

**8.5.6. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND**

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Mid	5290	83.60	76.40	2.60

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Mid	5290	24.00	24.00	30.00	24.00	11.00	11.00	11.00

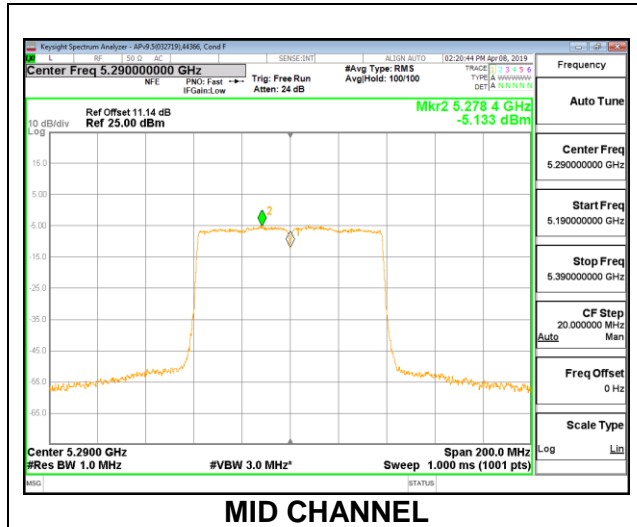
<b>Duty Cycle CF (dB)</b>	0.21	<b>Included in Calculations of Corr'd Power &amp; PSD</b>						
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED Power Margin (dB)
Mid	5290	11.97	11.97	24.00	-12.03

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5290	-5.133	-4.923	11.00	-15.92



### 8.5.7. 802.11n HT20 MODE IN THE 5.6 GHz BAND

#### Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5500	21.700	17.775	2.80
Mid	5580	21.350	17.695	2.80
High	5700	21.650	17.791	2.80
144	5720	15.825	13.875	2.80

#### Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5500	24.00	23.50	29.50	23.50	11.00	11.00	11.00
Mid	5580	24.00	23.48	29.48	23.48	11.00	11.00	11.00
High	5700	24.00	23.50	29.50	23.50	11.00	11.00	11.00
144	5720	22.99	22.42	28.42	22.42	11.00	11.00	11.00

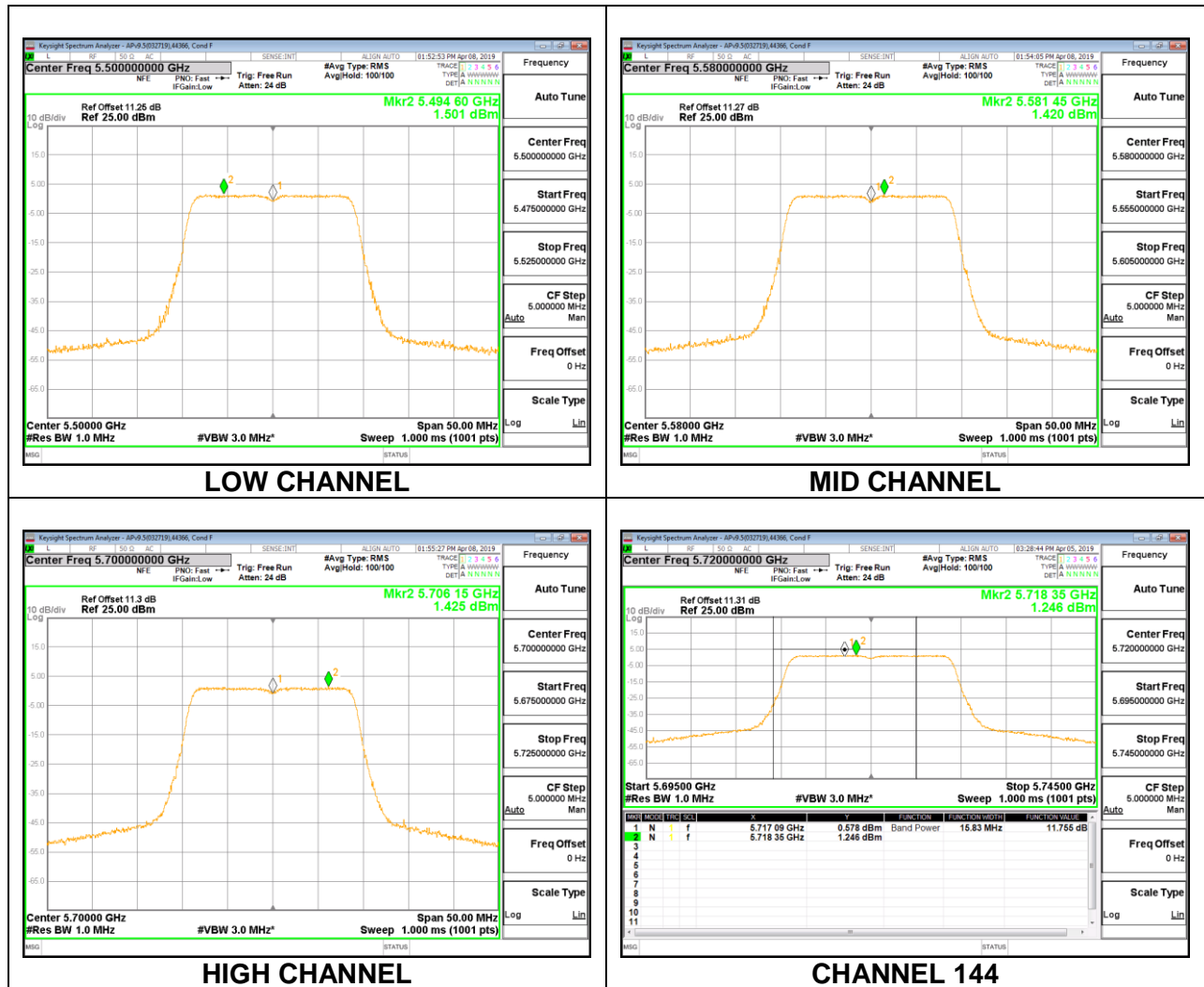
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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#### Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	FCC Power Limit (dBm)	FCC Power Margin (dB)	ISED Power Limit (dBm)	ISED Power Margin (dB)
Low	5500	12.860	12.86	24.00	-11.14	23.50	-10.64
Mid	5580	12.850	12.85	24.00	-11.15	23.48	-10.63
High	5700	12.950	12.95	24.00	-11.05	23.50	-10.55
144	5720	11.755	11.76	22.99	-11.24	22.42	-10.67

#### PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	1.501	1.501	11.00	-9.50
Mid	5580	1.420	1.420	11.00	-9.58
High	5700	1.425	1.425	11.00	-9.58
144	5720	1.246	1.246	11.00	-9.75



**8.5.8. 802.11n HT40 MODE IN THE 5.6 GHz BAND**

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5510	41.6000	36.3260	2.80
Mid	5550	40.8000	36.7360	2.80
High	5670	40.8000	36.2930	2.80
142	5710	40.5000	37.0950	2.80

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5510	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Mid	5550	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5670	24.00	24.00	30.00	24.00	11.00	11.00	11.00
142	5710	24.00	24.00	30.00	24.00	11.00	11.00	11.00

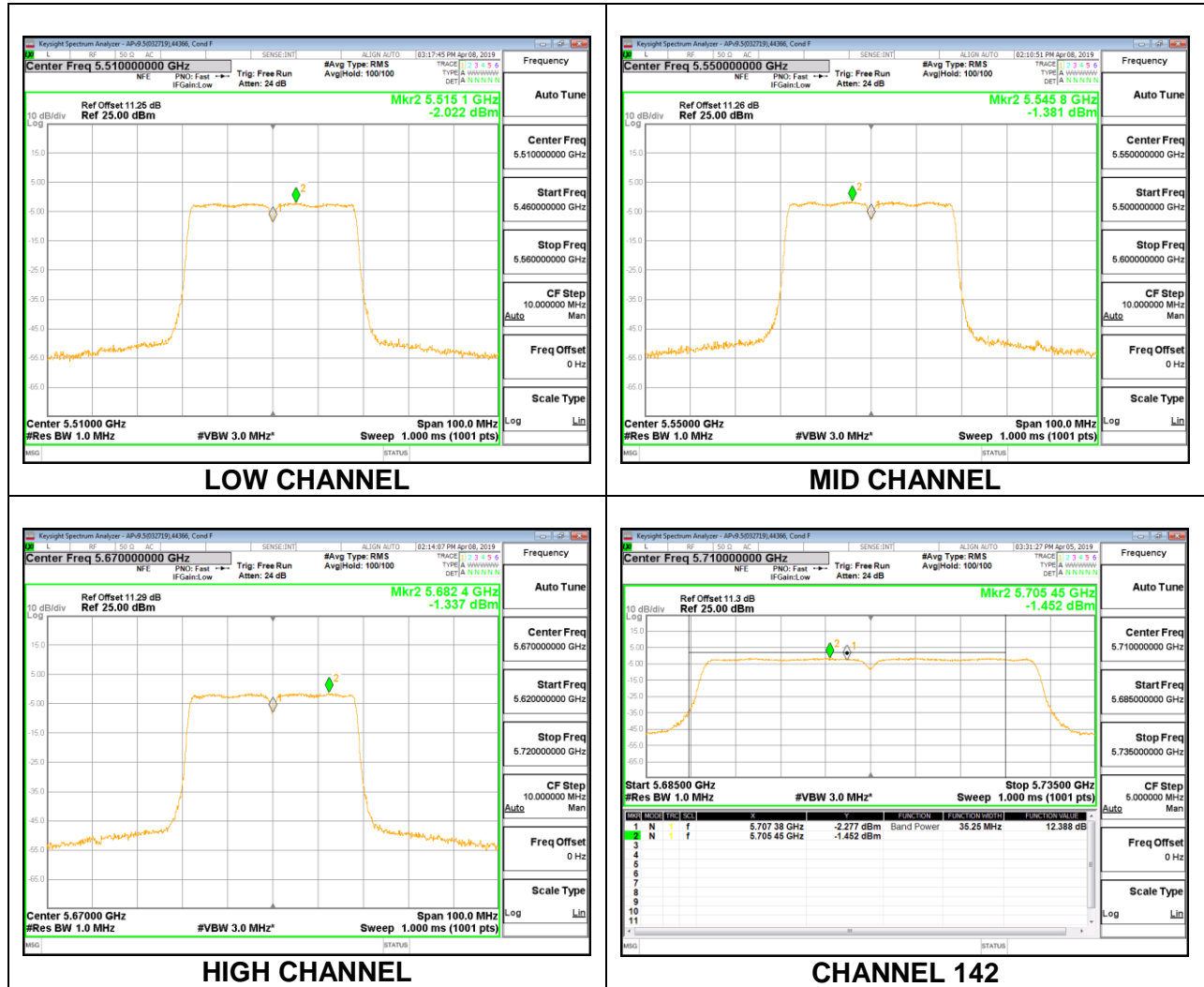
<b>Duty Cycle CF (dB)</b>	0.09	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	12.370	12.37	24.00	-11.63
Mid	5550	12.880	12.88	24.00	-11.12
High	5670	12.920	12.92	24.00	-11.08
142	5710	12.390	12.48	24.00	-11.52

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	-2.022	-1.93	11.00	-12.93
Mid	5550	-1.381	-1.29	11.00	-12.29
High	5670	-1.337	-1.25	11.00	-12.25
142	5710	-1.452	-1.36	11.00	-12.36



**8.5.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND**

**Bandwidth and Antenna Gain**

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5530	84.2000	75.9150	2.80
High	5610	83.2000	77.1710	2.80
138	5690	83.2000	76.8920	2.80

**Limits**

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

<b>Duty Cycle CF (dB)</b>	0.21	<b>Included in Calculations of Corr'd Power &amp; PSD</b>
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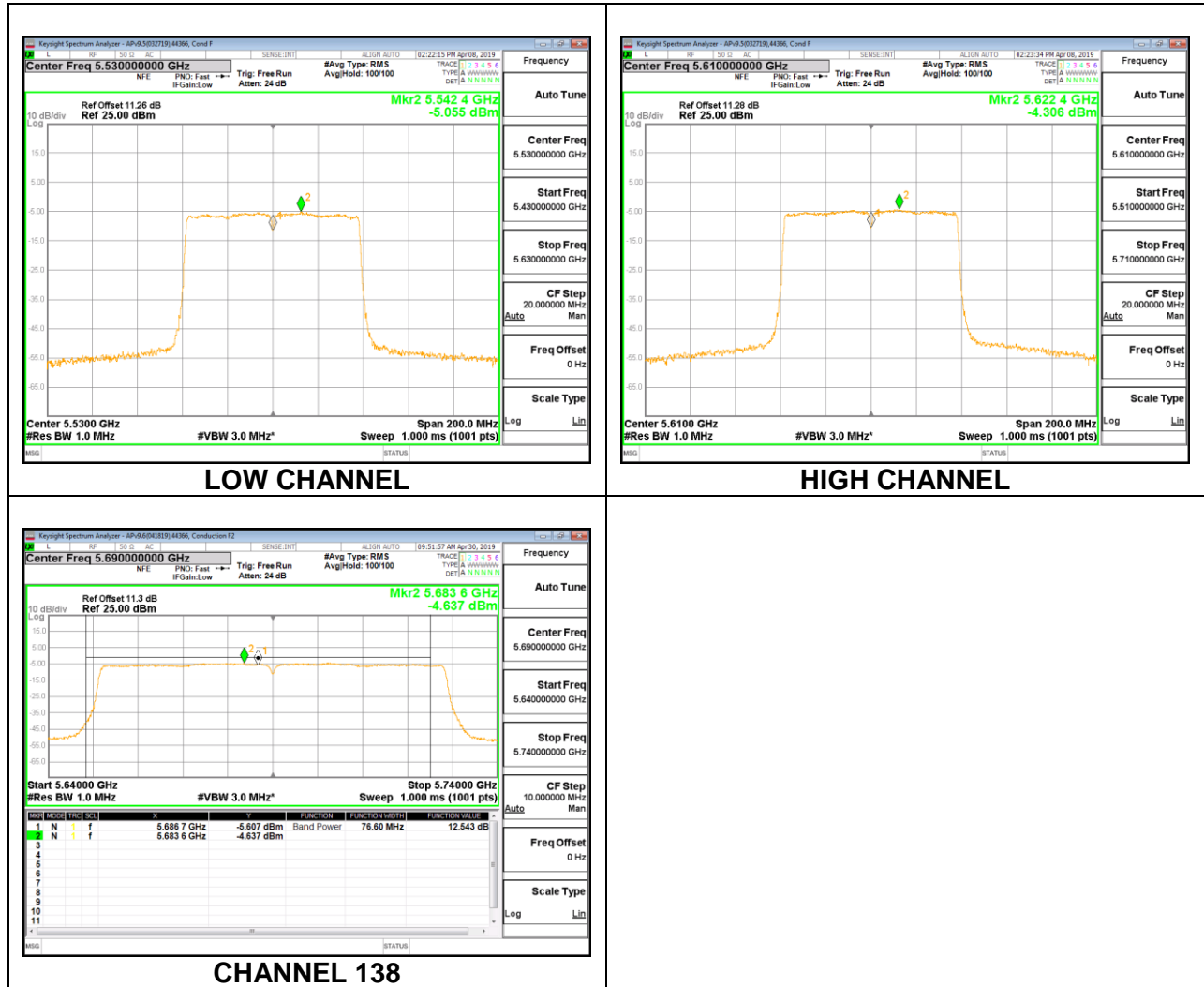
**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	11.890	11.89	24.00	-12.11
High	5610	12.880	12.88	24.00	-11.12
138	5690	12.543	12.75	24.00	-11.25

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-5.055	-4.845	11.00	-15.85
High	5610	-4.306	-4.096	11.00	-15.10
138	5690	-4.637	-4.427	11.00	-15.43





**8.5.10. 802.11n HT20 MODE IN THE 5.8 GHz BAND**

**Antenna Gain and Limits**

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5745	2.40	30.00	30.00
Mid	5785	2.40	30.00	30.00
High	5825	2.40	30.00	30.00
144	5720	2.40	30.00	30.00

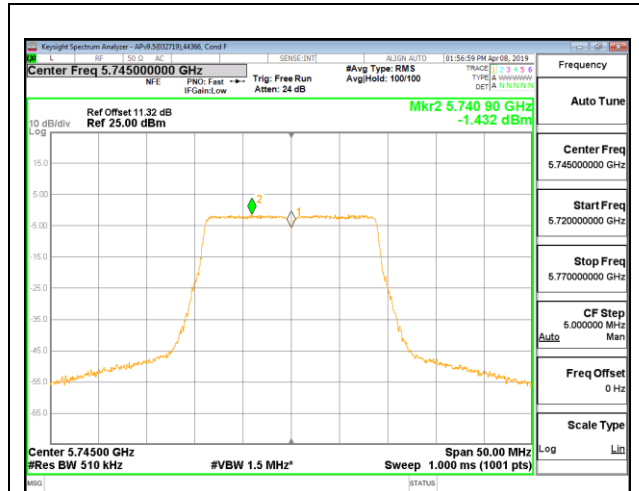
<b>Duty Cycle CF (dB)</b>	0.00	<b>Included in Calculations of Corr'd Power (Ch 144) &amp; PSD</b>
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**Output Power Results**

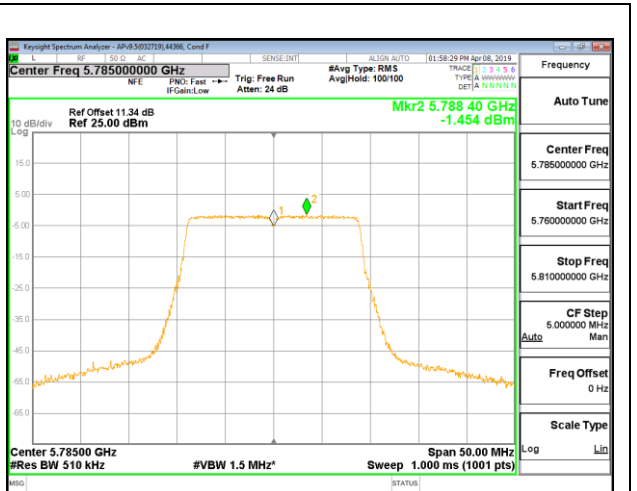
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	12.92	12.92	30.00	-17.08
Mid	5785	12.97	12.97	30.00	-17.03
High	5825	12.94	12.94	30.00	-17.06
144	5720	6.37	6.37	30.00	-23.63

**PSD Results**

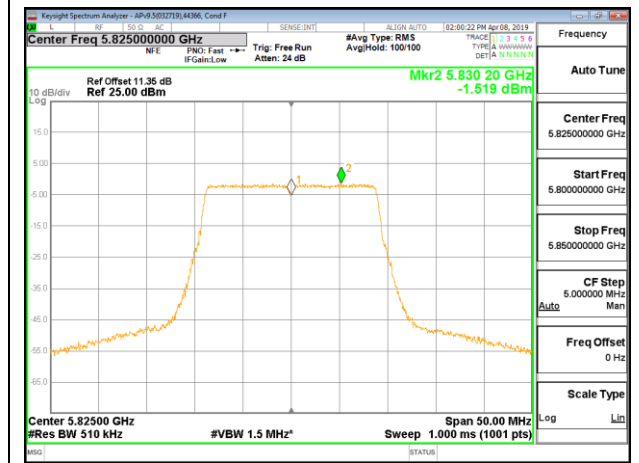
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	-1.432	-1.432	30.00	-31.43
Mid	5785	-1.454	-1.454	30.00	-31.45
High	5825	-1.519	-1.519	30.00	-31.52
144	5720	-1.613	-1.613	30.00	-31.61



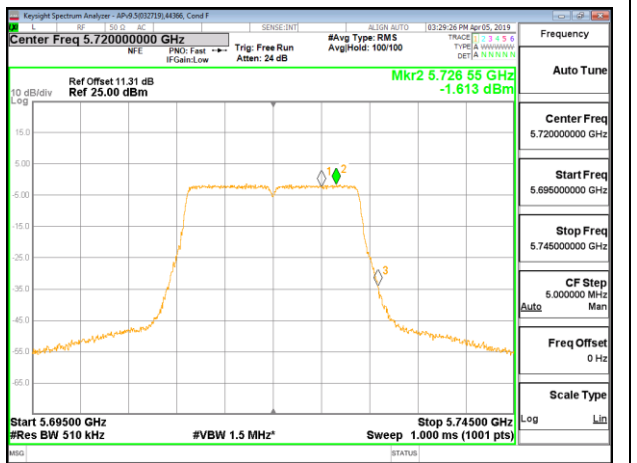
LOW CHANNEL



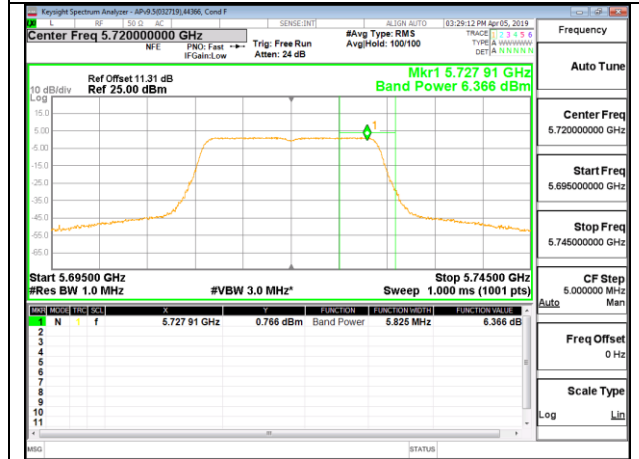
MID CHANNEL



HIGH CHANNEL



CHANNEL 144 PSD



CHANNEL 144 POWER

**8.5.11. 802.11n HT40 MODE IN THE 5.8 GHz BAND**

**Antenna Gain and Limits**

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5755	2.40	30.00	30.00
High	5795	2.40	30.00	30.00
142	5710	2.40	30.00	30.00

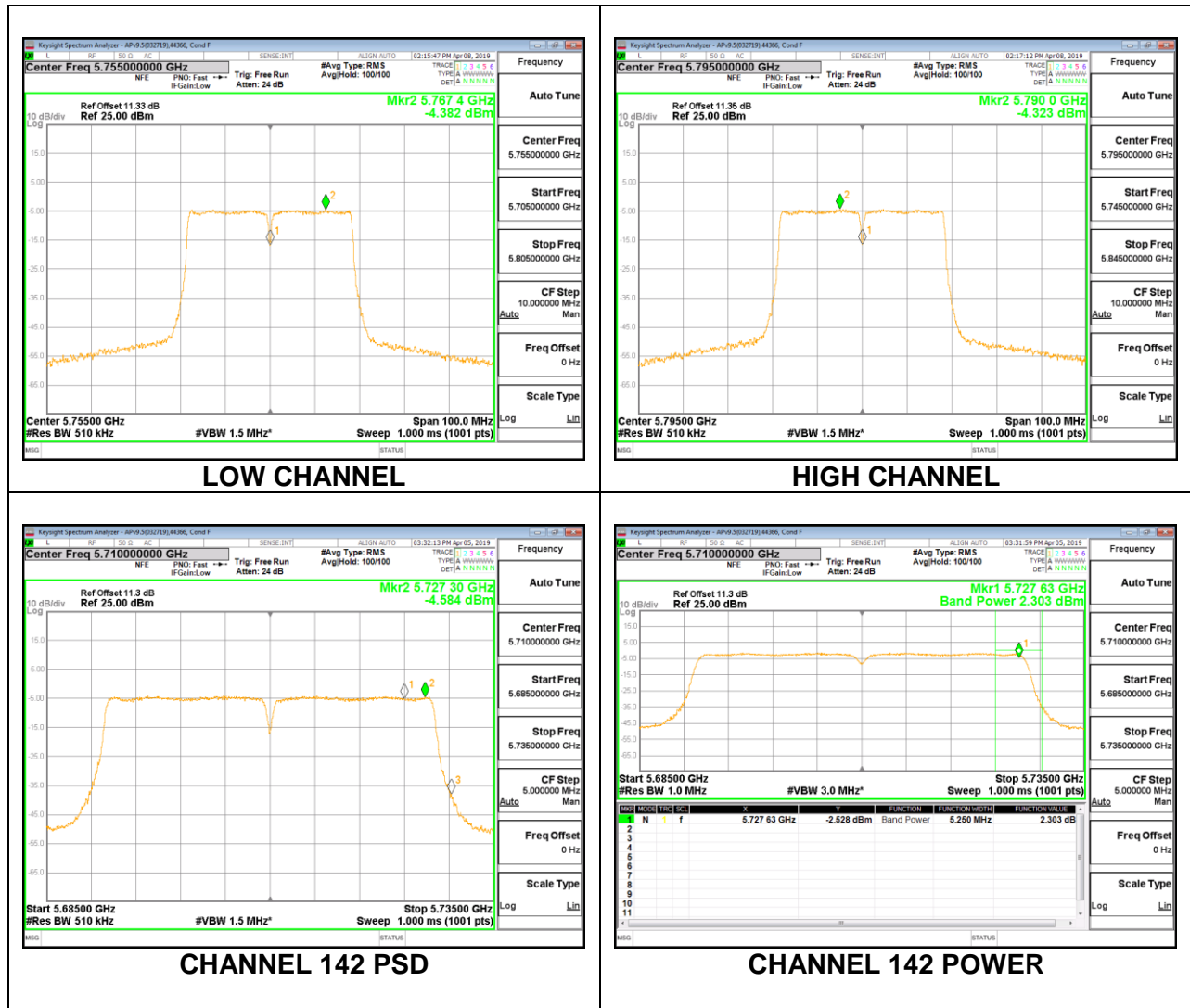
<b>Duty Cycle CF (dB)</b>	0.09	<b>Included in Calculations of Corr'd Power (Ch 142) &amp; PSD</b>
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**Output Power Results**

