

8.5.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 6 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.60	-2.90	24.00	11.00
High	5610	82.60	-2.90	24.00	11.00
138	5690	82.60	-2.90	24.00	11.00

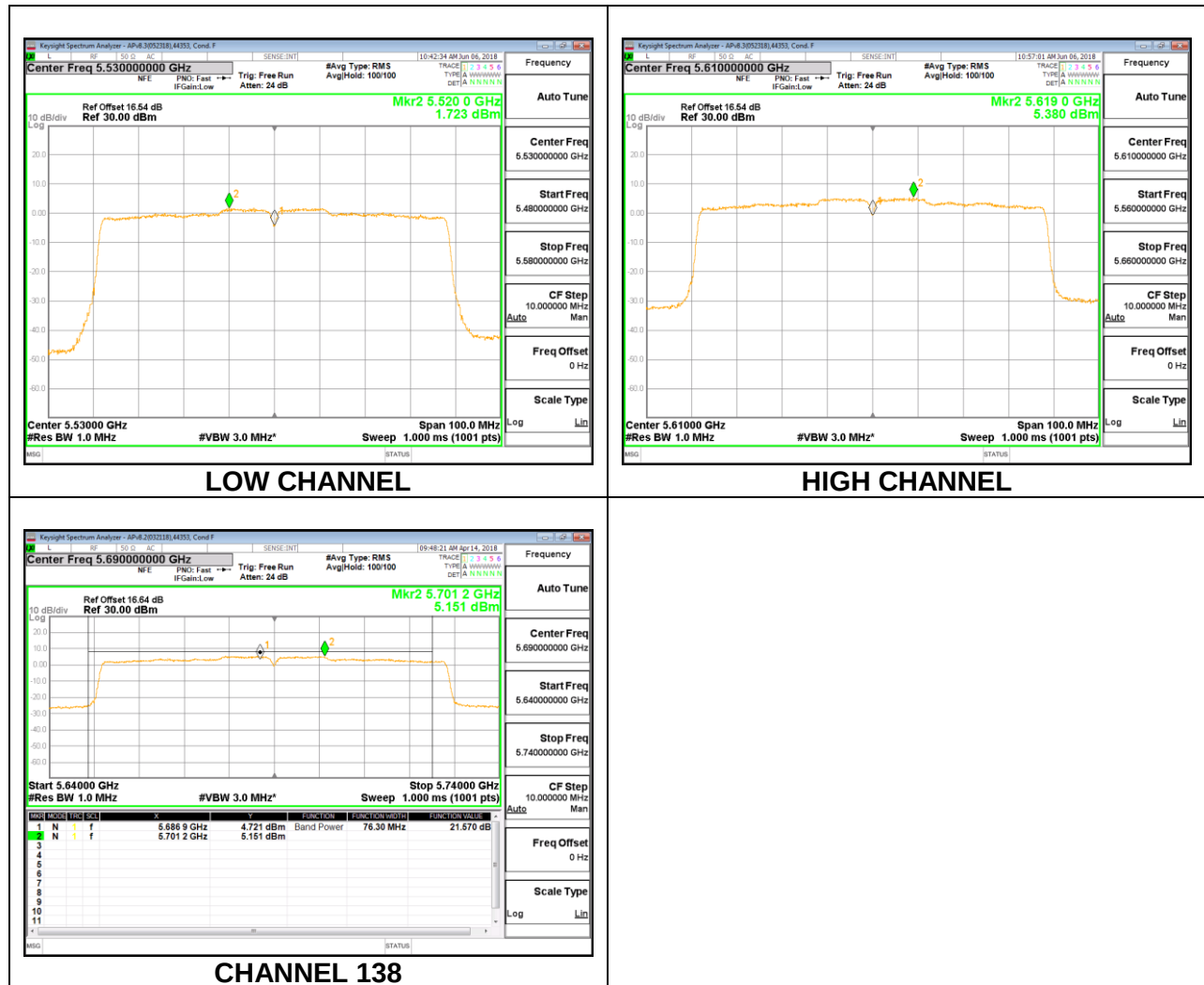
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.36	17.36	24.00	-6.64
High	5610	21.77	21.77	24.00	-2.23
138	5690	21.57	21.76	24.00	-2.24

PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	1.72	1.91	11.00	-9.09
High	5610	5.38	5.57	11.00	-5.43
138	5690	5.15	5.34	11.00	-5.66



1TX Antenna 5 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.20	-0.80	24.00	11.00
High	5610	82.40	-0.80	24.00	11.00
138	5690	81.80	-0.80	24.00	11.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.41	17.41	24.00	-6.59
High	5610	21.82	21.82	24.00	-2.18
138	5690	21.62	21.81	24.00	-2.19

PSD Results

Channel	Frequency (MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	1.61	1.80	11.00	-9.20
High	5610	5.33	5.52	11.00	-5.48
138	5690	5.41	5.60	11.00	-5.40



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.00	-1.72	1.22	24.00	11.00
High	5610	82.20	-1.72	1.22	24.00	11.00
138	5690	82.40	-1.72	1.22	24.00	11.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch138) & PSD
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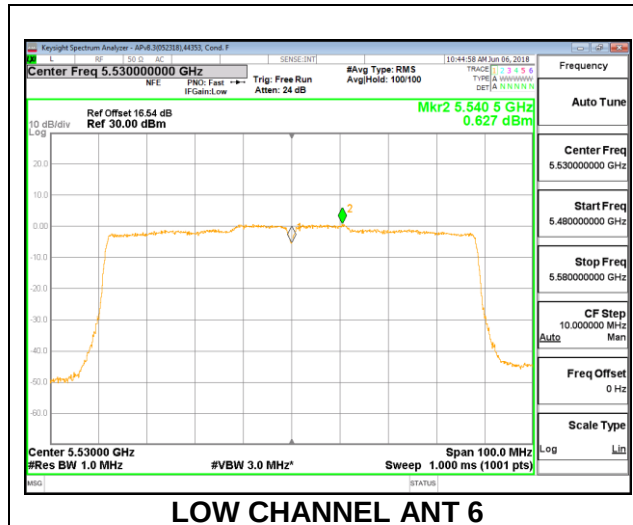
Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	16.33	16.38	19.37	24.00	-4.63
High	5610	19.88	19.85	22.88	24.00	-1.12
138	5690	19.69	19.54	22.81	24.00	-1.19

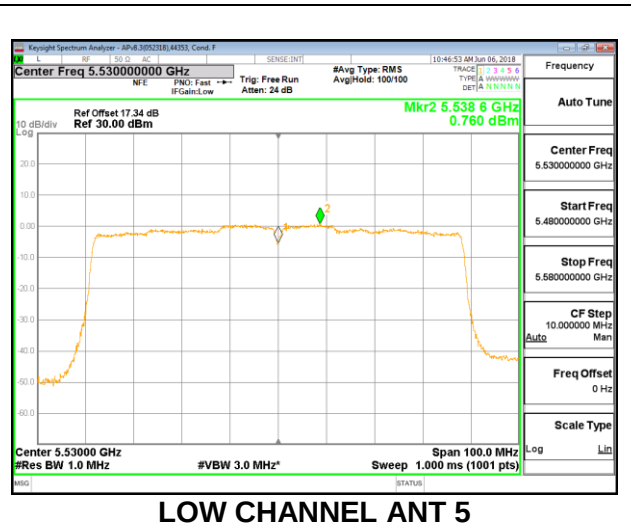
PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	0.63	0.76	3.80	11.00	-7.20
High	5610	3.34	3.35	6.45	11.00	-4.55
138	5690	3.15	3.08	6.22	11.00	-4.78

LOW CHANNEL

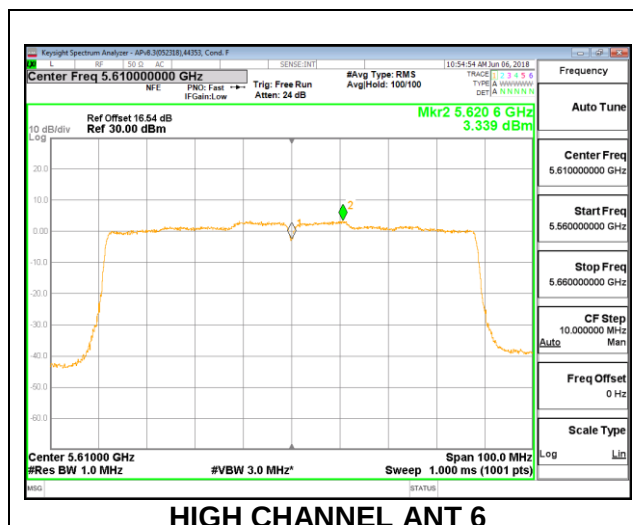


LOW CHANNEL ANT 6

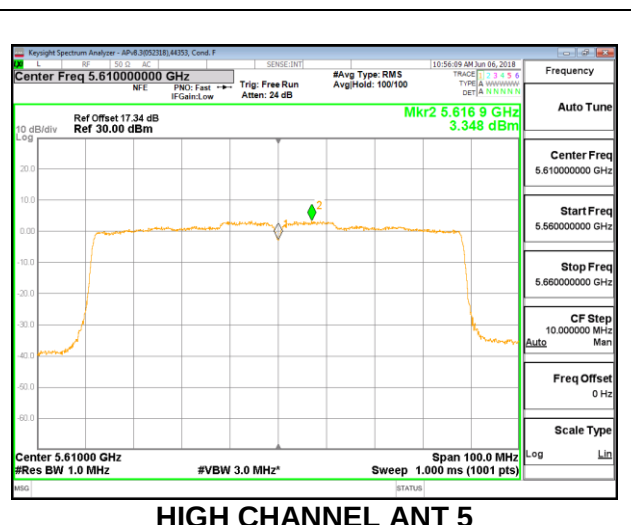


LOW CHANNEL ANT 5

HIGH CHANNEL

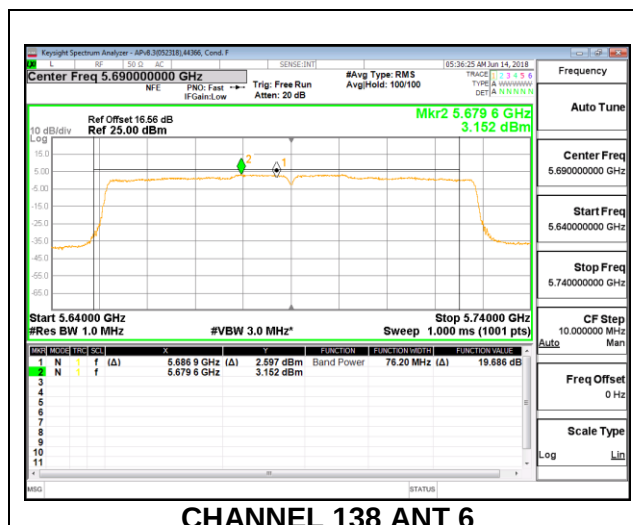


HIGH CHANNEL ANT 6

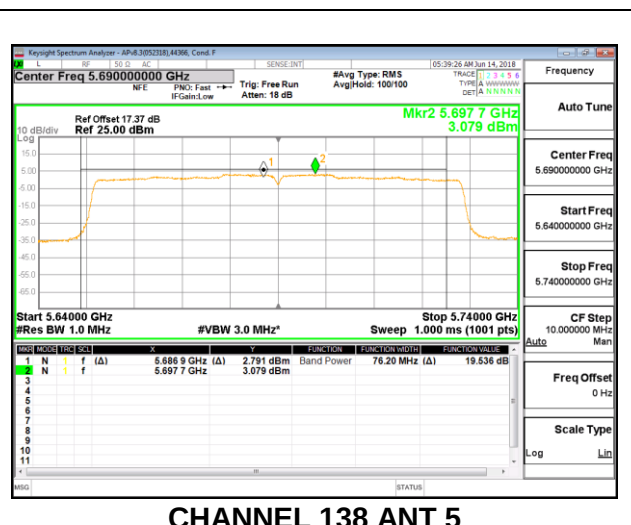


HIGH CHANNEL ANT 5

CHANNEL 138



CHANNEL 138 ANT 6



CHANNEL 138 ANT 5

8.5.10. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 6 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5745	-5.30	30.00	30.00
Mid	5785	-5.30	30.00	30.00
High	5825	-5.30	30.00	30.00
144	5720	-5.30	30.00	30.00

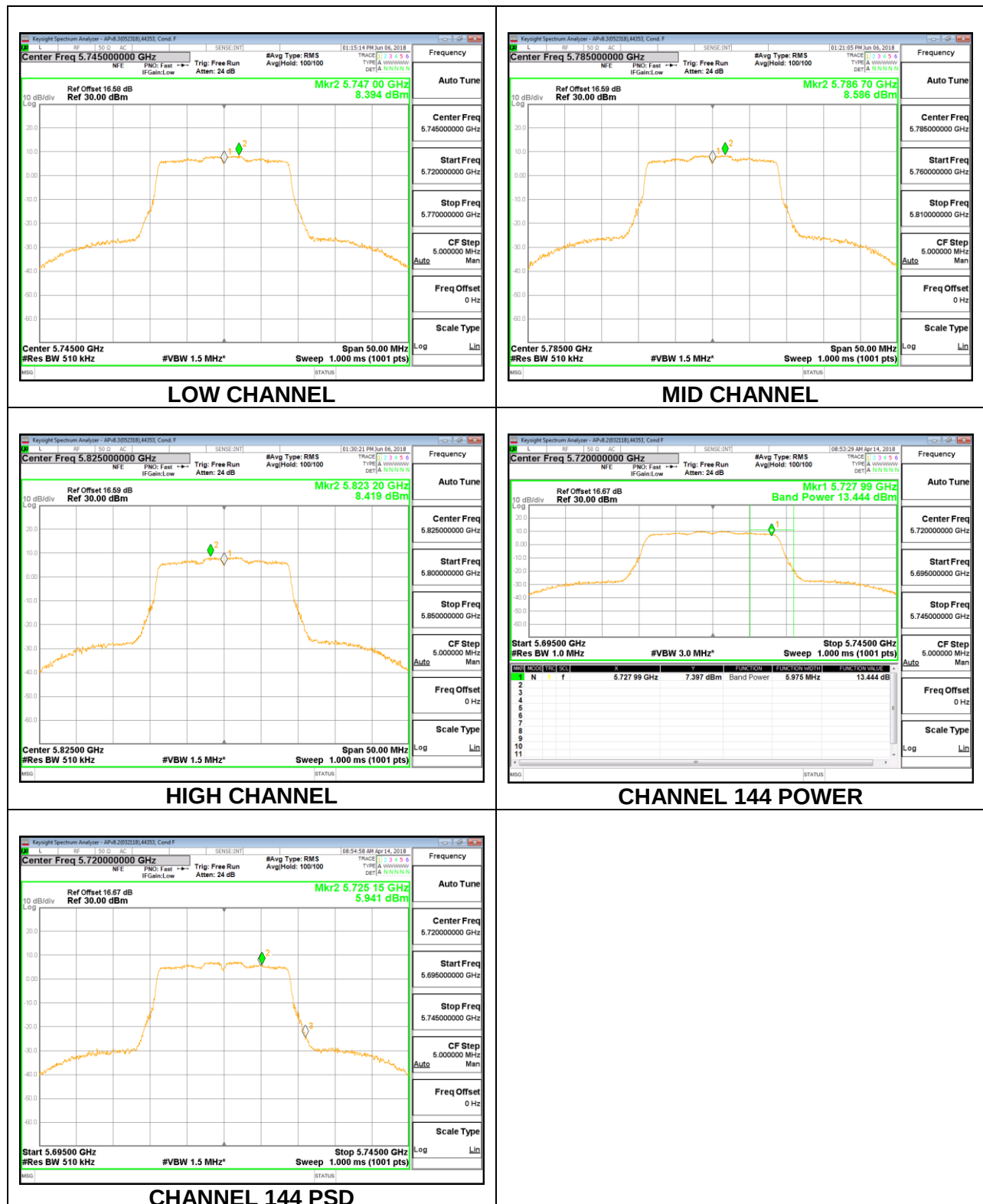
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	22.32	22.32	30.00	-7.68
Mid	5785	22.41	22.41	30.00	-7.59
High	5825	22.38	22.38	30.00	-7.62
144	5720	13.44	13.44	30.00	-16.56

PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	8.39	8.39	30.00	-21.61
Mid	5785	8.59	8.59	30.00	-21.41
High	5825	8.42	8.42	30.00	-21.58
144	5720	5.94	5.94	30.00	-24.06



1TX Antenna 5 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5745	-3.40	30.00	30.00
Mid	5785	-3.40	30.00	30.00
High	5825	-3.40	30.00	30.00
144	5720	-3.40	30.00	30.00

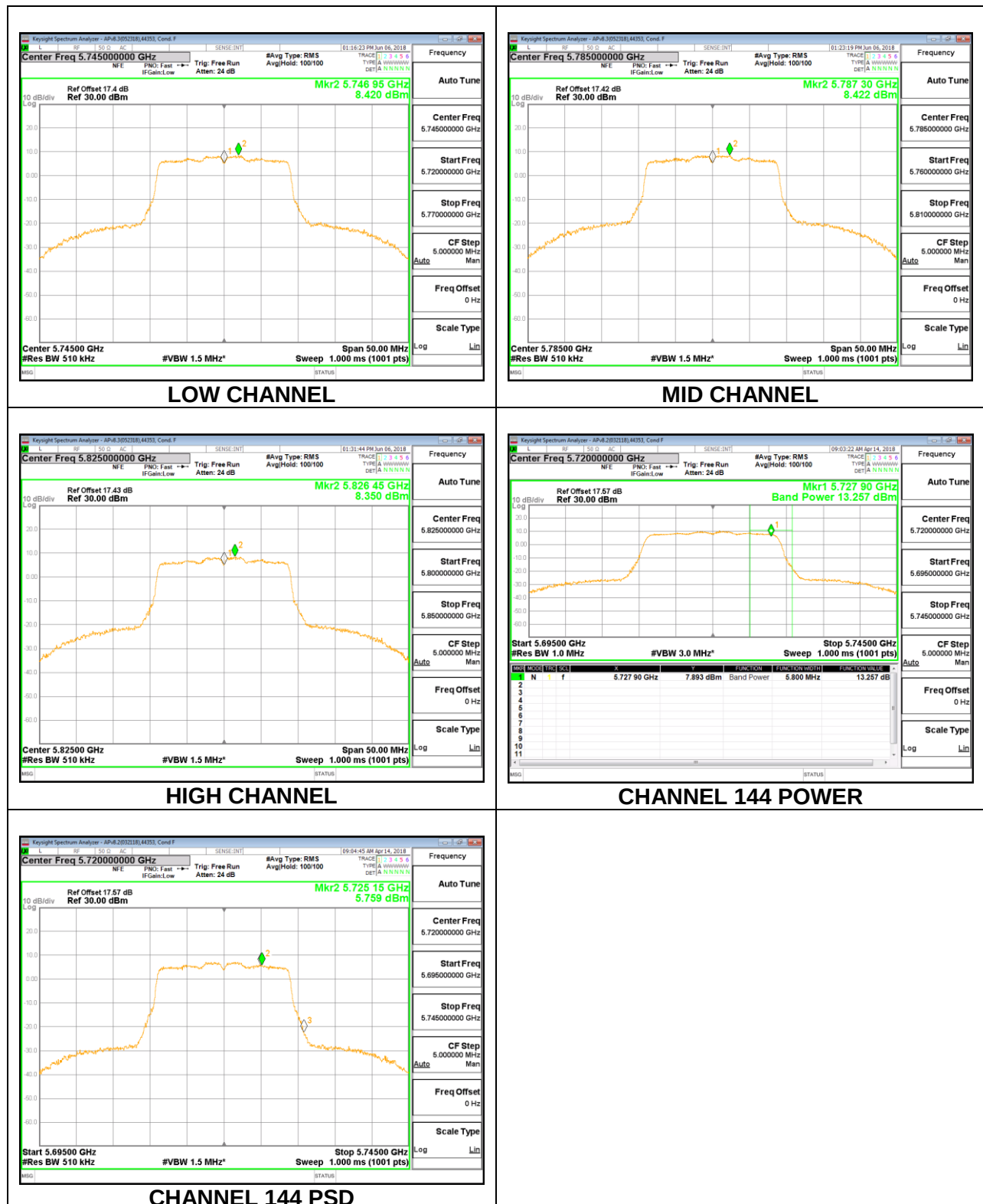
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (CH 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	22.27	22.27	30.00	-7.73
Mid	5785	22.41	22.41	30.00	-7.59
High	5825	22.38	22.38	30.00	-7.62
144	5720	13.26	13.26	30.00	-16.74

