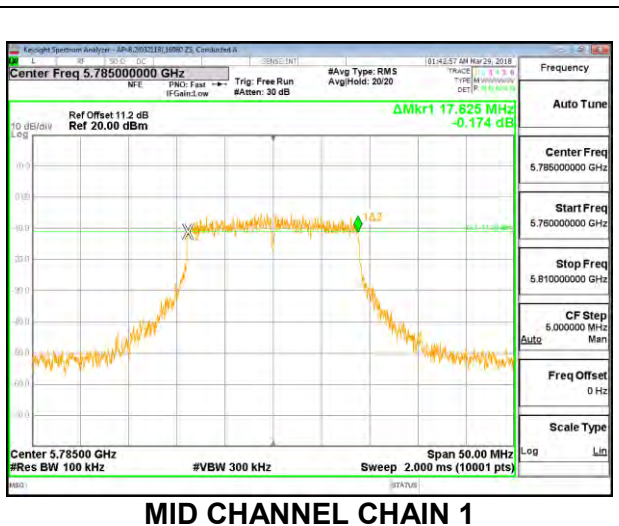
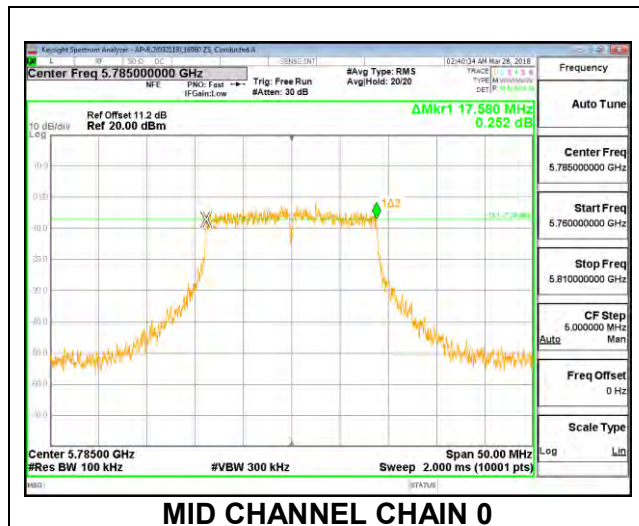


MID CHANNEL



The figure displays two side-by-side screenshots of a Keysight Spectrum Analyzer, showing the frequency response of two different channel chains, labeled "HIGH CHANNEL CHAIN 0" and "HIGH CHANNEL CHAIN 1".

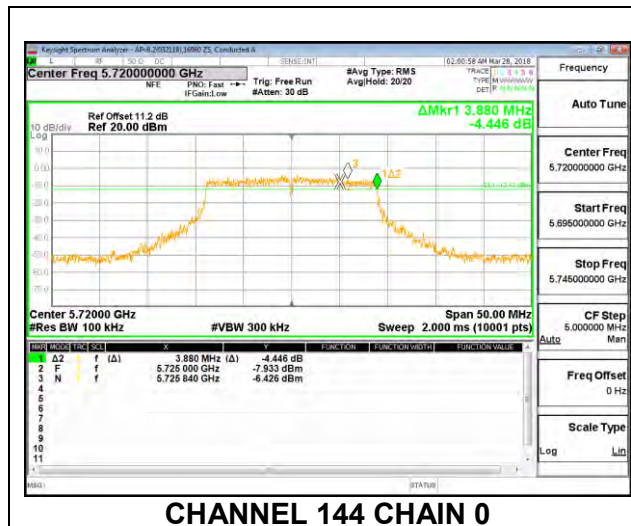
Left Screenshot (HIGH CHANNEL CHAIN 0):

- Center Freq:** 5.825000000 GHz
- Ref Offset:** 11.2 dB
- Ref:** 20.00 dBm
- DMkr1:** 17.625 MHz
- DMkr1 Level:** 0.112 dB
- Span:** 50.00 MHz
- Res BW:** 100 kHz
- #VBW:** 300 kHz
- Sweep:** 2.000 ms (10001 pts)
- CF Step:** 5.000000 MHz
- Freq Offset:** 0 Hz
- Scale Type:** Log

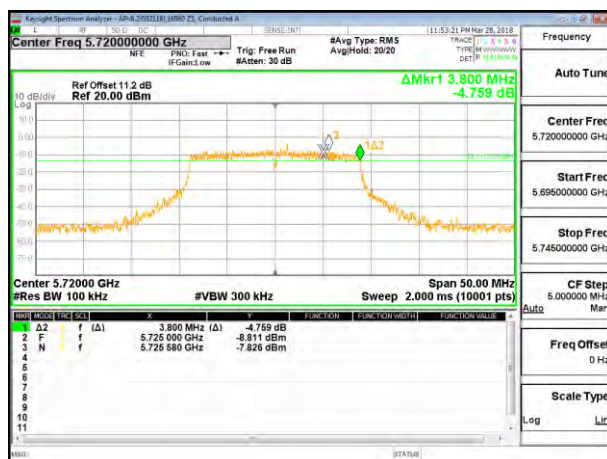
Right Screenshot (HIGH CHANNEL CHAIN 1):

- Center Freq:** 5.825000000 GHz
- Ref Offset:** 11.2 dB
- Ref:** 20.00 dBm
- DMkr1:** 17.570 MHz
- DMkr1 Level:** 0.082 dB
- Span:** 50.00 MHz
- Res BW:** 100 kHz
- #VBW:** 300 kHz
- Sweep:** 2.000 ms (10001 pts)
- CF Step:** 5.000000 MHz
- Freq Offset:** 0 Hz
- Scale Type:** Log

CHANNEL 144



CHANNEL 144 CHAIN 0

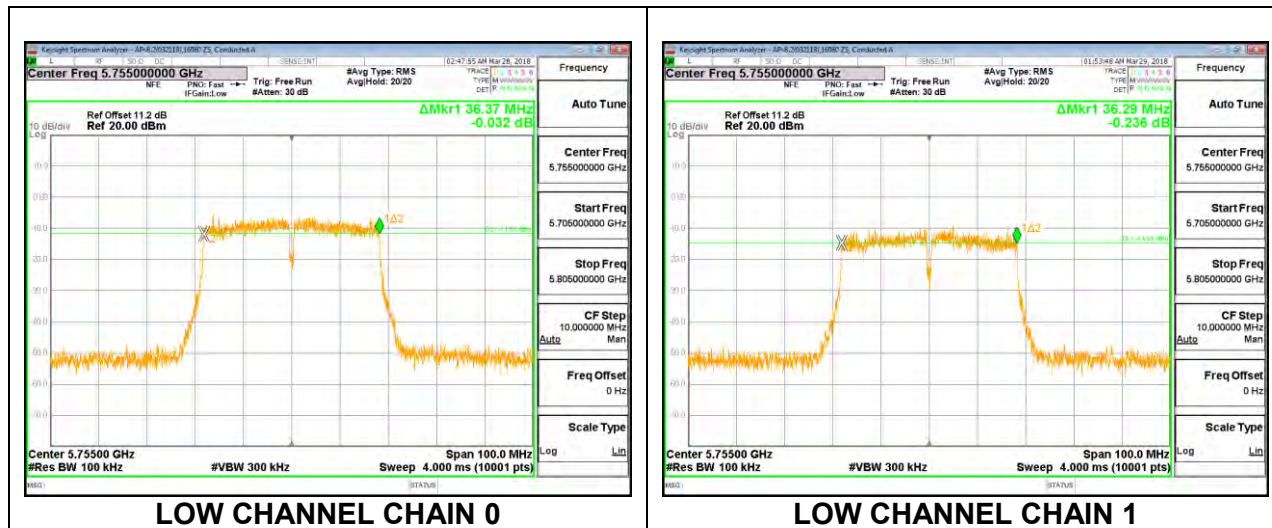


CHANNEL 144 CHAIN 1

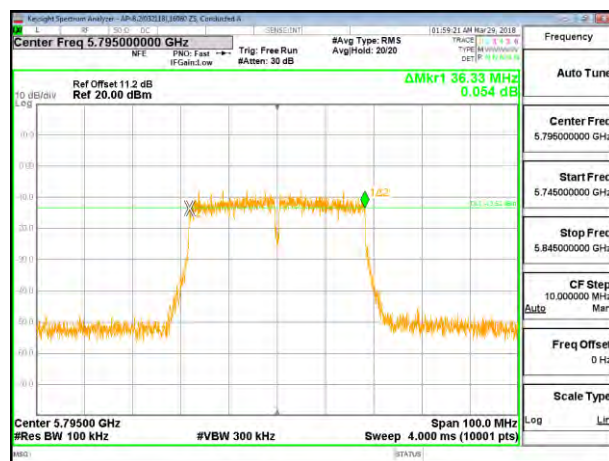
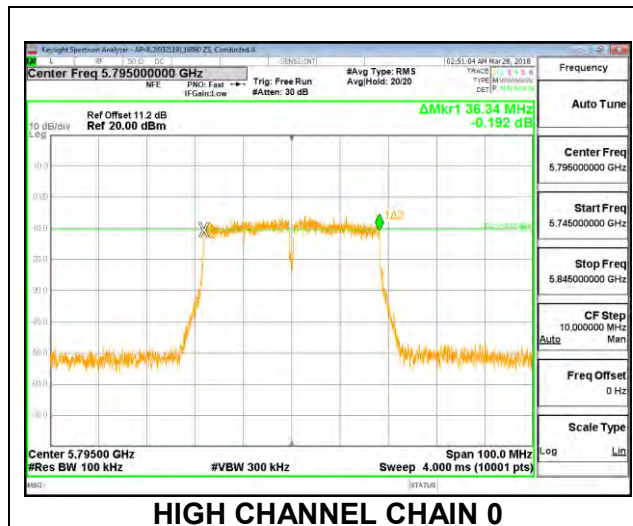
8.4.3. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Low	5755	36.370	36.290	0.5
High	5795	36.340	36.330	0.5
142	5710	3.240	3.170	0.5

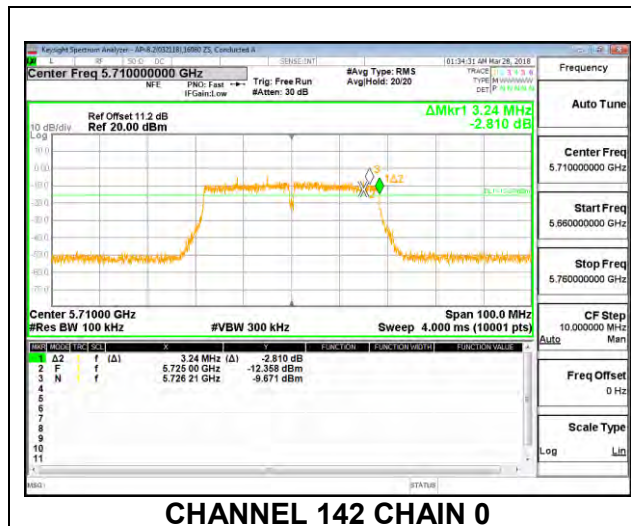
LOW CHANNEL



HIGH CHANNEL



CHANNEL 142



CHANNEL 142 CHAIN 0

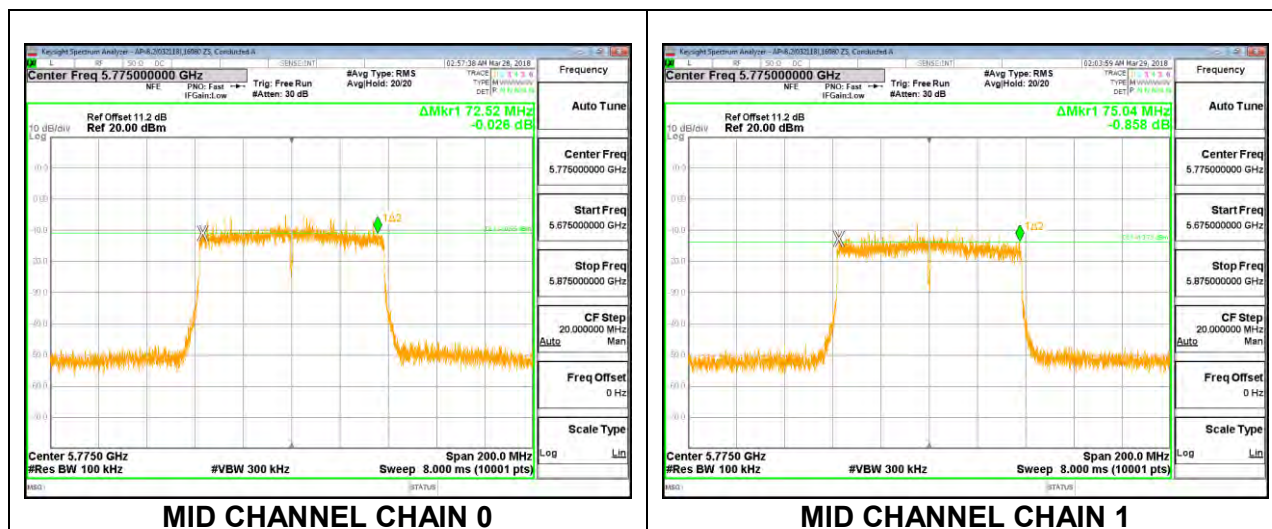


CHANNEL 142 CHAIN 1

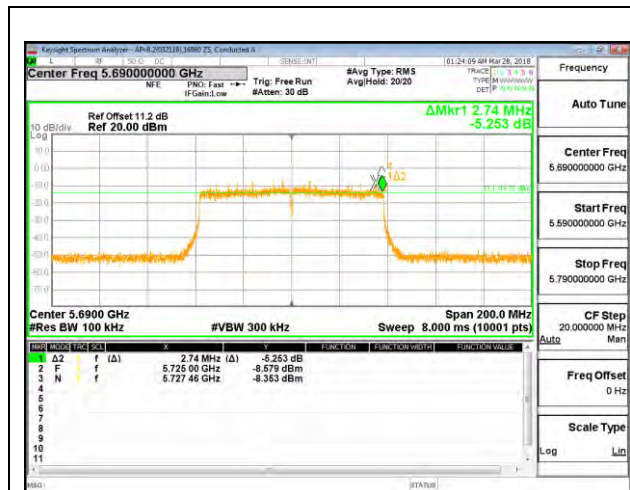
8.4.4. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
Mid	5775	72.520	75.040	0.5
138	5690	2.740	3.140	0.5

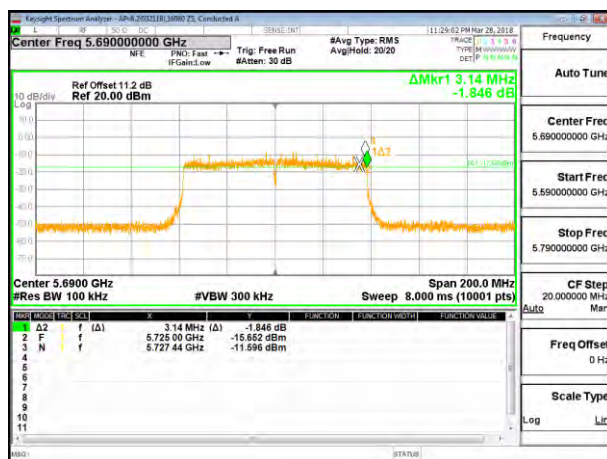
MID CHANNEL



CHANNEL 138



CHANNEL 138 CHAIN 0



CHANNEL 138 CHAIN 1

8.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz (pick the section that applies to your product)

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

Band 5.15-5.25 GHz

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in megahertz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

Band 5.25-5.35 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Bands 5.47-5.6 GHz and 5.65-5.725 GHz

The maximum conducted output power shall not exceed 250 mW or $11 + 10 \log_{10} B$, dBm, whichever is less. The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

The maximum e.i.r.p. shall not exceed 1.0 W or $17 + 10 \log_{10} B$, dBm, whichever is less. B is the 99% emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

Band 5.725-5.85 GHz

The maximum conducted output power shall not exceed 1 W. The power spectral density shall not exceed 30 dBm in any 500 kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) and for straddles channels KDB 789033 D02 v02r01, Section E.2.b (Method SA-1) was used. The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F.