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	12.98	12.98	30.00	-17.02
High	5795	12.89	12.89	30.00	-17.11
142	5710	2.30	2.39	30.00	-27.61

**PSD Results**

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5755	-4.382	-4.292	30.00	-34.29
High	5795	-4.323	-4.233	30.00	-34.23
142	5710	-4.584	-4.494	30.00	-34.49



**8.5.12. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND**

**Antenna Gain and Limits**

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5775	2.40	30.00	30.00
138	5690	2.40	30.00	30.00

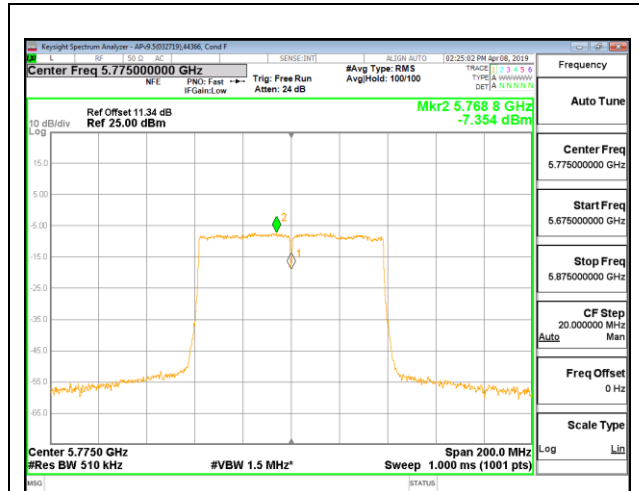
<b>Duty Cycle CF (dB)</b>	0.21	<b>Included in Calculations of Corr'd Power (Ch 138) &amp; PSD</b>
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**Output Power Results**

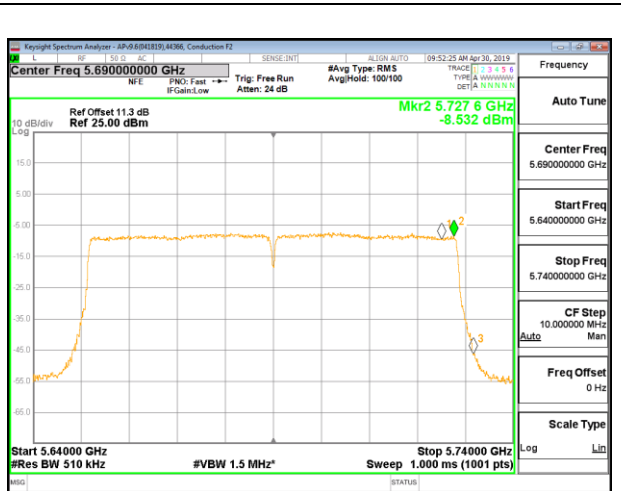
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	12.85	12.85	30.00	-17.15
138	5690	-1.32	-1.11	30.00	-31.11

**PSD Results**

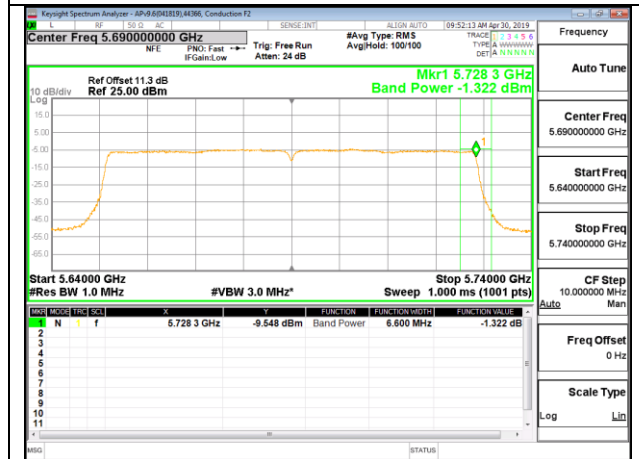
Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	-7.354	-7.144	30.00	-37.14
138	5690	-8.542	-8.332	30.00	-38.33



MID CHANNEL



CHANNEL 138 PSD



CHANNEL 138 POWER

## 9. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-3) -Un-Restricted bands

### After January 01, 2019 for Outside of the Restricted Bands Emissions

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned



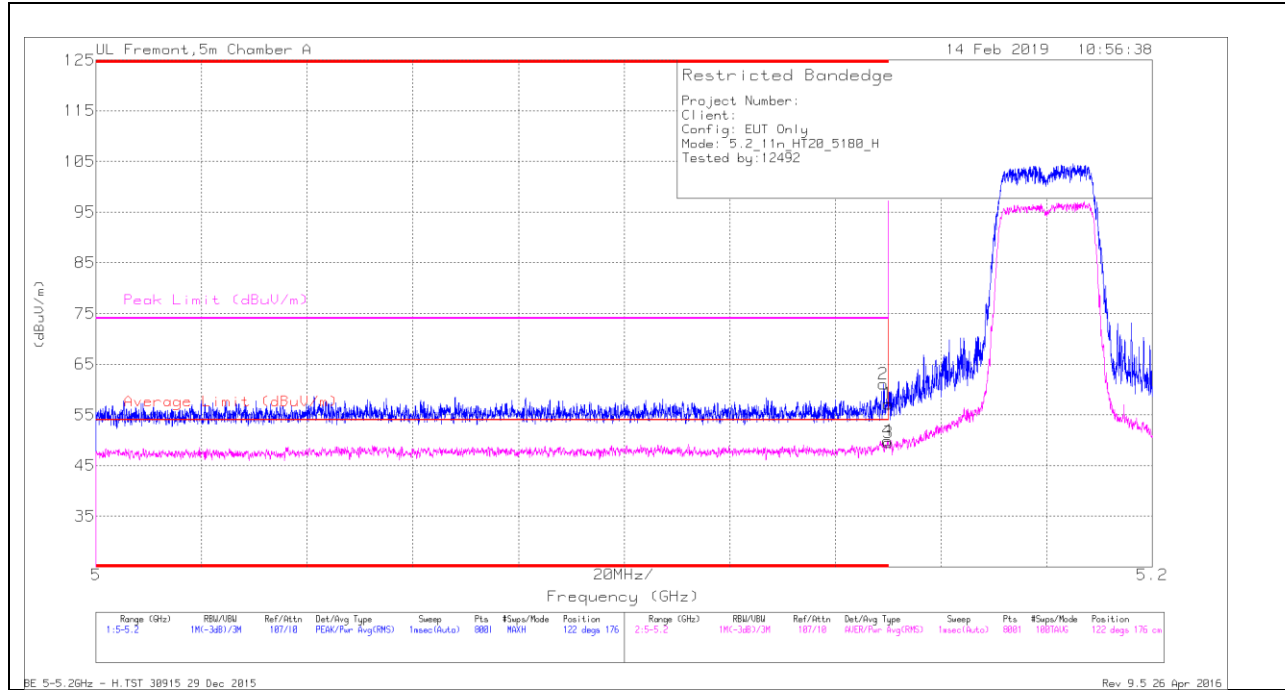
from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

## 9.1. TRANSMITTER ABOVE 1 GHz

### 9.1.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



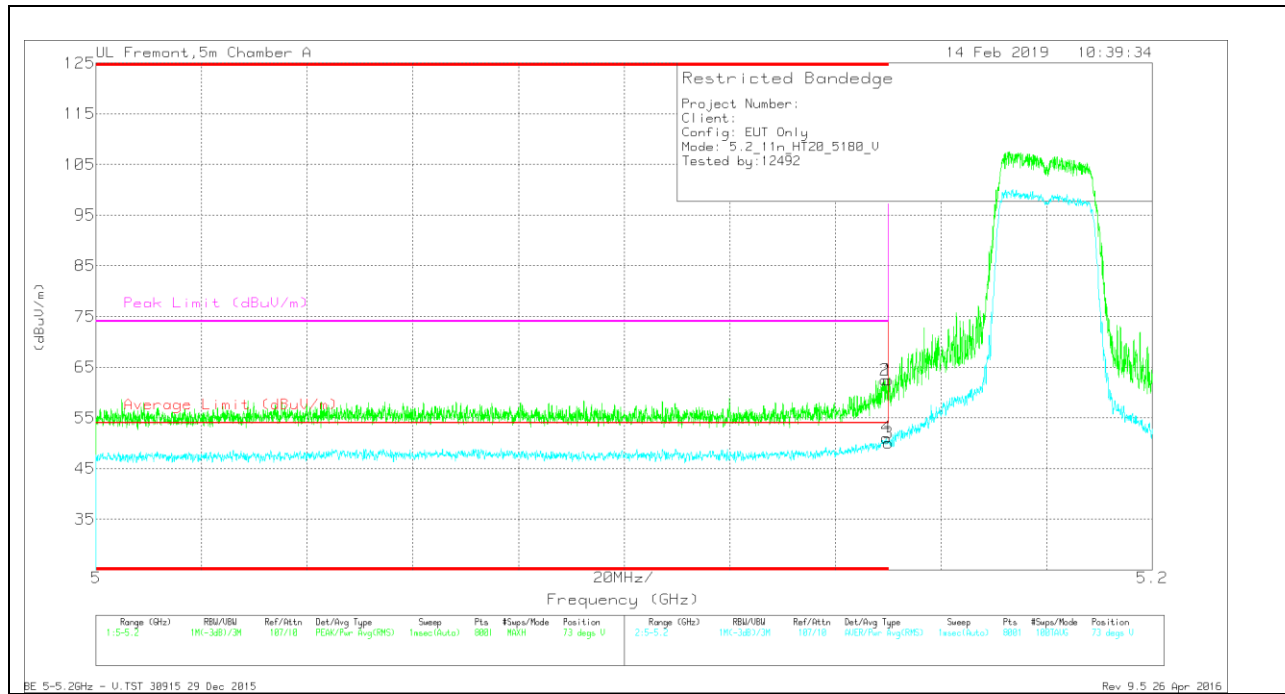
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	41.68	Pk	34.3	-18.8	57.18	-	-	74	-16.82	122	176	H
2	* 5.149	45.64	Pk	34.2	-18.8	61.04	-	-	74	-12.96	122	176	H
3	5.15	33.99	RMS	34.3	-18.8	49.49	54	-4.51	-	-	122	176	H
4	* 5.15	34.42	RMS	34.3	-18.8	49.92	54	-4.08	-	-	122	176	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	46.92	Pk	34.3	-18.8	62.42	-	-	74	-11.58	73	389	V
2	* 5.149	46.95	Pk	34.3	-18.8	62.45	-	-	74	-11.55	73	389	V
3	5.15	34.53	RMS	34.3	-18.8	50.03	54	-3.97	-	-	73	389	V
4	* 5.15	35.6	RMS	34.3	-18.8	51.1	54	-2.9	-	-	73	389	V

