

• **Mode 802.11 n40**

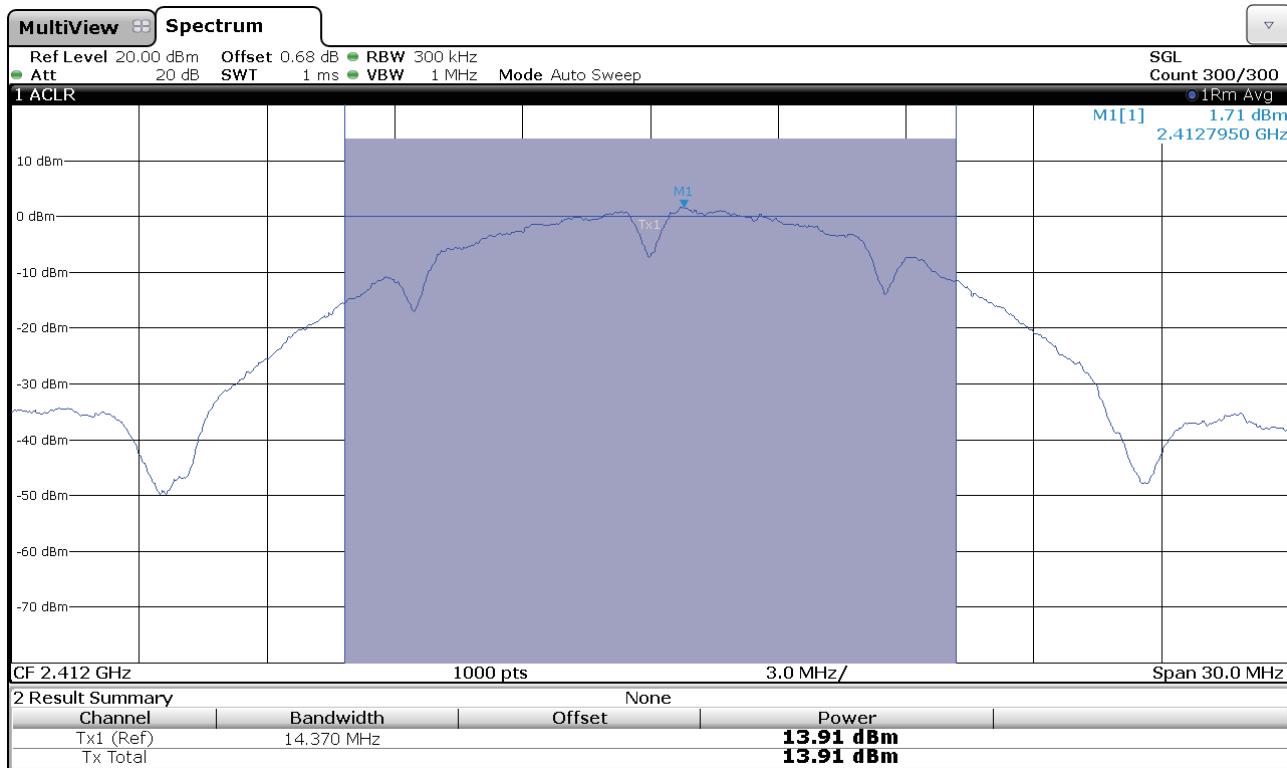
	Low Channel 2422 MHz		Middle Channel 2437 MHz		High Channel 2452 MHz	
	CHAIN0	CHAIN1	CHAIN0	CHAIN1	CHAIN0	CHAIN1
Maximum Average Conducted Power (dBm)	9.94	10.35	9.88	10.65	9.83	10.31
Duty Cycle Correction Factor (dB)	0.315		0.315		0.315	
Maximum Average Conducted Power corrected (dBm)	10.26	10.67	10.20	10.97	10.15	10.63
	CHAIN0 + CHAIN1		CHAIN0 + CHAIN1		CHAIN0 + CHAIN1	
Maximum Average Conducted Power (dBm)	13.48		13.61		13.40	
Maximum EIRP Power (dBm)	16.47		16.60		16.40	
Measurement uncertainty (dB)	<±1.20					

Verdict: PASS

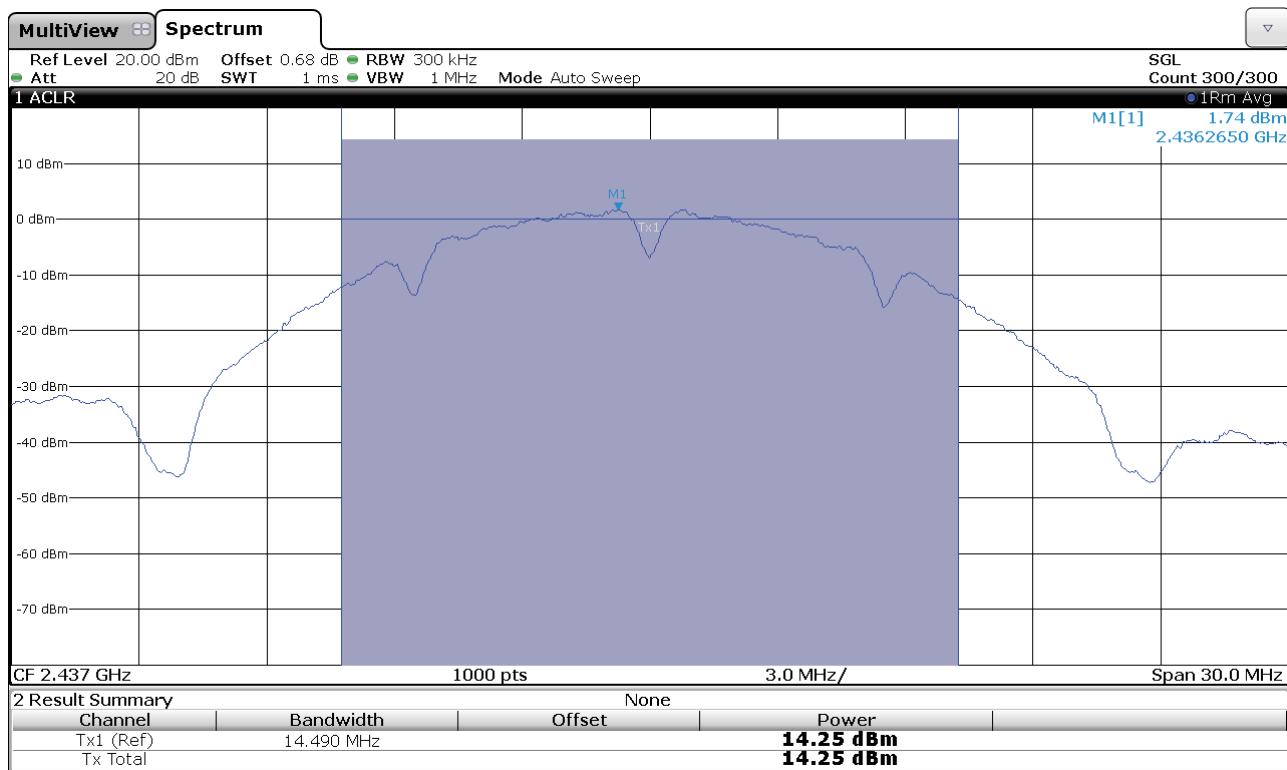
## CHAIN 1 – Antenna:

- Mode 802.11 b

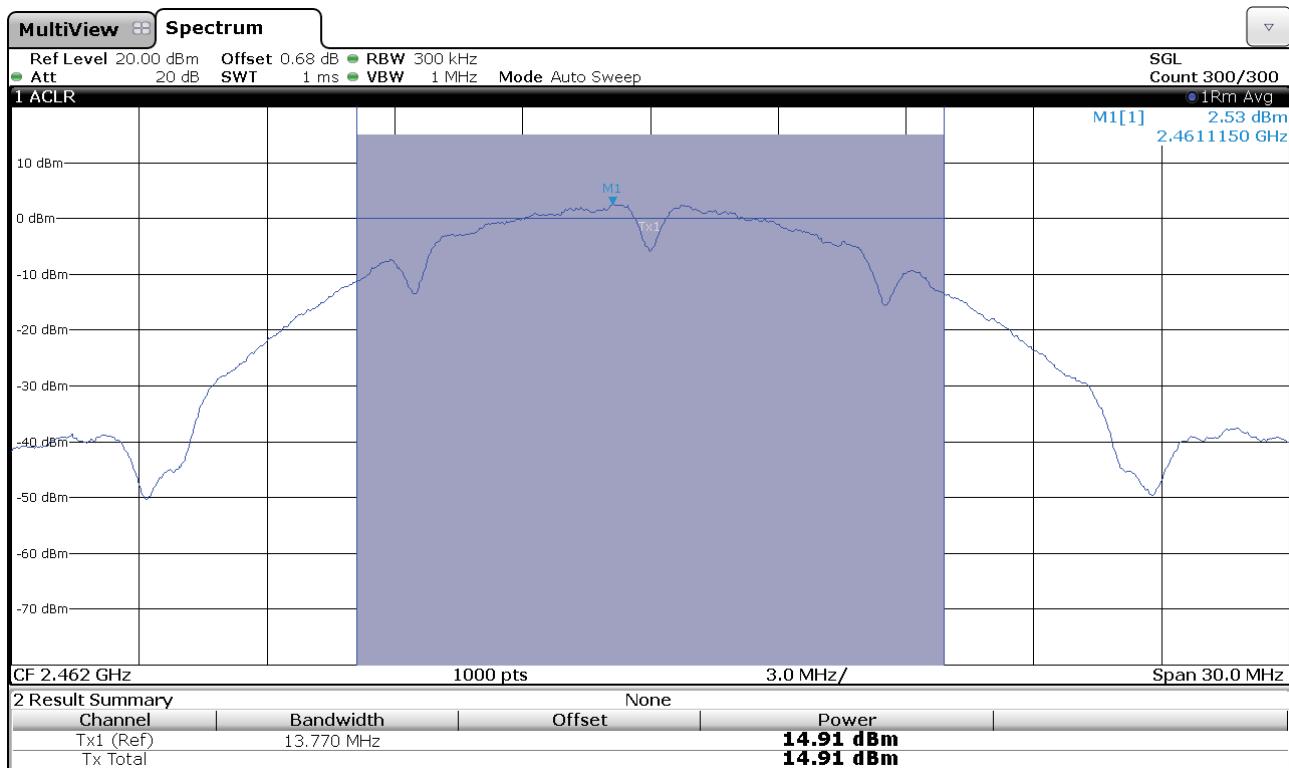
- Low Channel:



- Middle Channel:

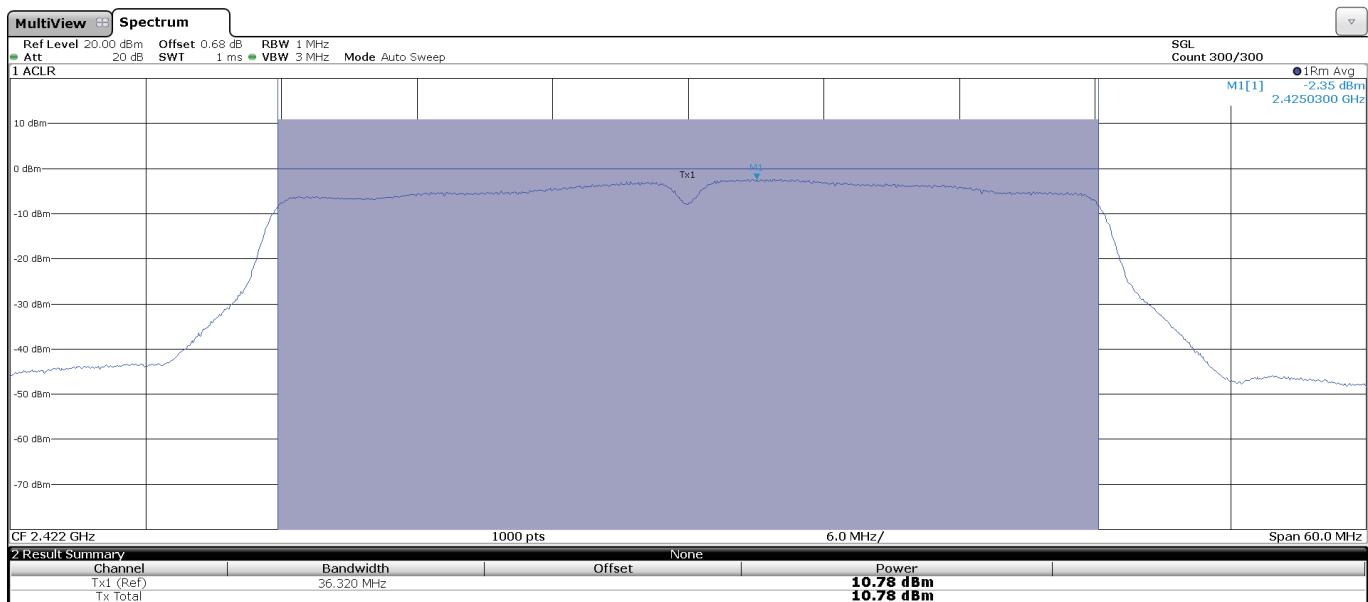


- High Channel:

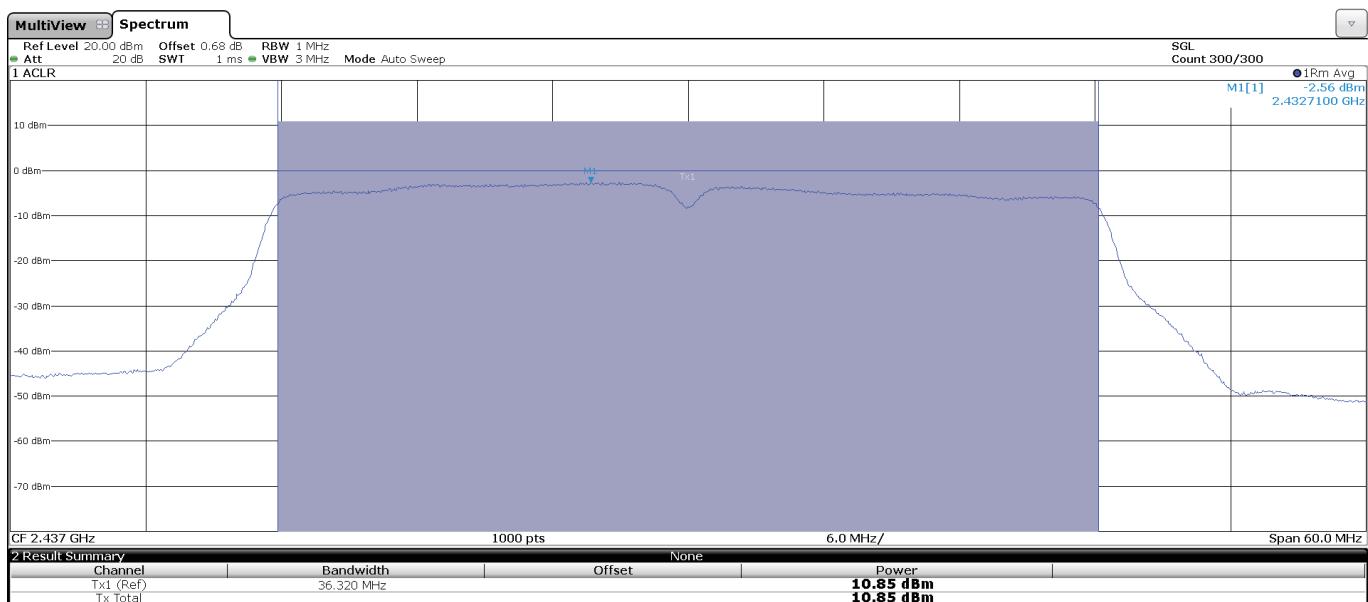


- Mode 802.11 n40

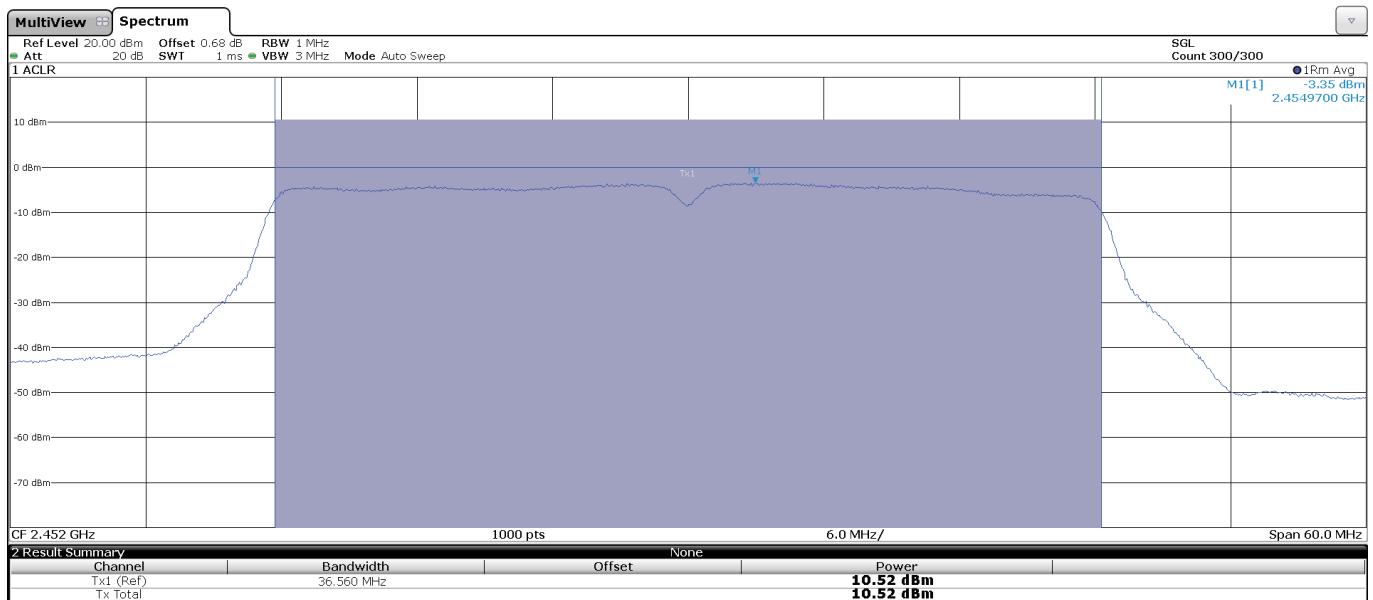
- Low Channel:



- Middle Channel:



- High Channel:



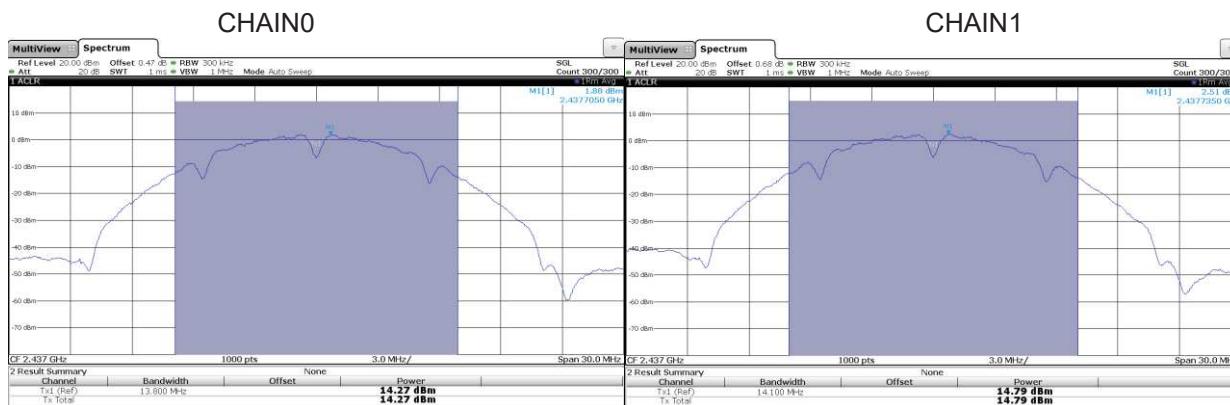
## MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

- Mode 802.11 b

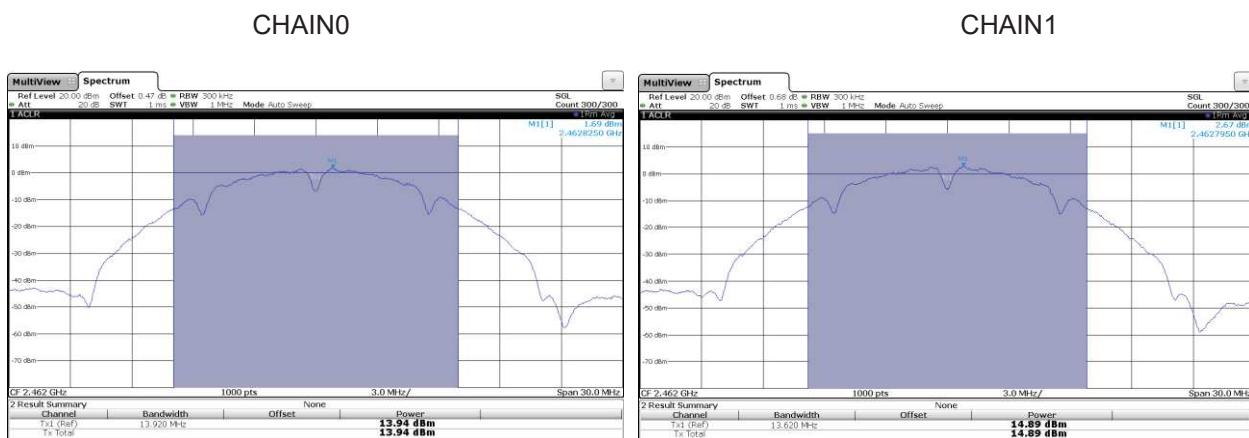
- Low Channel:



- Middle Channel:

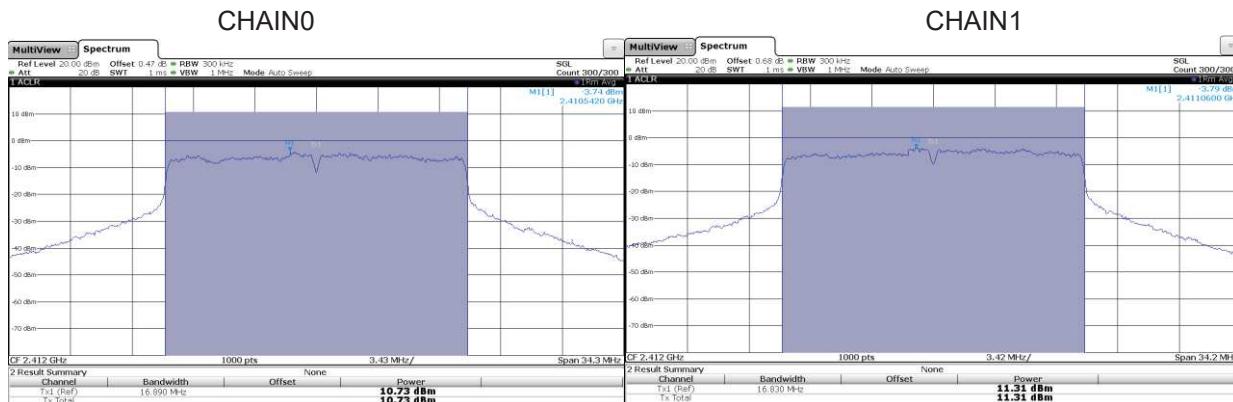


- High Channel:

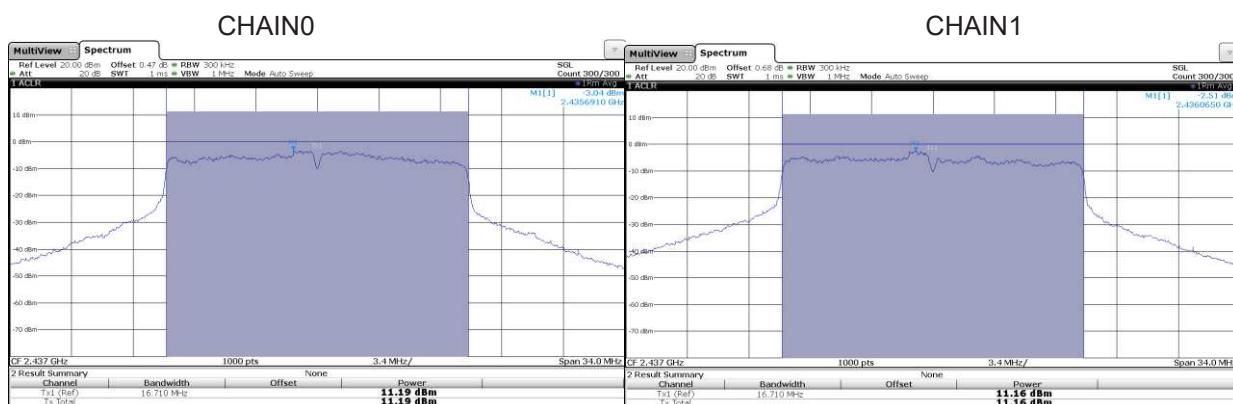


- Mode 802.11 g

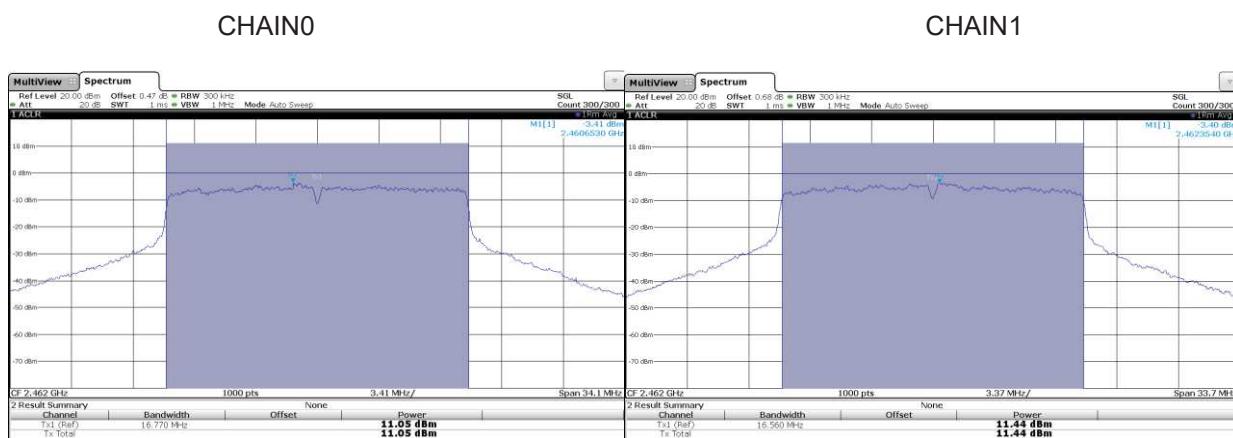
- Low Channel:



- Middle Channel:

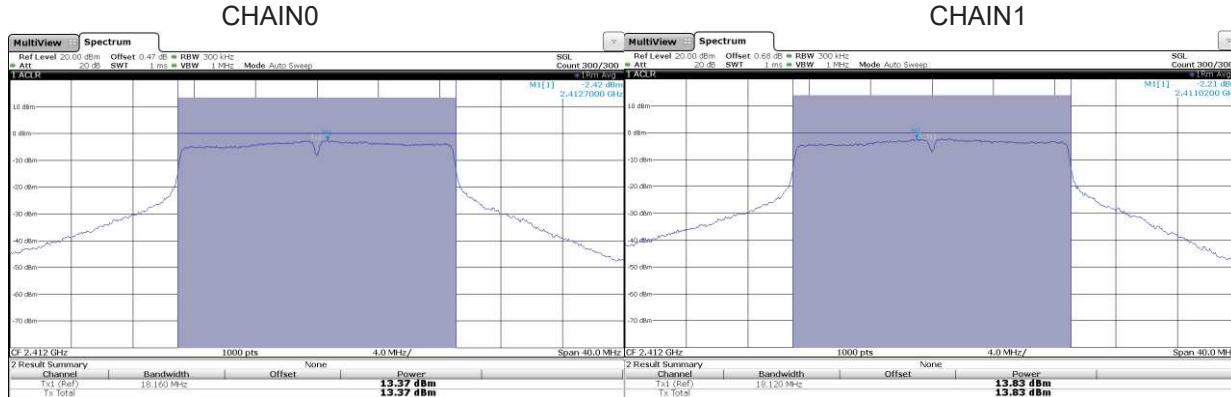


- High Channel:

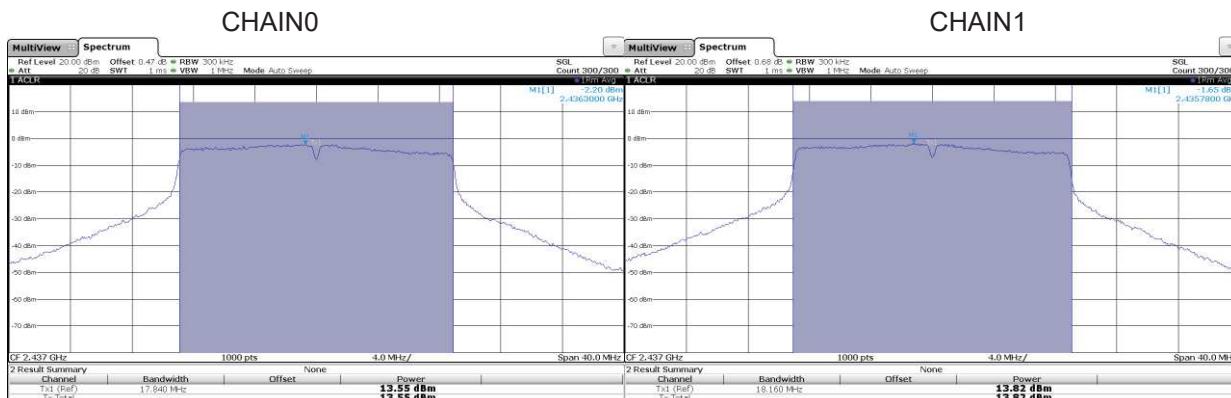


- Mode 802.11 n20

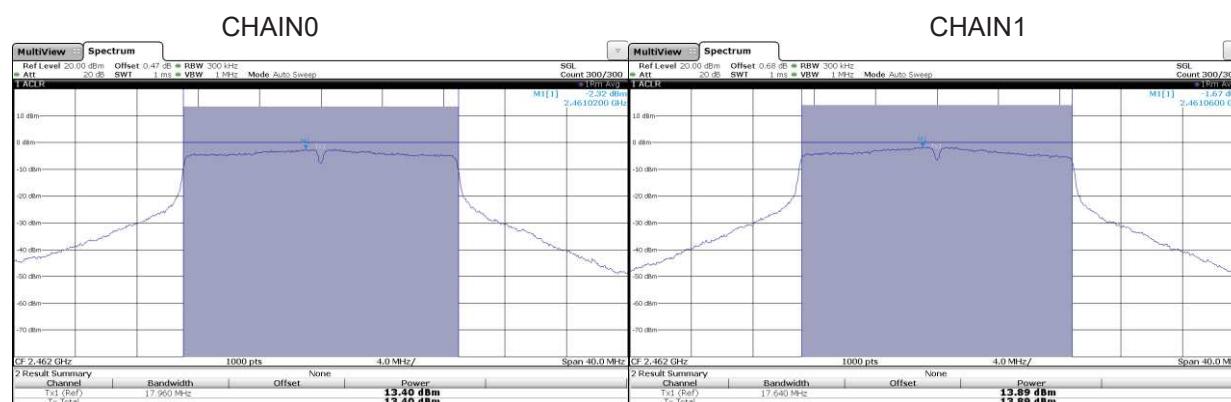
- Low Channel:



- Middle Channel:

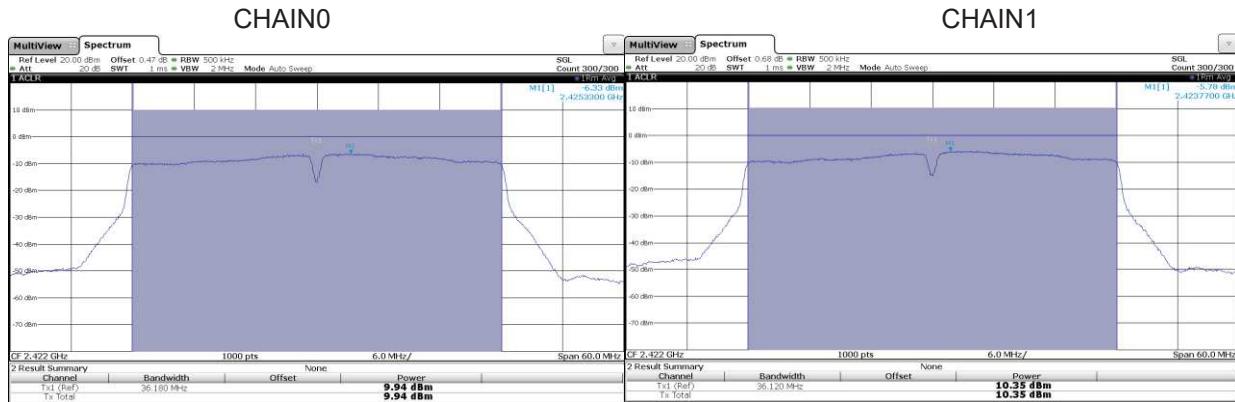


- High Channel:

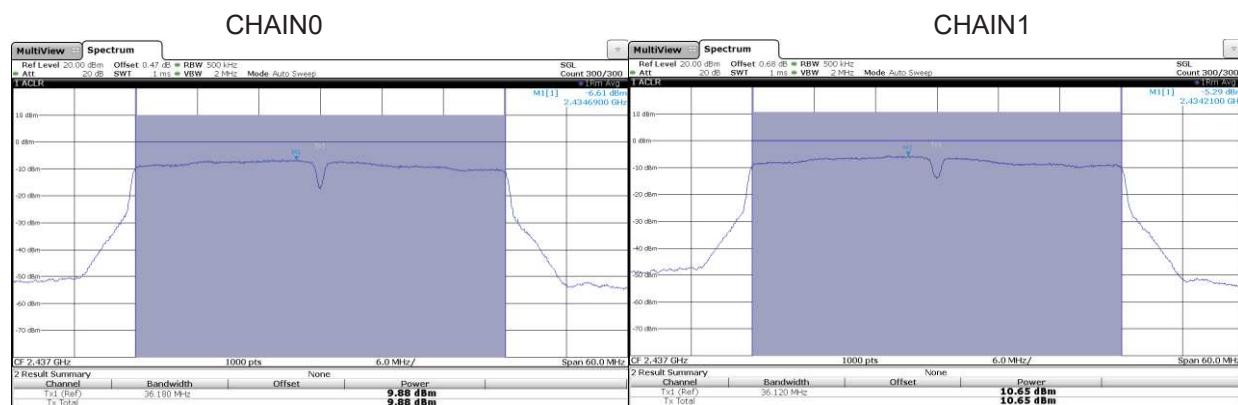


- Mode 802.11 n40

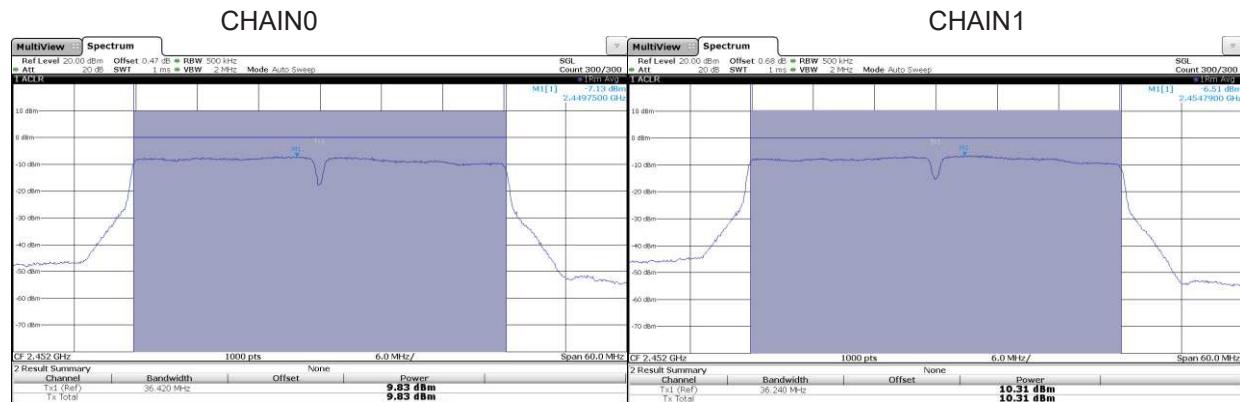
- Low Channel:



- Middle Channel:



- High Channel:



## FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Emission limitations conducted (Transmitter)

### SPECIFICATION:

In any 100 kHz bandwidths outside the frequency band in which the 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

### RESULTS:

- **Mode 802.11 b (CHAIN 1 – Antenna is the worst case e.i.r.p.)**

	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Reference Level Measurement (dBm)	5.63	6.15	6.94
Measurement uncertainty (dB)	<±1.56		

No spurious peaks were found at less than 20 dB below the limit.

- **Mode 802.11 g (CHAIN 1 – Antenna is the worst case e.i.r.p.)**

	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Reference Level Measurement (dBm)	1.41	1.49	2.75
Measurement uncertainty (dB)	<±1.56		

No spurious peaks were found at less than 20 dB below the limit.

- **Mode 802.11 n20 (CHAIN 1 – Antenna is the worst case e.i.r.p.)**

	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Reference Level Measurement (dBm)	4.69	5.31	5.37
Measurement uncertainty (dB)	<±1.56		

No spurious peaks were found at less than 20 dB below the limit.

- **Mode 802.11 n40 (CHAIN 1 – Antenna is the worst case e.i.r.p.)**

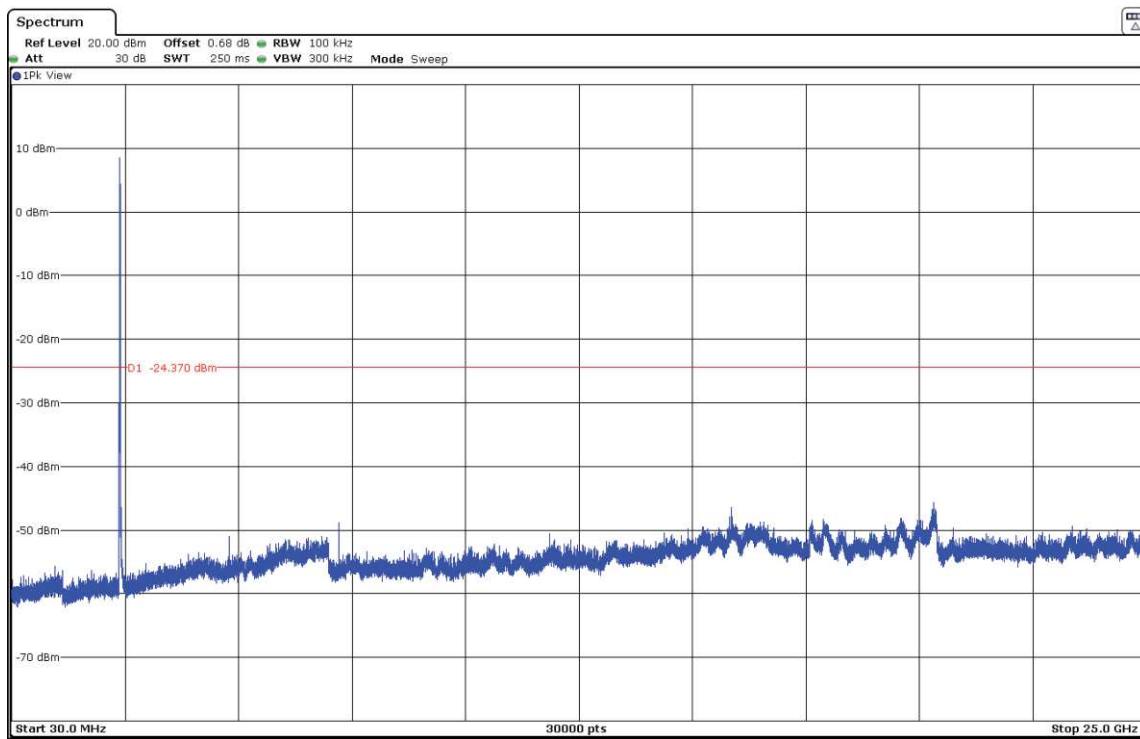
	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Reference Level Measurement (dBm)	-0.95	-1.48	-2.29
Measurement uncertainty (dB)	<±1.56		

No spurious peaks were found at less than 20 dB below the limit.

Verdict: PASS

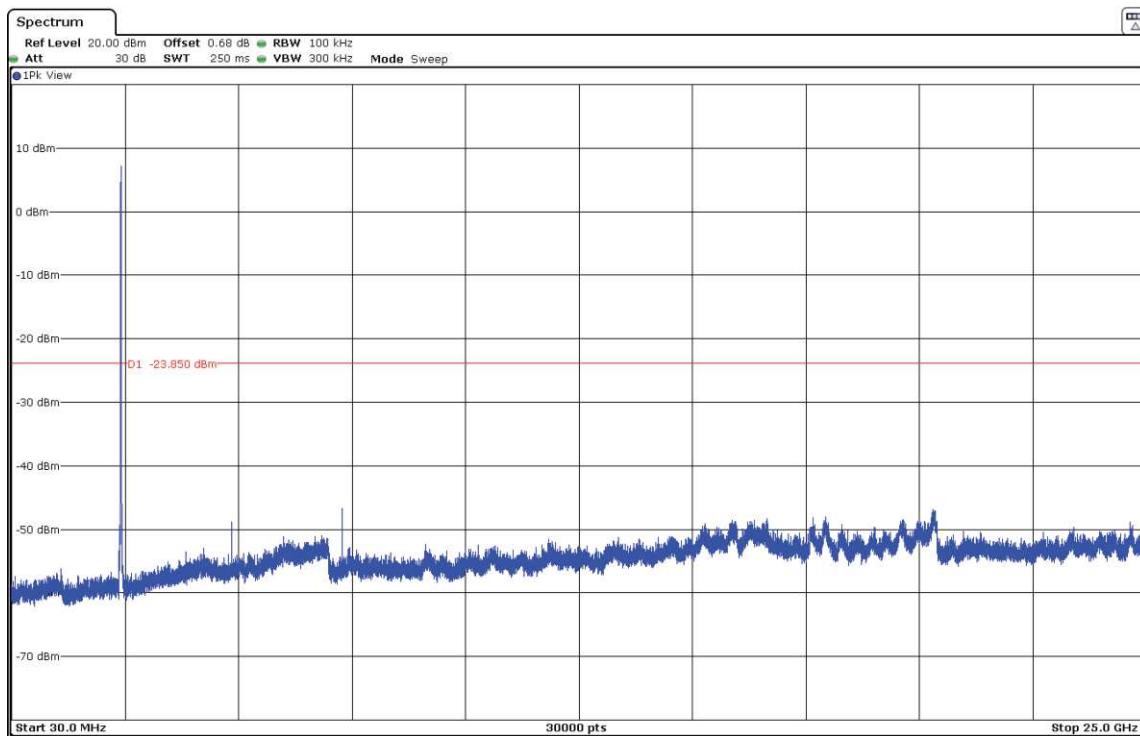
- **Mode 802.11 b – Emission limitations conducted**

- Low Channel:



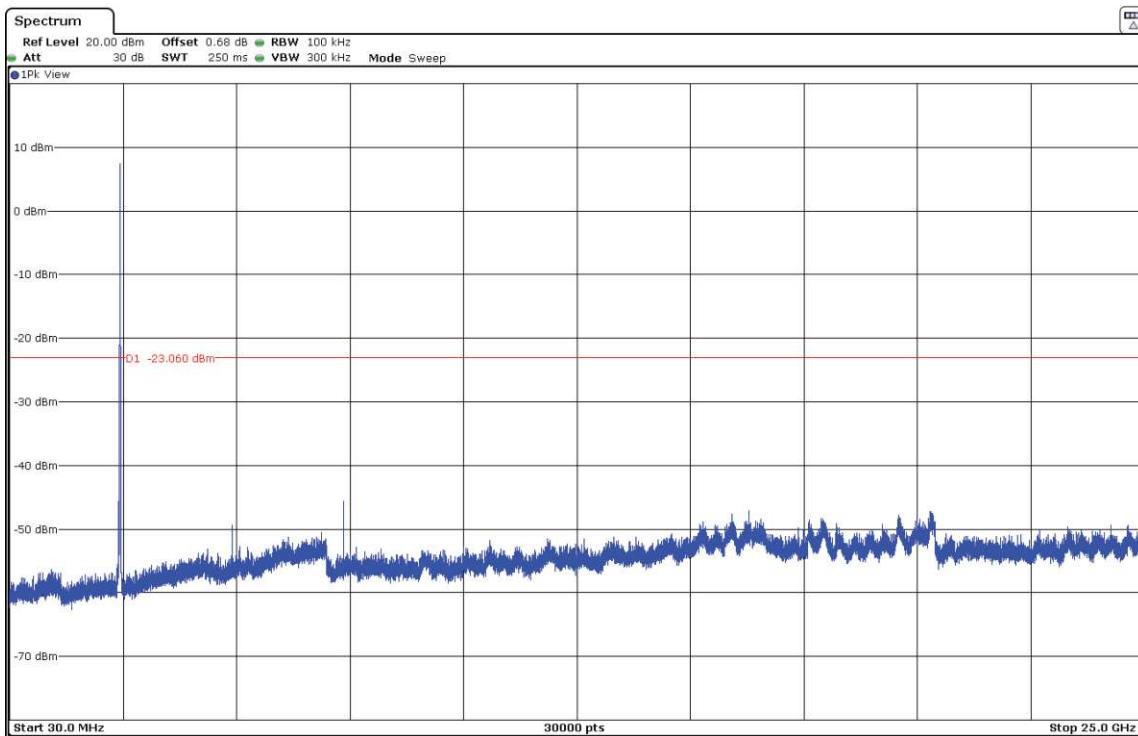
The peak shown in the plot above the limit is the carrier frequency.

- Middle Channel:



The peak shown in the plot above the limit is the carrier frequency.

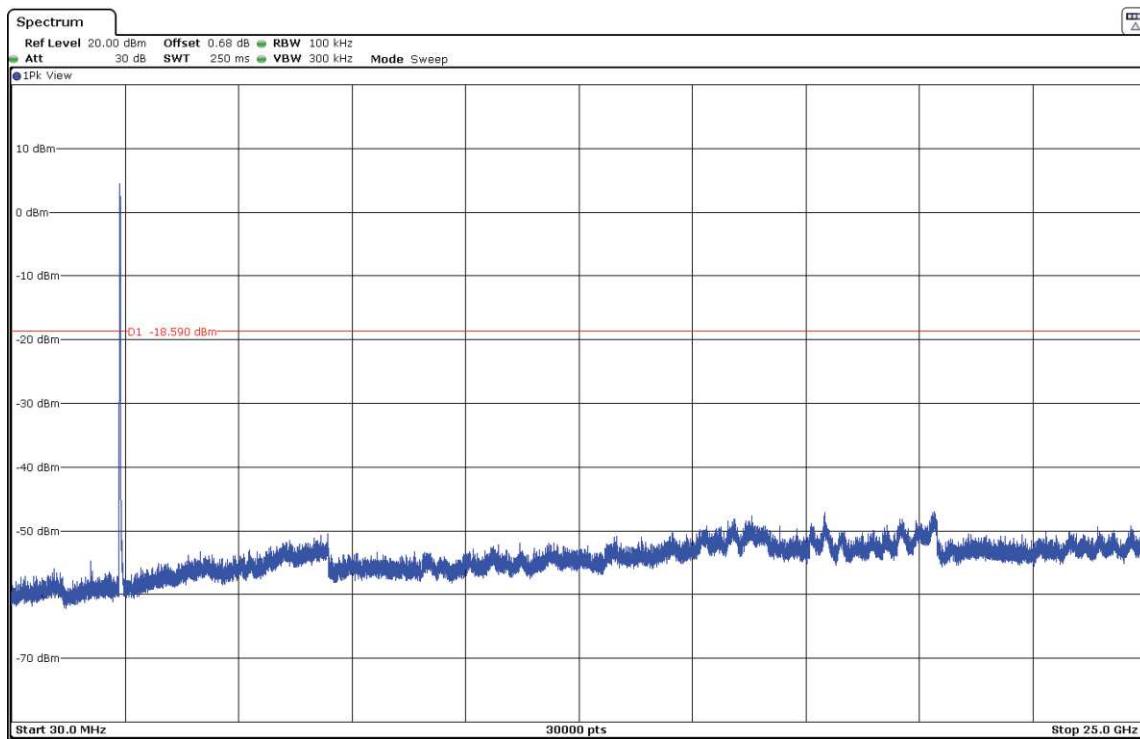
- High Channel:



The peak shown in the plot above the limit is the carrier frequency.

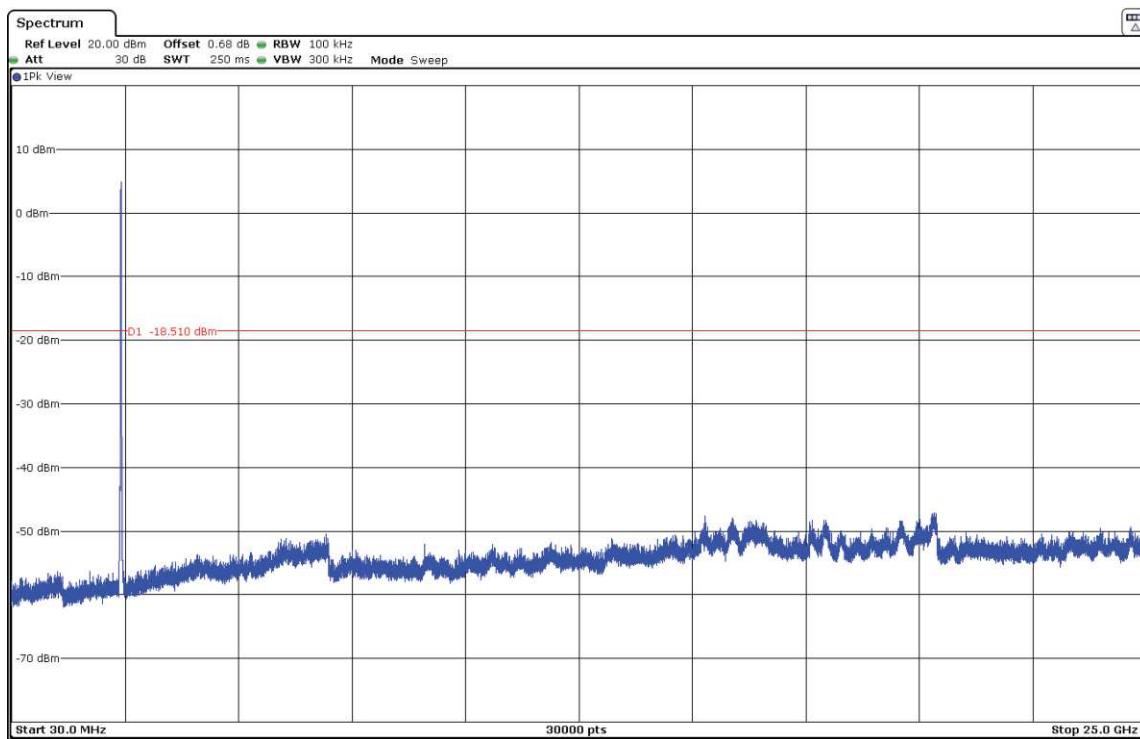
- **Mode 802.11 g – Emission limitations conducted**

- Low Channel:



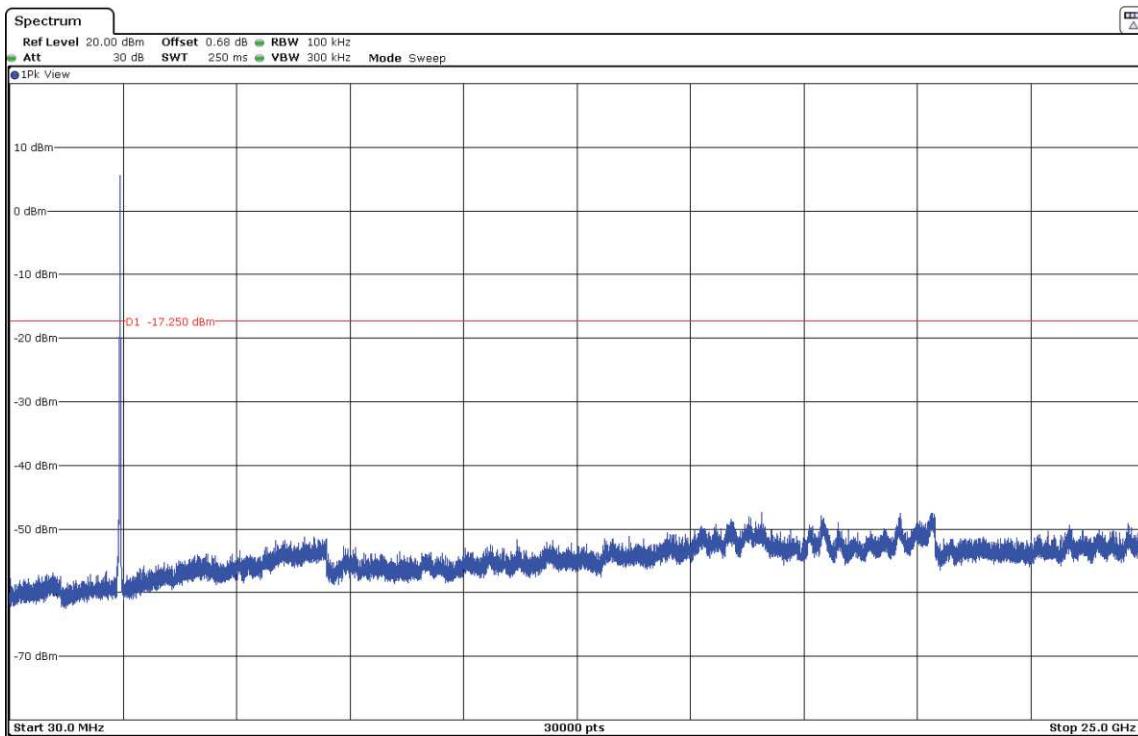
The peak shown in the plot above the limit is the carrier frequency.

- Middle Channel:



The peak shown in the plot above the limit is the carrier frequency.

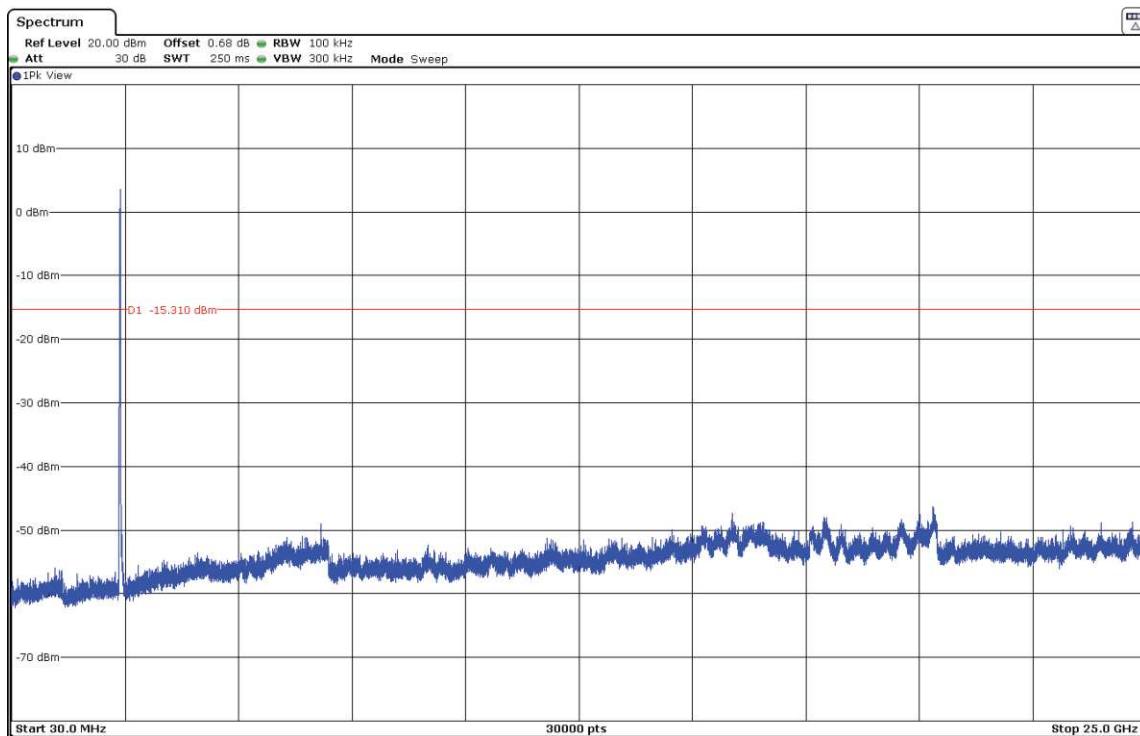
- High Channel:



The peak shown in the plot above the limit is the carrier frequency.

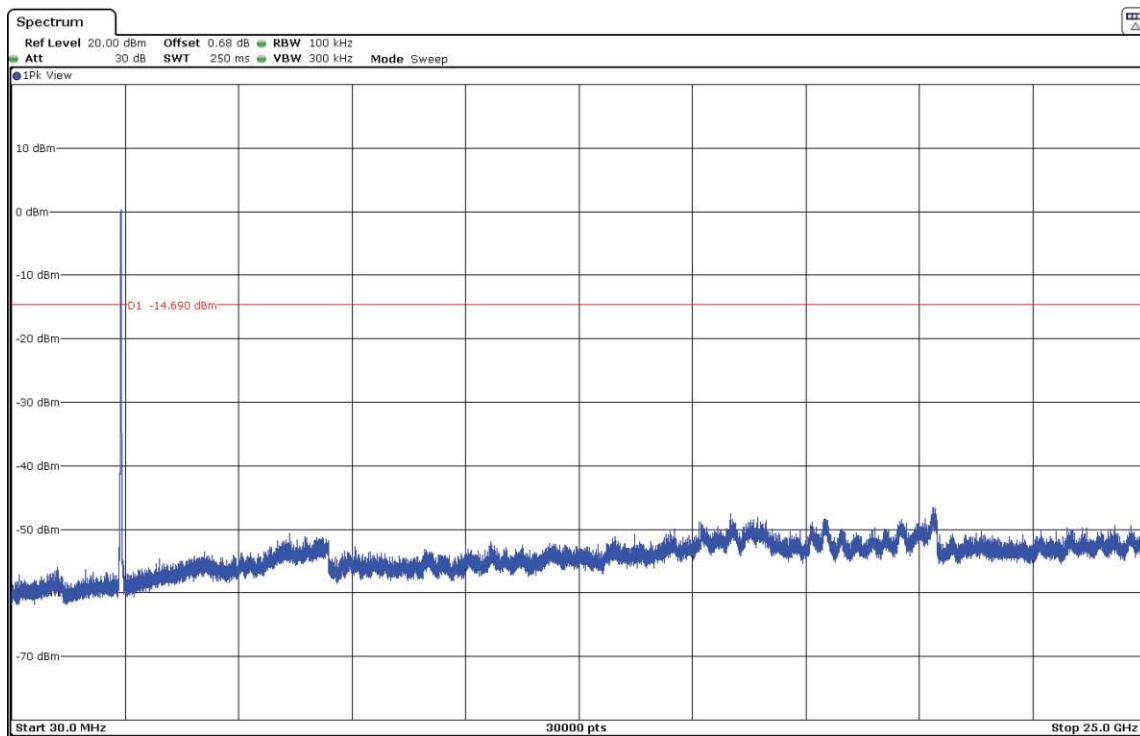
- **Mode 802.11 n20 – Emission limitations conducted**

- Low Channel:



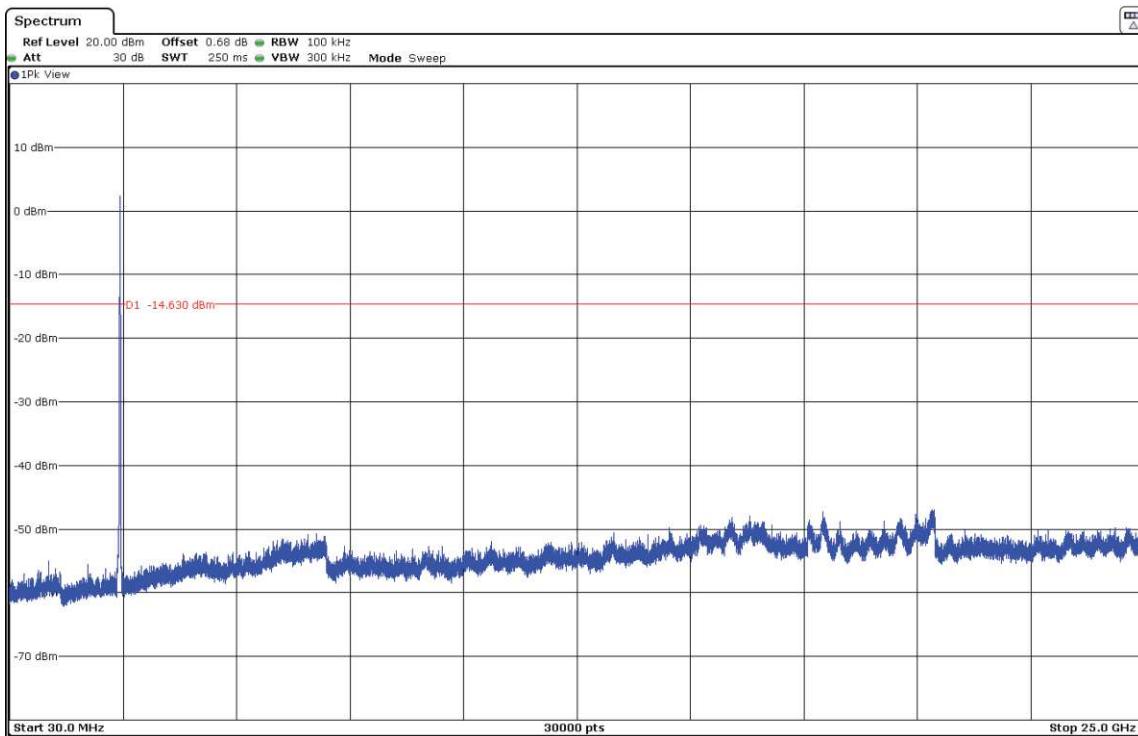
The peak shown in the plot above the limit is the carrier frequency.

- Middle Channel:



The peak shown in the plot above the limit is the carrier frequency.

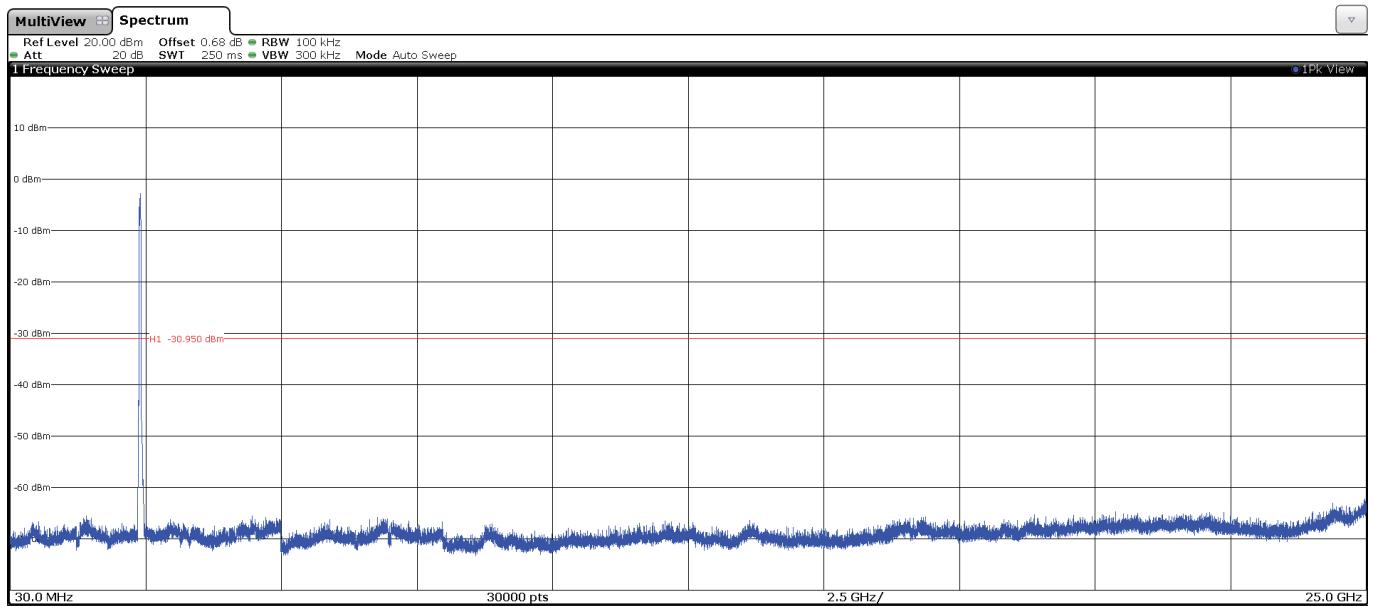
- High Channel:



The peak shown in the plot above the limit is the carrier frequency.

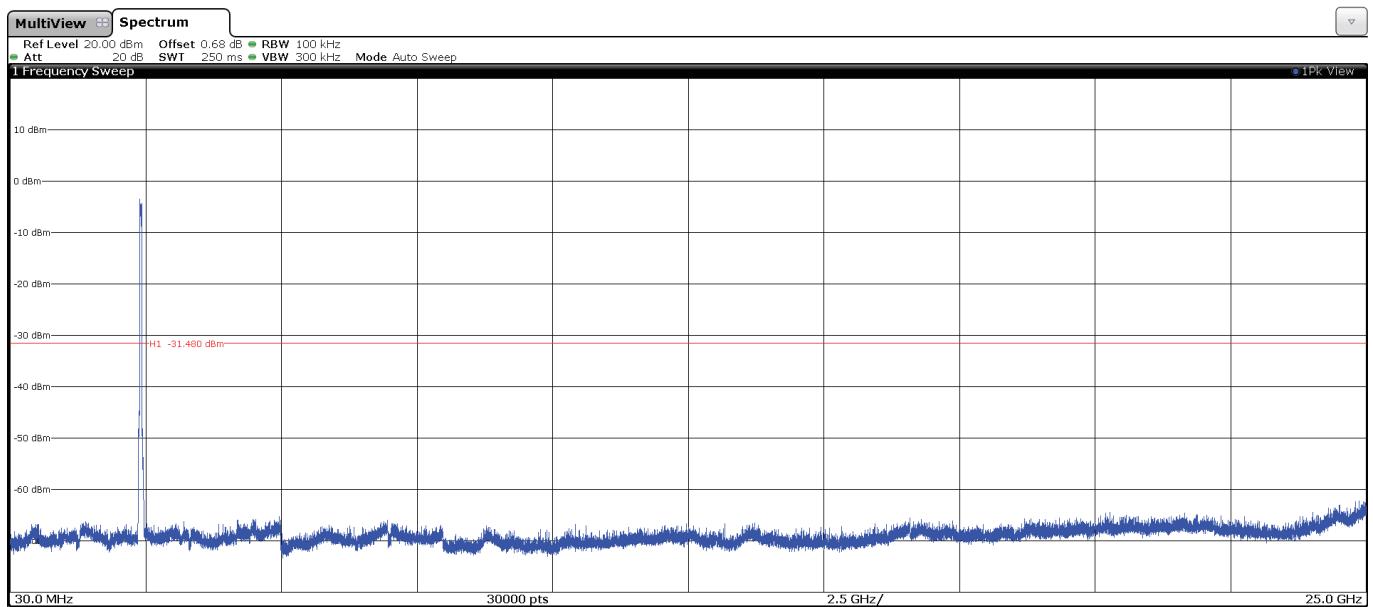
- **Mode 802.11 n40 – Emission limitations conducted**

- Low Channel:



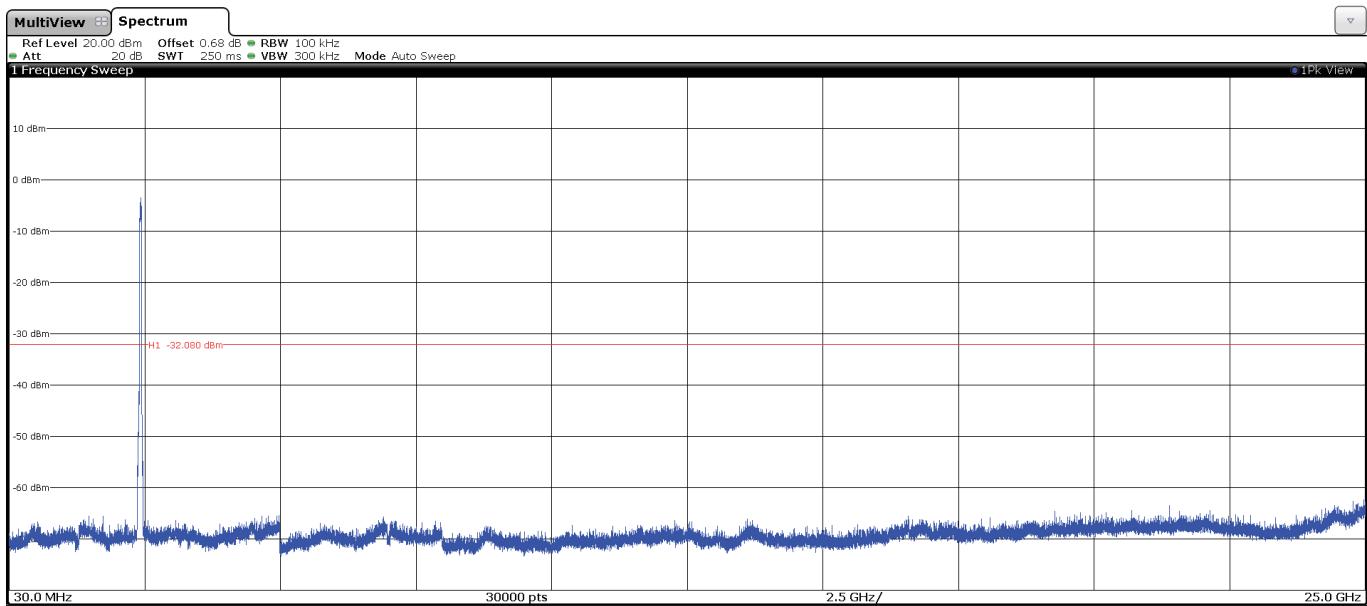
The peak shown in the plot above the limit is the carrier frequency.

- Middle Channel:



The peak shown in the plot above the limit is the carrier frequency.

- High Channel:



The peak shown in the plot above the limit is the carrier frequency.

## FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Band-edge emissions compliance (Transmitter)

### SPECIFICATION:

In any 100 kHz bandwidth outside the frequency band in which the digitally modulated 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required shall be 30 dB instead of 20 dB.

### RESULTS:

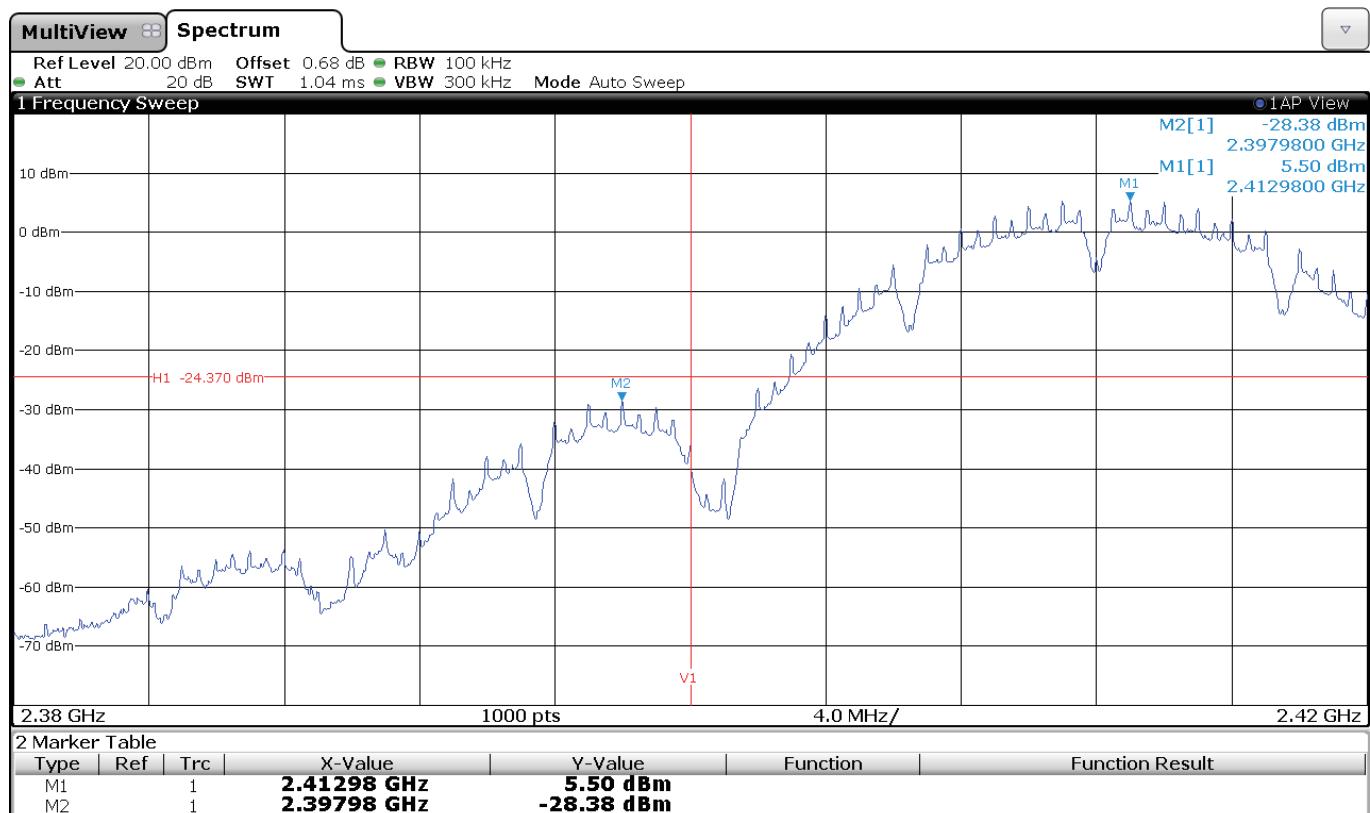
Radiated measurements were used to show compliance with the limits in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Measurement uncertainty (dB)	<±1.56
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### **CHAIN1 – Antenna:**

- Mode 802.11 b – Band-edge emissions compliance**

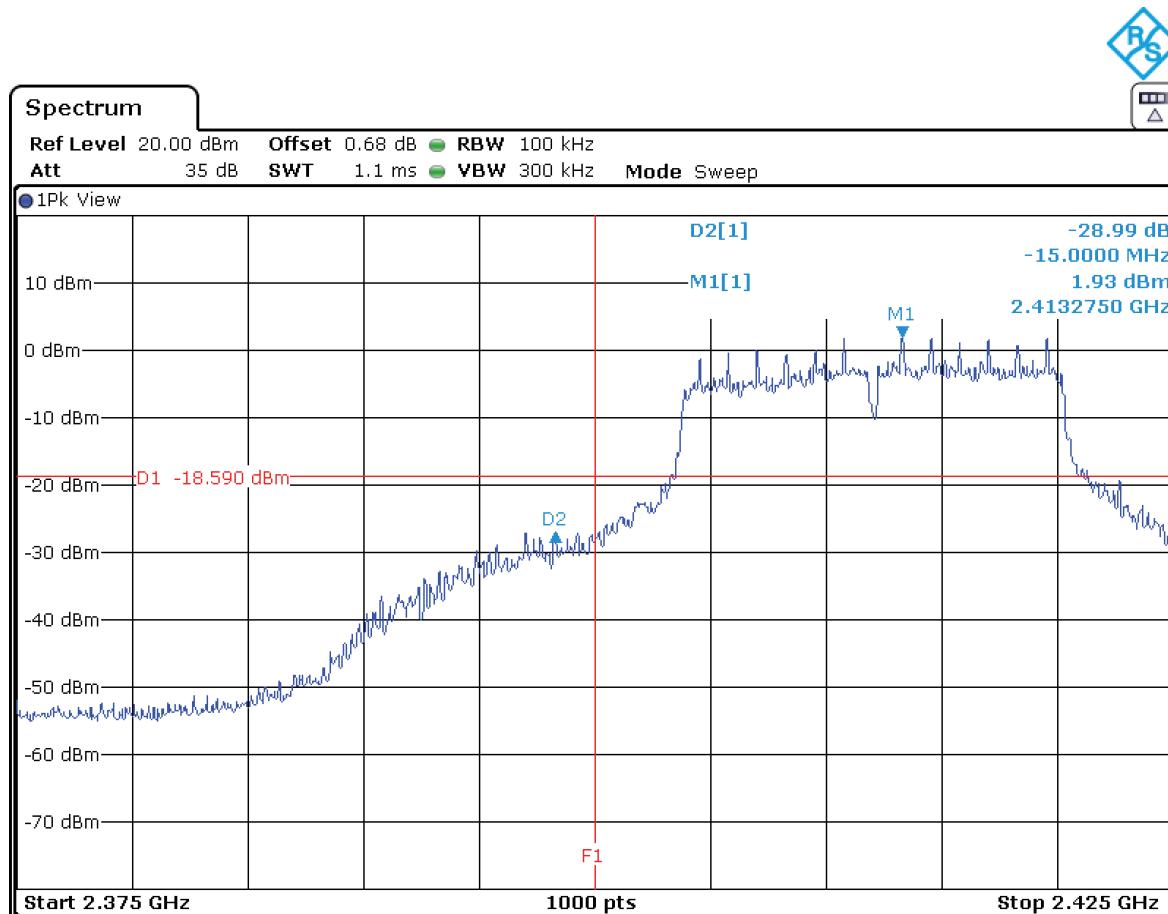
- Low Channel:



Verdict: PASS

- Mode 802.11 g – Band-edge emissions compliance

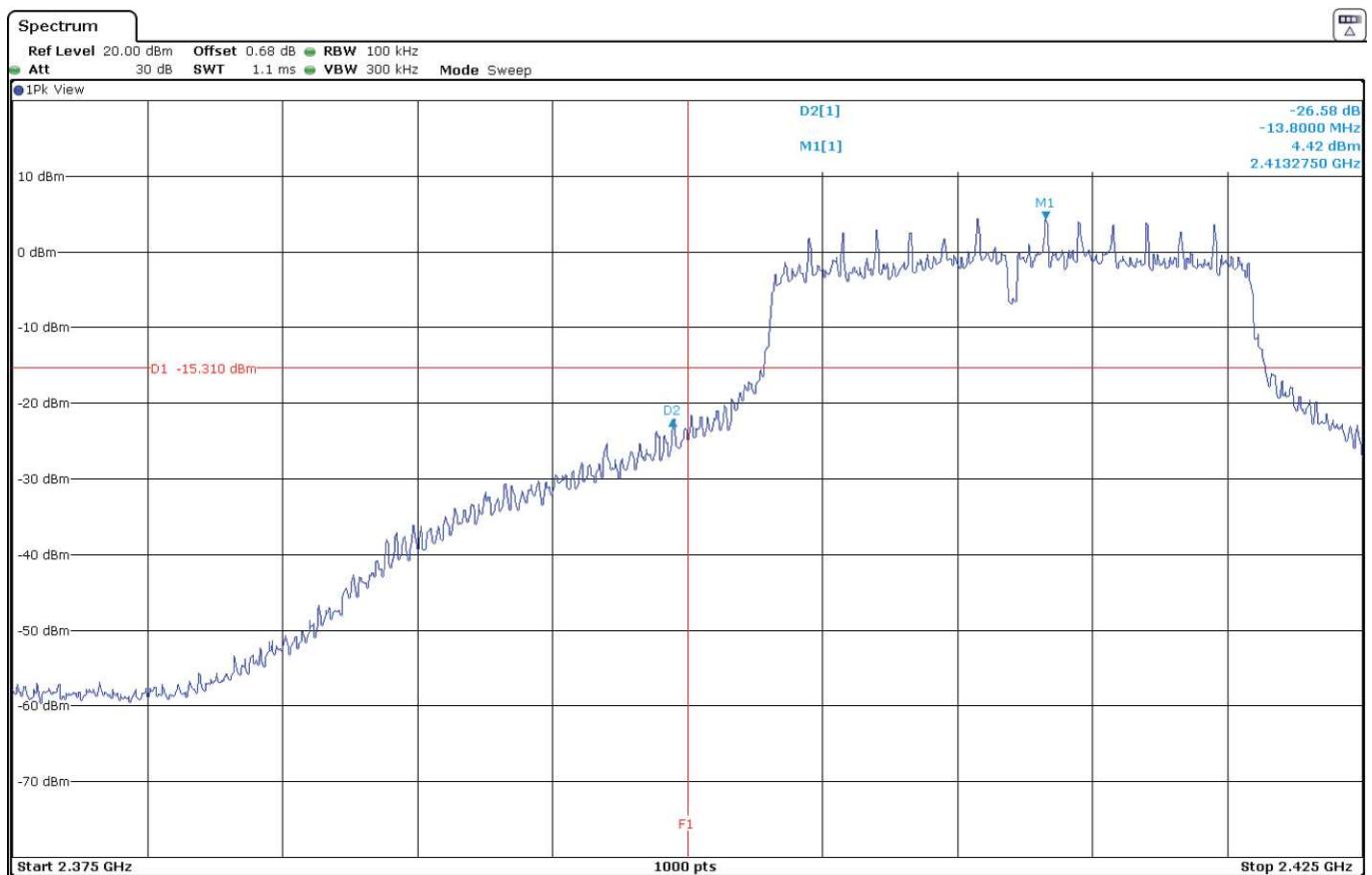
- Low Channel:



Verdict: PASS

- Mode 802.11 n20 – Band-edge emissions compliance

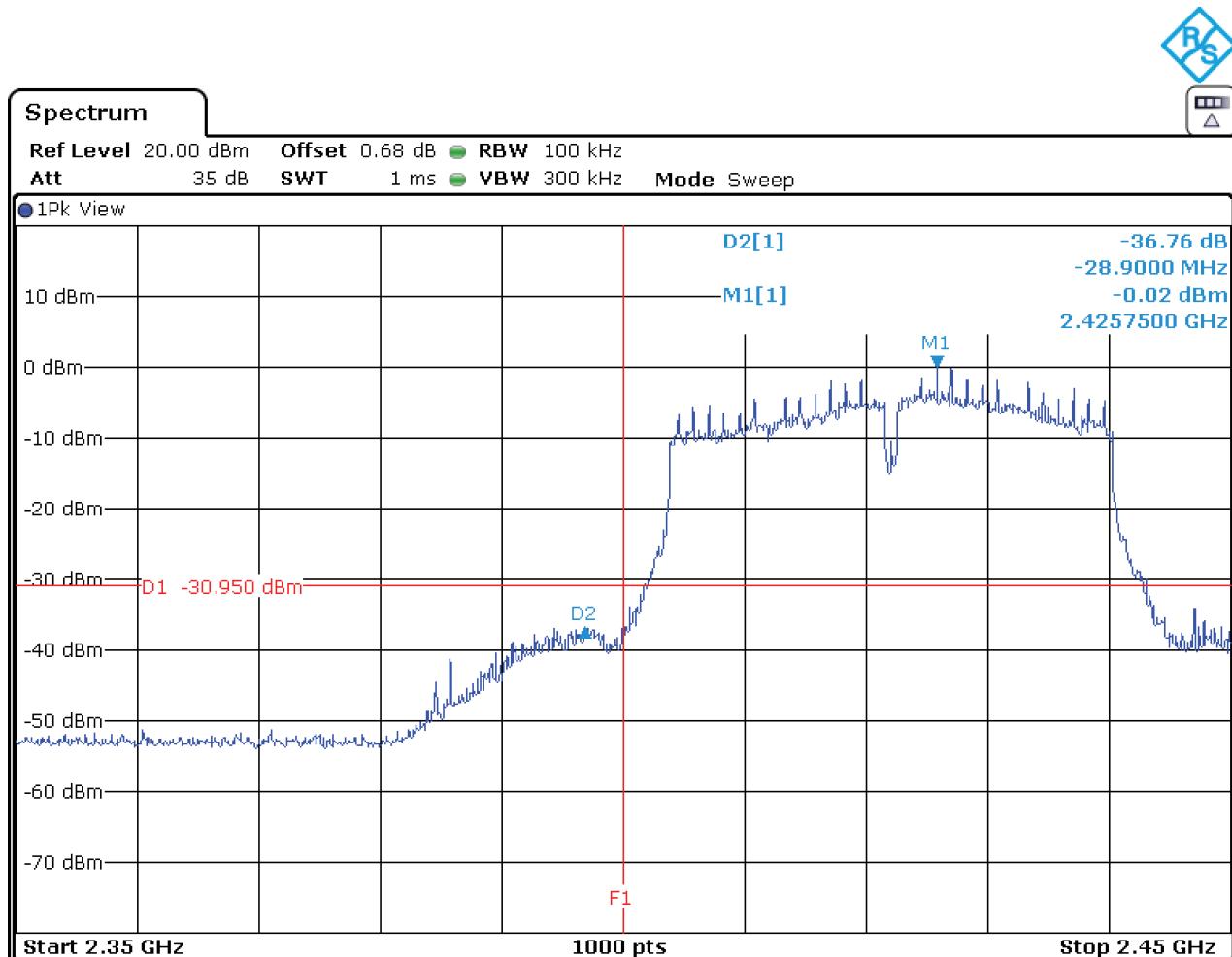
- Low Channel:



Verdict: PASS

- Mode 802.11 n40 – Band-edge emissions compliance

- Low Channel:



Verdict: PASS

## FCC Section 15.247 Subclause (e) / RSS-247 5.2. (b) Power spectral density

### SPECIFICATION:

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.

### RESULTS:

For b and n40 modes, the power spectral density was measured using the method according to point 11.10.3 "Method AVGPSD-1" of ANSI C.63.10-2013.

For g and n20 modes, the power spectral density was measured using the method according to point 11.10.2 "Method PKPM1" of ANSI C.63.10-2013.

For MIMO modes, the power spectral density was measured using the method according to point 11.10.5 "Method AVGPSD-2" of ANSI C.63.10-2013.

Preliminary tests determined the SISO worst case for each mode.

### **CHAIN1 – Antenna:**

- **Mode 802.11 b**

	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Average Power Spectral Density (dBm)	-5.94	-4.94	-4.51
Measurement uncertainty (dB)	<±1.56		

- **Mode 802.11 g**

	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Peak Power Spectral Density (dBm)	4.67	4.63	5.02
Measurement uncertainty (dB)	<±1.56		

- **Mode 802.11 n20**

	Low Channel 2412 MHz	Middle Channel 2437 MHz	High Channel 2462 MHz
Peak Power Spectral Density (dBm)	4.46	4.57	4.99
Measurement uncertainty (dB)	<±1.56		

- **Mode 802.11 n40**

	Low Channel 2422 MHz	Middle Channel 2437 MHz	High Channel 2452 MHz
Average Power Spectral Density (dBm)	-13.46	-12.92	-14.17
Measurement uncertainty (dB)	<±1.56		

Verdict: PASS

### MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

- \* **CHAIN0+CHAIN1 – Maximum Declared Antenna Gain: +2.99 dBi**

- **Mode 802.11 b**

	Low Channel 2412 MHz		Middle Channel 2437 MHz		High Channel 2462 MHz	
	CHAIN0	CHAIN1	CHAIN0	CHAIN1	CHAIN0	CHAIN1
Average Power Spectral Density Level (dBm/3KHz)	-18.21	-17.94	-18.21	-17.93	-17.89	-17.71
	CHAIN0 + CHAIN1		CHAIN0 + CHAIN1		CHAIN0 + CHAIN1	
Combined Conducted PSD Level (dBm)	-15.06		-15.06		-14.78	
Measurement uncertainty (dB)	<±1.56					

- **Mode 802.11 g**

	Low Channel 2412 MHz		Middle Channel 2437 MHz		High Channel 2462 MHz	
	CHAIN0	CHAIN1	CHAIN0	CHAIN1	CHAIN0	CHAIN1
Average Power Spectral Density Level (dBm/3KHz)	-20.187	-20.73	-20.81	-20.76	-20.79	-20.29
Duty Cycle Correction Factor (dB)	0.134		0.134		0.134	
PSD Level corrected (dBm/3KHz)	-20.73	-20.59	-20.66	-20.62	-20.65	-20.15
	CHAIN0 + CHAIN1		CHAIN0 + CHAIN1		CHAIN0 + CHAIN1	
Combined Conducted PSD Level (dBm)	-17.65		-17.64		-17.38	
Measurement uncertainty (dB)	<±1.56					

- **Mode 802.11 n20**

	Low Channel 2412 MHz		Middle Channel 2437 MHz		High Channel 2462 MHz	
	CHAIN0	CHAIN1	CHAIN0	CHAIN1	CHAIN0	CHAIN1
Average Power Spectral Density Level (dBm/3KHz)	-21.32	-20.99	-21.19	-21.09	-21.16	-20.55
Duty Cycle Correction Factor (dB)	0.167		0.167		0.167	
PSD Level corrected (dBm/3KHz)	-21.15	-20.82	-21.02	-20.92	-20.99	-20.38
	CHAIN0 + CHAIN1		CHAIN0 + CHAIN1		CHAIN0 + CHAIN1	
Combined Conducted PSD Level (dBm)	-17.97		-17.96		-17.66	
Measurement uncertainty (dB)	<±1.56					

• Mode 802.11 n40

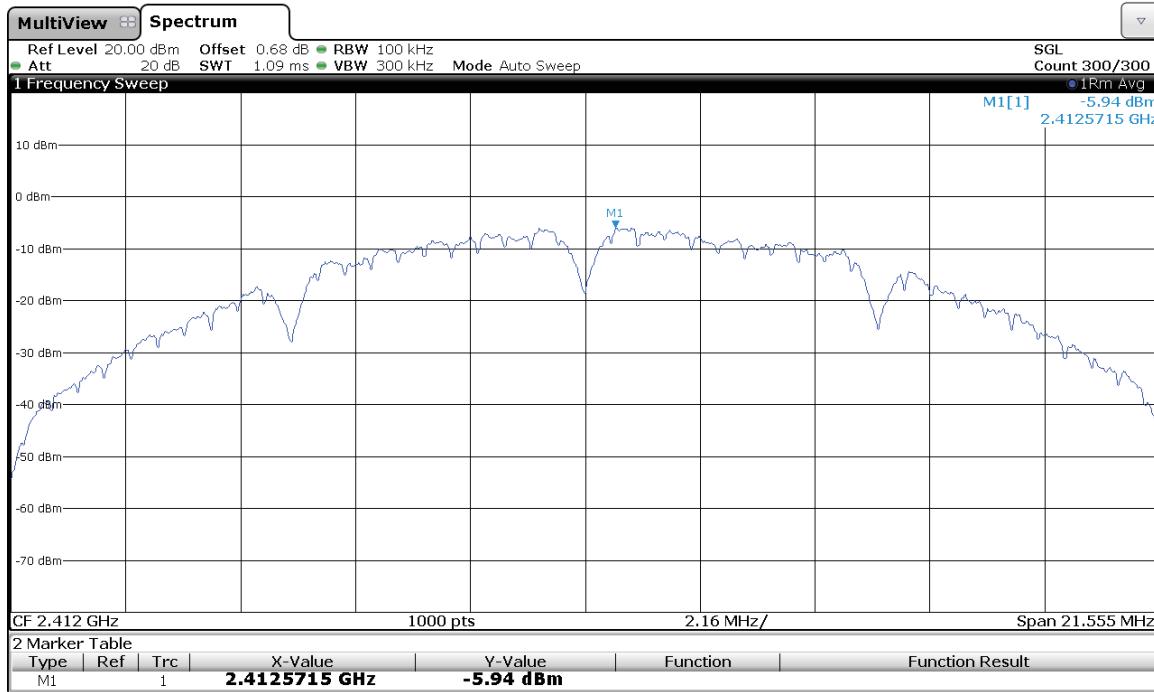
	Low Channel 2422 MHz		Middle Channel 2437 MHz		High Channel 2452 MHz	
	CHAIN0	CHAIN1	CHAIN0	CHAIN1	CHAIN0	CHAIN1
Average Power Spectral Density Level (dBm/3KHz)	-27.77	-26.97	-27.97	-27.33	-28.65	-28.09
Duty Cycle Correction Factor (dB)	0.315		0.315		0.315	
PSD Level corrected (dBm/3KHz)	-27.46	-26.66	-27.66	-27.02	-28.34	-27.78
	CHAIN0 + CHAIN1		CHAIN0 + CHAIN1		CHAIN0 + CHAIN1	
Combined Conducted PSD Level (dBm)	-24.03		-24.31		-25.03	
Measurement uncertainty (dB)	<±1.56					

Verdict: PASS

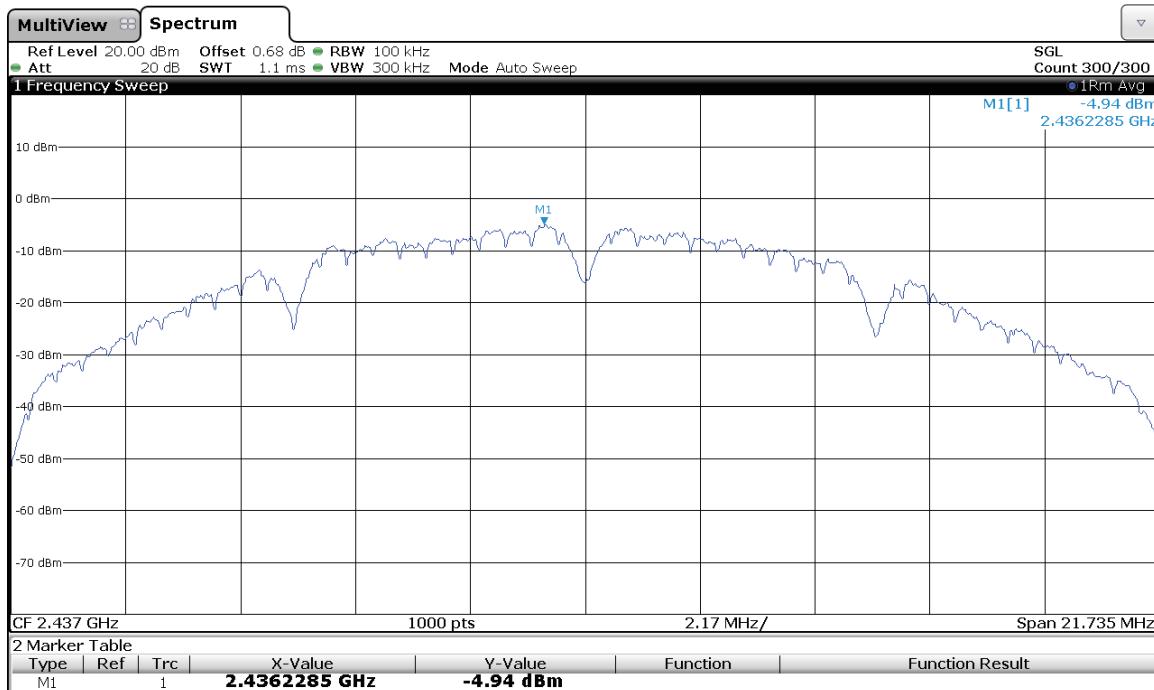
## CHAIN1 – Antenna:

- Mode 802.11 b – Power Spectral Density

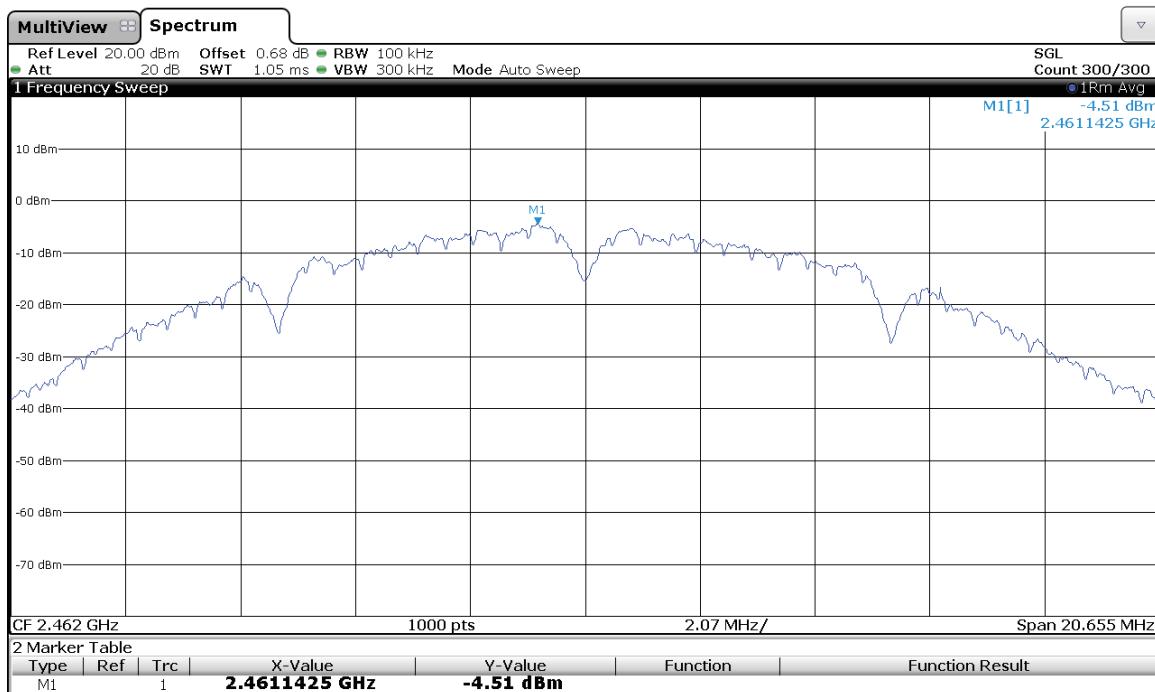
- Low Channel:



- Middle Channel:



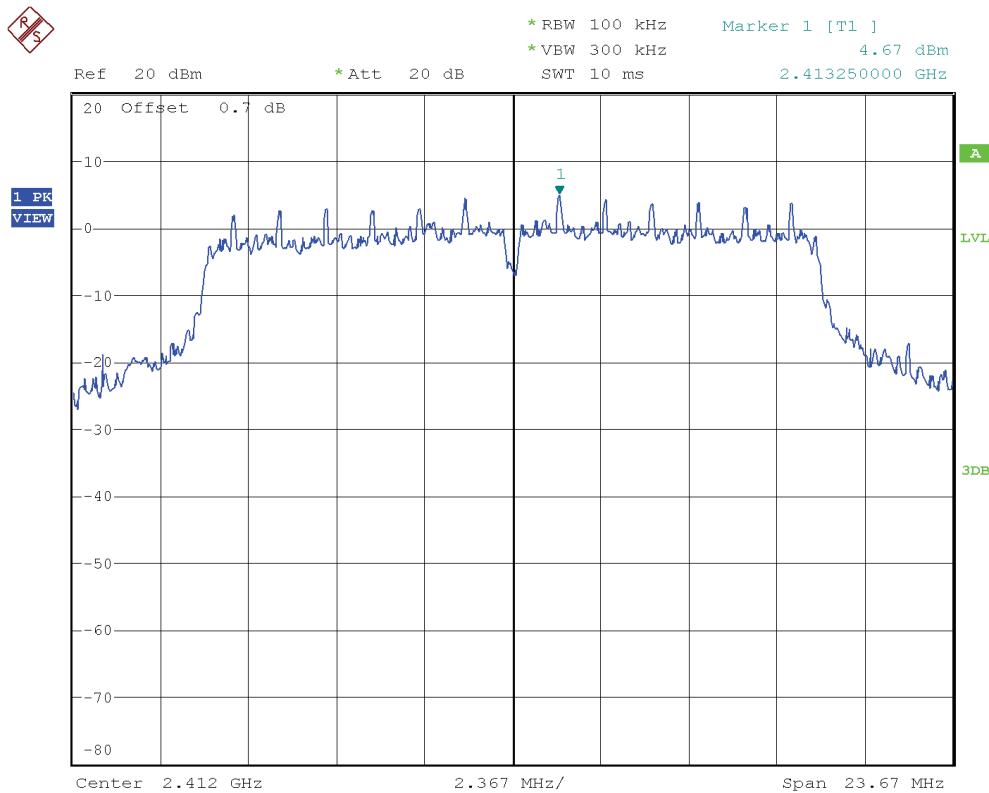
- High Channel:



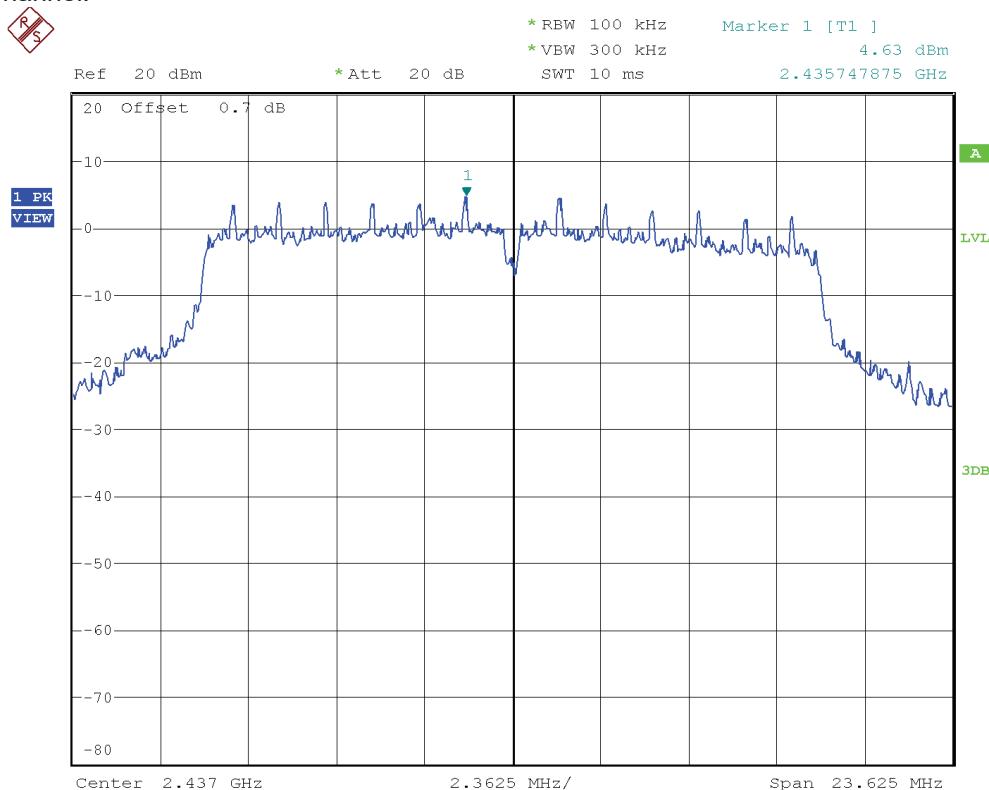
## CHAIN1 – Antenna:

- Mode 802.11 g – Power Spectral Density

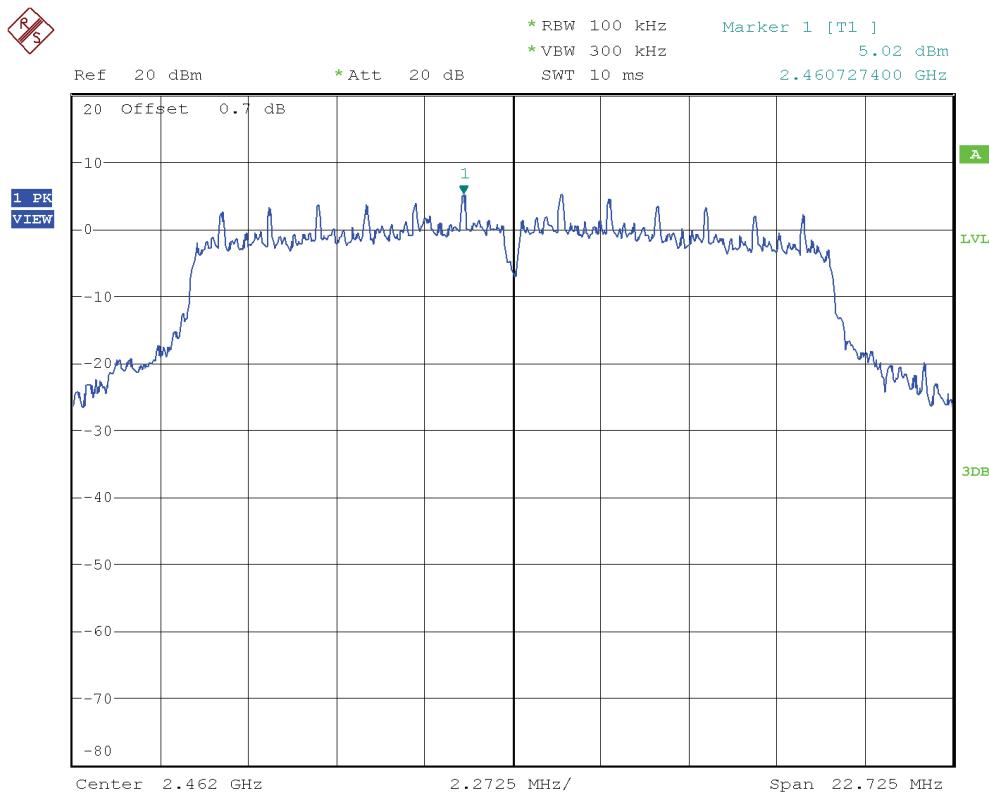
- Low Channel:



- Middle Channel:



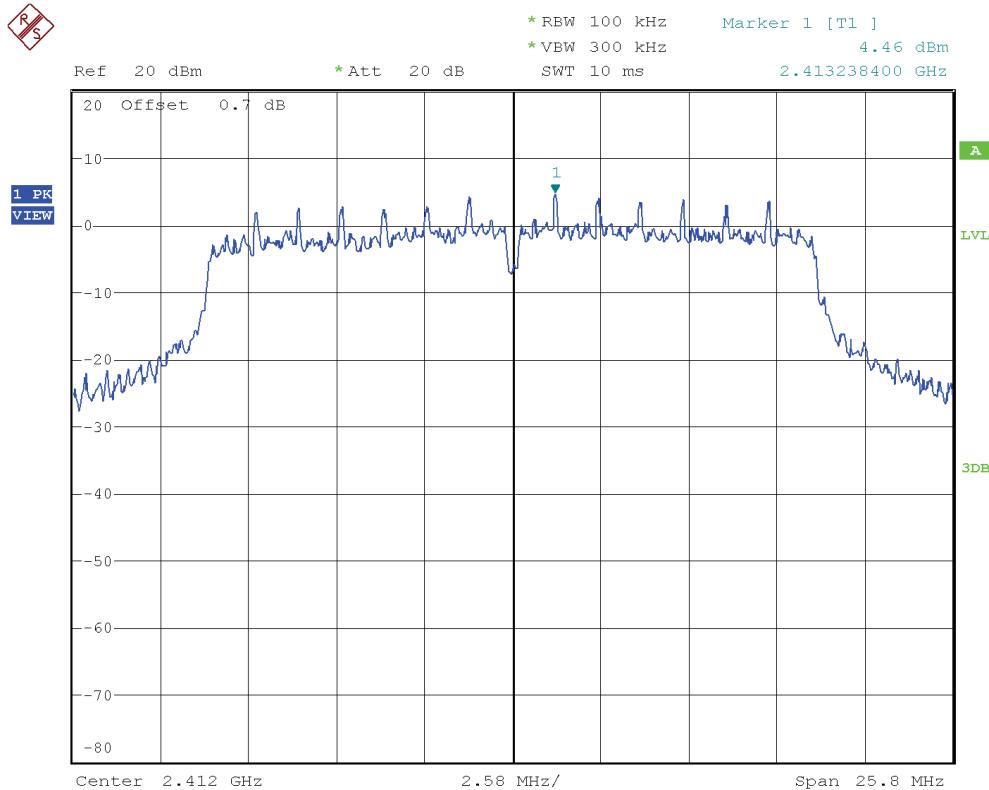
- High Channel:



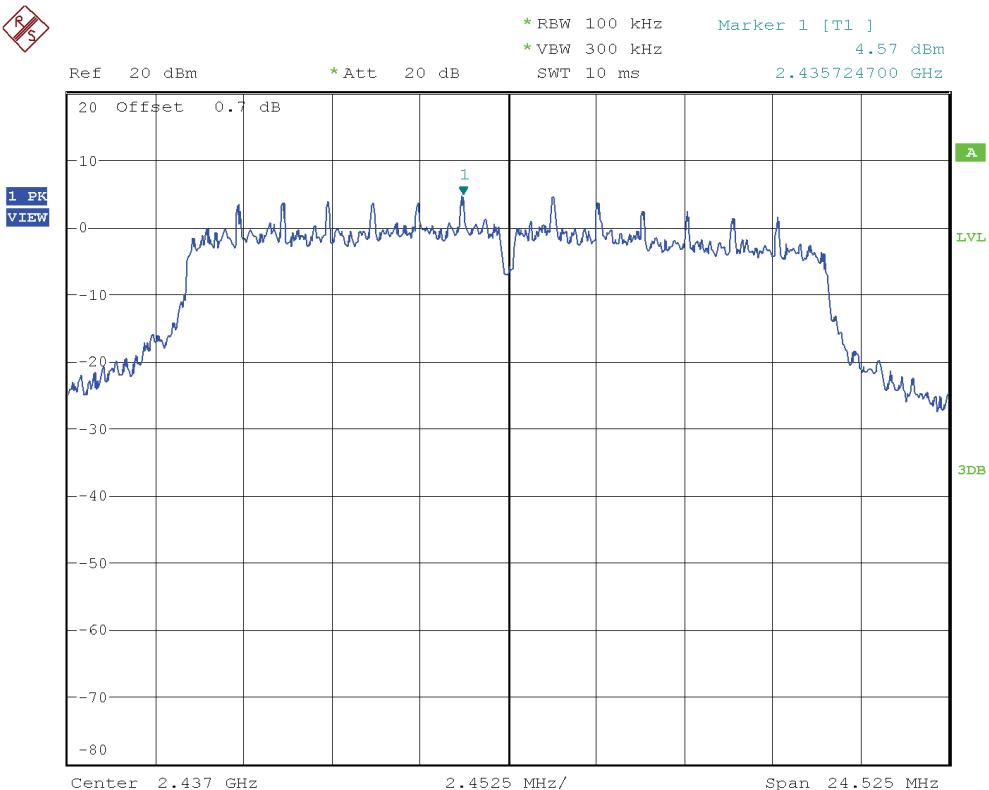
## CHAIN1 – Antenna:

- Mode 802.11 n20 – Power Spectral Density

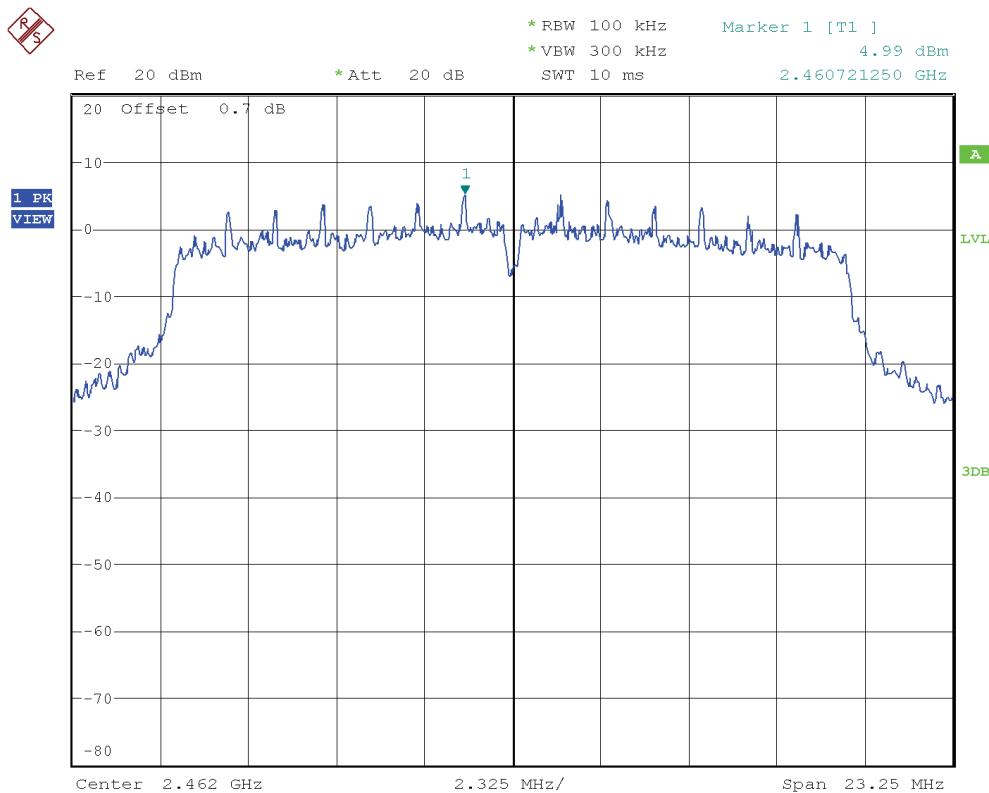
- Low Channel:



- Middle Channel:



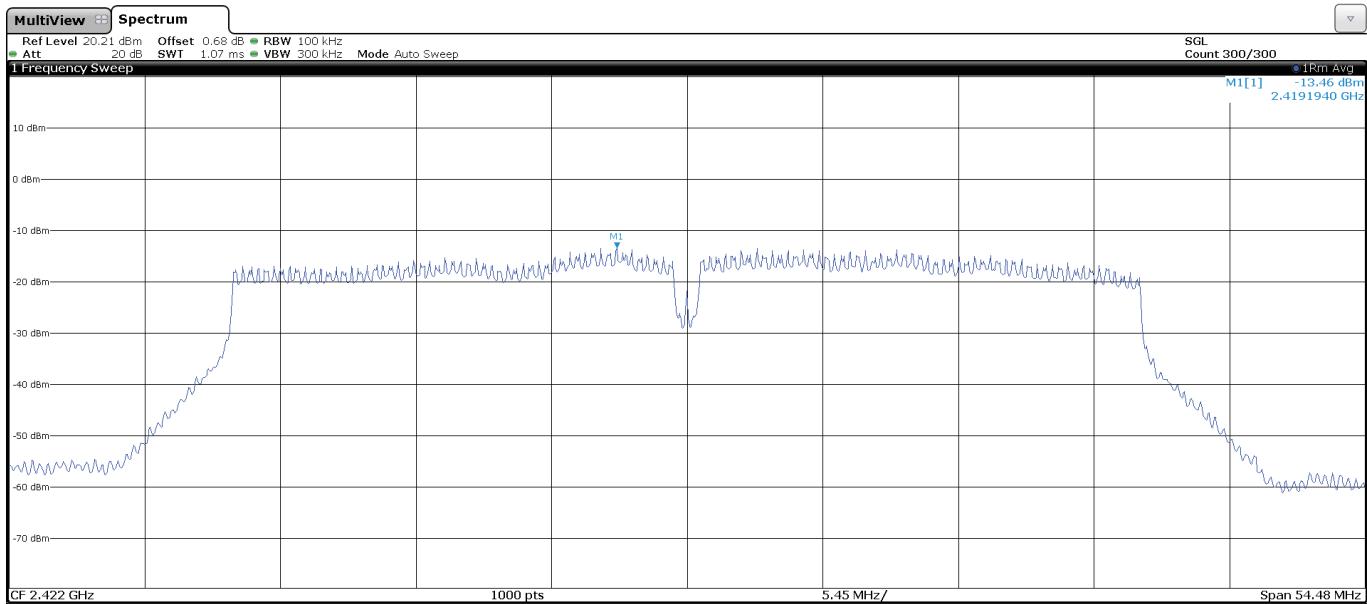
- High Channel:



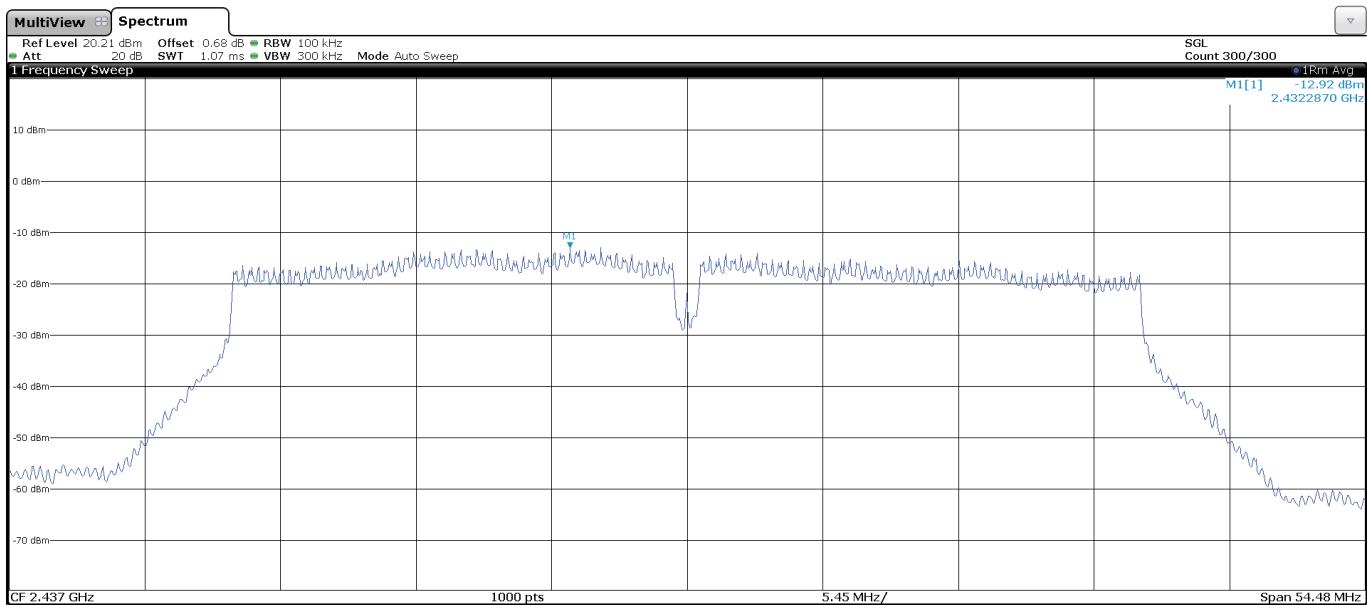
## CHAIN1 – Antenna:

- Mode 802.11 n40 – Power Spectral Density

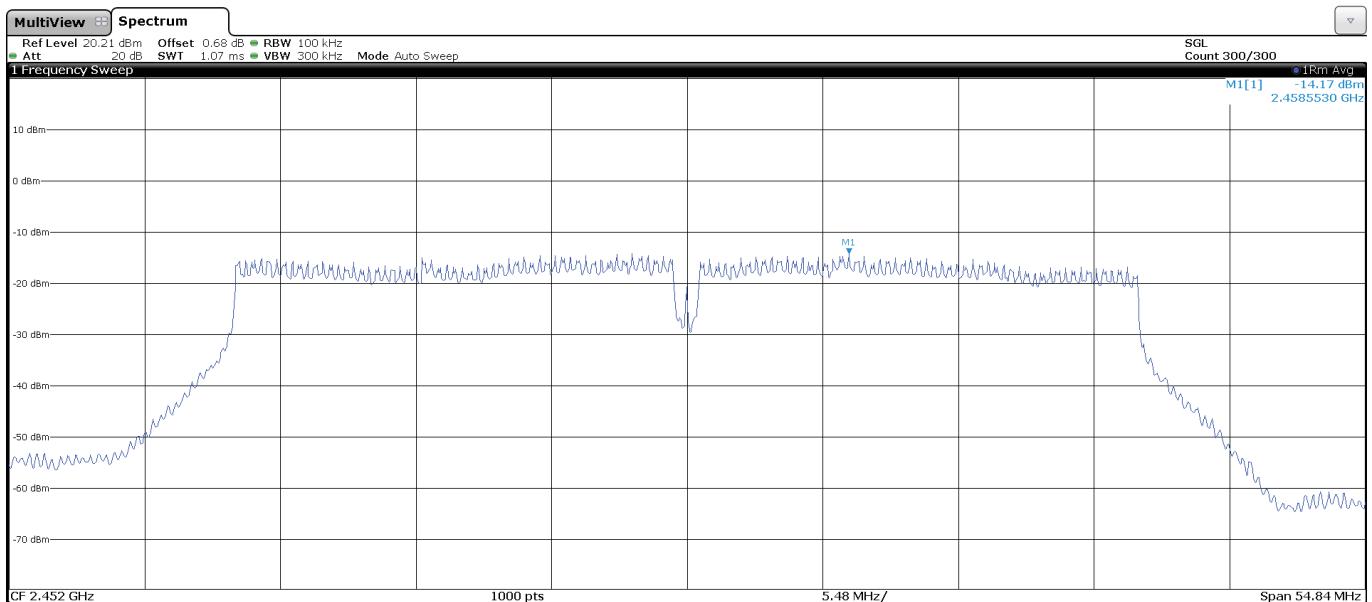
- Low Channel:



- Middle Channel:



- High Channel:



## MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

- Mode 802.11 b – Power Spectral Density

- Low Channel:

CHAIN0



CHAIN1



- Middle Channel:

CHAIN0



CHAIN1



- High Channel:

CHAIN0



CHAIN1

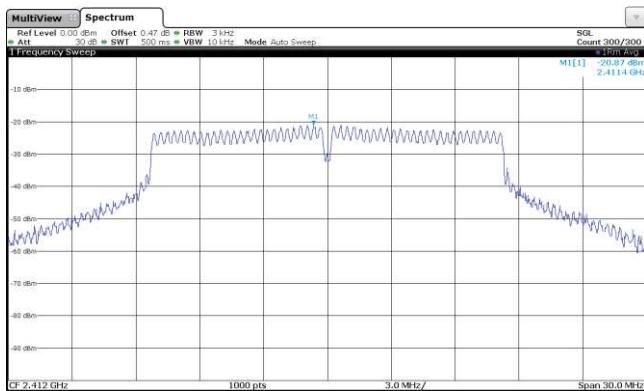


## MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

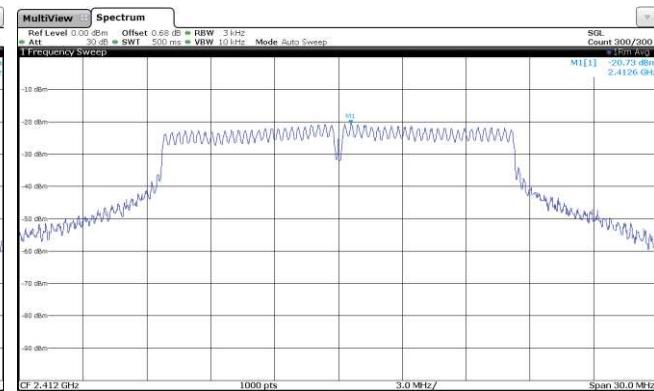
- Mode 802.11 g – Power Spectral Density

- Low Channel:

CHAIN0

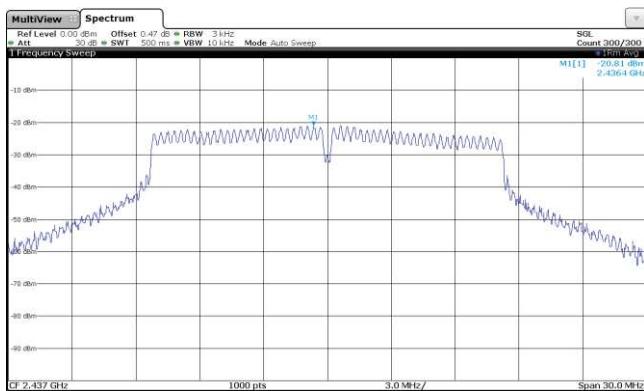


CHAIN1

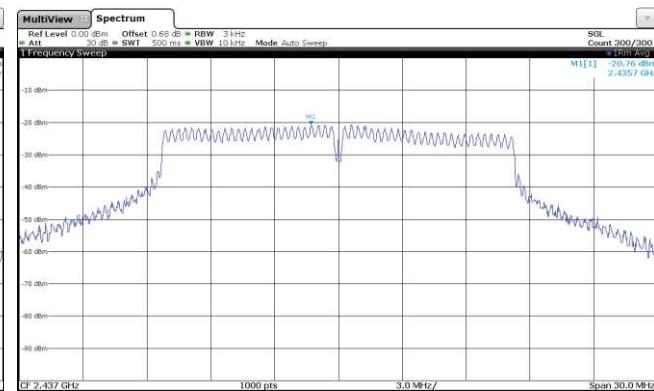


- Middle Channel:

CHAIN0

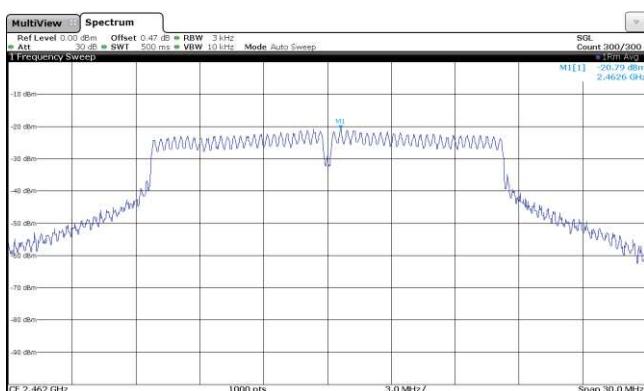


CHAIN1

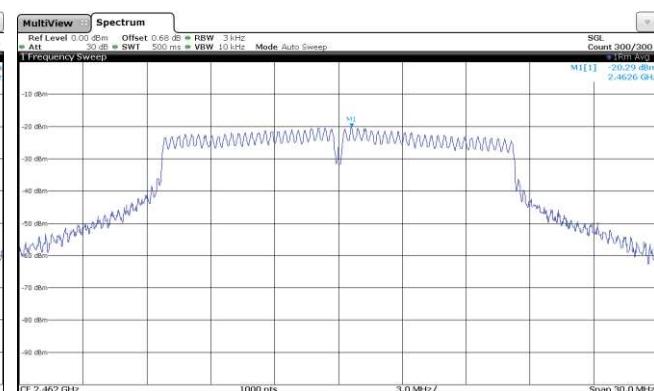


- High Channel:

CHAIN0



CHAIN1

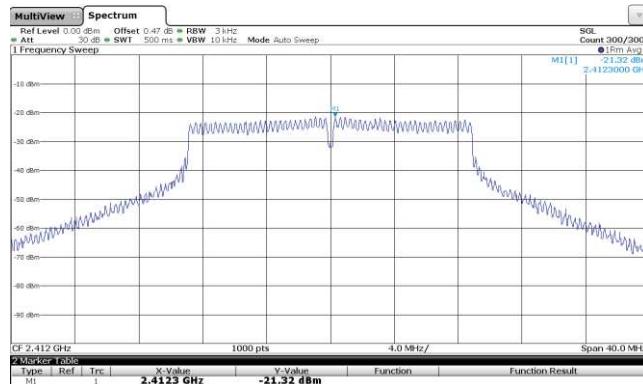


## MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

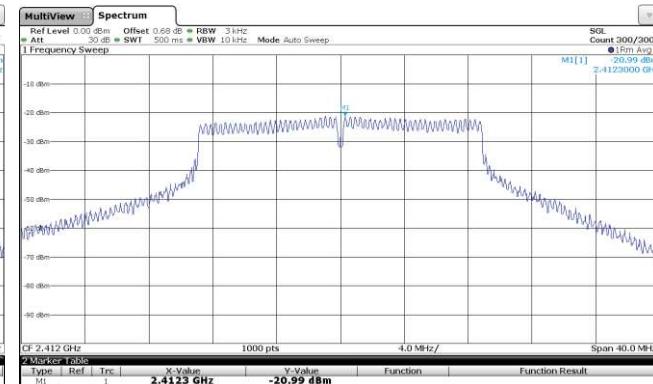
- Mode 802.11 n20 – Power Spectral Density

- Low Channel:

CHAIN0

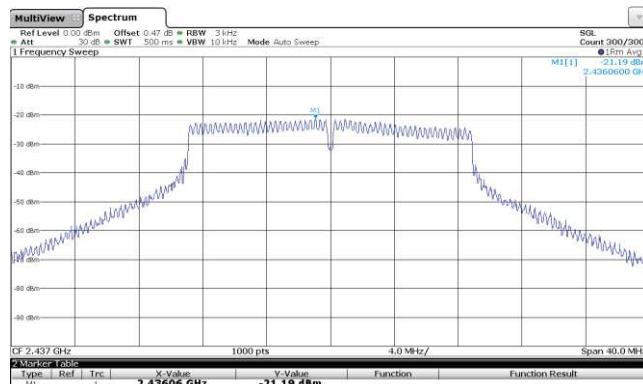


CHAIN1

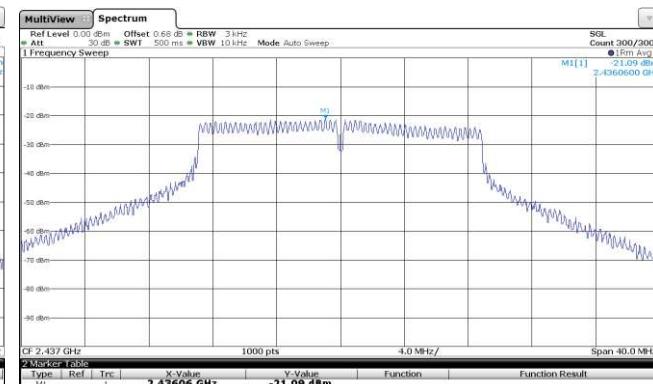


- Middle Channel:

CHAIN0

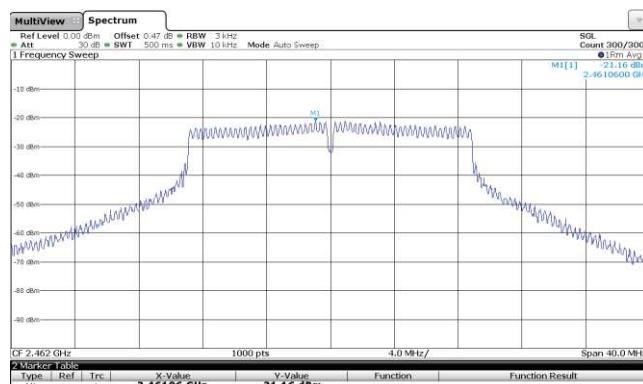


CHAIN1

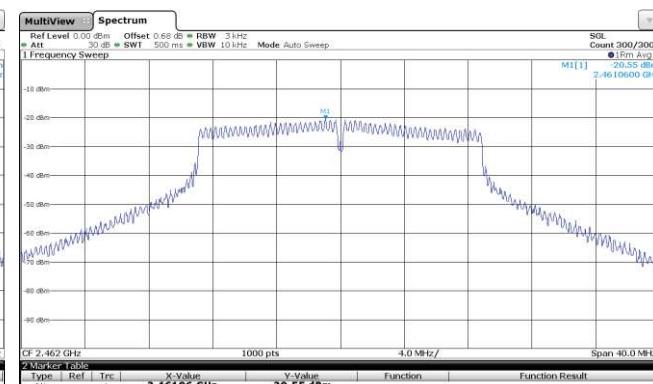


- High Channel:

CHAIN0



CHAIN1

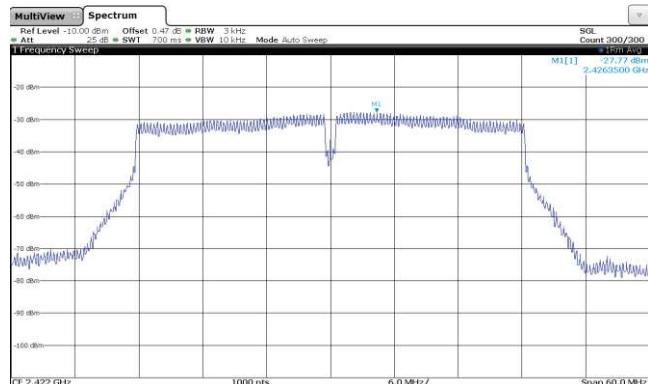


## MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

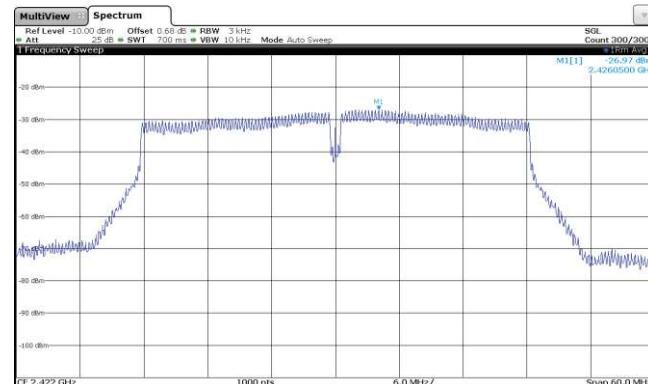
- Mode 802.11 n40 – Power Spectral Density

- Low Channel:

CHAIN0

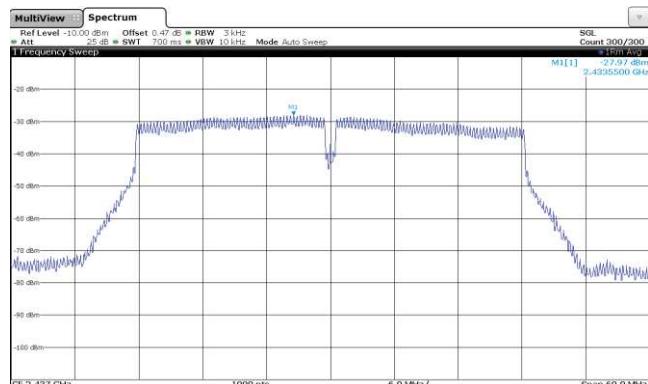


CHAIN1

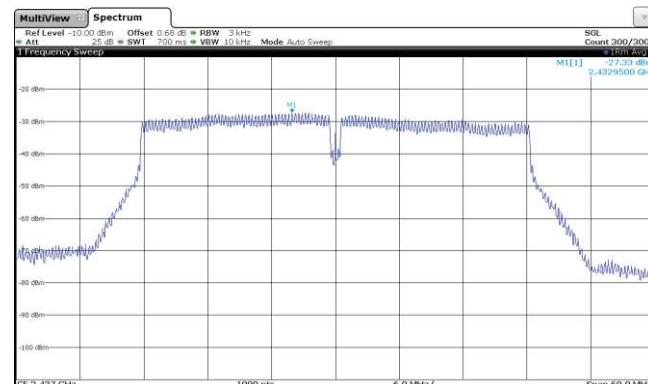


- Middle Channel:

CHAIN0

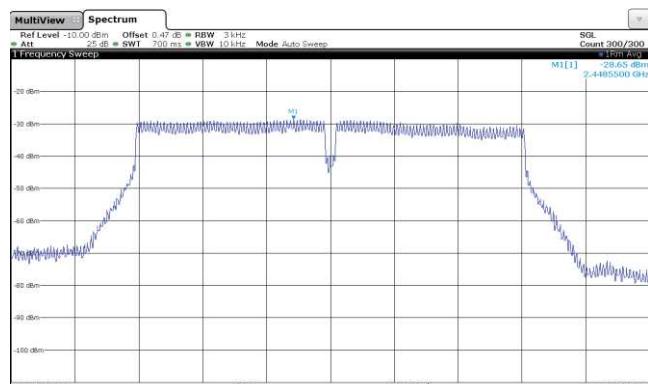


CHAIN1

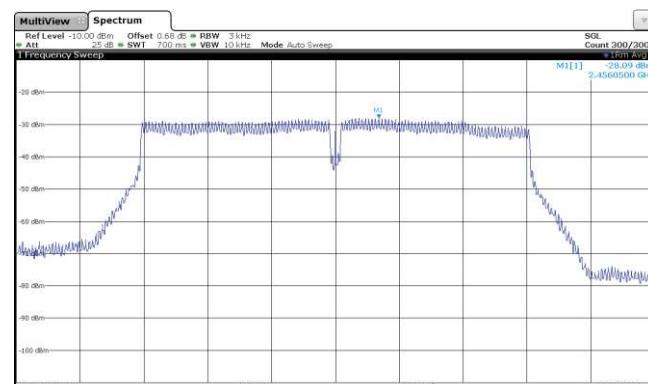


- High Channel:

CHAIN0



CHAIN1



## FCC Section 15.247 Subclause (d) / RSS-247 Clause 5.5. Emission limitations radiated (Transmitter)

### SPECIFICATION:

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 §15.205(c) / RSS-Gen):

Frequency Range (MHz)	Field strength ( $\mu$ V/m)	Field strength (dB $\mu$ V/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705 - 30.0	30	-	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
960 - 25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

For average radiated emission measurements above 1000 MHz, there is also a limit corresponding to 20 dB above the indicated values in the table is specified when measuring with peak detector function.

### RESULTS:

The situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

Measurements were made in both horizontal and vertical planes of polarization.

All tests were performed in a semi-anechoic chamber at a distance of 3 m for the frequency range 30 MHz-1000 MHz and at distance of 1m for the frequency range 1 GHz-26 GHz.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain.

## CHAIN1 – Antenna:

- Mode 802.11 b

### Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies closest to the limit:

Spurious frequency (MHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
52.1	Quasi peak	21.9	V	<± 3.88
88.572	Quasi peak	26.8	V	<± 3.88

### Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.38996	Peak	52.28	H	<±3.70
7.23757	Peak	53.28	H	<± 3.70

- MIDDLE CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
7.3099	Peak	50.47	H	<± 3.70

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.48402	Peak	61.28	H	<±3.70
	Average	42.38		
7.38503	Peak	52.67	V	<± 3.70

Verdict: PASS

For spurious emissions in the range 30 MHz - 26 GHz (except field strength at the band edges that was performed for all modes) a preliminary scan was performed to determine the worst case mode. Herein the results for the worst case mode: 802.11g.

Spurious emissions in the Restricted Band 1 and Restricted Band 2 are measured for all modes.

- **Mode 802.11 g (OFDM worst case for spurious emissions)**

**Frequency range 30 MHz - 1 GHz:**

The spurious frequencies do not depend on the operating channel.

Spurious frequencies closest to the limit:

Spurious frequency (MHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
55.204	Quasi peak	28.6	V	<± 3.88

**Frequency range 1 - 26 GHz:**

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
1.37963	Peak	54.35	H	<± 3.70
	Average	36.48		
2.38992	Peak	65.51	H	<± 3.70
	Average	52.88		
7.24403	Peak	44.41	H	<± 3.70

- MIDDLE CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
7.30943	Peak	49.84	H	<± 3.70

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.48371	Peak	58.4	H	<±3.70
	Average	47.96		
7.38597	Peak	49.85	V	<± 3.70

Verdict: PASS

- **Mode 802.11 n20**

The results in the next tables show the maximum measured levels in the Restricted Bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious frequencies with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.39	Peak	66.24	H	<±3.70
	Average	53.54(*)		

(\*) For emissions in restricted band, the integration method was used according to ANSI C63.10-2013 Section 11.13.3.

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.4835107	Peak	59.65	H	<±3.70
	Average	48.35		

Verdict: PASS

- **Mode 802.11 n40**

The results in the next tables show the maximum measured levels in the Restricted Bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious frequencies with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.38891	Peak	62.51	H	<±3.70
	Average	53.62		

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.4854533	Peak	62.64	H	<±3.70
	Average	53.28		

Verdict: PASS

#### MIMO – CHAIN0 Antenna & CHAIN1 Antenna:

- Mode 802.11 b

#### Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies closest to the limit:

Spurious frequency (MHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
34.058	Quasi peak	23.9	V	<± 3.88
54.816	Quasi peak	28	V	<± 3.88
56.53	Quasi peak	24.5	H	<± 3.88
91.191	Quasi peak	27.3	V	<± 3.88

#### Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious signals with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.387972	Peak	53.04	H	<±3.07
4.82397	Peak	40.78	V	<±4.90
7.2371	Peak	53.88	H	<±4.90

- MIDDLE CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
7.31223	Peak	49.23	H	<±4.90

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.48858	Peak	65.05	H	<±3.07
	Average	45.52		
2.49033	Peak	58.94	V	<±3.07
	Average	43.33		
7.38457	Peak	50.03	V	<±4.90

Verdict: PASS

For spurious emissions in the range 30 MHz - 26 GHz (except field strength at the band edges that was performed for all modes) a preliminary scan was performed to determine the worst case mode. Herein the results for the worst case mode: 802.11g.

Spurious emissions in the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz are measured for all modes.

- **Mode 802.11 g (OFDM worst case for spurious emissions)**

#### Frequency range 30 MHz - 1 GHz:

The spurious frequencies do not depend on the operating channel.

Spurious frequencies closest to the limit:

Spurious frequency (MHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
32.797	Quasi peak	25.3	V	<± 3.88
88.637	Quasi peak	26.8	V	<± 3.88

#### Frequency range 1 - 26 GHz:

The results in the next tables show the maximum measured levels in the 1-26 GHz range including the restricted bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious frequencies with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.38962	Peak	63.51	H	<±3.07
	Average	51.29		
7.23943	Peak	52.46	H	<±4.90

- MIDDLE CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
7.31083	Peak	52.07	V	< $\pm$ 4.90

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.48420	Peak	62.90	V	< $\pm$ 3.07
	Average	45.10		
2.48810	Peak	63.48	H	< $\pm$ 3.07
	Average	42.39		
2.48844	Peak	61.22	H	< $\pm$ 3.07
	Average	43.09		
2.48943	Peak	59.06	V	< $\pm$ 3.07
	Average	40.54		
7.39017	Peak	55.10	H	< $\pm$ 4.90
	Average	43.63		

Verdict: PASS

- **Mode 802.11 n20**

The results in the next tables show the maximum measured levels in the Restricted Bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious frequencies with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.38876	Peak	66.59	H	< $\pm$ 3.07
	Average	53.18		

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.48356	Peak	60.59	H	< $\pm$ 3.07
	Average	48.31		

Verdict: PASS

- Mode 802.11 n40

The results in the next tables show the maximum measured levels in the Restricted Bands 2.31-2.39 GHz and 2.4835-2.5 GHz.

Spurious frequencies with peak levels above the average limit (54 dB $\mu$ V/m at 3 m) are measured with average detector for checking compliance with the average limit.

- LOW CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.38900	Peak	61.73	H	<±3.07
	Average	52.68		

- HIGH CHANNEL. Spurious frequencies closest to the limit:

Spurious frequency (GHz)	Detector	Emission Level (dB $\mu$ V/m)	Polarization	Measurement Uncertainty (dB)
2.48362	Peak	62.35	H	<±3.07
	Average	47.96		

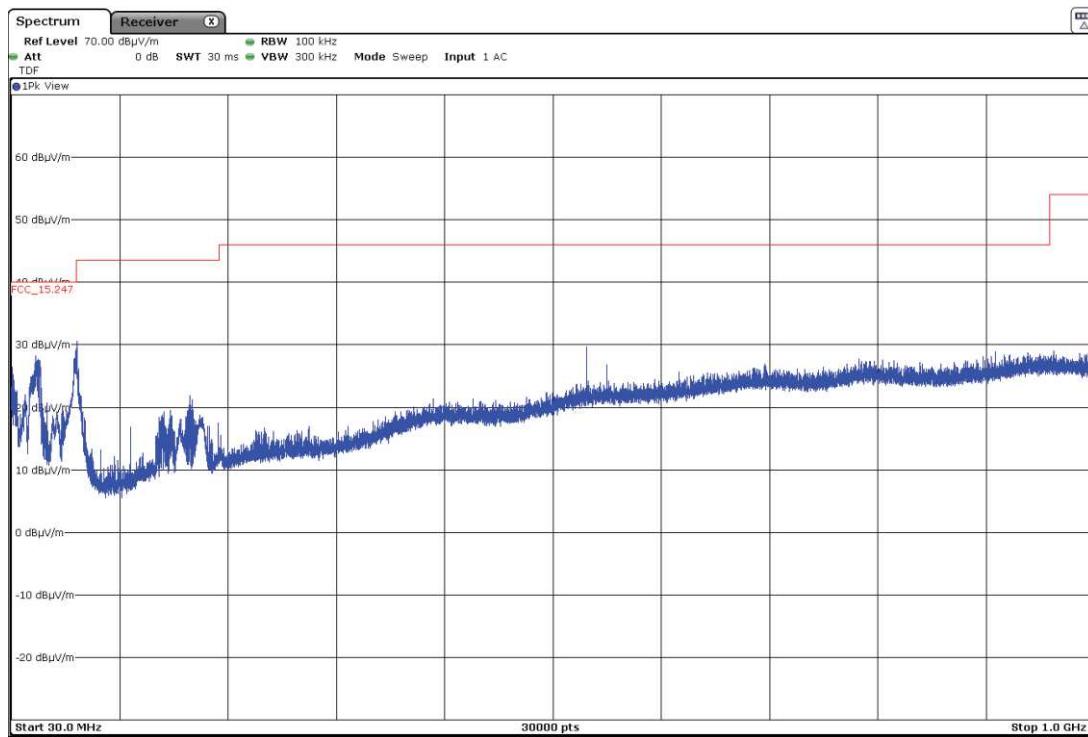
Verdict: PASS

**CHAIN1 – Antenna:**

- **Mode 802.11 b**

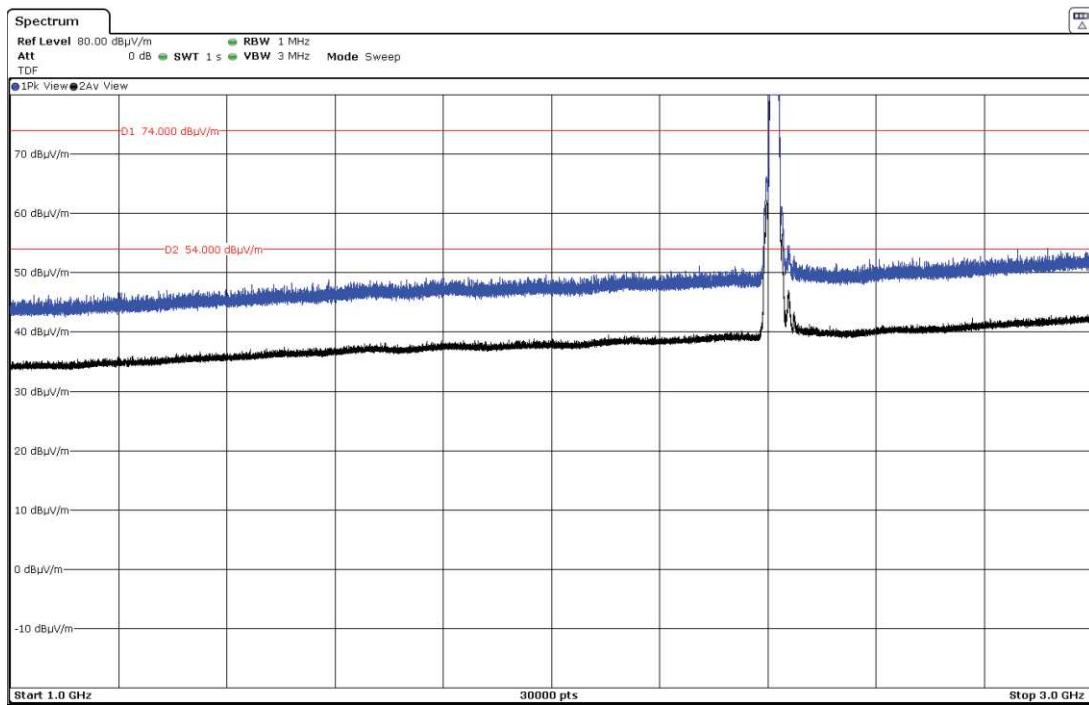
FREQUENCY RANGE 30 MHz - 1 GHz:

The spurious signals detected do not depend on the operating channel.

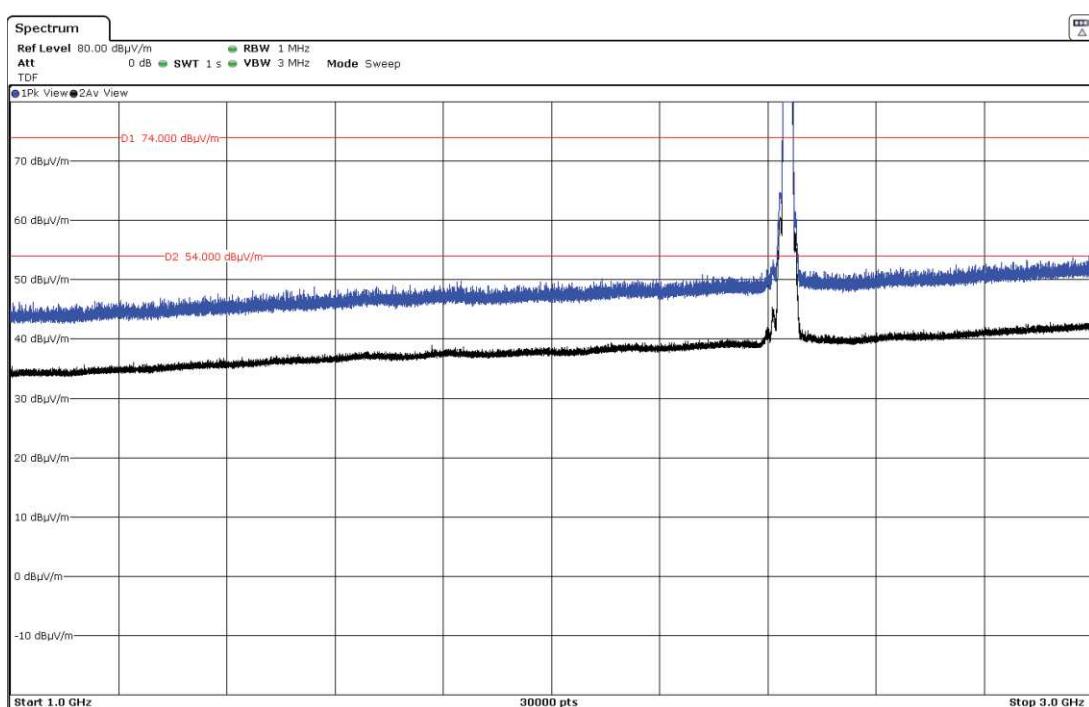


## FREQUENCY RANGE 1 - 3 GHz:

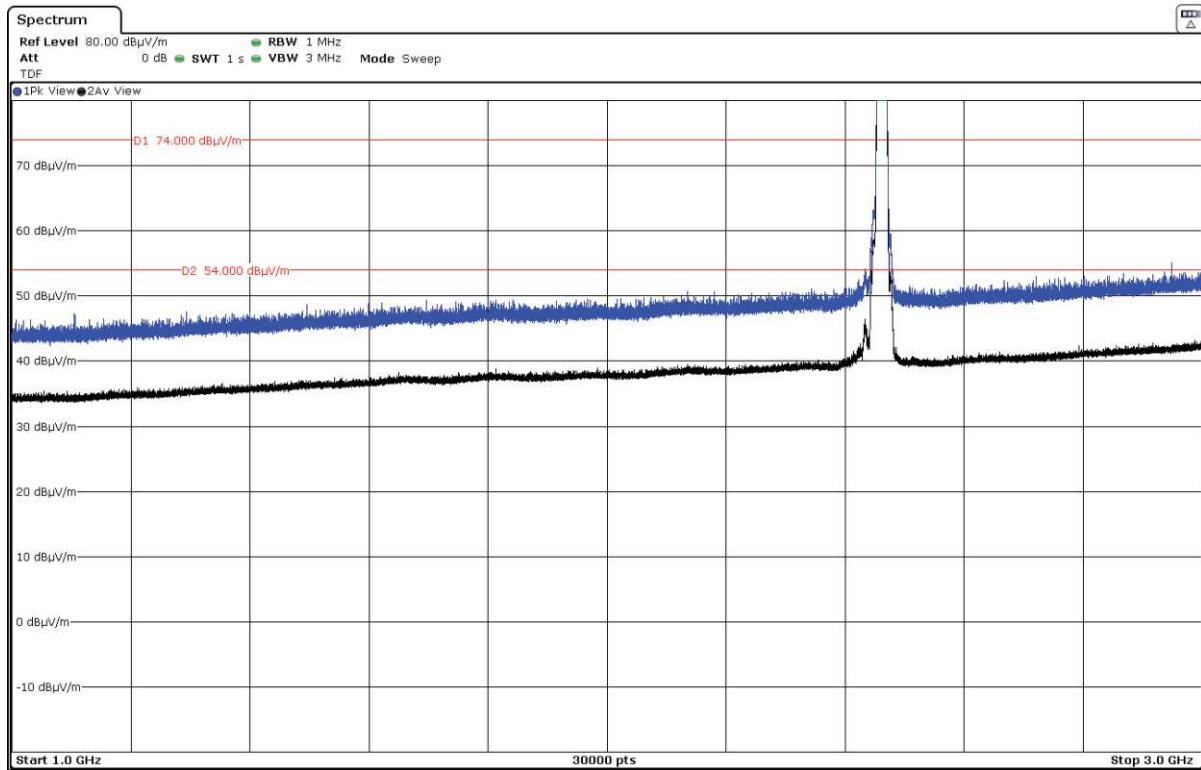
### - Low Channel:



### - Middle Channel:



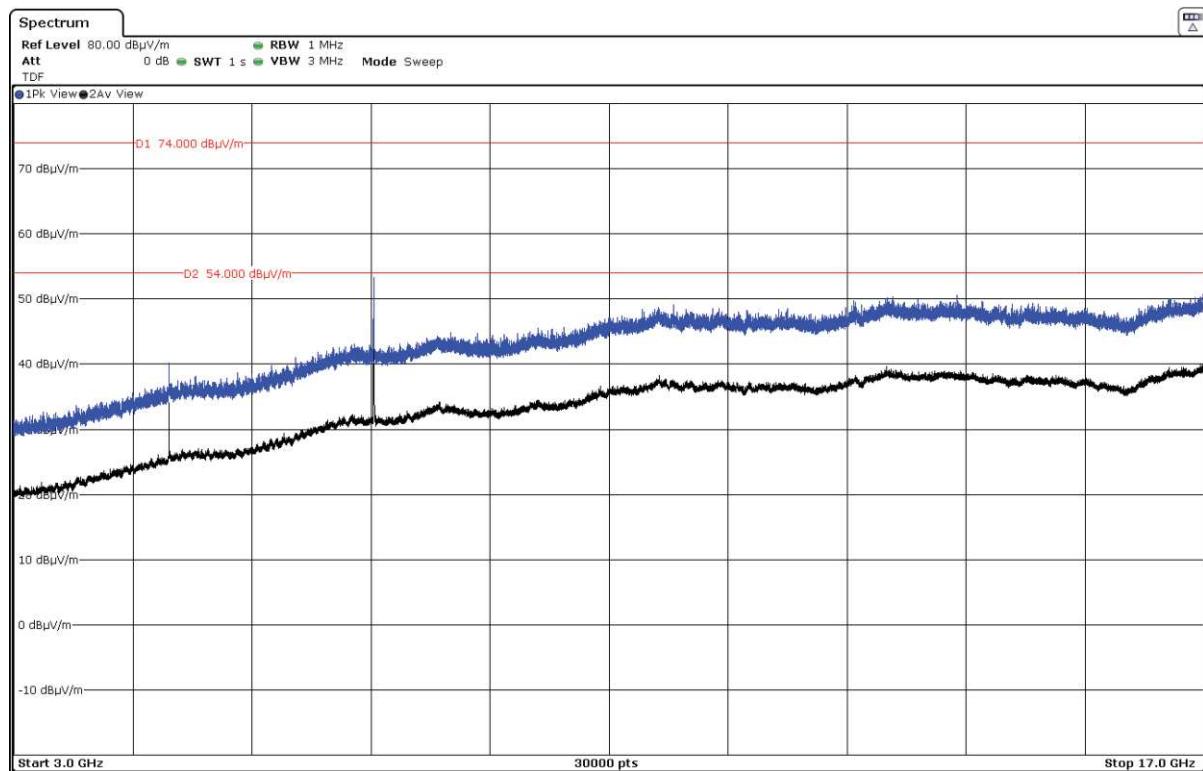
- High Channel:



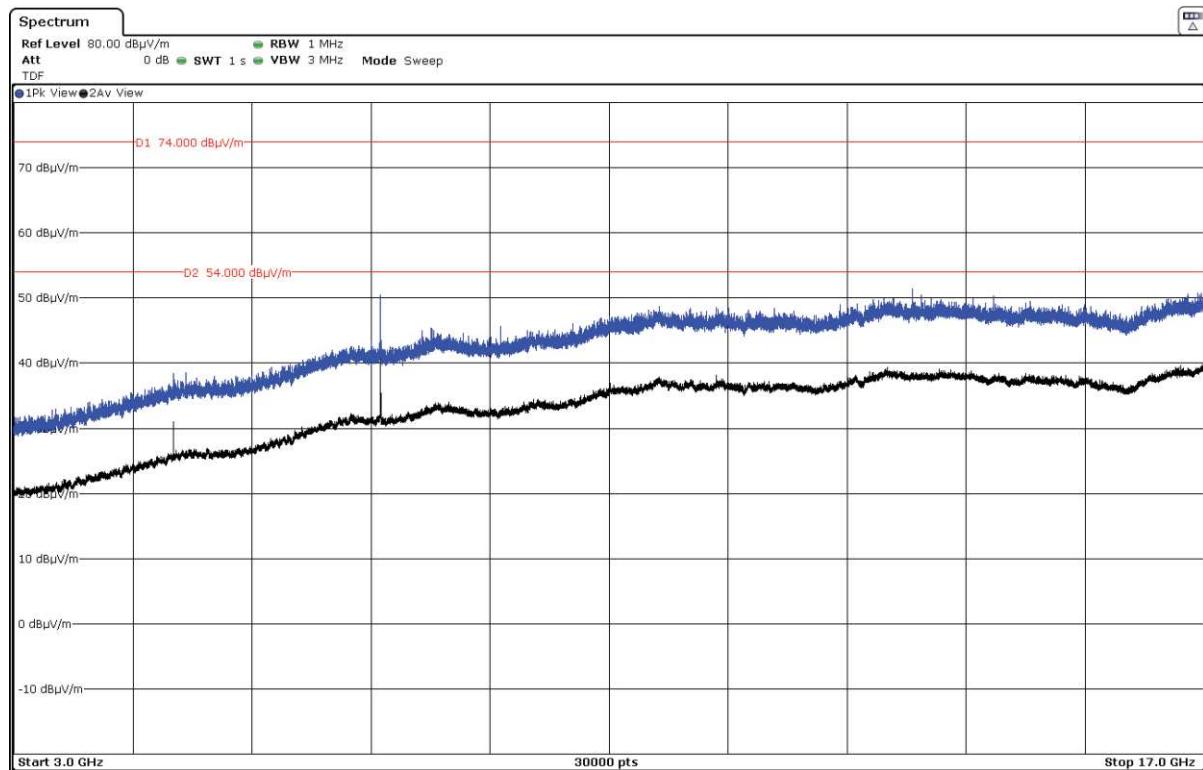
The peak above the limit is the carrier frequency.

FREQUENCY RANGE 3 - 17 GHz:

- Low Channel:



- Middle Channel:



- High Channel:

