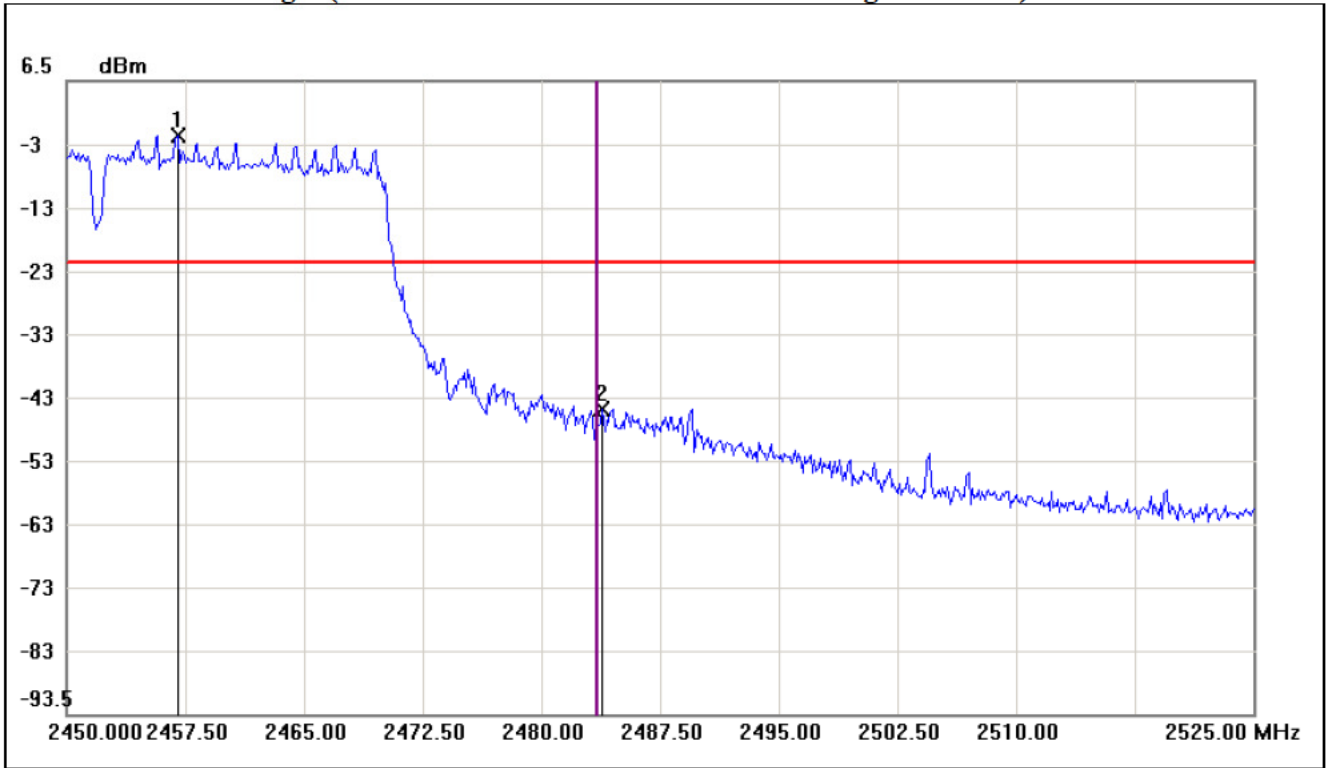




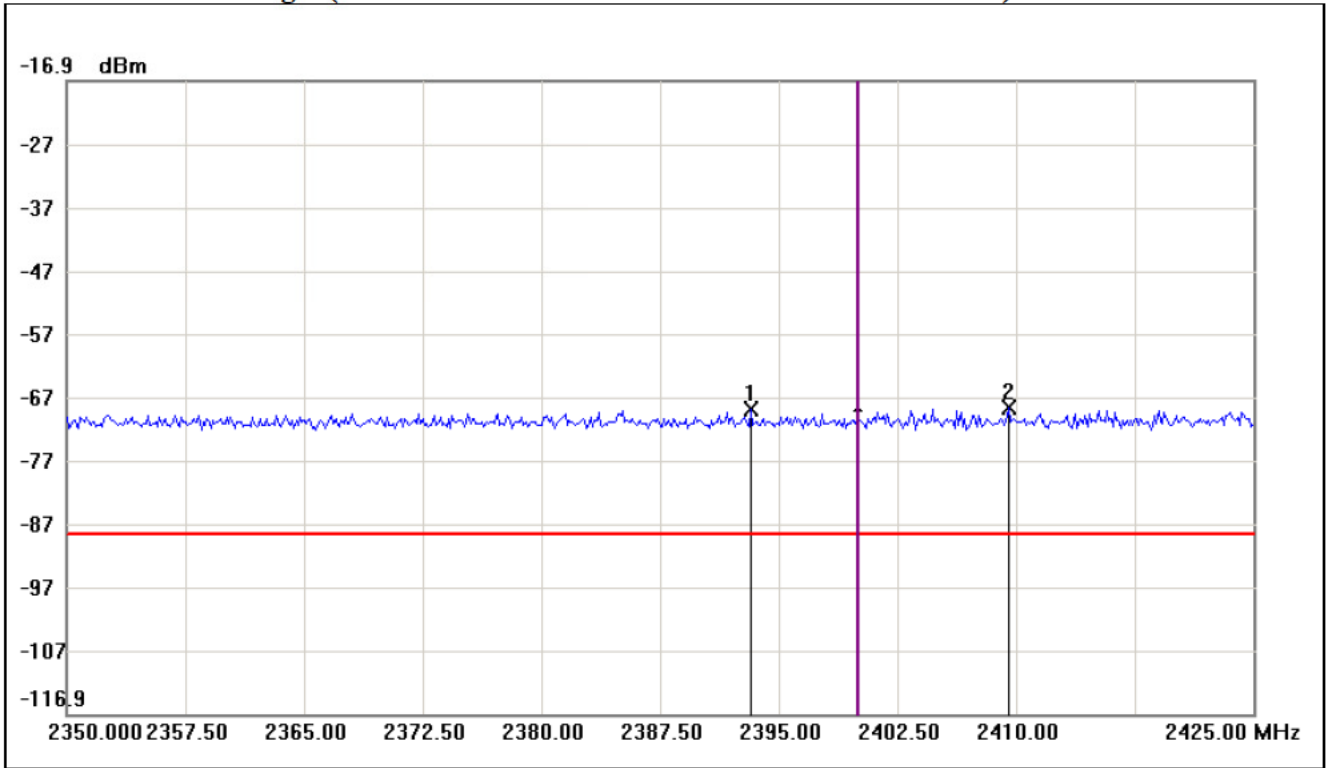
Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / CH High / chain 0)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2457.0000	-2.09	-22.09	20.00
2	2483.8750	-45.28	-22.09	-23.19



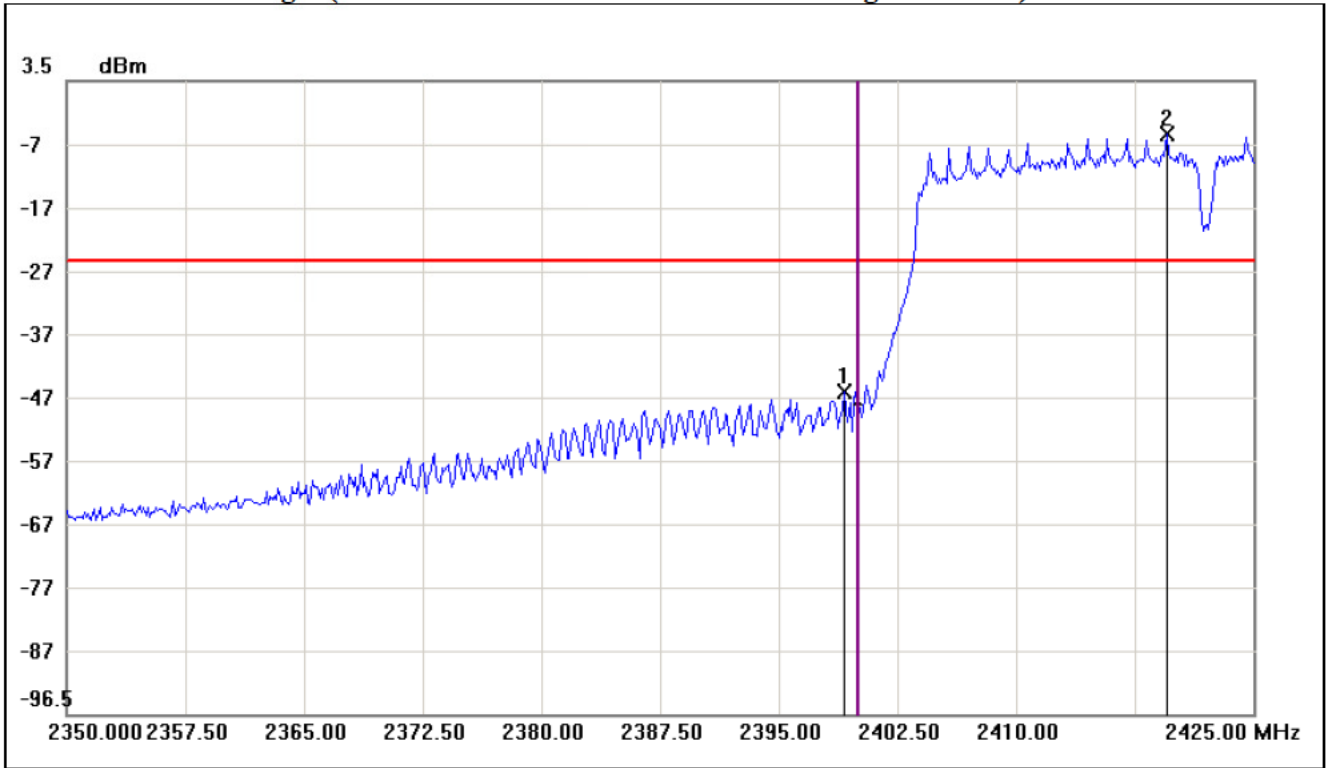
Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / CH Low / chain 1)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2393.2500	-68.85	-88.61	19.76
2	2409.5000	-68.61	-88.61	20.00



Conducted Band Edges (IEEE 802.11n HT 40 MHz mode / CH High / chain 1)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2399.1250	-45.54	-24.89	-20.65
2	2419.5000	-4.89	-24.89	20.00

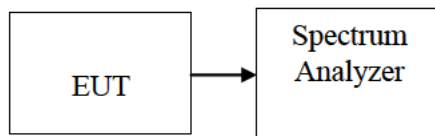


7.5 PEAK POWER SPECTRAL DENSITY

LIMIT

1. 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.
2. 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.

Test Configuration



TEST PROCEDURE

1. Place the EUT on the table and set it in transmitting mode.
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
2. Set the spectrum analyzer as RBW=10kHz, VBW=100kHz, Span=1.5 times the DTS bandwidth, Sweep time= auto
3. Record the max reading.
4. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted.



Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	2.50	8.00	PASS
Mid	2437	5.05		PASS
High	2462	5.46		PASS

Test mode: IEEE 802.11g mode

Channel	Frequency (MHz)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-3.42	8.00	PASS
Mid	2437	-2.13		PASS
High	2462	-2.67		PASS

Test mode: IEEE 802.11n HT 20 MHz mode

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-1.52	-1.33	1.59	8.00	PASS
Mid	2437	-2.14	-1.30	1.31		PASS
High	2462	-3.41	-2.31	0.19		PASS

Test mode: IEEE 802.11n HT 40 MHz mode

Channel	Frequency (MHz)	Chain 0 PPSD (dBm)	Chain 1 PPSD (dBm)	PPSD (dBm)	Limit (dBm)	Result
Low	2422	-10.34	-9.52	-6.90	8.00	PASS
Mid	2437	-9.96	-8.46	-6.14		PASS
High	2452	-10.36	-9.50	-6.90		PASS

Remark:

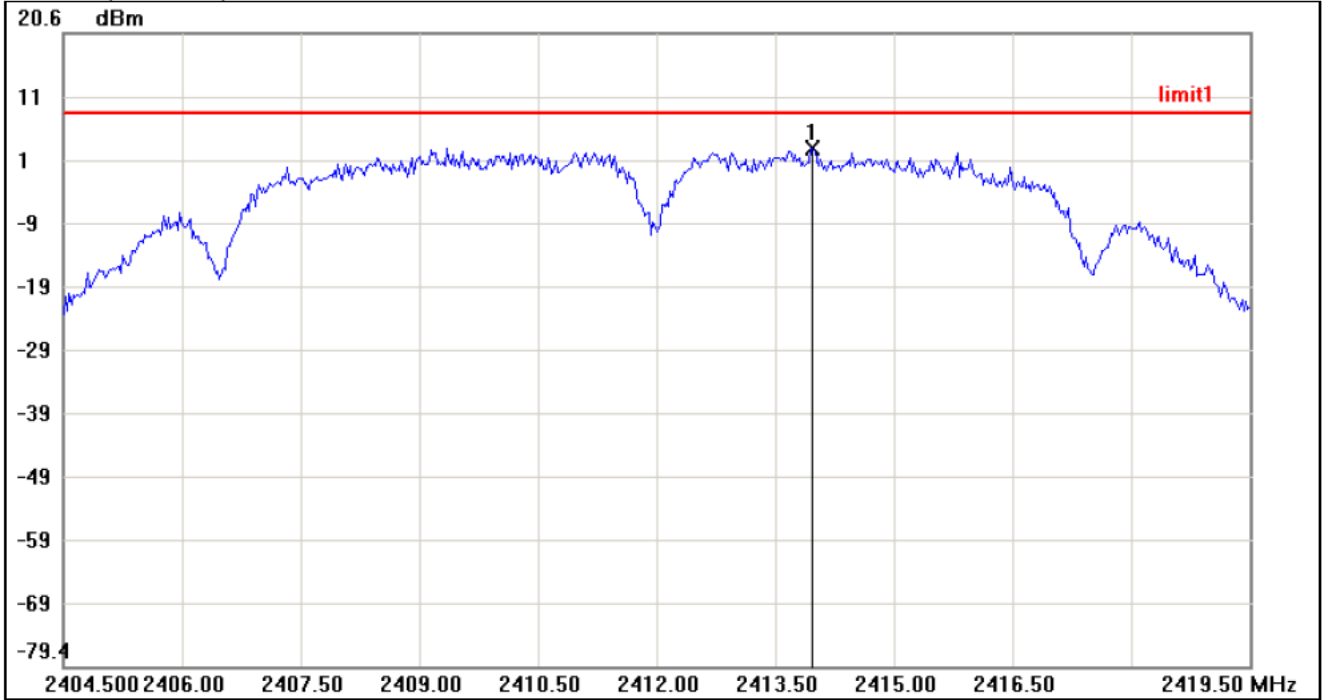
1. Total PPSD (dBm) = 10*LOG(10^(Chain 0 PPSD / 10)+10^(Chain 1 PPSD / 10))