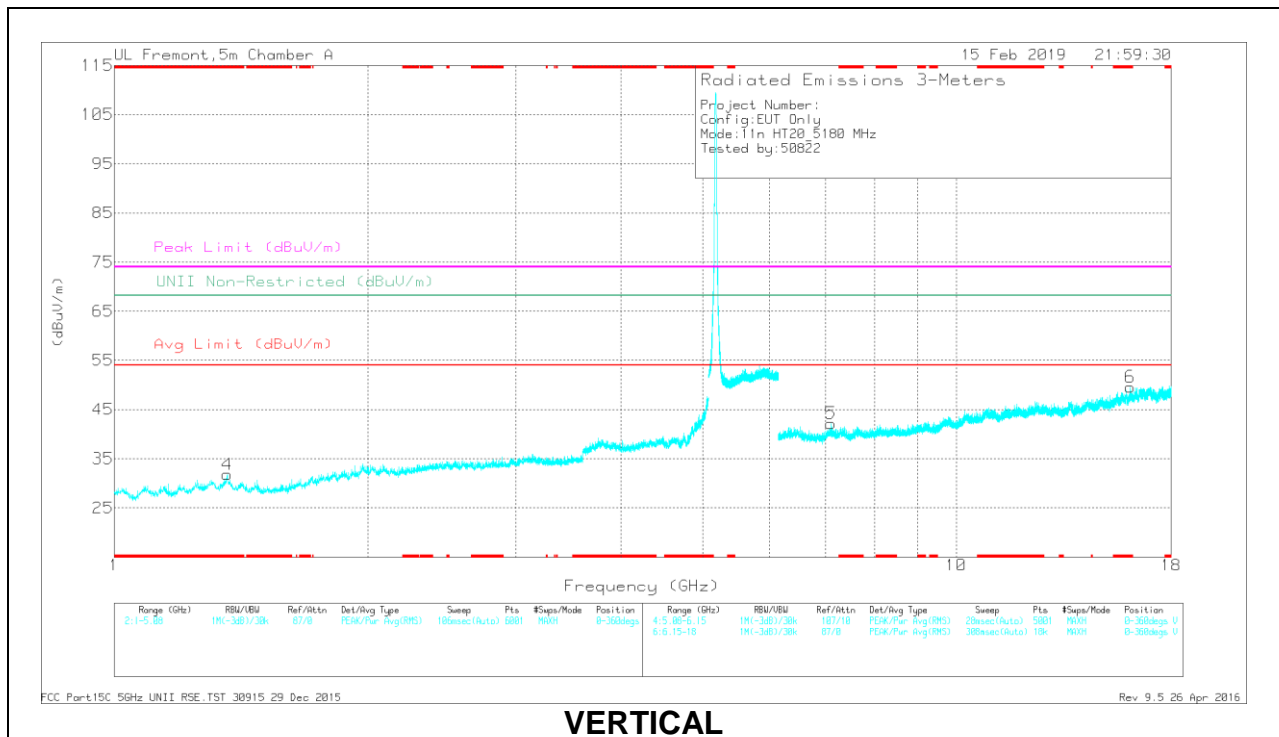
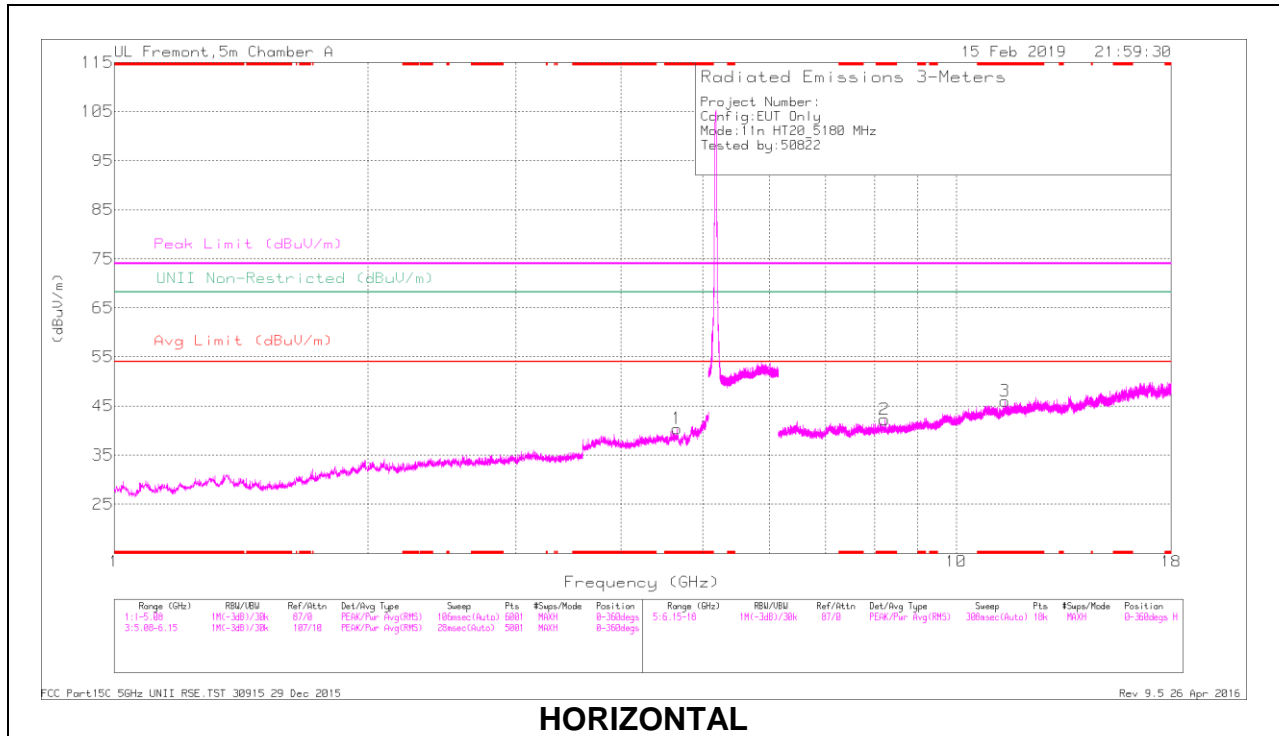
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**RADIATED EMISSIONS**

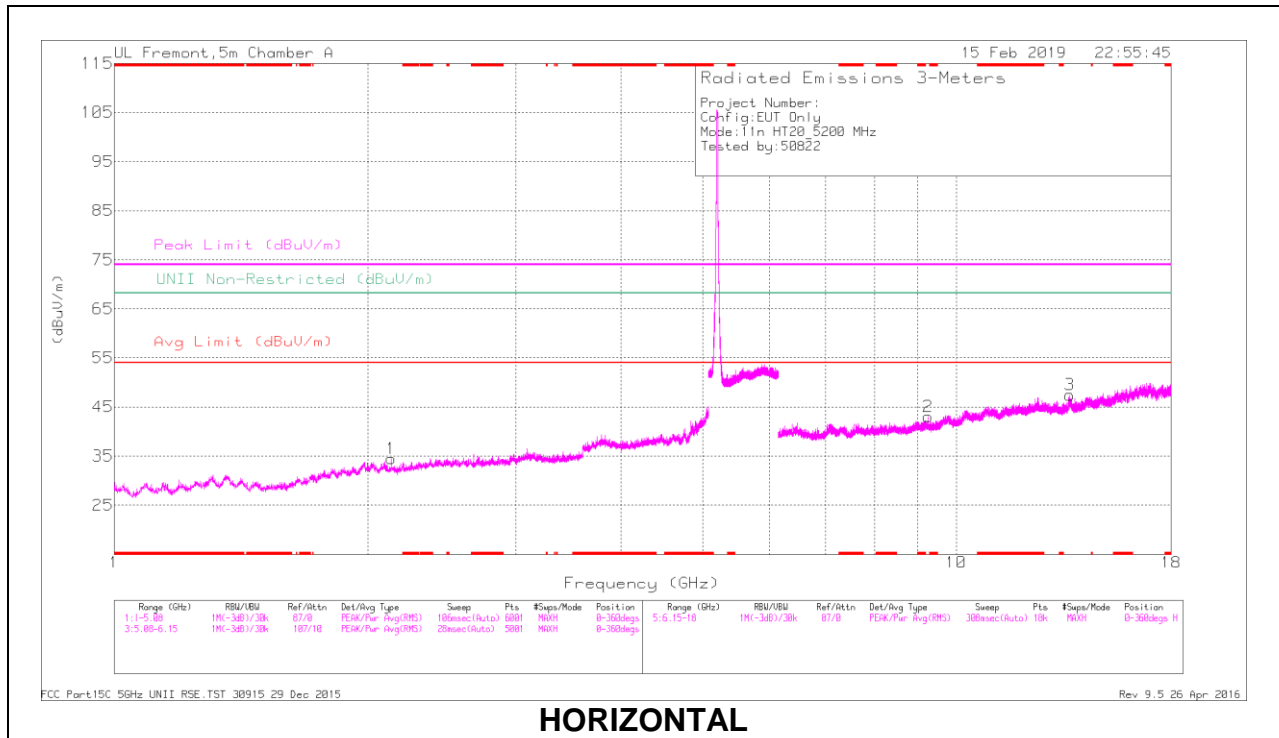
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.656	38.57	PK-U	34.2	-27.2	45.57	-	-	74	-28.43	-	-	0	236	H
	* 4.657	27.83	ADR	34.2	-27.2	34.83	54	-19.17	-	-	-	-	0	236	H
4	* 1.36	41.75	PK-U	29.2	-31.9	39.05	-	-	74	-34.95	-	-	60	104	V
	* 1.361	30.23	ADR	29.2	-31.9	27.53	54	-26.47	-	-	-	-	60	104	V
2	* 8.217	34.92	PK-U	35.9	-23.5	47.32	-	-	74	-26.68	-	-	155	105	H
	* 8.218	24.3	ADR	35.9	-23.5	36.7	54	-17.3	-	-	-	-	155	105	H
3	* 11.429	33.39	PK-U	38.1	-20.1	51.39	-	-	74	-22.61	-	-	43	107	H
	* 11.429	22.77	ADR	38.1	-20.1	40.77	54	-13.23	-	-	-	-	43	107	H
6	* 16.099	33.3	PK-U	41	-19.2	55.1	-	-	74	-18.9	-	-	123	103	V
	* 16.098	23.37	ADR	41	-19.2	45.17	54	-8.83	-	-	-	-	123	103	V
5	7.098	36.03	PK-U	35.6	-23.7	47.93	-	-	-	-	68.2	-20.27	202	106	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

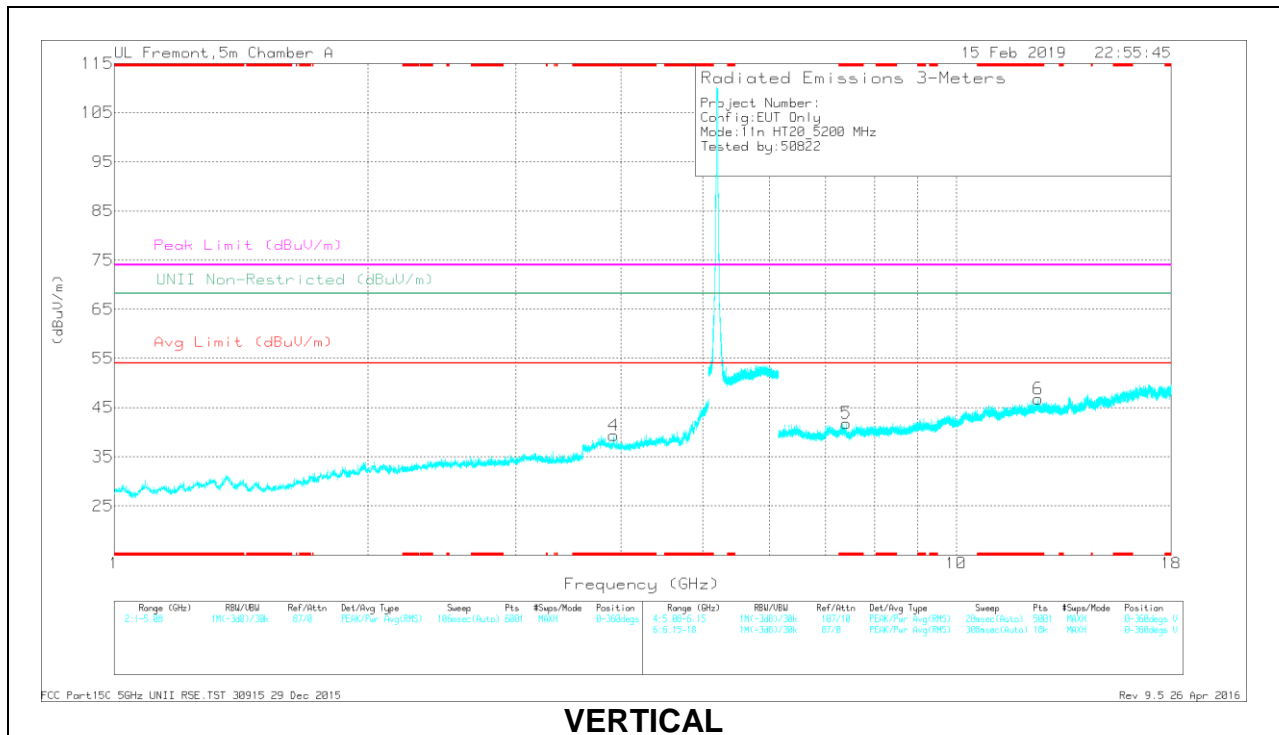
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