PSD Results

Channel	Frequency (MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	8.42	8.42	30.00	-21.58
Mid	5785	8.42	8.42	30.00	-21.58
High	5825	8.35	8.35	30.00	-21.65
144	5720	5.76	5.76	30.00	-24.24



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5745	-4.25	-1.29	30.00	30.00
Mid	5785	-4.25	-1.29	30.00	30.00
High	5825	-4.25	-1.29	30.00	30.00
144	5720	-4.25	-1.29	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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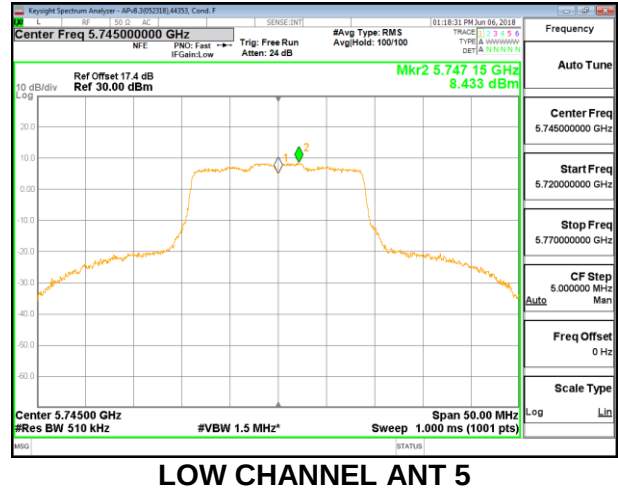
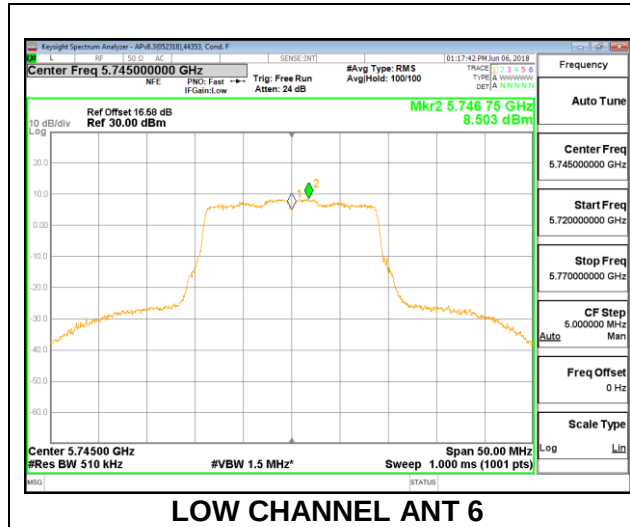
Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	22.34	22.31	25.34	30.00	-4.66
Mid	5785	22.41	22.32	25.38	30.00	-4.62
High	5825	22.38	22.40	25.40	30.00	-4.60
144	5720	10.47	10.46	13.48	30.00	-16.52

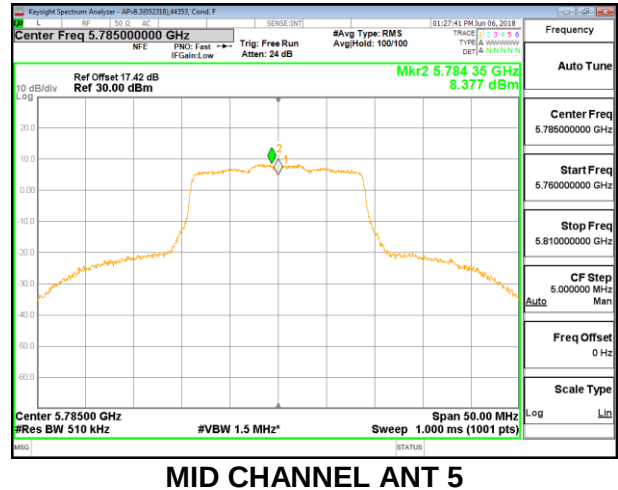
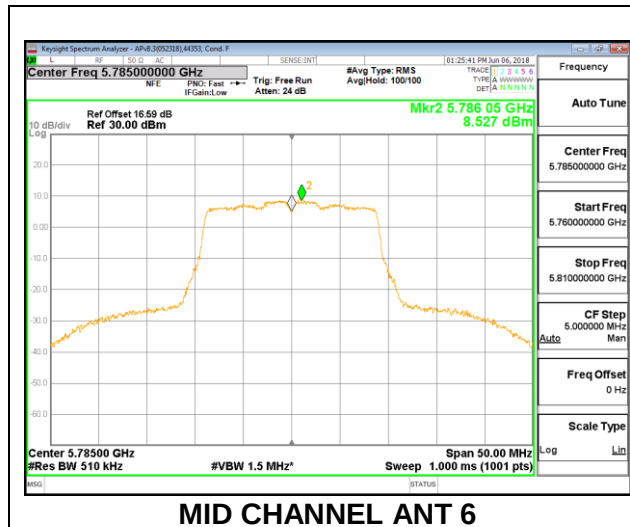
PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	8.50	8.43	11.48	30.00	-18.52
Mid	5785	8.53	8.38	11.46	30.00	-18.54
High	5825	8.48	8.49	11.50	30.00	-18.50
144	5720	2.73	2.64	5.69	30.00	-24.31

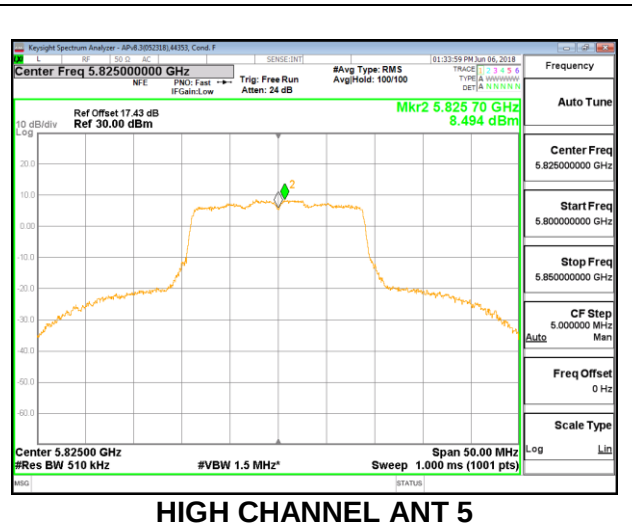
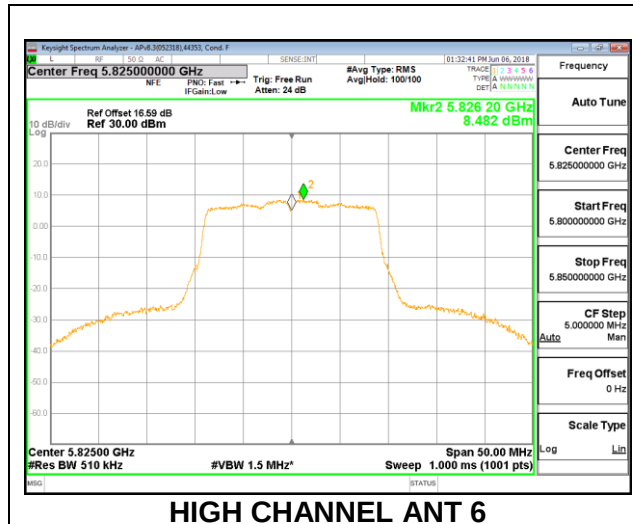
LOW CHANNEL



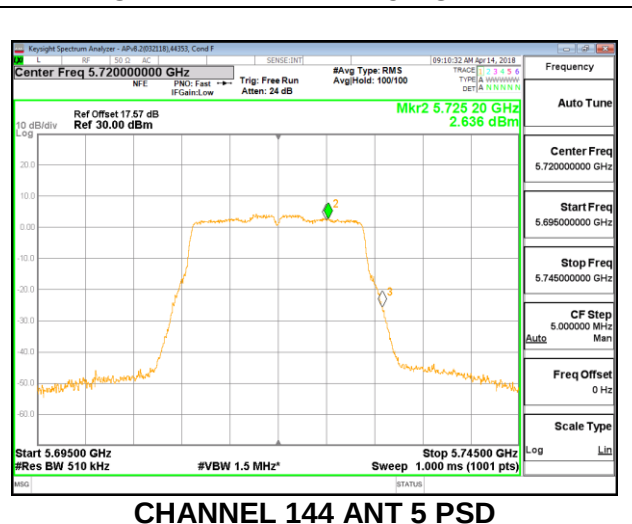
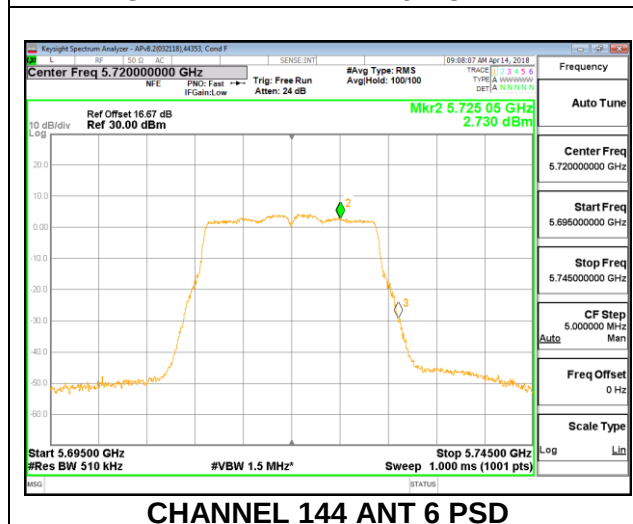
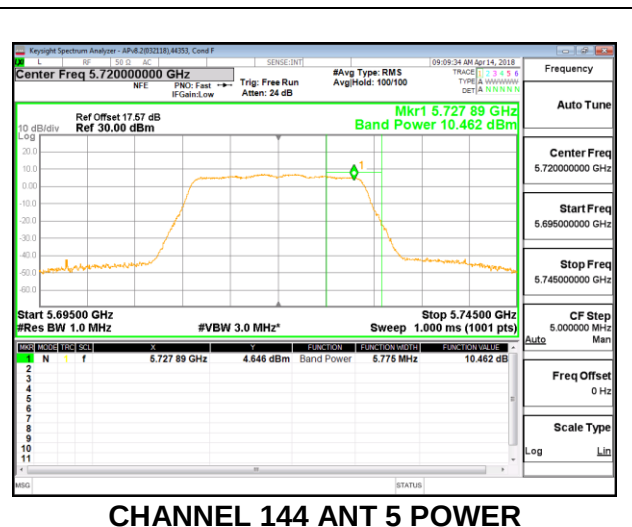
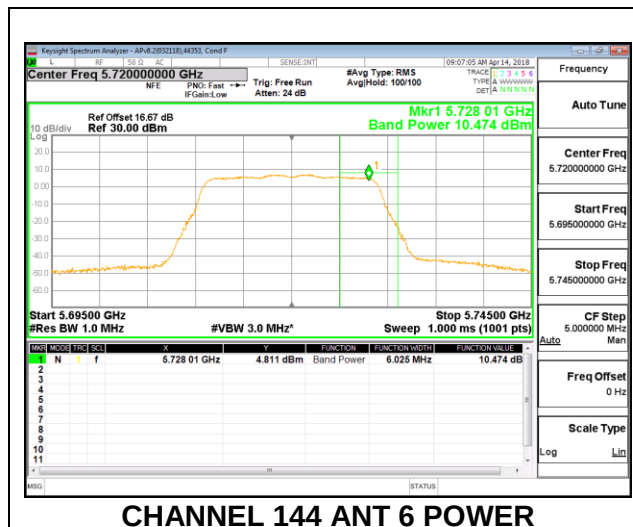
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.11. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 6 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5755	-5.30	30.00	30.00
High	5795	-5.30	30.00	30.00
142	5710	-5.30	30.00	30.00

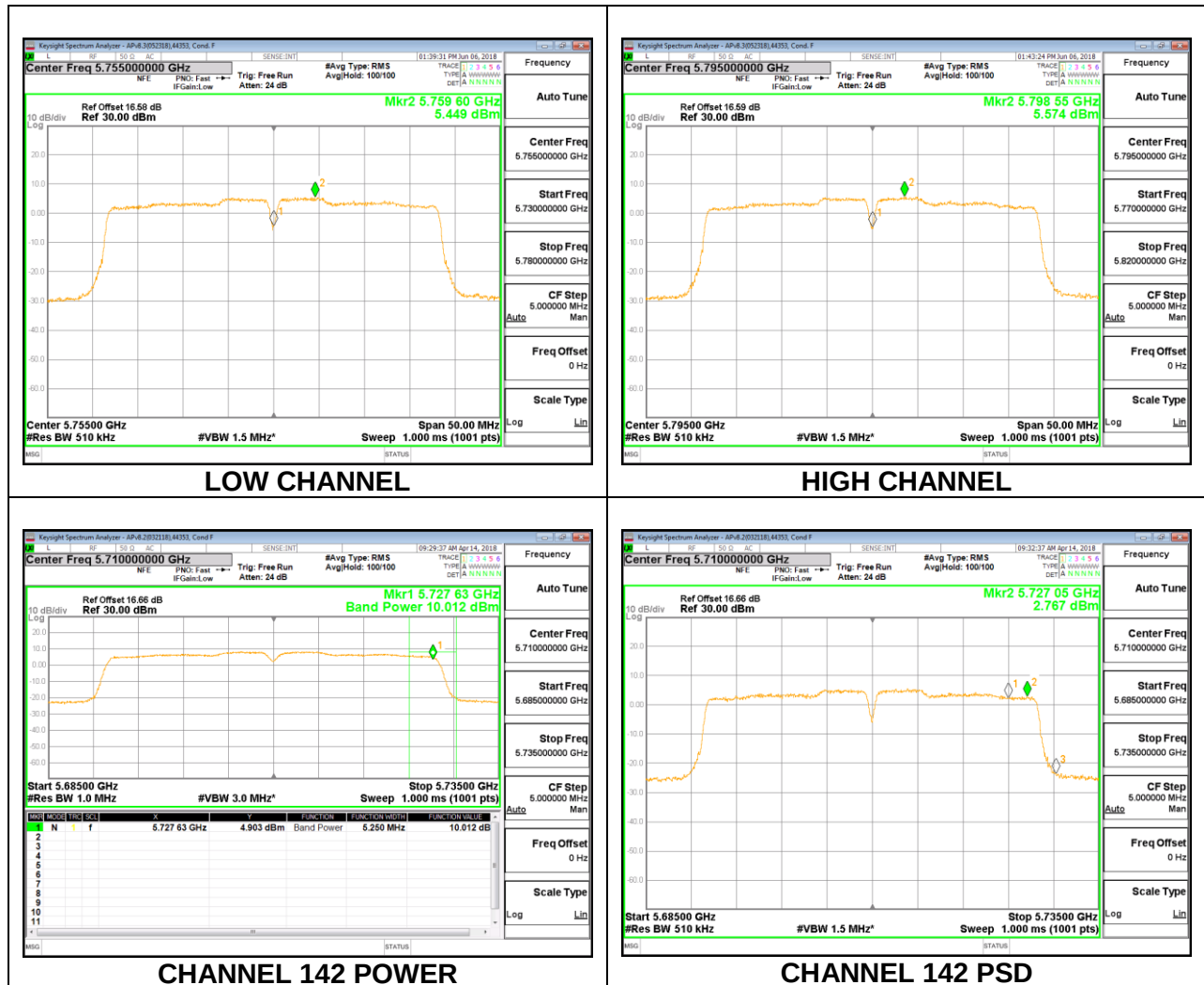
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power (Ch142) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	21.83	21.83	30.00	-8.17
High	5795	21.89	21.89	30.00	-8.11
142	5710	10.01	10.10	30.00	-19.90

PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	5.45	5.54	30.00	-24.46
High	5795	5.57	5.66	30.00	-24.34
142	5710	2.77	2.86	30.00	-27.14



1TX Antenna 5 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5755	-3.40	30.00	30.00
High	5795	-3.40	30.00	30.00
142	5710	-3.40	30.00	30.00