DIRECTIONAL ANTENNA GAIN

For 2 TX:

Tx chains are uncorrelated for power and correlated for PSD due to the device supporting CDD in all MIMO modes. The directional gains are as follows:

Band (GHz)	Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)	Correlated Chains Directional Gain (dBi)
5.2	-3.6	-4.9	-4.20	-1.22
5.3	-3.6	-4.9	-4.20	-1.22
5.6	-4.7	-6.1	-5.34	-2.36
5.8	-3.4	-5.8	-4.44	-1.51

RESULTS

8.5.1. 802.11a MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	16.4460	-4.20	-1.22
Mid	5200	16.5190	-4.20	-1.22
High	5240	16.4670	-4.20	-1.22

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED eirp PSD Limit (dBm/1MHz)	PSD Limit (dBm/1MHz)
Low	5180	24.00	22.16	26.36	24.00	11.00	10.00	11.00
Mid	5200	24.00	22.18	26.38	24.00	11.00	10.00	11.00
High	5240	24.00	22.17	26.37	24.00	11.00	10.00	11.00

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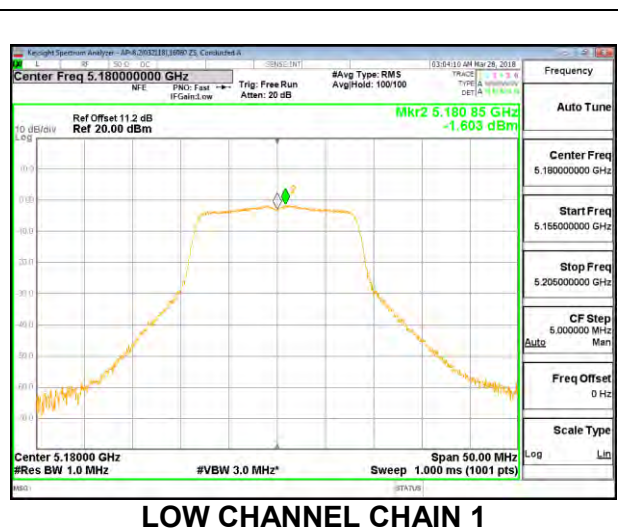
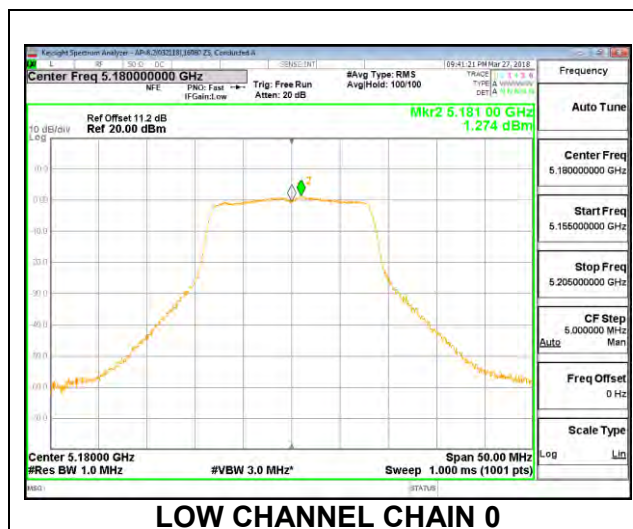
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	11.07	8.16	12.86	24.00	-11.14
Mid	5200	11.09	8.63	13.04	24.00	-10.96
High	5240	11.13	8.31	12.96	24.00	-11.04

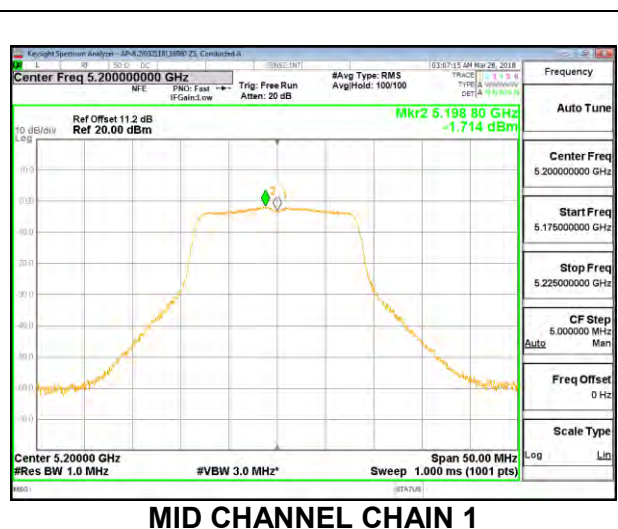
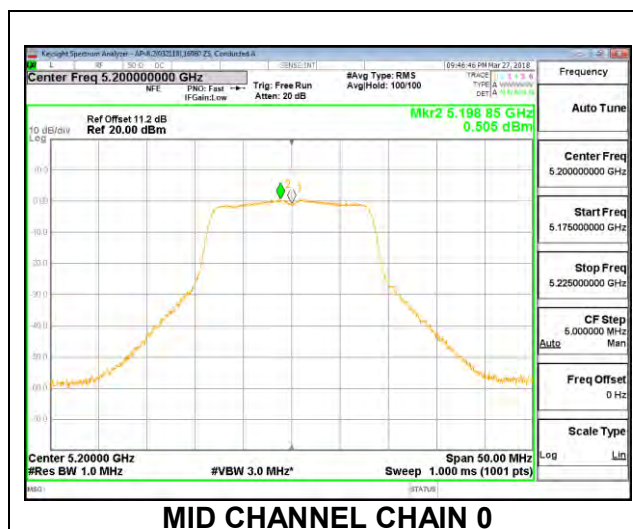
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	1.27	-1.60	3.08	11.00	-7.92
Mid	5200	0.51	-1.71	2.55	11.00	-8.45
High	5240	0.68	-1.61	2.70	11.00	-8.30

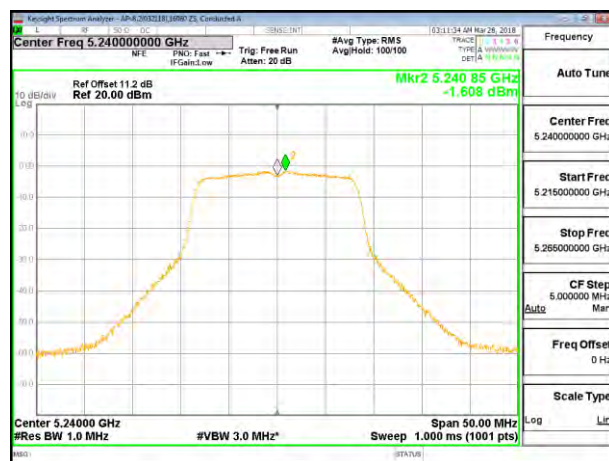
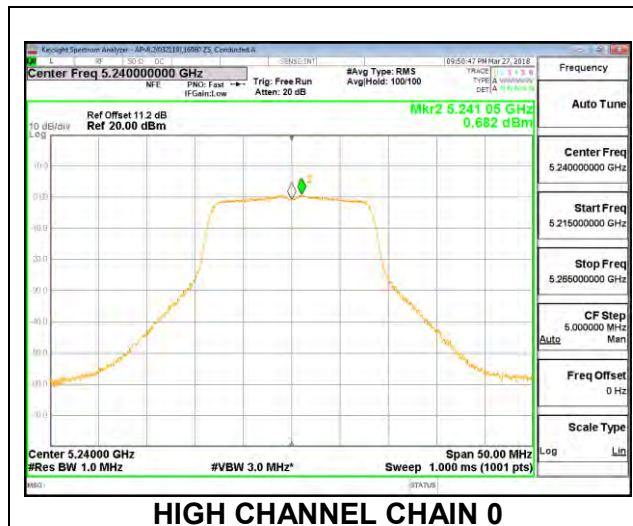
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5180	17.6240	-4.20	-1.22
Mid	5200	17.7370	-4.20	-1.22
High	5240	17.7360	-4.20	-1.22

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5180	24.00	22.46	26.66	24.00	11.00	10.00	11.00
Mid	5200	24.00	22.49	26.69	24.00	11.00	10.00	11.00
High	5240	24.00	22.49	26.69	24.00	11.00	10.00	11.00

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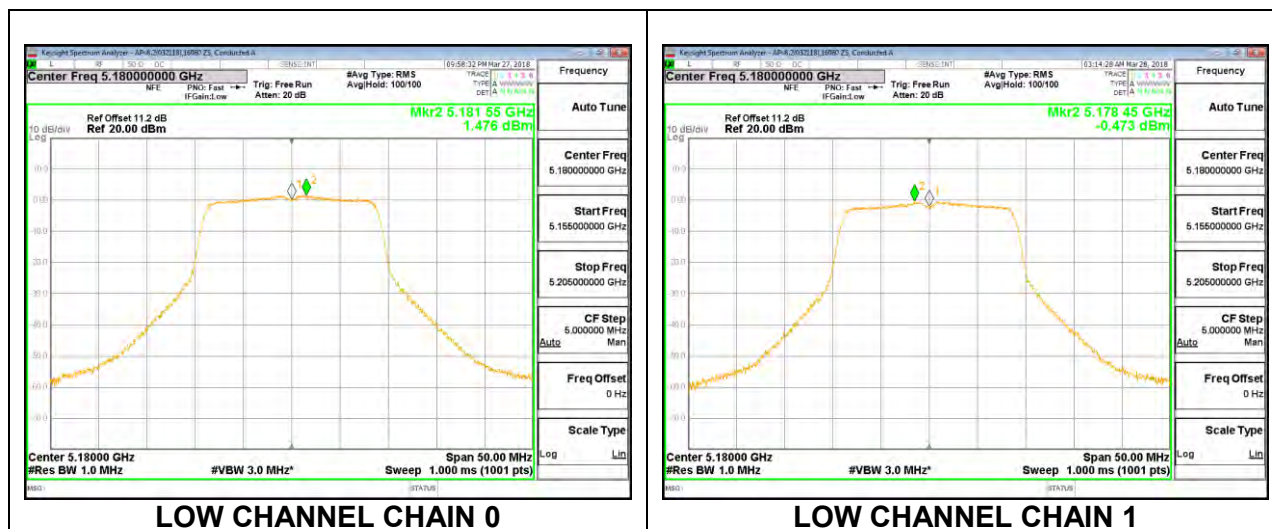
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	11.77	10.03	14.00	24.00	-10.00
Mid	5200	11.85	10.04	14.05	24.00	-9.95
High	5240	11.78	9.92	13.96	24.00	-10.04

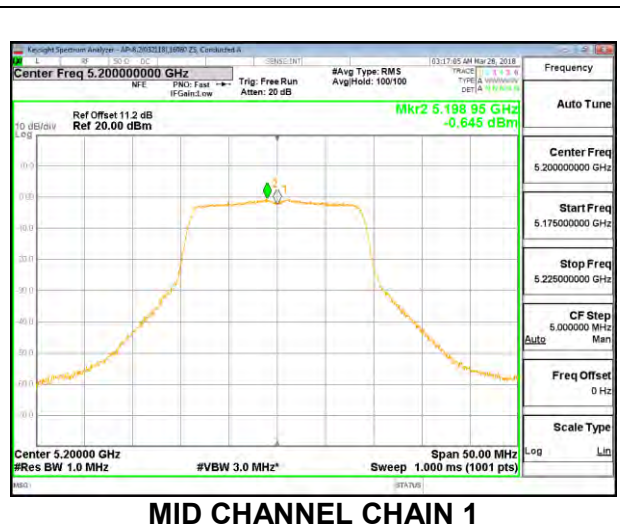
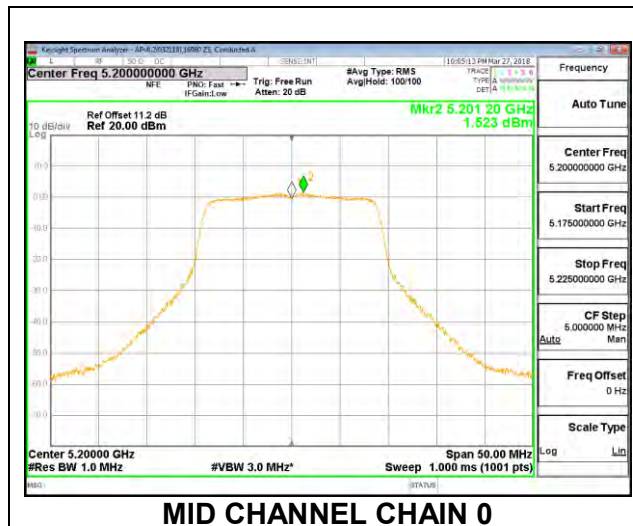
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	1.48	-0.47	3.72	11.00	-7.28
Mid	5200	1.52	-0.65	3.68	11.00	-7.32
High	5240	1.20	-0.70	3.46	11.00	-7.54

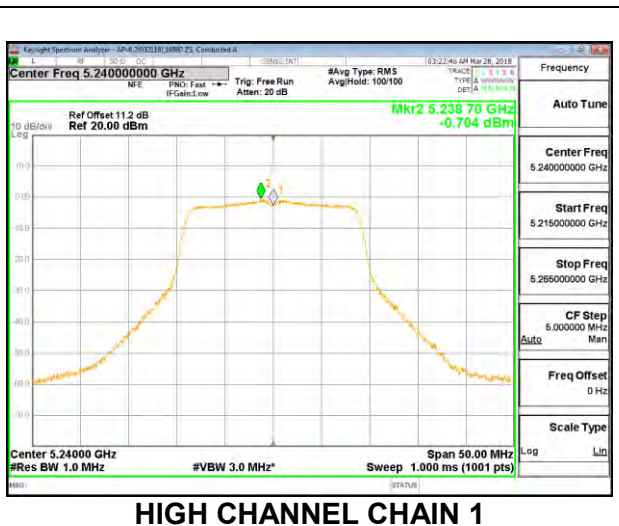
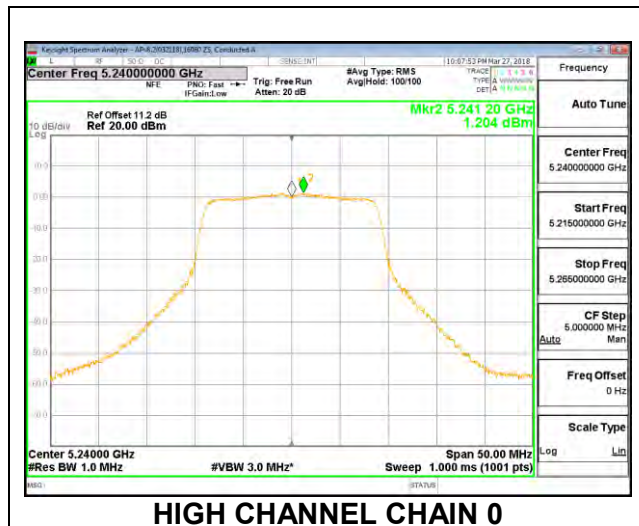
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5190	36.2870	-4.20	-1.22
High	5230	36.1890	-4.20	-1.22

