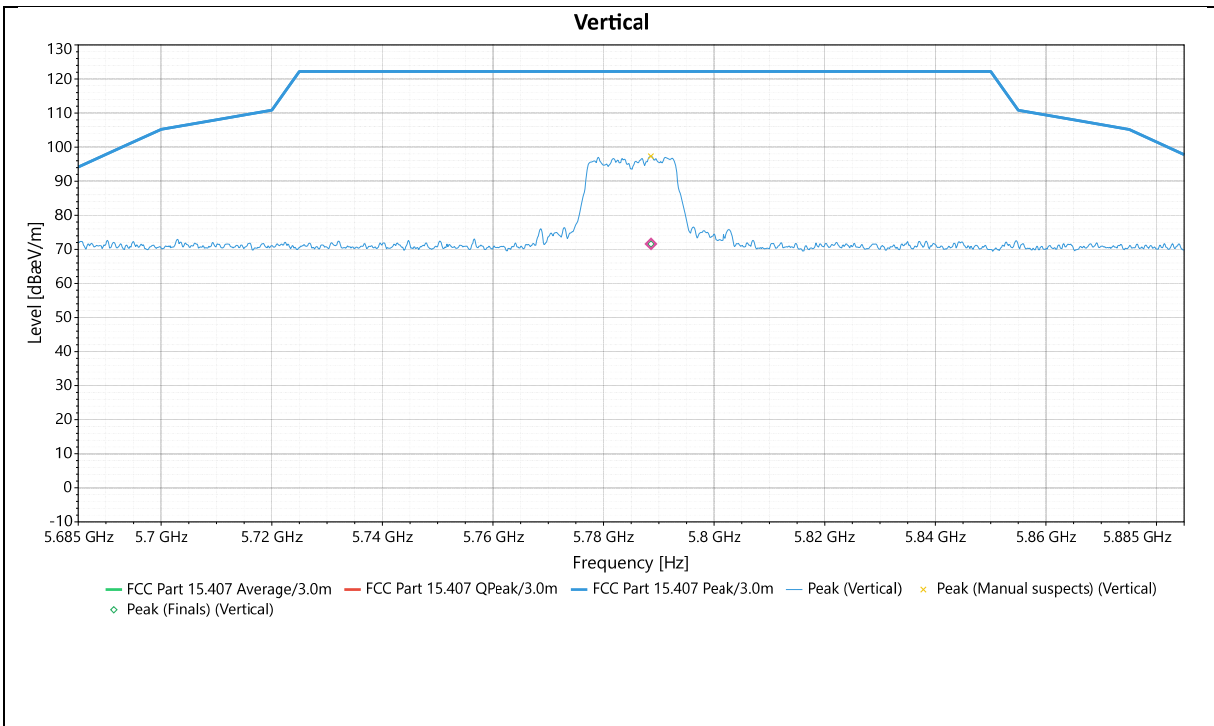


RESTRICTED BAND Test Plots
802.11a – 5785MHz

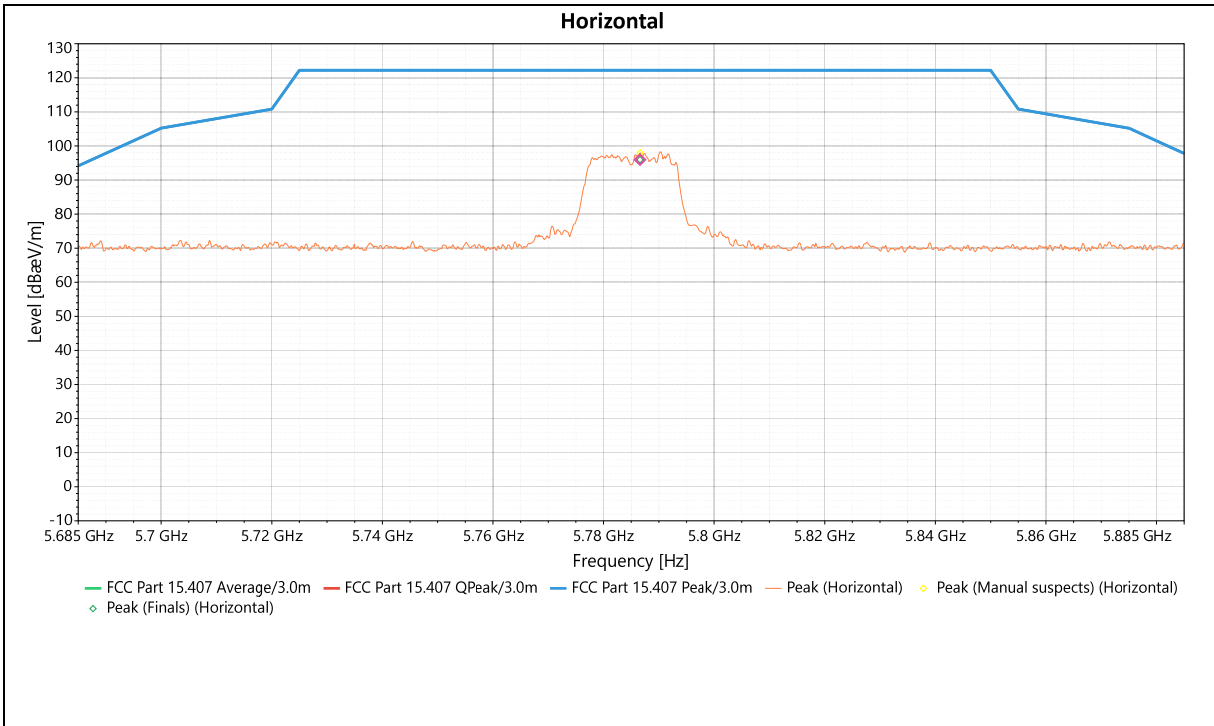


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5788.56	Vertical	97.331	122.23	NaN	NaN	2	180	40.79	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11a – 5785MHz

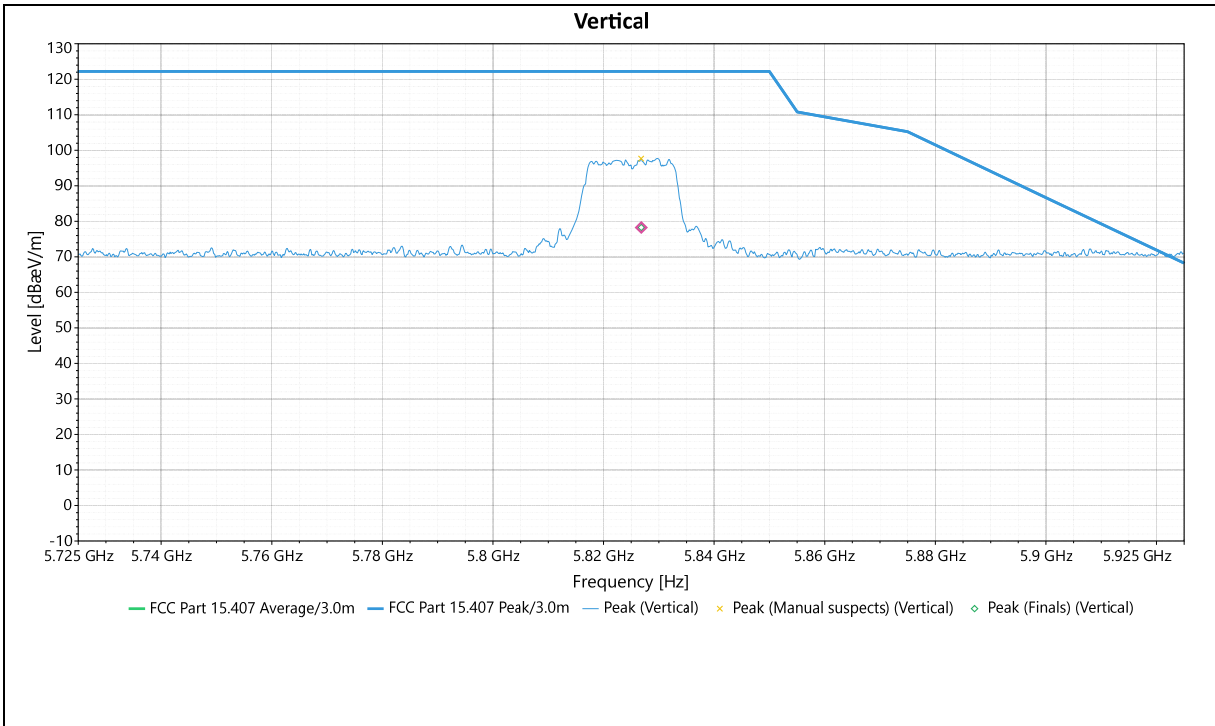


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5786.64	Horizontal	97.964	122.23	NaN	NaN	2.99	54	40.17	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11a – 5825MHz

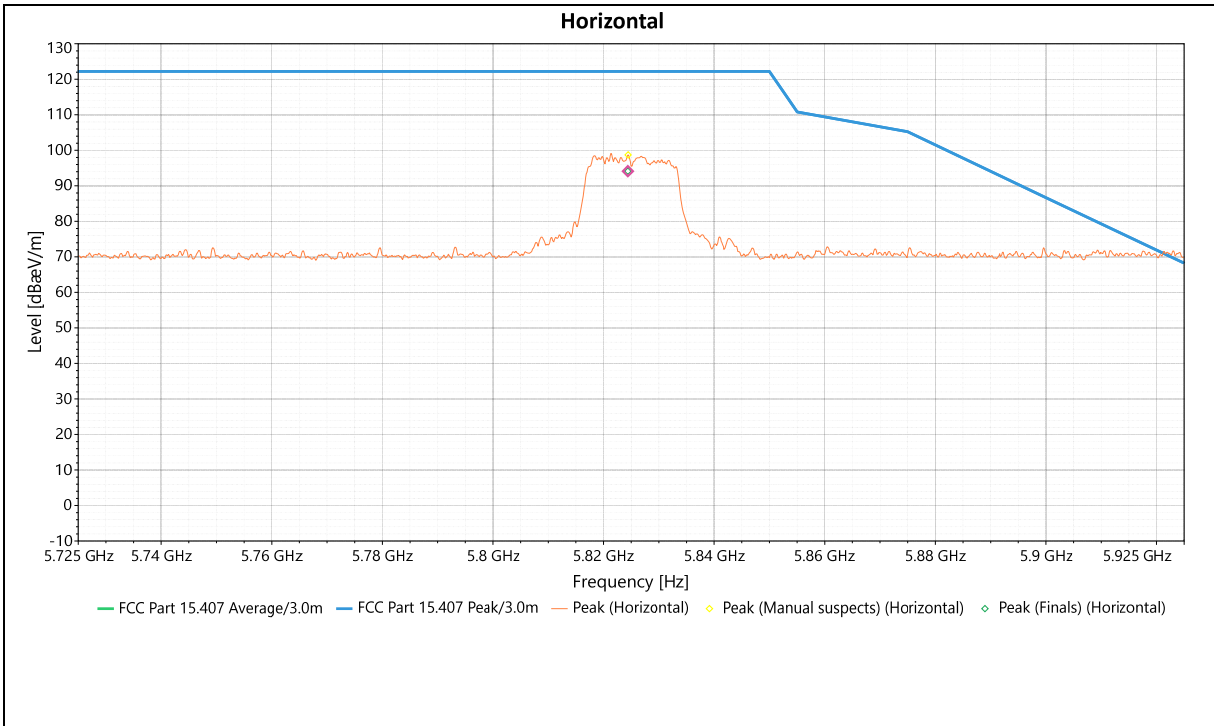


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5826.8	Vertical	97.679	122.23	NaN	NaN	1.99	185	40.81	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11a – 5825MHz

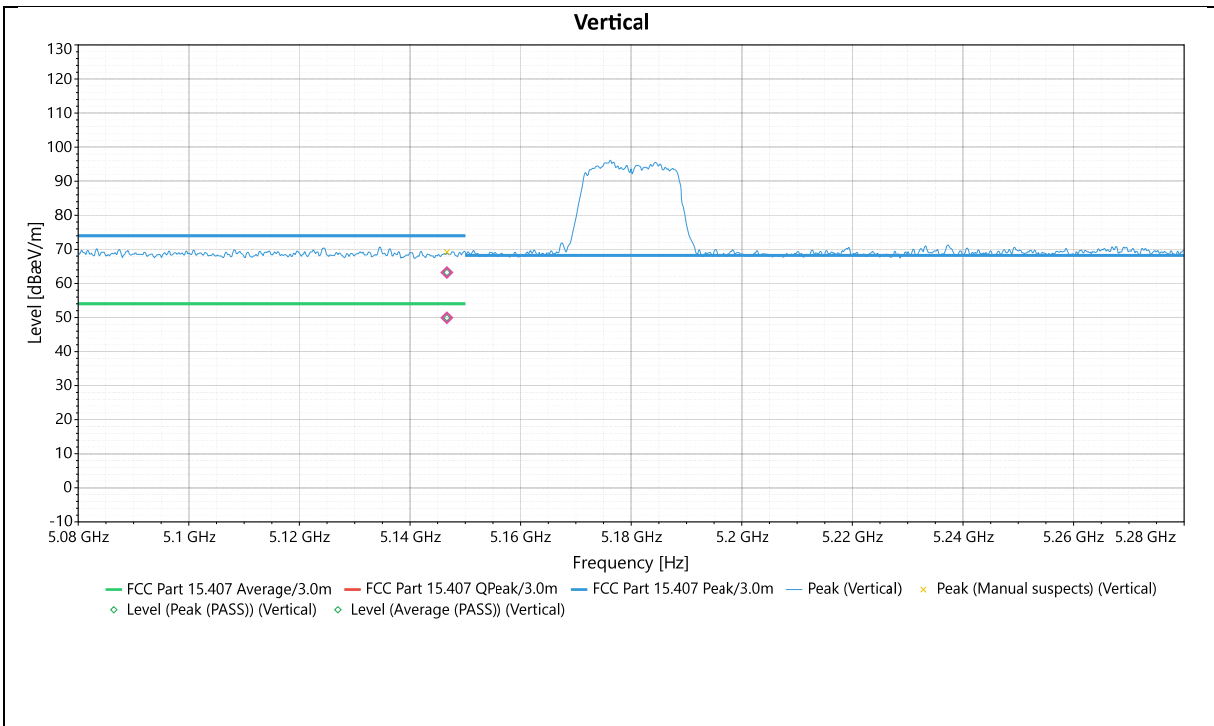


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5824.44	Horizontal	98.711	122.23	NaN	NaN	2.99	43	40.22	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5180MHz

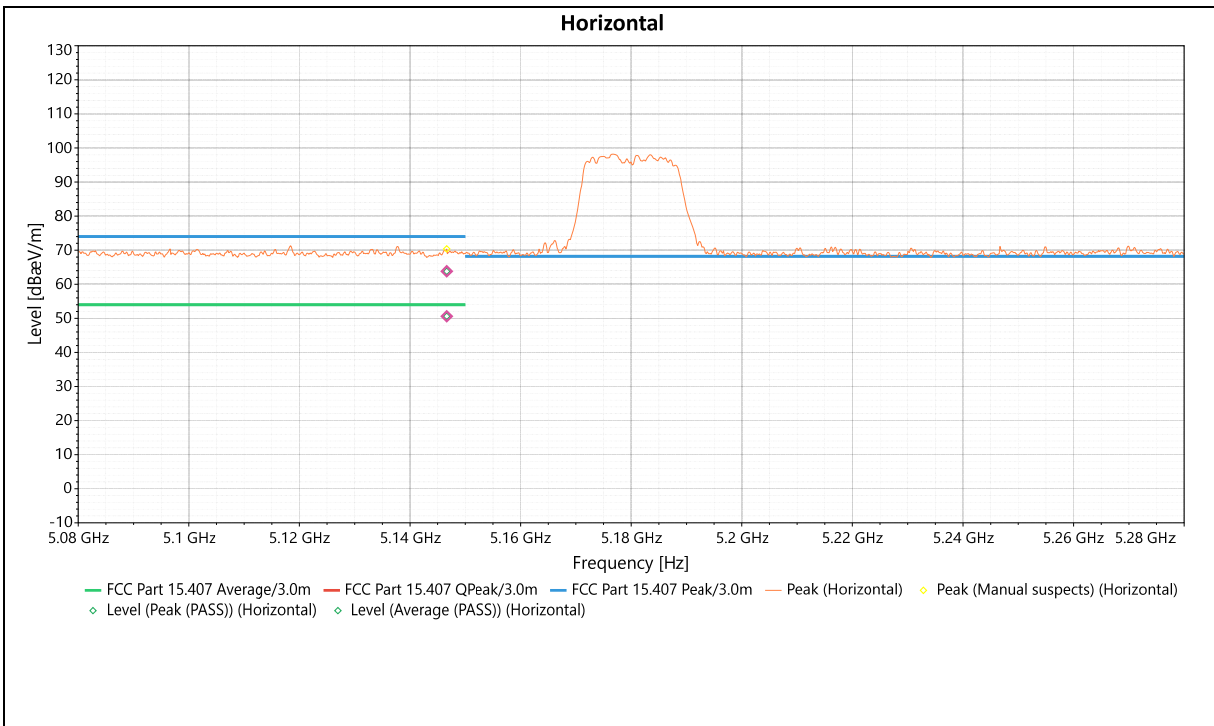


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5146.666	Vertical	63.222	74	-10.778	1.77	269	39.24	Peak (PASS)
2	5146.666	Vertical	49.93	54	-4.07	1.77	269	39.24	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5180MHz

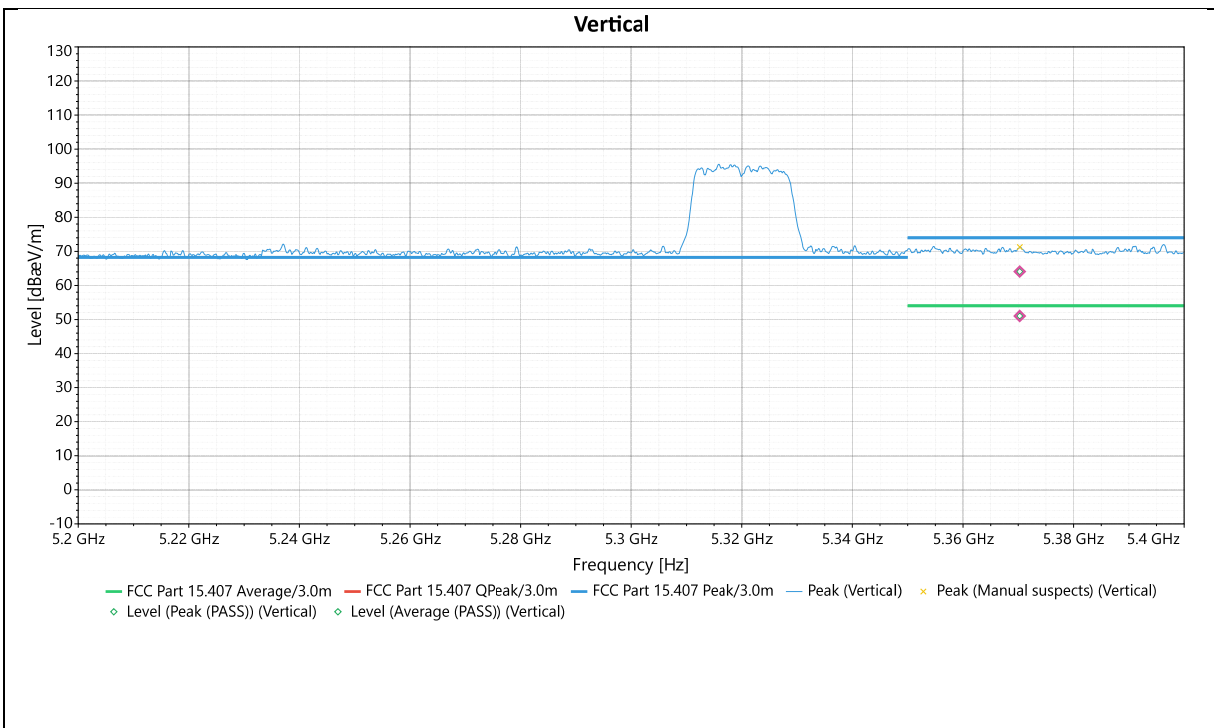


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(µV/m)]	Limit dB(µV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5146.641	Horizontal	63.812	74	-10.188	2.34	3	39.75	Peak (PASS)
2	5146.641	Horizontal	50.614	54	-3.386	2.34	3	39.75	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5320MHz

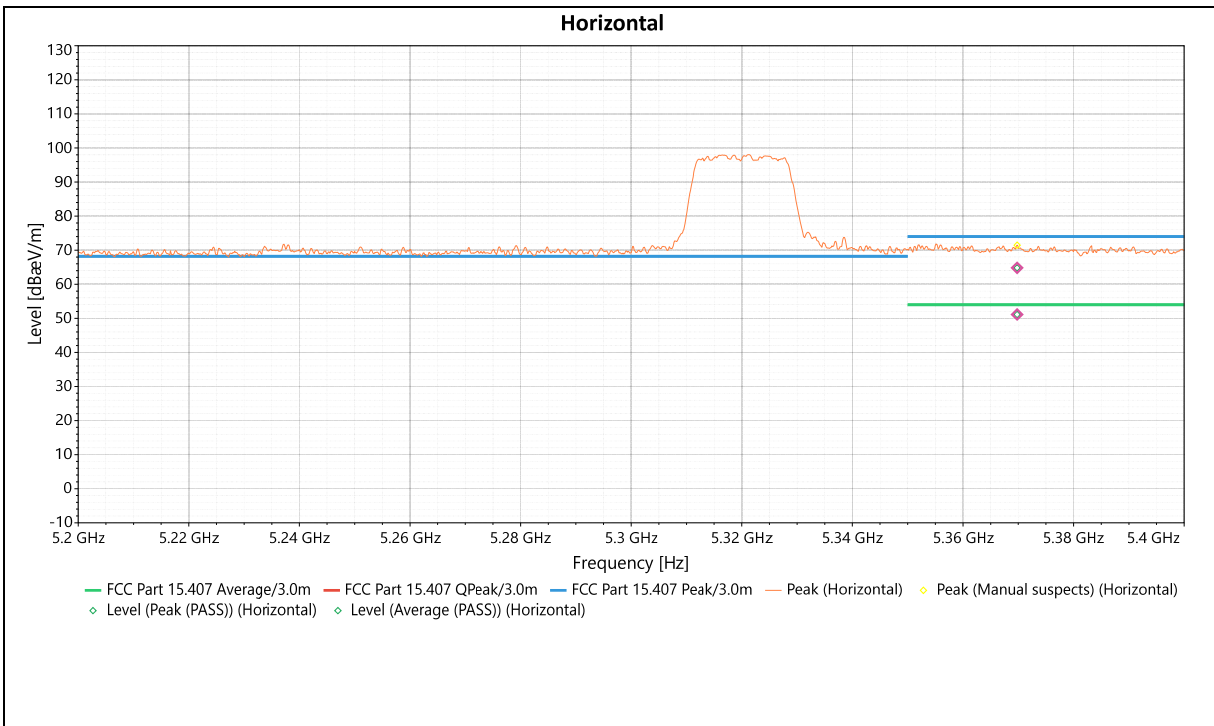


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5370.258	Vertical	64.074	74	-9.926	3.92	198	39.61	Peak (PASS)
2	5370.258	Vertical	51.032	54	-2.968	3.92	198	39.61	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5320MHz

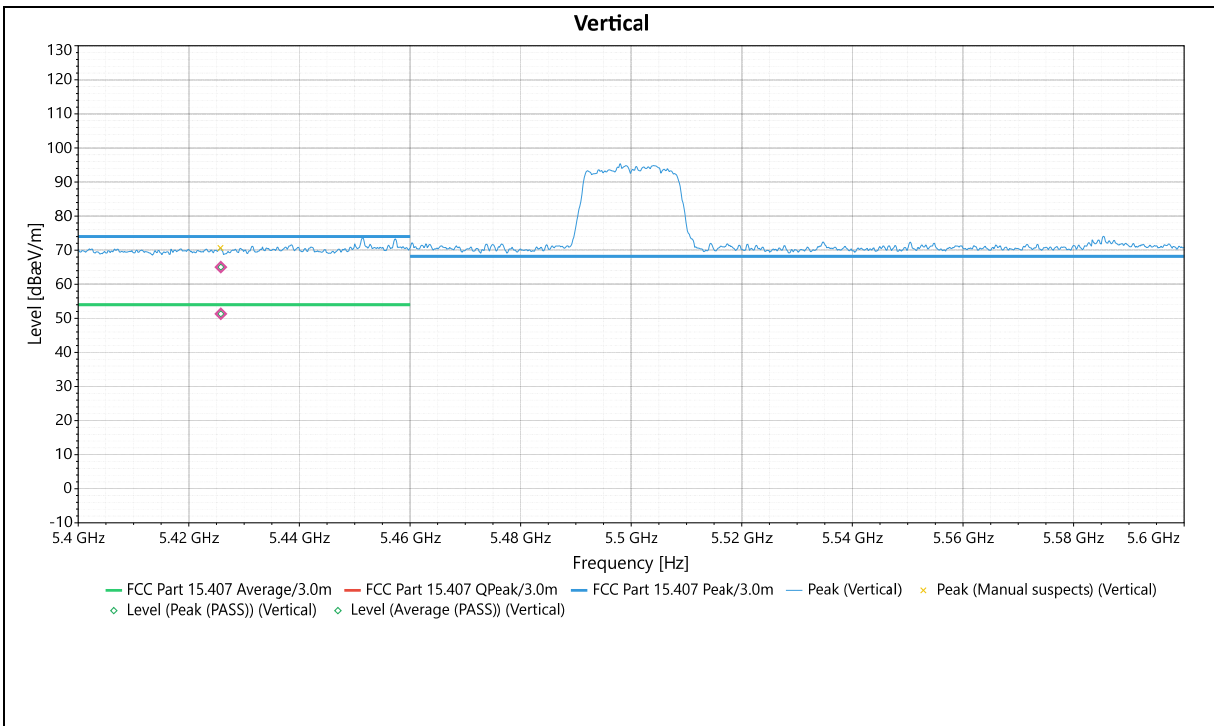


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5369.79	Horizontal	64.818	74	-9.182	3.73	360	39.68	Peak (PASS)
2	5369.79	Horizontal	51.13	54	-2.87	3.73	360	39.68	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5500MHz

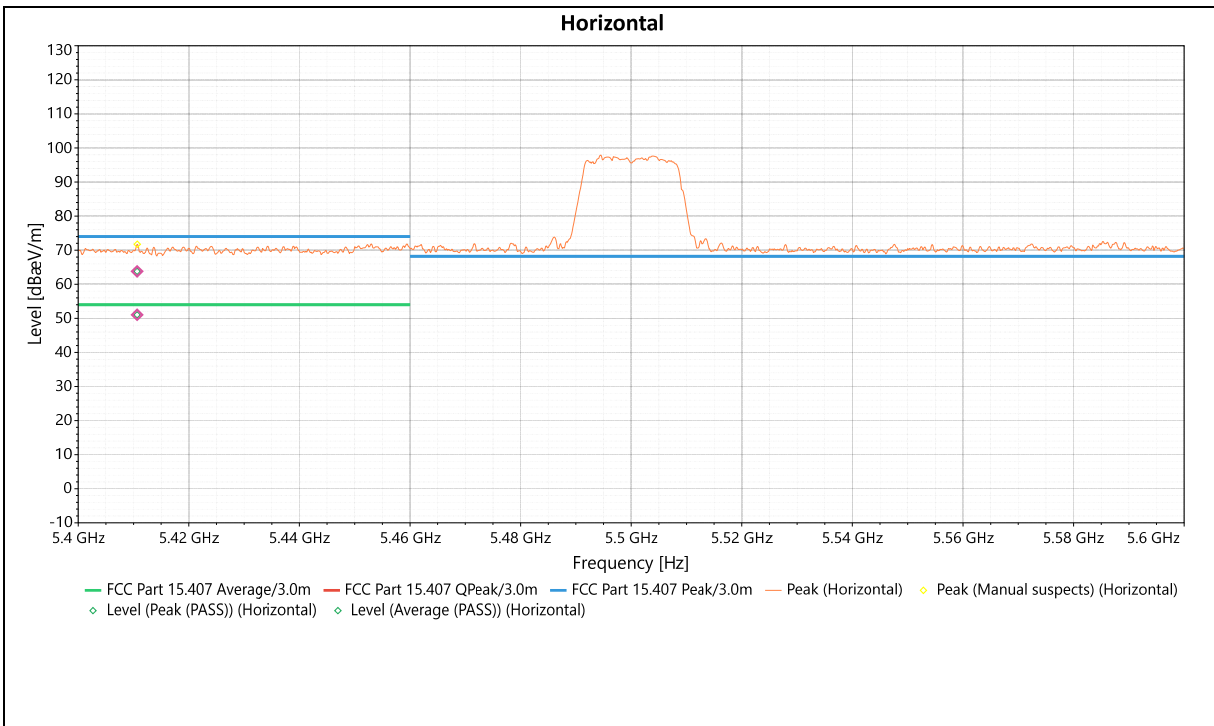


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(µV/m)]	Limit dB(µV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5425.796	Vertical	65.036	74	-8.964	1.87	16	39.79	Peak (PASS)
2	5425.796	Vertical	51.318	54	-2.682	1.87	16	39.79	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5500MHz

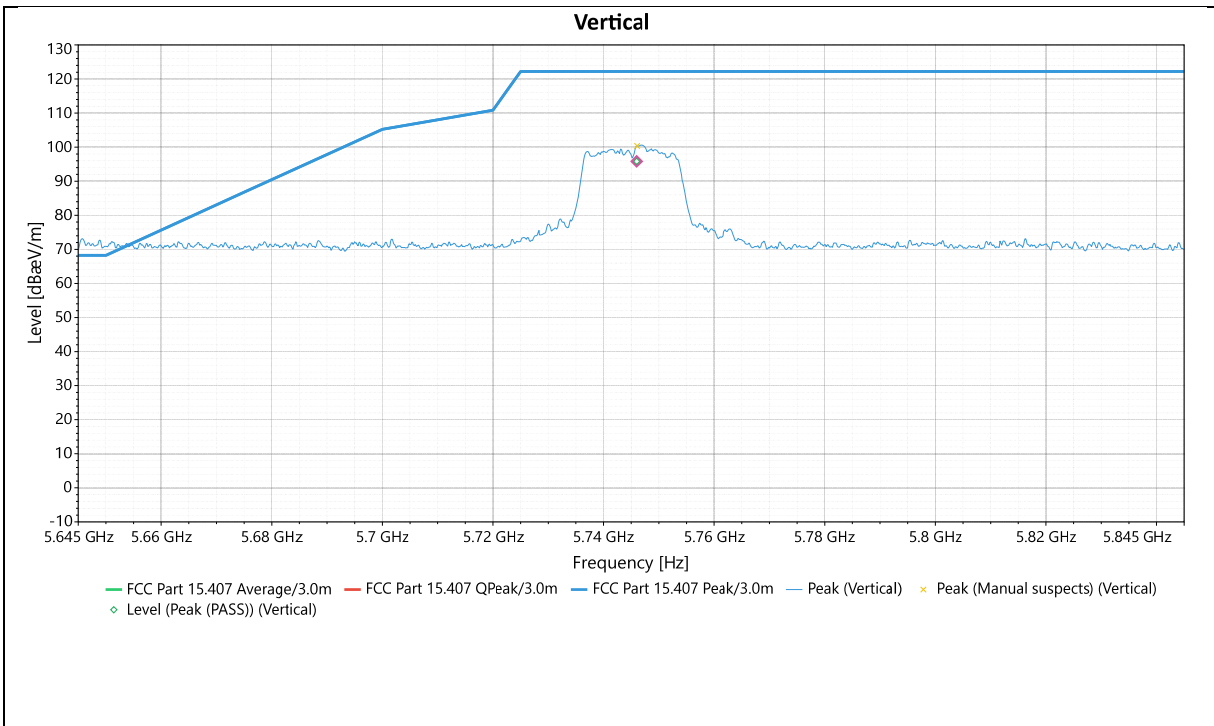


Antenna Polarity & Test Distance: Vertical at 3m									
No.	Frequency (MHz)	Polarization	Level [dB(µV/m)]	Limit dB(µV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5410.65	Horizontal	63.789	74	-10.211	2.61	269	39.7	Peak (PASS)
2	5410.65	Horizontal	51.04	54	-2.96	2.61	269	39.7	Average (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5745MHz

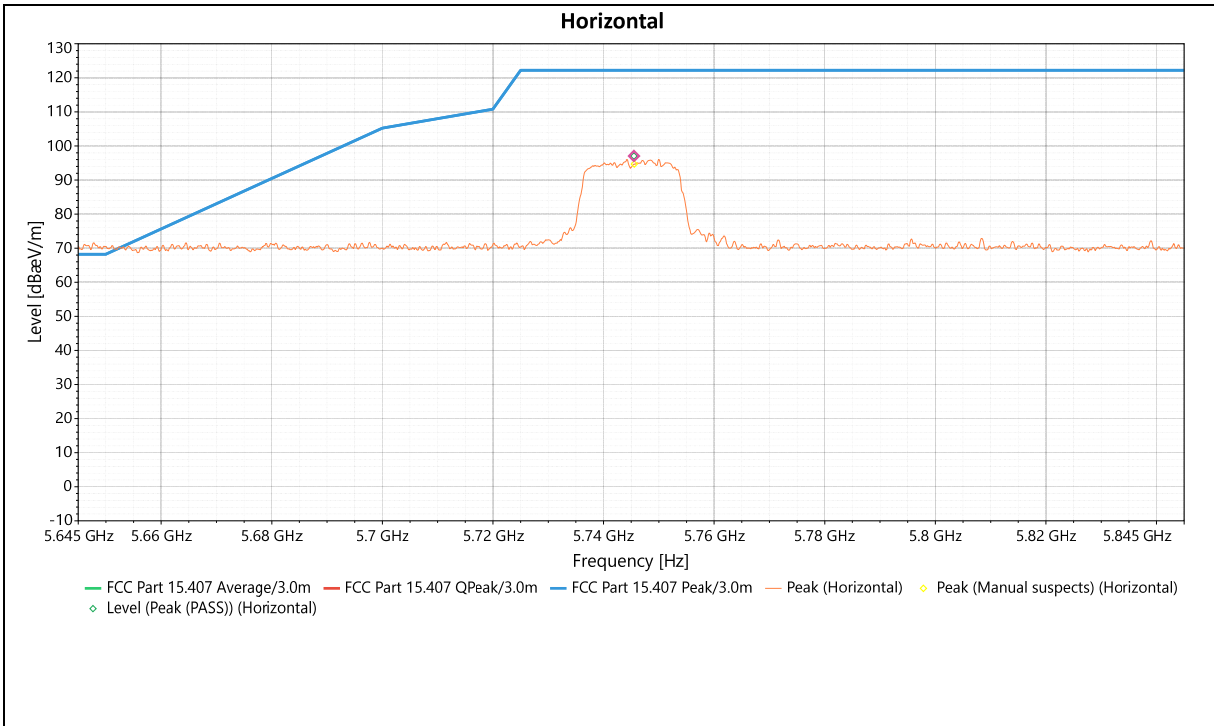


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5746.08	Vertical	100.35	122.23	NaN	NaN	1.5	312	40.72	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT – 5745MHz

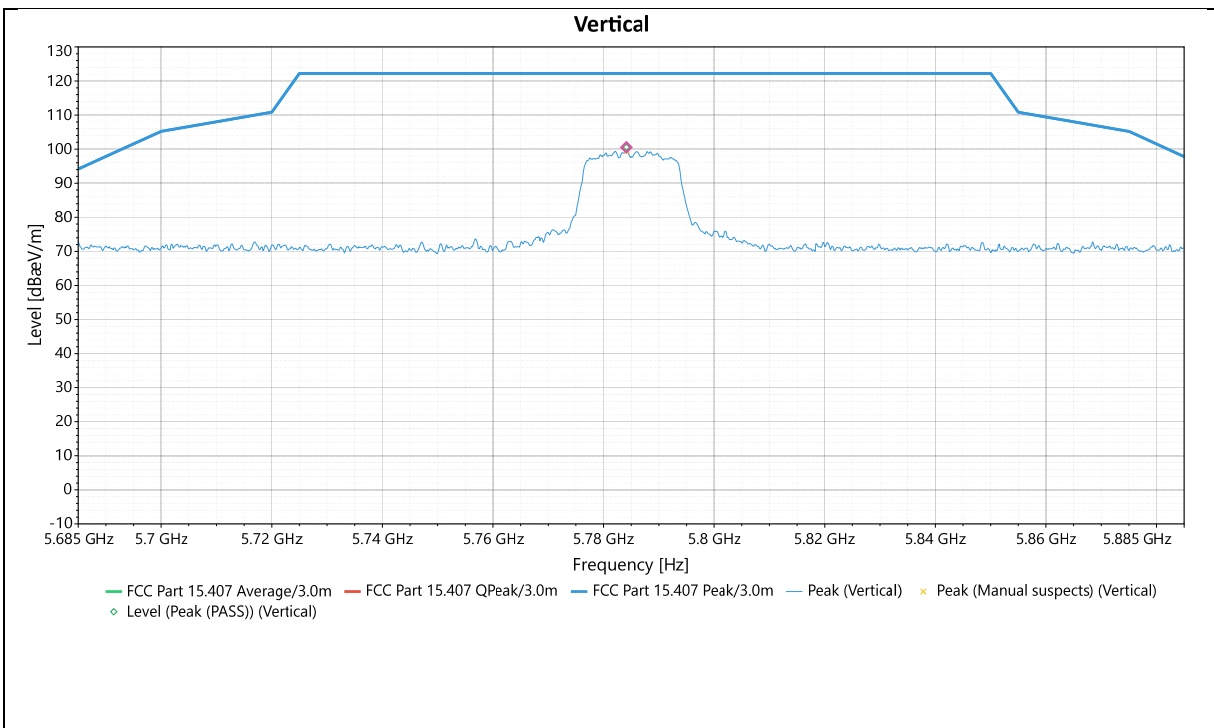


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5745.56	Vertical	94.703	122.23	NaN	NaN	2.5	191	40.05	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5785MHz

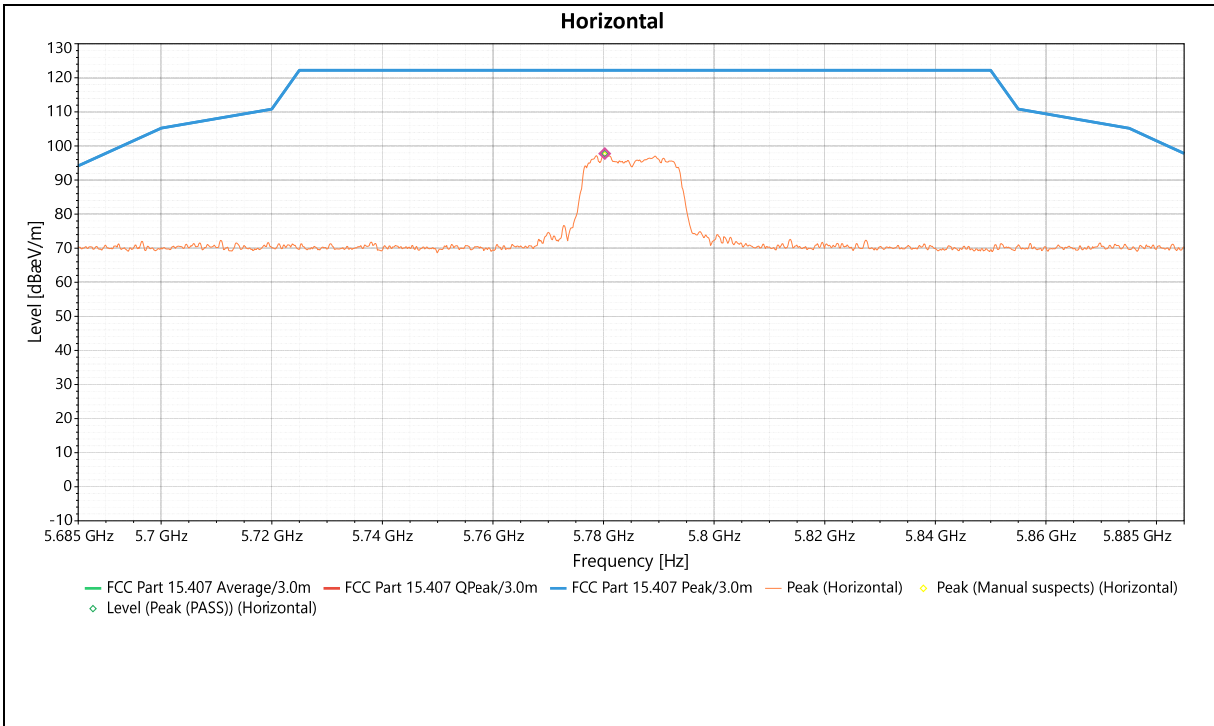


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5784.2	Vertical	99.516	122.23	NaN	NaN	1.49	312	40.79	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5785MHz

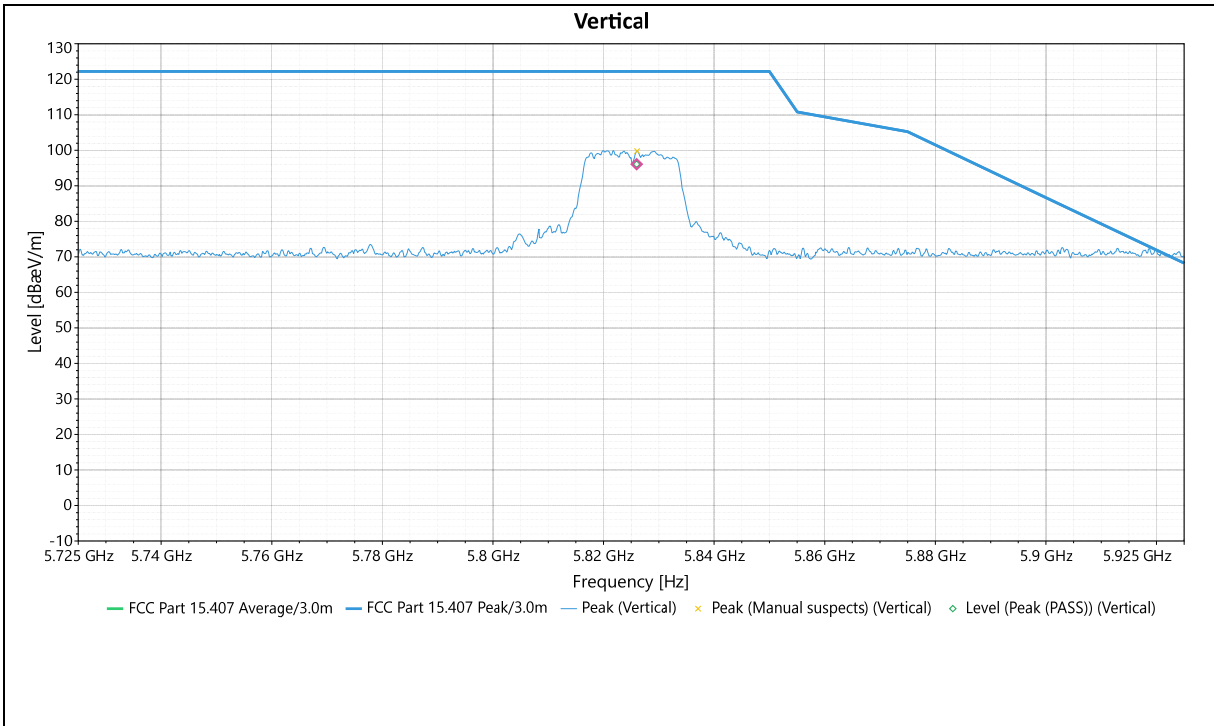


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5780.2	Horizontal	97.31	122.23	NaN	NaN	2.99	28	40.17	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5825MHz

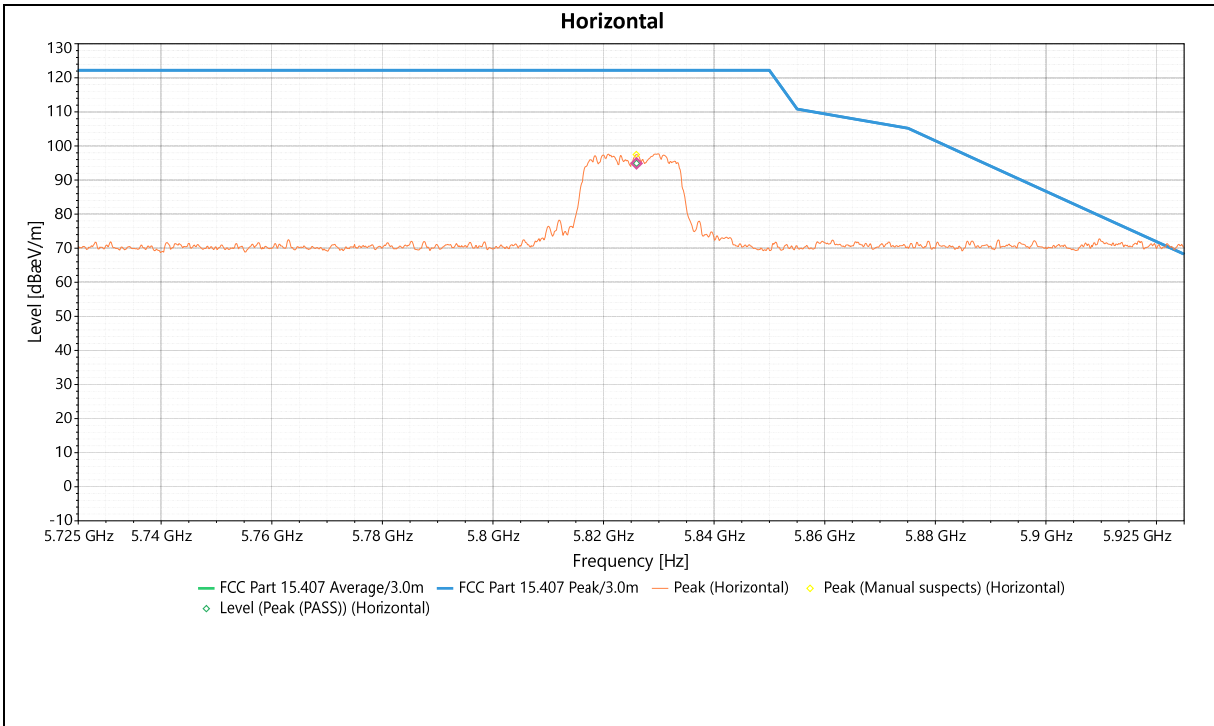


Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(µV/m)]	Limit Peak dB(µV/m)	Limit Avg dB(µV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5826.08	Vertical	99.8	122.23	NaN	NaN	3	315	40.81	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

RESTRICTED BAND Test Plots
802.11n HT20 – 5825MHz



Antenna Polarity & Test Distance: Vertical at 3m										
No.	Frequency (MHz)	Polarization	Level [dB(uV/m)]	Limit Peak dB(uV/m)	Limit Avg dB(uV/m)	Margin [dB]	Height (m)	Angle (Deg)	Factor [dB(1/m)]	Measure Type/ Result
1	5825.92	Horizontal	97.487	122.23	NaN	NaN	3	27	40.22	Peak (PASS)

REMARKS:

1. Level (dBuV) = Reading (dBuV) + Factor (dB(1/m)).
2. Factor (dB(1/m)) = Antenna Factor(AF) (dB(1/m)) + Cable Loss (dB) +Preamplifier
3. Margin value = Emission level – Limit value.
4. The emission levels of other frequencies were less than 20dB margin agains

3.3 Conducted Emission Measurement

3.3.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

3.3.2 Test Instruments

Test Name: CE Voltage – AC Power Port			Test Date(s): 07/21/2022		
MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1U0337	LISN	Com-Power	LI-215A	10/07/2021	10/07/2022
1U0304	EMI Receiver	Narda	PMM 9010	10/07/2021	10/07/2022

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

NOTE:

3.3.3 Test Procedure

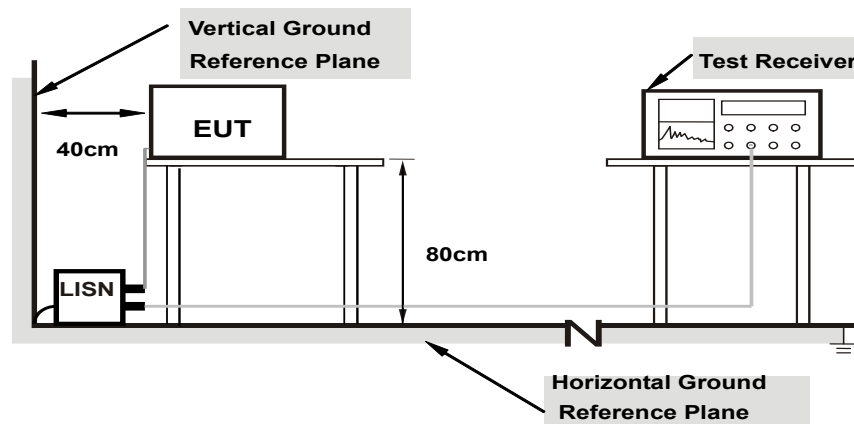
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.3.4 Deviation from Test Standard

No deviation.

3.3.5 Test Setup



Note: 1. Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo). Also, please refer to the attached file (Test Setup Photo) for the actual test configuration. The EUT and LISN are placed at least 80cm from other units and other metal planes.

3.3.6 EUT Operating Condition

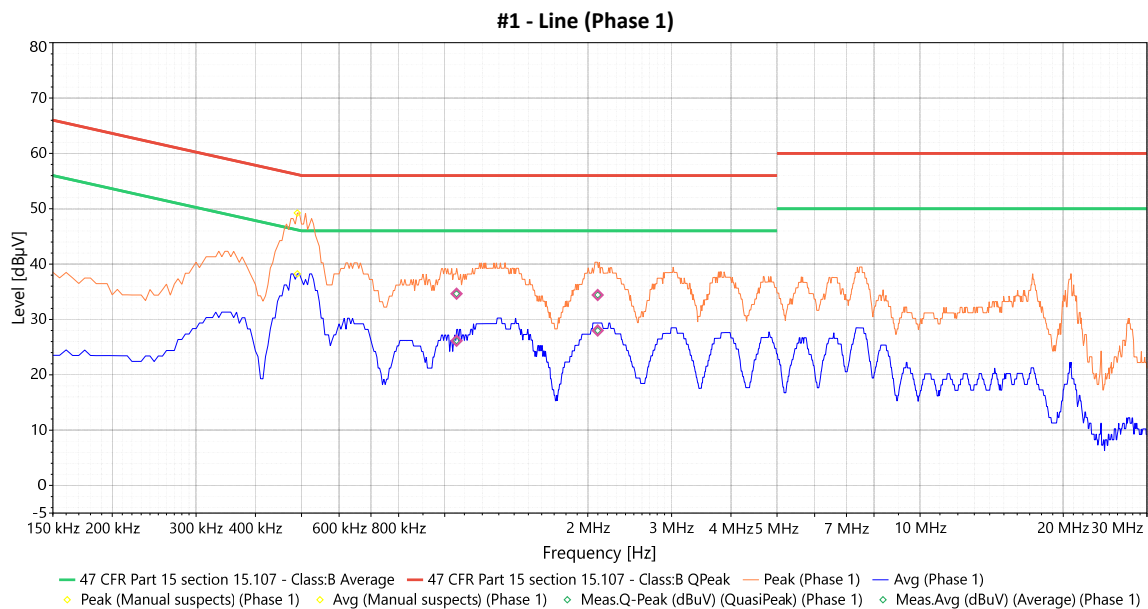
Same as 4.1.6.

3.3.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak / Average
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Conducted Emission									
No.	Frequency (MHz)	Polarization	Level QP[dB(uV/m)]	Level Average[dB(uV/m)]	Limit dB(uV/m)	Margin [dB]	Source	Factor [dB(1/m)]	Result
1	1.059081	Line	34.648	NaN	56	-21.352	QuasiPeak	0.21	Pass
2	1.059081	Line	NaN	26.148	46	-19.852	Average	0.21	Pass
3	2.098634	Line	34.433	NaN	56	-21.567	QuasiPeak	0.35	Pass
4	2.098634	Line	NaN	27.993	46	-18.007	Average	0.35	Pass

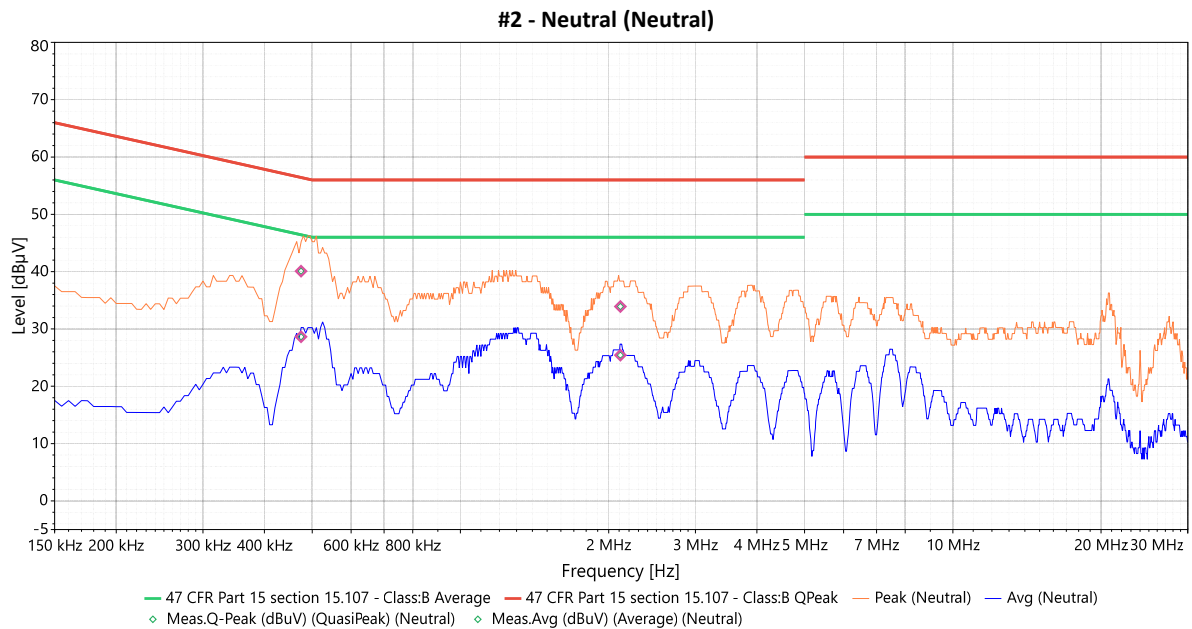
Test Plot:



Phase	Neutral (N)	Detector Function	Quasi-Peak / Average
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Conducted Emission									
No.	Frequency (MHz)	Polarization	Level QP[dB(uV/m)]	Level Average[dB(uV/m)]	Limit dB(uV/m)	Margin [dB]	Source	Factor [dB(1/m)]	Result
1	0.474545	Neutral	40.085	NaN	56.426	-16.341	QuasiPeak	0.25	Pass
2	0.474545	Neutral	NaN	28.635	46.426	-17.791	Average	0.25	Pass
3	2.113394	Neutral	33.915	NaN	56	-22.085	QuasiPeak	0.35	Pass
4	2.113394	Neutral	NaN	25.425	46	-20.575	Average	0.35	Pass

Test Plot:



3.4 Transmit Power Measurement

3.4.1 Limits of Transmit Power Measurement

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) (Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon)
		Fixed point-to-point Access Point	1 Watt (30 dBm)
		Indoor Access Point	1 Watt (30 dBm)
	√	Client device	250mW (24 dBm)
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B*
U-NII-3	√		1 Watt (30 dBm)

*B is the 26 dB emission bandwidth in megahertz

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;

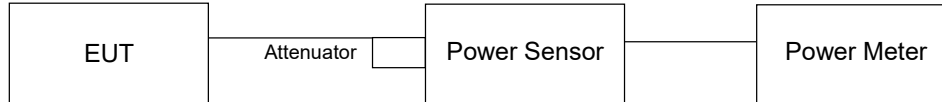
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

For power measurements on all other devices: Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

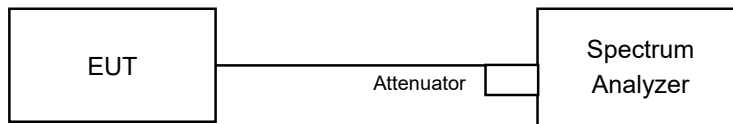
3.4.2 Test Setup

FOR POWER OUTPUT MEASUREMENT

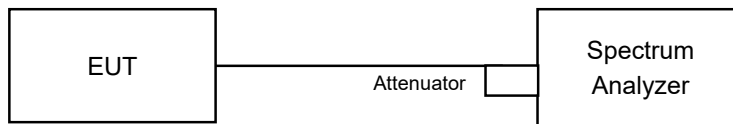
◆ Power Meter Measurement



◆ Spectrum Measurement



FOR 26dB OCCUPIED BANDWIDTH



3.4.3 Test Instruments

Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
N/A	Power Meter	ROHDE & SCHWARZ	NRQ6	05/05/2021	05/05/2022

3.4.4 Test Procedure

For Average Power Measurement

For 802.11a, 802.11n (HT20), 802.11n (HT40), 802.11ac (VHT20), 802.11ac (VHT40)

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 and set the detector to AVERAGE. Duty factor is not added to measured value.

For 802.11ac (VHT80)

- 1) Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- 2) Set sweep trigger to "free run".
- 3) Set RBW = 1 MHz.
- 4) Set VBW ≥ 3 MHz
- 5) Number of points in sweep ≥ 2 Span / RBW.
- 6) Sweep time ≤ (number of points in sweep) * T
- 7) Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- 8) Detector = RMS.
- 9) Trace mode = max hold.
- 10) Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

◆ Power Meter Measurement

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. Duty factor is not added to measured value.

◆ Spectrum Measurement

Follow FCC KDB 789033 UNII test procedure:

Method SA-1

1. Set span to encompass the entire emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
5. Sweep time = auto.
6. Set trigger to free run (duty cycle ≥ 98 percent)
7. Detector = RMS.
8. Trace average at least 100 traces in power averaging mode
9. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

Follow FCC KDB 789033 UNII test procedure:

Method SA-2

1. Set span to encompass the emission bandwidth (EBW) of the signal.
2. Set RBW = 1MHz.
3. Set the VBW $\geq 3 \times$ RBW.
4. Number of points in sweep $\geq 2 \text{ Span} / \text{RBW}$.
5. Sweep time = auto.
6. Detector = RMS.
7. Trace average at least 100 traces in power averaging mode
8. Compute power by integrating the spectrum across the 26 dB EBW of the signal.
9. Duty factor need added to measured value (duty cycle < 98 percent).

FOR 26dB OCCUPIED BANDWIDTH

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW $>$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

3.4.5 Deviation from Test Standard

No deviation.

3.4.6 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.4.7 Test Results

Output Power measurement result for UNII-1 Band

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)	Limit (dBm)	Result
Output Power	802.11a	5180	Low	6.53	24	Pass
		5200	Mid	6.57	24	Pass
		5240	High	6.77	24	Pass
	802.11n-HT20	5180	Low	6.73	24	Pass
		5200	Mid	6.71	24	Pass
		5240	High	6.85	24	Pass

Output Power measurement result for UNII-2 Band

Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)	Limit (dBm)	Result
Output Power	802.11a	5260	Low	6.46	24	Pass
		5280	Mid	6.63	24	Pass
		5320	High	6.77	24	Pass
		5500	Low	6.64	24	Pass
		5600	Mid	6.77	24	Pass
		5700	High	6.89	24	Pass
	802.11n-HT20	5260	Low	6.74	24	Pass
		5280	Mid	6.65	24	Pass
		5320	High	6.36	24	Pass
		5500	Low	6.59	24	Pass
		5600	Mid	6.61	24	Pass
		5700	High	6.68	24	Pass

Output Power measurement result for UNII-3 Band

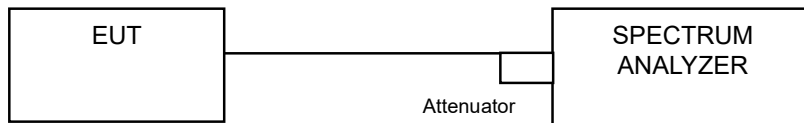
Type	Test mode	Freq (MHz)	CH	Conducted Power (dBm)	Limit (dBm)	Result
Output Power	802.11a	5745	Low	5.68	30	Pass
		5785	Mid	4.5	30	Pass
		5825	High	6.45	30	Pass
	802.11n-HT20	5745	Low	5.44	30	Pass
		5785	Mid	4.57	30	Pass
		5825	High	5.9	30	Pass

3.5 26dB Bandwidth & 6dB Bandwidth Measurement

3.5.1 Limits of 6 dB Bandwidth Measurement

The minimum of 6 dB Bandwidth Measurement is 0.5 MHz.

3.5.2 Test Setup



3.5.3 Test Instruments

MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2003	EMI Test Receiver	Keysight	N9030B	10/08/2021	10/08/2022

3.5.4 Test Procedure

26dB Emission bandwidth measurement procedure (Other than 5.725-5.85 GHz)

- Allow the trace to stabilize.
- Use the spectrum analyzer built-in measurement function to determine the 26dB BW.
Set RBW = around 1% of emission bandwidth
Set VBW > RBW
Detector = Peak
Trace mode = max hold
- Capture the plot.
- Repeat above steps for different test channel and other modulation type.

6 dB Minimum emission bandwidth measurement procedure

- Allow the trace to stabilize.
- Use the spectrum analyzer built-in measurement function to determine the 6dB BW.
Set RBW = 100 KHz
Set VBW $\geq 3 \times$ RBW
Detector = Peak
Trace mode = max hold
Sweep = auto couple
- Capture the plot.
- Repeat above steps for different test channel and other modulation type.

3.5.5 Test Results

26dB Bandwidth measurement result for UNII-1 Band

Type	Test mode	Freq (MHz)	CH	99% OBW(MHz)	26 dB OBW(MHz)
26dB BW	802.11a	5180	Low	16.376	19.204
		5200	Mid	16.389	19.446
		5240	High	16.477	20.169
	802.11n-HT20	5180	Low	17.621	20.631
		5200	Mid	17.577	20.274
		5240	High	17.589	20.584

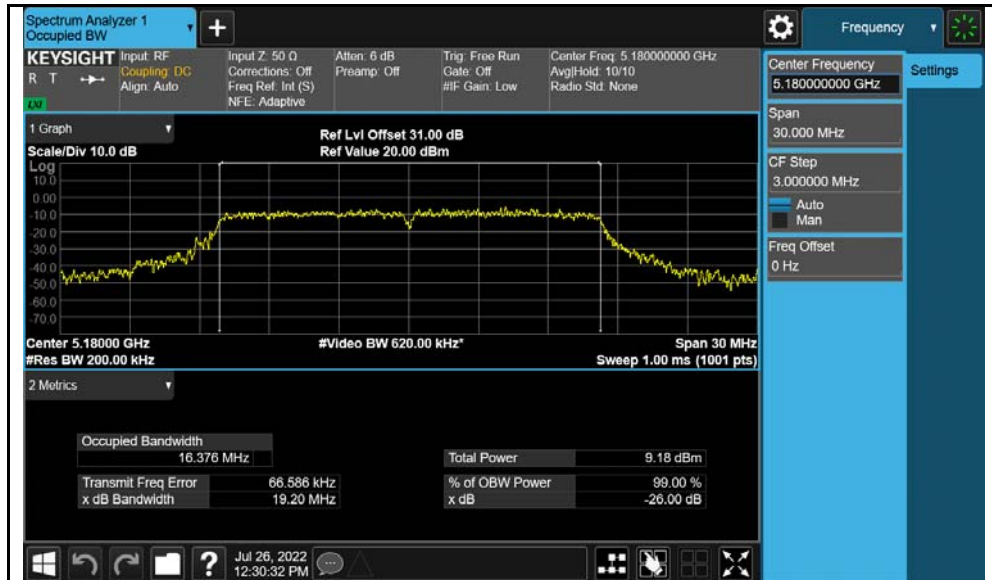
26dB Bandwidth measurement result for UNII-2 Band

Type	Test mode	Freq (MHz)	CH	99% OBW(MHz)	26 dB OBW(MHz)
26dB BW	802.11a	5260	Low	16.455	19.756
		5280	Mid	16.483	19.148
		5320	High	16.366	19.380
		5500	Low	16.402	19.965
		5600	Mid	16.409	19.974
		5700	High	16.389	19.472
	802.11n-HT20	5260	Low	17.598	20.670
		5280	Mid	17.588	20.684
		5320	High	17.536	20.545
		5500	Low	17.631	20.737
		5600	Mid	17.625	20.627
		5700	High	17.591	20.883

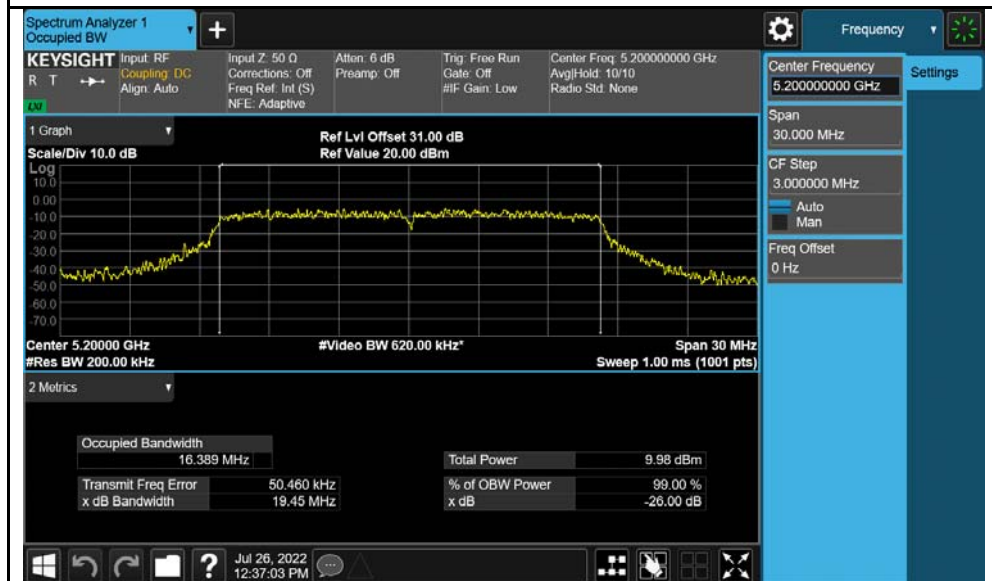
6dB Bandwidth measurement result for UNII-3 Band

Type	Test mode	Freq (MHz)	CH	99% OBW(MHz)	6 dB OBW(MHz)	Limit (MHz)	Result
6dB BW	802.11a	5745	Low	16.362	16.359	0.5	Pass
		5785	Mid	16.367	16.403	0.5	Pass
		5825	High	16.394	16.494	0.5	Pass
	802.11n-HT20	5745	Low	16.381	16.419	0.5	Pass
		5785	Mid	17.559	17.628	0.5	Pass
		5825	High	17.570	17.638	0.5	Pass

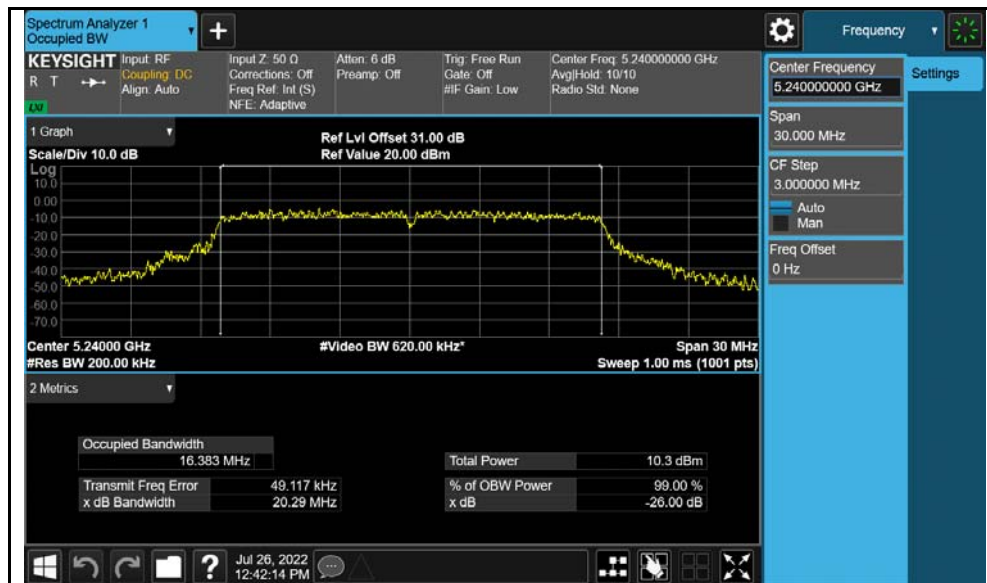
Occupied Bandwidth Test Plots UNII-1 Band



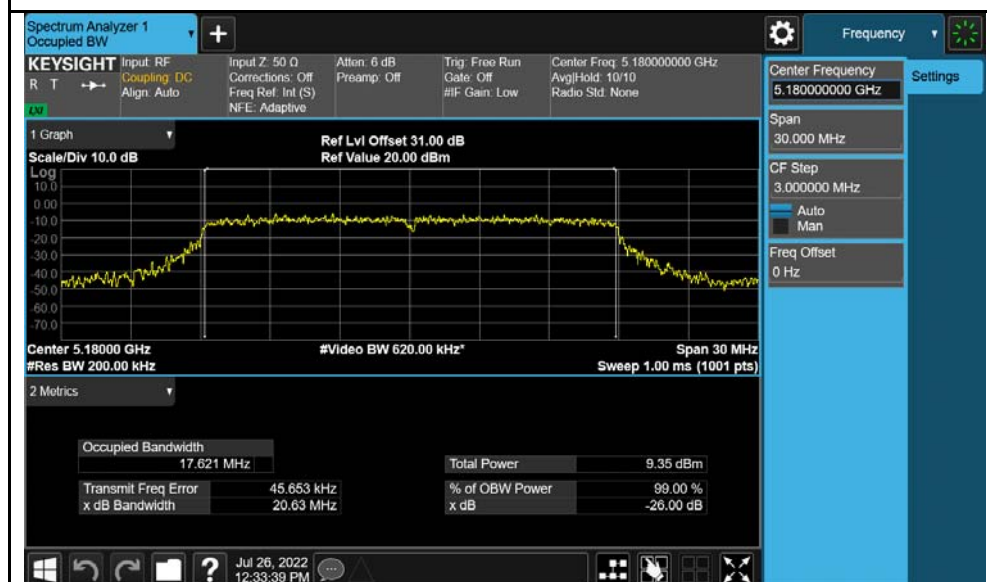
802.11a-5180MHz



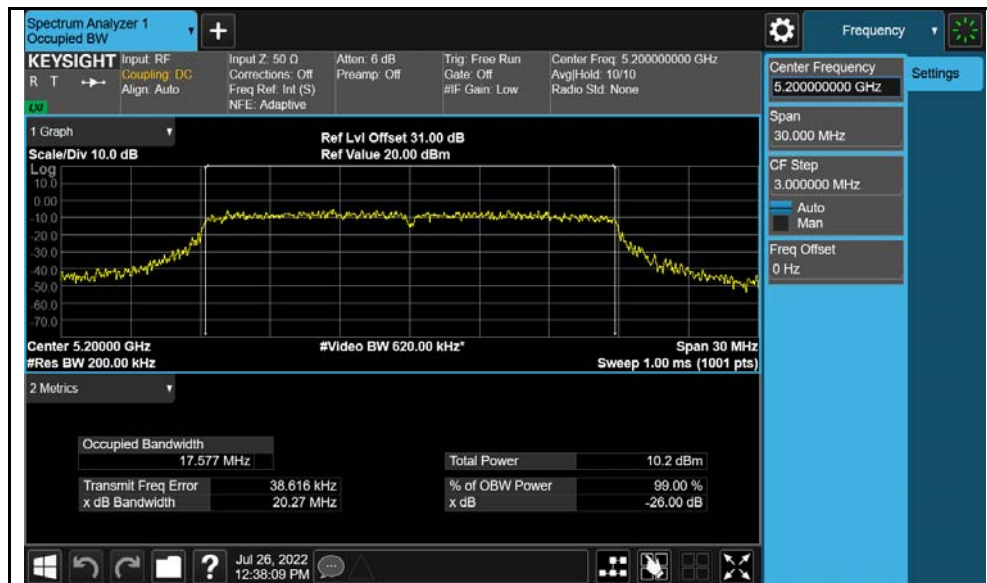
802.11a-5200MHz



802.11a-5240MHz



802.11n-HT20-5180MHz



802.11n-HT20-5200MHz



802.11n-HT20-5240MHz