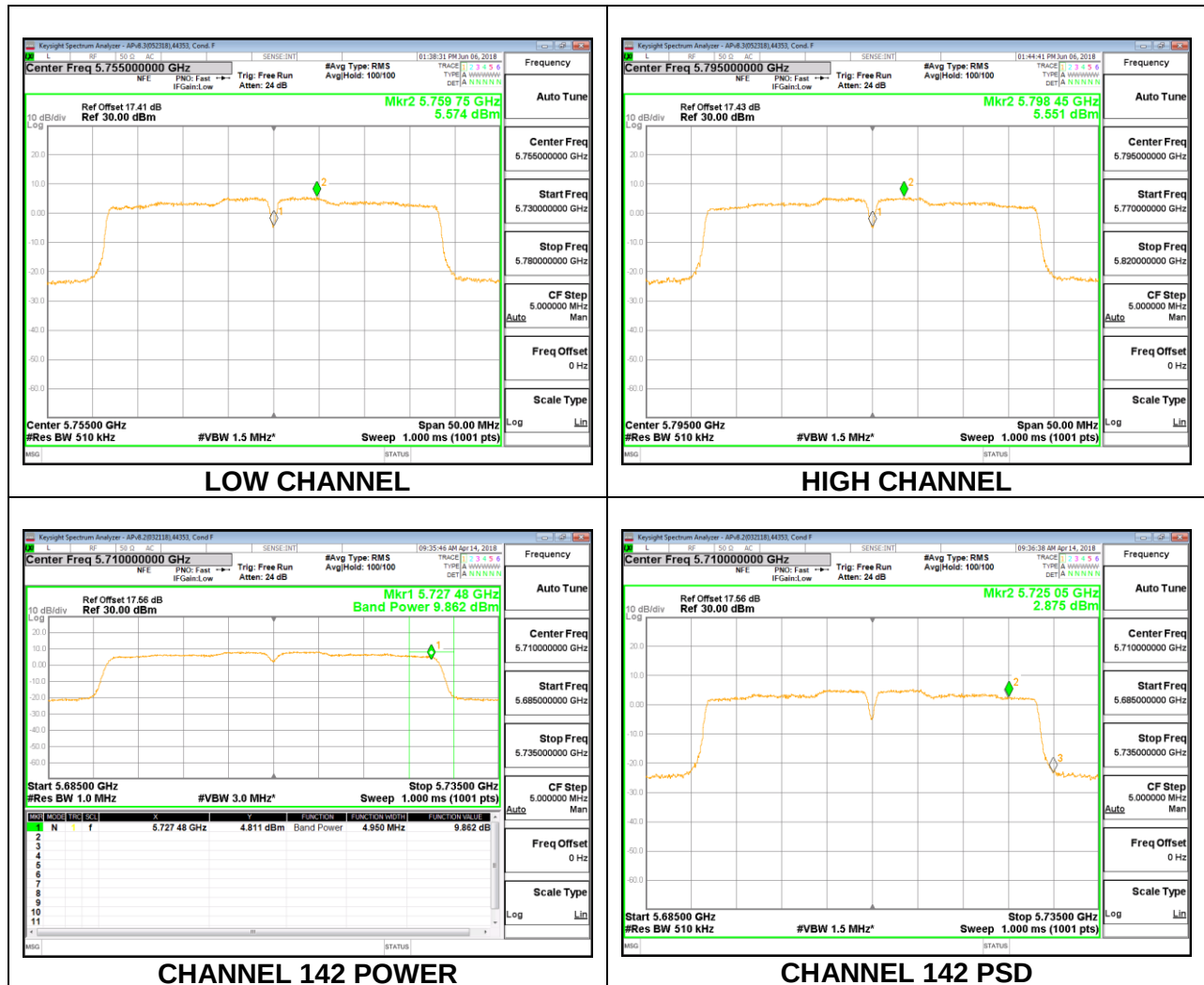
Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	21.92	21.92	30.00	-8.08
High	5795	21.88	21.88	30.00	-8.12
142	5710	9.86	9.95	30.00	-20.05

PSD Results

Channel	Frequency (MHz)	ANT 5 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	5.57	5.66	30.00	-24.34
High	5795	5.55	5.64	30.00	-24.36
142	5710	2.88	2.97	30.00	-27.04



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5755	-4.25	-1.29	30.00	30.00
High	5795	-4.25	-1.29	30.00	30.00
142	5710	-4.25	-1.29	30.00	30.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power (Ch 142) & PSD
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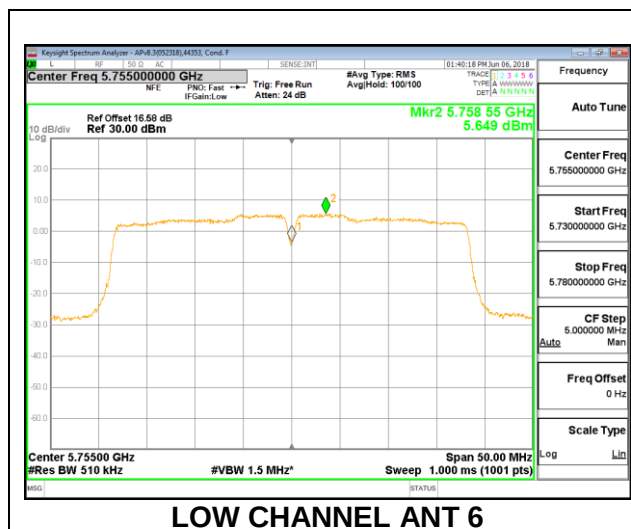
Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	21.93	21.91	24.93	30.00	-5.07
High	5795	21.79	21.82	24.82	30.00	-5.18
142	5710	8.05	8.14	11.20	30.00	-18.80

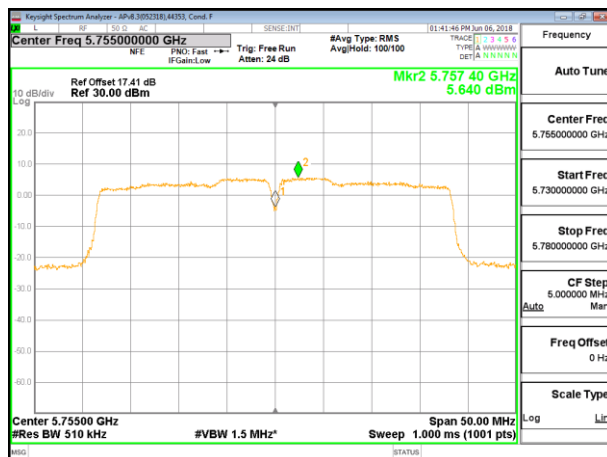
PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5755	5.65	5.64	8.74	30.00	-21.26
High	5795	5.49	5.52	8.61	30.00	-21.39
142	5710	0.94	0.92	4.03	30.00	-25.97

LOW CHANNEL

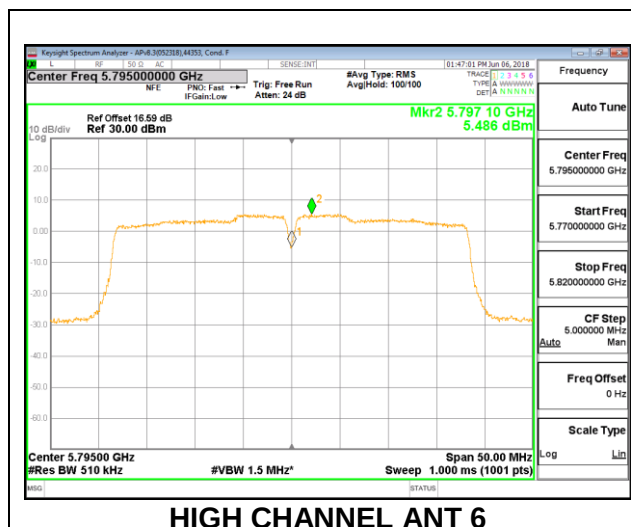


LOW CHANNEL ANT 6

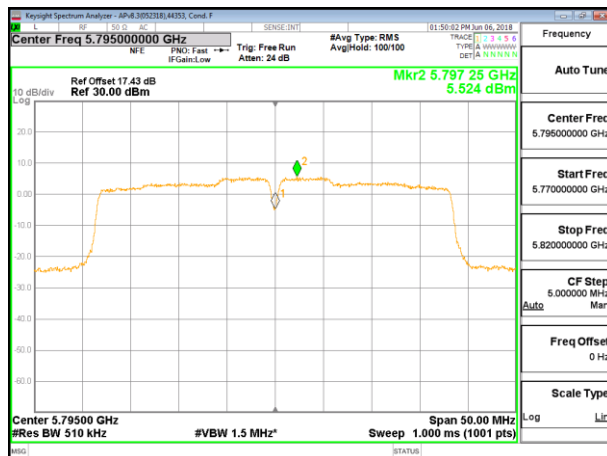


LOW CHANNEL ANT 5

HIGH CHANNEL

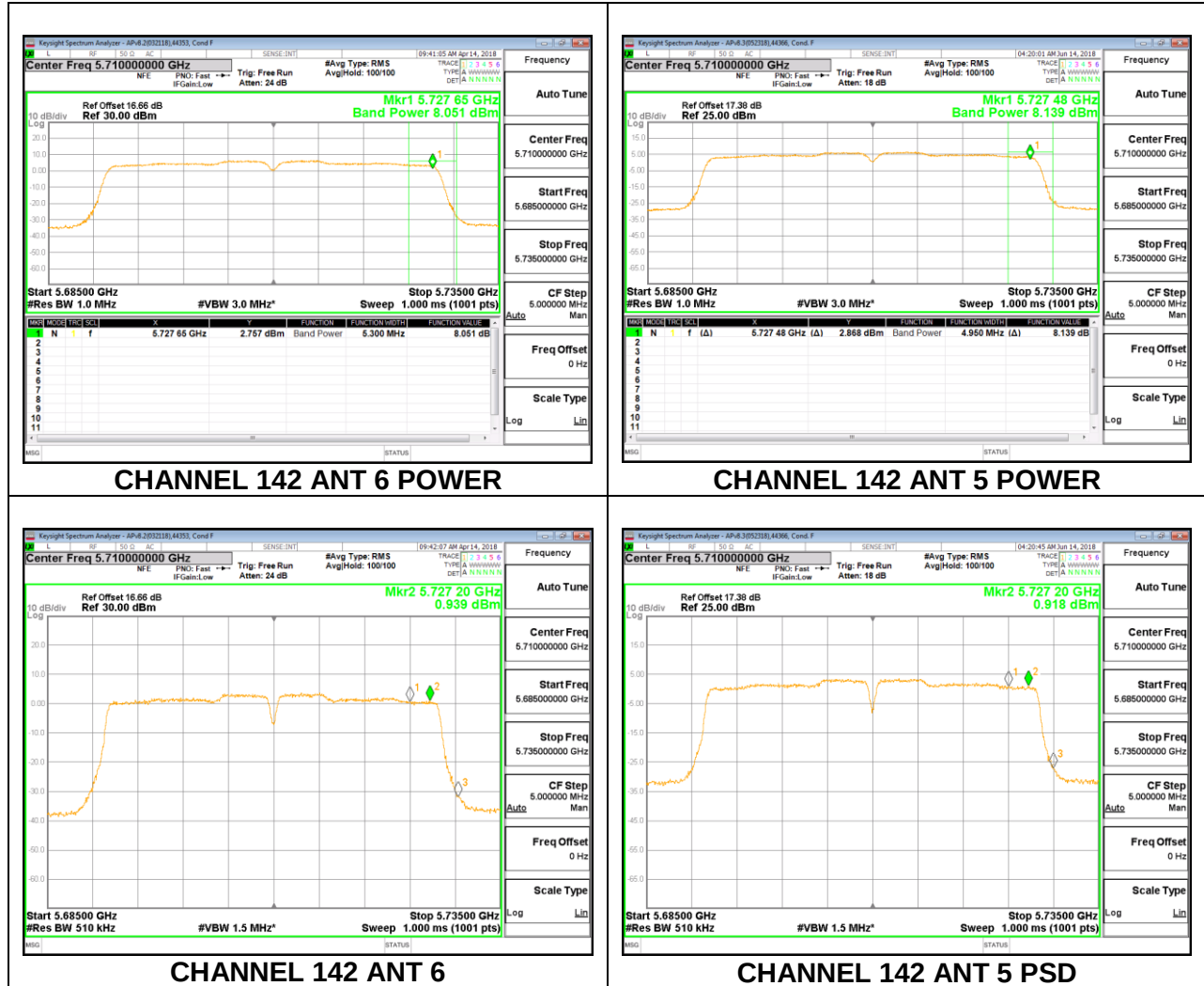


HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5

CHANNEL 142



8.5.12. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 6 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5775	-5.30	30.00	30.00
138	5690	-5.30	30.00	30.00

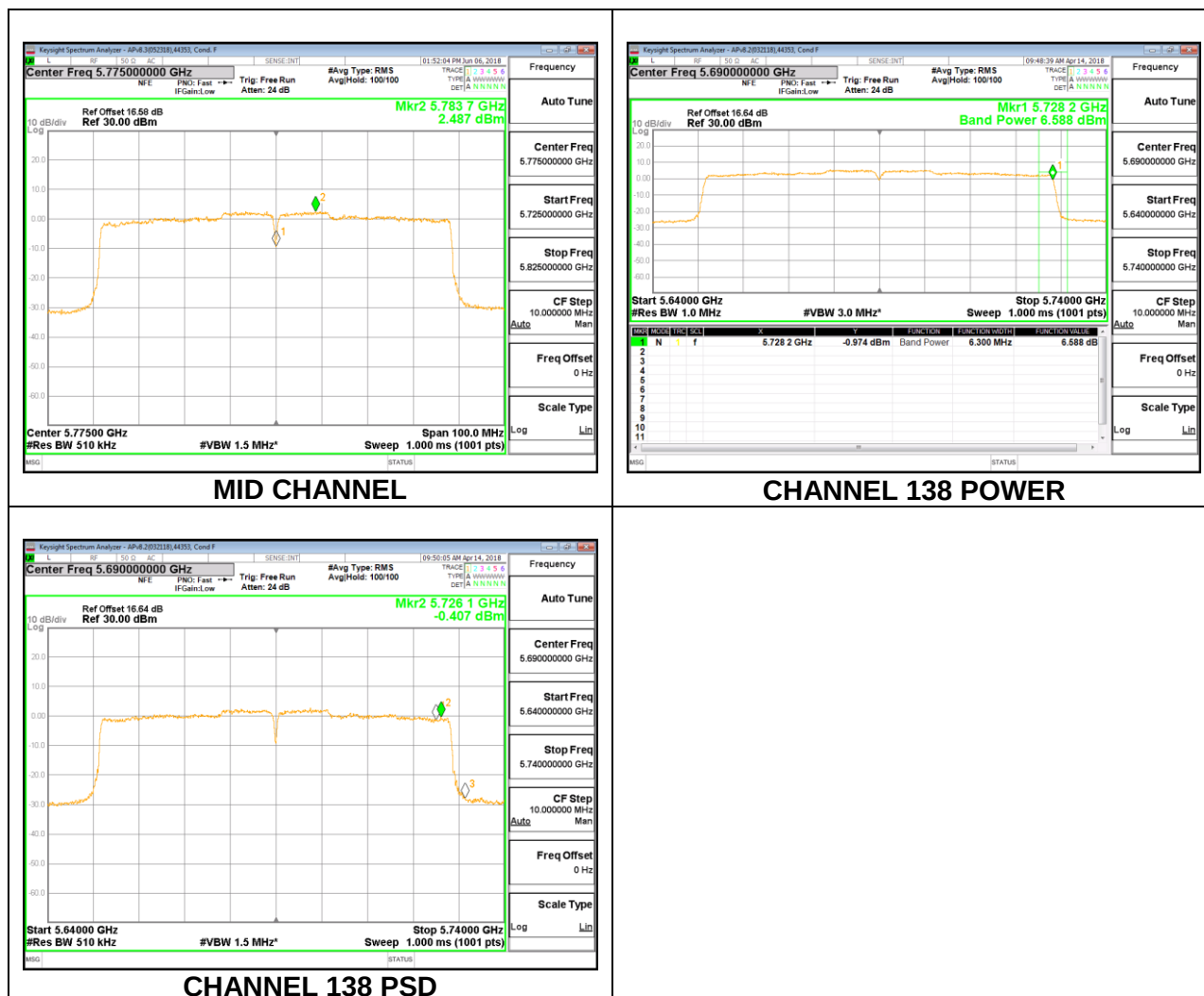
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	21.87	21.87	30.00	-8.13
138	5690	6.59	6.78	30.00	-23.22

PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	2.487	2.677	30.00	-27.32
138	5690	-0.407	-0.217	30.00	-30.22



1TX Antenna 5 MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5775	-3.40	30.00	30.00
138	5690	-3.40	30.00	30.00

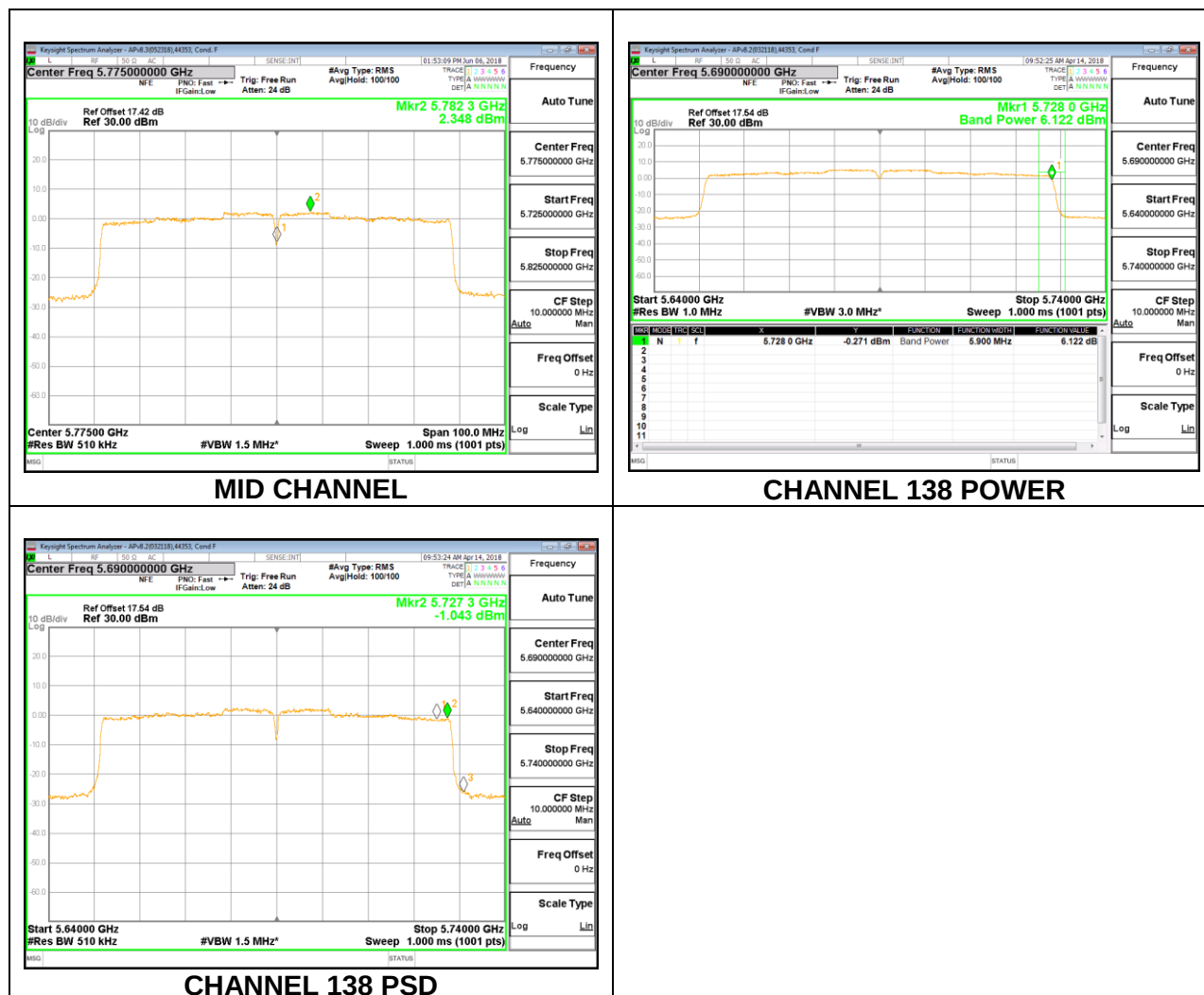
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	21.80	21.80	30.00	-8.20
138	5690	6.12	6.31	30.00	-23.69

