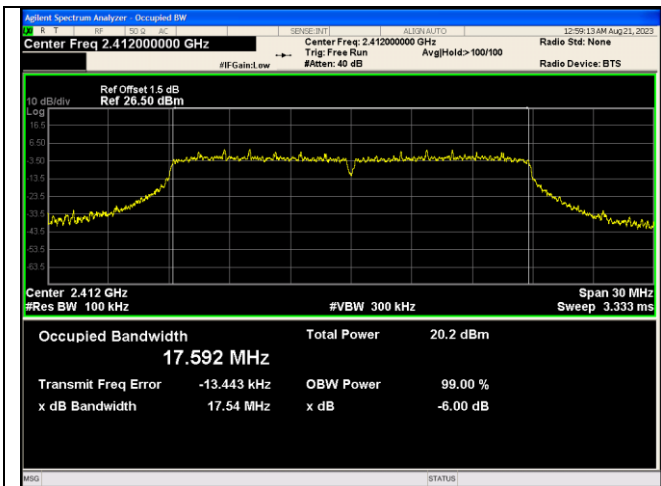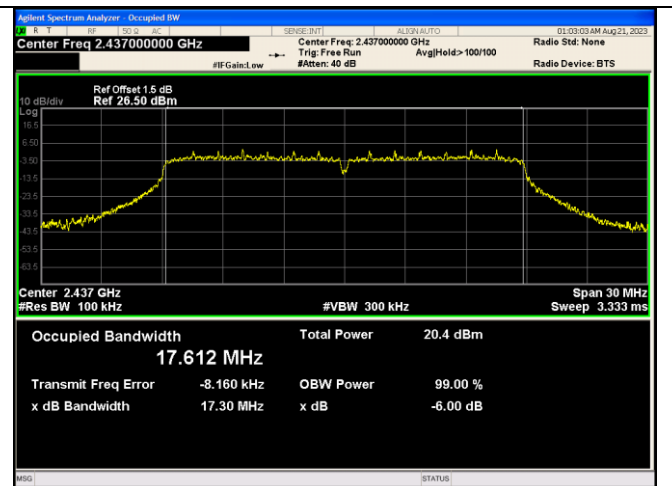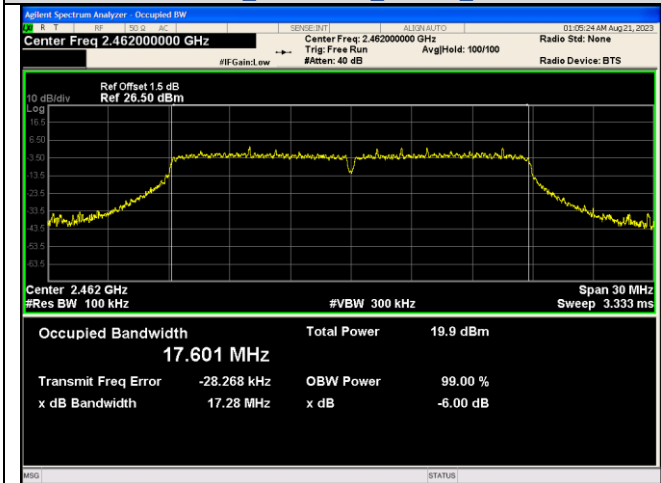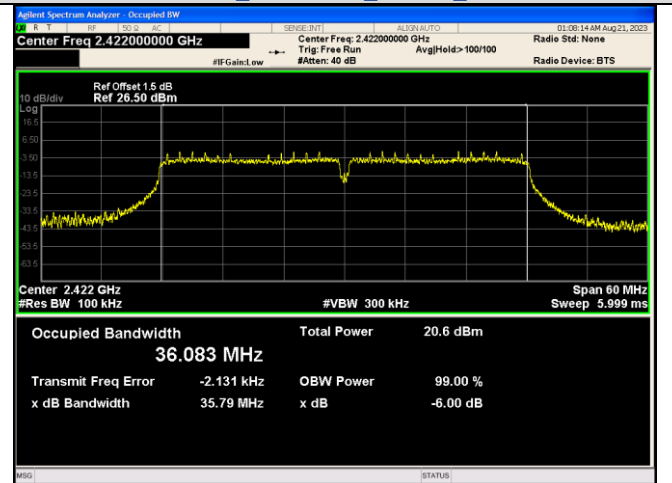DTS Bandwidth:

IEEE 802.11b_Channel 1_20MHz_Antenna 0

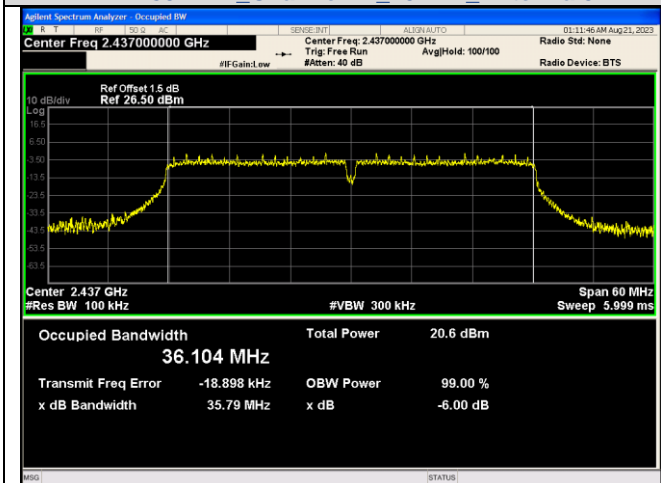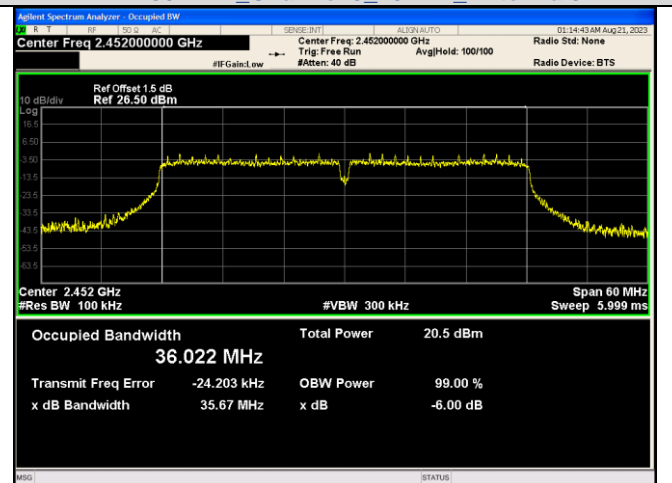IEEE 802.11b_Channel 6_20MHz_Antenna 0

IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0

IEEE 802.11g_Channel 6_20MHz_Antenna 0

IEEE 802.11g_Channel 11_20MHz_Antenna 0

Occupied Bandwidth 17.592 MHz Total Power 20.2 dBm Transmit Freq Error -13.443 kHz / OBW Power 99.00 % x dB Bandwidth 17.54 MHz / x dB -6.00 dB	**Occupied Bandwidth** 17.612 MHz Total Power 20.4 dBm Transmit Freq Error -8.160 kHz / OBW Power 99.00 % x dB Bandwidth 17.30 MHz / x dB -6.00 dB
IEEE 802.11n_Channel 1_20MHz_Antenna 0	**IEEE 802.11n_Channel 6_20MHz_Antenna 0**
Occupied Bandwidth 17.601 MHz Total Power 19.9 dBm Transmit Freq Error -28.268 kHz / OBW Power 99.00 % x dB Bandwidth 17.28 MHz / x dB -6.00 dB	**Occupied Bandwidth** 36.083 MHz Total Power 20.6 dBm Transmit Freq Error -2.131 kHz / OBW Power 99.00 % x dB Bandwidth 35.79 MHz / x dB -6.00 dB
IEEE 802.11n_Channel 11_20MHz_Antenna 0	**IEEE 802.11n_Channel 3_40MHz_Antenna 0**
Occupied Bandwidth 36.104 MHz Total Power 20.6 dBm Transmit Freq Error -18.898 kHz / OBW Power 99.00 % x dB Bandwidth 35.79 MHz / x dB -6.00 dB	**Occupied Bandwidth** 36.022 MHz Total Power 20.5 dBm Transmit Freq Error -24.203 kHz / OBW Power 99.00 % x dB Bandwidth 35.67 MHz / x dB -6.00 dB
IEEE 802.11n_Channel 6_40MHz_Antenna 0	**IEEE 802.11n_Channel 9_40MHz_Antenna 0**

CTC Laboratories, Inc.

Room 101 Building B, No. 7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059   Fax: (86)755-27521011   Http://www.sz-ctc.org.cn

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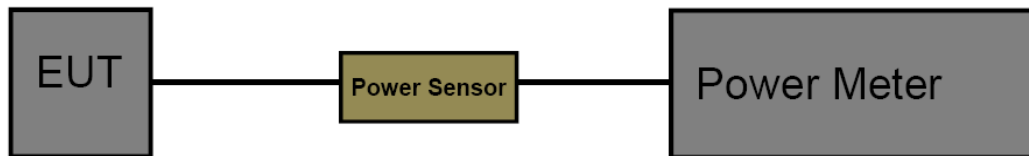
3.6. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5

Test Configuration

Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

Test Result

Mode	Channel	Ant. 0 (dBm)	Limit (dBm)	Result
IEEE 802.11b	1	17.399	30	PASS
	6	17.598	30	PASS
	11	17.490	30	PASS
IEEE 802.11g	1	15.260	30	PASS
	6	15.207	30	PASS
	11	15.139	30	PASS
IEEE 802.11n_20	1	13.943	30	PASS
	6	14.076	30	PASS
	11	13.808	30	PASS
IEEE 802.11n_40	3	13.881	30	PASS
	6	13.511	30	PASS
	9	13.790	30	PASS