Test Plot

IEEE 802.11b mode

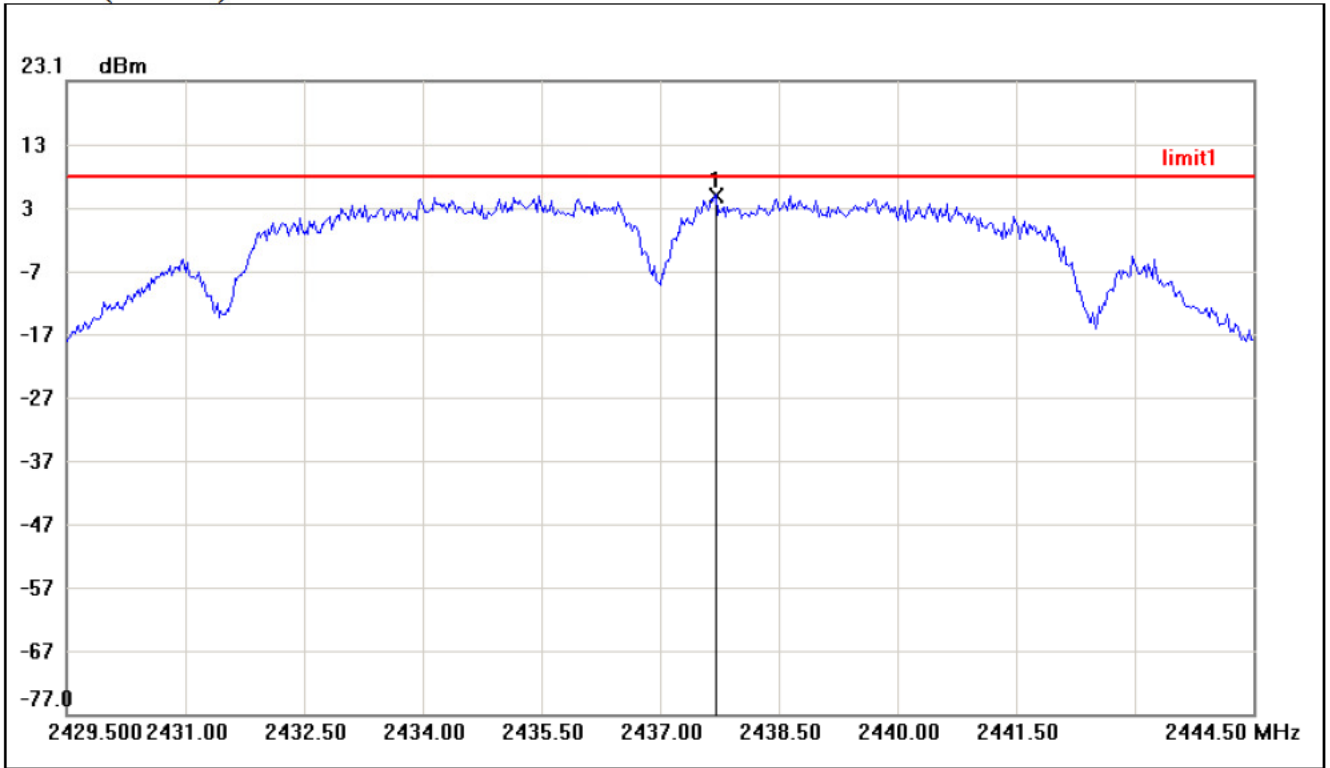
PPSD (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2413.9750	2.50	6.00	-3.50



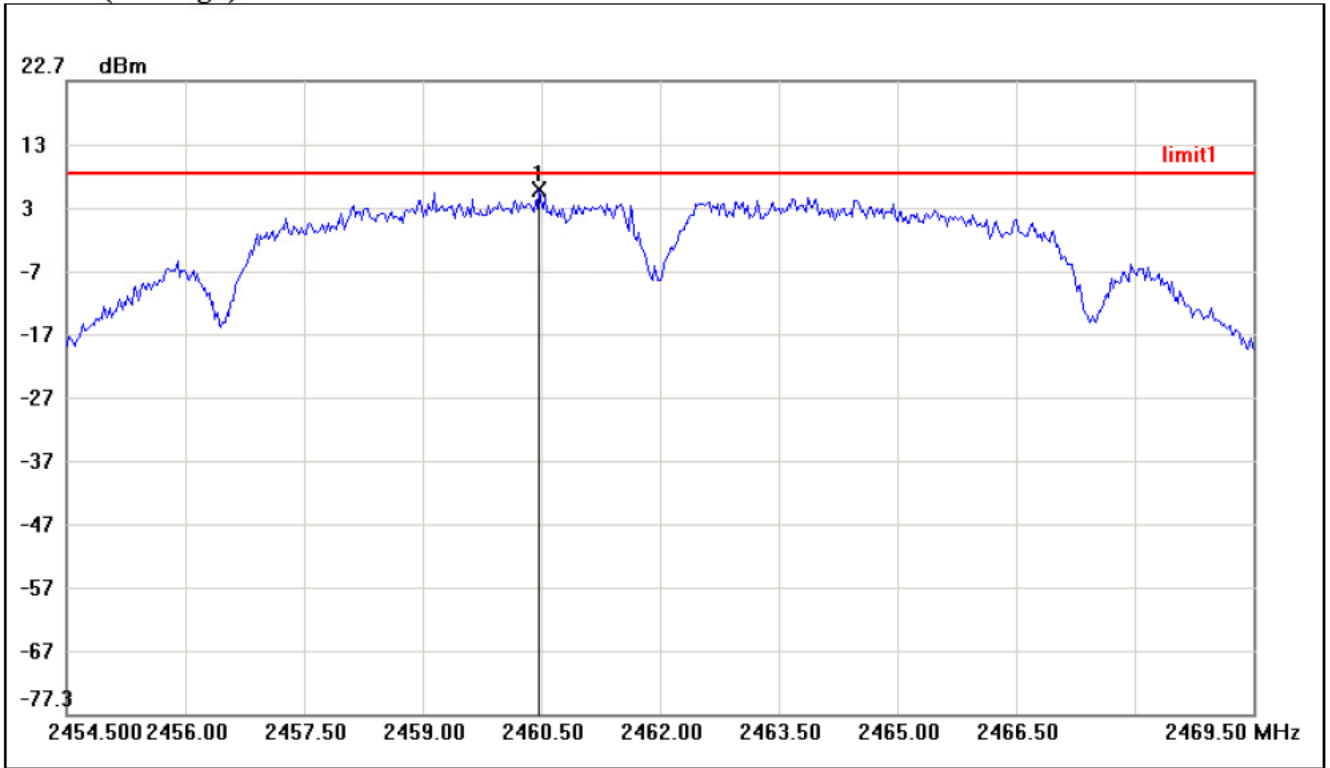
PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2437.7000	5.05	6.00	-0.95



PPSD (CH High)

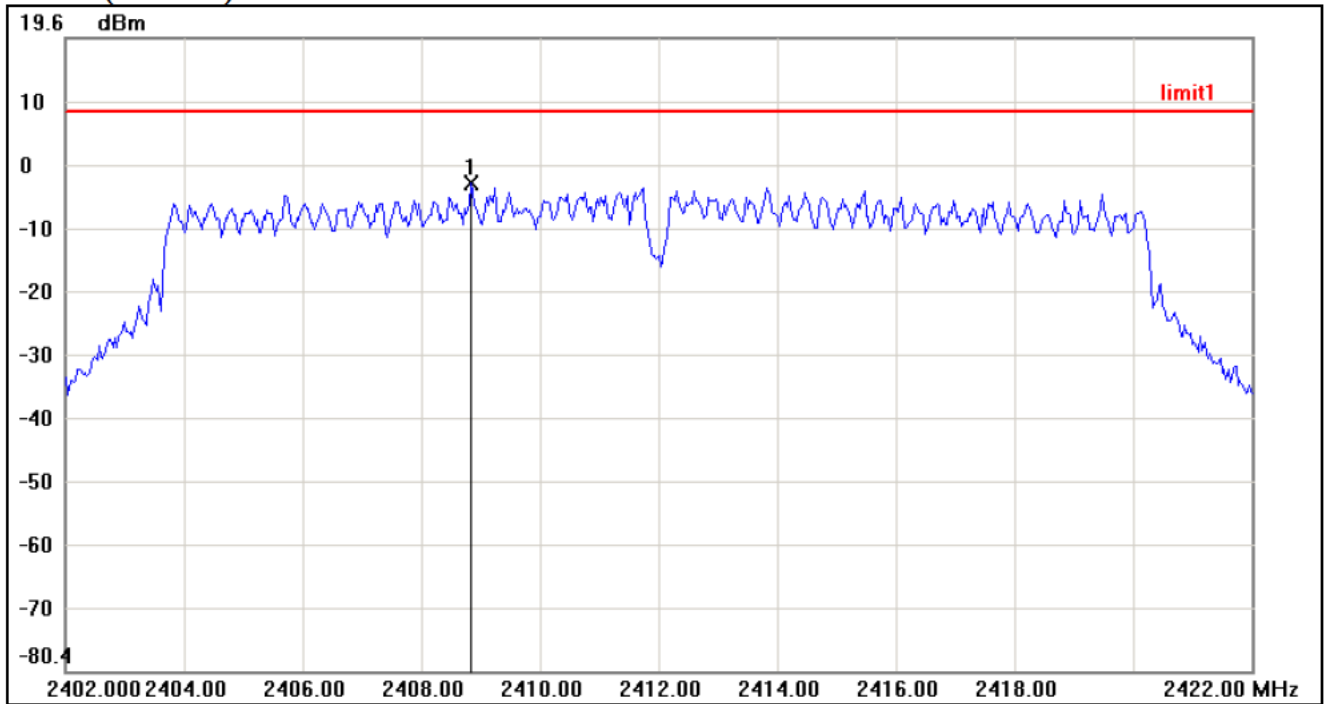


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2460.4750	5.46	6.00	-0.54



IEEE 802.11g mode

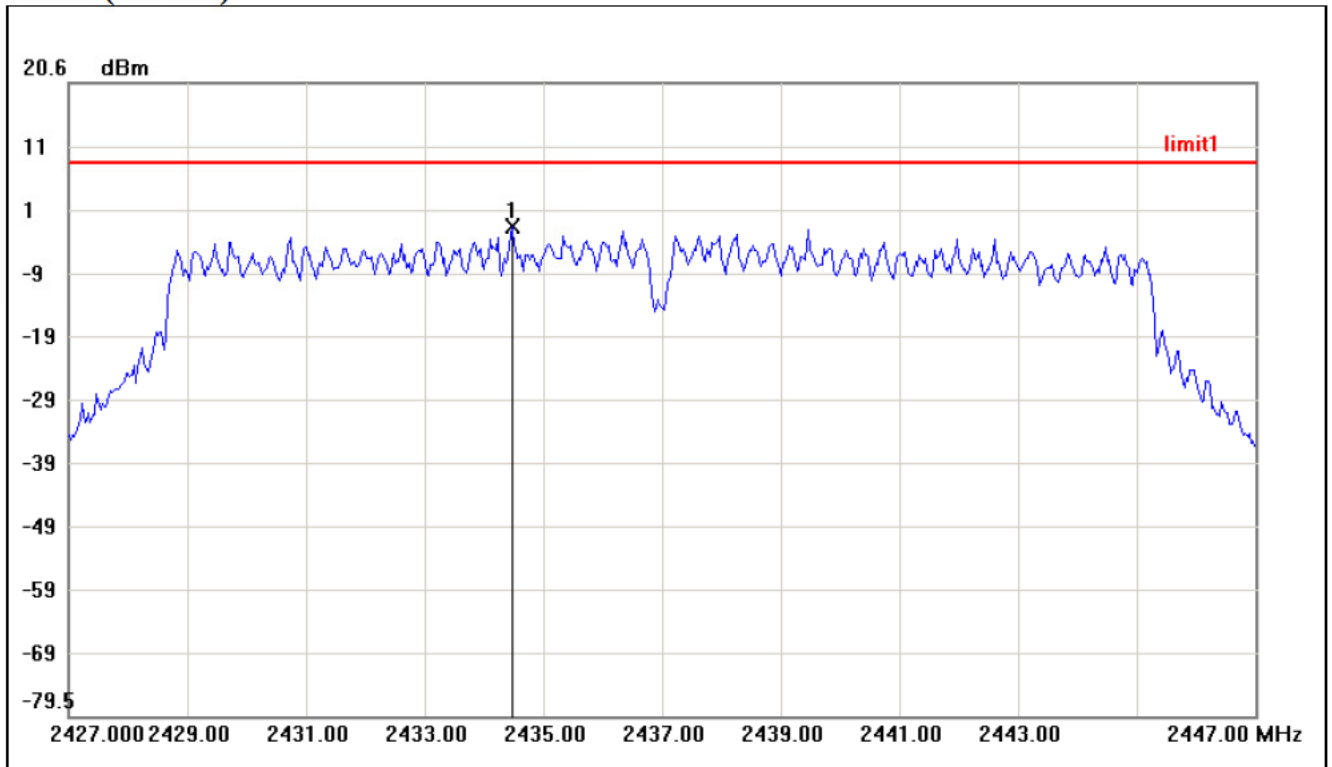
PPSD (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2408.8333	-3.42	6.00	-9.42



