



# **CERTIFICATION TEST REPORT**

**Report Number. :** 12901678-E5V1

**Applicant :** APPLE, INC.  
1 APPLE PARK WAY  
CUPERTINO, CA 95014, U.S.A.

**Model :** A2161, A2219, AND A2220

**FCC ID :** BCG-E3306A

**EUT Description :** SMARTPHONE

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART E

**Date Of Issue:**  
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## REPORT REVISION HISTORY

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
V1	8/19/2019	Initial Issue	Chris Xiong

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# 1. RADIATED TEST RESULTS

## LIMITS

FCC §15.205 and §15.209 -Restricted bands

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

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
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.

## KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

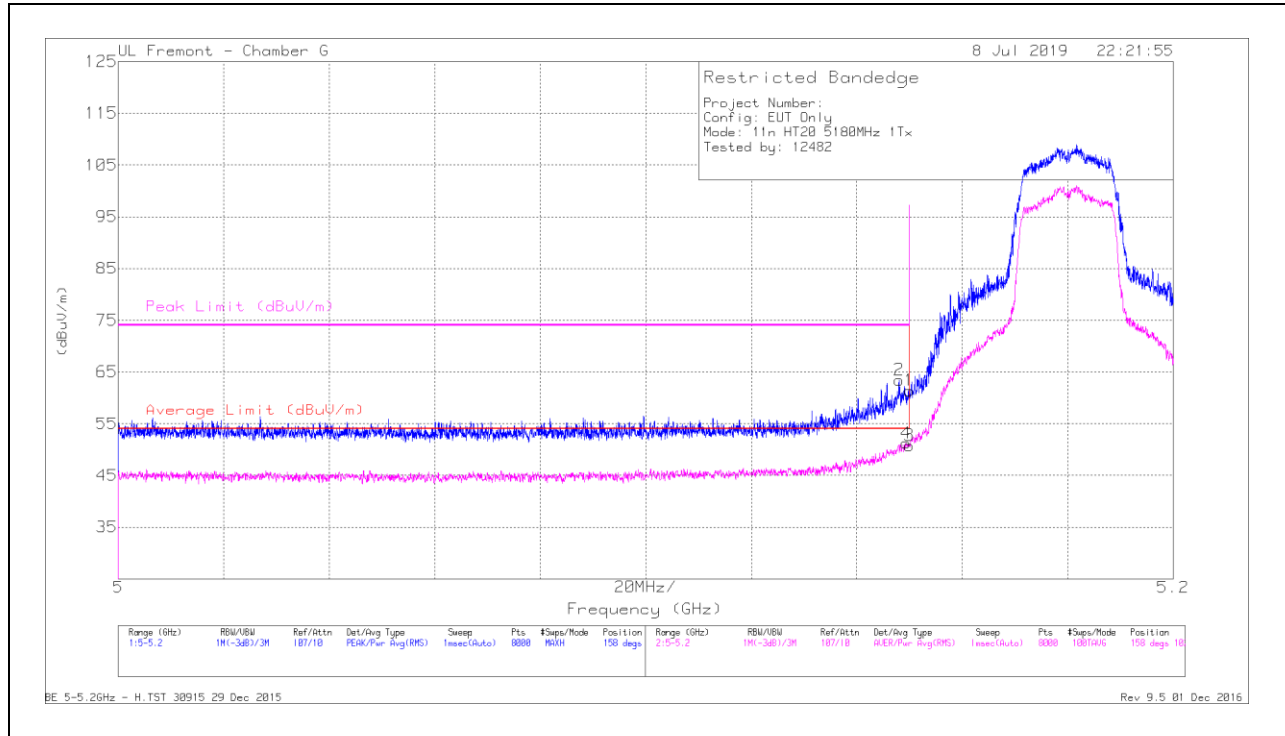
## 1.1. TRANSMITTER ABOVE 1 GHz

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

#### 1TX Antenna 6 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



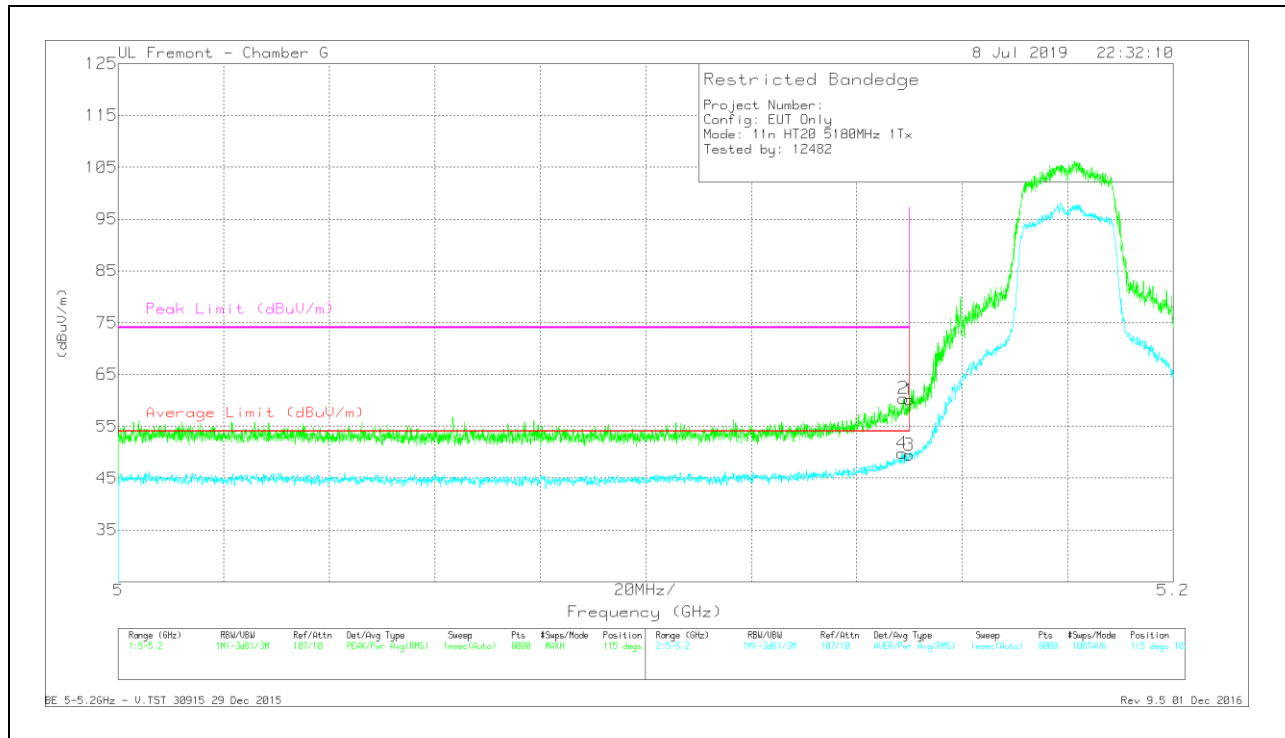
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.4	PK	34.3	-20.3	61.4	-	-	74	-12.6	158	102	H
2	* 5.148	49.46	PK	34.3	-20.3	63.46	-	-	74	-10.54	158	102	H
3	* 5.15	36.8	RMS	34.3	-20.3	50.8	54	-3.2	-	-	158	102	H
4	* 5.149	37.25	RMS	34.3	-20.3	51.25	54	-2.75	-	-	158	102	H

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

PK - Peak detector

RMS - RMS detection

### VERTICAL RESULT



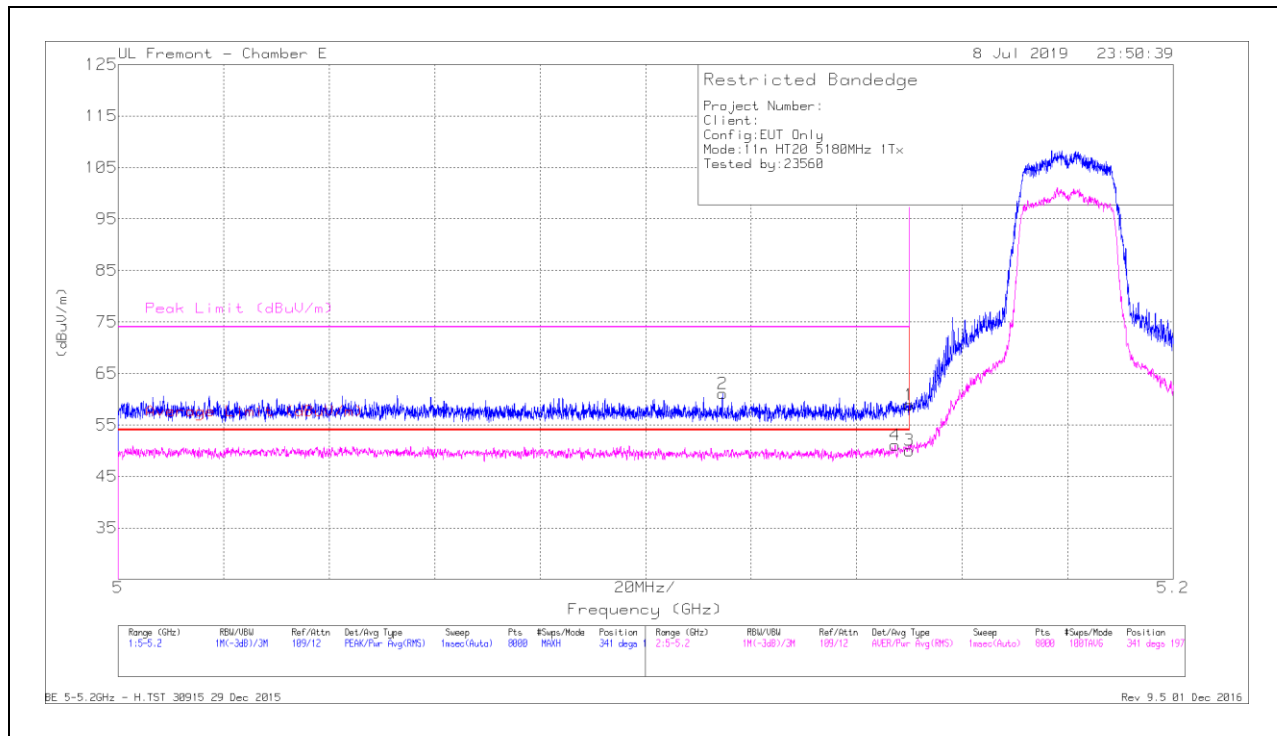
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.12	Pk	34.3	-20.3	60.12	-	-	74	-13.88	115	102	V
2	* 5.149	46.39	Pk	34.3	-20.3	60.39	-	-	74	-13.61	115	102	V
3	* 5.15	35.46	RMS	34.3	-20.3	49.46	54	-4.54	-	-	115	102	V
4	* 5.149	35.8	RMS	34.3	-20.3	49.8	54	-4.2	-	-	115	102	V

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

**1TX Antenna 5 MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



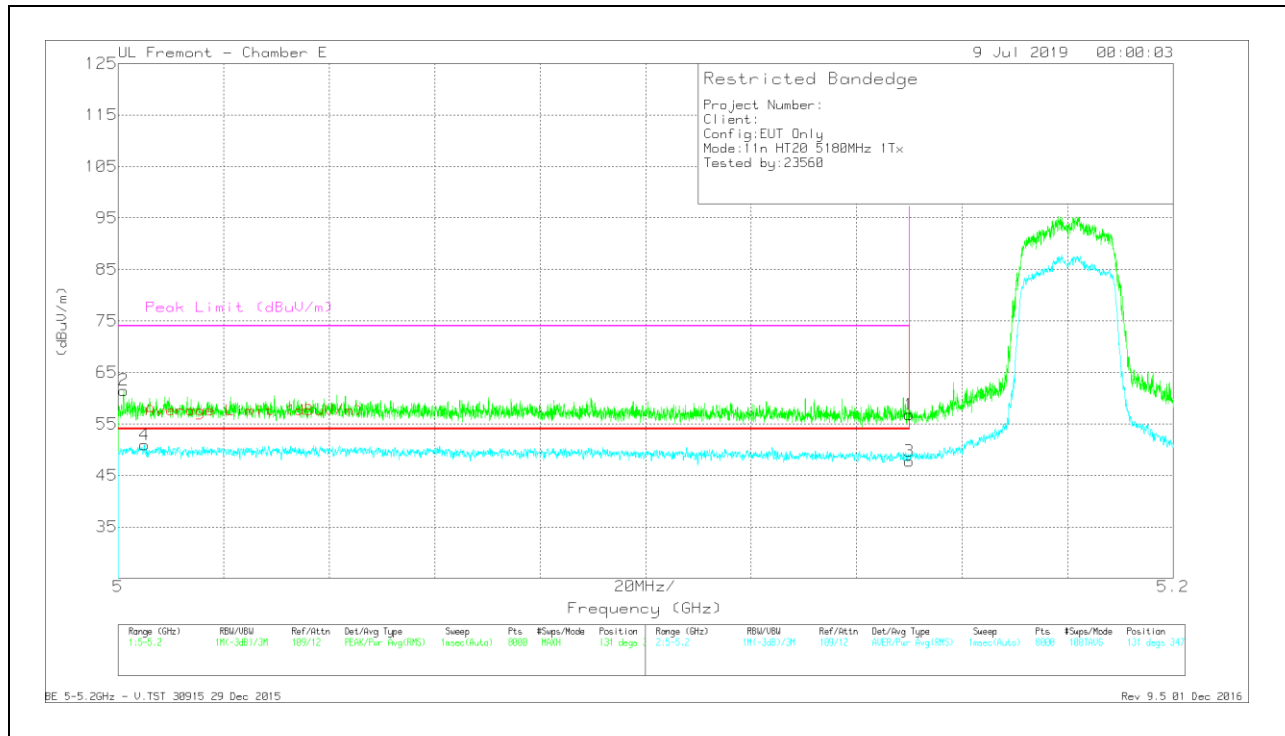
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.19	Pk	34.3	-16.6	58.89	-	-	74	-15.11	341	197	H
2	* 5.115	43.39	Pk	34.2	-16.5	61.09	-	-	74	-12.91	341	197	H
3	* 5.15	32.34	RMS	34.3	-16.6	50.04	54	-3.96	-	-	341	197	H
4	* 5.147	33.47	RMS	34.3	-16.7	51.07	54	-2.93	-	-	341	197	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 T119 (dB/m)	Amp/Cb/Filtr/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	39.1	Pk	34.3	-16.6	56.8	-	-	74	-17.2	131	347	V
2	* 5.001	43.5	PK	34.1	-16.1	61.5	-	-	74	-12.5	131	347	V
3	* 5.15	30.03	RMS	34.3	-16.6	47.73	54	-6.27	-	-	131	347	V
4	* 5.005	32.92	RMS	34.1	-16.1	50.92	54	-3.08	-	-	131	347	V

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

Pk - Peak detector

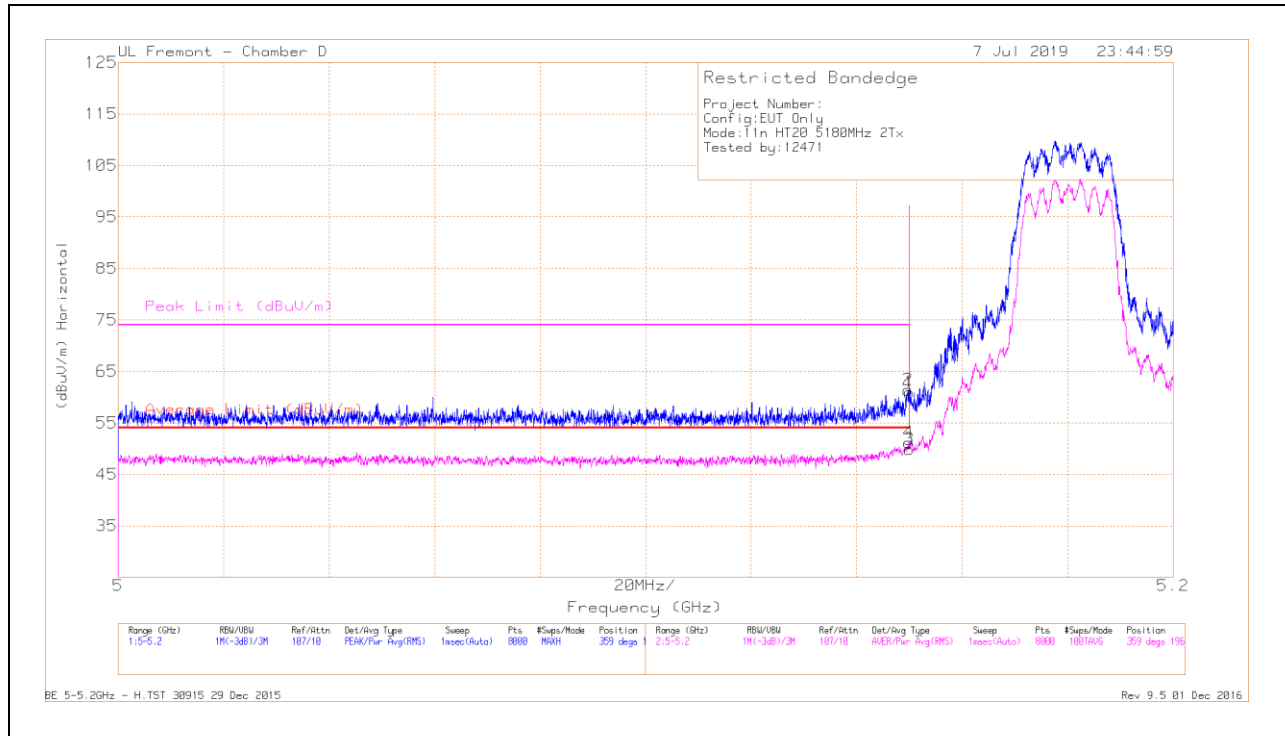
RMS - RMS detection



**2TX Antenna 6 + Antenna 5 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



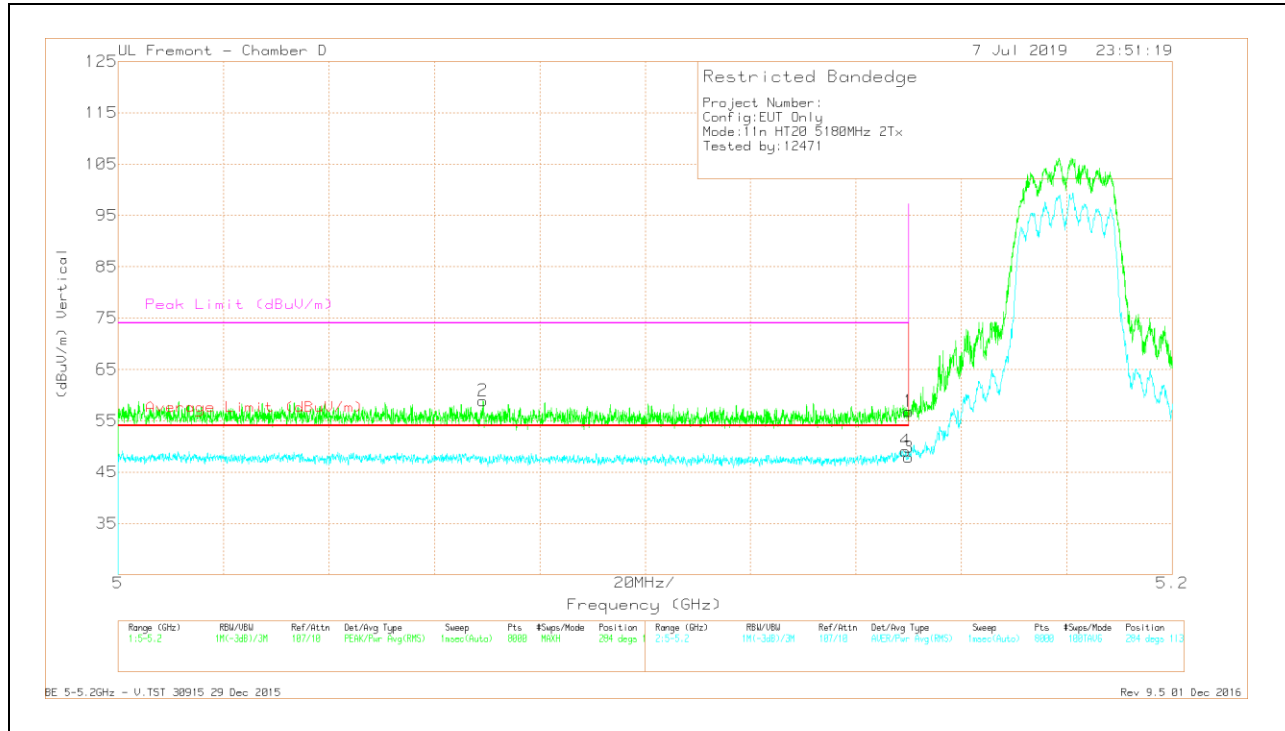
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.21	Pk	34.1	-18.4	60.91	-	-	74	-13.09	359	196	H
2	* 5.15	45.69	Pk	34.1	-18.4	61.39	-	-	74	-12.61	359	196	H
3	* 5.15	34.17	RMS	34.1	-18.4	49.87	54	-4.13	-	-	359	196	H
4	* 5.15	35.47	RMS	34.1	-18.4	51.17	54	-2.83	-	-	359	196	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 T712 (dB/m)	Amp/Cb/Filtr/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	41.13	Pk	34.1	-18.4	56.83	-	-	74	-17.17	284	113	V
2	* 5.069	43.03	Pk	34	-18.1	58.93	-	-	74	-15.07	284	113	V
3	* 5.15	32.15	RMS	34.1	-18.4	47.85	54	-6.15	-	-	284	113	V
4	* 5.149	33.47	RMS	34.1	-18.4	49.17	54	-4.83	-	-	284	113	V