3.7. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration
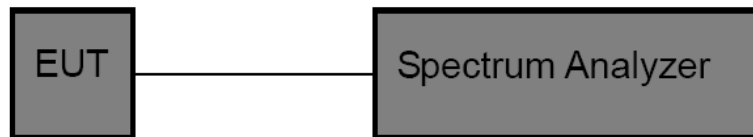
Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to DTS channel center frequency.
Set the span to 1.5 times the DTS bandwidth.
Set the RBW to: 3 kHz.
Set the VBW to: 10 kHz.
Detector: peak.
Sweep time: auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

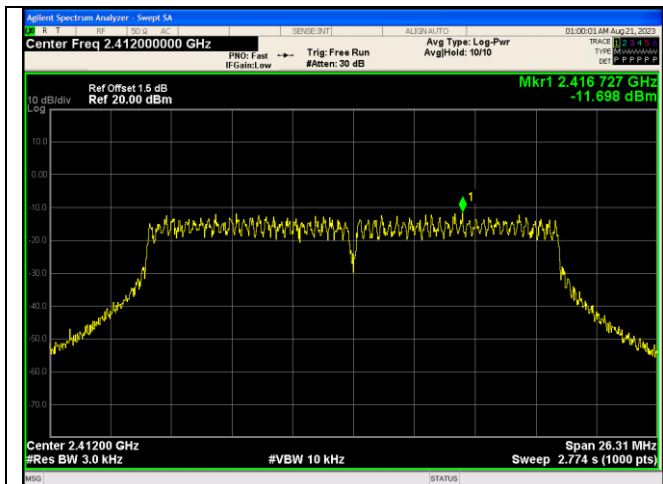**Test Mode**

Please refer to the clause 2.4.

Test Result