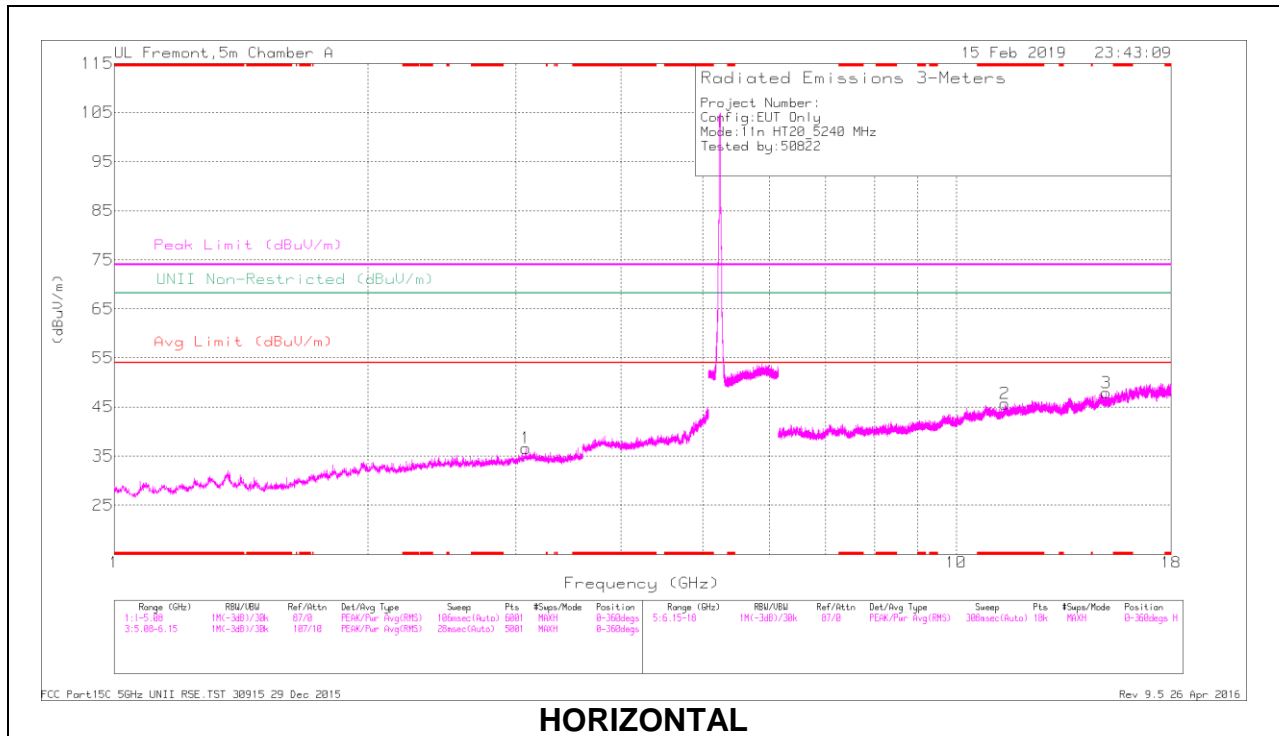
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 3.918	40.3	PK-U	33.6	-29.4	44.5	-	-	74	-29.5	-	-	136	287	V
	* 3.919	29.63	ADR	33.6	-29.4	33.83	54	-20.17	-	-	-	-	136	287	V
5	* 7.405	34.84	PK-U	35.7	-24	46.54	-	-	74	-27.46	-	-	343	118	V
	* 7.403	24.59	ADR	35.6	-24	36.19	54	-17.81	-	-	-	-	343	118	V
6	* 12.512	33.25	PK-U	39.1	-19.9	52.45	-	-	74	-21.55	-	-	349	104	V
	* 12.51	22.75	ADR	39.1	-19.9	41.95	54	-12.05	-	-	-	-	349	104	V
1	2.133	40.36	PK-U	31.4	-31.3	40.46	-	-	-	-	68.2	-27.74	66	103	H
2	9.264	34.59	PK-U	36.5	-22.6	48.49	-	-	-	-	68.2	-19.71	347	102	H
3	13.638	34.53	PK-U	38.9	-20.5	52.93	-	-	-	-	68.2	-15.27	168	216	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

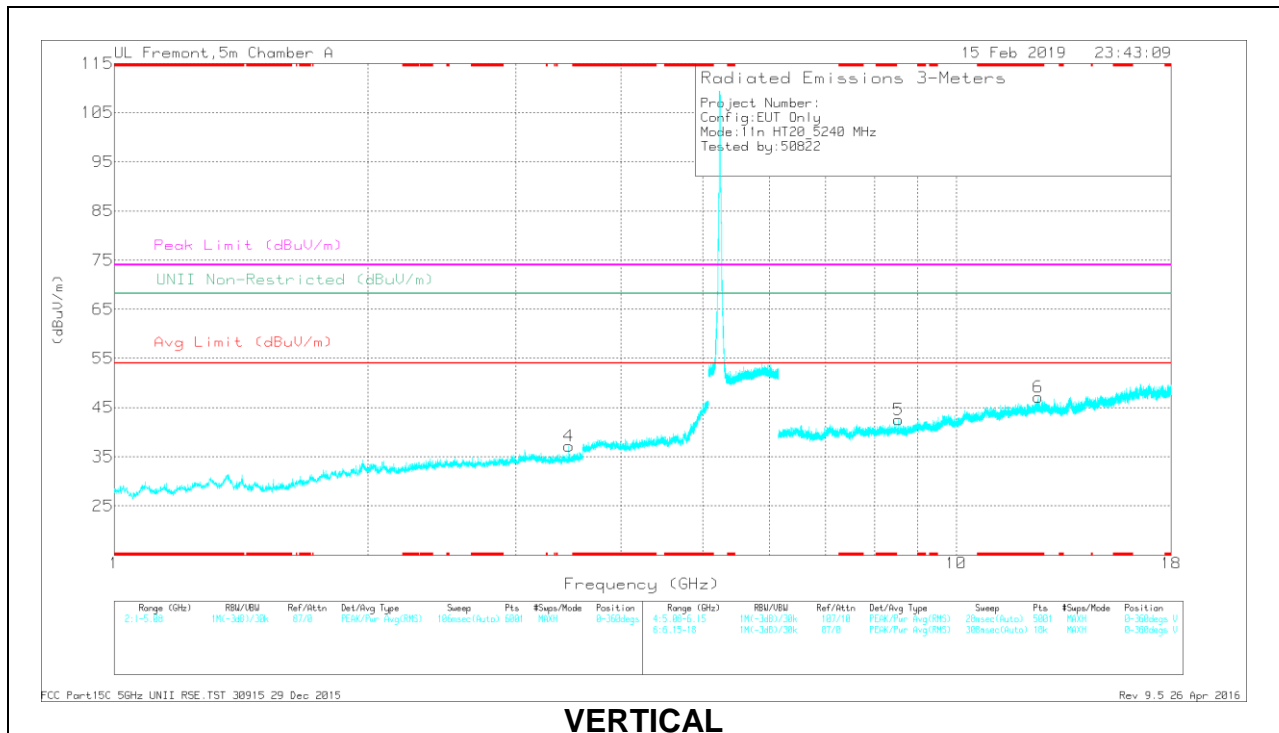
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**



### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 11.431	34.04	PK-U	38.1	-20.1	52.04	-	-	74	-21.96	-	-	313	105	H
	* 11.428	22.77	ADR	38.1	-20.1	40.77	54	-13.23	-	-	-	-	313	105	H
6	* 12.514	32.75	PK-U	39.1	-19.9	51.95	-	-	74	-22.05	-	-	196	190	V
	* 12.512	22.45	ADR	39.1	-19.9	41.65	54	-12.35	-	-	-	-	196	190	V
1	3.083	39.67	PK-U	33	-29.9	42.77	-	-	-	-	68.2	-25.43	62	102	H
4	3.468	39.94	PK-U	32.9	-29.6	43.24	-	-	-	-	68.2	-24.96	105	103	V
5	8.537	35.12	PK-U	36	-23.8	47.32	-	-	-	-	68.2	-20.88	294	103	V
3	15.071	33.34	PK-U	39.9	-20.3	52.94	-	-	-	-	68.2	-15.26	76	107	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

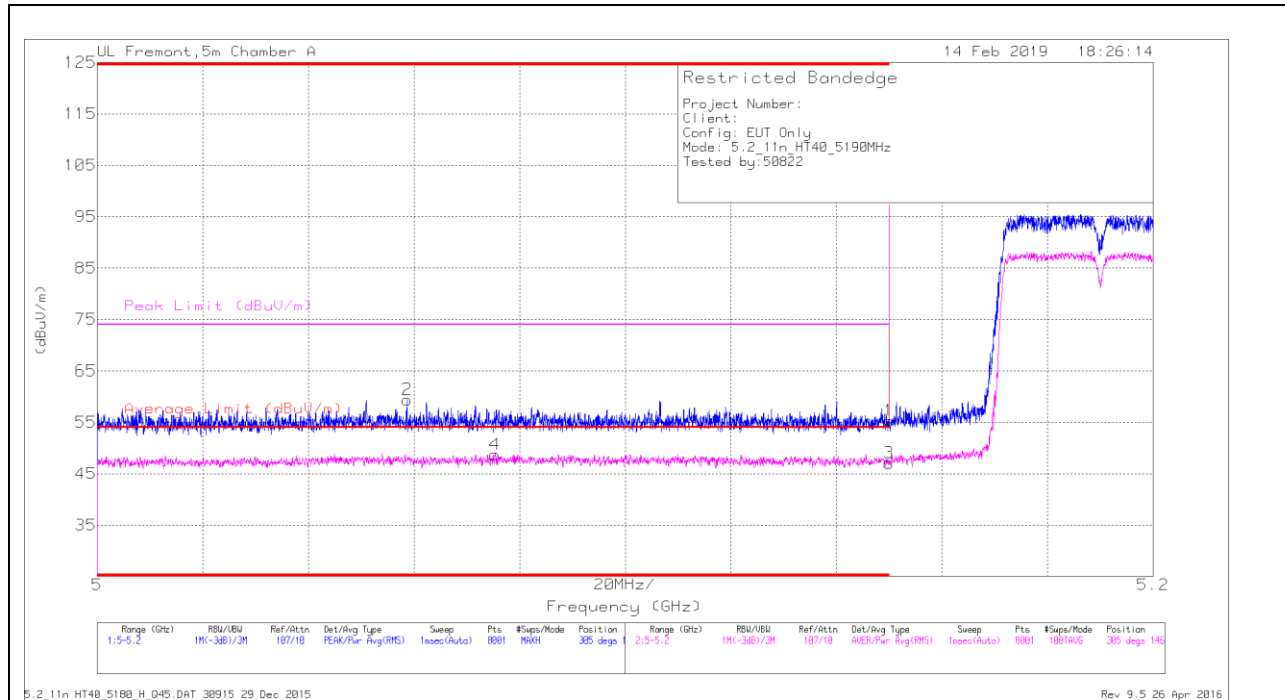
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