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	24.00	23.00	27.20	24.00	11.00	10.00	11.00
High	5230	24.00	23.00	27.20	24.00	11.00	10.00	11.00

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd Power & PSD
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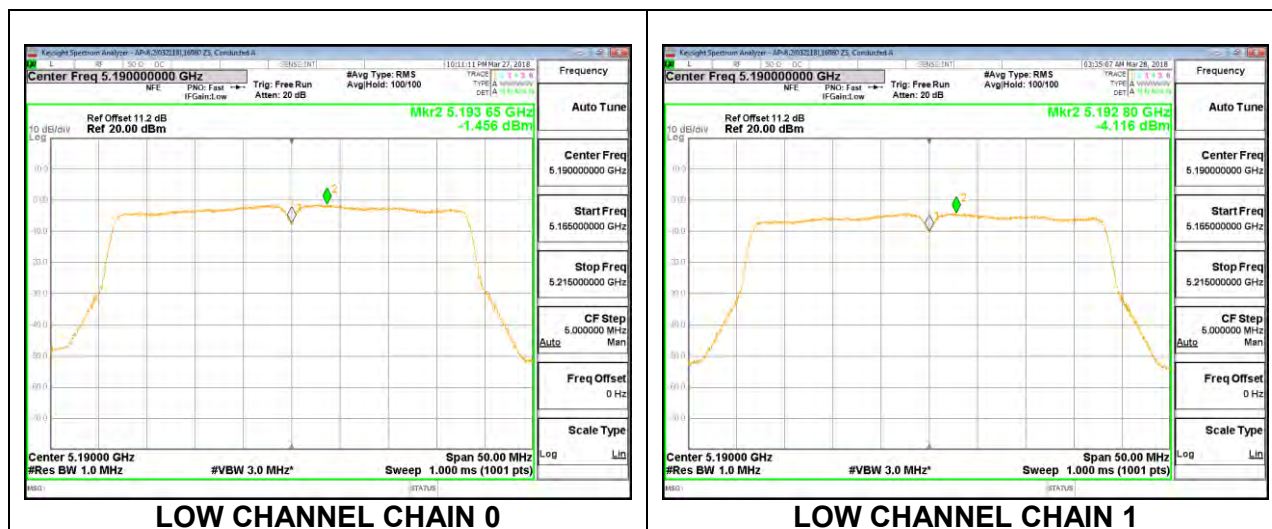
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	11.72	9.05	13.60	24.00	-10.40
High	5230	12.02	8.95	13.76	24.00	-10.24

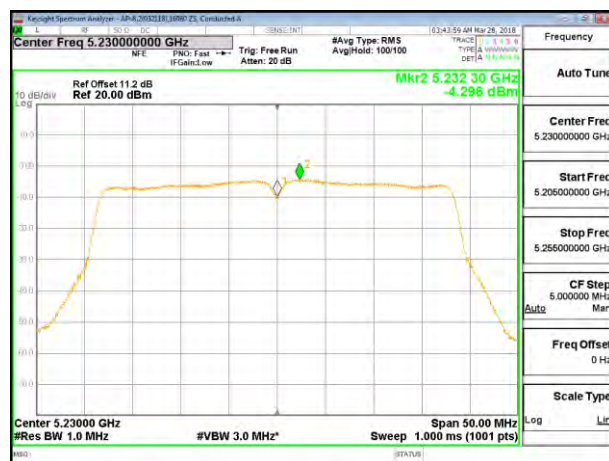
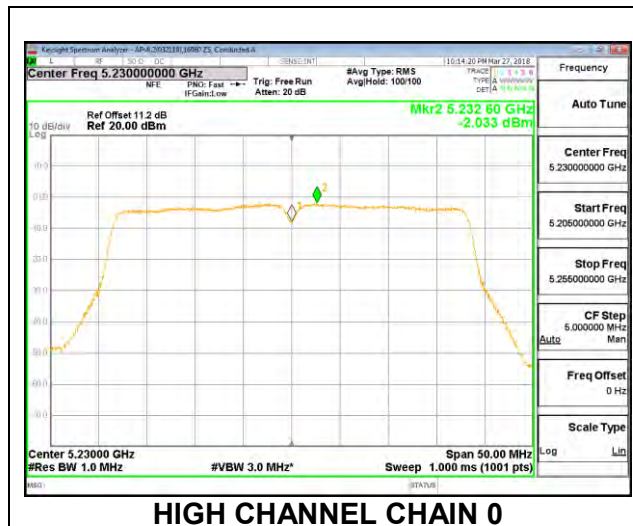
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-1.46	-4.12	0.74	11.00	-10.26
High	5230	-2.03	-4.30	0.31	11.00	-10.69

LOW CHANNEL



HIGH CHANNEL



8.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5210	75.8280	-4.20	-1.22

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	24.00	23.00	27.20	24.00	11.00	10.00	11.00

Duty Cycle CF (dB)	0.62	Included in Calculations of Corr'd Power & PSD
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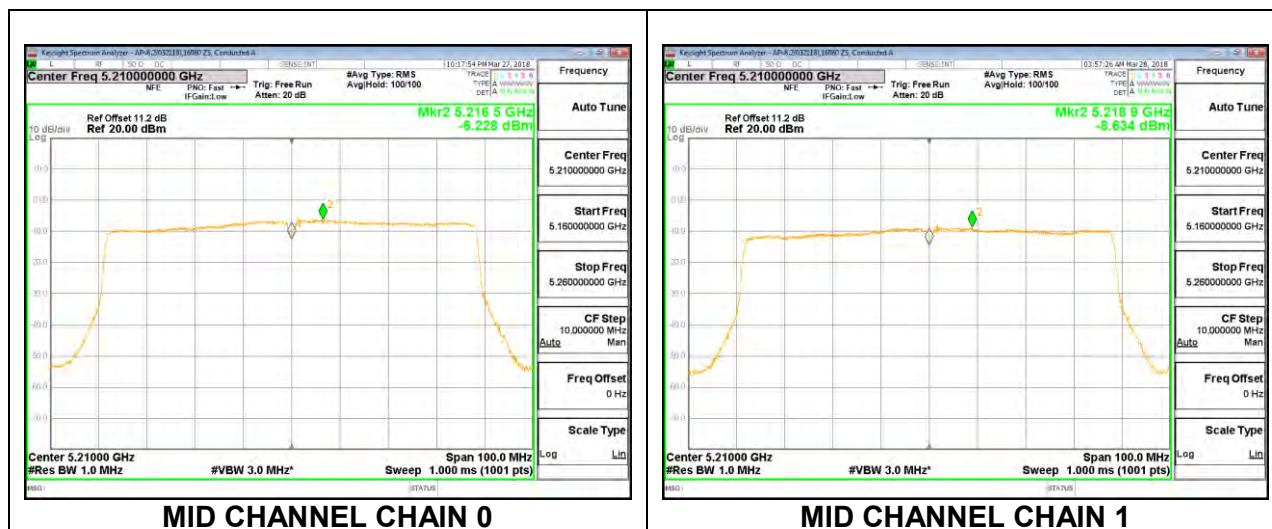
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	10.52	8.03	12.46	24.00	-11.54

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-6.23	-8.63	-3.64	11.00	-14.64

MID CHANNEL



8.5.5. 802.11a MODE IN THE 5.3 GHz BAND

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	5260	21.00	-4.20	-1.22	24.00	11.00
Mid	5300	21.50	-4.20	-1.22	24.00	11.00
High	5320	20.90	-4.20	-1.22	24.00	11.00

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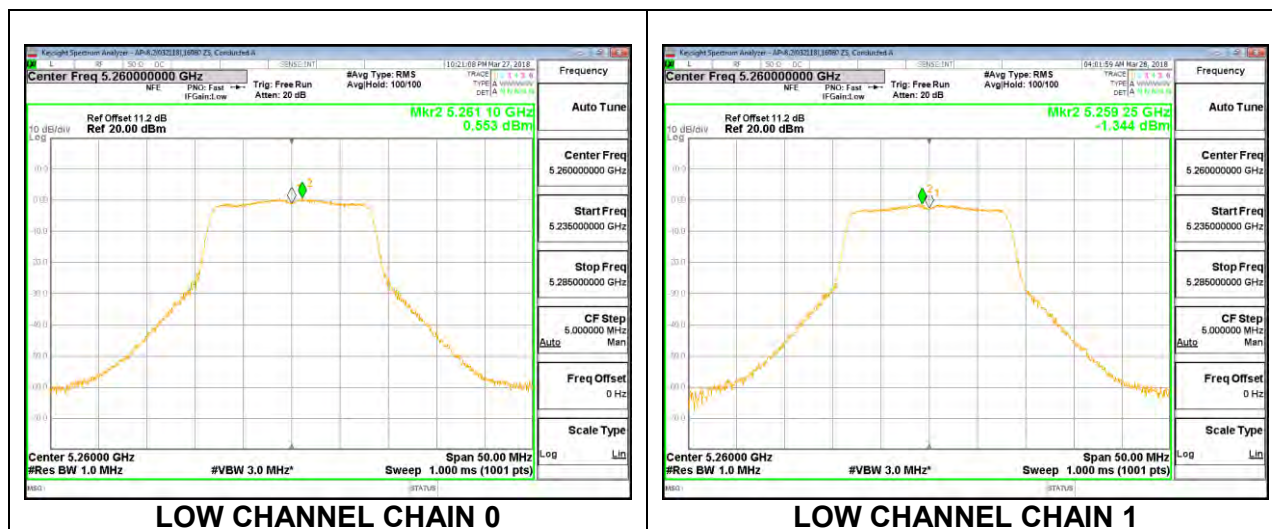
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	10.88	8.43	12.84	24.00	-11.16
Mid	5300	10.61	8.56	12.72	24.00	-11.28
High	5320	11.08	8.57	13.01	24.00	-10.99

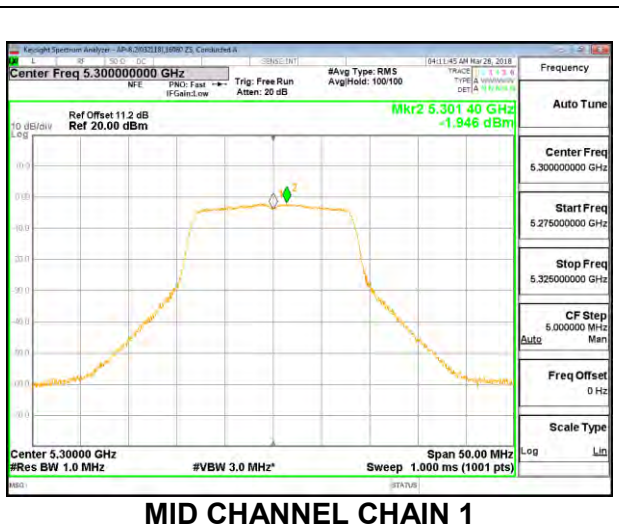
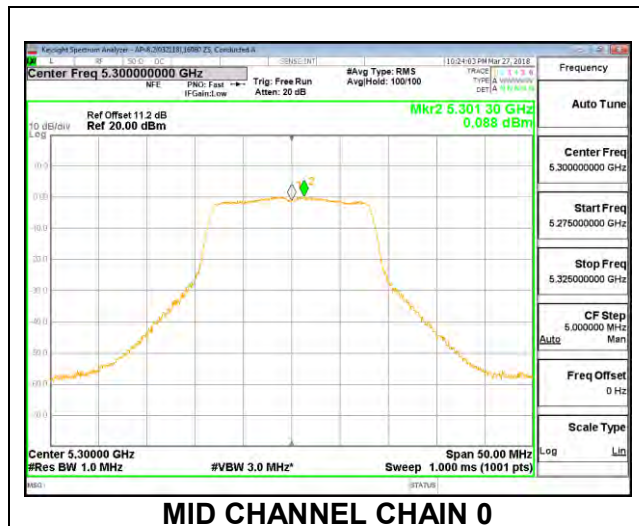
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	0.55	-1.34	2.72	11.00	-8.28
Mid	5300	0.09	-1.95	2.20	11.00	-8.80
High	5320	0.23	-2.15	2.21	11.00	-8.79

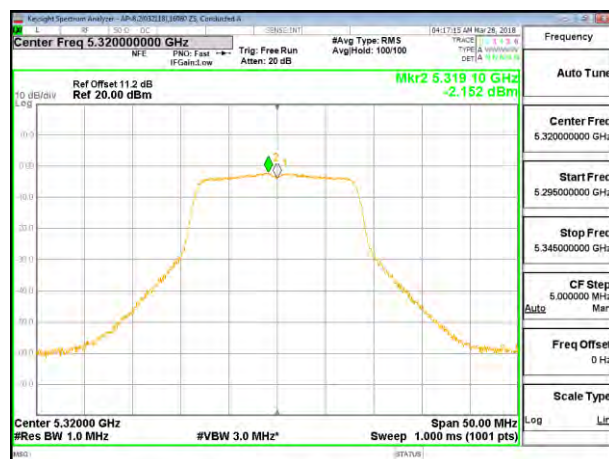
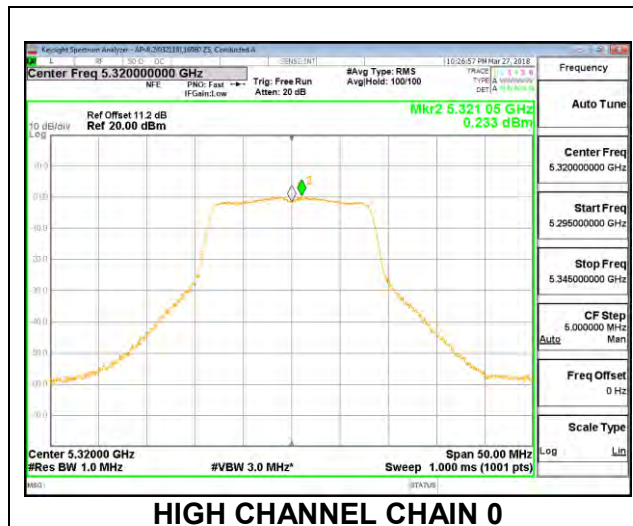
LOW CHANNEL