Mode	Channel	PSD (dBm/3kHz) Ant. 0	Limit (dBm/3kHz)	Result
IEEE 802.11b	1	-5.785	8	PASS
	6	-4.905		PASS
	11	-5.645		PASS
IEEE 802.11g	1	-9.421		PASS
	6	-9.043		PASS
	11	-9.547		PASS
IEEE 802.11n_20	1	-11.698		PASS
	6	-11.556		PASS
	11	-10.629		PASS
IEEE 802.11n_40	3	-13.971		PASS
	6	-14.326		PASS
	9	-14.372		PASS

Test plot as follows:
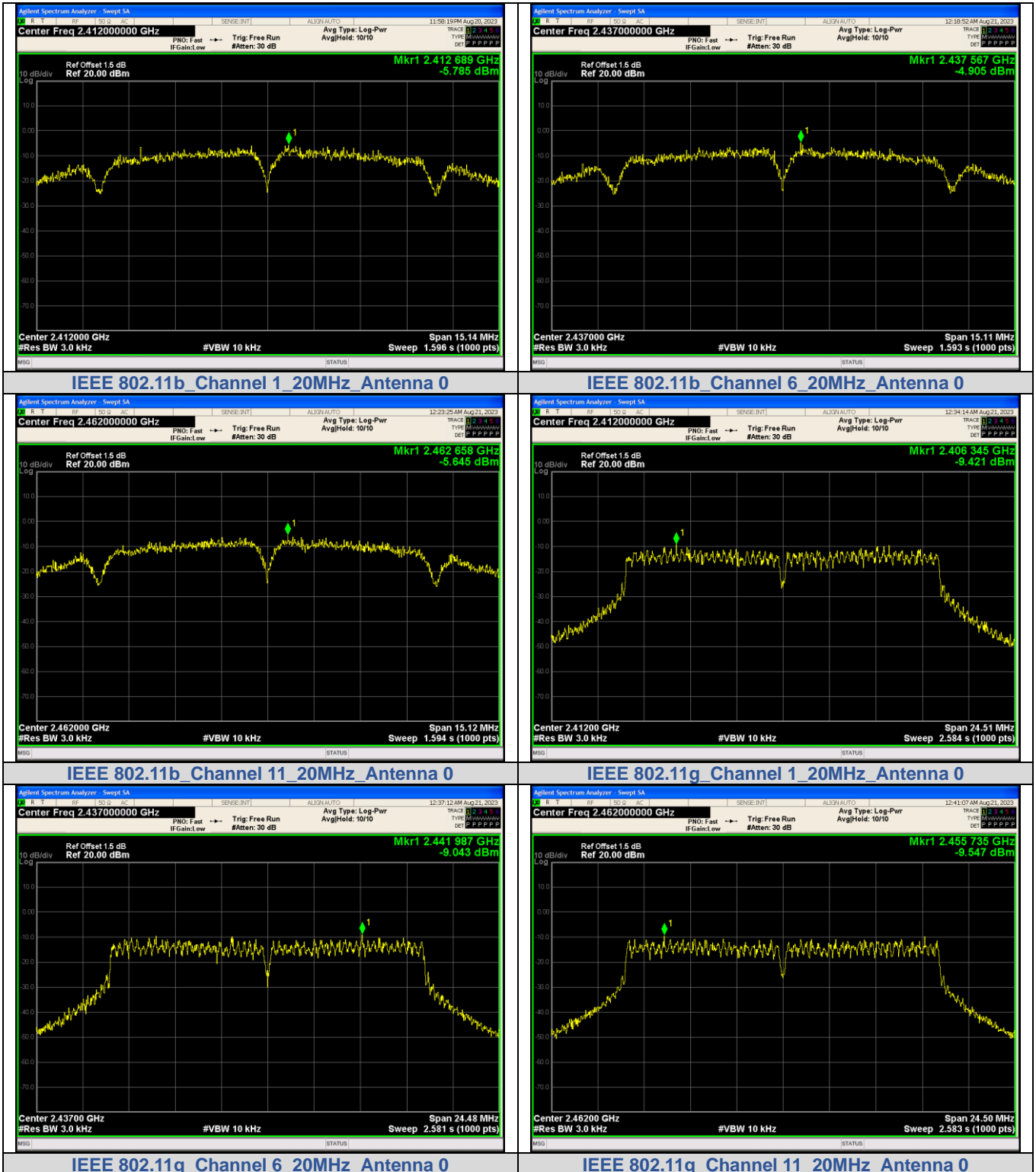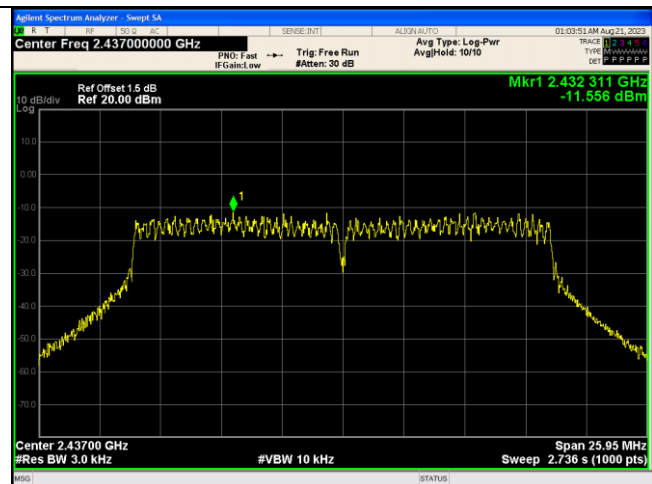
IEEE 802.11b_Channel 1_20MHz_Antenna 0

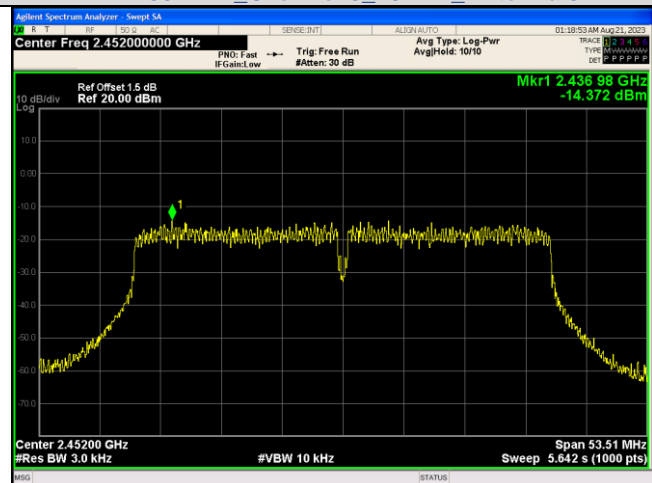IEEE 802.11b_Channel 6_20MHz_Antenna 0

IEEE 802.11b_Channel 11_20MHz_Antenna 0

IEEE 802.11g_Channel 1_20MHz_Antenna 0

IEEE 802.11g_Channel 6_20MHz_Antenna 0
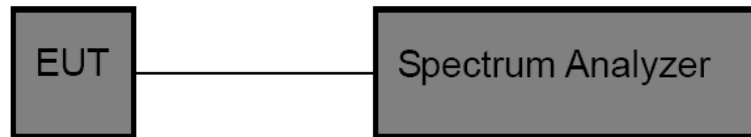

IEEE 802.11g_Channel 11_20MHz_Antenna 0

IEEE 802.11n_Channel 1_20MHz_Antenna 0

IEEE 802.11n_Channel 6_20MHz_Antenna 0
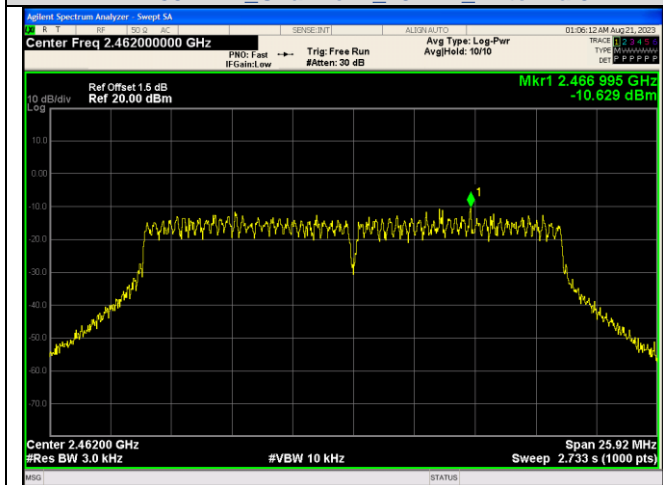
IEEE 802.11n_Channel 11_20MHz_Antenna 0
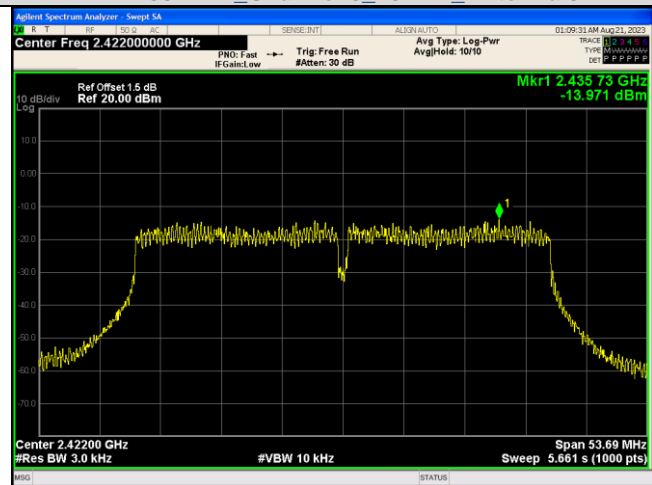
IEEE 802.11n_Channel 3_40MHz_Antenna 0
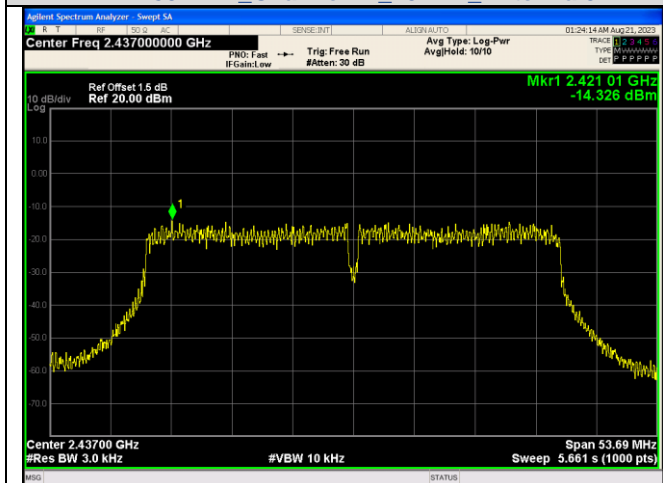
IEEE 802.11n_Channel 6_40MHz_Antenna 0

IEEE 802.11n_Channel 9_40MHz_Antenna 0

3.8. Duty Cycle

Limit

None, for report purposes only.

Test Configuration

Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

Test Result

Mode	Channel	On Time (ms)	Period (ms)	Duty Cycle (%)	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
IEEE 802.11b	1	12.420	12.536	99.08	0.08	1
	6	12.420	12.554	98.93	0.08	1
	11	12.420	12.572	98.79	0.08	1
IEEE 802.11g	1	2.068	2.174	95.09	0.48	1
	6	2.068	2.102	98.35	0.48	1
	11	2.068	2.120	97.51	0.48	1
IEEE 802.11n_20	1	1.924	2.093	91.89	0.52	1
	6	1.924	2.057	93.50	0.52	1
	11	1.923	2.030	94.73	0.52	1
IEEE 802.11n_40	3	0.947	1.009	93.86	1.06	2
	6	0.947	1.000	94.69	1.06	2
	9	0.947	1.009	93.86	1.06	2

