

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	5510	40.50	-0.80	24.00	11.00
Mid	5550	40.60	-0.80	24.00	11.00
High	5670	40.50	-0.80	24.00	11.00
142	5710	40.60	-0.80	24.00	11.00

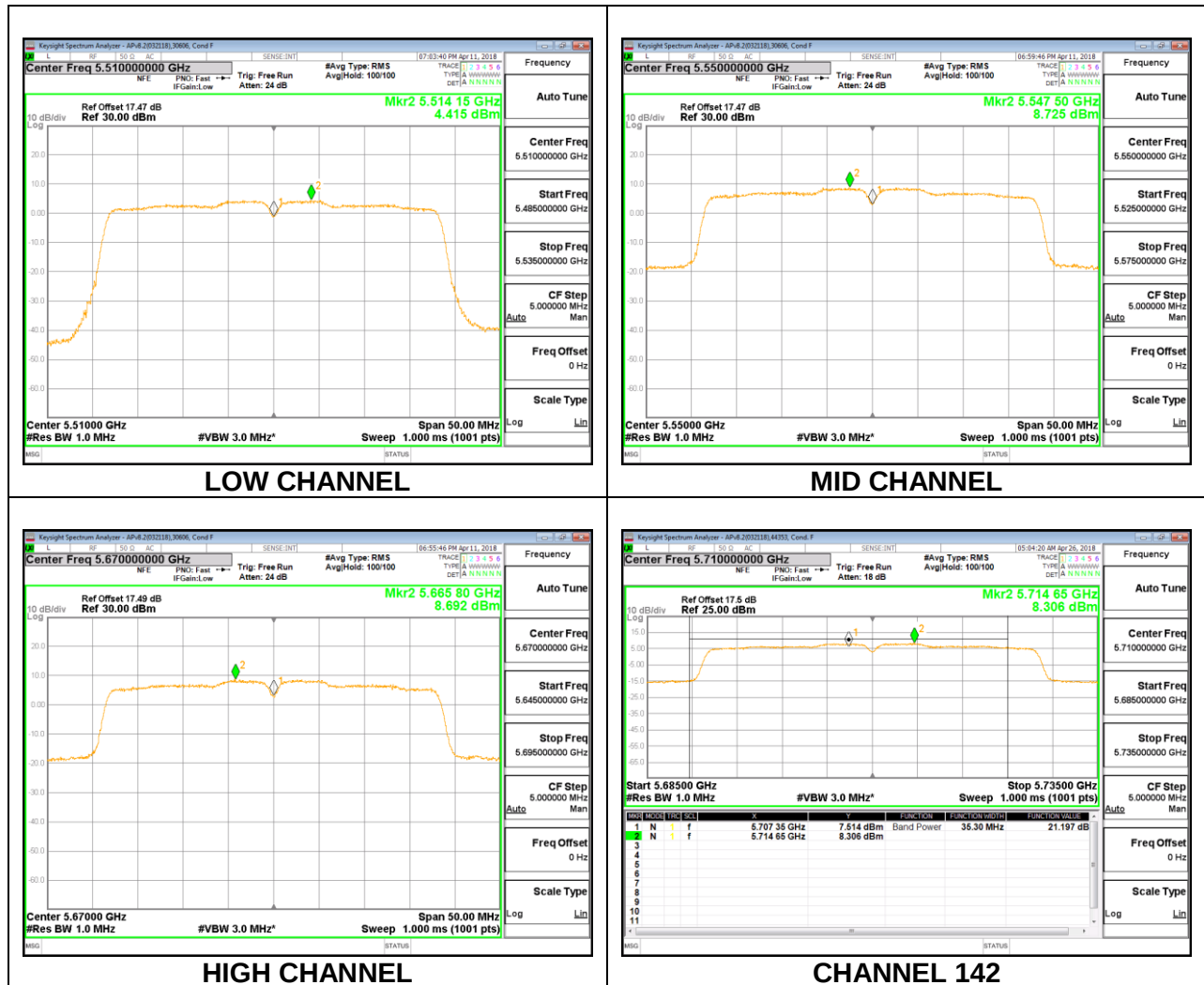
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	17.84	17.84	24.00	-6.16
Mid	5550	21.91	21.91	24.00	-2.09
High	5670	21.86	21.86	24.00	-2.14
142	5710	21.20	21.30	24.00	-2.70

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	5510	4.42	4.52	11.00	-6.49
Mid	5550	8.73	8.83	11.00	-2.18
High	5670	8.69	8.79	11.00	-2.21
142	5710	8.31	8.41	11.00	-2.59



2TX Antenna 6 + Antenna 5 CDD MODE

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	5510	40.00	-1.72	1.22	24.00	11.00
Mid	5550	40.20	-1.72	1.22	24.00	11.00
High	5670	40.10	-1.72	1.22	24.00	11.00
142	5710	40.00	-1.72	1.22	24.00	11.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD
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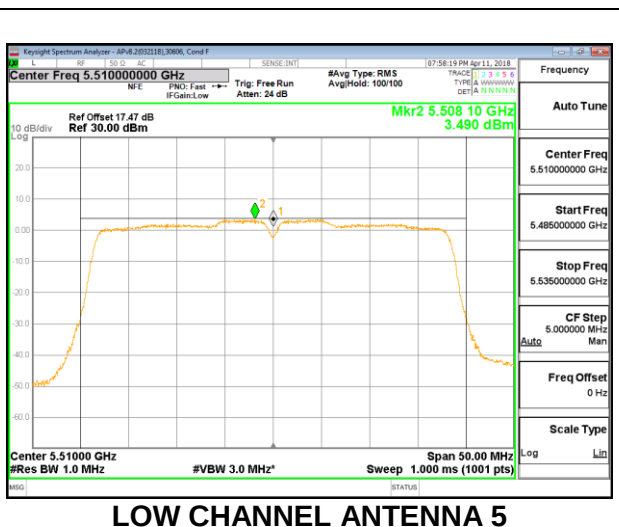
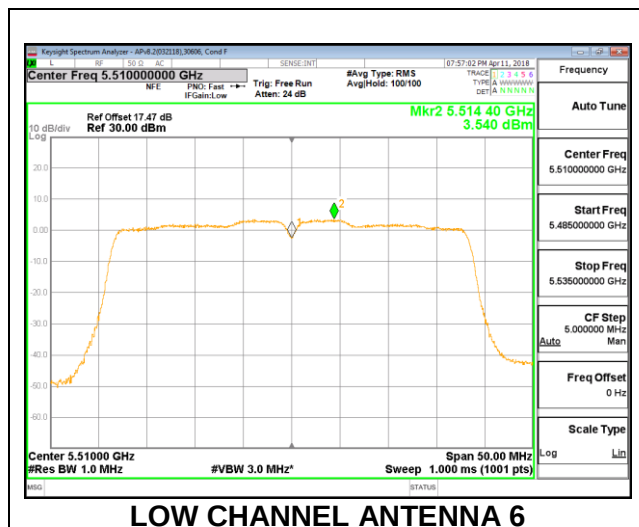
Output Power Results

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	5510	16.92	16.87	19.91	24.00	-4.09
Mid	5550	19.84	19.86	22.86	24.00	-1.14
High	5670	19.90	19.91	22.92	24.00	-1.08
142	5710	19.27	19.28	22.38	24.00	-1.62

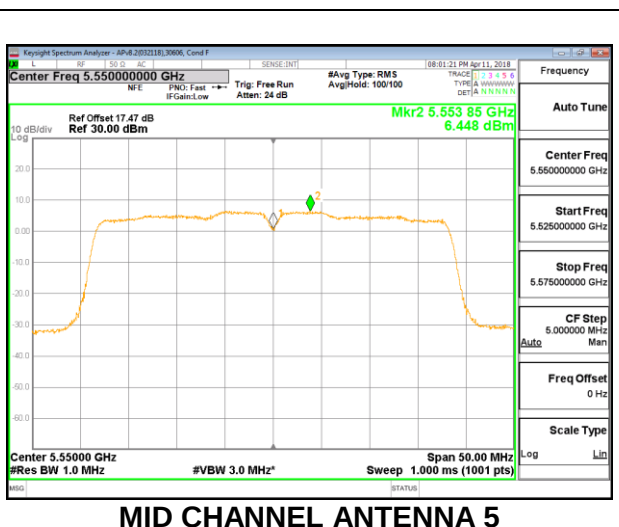
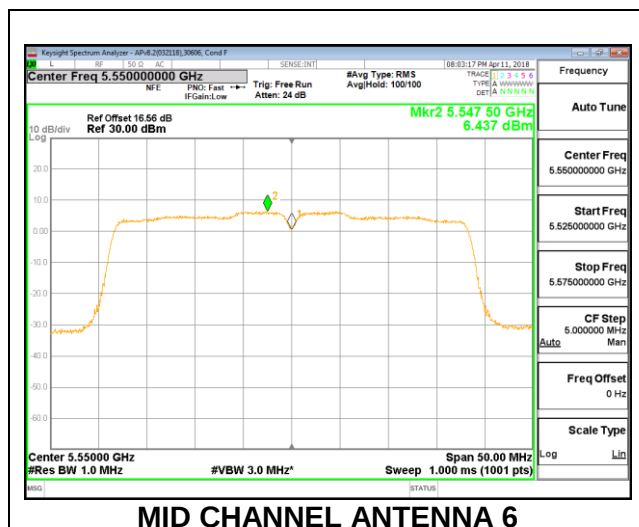
PSD Results

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	5510	3.54	3.49	6.63	11.00	-4.37
Mid	5550	6.44	6.45	9.55	11.00	-1.45
High	5670	6.52	6.50	9.62	11.00	-1.38
142	5710	6.19	6.32	9.37	11.00	-1.63

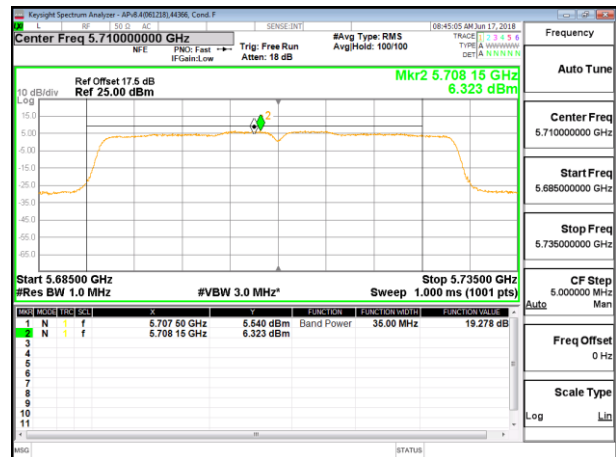
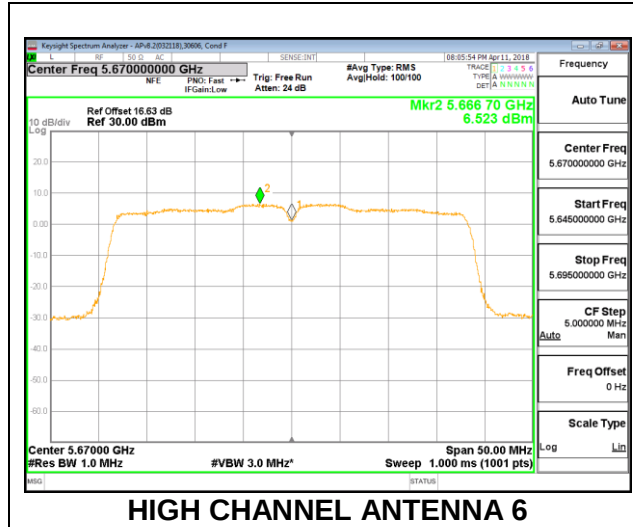
LOW CHANNEL



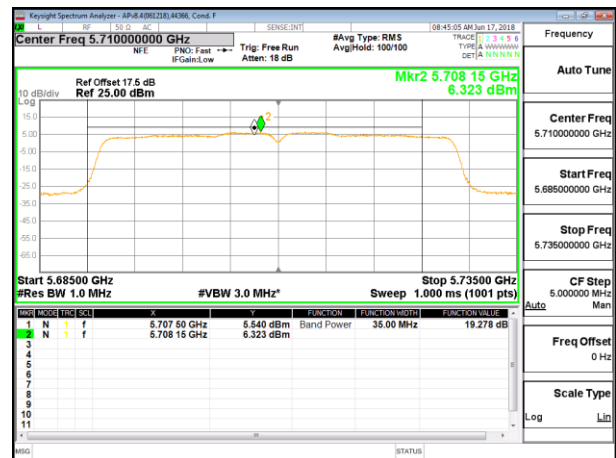
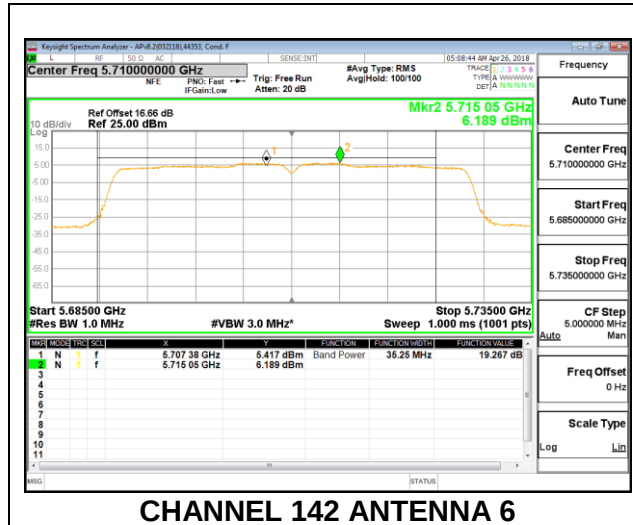
MID CHANNEL



HIGH CHANNEL



CHANNEL 142



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	82.40	-2.90	24.00	11.00
High	5610	82.60	-2.90	24.00	11.00
138	5690	82.40	-2.90	24.00	11.00

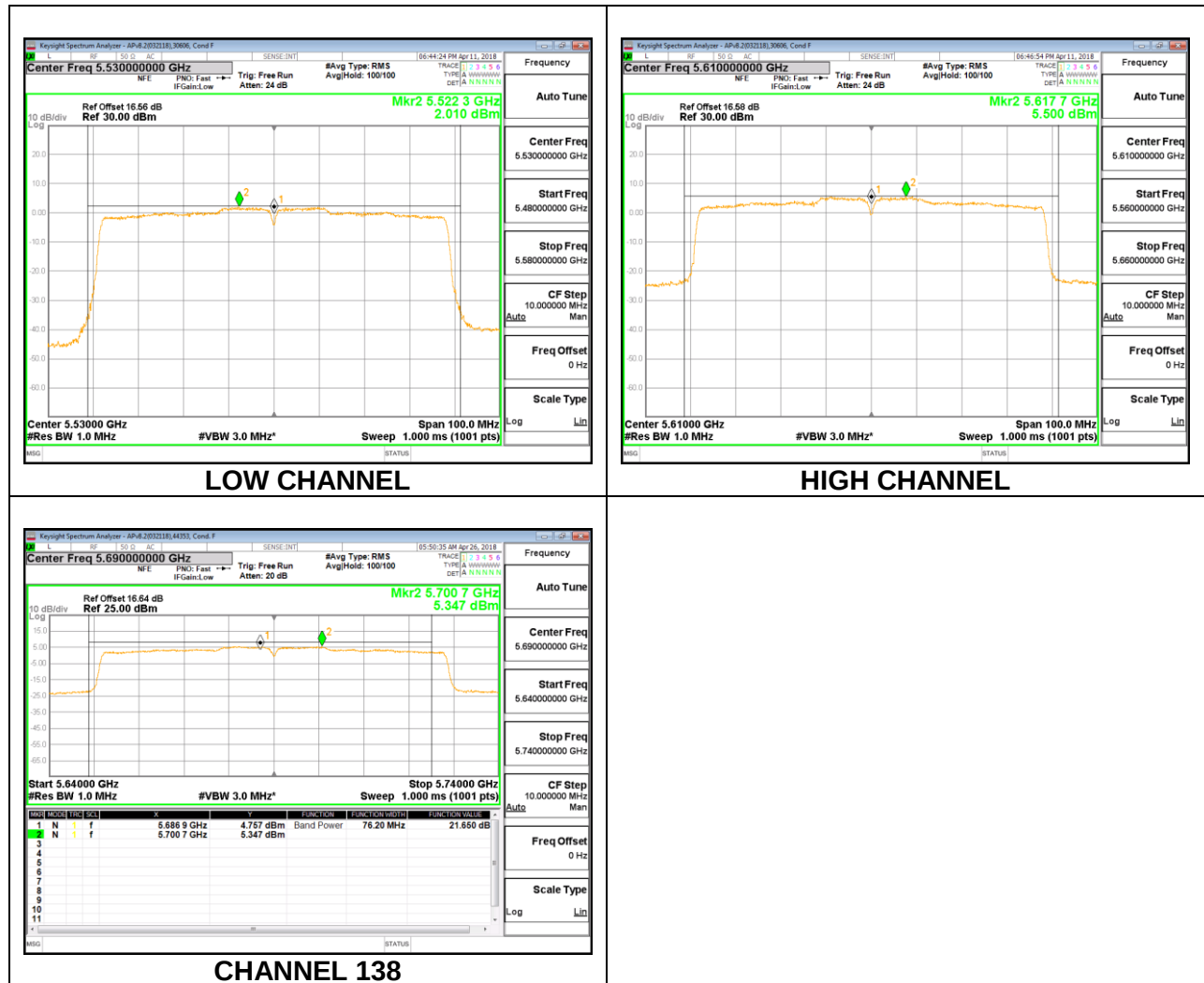
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.43	17.43	24.00	-6.57
High	5610	21.89	21.89	24.00	-2.11
138	5690	21.65	21.84	24.00	-2.16

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	2.01	2.20	11.00	-8.80
High	5610	5.50	5.69	11.00	-5.31
138	5690	5.35	5.54	11.00	-5.46



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	82.80	-0.80	24.00	11.00
138	5690	82.40	-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	17.38	17.38	24.00	-6.62
High	5610	21.84	21.84	24.00	-2.16
138	5690	21.76	21.95	24.00	-2.05

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	2.04	2.23	11.00	-8.77
High	5610	5.47	5.66	11.00	-5.34
138	5690	5.57	5.76	11.00	-5.24



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	82.20	-1.72	1.22	24.00	11.00
High	5610	82.40	-1.72	1.22	24.00	11.00
138	5690	82.20	-1.72	1.22	24.00	11.00

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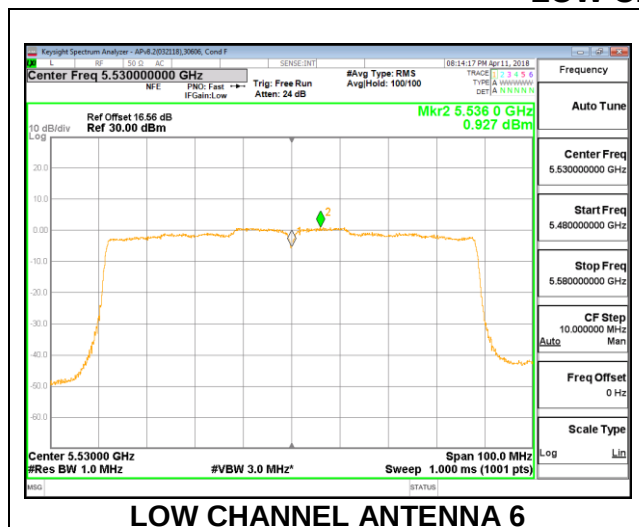
Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	16.37	16.32	19.36	24.00	-4.64
High	5610	19.91	19.88	22.91	24.00	-1.09
138	5690	19.65	19.29	22.68	24.00	-1.32

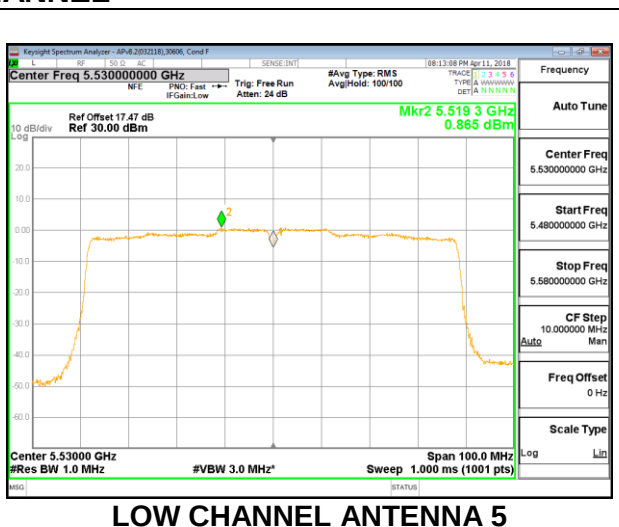
PSD Results

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	0.93	0.87	4.10	11.00	-6.90
High	5610	5.45	5.46	8.65	11.00	-2.35
138	5690	3.37	2.98	6.38	11.00	-4.62

LOW CHANNEL

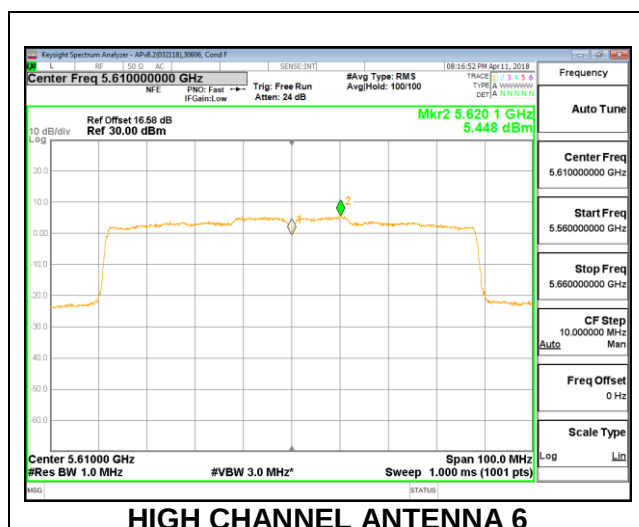


LOW CHANNEL ANTENNA 6

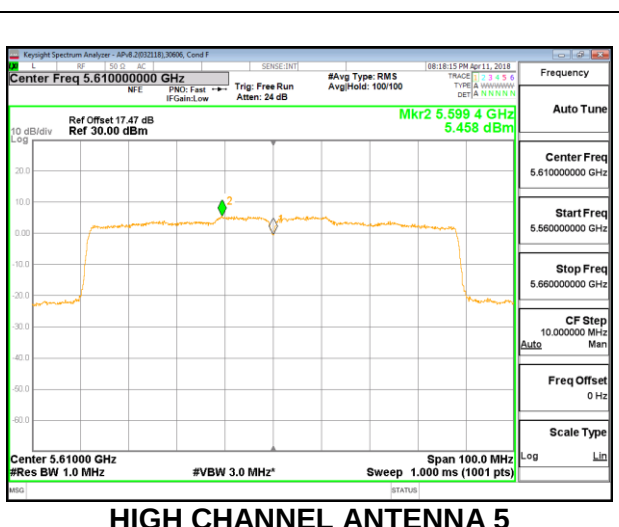


LOW CHANNEL ANTENNA 5

HIGH CHANNEL

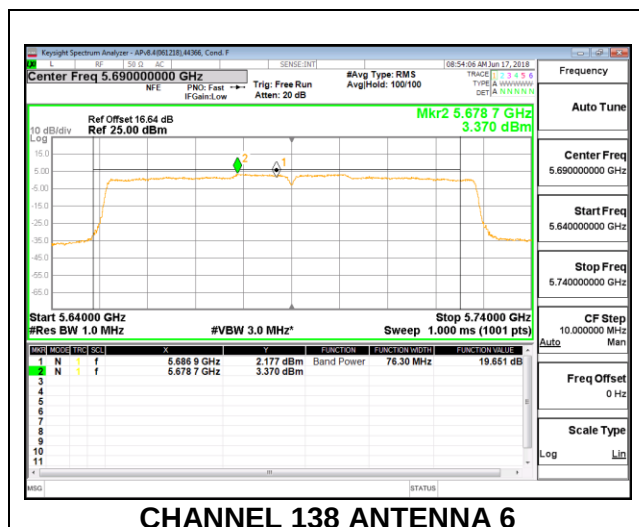


HIGH CHANNEL ANTENNA 6

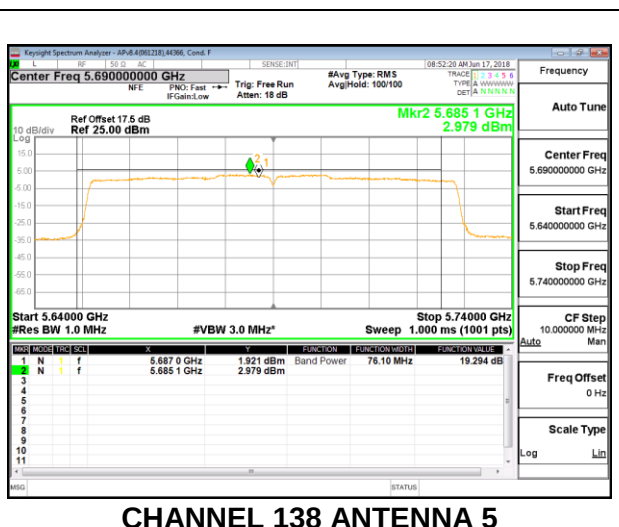


HIGH CHANNEL ANTENNA 5

CHANNEL 138



CHANNEL 138 ANTENNA 6



CHANNEL 138 ANTENNA 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

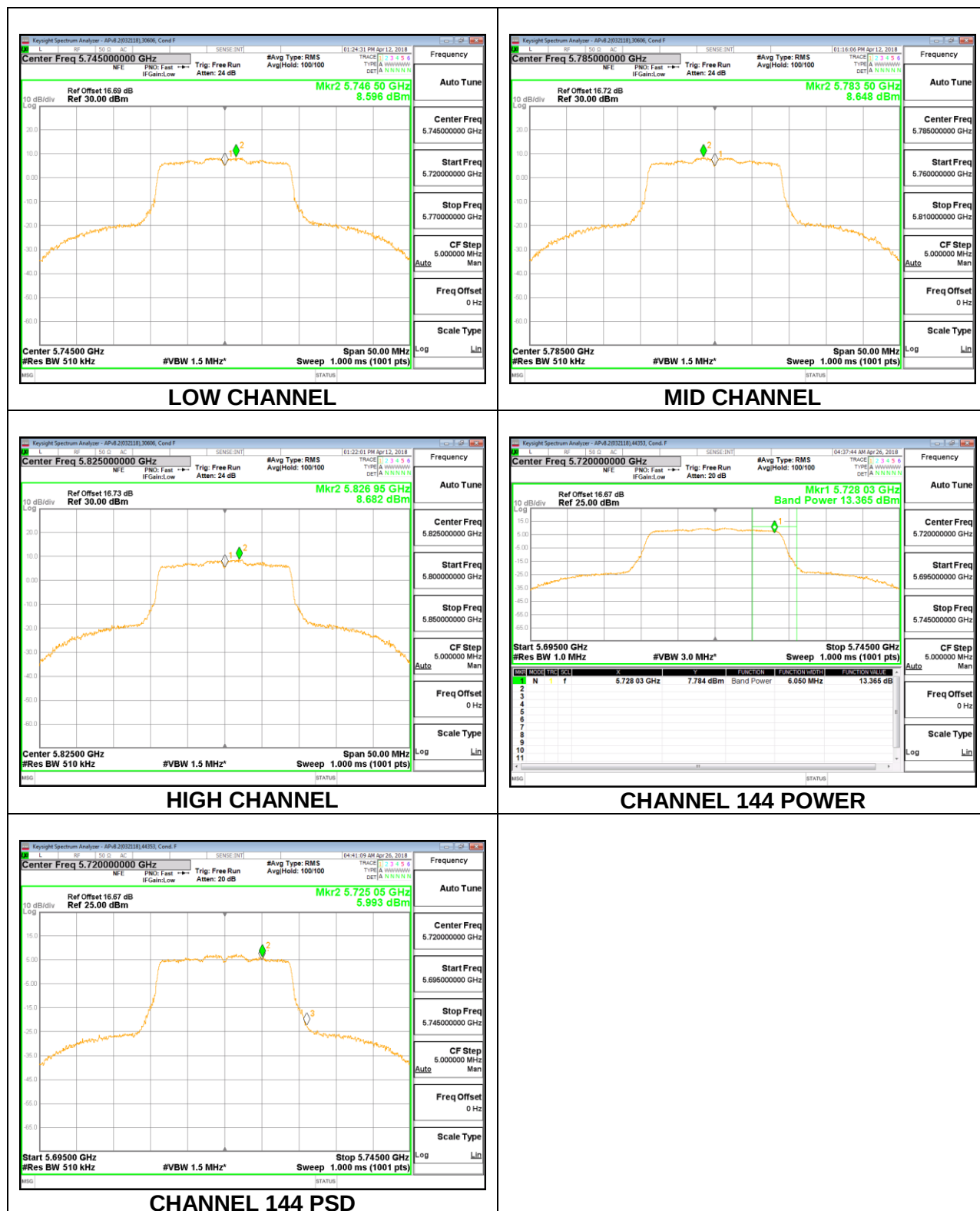
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	22.33	22.33	30.00	-7.67
Mid	5785	22.38	22.38	30.00	-7.62
High	5825	22.42	22.42	30.00	-7.58
144	5720	13.37	13.37	30.00	-16.64

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	8.60	8.60	30.00	-21.40
Mid	5785	8.65	8.65	30.00	-21.35
High	5825	8.68	8.68	30.00	-21.32
144	5720	5.99	5.99	30.00	-24.01



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

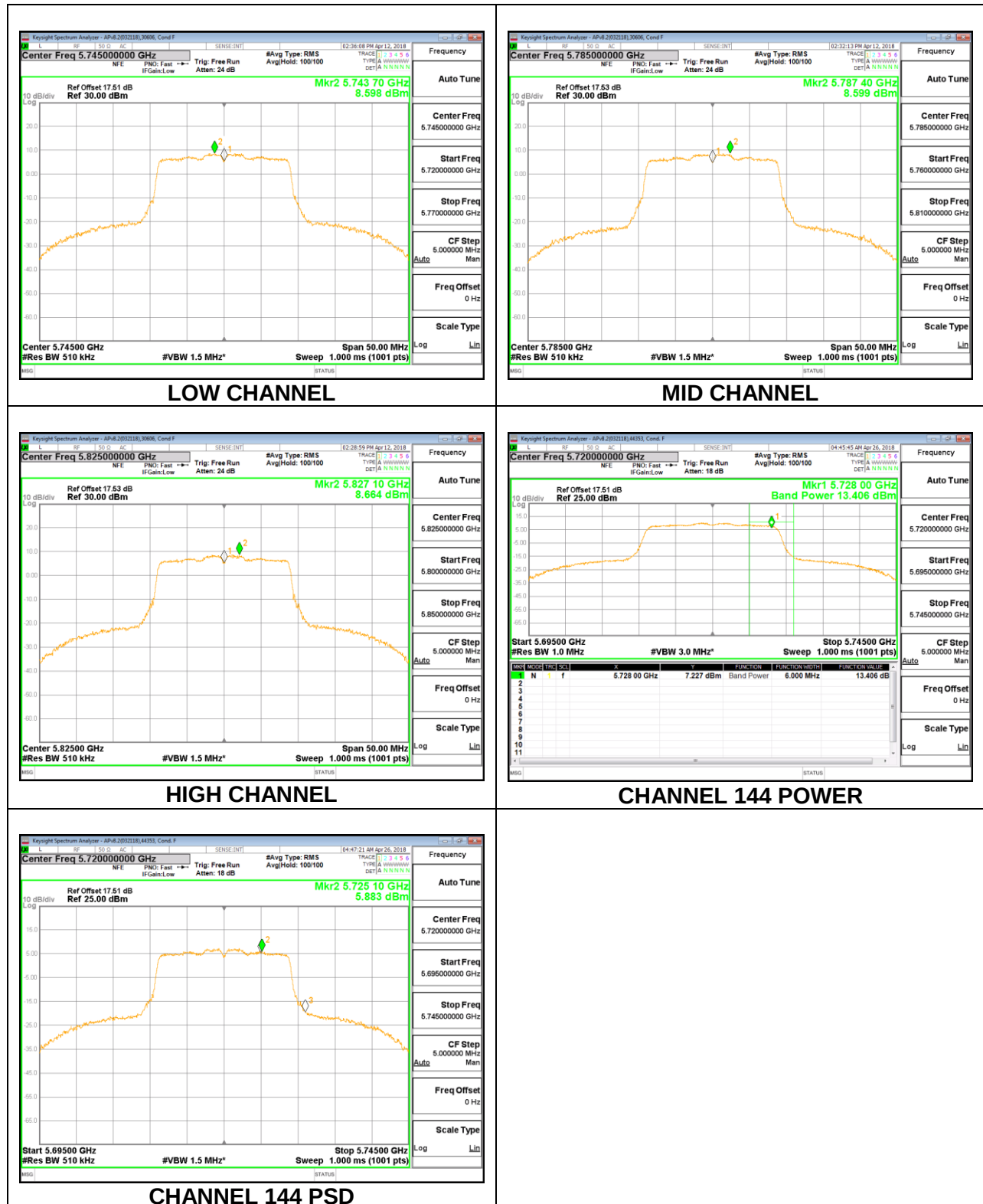
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	22.33	22.33	30.00	-7.67
Mid	5785	22.36	22.36	30.00	-7.64
High	5825	22.41	22.41	30.00	-7.59
144	5720	13.41	13.41	30.00	-16.59

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	8.60	8.60	30.00	-21.40
Mid	5785	8.60	8.60	30.00	-21.40
High	5825	8.66	8.66	30.00	-21.34
144	5720	5.88	5.88	30.00	-24.12



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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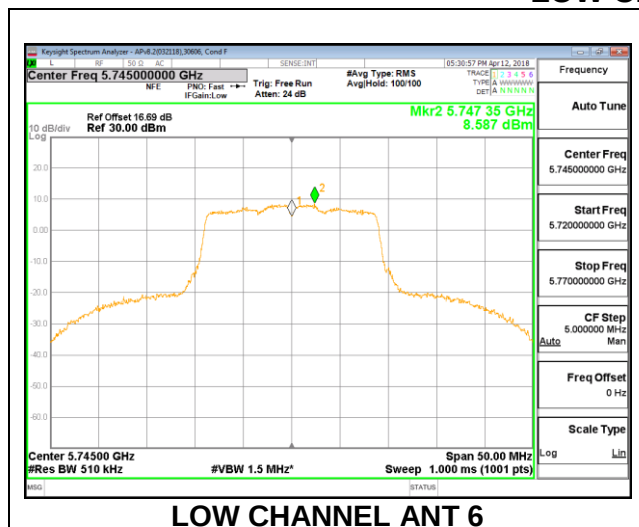
Output Power Results

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	22.37	22.41	25.40	30.00	-4.60
Mid	5785	22.35	22.42	25.40	30.00	-4.60
High	5825	22.40	22.37	25.40	30.00	-4.60
144	5720	10.45	10.27	13.37	30.00	-16.63

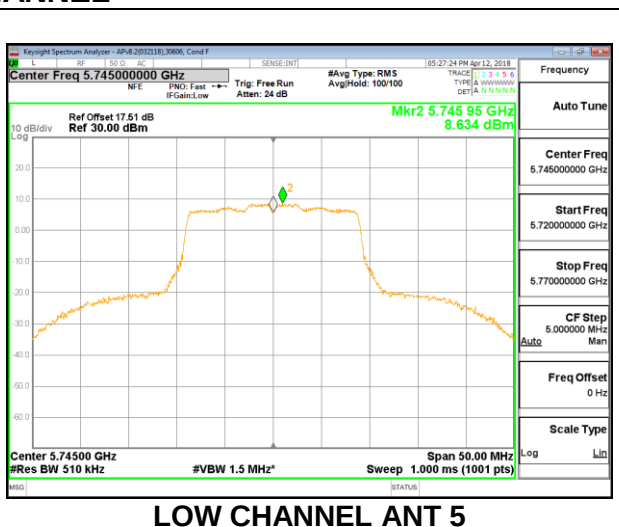
PSD Results

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	8.59	8.63	11.62	30.00	-18.38
Mid	5785	8.62	8.64	11.64	30.00	-18.36
High	5825	8.67	8.64	11.67	30.00	-18.33
144	5720	2.91	2.70	5.82	30.00	-24.18

LOW CHANNEL

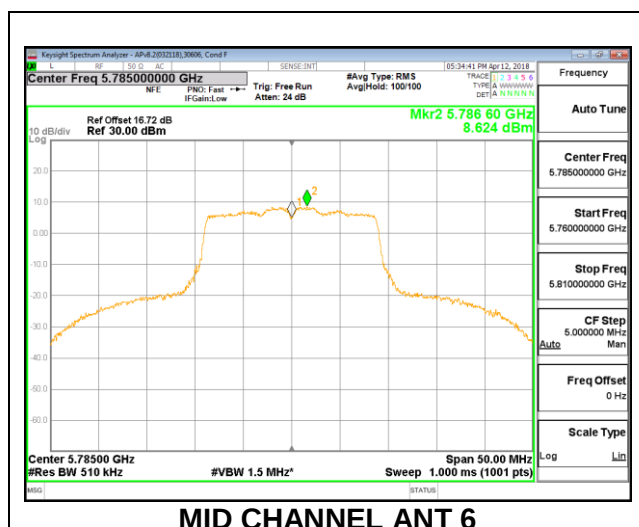


LOW CHANNEL ANT 6

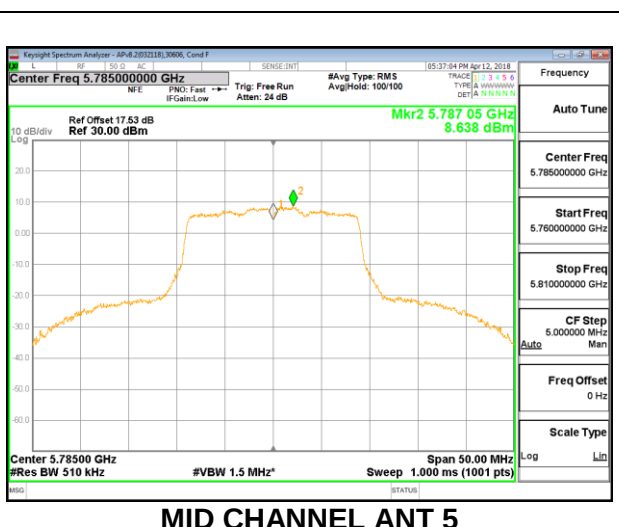


LOW CHANNEL ANT 5

MID CHANNEL

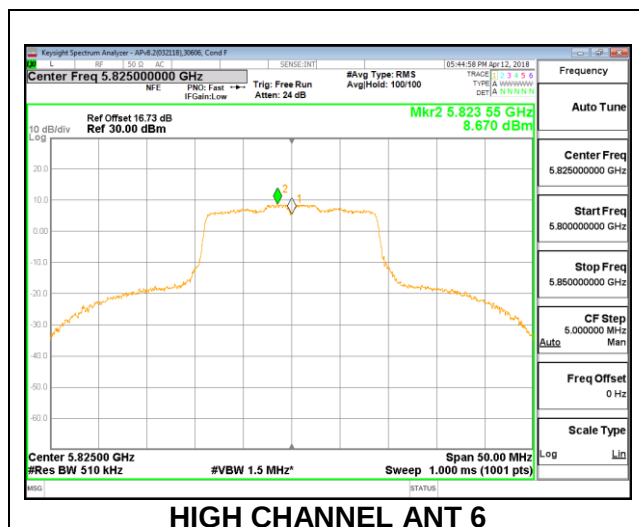


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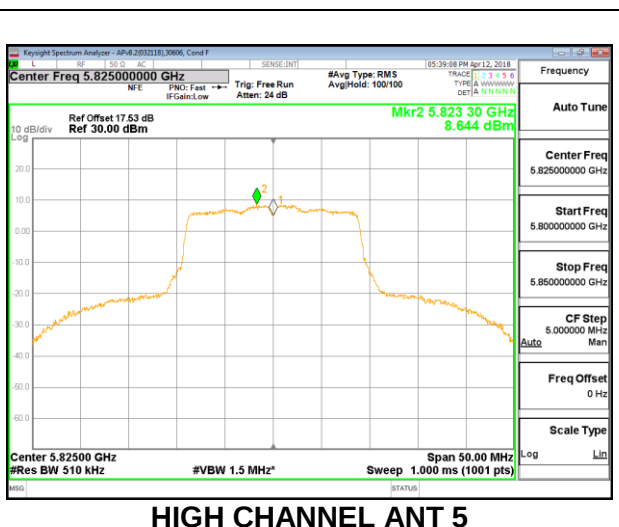


MID CHANNEL ANT 5

HIGH CHANNEL

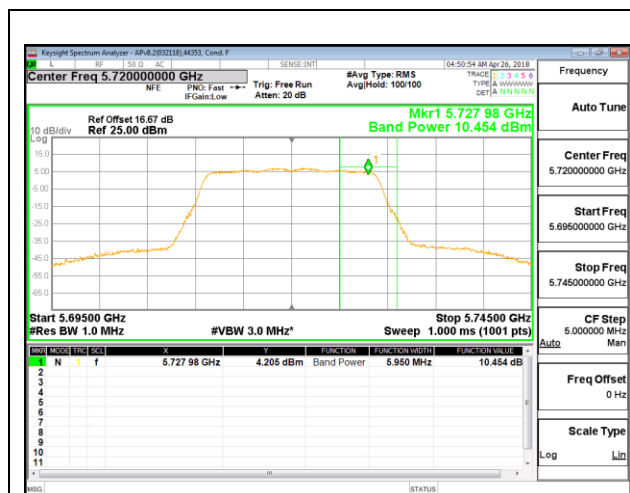


HIGH CHANNEL ANT 6



HIGH CHANNEL ANT 5

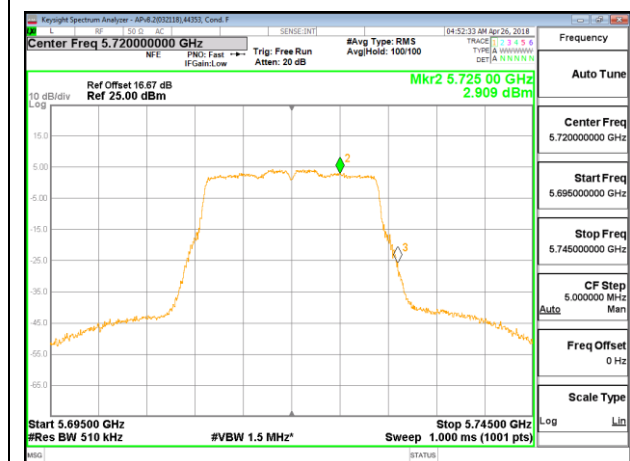
CHANNEL 144



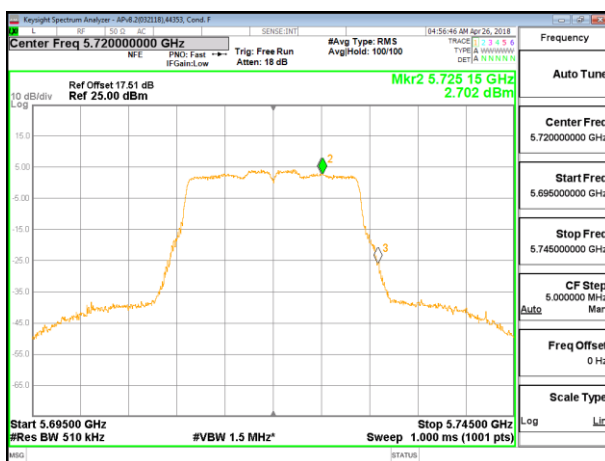
CHANNEL 144 ANT 6 POWER



CHANNEL 144 ANT 5 POWER



CHANNEL 144 ANT 6 PSD



CHANNEL 144 ANT 5 PSD

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

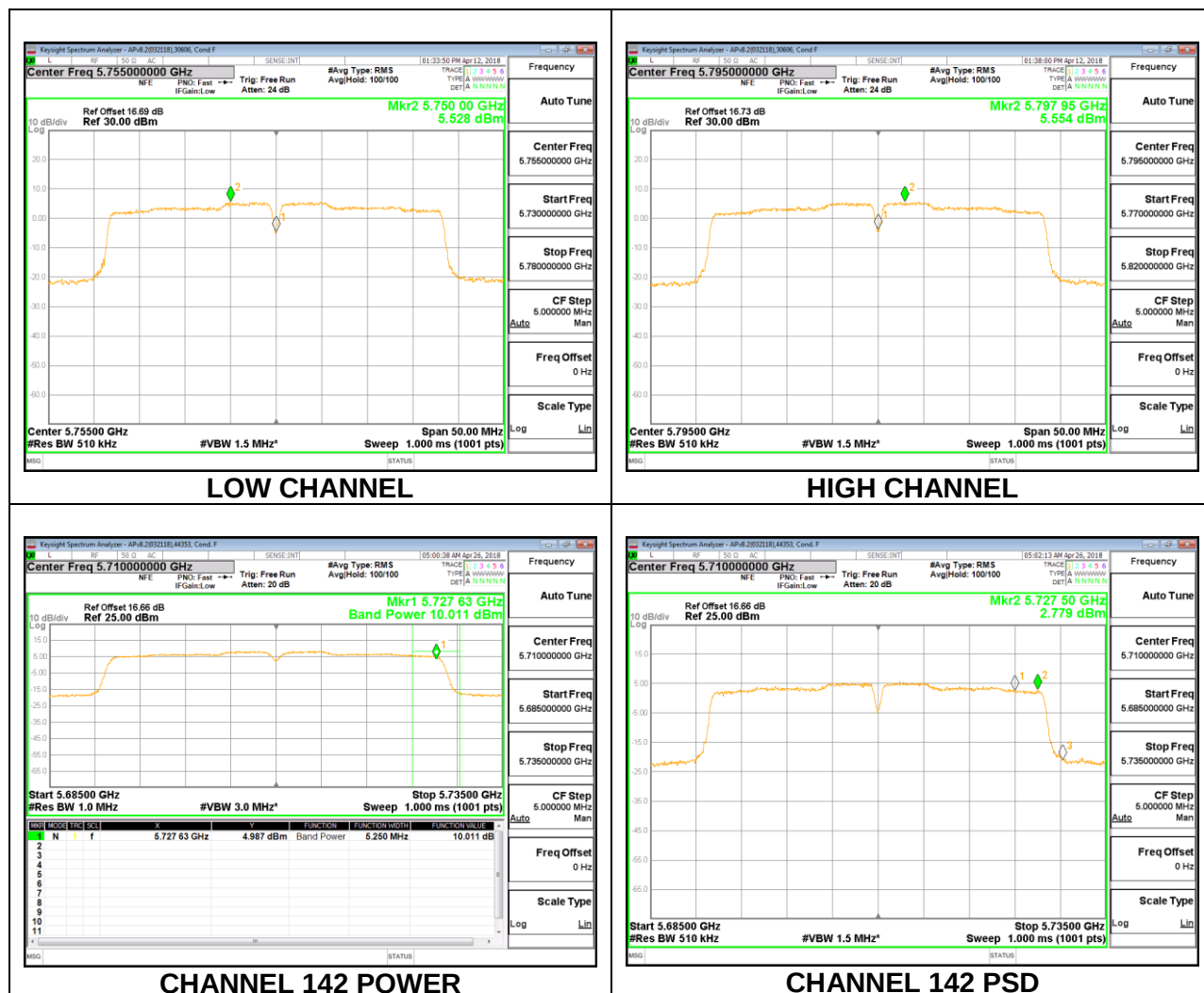
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	21.84	21.84	30.00	-8.16
High	5795	21.93	21.93	30.00	-8.07
142	5710	10.01	10.11	30.00	-19.89

PSD Results

Channel	Frequency (MHz)	ANT 6 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	5.53	5.63	30.00	-24.37
High	5795	5.55	5.65	30.00	-24.35
142	5710	2.78	2.88	30.00	-27.12



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

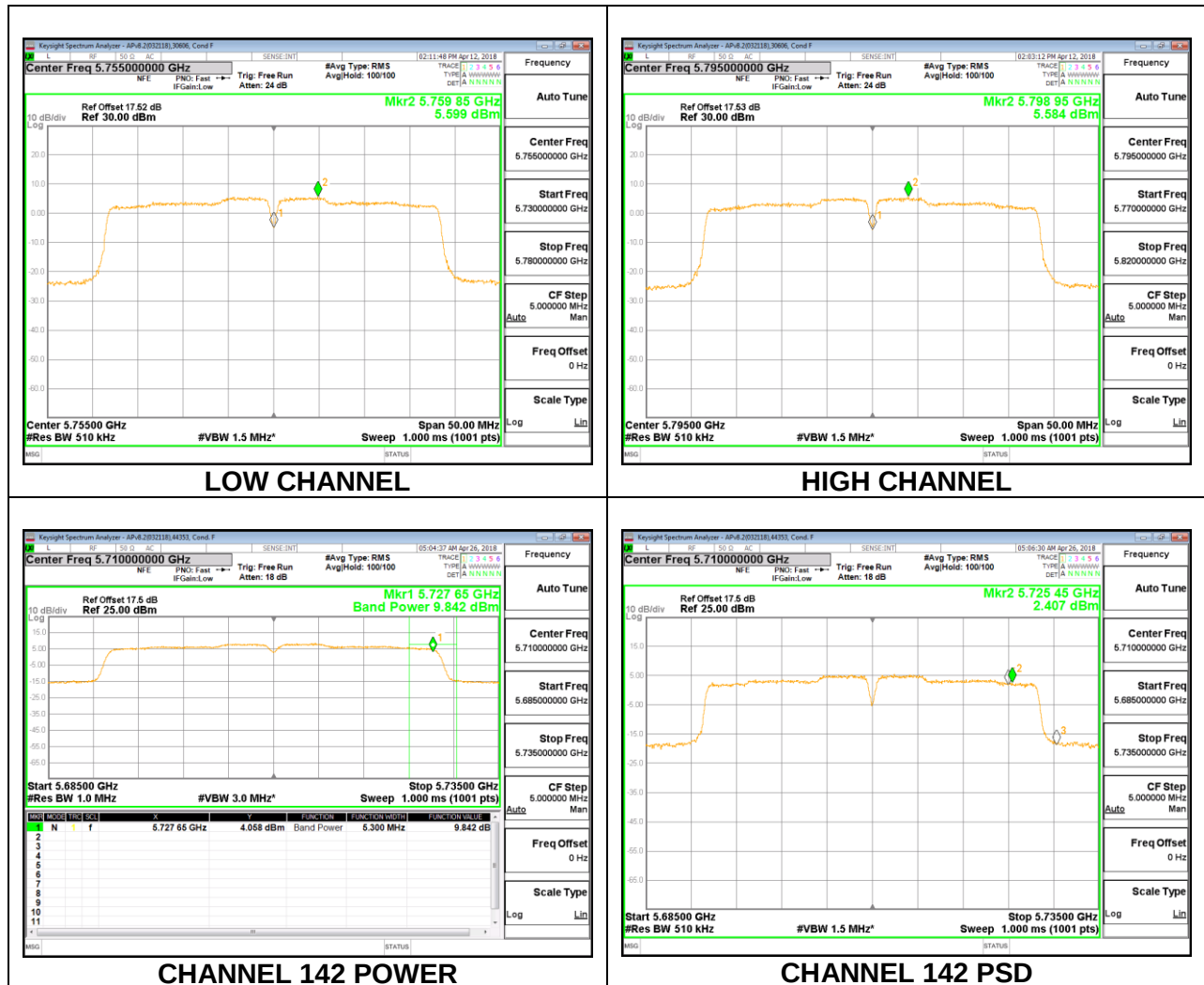
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch142) & PSD
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Output Power Results

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	21.87	21.87	30.00	-8.13
142	5710	9.84	9.94	30.00	-20.06

PSD Results

Channel	Frequency (MHz)	ANT 5 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	5.60	5.70	30.00	-24.30
High	5795	5.58	5.68	30.00	-24.32
142	5710	2.41	2.51	30.00	-27.49



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)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD
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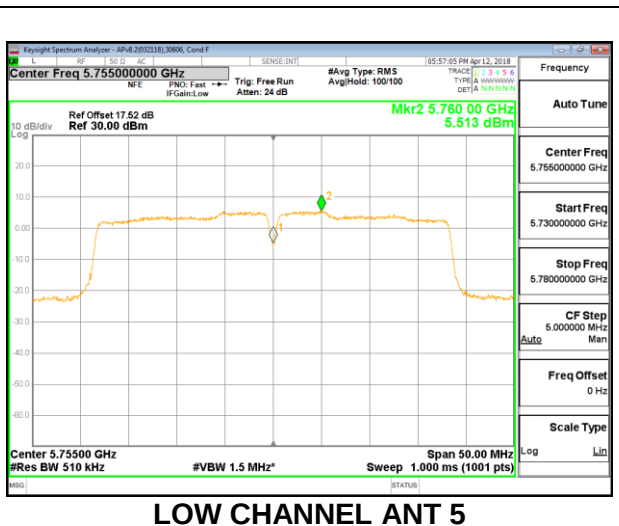
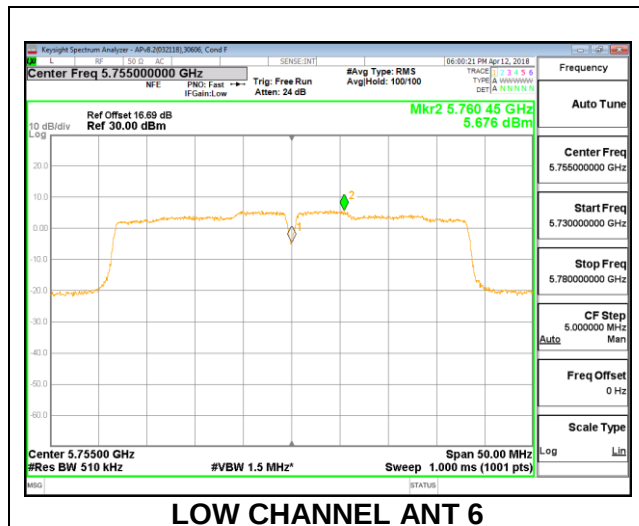
Output Power Results

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	21.89	21.78	24.85	30.00	-5.15
High	5795	21.86	21.80	24.84	30.00	-5.16
142	5710	7.96	8.01	11.09	30.00	-18.91

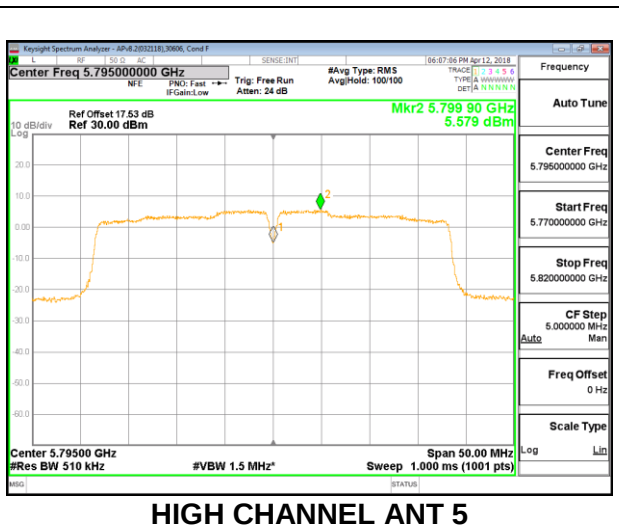
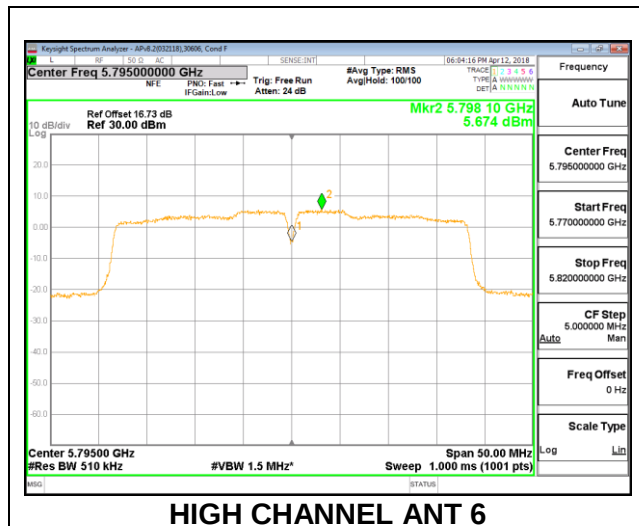
PSD Results

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	5.68	5.51	8.71	30.00	-21.29
High	5795	5.67	5.58	8.74	30.00	-21.26
142	5710	0.86	0.70	3.89	30.00	-26.11

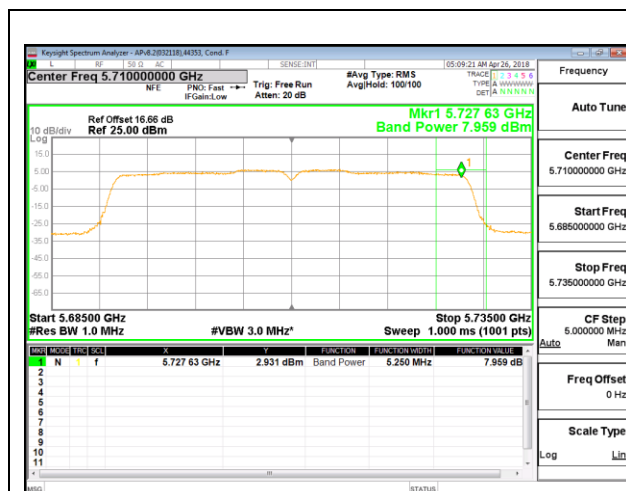
LOW CHANNEL



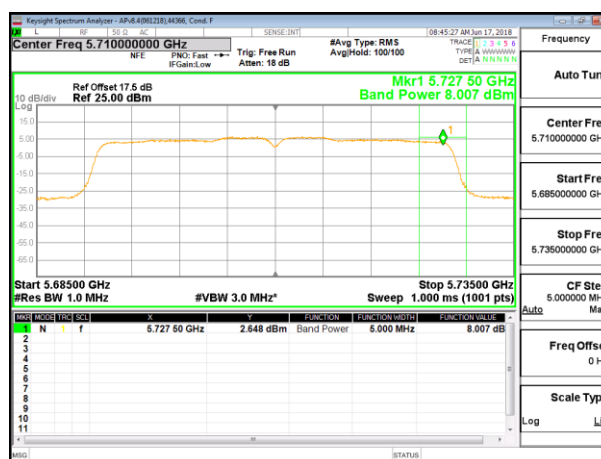
HIGH CHANNEL



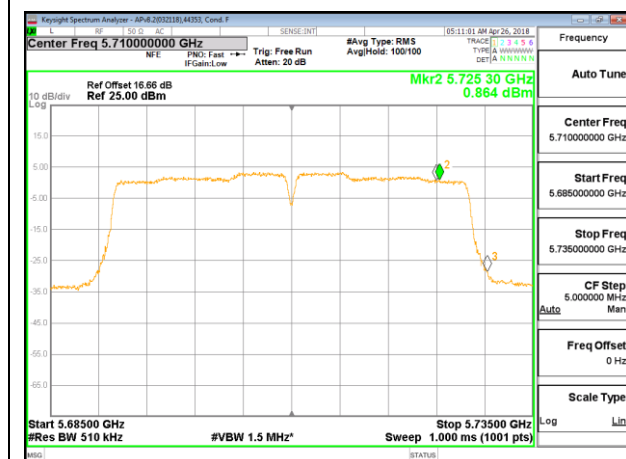
CHANNEL 142



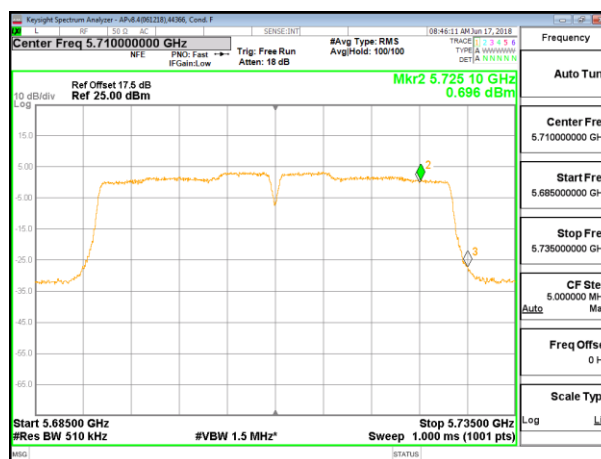
CHANNEL 142 ANT 6 POWER



CHANNEL 142 ANT 5 POWER



CHANNEL 142 ANT 6 PSD



CHANNEL 142 ANT 5 PSD

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

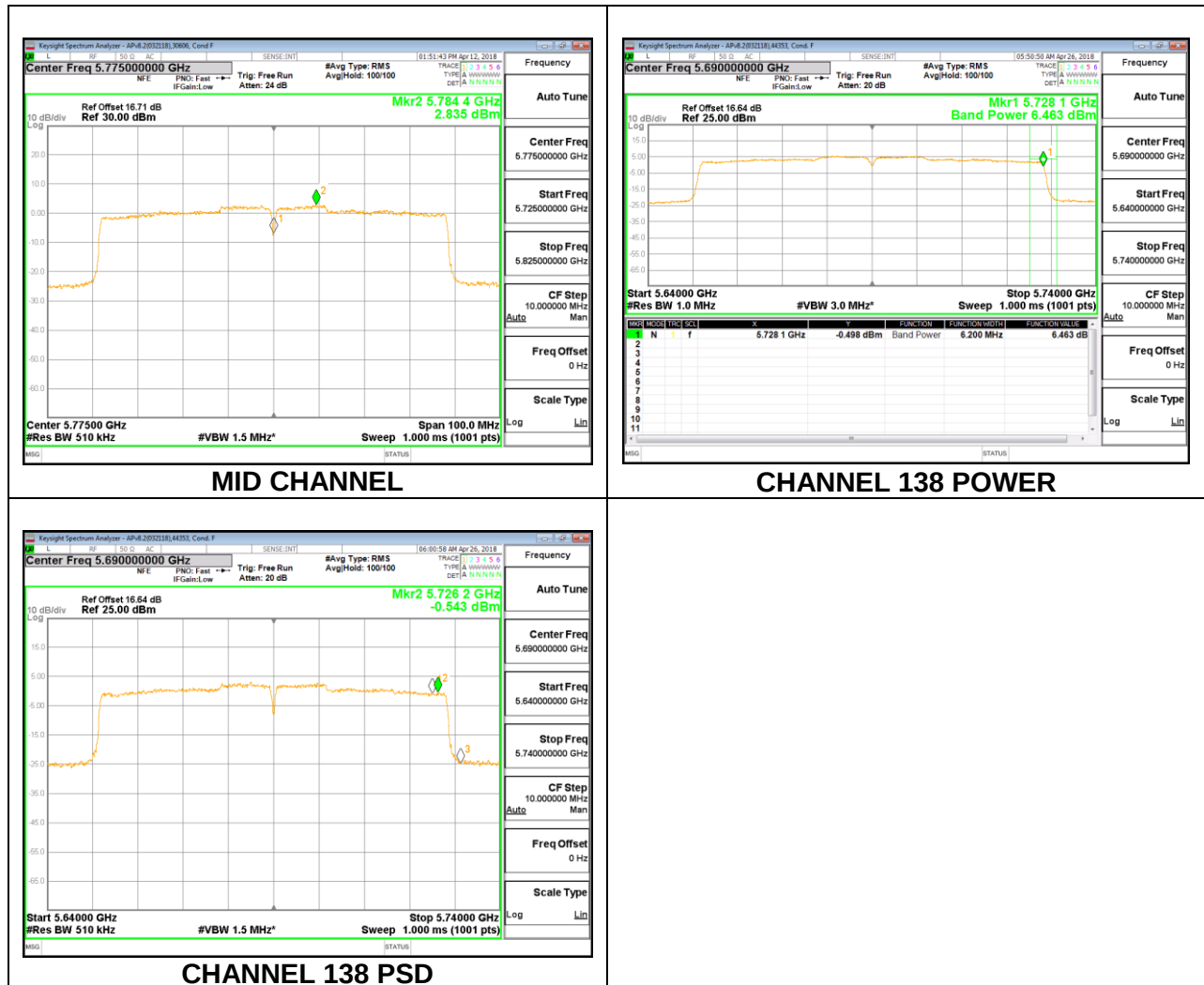
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 6 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	21.83	21.83	30.00	-8.17
138	5690	6.46	6.65	30.00	-23.35

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	2.84	3.03	30.00	-26.98
138	5690	-0.54	-0.35	30.00	-30.35



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

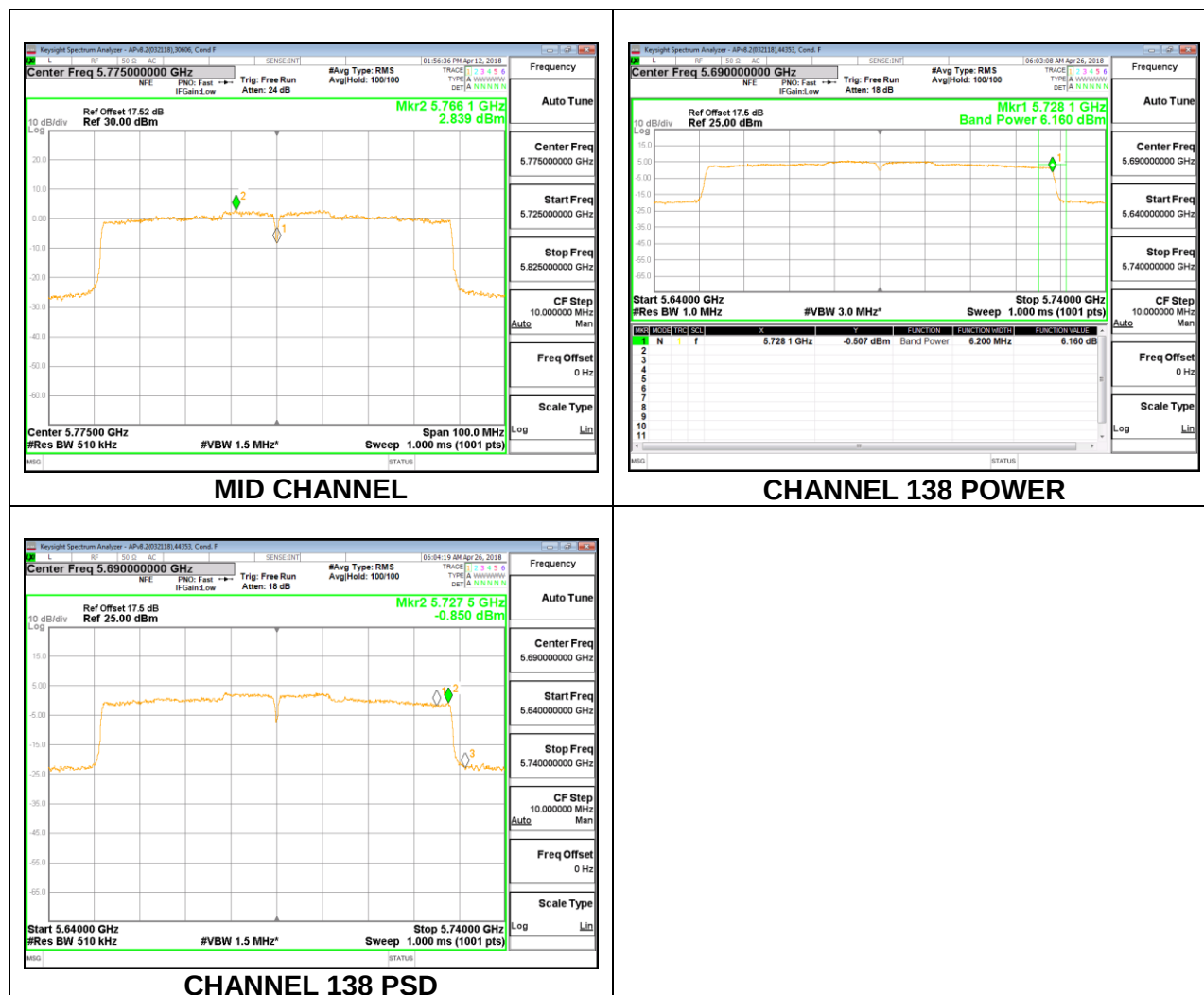
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	ANT 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	21.88	21.88	30.00	-8.12
138	5690	6.16	6.35	30.00	-23.65

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	2.84	3.03	30.00	-26.97
138	5690	-0.85	-0.66	30.00	-30.66



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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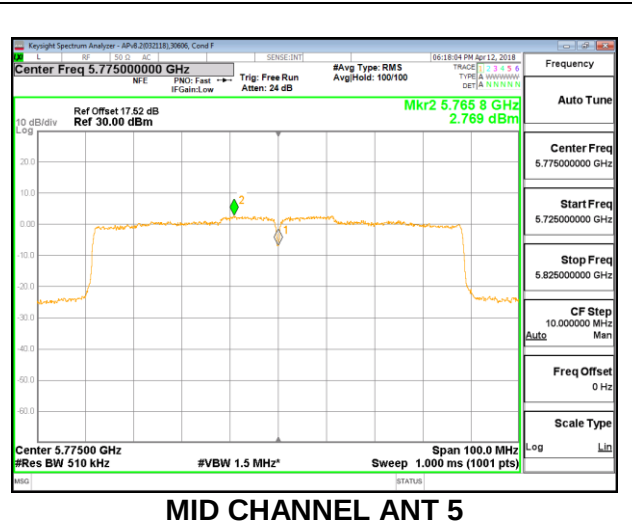
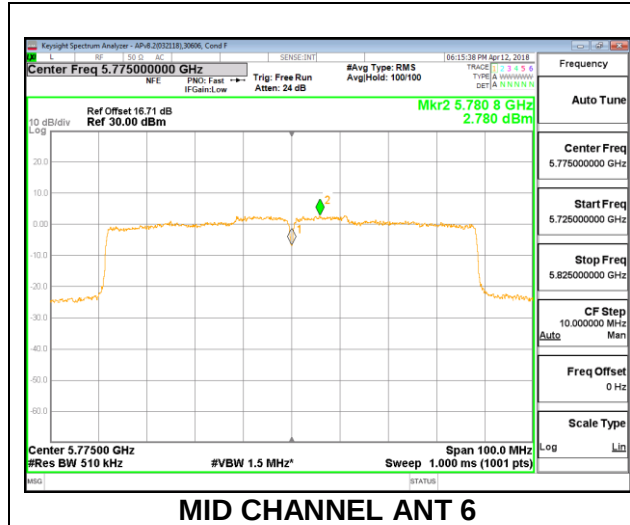
Output Power Results

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	21.91	21.86	24.90	30.00	-5.10
138	5690	4.75	4.08	7.63	30.00	-22.37

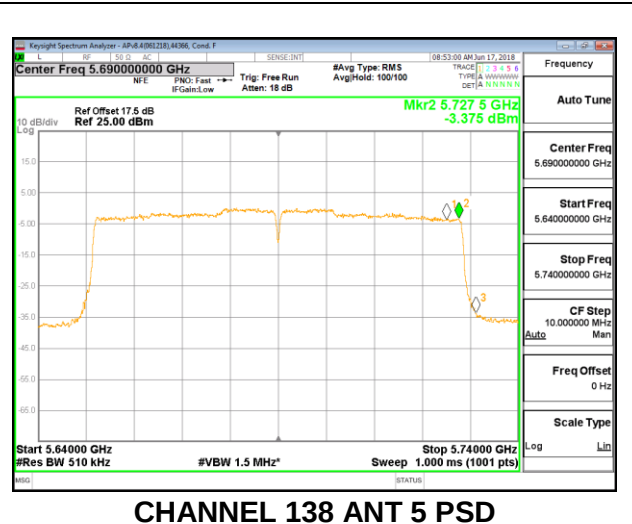
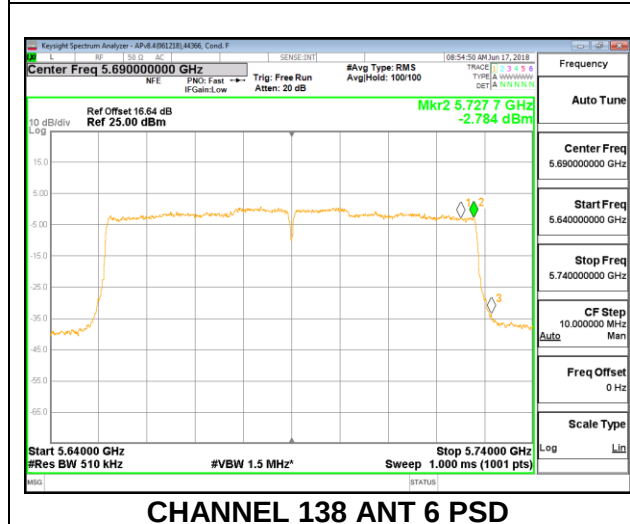
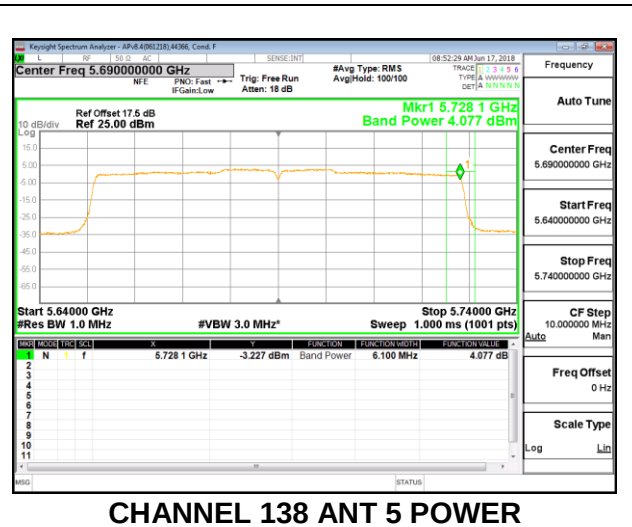
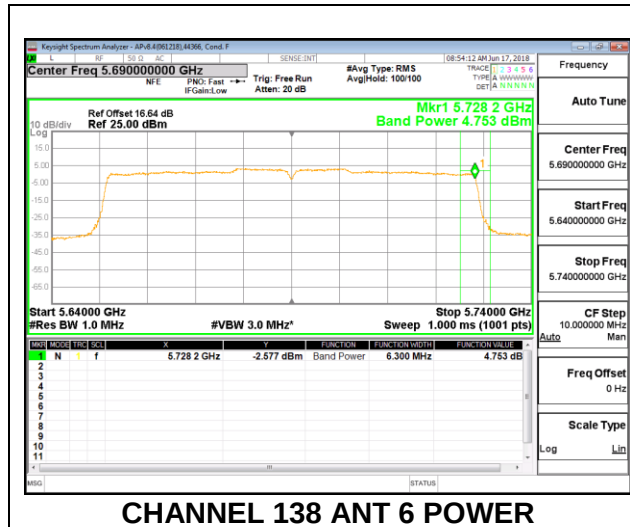
PSD Results

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	2.78	2.77	5.97	30.00	-24.03
138	5690	-2.78	-3.38	0.13	30.00	-29.87

MID CHANNEL



CHANNEL 138



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

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.

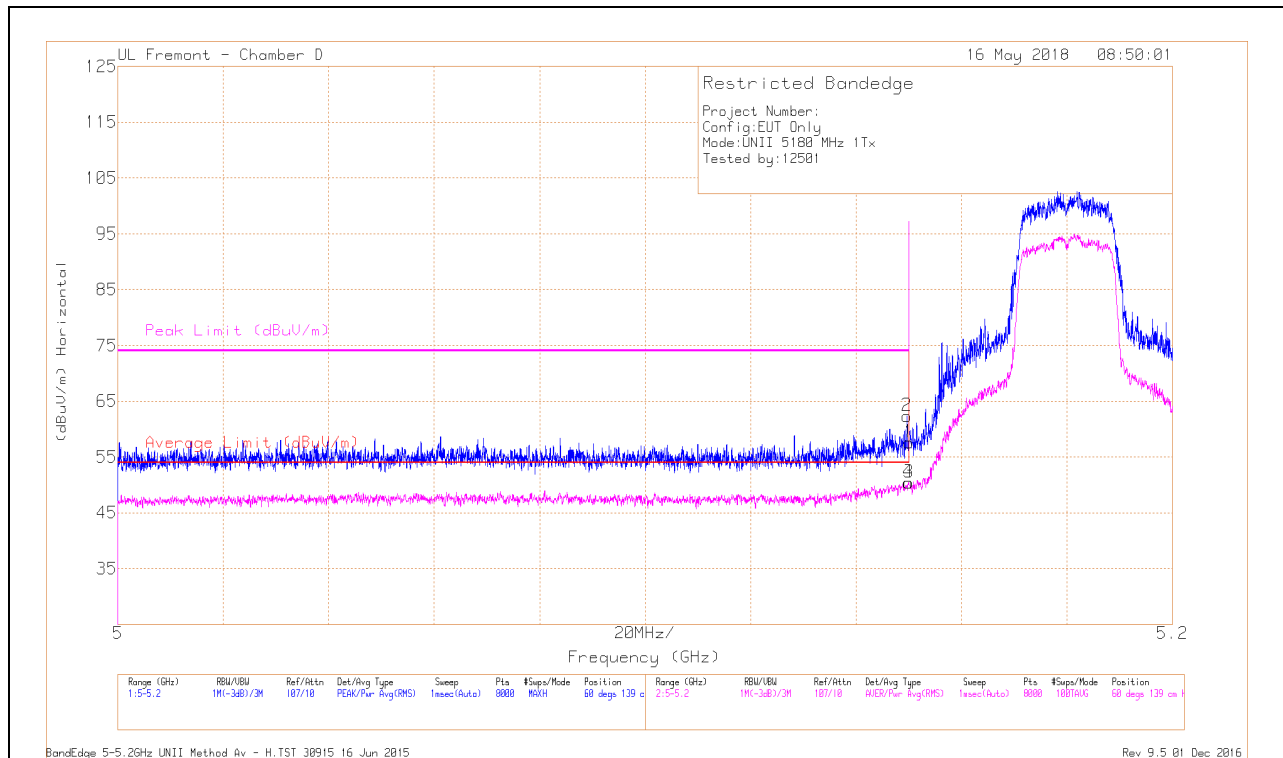
9.1. TRANSMITTER ABOVE 1 GHz

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



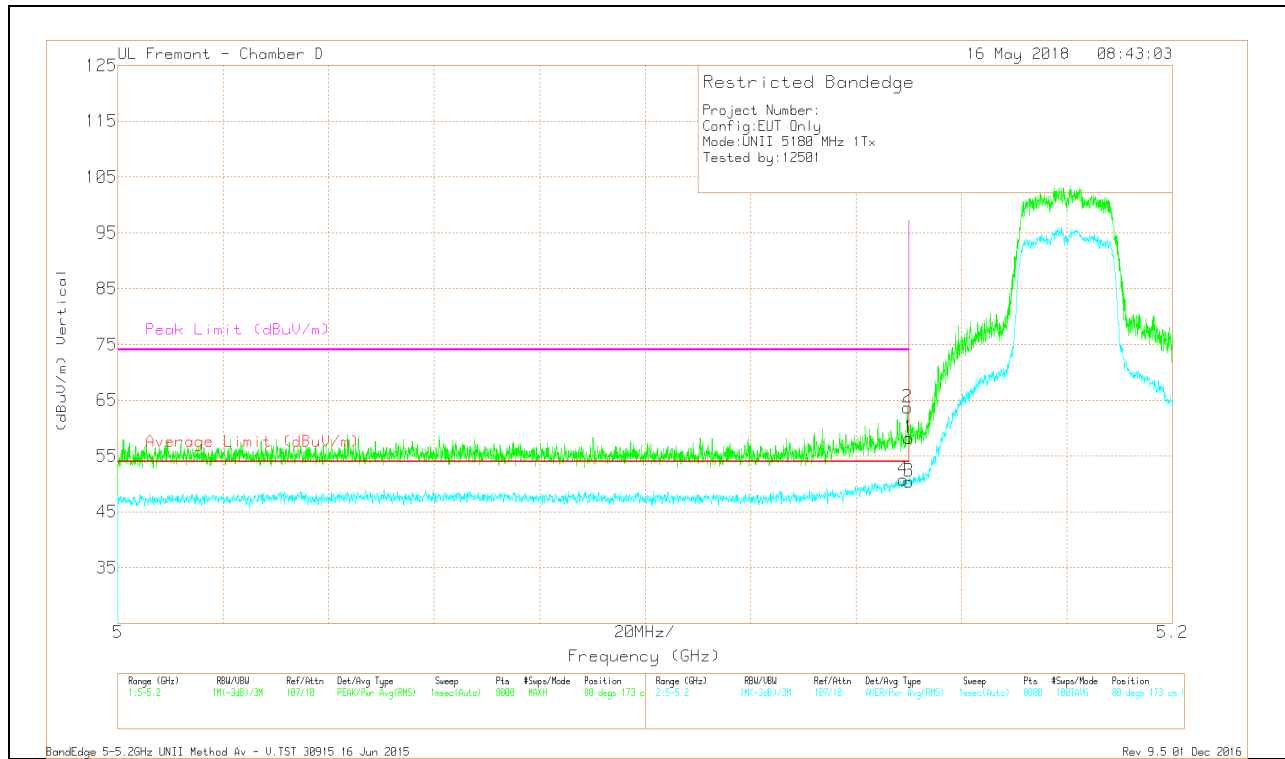
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.06	Pk	34.6	-18	57.66	-	-	74	-16.34	60	139	H
2	* 5.15	45.78	Pk	34.6	-18	62.38	-	-	74	-11.62	60	139	H
3	* 5.15	33.82	RMS	34.6	-18	50.42	54	-3.58	-	-	60	139	H
4	* 5.15	33.84	RMS	34.6	-18	50.44	54	-3.56	-	-	60	139	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
4	* 5.149	34.16	RMS	34.6	-18	50.76	54	-3.24	-	-	80	173	V
1	* 5.15	41.61	Pk	34.6	-18	58.21	-	-	74	-15.79	80	173	V
2	* 5.15	47.15	Pk	34.6	-18	63.75	-	-	74	-10.25	80	173	V
3	* 5.15	33.79	RMS	34.6	-18	50.39	54	-3.61	-	-	80	173	V

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

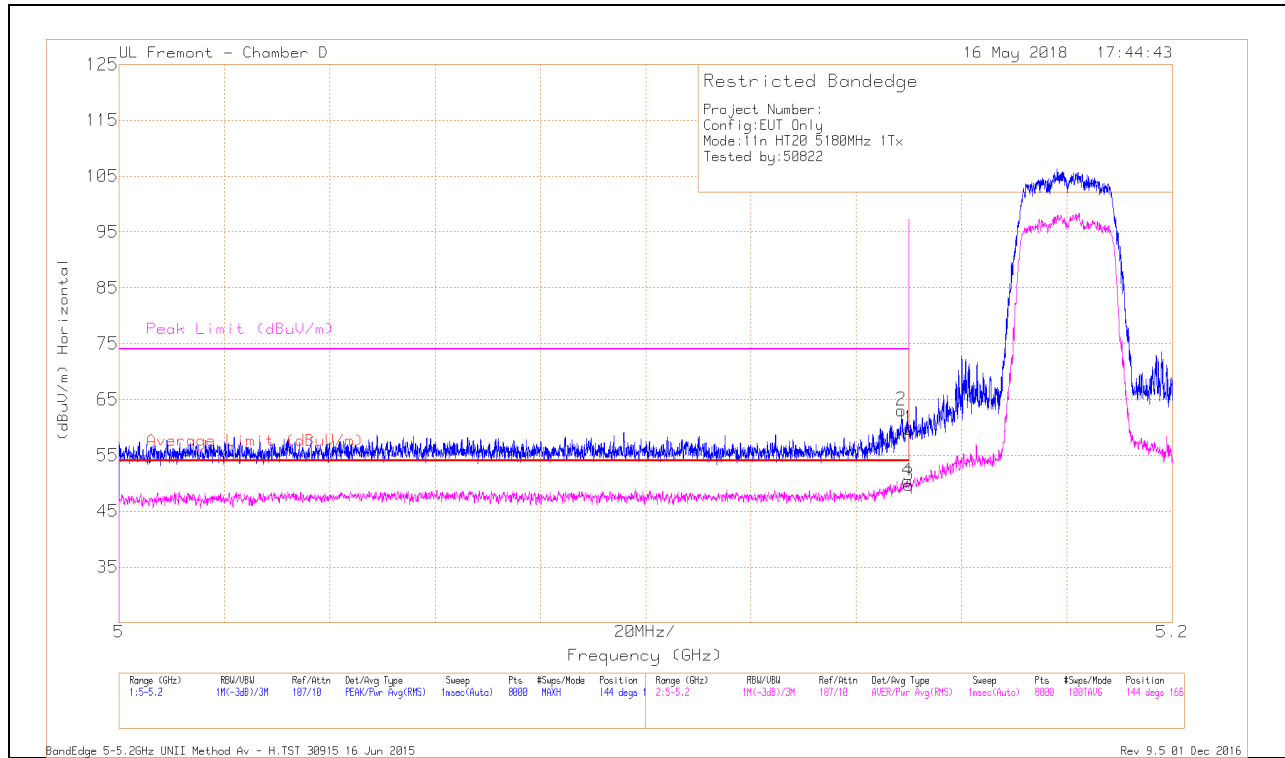
Pk - Peak detector

RMS - RMS detection

1TX Antenna 5 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



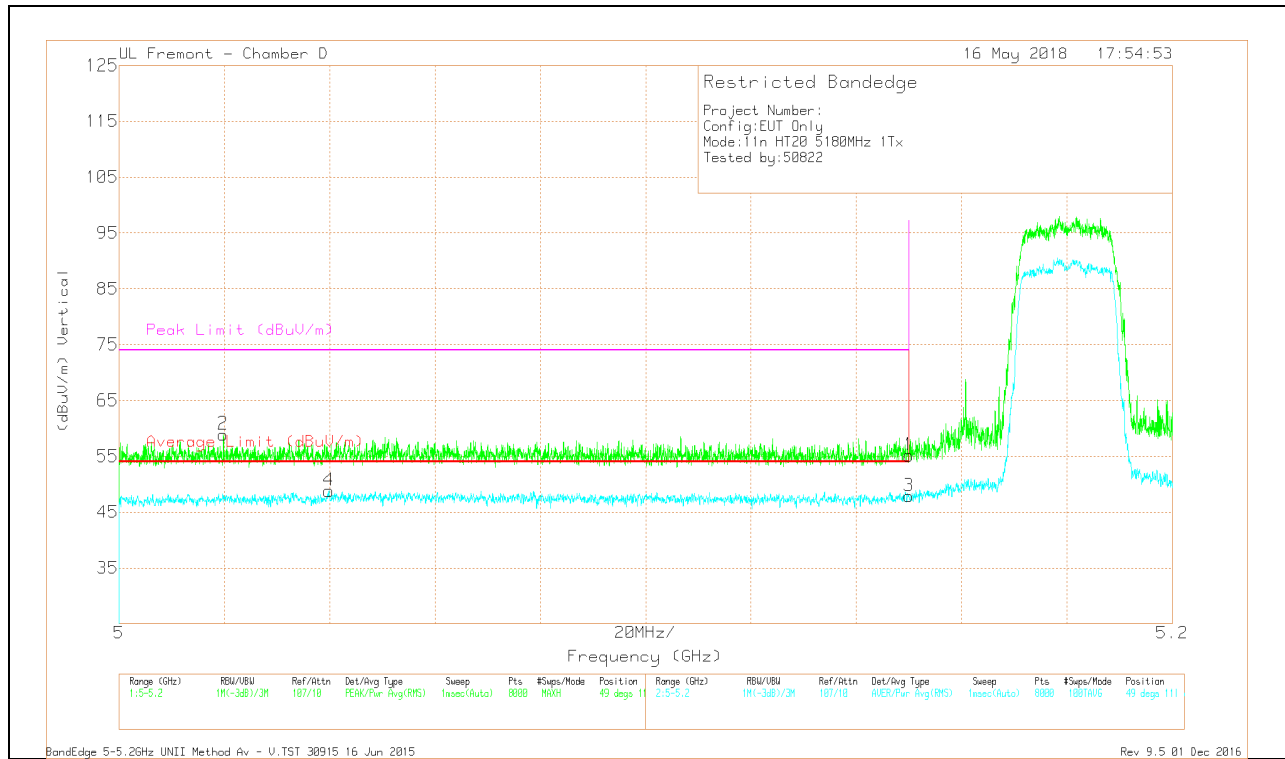
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	43.16	Pk	34.6	-18	59.76	-	-	74	-14.24	144	166	H
2	* 5.149	46.47	Pk	34.6	-18	63.07	-	-	74	-10.93	144	166	H
3	* 5.15	33.11	RMS	34.6	-18	49.71	54	-4.29	-	-	144	166	H
4	* 5.15	33.84	RMS	34.6	-18	50.44	54	-3.56	-	-	144	166	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

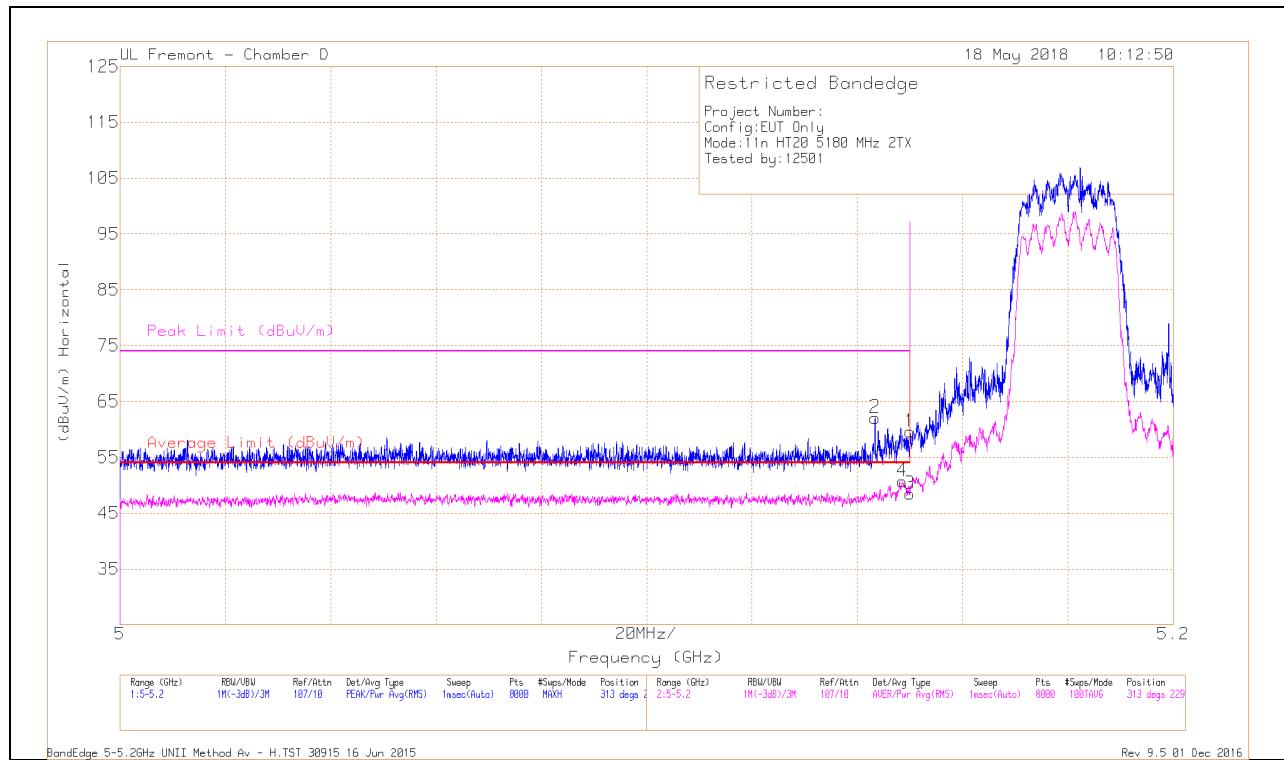


Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.56	Pk	34.6	-18	55.16	-	-	74	-18.84	49	111	V
2	* 5.02	42.32	Pk	34.4	-17.8	58.92	-	-	74	-15.08	49	111	V
3	* 5.15	31.25	RMS	34.6	-18	47.85	54	-6.15	-	-	49	111	V
4	* 5.04	32.21	RMS	34.4	-17.8	48.81	54	-5.19	-	-	49	111	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**

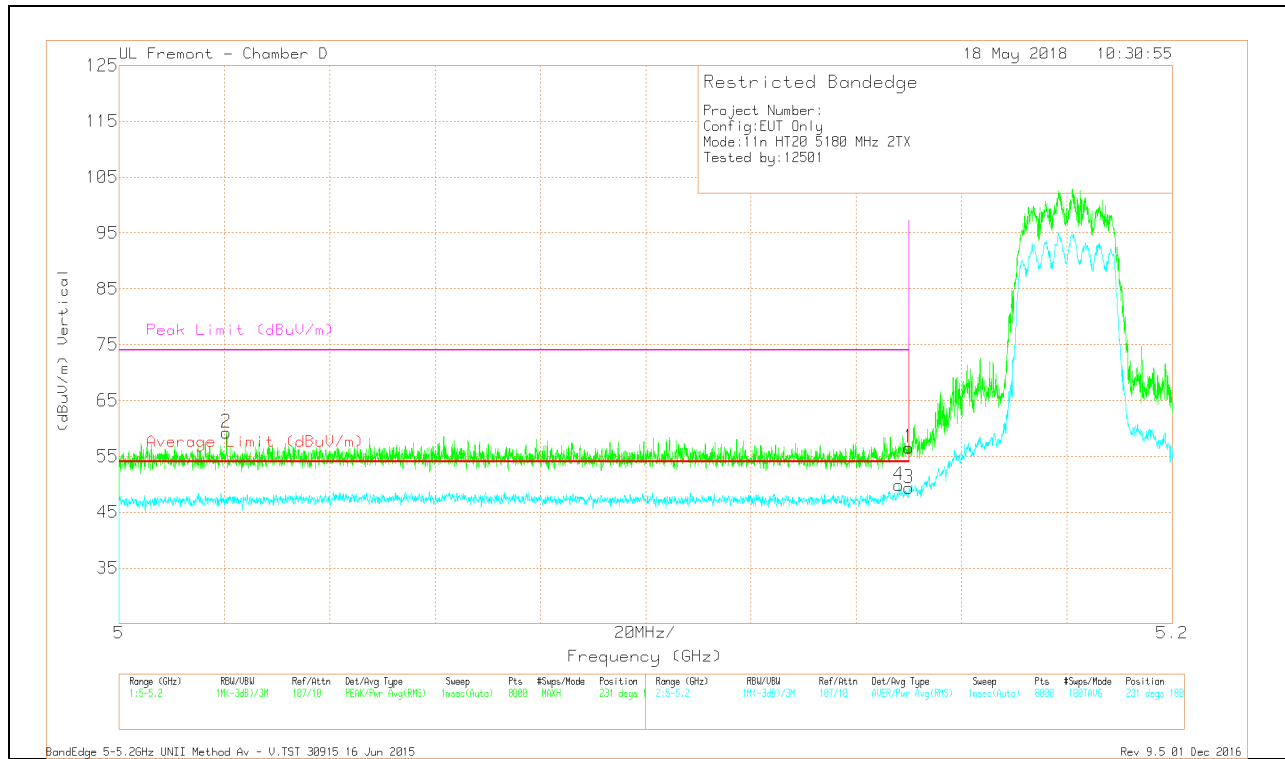
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Ampl/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.98	Pk	34.6	-18	59.58	-	-	74	-14.42	313	229	H
2	* 5.143	45.48	Pk	34.6	-18	62.08	-	-	74	-11.92	313	229	H
3	* 5.15	31.86	RMS	34.6	-18	48.46	54	-5.54	-	-	313	229	H
4	* 5.149	34.11	RMS	34.6	-18	50.71	54	-3.29	-	-	313	229	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)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.02	42.68	Pk	34.4	-17.8	59.28	-	-	74	-14.72	231	180	V
4	* 5.148	33.27	RMS	34.6	-18	49.87	54	-4.13	-	-	231	180	V
1	* 5.15	39.99	Pk	34.6	-18	56.59	-	-	74	-17.41	231	180	V
3	* 5.15	32.77	RMS	34.6	-18	49.37	54	-4.63	-	-	231	180	V

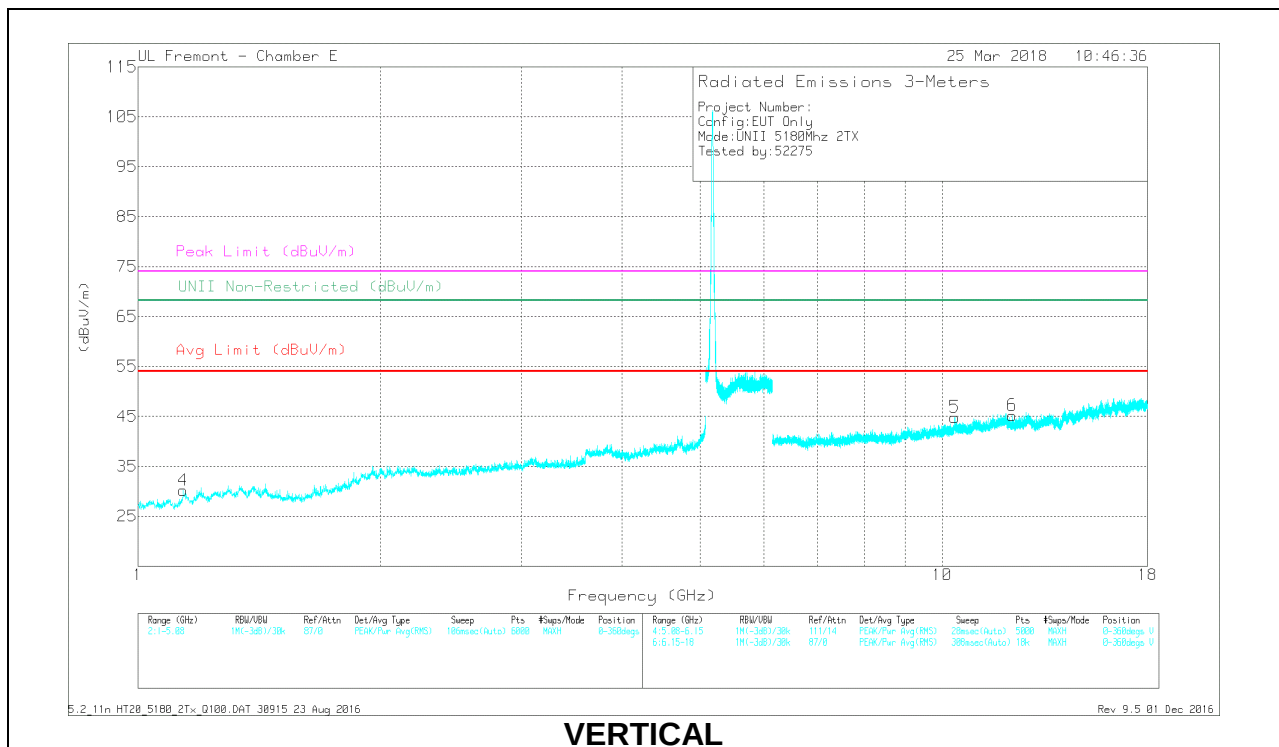
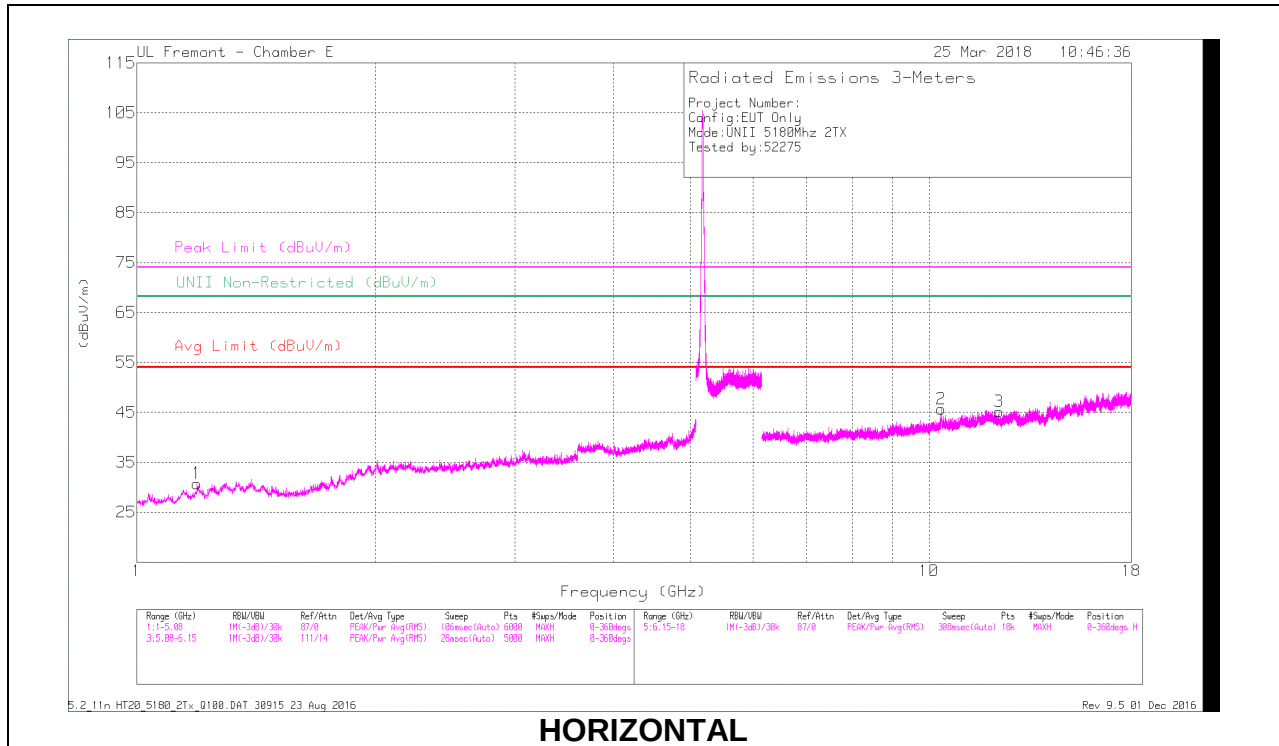
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

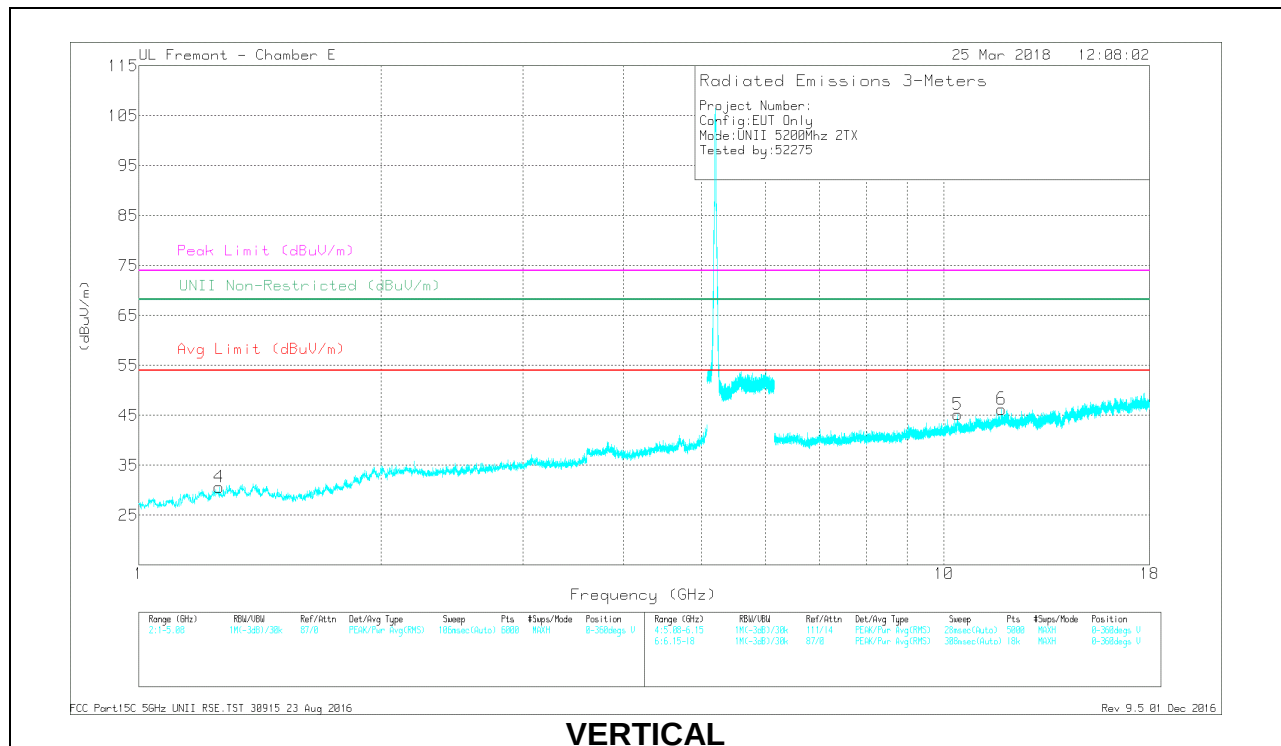
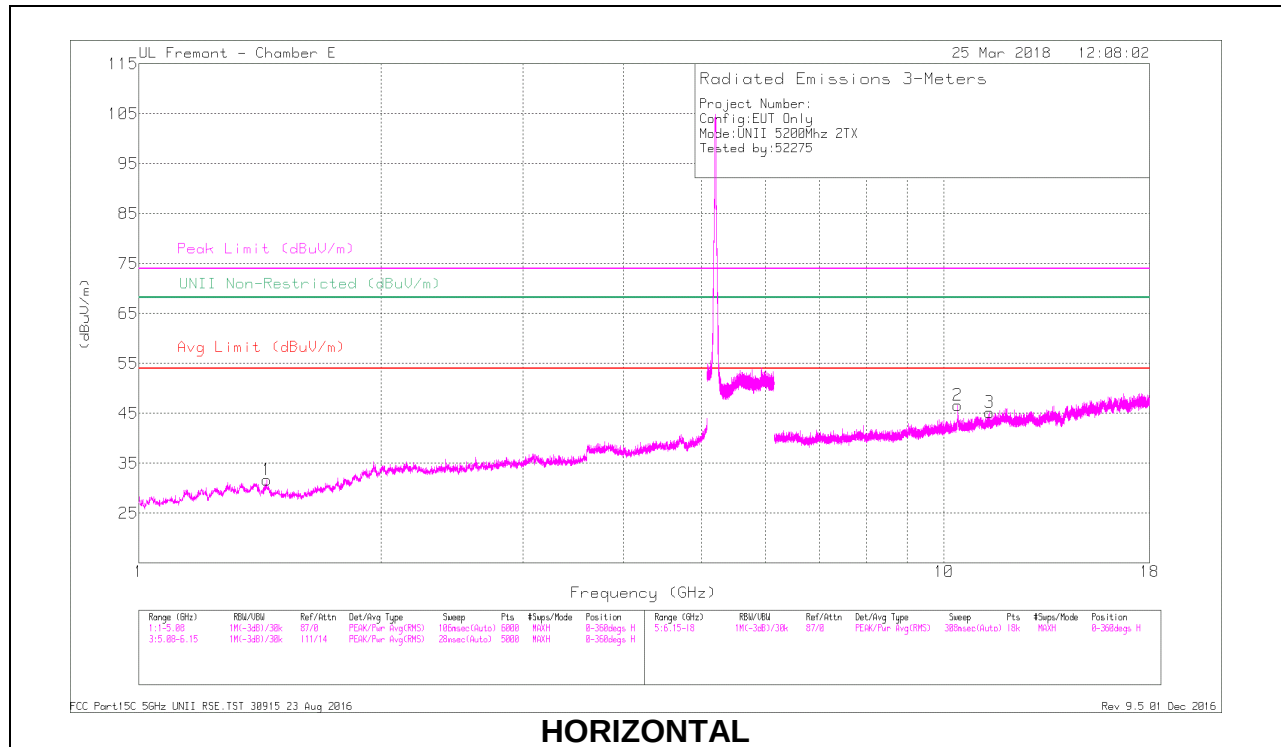
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unfil Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.191	45.17	PK-U	27.8	-35.1	37.87	-	-	74	-36.13	-	-	46	400	H
	* 1.192	32.94	ADR	27.8	-35.1	25.64	54	-28.36	-	-	-	-	46	400	H
4	* 1.139	44.73	PK-U	27	-34.9	36.83	-	-	74	-37.17	-	-	69	292	V
	* 1.137	32.73	ADR	26.9	-35	24.63	54	-29.37	-	-	-	-	69	292	V
3	* 12.246	35.94	PK-U	39	-23.9	51.04	-	-	74	-22.96	-	-	303	359	H
	* 12.246	23.81	ADR	39	-23.9	38.91	54	-15.09	-	-	-	-	303	359	H
6	* 12.211	37.39	PK-U	39	-24.1	52.29	-	-	74	-21.71	-	-	211	107	V
	* 12.211	24.85	ADR	39	-24.1	39.75	54	-14.25	-	-	-	-	211	107	V
2	10.361	39.27	PK-U	37.7	-23.2	53.77	-	-	-	-	68.2	-14.43	78	129	H
5	10.365	37.48	PK-U	37.7	-23.2	51.98	-	-	-	-	68.2	-16.22	32	136	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

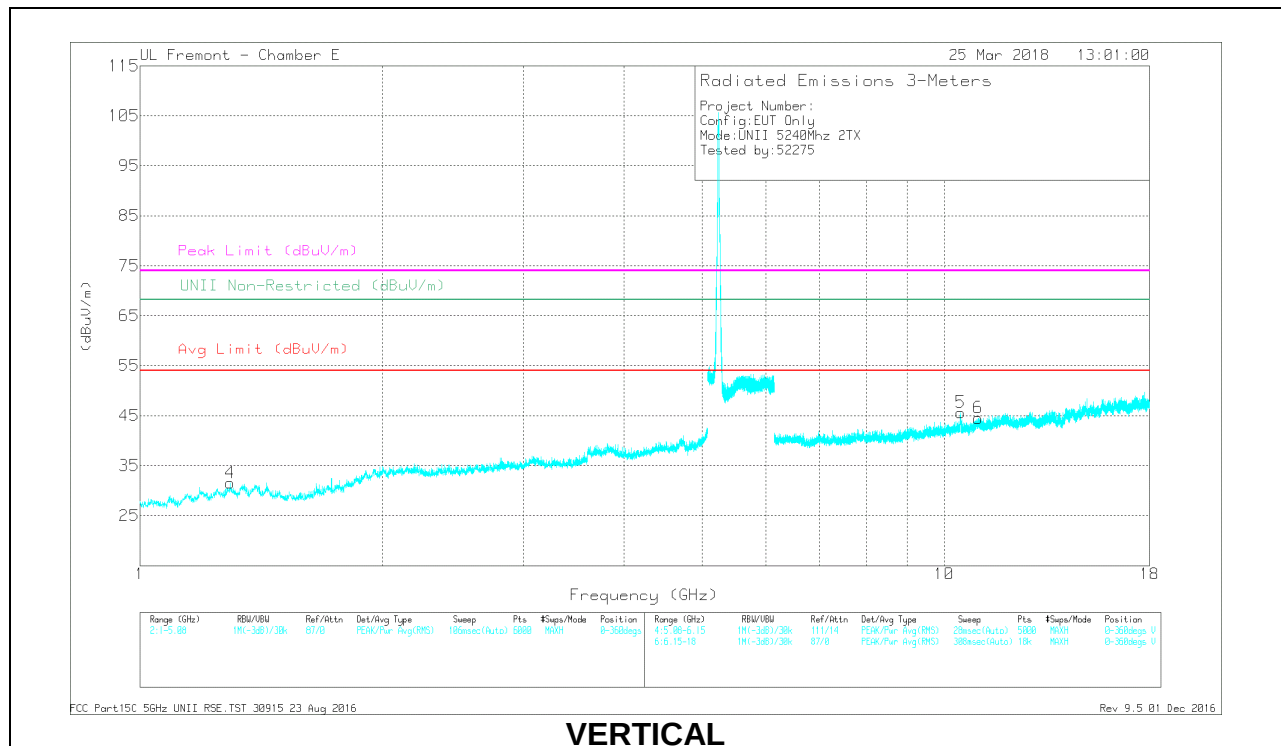
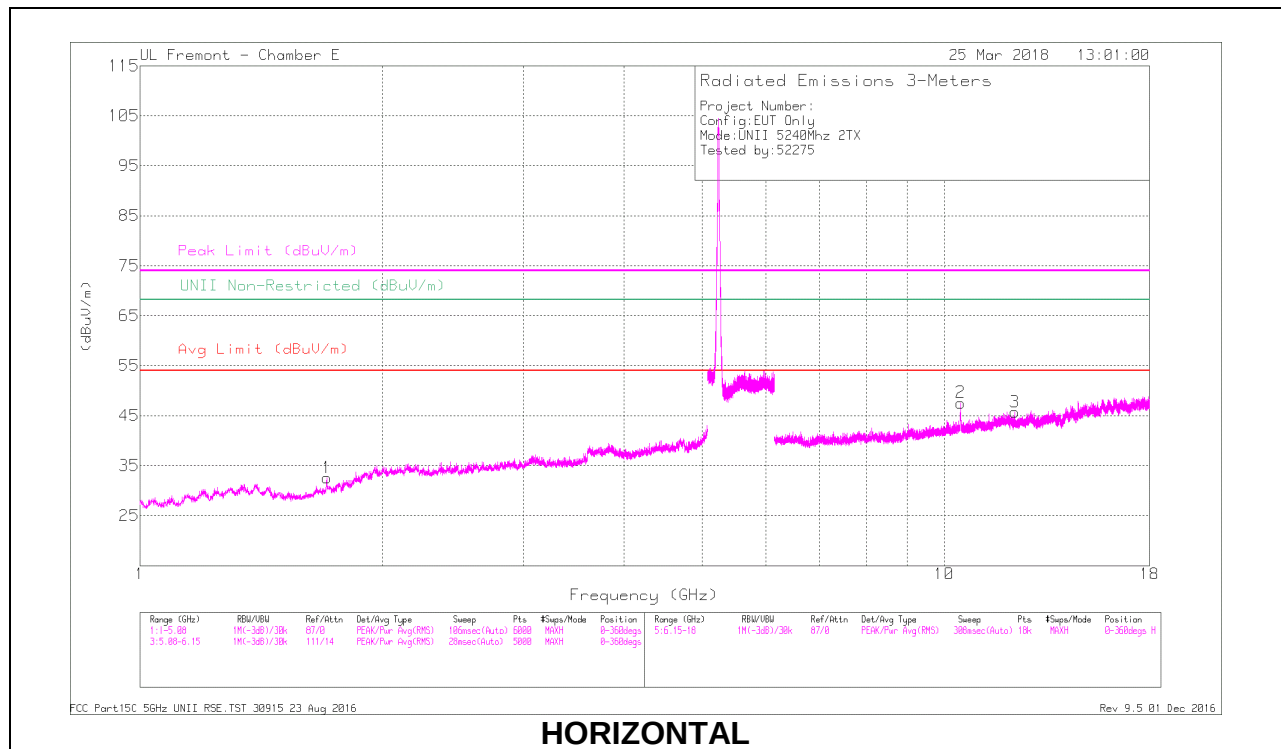
Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unli Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.443	44.37	PK-U	28.3	-34.4	38.27	-	-	74	-35.73	-	-	289	190	H
	* 1.442	32.36	ADR	28.3	-34.4	26.26	54	-27.74	-	-	-	-	289	190	H
4	* 1.257	44.57	PK-U	28.5	-35.3	37.77	-	-	74	-36.23	-	-	274	394	V
	* 1.256	32.59	ADR	28.5	-35.4	25.69	54	-28.31	-	-	-	-	274	394	V
3	* 11.386	34.07	PK-U	38.5	-23.3	49.27	-	-	74	-24.73	-	-	241	147	H
	* 11.386	20.79	ADR	38.5	-23.3	35.99	54	-18.01	-	-	-	-	241	147	H
6	* 11.797	36.06	PK-U	39.5	-23.5	52.06	-	-	74	-21.94	-	-	270	133	V
	* 11.798	23.32	ADR	39.5	-23.5	39.32	54	-14.68	-	-	-	-	270	133	V
5	10.4	39.22	PK-U	37.7	-23.2	53.72	-	-	-	-	68.2	-14.48	246	115	V
2	10.402	38.91	PK-U	37.7	-23.2	53.41	-	-	-	-	68.2	-14.79	204	112	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 (GHz)	Meter Reading (dBuV)	Det	AF T346 (dBm)	Amp/Cbl/Filt/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unli Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.708	43.74	PK-U	28.4	-33.2	38.94	-	-	74	-35.06	-	-	155	156	H
	* 1.709	31.62	ADR	28.4	-33.2	26.82	54	-27.18	-	-	-	-	155	156	H
4	* 1.296	44.8	PK-U	28.9	-35.1	38.6	-	-	74	-35.4	-	-	296	328	V
	* 1.294	32.74	ADR	28.9	-35.1	26.54	54	-27.46	-	-	-	-	296	328	V
3	* 12.236	36.62	PK-U	39	-24.2	51.62	-	-	74	-22.38	-	-	304	123	H
	* 12.237	24.6	ADR	39	-24.2	39.4	54	-14.6	-	-	-	-	304	123	H
6	* 11.023	36.14	PK-U	38.5	-22.8	51.84	-	-	74	-22.16	-	-	212	364	V
	* 11.024	22.86	ADR	38.5	-22.8	39.56	54	-15.44	-	-	-	-	212	364	V
2	10.48	40.38	PK-U	37.9	-23.2	55.08	-	-	-	-	68.2	-13.12	208	109	H
5	10.48	39.55	PK-U	37.9	-23.2	54.25	-	-	-	-	68.2	-13.95	236	110	V

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

PK-U - U-NII: Maximum Peak

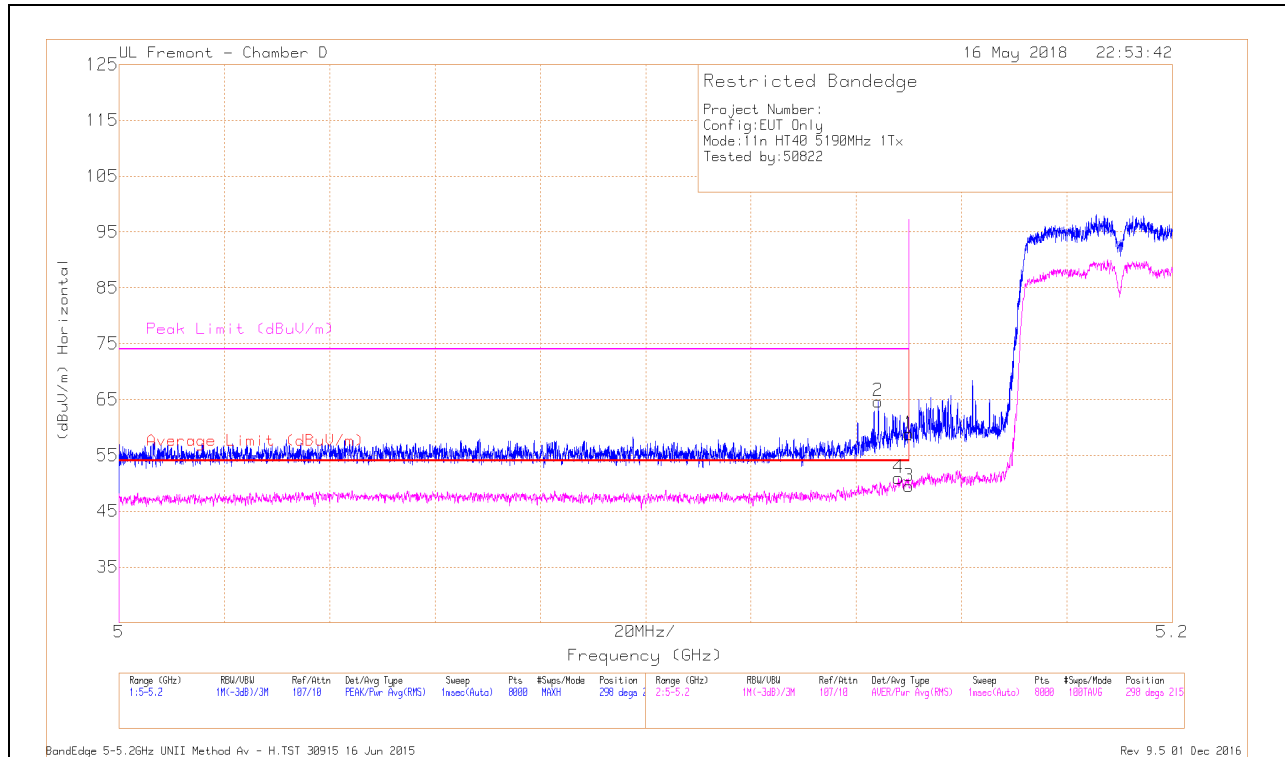
ADR - U-NII AD primary method, RMS average

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

1TX Antenna 6 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



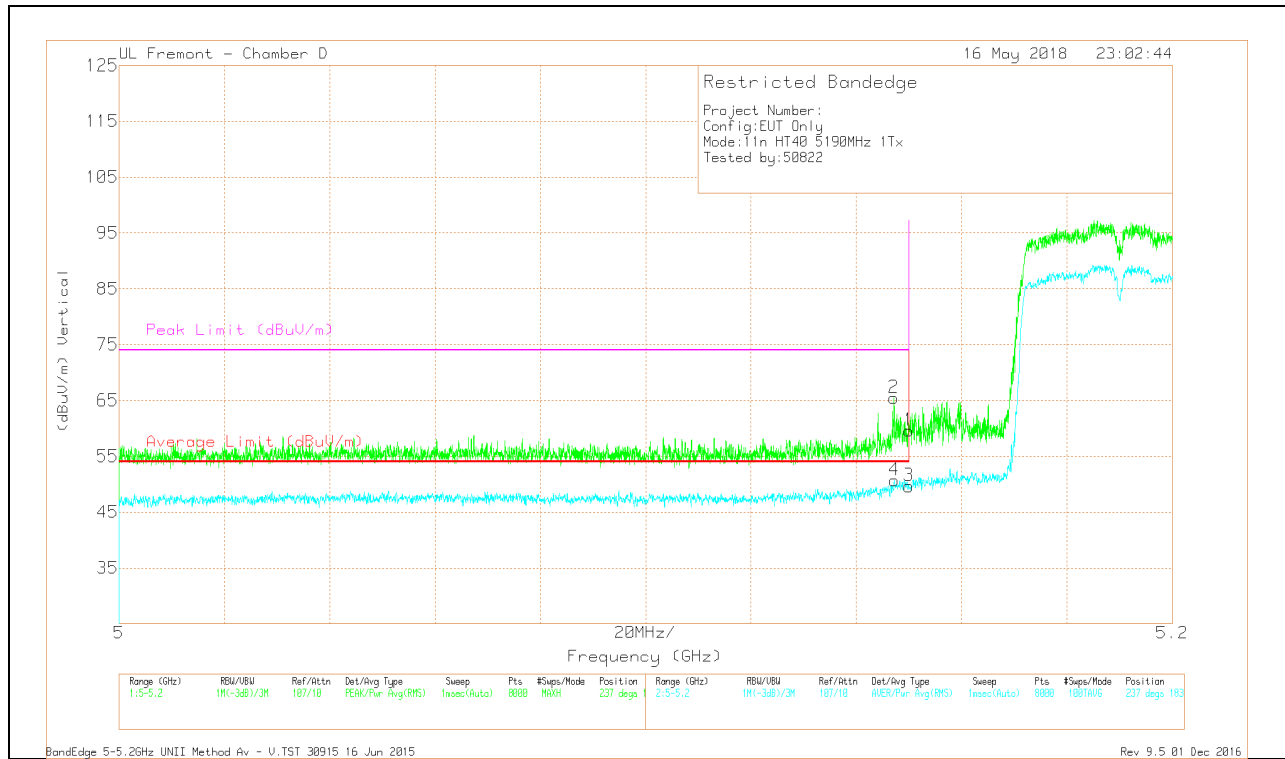
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.144	48.08	Pk	34.6	-18	0	64.68	-	-	74	-9.32	298	215	H
4	* 5.148	34.26	RMS	34.6	-18	.1	50.96	54	-3.04	-	-	298	215	H
1	* 5.15	42.24	Pk	34.6	-18	0	58.84	-	-	74	-15.16	298	215	H
3	* 5.15	32.74	RMS	34.6	-18	.1	49.44	54	-4.56	-	-	298	215	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/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
2	*5.147	48.85	Pk	34.6	-18	0	65.45	-	-	74	-8.55	237	183	V
4	*5.147	33.98	RMS	34.6	-18	.1	50.68	54	-3.32	-	-	237	183	V
1	*5.15	43.02	Pk	34.6	-18	0	59.62	-	-	74	-14.38	237	183	V
3	*5.15	32.97	RMS	34.6	-18	.1	49.67	54	-4.33	-	-	237	183	V

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

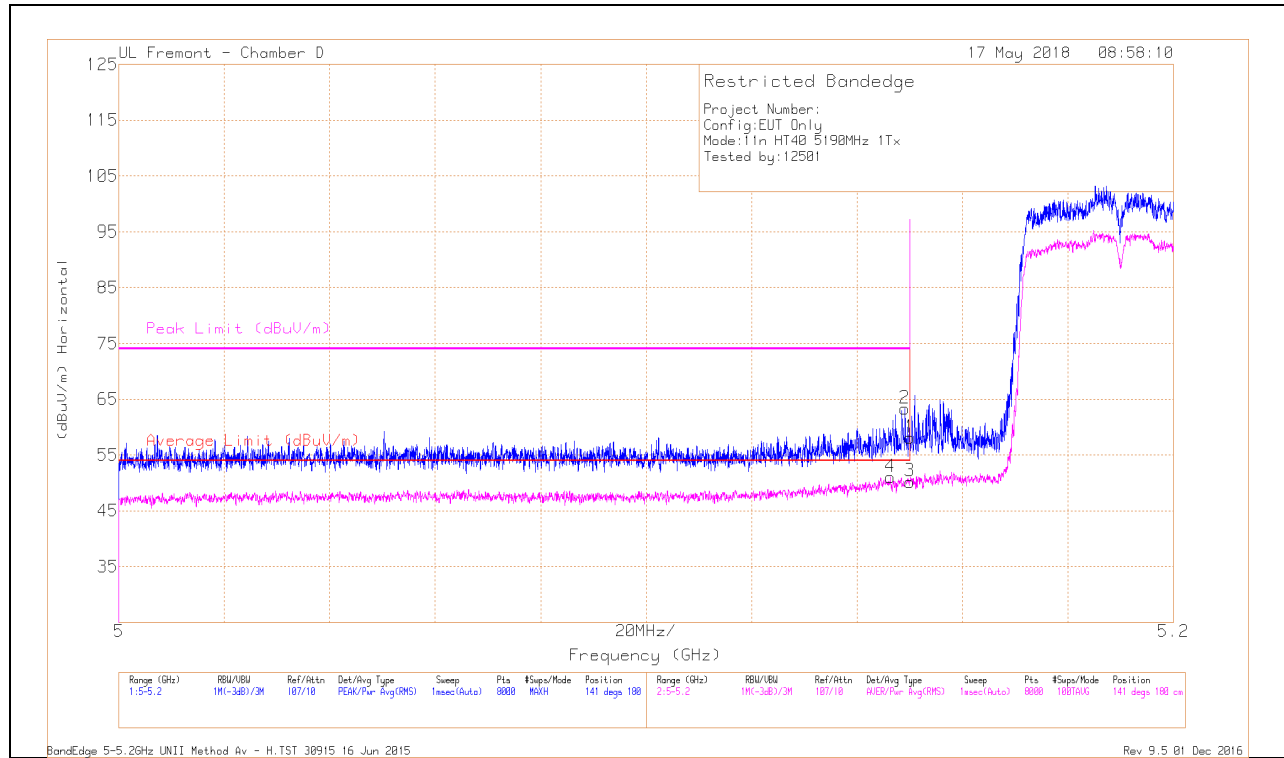
Pk - Peak detector

RMS - RMS detection

1TX Antenna 5 MODE

BANDEDGE (LOW CHANNEL)

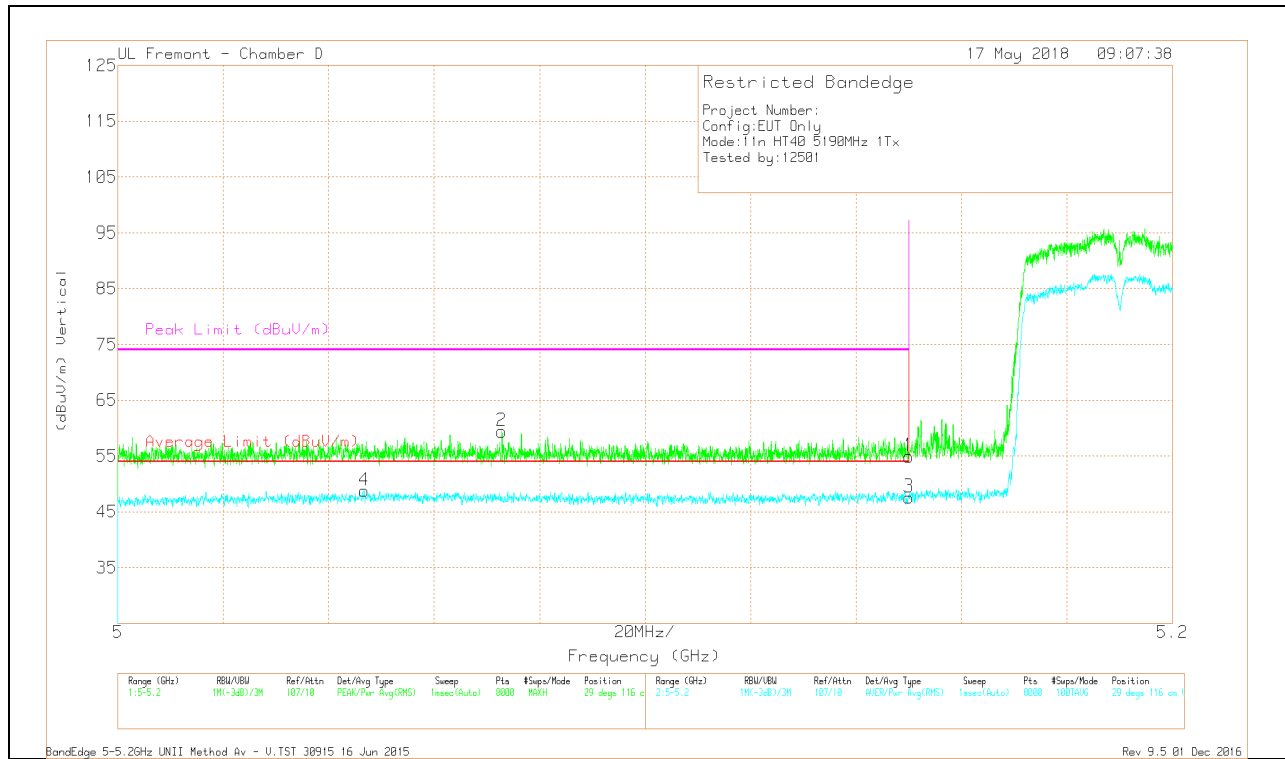
HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Ampl/Cb/IFtr/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	41.47	Pk	34.6	-18	0	58.07	-	-	74	-15.93	141	180	H
2	* 5.149	46.71	Pk	34.6	-18	0	63.31	-	-	74	-10.69	141	180	H
3	* 5.15	33.53	RMS	34.6	-18	.1	50.23	54	-3.77	-	-	141	180	H
4	* 5.146	34.32	RMS	34.6	-18	.1	51.02	54	-2.98	-	-	141	180	H

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

VERTICAL RESULT

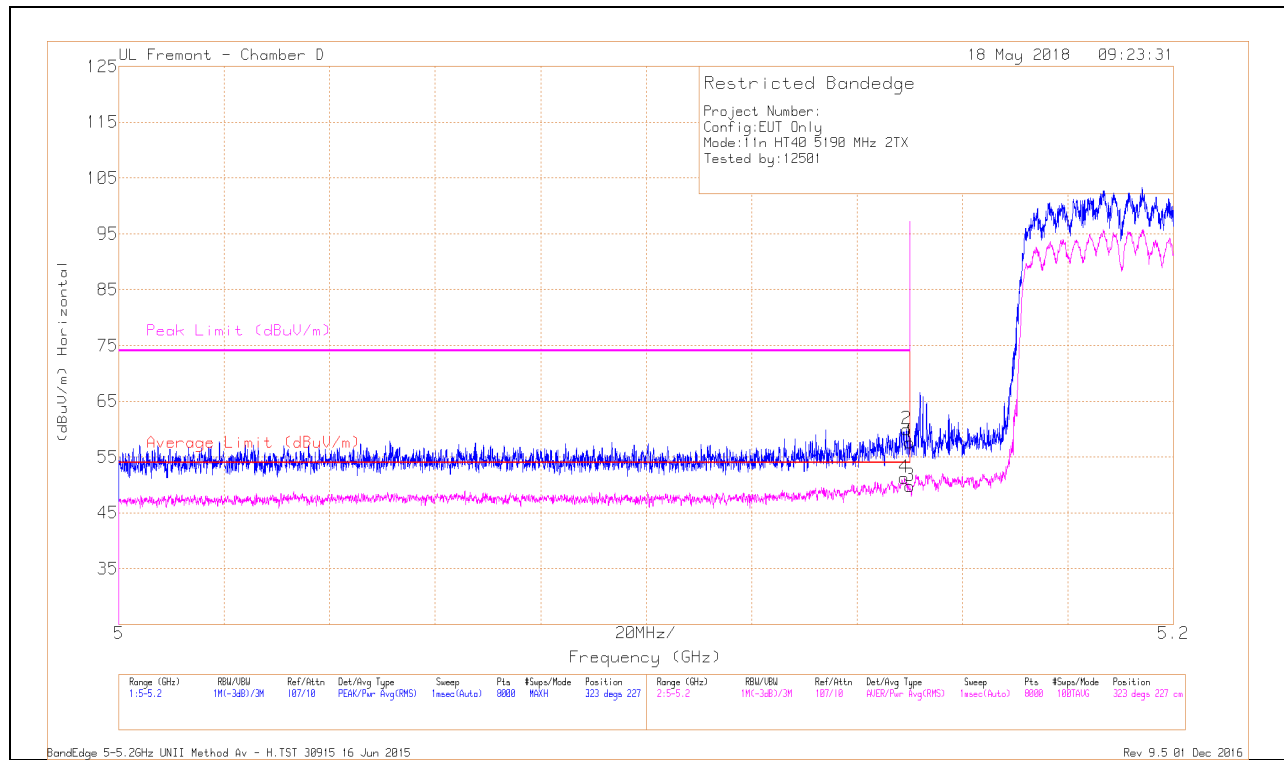


Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*5.047	32.02	RMS	34.5	-17.8	.1	48.82	54	-5.18	-	-	29	116	V
2	*5.073	42.62	Pk	34.5	-17.7	0	59.42	-	-	74	-14.58	29	116	V
1	*5.15	38.35	Pk	34.6	-18	0	54.95	-	-	74	-19.05	29	116	V
3	*5.15	30.92	RMS	34.6	-18	.1	47.62	54	-6.38	-	-	29	116	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**

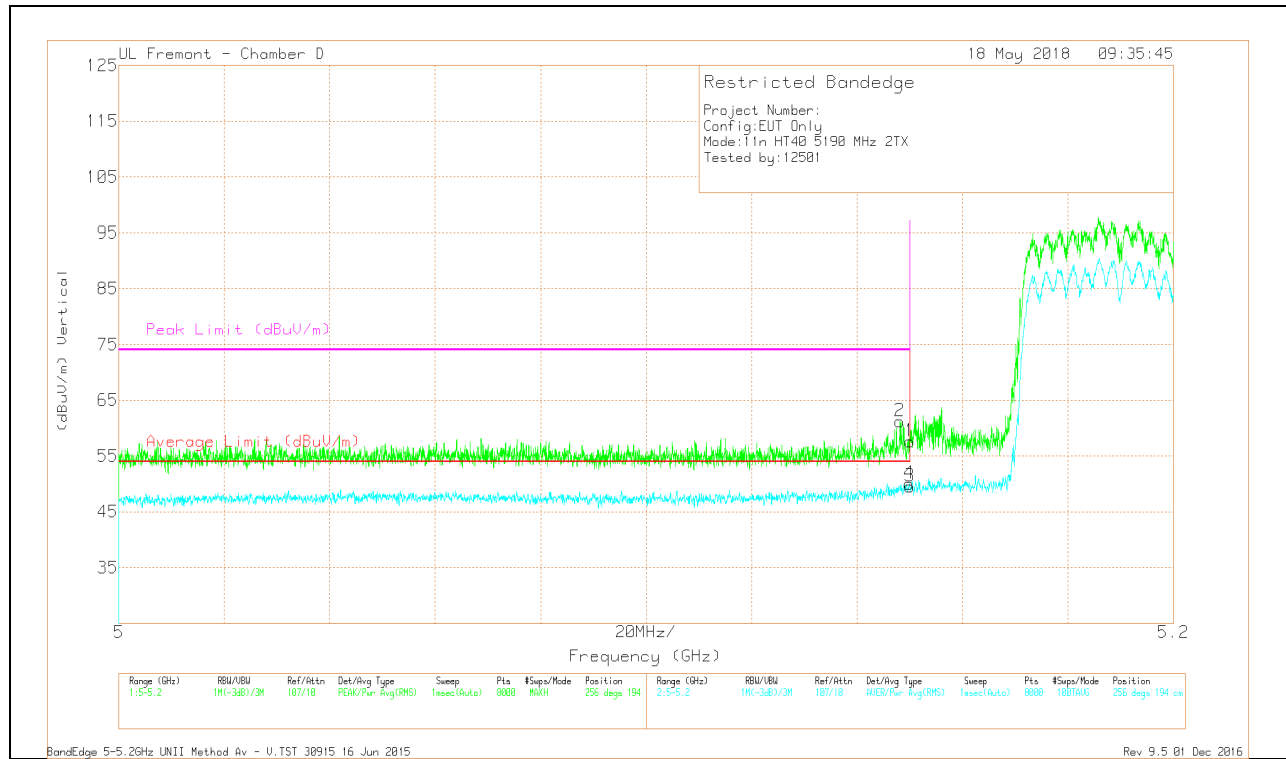
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/IFtr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.05	Pk	34.6	-18	0	57.65	-	-	74	-16.35	323	227	H
2	* 5.149	43.39	Pk	34.6	-18	0	59.99	-	-	74	-14.01	323	227	H
3	* 5.15	33.09	RMS	34.6	-18	.1	49.79	54	-4.21	-	-	323	227	H
4	* 5.149	34.62	RMS	34.6	-18	.1	51.32	54	-2.68	-	-	323	227	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
2	* 5.148	44.67	PK	34.6	-18	0	61.27	-	-	74	-12.73	256	194	V
1	* 5.15	41.02	PK	34.6	-18	0	57.62	-	-	74	-16.38	256	194	V
3	* 5.15	32.89	RMS	34.6	-18	.1	49.59	54	-4.41	-	-	256	194	V
4	* 5.15	33.31	RMS	34.6	-18	.1	49.8	54	-4.2	-	-	256	194	V

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

Pk - Peak detector

RMS - RMS detection