PSD Results

Channel	Frequency (MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	2.35	2.54	30.00	-27.46
138	5690	-1.04	-0.85	30.00	-30.85



2TX Antenna 6 + Antenna 5 CDD MODE (FCC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5755	-4.25	-1.29	30.00	30.00
138	5690	-4.25	-1.29	30.00	30.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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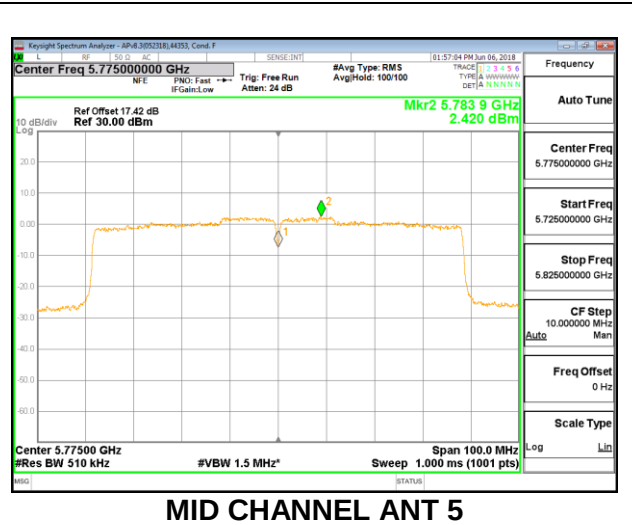
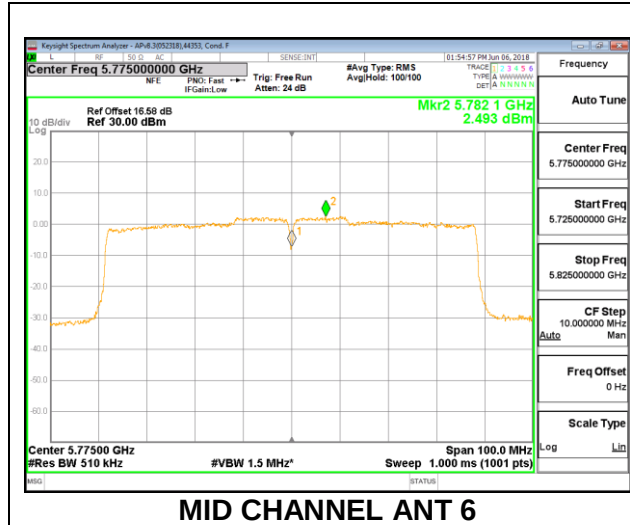
Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	21.88	21.83	24.87	30.00	-5.13
138	5690	4.85	4.43	7.84	30.00	-22.16

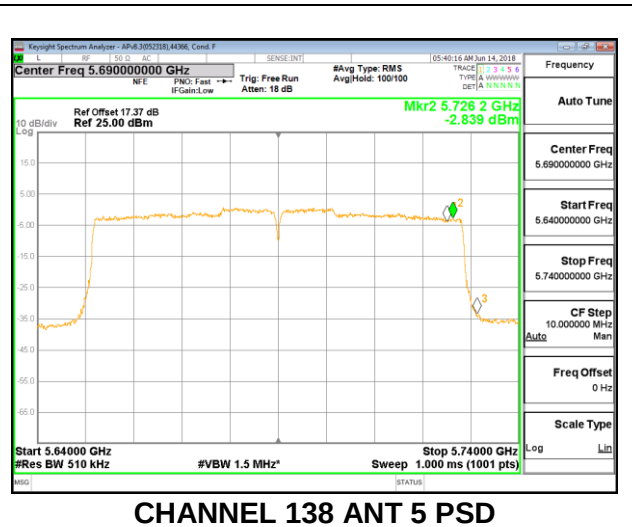
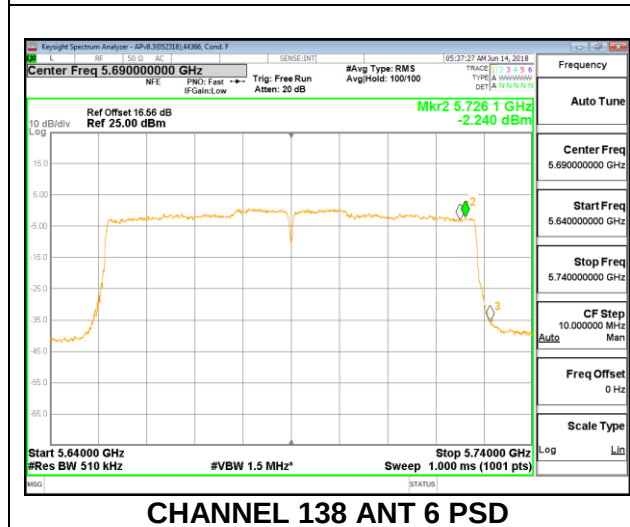
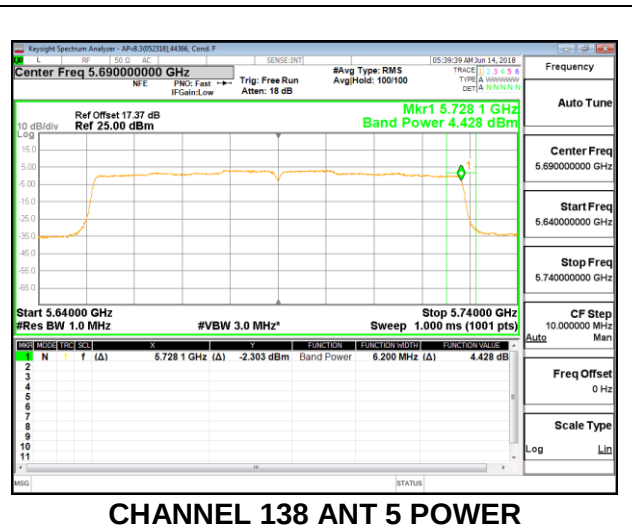
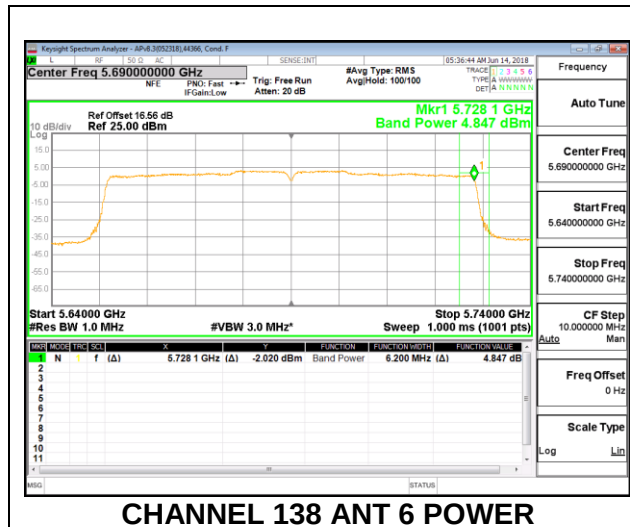
PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm/ 1MHz)	ANT 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	2.49	2.42	5.66	30.00	-24.34
138	5690	-2.24	-2.84	0.67	30.00	-29.33

MID CHANNEL



CHANNEL 138



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209

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.

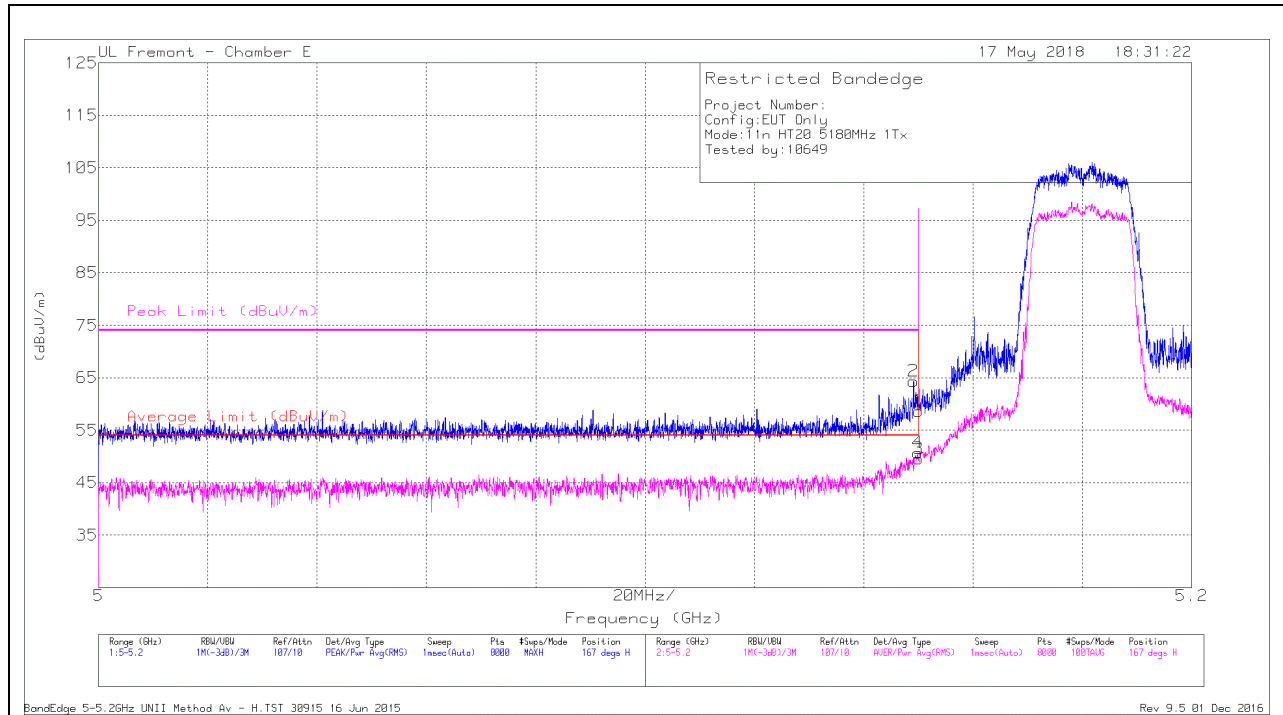
9.1. TRANSMITTER ABOVE 1 GHz

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

1TX Antenna 6 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



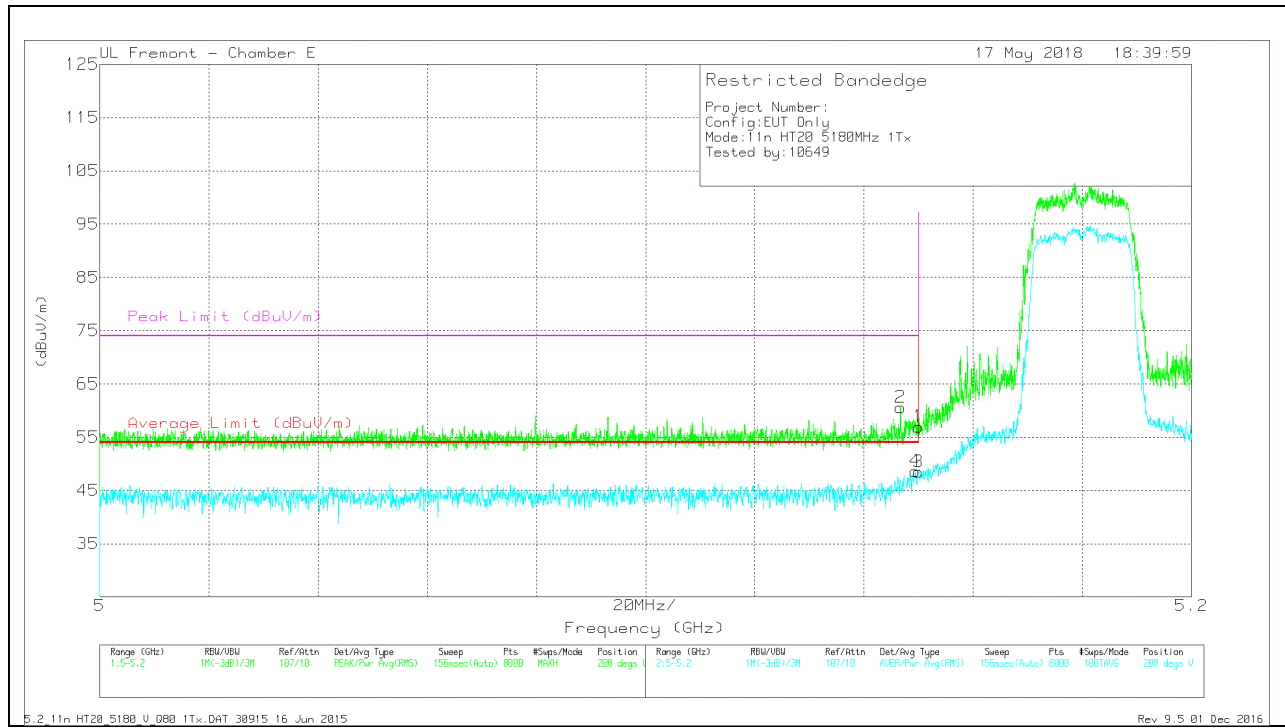
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.61	Pk	34.8	-19.8	58.61	-	-	74	-15.39	167	148	H
2	* 5.149	49.36	Pk	34.8	-19.8	64.36	-	-	74	-9.64	167	148	H
3	* 5.15	34.49	RMS	34.8	-19.8	49.49	54	-4.51	-	-	167	148	H
4	* 5.15	35.68	RMS	34.8	-19.8	50.68	54	-3.32	-	-	167	148	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

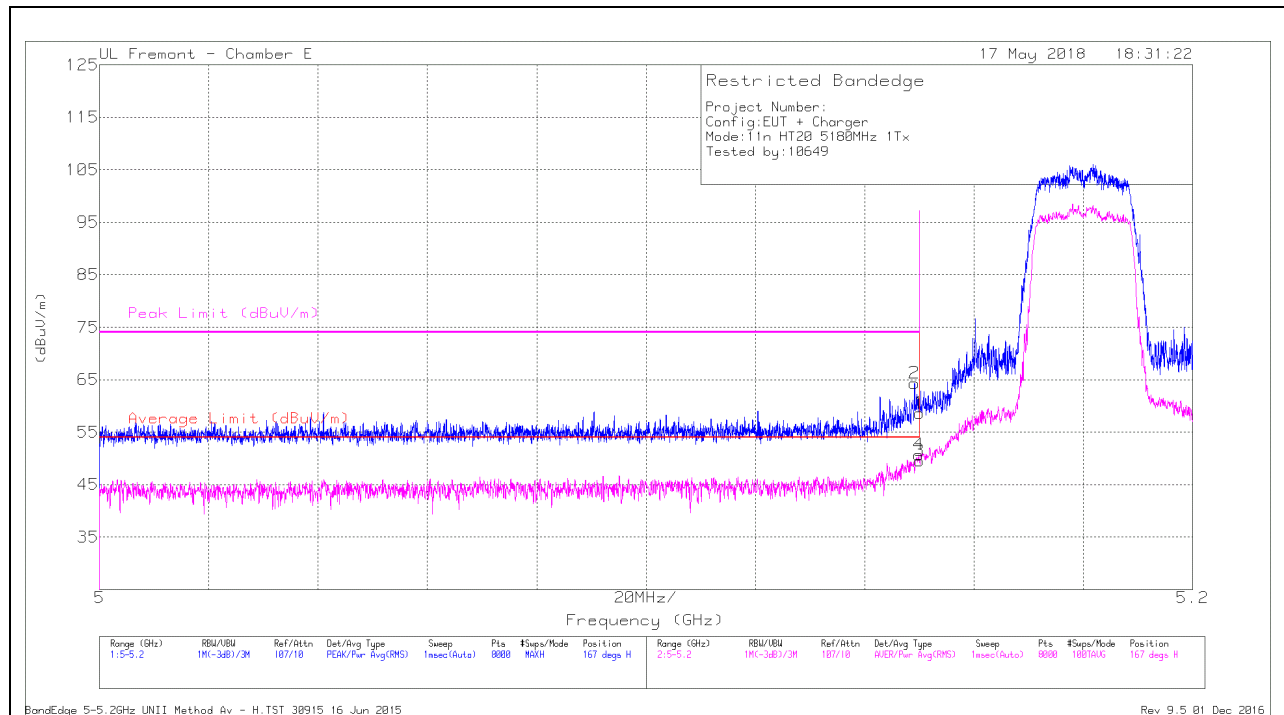


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.96	Pk	34.8	-19.8	56.96	-	-	74	-17.04	208	190	V
2	* 5.147	45.69	Pk	34.7	-19.8	60.59	-	-	74	-13.41	208	190	V
3	* 5.15	33.5	RMS	34.8	-19.8	48.5	54	-5.5	-	-	208	190	V
4	* 5.149	33.59	RMS	34.8	-19.8	48.59	54	-5.41	-	-	208	190	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**

