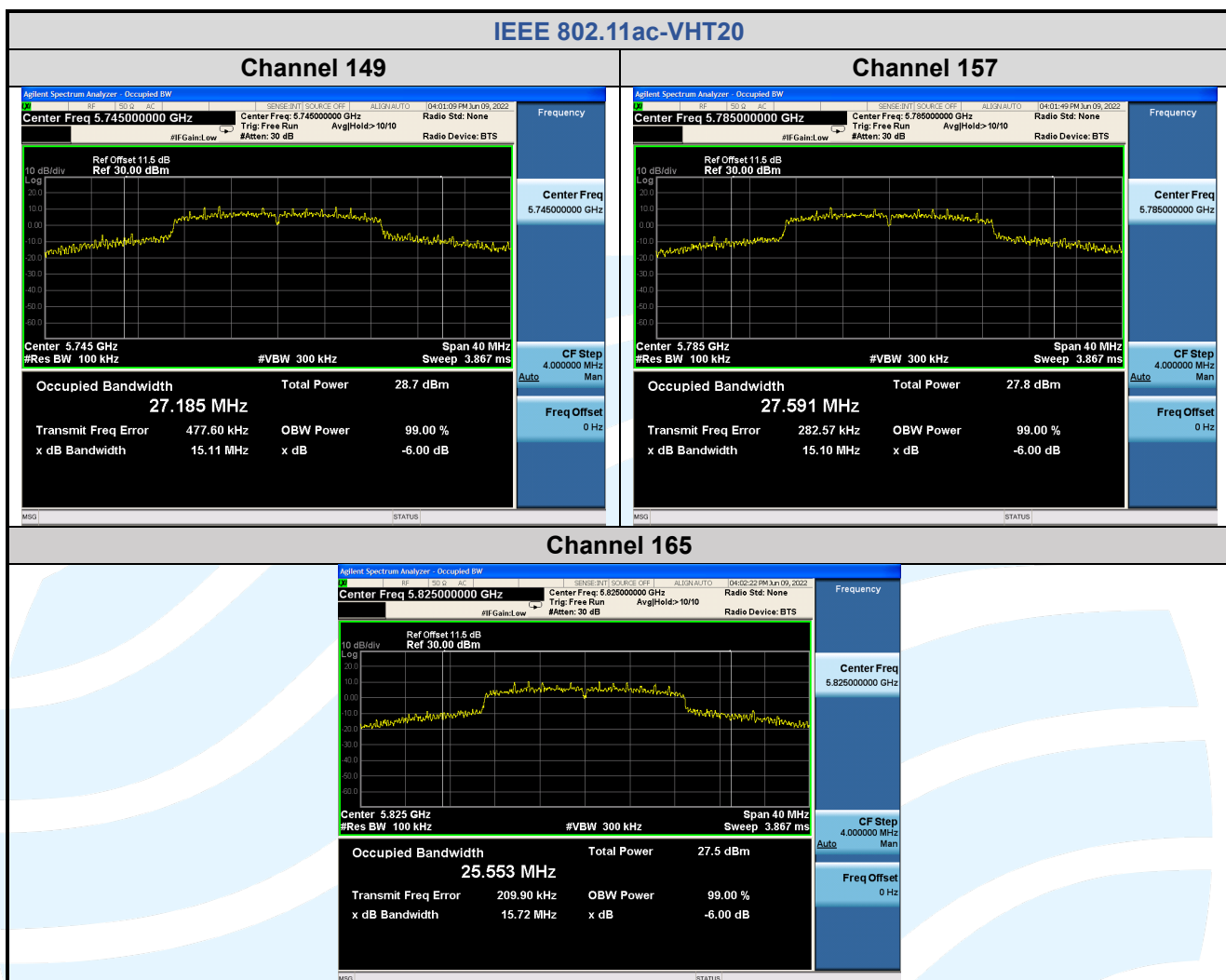
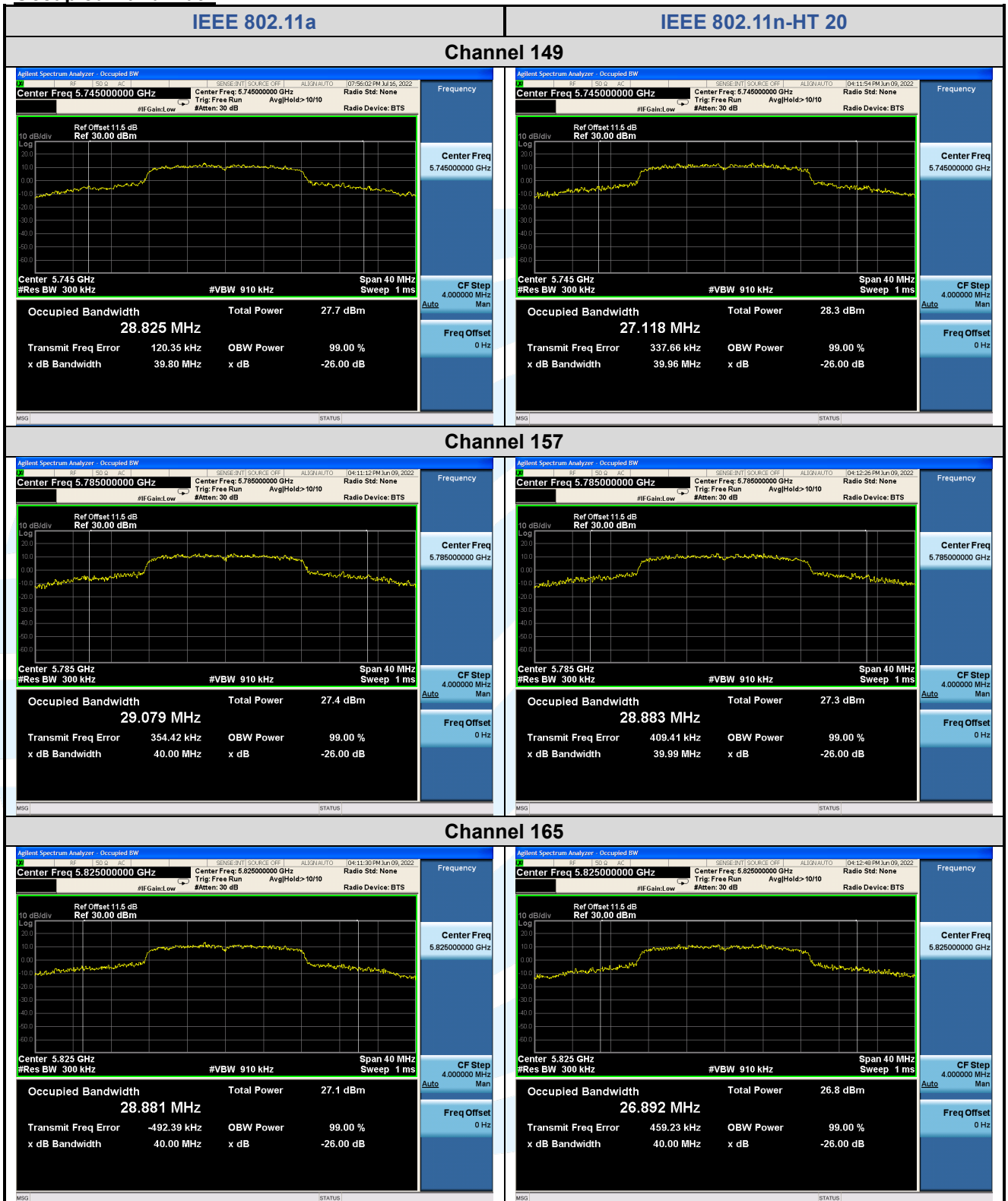
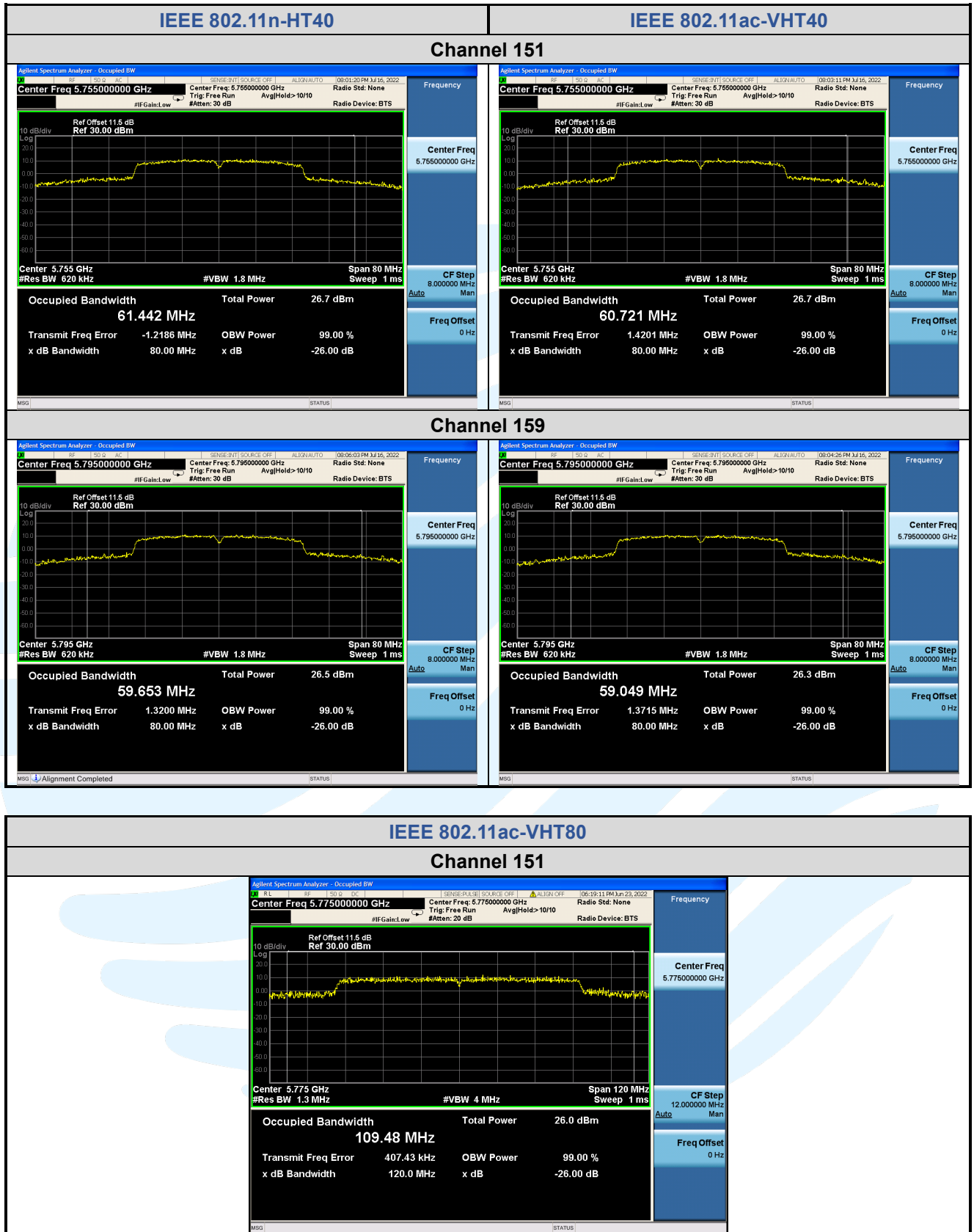




Occupied Bandwidth







5.5 MAXIMUM CONDUCTED OUTPUT POWER OR E.I.R.P

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)
RSS-247 Issue 2 Section 6.2.1.1/6.2.2.1/6.2.3.1/6.2.4.1

Test Method: KDB 789033 D02 v02r01 Section E.3.a (Method PM)

Limits: FCC 47 CFR Part 15 Subpart E

1. For the band 5.15-5.25 GHz.
 - (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
 - (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
 - (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
 - (iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain

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directional antennas are used exclusively for fixed, point-to-point operations.

Limits: RSS-247 Issue 2

1. Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

2. Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Additional requirements

In addition to the above requirements, devices shall comply with the following, where applicable:

- a) Outdoor fixed devices with a maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:
 - i. -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$
 - ii. $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$
 - iii. $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$
 - iv. -42 dBW/MHz for $\theta > 45^\circ$

The measurement procedure defined in Annex A of this document shall be used to verify the compliance to the e.i.r.p. at different elevations.

- b) Devices, other than outdoor fixed devices, having an e.i.r.p. greater than 200 mW shall comply with either i. or ii. below:
 - i. devices shall comply with the e.i.r.p. elevation mask in 6.2.2.3(a); or
 - ii. devices shall implement a method to permanently reduce their e.i.r.p. via a firmware feature in the event that the Department requires it. The test report must demonstrate how the device's power table can be updated to meet this firmware requirement. The manufacturer shall provide this firmware to update all systems automatically in compliance with the directions received from the Department.

3. Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

4. Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices

operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Test Procedure:

1. Connected the EUT's antenna port to measure device by 10dB attenuator.
2. Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of Tx on burst.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Frequency band 5150-5250 MHz

RSS-247 Issue 2:

For IEEE 802.11 a, the minimum 99% emission bandwidth is 24.879 MHz

$$10 \text{ dBm} + 10\log_{10}(24.879) = 23.96 \text{ dBm} > 23 \text{ dBm}$$

So, the 23 dBm limit applicable

For IEEE 802.11 n-HT20/av-VHT 20, the minimum 99% emission bandwidth is 25.239 MHz

$$10 \text{ dBm} + 10\log_{10}(25.239) = 24.02 \text{ dBm} > 23 \text{ dBm}$$

So, the 23 dBm limit applicable

For IEEE 802.11 n-HT40/ac-VHT40/ac-VHT80, the minimum 99% emission bandwidth is 35.998 MHz

$$10 \text{ dBm} + 10\log_{10}(35.998) = 25.56 \text{ dBm} > 23 \text{ dBm}$$

So, the 23 dBm limit applicable

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)	Maximum e.i.r.p (dBm)	Limit (dBm)	Pass / Fail
IEEE 802.11a	36 (5180)	12.82	17.32	23	Pass
	44 (5220)	12.77	17.27	23	Pass
	48 (5240)	13.02	17.52	23	Pass
IEEE 802.11n-HT20	36 (5180)	12.53	17.03	23	Pass
	44 (5220)	12.55	17.05	23	Pass
	48 (5240)	12.70	17.20	23	Pass
IEEE 802.11n-HT40	38 (5190)	16.89	21.39	23	Pass
	46 (5230)	16.87	21.37	23	Pass
IEEE 802.11ac-VHT20	36 (5180)	12.48	16.98	23	Pass
	44 (5220)	12.45	16.95	23	Pass
	48 (5240)	12.73	17.23	23	Pass
IEEE 802.11ac-VHT40	38 (5190)	17.00	21.50	23	Pass
	46 (5230)	17.18	21.68	23	Pass
IEEE 802.11ac-VHT80	42 (5210)	14.82	19.32	23	Pass
Remark: - Maximum e.i.r.p = Maximum conducted output power + Antenna Gain; Antenna Gain= 4.5 dBi. - The maximum EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.					

FCC 47 CFR Part 15 Subpart E:

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)	Limit (dBm)	Pass / Fail
IEEE 802.11a	36 (5180)	18.76	24	Pass
	44 (5220)	18.43	24	Pass
	48 (5240)	19.02	24	Pass
IEEE 802.11n-HT20	36 (5180)	17.71	24	Pass
	44 (5220)	18.13	24	Pass
	48 (5240)	18.82	24	Pass
IEEE 802.11n-HT40	38 (5190)	16.89	24	Pass
	46 (5230)	16.87	24	Pass
IEEE 802.11ac-VHT20	36 (5180)	18.78	24	Pass
	44 (5220)	18.54	24	Pass
	48 (5240)	19.03	24	Pass
IEEE 802.11ac-VHT40	38 (5190)	17.00	24	Pass
	46 (5230)	17.18	24	Pass
IEEE 802.11ac-VHT80	42 (5210)	14.82	24	Pass
Remark: 1. Maximum conducted output power = Conducted output power + Duty Cycle Factor 2. The maximum EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.				

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Frequency band 5250-5350 MHz

RSS-247 Issue 2:

For IEEE 802.11 a/n-HT20/ac-VHT 20, the minimum 99% emission bandwidth is 26.190 MHz

$$11 \text{ dBm} + 10\log_{10}(26.190) = 25.18 \text{ dBm} > 24\text{dBm}$$

So, the 24 dBm limit applicable

$$17\text{dBm} + 10\log_{10}(26.190) = 31.18 \text{ dBm} > 30 \text{ dBm}(1\text{W})$$

So, the 30 dBm limit applicable for e.i.r.p

For IEEE 802.11 n-HT40/ac-VHT80, the minimum 99% emission bandwidth is 35.974 MHz

$$11 \text{ dBm} + 10\log_{10}(35.974) = 26.56 \text{ dBm} > 24 \text{ dBm} (250\text{mW})$$

So, the 24 dBm limit applicable

FCC 47 CFR Part 15 Subpart E:

For IEEE 802.11 a/n/ac, the minimum 26 dB emission bandwidth is 39.70 MHz

$$11 \text{ dBm} + 10\log_{10}(39.70) = 26.99 \text{ dBm} > 24 \text{ dBm} (250\text{mW})$$

So, the 24 dBm limit applicable

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)	Maximum e.i.r.p (dBm)	Limit (dBm)			Pass / Fail
				Conducted		e.i.r.p	
				FCC Part 15E	RSS-247		
IEEE 802.11a	52 (5260)	18.85	23.35	24	24	30	Pass
	60 (5300)	18.94	23.44	24	24	30	Pass
	64 (5320)	18.77	23.27	24	24	30	Pass
IEEE 802.11n- HT20	52 (5260)	18.74	23.24	24	24	30	Pass
	60 (5300)	17.90	22.40	24	24	30	Pass
	64 (5320)	18.68	23.18	24	24	30	Pass
IEEE 802.11n- HT40	54 (5270)	16.96	21.46	24	24	30	Pass
	62 (5310)	17.20	21.70	24	24	30	Pass
IEEE 802.11ac- VHT20	52 (5260)	18.48	22.98	24	24	30	Pass
	60 (5300)	18.41	22.91	24	24	30	Pass
	64 (5320)	18.67	23.17	24	24	30	Pass
IEEE 802.11ac- VHT40	54 (5270)	17.08	21.58	24	24	30	Pass
	62 (5310)	17.40	21.90	24	24	30	Pass
IEEE 802.11ac- VHT80	58 (5290)	16.16	20.66	24	24	30	Pass

Remark:

- Maximum conducted output power = Conducted output power + Duty Cycle Factor
- Maximum e.i.r.p = Maximum conducted output power + Antenna Gain
- The maximum ERP/EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.

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Frequency bands 5470-5725 MHz (RSS-247 Issue 2 Not including 5600-5650 MHz)

RSS-247 Issue 2:

For IEEE 802.11 a/n-HT20/ac-VHT 20, the minimum 99% emission bandwidth is 24.856 MHz

$$11 \text{ dBm} + 10\log_{10}(24.856) = 24.95 \text{ dBm} > 24 \text{ dBm}$$

So, the 24 dBm limit applicable for conducted

$$17\text{dBm} + 10\log_{10}(24.856) = 30.95 \text{ dBm} > 30 \text{ dBm}(1\text{W})$$

So, the 30 dBm limit applicable for e.i.r.p

For IEEE 802.11 n-HT40/ac-VHT 40/ac-VHT80, the minimum 99% emission bandwidth is 35.927 MHz

$$11 \text{ dBm} + 10\log_{10}(35.927) = 26.55 \text{ dBm} > 24 \text{ dBm}$$

So, the 24 dBm limit applicable

FCC 47 CFR Part 15 Subpart E:

For IEEE 802.11 a/n/ac, the minimum 26 dB emission bandwidth is 39.41 MHz

$$11 \text{ dBm} + 10\log_{10}(39.41) = 26.96 \text{ dBm} > 24 \text{ dBm} (250\text{mW})$$

So, the 24 dBm limit applicable

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)	Maximum e.i.r.p (dBm)	Limit (dBm)			Pass / Fail
				Conducted		e.i.r.p	
				FCC Part 15E	RSS-247		
IEEE 802.11a	100 (5500)	18.51	23.01	24	24	30	Pass
	116 (5580)	18.36	22.86	24	24	30	Pass
	140 (5700)	18.46	22.96	24	24	30	Pass
IEEE 802.11n- HT20	100 (5500)	18.43	22.93	24	24	30	Pass
	116 (5580)	18.26	22.76	24	24	30	Pass
	140 (5700)	18.30	22.80	24	24	30	Pass
IEEE 802.11n- HT40	102 (5510)	15.46	19.96	24	24	30	Pass
	110 (5550)	15.33	19.83	24	24	30	Pass
	134(5670)	15.67	20.17	24	24	30	Pass
IEEE 802.11ac- VHT20	100 (5500)	18.41	22.91	24	24	30	Pass
	116 (5580)	18.06	22.56	24	24	30	Pass
	140 (5700)	18.32	22.82	24	24	30	Pass
IEEE 802.11ac- VHT40	102 (5510)	15.67	20.17	24	24	30	Pass
	110 (5550)	15.51	20.01	24	24	30	Pass
	134(5670)	15.94	20.44	24	24	30	Pass
IEEE 802.11ac- VHT80	110 (5550)	15.02	19.52	24	24	30	Pass
	122(5610)	14.83	19.33	24	24	30	Pass

Remark:

- Maximum conducted output power = Conducted output power + Duty Cycle Factor
- Maximum e.i.r.p = Maximum conducted output power + Antenna Gain
- The maximum ERP/EIRP is calculated from max output power and antenna gain, the antenna gain provided by the customer, and the customer takes all the responsibilities for the accuracy of antenna gain.

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Frequency band 5725-5850 MHz

Mode	Channel/ Frequency (MHz)	Maximum conducted output power (dBm)	Limit (dBm)	Pass / Fail
IEEE 802.11a	149 (5745)	18.68	30	Pass
	157 (5785)	18.36	30	Pass
	165 (5825)	17.80	30	Pass
IEEE 802.11n-HT20	149 (5745)	18.61	30	Pass
	157 (5785)	18.38	30	Pass
	165 (5825)	17.87	30	Pass
IEEE 802.11n-HT40	151 (5755)	18.83	30	Pass
	159 (5795)	18.90	30	Pass
IEEE 802.11ac-VHT20	149 (5745)	18.85	30	Pass
	157 (5785)	18.16	30	Pass
	165 (5825)	17.84	30	Pass
IEEE 802.11ac-VHT40	151 (5755)	18.74	30	Pass
	159 (5795)	18.54	30	Pass
IEEE 802.11ac-VHT80	155 (5775)	18.64	30	Pass

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5.6 POWER SPECTRAL DENSITY

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (a)(1)(2)(3)
RSS-247 Issue 2 Section 6.2.1.1/6.2.2.1/6.2.3.1/6.2.4.1

Test Method: KDB 789033 D02 v02r01 Section F

Limits: FCC 47 CFR Part 15 Subpart E

1. For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

2. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3. For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

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Limits: RSS-247 Issue 2

1. Frequency band 5150-5250 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

For other devices, the maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

2. Frequency band 5250-5350 MHz

For OEM devices installed in vehicles, the maximum e.i.r.p. shall not exceed 30 mW or $1.76 + 10 \log_{10} B$, dBm, whichever is less. Devices shall implement TPC in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW.

Devices, other than devices installed in vehicles, shall comply with the following:

- a) The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band;
- b) The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Additional requirements

In addition to the above requirements, devices shall comply with the following, where applicable:

- a) Outdoor fixed devices with a maximum e.i.r.p. greater than 200 mW shall comply with the following e.i.r.p. at different elevations, where θ is the angle above the local horizontal plane (of the Earth) as shown below:
 - i. -13 dBW/MHz for $0^\circ \leq \theta < 8^\circ$
 - ii. $-13 - 0.716 (\theta - 8)$ dBW/MHz for $8^\circ \leq \theta < 40^\circ$
 - iii. $-35.9 - 1.22 (\theta - 40)$ dBW/MHz for $40^\circ \leq \theta \leq 45^\circ$
 - iv. -42 dBW/MHz for $\theta > 45^\circ$

The measurement procedure defined in Annex A of this document shall be used to verify the compliance to the e.i.r.p. at different elevations.

- b) Devices, other than outdoor fixed devices, having an e.i.r.p. greater than 200 mW shall comply with either i. or ii. below:
 - iii. devices shall comply with the e.i.r.p. elevation mask in 6.2.2.3(a); or
 - iv. devices shall implement a method to permanently reduce their e.i.r.p. via a firmware feature in the event that the Department requires it. The test report must demonstrate how the device's power table can be updated to meet this firmware requirement. The manufacturer shall provide this firmware to update all systems automatically in compliance with the directions received from the Department.

3. Frequency bands 5470-5600 MHz and 5650-5725 MHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

4. Frequency band 5725-5850 MHz

The maximum conducted output power shall not exceed 1 W. The output power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the output power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of

point-to-multipoint³ systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

Test Procedure:

The output from the transmitter was connected to an attenuator and then to the input of the RF Spectrum Analyzer.

Spectrum analyzer according to the following Settings:

1. For U-NII-1, U-NII-2A, U-NII-2C band:

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW ≥ 3 RBW, Detector = RMS
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

2. For U-NII-3 band:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 500 kHz, Set VBW ≥ 3 RBW, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 500 kHz band segment within the fundamental EBW.
- Sweep time = auto, trigger set to "free run".
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup: Refer to section 4.5.3 for details.

Instruments Used: Refer to section 3 for details

Test Mode: Transmitter mode

Test Results: Pass

Test Data:

Frequency band 5150-5250 MHz

RSS-247 Issue 2:

Mode	Channel/ Frequency (MHz)	Power Spectral Density (dBm/MHz)		e.i.r.p. PSD (dBm/MHz)	RSS-27 Limit (dBm/MHz)	Pass / Fail
		Measurement	Result			
IEEE 802.11a	36 (5180)	4.376	4.686	9.186	10	Pass
	44 (5220)	4.093	4.403	8.903	10	Pass
	48 (5240)	4.359	4.669	9.169	10	Pass
IEEE 802.11n- HT20	36 (5180)	4.112	4.402	8.902	10	Pass
	44 (5220)	3.623	3.913	8.413	10	Pass
	48 (5240)	3.938	4.228	8.728	10	Pass
IEEE 802.11ac- VHT20	36 (5180)	4.072	4.332	8.832	10	Pass
	44 (5220)	3.802	4.062	8.562	10	Pass
	48 (5240)	4.013	4.273	8.773	10	Pass

Remark:

- Power spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor
- e.i.r.p. spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor + Antenna Gain

Mode	Channel/ Frequency (MHz)	Power Spectral Density (dBm/MHz)		e.i.r.p. PSD (dBm/MHz)	FCC Part 15E Limit (dBm/MHz)	RSS-27 Limit (dBm/MHz)	Pass / Fail
		Measurement	Result				
IEEE 802.11a	36 (5180)	10.167	10.477	/	11	10	Pass
	44 (5220)	9.773	10.083	/	11	10	Pass
	48 (5240)	10.100	10.41	/	11	10	Pass
IEEE 802.11n- HT20	36 (5180)	9.739	10.029	/	11	10	Pass
	44 (5220)	9.420	9.71	/	11	10	Pass
	48 (5240)	9.653	9.943	/	11	10	Pass
IEEE 802.11n- HT40	38 (5190)	4.809	5.459	9.959	11	10	Pass
	46 (5230)	4.612	5.262	9.762	11	10	Pass
IEEE 802.11ac- VHT20	36 (5180)	9.789	10.049	/	11	10	Pass
	44 (5220)	8.886	9.146	/	11	10	Pass
	48 (5240)	9.777	10.037	/	11	10	Pass
IEEE 802.11ac- VHT40	38 (5190)	4.755	5.405	9.905	11	10	Pass
	46 (5230)	4.708	5.358	9.858	11	10	Pass
IEEE 802.11ac- VHT80	42 (5210)	-1.234	0.106	4.606	11	10	Pass

Remark:

- Power spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor
- e.i.r.p. spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor +Antenna Gain

Frequency band 5250-5350 MHz

Mode	Channel/ Frequency (MHz)	Power spectral density (dBm/MHz)		Limit (dBm/MHz)	Pass / Fail
		Measurement	Result		
IEEE 802.11a	52 (5260)	9.870	10.180	11	Pass
	60 (5300)	9.924	10.234	11	Pass
	64 (5320)	9.713	10.023	11	Pass
IEEE 802.11n-HT20	52 (5260)	9.531	9.821	11	Pass
	60 (5300)	9.595	9.885	11	Pass
	64 (5320)	8.794	9.084	11	Pass
IEEE 802.11n-HT40	54 (5270)	4.624	5.274	11	Pass
	62 (5310)	4.599	5.249	11	Pass
IEEE 802.11ac-VHT20	52 (5260)	9.687	9.947	11	Pass
	60 (5300)	9.516	9.776	11	Pass
	64 (5320)	9.472	9.732	11	Pass
IEEE 802.11ac-VHT40	54 (5270)	4.510	5.160	11	Pass
	62 (5310)	4.767	5.417	11	Pass
IEEE 802.11ac-VHT80	58 (5290)	-0.243	1.097	11	Pass

Remark:

- Power spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor

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Frequency bands 5470-5725 MHz (RSS-247 Issue 2 Not including 5600-5650 MHz)

Mode	Channel/ Frequency (MHz)	Power Spectral Density (dBm/MHz)		Limit (dBm/MHz)	Pass / Fail
		Measurement	Result		
IEEE 802.11a	100 (5500)	9.666	9.976	11	Pass
	116 (5580)	10.311	10.621	11	Pass
	140 (5700)	10.250	10.56	11	Pass
IEEE 802.11n-HT20	100 (5500)	9.381	9.671	11	Pass
	116 (5580)	9.819	10.109	11	Pass
	140 (5700)	9.955	10.245	11	Pass
IEEE 802.11n-HT40	102 (5510)	2.851	3.501	11	Pass
	110 (5550)	3.259	3.909	11	Pass
	134 (5670)	3.655	4.305	11	Pass
IEEE 802.11ac-VHT20	100 (5500)	9.532	9.792	11	Pass
	116 (5580)	9.663	9.923	11	Pass
	140 (5700)	9.997	10.257	11	Pass
IEEE 802.11ac-VHT40	102 (5510)	4.663	5.313	11	Pass
	110 (5550)	4.808	5.458	11	Pass
	134 (5670)	5.221	5.871	11	Pass
IEEE 802.11ac-VHT80	106 (5530)	-1.217	0.123	11	Pass

Remark:

1. Power spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor

Frequency band 5725-5850 MHz

Mode	Channel/ Frequency (MHz)	Power Spectral Density (dBm/MHz)		Limit (dBm/500KHz)	Pass / Fail
		Measurement	Result		
IEEE 802.11a	149 (5745)	7.289	7.599	30	Pass
	157 (5785)	7.128	7.438	30	Pass
	165 (5825)	6.285	6.595	30	Pass
IEEE 802.11n-HT20	149 (5745)	7.020	7.310	30	Pass
	157 (5785)	6.866	7.156	30	Pass
	165 (5825)	6.346	6.636	30	Pass
IEEE 802.11n-HT40	151 (5755)	4.048	4.698	30	Pass
	159 (5795)	3.343	3.993	30	Pass
IEEE 802.11ac-VHT20	149 (5745)	7.371	7.631	30	Pass
	157 (5785)	6.792	7.052	30	Pass
	165 (5825)	6.179	6.439	30	Pass
IEEE 802.11ac-VHT40	151 (5755)	3.803	4.453	30	Pass
	159 (5795)	3.359	4.009	30	Pass
IEEE 802.11ac-VHT80	155 (5775)	4.217	5.557	30	Pass

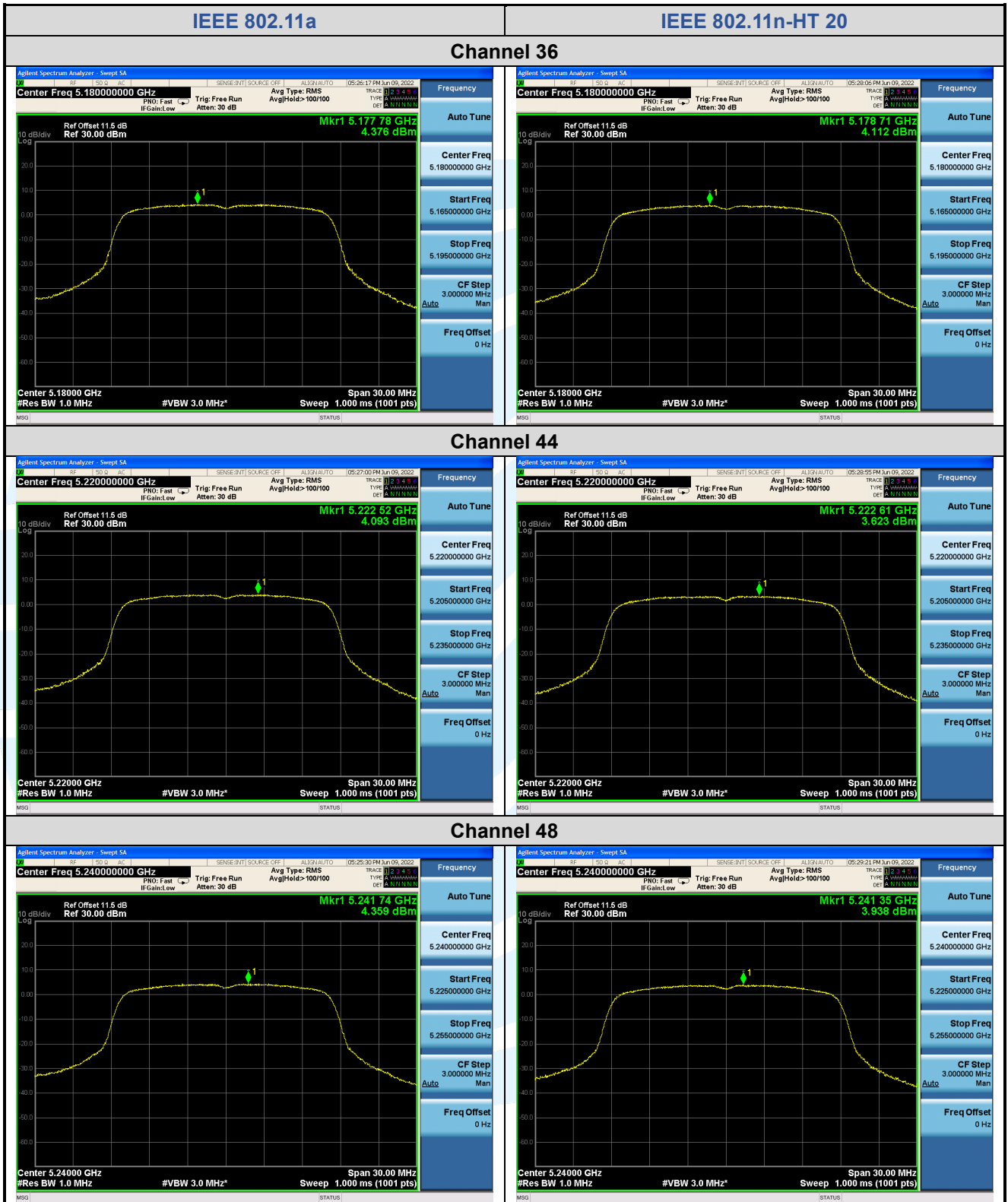
Remark:

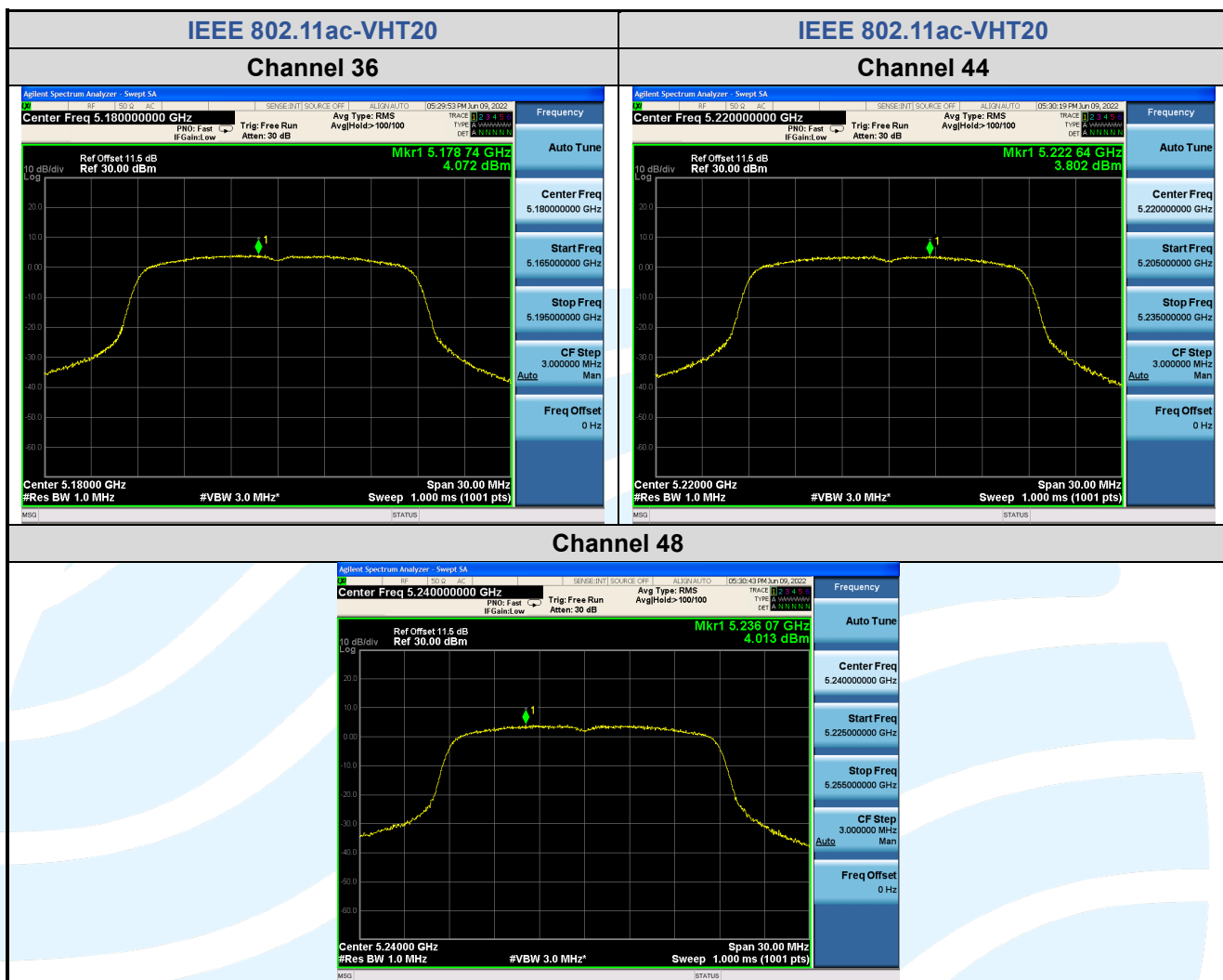
1. Power spectral density = Conducted power spectral density (Measurement) + Duty Cycle Factor

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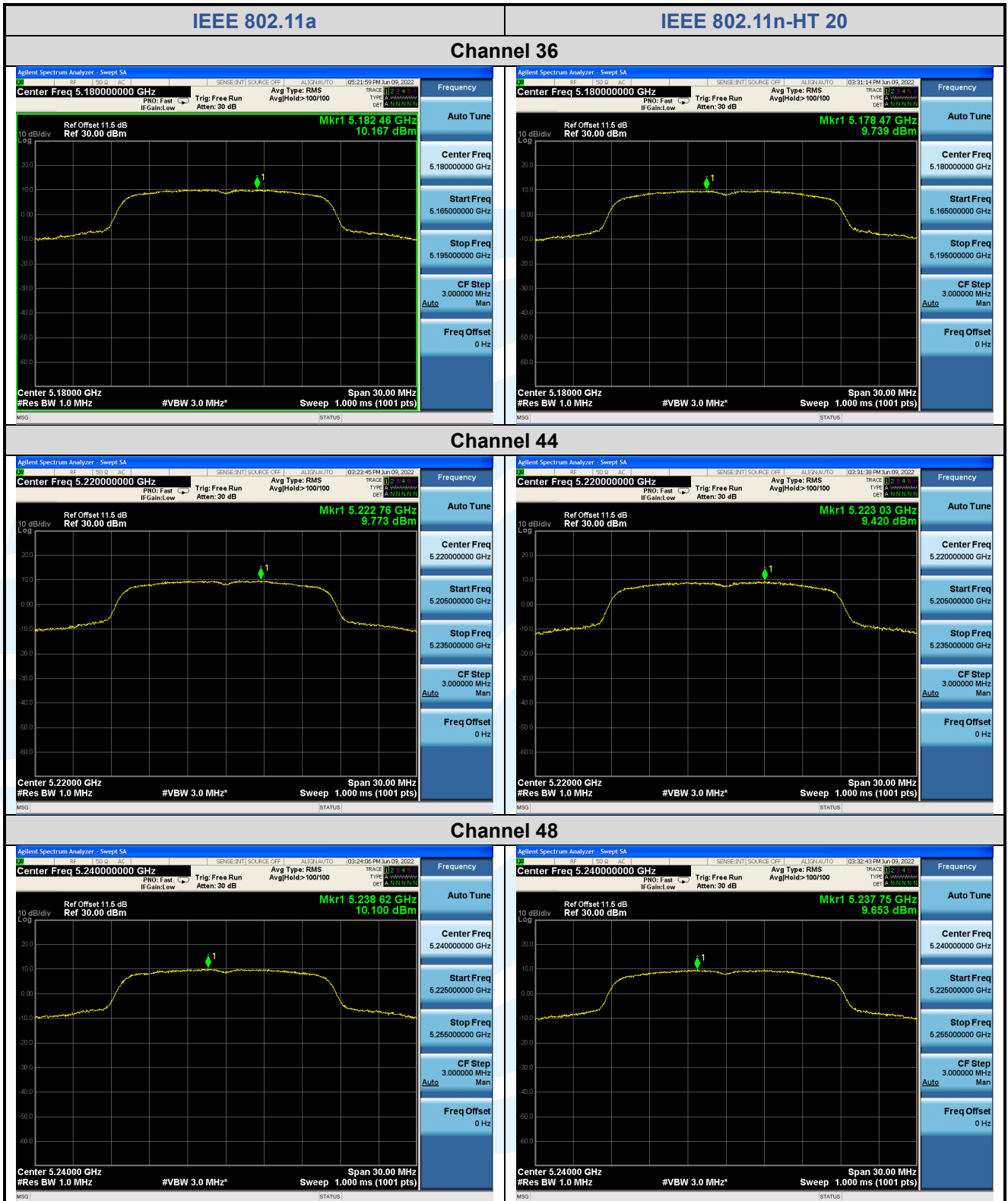
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The test plots as follows:
Frequency band 5150-5250 MHz
RSS-247 Issue 2:





FCC Part 15E:



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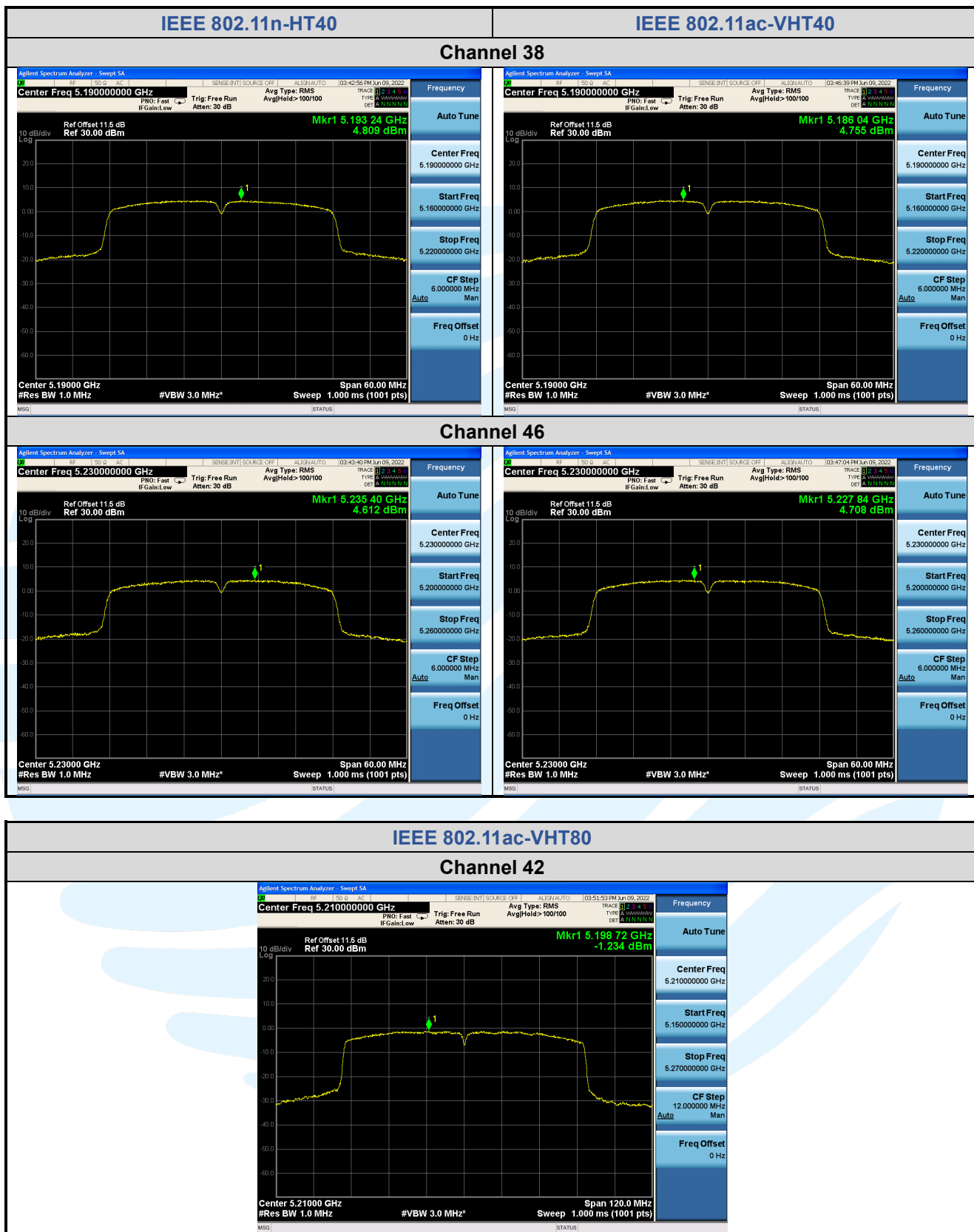
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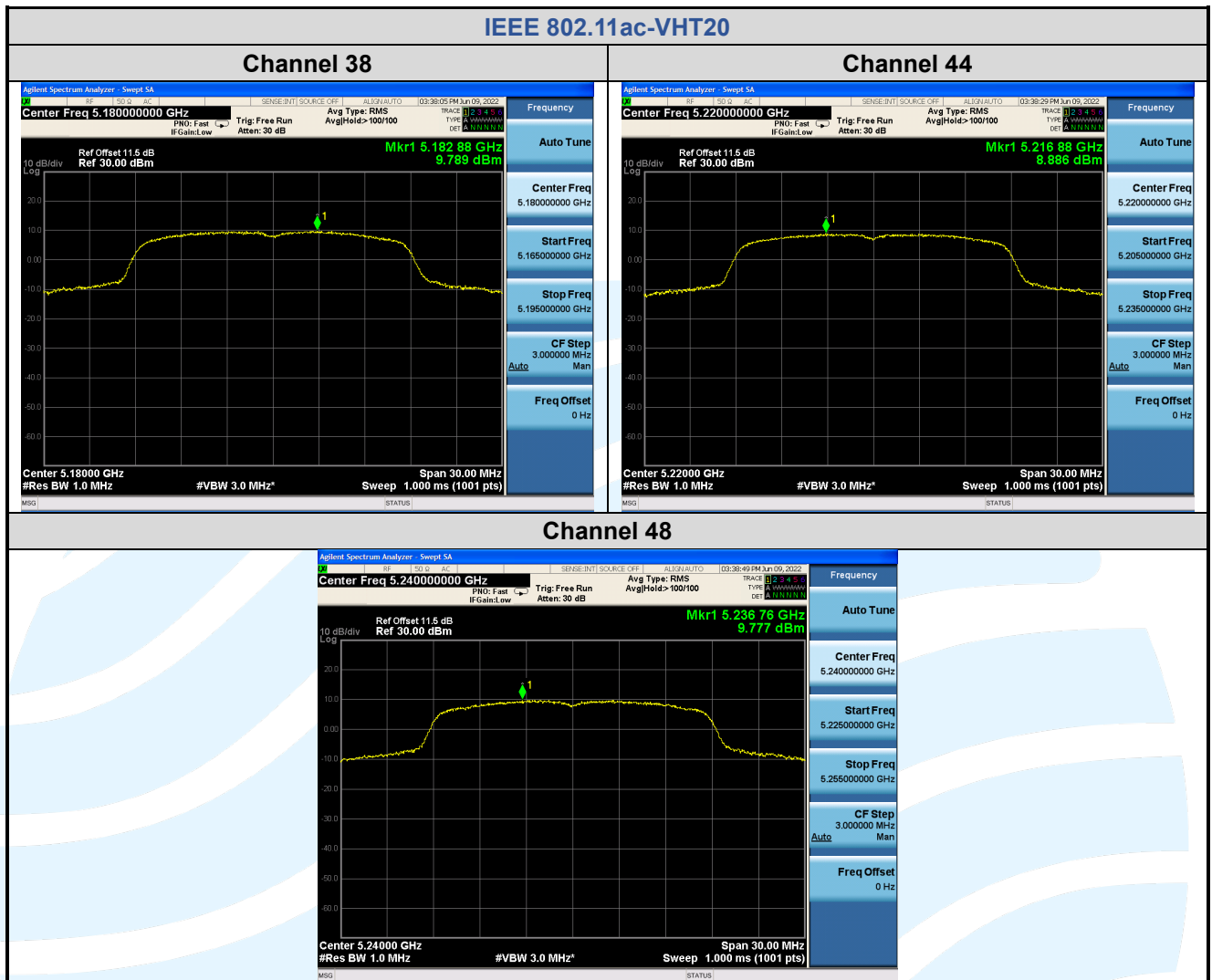
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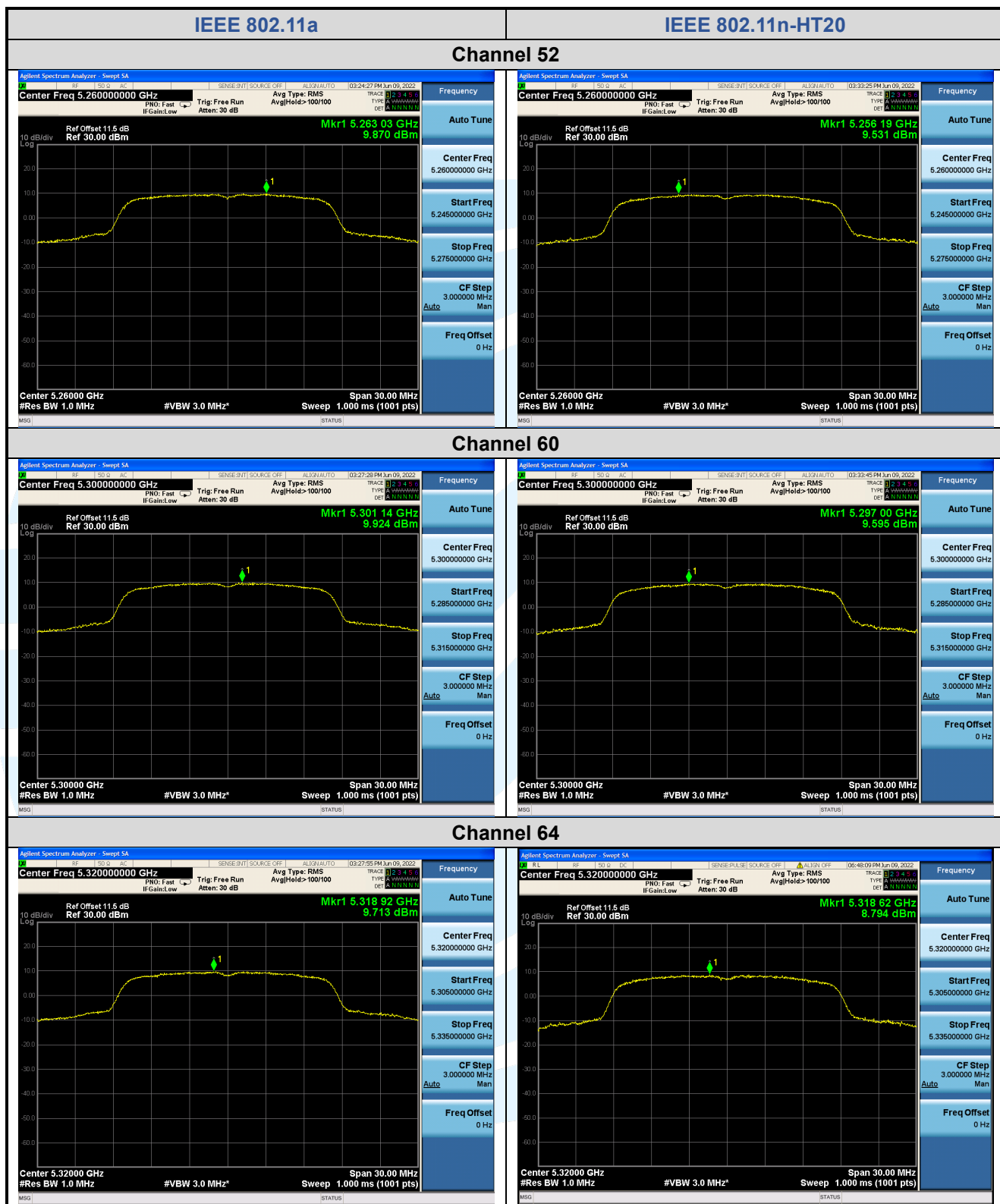
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Frequency band 5250-5350 MHz



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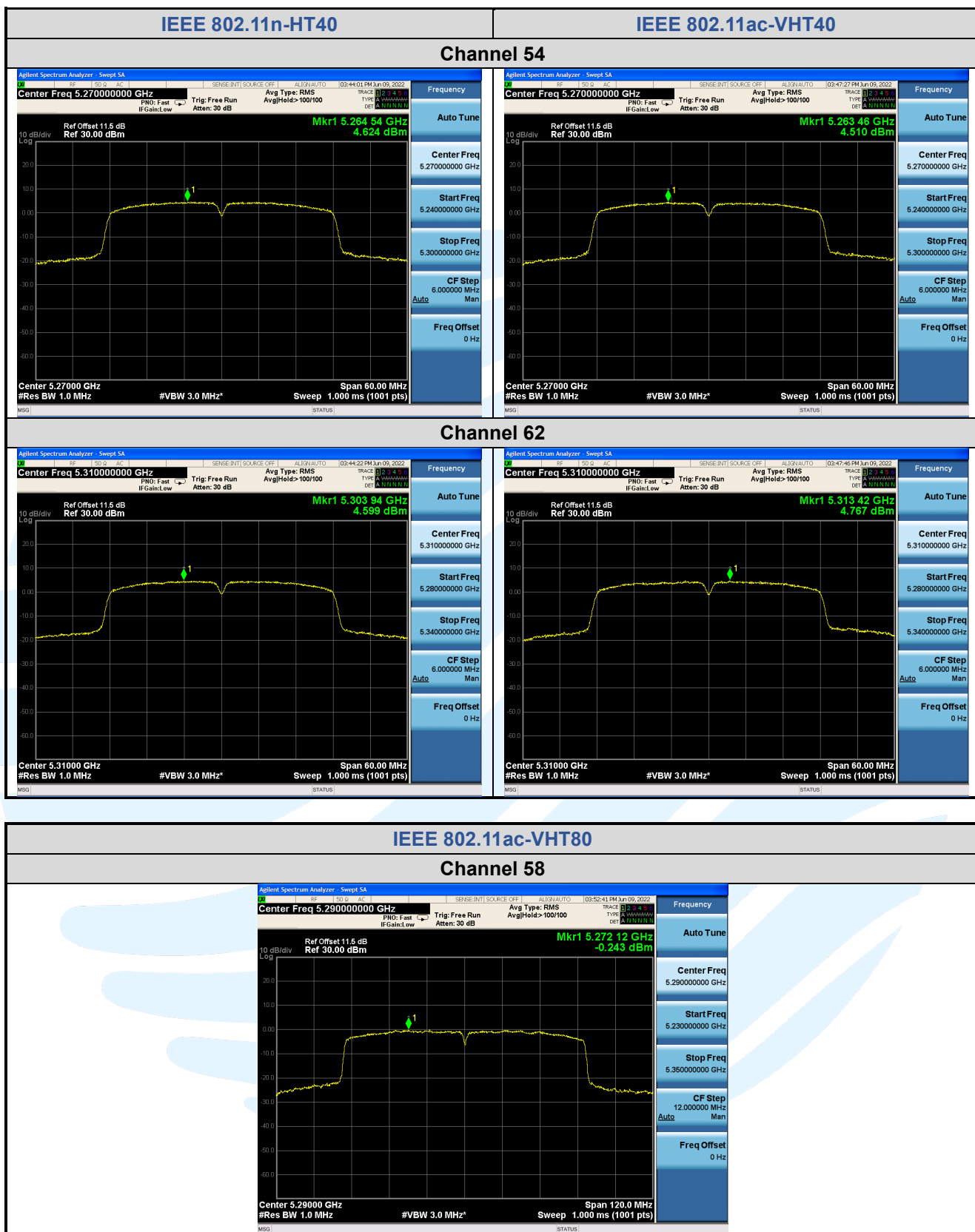
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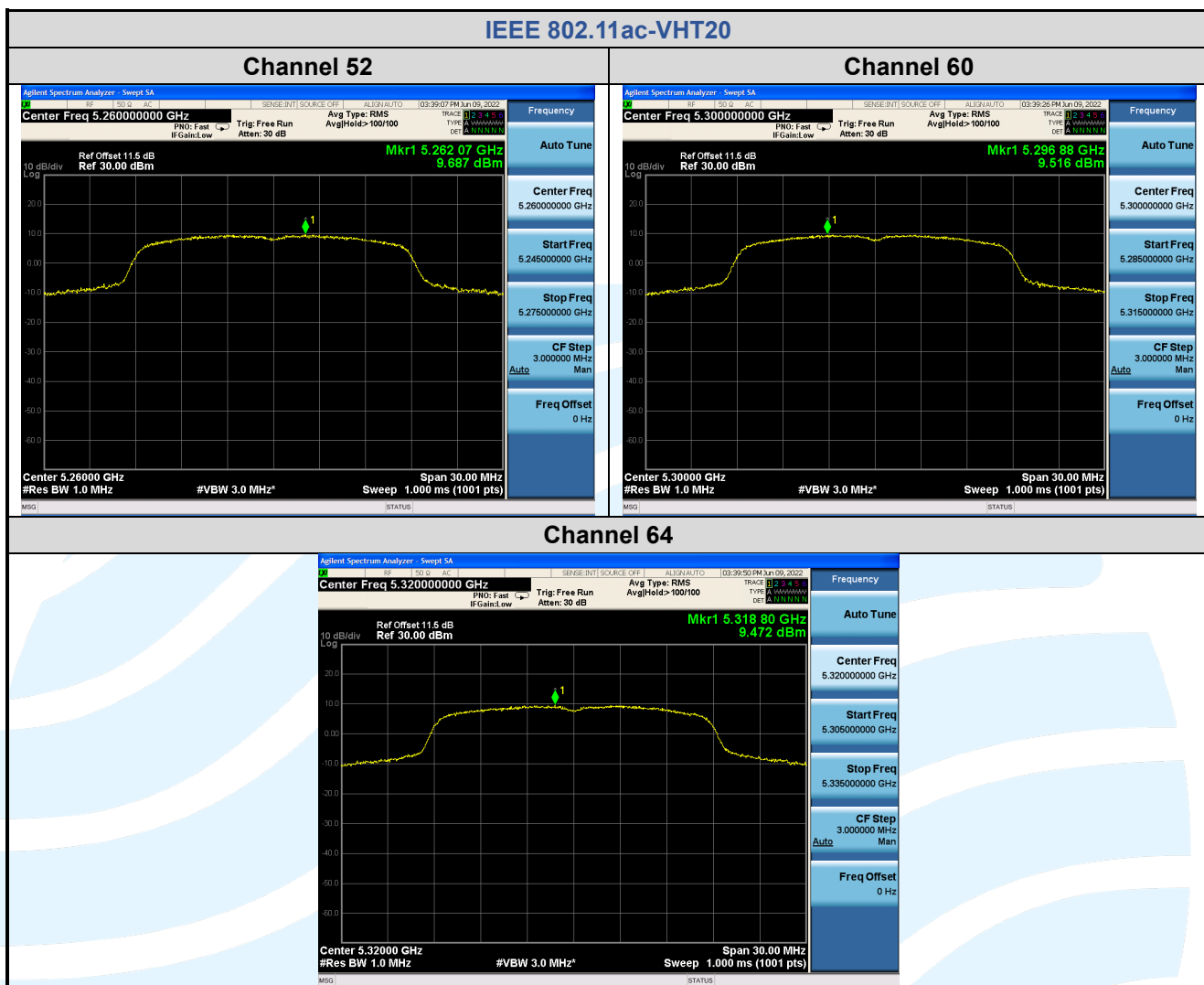
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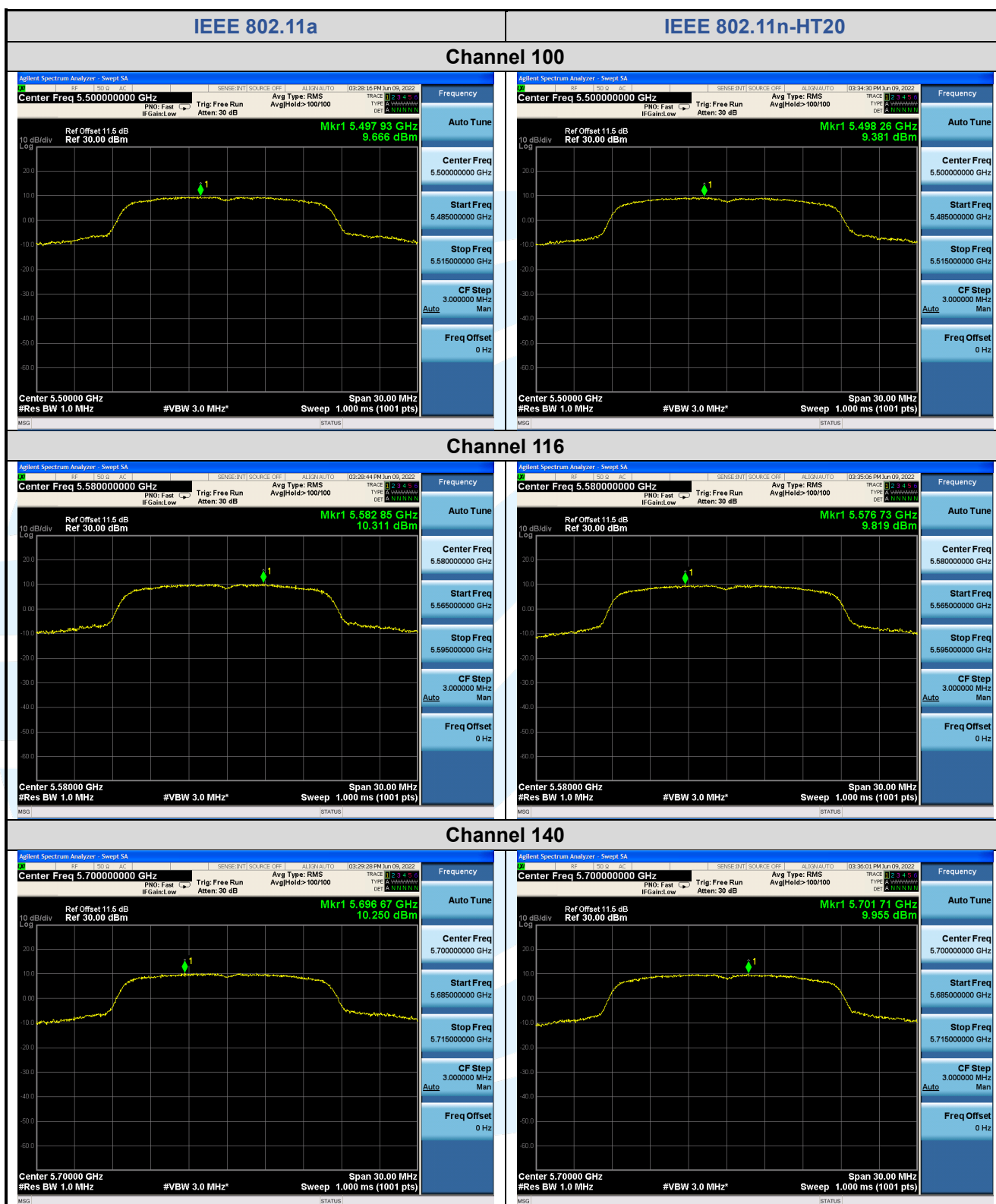
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Frequency bands 5470-5725 MHz



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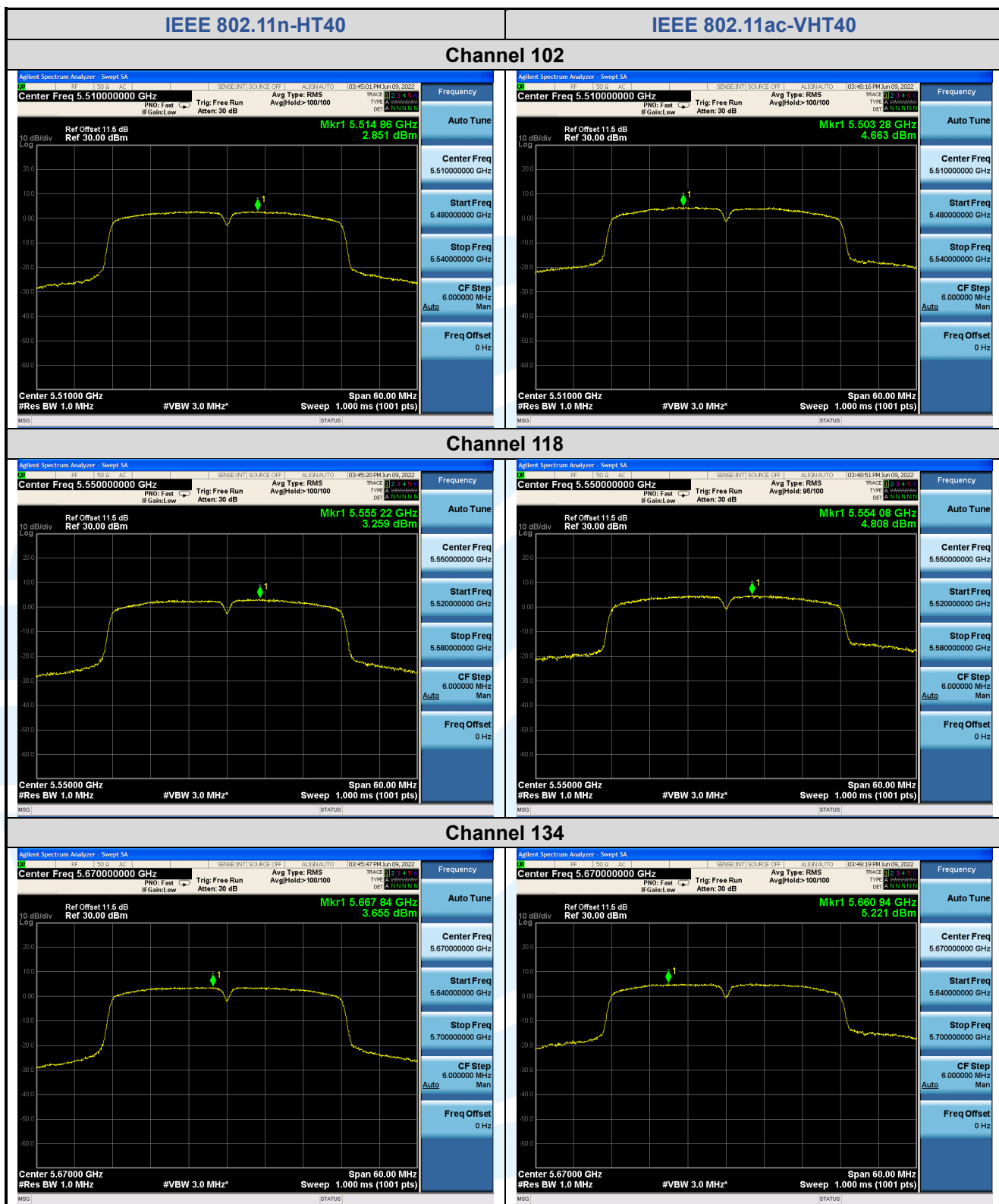
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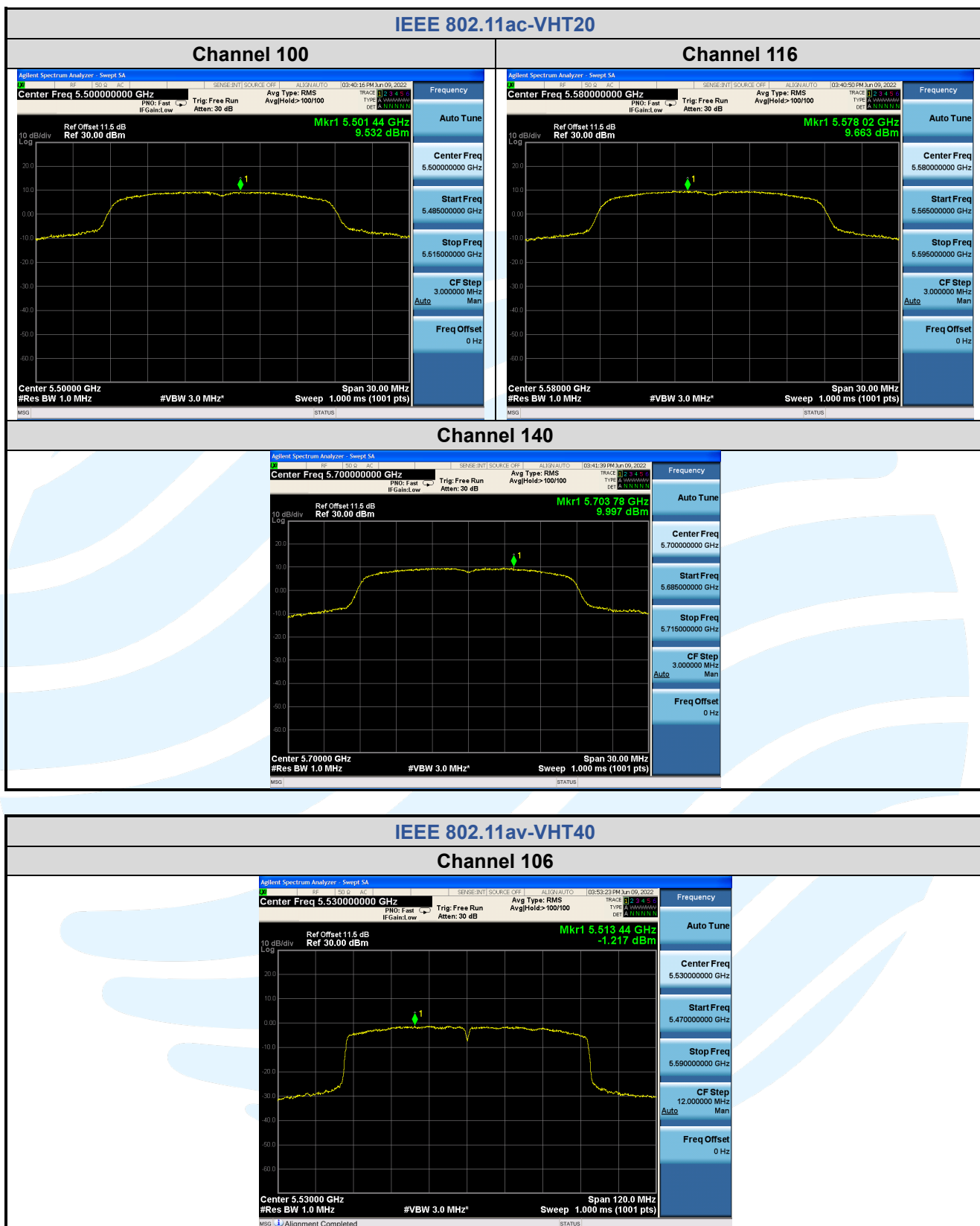
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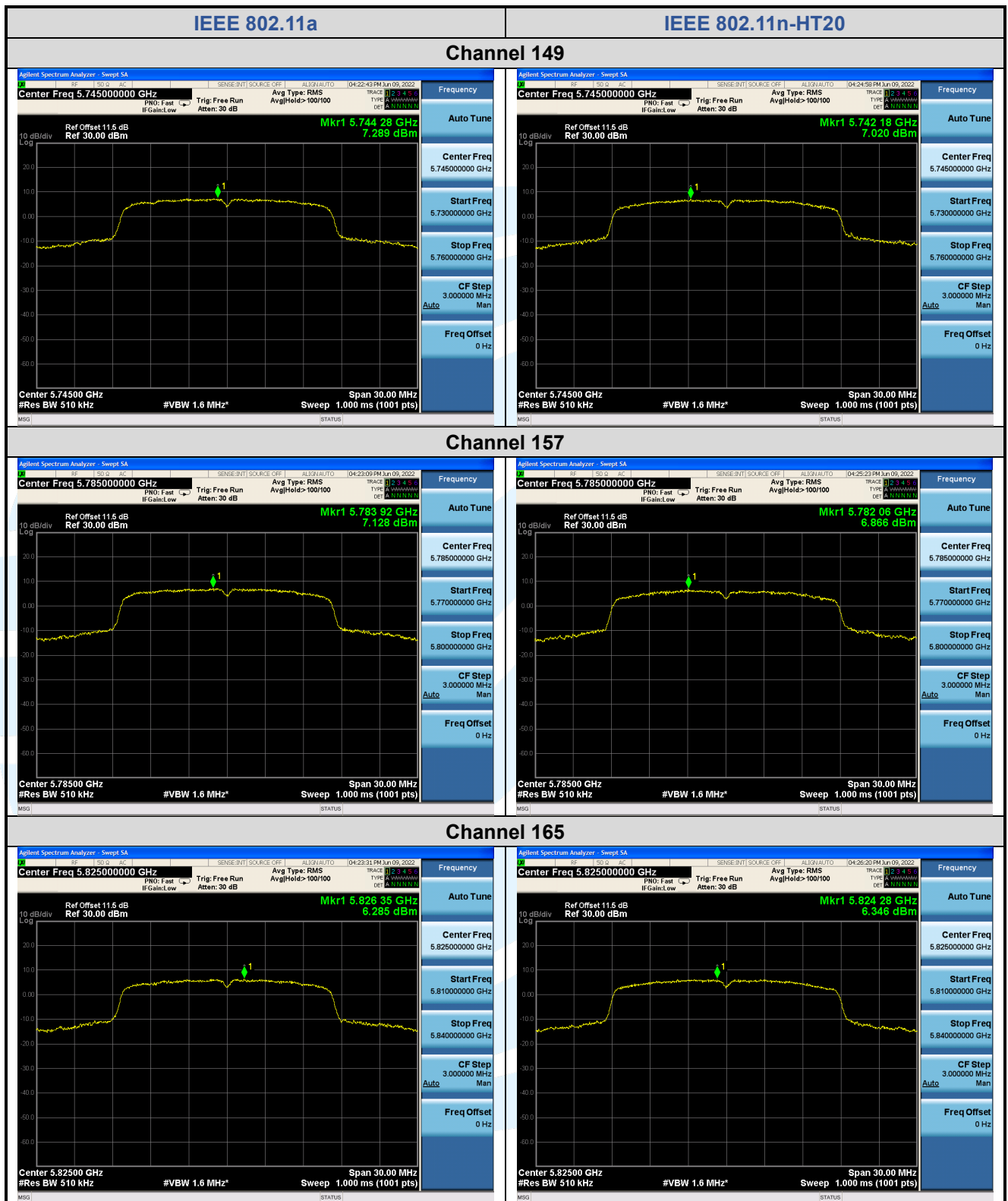
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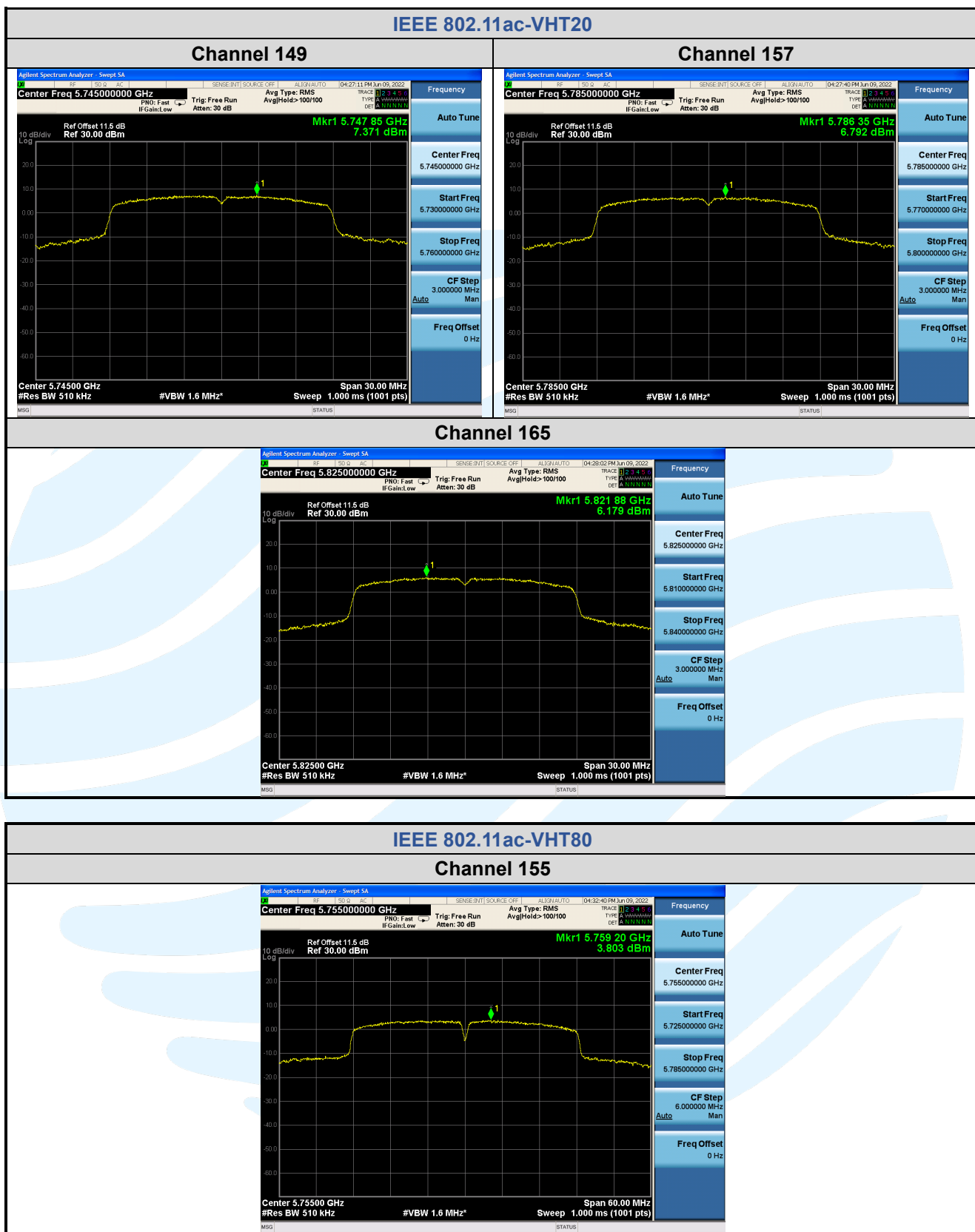
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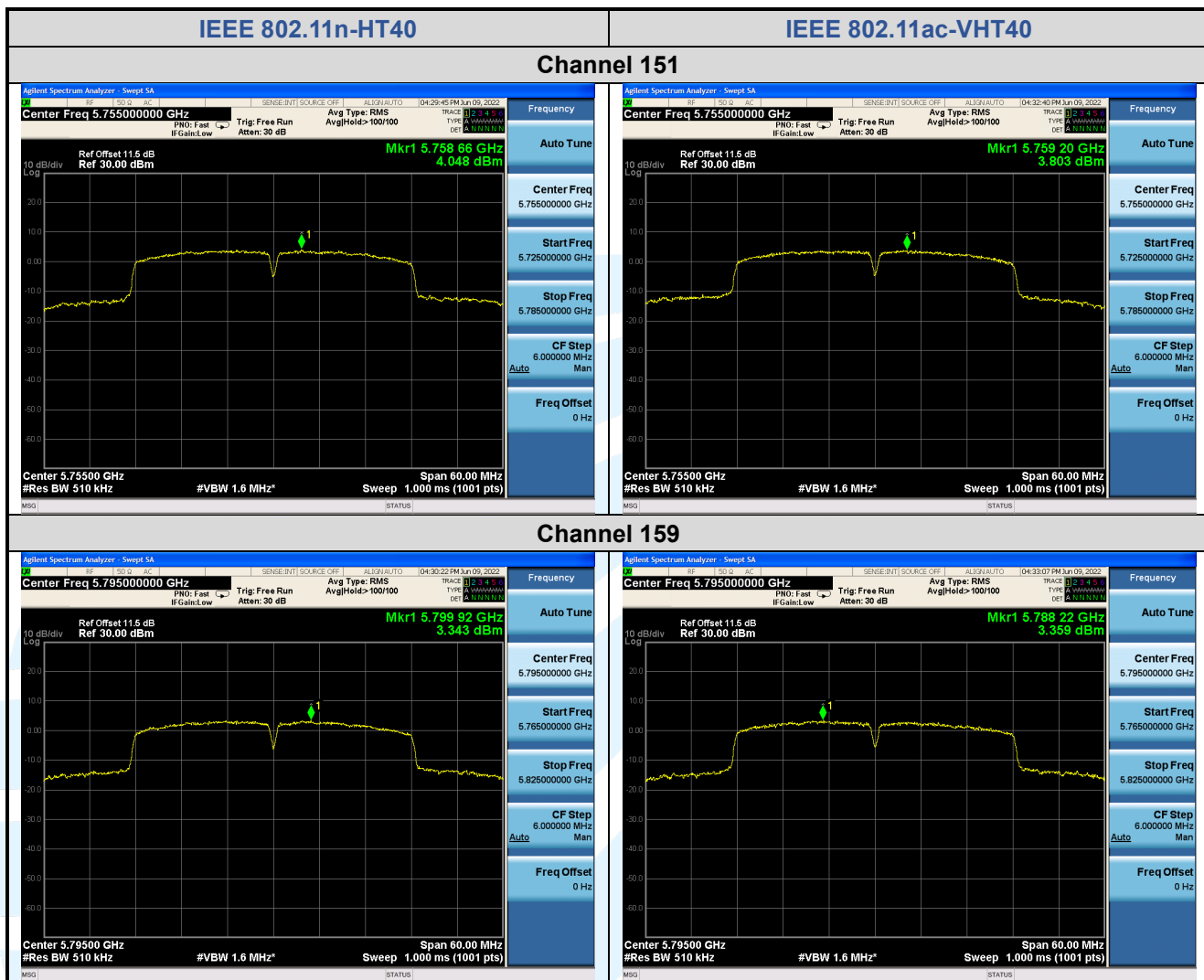




Frequency band 5725-5850 MHz







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5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)

FCC 47 CFR Part 15 Subpart C Section 15.209/205

RSS-247 Issue 2 Section 6.2.1.2/6.2.2.2/6.2.3.2/6.2.4.2

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

Receiver Setup:

Frequency	RBW
0.009 MHz-0.150 MHz	200/300 kHz
0.150 MHz -30 MHz	9/10 kHz
30 MHz-1 GHz	100/120 kHz
Above 1 GHz	1 MHz

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009 MHz-0.490 MHz	2400/F(kHz)	--	--	300
0.490 MHz-1.705 MHz	24000/F(kHz)	--	--	30
1.705 MHz-30 MHz	30	--	--	30
30 MHz-88 MHz	100	40.0	Quasi-peak	3
88 MHz-216 MHz	150	43.5	Quasi-peak	3
216 MHz-960 MHz	200	46.0	Quasi-peak	3
960MHz-1GHz	500	54.0	Quasi-peak	3
Above 1 GHz	500	54.0	Average	3

Remark:

- The lower limit shall apply at the transition frequencies.
- Emission level (dB μ V/m) = 20 log Emission level (uV/m).
- For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.

2. Limits of Unwanted Emission Out of the Restricted Bands

Applicable To	Limit	
789033 D02 General U-NII Test Procedures New Rules v01r04	Field Strength at 3 m	
	PK: 74 (dB μ V/m)	AV: 54 (dB μ V/m)
Applicable To	EIRP Limit	Equivalent Field Strength at 3 m
RSS-247 Issue 2 Section 6.2.1.2	PK: -27 (dBm/MHz)	PK: 74 (dB μ V/m)
RSS-247 Issue 2 Section 6.2.2.2	PK: -27 (dBm/MHz)	PK: 74 (dB μ V/m)
RSS-247 Issue 2 Section 6.2.3.2	PK: -27 (dBm/MHz)	PK: 68.2 (dB μ V/m)
RSS-247 Issue 2 Section 6.2.4.2	27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;	PK: 68.2 (dB μ V/m)
	15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;	
	10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges;	
	-27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.	

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi-peak detection (QP) at frequency below 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle $\geq$ 98 %) or $\geq 1/T$ (duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- All modes of operation were investigated and the worst-case emissions are reported.

Equipment Used: Refer to section 3 for details.

Test Result: Pass

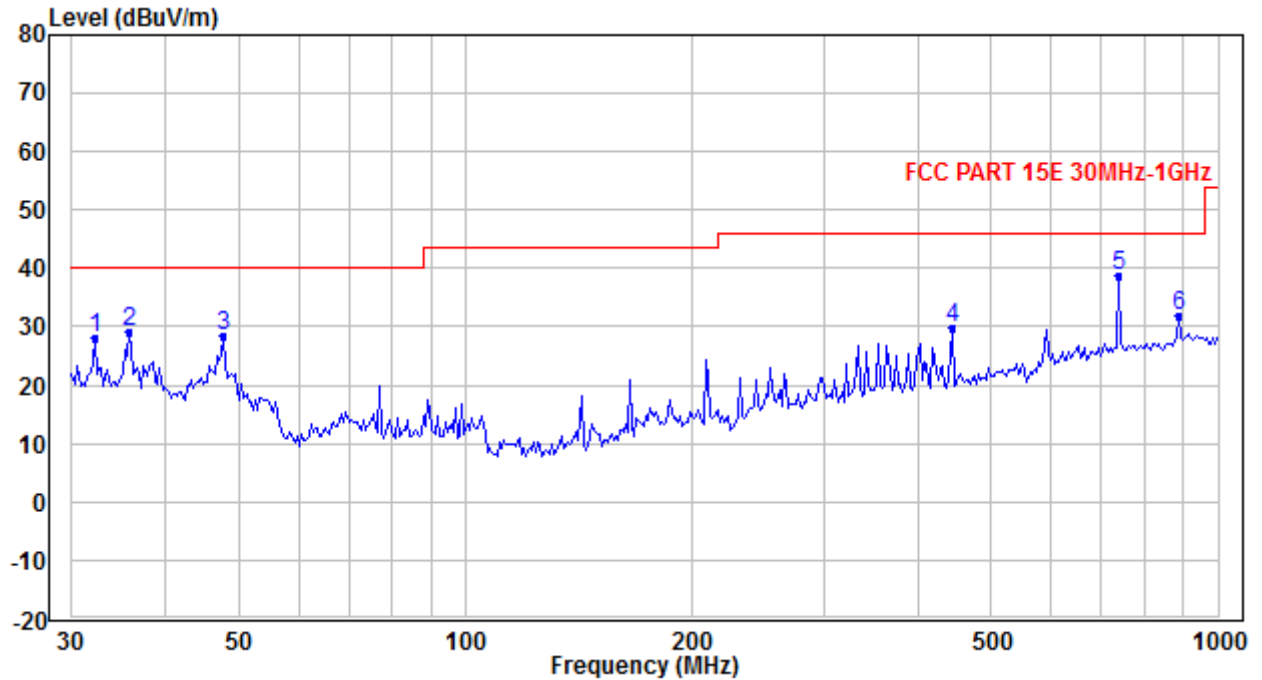
The measurement data as follows:

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Radiated Emission Test Data (9 kHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

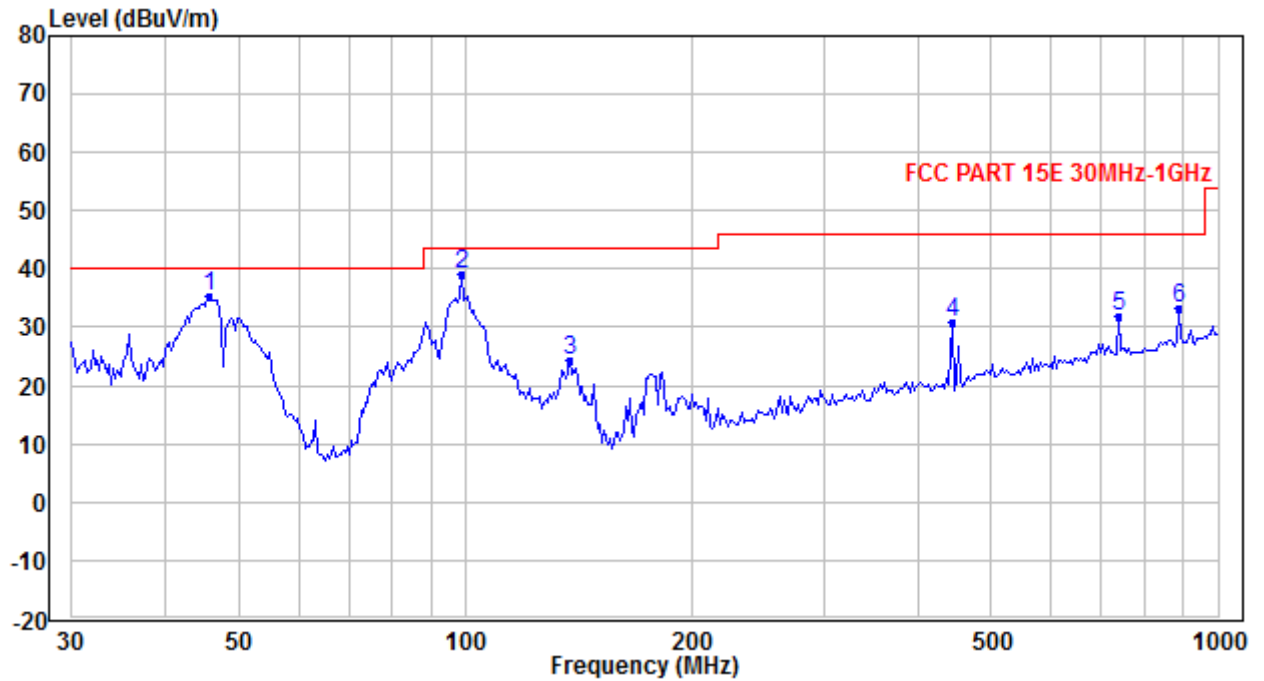
Radiated Emission Test Data (30 MHz ~ 1 GHz Worst Case):
Worst-Case Configuration
Horizontal


No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	32.184	32.70	-4.75	27.95	40.00	-12.05	Peak
2	35.762	34.34	-5.14	29.20	40.00	-10.80	Peak
3	47.703	41.47	-13.04	28.43	40.00	-11.57	Peak
4	442.572	34.06	-4.30	29.76	46.00	-16.24	Peak
5	739.214	36.71	2.00	38.71	46.00	-7.29	Peak
6	887.398	27.84	4.12	31.96	46.00	-14.04	Peak

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Vertical



No.	Frequency (MHz)	Reading (dBuV)	Correction factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	45.733	47.02	-11.70	35.32	40.00	-4.68	Peak
2	99.069	55.02	-15.90	39.12	43.50	-4.38	Peak
3	137.840	40.35	-15.88	24.47	43.50	-19.03	Peak
4	442.572	35.11	-4.30	30.81	46.00	-15.19	Peak
5	739.214	30.01	2.00	32.01	46.00	-13.99	Peak
6	887.398	29.10	4.12	33.22	46.00	-12.78	Peak

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Radiated Emission Test Data (Above 1GHz):
IEEE 802.11a_Channel 36

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	38.72	6.24	44.96	74.00	-29.04	Peak	Horizontal
2	10360.00	26.60	6.24	32.84	54.00	-21.16	Average	Horizontal
3	15540.00	36.06	11.27	47.33	74.00	-26.67	Peak	Horizontal
4	15540.00	23.65	11.27	34.92	54.00	-19.08	Average	Horizontal
5	10360.00	39.44	6.24	45.68	74.00	-28.32	Peak	Vertical
6	10360.00	26.60	6.24	32.84	54.00	-21.16	Average	Vertical
7	15540.00	35.42	11.27	46.69	74.00	-27.31	Peak	Vertical
8	15540.00	23.65	11.27	34.92	54.00	-19.08	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 44

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	39.75	6.30	46.05	74.00	-27.95	Peak	Horizontal
2	10440.00	26.23	6.30	32.53	54.00	-21.47	Average	Horizontal
3	15660.00	36.11	11.40	47.51	74.00	-26.49	Peak	Horizontal
4	15660.00	24.00	11.40	35.40	54.00	-18.60	Average	Horizontal
5	10440.00	38.71	6.30	45.01	74.00	-28.99	Peak	Vertical
6	10440.00	26.16	6.30	32.46	54.00	-21.54	Average	Vertical
7	15660.00	35.67	11.40	47.07	74.00	-26.93	Peak	Vertical
8	15660.00	24.00	11.40	35.40	54.00	-18.60	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 48

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	39.54	6.33	45.87	74.00	-28.13	Peak	Horizontal
2	10480.00	25.89	6.33	32.22	54.00	-21.78	Average	Horizontal
3	15720.00	34.69	11.48	46.17	74.00	-27.83	Peak	Horizontal
4	15720.00	23.47	11.48	34.95	54.00	-19.05	Average	Horizontal
5	10480.00	37.84	6.33	44.17	74.00	-29.83	Peak	Vertical
6	10480.00	25.82	6.33	32.15	54.00	-21.85	Average	Vertical
7	15720.00	36.05	11.48	47.53	74.00	-26.47	Peak	Vertical
8	15720.00	23.47	11.48	34.95	54.00	-19.05	Average	Vertical

IEEE 802.11a_Channel 52

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	38.27	6.39	44.66	74.00	-29.34	Peak	Horizontal
2	10520.00	25.91	6.39	32.30	54.00	-21.70	Average	Horizontal
3	15780.00	37.34	11.56	48.90	74.00	-25.10	Peak	Horizontal
4	15780.00	23.49	11.56	35.05	54.00	-18.95	Average	Horizontal
5	10520.00	39.61	6.39	46.00	74.00	-28.00	Peak	Vertical
6	10520.00	25.83	6.39	32.22	54.00	-21.78	Average	Vertical
7	15780.00	34.88	11.56	46.44	74.00	-27.56	Peak	Vertical
8	15780.00	23.49	11.56	35.05	54.00	-18.95	Average	Vertical

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IEEE 802.11a_Channel 60

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	38.19	6.56	44.75	74.00	-29.25	Peak	Horizontal
2	10600.00	25.40	6.56	31.96	54.00	-22.04	Average	Horizontal
3	15900.00	35.26	11.71	46.97	74.00	-27.03	Peak	Horizontal
4	15900.00	23.85	11.71	35.56	54.00	-18.44	Average	Horizontal
5	10600.00	38.81	6.56	45.37	74.00	-28.63	Peak	Vertical
6	10600.00	25.47	6.56	32.03	54.00	-21.97	Average	Vertical
7	15900.00	34.95	11.71	46.66	74.00	-27.34	Peak	Vertical
8	15900.00	23.69	11.71	35.40	54.00	-18.60	Average	Vertical

IEEE 802.11a_Channel 64

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	37.80	6.64	44.44	74.00	-29.56	Peak	Horizontal
2	10640.00	25.32	6.64	31.96	54.00	-22.04	Average	Horizontal
3	15960.00	36.02	11.77	47.79	74.00	-26.21	Peak	Horizontal
4	15960.00	23.79	11.77	35.56	54.00	-18.44	Average	Horizontal
5	10640.00	38.71	6.64	45.35	74.00	-28.65	Peak	Vertical
6	10640.00	25.32	6.64	31.96	54.00	-22.04	Average	Vertical
7	15960.00	34.47	11.77	46.24	74.00	-27.76	Peak	Vertical
8	15960.00	23.69	11.77	35.46	54.00	-18.54	Average	Vertical

IEEE 802.11a_Channel 100

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	38.79	7.42	46.21	74.00	-27.79	Peak	Horizontal
2	11000.00	26.09	7.42	33.51	54.00	-20.49	Average	Horizontal
3	16500.00	34.94	12.35	47.29	74.00	-26.71	Peak	Horizontal
4	16500.00	23.13	12.35	35.48	54.00	-18.52	Average	Horizontal
5	11000.00	36.75	7.42	44.17	74.00	-29.83	Peak	Vertical
6	11000.00	26.16	7.42	33.58	54.00	-20.42	Average	Vertical
7	16500.00	36.30	12.35	48.65	74.00	-25.35	Peak	Vertical
8	16500.00	23.13	12.35	35.48	54.00	-18.52	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 116

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	38.40	7.32	45.72	74.00	-28.28	Peak	Horizontal
2	11160.00	24.62	7.32	31.94	54.00	-22.06	Average	Horizontal
3	16740.00	34.70	12.55	47.25	74.00	-26.75	Peak	Horizontal
4	16740.00	23.96	12.55	36.51	54.00	-17.49	Average	Horizontal
5	11160.00	38.86	7.32	46.18	74.00	-27.82	Peak	Vertical
6	11160.00	24.53	7.32	31.85	54.00	-22.15	Average	Vertical
7	16740.00	35.06	12.55	47.61	74.00	-26.39	Peak	Vertical
8	16740.00	23.87	12.55	36.42	54.00	-17.58	Average	Vertical

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SISO_Chain 0_IEEE 802.11a_Channel 140

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	36.70	7.15	43.85	74.00	-30.15	Peak	Horizontal
2	11400.00	24.78	7.15	31.93	54.00	-22.07	Average	Horizontal
3	17100.00	33.78	12.92	46.70	74.00	-27.30	Peak	Horizontal
4	17100.00	22.37	12.92	35.29	54.00	-18.71	Average	Horizontal
5	11400.00	38.11	7.15	45.26	74.00	-28.74	Peak	Vertical
6	11400.00	24.87	7.15	32.02	54.00	-21.98	Average	Vertical
7	17100.00	36.11	12.92	49.03	74.00	-24.97	Peak	Vertical
8	17100.00	22.26	12.92	35.18	54.00	-18.82	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 149

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	39.02	7.19	46.21	74.00	-27.79	Peak	Horizontal
2	11570.00	25.50	7.19	32.69	54.00	-21.31	Average	Horizontal
3	17355.00	33.96	13.29	47.25	74.00	-26.75	Peak	Horizontal
4	17355.00	22.61	13.29	35.90	54.00	-18.10	Average	Horizontal
5	11570.00	38.47	7.19	45.66	74.00	-28.34	Peak	Vertical
6	11570.00	25.58	7.19	32.77	54.00	-21.23	Average	Vertical
7	17355.00	34.10	13.29	47.39	74.00	-26.61	Peak	Vertical
8	17355.00	22.61	13.29	35.90	54.00	-18.10	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 157

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	38.81	7.19	46.00	74.00	-28.00	Peak	Horizontal
2	11570.00	25.83	7.19	33.02	54.00	-20.98	Average	Horizontal
3	17355.00	33.75	13.29	47.04	74.00	-26.96	Peak	Horizontal
4	17355.00	23.37	13.29	36.66	54.00	-17.34	Average	Horizontal
5	11570.00	38.32	7.19	45.51	74.00	-28.49	Peak	Vertical
6	11570.00	28.22	7.19	35.41	54.00	-18.59	Average	Vertical
7	17355.00	35.33	13.29	48.62	74.00	-25.38	Peak	Vertical
8	17355.00	23.75	13.29	37.04	54.00	-16.96	Average	Vertical

SISO_Chain 0_IEEE 802.11a_Channel 165

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	37.26	7.31	44.57	74.00	-29.43	Peak	Horizontal
2	11650.00	24.85	7.31	32.16	54.00	-21.84	Average	Horizontal
3	17475.00	33.30	13.46	46.76	74.00	-27.24	Peak	Horizontal
4	17475.00	23.10	13.46	36.56	54.00	-17.44	Average	Horizontal
5	11650.00	37.46	7.31	44.77	74.00	-29.23	Peak	Vertical
6	11650.00	24.85	7.31	32.16	54.00	-21.84	Average	Vertical
7	17475.00	34.33	13.46	47.79	74.00	-26.21	Peak	Vertical
8	17475.00	23.00	13.46	36.46	54.00	-17.54	Average	Vertical

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No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10360.00	38.74	6.24	44.98	74.00	-29.02	Peak	Horizontal
2	10360.00	26.46	6.24	32.70	54.00	-21.30	Average	Horizontal
3	15540.00	36.68	11.27	47.95	74.00	-26.05	Peak	Horizontal
4	15540.00	23.74	11.27	35.01	54.00	-18.99	Average	Horizontal
5	10360.00	39.24	6.24	45.48	74.00	-28.52	Peak	Vertical
6	10360.00	26.66	6.24	32.90	54.00	-21.10	Average	Vertical
7	15540.00	35.02	11.27	46.29	74.00	-27.71	Peak	Vertical
8	15540.00	23.74	11.27	35.01	54.00	-18.99	Average	Vertical

IEEE 802.11n-HT20_Channel 44

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10440.00	37.46	6.30	43.76	74.00	-30.24	Peak	Horizontal
2	10440.00	25.95	6.30	32.25	54.00	-21.75	Average	Horizontal
3	15660.00	36.84	11.40	48.24	74.00	-25.76	Peak	Horizontal
4	15660.00	24.09	11.40	35.49	54.00	-18.51	Average	Horizontal
5	10440.00	40.19	6.30	46.49	74.00	-27.51	Peak	Vertical
6	10440.00	26.16	6.30	32.46	54.00	-21.54	Average	Vertical
7	15660.00	34.77	11.40	46.17	74.00	-27.83	Peak	Vertical
8	15660.00	24.09	11.40	35.49	54.00	-18.51	Average	Vertical

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No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10480.00	39.42	6.33	45.75	74.00	-28.25	Peak	Horizontal
2	10480.00	25.21	6.33	31.54	54.00	-22.46	Average	Horizontal
3	15720.00	37.03	11.48	48.51	74.00	-25.49	Peak	Horizontal
4	15720.00	23.57	11.48	35.05	54.00	-18.95	Average	Horizontal
5	10480.00	39.33	6.33	45.66	74.00	-28.34	Peak	Vertical
6	10480.00	25.75	6.33	32.08	54.00	-21.92	Average	Vertical
7	15720.00	35.31	11.48	46.79	74.00	-27.21	Peak	Vertical
8	15720.00	23.66	11.48	35.14	54.00	-18.86	Average	Vertical

IEEE 802.11n-HT20_Channel 52

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10520.00	37.31	6.39	43.70	74.00	-30.30	Peak	Horizontal
2	10520.00	25.15	6.39	31.54	54.00	-22.46	Average	Horizontal
3	15780.00	35.83	11.56	47.39	74.00	-26.61	Peak	Horizontal
4	15780.00	23.49	11.56	35.05	54.00	-18.95	Average	Horizontal
5	10520.00	40.17	6.39	46.56	74.00	-27.44	Peak	Vertical
6	10520.00	25.46	6.39	31.85	54.00	-22.15	Average	Vertical
7	15780.00	36.98	11.56	48.54	74.00	-25.46	Peak	Vertical
8	15780.00	23.29	11.56	34.85	54.00	-19.15	Average	Vertical

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No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10600.00	37.82	6.56	44.38	74.00	-29.62	Peak	Horizontal
2	10600.00	25.70	6.56	32.26	54.00	-21.74	Average	Horizontal
3	15900.00	35.33	11.71	47.04	74.00	-26.96	Peak	Horizontal
4	15900.00	24.12	11.71	35.83	54.00	-18.17	Average	Horizontal
5	10600.00	36.47	6.56	43.03	74.00	-30.97	Peak	Vertical
6	10600.00	25.55	6.56	32.11	54.00	-21.89	Average	Vertical
7	15900.00	35.06	11.71	46.77	74.00	-27.23	Peak	Vertical
8	15900.00	24.21	11.71	35.92	54.00	-18.08	Average	Vertical

IEEE 802.11n-HT20_Channel 64

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10640.00	39.07	6.64	45.71	74.00	-28.29	Peak	Horizontal
2	10640.00	24.92	6.64	31.56	54.00	-22.44	Average	Horizontal
3	15960.00	35.76	11.77	47.53	74.00	-26.47	Peak	Horizontal
4	15960.00	23.50	11.77	35.27	54.00	-18.73	Average	Horizontal
5	10640.00	37.63	6.64	44.27	74.00	-29.73	Peak	Vertical
6	10640.00	25.16	6.64	31.80	54.00	-22.20	Average	Vertical
7	15960.00	37.40	11.77	49.17	74.00	-24.83	Peak	Vertical
8	15960.00	23.50	11.77	35.27	54.00	-18.73	Average	Vertical

IEEE 802.11n-HT20_Channel 100

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11000.00	37.97	7.42	45.39	74.00	-28.61	Peak	Horizontal
2	11000.00	25.72	7.42	33.14	54.00	-20.86	Average	Horizontal
3	16500.00	35.02	12.35	47.37	74.00	-26.63	Peak	Horizontal
4	16500.00	23.13	12.35	35.48	54.00	-18.52	Average	Horizontal
5	11000.00	39.41	7.42	46.83	74.00	-27.17	Peak	Vertical
6	11000.00	26.16	7.42	33.58	54.00	-20.42	Average	Vertical
7	16500.00	34.81	12.35	47.16	74.00	-26.84	Peak	Vertical
8	16500.00	23.13	12.35	35.48	54.00	-18.52	Average	Vertical

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No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11160.00	37.57	7.32	44.89	74.00	-29.11	Peak	Horizontal
2	11160.00	23.82	7.32	31.14	54.00	-22.86	Average	Horizontal
3	16740.00	35.63	12.55	48.18	74.00	-25.82	Peak	Horizontal
4	16740.00	23.77	12.55	36.32	54.00	-17.68	Average	Horizontal
5	11160.00	40.38	7.32	47.70	74.00	-26.30	Peak	Vertical
6	11160.00	24.53	7.32	31.85	54.00	-22.15	Average	Vertical
7	16740.00	35.77	12.55	48.32	74.00	-25.68	Peak	Vertical
8	16740.00	23.77	12.55	36.32	54.00	-17.68	Average	Vertical

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No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11400.00	36.33	7.15	43.48	74.00	-30.52	Peak	Horizontal
2	11400.00	23.91	7.15	31.06	54.00	-22.94	Average	Horizontal
3	17100.00	35.75	12.92	48.67	74.00	-25.33	Peak	Horizontal
4	17100.00	22.15	12.92	35.07	54.00	-18.93	Average	Horizontal
5	11400.00	38.97	7.15	46.12	74.00	-27.88	Peak	Vertical
6	11400.00	24.95	7.15	32.10	54.00	-21.90	Average	Vertical
7	17100.00	36.14	12.92	49.06	74.00	-24.94	Peak	Vertical
8	17100.00	22.15	12.92	35.07	54.00	-18.93	Average	Vertical

IEEE 802.11n-HT20_Channel 149

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11490.00	39.09	7.09	46.18	74.00	-27.82	Peak	Horizontal
2	11490.00	25.21	7.09	32.30	54.00	-21.70	Average	Horizontal
3	17235.00	34.10	13.12	47.22	74.00	-26.78	Peak	Horizontal
4	17235.00	22.78	13.12	35.90	54.00	-18.10	Average	Horizontal
5	11490.00	38.02	7.09	45.11	74.00	-28.89	Peak	Vertical
6	11490.00	25.45	7.09	32.54	54.00	-21.46	Average	Vertical
7	17235.00	34.74	13.12	47.86	74.00	-26.14	Peak	Vertical
8	17235.00	22.56	13.12	35.68	54.00	-18.32	Average	Vertical

IEEE 802.11n-HT20_Channel 157

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11570.00	36.13	7.19	43.32	74.00	-30.68	Peak	Horizontal
2	11570.00	24.47	7.19	31.66	54.00	-22.34	Average	Horizontal
3	17355.00	34.69	13.29	47.98	74.00	-26.02	Peak	Horizontal
4	17355.00	22.96	13.29	36.25	54.00	-17.75	Average	Horizontal
5	11570.00	38.74	7.19	45.93	74.00	-28.07	Peak	Vertical
6	11570.00	25.06	7.19	32.25	54.00	-21.75	Average	Vertical
7	17355.00	35.33	13.29	48.62	74.00	-25.38	Peak	Vertical
8	17355.00	23.06	13.29	36.35	54.00	-17.65	Average	Vertical

IEEE 802.11n-HT20_Channel 165

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11650.00	39.40	7.31	46.71	74.00	-27.29	Peak	Horizontal
2	11650.00	26.11	7.31	33.42	54.00	-20.58	Average	Horizontal
3	17475.00	36.55	13.46	50.01	74.00	-23.99	Peak	Horizontal
4	17475.00	22.29	13.46	35.75	54.00	-18.25	Average	Horizontal
5	11650.00	39.59	7.31	46.90	74.00	-27.10	Peak	Vertical
6	11650.00	25.89	7.31	33.20	54.00	-20.80	Average	Vertical
7	17475.00	36.39	13.46	49.85	74.00	-24.15	Peak	Vertical
8	17475.00	22.40	13.46	35.86	54.00	-18.14	Average	Vertical

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IEEE 802.11n-HT40_Channel 38

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10380.00	39.33	6.25	45.58	74.00	-28.42	Peak	Horizontal
2	10380.00	26.59	6.25	32.84	54.00	-21.16	Average	Horizontal
3	15570.00	36.60	11.29	47.89	74.00	-26.11	Peak	Horizontal
4	15570.00	23.72	11.29	35.01	54.00	-18.99	Average	Horizontal
5	10380.00	37.96	6.25	44.21	74.00	-29.79	Peak	Vertical
6	10380.00	26.72	6.25	32.97	54.00	-21.03	Average	Vertical
7	15570.00	35.05	11.29	46.34	74.00	-27.66	Peak	Vertical
8	15570.00	23.82	11.29	35.11	54.00	-18.89	Average	Vertical

IEEE 802.11n-HT40_Channel 46

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	38.53	6.32	44.85	74.00	-29.15	Peak	Horizontal
2	10460.00	26.07	6.32	32.39	54.00	-21.61	Average	Horizontal
3	15690.00	37.18	11.45	48.63	74.00	-25.37	Peak	Horizontal
4	15690.00	24.13	11.45	35.58	54.00	-18.42	Average	Horizontal
5	10460.00	38.48	6.32	44.80	74.00	-29.20	Peak	Vertical
6	10460.00	26.29	6.32	32.61	54.00	-21.39	Average	Vertical
7	15690.00	35.57	11.45	47.02	74.00	-26.98	Peak	Vertical
8	15690.00	24.04	11.45	35.49	54.00	-18.51	Average	Vertical

IEEE 802.11n-HT40_Channel 54

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10540.00	38.94	6.42	45.36	74.00	-28.64	Peak	Horizontal
2	10540.00	26.30	6.42	32.72	54.00	-21.28	Average	Horizontal
3	15810.00	34.75	11.59	46.34	74.00	-27.66	Peak	Horizontal
4	15810.00	23.57	11.59	35.16	54.00	-18.84	Average	Horizontal
5	10540.00	38.44	6.42	44.86	74.00	-29.14	Peak	Vertical
6	10540.00	26.78	6.42	33.20	54.00	-20.80	Average	Vertical
7	15810.00	35.01	11.59	46.60	74.00	-27.40	Peak	Vertical
8	15810.00	23.47	11.59	35.06	54.00	-18.94	Average	Vertical

IEEE 802.11n-HT40_Channel 62

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10620.00	39.83	6.61	46.44	74.00	-27.56	Peak	Horizontal
2	10620.00	25.11	6.61	31.72	54.00	-22.28	Average	Horizontal
3	15930.00	35.61	11.75	47.36	74.00	-26.64	Peak	Horizontal
4	15930.00	23.71	11.75	35.46	54.00	-18.54	Average	Horizontal
5	10620.00	41.25	6.61	47.86	74.00	-26.14	Peak	Vertical
6	10620.00	25.58	6.61	32.19	54.00	-21.81	Average	Vertical
7	15930.00	35.24	11.75	46.99	74.00	-27.01	Peak	Vertical
8	15930.00	23.71	11.75	35.46	54.00	-18.54	Average	Vertical

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IEEE 802.11n-HT40_Channel 102

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11020.00	39.19	7.41	46.60	74.00	-27.40	Peak	Horizontal
2	11020.00	26.03	7.41	33.44	54.00	-20.56	Average	Horizontal
3	16530.00	34.86	12.38	47.24	74.00	-26.76	Peak	Horizontal
4	16530.00	23.30	12.38	35.68	54.00	-18.32	Average	Horizontal
5	11020.00	38.78	7.41	46.19	74.00	-27.81	Peak	Vertical
6	11020.00	26.45	7.41	33.86	54.00	-20.14	Average	Vertical
7	16530.00	34.73	12.38	47.11	74.00	-26.89	Peak	Vertical
8	16530.00	23.20	12.38	35.58	54.00	-18.42	Average	Vertical

IEEE 802.11n-HT40_Channel 110

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11100.00	38.47	7.35	45.82	74.00	-28.18	Peak	Horizontal
2	11100.00	24.24	7.35	31.59	54.00	-22.41	Average	Horizontal
3	16650.00	35.53	12.48	48.01	74.00	-25.99	Peak	Horizontal
4	16650.00	23.94	12.48	36.42	54.00	-17.58	Average	Horizontal
5	11100.00	38.90	7.35	46.25	74.00	-27.75	Peak	Vertical
6	11100.00	24.76	7.35	32.11	54.00	-21.89	Average	Vertical
7	16650.00	35.86	12.48	48.34	74.00	-25.66	Peak	Vertical
8	16650.00	24.03	12.48	36.51	54.00	-17.49	Average	Vertical

IEEE 802.11n-HT40_Channel 134

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11340.00	39.62	7.19	46.81	74.00	-27.19	Peak	Horizontal
2	11340.00	25.81	7.19	33.00	54.00	-21.00	Average	Horizontal
3	17010.00	35.88	12.80	48.68	74.00	-25.32	Peak	Horizontal
4	17010.00	22.57	12.80	35.37	54.00	-18.63	Average	Horizontal
5	11340.00	37.41	7.19	44.60	74.00	-29.40	Peak	Vertical
6	11340.00	25.96	7.19	33.15	54.00	-20.85	Average	Vertical
7	17010.00	36.51	12.80	49.31	74.00	-24.69	Peak	Vertical
8	17010.00	22.47	12.80	35.27	54.00	-18.73	Average	Vertical

IEEE 802.11n-HT40_Channel 151

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11510.00	36.60	7.10	43.70	74.00	-30.30	Peak	Horizontal
2	11510.00	25.82	7.10	32.92	54.00	-21.08	Average	Horizontal
3	17265.00	36.19	13.16	49.35	74.00	-24.65	Peak	Horizontal
4	17265.00	22.74	13.16	35.90	54.00	-18.10	Average	Horizontal
5	11510.00	37.26	7.10	44.36	74.00	-29.64	Peak	Vertical
6	11510.00	25.74	7.10	32.84	54.00	-21.16	Average	Vertical
7	17265.00	36.03	13.16	49.19	74.00	-24.81	Peak	Vertical
8	17265.00	22.84	13.16	36.00	54.00	-18.00	Average	Vertical

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IEEE 802.11n-HT40_Channel 159

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11590.00	37.94	7.22	45.16	74.00	-28.84	Peak	Horizontal
2	11590.00	25.11	7.22	32.33	54.00	-21.67	Average	Horizontal
3	17385.00	35.14	13.33	48.47	74.00	-25.53	Peak	Horizontal
4	17385.00	23.02	13.33	36.35	54.00	-17.65	Average	Horizontal
5	11590.00	37.92	7.22	45.14	74.00	-28.86	Peak	Vertical
6	11590.00	26.03	7.22	33.25	54.00	-20.75	Average	Vertical
7	17385.00	35.98	13.33	49.31	74.00	-24.69	Peak	Vertical
8	17385.00	23.33	13.33	36.66	54.00	-17.34	Average	Vertical

IEEE 802.11ac-VHT80_Channel 42

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10460.00	38.31	6.32	44.63	74.00	-29.37	Peak	Horizontal
2	10460.00	27.35	6.32	33.67	54.00	-20.33	Average	Horizontal
3	15690.00	35.74	11.45	47.19	74.00	-26.81	Peak	Horizontal
4	15690.00	24.13	11.45	35.58	54.00	-18.42	Average	Horizontal
5	10460.00	37.67	6.32	43.99	74.00	-30.01	Peak	Vertical
6	10460.00	26.21	6.32	32.53	54.00	-21.47	Average	Vertical
7	15690.00	35.20	11.45	46.65	74.00	-27.35	Peak	Vertical
8	15690.00	24.04	11.45	35.49	54.00	-18.51	Average	Vertical

IEEE 802.11ac-VHT80_Channel 58

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	10580.00	38.43	6.51	44.94	74.00	-29.06	Peak	Horizontal
2	10580.00	26.69	6.51	33.20	54.00	-20.80	Average	Horizontal
3	15870.00	37.03	11.67	48.70	74.00	-25.30	Peak	Horizontal
4	15870.00	23.49	11.67	35.16	54.00	-18.84	Average	Horizontal
5	10580.00	40.00	6.51	46.51	74.00	-27.49	Peak	Vertical
6	10580.00	26.62	6.51	33.13	54.00	-20.87	Average	Vertical
7	15870.00	34.53	11.67	46.20	74.00	-27.80	Peak	Vertical
8	15870.00	23.49	11.67	35.16	54.00	-18.84	Average	Vertical

IEEE 802.11ac-VHT80_Channel 106

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11060.00	39.32	7.38	46.70	74.00	-27.30	Peak	Horizontal
2	11060.00	25.79	7.38	33.17	54.00	-20.83	Average	Horizontal
3	16590.00	35.71	12.43	48.14	74.00	-25.86	Peak	Horizontal
4	16590.00	23.53	12.43	35.96	54.00	-18.04	Average	Horizontal
5	11060.00	39.36	7.38	46.74	74.00	-27.26	Peak	Vertical
6	11060.00	25.72	7.38	33.10	54.00	-20.90	Average	Vertical
7	16590.00	37.10	12.43	49.53	74.00	-24.47	Peak	Vertical
8	16590.00	23.43	12.43	35.86	54.00	-18.14	Average	Vertical

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IEEE 802.11ac-VHT80_Channel 155

No.	Frequency (MHz)	Reading (dBμV/m)	Correction factor (dB)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Antenna Polaxis
1	11550.00	38.11	7.16	45.27	74.00	-28.73	Peak	Horizontal
2	11550.00	25.76	7.16	32.92	54.00	-21.08	Average	Horizontal
3	17325.00	35.19	13.24	48.43	74.00	-25.57	Peak	Horizontal
4	17325.00	22.87	13.24	36.11	54.00	-17.89	Average	Horizontal
5	11550.00	37.52	7.16	44.68	74.00	-29.32	Peak	Vertical
6	11550.00	25.76	7.16	32.92	54.00	-21.08	Average	Vertical
7	17325.00	36.15	13.24	49.39	74.00	-24.61	Peak	Vertical
8	17325.00	22.66	13.24	35.90	54.00	-18.10	Average	Vertical

Remark:

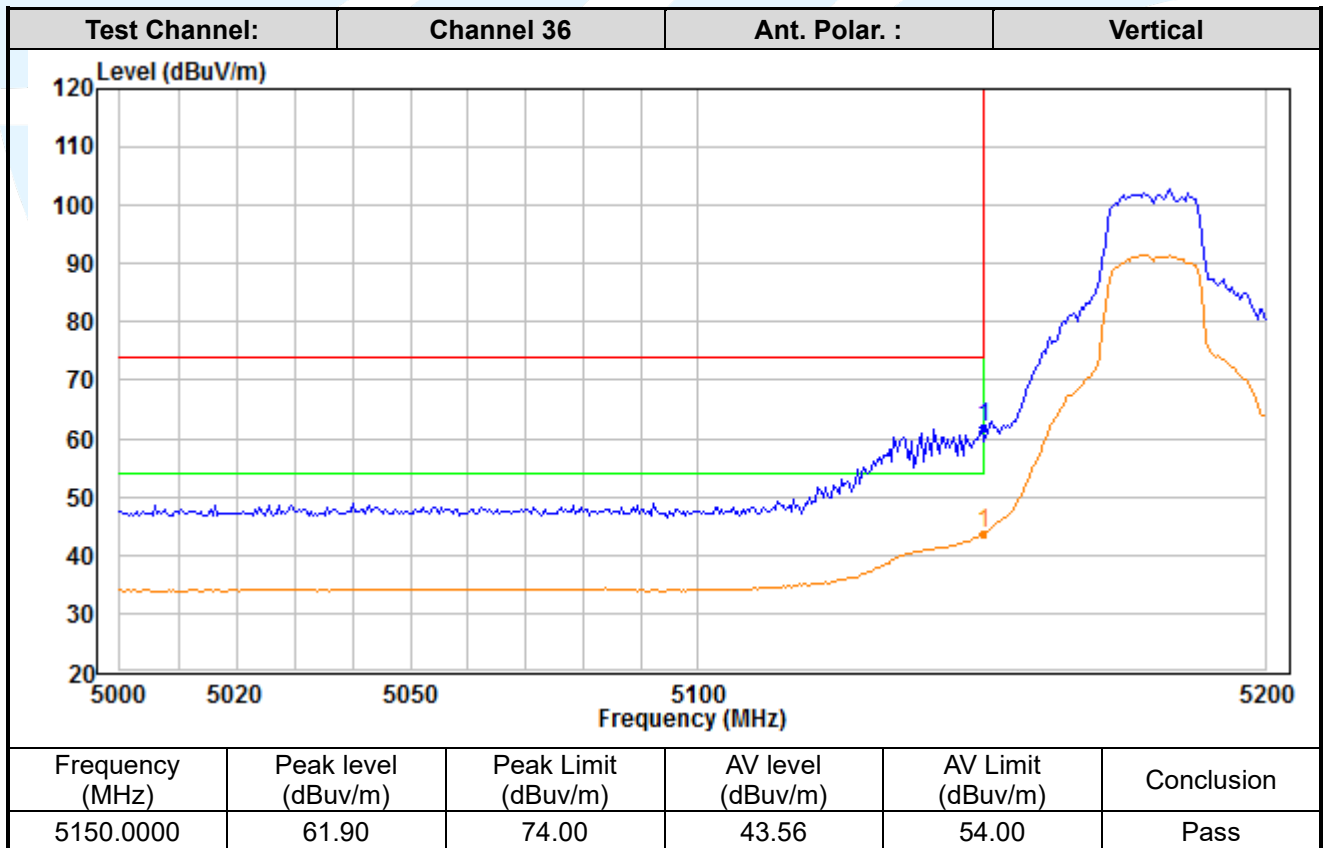
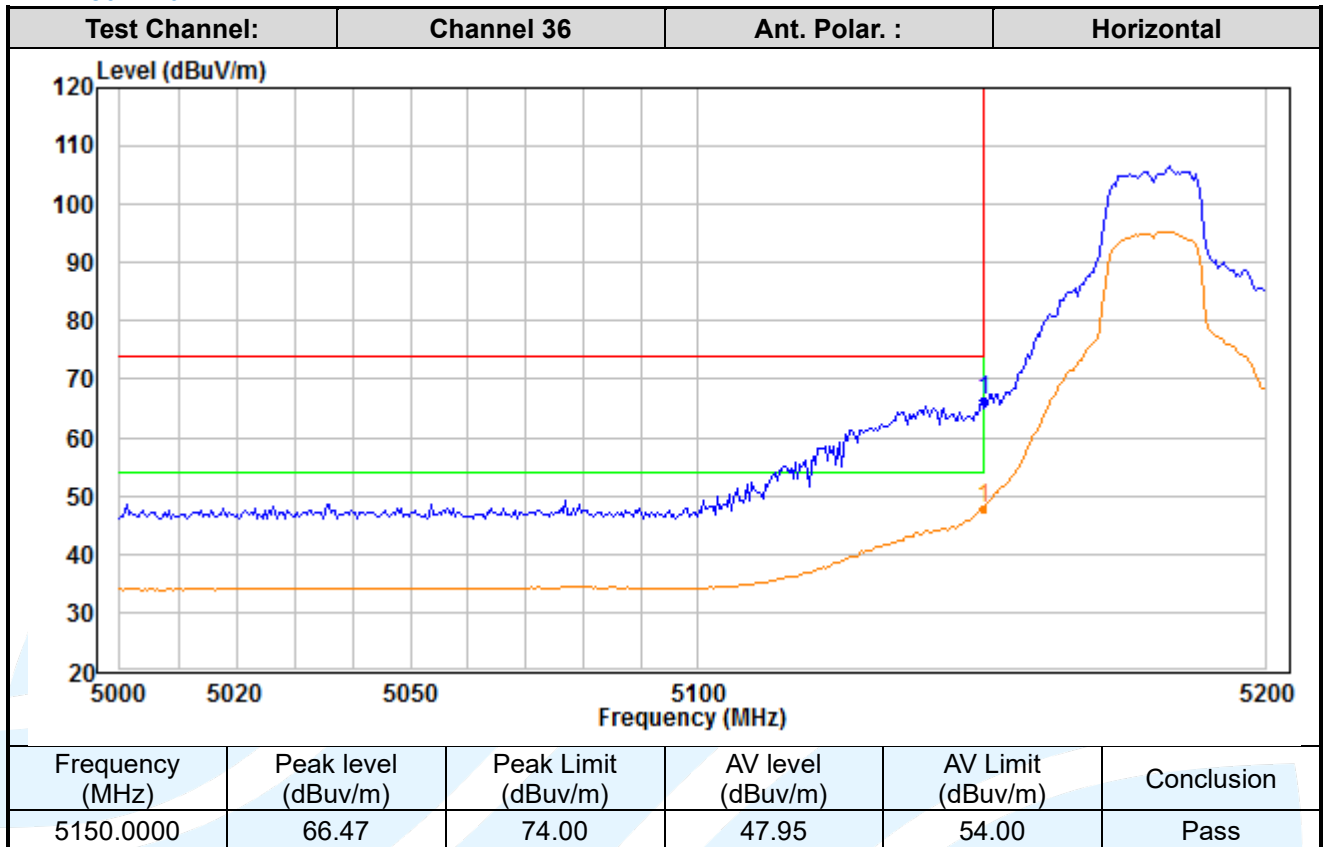
1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit

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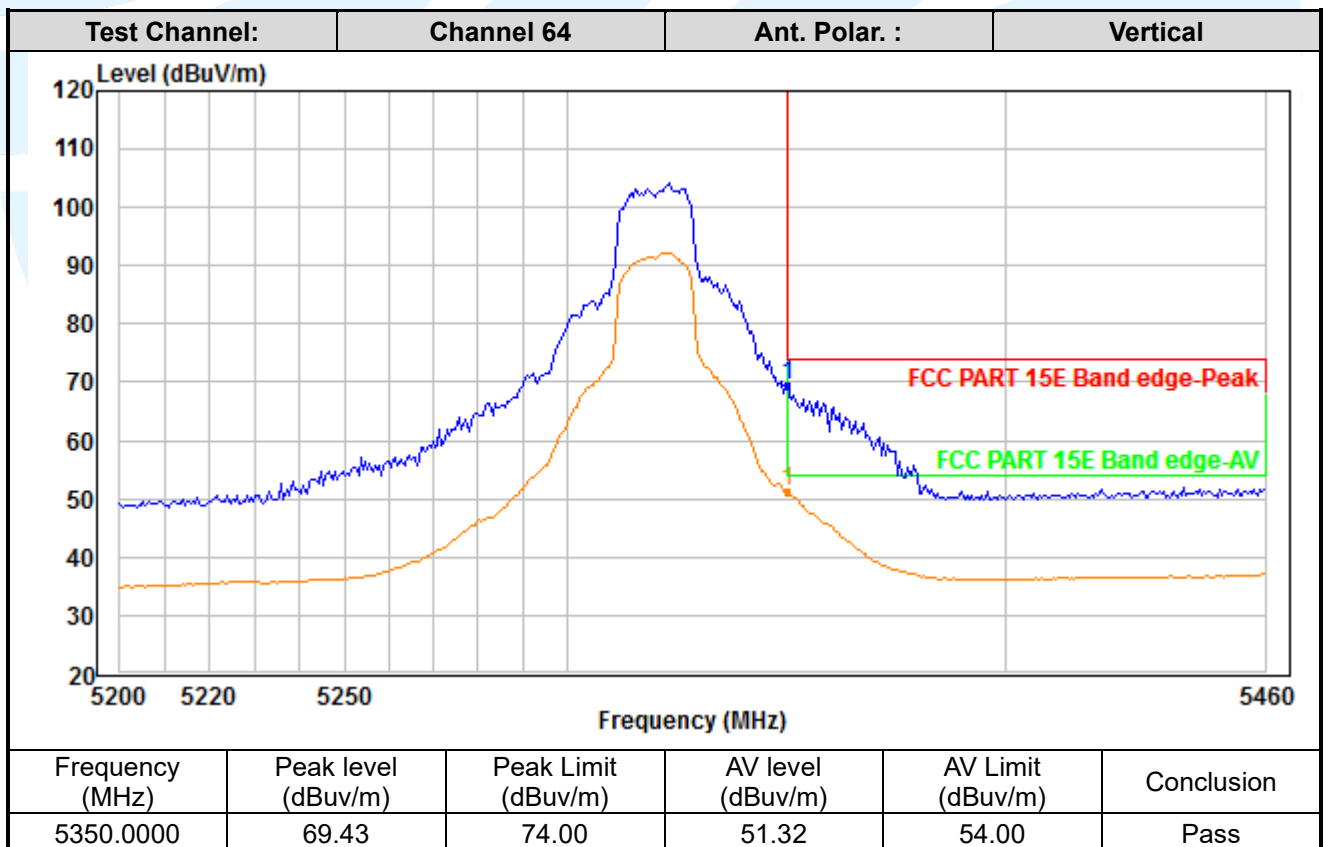
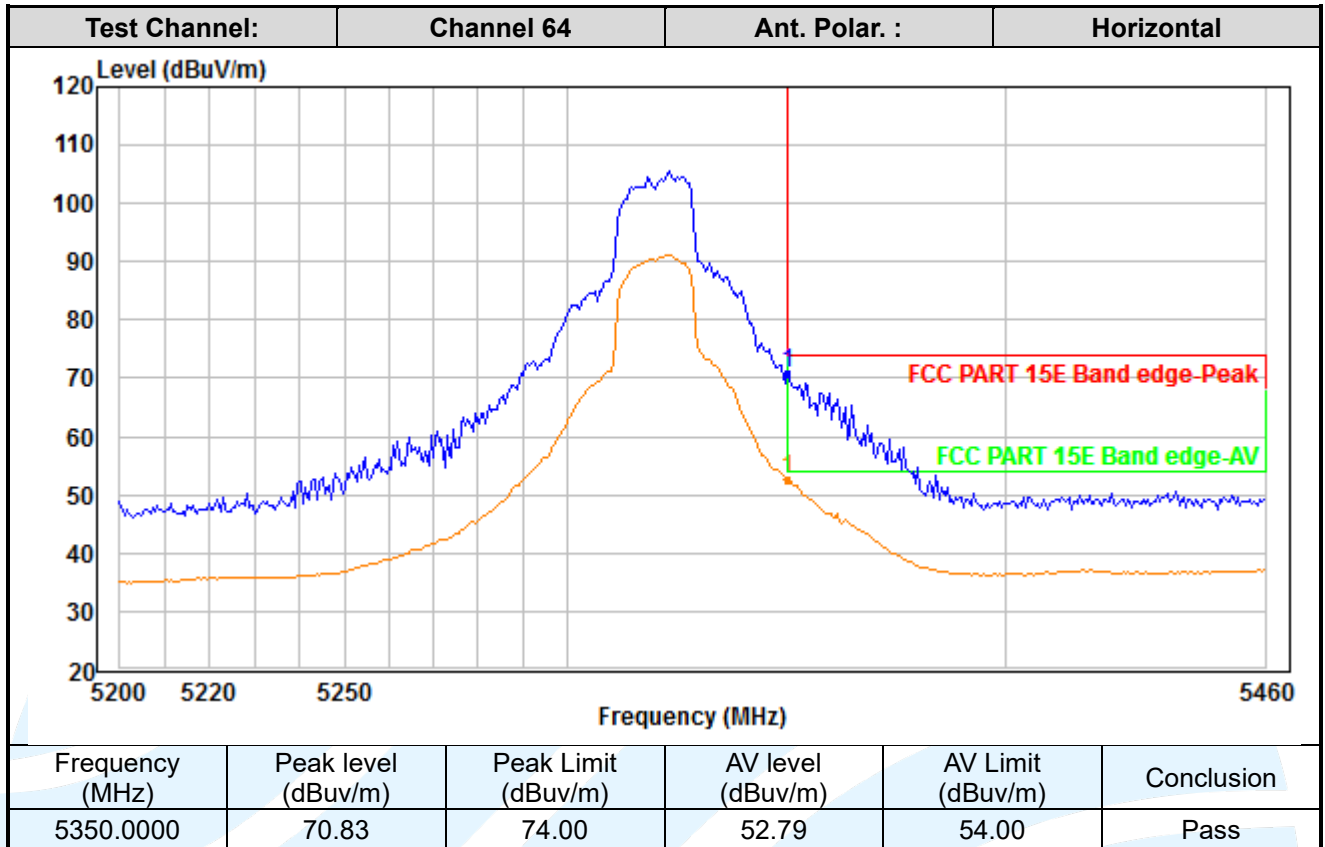
Band Edge Measurements (Radiated)

IEEE 802.11a



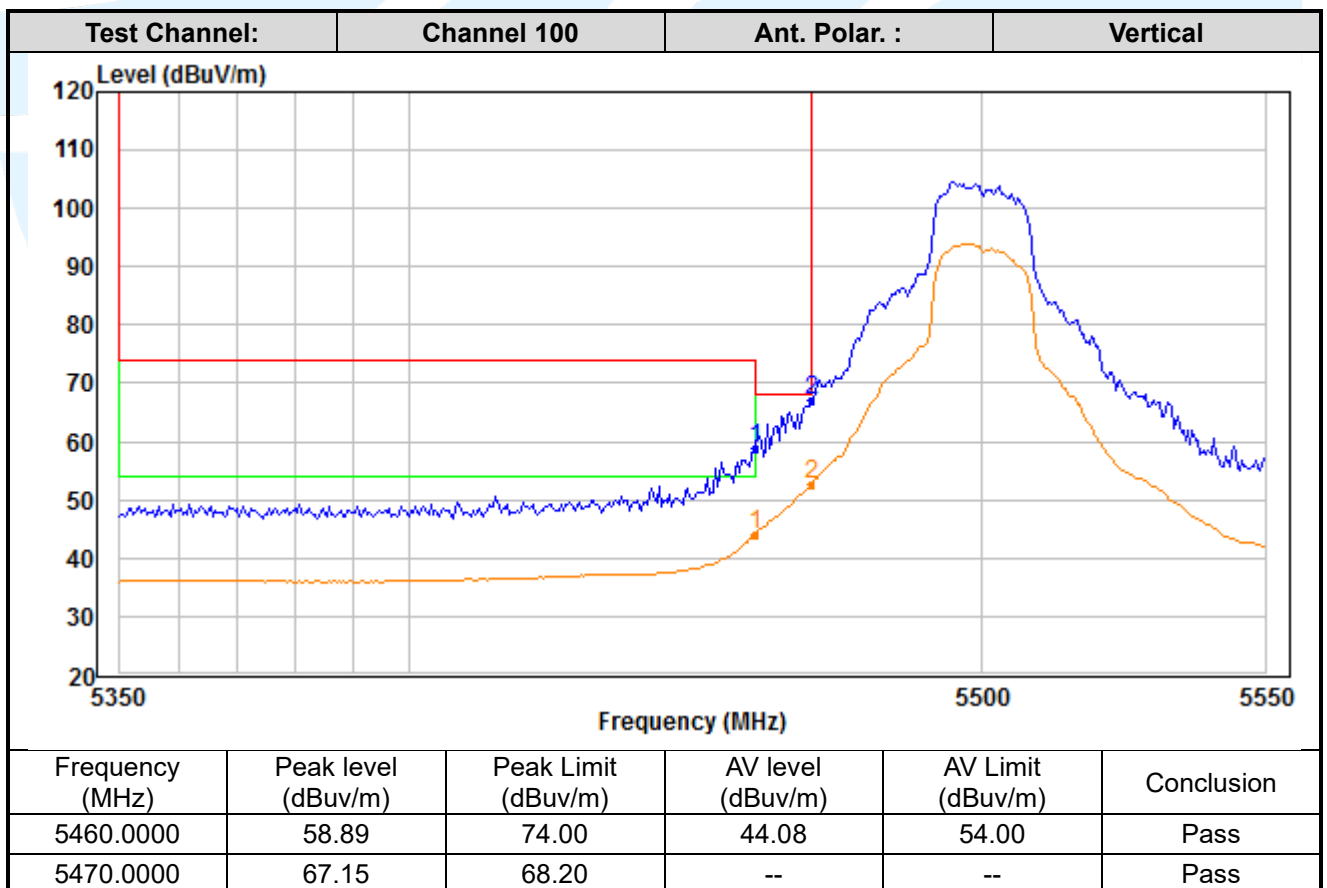
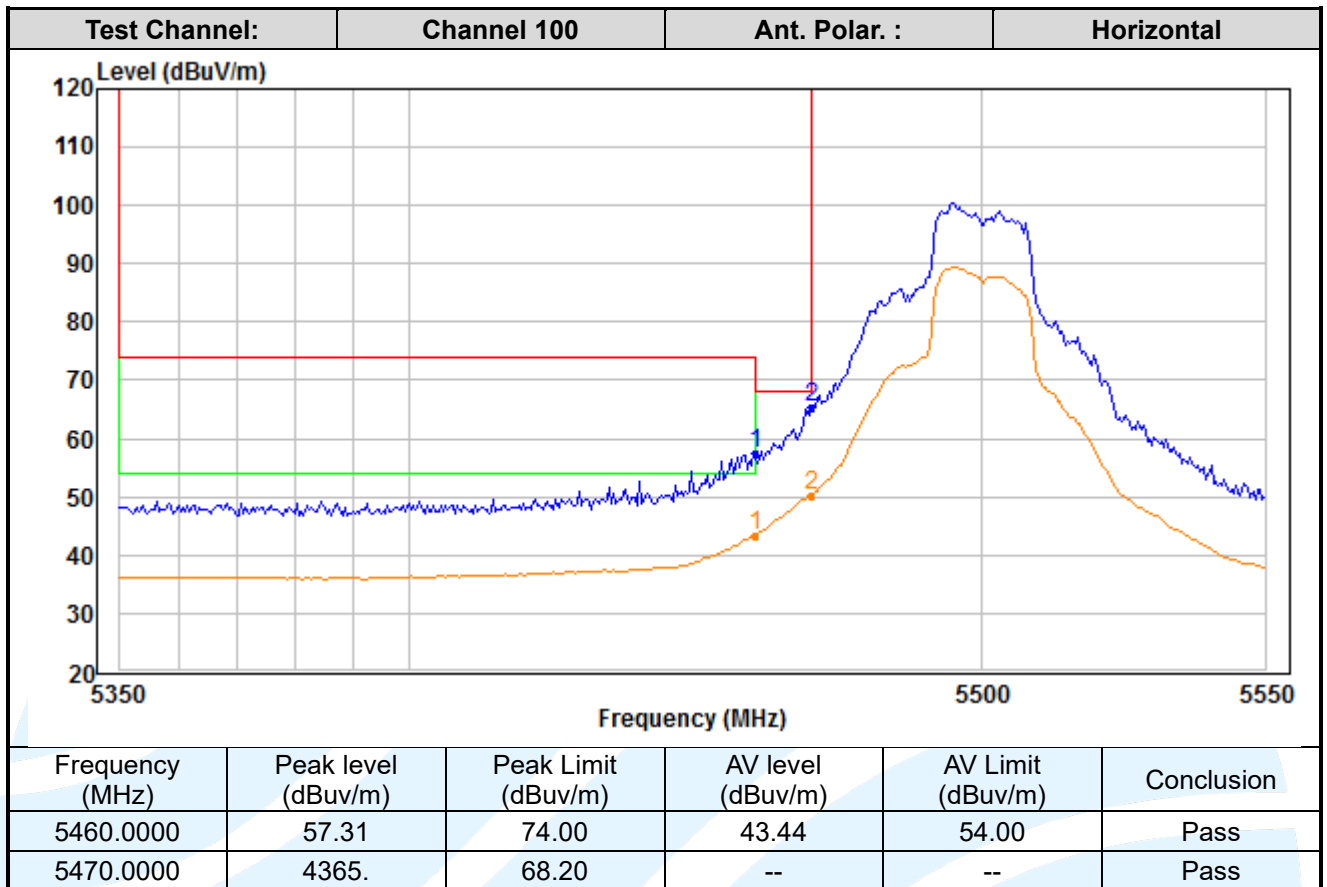
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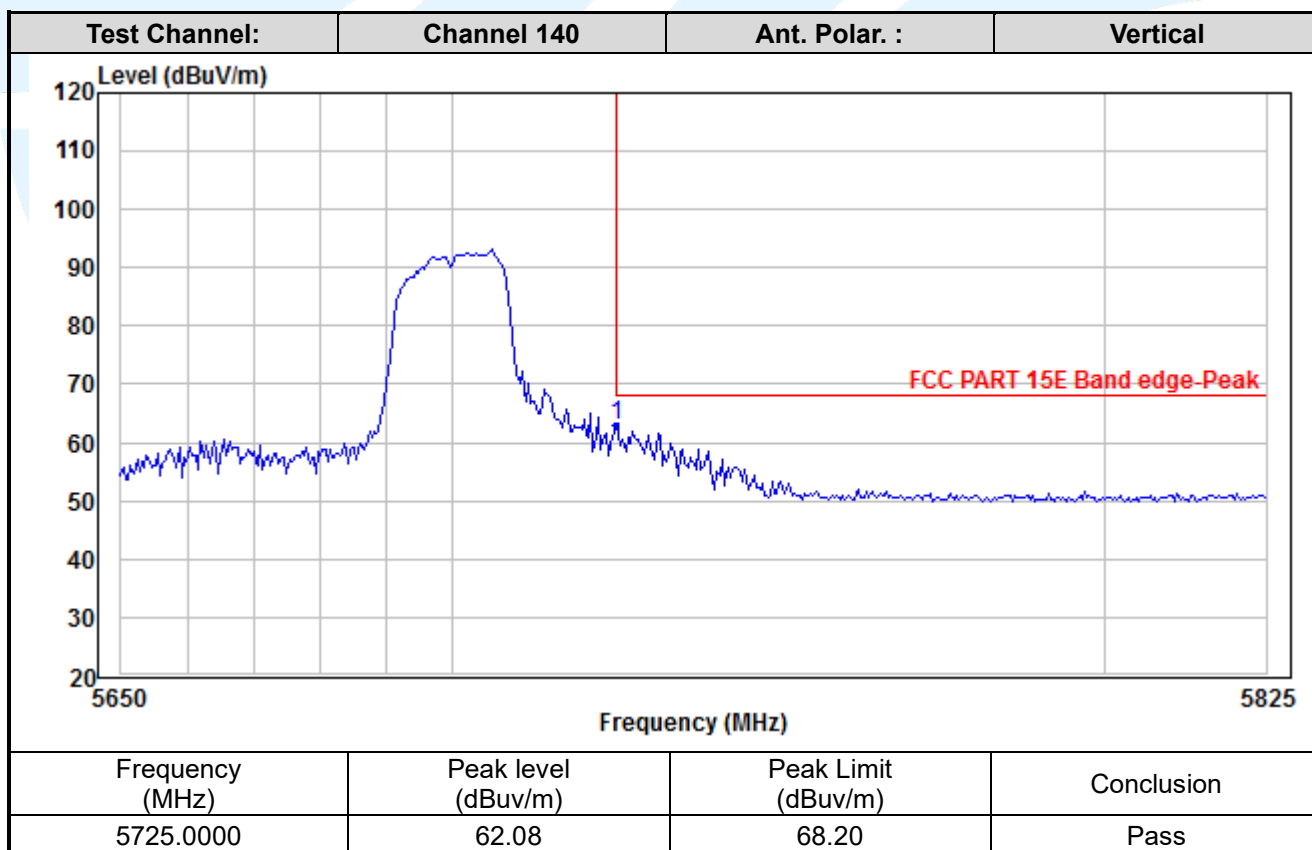
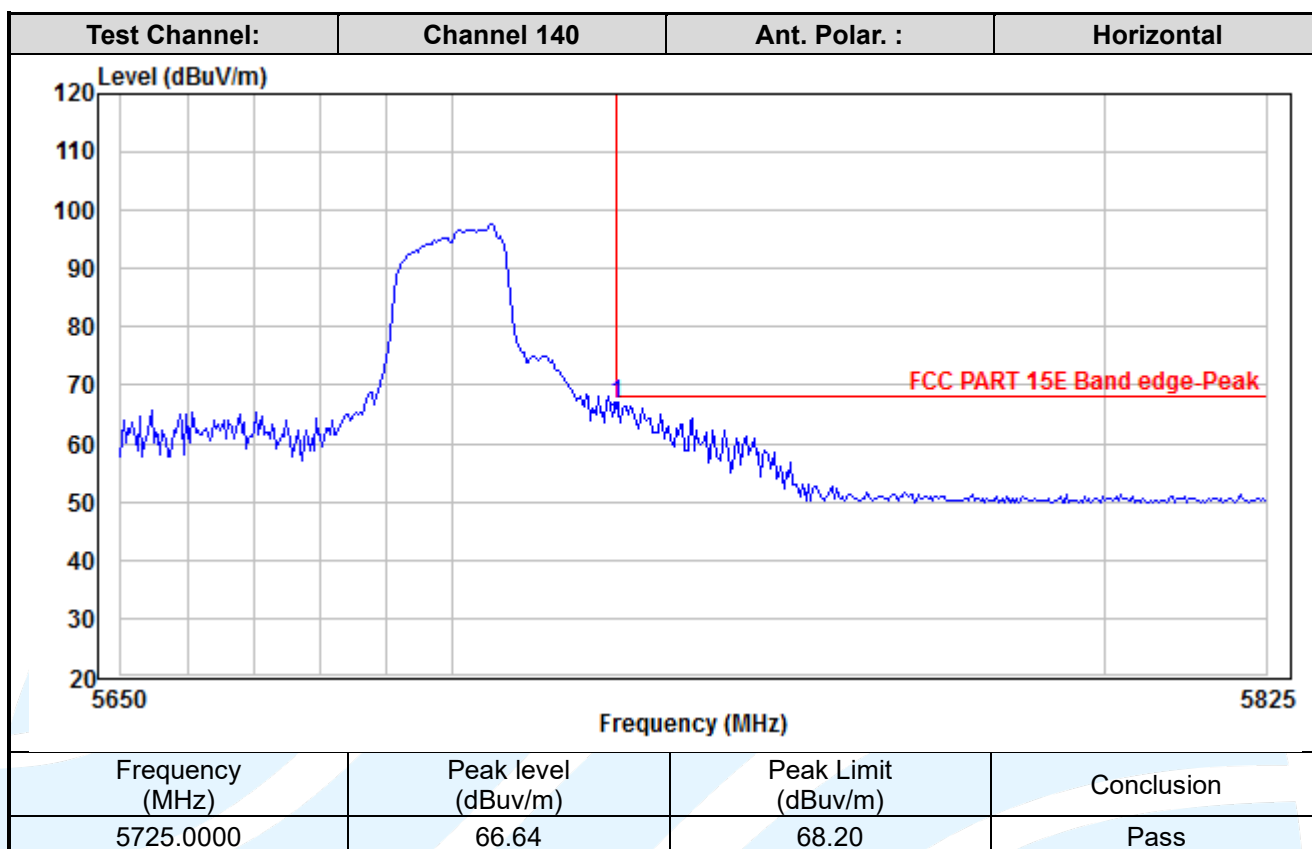
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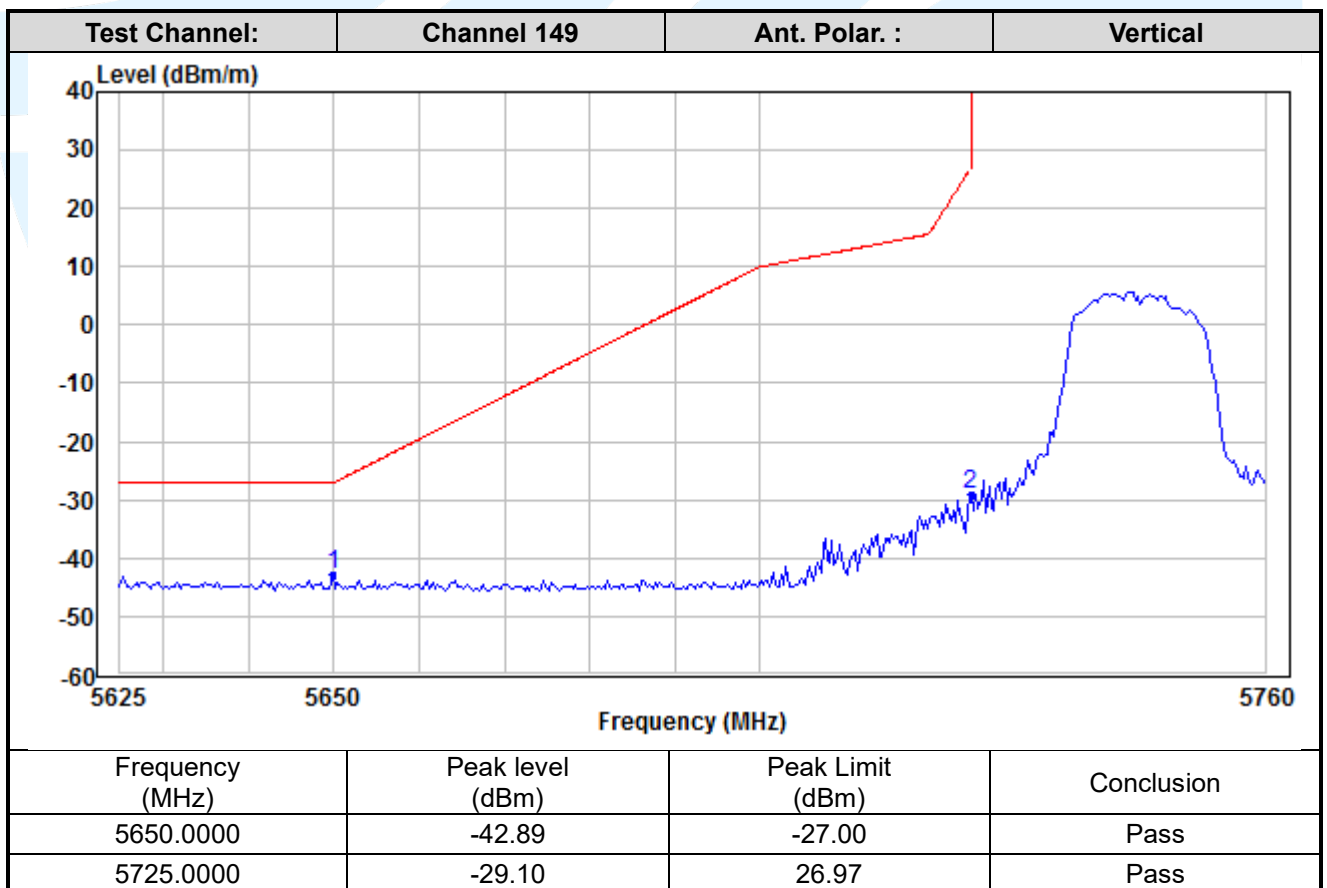
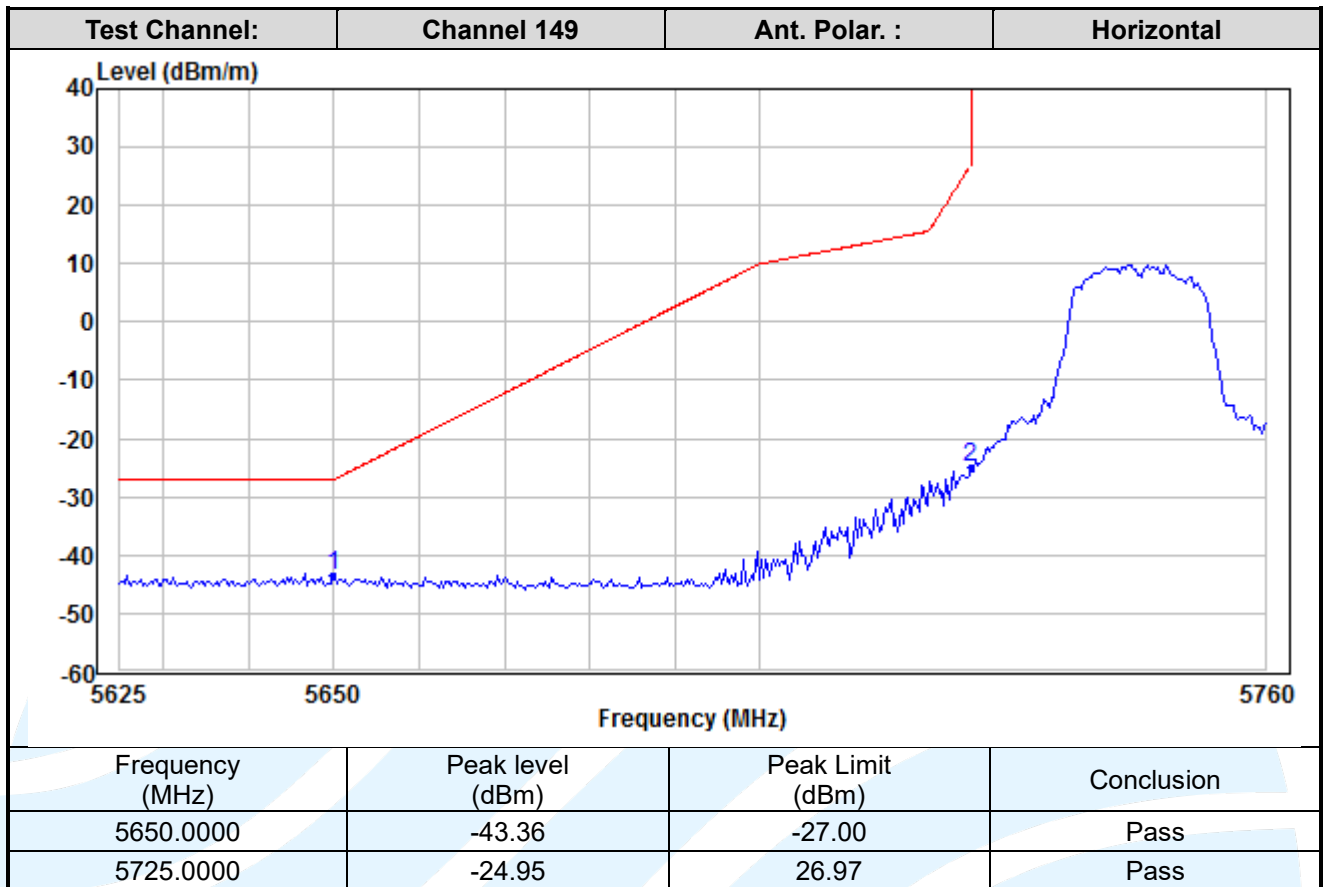
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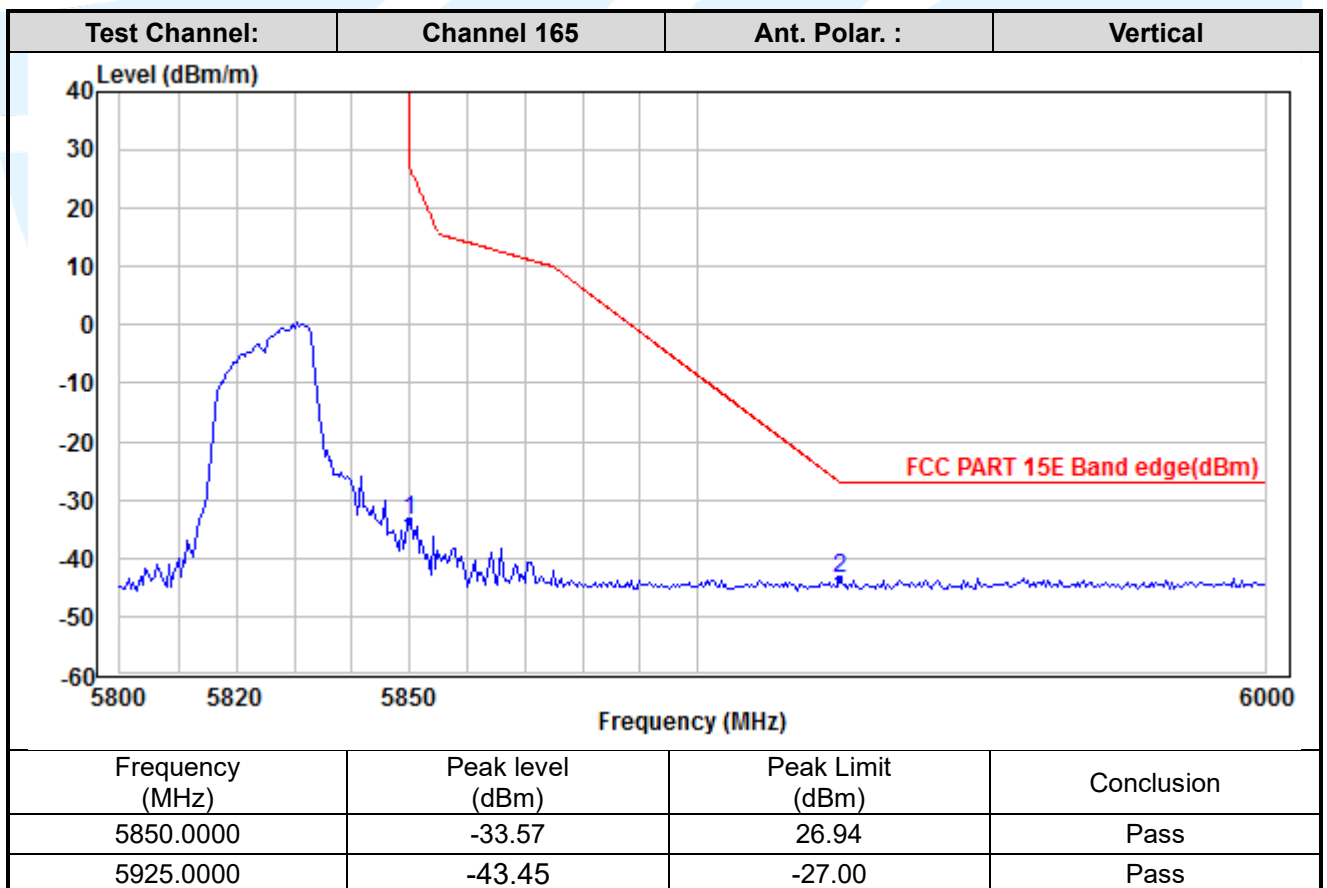
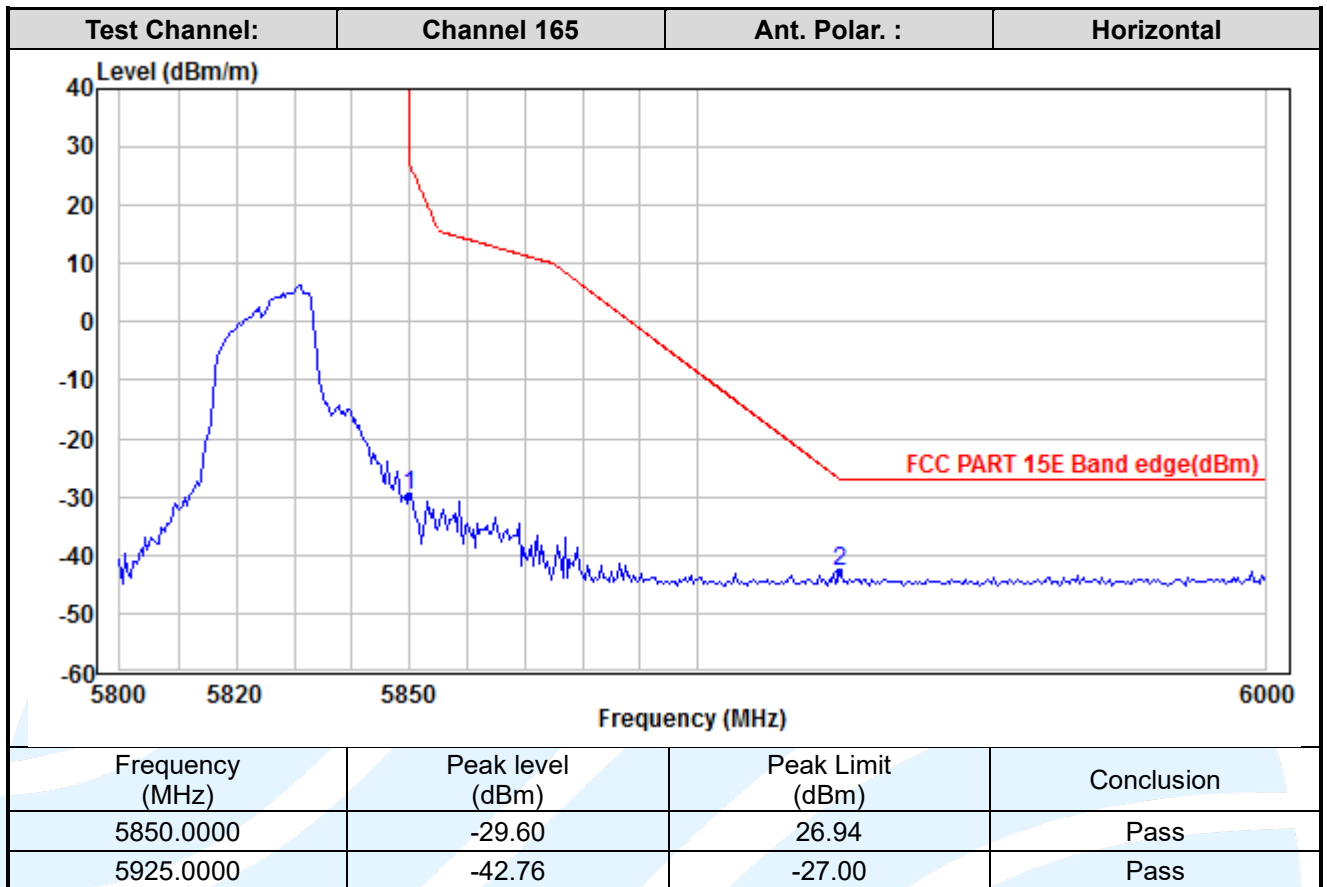
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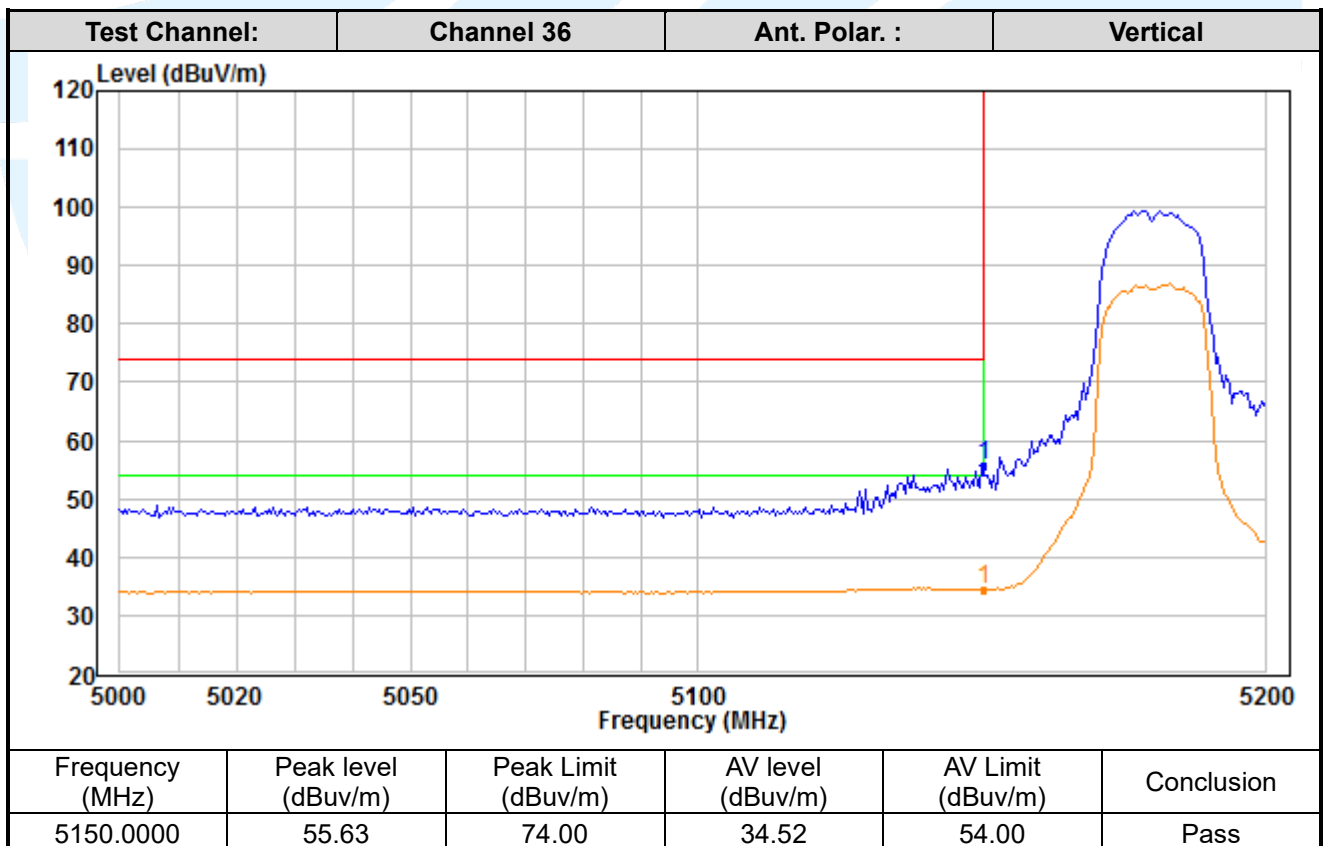
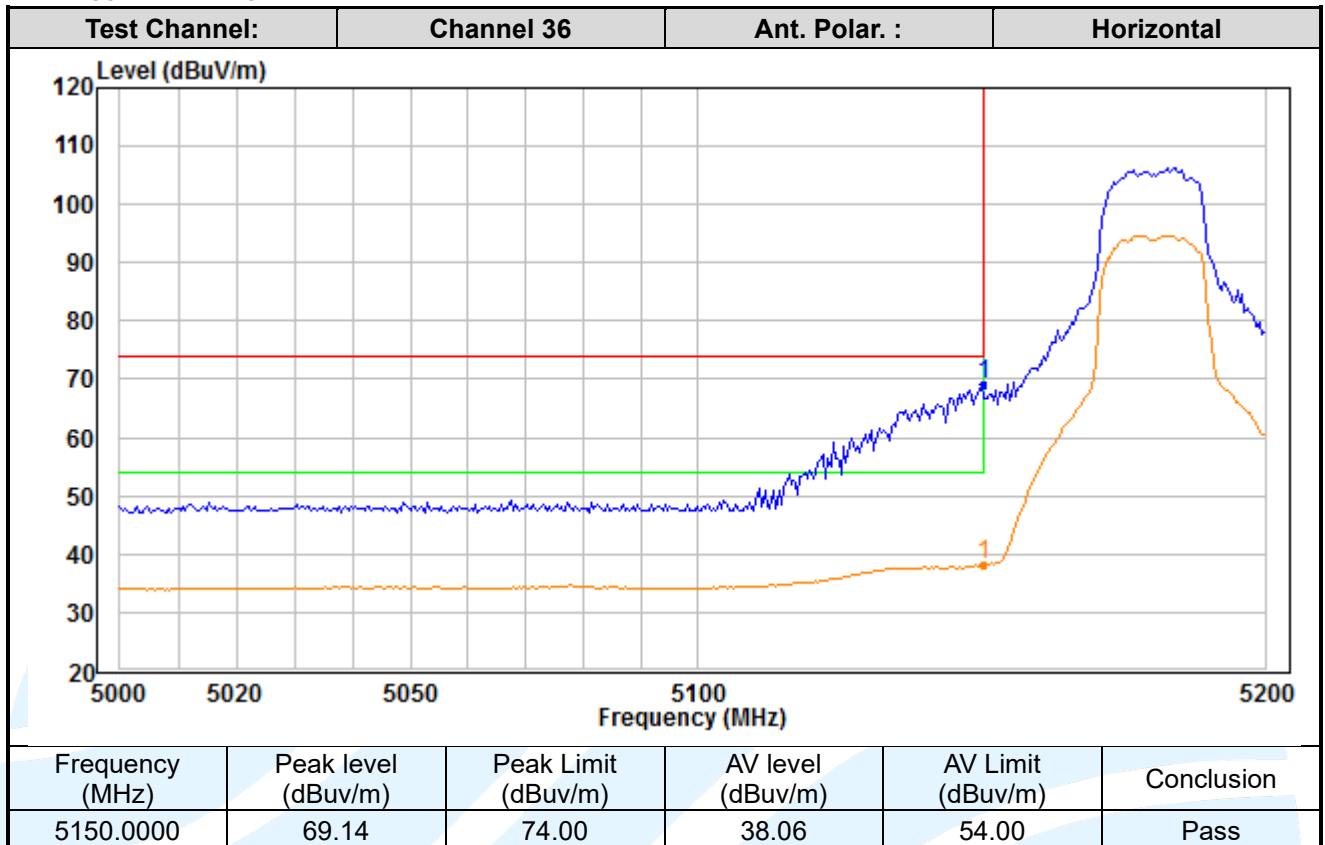
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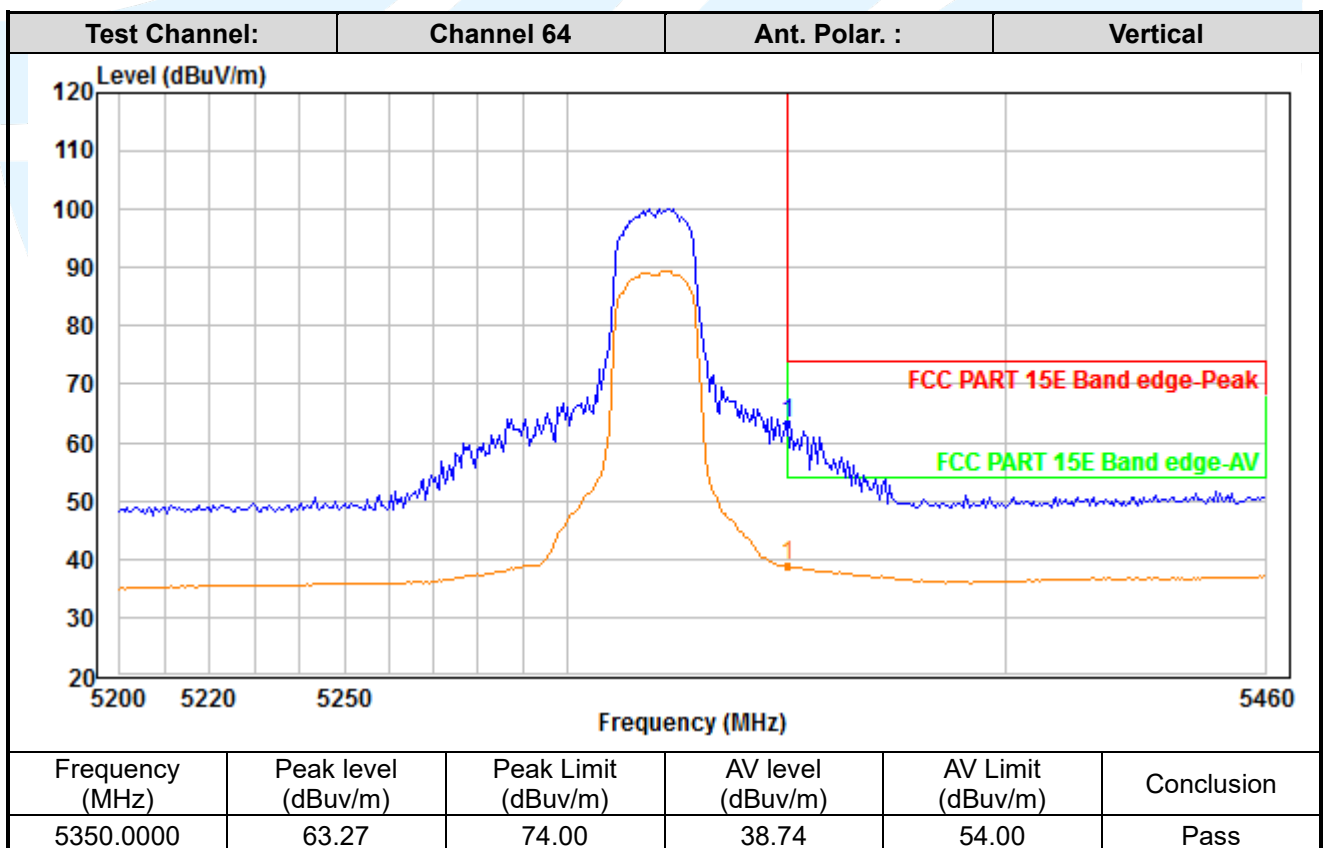
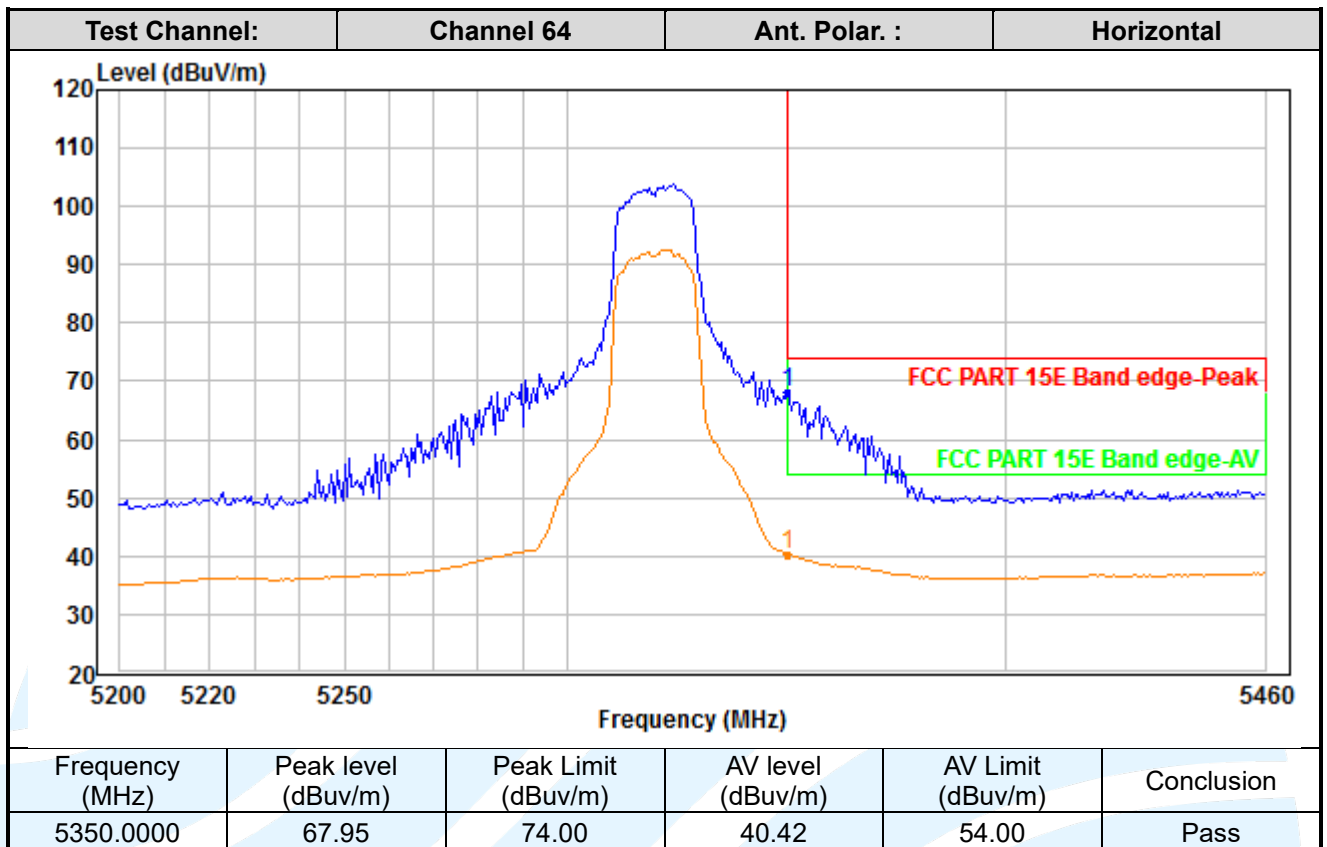
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IEEE 802.11n-HT20:



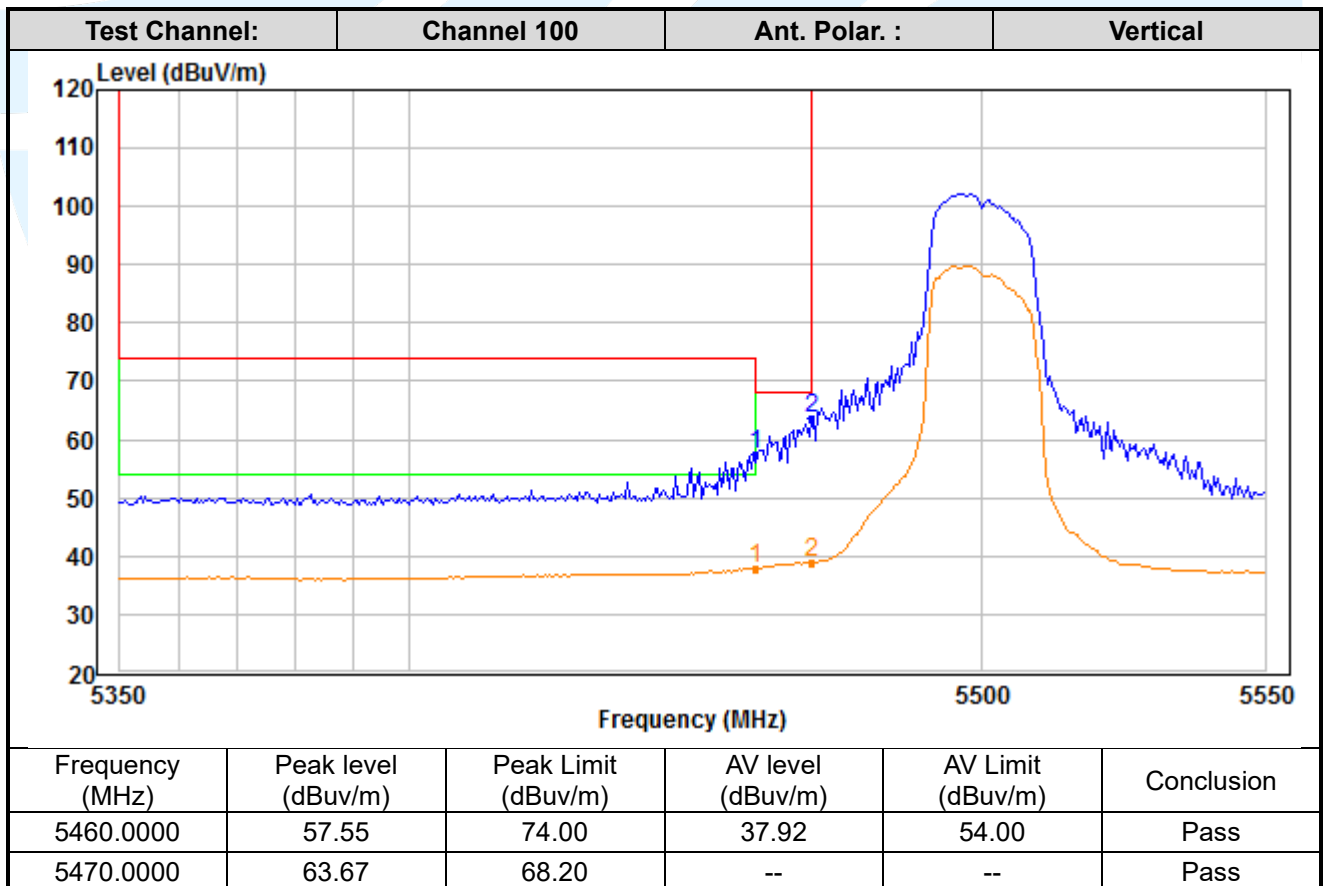
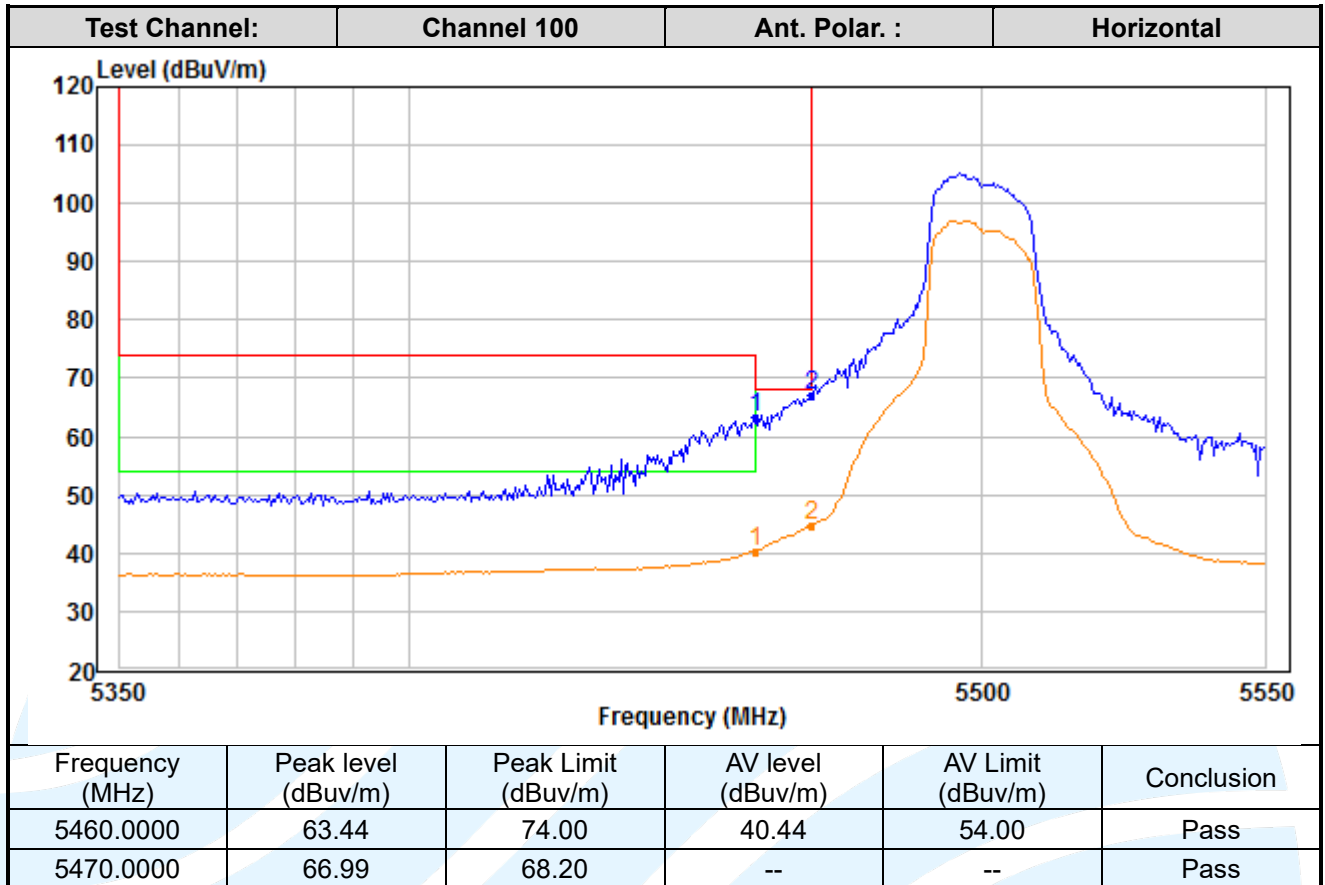
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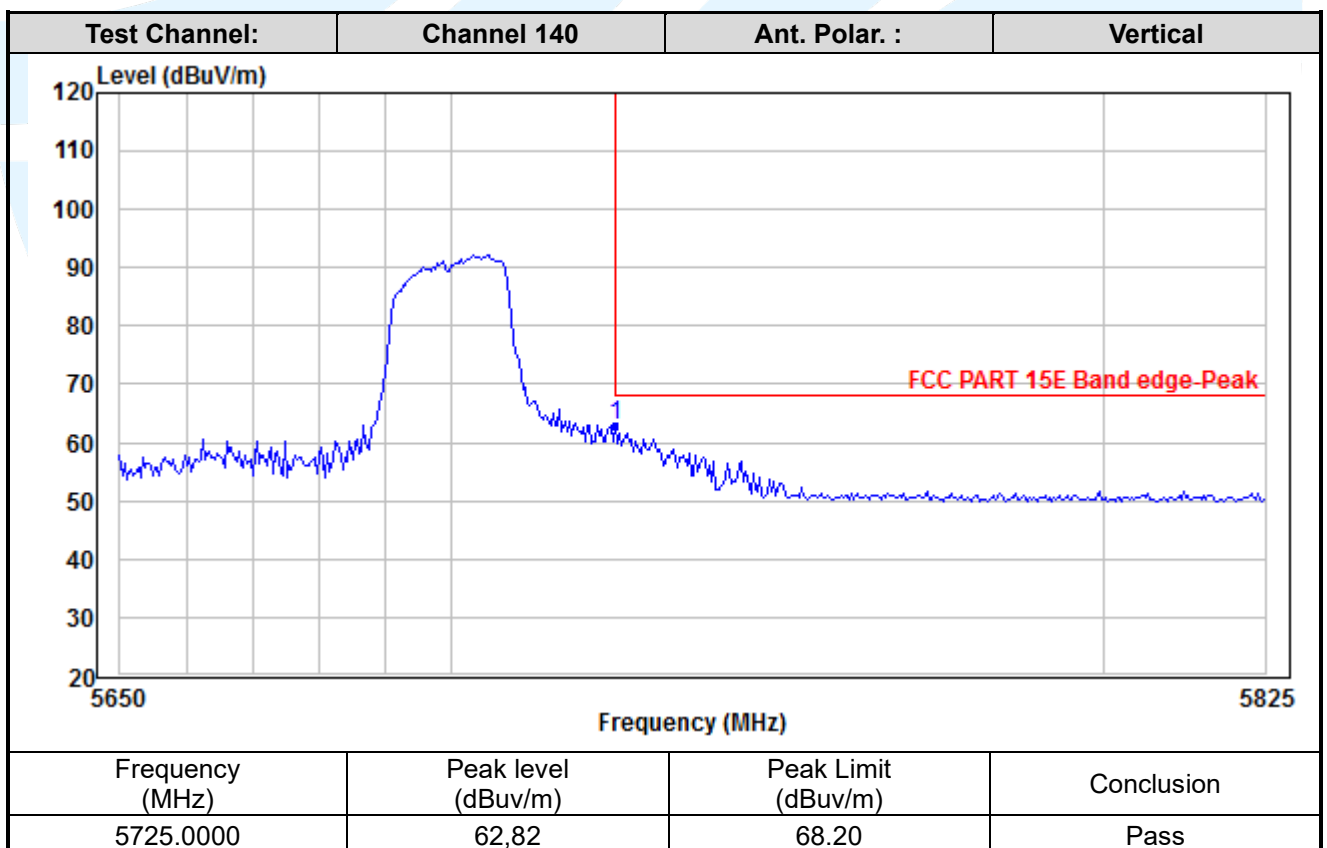
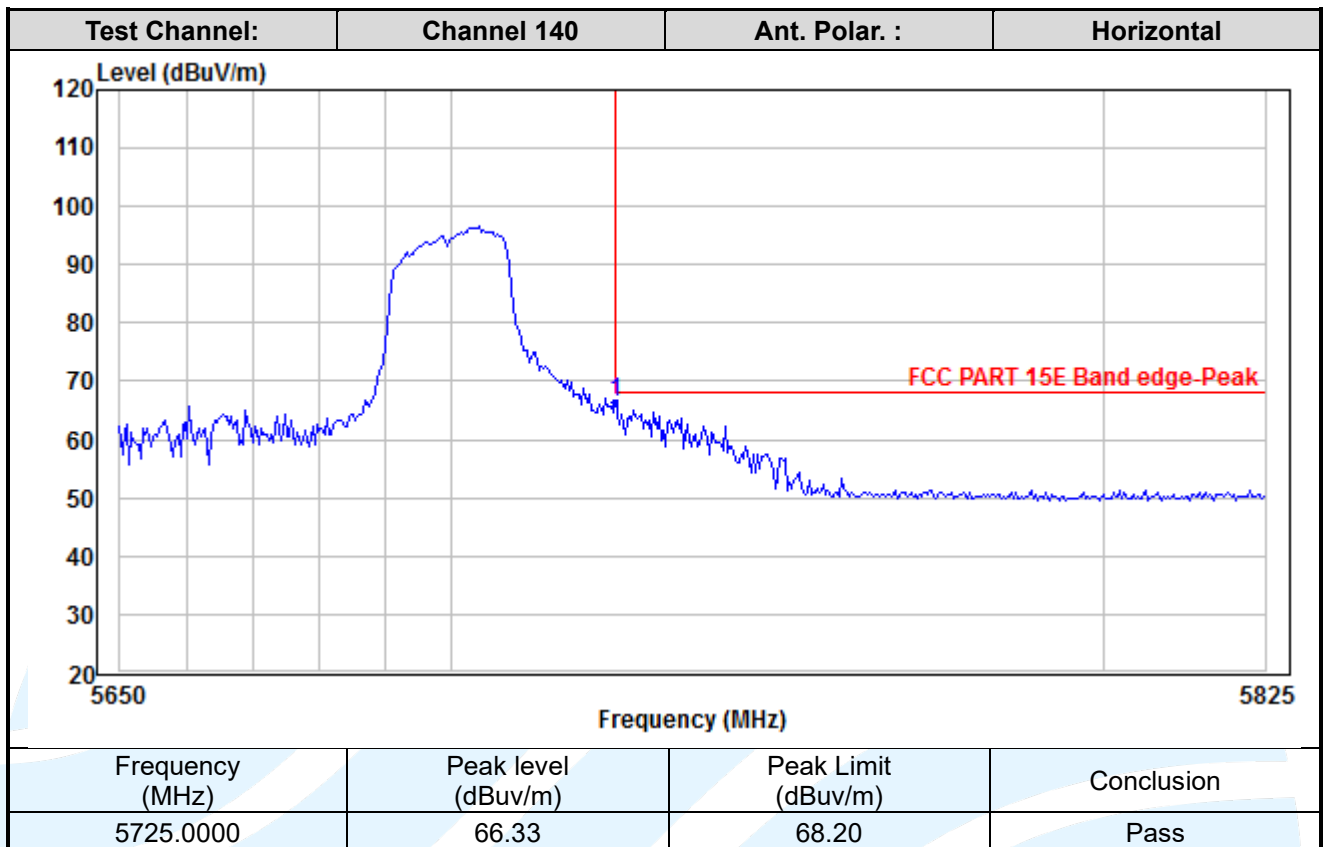
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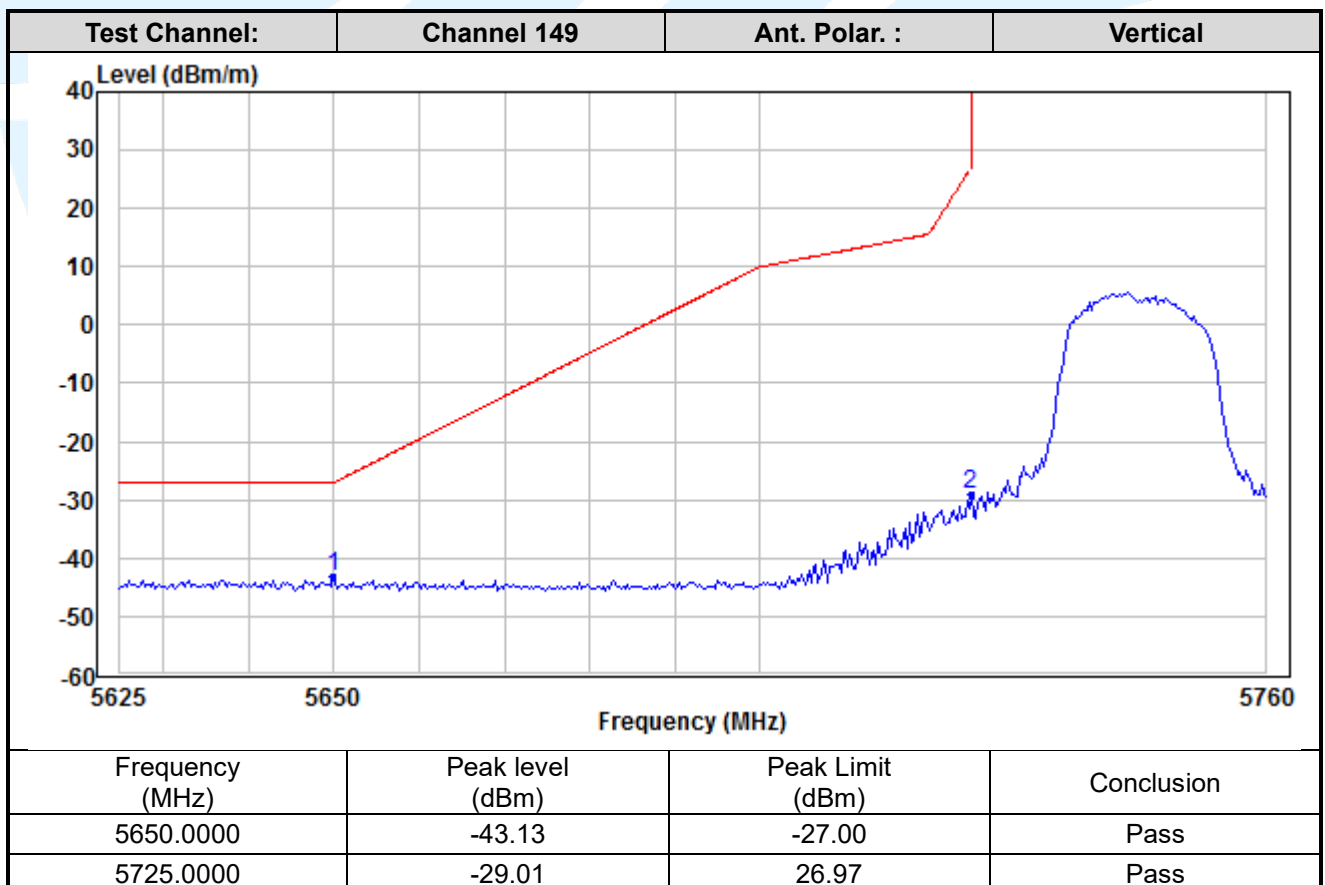
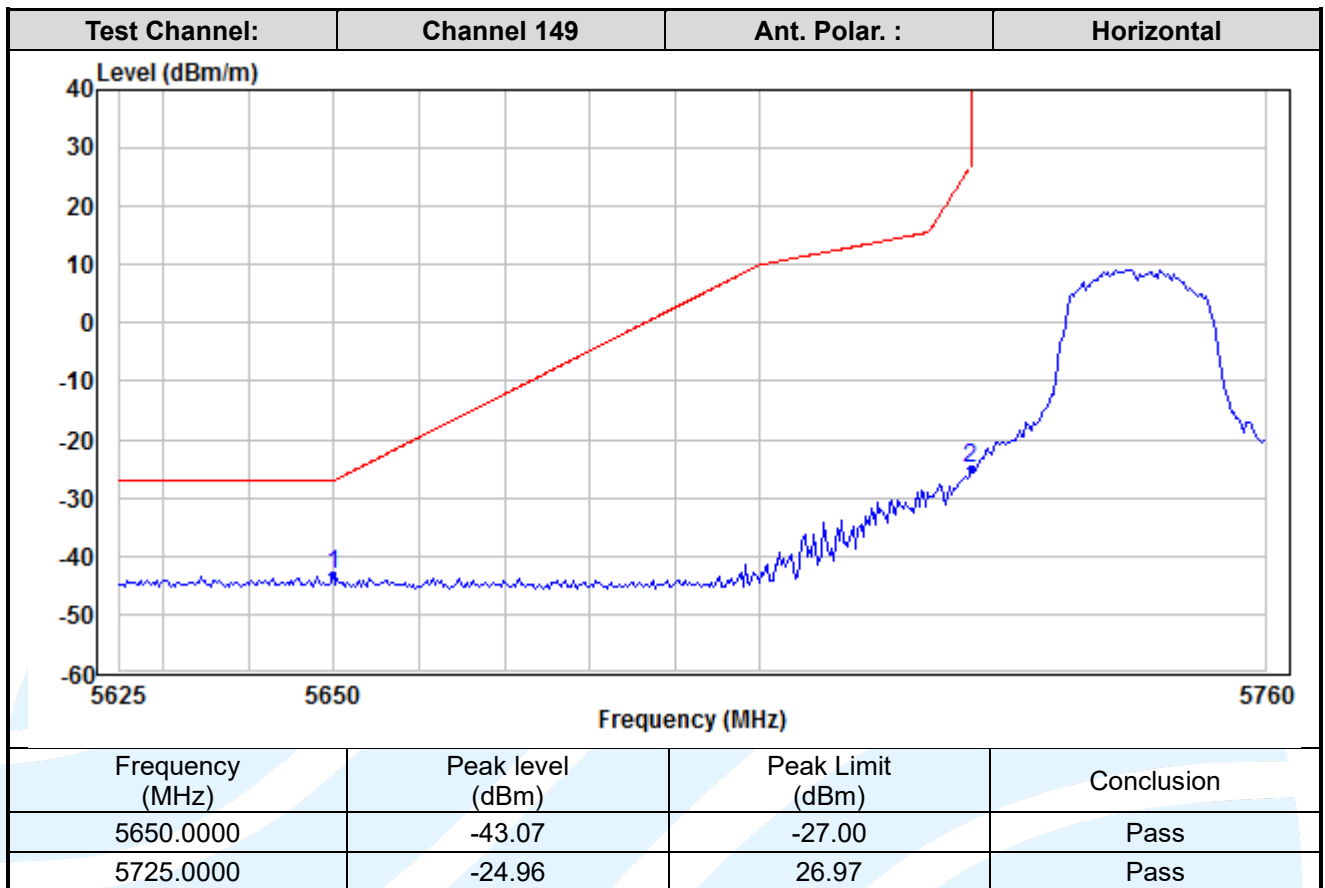
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 Tel: +86-755-28230888 Fax: +86-755-28230886 E-mail: info@uttlab.com <http://www.uttlab.com>
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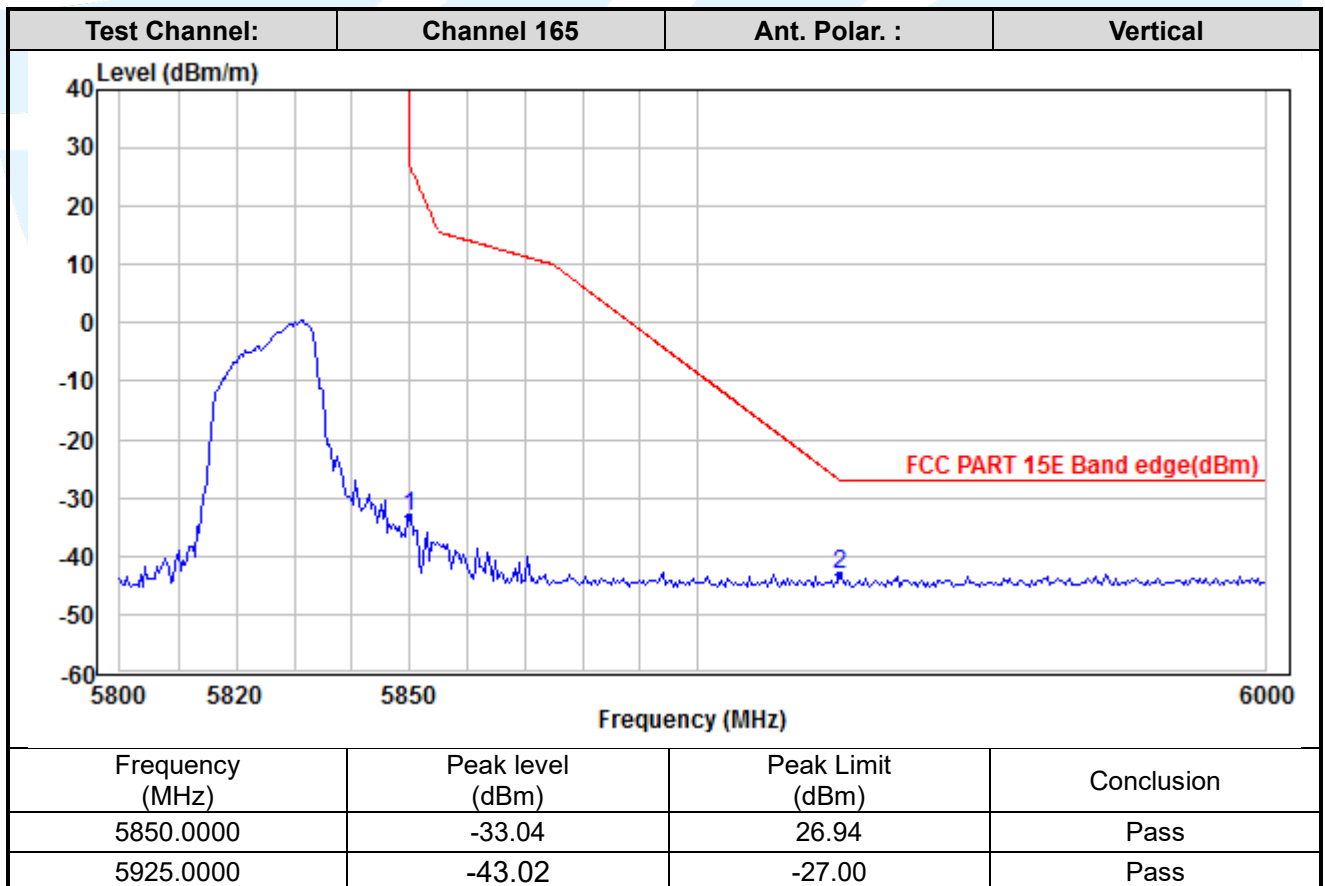
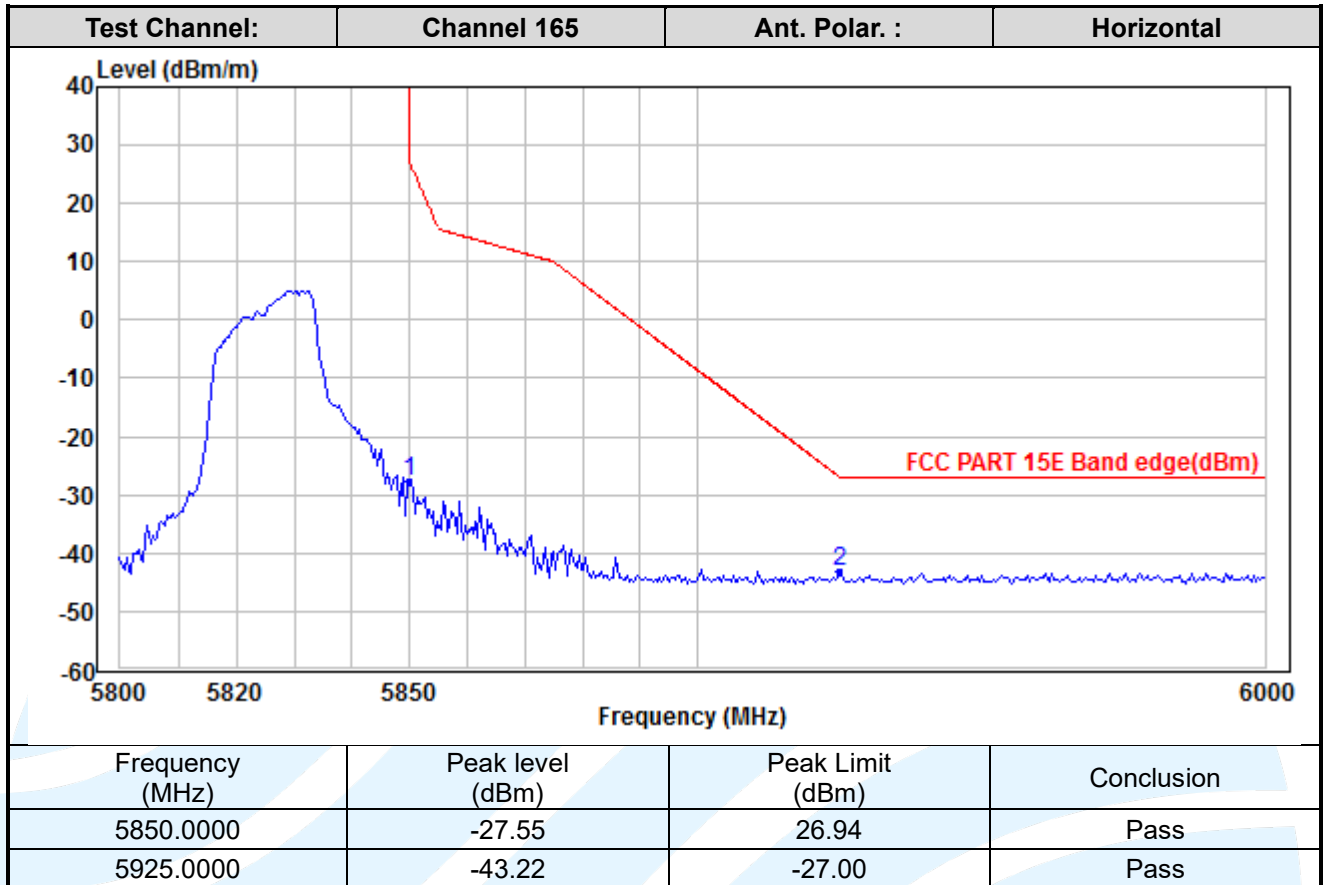
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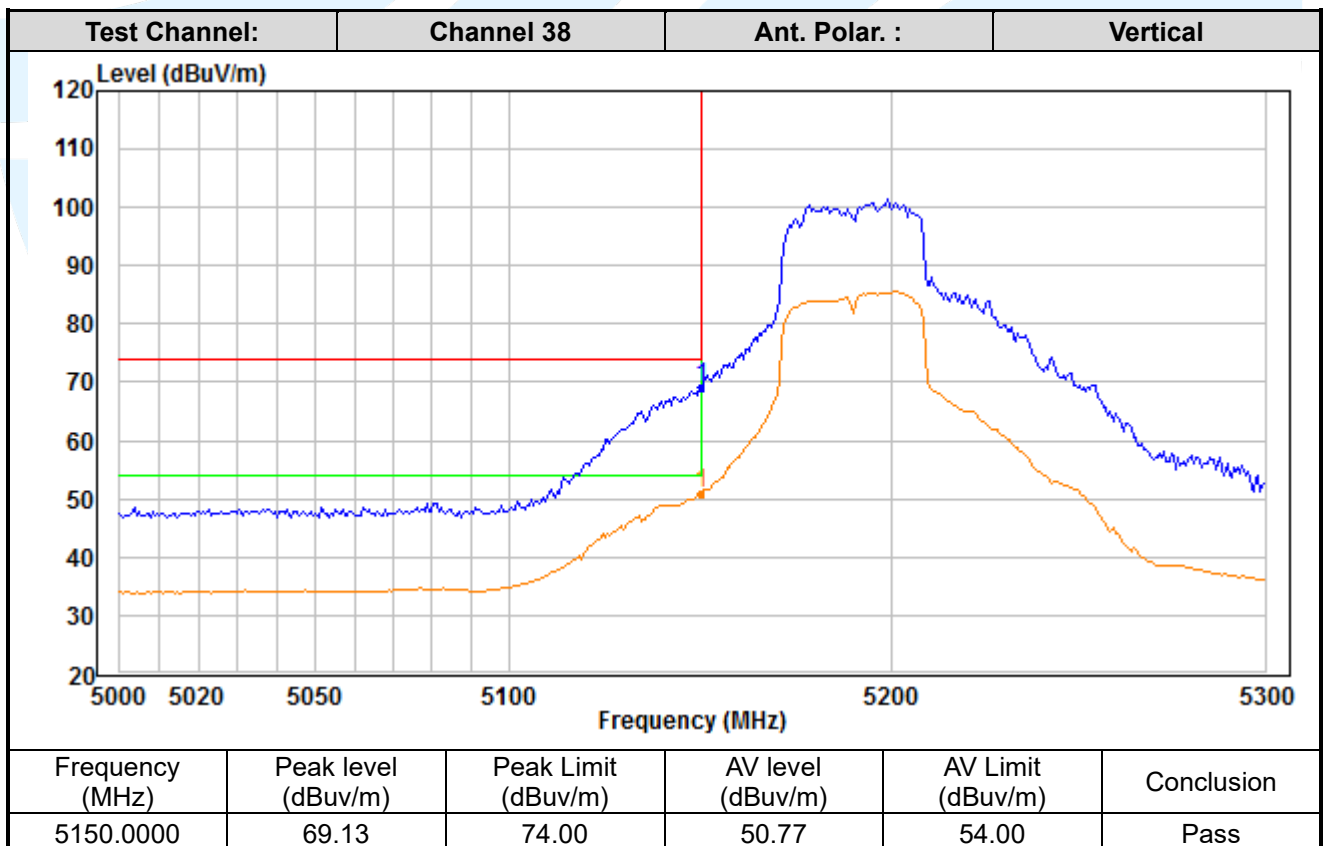
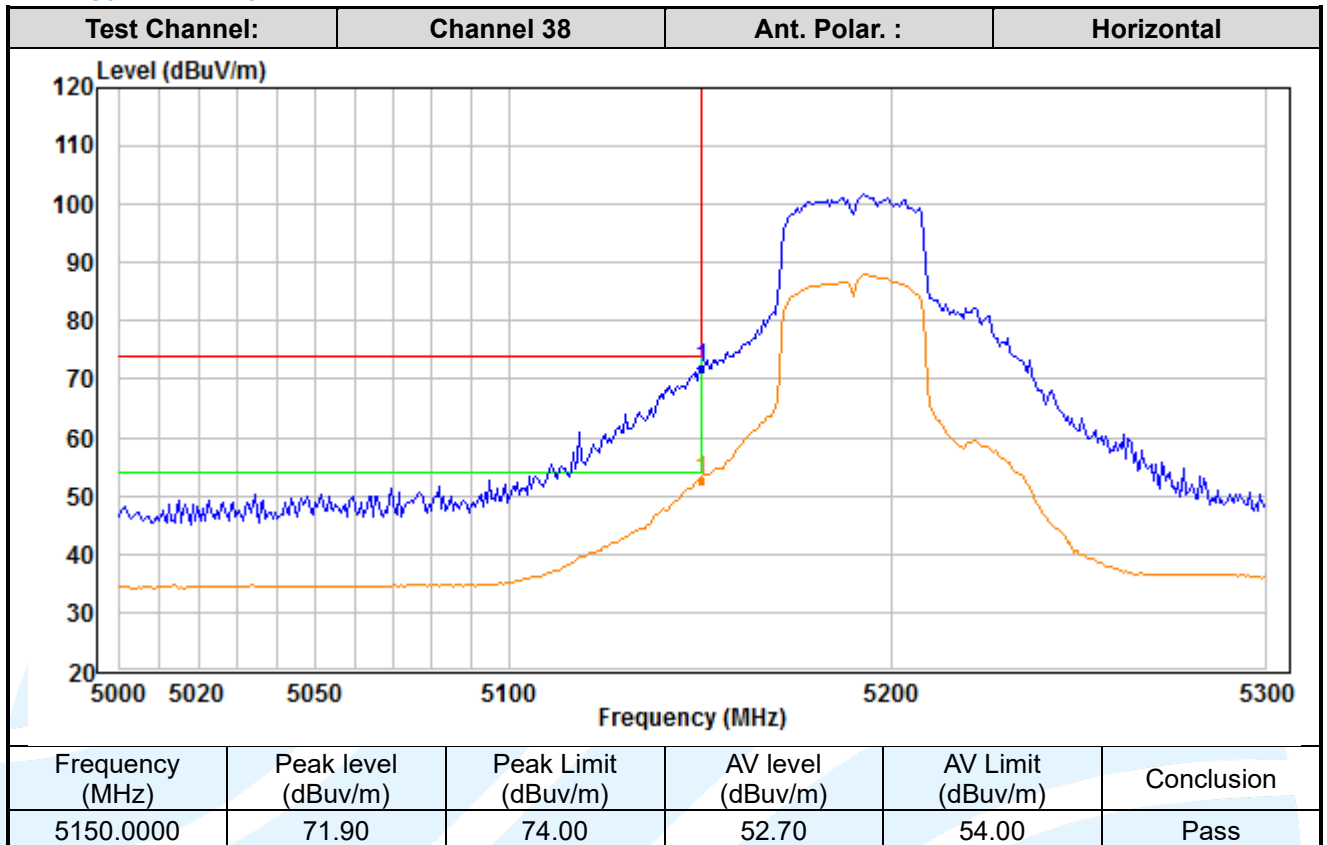
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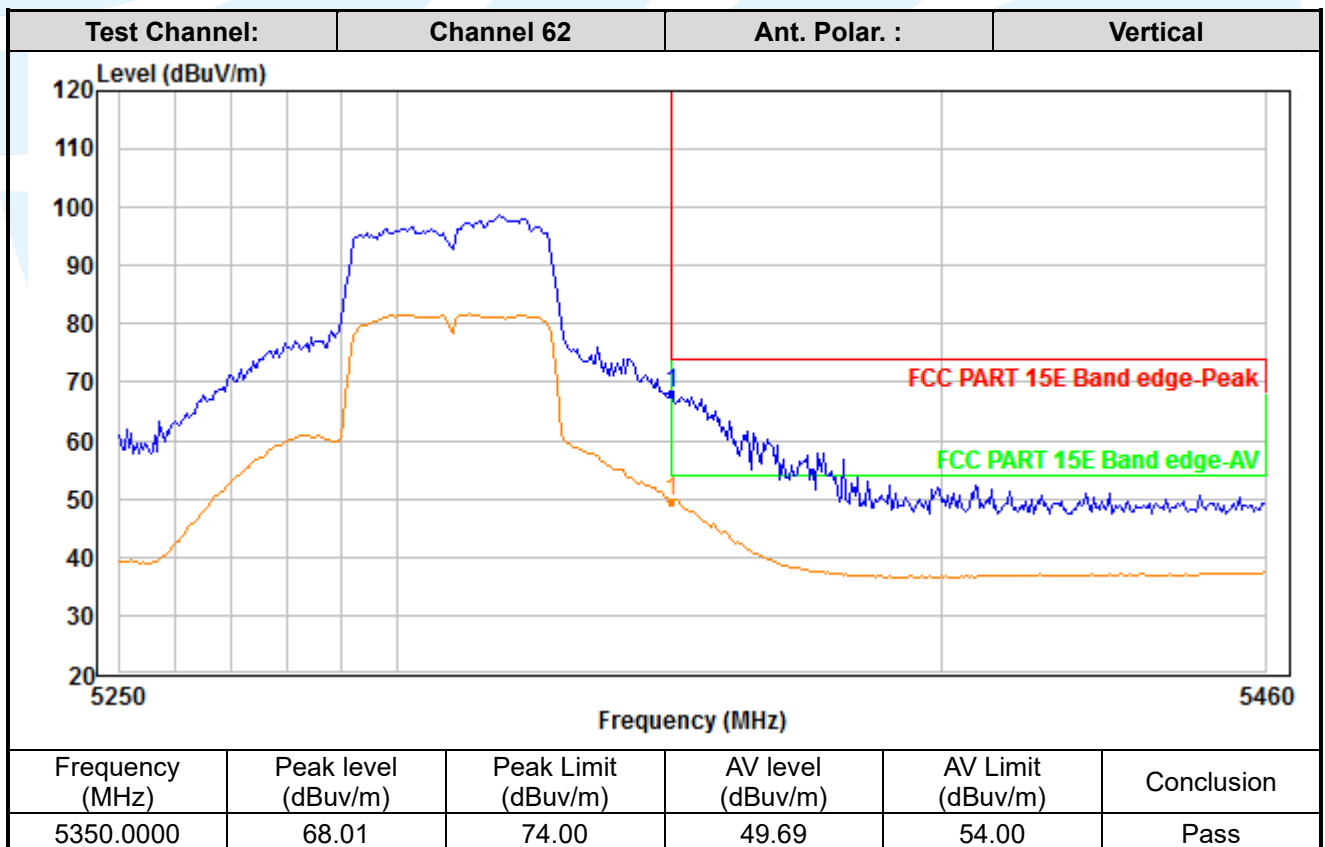
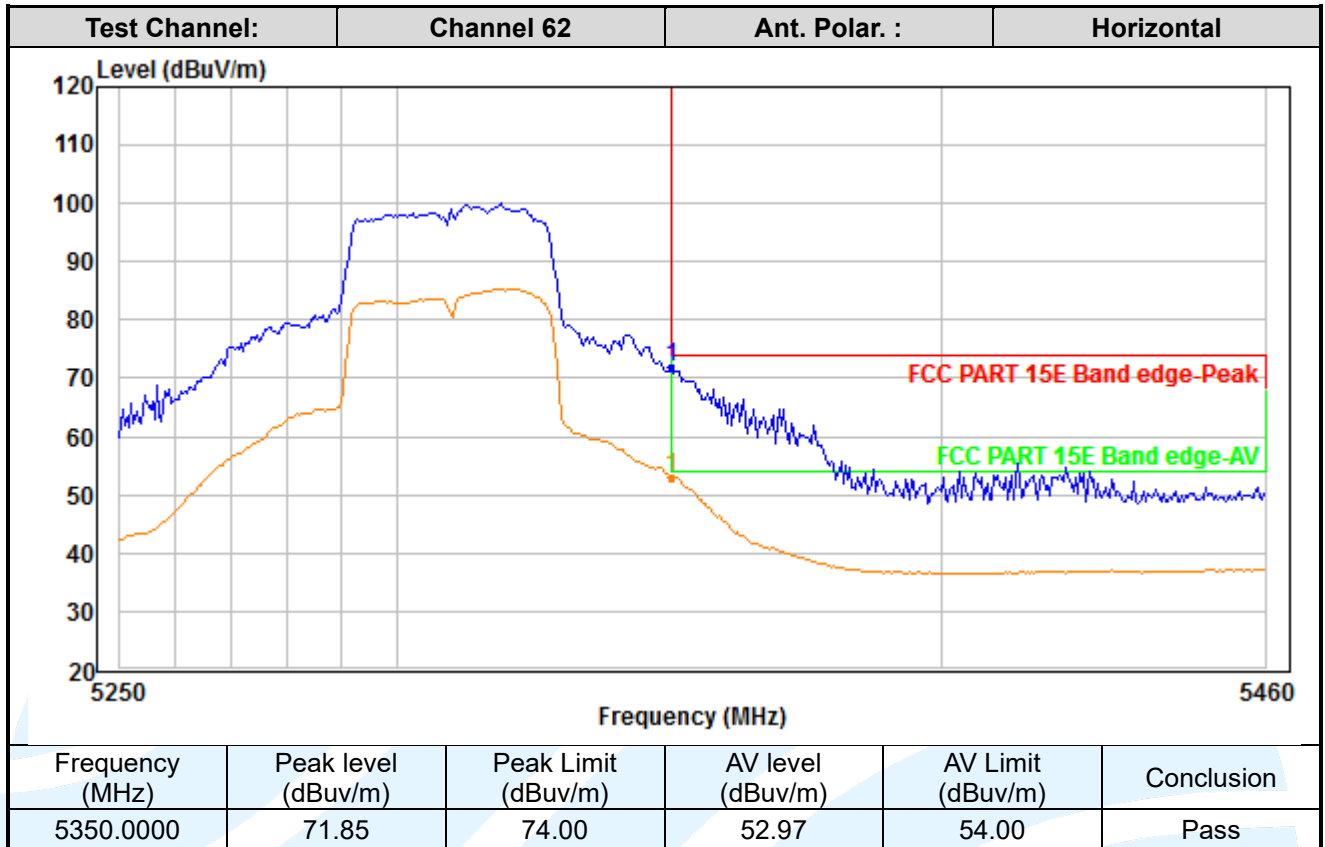
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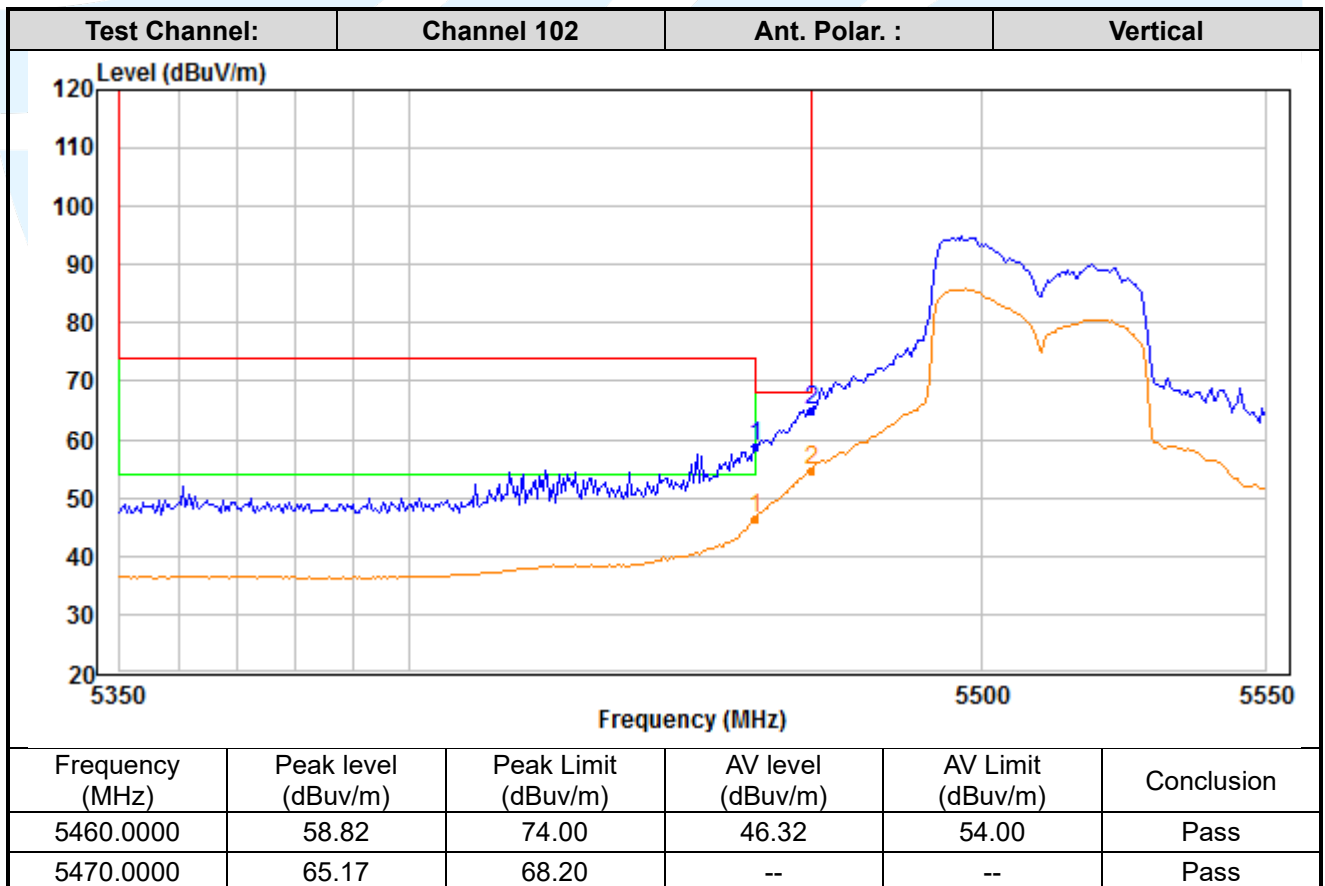
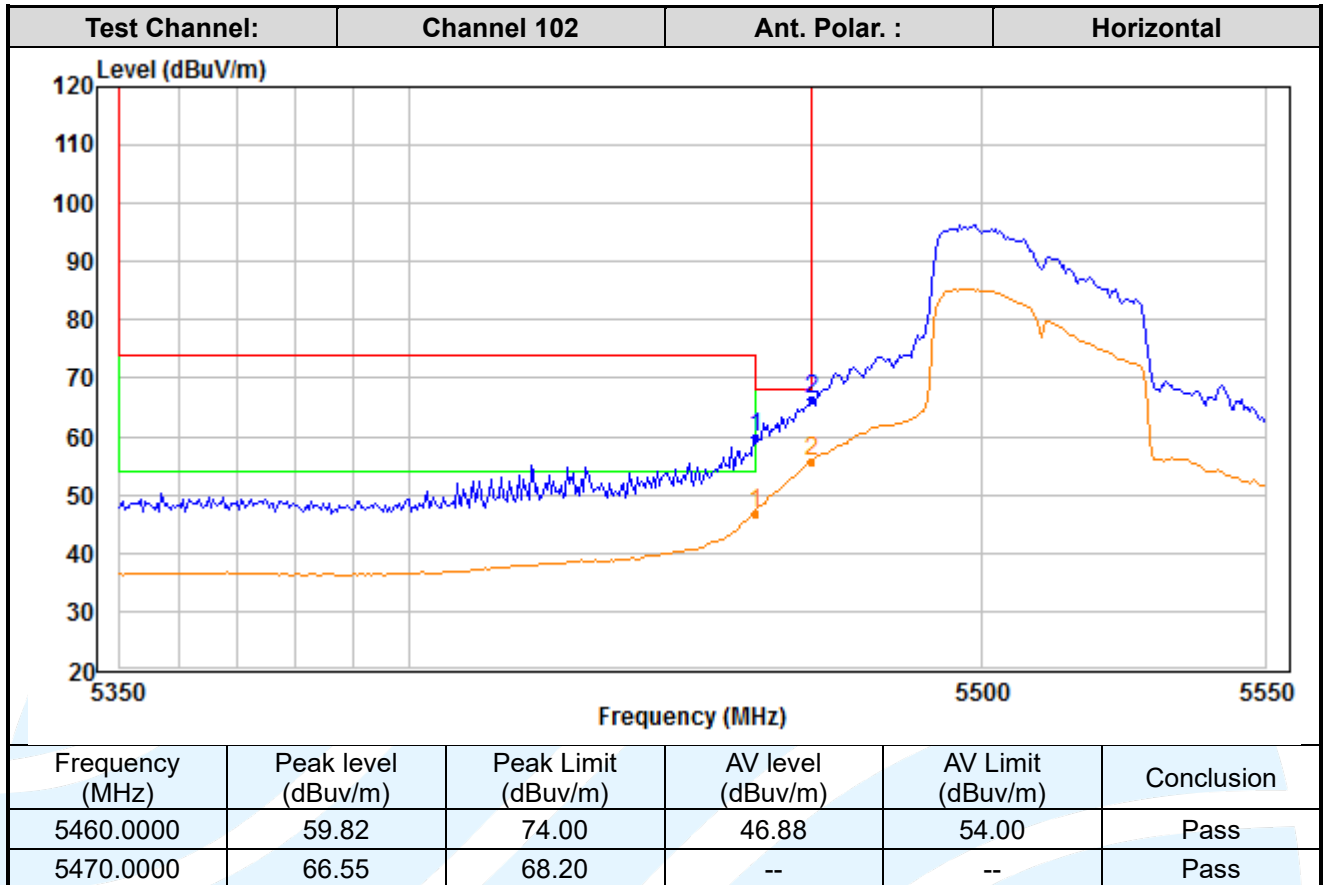
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