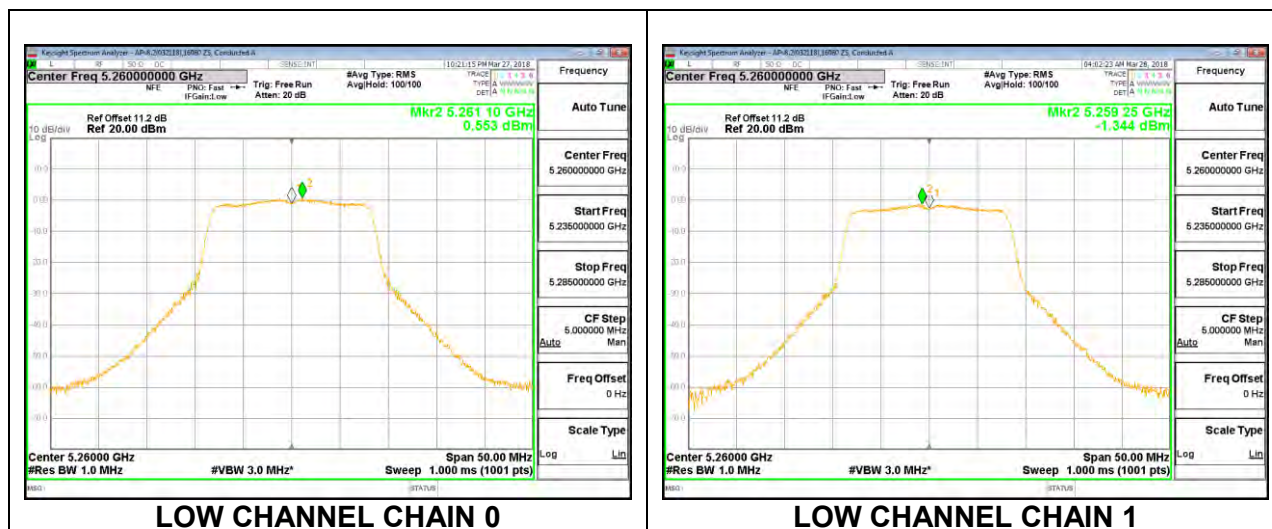
MID CHANNEL



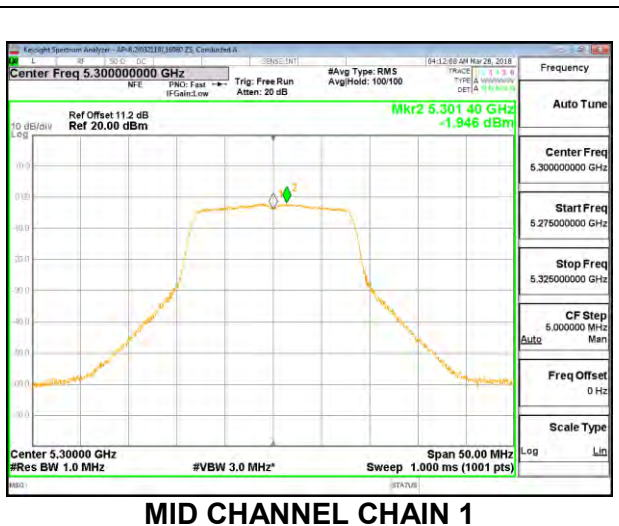
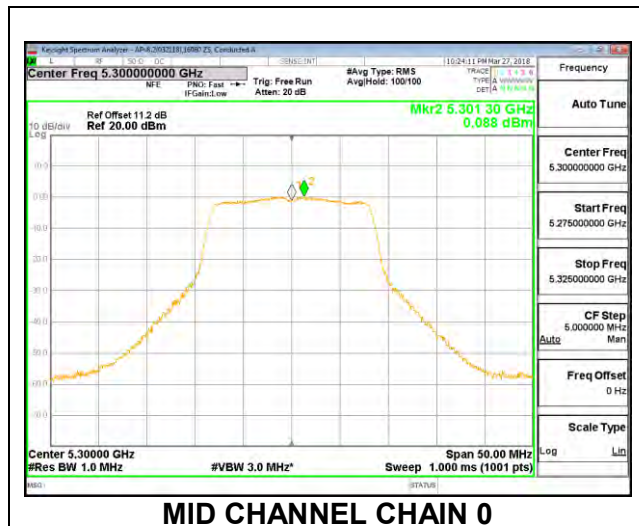
HIGH CHANNEL



LOW CHANNEL



MID CHANNEL



High Channel Chain 0

Center Freq 5.320000000 GHz
 Ref Off 11.2 dB
 Ref 20.00 dBm
 Mkr2 5.321 05 GHz
 0.233 dBm
 Span 50.000 MHz
 #Res BW 1.0 MHz
 #VBW 3.0 MHz*
 Sweep 1.000 ms (1001 pts)

High Channel Chain 1

Center Freq 5.320000000 GHz
 Ref Off 11.2 dB
 Ref 20.00 dBm
 Mkr2 5.319 10 GHz
 -2.152 dBm
 Span 50.000 MHz
 #Res BW 1.0 MHz
 #VBW 3.0 MHz*
 Sweep 1.000 ms (1001 pts)

8.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

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	5260	22.15	-4.20	-1.22	24.00	11.00
Mid	5300	22.30	-4.20	-1.22	24.00	11.00
High	5320	22.35	-4.20	-1.22	24.00	11.00

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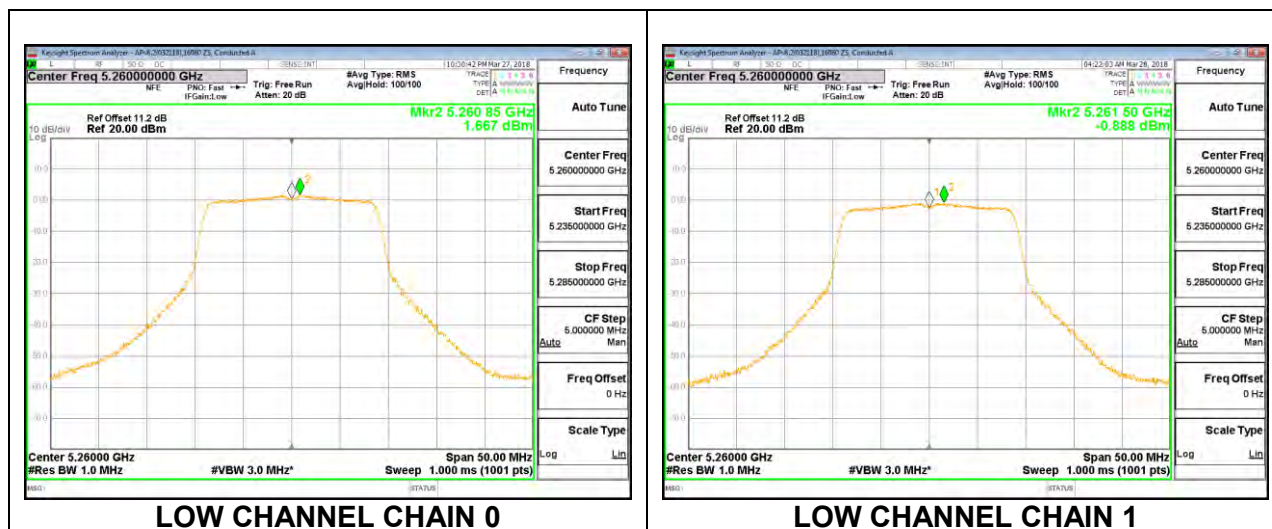
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	12.07	9.38	13.94	24.00	-10.06
Mid	5300	12.01	9.49	13.94	24.00	-10.06
High	5320	11.98	9.60	13.96	24.00	-10.04

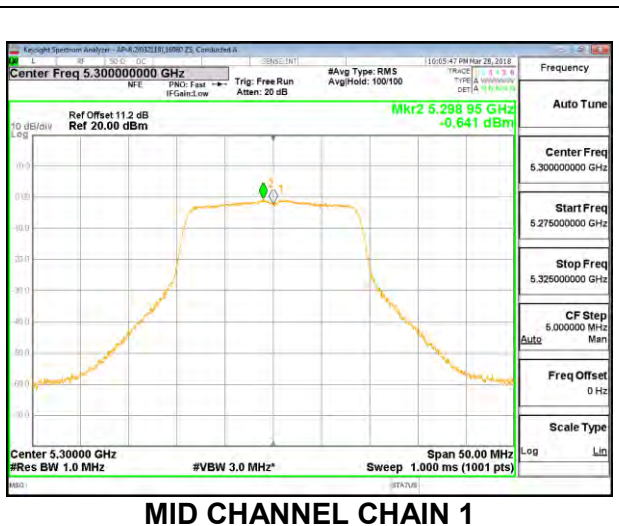
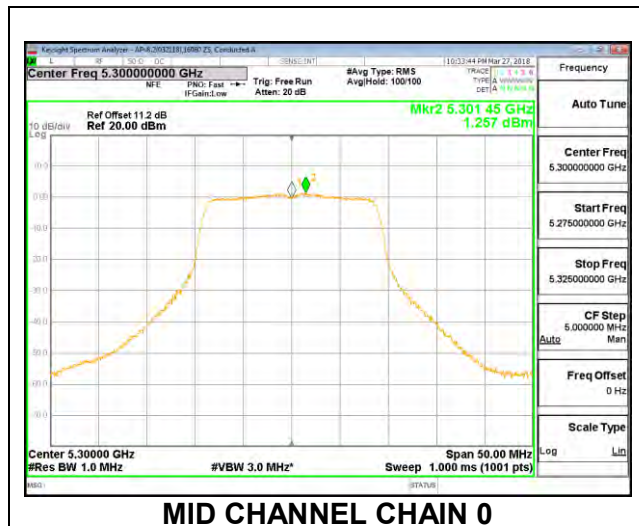
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	1.67	-0.89	3.69	11.00	-7.31
Mid	5300	1.26	-0.64	3.52	11.00	-7.48
High	5320	1.29	-0.74	3.50	11.00	-7.50

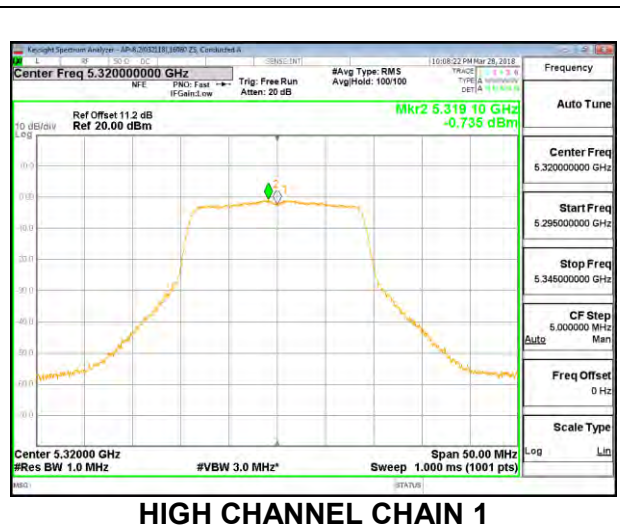
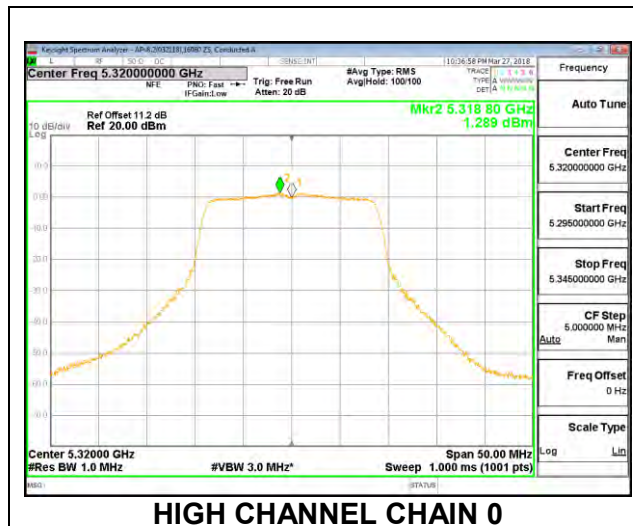
LOW CHANNEL



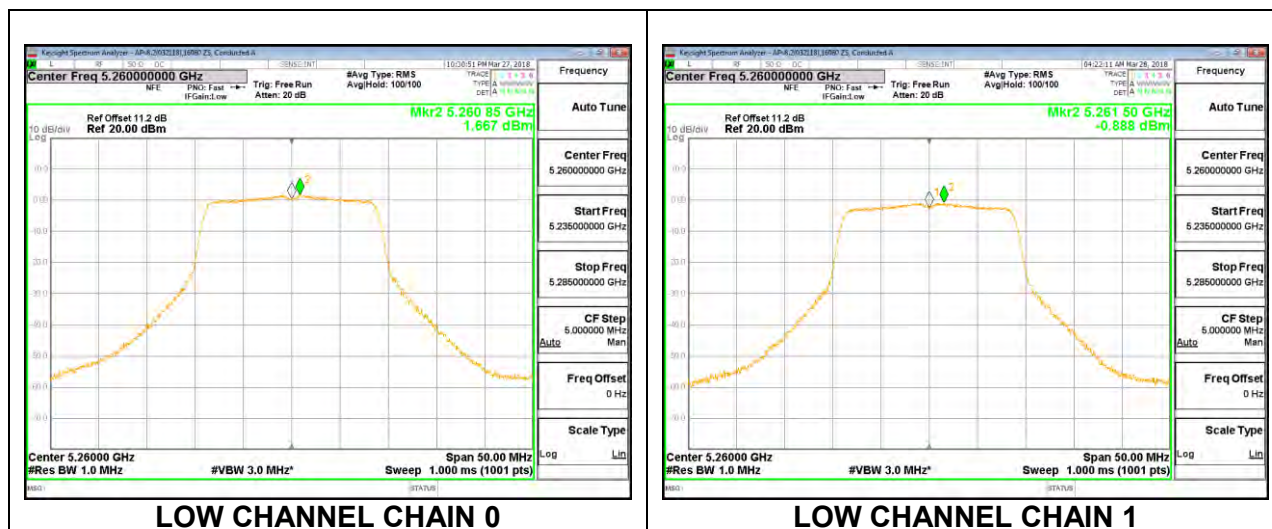
MID CHANNEL



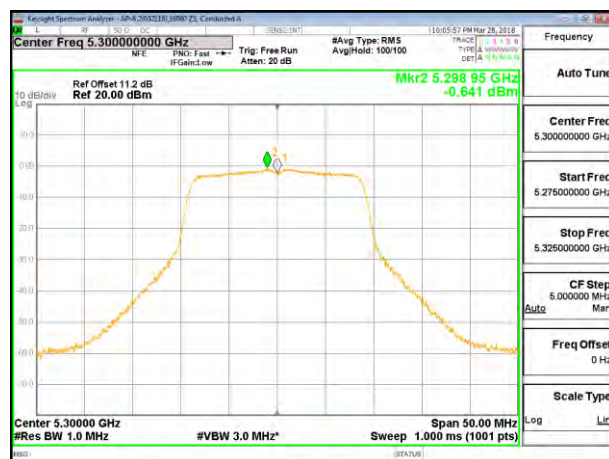
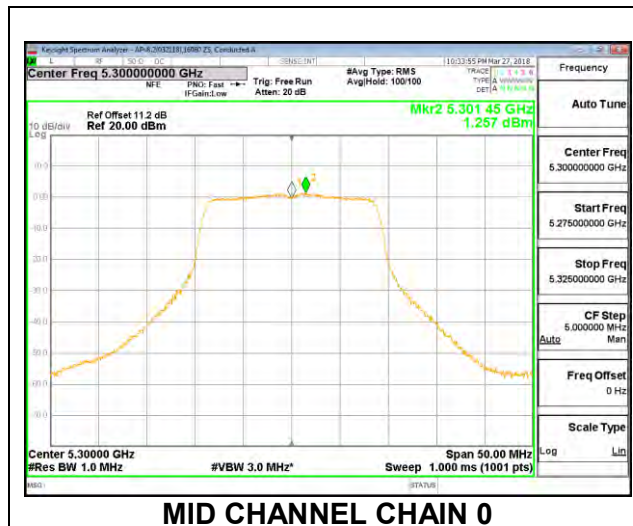
HIGH CHANNEL



LOW CHANNEL



MID CHANNEL



High Channel Chain 0

Center Freq 5.320000000 GHz

Ref Offset 11.2 dB

Ref 20.00 dBm

Mkr2 5.318 80 GHz

-1.289 dBm

Center 5.320000 GHz

#Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Span 50.000 MHz

Auto Tune

Center Freq 5.320000000 GHz

Start Freq 5.295000000 GHz

Stop Freq 5.345000000 GHz

CF Step 5.000000 MHz

Freq Offset 0 Hz

Scale Type

Log Lin

High Channel Chain 0

High Channel Chain 1

Center Freq 5.320000000 GHz

Ref Offset 11.2 dB

Ref 20.00 dBm

Mkr2 5.319 10 GHz

-0.735 dBm

Center 5.320000 GHz

#Res BW 1.0 MHz

#VBW 3.0 MHz

Sweep 1.000 ms (1001 pts)

Span 50.000 MHz

Auto Tune

Center Freq 5.320000000 GHz

Start Freq 5.295000000 GHz

Stop Freq 5.345000000 GHz

CF Step 5.000000 MHz

Freq Offset 0 Hz

Scale Type

Log Lin

High Channel Chain 1

8.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

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	5270	41.00	-4.20	-1.22	24.00	11.00
High	5310	41.00	-4.20	-1.22	24.00	11.00

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd PSD
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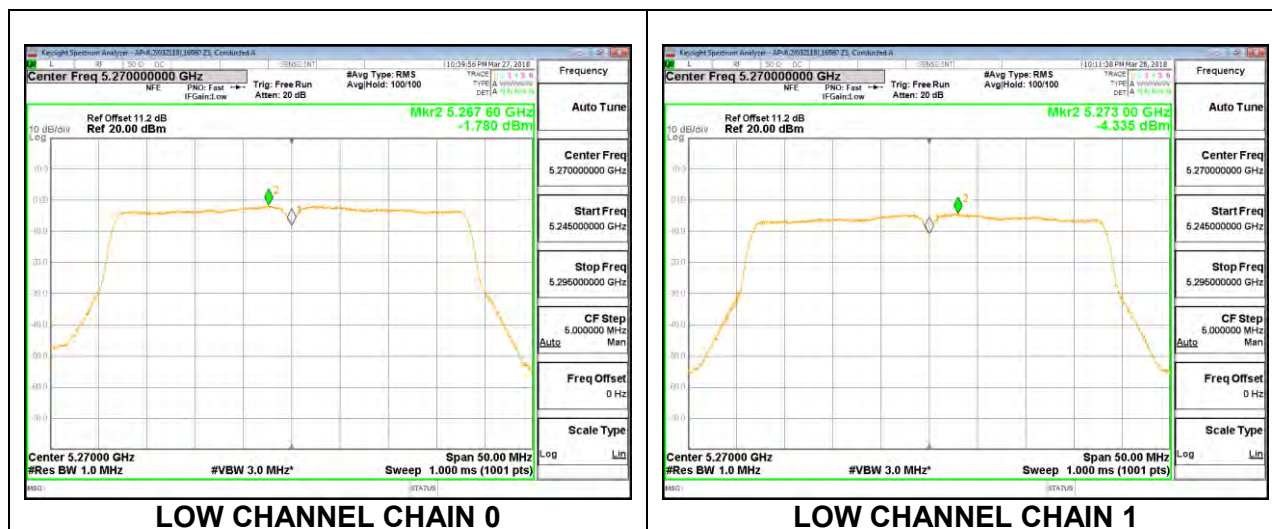
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	11.86	9.11	13.71	24.00	-10.29
High	5310	11.96	9.03	13.75	24.00	-10.25

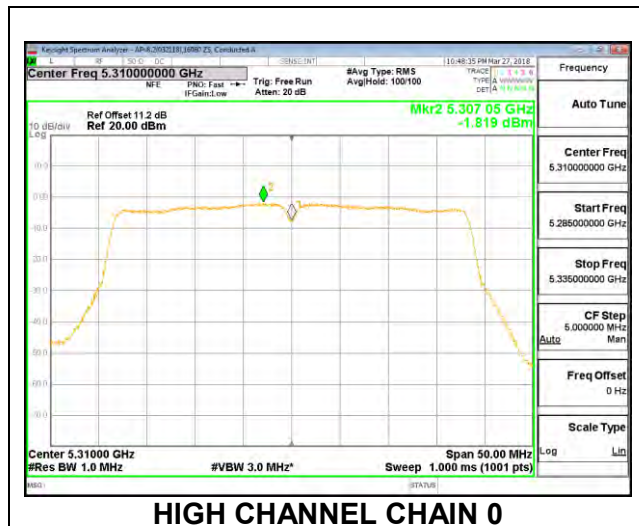
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	-1.78	-4.34	0.46	11.00	-10.54
High	5310	-1.82	-4.30	0.44	11.00	-10.56

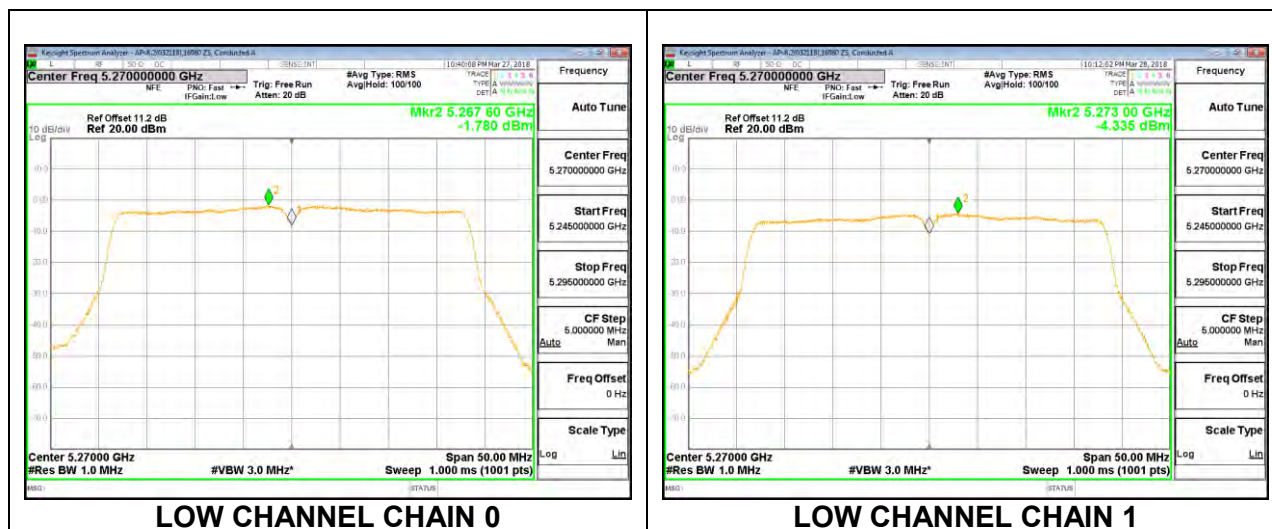
LOW CHANNEL



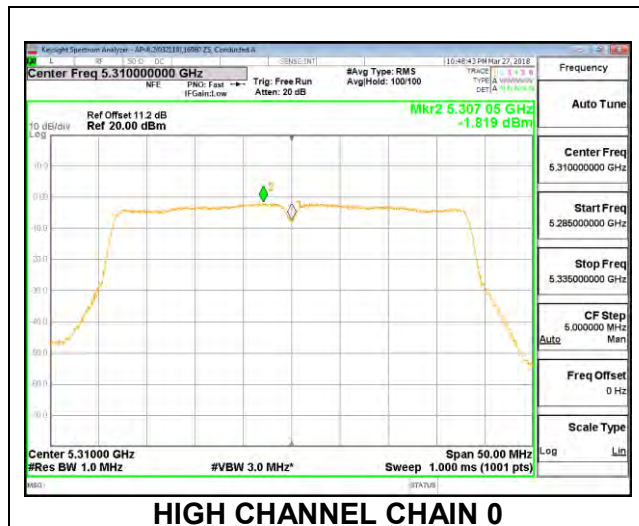
HIGH CHANNEL



LOW CHANNEL



HIGH CHANNEL



8.5.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

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)
Mid	5290	83.60	-4.20	-1.22	24.00	11.00

Duty Cycle CF (dB)	0.62	Included in Calculations of Corr'd PSD
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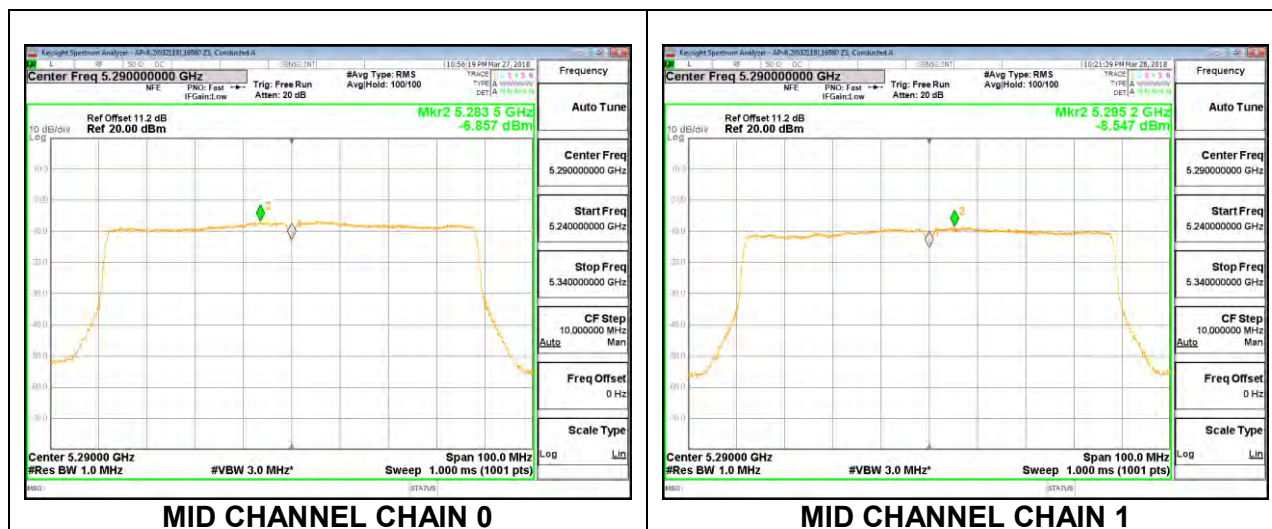
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	9.90	7.88	12.02	24.00	-11.98

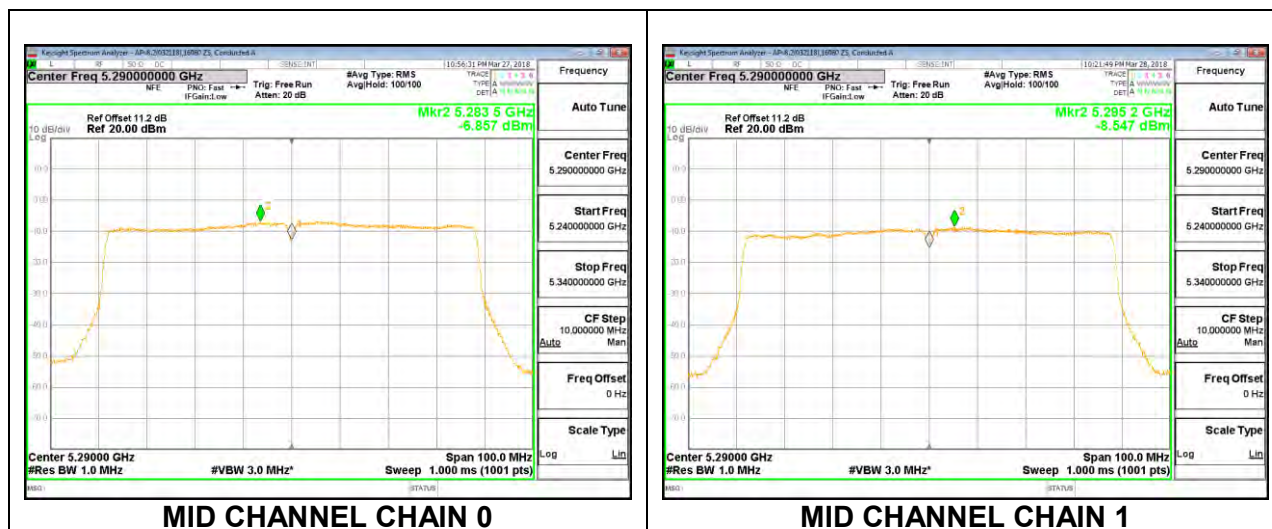
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-6.86	-8.55	-3.99	11.00	-14.99

MID CHANNEL



MID CHANNEL



8.5.9. 802.11a MODE IN THE 5.6 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Direction Gain for PSD (dBi)
Low	5500	21.05	16.5270	-5.34	-2.36
Mid	5580	20.95	16.4230	-5.34	-2.36
High	5700	21.65	16.4640	-5.34	-2.36
144	5720	21.95	16.5530	-5.34	-2.36

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)	ISED PSD Limit (dBm/1MHz)
Low	5500	24.00	23.18	29.18	23.18	11.00	11.00
Mid	5580	24.00	23.15	29.15	23.15	11.00	11.00
High	5700	24.00	23.17	29.17	23.17	11.00	11.00
144	5720	24.00	23.19	29.19	23.19	11.00	11.00

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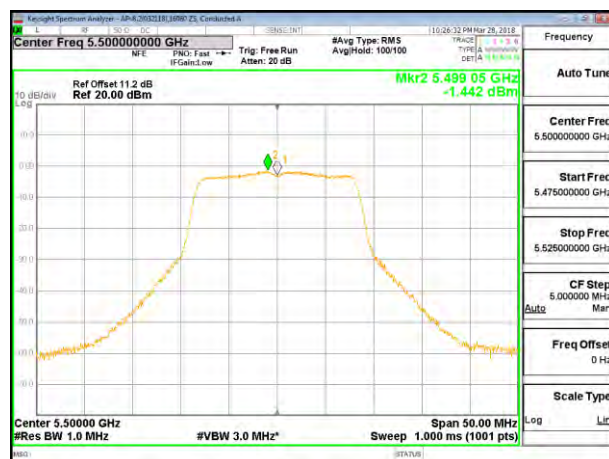
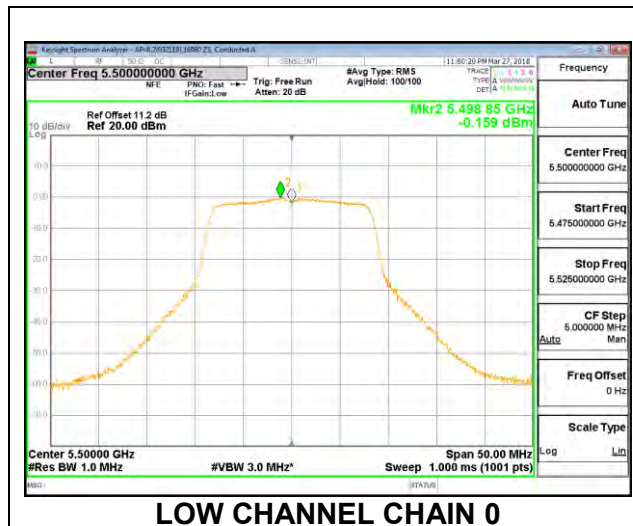
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	10.01	8.49	12.33	23.18	-10.86
Mid	5580	9.72	8.10	12.00	23.15	-11.16
High	5700	9.85	8.19	12.11	23.17	-11.06
144	5720	9.82	8.26	12.12	23.19	-11.07

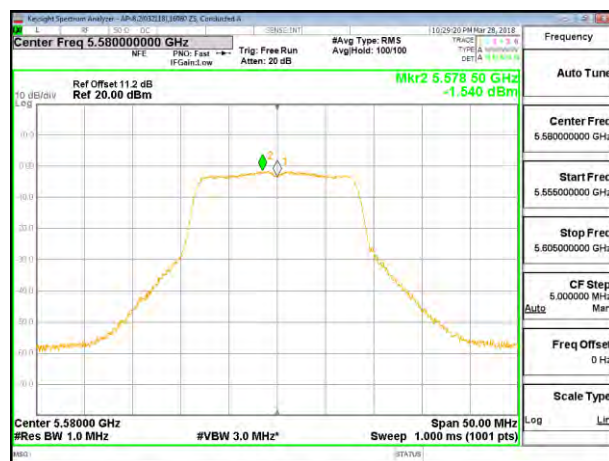
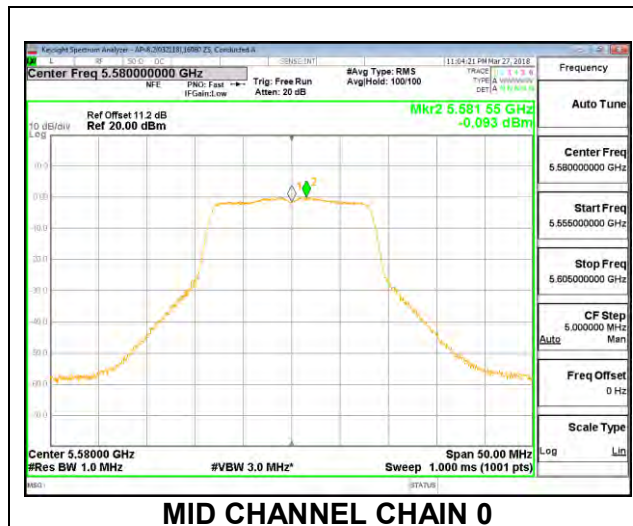
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	-0.159	-1.442	2.257	11.00	-8.74
Mid	5580	-9.300	-1.540	-0.867	11.00	-11.87
High	5700	0.459	-1.087	2.765	11.00	-8.24
144	5720	0.299	-2.702	2.063	11.00	-8.94

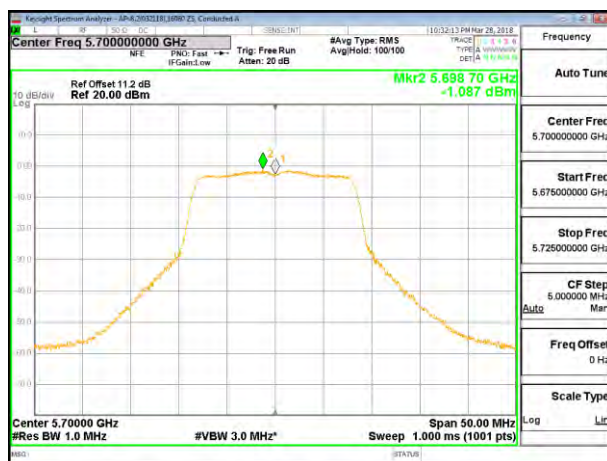
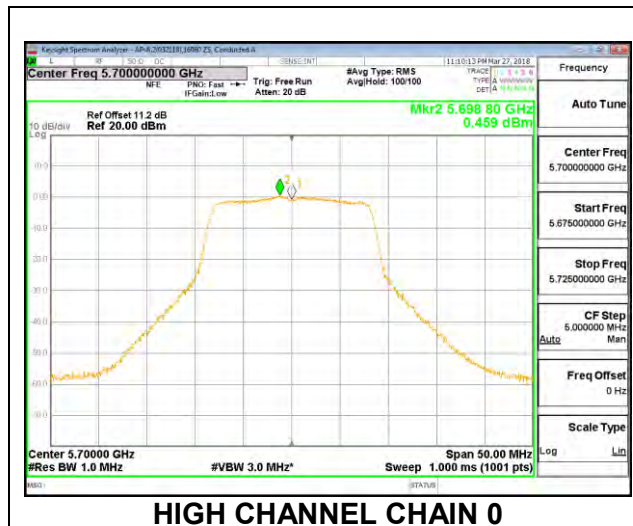
LOW CHANNEL



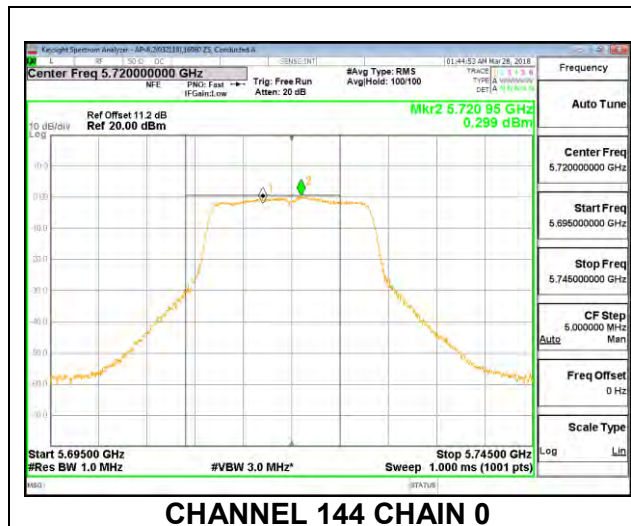
MID CHANNEL



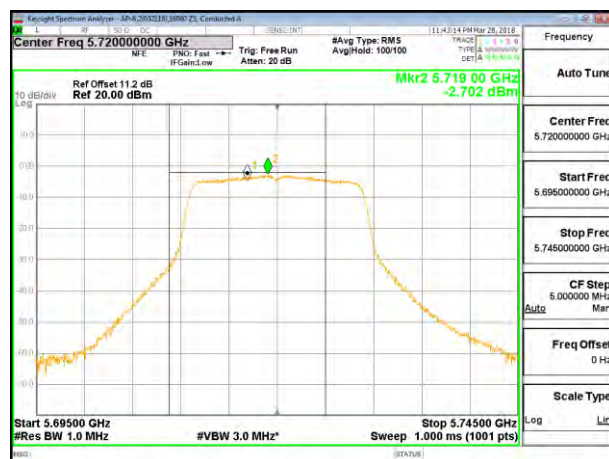
HIGH CHANNEL



CHANNEL 144



CHANNEL 144 CHAIN 0



CHANNEL 144 CHAIN 1

8.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	21.95	17.6830	-5.34	-2.36
Mid	5580	22.45	17.6810	-5.34	-2.36
High	5700	22.35	17.6340	-5.34	-2.36
144	5720	22.05	17.6980	-5.34	-2.36

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.48	29.48	23.48	11.00	11.00	11.00
Mid	5580	24.00	23.48	29.48	23.48	11.00	11.00	11.00
High	5700	24.00	23.46	29.46	23.46	11.00	11.00	11.00
144	5720	24.00	23.48	29.48	23.48	11.00	11.00	11.00

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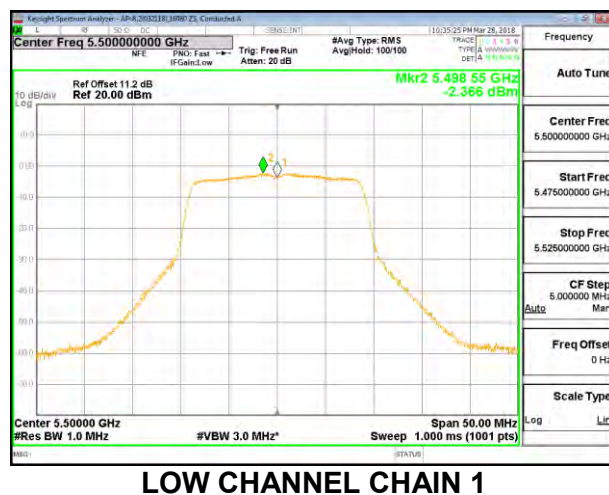
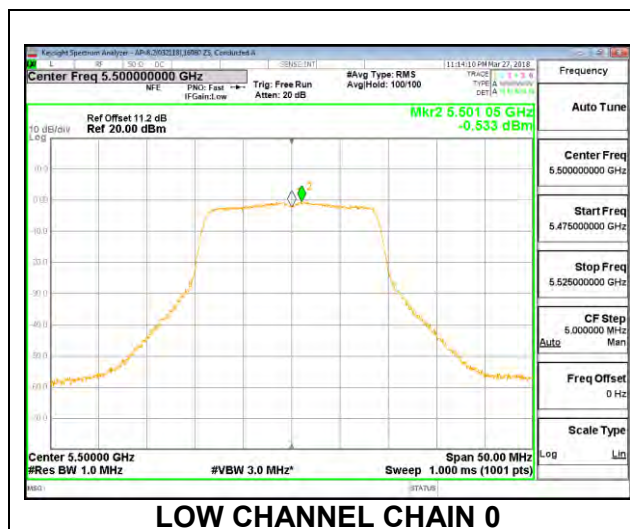
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	9.52	8.17	11.91	23.48	-11.57
Mid	5580	9.50	8.12	11.87	23.48	-11.60
High	5700	9.51	7.86	11.77	23.46	-11.69
144	5720	9.50	7.85	11.86	23.48	-11.62

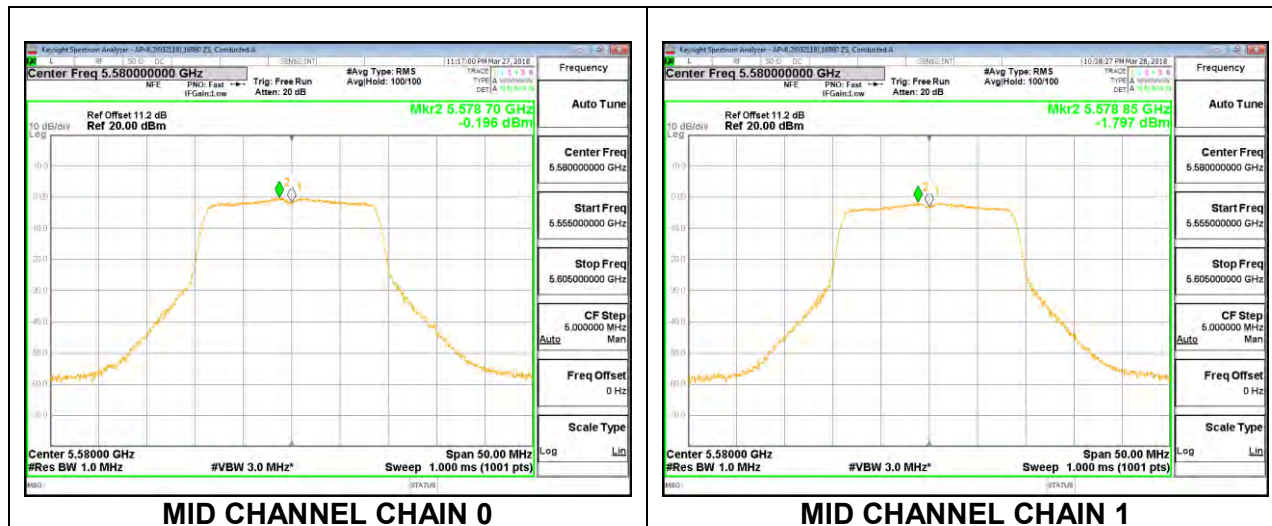
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	-0.533	-2.366	1.757	11.00	-9.24
Mid	5580	-0.196	-1.797	2.187	11.00	-8.81
High	5700	0.027	-2.226	2.155	11.00	-8.84
144	5720	-0.247	-2.942	1.722	11.00	-9.28

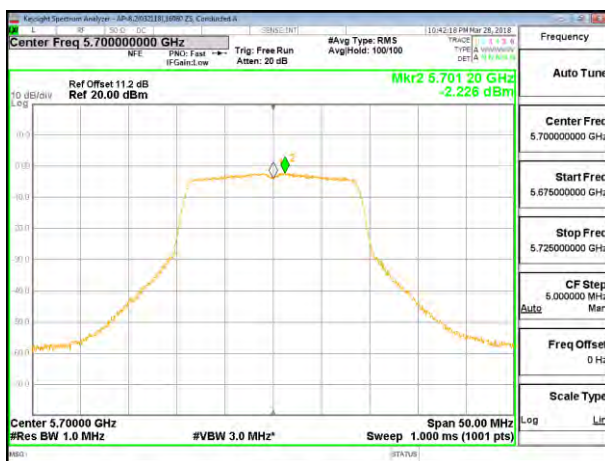
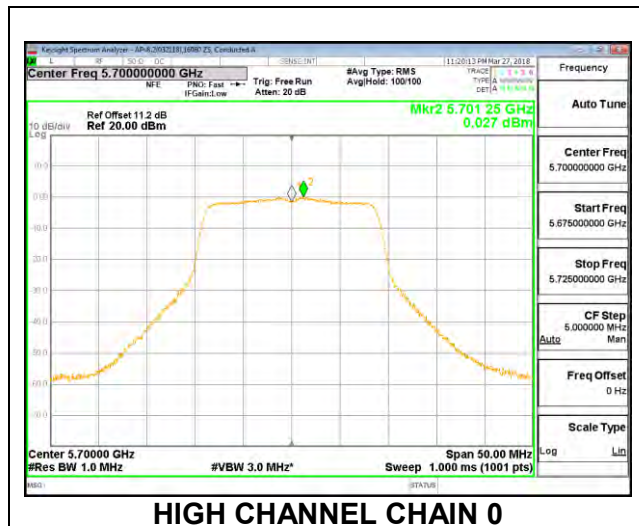
LOW CHANNEL



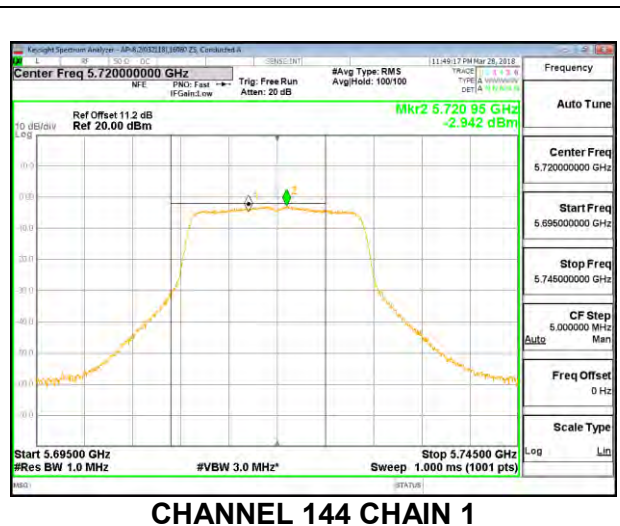
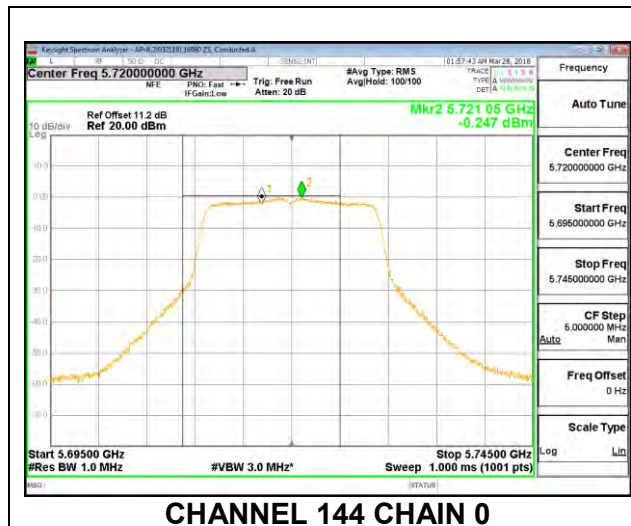
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5510	41.00	36.2970	-5.34	-2.36
Mid	5550	41.30	36.2890	-5.34	-2.36
High	5670	40.80	36.4780	-5.34	-2.36
142	5710	41.00	36.3390	-5.34	-2.36

Limits

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

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd Power & PSD
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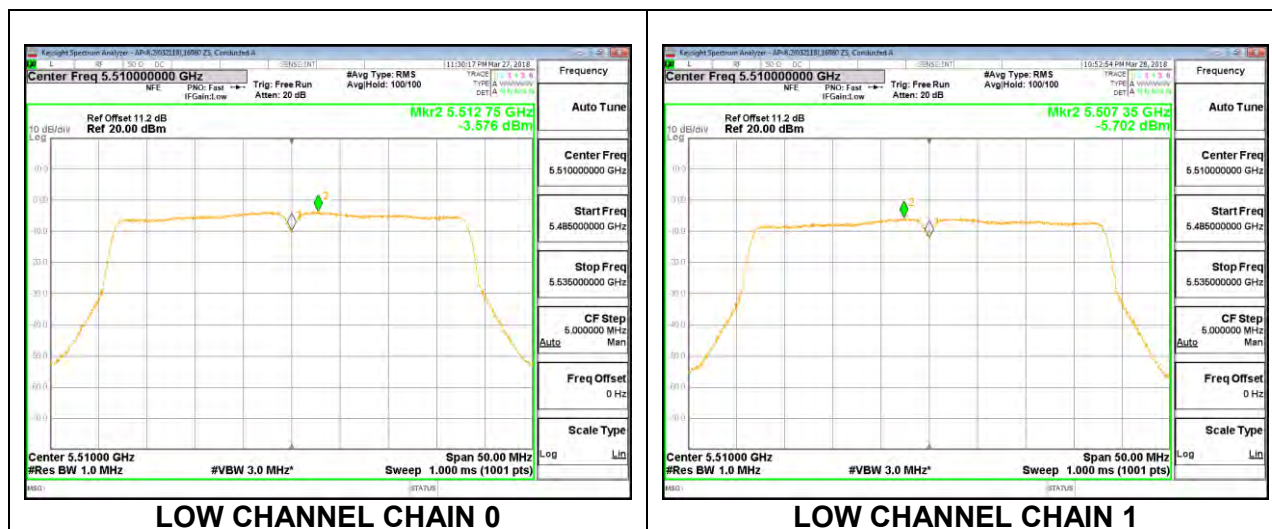
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	9.79	7.85	11.94	24.00	-12.06
Mid	5550	9.77	8.00	11.98	24.00	-12.02
High	5670	9.92	7.90	12.04	24.00	-11.96
142	5710	9.69	8.16	12.32	24.00	-11.68

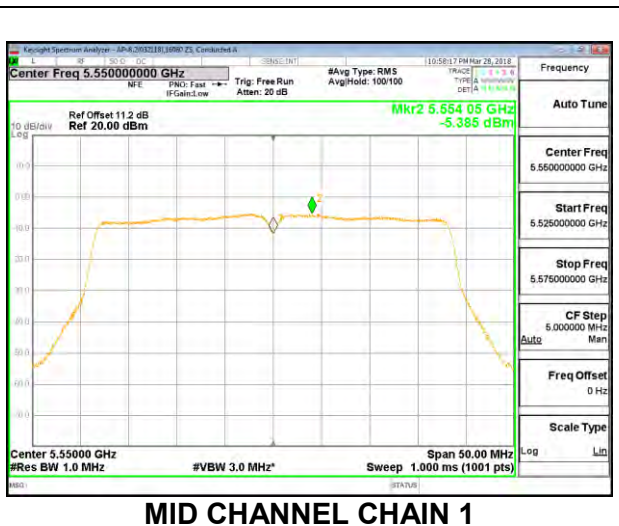
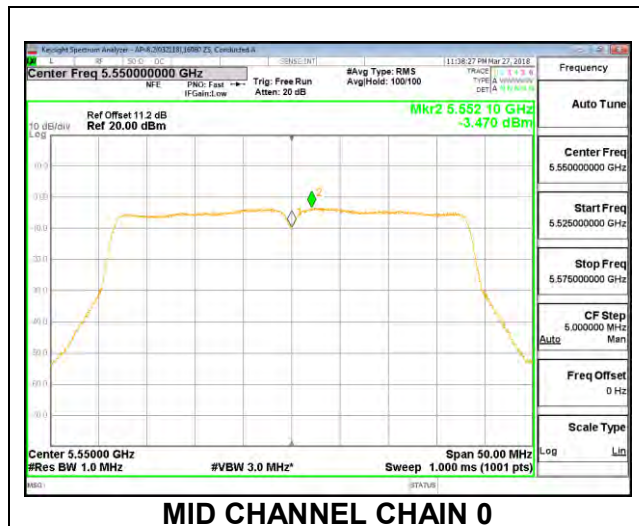
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	-3.58	-5.70	-1.18	11.00	-12.18
Mid	5550	-3.47	-5.39	-0.99	11.00	-11.99
High	5670	-2.95	-5.04	-0.54	11.00	-11.54
142	5710	-3.41	-5.40	-0.96	11.00	-11.96

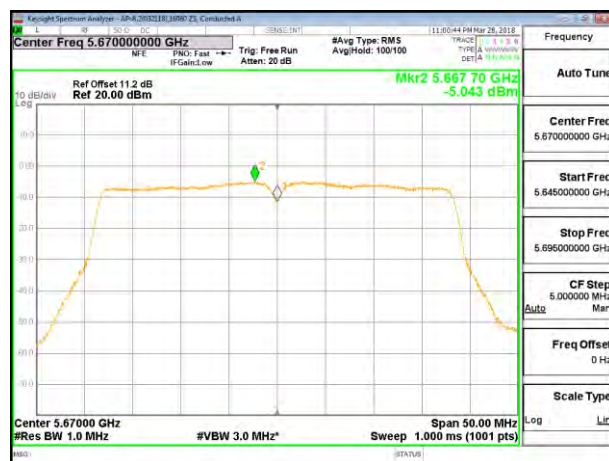
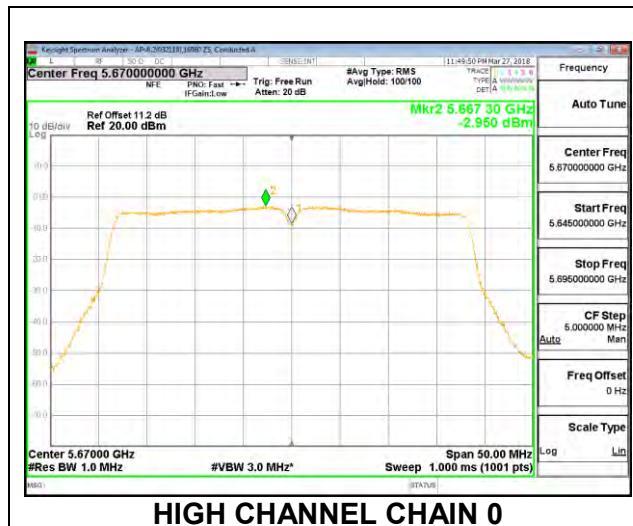
LOW CHANNEL



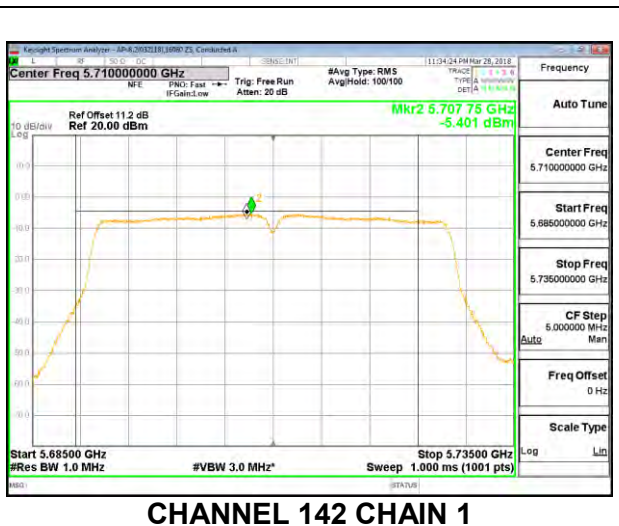
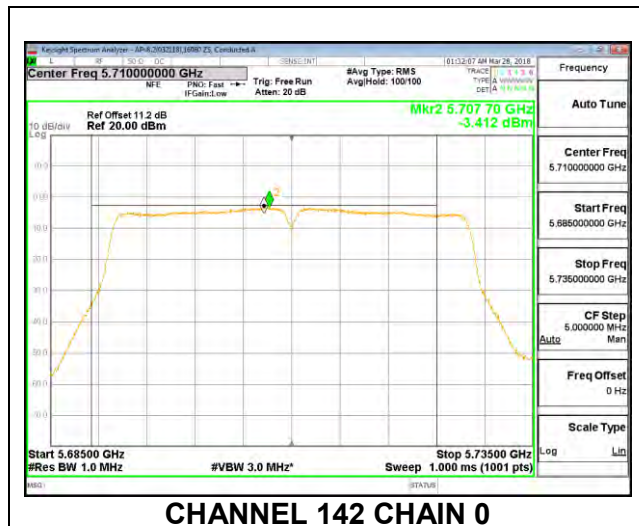
MID CHANNEL



HIGH CHANNEL



CHANNEL 142



8.5.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	83.20	76.3040	-5.34	-2.36
High	5610	83.40	76.1470	-5.34	-2.36
138	5690	83.40	15.8520	-5.34	-2.36

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	23.00	29.00	23.00	11.00	11.00	11.00

Duty Cycle CF (dB)	0.62	Included in Calculations of Corr'd Power & PSD
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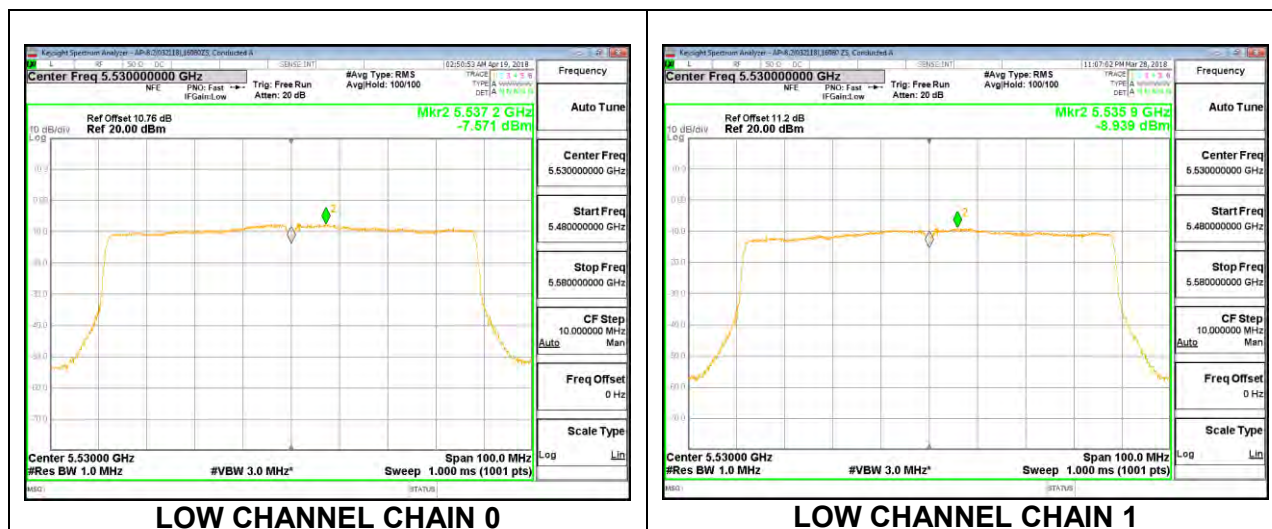
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	9.37	7.96	11.73	24.00	-12.27
High	5610	9.07	7.60	11.41	24.00	-12.59
138	5690	9.15	7.85	12.18	23.00	-10.82

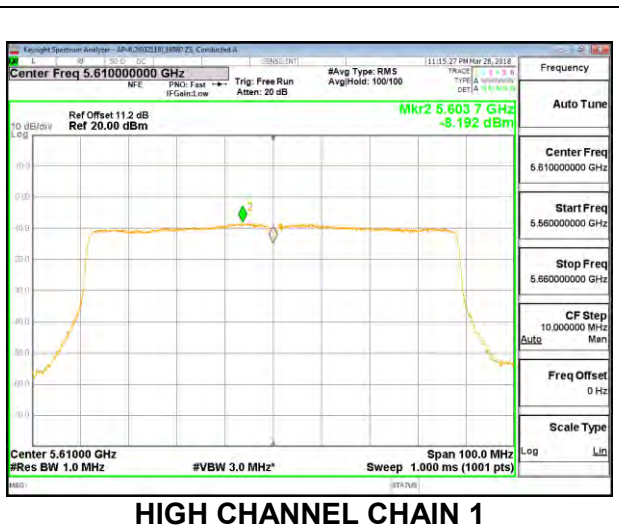
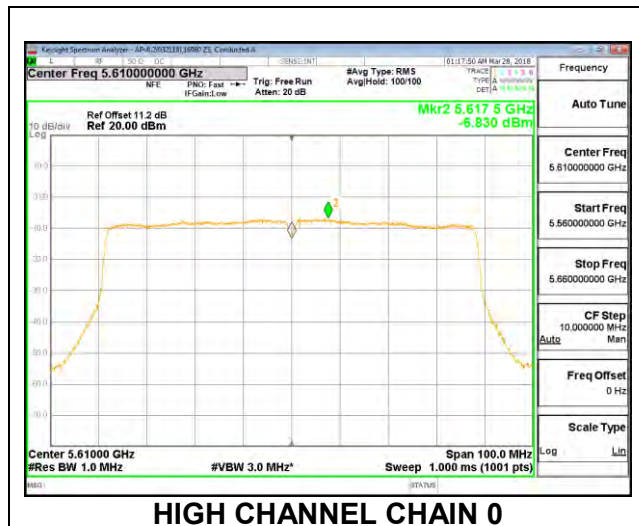
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-7.571	-8.939	-4.571	11.00	-15.57
High	5610	-6.830	-8.192	-3.828	11.00	-14.83
138	5690	-6.842	-8.429	-3.933	11.00	-14.93