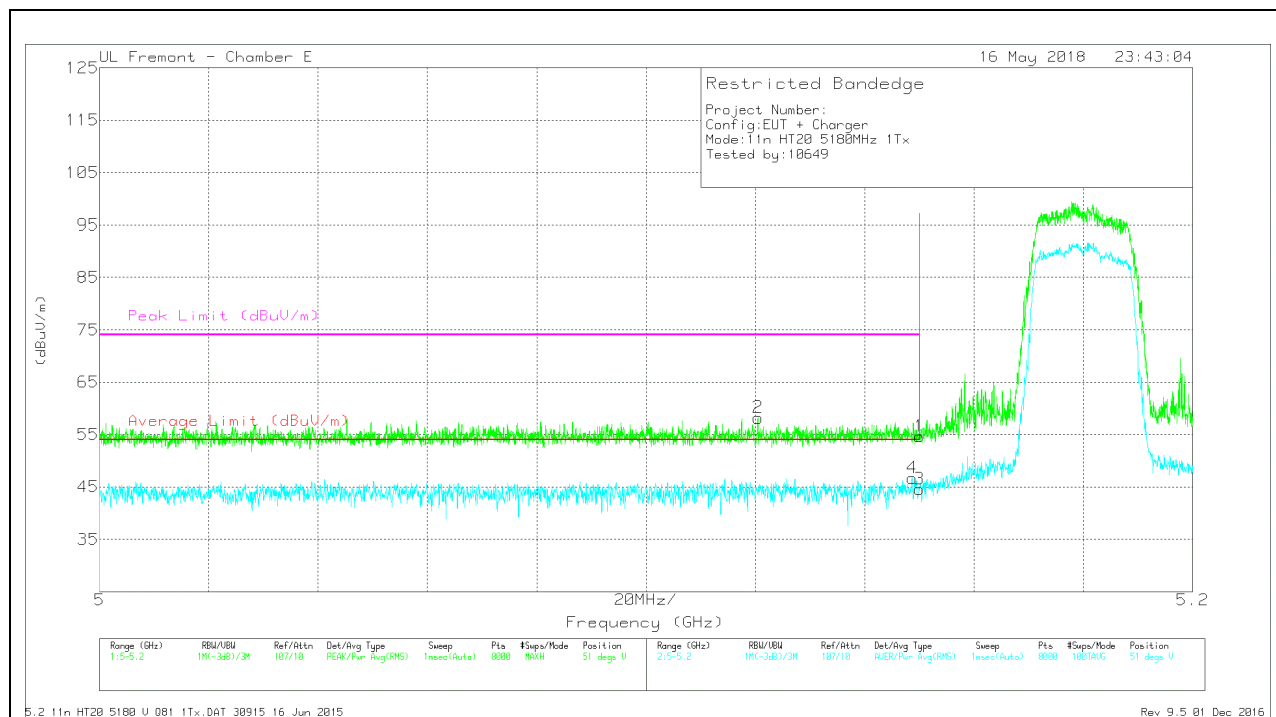
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.147	48.82	Pk	34.7	-19.8	63.72	-	-	74	-10.28	290	103	H
1	* 5.15	44.35	Pk	34.8	-19.8	59.35	-	-	74	-14.65	290	103	H
3	* 5.15	34.53	RMS	34.8	-19.8	49.53	54	-4.47	-	-	290	103	H
4	* 5.15	35.82	RMS	34.8	-19.8	50.82	54	-3.18	-	-	290	103	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

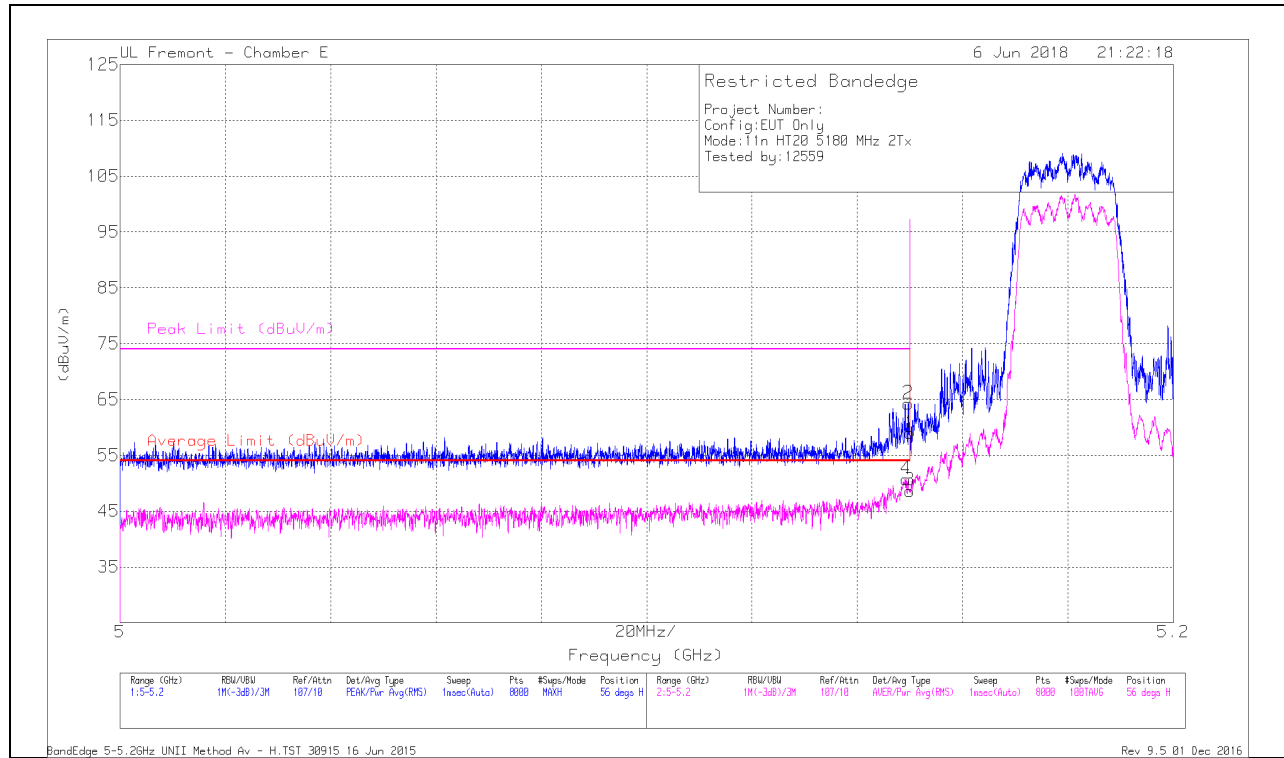


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.12	43.38	Pk	34.7	-19.9	58.18	-	-	74	-15.82	51	134	V
4	* 5.149	31.71	RMS	34.8	-19.8	46.71	54	-7.29	-	-	51	134	V
1	* 5.15	39.67	Pk	34.8	-19.8	54.67	-	-	74	-19.33	51	134	V
3	* 5.15	29.6	RMS	34.8	-19.8	44.6	54	-9.4	-	-	51	134	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**

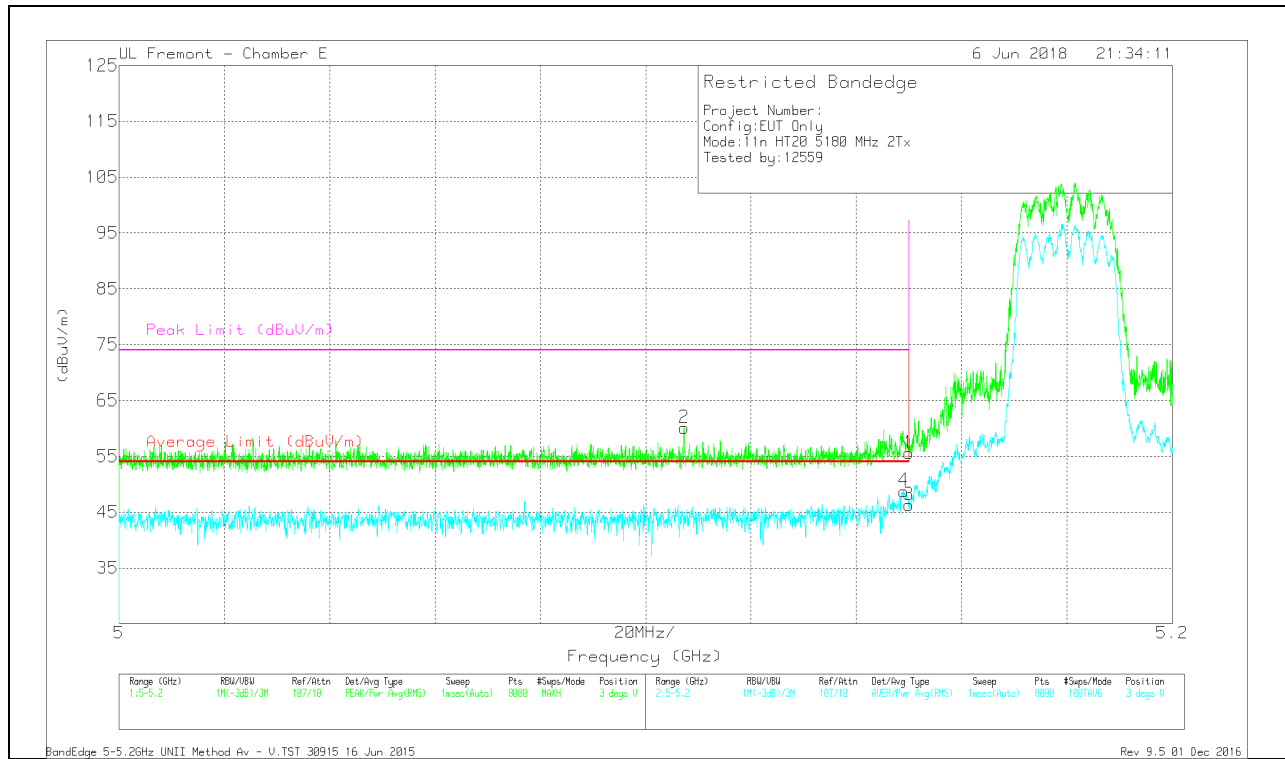
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.97	Pk	34.8	-19.8	58.97	-	-	74	-15.03	56	164	H
2	* 5.15	49.27	Pk	34.8	-19.8	64.27	-	-	74	-9.73	56	164	H
3	* 5.15	33.67	RMS	34.8	-19.8	48.67	54	-5.33	-	-	56	164	H
4	* 5.149	35.71	RMS	34.8	-19.8	50.71	54	-3.29	-	-	56	164	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 T346 (dB/m)	Ampl/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	40.58	Pk	34.8	-19.8	55.58	-	-	74	-18.42	3	192	V
2	* 5.107	45.27	Pk	34.7	-19.9	60.07	-	-	74	-13.93	3	192	V
3	* 5.15	31.29	RMS	34.8	-19.8	46.29	54	-7.71	-	-	3	192	V
4	* 5.149	33.76	RMS	34.8	-19.8	48.76	54	-5.24	-	-	3	192	V

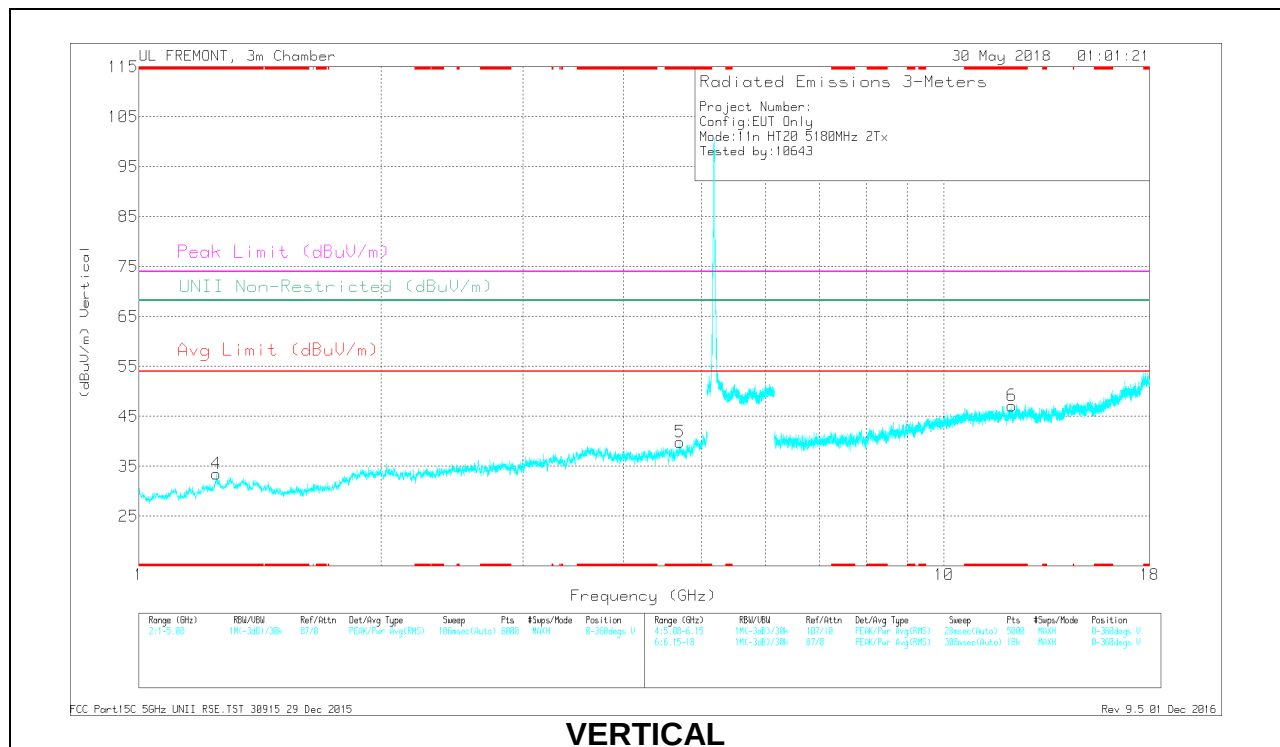
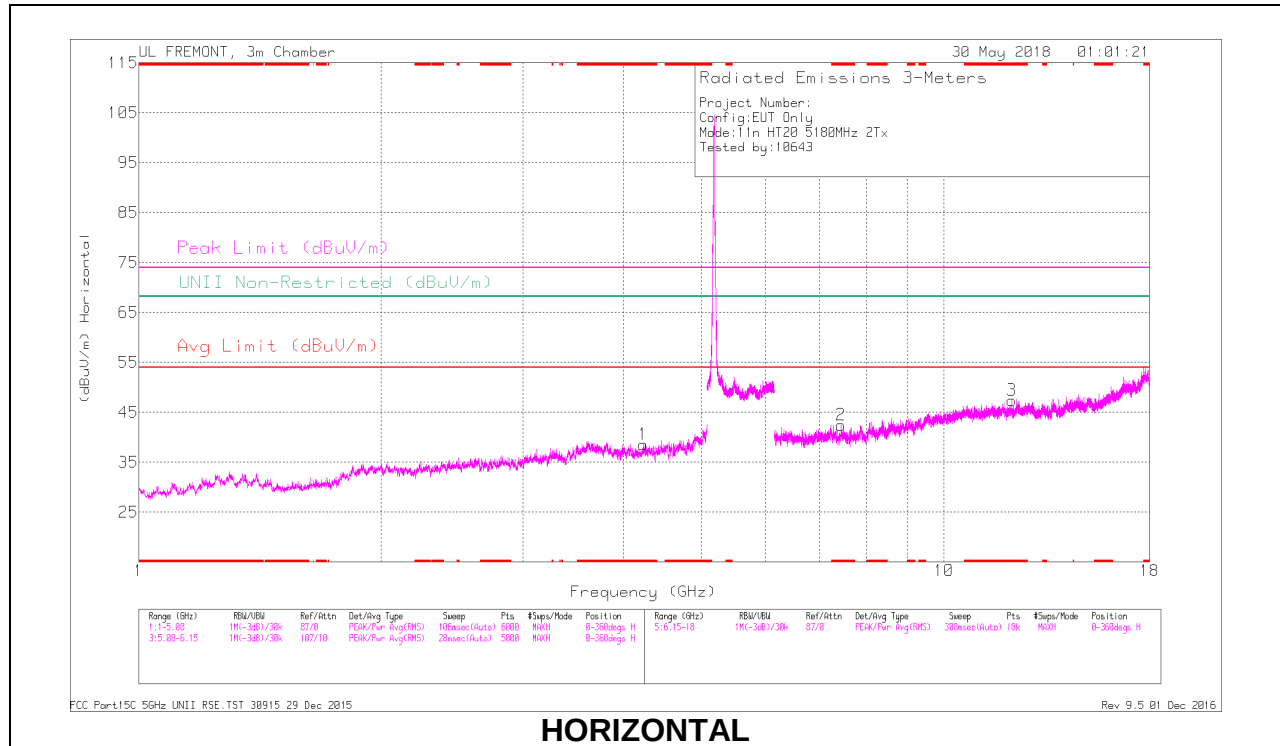
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