**9.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



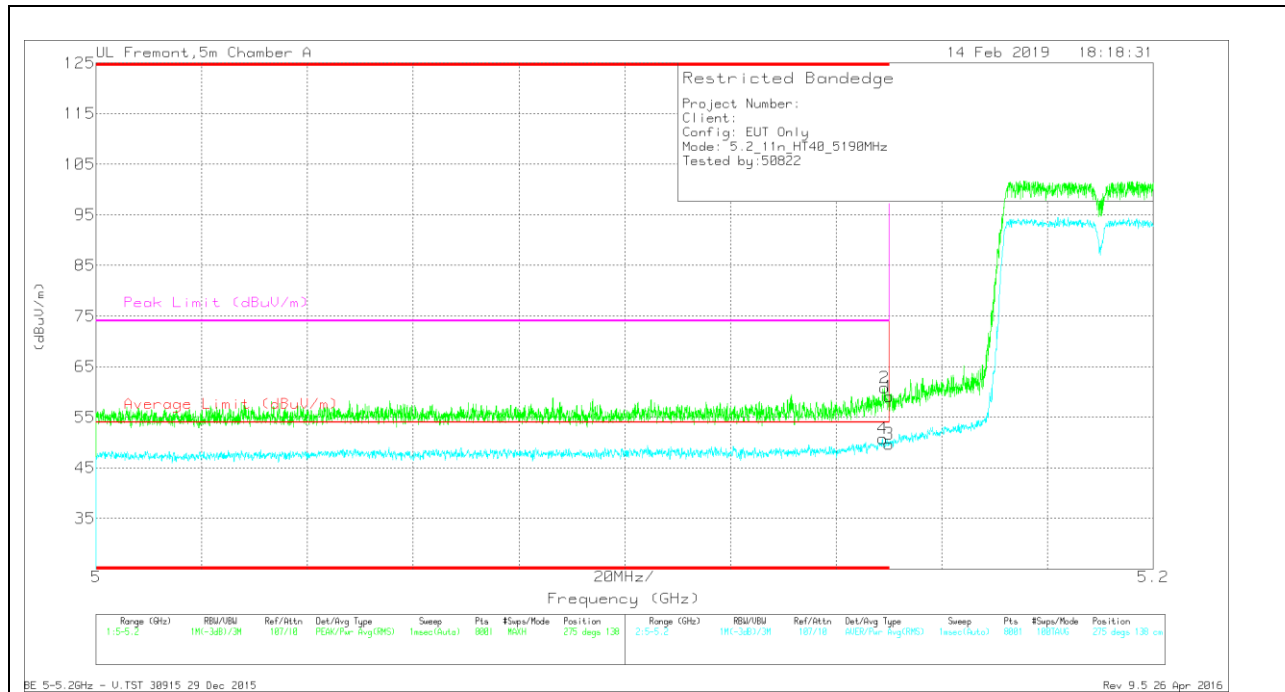
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	39.84	Pk	34.3	-18.8	0	55.34	-	-	74	-18.66	305	146	H
2	* 5.059	44.19	Pk	34.1	-18.9	0	59.39	-	-	74	-14.61	305	146	H
3	5.15	31.61	RMS	34.3	-18.8	.09	47.2	54	-6.8	-	-	305	146	H
4	* 5.075	33.35	RMS	34.2	-18.8	.09	48.84	54	-5.16	-	-	305	146	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT

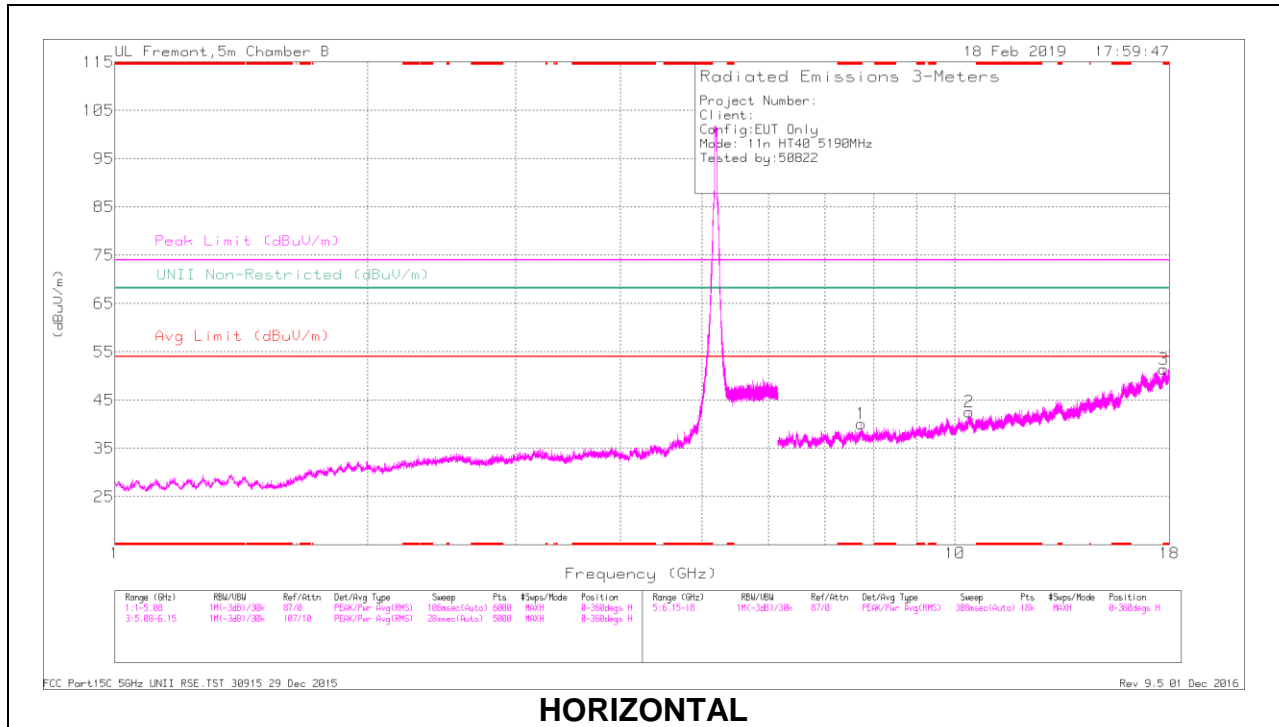


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cou/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	43.65	Pk	34.3	-18.8	0	59.15	-	-	74	-14.85	275	138	V
2	* 5.149	45.45	Pk	34.2	-18.8	0	60.85	-	-	74	-13.15	275	138	V
3	5.15	34.14	RMS	34.3	-18.8	.09	49.73	54	-4.27	-	-	275	138	V
4	* 5.149	35.35	RMS	34.2	-18.8	.09	50.84	54	-3.16	-	-	275	138	V

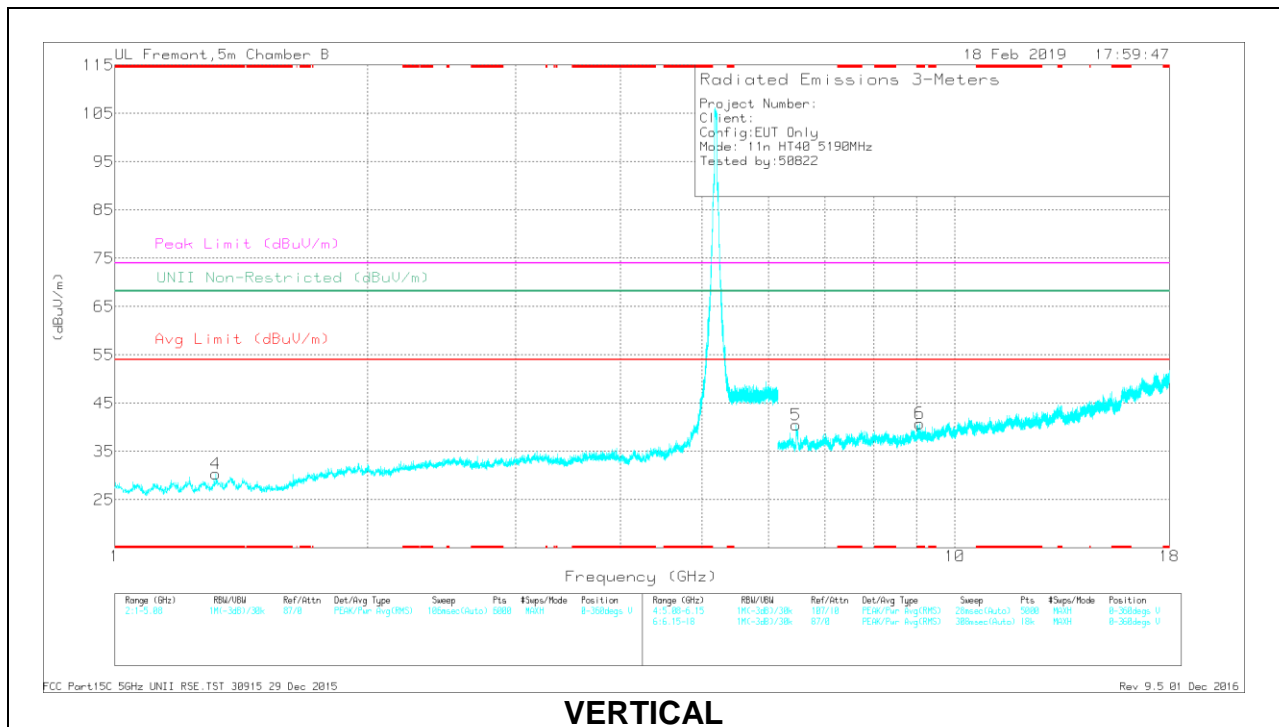
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

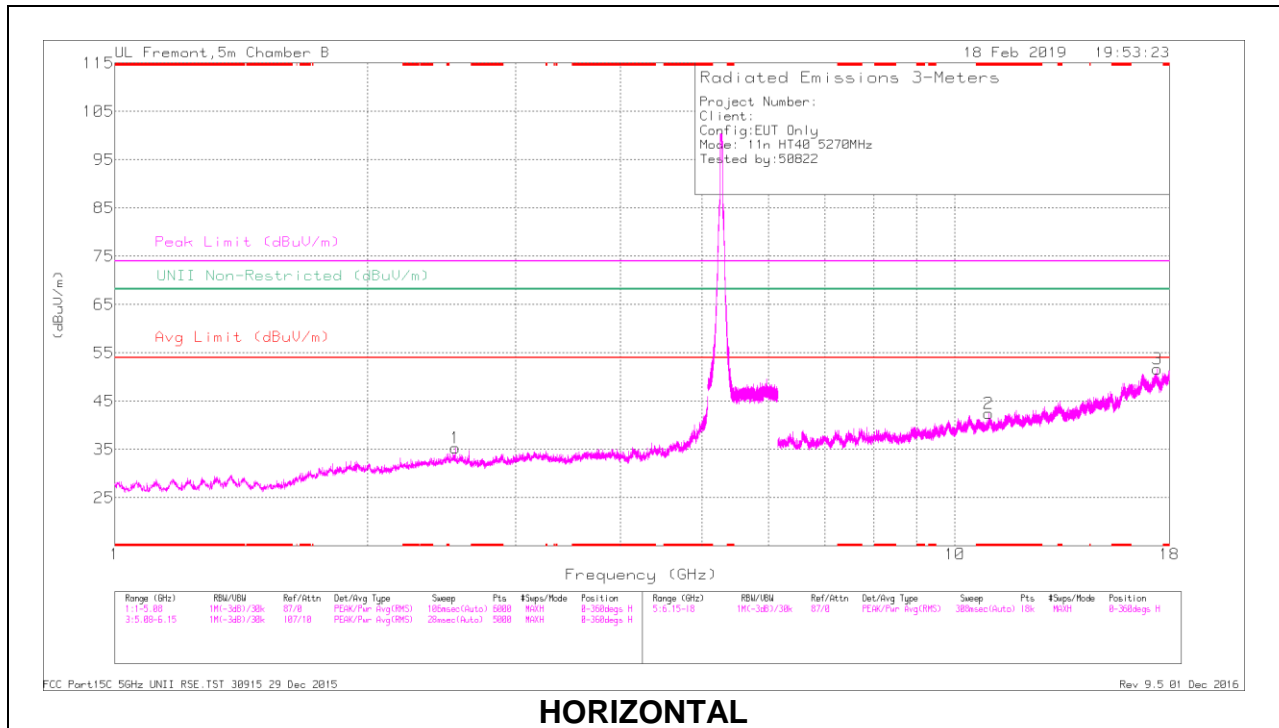
Marker	Frequency (GHz)	Meter Reading (dBµV)	Det	AF T863 (dB/m)	Amp/Chl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Avg Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	UNII Non-Restricted (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.318	42.44	PK-U	28.4	-34	0	36.84	-	-	74	-37.16	-	-	354	102	V
	* 1.319	30.01	ADR	28.4	-33.9	.09	24.6	54	-29.4	-	-	-	-	354	102	V
1	* 7.737	36.1	PK-U	36.4	-26	0	46.5	-	-	74	-27.5	-	-	163	102	H
	* 7.733	23.49	ADR	36.4	-25.9	.09	34.08	54	-19.92	-	-	-	-	163	102	H
3	* 17.727	32.92	PK-U	44	-17.4	0	59.52	-	-	74	-14.48	-	-	6	104	H
	* 17.728	16.95	ADR	44	-17.4	.09	43.64	54	-10.36	-	-	-	-	6	104	H
6	* 9.077	34.39	PK-U	36.8	-24.6	0	46.59	-	-	74	-27.41	-	-	3	105	V
	* 9.08	21.26	ADR	36.8	-24.7	.09	33.45	54	-20.55	-	-	-	-	3	105	V
5	6.472	40.98	PK-U	35.7	-28.3	0	48.38	-	-	-	-	68.2	-19.82	346	190	V
2	10.388	33.5	PK-U	37.9	-22.3	0	49.1	-	-	-	-	68.2	-19.1	60	140	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