Test plot as follows:
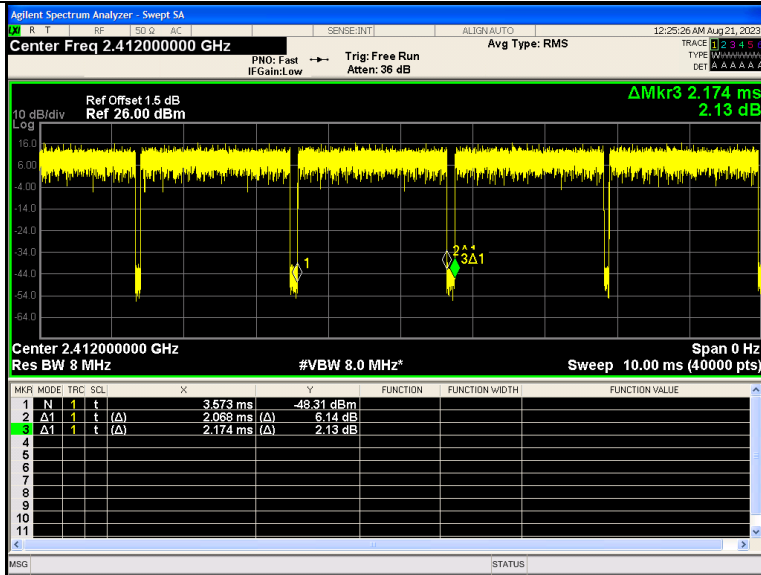

IEEE 802.11b_20MHz_Channel 1
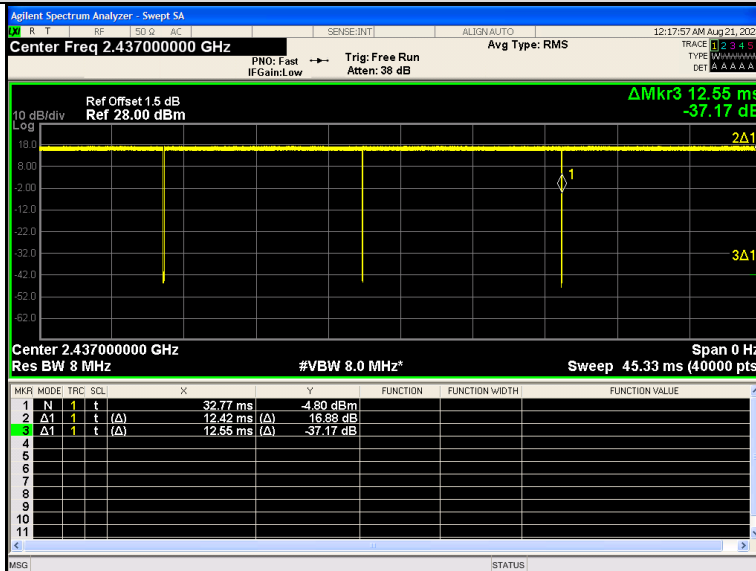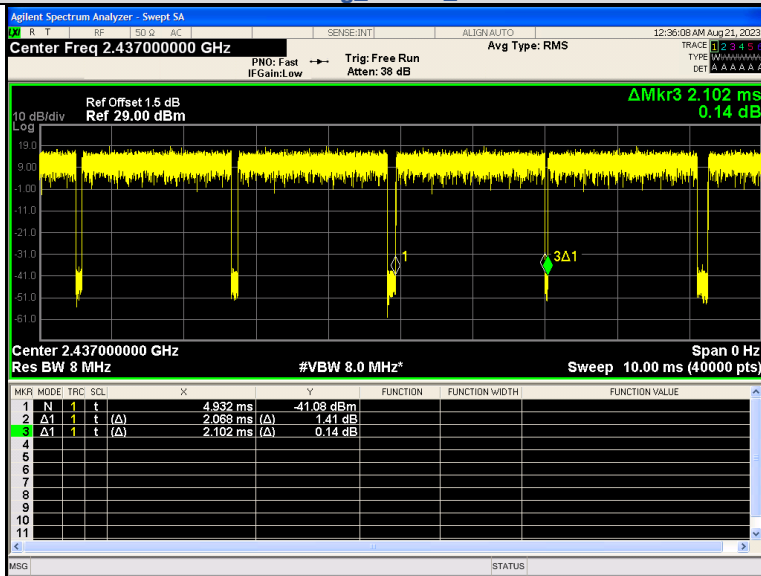

IEEE 802.11b_20MHz_Channel 6
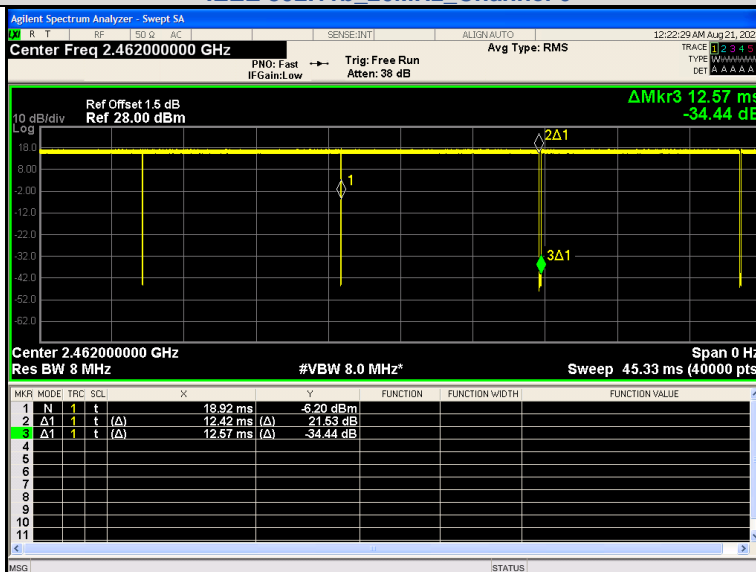
IEEE 802.11b_20MHz_Channel 11

