

Sweep time = auto.

Trace mode = max hold.

Allow max hold to run for at least 50 traces if the transmitted signal is continuous or has at least 98 percent duty cycle. For lower duty cycles, increase the minimum number of traces by a factor of $1/x$, where x is the duty cycle. For example, use at least 200 traces if the duty cycle is 25 percent. (If a specific emission is demonstrated to be continuous—i.e., 100 percent duty cycle—rather than turning on and off with the transmit cycle, at least 50 traces shall be averaged).

■ Band edge measurements.

Unwanted band-edge emissions may be measured using either of the special band-edge measurement techniques (the marker-delta or integration methods) described below. Note that the marker-delta method is primarily a radiated measurement technique that requires the 99% occupied bandwidth edge to be within 2 MHz of the authorized band edge, whereas the integration method can be used in either a radiated or conducted measurement without any special requirement with regards to the displacement of the unwanted emission(s) relative to the authorized bandwidth.

Marker-Delta Method.

The marker-delta method, as described in ANSI C63.10-2020/Cor 1-2021, can be used to perform measurements of the radiated unwanted emissions level of emissions provided that the 99% occupied bandwidth of the fundamental is within 2 MHz of the authorized band-edge.

8.4.5 Test Results

Temperature : 21.1°C
Humidity : 55 %

ATM Pressure:: 1011 mbar
Test Engineer: Yi Xingpeng

- ☒ For Undesirable radiated Spurious Emission in U-NII – 1
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT1 as below:

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5180

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4212.18	V	46.74	-48.49	-27	21.49
8319.43	V	56.84	-38.39	-27	11.39
17976.9	V	65.81	-29.42	-27	2.42
4209.18	H	46.76	-48.47	-27	21.47
8271.42	H	56.75	-38.48	-27	11.48
17989.9	H	65.97	-29.26	-27	2.26

Test mode: 802.11n(20) Frequency(MHz): 5200

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4240.19	V	46.71	-48.52	-27	21.52
8334.43	V	55.97	-39.26	-27	12.26
18000	V	65.48	-29.75	-27	2.75
4221.18	H	46.63	-48.6	-27	21.6
8328.43	H	57.31	-37.92	-27	10.92
17962.9	H	66.84	-28.39	-27	1.39

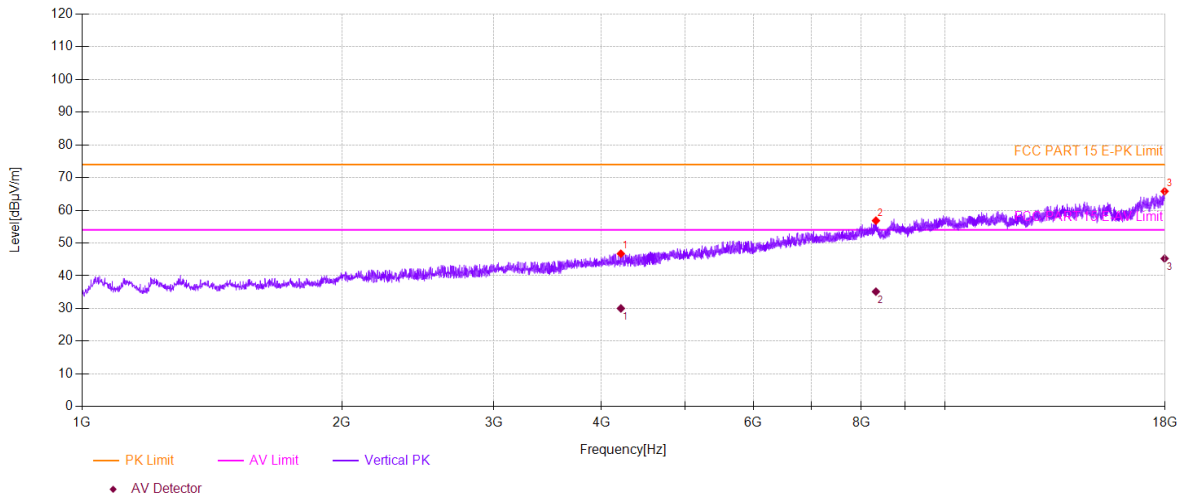
Test mode: 802.11n(20) Frequency(MHz): 5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4236.19	V	46.60	-48.63	-27	21.63
8317.43	V	56.88	-38.35	-27	11.35
17618.9	V	65.67	-29.56	-27	2.56
4216.18	H	46.68	-48.55	-27	21.55
8192.42	H	56.29	-38.94	-27	11.94
17989.9	H	65.32	-29.91	-27	2.91

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77
d is the measurement distance in 3 meters

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5180

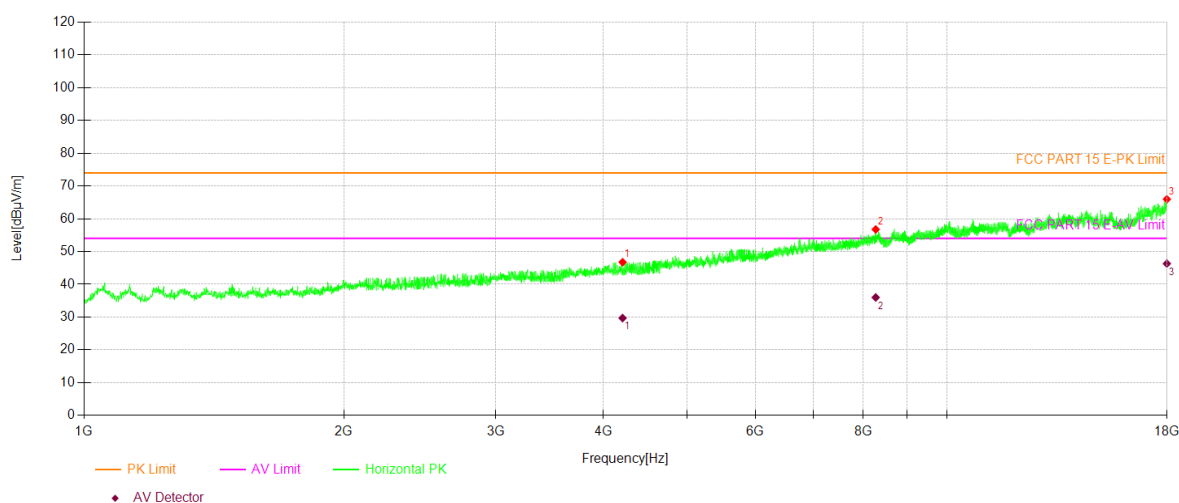


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4212.18	46.74	-11.96	74.00	27.26	PK	Vertical
2	8319.43	56.84	-2.42	74.00	17.16	PK	Vertical
3	17976.9	65.81	10.53	74.00	8.19	PK	Vertical

AV Final Data List

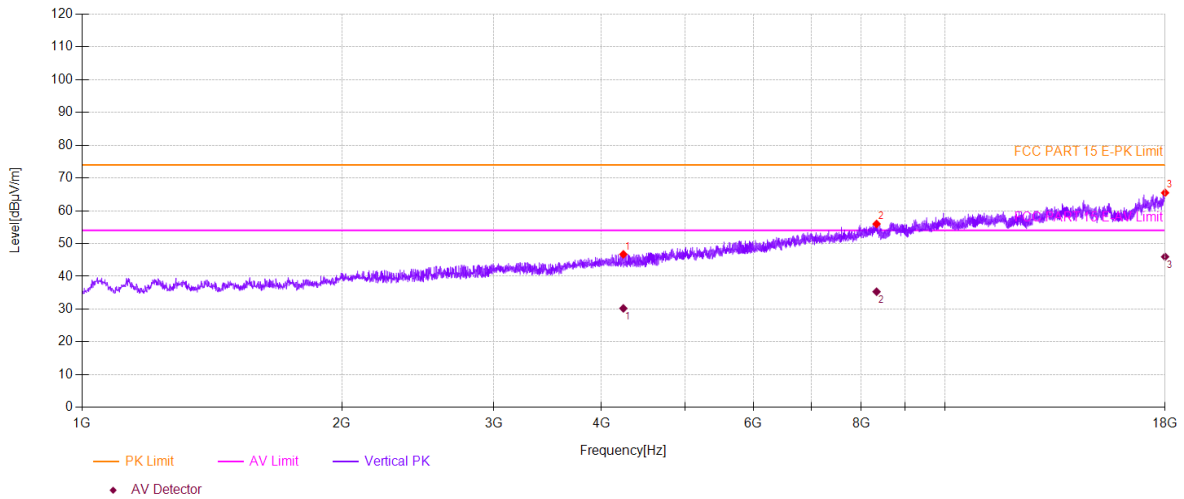
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4212.189	30.03	54.00	23.97	AV	Vertical
2	8319.430	35.15	54.00	18.85	AV	Vertical
3	17976.99	45.26	54.00	8.74	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4209.18	46.76	-11.96	74.00	27.24	PK	Horizontal
2	8271.42	56.75	-2.46	74.00	17.25	PK	Horizontal
3	17989.9	65.97	10.92	74.00	8.03	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4209.188	29.71	54.00	24.29	AV	Horizontal
2	8271.427	36.00	54.00	18.00	AV	Horizontal
3	17989.99	46.31	54.00	7.69	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5200

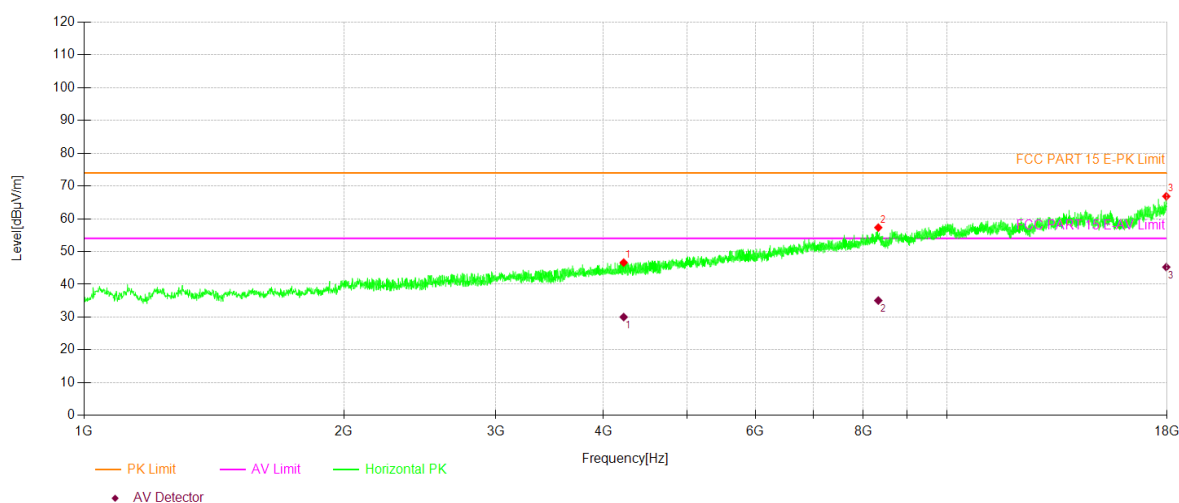


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4240.19	46.71	-11.87	74.00	27.29	PK	Vertical
2	8334.43	55.97	-2.47	74.00	18.03	PK	Vertical
3	18000	65.48	11.22	74.00	8.52	PK	Vertical

AV Final Data List

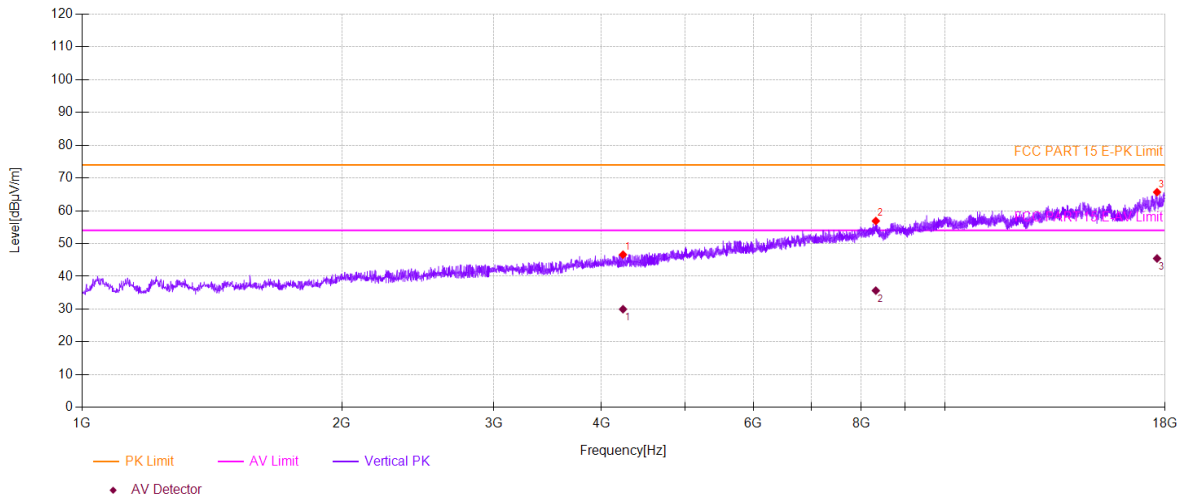
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4240.190	30.23	54.00	23.77	AV	Vertical
2	8334.431	35.31	54.00	18.69	AV	Vertical
3	18000	45.97	54.00	8.03	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4221.18	46.63	-11.93	74.00	27.37	PK	Horizontal
2	8328.43	57.31	-2.45	74.00	16.69	PK	Horizontal
3	17962.9	66.84	10.11	74.00	7.16	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4221.189	30.02	54.00	23.98	AV	Horizontal
2	8328.431	35.06	54.00	18.94	AV	Horizontal
3	17962.99	45.25	54.00	8.75	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5240

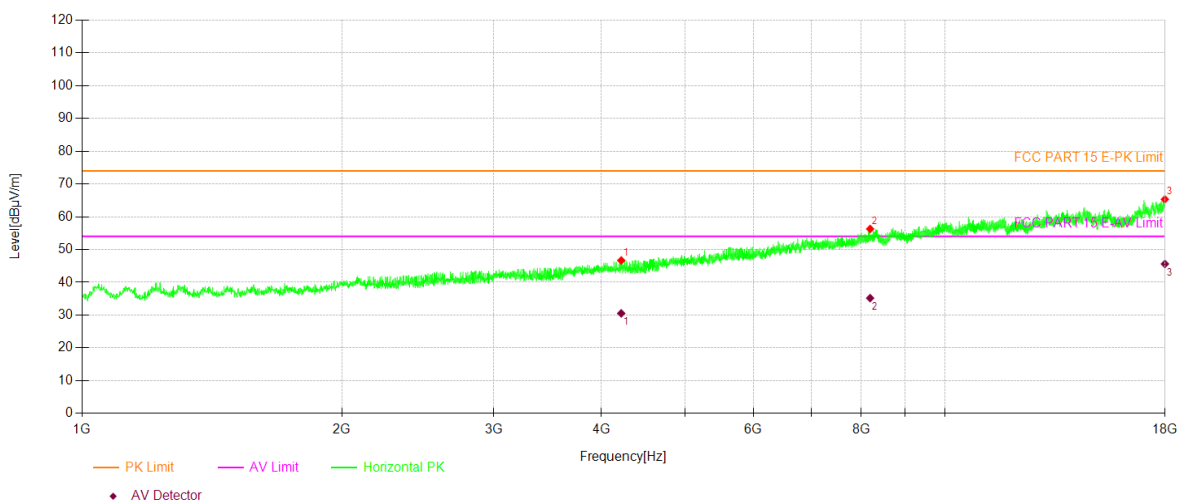


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4236.19	46.60	-11.88	74.00	27.40	PK	Vertical
2	8317.43	56.88	-2.42	74.00	17.12	PK	Vertical
3	17618.9	65.67	10.91	74.00	8.33	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4236.190	29.97	54.00	24.03	AV	Vertical
2	8317.430	35.64	54.00	18.36	AV	Vertical
3	17618.97	45.45	54.00	8.55	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4216.18	46.68	-11.94	74.00	27.32	PK	Horizontal
2	8192.42	56.29	-2.68	74.00	17.71	PK	Horizontal
3	17989.9	65.32	10.92	74.00	8.68	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4216.189	30.54	54.00	23.46	AV	Horizontal
2	8192.423	35.19	54.00	18.81	AV	Horizontal
3	17989.99	45.61	54.00	8.39	AV	Horizontal

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode: 802.11AX(HT20) Frequency(MHz): 5180

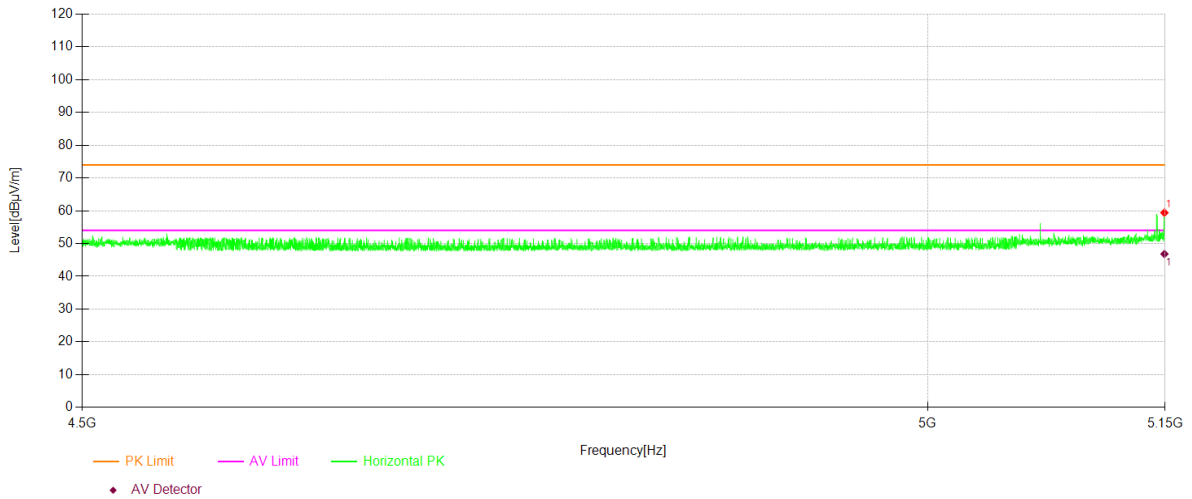
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5115.30	V	58.79	-36.44	-27	Pass
5149.59	H	59.40	-35.83	-27	Pass

Test mode: 802.11AX(HT20) Frequency(MHz): 5240

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5363.83	V	54.35	-40.88	-27	Pass
5357.34	H	54.10	-41.13	-27	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test Model U-NII - 1
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐802.11a ☒802.11AX(HT20) ☐802.11n(HT40)
☒5180 ☐5200 ☐5240 Ant.Pol H



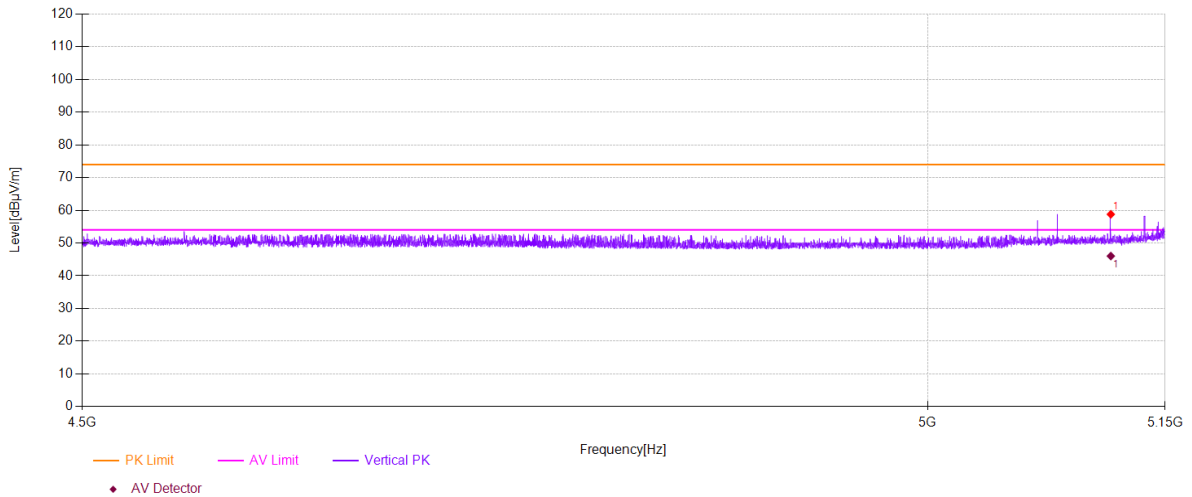
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5149.59	59.40	37.78	74.00	14.60	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5149.593	46.82	54.00	7.18	AV	Horizontal

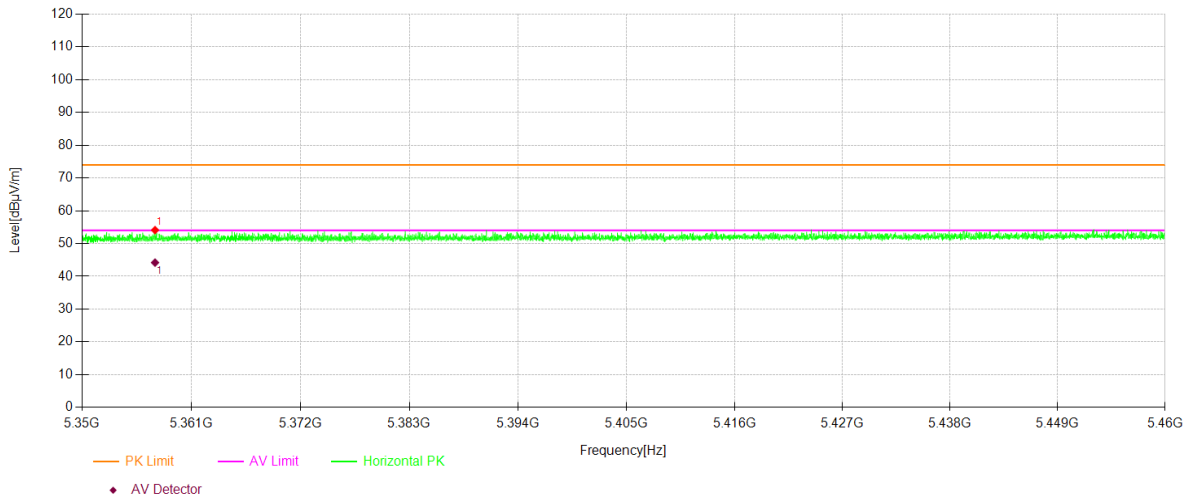
U-NII - 1							
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)						
	☐ 802.11a	☒ 802.11AX(HT20)	☐ 802.11n(HT40)				
	☒ 5180	☐ 5200	☐ 5240	Ant.Pol	V		



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5115.30	58.79	37.78	74.00	15.21	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5115.306	46.02	54.00	7.98	AV	Vertical

U-NII - 1							
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)						
	☐ 802.11a	☒ 802.11AX(HT20)	☐ 802.11n(HT40)				
	☐ 5180	☐ 5200	☒ 5240	Ant.Pol	H		



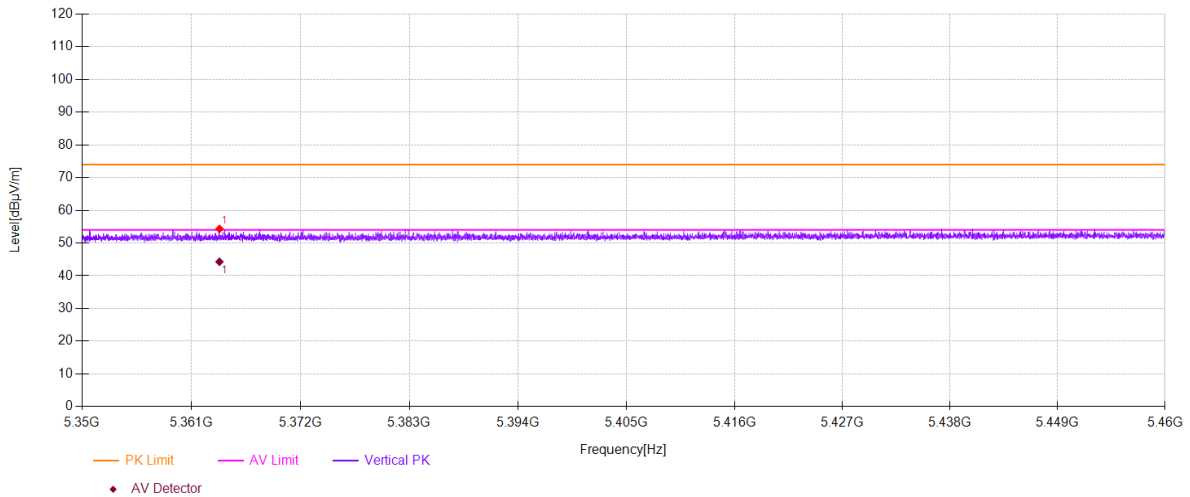
Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5357.34	54.10	37.99	74.00	19.90	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5357.342	44.19	54.00	9.81	AV	Horizontal

U-NII - 1

Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)

☐802.11a ☒802.11n(HT20) ☐802.11n(HT40)
☐5180 ☐5200 ☒5240 Ant. Pol V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5363.83	54.35	38.01	74.00	19.65	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5363.832	44.28	54.00	9.72	AV	Vertical

- ☒ For Undesirable radiated Spurious Emission in U-NII -2A
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT1 as below:

ANT1:

Test mode: 802.11AX(HT20) Frequency(MHz): 5260

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4201.188	V	46.64	-48.59	-27	21.59
8232.425	V	56.30	-38.93	-27	11.93
17988.99	V	66.00	-29.23	-27	2.23
4191.187	H	46.58	-48.65	-27	21.65
8344.432	H	56.11	-39.12	-27	12.12
17997.99	H	66.10	-29.13	-27	2.13

Test mode: 802.11AX(HT20) Frequency(MHz): 5280

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4199.188	V	46.66	-48.57	-27	21.57
8360.433	V	56.40	-38.83	-27	11.83
17979.99	V	65.60	-29.63	-27	2.63
4204.188	H	46.61	-48.62	-27	21.62
8230.425	H	56.44	-38.79	-27	11.79
17998.99	H	65.79	-29.44	-27	2.44

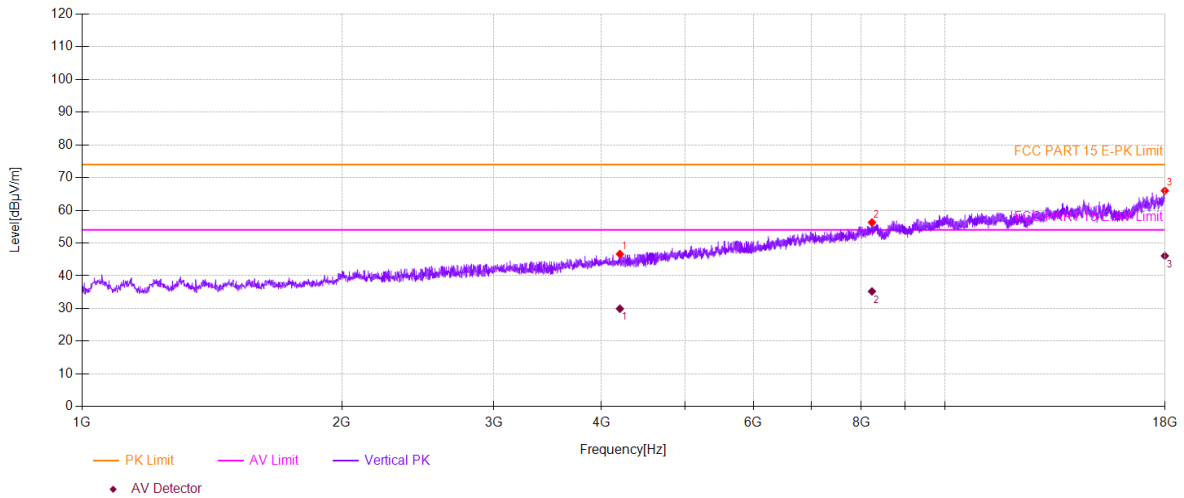
Test mode: 802.11AX(HT20) Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4141.184	V	46.81	-48.42	-27	21.42
8328.431	V	56.32	-38.91	-27	11.91
17996.99	V	66.11	-29.12	-27	2.12
4187.187	H	46.62	-48.61	-27	21.61
8325.430	H	56.21	-39.02	-27	12.02
17991.99	H	66.23	-29	-27	2

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5260

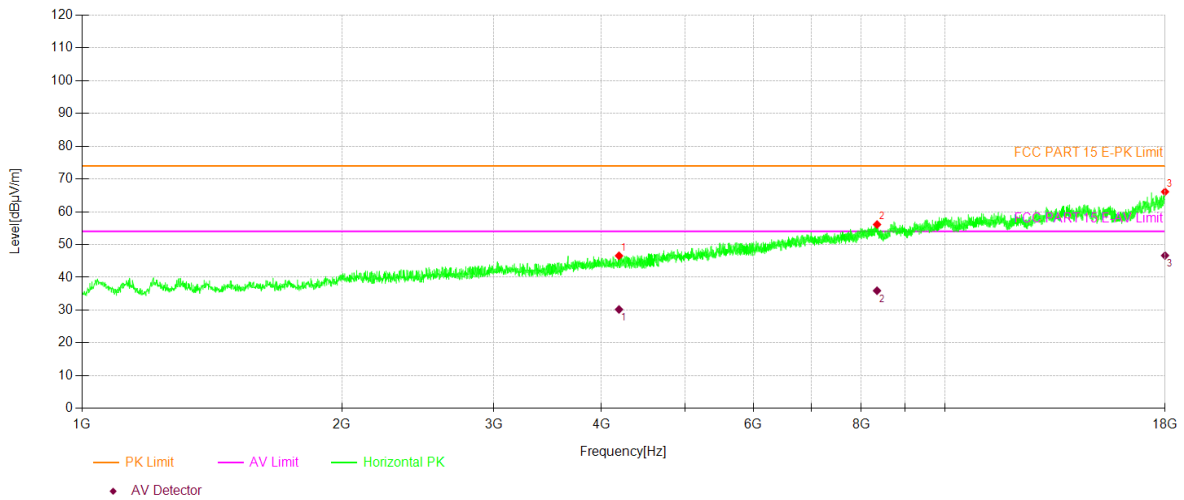


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4201.18	46.64	-11.99	74.00	27.36	PK	Vertical
2	8232.42	56.30	-2.56	74.00	17.70	PK	Vertical
3	17988.9	66.00	10.89	74.00	8.00	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4201.188	29.94	54.00	24.06	AV	Vertical
2	8232.425	35.23	54.00	18.77	AV	Vertical
3	17988.99	46.08	54.00	7.92	AV	Vertical



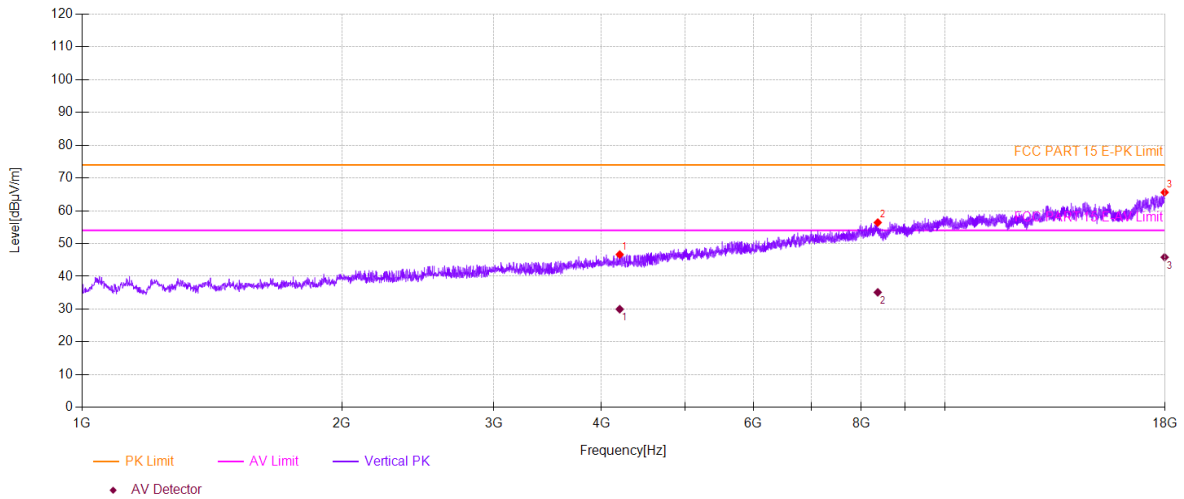
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4191.18	46.58	-12.05	74.00	27.42	PK	Horizontal
2	8344.43	56.11	-2.51	74.00	17.89	PK	Horizontal
3	17997.9	66.10	11.16	74.00	7.90	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4191.187	30.21	54.00	23.79	AV	Horizontal
2	8344.432	35.92	54.00	18.08	AV	Horizontal
3	17997.99	46.65	54.00	7.35	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5280

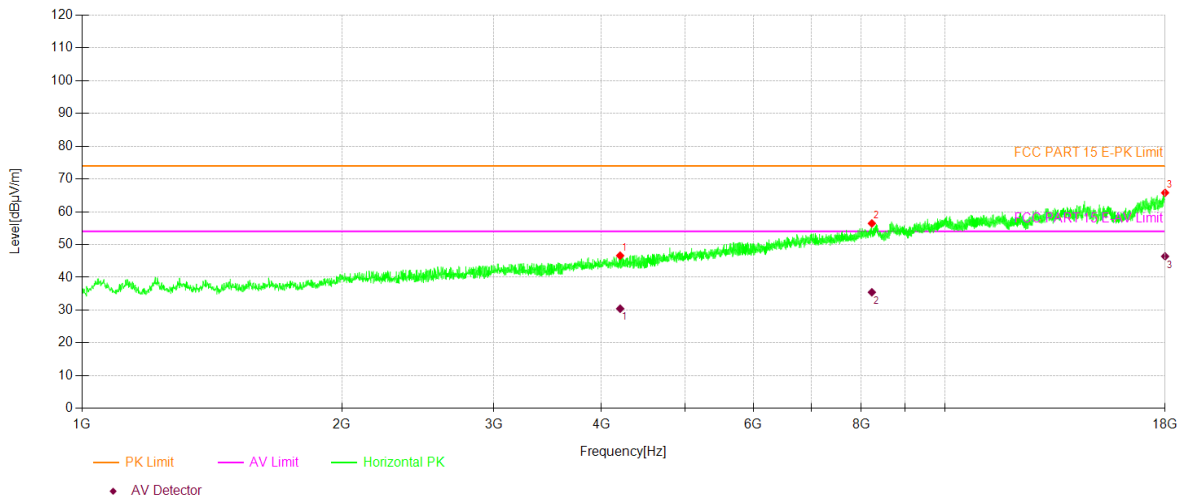


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4199.18	46.66	-11.99	74.00	27.34	PK	Vertical
2	8360.43	56.40	-2.58	74.00	17.60	PK	Vertical
3	17979.9	65.60	10.62	74.00	8.40	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4199.188	29.98	54.00	24.02	AV	Vertical
2	8360.433	35.12	54.00	18.88	AV	Vertical
3	17979.99	45.82	54.00	8.18	AV	Vertical



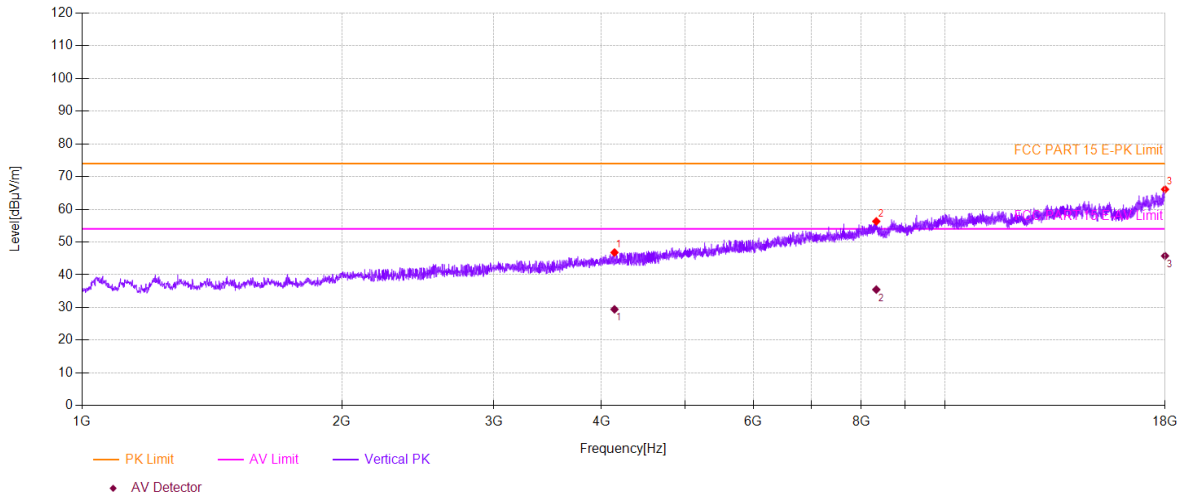
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4204.18	46.61	-11.98	74.00	27.39	PK	Horizontal
2	8230.42	56.44	-2.56	74.00	17.56	PK	Horizontal
3	17998.9	65.79	11.19	74.00	8.21	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4204.188	30.44	54.00	23.56	AV	Horizontal
2	8230.425	35.45	54.00	18.55	AV	Horizontal
3	17998.99	46.39	54.00	7.61	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5320

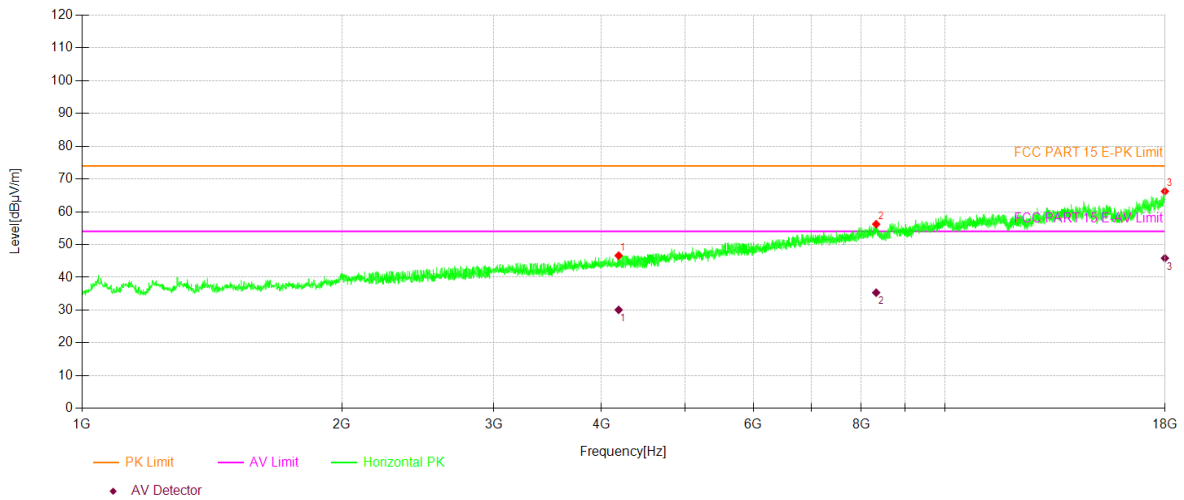


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4141.18	46.81	-12.37	74.00	27.19	PK	Vertical
2	8328.43	56.32	-2.45	74.00	17.68	PK	Vertical
3	17996.9	66.11	11.13	74.00	7.89	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4141.184	29.43	54.00	24.57	AV	Vertical
2	8328.431	35.48	54.00	18.52	AV	Vertical
3	17996.99	45.76	54.00	8.24	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4187.18	46.62	-12.07	74.00	27.38	PK	Horizontal
2	8325.43	56.21	-2.44	74.00	17.79	PK	Horizontal
3	17991.9	66.23	10.98	74.00	7.77	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4187.187	30.07	54.00	23.93	AV	Horizontal
2	8325.430	35.33	54.00	18.67	AV	Horizontal
3	17991.99	45.84	54.00	8.16	AV	Horizontal

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

- ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode: 802.11AX(HT20) Frequency(MHz): 5260

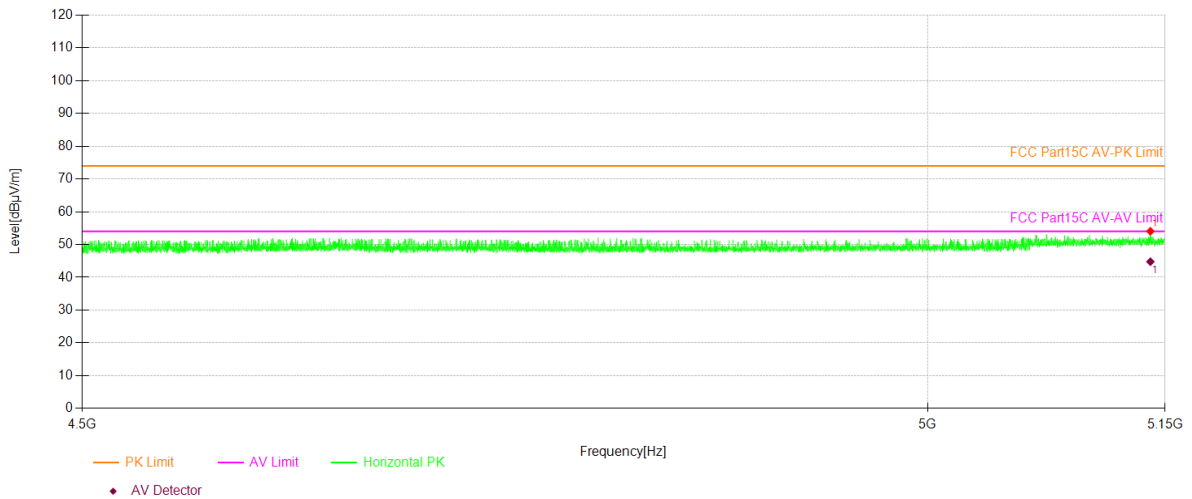
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5138.46	V	53.18	-42.05	-27	Pass
5140.57	H	54.05	-41.18	-27	Pass

Test mode: 802.11AX(HT20) Frequency(MHz): 5320

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5354.99	V	58.62	-36.61	-27	Pass
5352.42	H	59.82	-35.41	-27	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
(2) Emission Level= Reading Level+Correct Factor +Cable Loss.
(3) Correct Factor= Ant_F + Cab_L - Preamp
(4) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
d is the measurement distance in 3 meters

Test Model U-NII -2A
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐802.11a ☒802.11AX(HT20) ☐802.11 ac (VHT20)
☒5260 ☐5300 ☐5320 Ant.Pol H



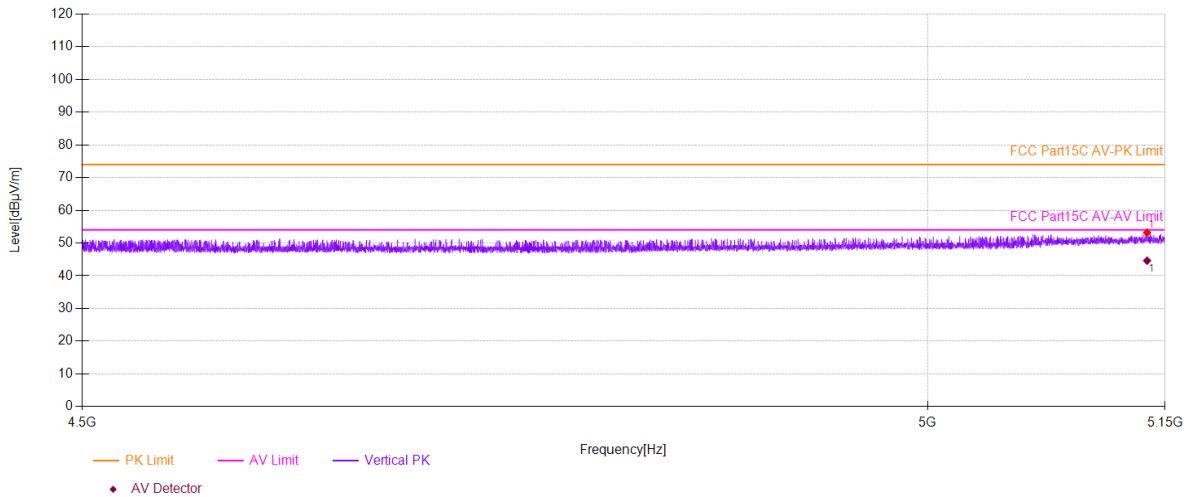
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5140.57	54.05	37.78	74.00	19.95	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5140.575	44.77	54.00	9.23	AV	Horizontal

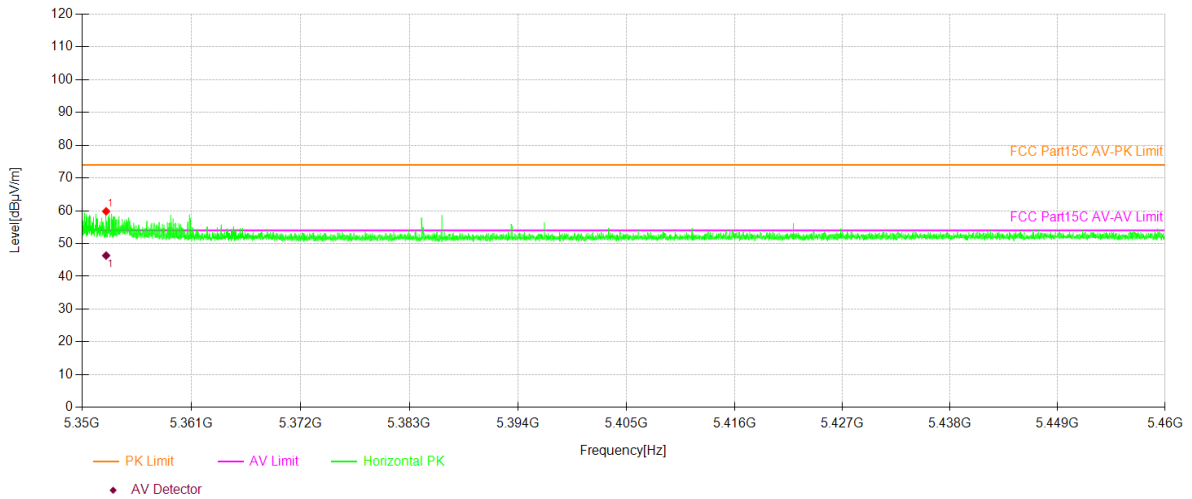
U-NII -2A			
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)		
	☐ 802.11a	☒ 802.11AX(HT20)	☐ 802.11 ac (VHT20)
	☒ 5260	☐ 5300	☐ 5320
	Ant.Pol		V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5138.46	53.18	37.78	74.00	20.82	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5138.462	44.62	54.00	9.38	AV	Vertical

Test Model U-NII -2A
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐802.11a ☒802.11AX(HT20) ☐802.11 ac (VHT20)
☐5260 ☐5300 ☒5320 Ant.Pol H



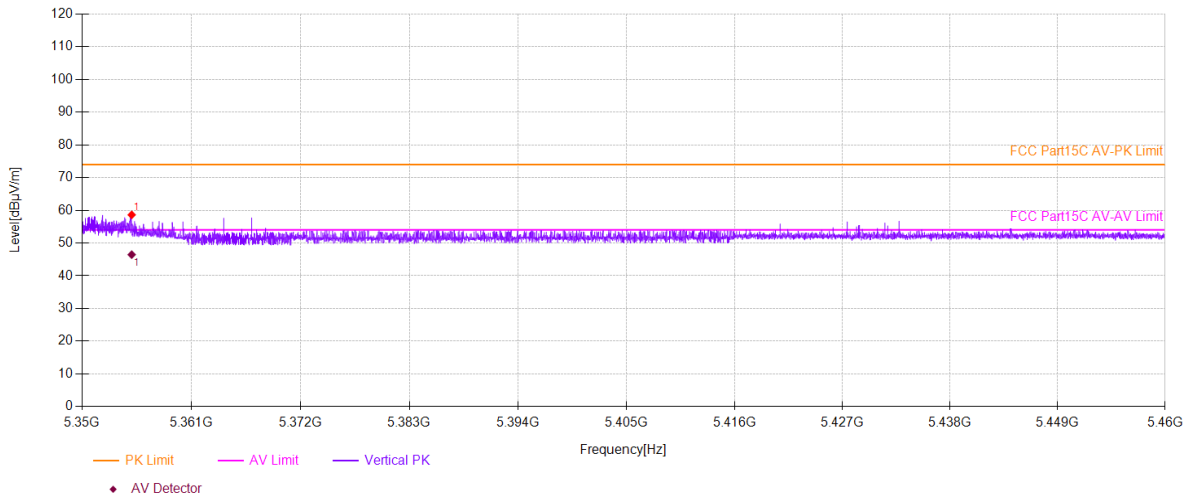
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5352.42	59.82	37.98	74.00	14.18	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5352.42	46.33	54.00	7.67	AV	Horizontal

U-NII -2A							
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)						
	☐ 802.11a	☒ 802.11AX(HT20)	☐ 802.11 ac (VHT20)				
	☐ 5260	☐ 5300	☒ 5320	Ant.Pol		V	



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5354.99	58.62	37.99	74.00	15.38	PK	Vertical

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5354.991	46.46	54.00	7.54	AV	Vertical

- ☒ For Undesirable radiated Spurious Emission in U-NII -2C
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT1 as below:

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5500

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4172.186	V	46.66	-48.57	-27	21.57
8330.431	V	56.48	-38.75	-27	11.75
17995.99	V	65.61	-29.62	-27	2.62
4149.185	H	46.64	-48.59	-27	21.59
8317.430	H	56.95	-38.28	-27	11.28
17972.99	H	65.81	-29.42	-27	2.42

Test mode: 802.11n(20) Frequency(MHz): 5580

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4160.185	V	46.59	-48.64	-27	21.64
8316.430	V	56.60	-38.63	-27	11.63
17945.99	V	65.72	-29.51	-27	2.51
4237.190	H	46.70	-48.53	-27	21.53
8313.430	H	56.47	-38.76	-27	11.76
17982.99	H	66.07	-29.16	-27	2.16

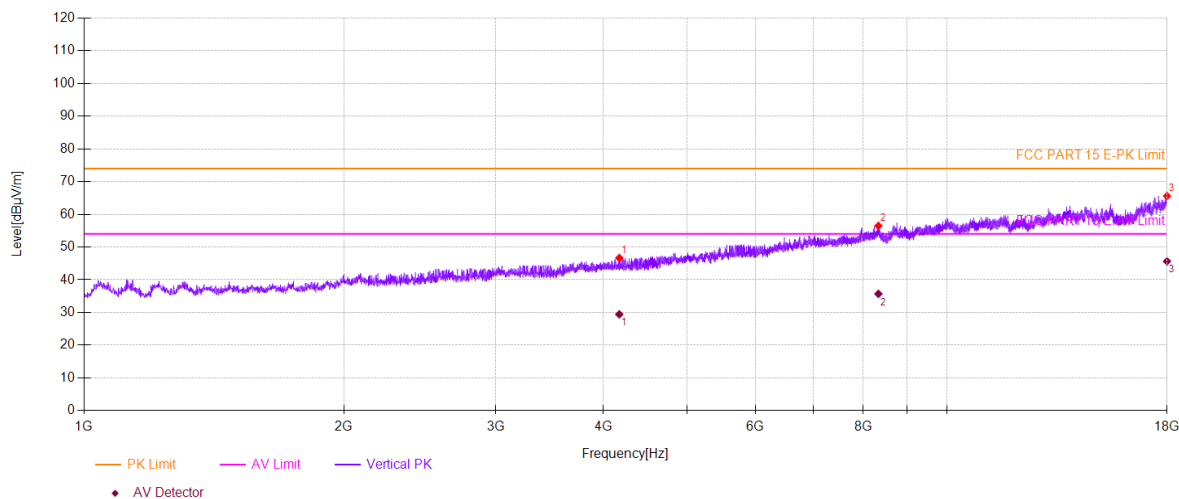
Test mode: 802.11n(20) Frequency(MHz): 5700

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4278.192	V	46.59	-48.64	-27	21.64
8311.430	V	55.95	-39.28	-27	12.28
17964.99	V	65.57	-29.66	-27	2.66
4126.183	H	46.70	-48.53	-27	21.53
8334.431	H	55.85	-39.38	-27	12.38
17943.99	H	65.45	-29.78	-27	2.78

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5500

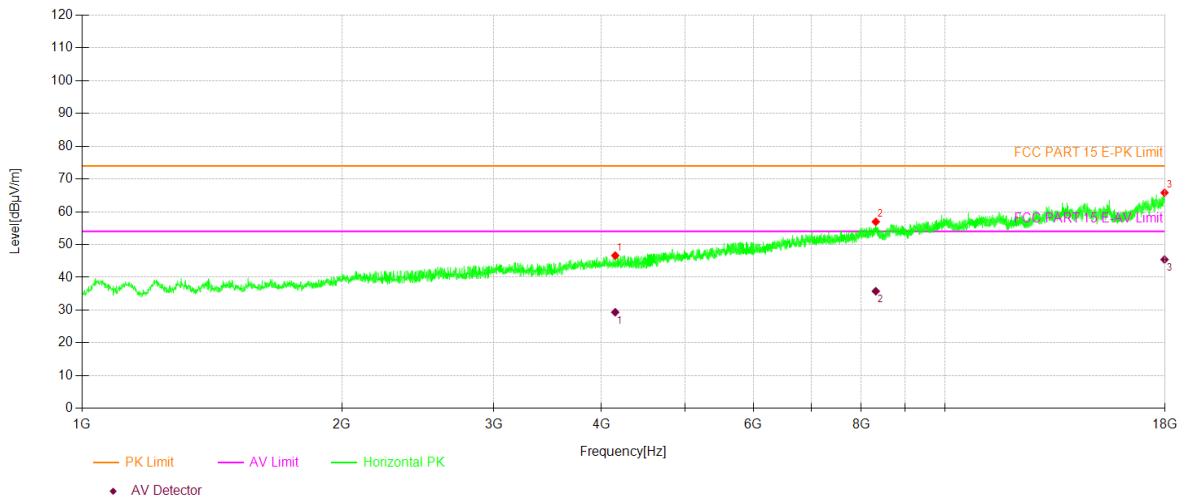


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4172.18	46.66	-12.16	74.00	27.34	PK	Vertical
2	8330.43	56.48	-2.46	74.00	17.52	PK	Vertical
3	17995.9	65.61	11.10	74.00	8.39	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4172.186	29.44	54.00	24.56	AV	Vertical
2	8330.431	35.70	54.00	18.30	AV	Vertical
3	17995.99	45.64	54.00	8.36	AV	Vertical



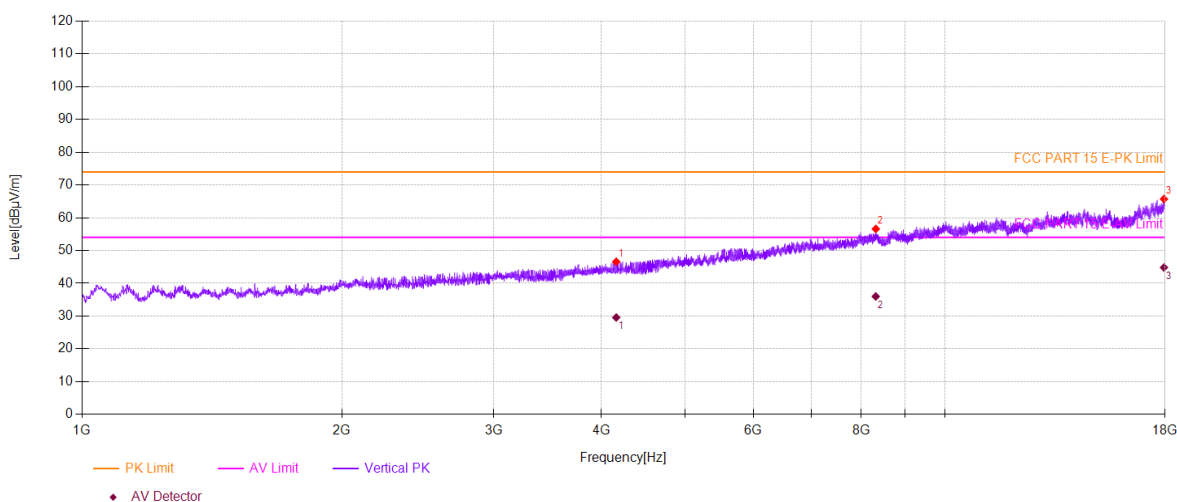
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4149.18	46.64	-12.29	74.00	27.36	PK	Horizontal
2	8317.43	56.95	-2.42	74.00	17.05	PK	Horizontal
3	17972.9	65.81	10.41	74.00	8.19	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4149.185	29.36	54.00	24.64	AV	Horizontal
2	8317.430	35.76	54.00	18.24	AV	Horizontal
3	17972.99	45.43	54.00	8.57	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5580

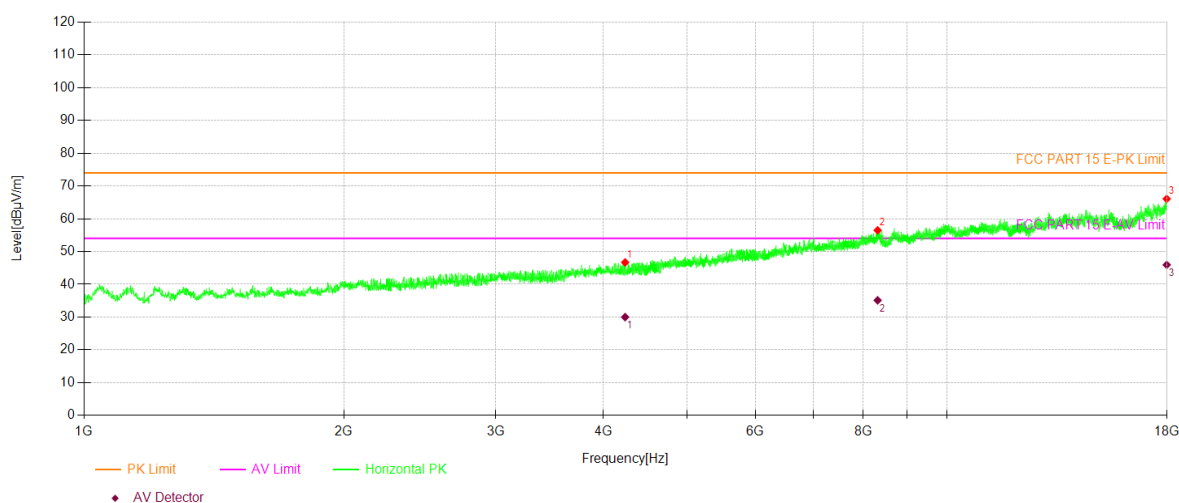


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4160.18	46.59	-12.23	74.00	27.41	PK	Vertical
2	8316.43	56.60	-2.42	74.00	17.40	PK	Vertical
3	17945.9	65.72	9.60	74.00	8.28	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4160.185	29.58	54.00	24.42	AV	Vertical
2	8316.430	36.00	54.00	18.00	AV	Vertical
3	17945.99	44.83	54.00	9.17	AV	Vertical



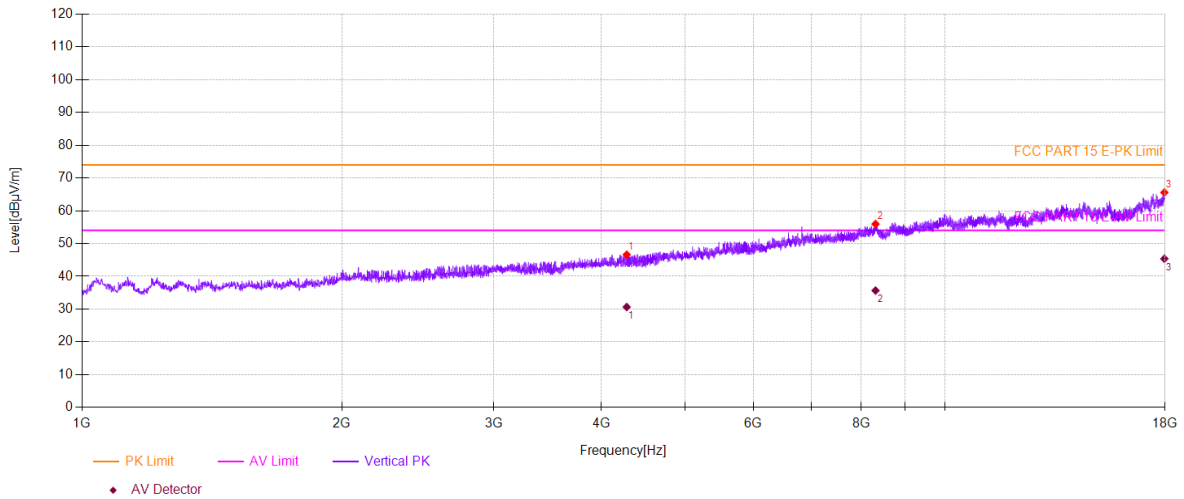
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4237.19	46.70	-11.88	74.00	27.30	PK	Horizontal
2	8313.43	56.47	-2.40	74.00	17.53	PK	Horizontal
3	17982.9	66.07	10.71	74.00	7.93	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4237.190	30.00	54.00	24.00	AV	Horizontal
2	8313.430	35.12	54.00	18.88	AV	Horizontal
3	17982.99	45.95	54.00	8.05	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5700

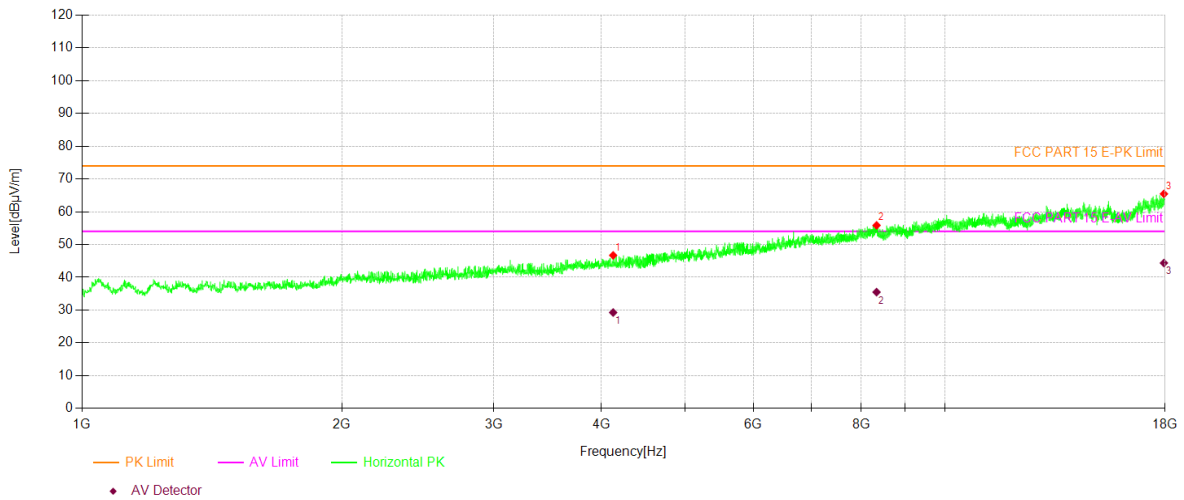


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4278.19	46.59	-11.75	74.00	27.41	PK	Vertical
2	8311.43	55.95	-2.40	74.00	18.05	PK	Vertical
3	17964.9	65.57	10.17	74.00	8.43	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4278.192	30.65	54.00	23.35	AV	Vertical
2	8311.430	35.67	54.00	18.33	AV	Vertical
3	17964.99	45.36	54.00	8.64	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4126.18	46.70	-12.49	74.00	27.30	PK	Horizontal
2	8334.43	55.85	-2.47	74.00	18.15	PK	Horizontal
3	17943.9	65.45	9.54	74.00	8.55	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4126.183	29.27	54.00	24.73	AV	Horizontal
2	8334.431	35.49	54.00	18.51	AV	Horizontal
3	17943.99	44.37	54.00	9.63	AV	Horizontal

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

● ☒ Undesirable radiated Undesirable radiated Spurious Emission in Band Edge

Test mode: 802.11AX(HT20) Frequency(MHz): 5500

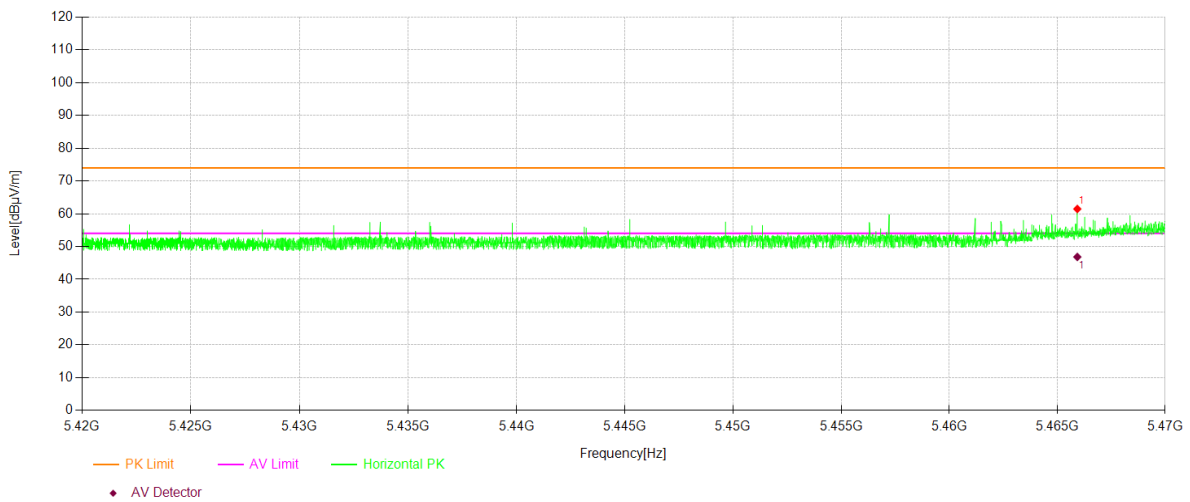
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5466.65	V	65.30	-29.93	-27	Pass
5465.93	H	61.47	-33.76	-27	Pass

Test mode: 802.11AX(HT20) Frequency(MHz): 5700

Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5727.28	V	66.30	-28.93	-27	Pass
5727.94	H	64.71	-30.52	-27	Pass

Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test Model U-NII -2C
Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)
☐802.11a ☒802.11AX(HT20) ☐802.11 ac (VHT20)
☒5500 ☐5580 ☐5700 Ant.Pol H



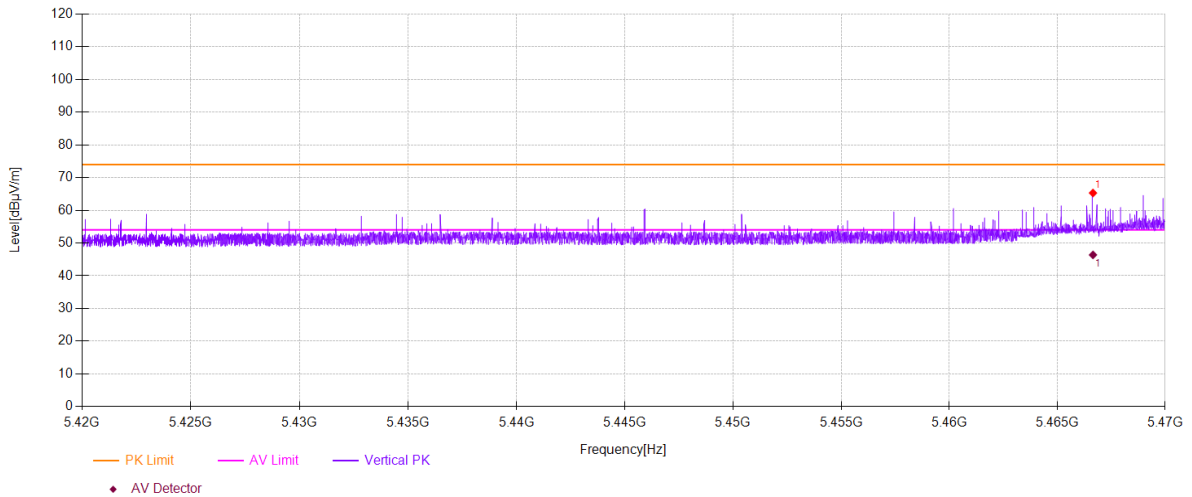
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5465.93	61.47	38.42	74.00	12.53	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5465.931	46.83	54.00	7.17	AV	Horizontal

U-NII -2C			
Test Model	Undesirable radiated Spurious Emission in Restricted Band (5100-5150MHz)		
	☐ 802.11a	☒ 802.11AX(HT20)	☐ 802.11 ac (VHT20)
	☒ 5500	☐ 5580	☐ 5700
	Ant.Pol		V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5466.65	65.30	38.42	74.00	8.70	PK	Vertical

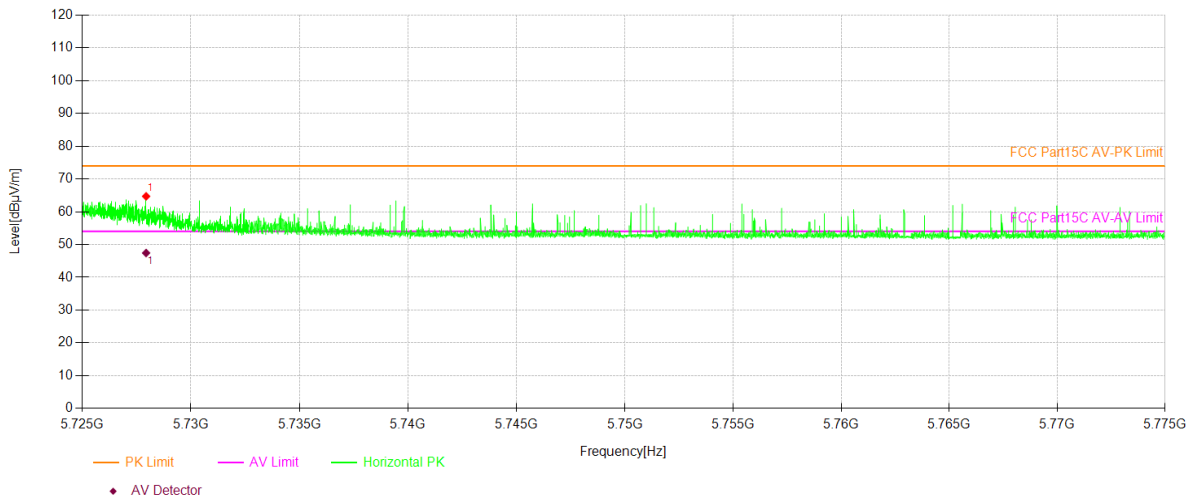
AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5466.656	46.38	54.00	7.62	AV	Vertical

U-NII -2C

Test Model Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)

☐802.11a ☒802.11AX(HT20) ☐802.11 ac (VHT20)

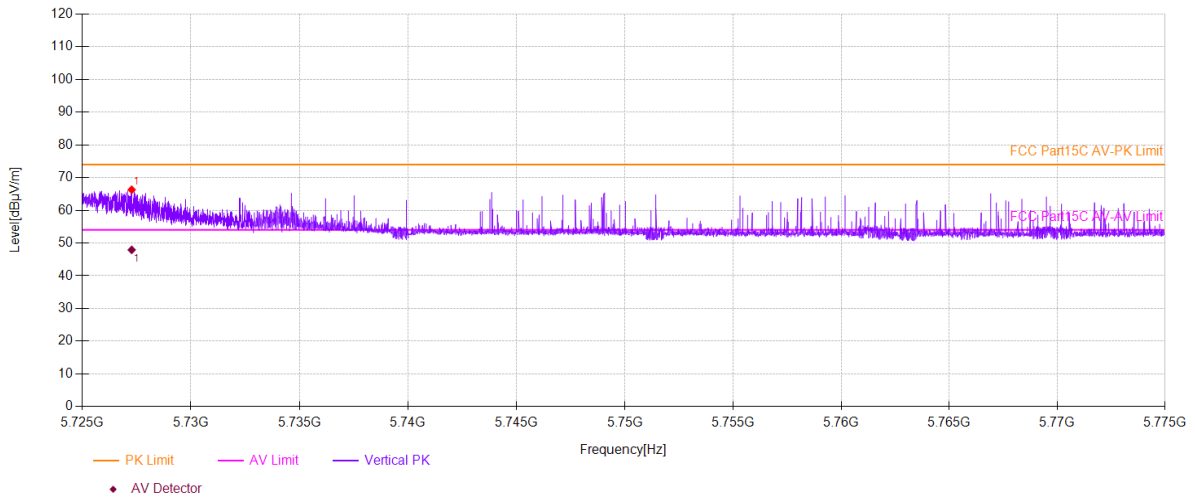
☐5500 ☐5580 ☒5700 Ant.Pol H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5727.94	64.71	39.05	74.00	9.29	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5727.943	47.42	54.00	6.58	AV	Horizontal

Test Model U-NII -2C
Undesirable radiated Spurious Emission in Restricted Band (5350-5400MHz)
☐802.11a ☒802.11AX(HT20) ☐802.11 ac (VHT20)
☐5500 ☐5580 ☒5700 Ant.Pol V



Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5727.28	66.30	39.04	74.00	7.70	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	5727.281	47.91	54.00	6.09	AV	Vertical

- ☒ For Undesirable radiated Spurious Emission in U-NII -3
 - ☒ Undesirable radiated Spurious Emission Above 1GHz (1GHz to 40GHz)
- All of the configurations or modes are tested, the data of the worst case is recorded in the report.
Highest gain of each antenna and highest output power is ANT1 as below:

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5745

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4233.190	V	46.72	-48.51	-27	21.51
7971.410	V	56.34	-38.89	-27	11.89
17991.99	V	66.11	-29.12	-27	2.12
4147.185	H	46.74	-48.49	-27	21.49
8347.432	H	55.93	-39.3	-27	12.3
17978.99	H	66.01	-29.22	-27	2.22

Test mode: 802.11n(20) Frequency(MHz): 5785

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4237.190	V	46.56	-48.67	-27	21.67
8354.432	V	57.14	-38.09	-27	11.09
17973.99	V	65.45	-29.78	-27	2.78
4186.187	H	46.66	-48.57	-27	21.57
8079.416	H	56.07	-39.16	-27	12.16
17979.99	H	65.98	-29.25	-27	2.25

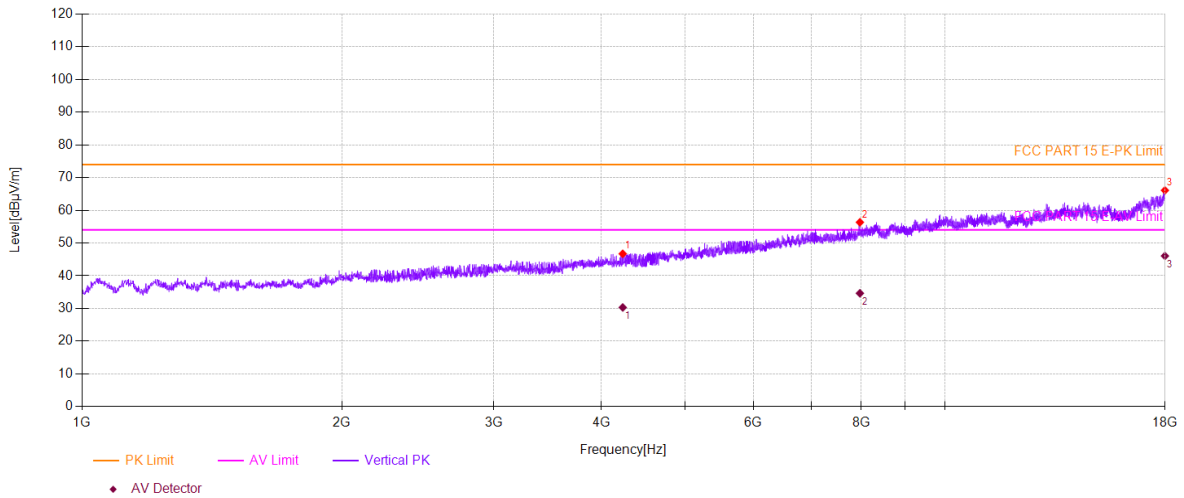
Test mode: 802.11n(20) Frequency(MHz): 5825

Freq. (MHz)	Ant.Pol. H/V	Field Strength (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Over(dB)
4123.183	V	46.64	-48.59	-27	21.59
8315.430	V	56.19	-39.04	-27	12.04
17996.99	V	65.77	-29.46	-27	2.46
4244.190	H	46.60	-48.63	-27	21.63
8352.432	H	55.86	-39.37	-27	12.37
17965.99	H	65.97	-29.26	-27	2.26

Note: (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.
 (3) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

ANT1:

Test mode: 802.11n(20) Frequency(MHz): 5745

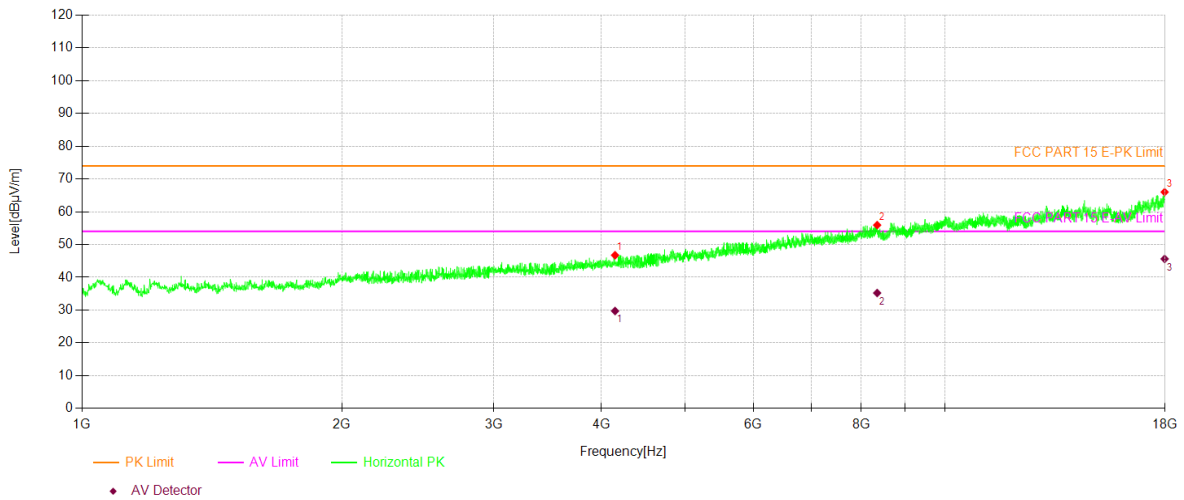


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4233.19	46.72	-11.89	74.00	27.28	PK	Vertical
2	7971.41	56.34	-3.55	74.00	17.66	PK	Vertical
3	17991.9	66.11	10.98	74.00	7.89	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4233.190	30.32	54.00	23.68	AV	Vertical
2	7971.410	34.65	54.00	19.35	AV	Vertical
3	17991.99	46.06	54.00	7.94	AV	Vertical



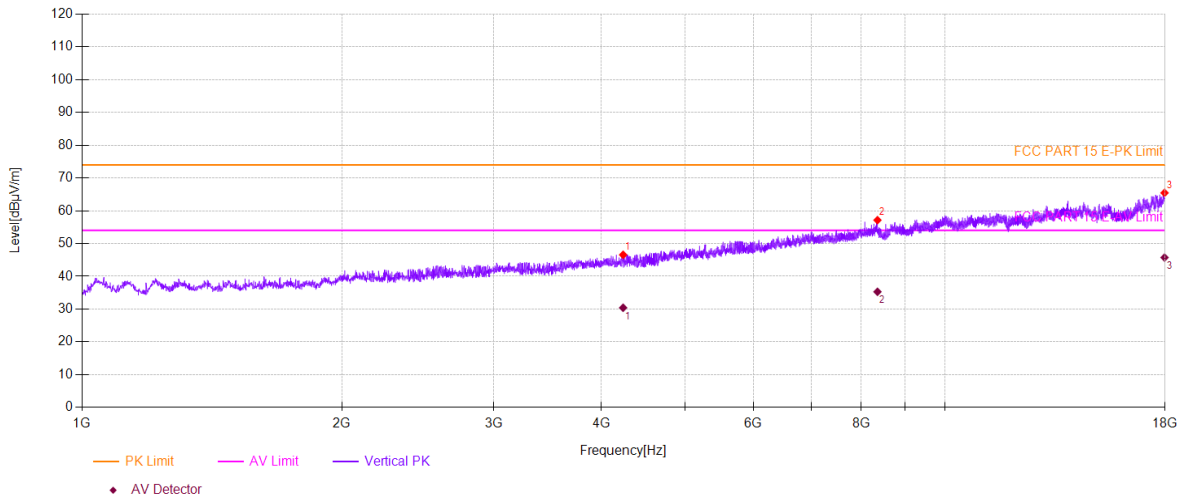
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4147.18	46.74	-12.31	74.00	27.26	PK	Horizontal
2	8347.43	55.93	-2.52	74.00	18.07	PK	Horizontal
3	17978.9	66.01	10.59	74.00	7.99	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4147.185	29.73	54.00	24.27	AV	Horizontal
2	8347.432	35.23	54.00	18.77	AV	Horizontal
3	17978.99	45.63	54.00	8.37	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5785

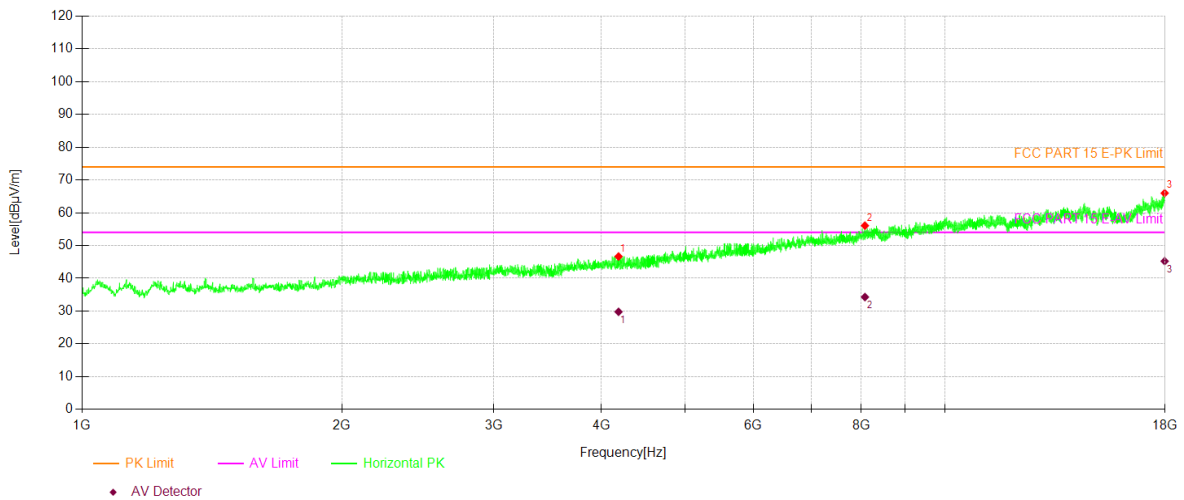


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4237.19	46.56	-11.88	74.00	27.44	PK	Vertical
2	8354.43	57.14	-2.55	74.00	16.86	PK	Vertical
3	17973.9	65.45	10.44	74.00	8.55	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4237.190	30.42	54.00	23.58	AV	Vertical
2	8354.432	35.28	54.00	18.72	AV	Vertical
3	17973.99	45.74	54.00	8.26	AV	Vertical



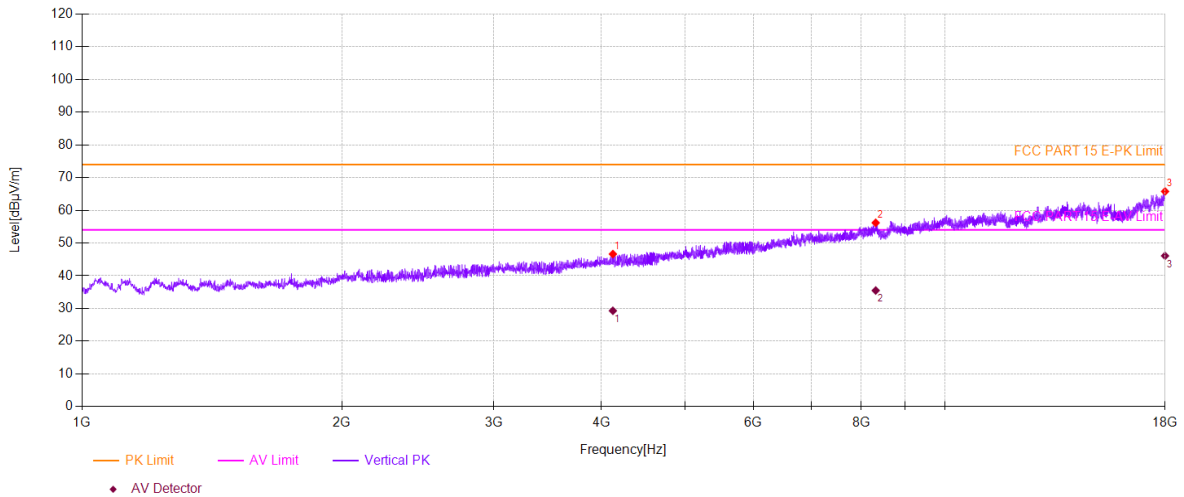
Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4186.18	46.66	-12.08	74.00	27.34	PK	Horizontal
2	8079.41	56.07	-3.26	74.00	17.93	PK	Horizontal
3	17979.9	65.98	10.62	74.00	8.02	PK	Horizontal

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4186.187	29.79	54.00	24.21	AV	Horizontal
2	8079.416	34.29	54.00	19.71	AV	Horizontal
3	17979.99	45.22	54.00	8.78	AV	Horizontal

Test mode: 802.11n(20) Frequency(MHz): 5825

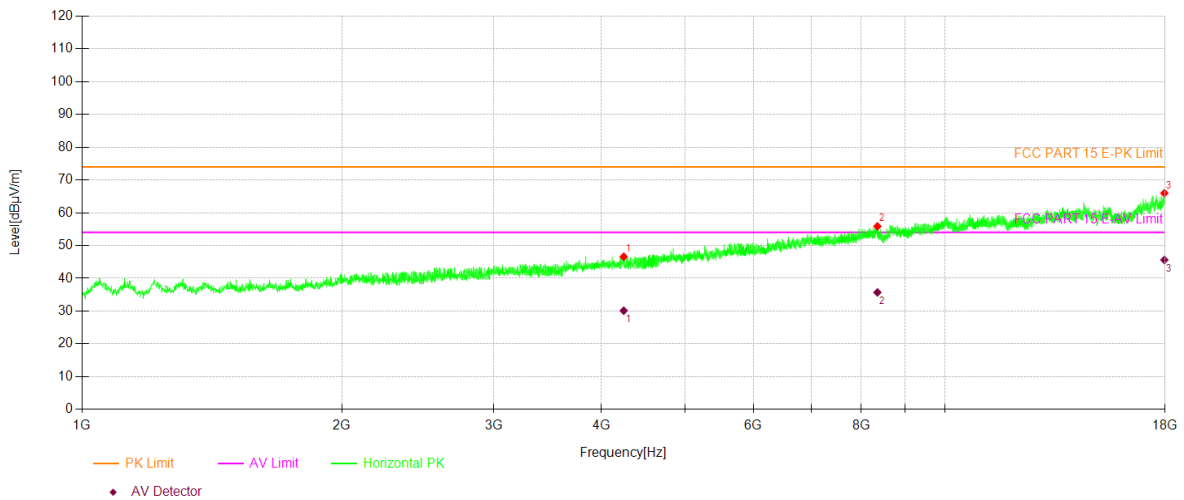


Suspected Data List

NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4123.18	46.64	-12.51	74.00	27.36	PK	Vertical
2	8315.43	56.19	-2.41	74.00	17.81	PK	Vertical
3	17996.9	65.77	11.13	74.00	8.23	PK	Vertical

AV Final Data List

NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4123.183	29.31	54.00	24.69	AV	Vertical
2	8315.430	35.50	54.00	18.50	AV	Vertical
3	17996.99	46.09	54.00	7.91	AV	Vertical



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	4244.19	46.60	-11.86	74.00	27.40	PK	Horizontal
2	8352.43	55.86	-2.54	74.00	18.14	PK	Horizontal
3	17965.9	65.97	10.20	74.00	8.03	PK	Horizontal

AV Final Data List						
NO.	Freq. [MHz]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Detector	Polarity
1	4244.190	30.13	54.00	23.87	AV	Horizontal
2	8352.432	35.71	54.00	18.29	AV	Horizontal
3	17965.99	45.62	54.00	8.38	AV	Horizontal

- Note:**
- (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 - (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 - (3) Correct Factor= Ant_F + Cab_L - Preamp
 - (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

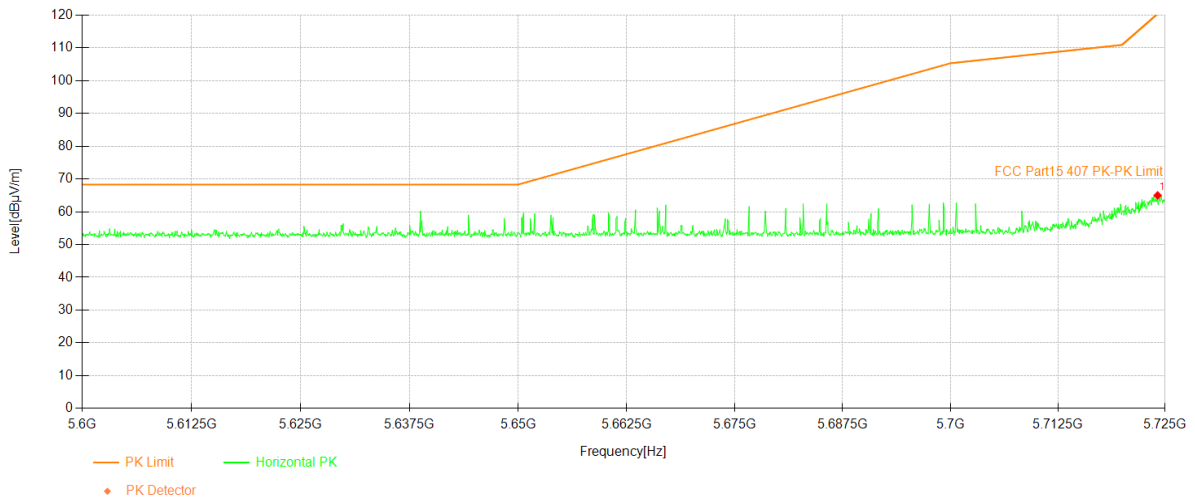
- ☒ Undesirable radiated Spurious Emission in band edge

Test mode: 802.11AX(HT20)		Frequency: 5745			
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5723.68	V	69.15	-26.08	-27	PASS
5724.12	H	64.99	-30.24	-27	PASS

Test mode: 802.11AX(HT20)		Frequency: 5825			
Freq. (MHz)	Ant.Pol. H/V	Field Strength (RBW=100KHz) (dBuV/m)	E.I.R.P (dBm)	Limit (dBm)	Verdict
5850.12	V	64.93	-30.3	-27	PASS
5863.00	H	63.91	-31.32	-27	PASS

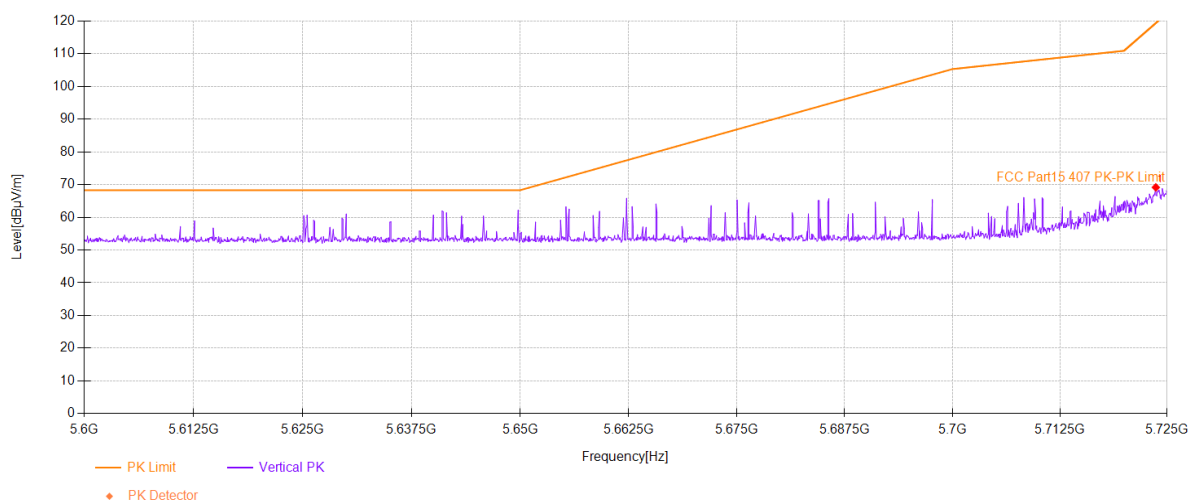
Note: (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).
 (2) Emission Level= Reading Level+Correct Factor +Cable Loss.
 (3) Correct Factor= Ant_F + Cab_L - Preamp
 (4) EIRP[dBm] = E[dBuV/m] + 20 log(d[meters]) - 104.77
 d is the measurement distance in 3 meters

Test Model U-NII -3
 Undesirable radiated ☐802.11a Undesirable radiated ☒5745 Spurious Emission in Band Edge ☐802.11n(HT40)
 Ant.Pol H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5724.12	64.99	39.04	120.30	55.31	PK	Horizontal

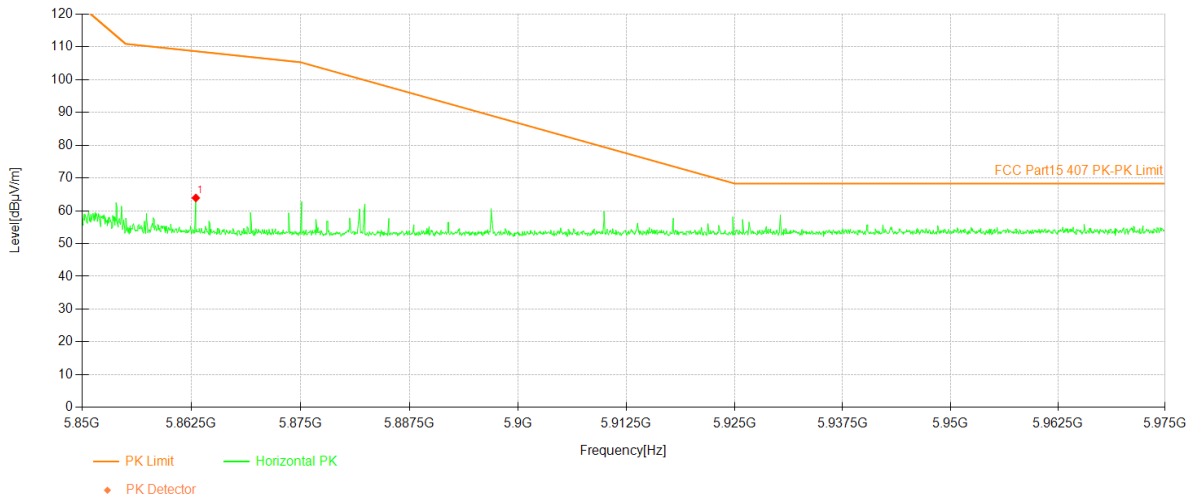
Test Model U-NII -3
 Undesirable radiated ☐802.11a Undesirable radiated ☒5745 Spurious Emission in ☐802.11n(HT40) Band Edge
 Ant.Pol V



Suspected Data List

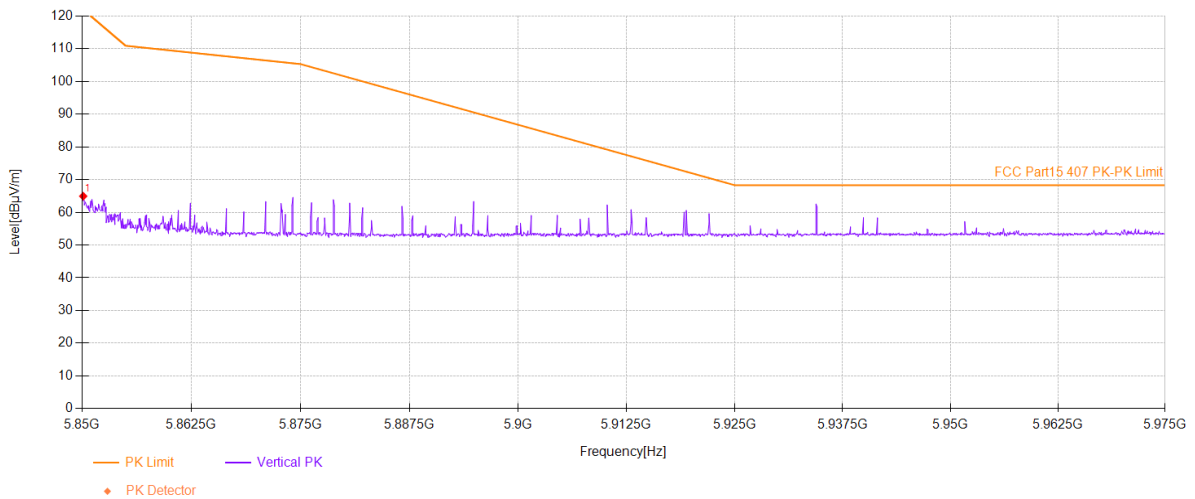
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5723.68	69.15	39.04	119.31	50.16	PK	Vertical

Test Model U-NII -3
Undesirable radiated ☐802.11a Undesirable radiated ☒5825 Spurious Emission in Band Edge ☐802.11n(HT40)
Ant.Pol H



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor[dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5863.00	63.91	39.37	108.66	44.75	PK	Horizontal

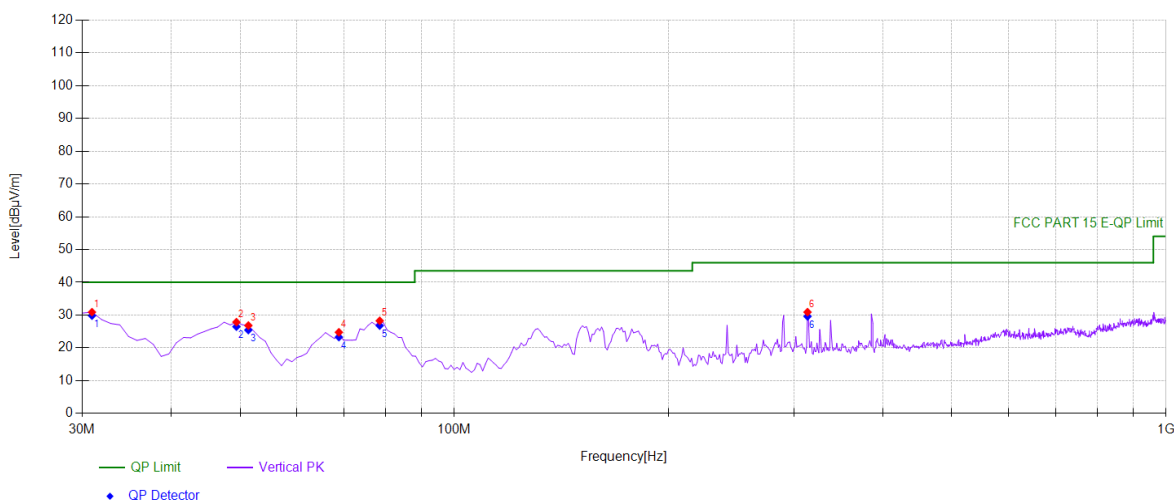
U-NII -3			
Test Model	Undesirable radiated	Undesirable radiated	Spurious Emission in Band Edge
	☐ 802.11a	☒ 802.11AX(HT20)	☐ 802.11n(HT40)
	☒ 5825		Ant.Pol V



Suspected Data List							
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	5850.12	64.93	39.37	122.01	57.08	PK	Vertical

- Undesirable radiated Spurious Emission below 1GHz (30MHz to 1GHz)
All of the configurations or modes are tested, the data of the worst case is recorded in the report.

Test mode: 802.11A(20) Frequency(MHz): 5180

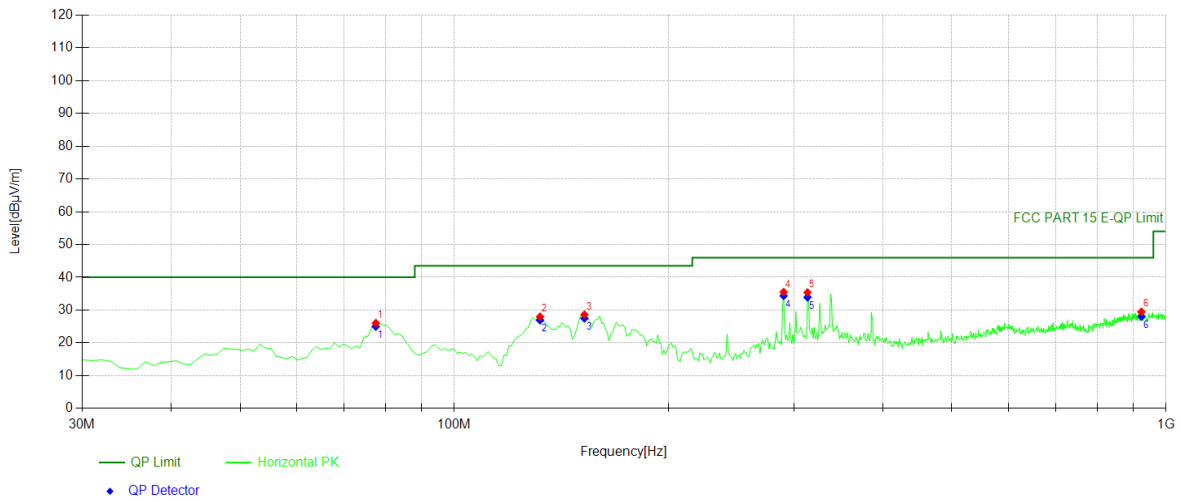


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	30.971	44.55	-13.63	30.92	PK	40.00	9.08	Vertical
2	49.4194	38.62	-10.75	27.87	PK	40.00	12.13	Vertical
3	51.3614	37.68	-10.85	26.83	PK	40.00	13.17	Vertical
4	68.8388	38.07	-13.30	24.77	PK	40.00	15.23	Vertical
5	78.5485	42.97	-14.70	28.27	PK	40.00	11.73	Vertical
6	313.523	38.94	-8.03	30.91	PK	46.00	15.09	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	30.971	-13.63	29.86	40.00	10.14
2	49.4194	-10.75	26.49	40.00	13.51
3	51.3614	-10.85	25.45	40.00	14.55
4	68.8388	-13.30	23.30	40.00	16.70
5	78.5485	-14.70	26.80	40.00	13.20
6	313.5235	-8.03	29.62	46.00	16.38



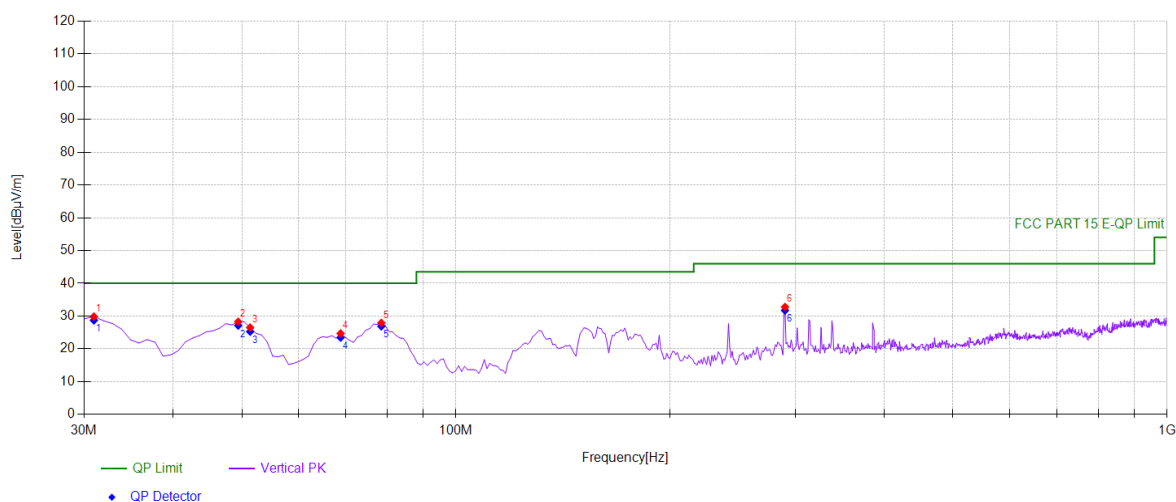
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	77.5776	40.62	-14.56	26.06	PK	40.00	13.94	Horizontal
2	131.952	42.00	-14.02	27.98	PK	43.50	15.52	Horizontal
3	152.342	42.90	-14.26	28.64	PK	43.50	14.86	Horizontal
4	290.220	44.28	-8.76	35.52	PK	46.00	10.48	Horizontal
5	313.523	43.43	-8.03	35.40	PK	46.00	10.60	Horizontal
6	923.293	26.85	2.64	29.49	PK	46.00	16.51	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	77.5776	-14.56	24.99	40.00	15.01
2	131.952	-14.02	26.91	43.50	16.59
3	152.3423	-14.26	27.49	43.50	16.01
4	290.2202	-8.76	34.37	46.00	11.63
5	313.5235	-8.03	33.93	46.00	12.07
6	923.2933	2.64	28.02	46.00	17.98

Test mode: 802.11A(20) Frequency(MHz): 5200

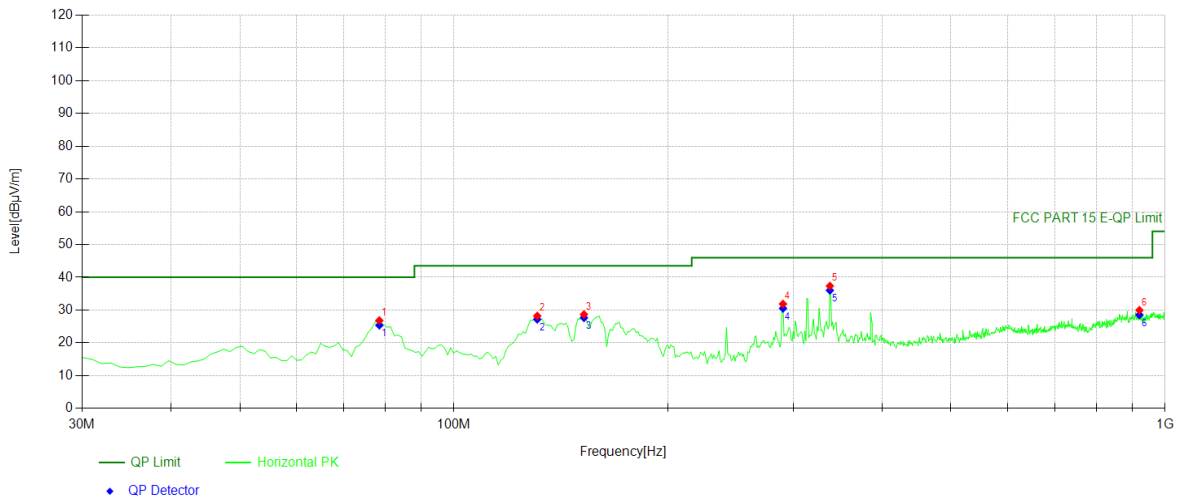


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	30.971	43.50	-13.63	29.87	PK	40.00	10.13	Vertical
2	49.4194	39.03	-10.75	28.28	PK	40.00	11.72	Vertical
3	51.3614	37.36	-10.85	26.51	PK	40.00	13.49	Vertical
4	68.8388	38.00	-13.30	24.70	PK	40.00	15.30	Vertical
5	78.5485	42.65	-14.70	27.95	PK	40.00	12.05	Vertical
6	290.220	41.55	-8.76	32.79	PK	46.00	13.21	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	30.971	-13.63	28.71	40.00	11.29
2	49.4194	-10.75	27.12	40.00	12.88
3	51.3614	-10.85	25.27	40.00	14.73
4	68.8388	-13.30	23.46	40.00	16.54
5	78.5485	-14.70	26.89	40.00	13.11
6	290.2202	-8.76	31.73	46.00	14.27



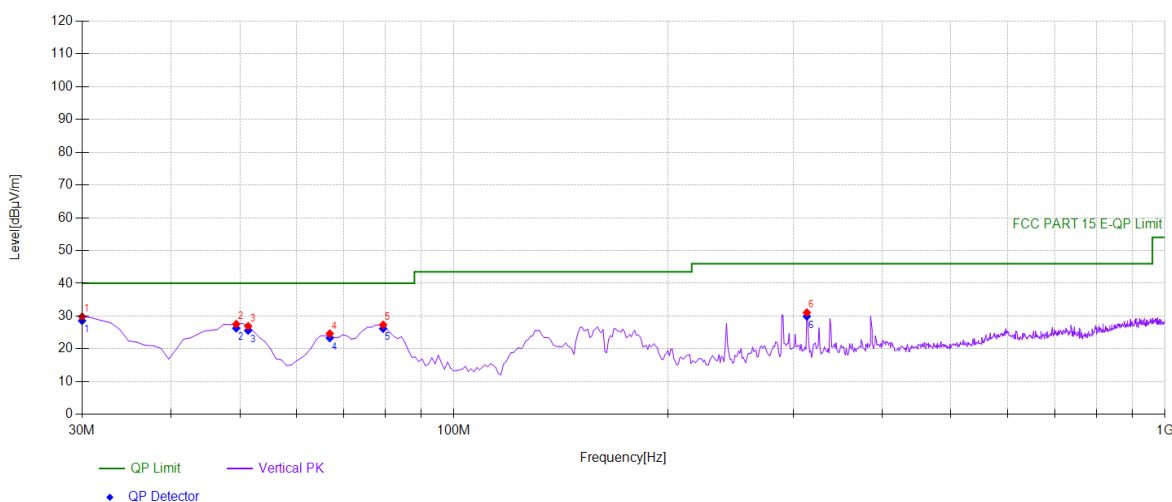
Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	78.5485	41.53	-14.70	26.83	PK	40.00	13.17	Horizontal
2	130.981	42.17	-13.95	28.22	PK	43.50	15.28	Horizontal
3	152.342	42.95	-14.26	28.69	PK	43.50	14.81	Horizontal
4	290.220	40.64	-8.76	31.88	PK	46.00	14.12	Horizontal
5	337.797	44.08	-6.71	37.37	PK	46.00	8.63	Horizontal
6	920.380	27.22	2.75	29.97	PK	46.00	16.03	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	78.5485	-14.70	25.38	40.00	14.62
2	130.981	-13.95	27.19	43.50	16.31
3	152.3423	-14.26	27.66	43.50	15.84
4	290.2202	-8.76	30.53	46.00	15.47
5	337.7978	-6.71	36.02	46.00	9.98
6	920.3804	2.75	28.54	46.00	17.46

Test mode: 802.11A(20) Frequency(MHz): 5240

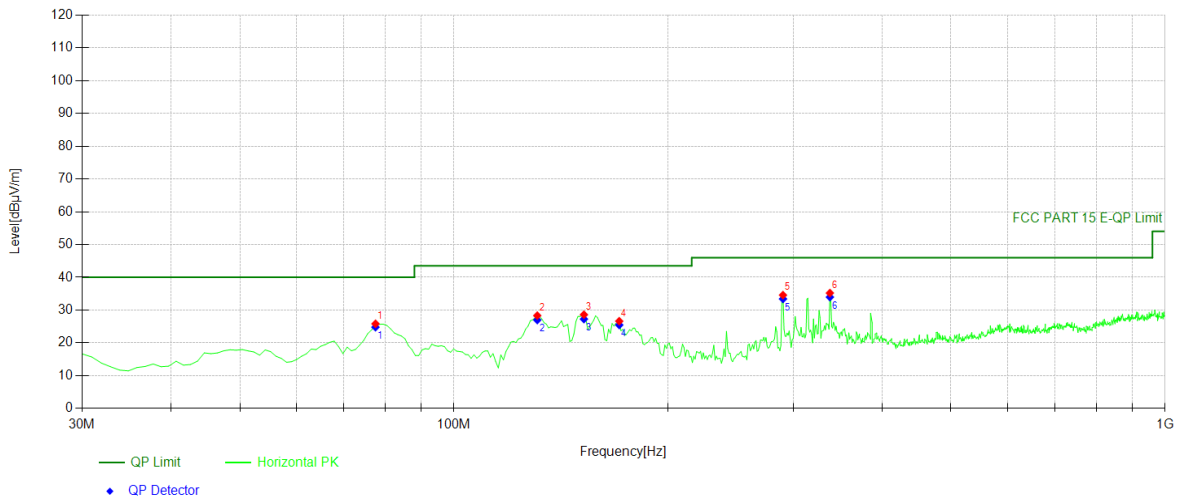


Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	30	43.63	-13.78	29.85	PK	40.00	10.15	Vertical
2	49.4194	38.31	-10.75	27.56	PK	40.00	12.44	Vertical
3	51.3614	37.79	-10.85	26.94	PK	40.00	13.06	Vertical
4	66.8969	37.67	-13.01	24.66	PK	40.00	15.34	Vertical
5	79.5195	42.19	-14.84	27.35	PK	40.00	12.65	Vertical
6	313.523	39.11	-8.03	31.08	PK	46.00	14.92	Vertical

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	30	-13.78	28.59	40.00	11.41
2	49.4194	-10.75	26.30	40.00	13.70
3	51.3614	-10.85	25.60	40.00	14.40
4	66.8969	-13.01	23.32	40.00	16.68
5	79.5195	-14.84	26.19	40.00	13.81
6	313.5235	-8.03	29.92	46.00	16.08



Suspected Data List

NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB/m]	Level [dBμV/m]	Detector	Limit [dBμV/m]	Margin [dB]	Polarity
1	77.5776	40.39	-14.56	25.83	PK	40.00	14.17	Horizontal
2	130.981	42.28	-13.95	28.33	PK	43.50	15.17	Horizontal
3	152.342	42.87	-14.26	28.61	PK	43.50	14.89	Horizontal
4	170.790	40.33	-13.70	26.63	PK	43.50	16.87	Horizontal
5	290.220	43.34	-8.76	34.58	PK	46.00	11.42	Horizontal
6	337.797	41.93	-6.71	35.22	PK	46.00	10.78	Horizontal

Final Data List

NO.	Freq. [MHz]	Factor [dB/m]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]
1	77.5776	-14.56	24.80	40.00	15.20
2	130.981	-13.95	26.98	43.50	16.52
3	152.3423	-14.26	27.26	43.50	16.24
4	170.7908	-13.70	25.46	43.50	18.04
5	290.2202	-8.76	33.41	46.00	12.59
6	337.7978	-6.71	33.97	46.00	12.03

8.5 POWER LINE CONDUCTED EMISSIONS

8.5.1 Applicable Standard

According to FCC Part 15.207(a).

8.5.2 Conformance Limit

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	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.

8.5.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

8.5.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

8.5.5 Test Results

Pass.

8.6 ANTENNA APPLICATION

8.6.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

8.6.2 Result

PASS

Temperature : 25°C ATM Pressure:: 1011 mbar
Humidity : 60 % Test Engineer: XXH

- ☐ Antennas use a permanently attached antenna which is not replaceable.
- ☒ Not using a standard antenna jack or electrical connector for antenna replacement
- ☐ The antenna has to be professionally installed (please provide method of installation)

Which in accordance to section 15.203, please refer to the internal photos.