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

Pk - Peak detector

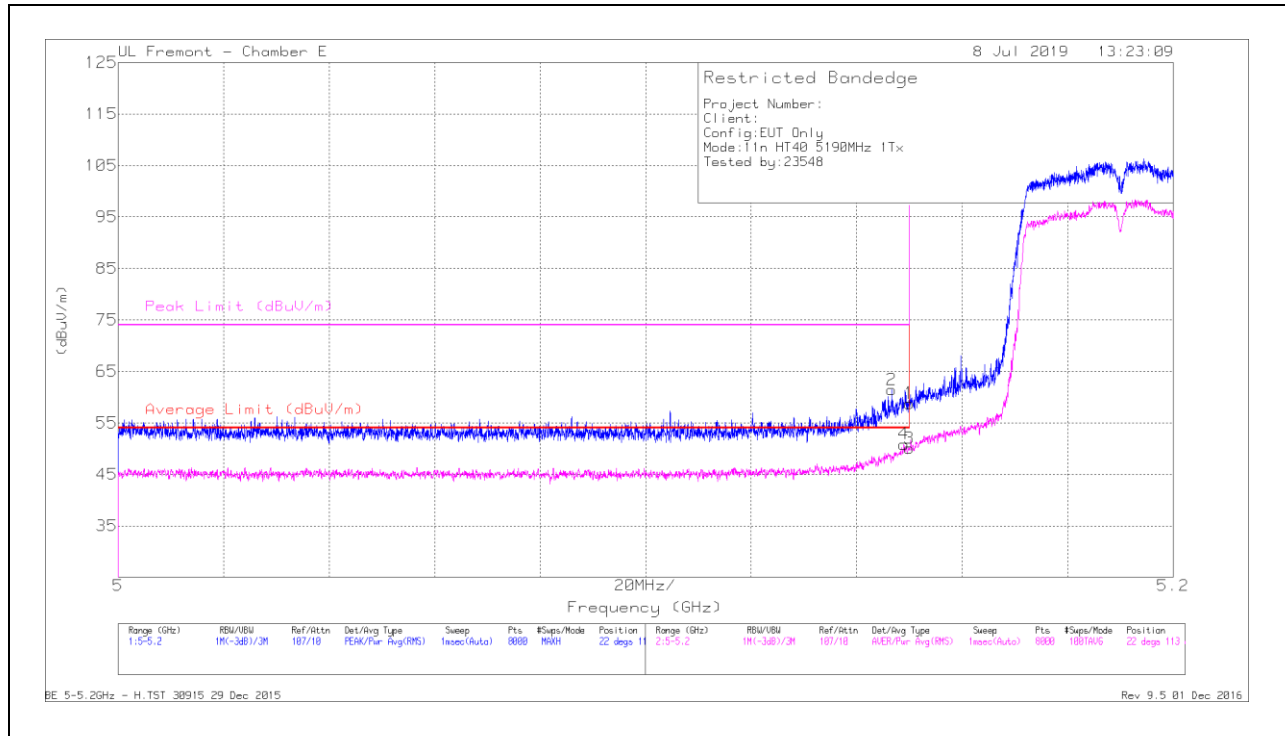
RMS - RMS detection

### 1.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



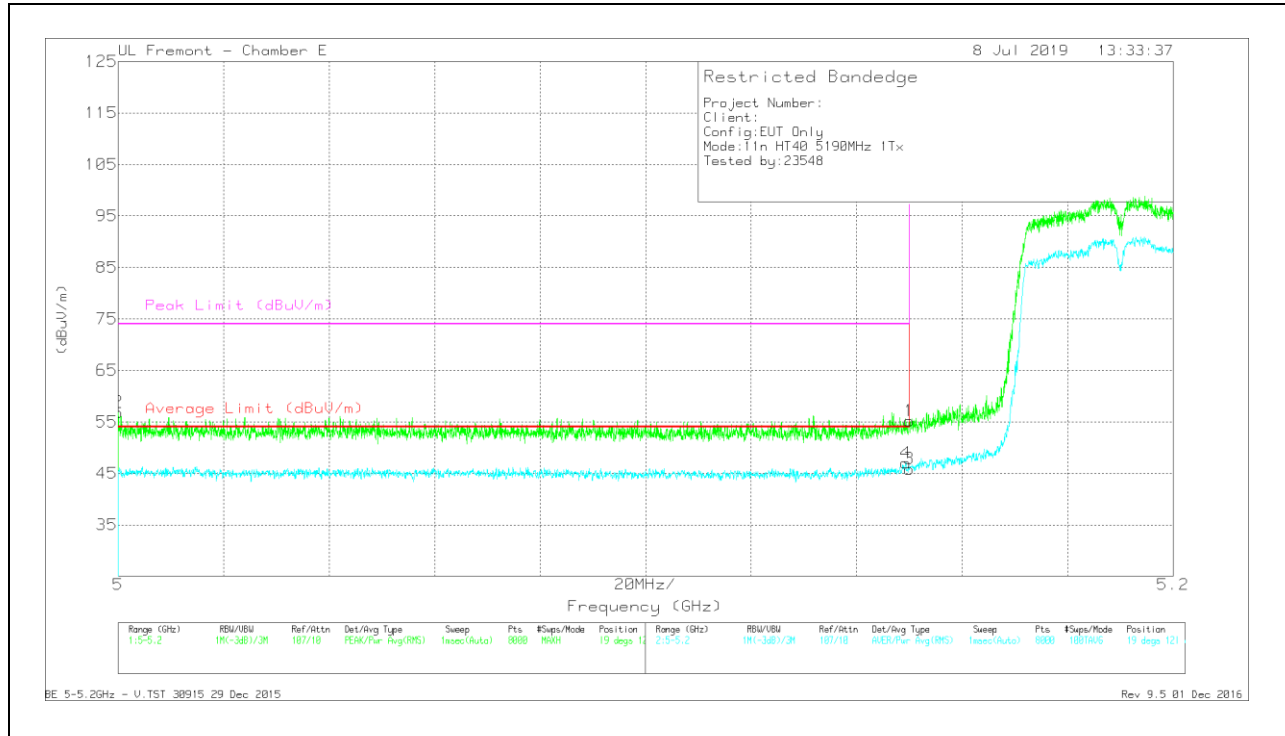
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.48	Pk	34.3	-22	0	58.78	-	-	74	-15.22	22	113	H
2	* 5.147	49.15	Pk	34.3	-22	0	61.45	-	-	74	-12.55	22	113	H
3	* 5.15	37.78	RMS	34.3	-22	.1	50.18	54	-3.82	-	-	22	113	H
4	* 5.149	38.58	RMS	34.3	-22	.1	50.98	54	-3.02	-	-	22	113	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



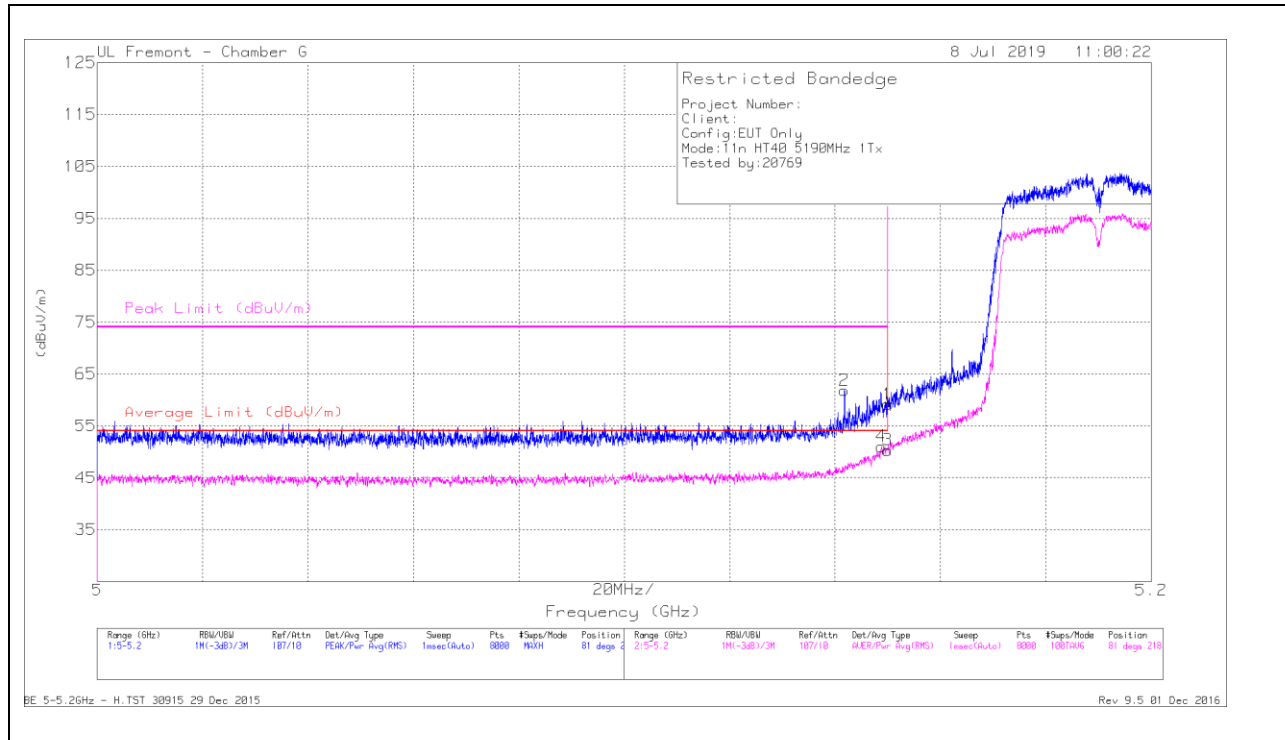
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.89	Pk	34.3	-22	0	55.19	-	-	74	-18.81	19	121	V
2	* 5	44.55	Pk	34.1	-21.8	0	56.85	-	-	74	-17.15	19	121	V
3	* 5.15	33.56	RMS	34.3	-22	.1	45.96	54	-8.04	-	-	19	121	V
4	* 5.149	34.74	RMS	34.3	-22	.1	47.14	54	-6.86	-	-	19	121	V

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

**1TX Antenna 5 MODE**

**BANDEDGE (LOW CHANNEL)**

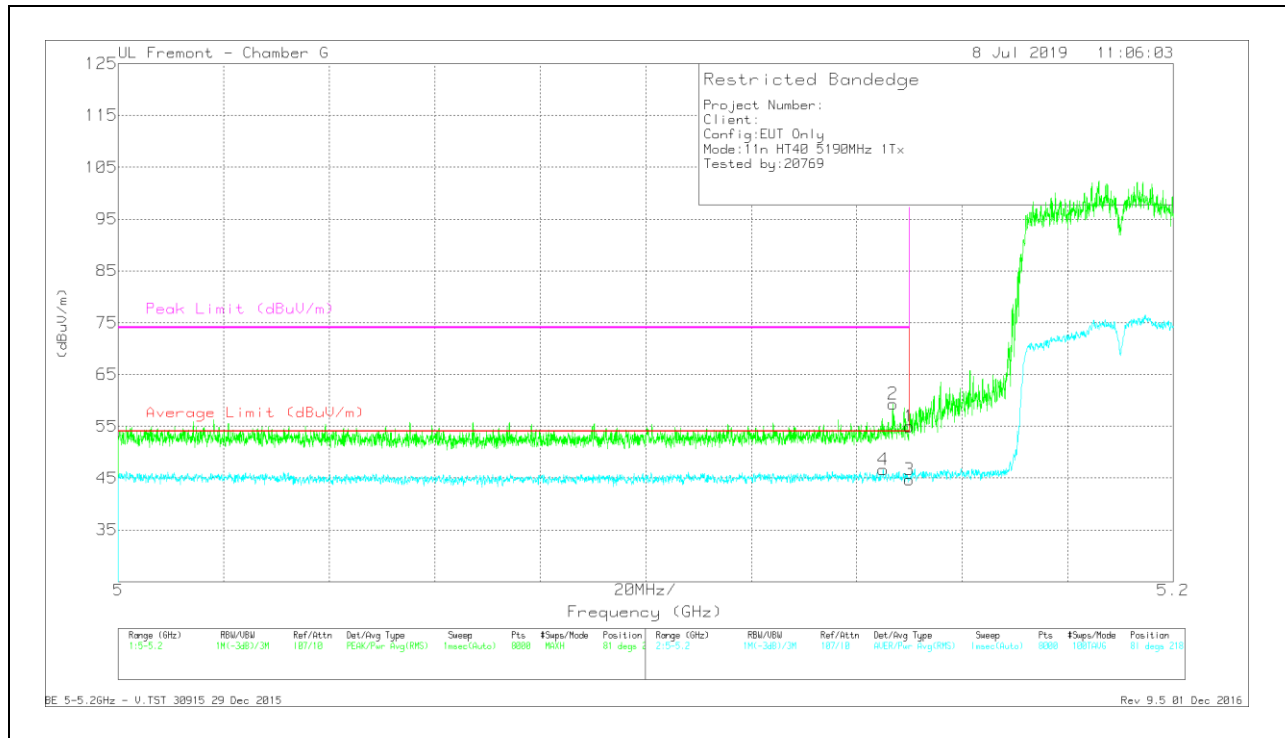
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr/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	45.14	Pk	34.3	-20.3	0	59.14	-	-	74	-14.86	81	218	H
2	* 5.142	47.73	Pk	34.4	-20.3	0	61.83	-	-	74	-12.17	81	218	H
3	* 5.15	36.34	RMS	34.3	-20.3	.1	50.44	54	-3.56	-	-	81	218	H
4	* 5.149	37.03	RMS	34.3	-20.3	.1	51.13	54	-2.87	-	-	81	218	H

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

### VERTICAL RESULT



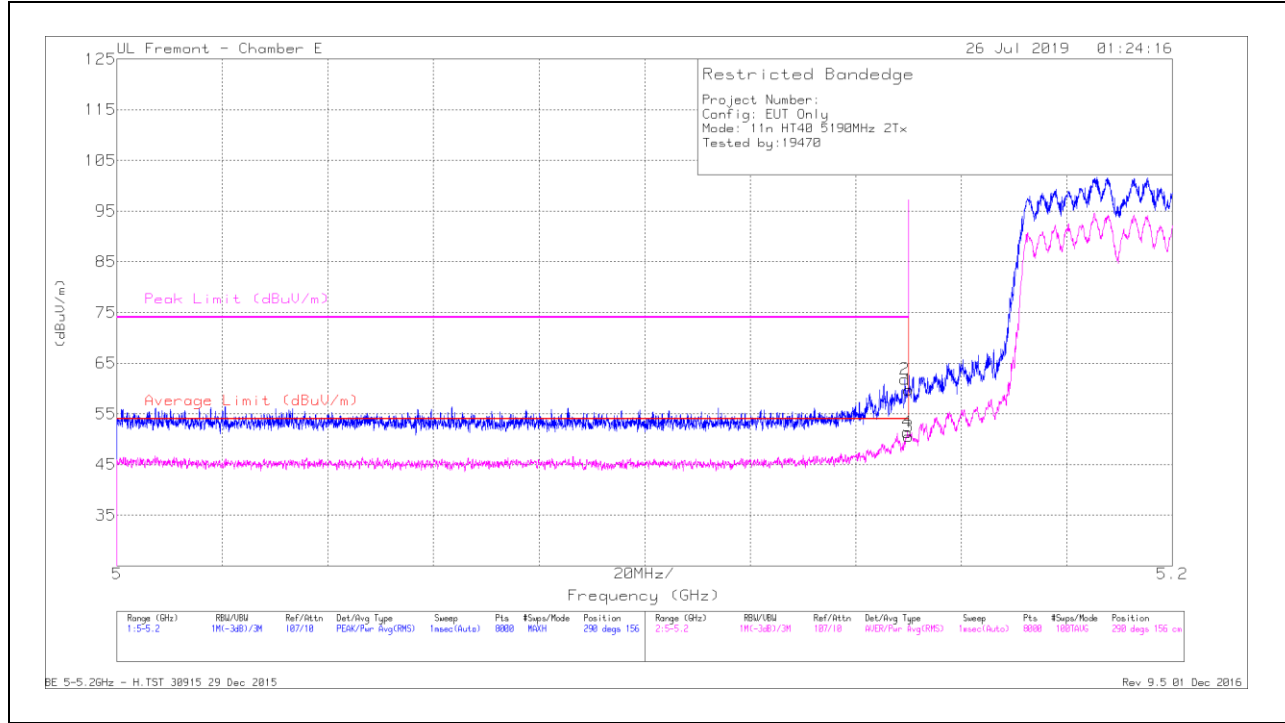
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	40.99	Pk	34.3	-20.3	0	54.99	-	-	74	-19.01	81	218	V
2	* 5.147	45.31	Pk	34.3	-20.3	0	59.31	-	-	74	-14.69	81	218	V
3	* 5.15	30.69	RMS	34.3	-20.3	.1	44.79	54	-9.21	-	-	81	218	V
4	* 5.145	32.64	RMS	34.3	-20.3	.1	46.74	54	-7.26	-	-	81	218	V

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

**2TX Antenna 6 + Antenna 5 CDD MODE**

**BANDEDGE (LOW CHANNEL)**

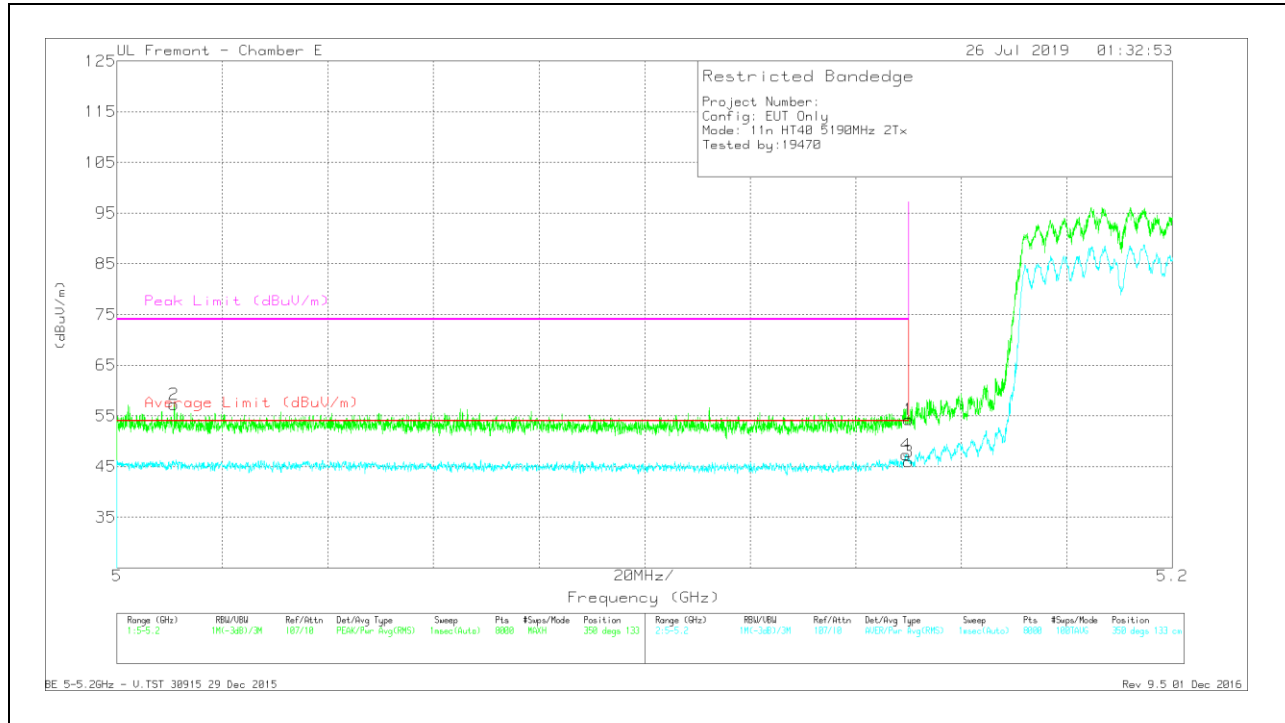
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fitr/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	47.41	Pk	34.3	-22	0	59.71	-	-	74	-14.29	290	156	H
2	* 5.149	49.52	Pk	34.3	-22	0	61.82	-	-	74	-12.18	290	156	H
3	* 5.15	38.23	RMS	34.3	-22	.09	50.62	54	-3.38	-	-	290	156	H
4	* 5.15	39.05	RMS	34.3	-22	.09	51.44	54	-2.56	-	-	290	156	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 T119 (dB/m)	Amp/Cb/Filtr/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	41.94	Pk	34.3	-22	0	54.24	-	-	74	-19.76	350	133	V
2	* 5.011	44.94	Pk	34.1	-21.8	0	57.24	-	-	74	-16.76	350	133	V
3	* 5.15	33.67	RMS	34.3	-22	.09	46.06	54	-7.94	-	-	350	133	V
4	* 5.149	35.05	RMS	34.3	-22	.09	47.44	54	-6.56	-	-	350	133	V