IEEE 802.11g_20MHz_Channel 1

IEEE 802.11g_20MHz_Channel 6
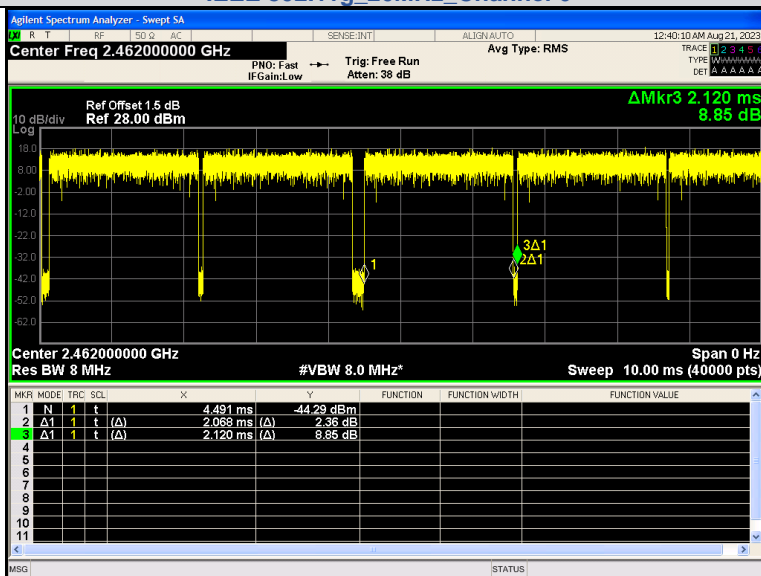
IEEE 802.11g_20MHz_Channel 11
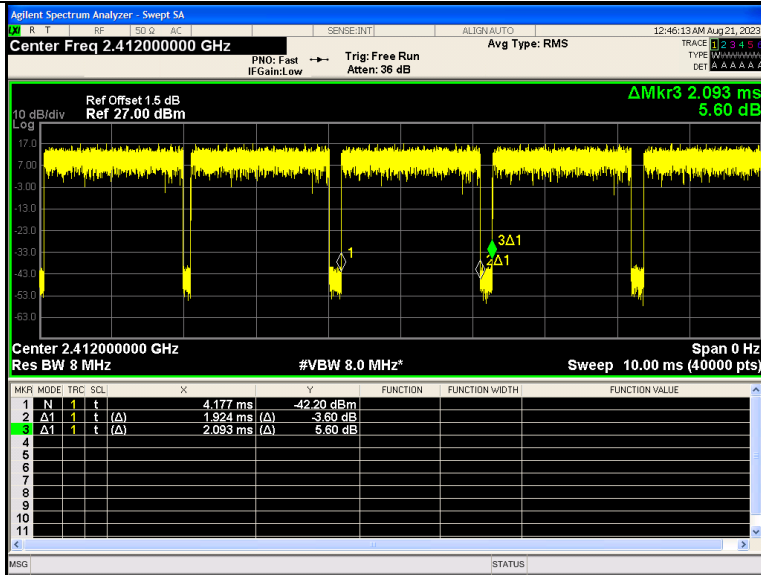
IEEE 802.11n_20MHz_Channel 1
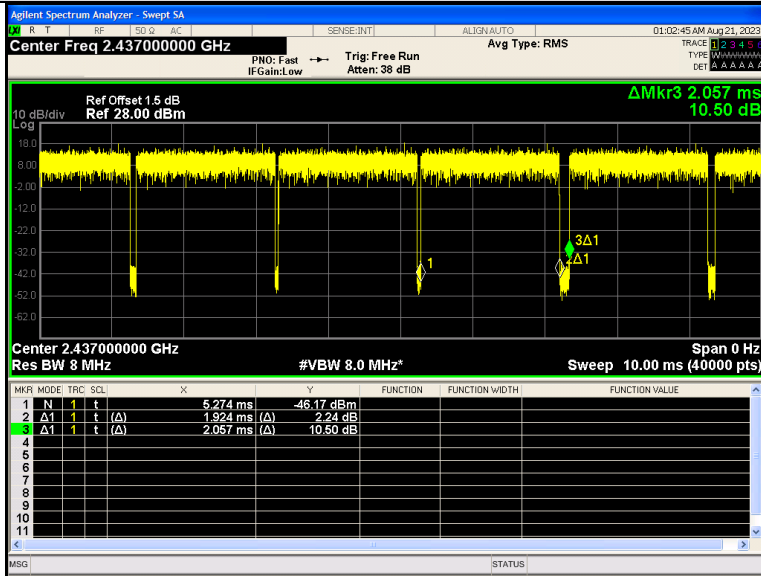
IEEE 802.11n_20MHz_Channel 6
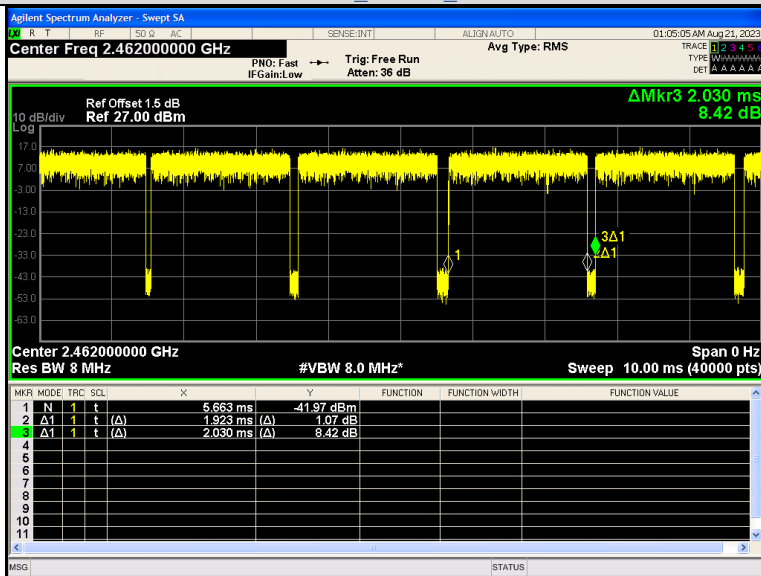
IEEE 802.11n_20MHz_Channel 11
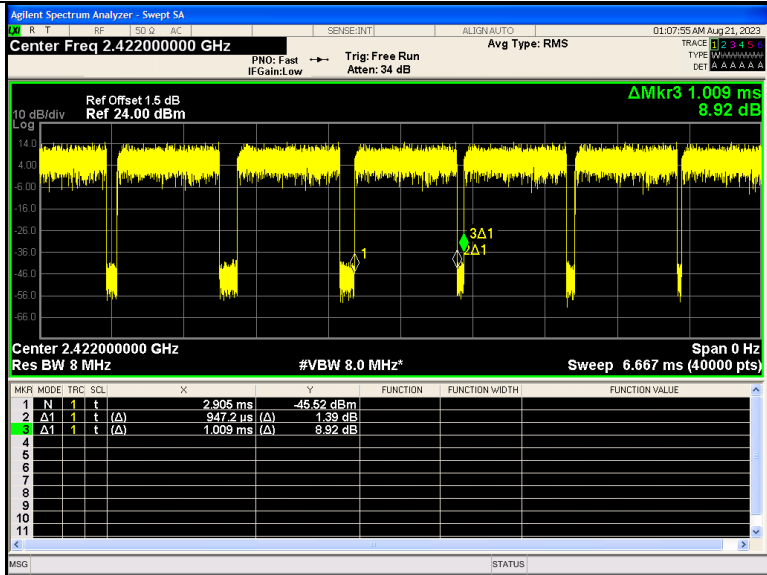
IEEE 802.11n_40MHz_Channel 3
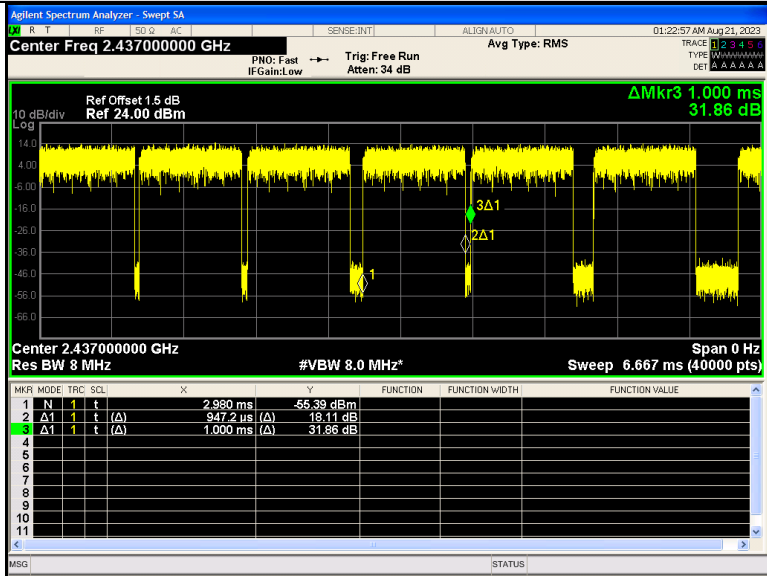
IEEE 802.11n_40MHz_Channel 6
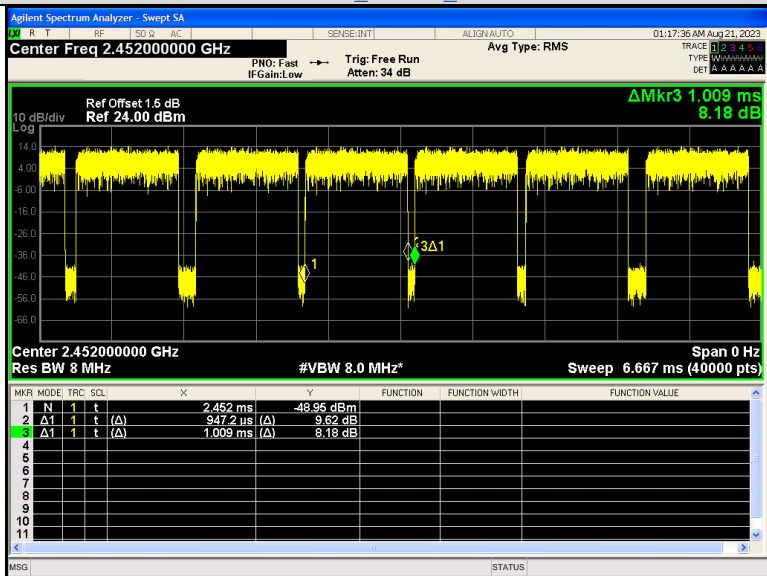
IEEE 802.11n_40MHz_Channel 9

3.9. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)
(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

**********************THE END**********************