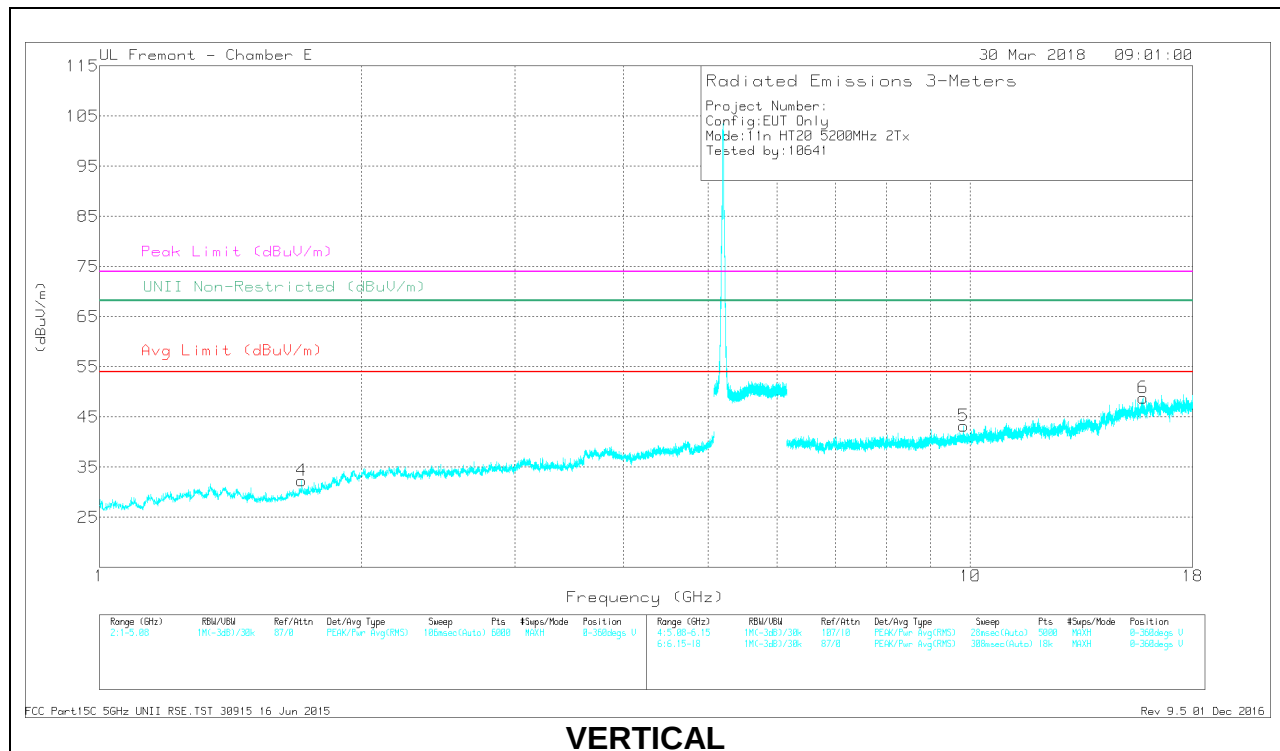
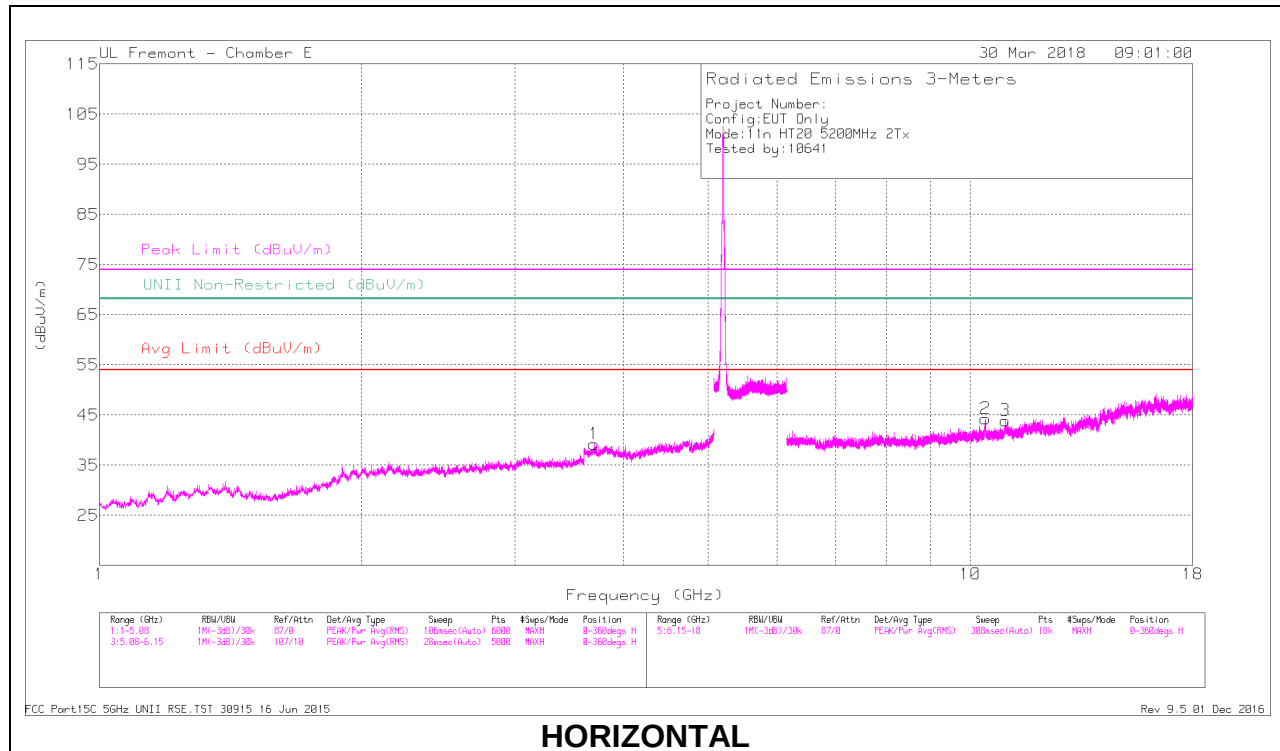
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.232	40.65	PK-U	33.4	-28.8	45.25	-	-	74	-28.75	-	-	221	327	H
* 4.233	28.98	ADR	33.4	-28.8	33.58	54	-20.42	-	-	-	-	221	327	H
* 1.249	41.73	PK-U	29.9	-31.8	39.83	-	-	74	-34.17	-	-	193	391	V
* 1.25	29.9	ADR	29.9	-31.8	28	54	-26	-	-	-	-	193	391	V
* 4.702	40.17	PK-U	34	-27.1	47.07	-	-	74	-26.93	-	-	25	104	V
* 4.702	28.27	ADR	34	-27.1	35.17	54	-18.83	-	-	-	-	25	104	V
* 7.451	37.26	PK-U	35.7	-24.2	48.76	-	-	74	-25.24	-	-	112	234	H
* 7.451	25.79	ADR	35.7	-24.3	37.19	54	-16.81	-	-	-	-	112	234	H
* 12.144	36.72	PK-U	39.1	-20.9	54.92	-	-	74	-19.08	-	-	118	235	H
* 12.144	24.2	ADR	39.1	-20.9	42.4	54	-11.6	-	-	-	-	118	235	H
* 12.145	35.79	PK-U	39.1	-21	53.89	-	-	74	-20.11	-	-	38	258	V
* 12.145	24.24	ADR	39.1	-21	42.34	54	-11.66	-	-	-	-	38	258	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



RADIATED EMISSIONS

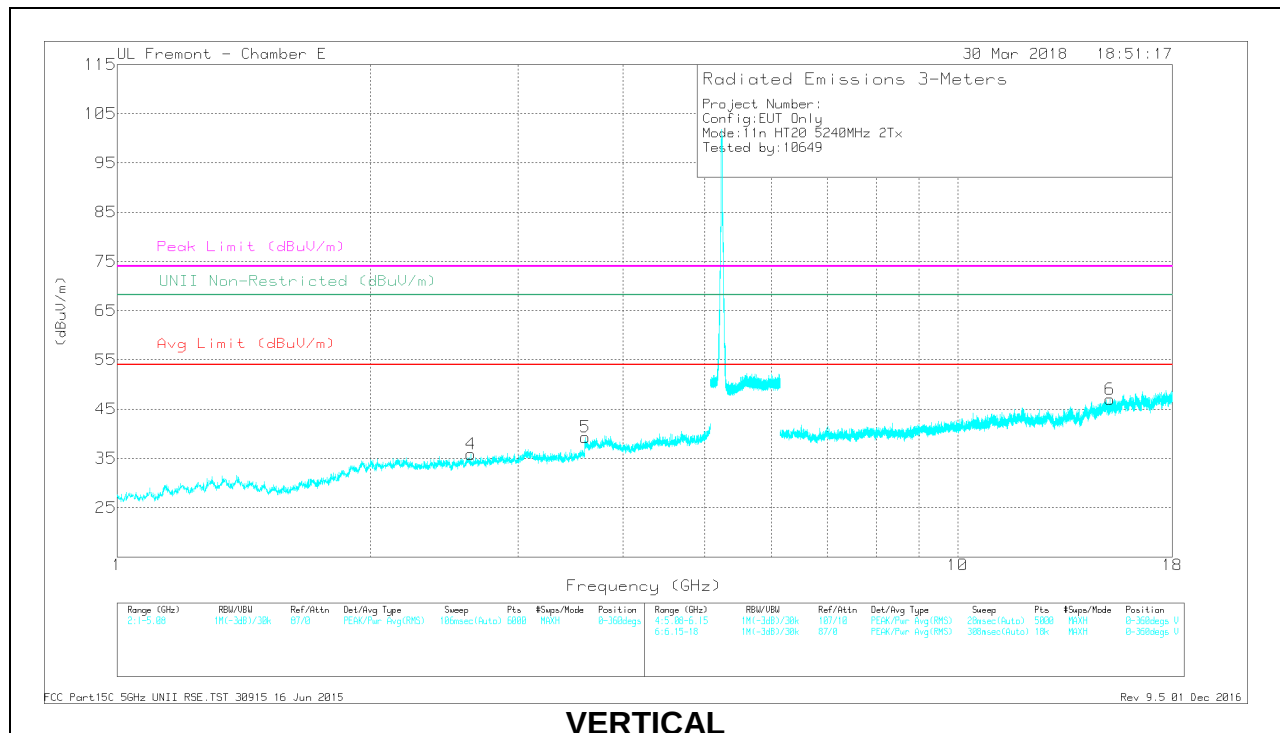
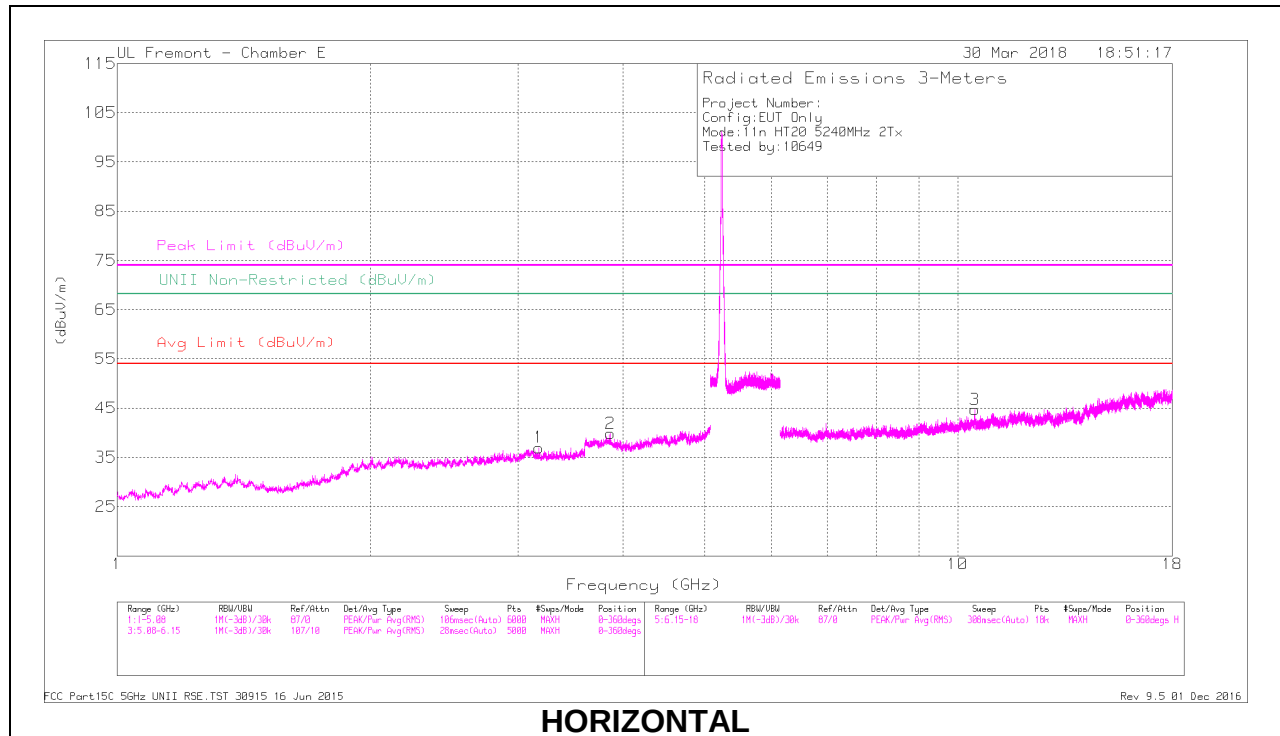
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Filr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.695	42.04	PK-U	33.5	-30.2	45.34	-	-	74	-28.66	-	-	203	131	H
	* 3.696	29.43	ADR	33.5	-30.2	32.73	54	-21.27	-	-	-	-	203	131	H
4	* 1.706	43.5	PK-U	28.3	-33.2	38.6	-	-	74	-35.4	-	-	151	218	V
	* 1.709	31.26	ADR	28.4	-33.2	26.46	54	-27.54	-	-	-	-	151	218	V
3	* 10.971	35.78	PK-U	38.4	-22.8	51.38	-	-	74	-22.62	-	-	275	132	H
	* 10.971	22.96	ADR	38.4	-22.8	38.56	54	-15.44	-	-	-	-	275	132	H
6	* 15.798	35.45	PK-U	41.7	-22.8	54.35	-	-	74	-19.65	-	-	26	184	V
	* 15.801	22.45	ADR	41.7	-22.8	41.35	54	-12.65	-	-	-	-	26	184	V
5	9.819	35.83	PK-U	37.6	-24.1	49.33	-	-	-	-	68.2	-18.87	317	152	V
2	10.407	36.15	PK-U	37.7	-23.3	50.55	-	-	-	-	68.2	-17.65	266	101	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



RADIATED EMISSIONS

Markers	Frequency (MHz)	Meter Reading (dBμV)	Det	AF 15dB (dB/m)	Amp/Ch/Hz/Pad (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
2	* 3.866	41.71	PK-U	33.7	-29	46.41	-	-	74	-27.59	-	-	236	350	H
	* 3.865	29.3	ADR	33.7	-29	34	54	-20	-	-	-	-	236	350	H
5	* 3.609	41.66	PK-U	33.3	-29.6	45.36	-	-	74	-28.64	-	-	204	360	V
	* 3.61	29.19	ADR	33.3	-29.7	32.79	54	-21.21	-	-	-	-	204	360	V
4	2.639	41.18	PK-U	32.3	-31.2	42.28	-	-	-	-	68.2	-25.92	288	375	V
1	3.174	41.93	PK-U	33	-31.5	43.43	-	-	-	-	68.2	-24.77	221	115	H
3	10.483	35.45	PK-U	37.9	-23.1	50.25	-	-	-	-	68.2	-17.95	61	310	H
6	15.179	35.6	PK-U	41.4	-23.1	53.9	-	-	-	-	68.2	-14.3	110	291	V

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

PK-U - U-NII: Maximum Peak

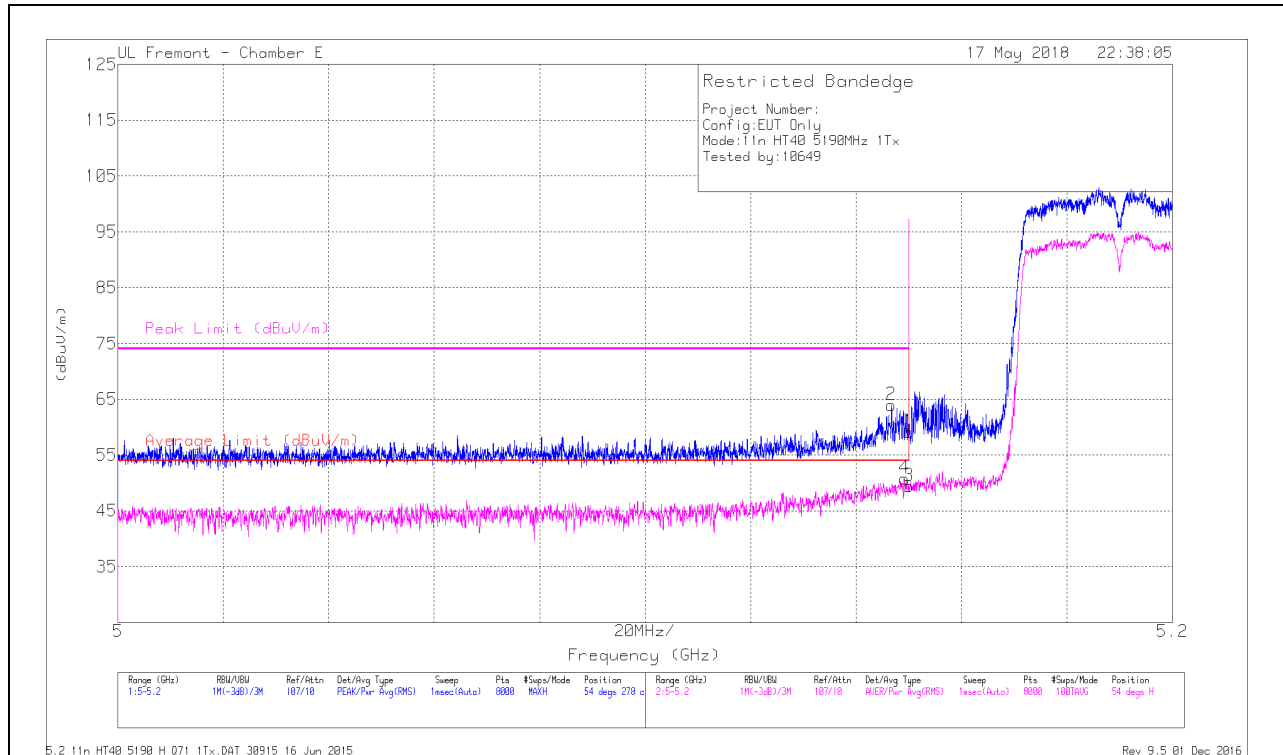
ADR - U-NII AD primary method, RMS average

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

1TX Antenna 6 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



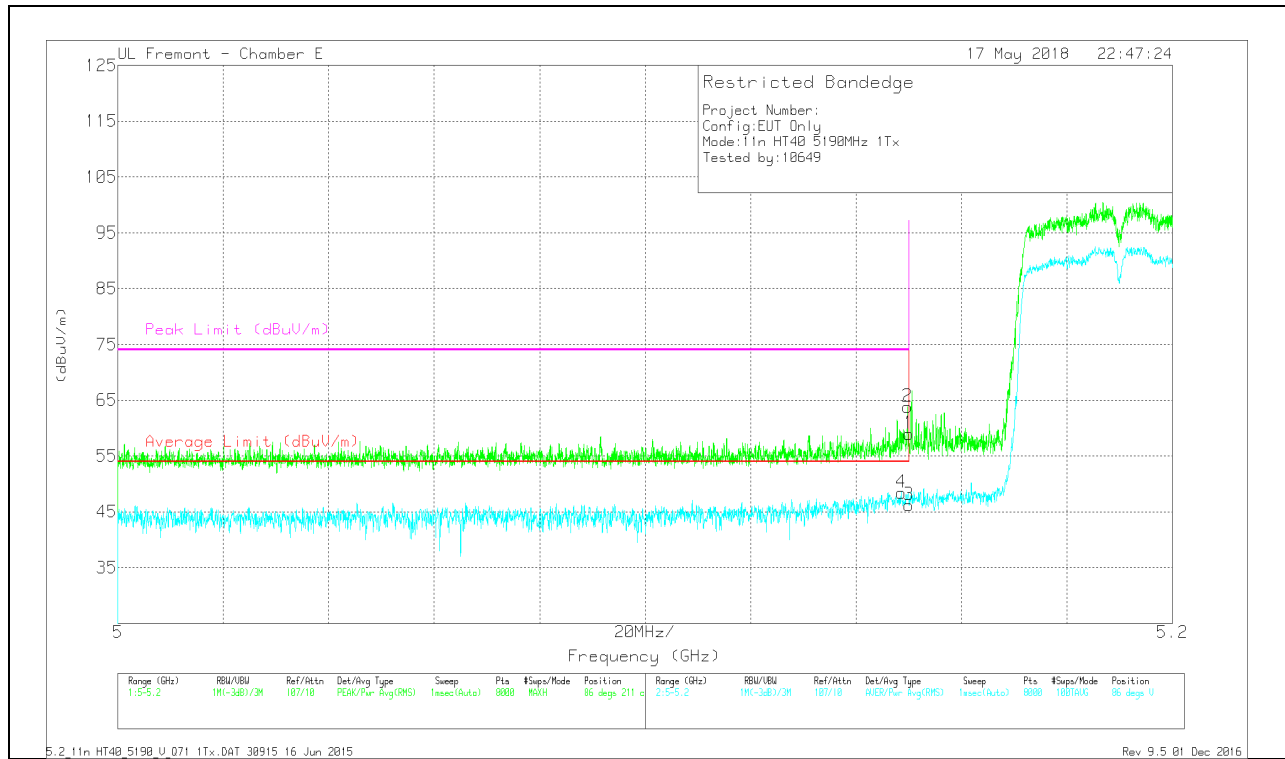
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.147	49.04	Pk	34.7	-19.8	0	63.94	-	-	74	-10.06	54	278	H
4	* 5.149	35.67	RMS	34.8	-19.8	.09	50.76	54	-3.24	-	-	54	278	H
1	* 5.15	44.08	Pk	34.8	-19.8	0	59.08	-	-	74	-14.92	54	278	H
3	* 5.15	34.29	RMS	34.8	-19.8	.09	49.38	54	-4.62	-	-	54	278	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