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

Pk - Peak detector

RMS - RMS detection

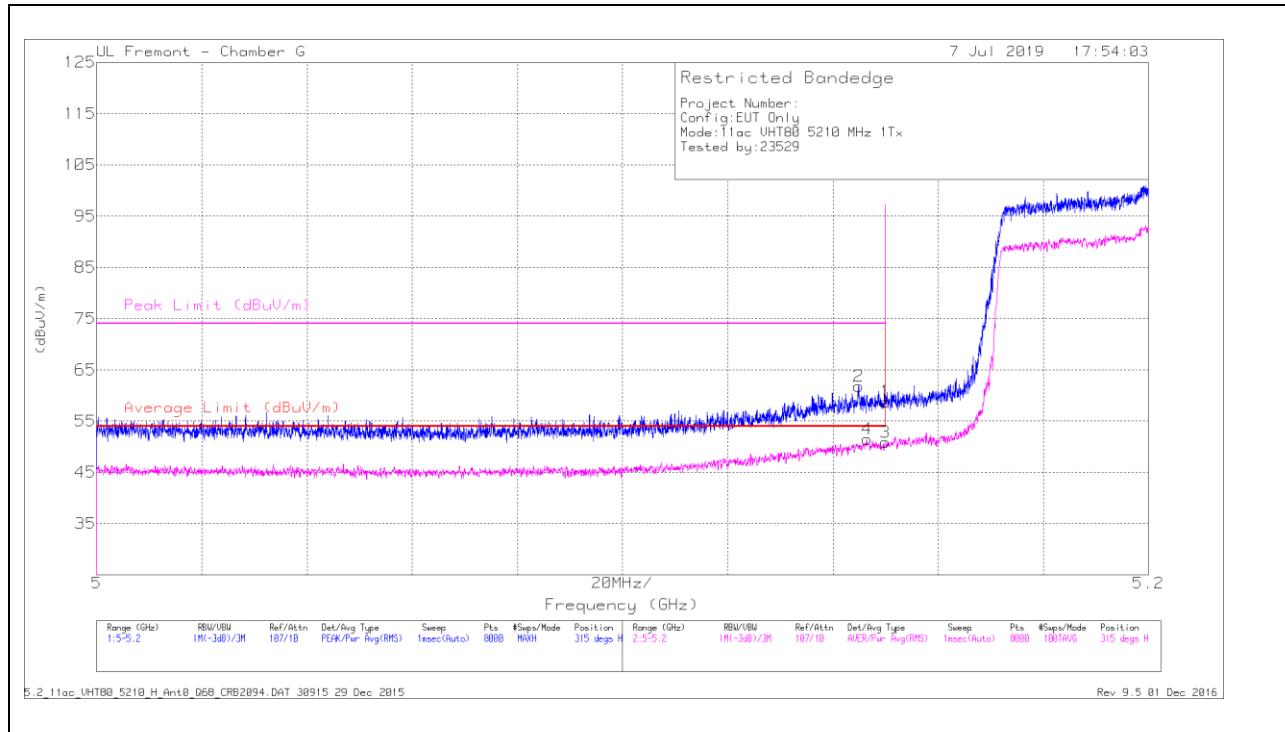


### 1.1.3. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 6 MODE

#### BANDEDGE (MID CHANNEL)

#### HORIZONTAL RESULT



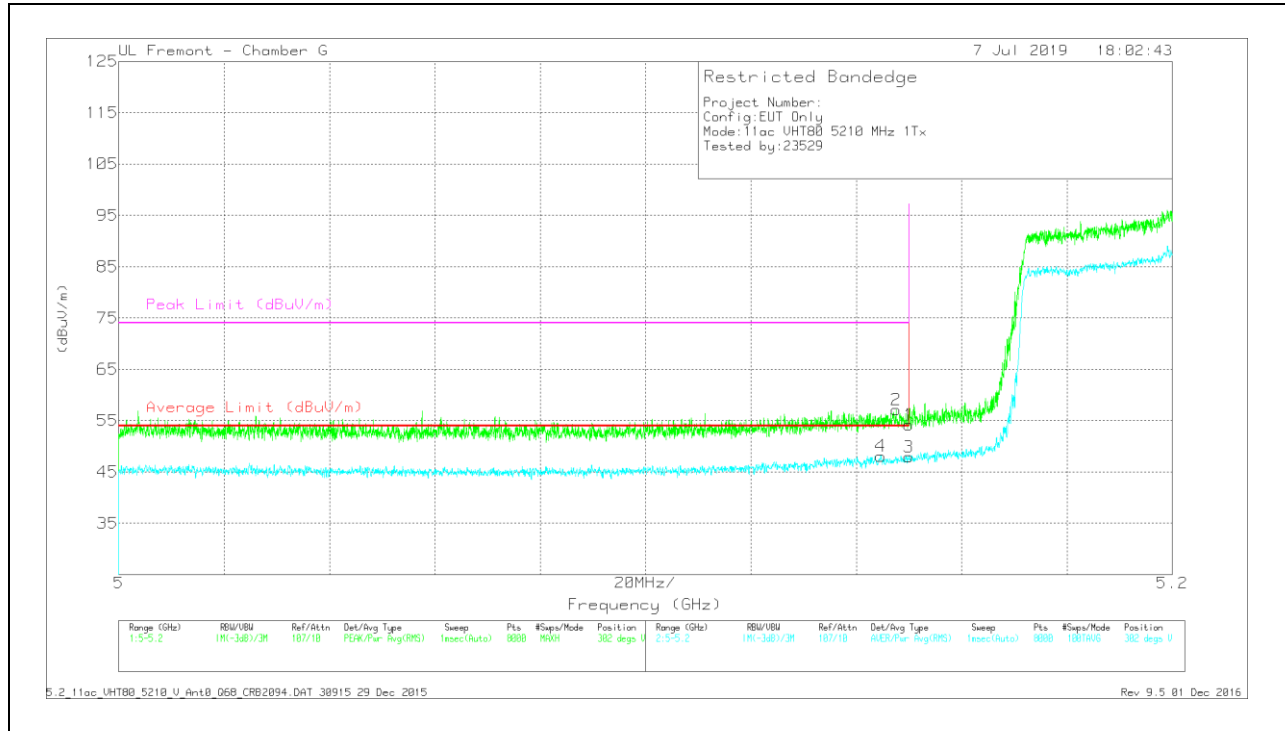
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.77	Pk	34.3	-20.3	0	58.77	-	-	74	-15.23	315	165	H
2	* 5.145	47.79	Pk	34.3	-20.3	0	61.79	-	-	74	-12.21	315	165	H
3	* 5.15	36.67	RMS	34.3	-20.3	.2	50.87	54	-3.13	-	-	315	165	H
4	* 5.146	37.26	RMS	34.3	-20.3	.2	51.46	54	-2.54	-	-	315	165	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



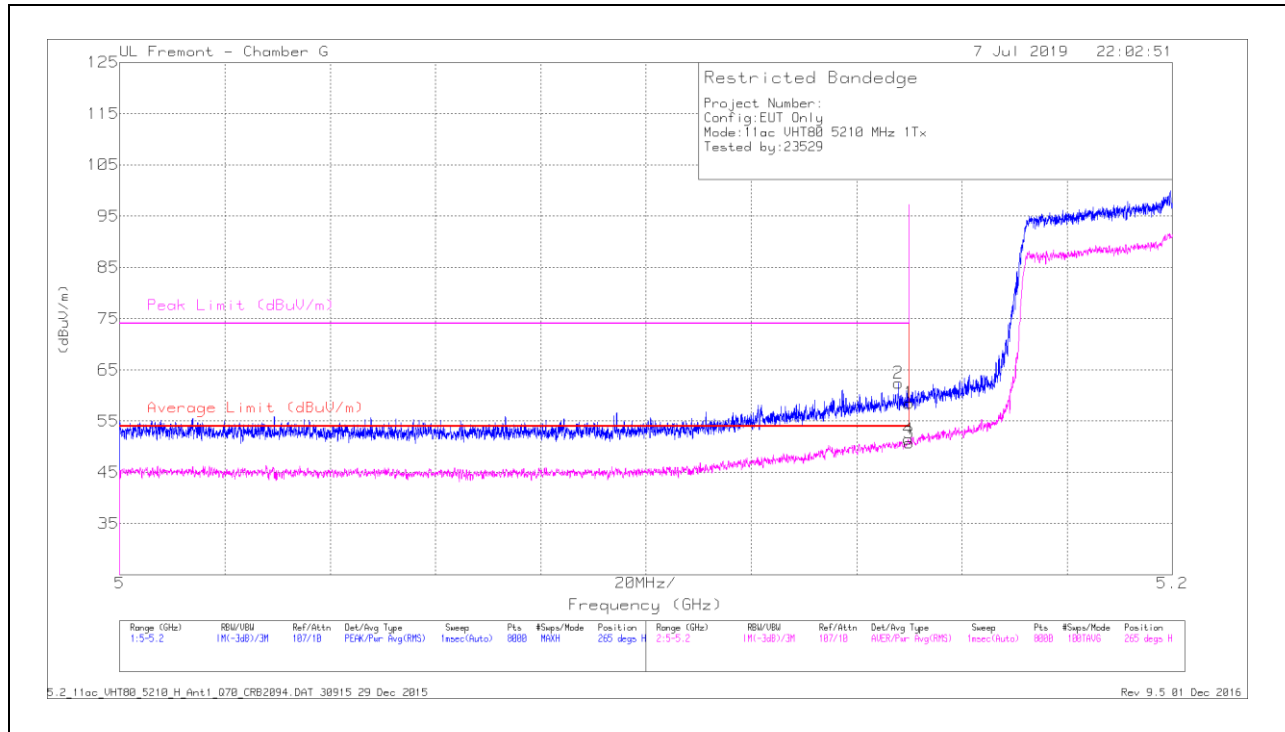
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	40.17	Pk	34.3	-20.3	0	54.17	-	-	74	-19.83	302	115	V
2	* 5.148	43.1	Pk	34.3	-20.3	0	57.1	-	-	74	-16.9	302	115	V
3	* 5.15	33.93	RMS	34.3	-20.3	.2	48.13	54	-5.87	-	-	302	115	V
4	* 5.145	34.09	RMS	34.3	-20.3	.2	48.29	54	-5.71	-	-	302	115	V

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

**1TX Antenna 5 MODE**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



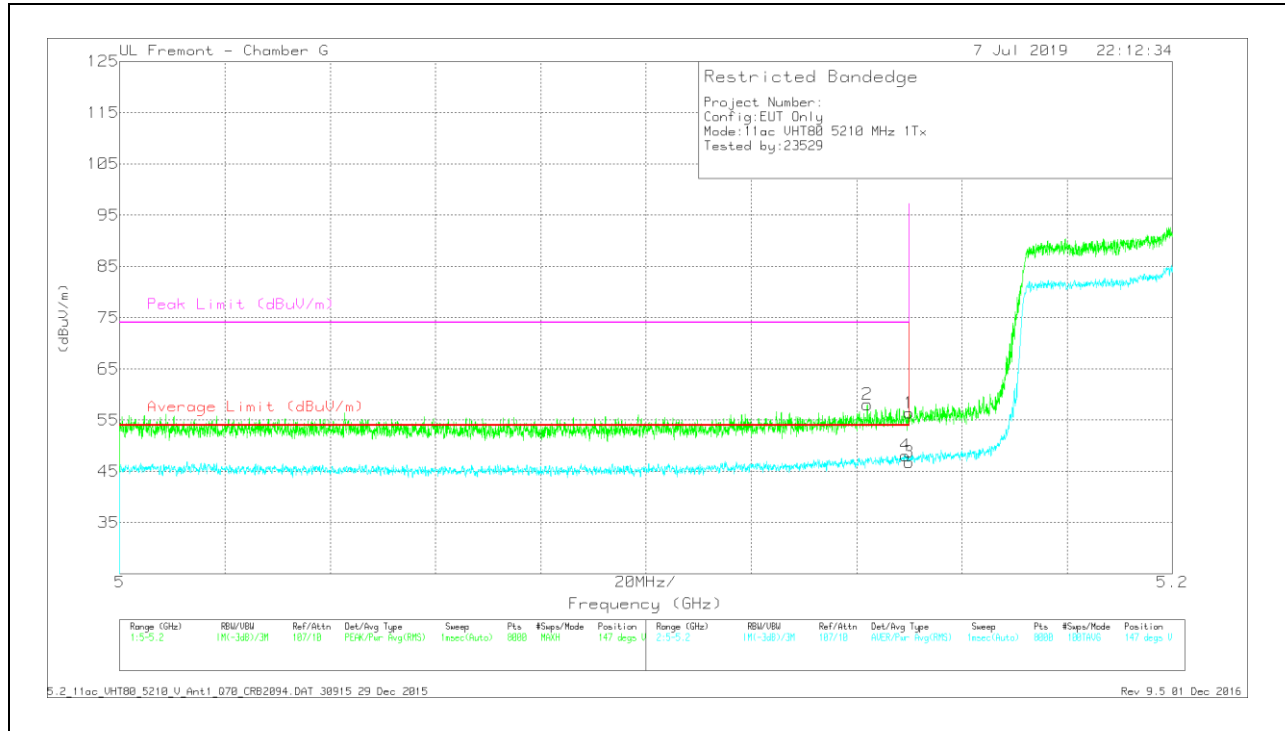
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.53	Pk	34.3	-20.3	0	58.53	-	-	74	-15.47	265	224	H
2	* 5.148	48.43	Pk	34.3	-20.3	0	62.43	-	-	74	-11.57	265	224	H
3	* 5.15	36.55	RMS	34.3	-20.3	.2	50.75	54	-3.25	-	-	265	224	H
4	* 5.15	37.25	RMS	34.3	-20.3	.2	51.45	54	-2.55	-	-	265	224	H

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

Pk - Peak detector

RMS - RMS detection

### VERTICAL RESULT



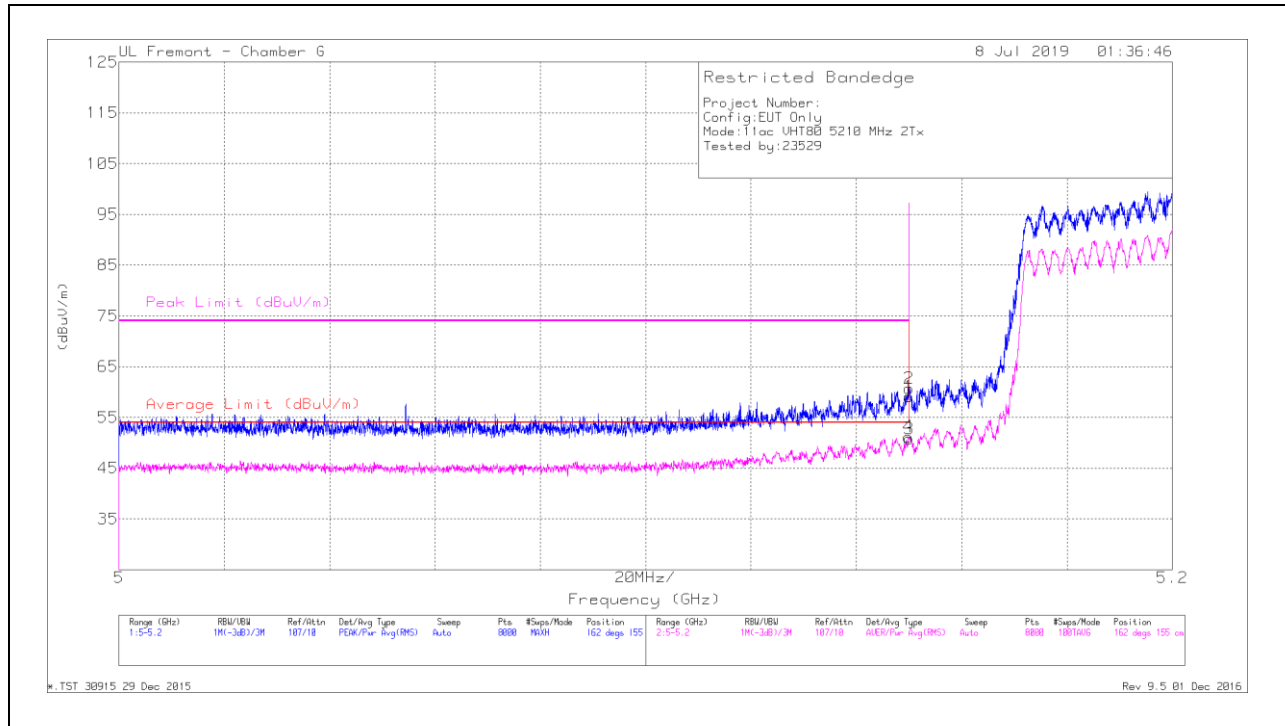
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.142	44.05	Pk	34.3	-20.3	0	58.05	-	-	74	-15.95	147	283	V
4	* 5.149	34.1	RMS	34.3	-20.3	.2	48.3	54	-5.7	-	-	147	283	V
1	* 5.15	42.37	Pk	34.3	-20.3	0	56.37	-	-	74	-17.63	147	283	V
3	* 5.15	32.78	RMS	34.3	-20.3	.2	46.98	54	-7.02	-	-	147	283	V

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

**2TX Antenna 6 + Antenna 5 CDD MODE**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



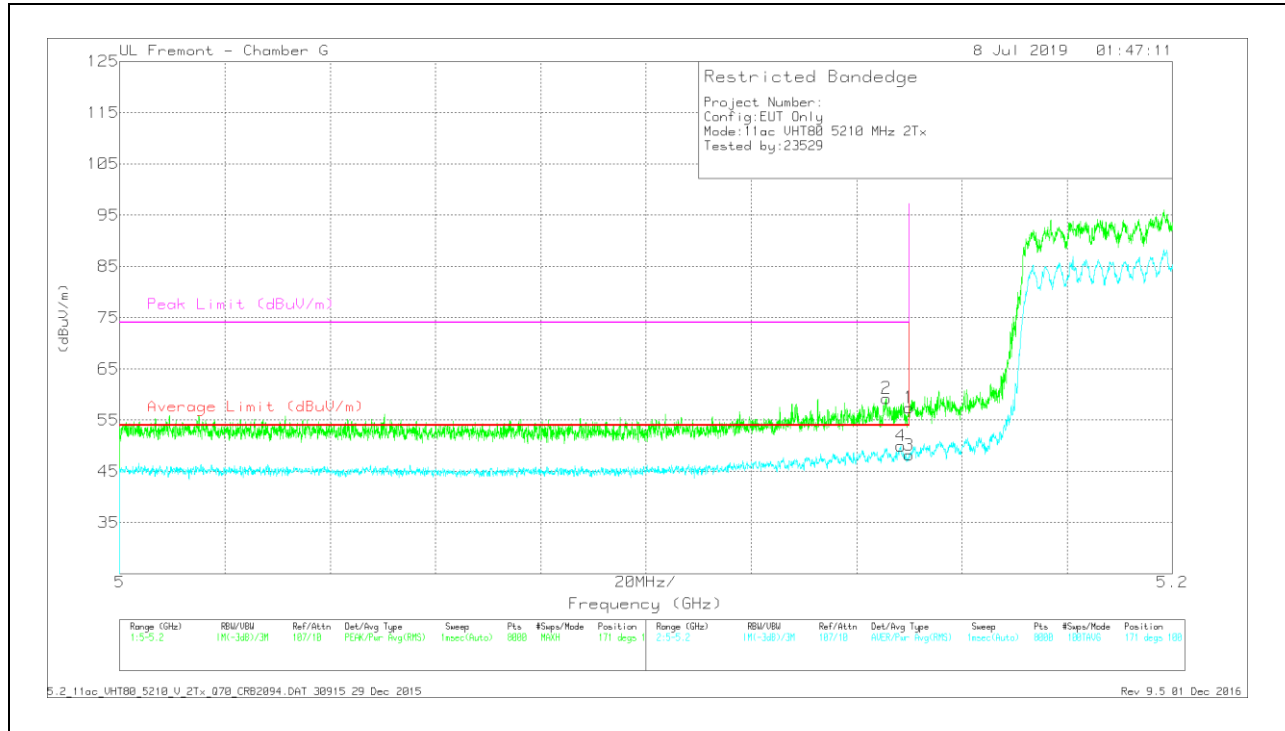
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.09	Pk	34.3	-20.3	0	59.09	-	-	74	-14.91	162	155	H
2	* 5.15	46.74	Pk	34.3	-20.3	0	60.74	-	-	74	-13.26	162	155	H
3	* 5.15	36.62	RMS	34.3	-20.3	.2	50.82	54	-3.18	-	-	162	155	H
4	* 5.15	37.02	RMS	34.3	-20.3	.2	51.22	54	-2.78	-	-	162	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 T136 (dB/m)	Amp/Cb/Filtr/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
2	* 5.146	45.26	Pk	34.3	-20.3	0	59.26	-	-	74	-14.74	171	100	V
4	* 5.148	35.77	RMS	34.3	-20.3	.2	49.97	54	-4.03	-	-	171	100	V
1	* 5.15	43.42	Pk	34.3	-20.3	0	57.42	-	-	74	-16.58	171	100	V
3	* 5.15	33.99	RMS	34.3	-20.3	.2	48.19	54	-5.81	-	-	171	100	V

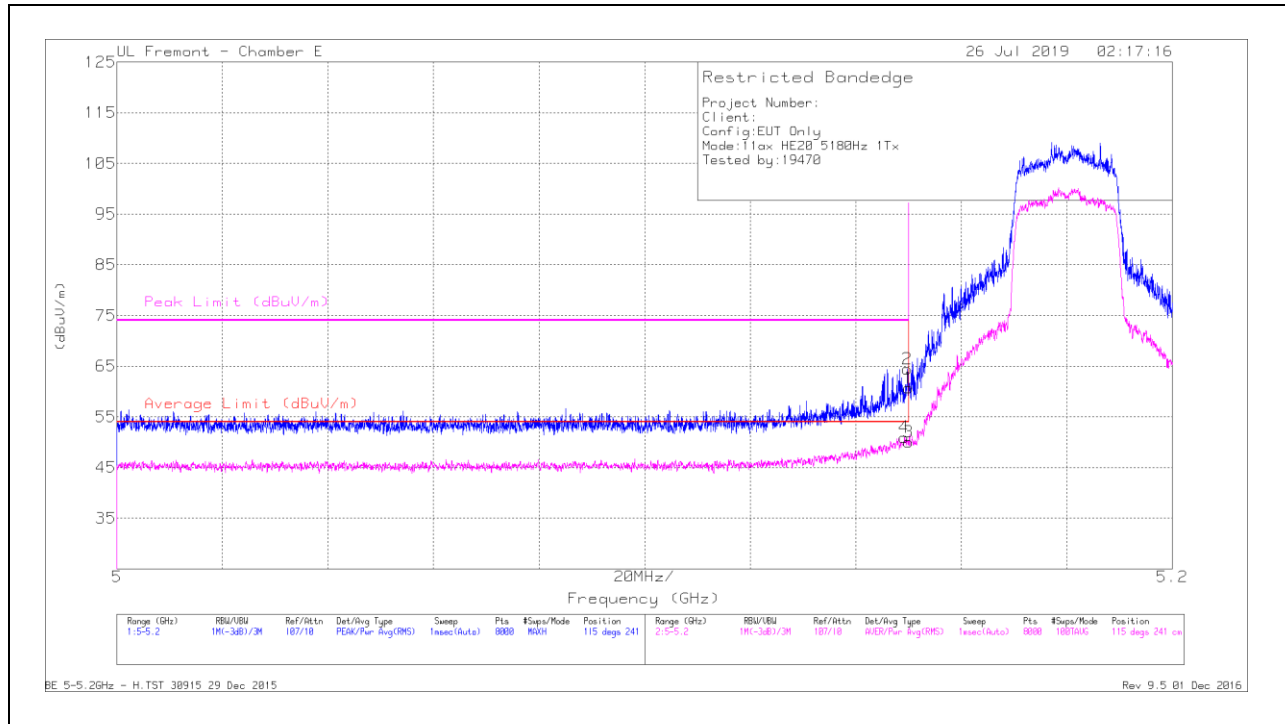
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection

### 1.1.4. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 6 MODE – 242 Tones, RU Index 61

#### BANDEDGE (LOW CHANNEL)

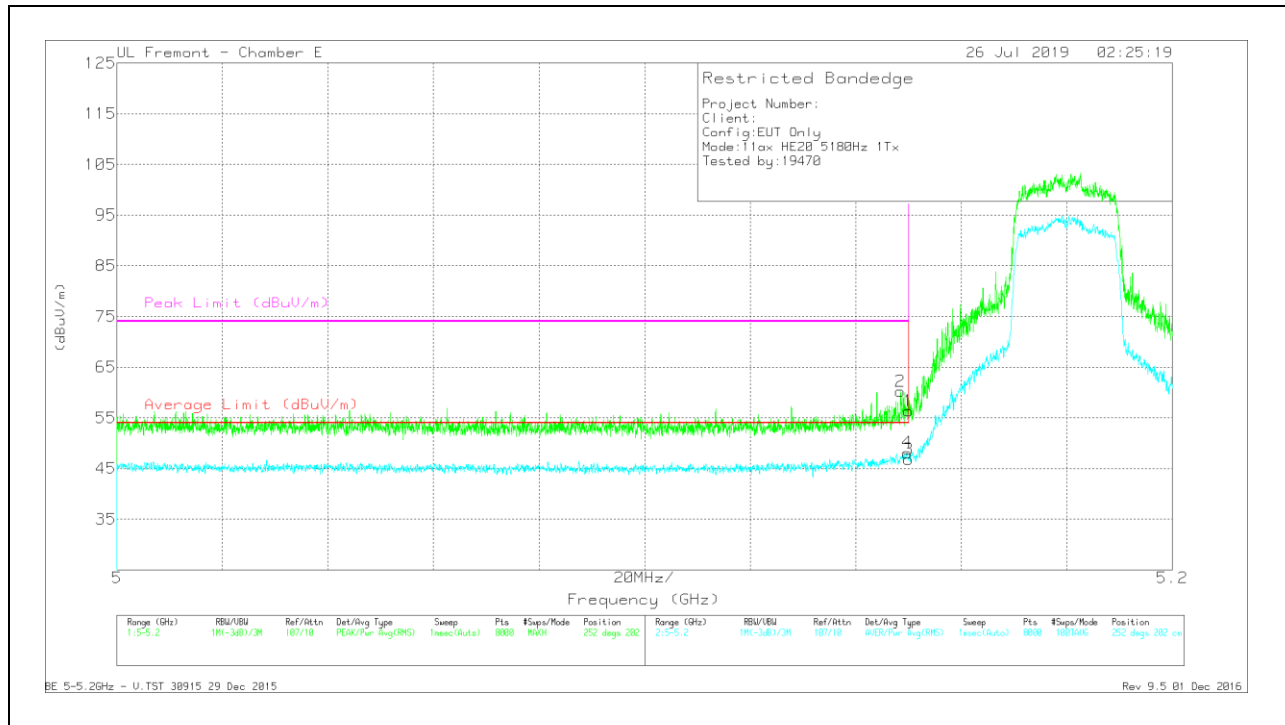
#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/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	48.47	Pk	34.3	-22	60.77	-	-	74	-13.23	115	241	H
2	* 5.15	52.13	Pk	34.3	-22	64.43	-	-	74	-9.57	115	241	H
3	* 5.15	37.73	RMS	34.3	-22	50.03	54	-3.97	-	-	115	241	H
4	* 5.149	38.67	RMS	34.3	-22	50.97	54	-3.03	-	-	115	241	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 T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	47.98	Pk	34.3	-22	60.28	-	-	74	-13.72	252	202	V
1	* 5.15	44.11	Pk	34.3	-22	56.41	-	-	74	-17.59	252	202	V
3	* 5.15	34.5	RMS	34.3	-22	46.8	54	-7.2	-	-	252	202	V
4	* 5.15	35.82	RMS	34.3	-22	48.12	54	-5.88	-	-	252	202	V

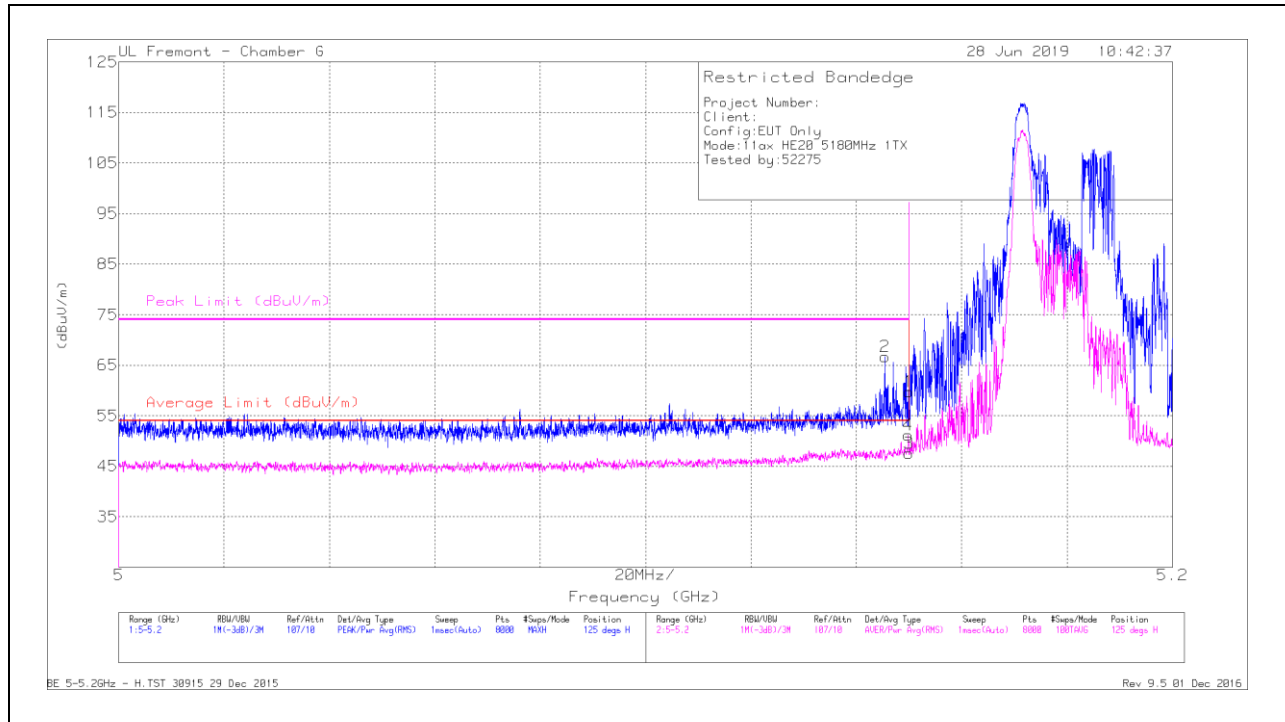
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 Pk - Peak detector  
 RMS - RMS detection



**1TX Antenna 6 MODE – 26 Tones, RU Index 0**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



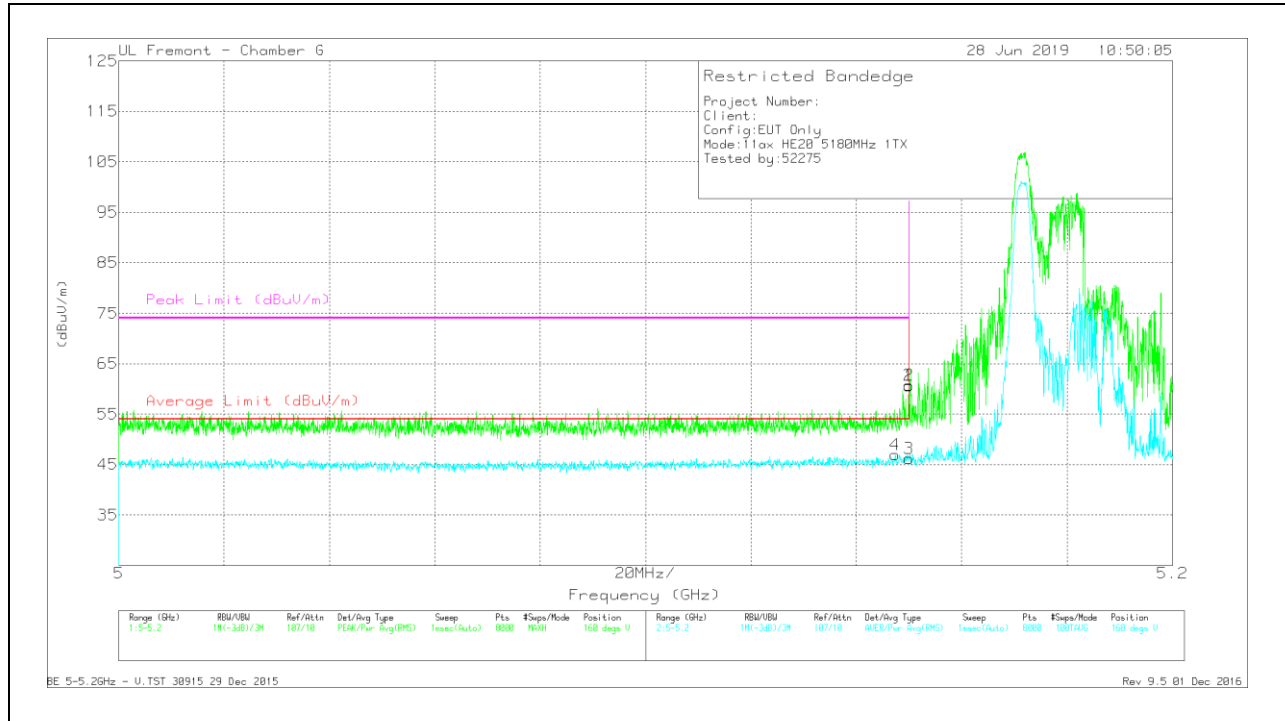
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.53	Pk	34.5	-20.3	59.73	-	-	74	-14.27	125	120	H
2	* 5.145	52.51	Pk	34.5	-20.3	66.71	-	-	74	-7.29	125	120	H
3	* 5.15	33.38	RMS	34.5	-20.3	47.58	54	-6.42	-	-	125	120	H
4	* 5.15	36.91	RMS	34.5	-20.3	51.11	54	-2.89	-	-	125	120	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	AFT120 (dB/m)	Amp/Cbl/Filtr/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	46.45	Pk	34.5	-20.3	60.65	-	-	74	-13.35	160	231	V
2	* 5.15	46.48	Pk	34.5	-20.3	60.68	-	-	74	-13.32	160	231	V
3	* 5.15	32.04	RMS	34.5	-20.3	46.24	54	-7.76	-	-	160	231	V
4	* 5.147	32.79	RMS	34.5	-20.3	46.99	54	-7.01	-	-	160	231	V

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

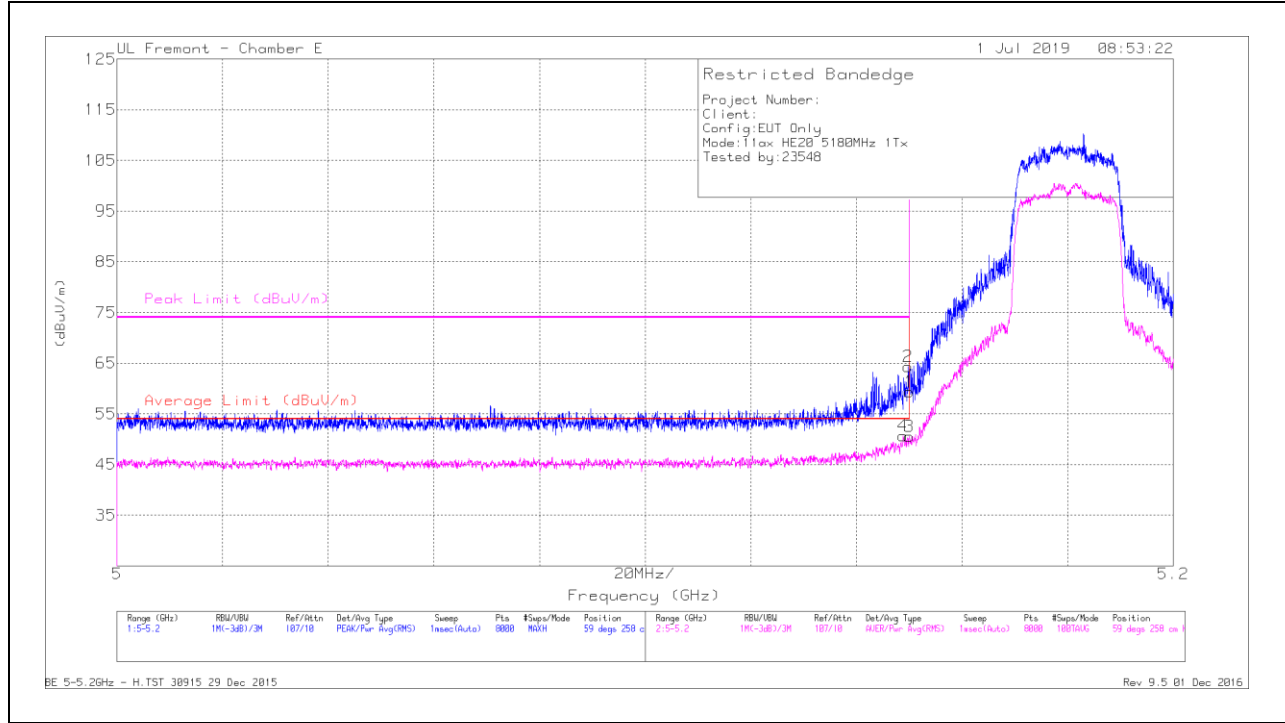
Pk - Peak detector

RMS - RMS detection

**1TX Antenna 5 MODE – 242 Tones, RU Index 61**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



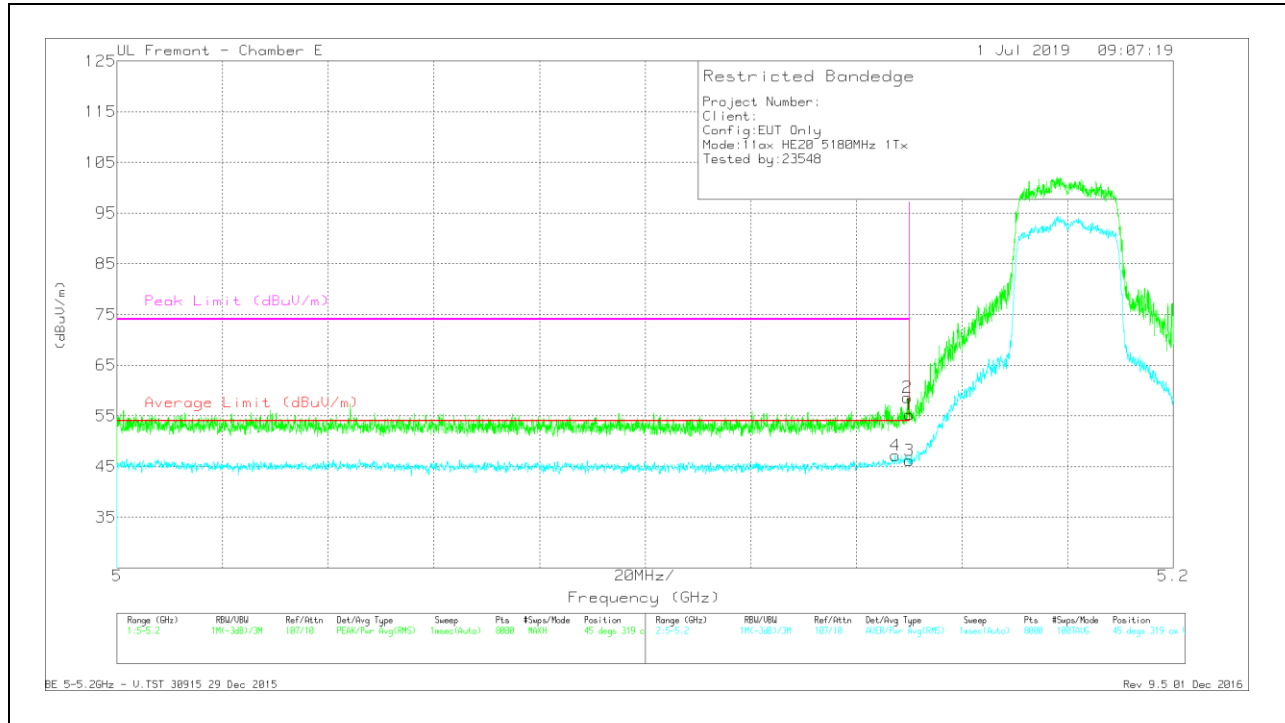
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.01	Pk	34.3	-22	59.31	-	-	74	-14.69	59	258	H
2	* 5.15	52.06	Pk	34.3	-22	64.36	-	-	74	-9.64	59	258	H
3	* 5.15	38.24	RMS	34.3	-22	50.54	54	-3.46	-	-	59	258	H
4	* 5.149	38.34	RMS	34.3	-22	50.64	54	-3.36	-	-	59	258	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 T119 (dB/m)	Amp/Cbl/Filtr/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	42.95	Pk	34.3	-22	55.25	-	-	74	-18.75	45	319	V
2	* 5.15	46.3	Pk	34.3	-22	58.6	-	-	74	-15.4	45	319	V
3	* 5.15	33.9	RMS	34.3	-22	46.2	54	-7.8	-	-	45	319	V
4	* 5.147	34.87	RMS	34.3	-22	47.17	54	-6.83	-	-	45	319	V

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

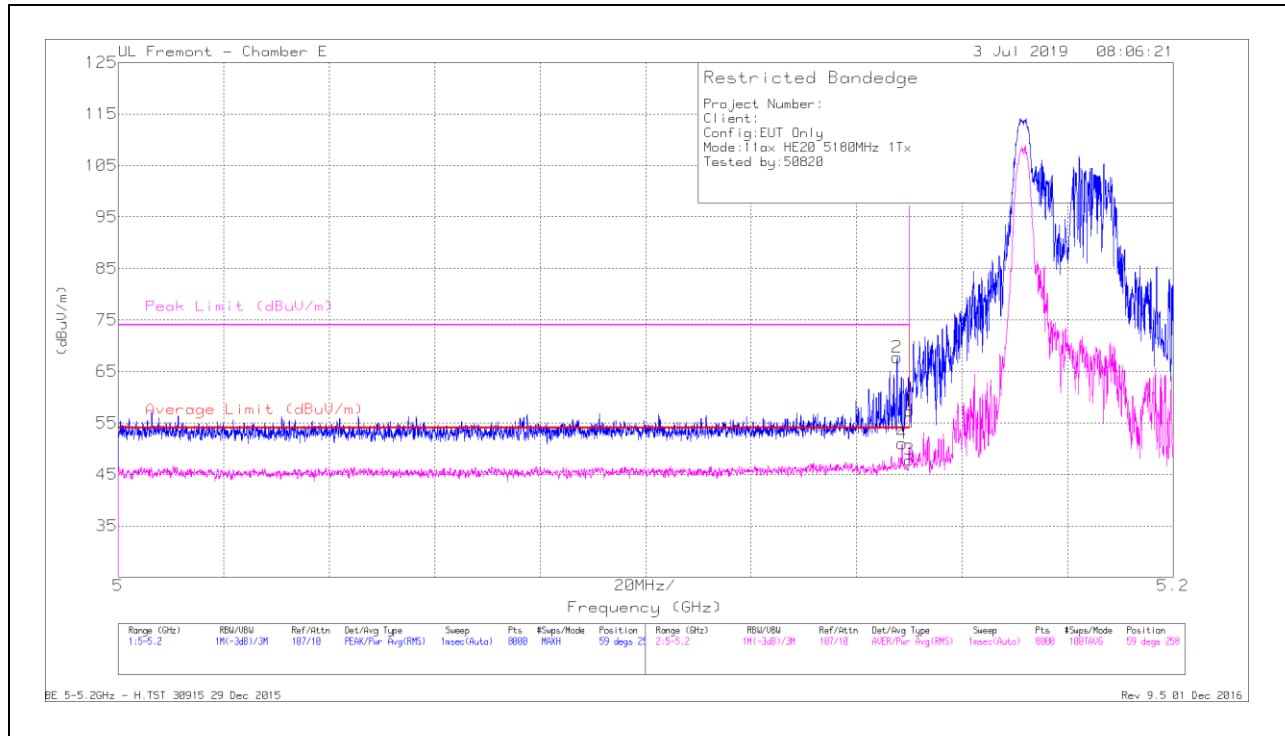
Pk - Peak detector

RMS - RMS detection

**1TX Antenna 5 MODE – 26 Tones, RU Index 0**

**BANDEDGE (LOW CHANNEL)**

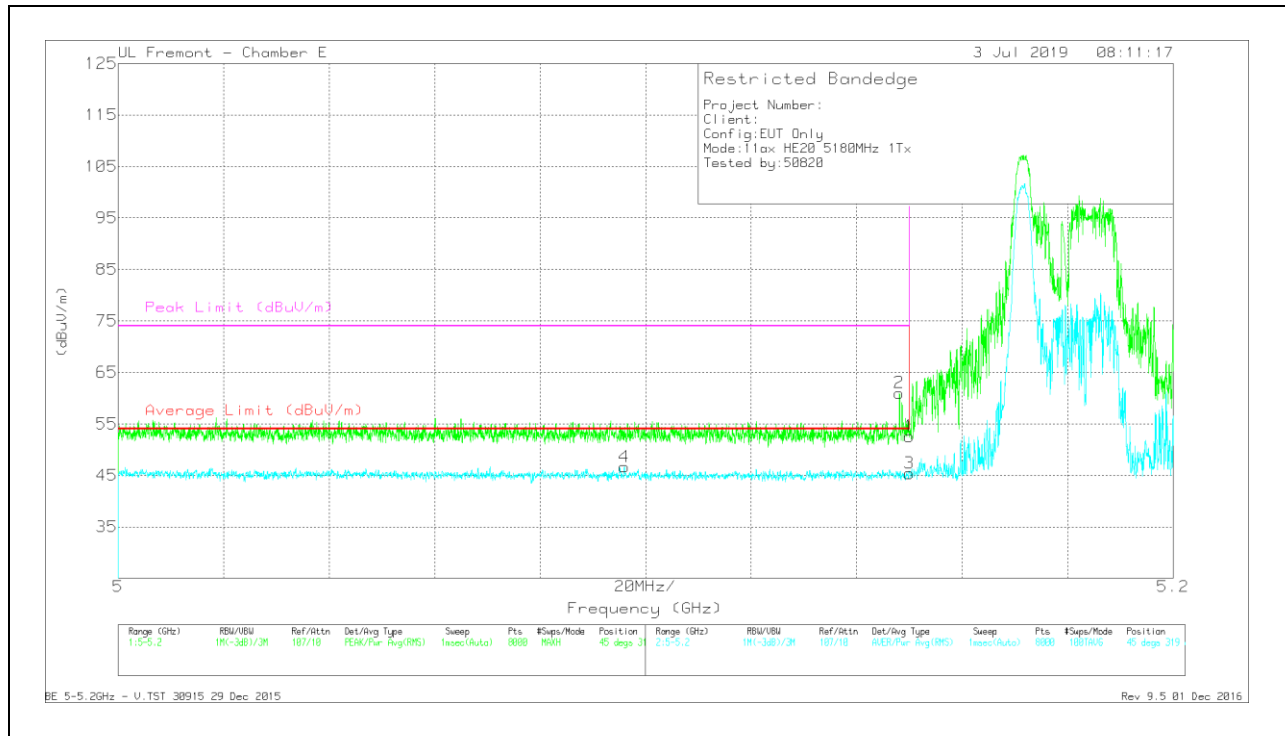
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/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	45.02	Pk	34.3	-22	57.32	-	-	74	-16.68	59	258	H
2	* 5.148	55.46	Pk	34.3	-22	67.76	-	-	74	-6.24	59	258	H
3	* 5.15	35.52	RMS	34.3	-22	47.82	54	-6.18	-	-	59	258	H
4	* 5.149	38.72	RMS	34.3	-22	51.02	54	-2.98	-	-	59	258	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 T119 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.096	34.47	RMS	34.1	-21.9	46.67	54	-7.33	-	-	45	319	V
2	* 5.148	48.71	PK	34.3	-22	61.01	-	-	74	-12.99	45	319	V
1	* 5.15	40.3	Pk	34.3	-22	52.6	-	-	74	-21.4	45	319	V
3	* 5.15	33.09	RMS	34.3	-22	45.39	54	-8.61	-	-	45	319	V

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

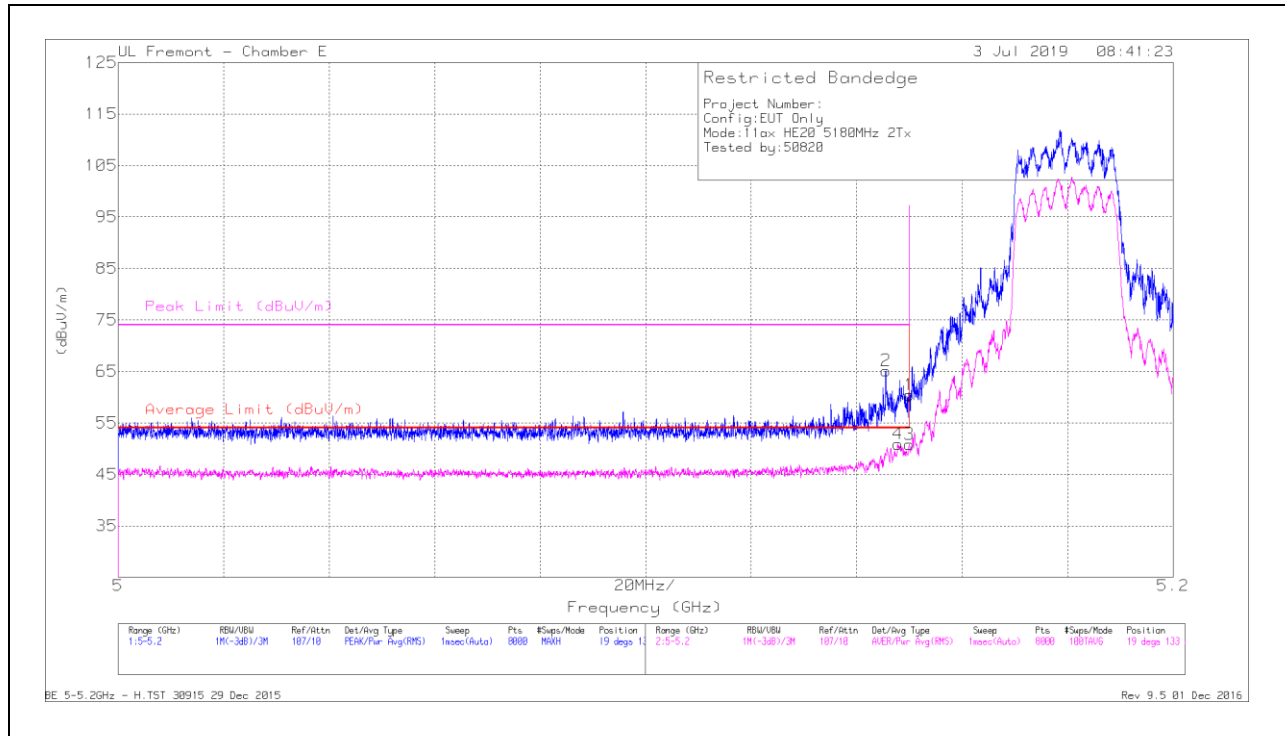
PK - Peak detector

RMS - RMS detection

**2TX Antenna 6 + Antenna 5 OFDMA MODE – 242 Tones, RU Index 61**

**BANDEDGE (LOW CHANNEL)**

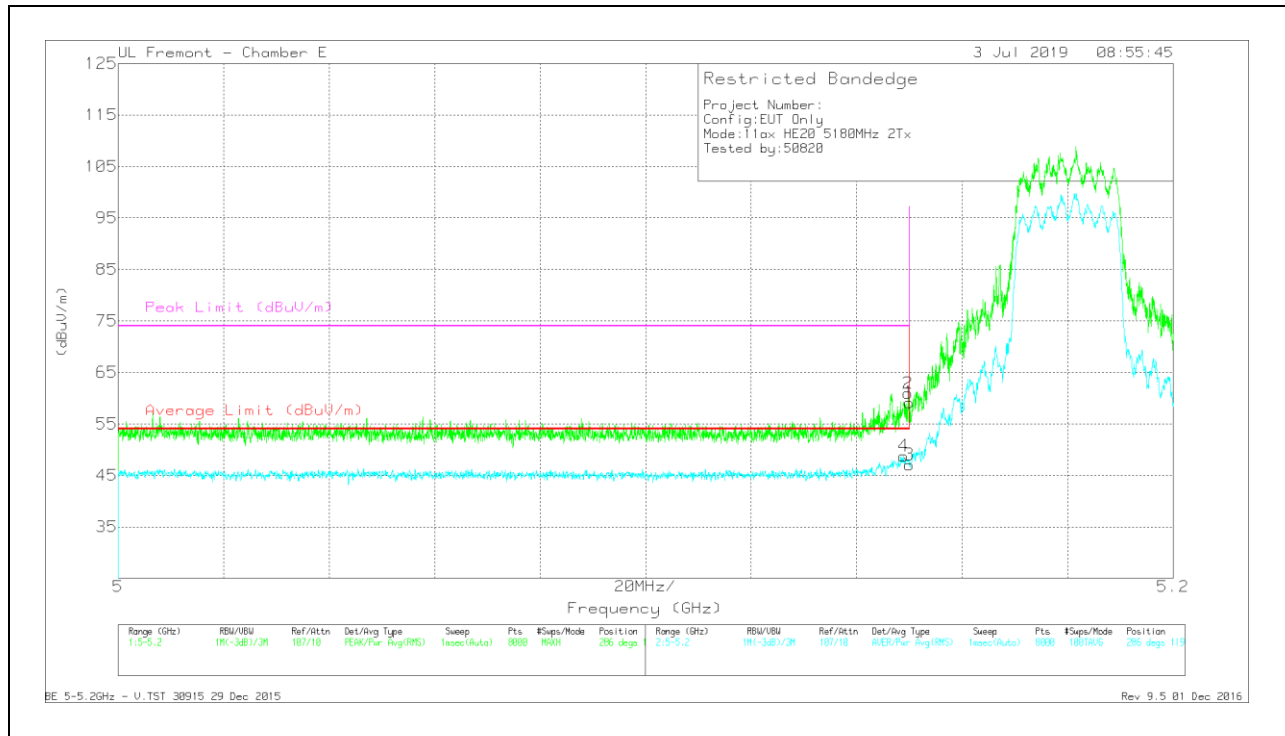
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.146	52.83	Pk	34.3	-22	65.13	-	-	74	-8.87	19	133	H
4	* 5.148	38.6	RMS	34.3	-22	50.9	54	-3.1	-	-	19	133	H
1	* 5.15	48.13	Pk	34.3	-22	60.43	-	-	74	-13.57	19	133	H
3	* 5.15	38.54	RMS	34.3	-22	50.84	54	-3.16	-	-	19	133	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 T119 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.149	36.47	RMS	34.3	-22	48.77	54	-5.23	-	-	286	119	V
1	* 5.15	46.87	PK	34.3	-22	59.17	-	-	74	-14.83	286	119	V
2	* 5.15	48.65	Pk	34.3	-22	60.95	-	-	74	-13.05	286	119	V
3	* 5.15	34.78	RMS	34.3	-22	47.08	54	-6.92	-	-	286	119	V

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

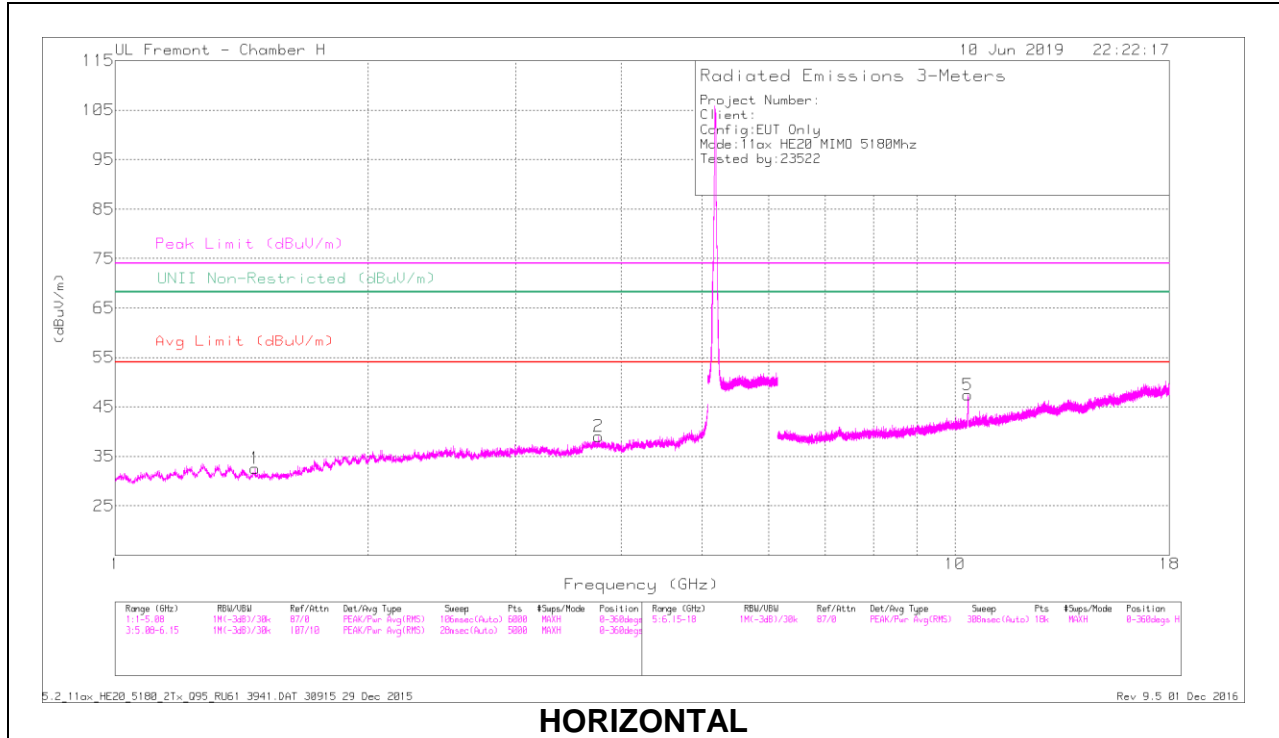
PK - Peak detector

RMS - RMS detection

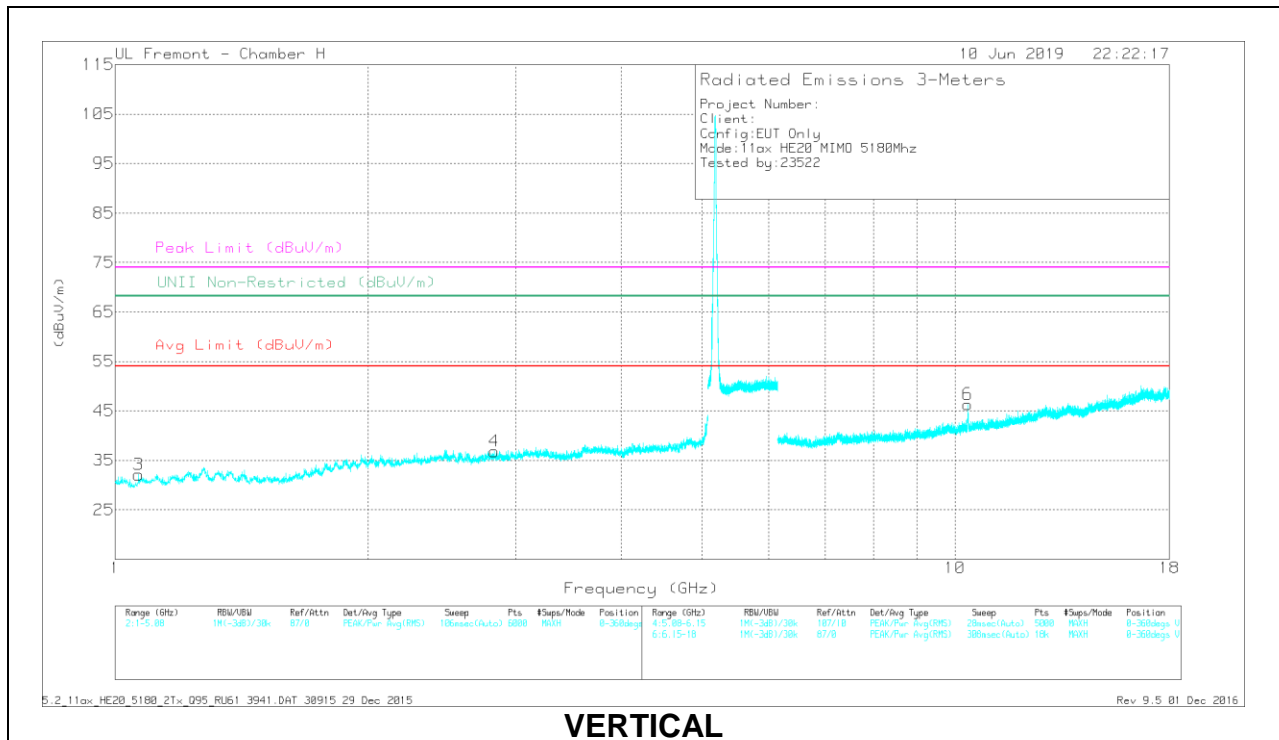


# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

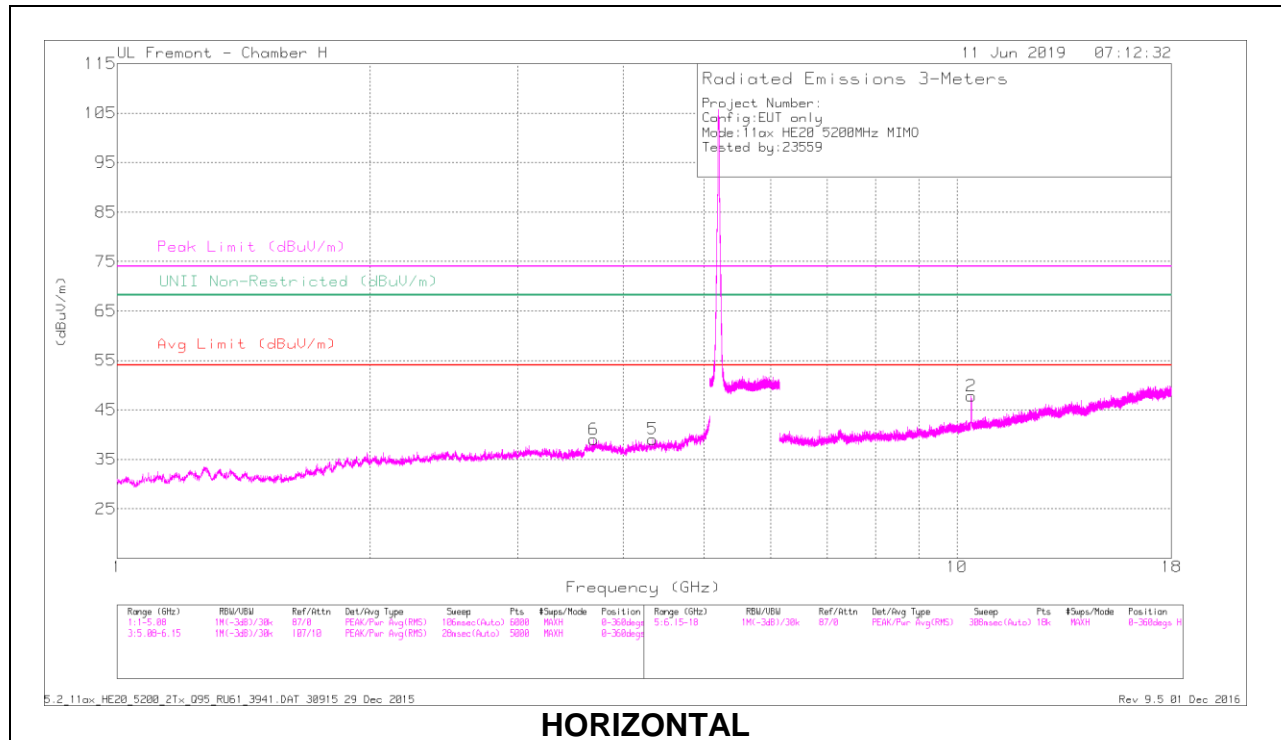
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cb/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.466	44.56	PK-U	27.9	-32.9	39.56	-	-	74	-34.44	-	-	6	100	H
	* 1.466	32.95	ADR	27.9	-32.9	27.95	54	-26.05	-	-	-	-	6	100	H
2	* 3.766	41.6	PK-U	33.5	-30.9	44.2	-	-	74	-29.8	-	-	139	129	H
	* 3.765	30.52	ADR	33.5	-30.9	33.12	54	-20.88	-	-	-	-	139	129	H
3	* 1.066	45.18	PK-U	27.2	-33.3	39.08	-	-	74	-34.92	-	-	270	199	V
	* 1.067	33.26	ADR	27.2	-33.3	27.16	54	-26.84	-	-	-	-	270	199	V
4	* 2.827	42.93	PK-U	32.4	-31.7	43.63	-	-	74	-30.37	-	-	56	268	V
	* 2.828	31.51	ADR	32.4	-31.7	32.21	54	-21.79	-	-	-	-	56	268	V
5	10.36	41.81	PK-U	37.3	-23.9	55.21	-	-	-	-	68.2	-12.99	144	169	H
	10.36	30.61	ADR	37.3	-23.9	44.01	-	-	-	-	-	-	144	169	H
6	10.361	39.73	PK-U	37.3	-24	53.03	-	-	-	-	68.2	-15.17	248	104	V
	10.361	28.68	ADR	37.3	-24	41.98	-	-	-	-	-	-	248	104	V

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

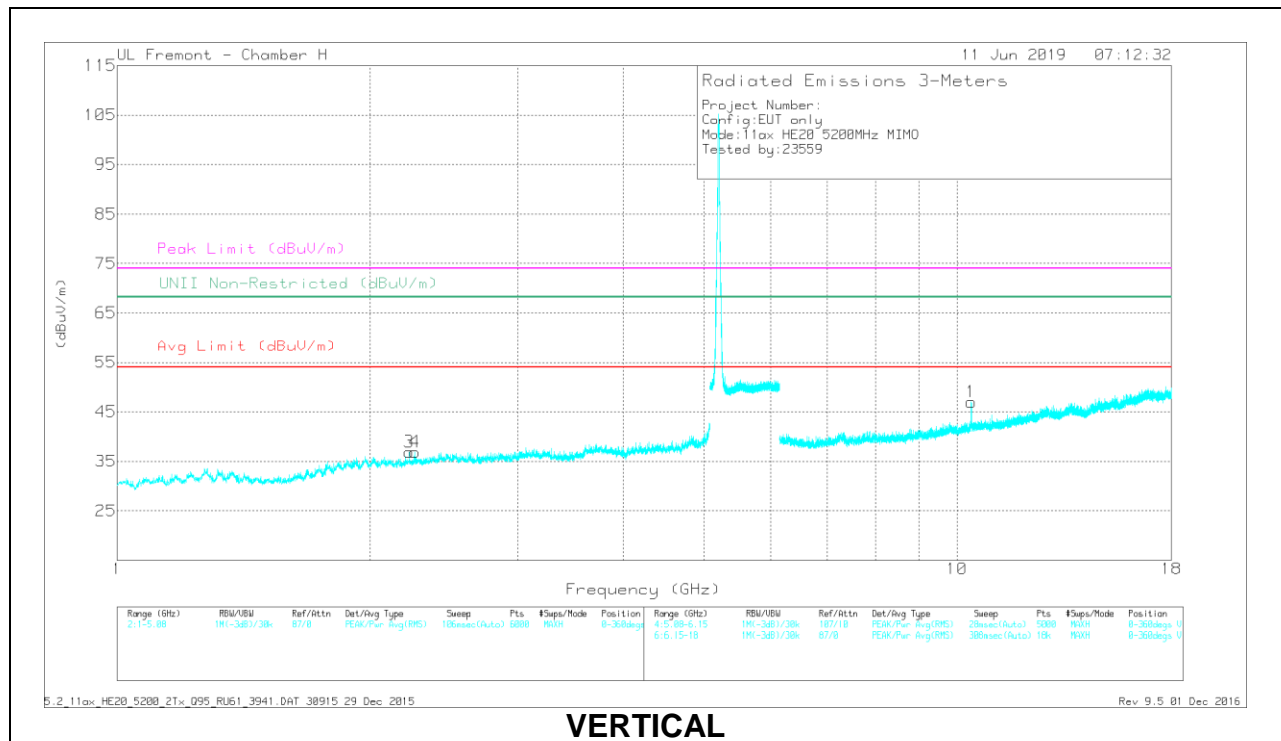
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

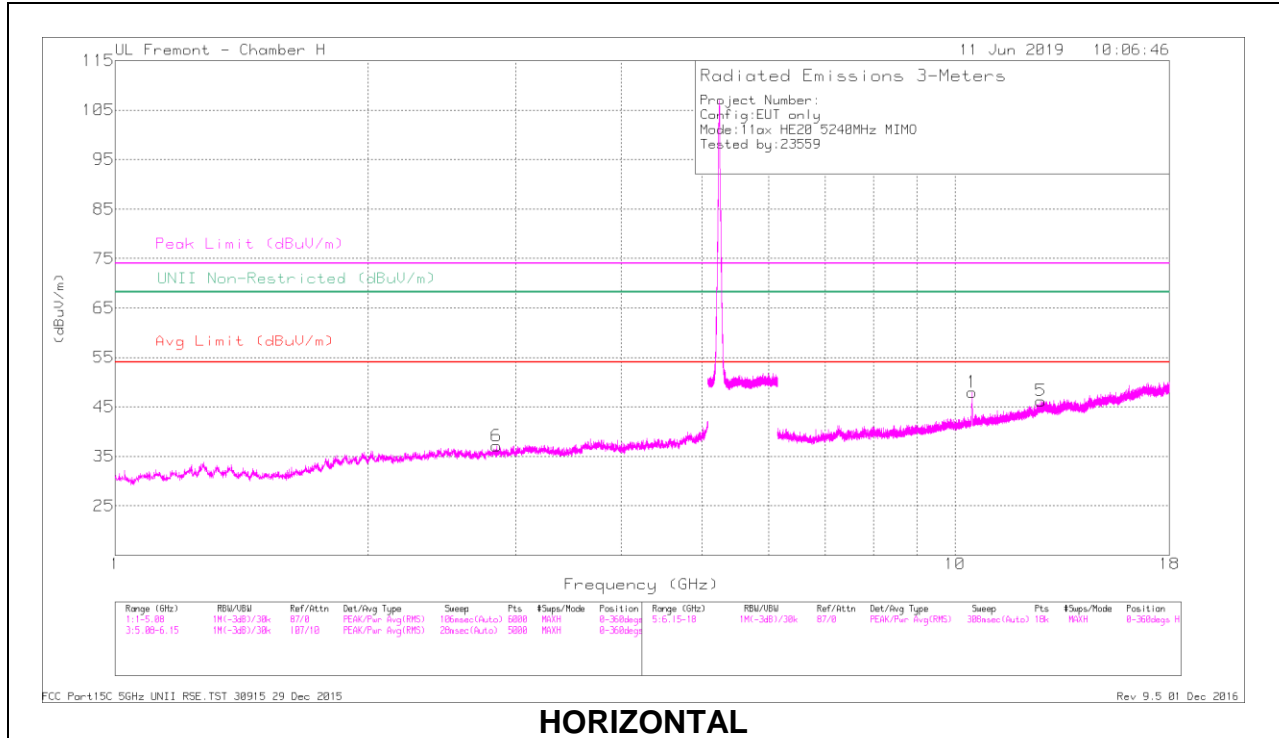
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.343	41.59	PK-U	33.7	-29.9	45.39	-	-	74	-28.61	-	-	345	150	H
	* 4.342	29.93	ADR	33.7	-29.9	33.73	54	-20.27	-	-	-	-	345	150	H
6	* 3.691	41.72	PK-U	33.1	-30.8	44.02	-	-	74	-29.98	-	-	254	205	H
	* 3.692	30.25	ADR	33.1	-30.8	32.55	54	-21.45	-	-	-	-	254	205	H
3	* 2.223	43.65	PK-U	31.8	-31.9	43.55	-	-	74	-30.45	-	-	119	136	V
	* 2.223	31.1	ADR	31.8	-31.9	31	54	-23	-	-	-	-	119	136	V
4	* 2.26	43.26	PK-U	31.9	-31.9	43.26	-	-	74	-30.74	-	-	47	224	V
	* 2.264	31.11	ADR	31.9	-31.9	31.11	54	-22.89	-	-	-	-	47	224	V
2	10.399	41.99	PK-U	37.3	-24.1	55.19	-	-	-	-	68.2	-13.01	323	255	H
1	10.399	39.56	PK-U	37.3	-24.1	52.76	-	-	-	-	68.2	-15.44	30	124	V

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

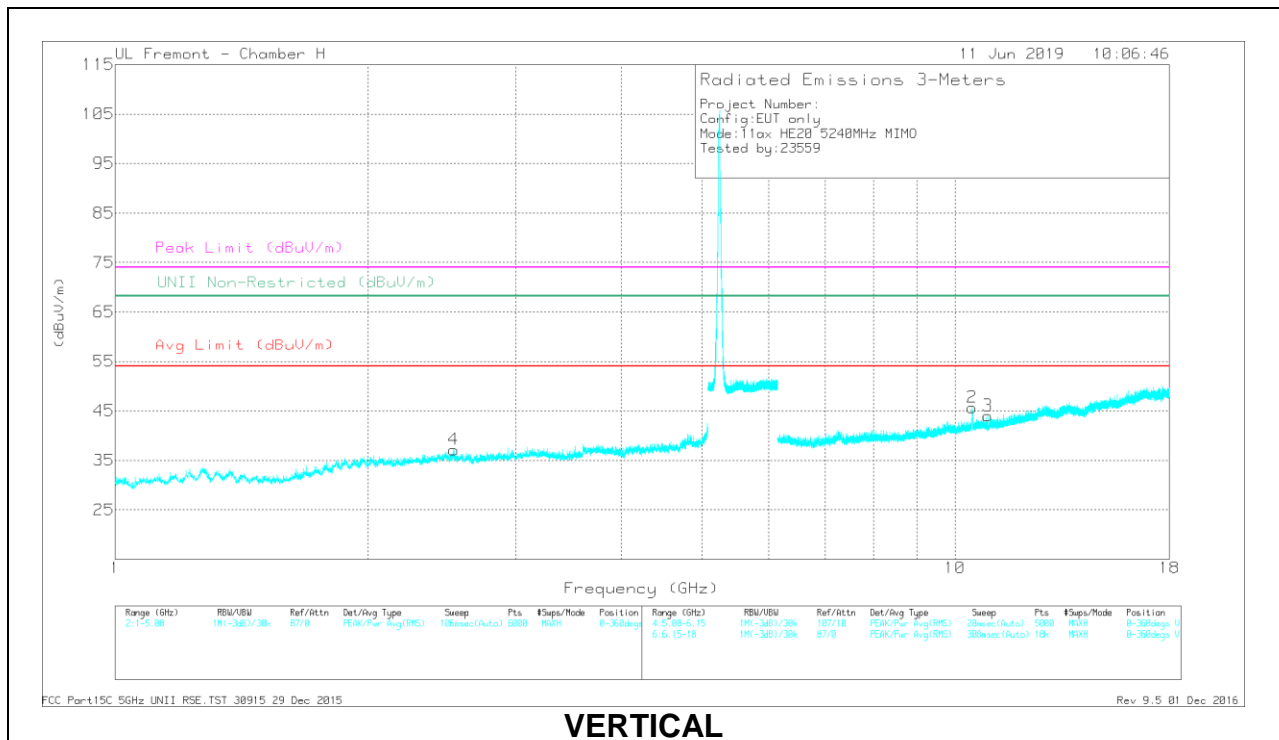
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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
6	* 2.844	43.08	PK-U	32.4	-31.7	43.78	-	-	74	-30.22	-	-	276	155	H
	* 2.844	31.48	ADR	32.4	-31.7	32.18	54	-21.82	-	-	-	-	276	155	H
5	* 12.654	35.89	PK-U	39.6	-23	52.49	-	-	74	-21.51	-	-	29	134	H
	* 12.655	24.79	ADR	39.7	-22.9	41.59	54	-12.41	-	-	-	-	29	134	H
3	* 10.936	35.67	PK-U	37.6	-23.9	49.37	-	-	74	-24.63	-	-	102	211	V
	* 10.936	24.97	ADR	37.6	-23.9	38.67	54	-15.33	-	-	-	-	102	211	V
4	2.529	42.54	PK-U	32.6	-31.4	43.74	-	-	-	-	68.2	-24.46	179	201	V
1	10.481	42.3	PK-U	37.4	-23.7	56	-	-	-	-	68.2	-12.2	151	221	H
2	10.482	40.25	PK-U	37.4	-23.7	53.95	-	-	-	-	68.2	-14.25	213	116	V

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

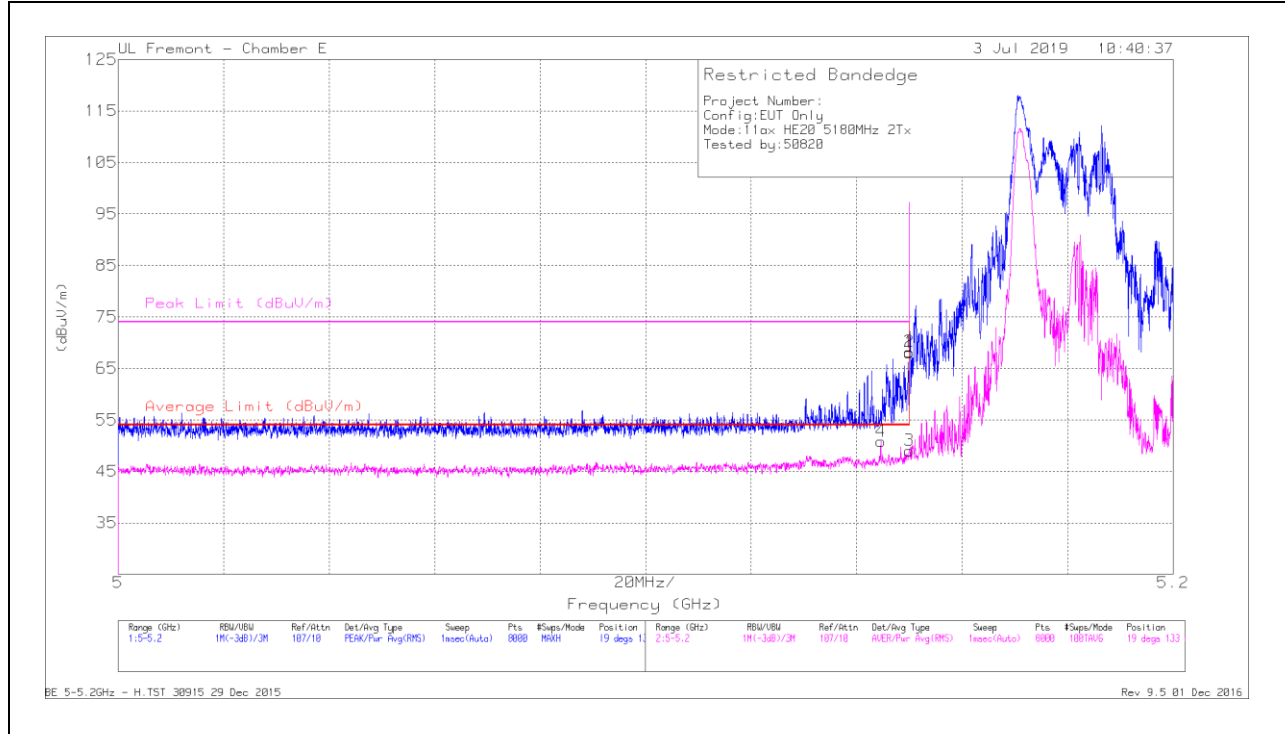
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

**2TX Antenna 6 + Antenna 5 OFDMA MODE – 26 Tones, RU Index 0**

**BANDEDGE (LOW CHANNEL)**

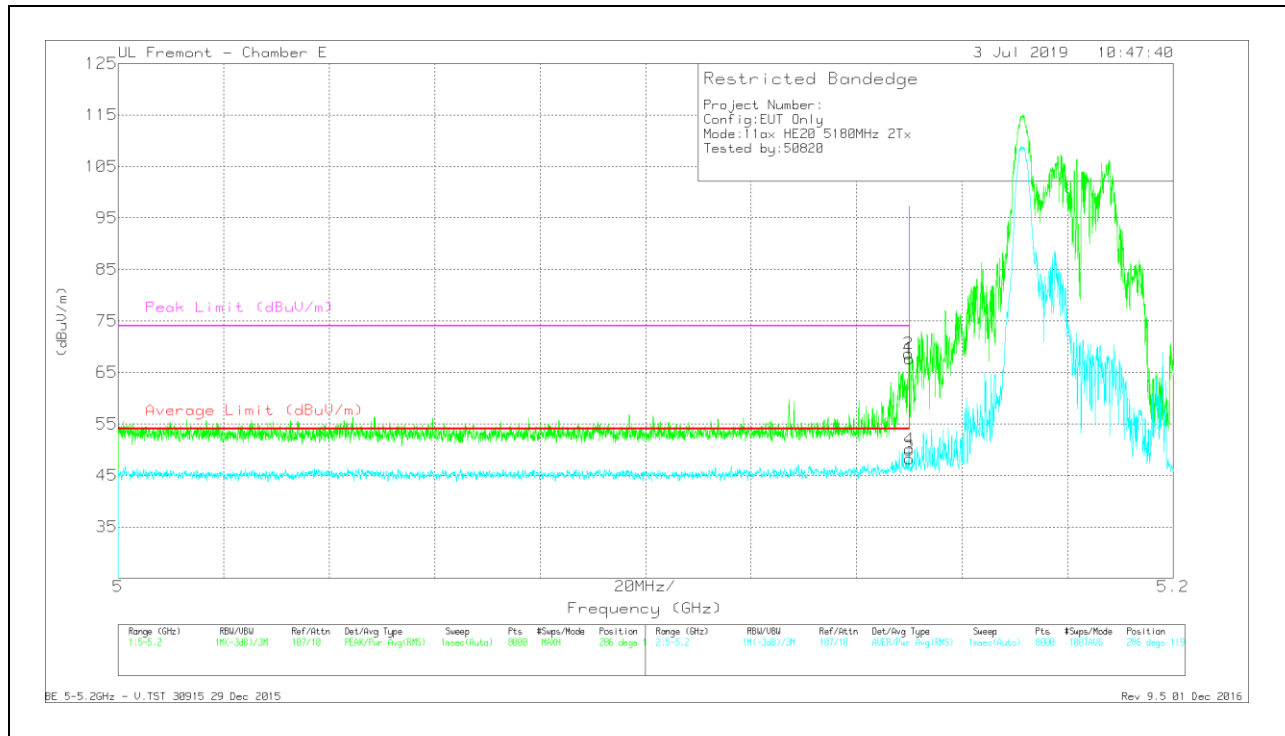
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Fltr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.145	38.63	RMS	34.2	-22	50.83	54	-3.17	-	-	19	133	H
1	* 5.15	55.8	Pk	34.3	-22	68.1	-	-	74	-5.9	19	133	H
2	* 5.15	55.92	Pk	34.3	-22	68.22	-	-	74	-5.78	19	133	H
3	* 5.15	36.74	RMS	34.3	-22	49.04	54	-4.96	-	-	19	133	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 T119 (dB/m)	Amp/Cb/Filtr/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	55.38	Pk	34.3	-22	67.68	-	-	74	-6.32	286	119	V
2	* 5.15	56.36	PK	34.3	-22	68.66	-	-	74	-5.34	286	119	V
3	* 5.15	36.01	RMS	34.3	-22	48.31	54	-5.69	-	-	286	119	V
4	* 5.15	37.73	RMS	34.3	-22	50.03	54	-3.97	-	-	286	119	V

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

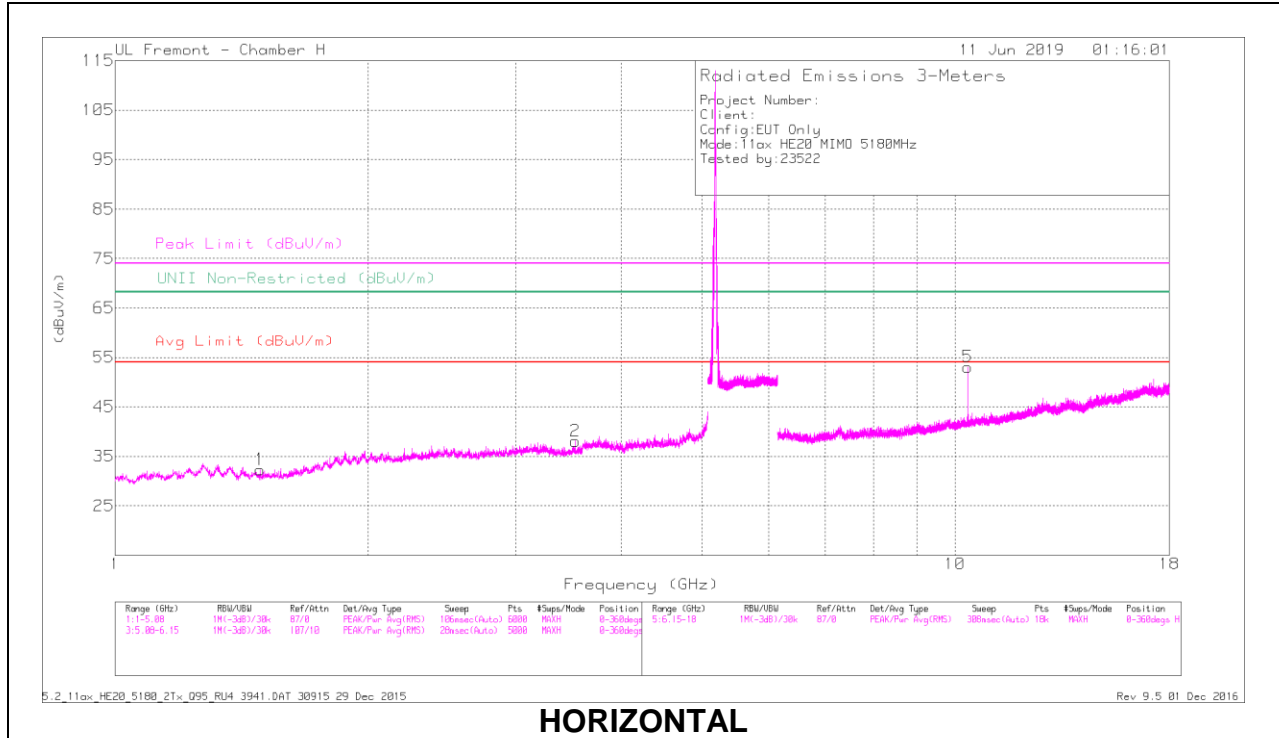
Pk - Peak detector

RMS - RMS detection

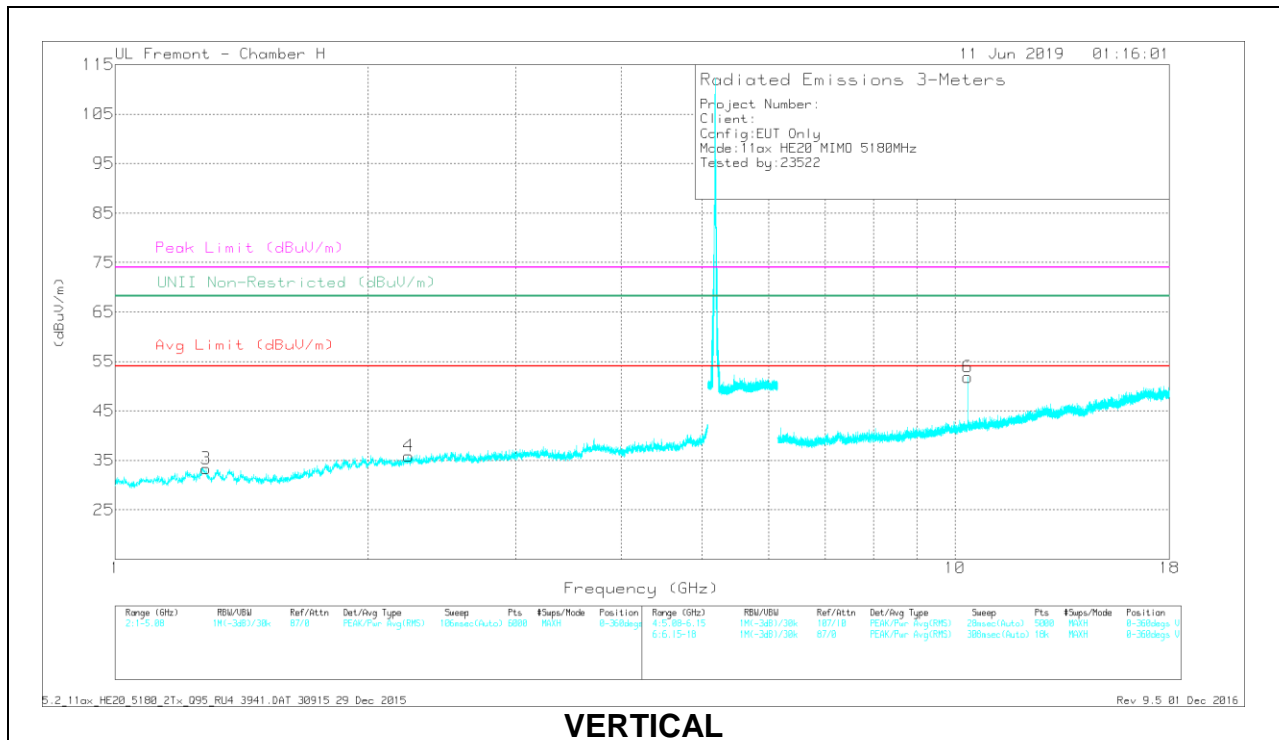


# HARMONICS AND SPURIOUS EMISSIONS

## LOW CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

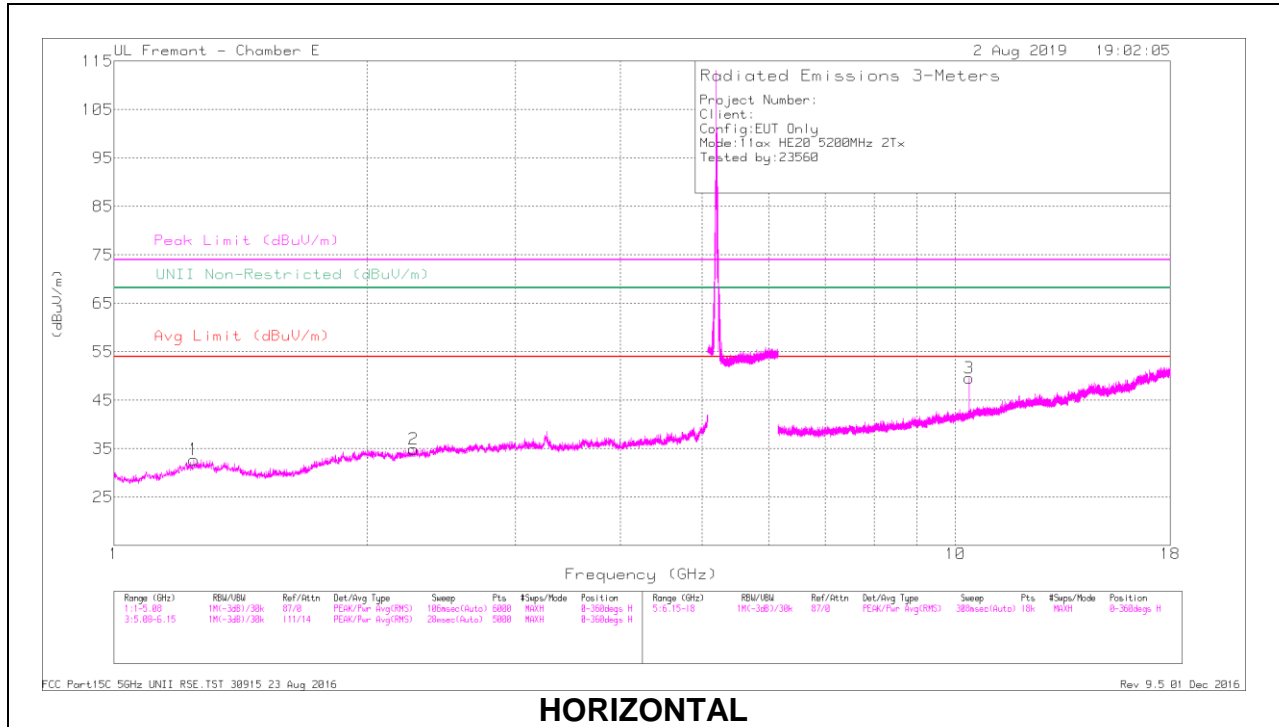
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.487	44.06	PK-U	27.8	-32.9	38.96	-	-	74	-35.04	-	-	1	100	H
	* 1.486	32.41	ADR	27.8	-32.9	27.31	54	-26.69	-	-	-	-	1	100	H
2	* 3.53	42.51	PK-U	33.1	-31.1	44.51	-	-	74	-29.49	-	-	189	124	H
	* 3.527	30.7	ADR	33.1	-31.1	32.7	54	-21.3	-	-	-	-	189	124	H
3	* 1.283	44.52	PK-U	29.2	-32.9	40.82	-	-	74	-33.18	-	-	206	154	V
	* 1.282	32.63	ADR	29.2	-32.9	28.93	54	-25.07	-	-	-	-	206	154	V
4	* 2.237	43.67	PK-U	31.8	-31.9	43.57	-	-	74	-30.43	-	-	261	216	V
	* 2.234	31.37	ADR	31.8	-31.9	31.27	54	-22.73	-	-	-	-	261	216	V
6	10.358	43.28	PK-U	37.3	-23.8	56.78	-	-	-	-	68.2	-11.42	239	108	V
5	10.359	44.59	PK-U	37.3	-23.8	58.09	-	-	-	-	68.2	-10.11	174	111	H

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

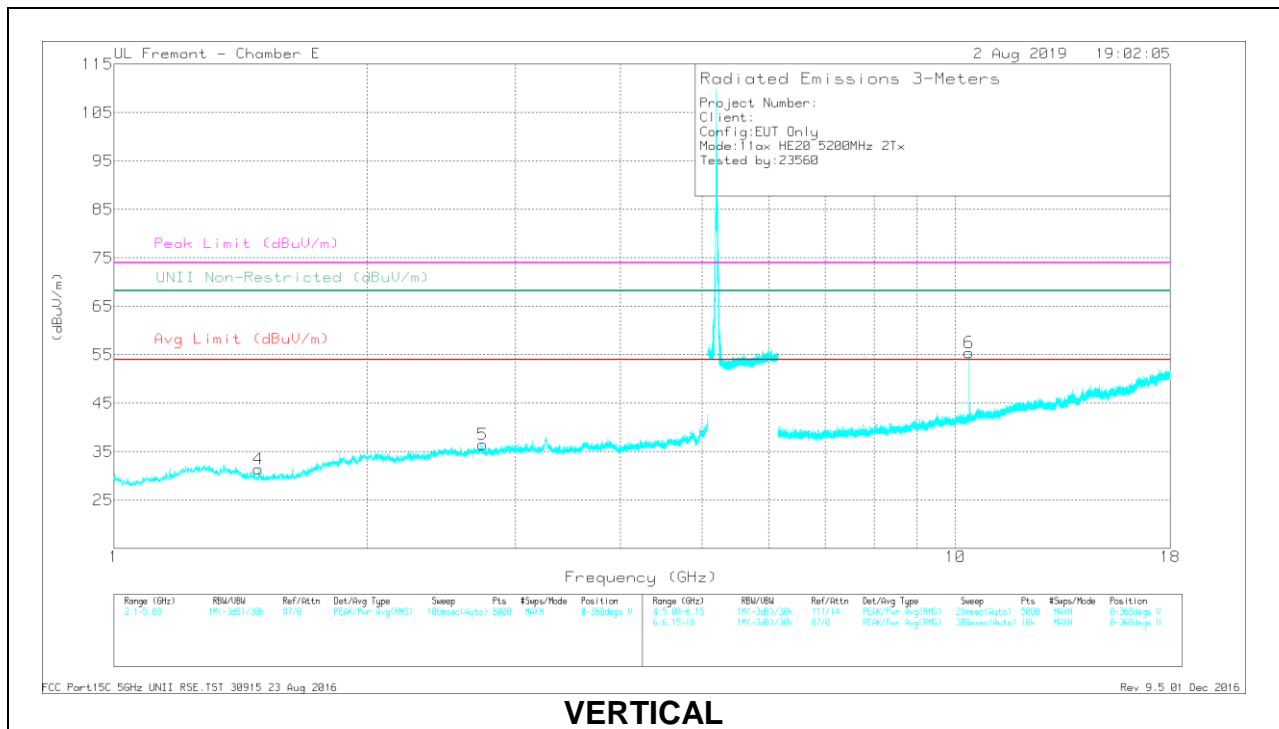
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

### MID CHANNEL RESULTS



**HORIZONTAL**



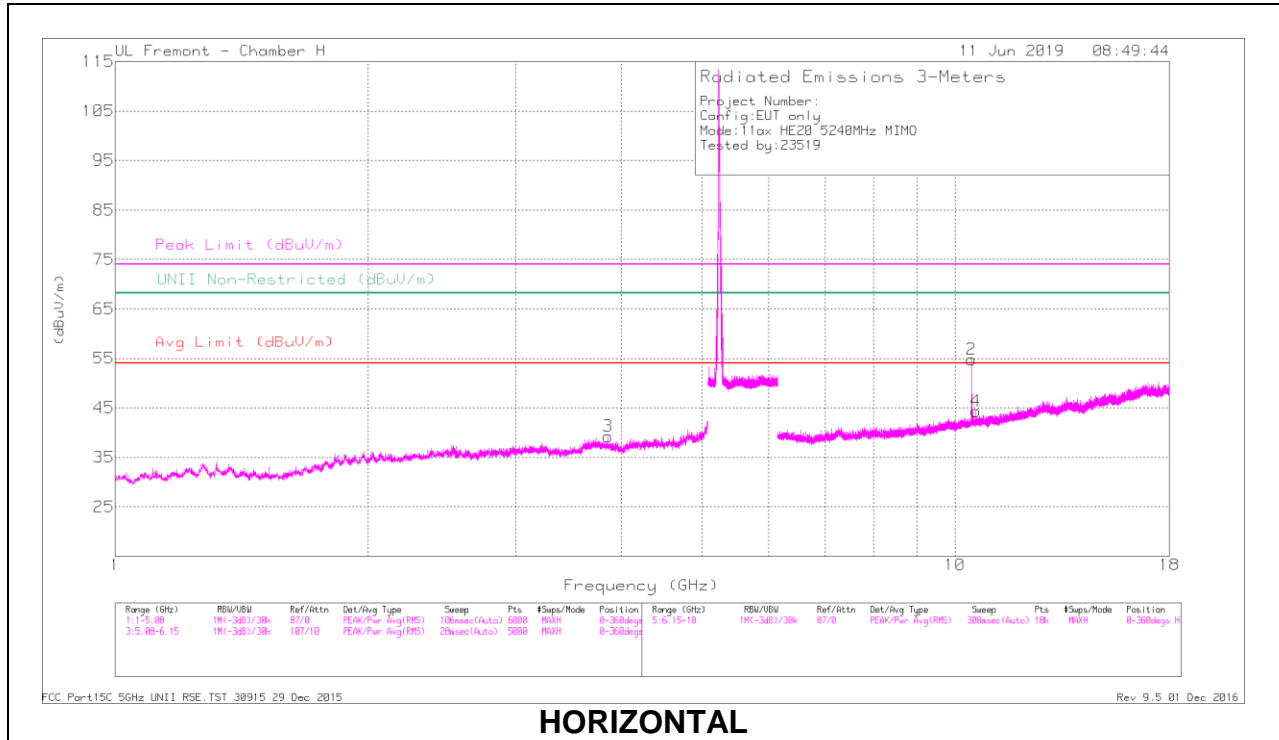
**VERTICAL**

**RADIATED EMISSIONS**

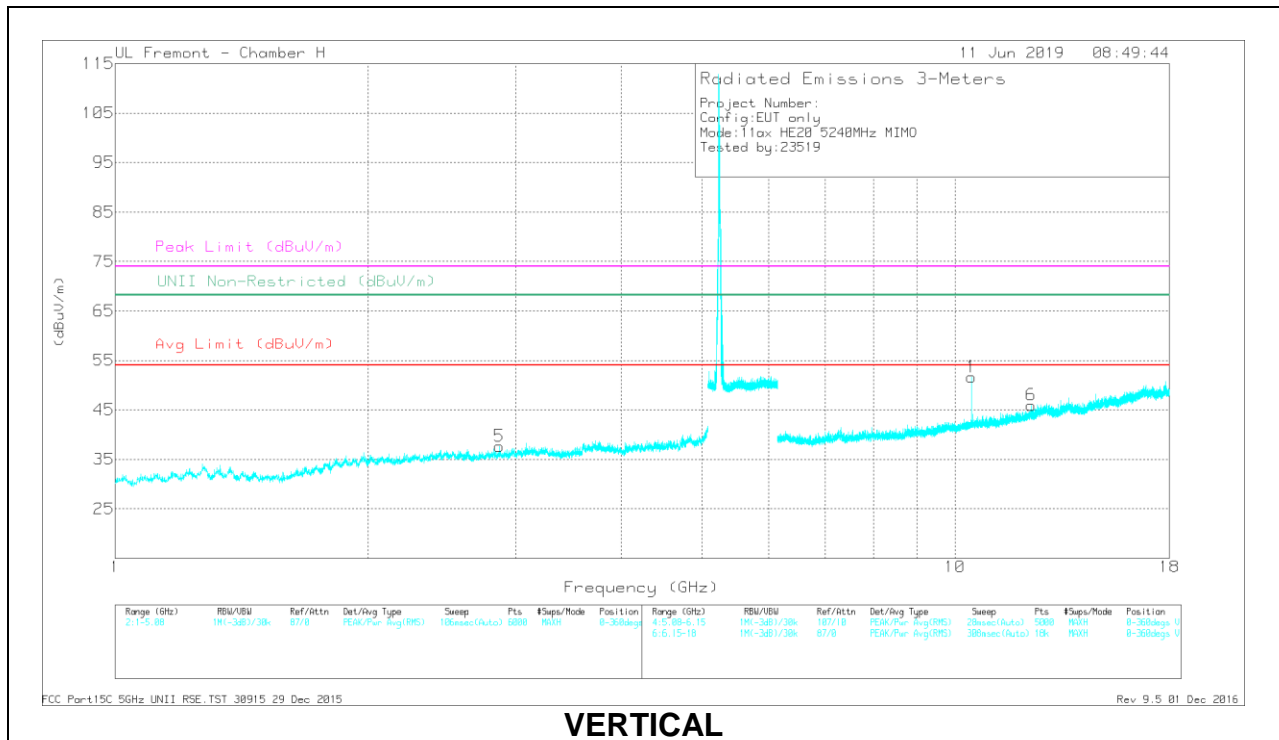
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.247	45.11	PK-U	29.9	-35.4	39.61	-	-	74	-34.39	-	-	148	228	H
	* 1.246	33.01	ADR	29.8	-35.4	27.41	54	-26.59	-	-	-	-	148	228	H
3	* 2.27	45.57	PK-U	31.9	-35.7	41.77	-	-	74	-32.23	-	-	309	195	H
	* 2.271	34.19	ADR	31.9	-35.7	30.39	54	-23.61	-	-	-	-	309	195	H
4	* 1.484	45.37	PK-U	28.1	-35.6	37.87	-	-	74	-36.13	-	-	162	379	V
	* 1.485	33.8	ADR	28.1	-35.6	28.3	54	-27.7	-	-	-	-	162	379	V
5	* 2.747	45.66	PK-U	32.9	-35.2	43.36	-	-	74	-30.64	-	-	255	275	V
	* 2.745	33.98	ADR	32.9	-35.2	31.68	54	-22.32	-	-	-	-	255	275	V
3	10.383	43.01	PK-U	37.5	-25.5	55.01	-	-	-	-	68.2	-13.19	15	108	H
6	10.384	48.06	PK-U	37.5	-25.5	60.06	-	-	-	-	68.2	-8.14	195	107	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

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (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
3	* 3.86	42.26	PK-U	33.5	-30.5	45.26	-	-	74	-28.74	-	-	122	156	H
	3.86	30.63	ADR	33.5	-30.5	33.63	54	-20.37	-	-	-	-	122	156	H
5	* 2.866	43.91	PK-U	32.5	-31.4	45.01	-	-	74	-28.99	-	-	225	212	V
	2.869	31.47	ADR	32.5	-31.4	32.57	54	-21.43	-	-	-	-	225	212	V
6	* 12.322	35.69	PK-U	38.9	-23.2	51.39	-	-	74	-22.61	-	-	211	164	V
	12.324	24.88	ADR	38.9	-23.2	40.58	54	-13.42	-	-	-	-	211	164	V
2	10.462	46.03	PK-U	37.4	-23.9	59.53	-	-	-	-	68.2	-8.67	142	213	H
1	10.464	42.63	PK-U	37.4	-23.9	56.13	-	-	-	-	68.2	-12.07	233	137	V
4	10.59	36	PK-U	37.6	-23.8	49.8	-	-	-	-	68.2	-18.4	327	105	H

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

PK-U - U-NII: Maximum Peak

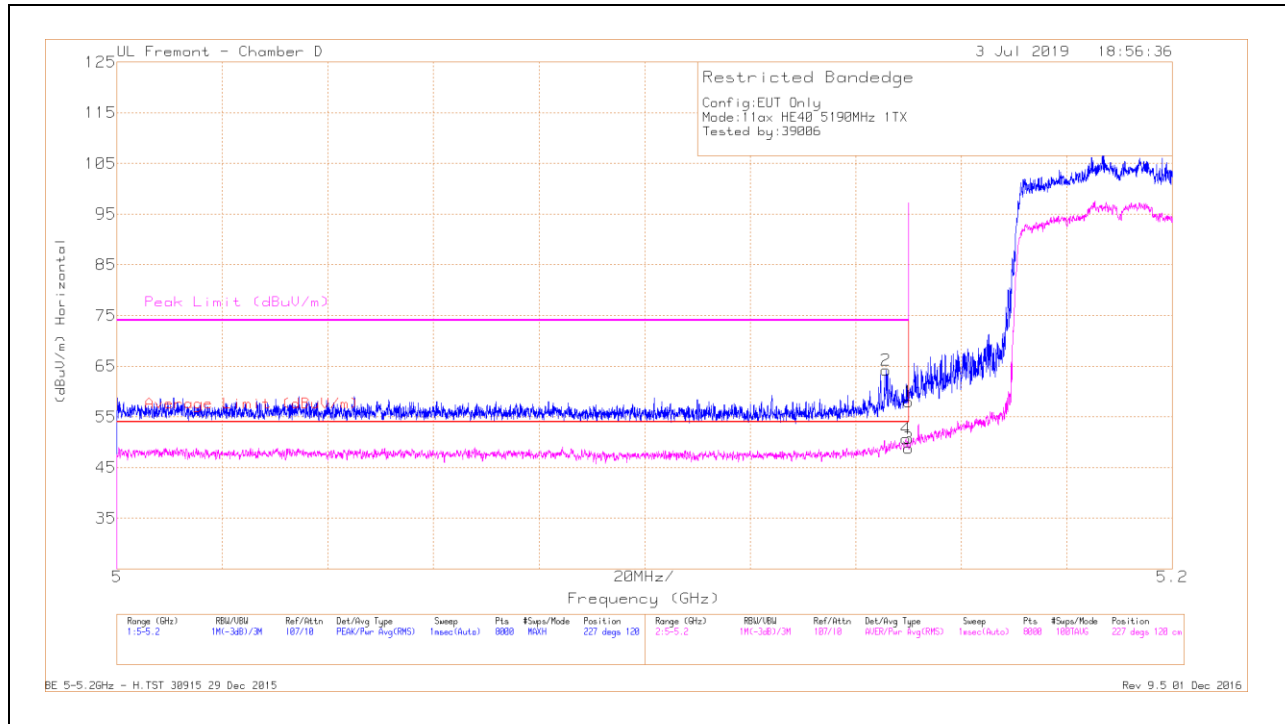
ADR - U-NII AD primary method, RMS average

### 1.1.5. TX ABOVE 1 GHz 802.11ax HE40 MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 6 MODE – 484 Tones, RU Index 65

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



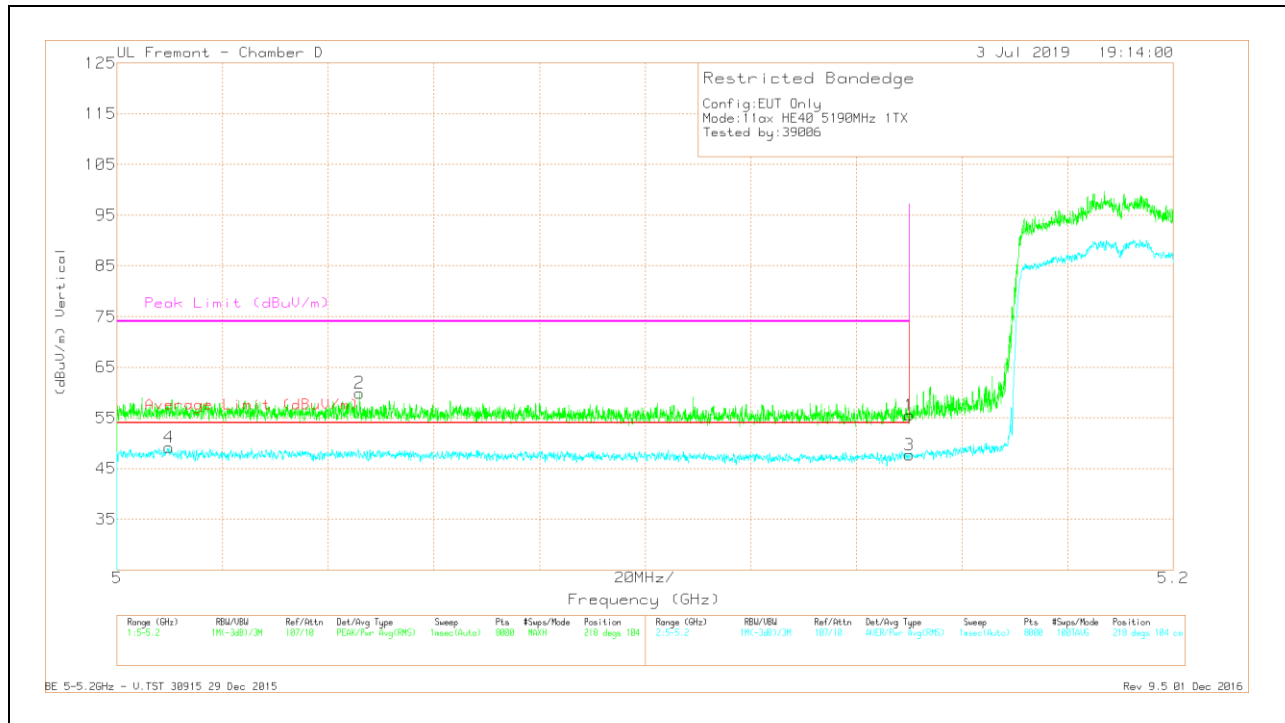
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/CbI/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.27	PK	34.1	-18.4	57.97	-	-	74	-16.03	227	120	H
2	* 5.146	48.53	PK	34.1	-18.4	64.23	-	-	74	-9.77	227	120	H
3	* 5.15	33.12	RMS	34.1	-18.4	48.82	54	-5.18	-	-	227	120	H
4	* 5.15	34.95	RMS	34.1	-18.4	50.65	54	-3.35	-	-	227	120	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 T712 (dB/m)	Amp/Cbl/Filtr/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	39.81	Pk	34.1	-18.4	55.51	-	-	74	-18.49	218	104	V
2	* 5.046	43.81	Pk	34.1	-18	59.91	-	-	74	-14.09	218	104	V
3	* 5.15	32	RMS	34.1	-18.4	47.7	54	-6.3	-	-	218	104	V
4	* 5.01	33.01	RMS	34	-17.8	49.21	54	-4.79	-	-	218	104	V

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

Pk - Peak detector

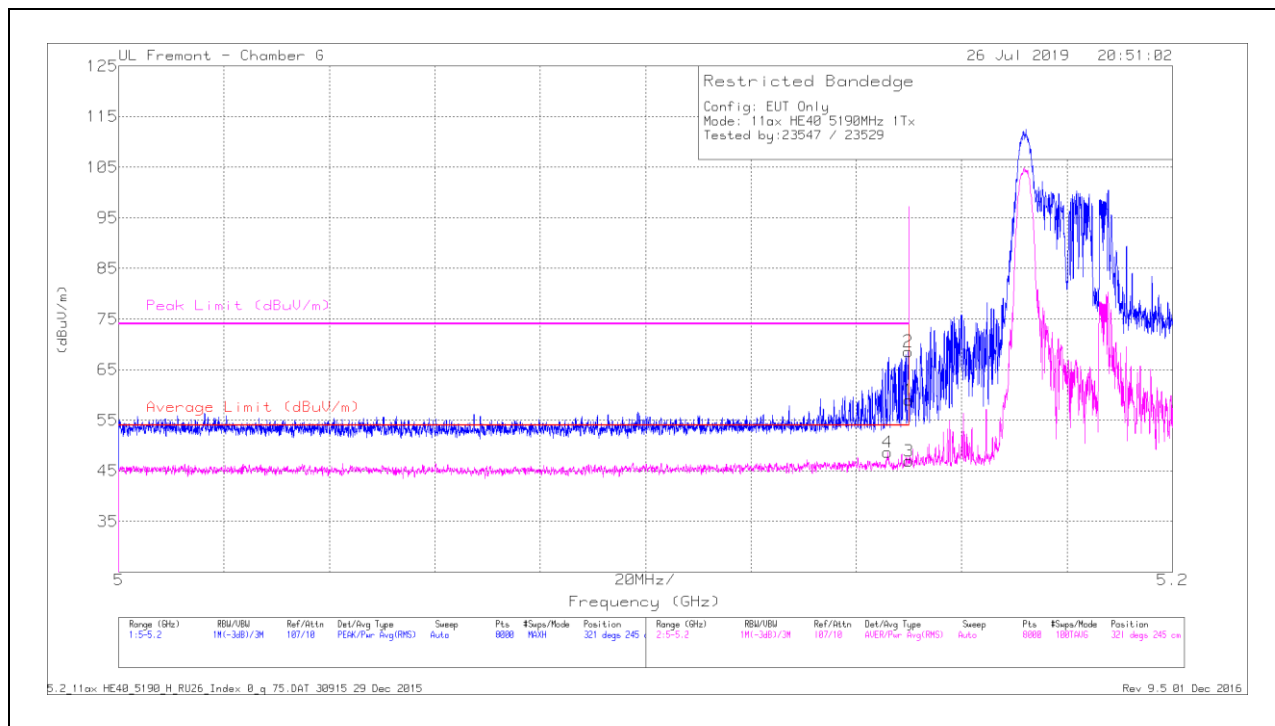
RMS - RMS detection



**1TX Antenna 6 MODE – 26 Tones, RU Index 0**

**BANDEDGE (LOW CHANNEL)**

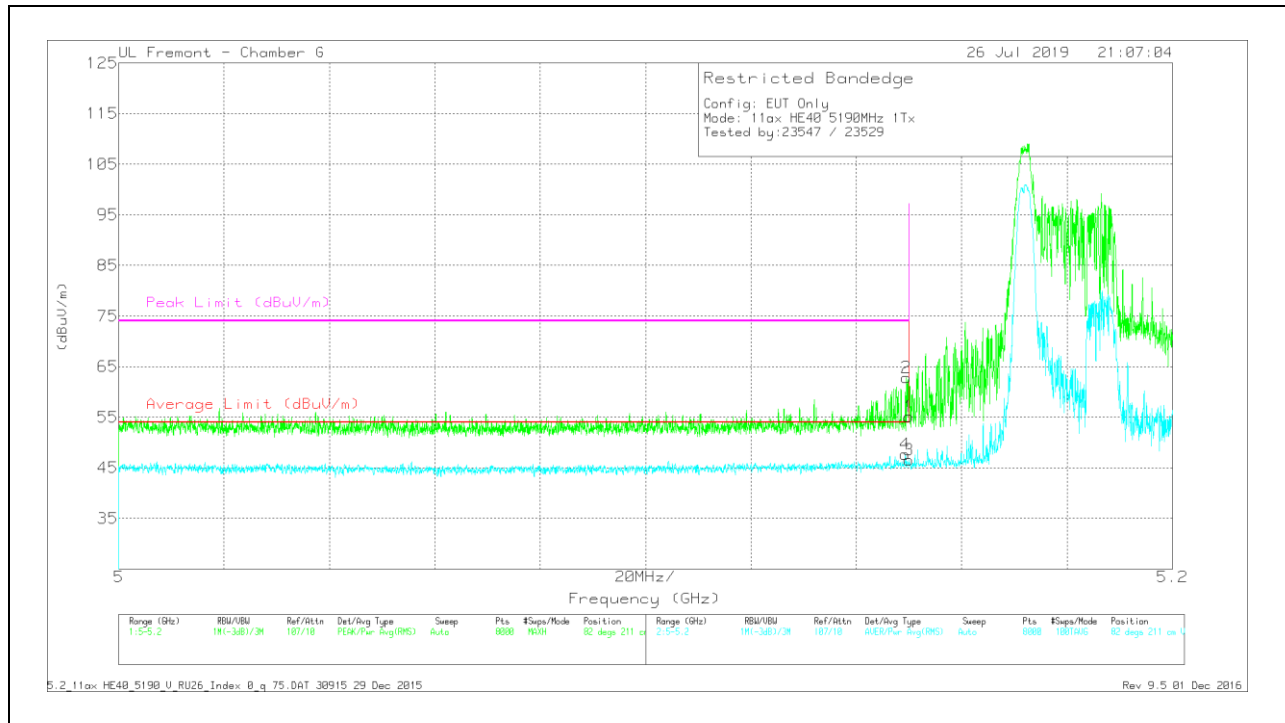
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/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	44.94	Pk	34.3	-20.3	58.94	-	-	74	-15.06	321	245	H
2	* 5.15	54.6	PK	34.3	-20.3	68.6	-	-	74	-5.4	321	245	H
3	* 5.15	32.97	RMS	34.3	-20.3	46.97	54	-7.03	-	-	321	245	H
4	* 5.146	34.63	RMS	34.3	-20.3	48.63	54	-5.37	-	-	321	245	H

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

### VERTICAL RESULT



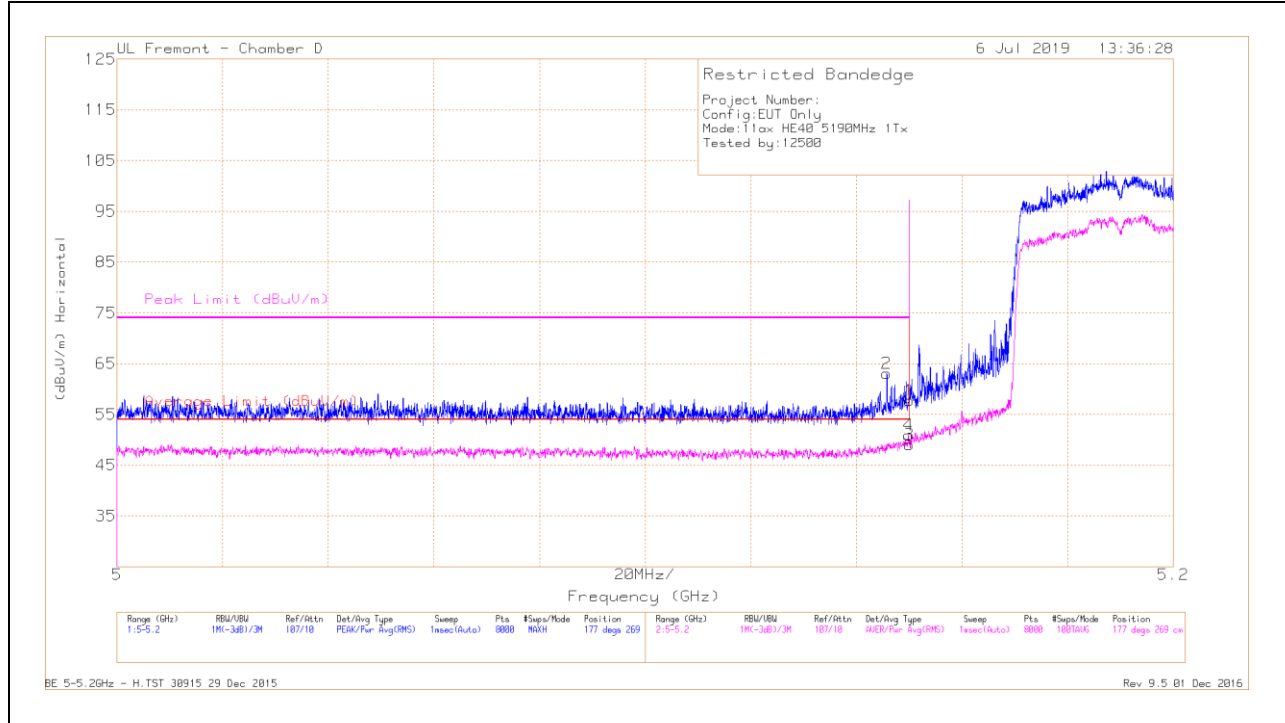
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.13	Pk	34.3	-20.3	55.13	-	-	74	-18.87	82	211	V
2	* 5.15	48.84	Pk	34.3	-20.3	62.84	-	-	74	-11.16	82	211	V
3	* 5.15	32.58	RMS	34.3	-20.3	46.58	54	-7.42	-	-	82	211	V
4	* 5.149	33.67	RMS	34.3	-20.3	47.67	54	-6.33	-	-	82	211	V

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

**1TX Antenna 5 MODE – 484 Tones, RU Index 65**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T712 (dB/m)	Amp/Cbl/Filtr/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	42.01	Pk	34.1	-18.4	57.71	-	-	74	-16.29	177	269	H
2	* 5.146	47.33	Pk	34.1	-18.4	63.03	-	-	74	-10.97	177	269	H
3	* 5.15	33.3	RMS	34.1	-18.4	49	54	-5	-	-	177	269	H
4	* 5.15	35.23	RMS	34.1	-18.4	50.93	54	-3.07	-	-	177	269	H

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