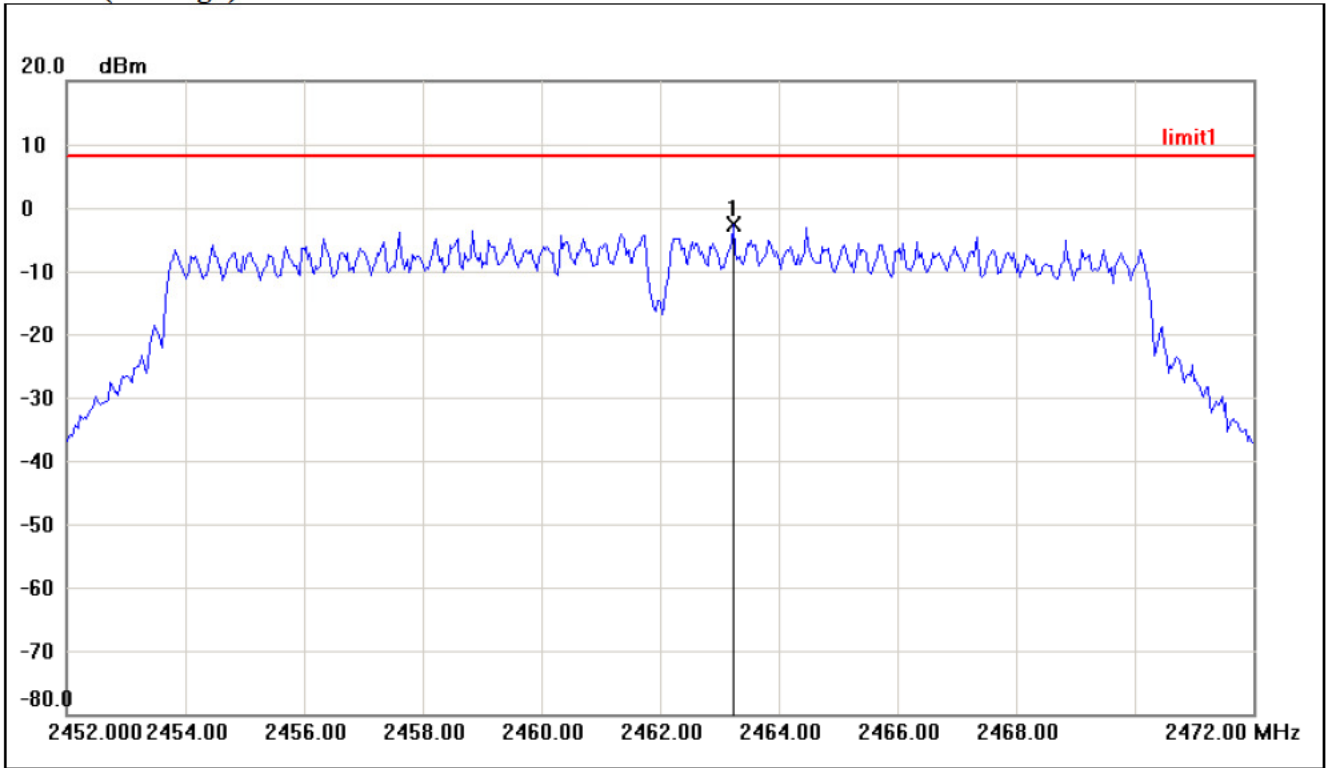
PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2434.4667	-2.13	6.00	-8.13



PPSD (CH High)

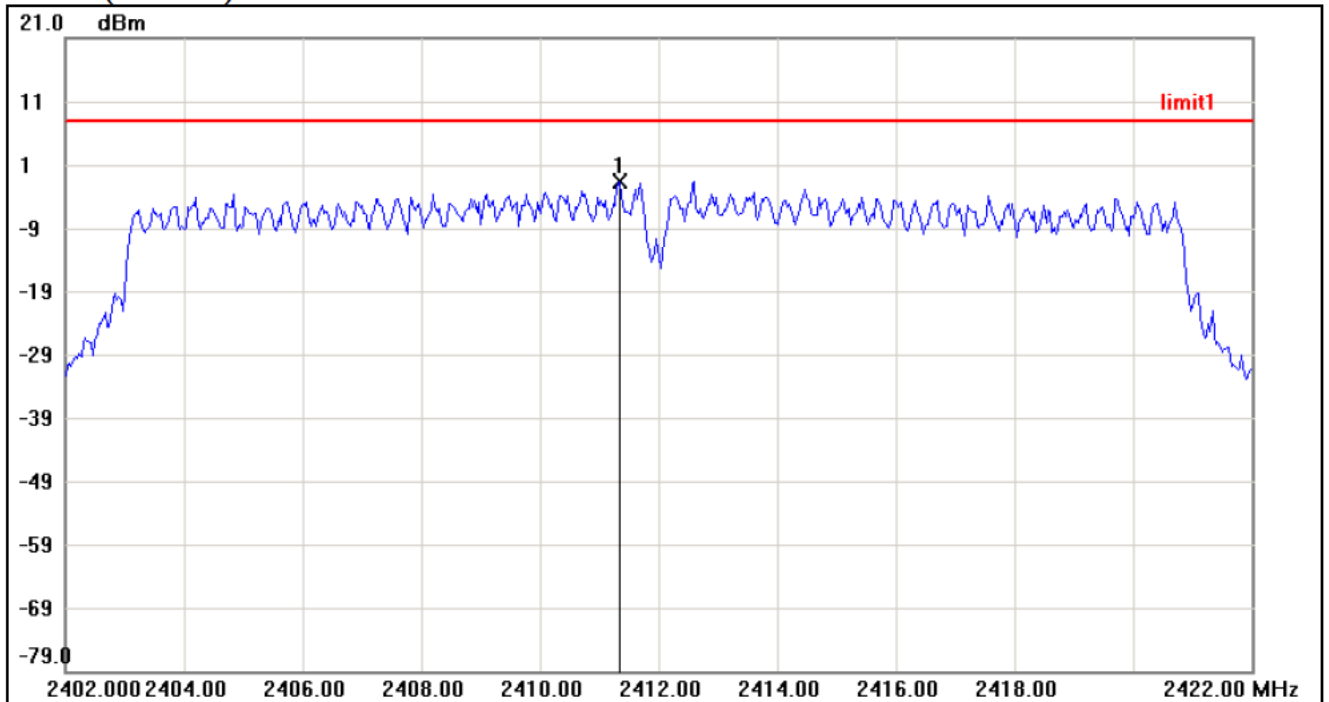


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2463.2333	-2.67	6.00	-8.67



IEEE 802.11n HT 20 MHz mode / Chain 0

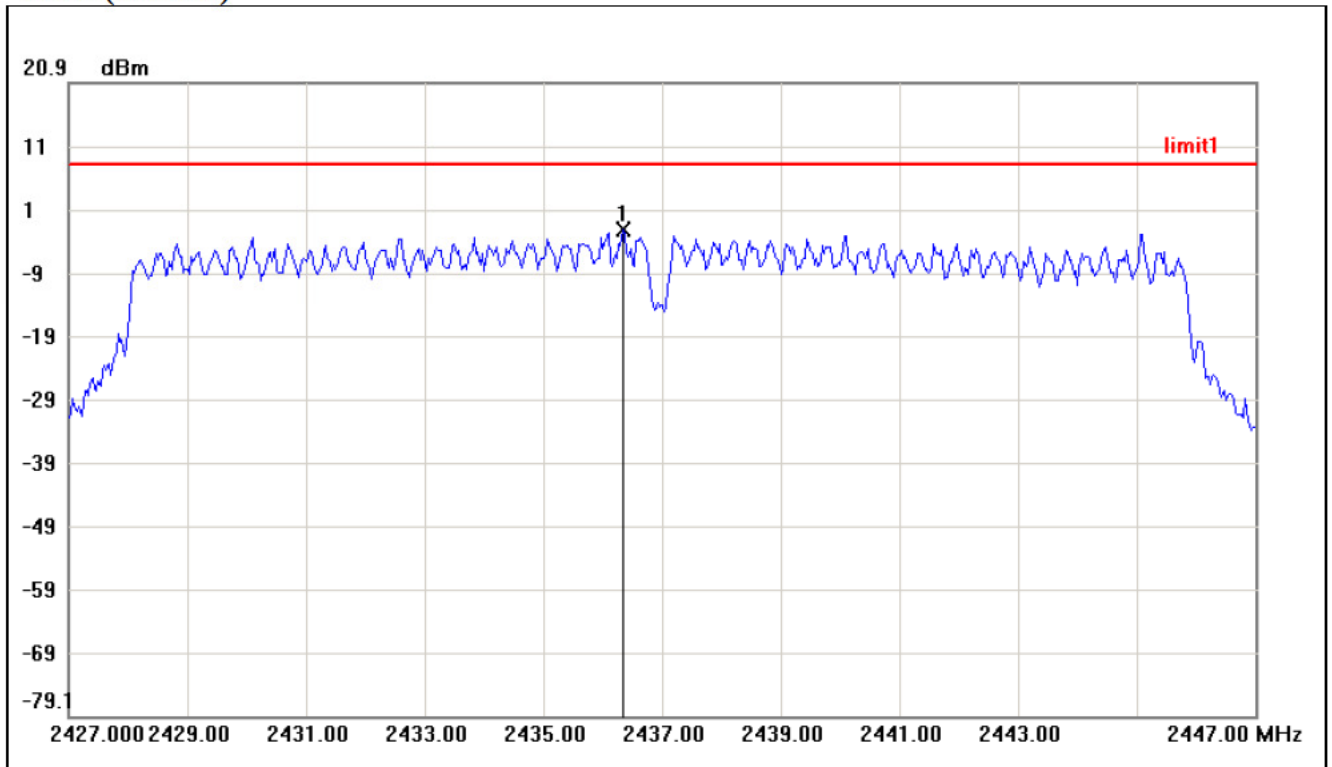
PPSD (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2411.3333	-1.52	6.00	-7.52



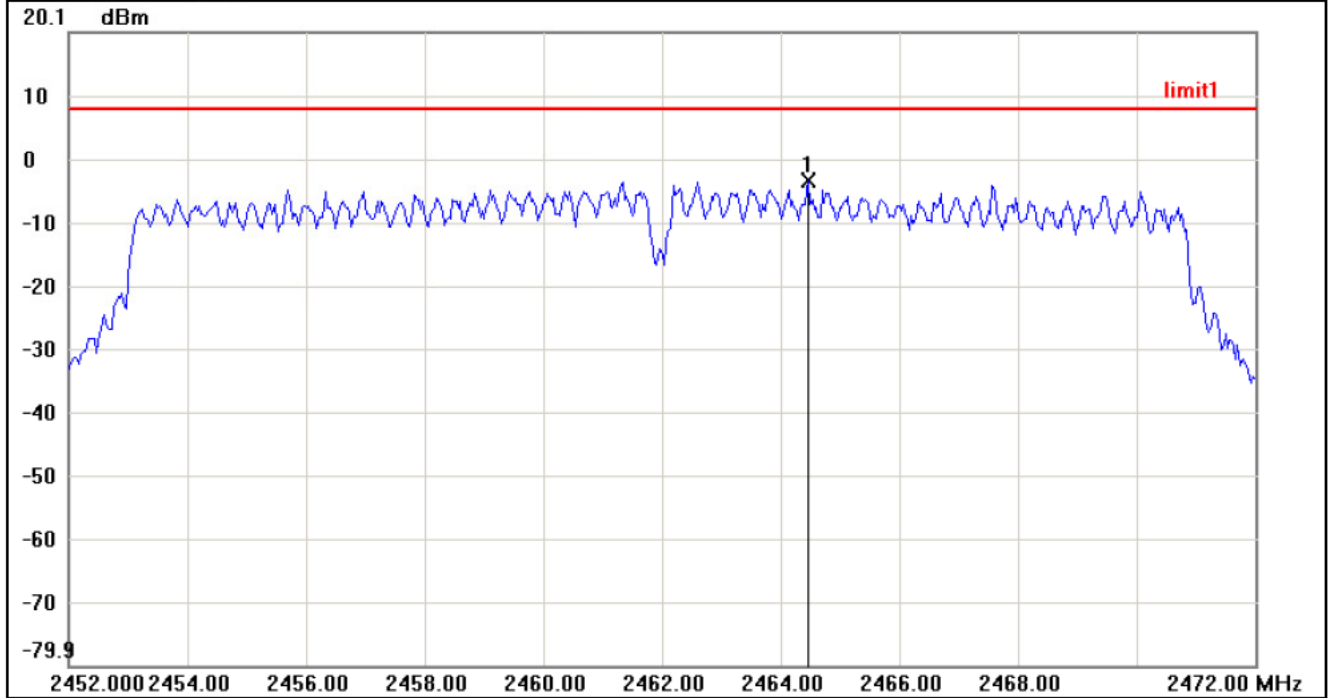
PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2436.3333	-2.14	6.00	-8.14



PPSD (CH High)

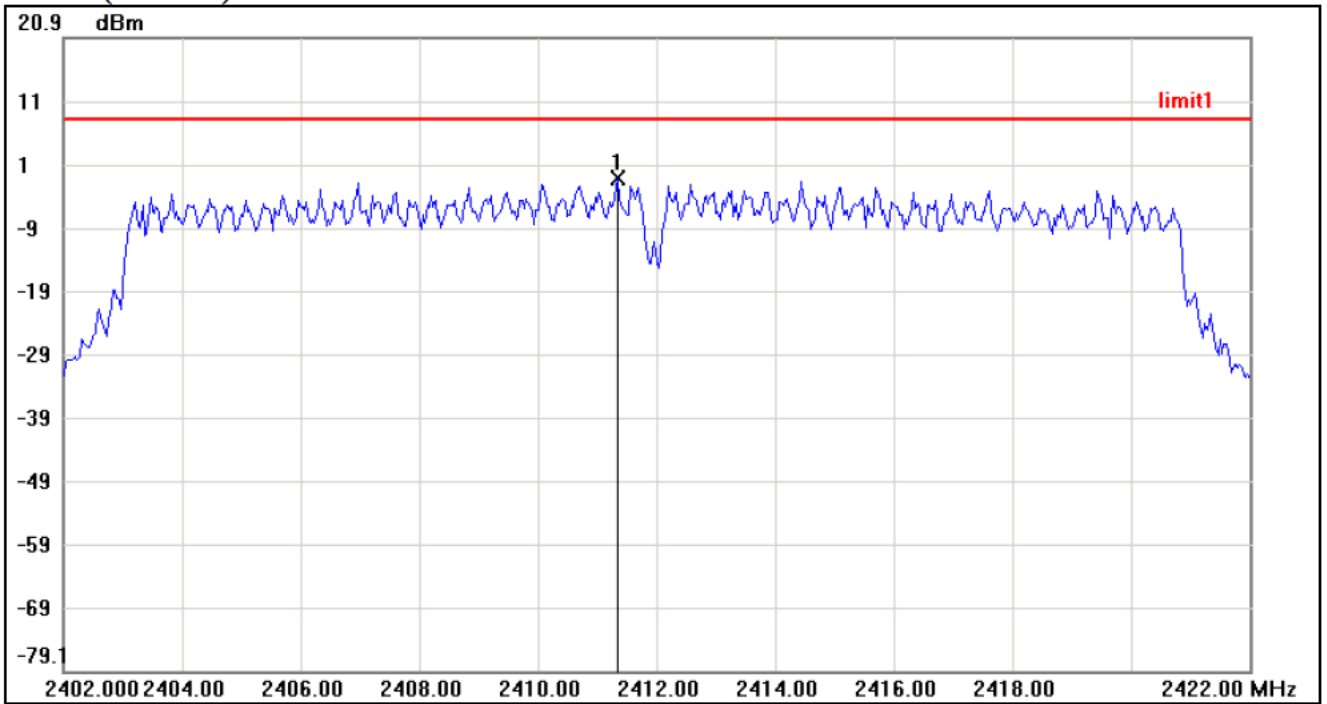


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2464.4667	-3.41	6.00	-9.41



IEEE 802.11n HT 20 MHz mode / Chain 1

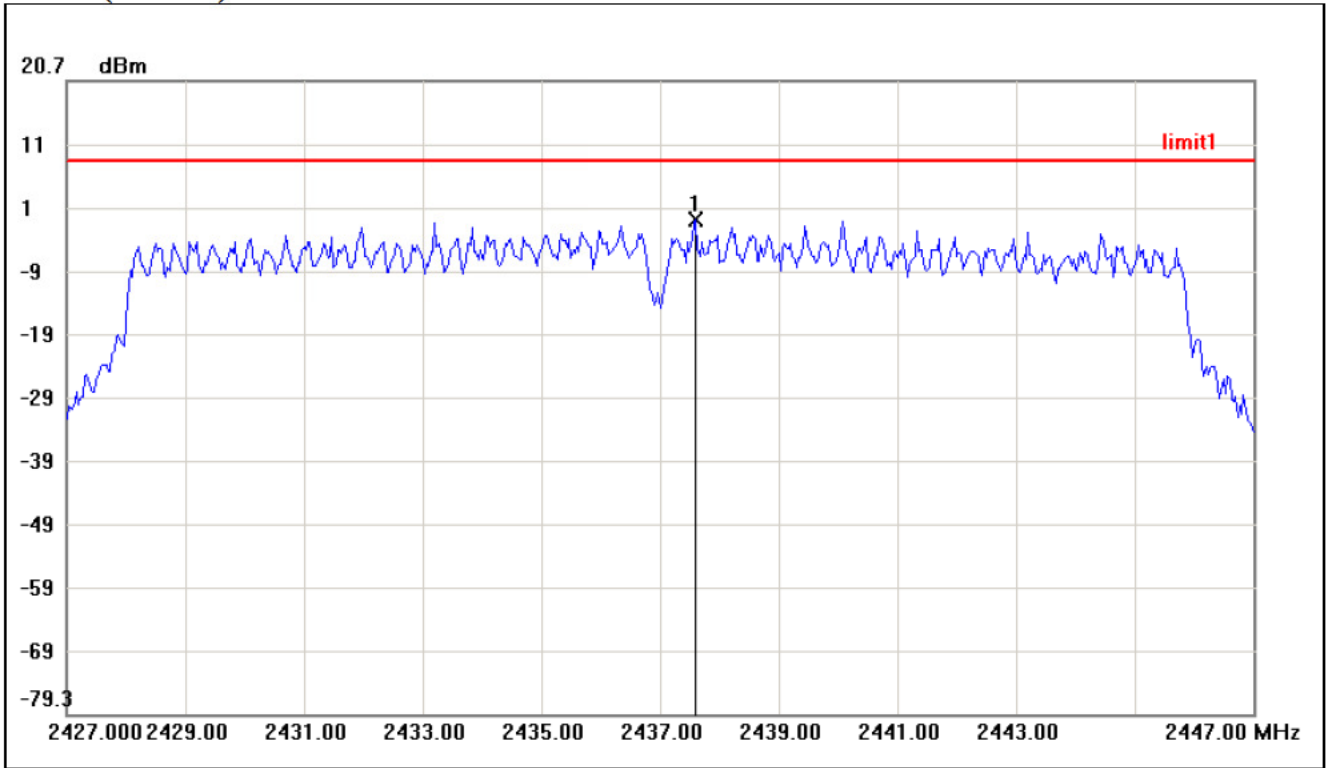
PPSD (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2411.3333	-1.33	6.00	-7.33



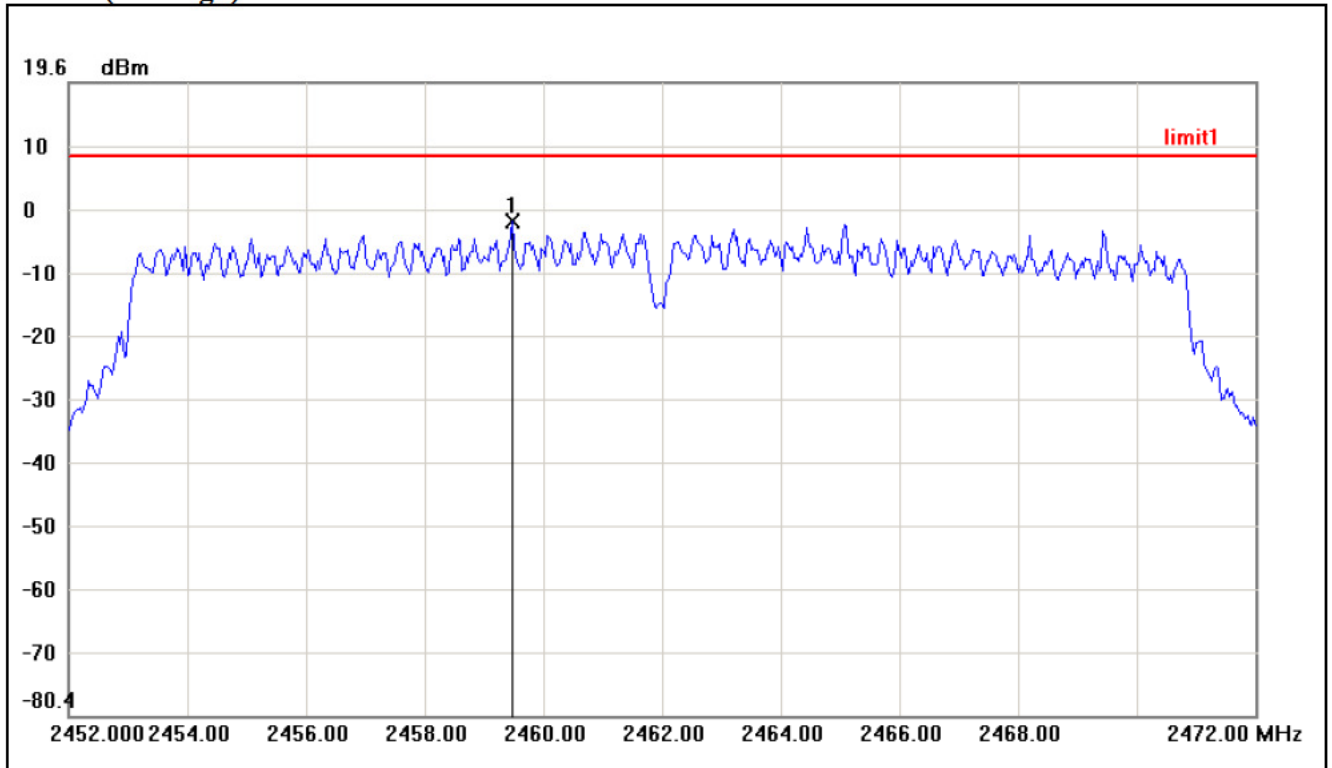
PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2437.6000	-1.30	6.00	-7.30



PPSD (CH High)

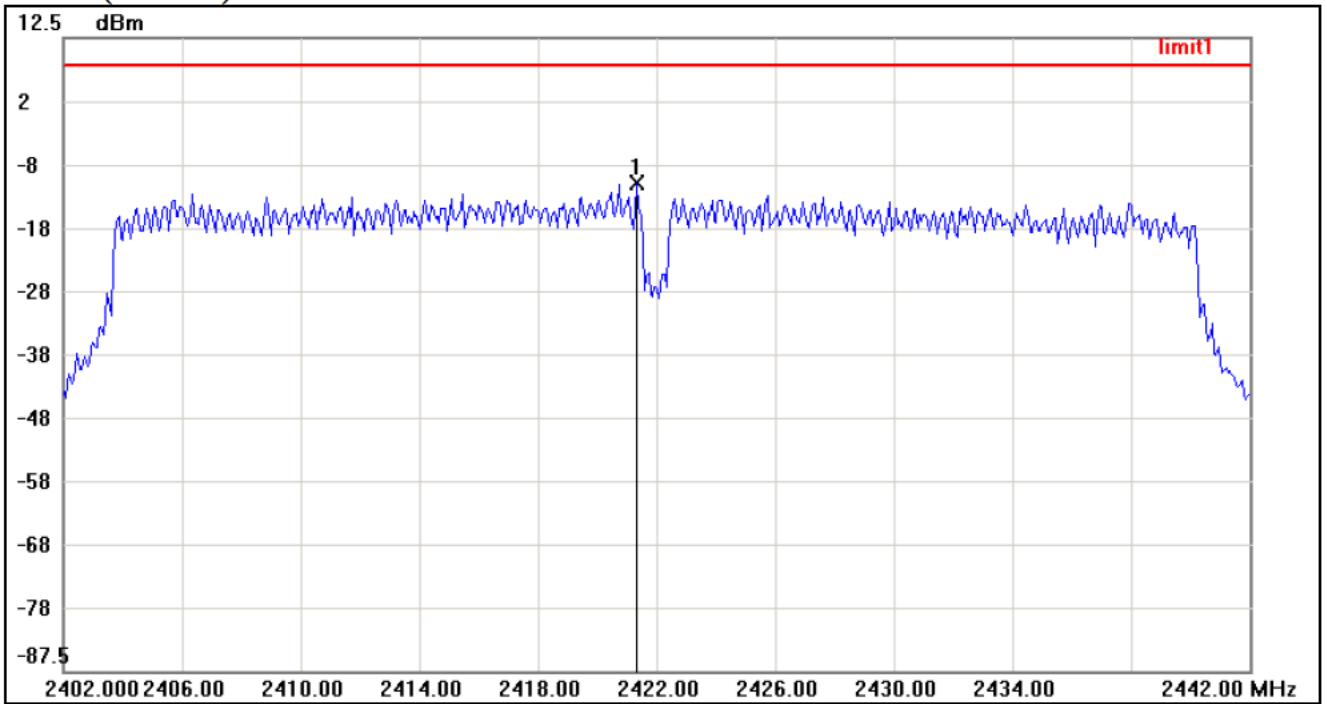


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2459.4667	-2.31	6.00	-8.31



IEEE 802.11n HT 40 MHz mode / Chain 0

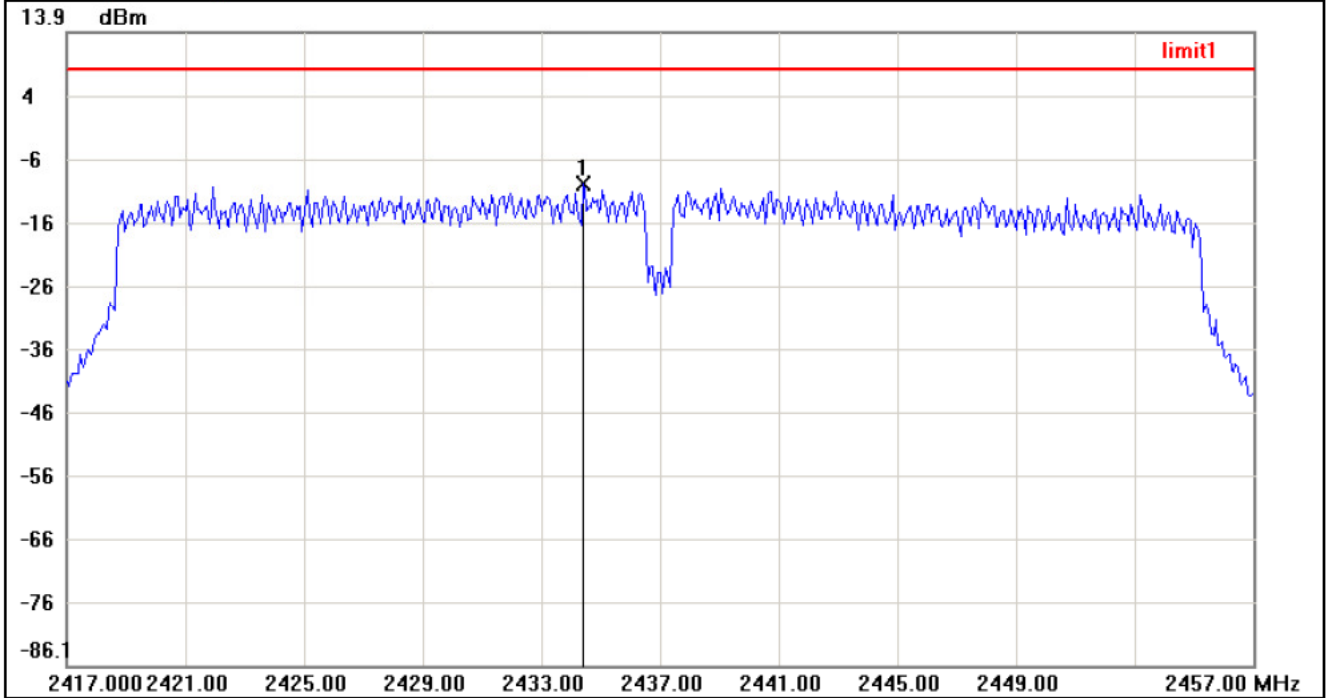
PPSD (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2421.3333	-10.34	6.00	-16.34



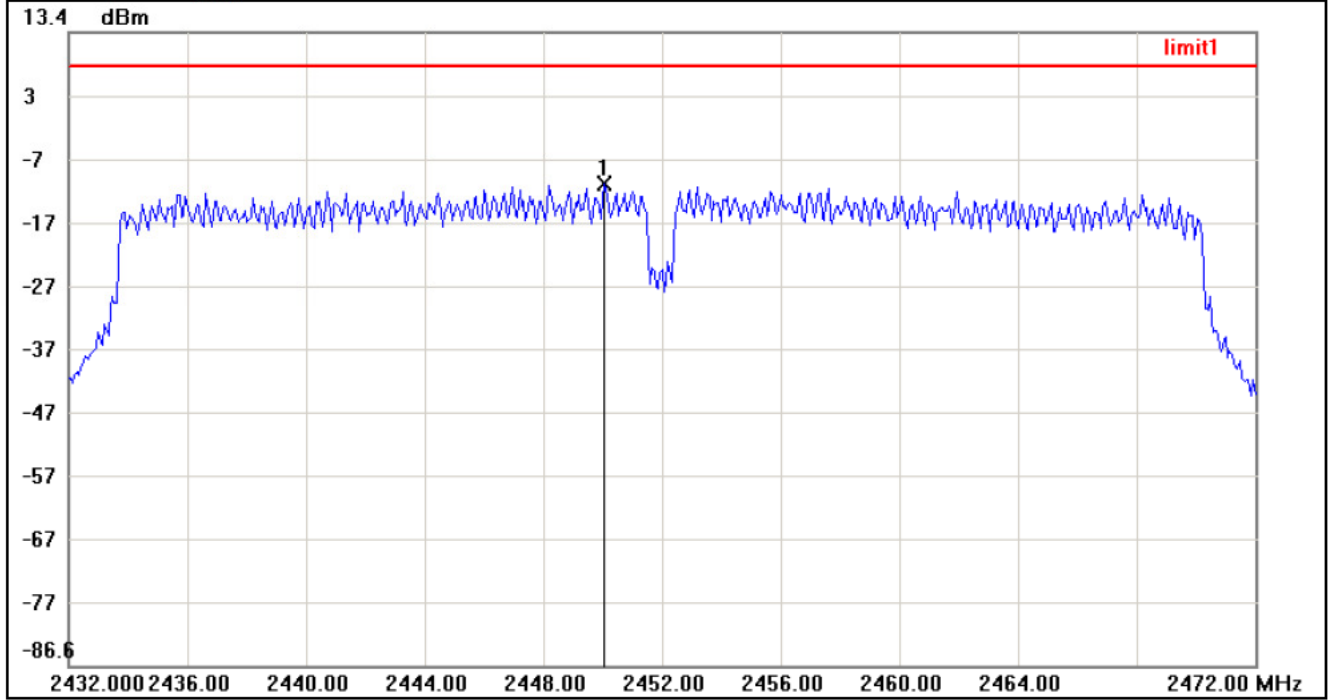
PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2434.4000	-9.96	6.00	-15.96



PPSD (CH High)

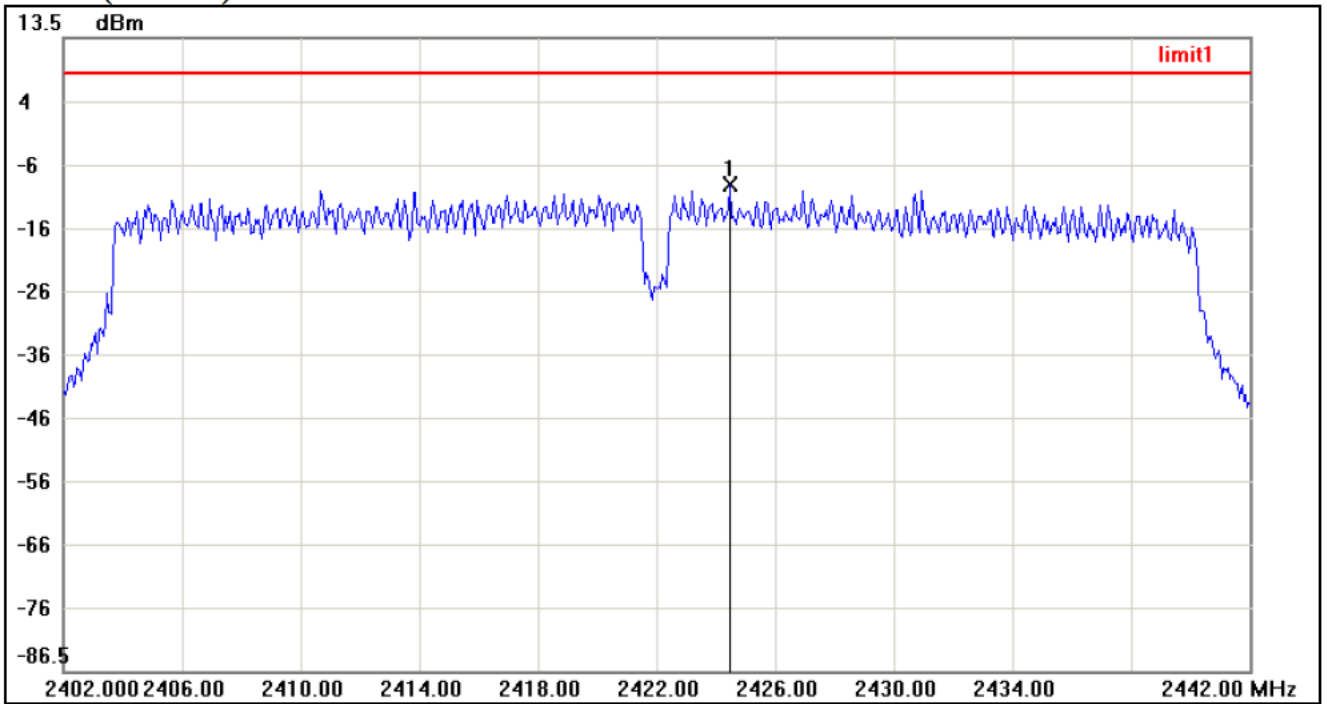


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2450.0667	-10.36	6.00	-16.36



IEEE 802.11n HT 40 MHz mode / Chain 1

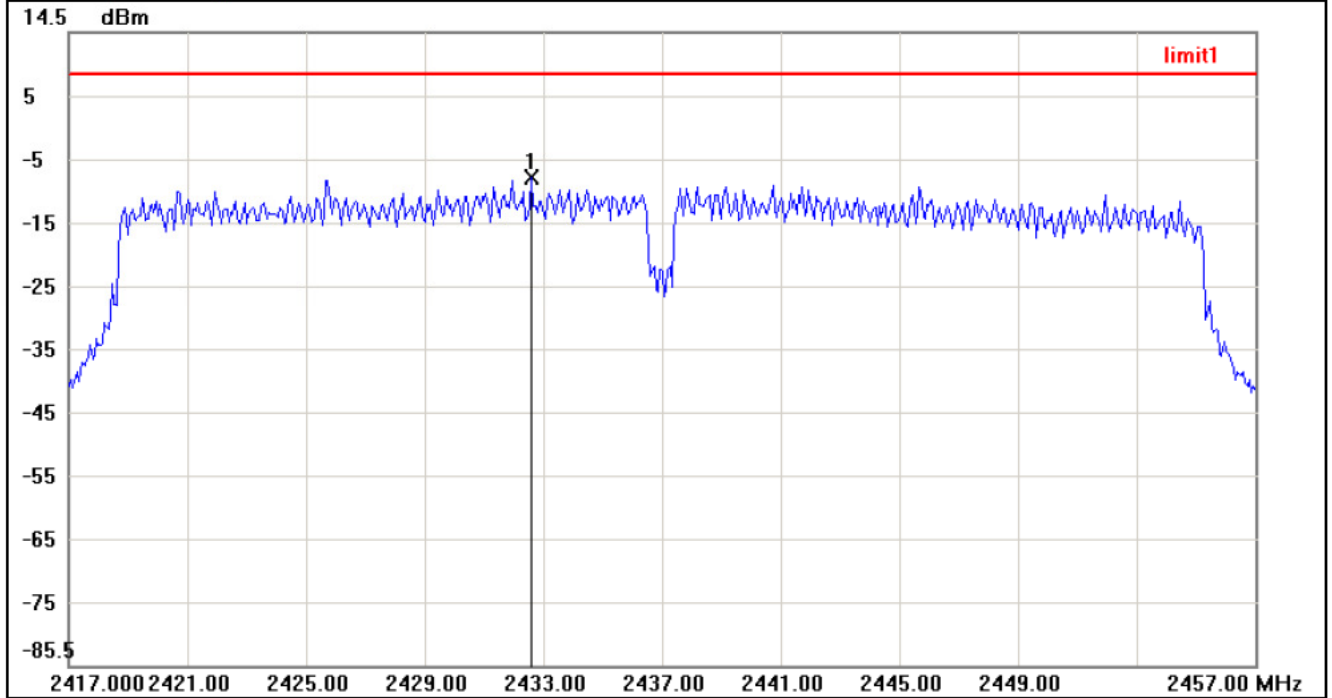
PPSD (CH Low)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2424.4667	-9.52	6.00	-15.52



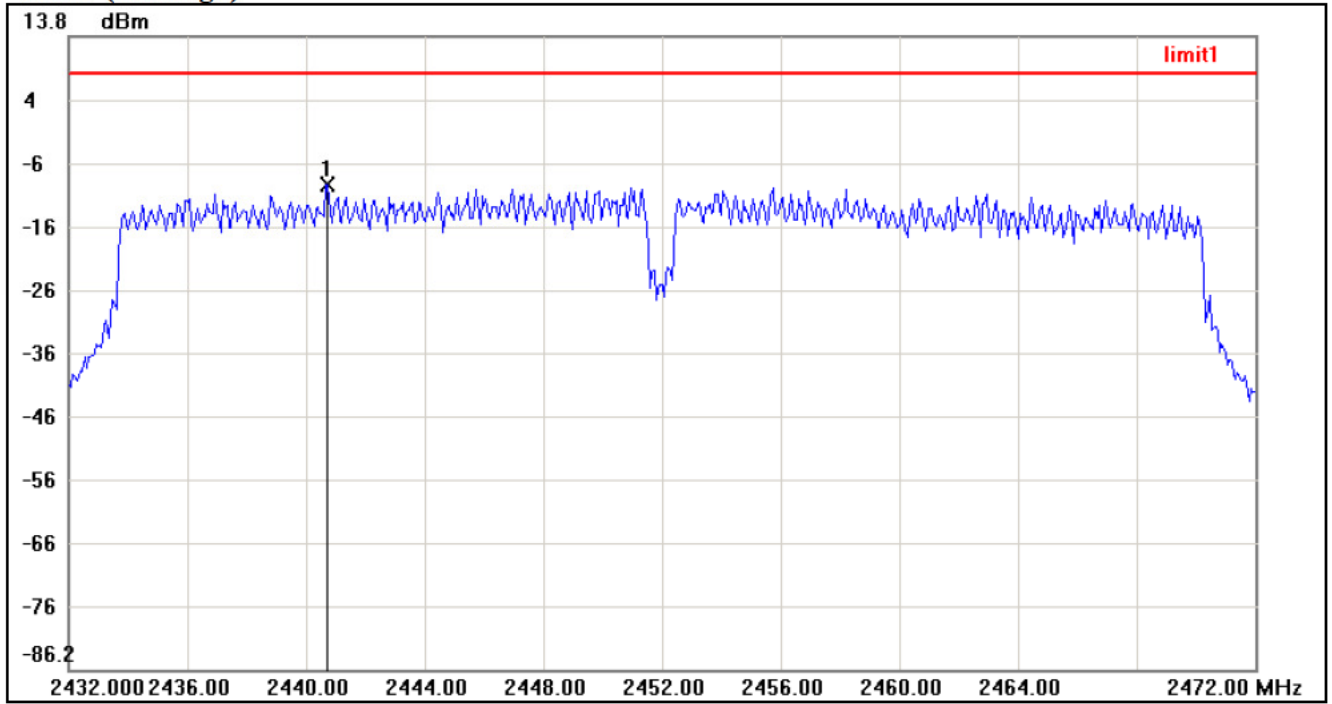
PPSD (CH Mid)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2432.6000	-8.46	6.00	-14.46



PPSD (CH High)



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2440.7333	-9.50	6.00	-15.50



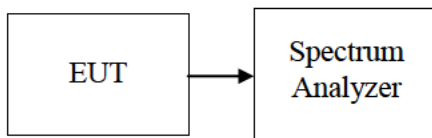
7.6 SPURIOUS EMISSIONS

7.6.1 Conducted Measurement

LIMIT

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)).

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 100 kHz.

Measurements are made over the 30MHz to 25GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

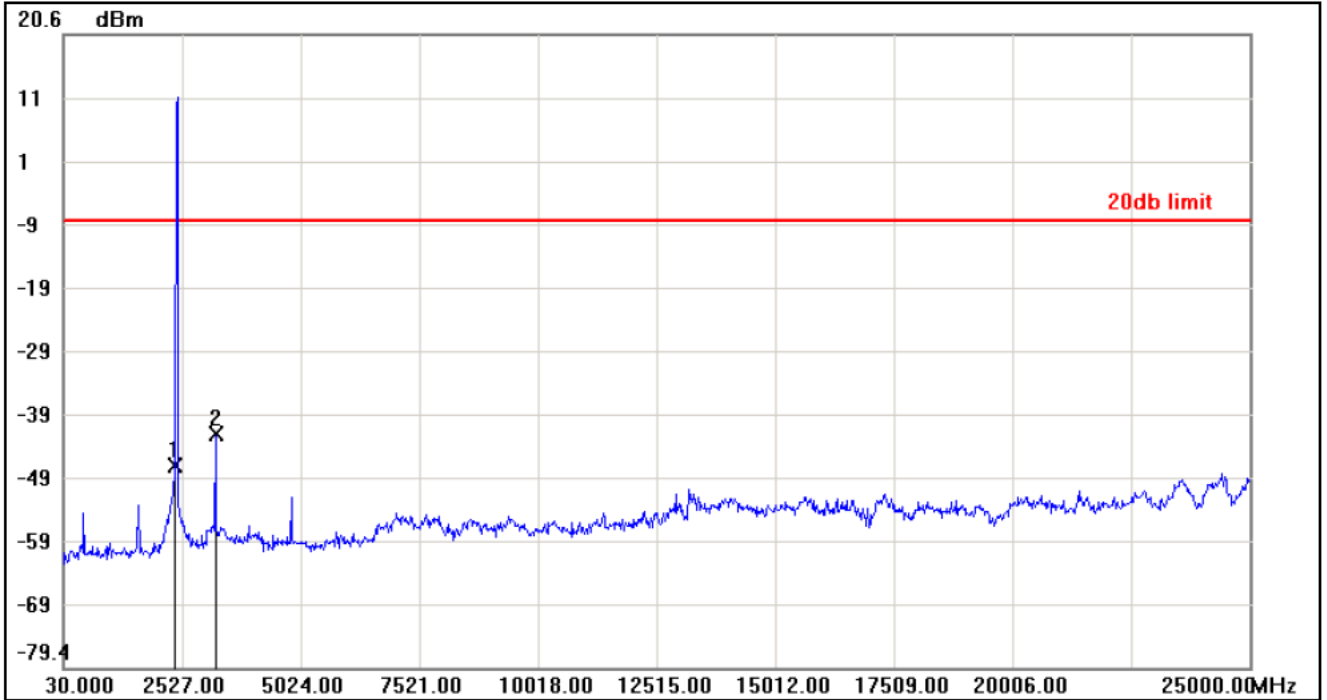
No non-compliance noted.



Test Plot

IEEE 802.11b mode

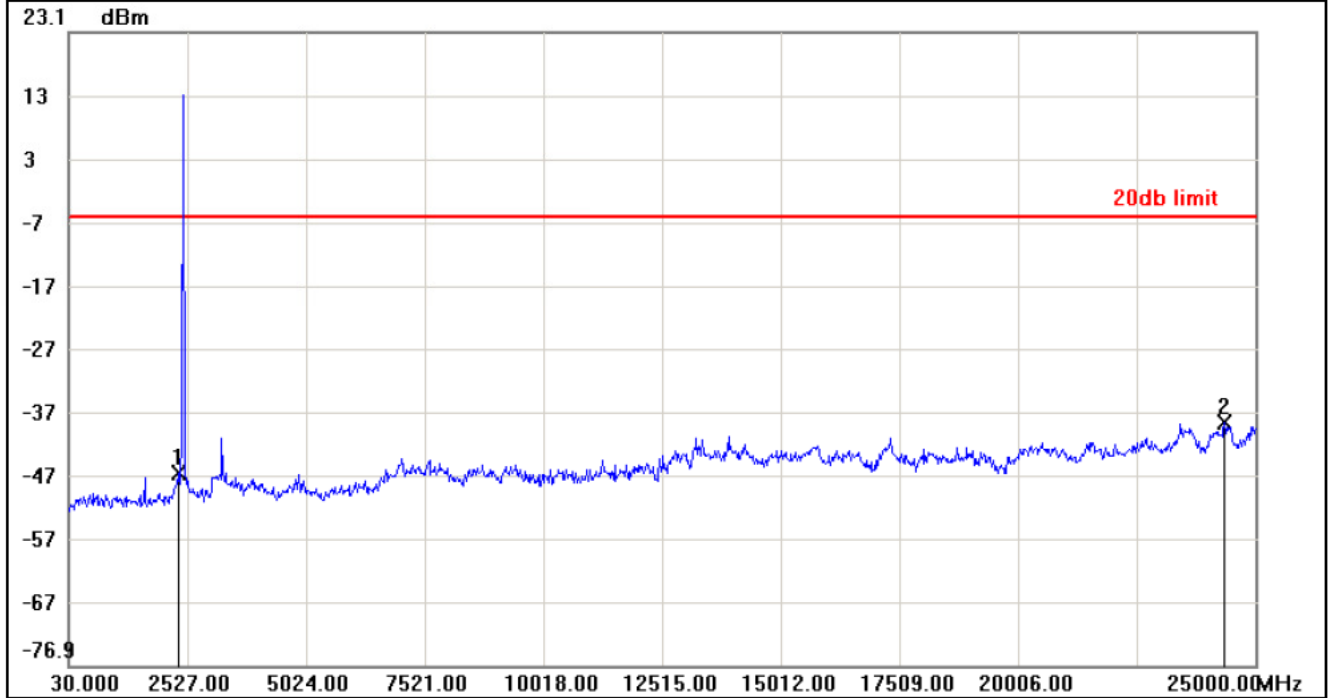
CH Low



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-47.53	-8.75	-38.78
2	3226.1600	-42.62	-8.75	-33.87



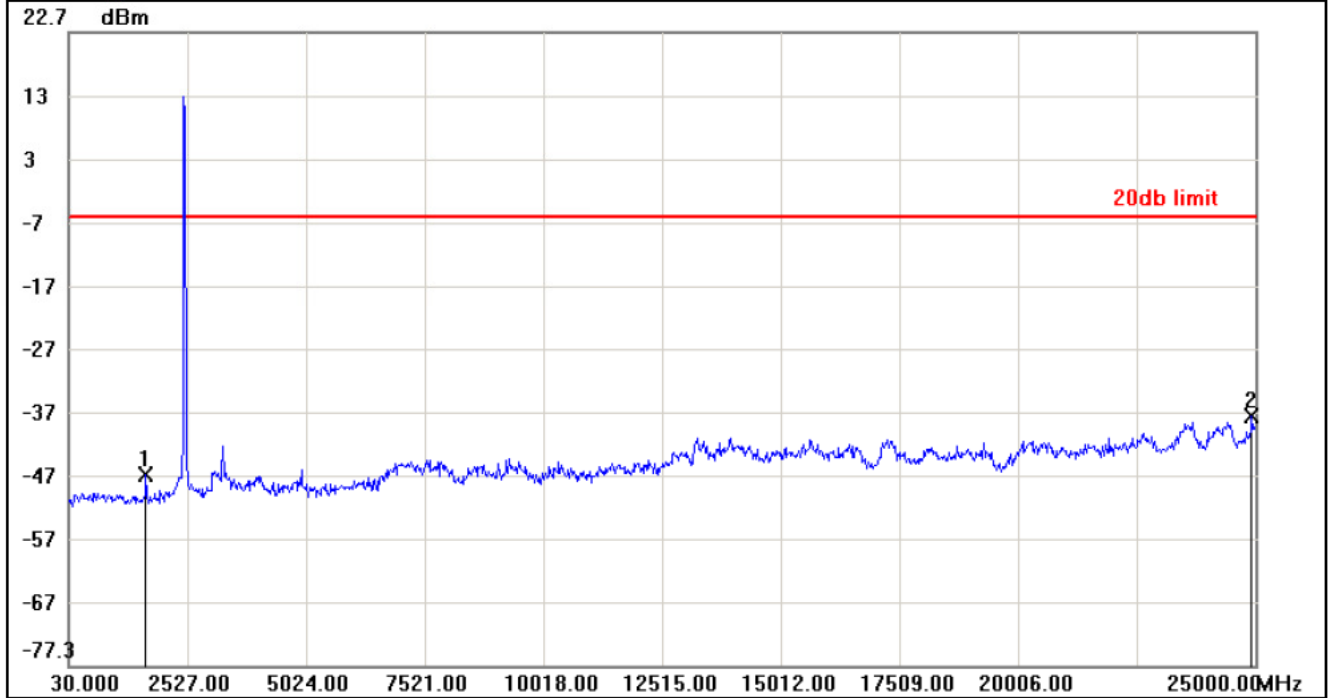
CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2327.2400	-46.60	-6.13	-40.47
2	24350.7800	-38.51	-6.13	-32.38



CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	1653.0500	-47.30	-6.50	-40.80
2	24925.0900	-38.05	-6.50	-31.55



IEEE 802.11g mode

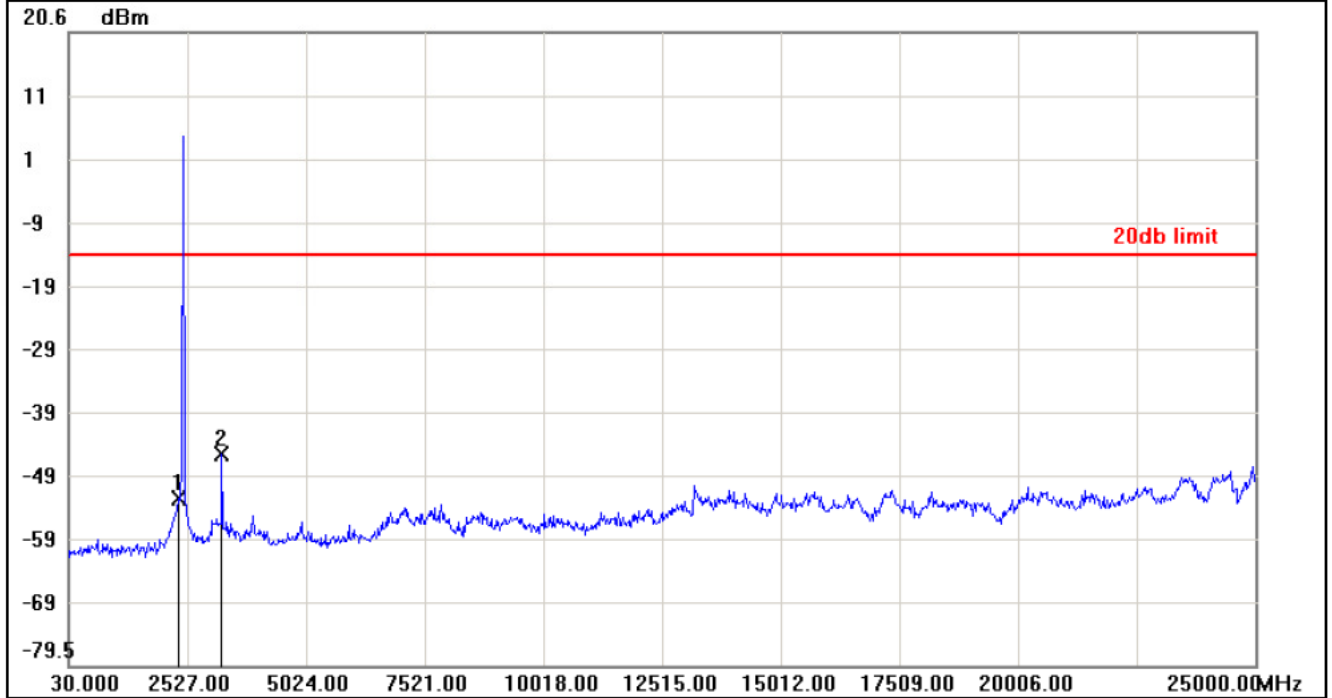
CH Low



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-48.85	-15.10	-33.75
2	3226.1600	-47.42	-15.10	-32.32