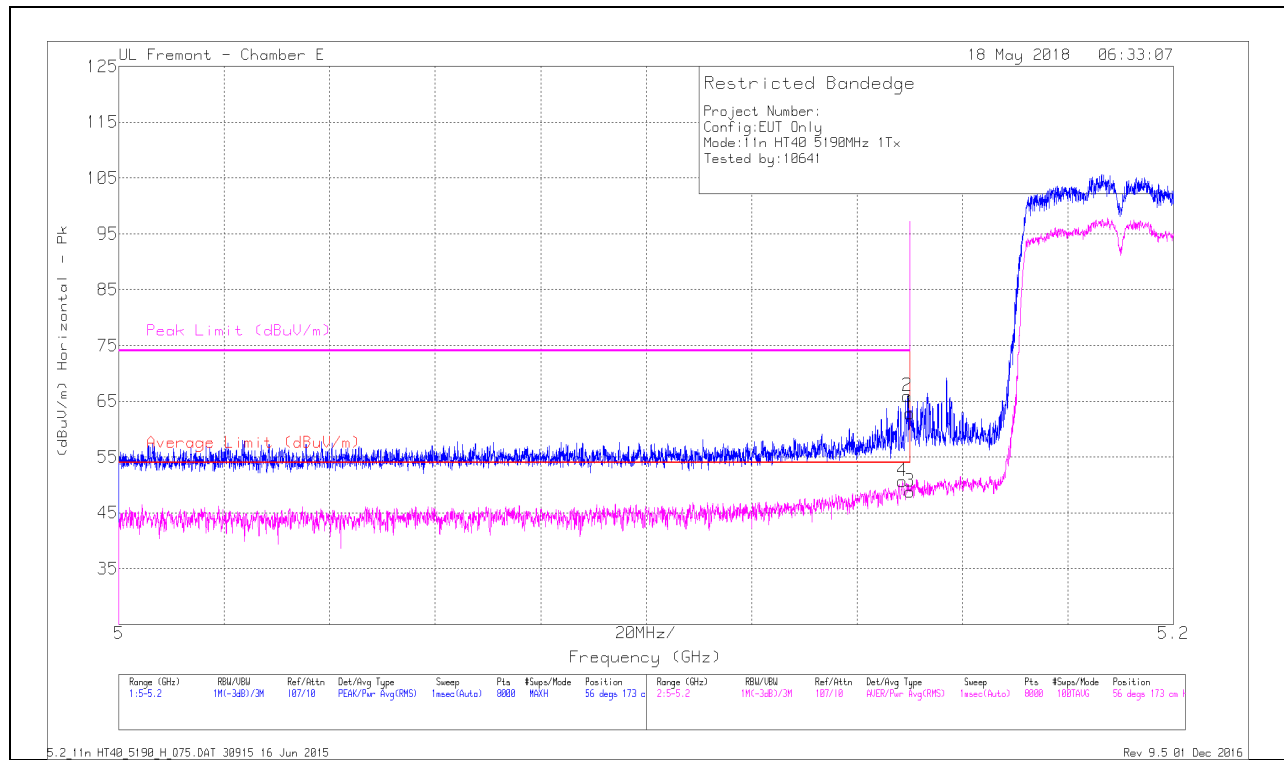


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBim)	Ampl/Cou/Filt/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.149	33.41	RMS	34.8	-19.8	.09	49.5	54	-5.5	-	-	86	211	V
1	* 5.15	43.97	Pk	34.8	-19.8	0	58.97	-	-	74	-15.03	86	211	V
2	* 5.15	48.78	Pk	34.8	-19.8	0	63.78	-	-	74	-10.22	86	211	V
3	* 5.15	31.21	RMS	34.8	-19.8	.09	46.3	54	-7.7	-	-	86	211	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**

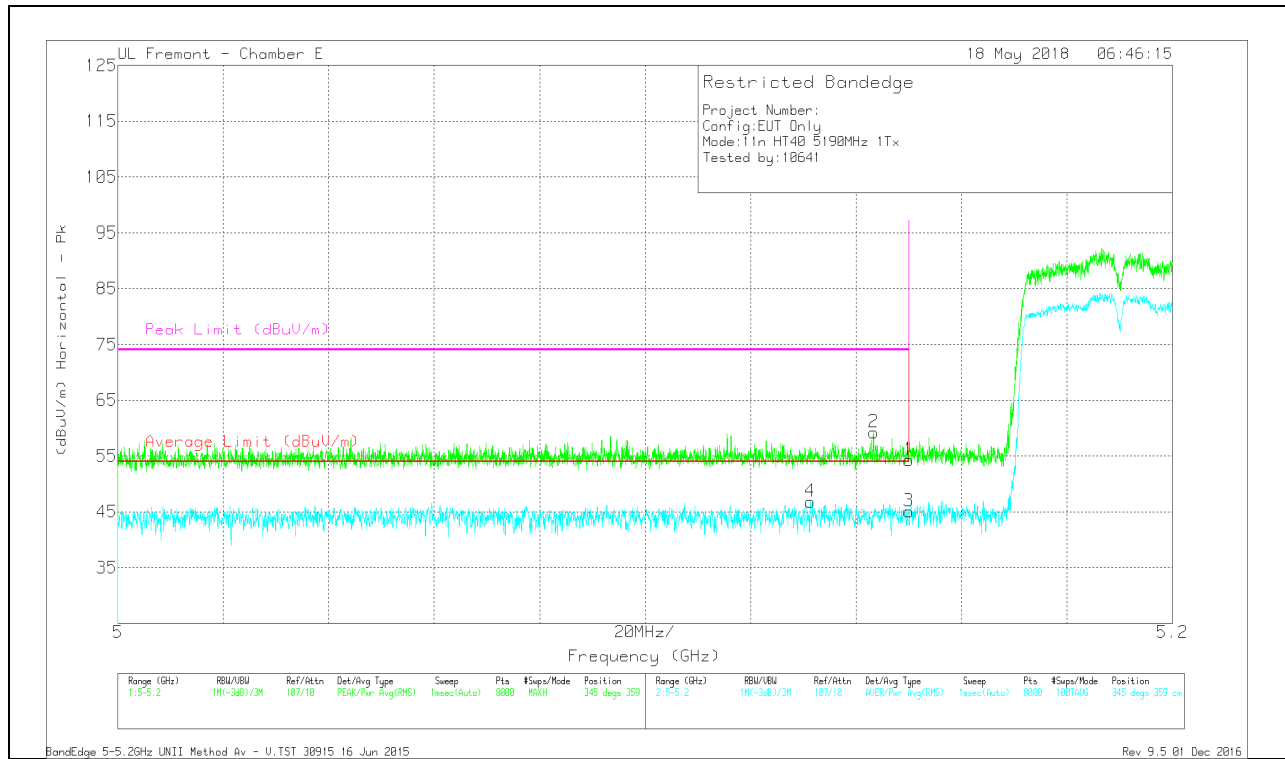
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	47.79	Pk	34.8	-19.8	0	62.79	-	-	74	-11.21	56	173	H
2	* 5.15	50.92	Pk	34.8	-19.8	0	65.92	-	-	74	-8.08	56	173	H
3	* 5.15	33.84	RMS	34.8	-19.8	.09	48.93	54	-5.07	-	-	56	173	H
4	* 5.149	35.62	RMS	34.8	-19.8	.09	50.71	54	-3.29	-	-	56	173	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

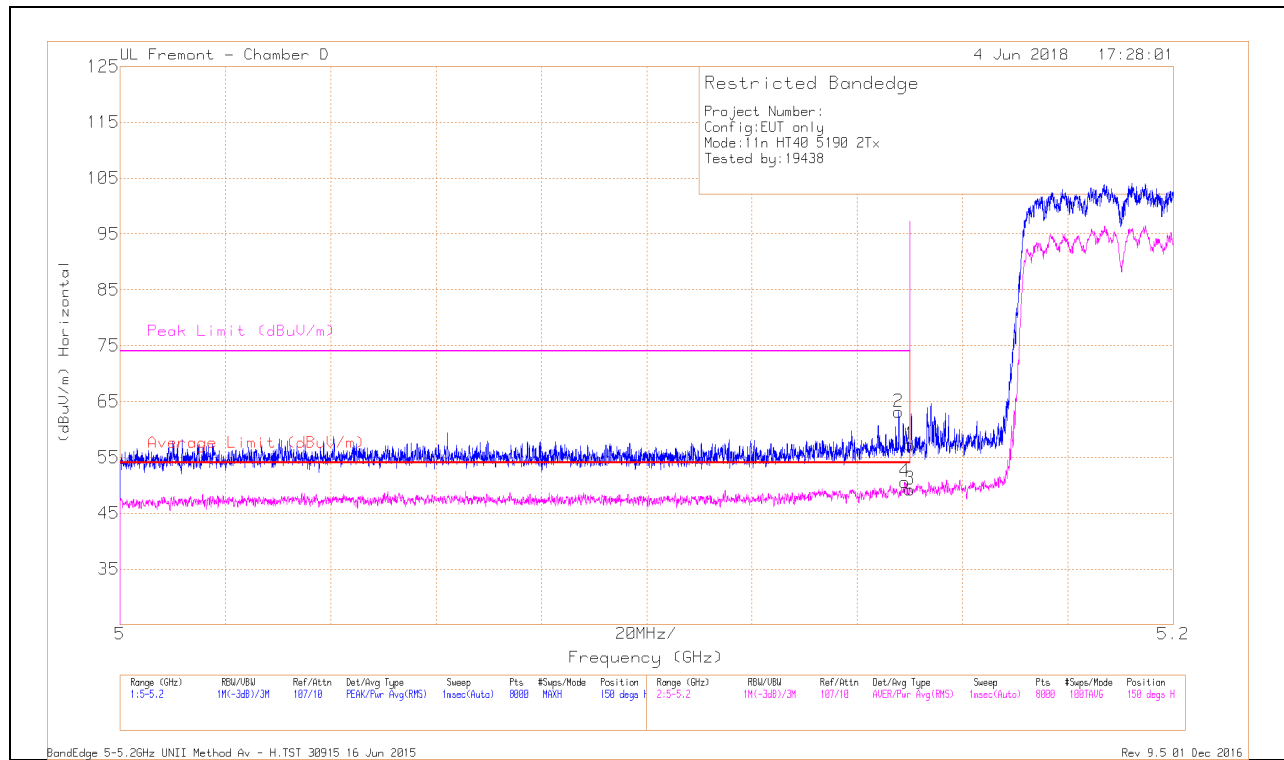


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.31	Pk	34.8	-19.8	0	54.31	-	-	74	-19.69	345	359	V
2	* 5.143	44.35	Pk	34.7	-19.8	0	59.25	-	-	74	-14.75	345	359	V
3	* 5.15	30.04	RMS	34.8	-19.8	.09	45.13	54	-8.87	-	-	345	359	V
4	* 5.131	32	RMS	34.7	-19.9	.09	46.89	54	-7.11	-	-	345	359	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**

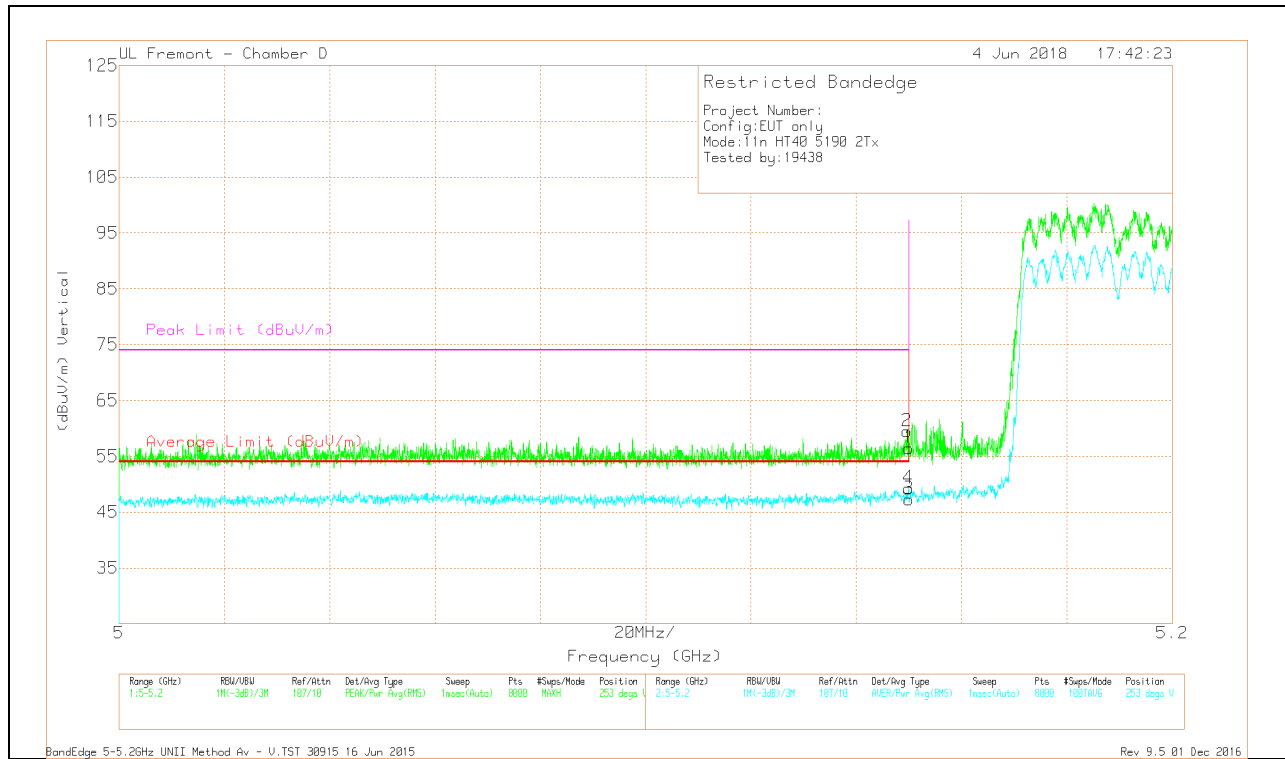
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	46.56	Pk	34.6	-18	0	63.16	-	-	74	-10.84	150	144	H
4	* 5.149	34.01	RMS	34.6	-18	.09	50.7	54	-3.3	-	-	150	144	H
1	* 5.15	40.66	Pk	34.6	-18	0	57.26	-	-	74	-16.74	150	144	H
3	* 5.15	32.66	RMS	34.6	-18	.09	49.35	54	-4.65	-	-	150	144	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 (dBm)	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
1	* 5.15	39.89	Pk	34.6	-18	0	56.49	-	-	74	-17.51	253	397	V
2	* 5.15	42.86	Pk	34.6	-18	0	59.46	-	-	74	-14.54	253	397	V
3	* 5.15	30.73	RMS	34.6	-18	.09	47.42	54	-6.58	-	-	253	397	V
4	* 5.15	32.66	RMS	34.6	-18	.09	49.35	54	-4.65	-	-	253	397	V

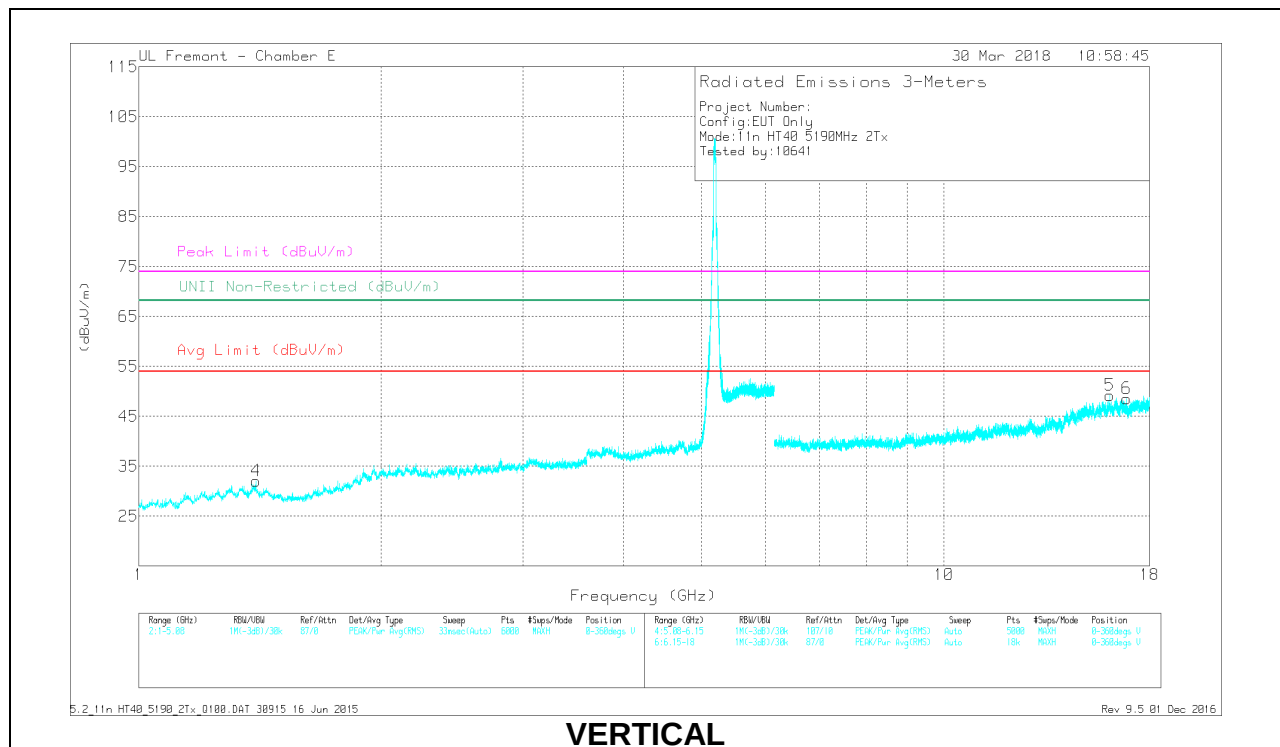
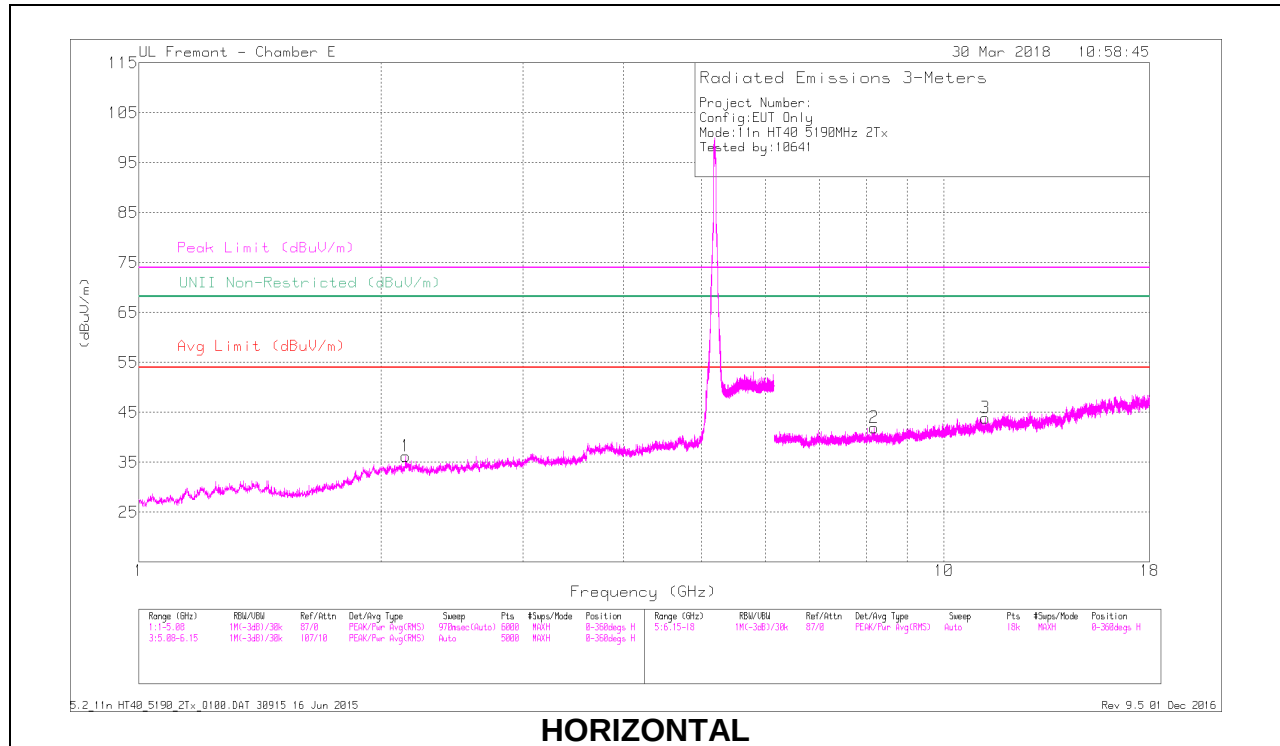
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