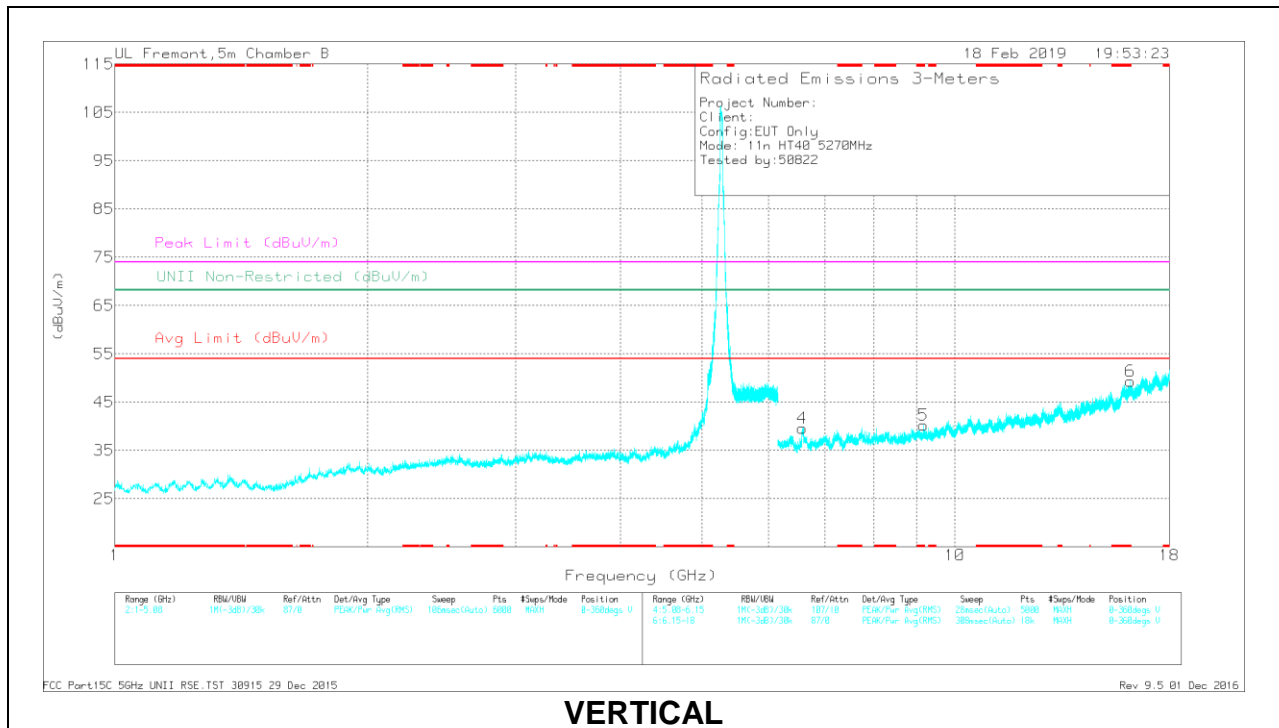
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBµV)	Det	AF T863 (dB/m)	Amp/Chi/Fbr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Avg Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	LINI Non-Restricted (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 10.971	32.96	PK-U	38	-22.2	0	48.76	-	-	74	-25.24	-	-	308	191	H
	* 10.969	19.18	ADR	38	-22.2	.09	35.07	54	-18.93	-	-	-	-	308	191	H
5	* 9.174	34.36	PK-U	36.8	-24.6	0	46.56	-	-	74	-27.44	-	-	92	104	V
	* 9.173	21.14	ADR	36.8	-24.6	.09	33.43	54	-20.57	-	-	-	-	92	104	V
6	* 16.172	31.79	PK-U	43	-18.7	0	56.09	-	-	74	-17.91	-	-	130	106	V
	* 16.173	17.67	ADR	43	-18.6	.09	42.16	54	-11.84	-	-	-	-	130	106	V
1	2.541	40.2	PK-U	32.7	-31.8	0	41.1	-	-	-	-	68.2	-27.1	198	273	H
	6.577	39.95	PK-U	35.6	-28.1	0	47.45	-	-	-	-	68.2	-20.75	158	321	V
3	17.404	32.38	PK-U	44.1	-17.4	0	59.08	-	-	-	-	68.2	-9.12	148	157	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

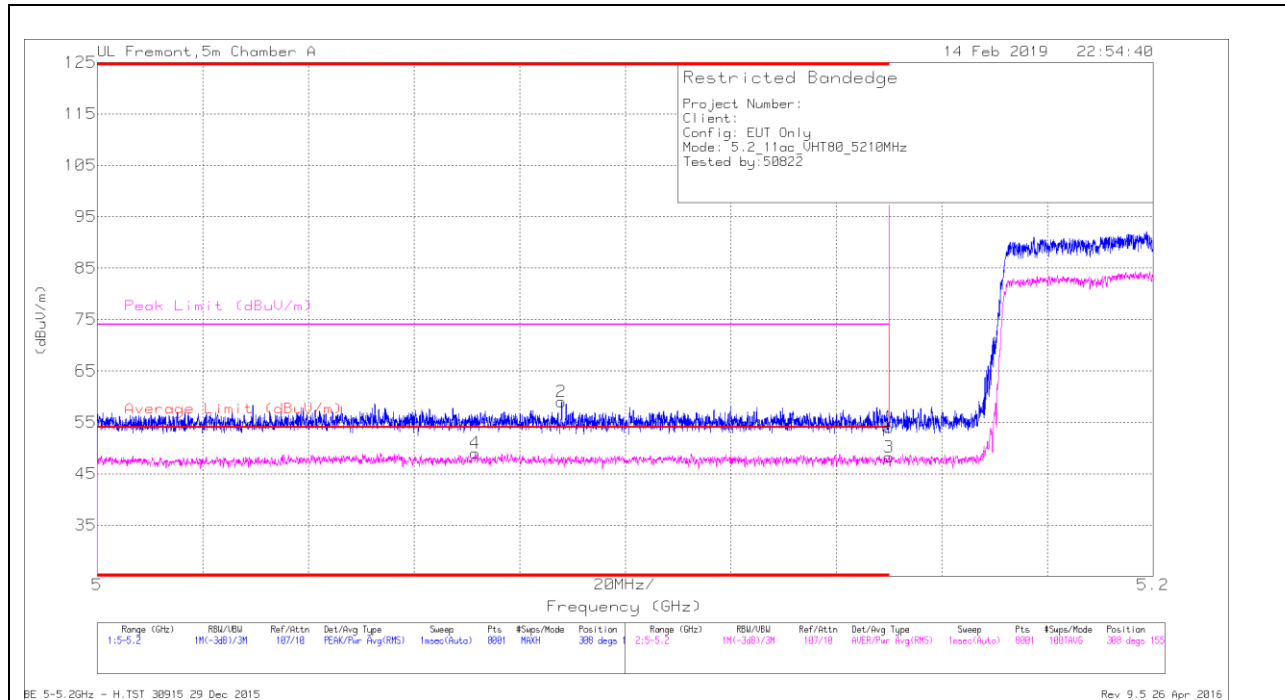
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

**9.1.3. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Asimuth (Degs)	Height (cm)	Polarity
1	5.15	38.55	Pk	34.3	-18.8	0	54.05	-	-	74	-19.95	308	155	H
2	* 5.088	43.58	Pk	34.2	-18.8	0	58.98	-	-	74	-15.02	308	155	H
3	5.15	32.52	RMS	34.3	-18.8	21	48.23	54	-5.77	-	-	308	155	H
4	* 5.072	33.41	RMS	34.2	-18.8	21	49.02	54	-4.98	-	-	308	155	H

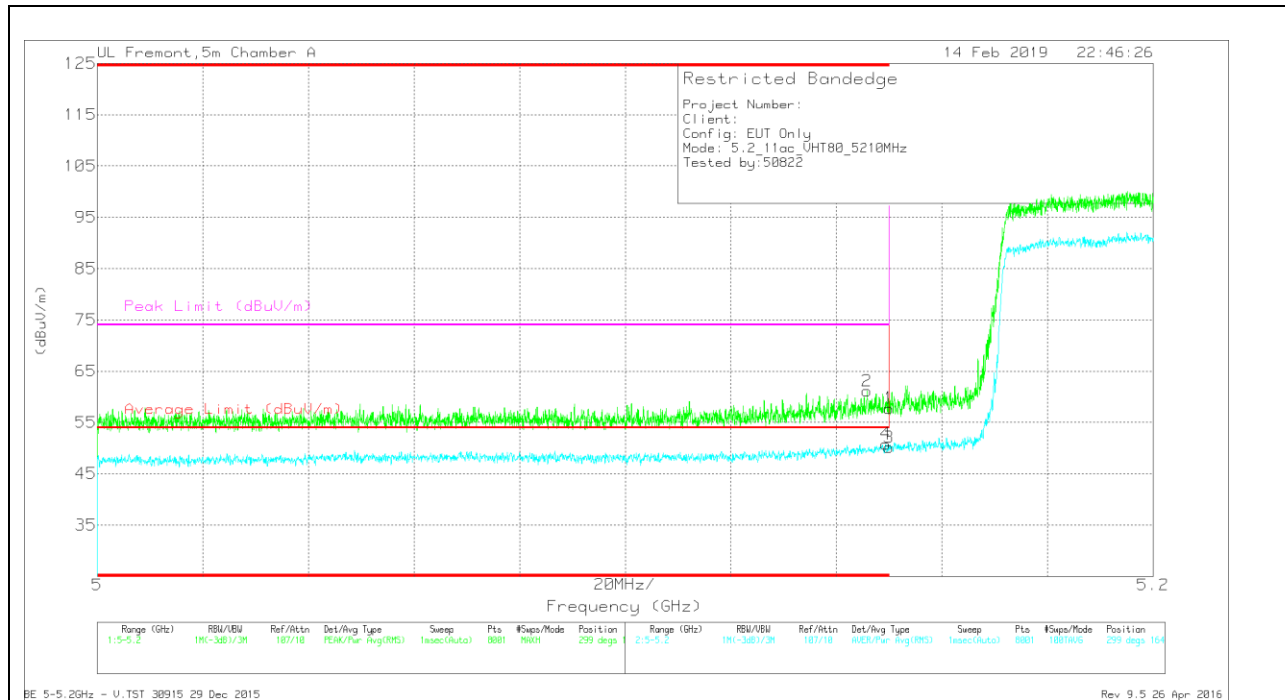
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection



### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Ch/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.15	42.26	Pk	34.3	-18.8	0	57.76	-	-	74	-16.24	299	164	V
2	* 5.146	45.74	Pk	34.2	-18.8	0	61.14	-	-	74	-12.86	299	164	V
3	5.15	34.4	RMS	34.3	-18.8	.21	50.11	54	-3.89	-	-	299	164	V
4	* 5.149	35.19	RMS	34.2	-18.8	.21	50.8	54	-3.2	-	-	299	164	V