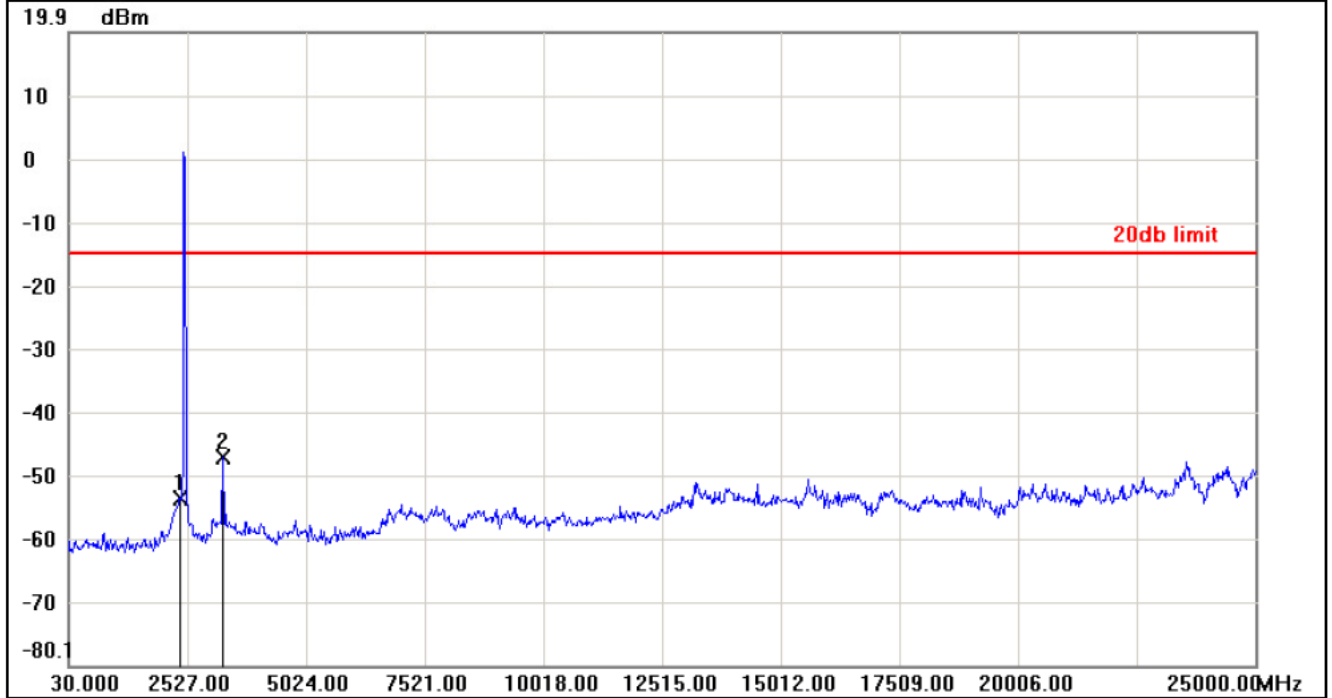
CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2352.2100	-53.17	-14.49	-38.68
2	3251.1300	-46.11	-14.49	-31.62



CH High



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-53.63	-14.92	-38.71
2	3276.1000	-47.16	-14.92	-32.24



IEEE 802.11n HT 20 MHz mode / Chain 0

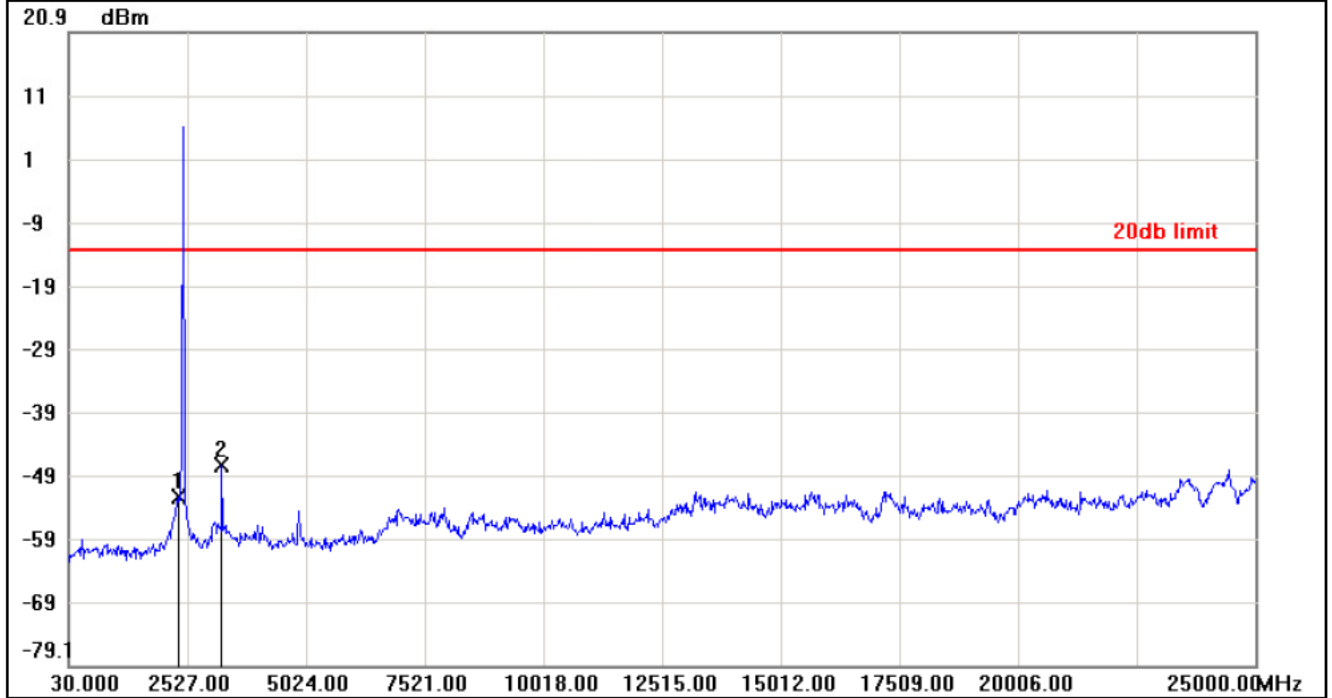
CH Low



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-43.06	-12.86	-30.20
2	3226.1600	-45.25	-12.86	-32.39



CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2327.2400	-52.53	-13.36	-39.17
2	3251.1300	-47.42	-13.36	-34.06



CH High

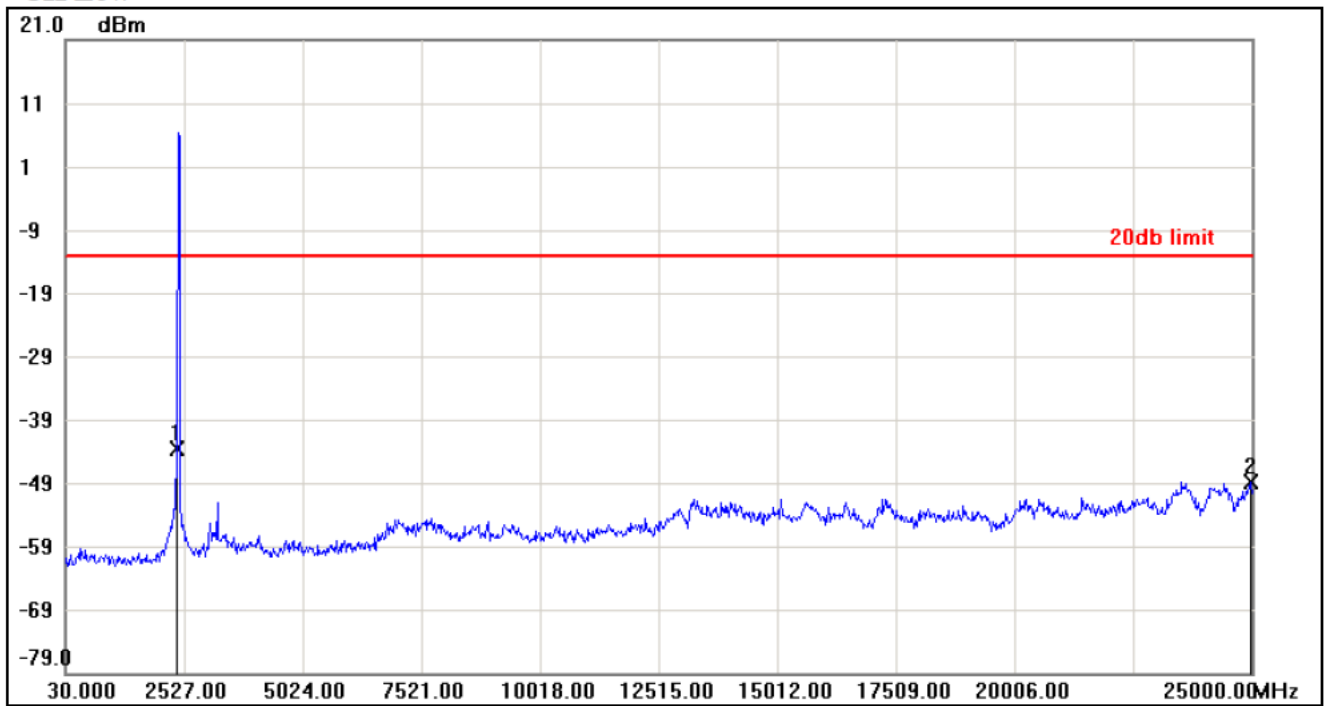


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-53.06	-14.42	-38.64
2	3276.1000	-48.37	-14.42	-33.95



IEEE 802.11n HT 20 MHz mode / Chain 1

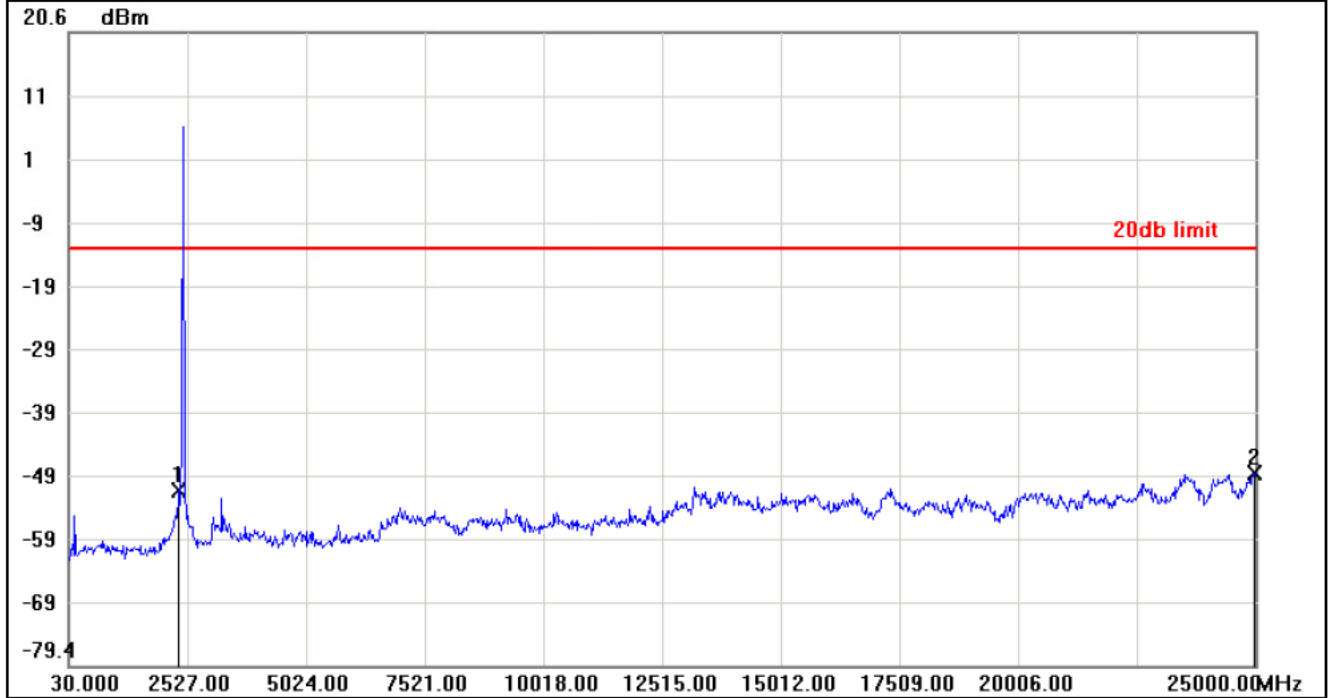
CH Low



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-43.68	-13.12	-30.56
2	24975.0300	-48.86	-13.12	-35.74



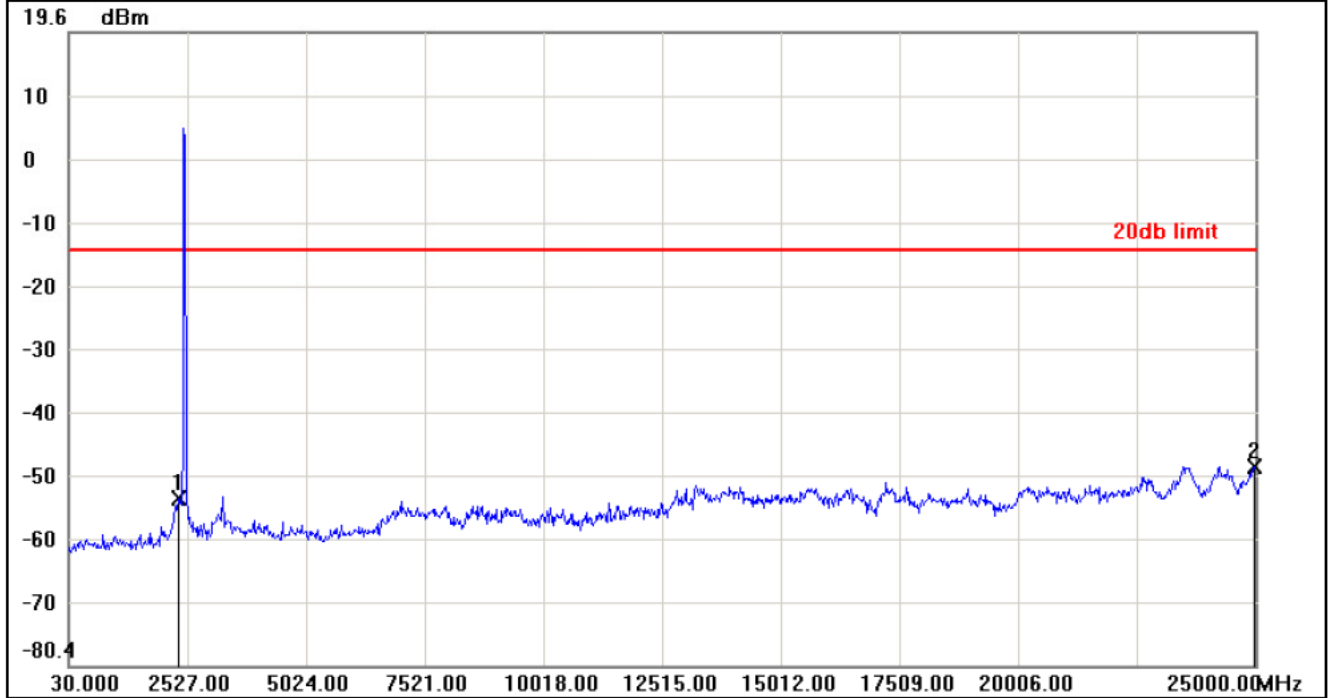
CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2352.2100	-51.86	-13.46	-38.40
2	24975.0300	-49.00	-13.46	-35.54



CH High

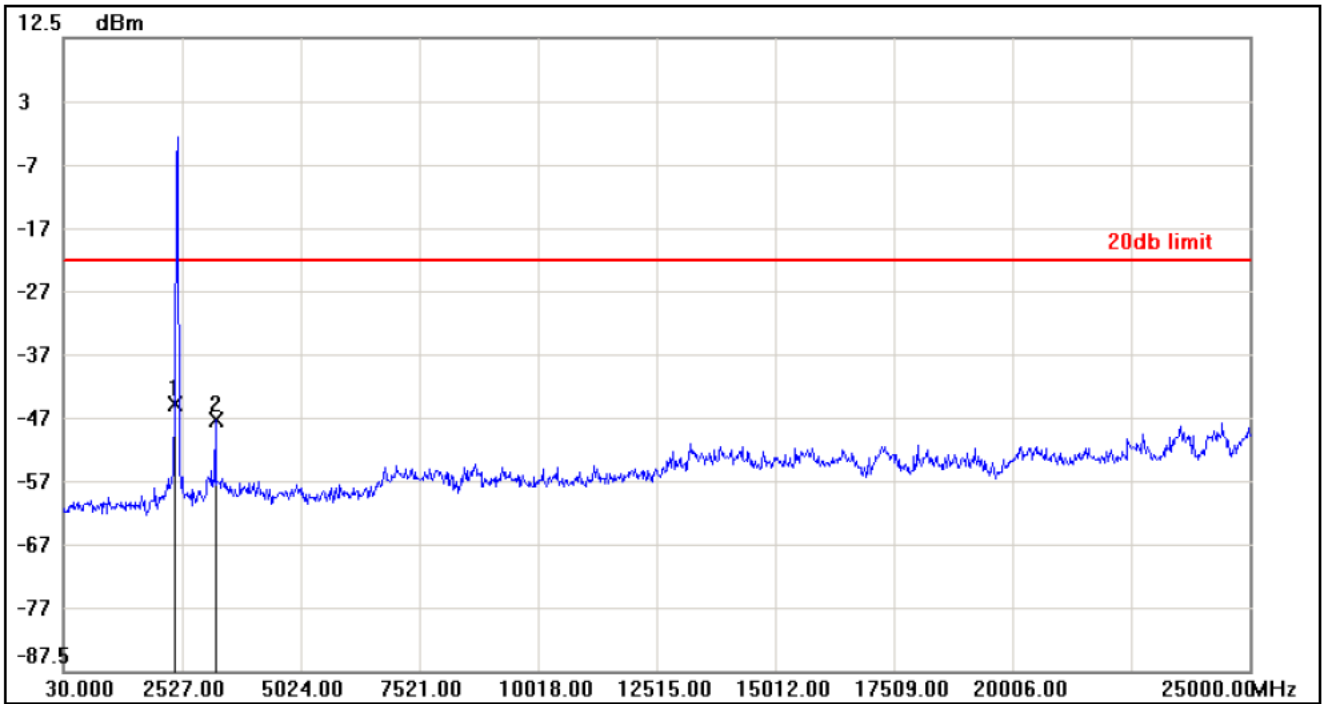


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2352.2100	-53.98	-14.65	-39.33
2	24975.0300	-48.97	-14.65	-34.32



IEEE 802.11n HT 40 MHz mode / Chain 0

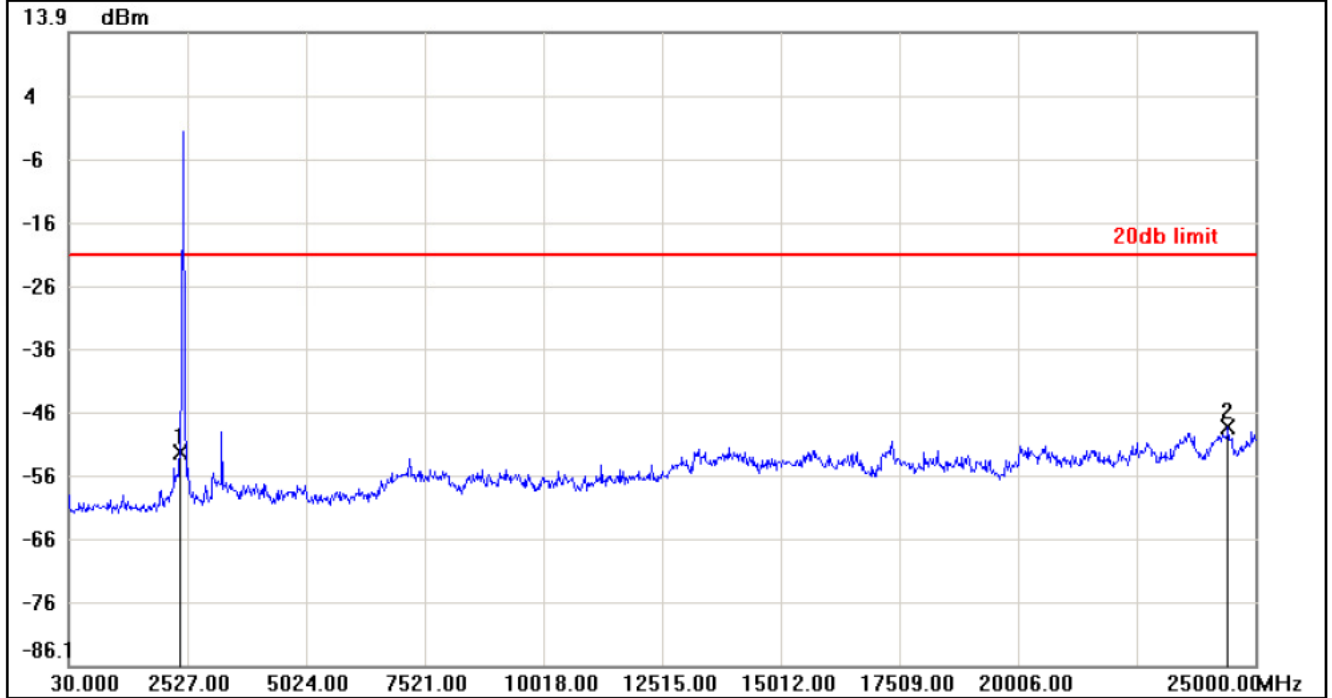
CH Low



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-45.47	-22.62	-22.85
2	3226.1600	-47.83	-22.62	-25.21



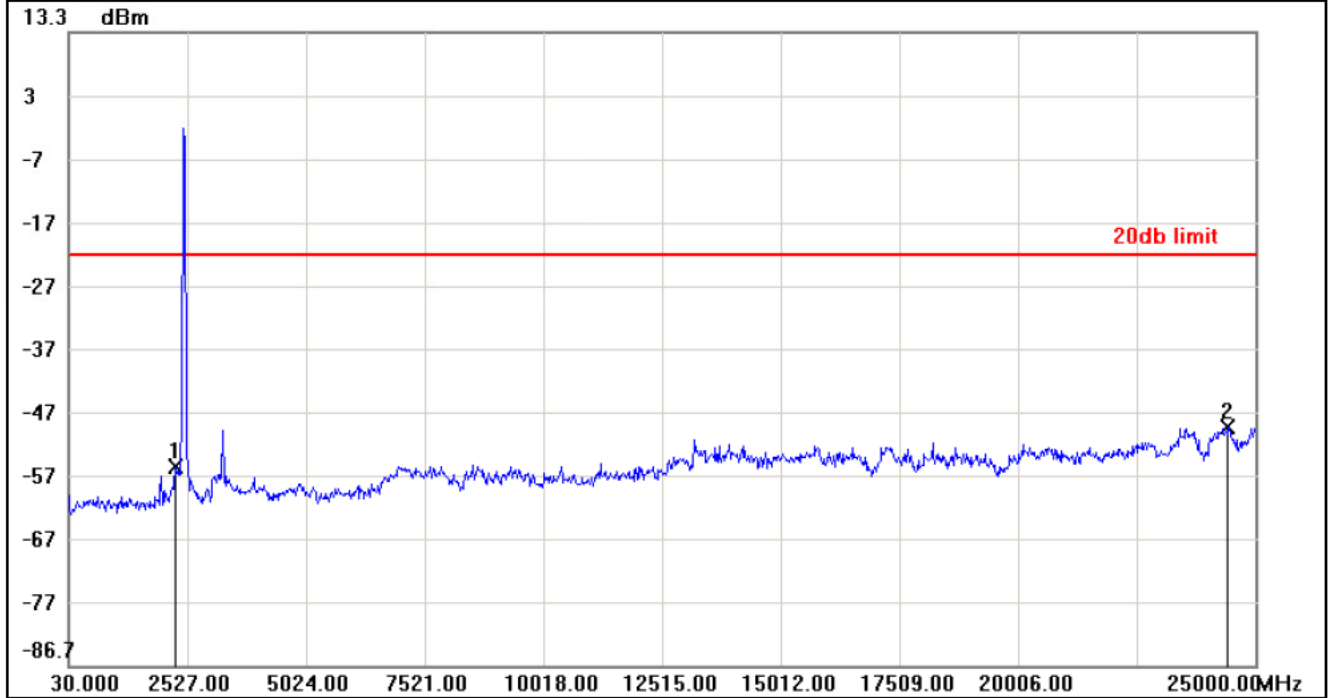
CH Mid



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-52.46	-21.24	-31.22
2	24425.6900	-48.46	-21.24	-27.22



CH High

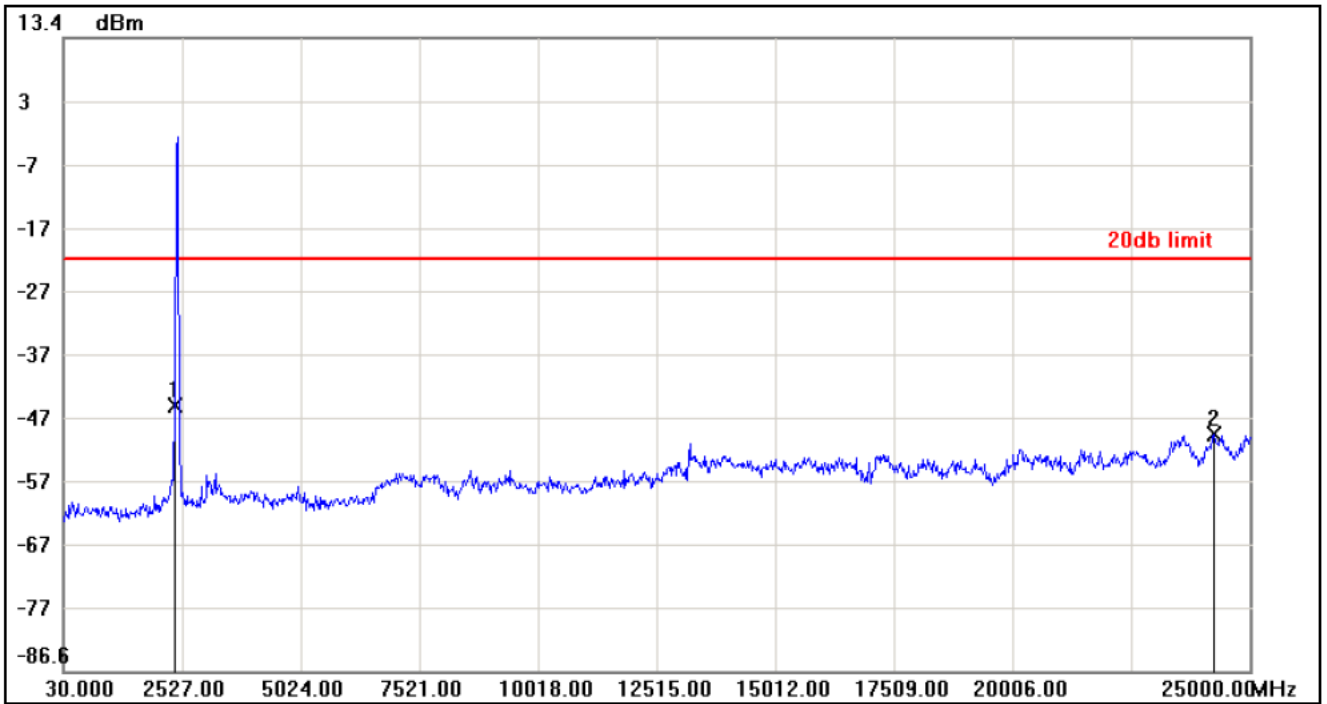


No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2277.3000	-55.36	-21.68	-33.68
2	24425.6900	-48.99	-21.68	-27.31



IEEE 802.11n HT 40 MHz mode / Chain 1

CH Low



No.	Frequency(MHz)	Result(dBm)	Limit(dBm)	Margin(dBm)
1	2377.1800	-44.72	-21.54	-23.18
2	24250.9000	-49.20	-21.54	-27.66