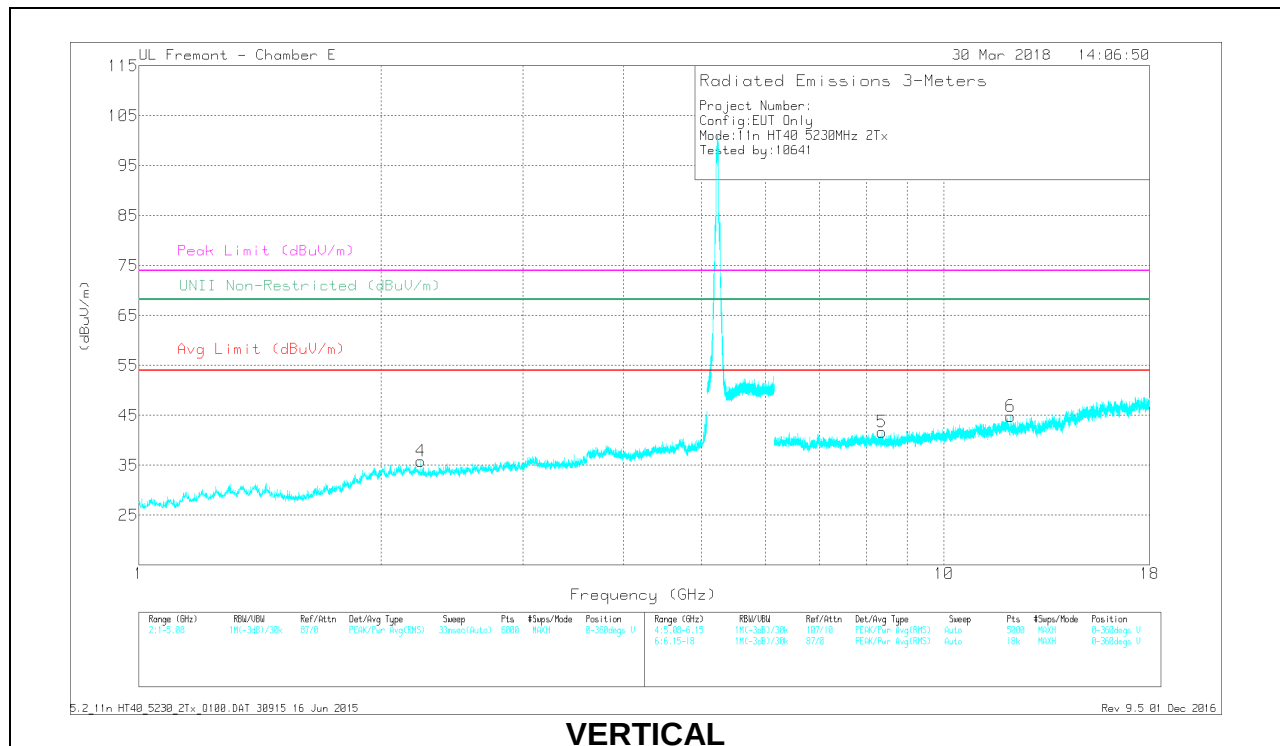
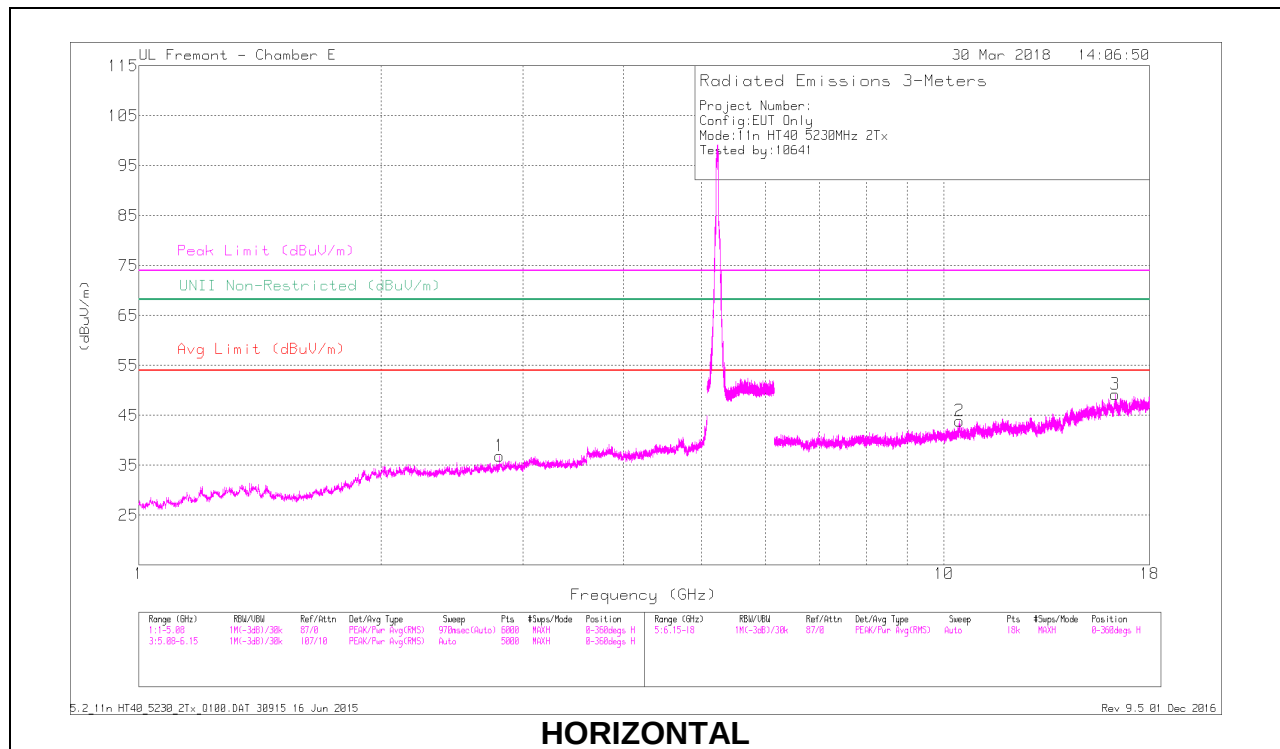
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fil/Fed (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 1.399	44.08	PK-U	28.8	-34.3	0	38.58	-	-	74	-35.42	-	-	15	229	V
	* 1.397	32.29	ADR	28.8	-34.3	.09	26.88	54	-27.12	-	-	-	-	15	229	V
2	* 8.187	38.89	PK-U	36.5	-26	0	49.39	-	-	74	-24.61	-	-	19	174	H
	* 8.186	26	ADR	36.5	-26	.09	36.59	54	-17.41	-	-	-	-	19	174	H
3	* 11.251	35.16	PK-U	38.6	-23.6	0	50.16	-	-	74	-23.84	-	-	142	319	H
	* 11.252	22.07	ADR	38.6	-23.6	.09	37.16	54	-16.84	-	-	-	-	142	319	H
5	* 16.055	35.6	PK-U	41.6	-22.6	0	54.6	-	-	74	-19.4	-	-	183	204	V
	* 16.057	22.96	ADR	41.6	-22.6	.09	42.05	54	-11.95	-	-	-	-	183	204	V
1	2.143	43.5	PK-U	32.1	-32	0	43.6	-	-	-	-	68.2	-24.6	297	147	H
	2.143	30.37	ADR	32.1	-32	.09	30.56	-	-	-	-	-	-	297	147	H
6	16.845	35.12	PK-U	41.7	-21.8	0	55.02	-	-	-	-	68.2	-13.18	222	400	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



RADIATED EMISSIONS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Ch/Hz/Pad (dB)	DC Corr (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)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.807	41.78	PK-U	32.6	-31.3	0	43.08	-	-	74	-30.92	-	-	299	254	H
	* 2.806	29.29	ADR	32.6	-31.3	.09	30.68	54	-23.32	-	-	-	-	299	254	H
4	* 2.238	42.18	PK-U	31.9	-32.6	0	41.48	-	-	74	-32.52	-	-	60	400	V
	* 2.241	30.1	ADR	31.9	-32.5	.09	29.59	54	-24.41	-	-	-	-	60	400	V
5	* 8.374	37.09	PK-U	36.5	-25.5	0	48.09	-	-	74	-25.91	-	-	195	312	V
	* 8.375	24.6	ADR	36.5	-25.5	.09	35.69	54	-18.31	-	-	-	-	195	312	V
6	* 12.105	35.43	PK-U	39.2	-23.6	0	51.03	-	-	74	-22.97	-	-	103	387	V
	* 12.102	22.9	ADR	39.2	-23.6	.09	38.59	54	-15.41	-	-	-	-	103	387	V
2	10.459	37.23	PK-U	37.8	-23.3	0	51.73	-	-	-	-	68.2	-16.47	225	135	H
3	16.31	35.58	PK-U	41.5	-21.1	0	55.98	-	-	-	-	68.2	-12.22	177	238	H

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

PK-U - U-NII: Maximum Peak

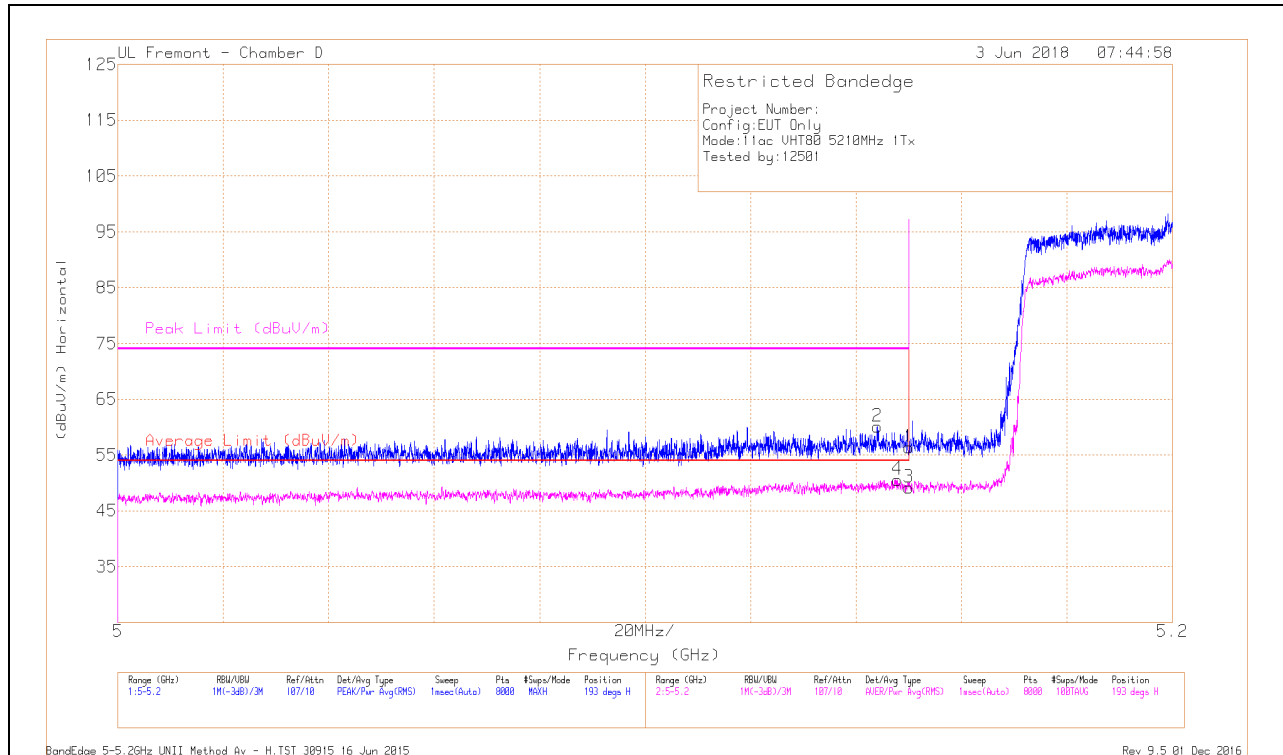
ADR - U-NII AD primary method, RMS average

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

1TX Antenna 6 MODE

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



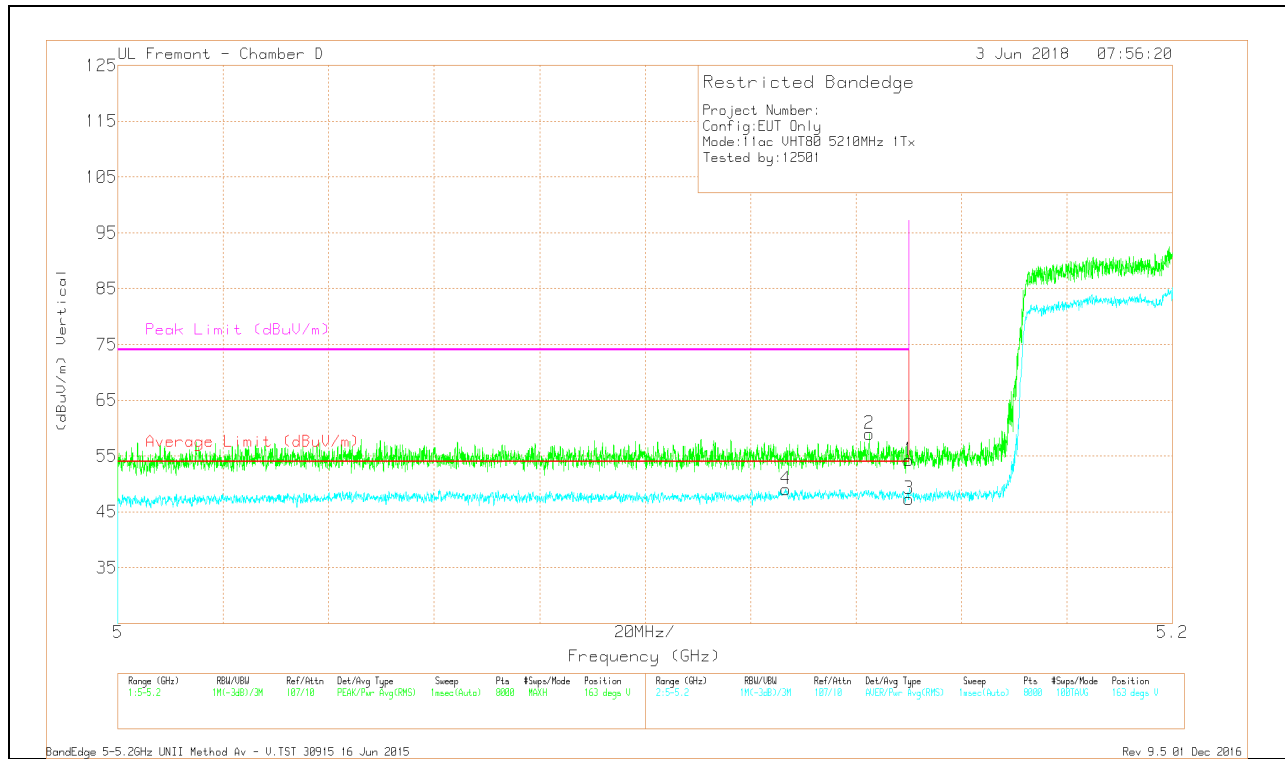
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/ChlFtr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	39.74	Pk	34.6	-18	0	56.34	-	-	74	-17.66	193	101	H
2	* 5.144	43.45	Pk	34.6	-18	0	60.05	-	-	74	-13.95	193	101	H
3	* 5.15	32.34	RMS	34.6	-18	.19	49.13	54	-4.87	-	-	193	101	H
4	* 5.148	33.8	RMS	34.6	-18	.19	50.59	54	-3.41	-	-	193	101	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBim)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.127	32.26	RMS	34.6	-18	-19	49.05	54	-4.95	-	-	163	102	V
2	* 5.143	42.36	Pk	34.6	-18	0	58.96	-	-	74	-15.04	163	102	V
1	* 5.15	37.72	Pk	34.6	-18	0	54.32	-	-	74	-19.68	163	102	V
3	* 5.15	30.48	RMS	34.6	-18	-19	47.27	54	-6.73	-	-	163	102	V

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

Pk - Peak detector

RMS - RMS detection