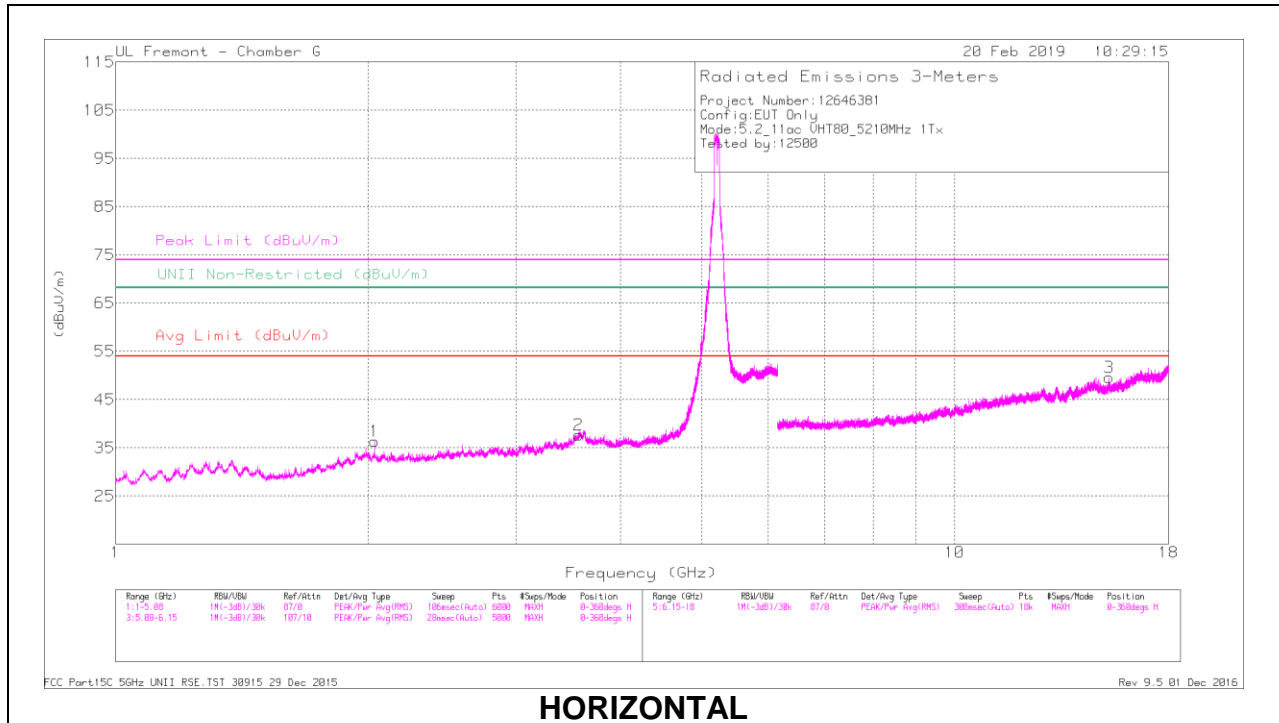
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

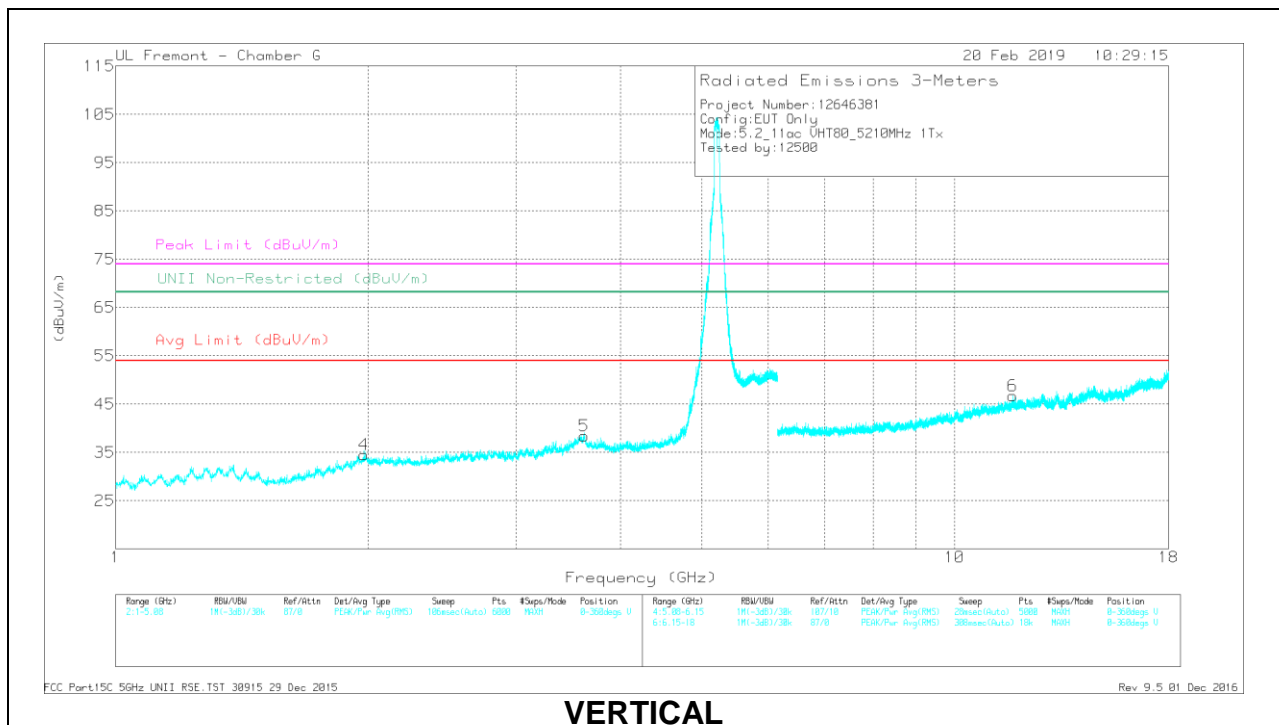
RMS - RMS detection

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

### RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBµV)	Det	AF 1120 (dB/m)	Amp/Chl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBµV/m)	Avg Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	LNII Non-Restricted (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.561	40.98	PK-U	35.2	-30.1	0	46.08	-	-	74	-27.92	-	-	260	178	H
	* 3.563	28.63	ADR	35.2	-30.1	-21	33.94	54	-20.06	-	-	-	-	260	178	H
5	* 3.621	41.01	PK-U	35.7	-30.5	0	46.21	-	-	74	-27.79	-	-	35	196	V
	* 3.624	29.38	ADR	35.5	-30.5	-21	34.59	54	-19.41	-	-	-	-	35	196	V
6	* 11.747	37.07	PK-U	39.3	-22.9	0	53.47	-	-	74	-20.53	-	-	322	250	V
	* 11.745	24.84	ADR	39.3	-22.9	-21	41.45	54	-12.55	-	-	-	-	322	250	V
4	1.979	42.64	PK-U	32.1	-32.1	0	42.64	-	-	-	-	68.2	-25.56	21	400	V
1	2.037	41.84	PK-U	32	-32.5	0	41.34	-	-	-	-	68.2	-26.86	205	274	H
3	15.283	36.98	PK-U	40.5	-22.2	0	55.28	-	-	-	-	68.2	-12.92	134	102	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

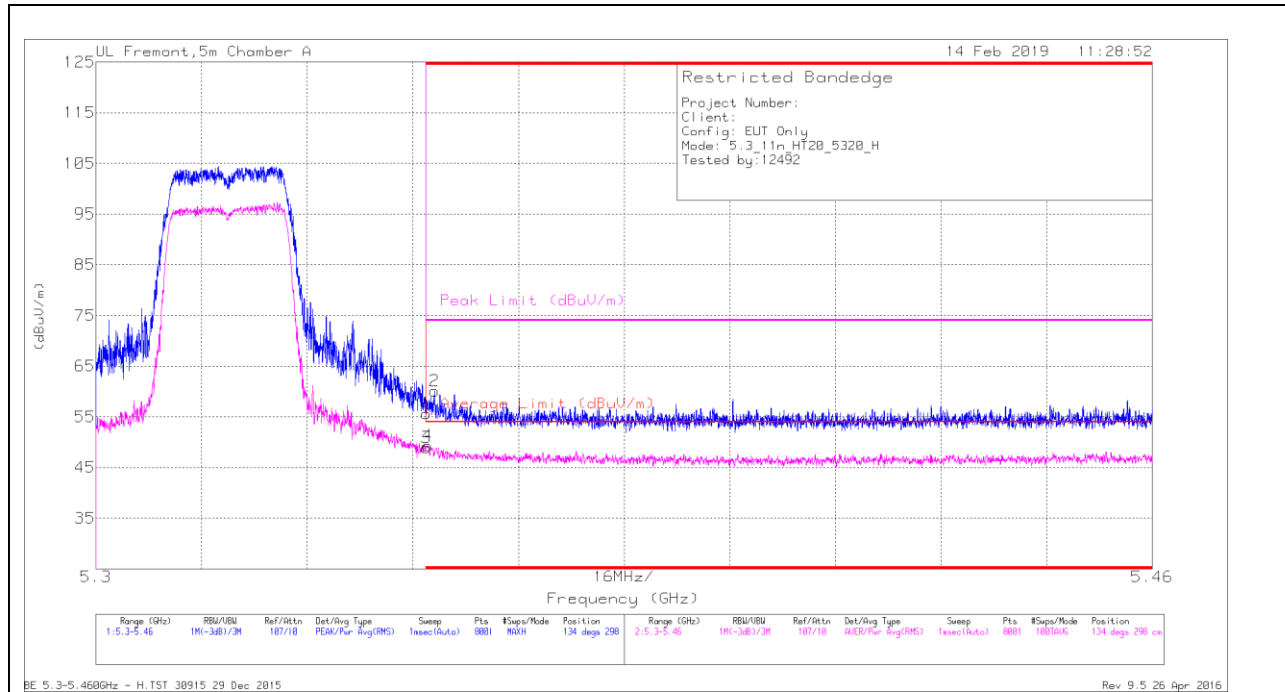
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

**9.1.4. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



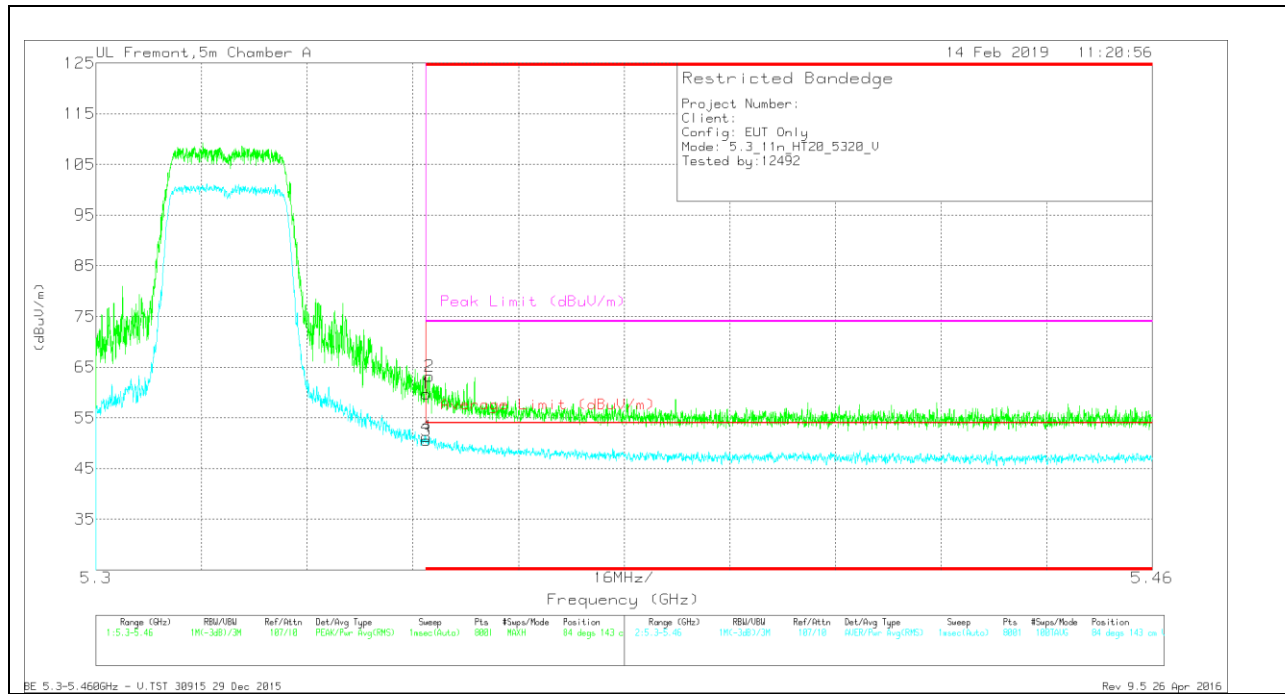
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.63	Pk	34.5	-18.5	55.63	-	-	74	-18.37	134	298	H
2	* 5.351	43.9	Pk	34.6	-18.4	60.1	-	-	74	-13.9	134	298	H
3	* 5.35	32.91	RMS	34.5	-18.5	48.91	54	-5.09	-	-	134	298	H
4	* 5.35	33.31	RMS	34.5	-18.5	49.31	54	-4.69	-	-	134	298	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Ftr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	43.79	Pk	34.5	-18.5	59.79	-	-	74	-14.21	84	143	V
2	* 5.351	46.95	Pk	34.6	-18.4	63.15	-	-	74	-10.85	84	143	V
3	* 5.35	34.51	RMS	34.5	-18.5	50.51	54	-3.49	-	-	84	143	V
4	* 5.35	35.26	RMS	34.5	-18.5	51.26	54	-2.74	-	-	84	143	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection