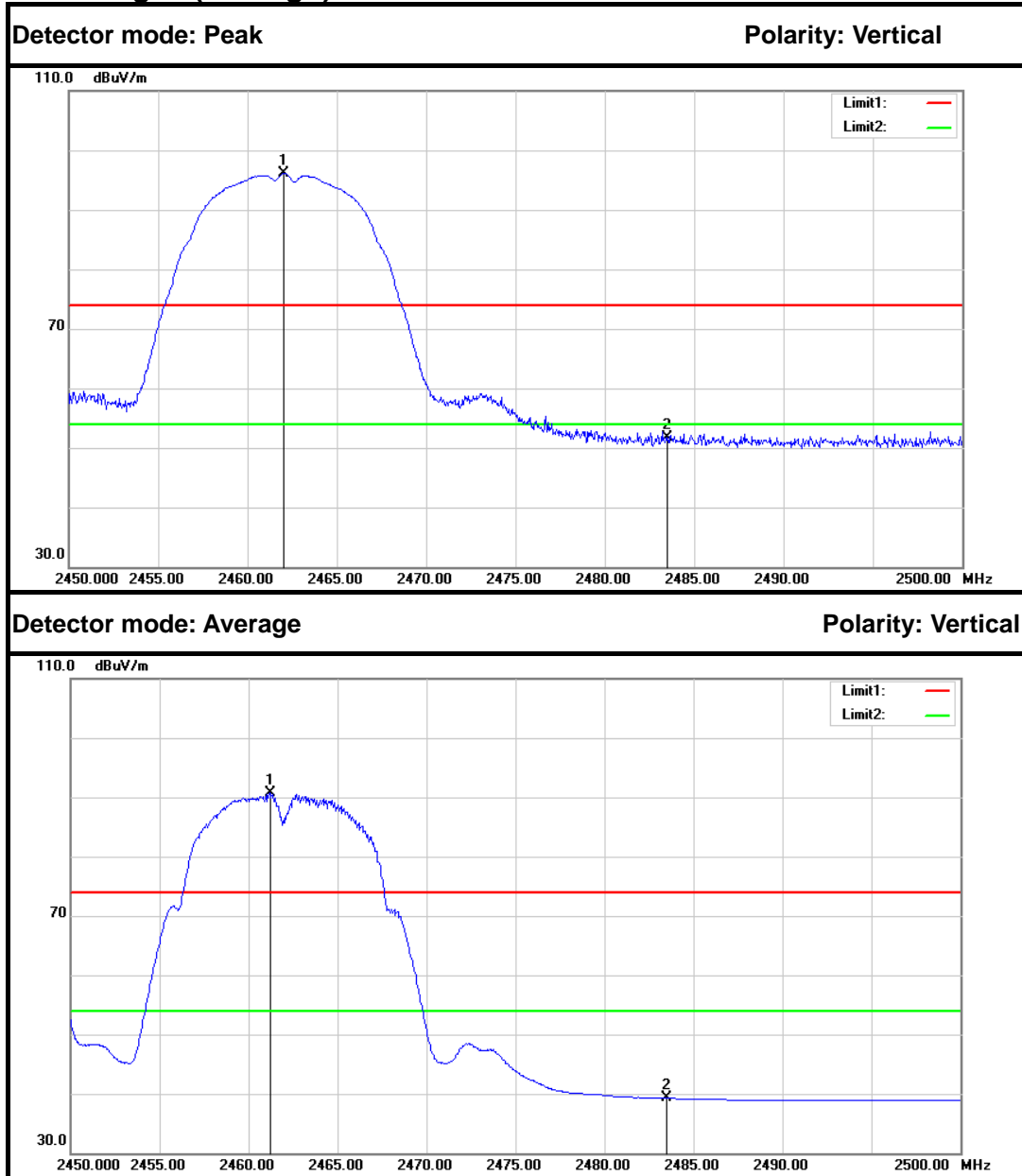
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	52.67	-2.86	49.81	74.00	-24.19	Peak	Horizontal
2	2412.120	96.90	-2.74	94.16	---	---	Peak	Horizontal
1	2390.000	41.34	-2.86	38.48	54.00	-15.52	Average	Horizontal
2	2411.280	91.33	-2.75	88.58	---	---	Average	Horizontal



Band Edges (CH High)

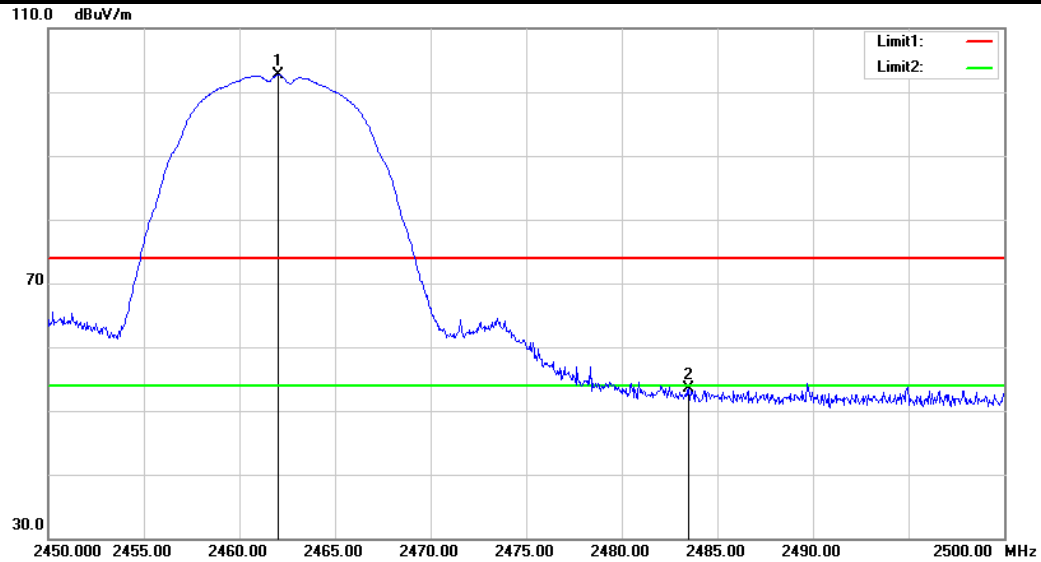


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2462.050	98.60	-2.47	96.13	---	---	Peak	Vertical
2	2483.500	53.96	-2.35	51.61	74.00	-22.39	Peak	Vertical
1	2461.200	93.19	-2.47	90.72	---	---	Average	Vertical
2	2483.500	41.61	-2.35	39.26	54.00	-14.74	Average	Vertical



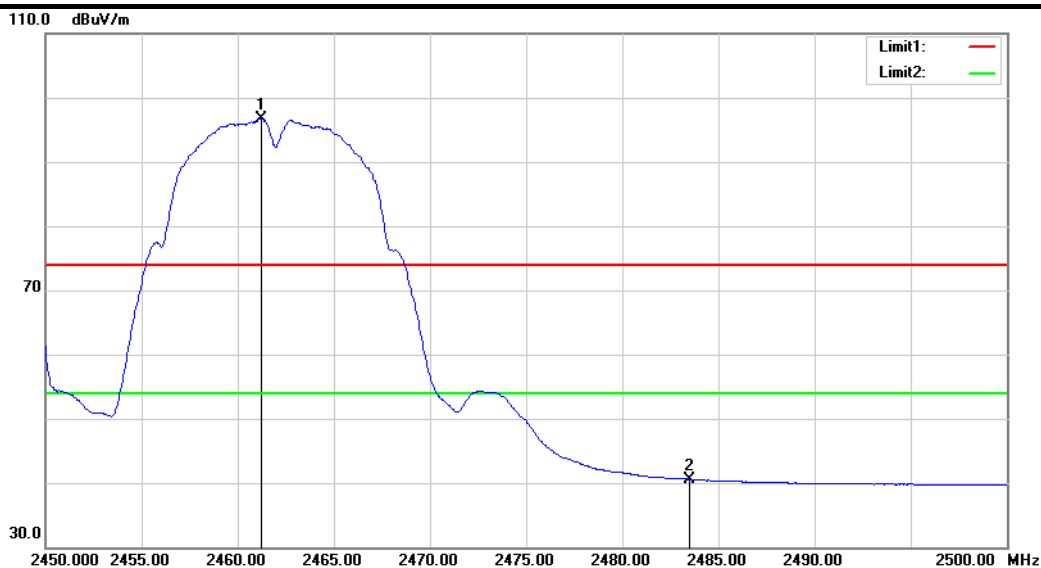
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

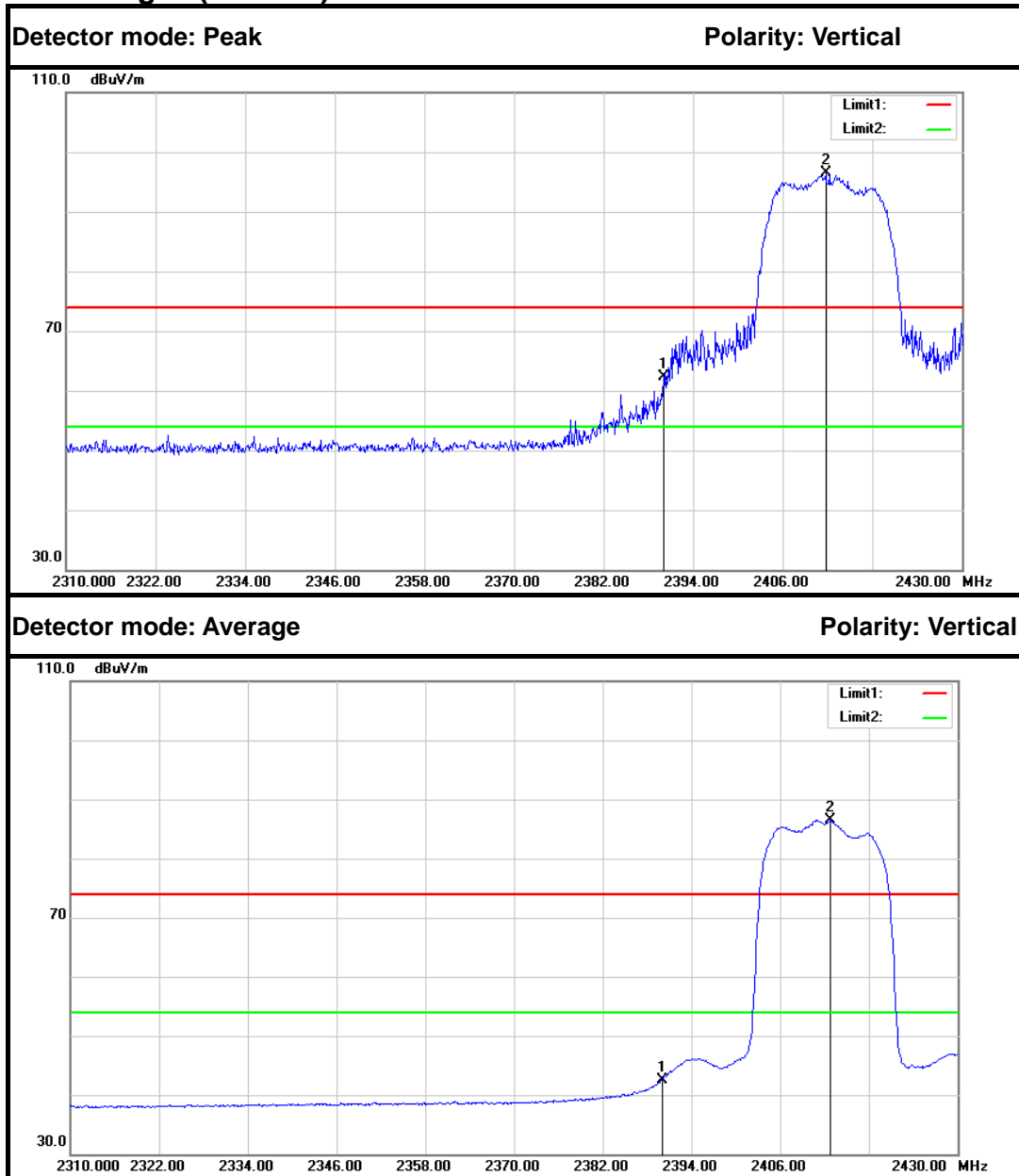


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2462.050	105.20	-2.47	102.73	---	---	Peak	Horizontal
2	2483.500	55.84	-2.35	53.49	74.00	-20.51	Peak	Horizontal
1	2461.200	99.27	-2.47	96.80	---	---	Average	Horizontal
2	2483.500	42.91	-2.35	40.56	54.00	-13.44	Average	Horizontal



IEEE 802.11g mode (Antenna 0)

Band Edges (CH Low)

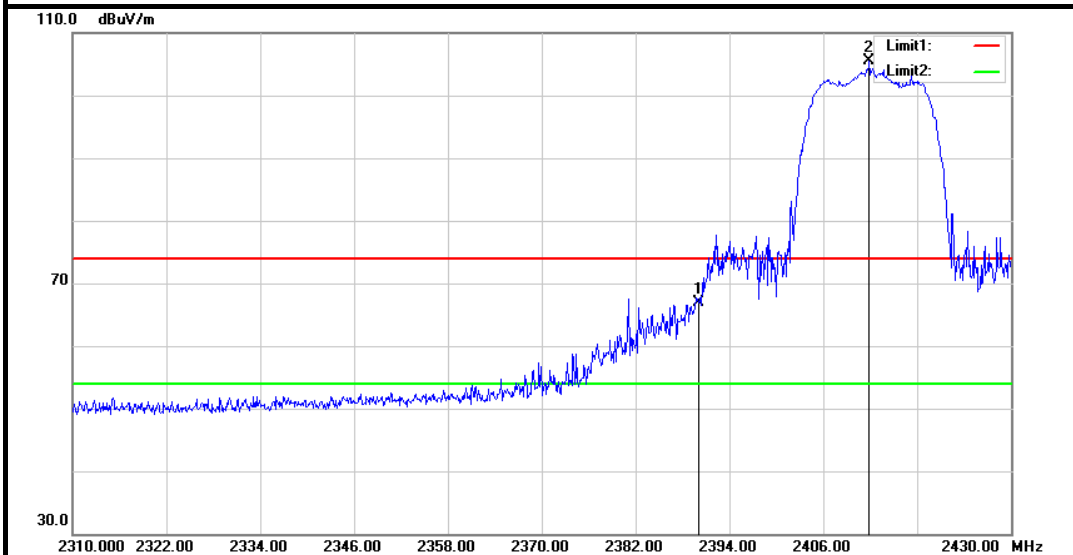


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	65.13	-2.86	62.27	74.00	-11.73	Peak	Vertical
2	2411.760	99.30	-2.74	96.56	---	---	Peak	Vertical
1	2390.000	45.42	-2.86	42.56	54.00	-11.44	Average	Vertical
2	2412.840	89.19	-2.74	86.45	---	---	Average	Vertical



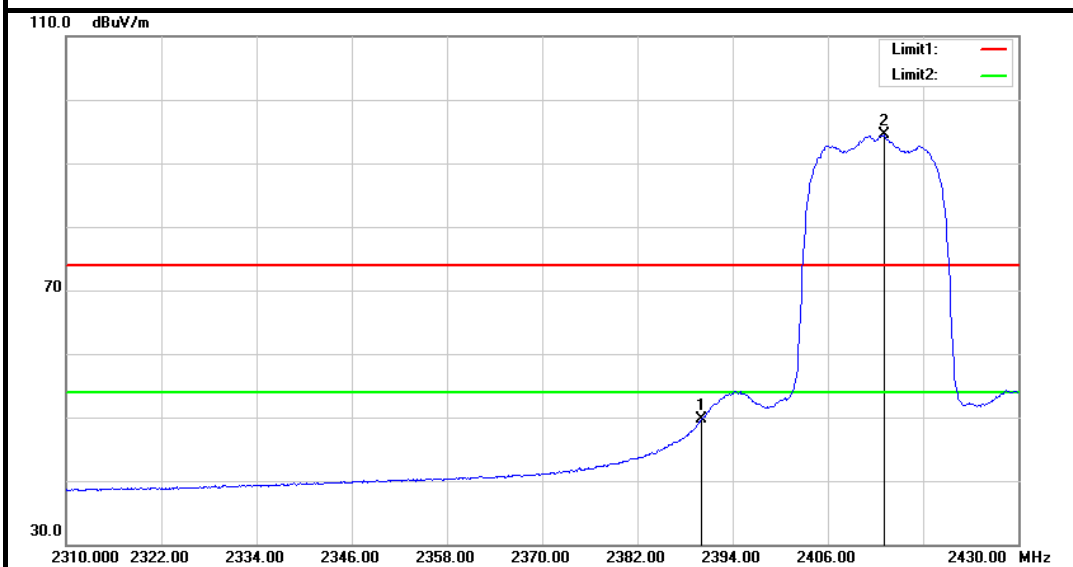
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

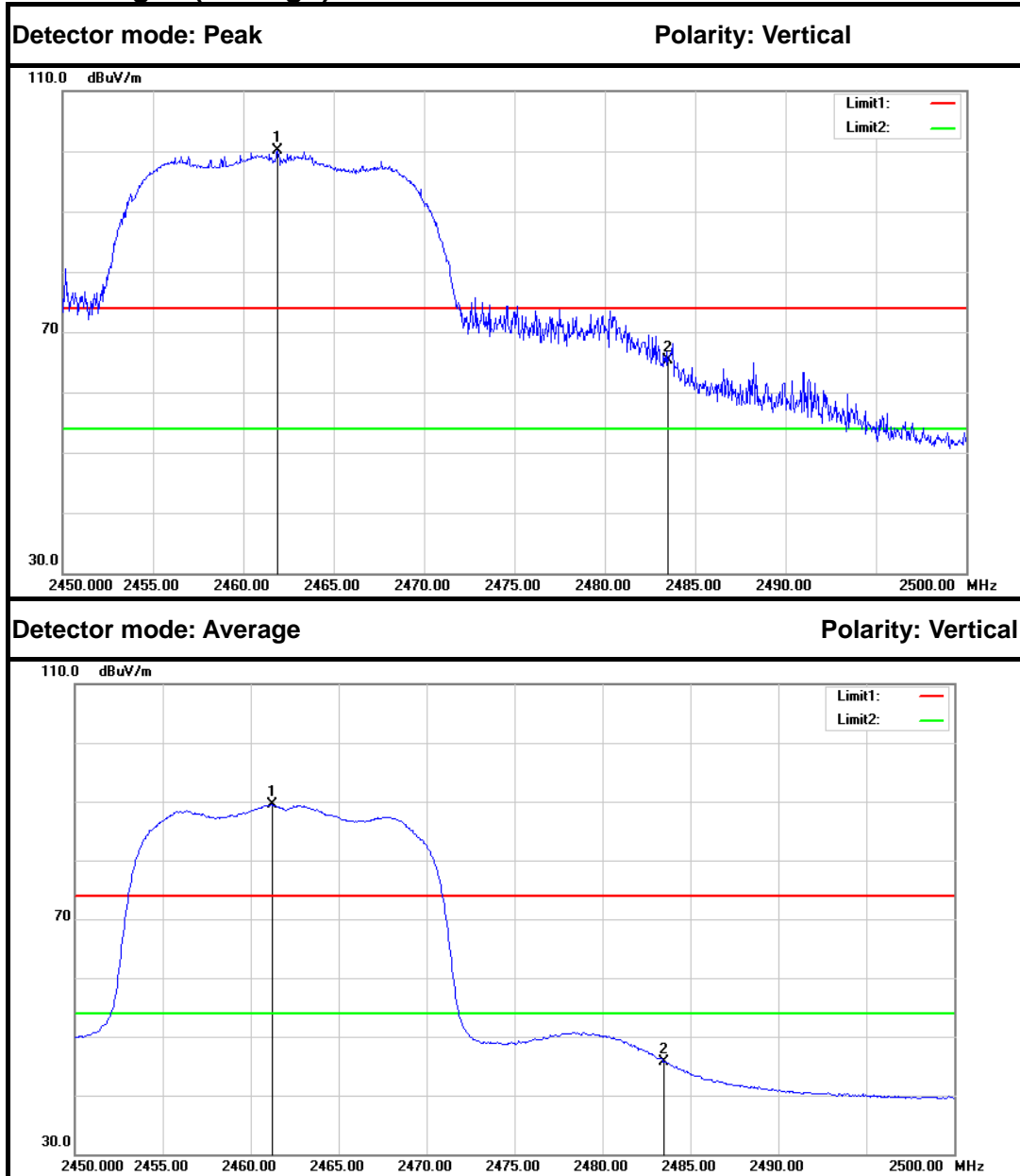
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	69.68	-2.86	66.82	74.00	-7.18	Peak	Horizontal
2	2411.880	108.24	-2.74	105.50	---	---	Peak	Horizontal
1	2390.000	52.56	-2.86	49.70	54.00	-4.30	Average	Horizontal
2	2413.080	97.15	-2.74	94.41	---	---	Average	Horizontal



Band Edges (CH High)

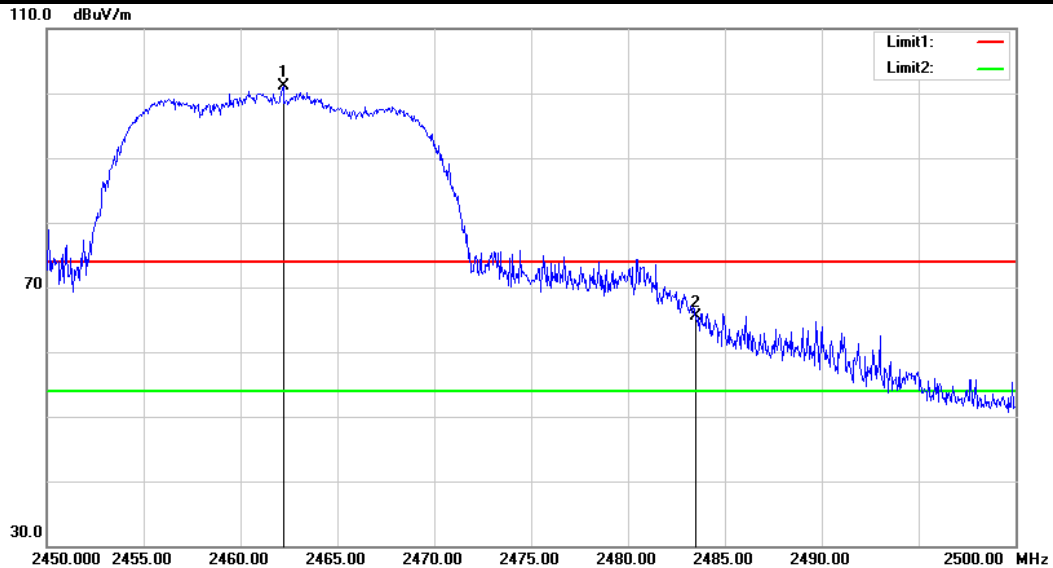


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2461.900	102.52	-2.47	100.05	---	---	Peak	Vertical
2	2483.500	67.72	-2.35	65.37	74.00	-8.63	Peak	Vertical
1	2461.200	91.97	-2.47	89.50	---	---	Average	Vertical
2	2483.500	47.97	-2.35	45.62	54.00	-8.38	Average	Vertical



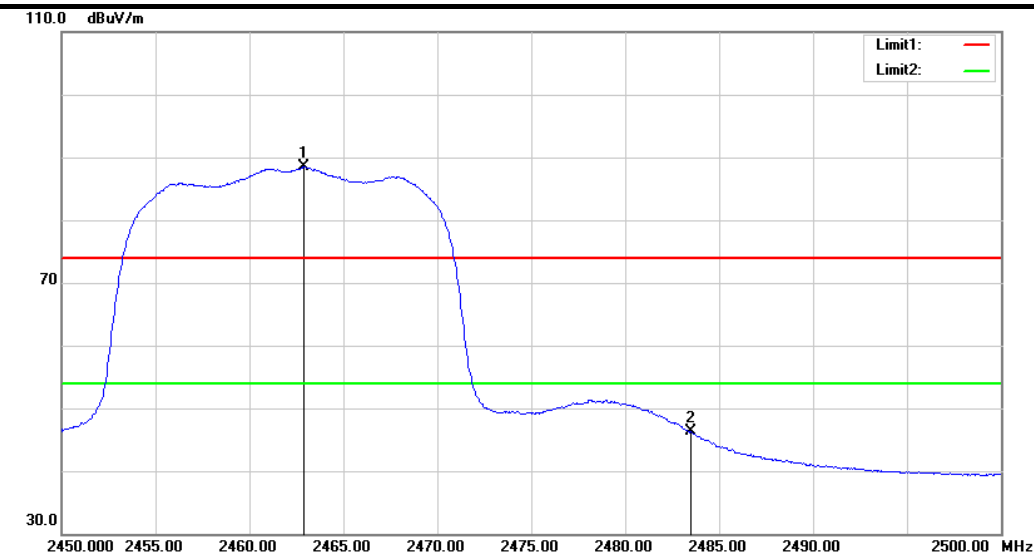
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

Polarity: Horizontal

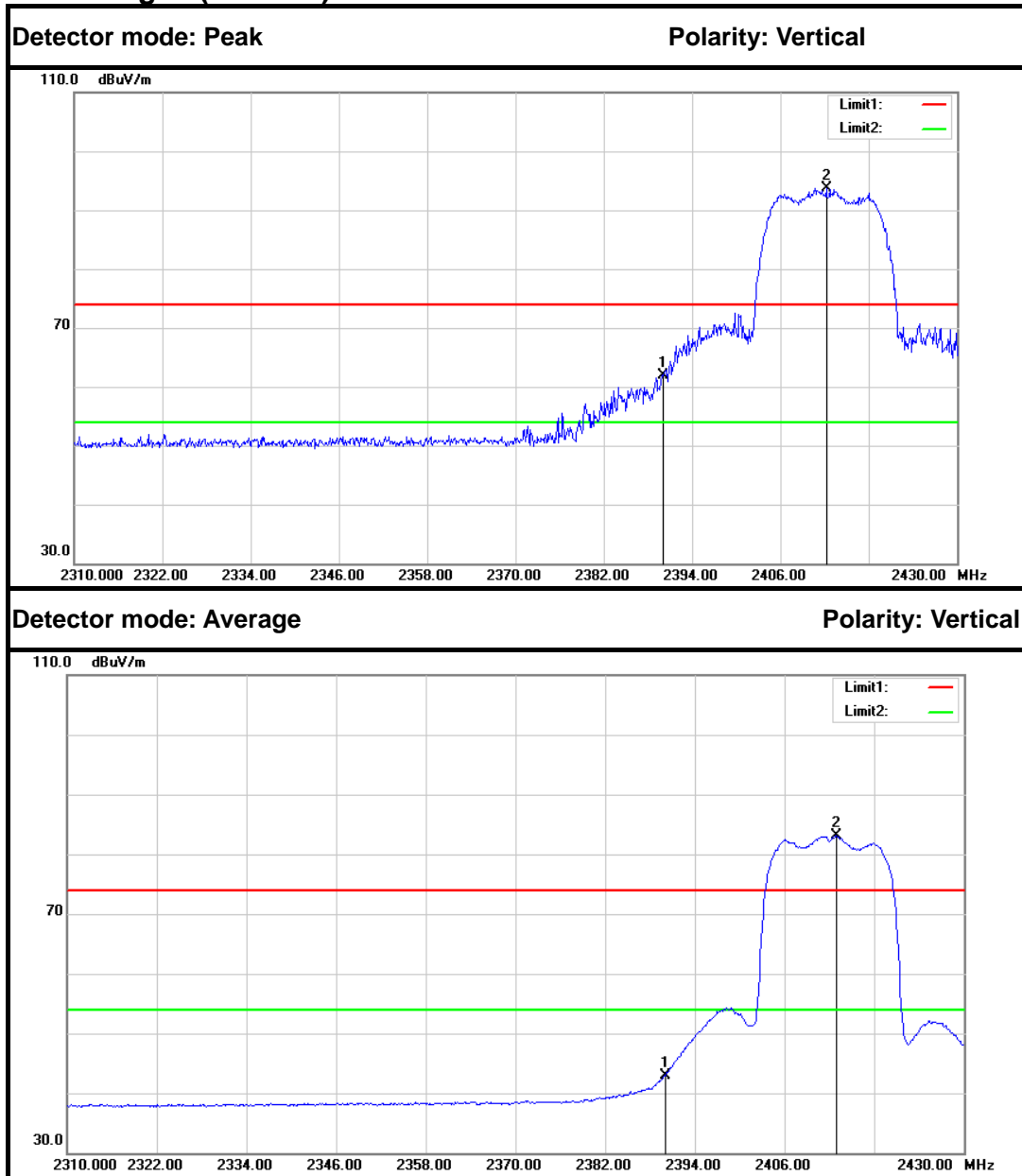


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2462.200	103.49	-2.47	101.02			Peak	Horizontal
2	2483.500	67.89	-2.35	65.54	74.00	-8.46	Peak	Horizontal
1	2462.900	90.95	-2.46	88.49			Average	Horizontal
2	2483.500	48.60	-2.35	46.25	54.00	-7.75	Average	Horizontal



IEEE 802.11g mode (Antenna 1)

Band Edges (CH Low)

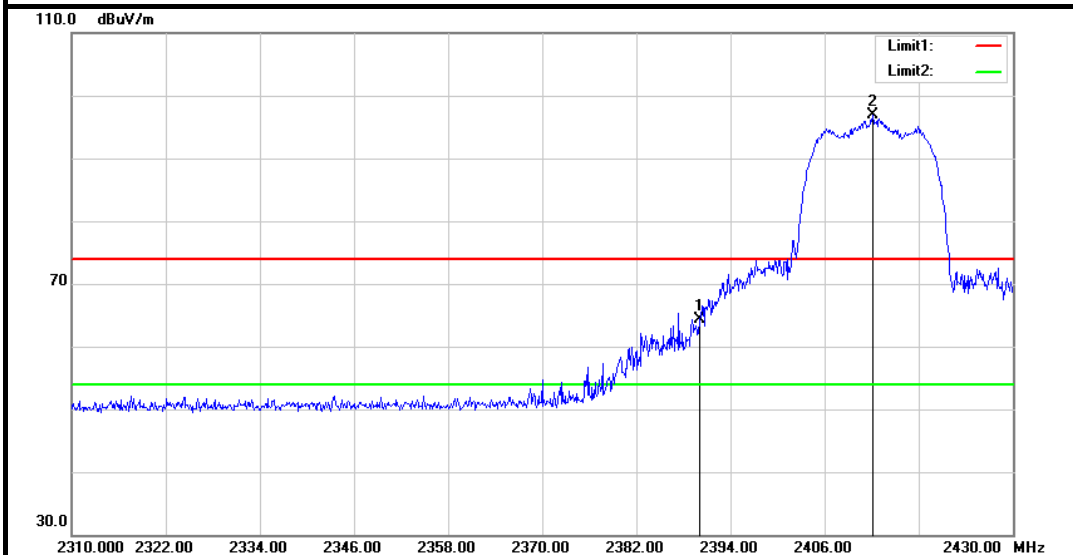


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	64.83	-2.86	61.97	74.00	-12.03	Peak	Vertical
2	2412.240	96.47	-2.74	93.73	---	---	Peak	Vertical
1	2390.000	45.78	-2.86	42.92	54.00	-11.08	Average	Vertical
2	2412.960	85.77	-2.74	83.03	---	---	Average	Vertical



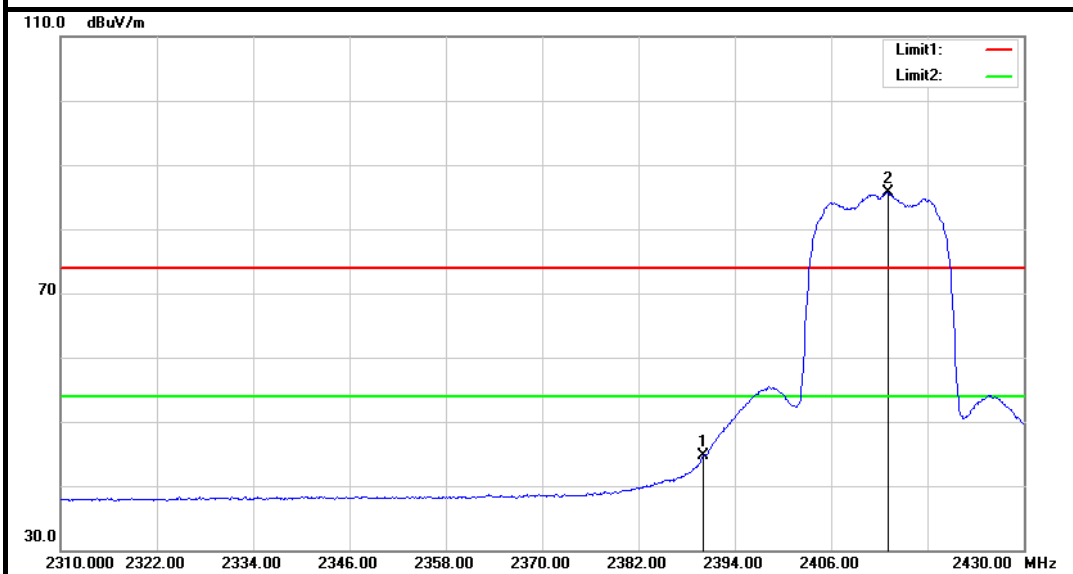
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

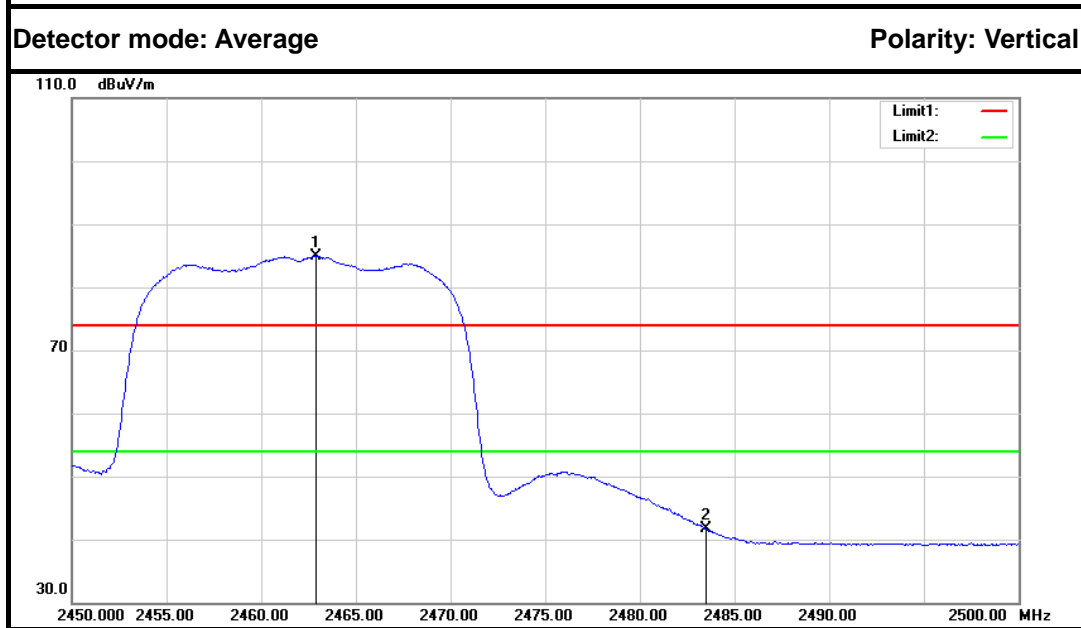
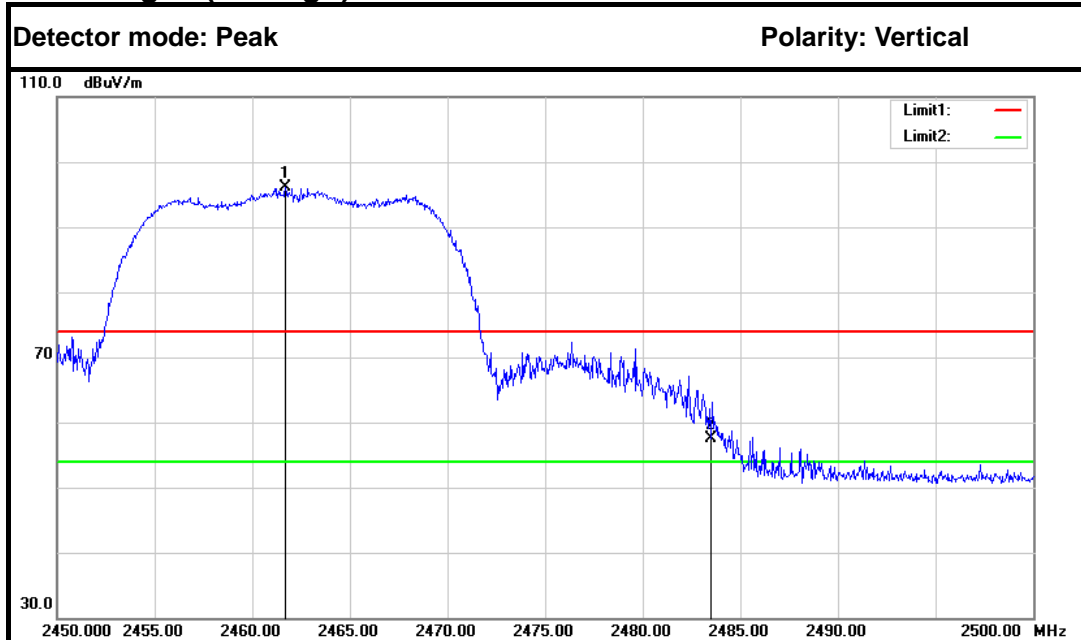
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	67.19	-2.86	64.33	74.00	-9.67	Peak	Horizontal
2	2412.120	99.70	-2.74	96.96	---	---	Peak	Horizontal
1	2390.000	47.47	-2.86	44.61	54.00	-9.39	Average	Horizontal
2	2413.080	88.37	-2.74	85.63	---	---	Average	Horizontal



Band Edges (CH High)

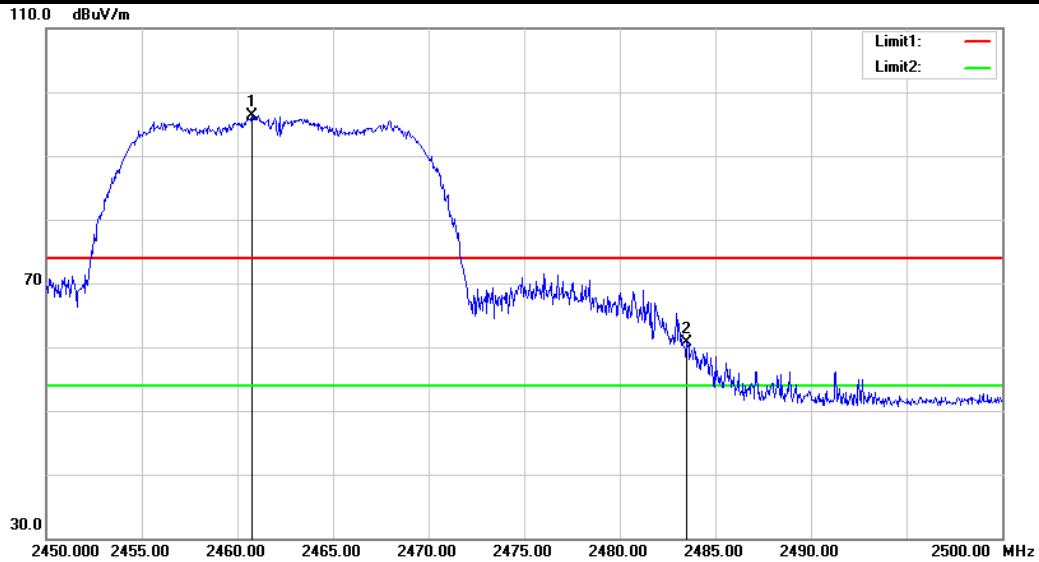


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2461.700	98.65	-2.47	96.18	---	---	Peak	Vertical
2	2483.500	59.80	-2.35	57.45	74.00	-16.55	Peak	Vertical
1	2462.900	87.41	-2.46	84.95	---	---	Average	Vertical
2	2483.500	44.01	-2.35	41.66	54.00	-12.34	Average	Vertical



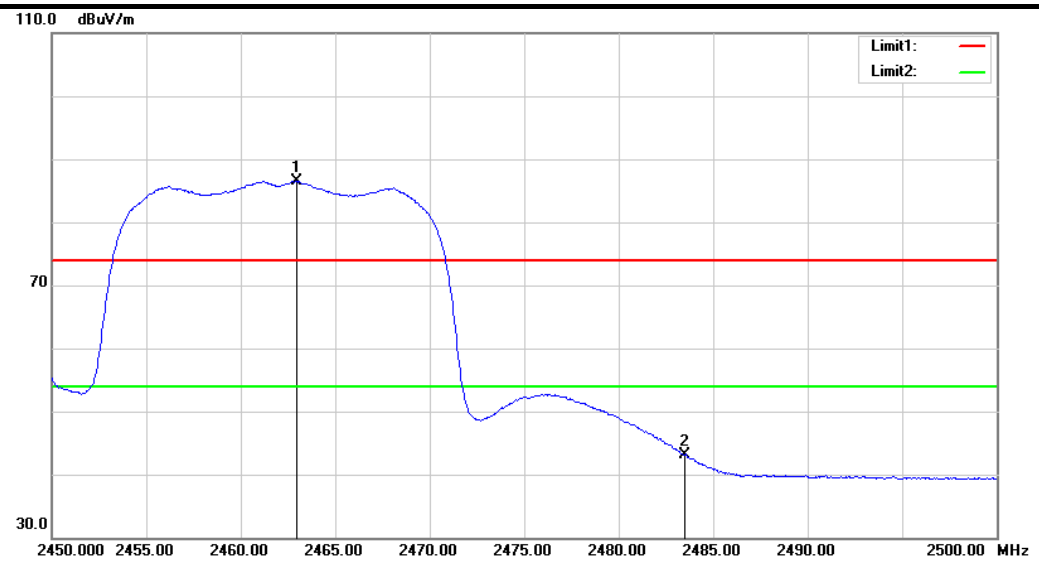
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

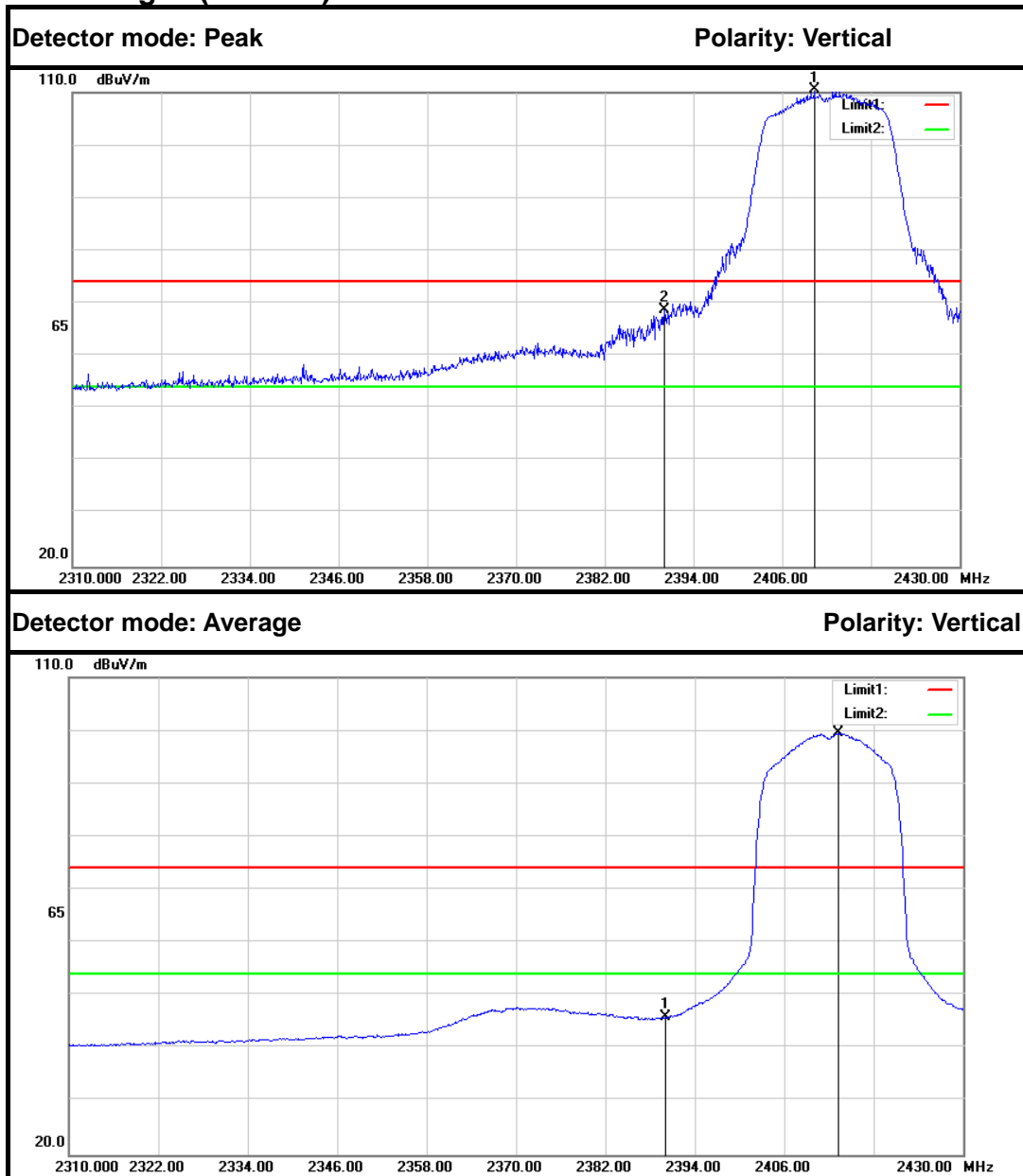
Polarity: Horizontal



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2460.750	98.81	-2.47	96.34	---	---	Peak	Horizontal
2	2483.500	62.97	-2.35	60.62	74.00	-13.38	Peak	Horizontal
1	2462.950	88.95	-2.46	86.49	---	---	Average	Horizontal
2	2483.500	45.49	-2.35	43.14	54.00	-10.86	Average	Horizontal



IEEE 802.11n HT20 MHz mode (Combine with Antenna 0 and Antenna 1)
Band Edges (CH Low)

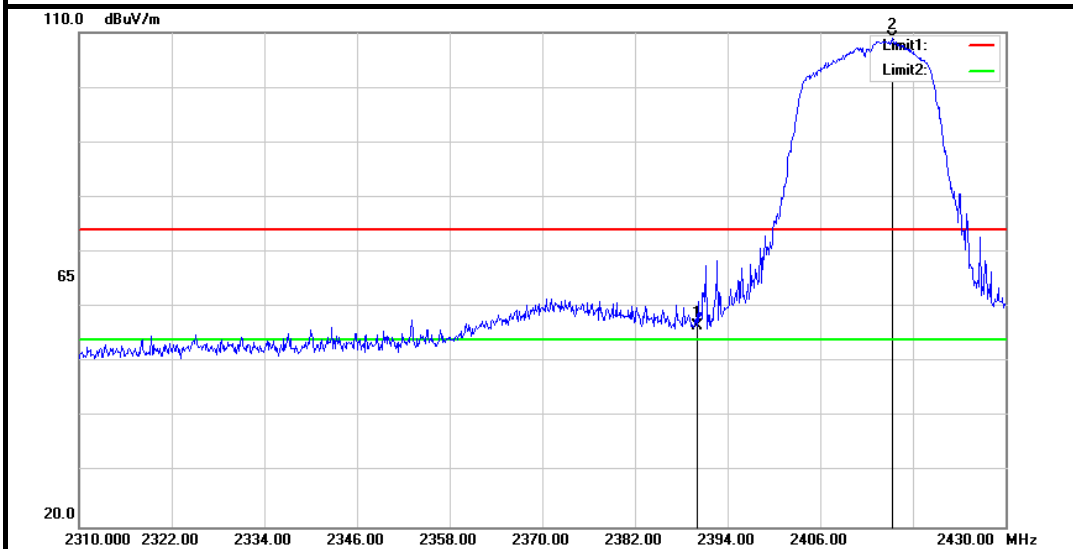


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2410.320	113.30	-2.75	110.55	---	---	Peak	Vertical
2	2390.000	71.47	-2.86	68.61	74.00	-5.39	Peak	Vertical
1	2390.000	48.76	-2.86	45.90	54.00	-8.10	Average	Vertical
2	2413.200	102.20	-2.74	99.46	---	---	Average	Vertical



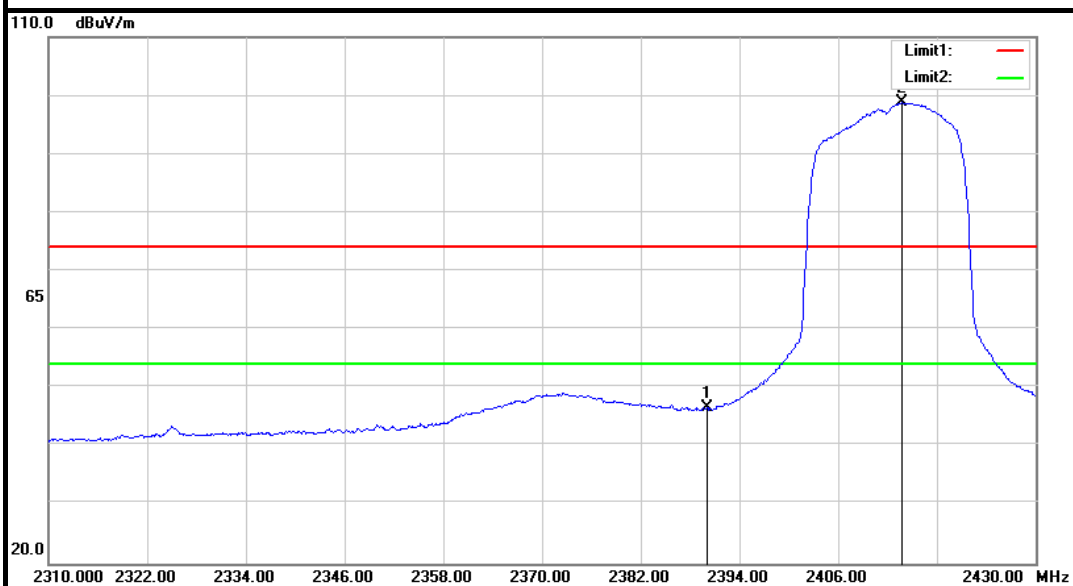
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

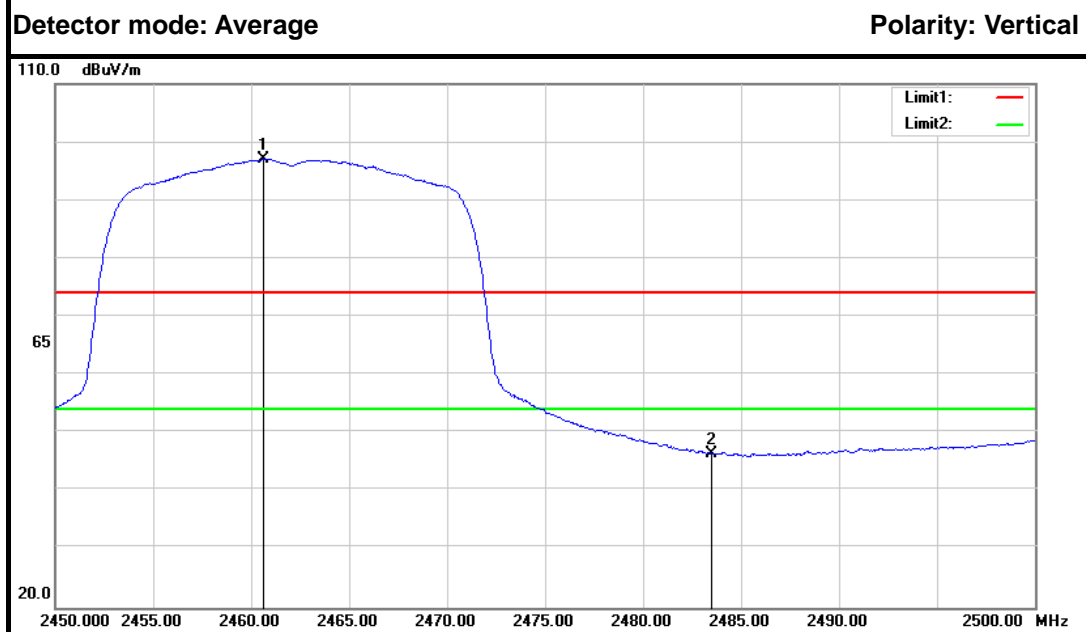
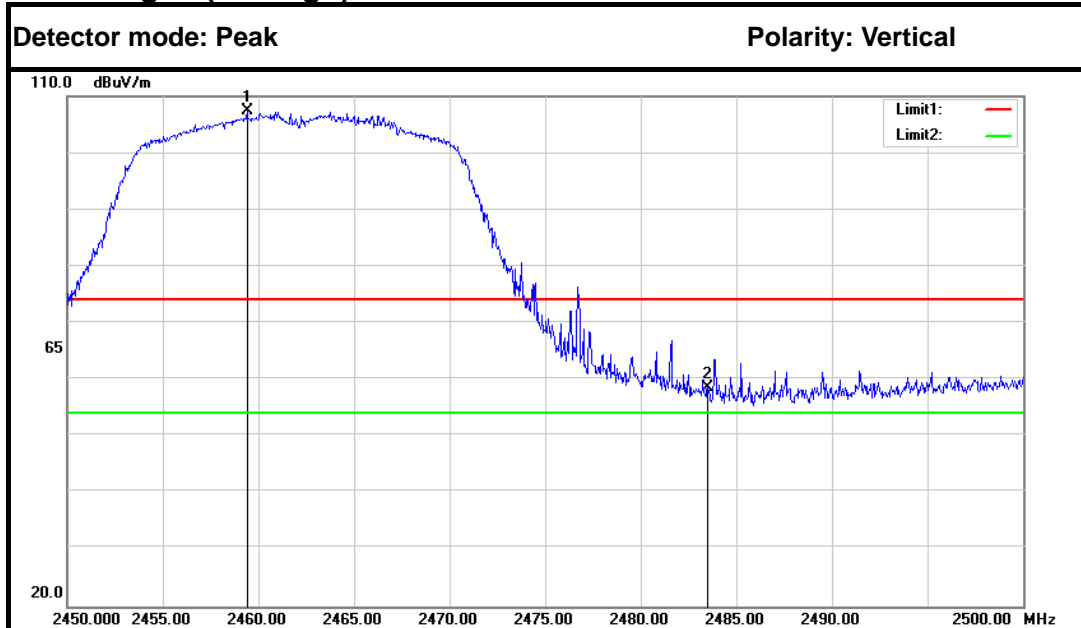
Polarity: Horizontal



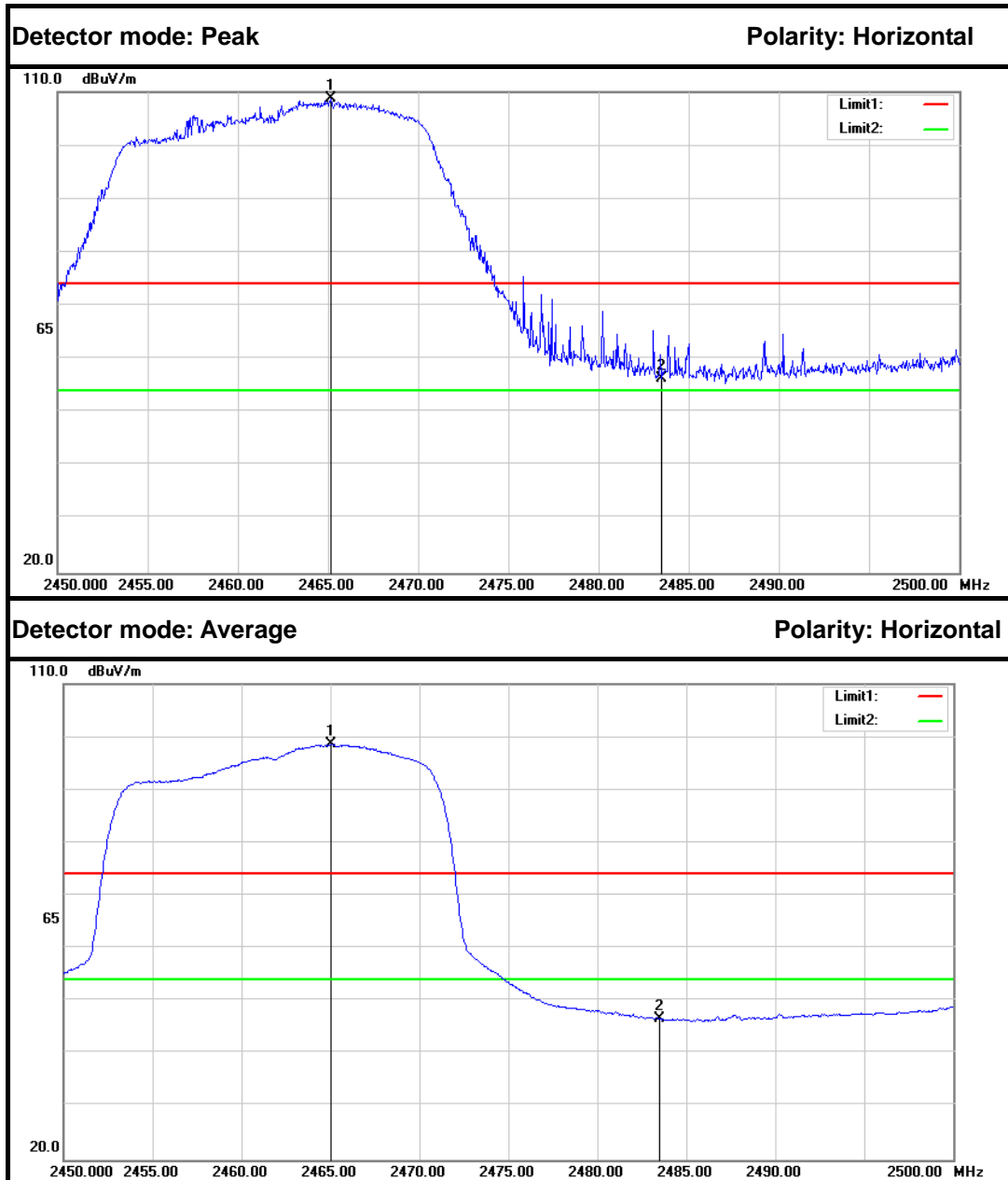
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	59.35	-2.86	56.49	74.00	-17.51	Peak	Horizontal
2	2415.360	111.80	-2.72	109.08	---	---	Peak	Horizontal
1	2390.000	49.48	-2.86	46.62	54.00	-7.38	Average	Horizontal
2	2413.800	101.55	-2.73	98.82	---	---	Average	Horizontal



Band Edges (CH High)



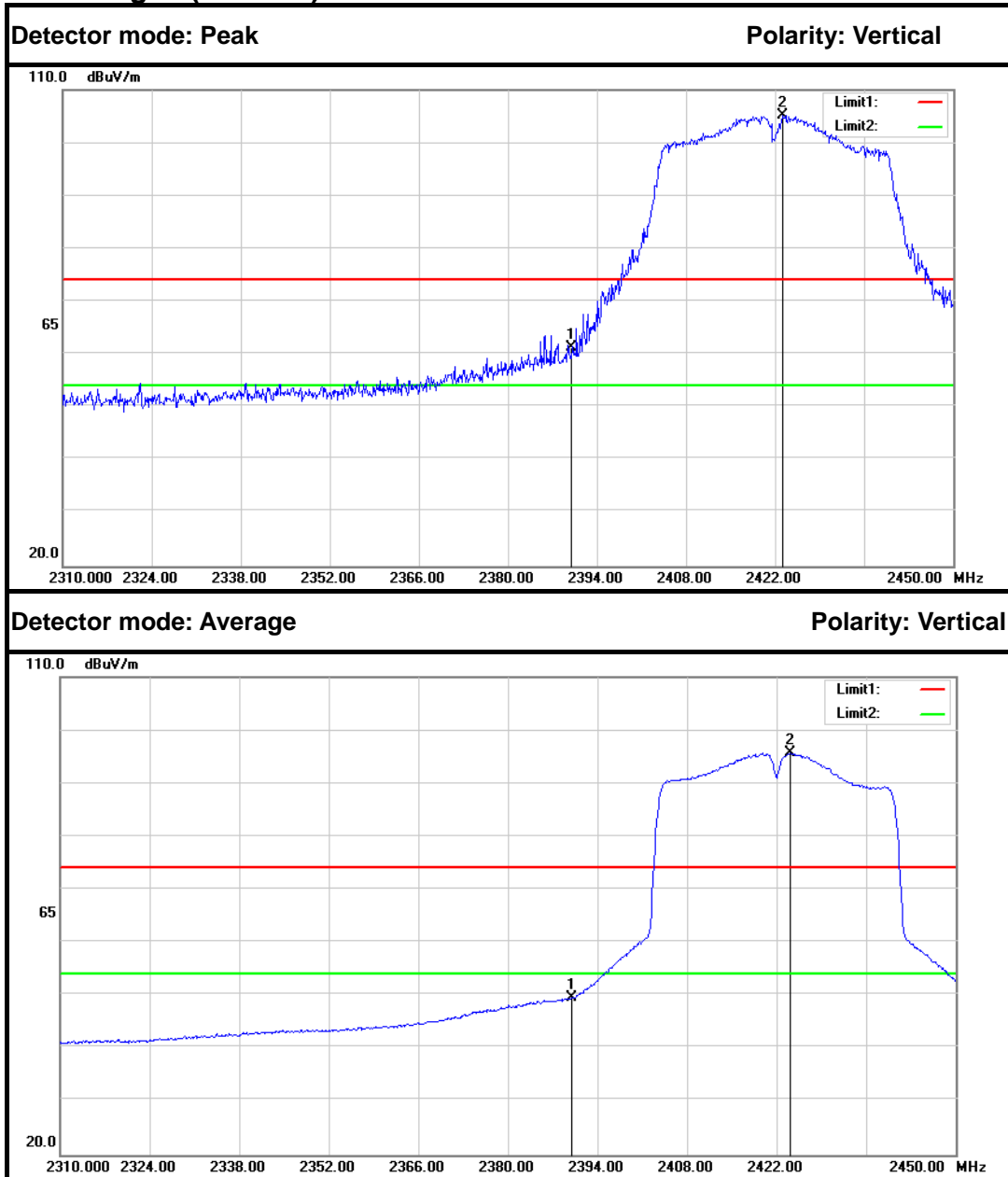
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2459.400	109.80	-2.48	107.32	---	---	Peak	Vertical
2	2483.500	60.90	-2.35	58.55	74.00	-15.45	Peak	Vertical
1	2460.600	99.59	-2.48	97.11	---	---	Average	Vertical
2	2483.500	48.75	-2.35	46.40	54.00	-7.60	Average	Vertical



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2465.150	111.32	-2.45	108.87	---	---	Peak	Horizontal
2	2483.500	58.66	-2.35	56.31	74.00	-17.69	Peak	Horizontal
1	2465.050	101.07	-2.45	98.62	---	---	Average	Horizontal
2	2483.500	49.01	-2.35	46.66	54.00	-7.34	Average	Horizontal



IEEE 802.11n HT40 MHz mode (Combine with Antenna 0 and Antenna 1)
Band Edges (CH Low)

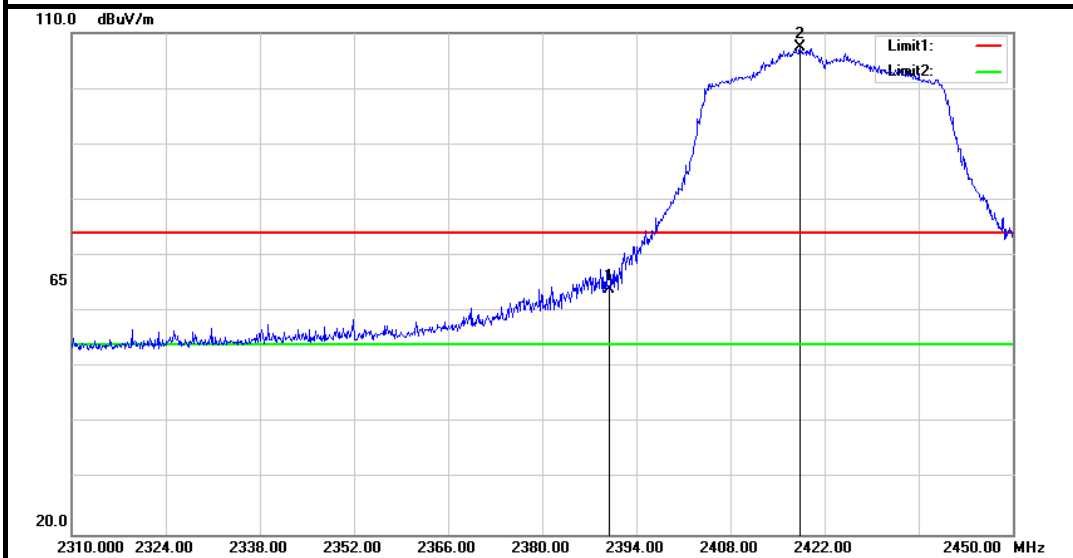


No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	64.23	-2.86	61.37	74.00	-12.63	Peak	Vertical
2	2423.260	107.94	-2.68	105.26	---	---	Peak	Vertical
1	2390.000	52.48	-2.86	49.62	54.00	-4.38	Average	Vertical
2	2424.100	98.37	-2.68	95.69	---	---	Average	Vertical



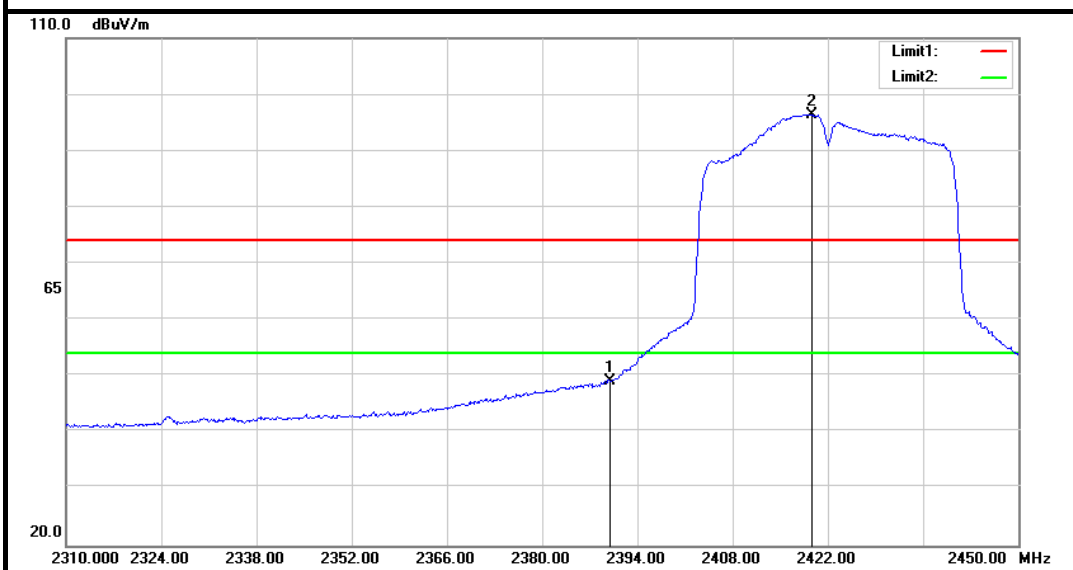
Detector mode: Peak

Polarity: Horizontal



Detector mode: Average

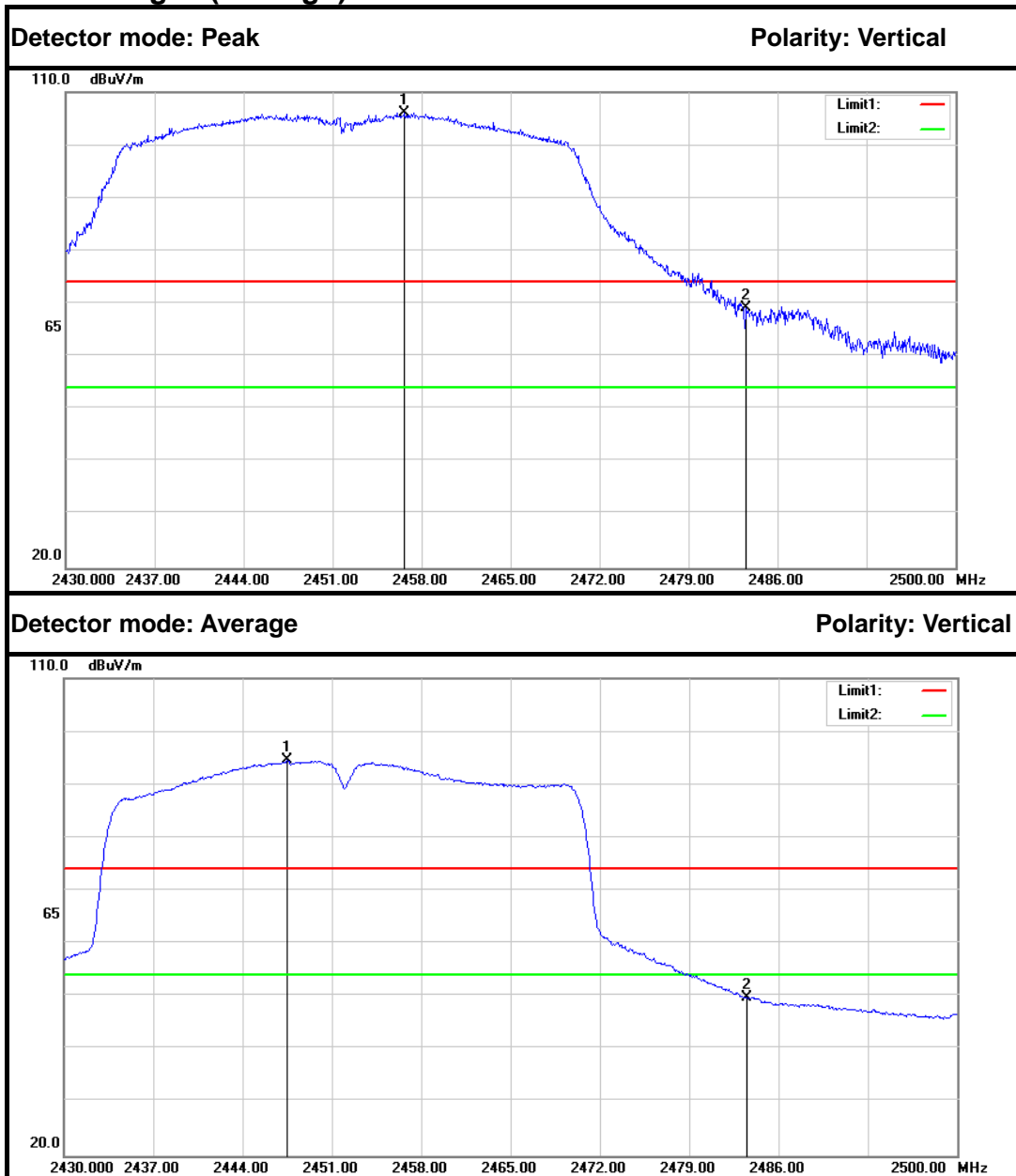
Polarity: Horizontal



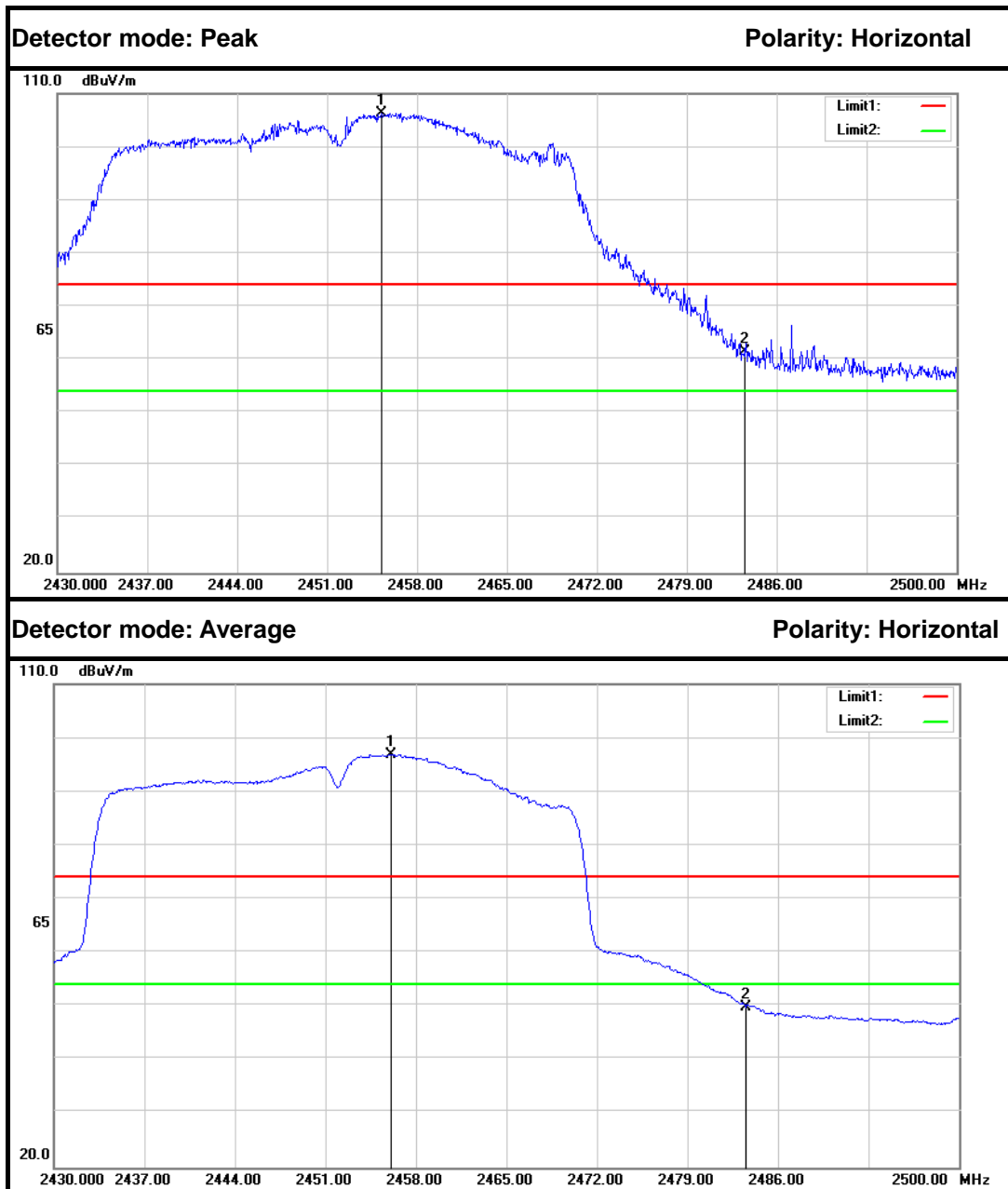
No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2390.000	66.88	-2.86	64.02	74.00	-9.98	Peak	Horizontal
2	2418.360	110.07	-2.71	107.36	---	---	Peak	Horizontal
1	2390.000	52.06	-2.86	49.20	54.00	-4.80	Average	Horizontal
2	2419.620	99.15	-2.70	96.45	---	---	Average	Horizontal



Band Edges (CH High)



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2456.670	108.61	-2.50	106.11	---	---	Peak	Vertical
2	2483.500	71.42	-2.35	69.07	74.00	-4.93	Peak	Vertical
1	2447.500	97.03	-2.55	94.48	---	---	Average	Vertical
2	2483.500	52.15	-2.35	49.80	54.00	-4.20	Average	Vertical



No.	Frequency (MHz)	Reading (dB)	Factor (dB/m)	Result (dB/m)	Limit (dB/m)	Margin (dB)	Remark	Antenna Polar
1	2455.270	108.87	-2.51	106.36	---	---	Peak	Horizontal
2	2483.500	63.83	-2.35	61.48	74.00	-12.52	Peak	Horizontal
1	2456.040	99.37	-2.50	96.87	---	---	Average	Horizontal
2	2483.500	52.23	-2.35	49.88	54.00	-4.12	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	02/21/2017	02/20/2018

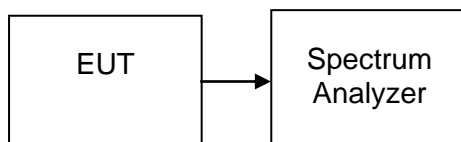
7.7.3. TEST PROCEDURES (please refer to measurement standard)

§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	-9.162	8	PASS
Mid	2437	-10.110		PASS
High	2462	-11.667		PASS

Test mode: IEEE 802.11b (Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-8.956	8	PASS
Mid	2437	-8.384		PASS
High	2462	-10.623		PASS

Test mode: IEEE 802.11g (Antenna 0)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-14.098	8	PASS
Mid	2437	-15.042		PASS
High	2462	-16.445		PASS

Test mode: IEEE 802.11g (Antenna 1)

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Test Result
Low	2412	-15.843	8	PASS
Mid	2437	-16.323		PASS
High	2462	-15.653		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	-17.644	-16.086	-13.785	8	PASS
Mid	2437	-18.036	-16.547	-14.218		PASS
High	2462	-18.805	-16.750	-14.647		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	-21.544	-20.090	-17.746	8	PASS
Mid	2437	-21.683	-20.570	-18.081		PASS
High	2452	-21.834	-21.352	-18.576		PASS



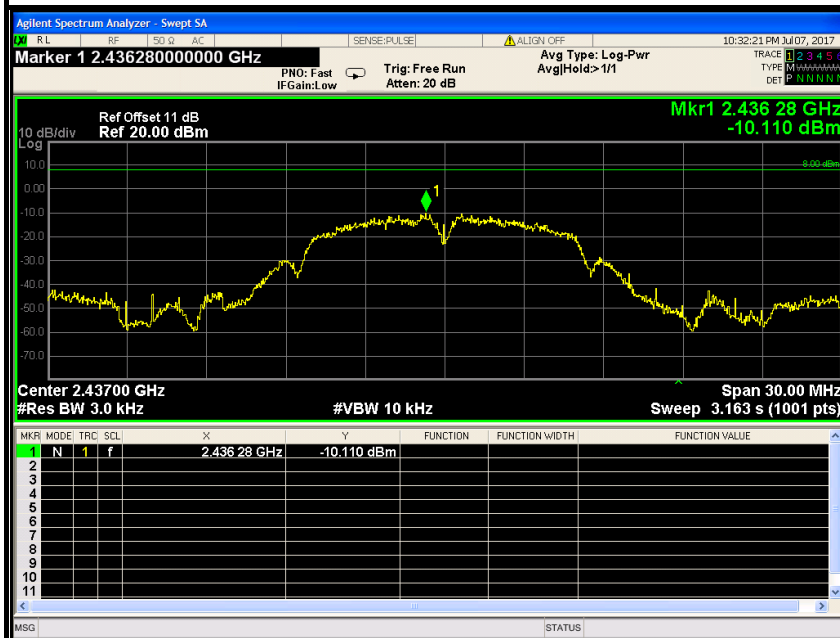
Test Plot

IEEE 802.11b mode (Antenna 0)

PPSD (CH Low)

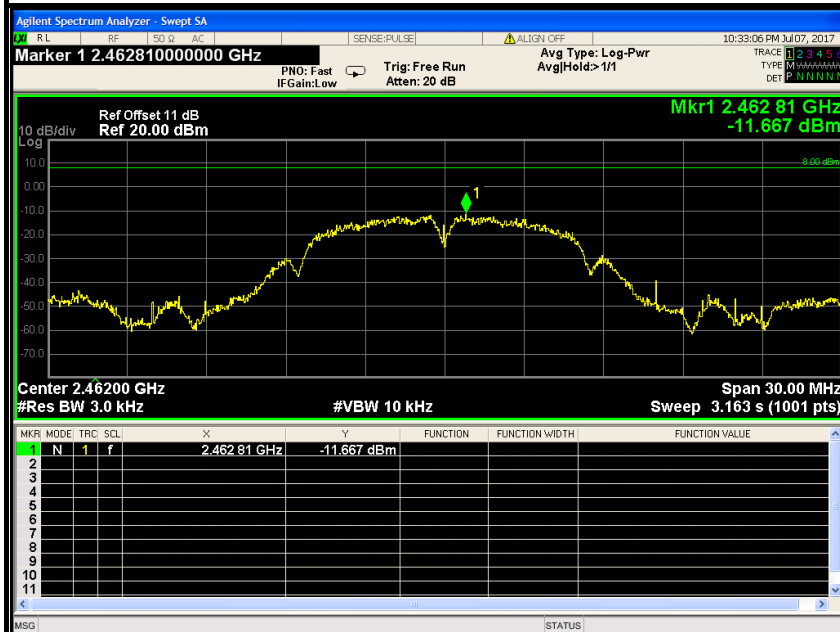


PPSD (CH Mid)





PPSD (CH High)



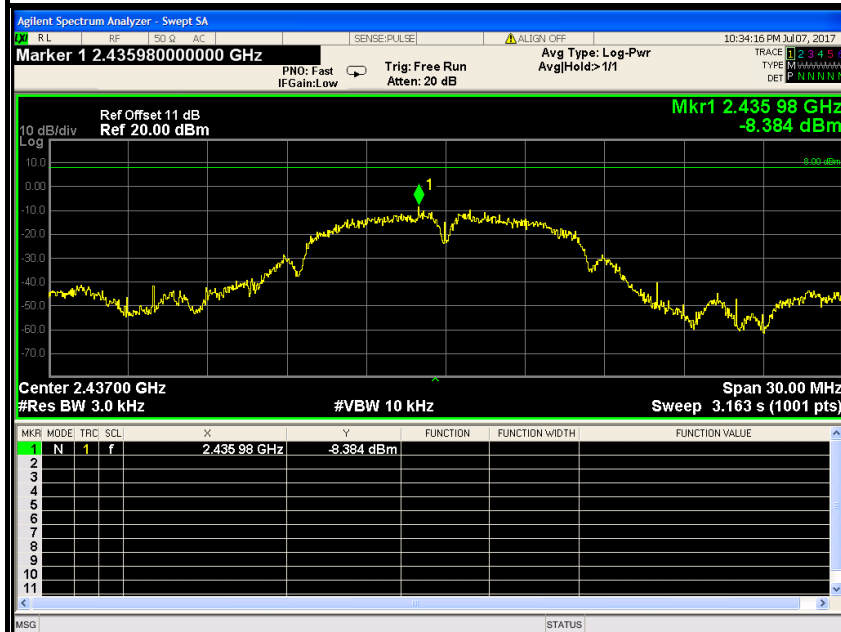
IEEE 802.11b mode (Antenna 1)

PPSD (CH Low)

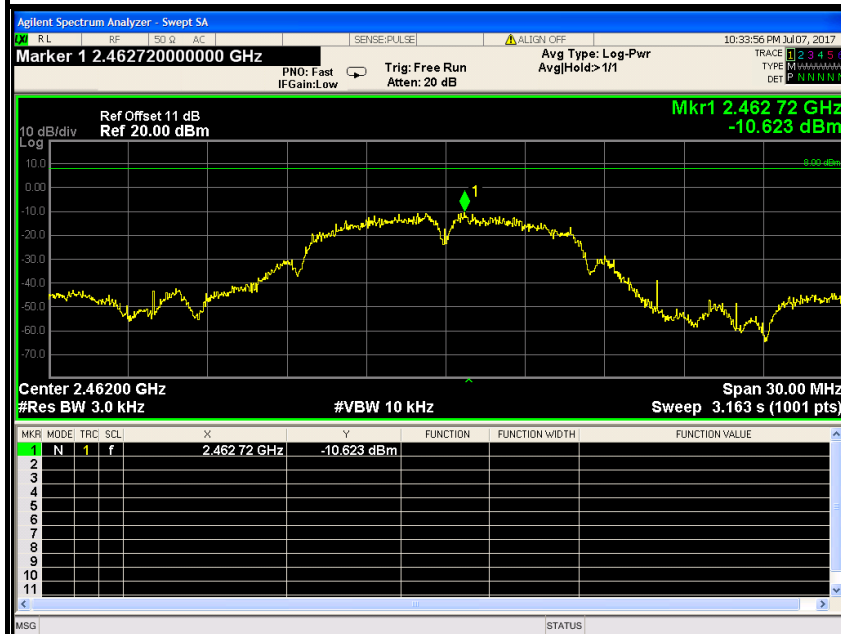




PPSD (CH Mid)



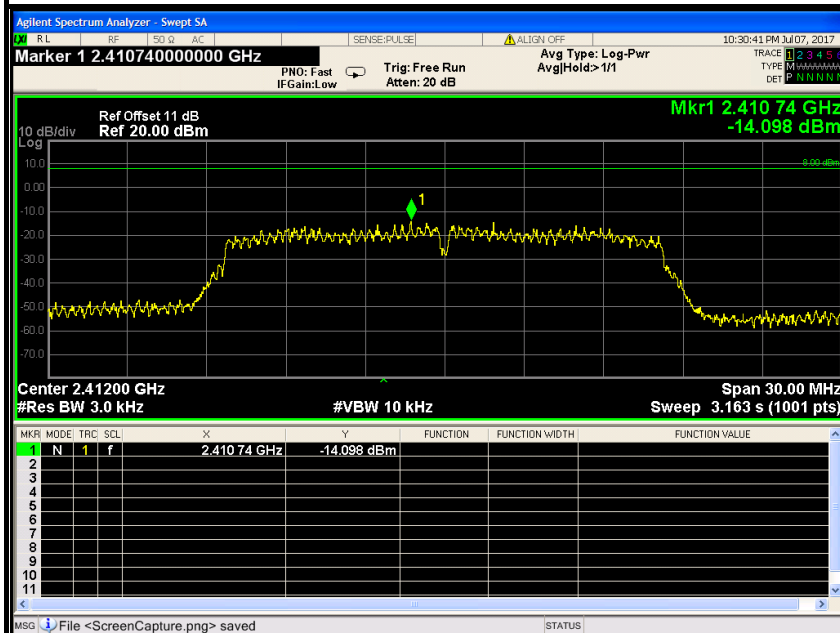
PPSD (CH High)



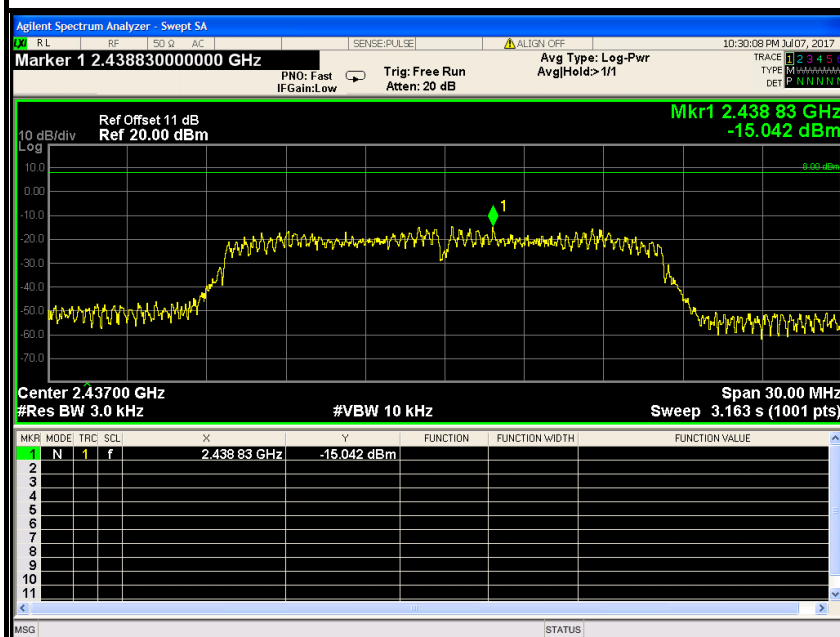


IEEE 802.11g mode (Antenna 0)

PPSD (CH Low)

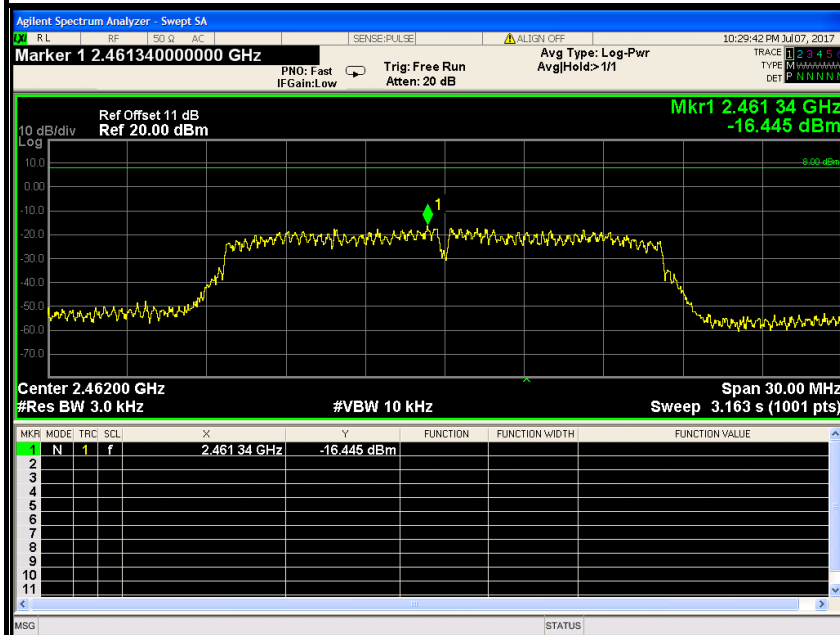


PPSD (CH Mid)



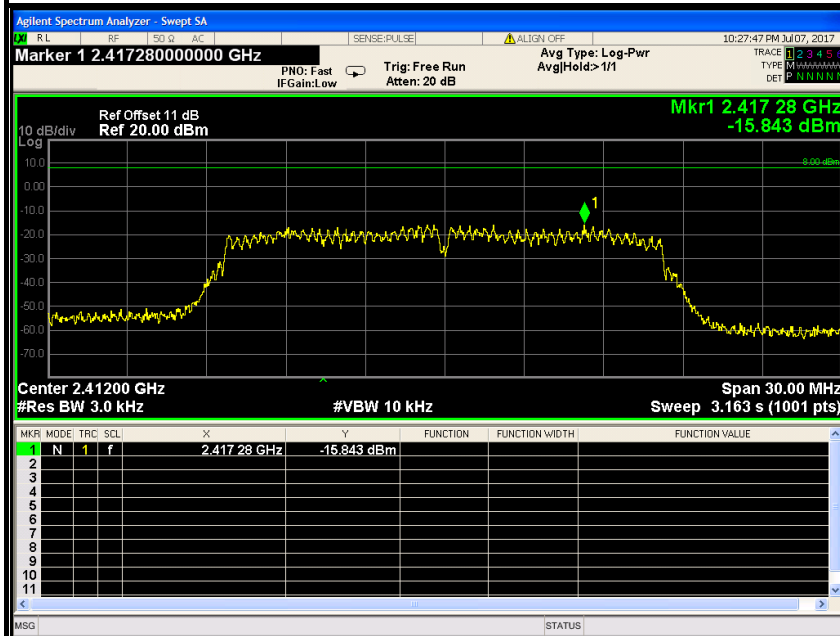


PPSD (CH High)



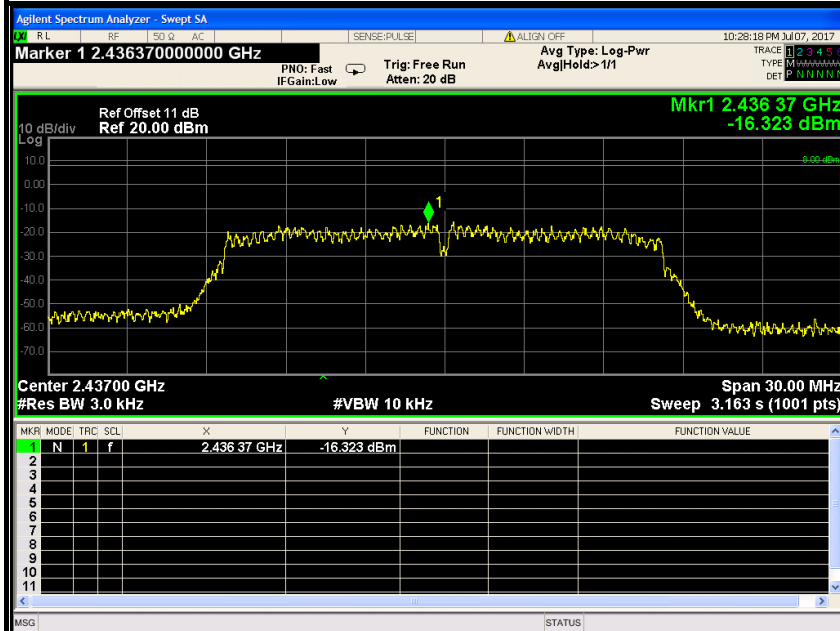
IEEE 802.11g mode (Antenna 1)

PPSD (CH Low)

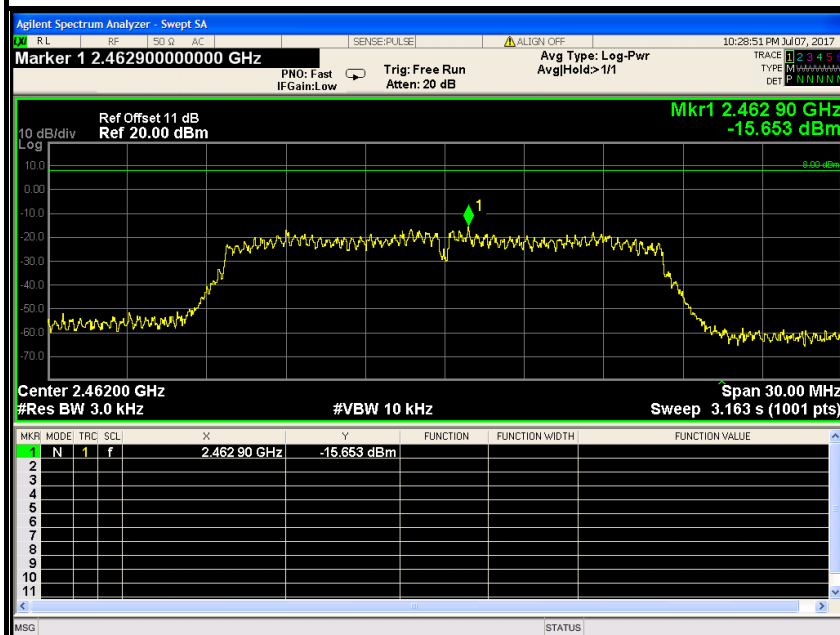




PPSD (CH Mid)



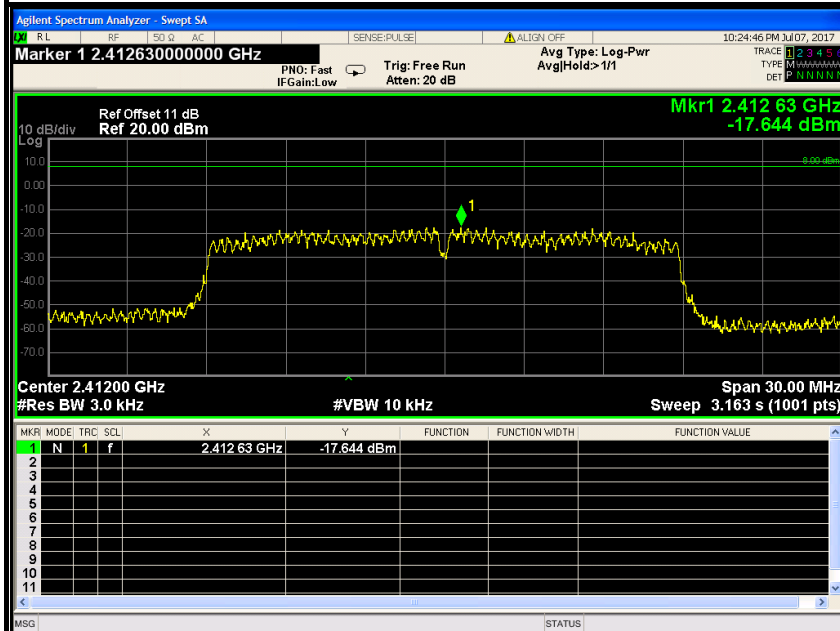
PPSD (CH High)



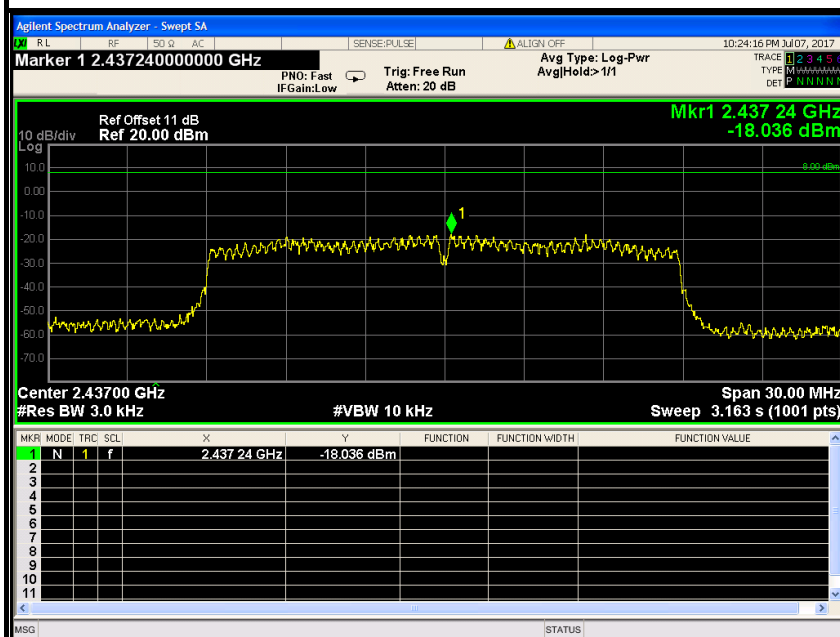


IEEE 802.11n HT20 MHz mode (Antenna 0)

PPSD (CH Low)

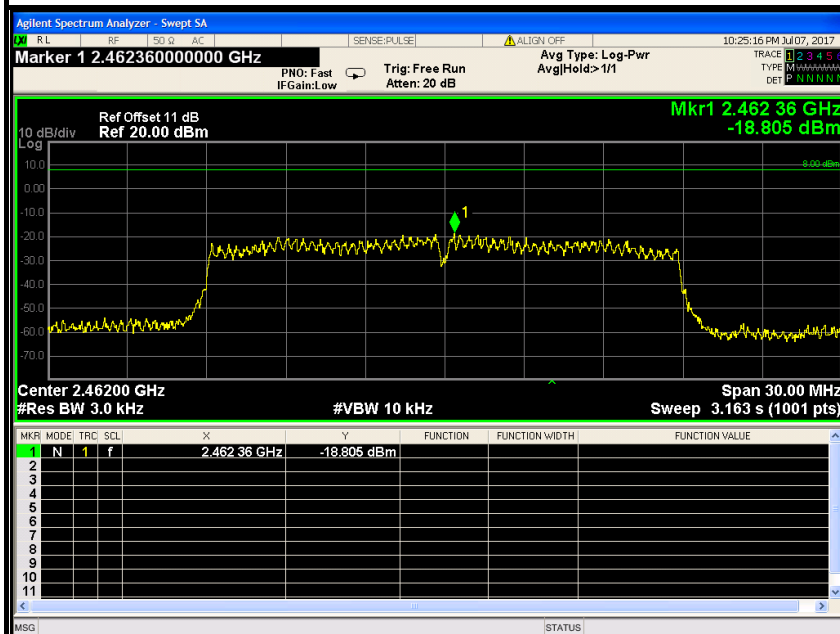


PPSD (CH Mid)



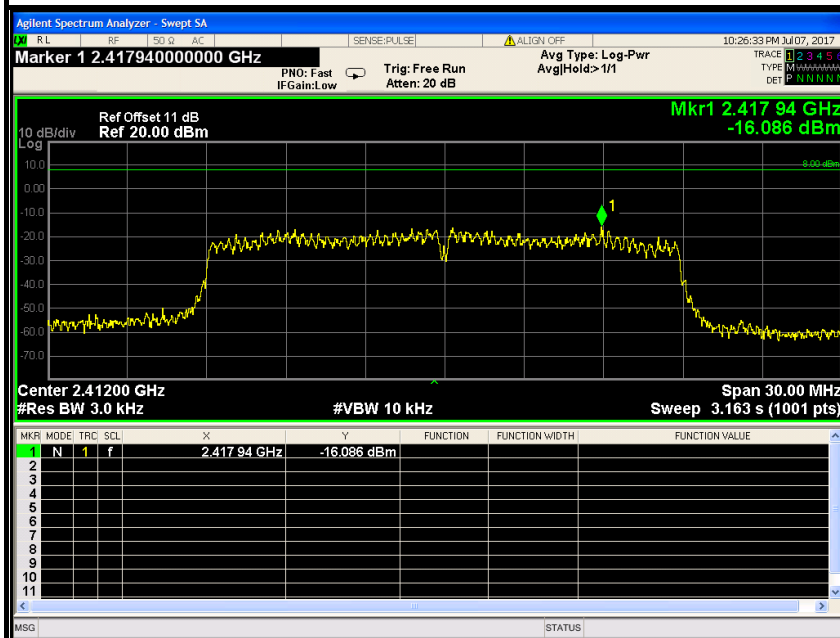


PPSD (CH High)



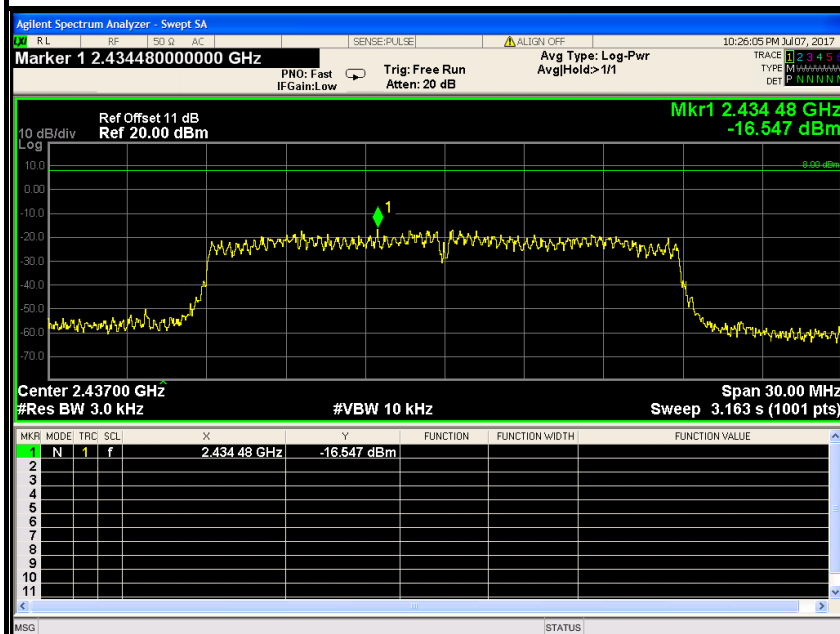
IEEE 802.11n HT20 MHz mode (Antenna 1)

PPSD (CH Low)

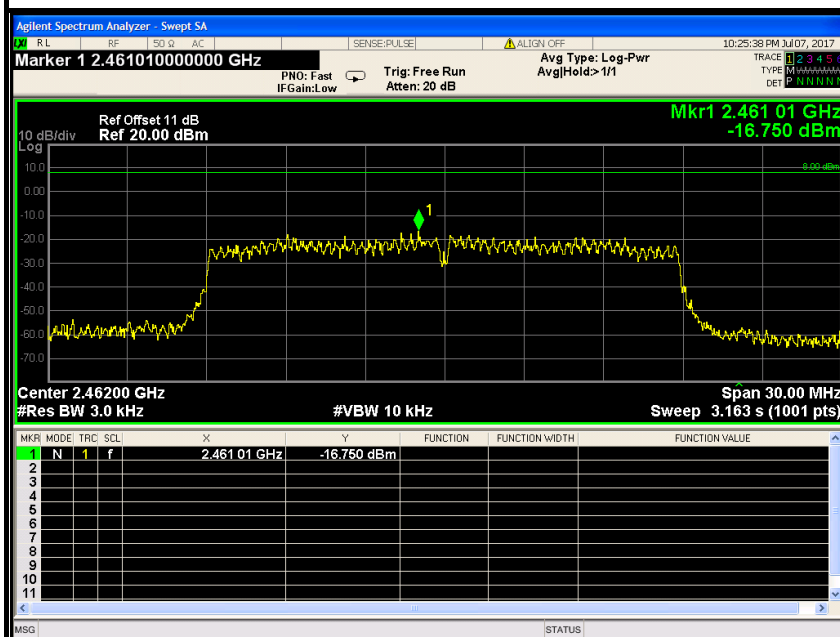




PPSD (CH Mid)



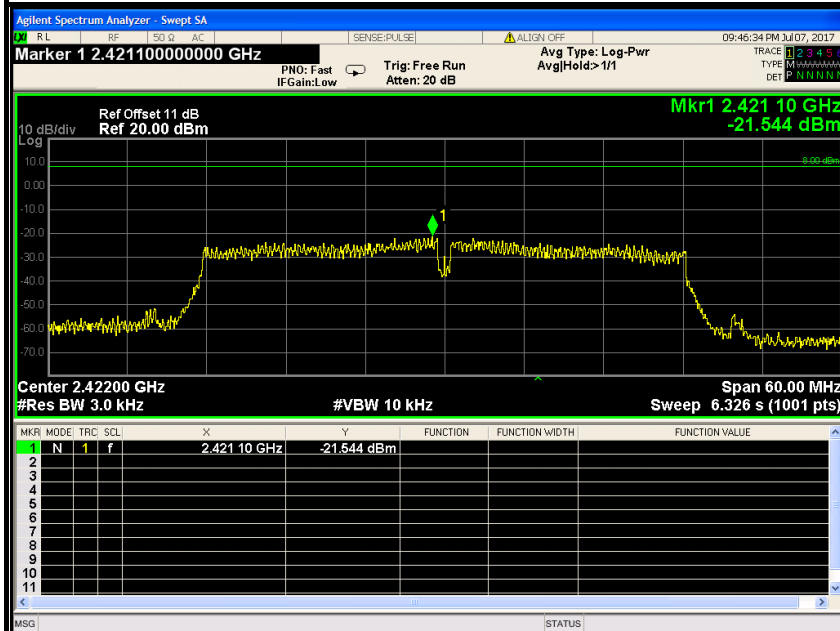
PPSD (CH High)



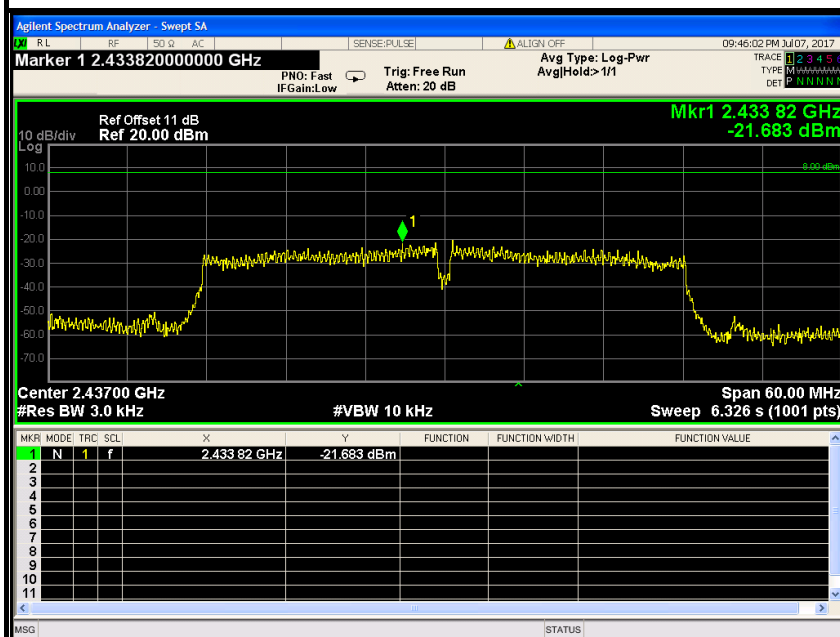


IEEE 802.11n HT40 MHz mode (Antenna 0)

PPSD (CH Low)

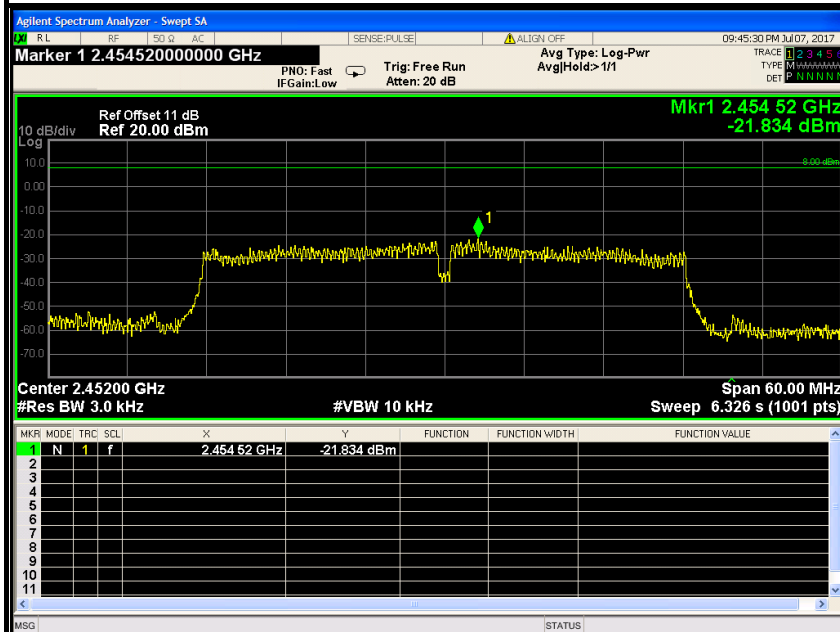


PPSD (CH Mid)



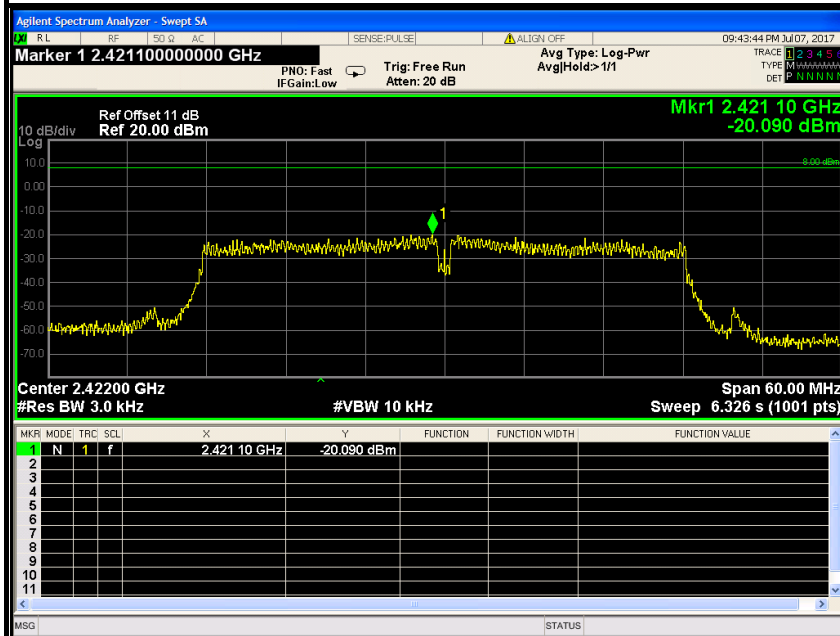


PPSD (CH High)



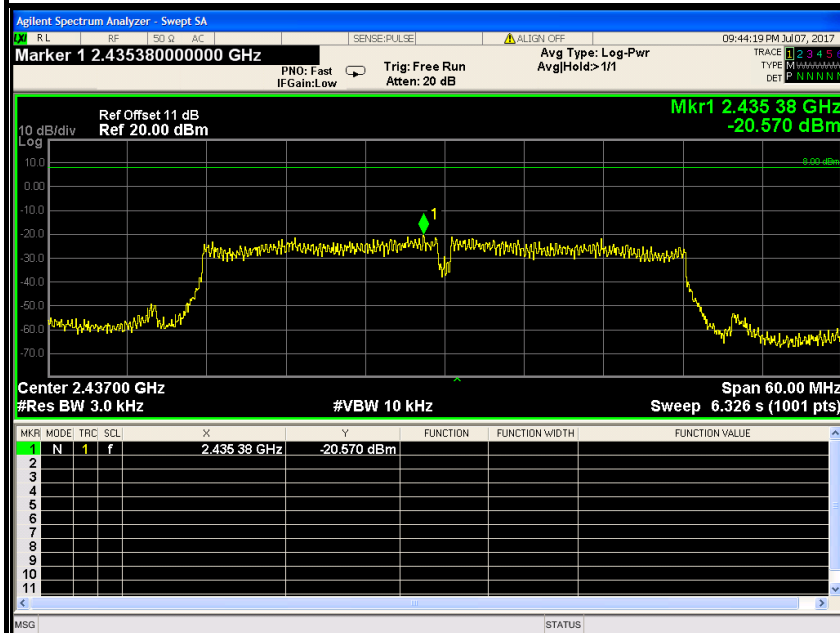
IEEE 802.11n HT40 MHz mode (Antenna 1)

PPSD (CH Low)





PPSD (CH Mid)



PPSD (CH High)