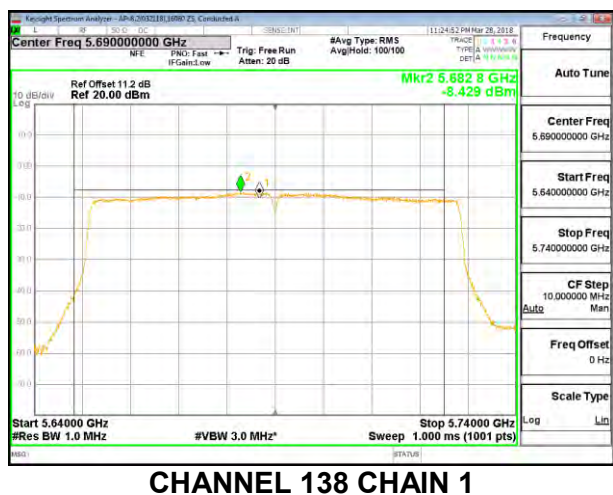
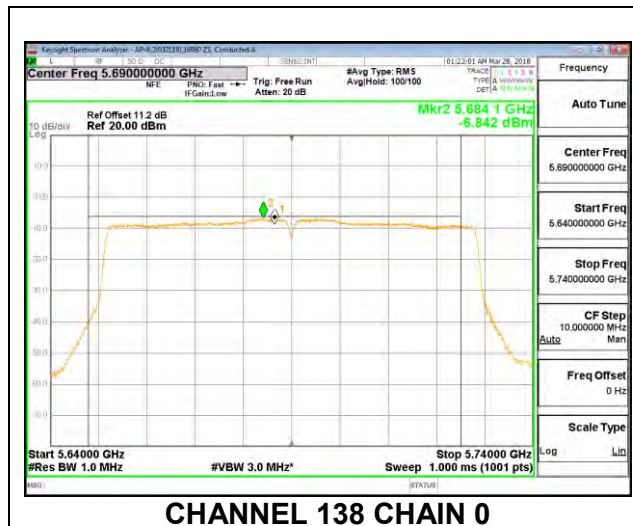
LOW CHANNEL



HIGH CHANNEL



CHANNEL 138



8.5.13. 802.11a MODE IN THE 5.8 GHz BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5745	-4.44	-1.51	30.00	30.00
Mid	5785	-4.44	-1.51	30.00	30.00
High	5825	-4.44	-1.51	30.00	30.00

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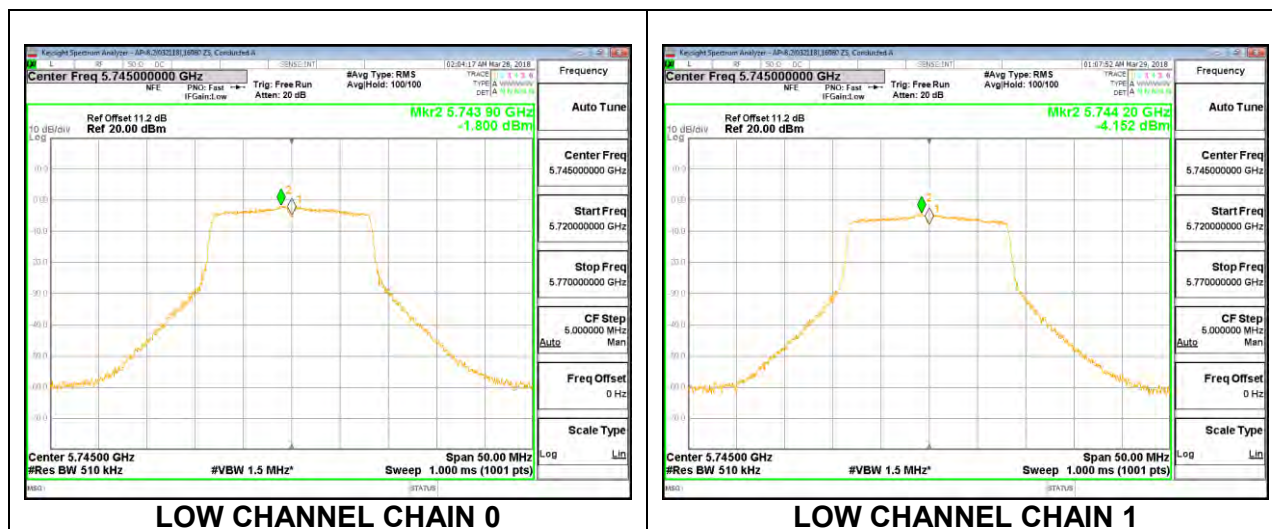
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	11.43	8.72	13.29	30.00	-16.71
Mid	5785	11.36	8.40	13.14	30.00	-16.86
High	5825	10.76	8.58	12.82	30.00	-17.18

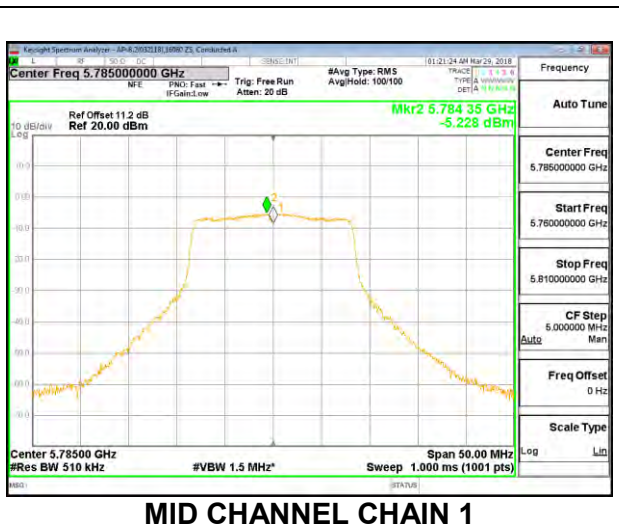
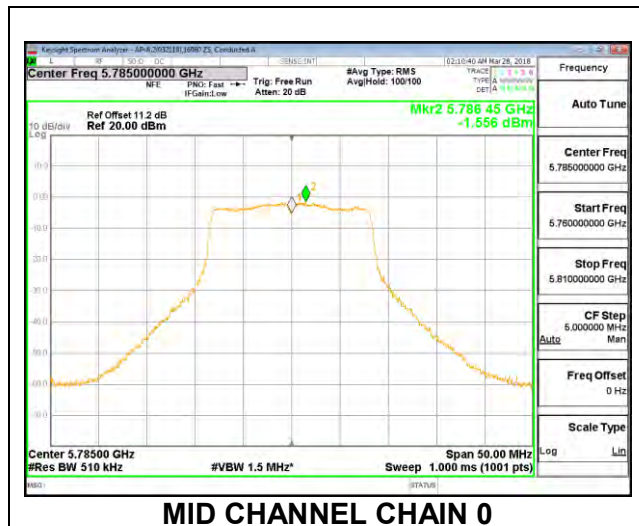
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	-1.800	-4.152	0.192	30.00	-29.81
Mid	5785	-1.556	-5.228	-0.005	30.00	-30.00
High	5825	-1.763	-4.749	0.006	30.00	-29.99

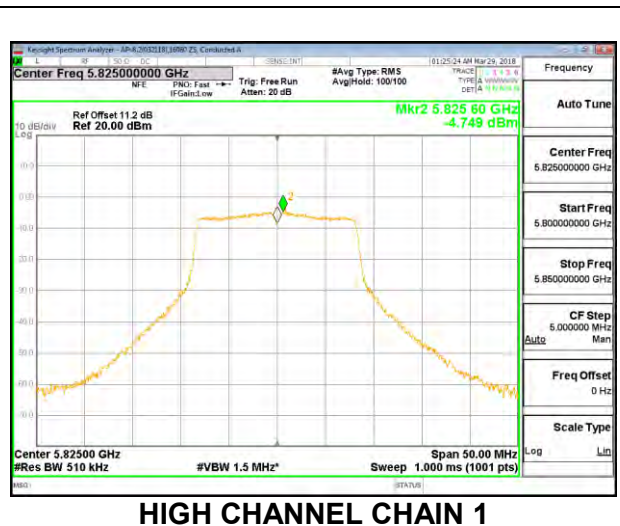
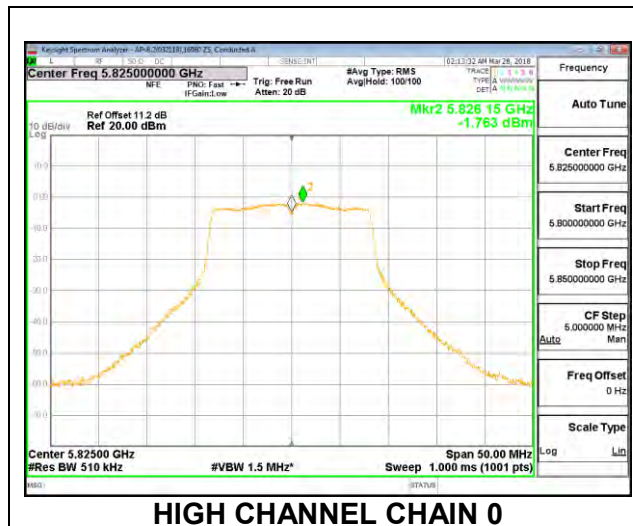
LOW CHANNEL



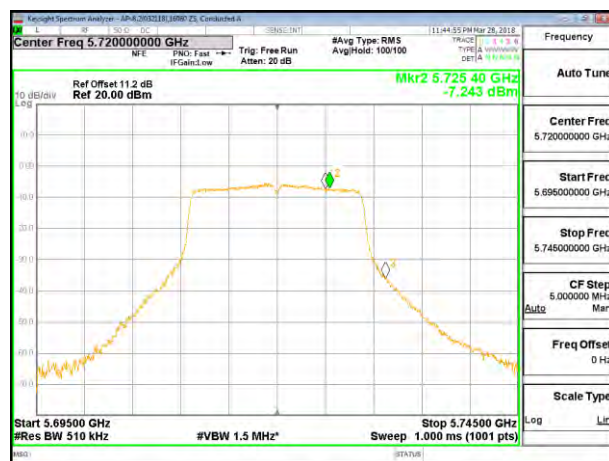
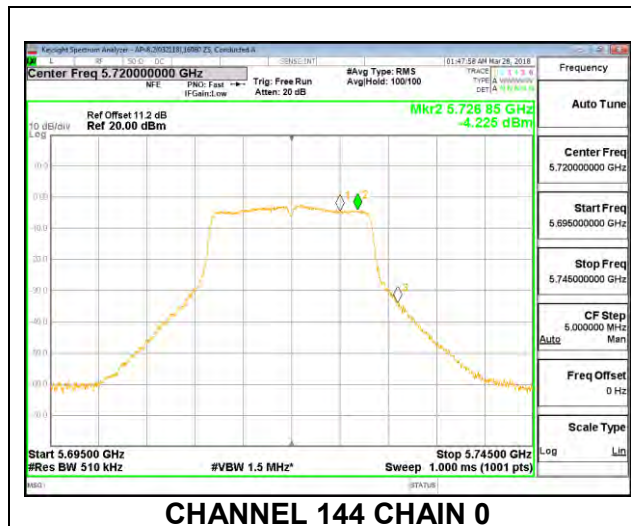
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5745	-4.44	-1.51	30.00	30.00
Mid	5785	-4.44	-1.51	30.00	30.00
High	5825	-4.44	-1.51	30.00	30.00

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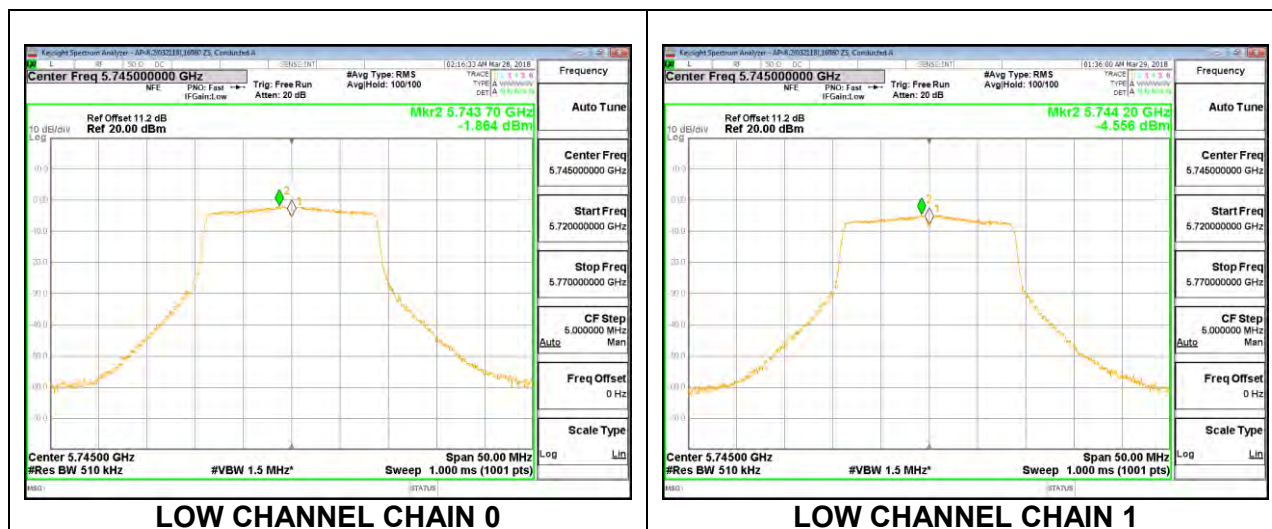
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	11.41	8.69	13.27	30.00	-16.73
Mid	5785	12.17	9.17	13.93	30.00	-16.07
High	5825	12.13	8.67	13.75	30.00	-16.25

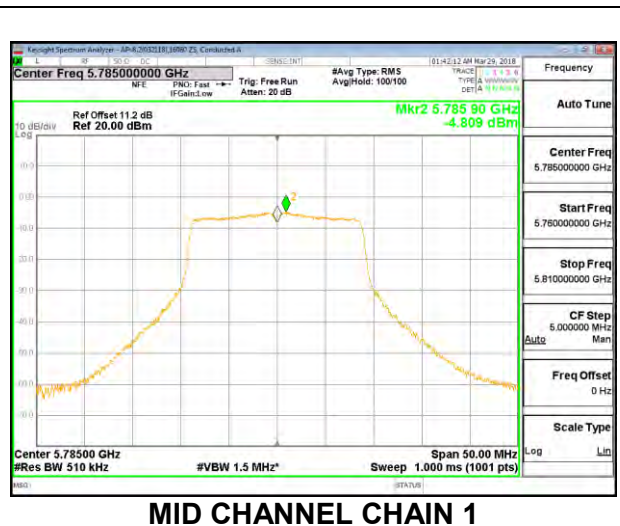
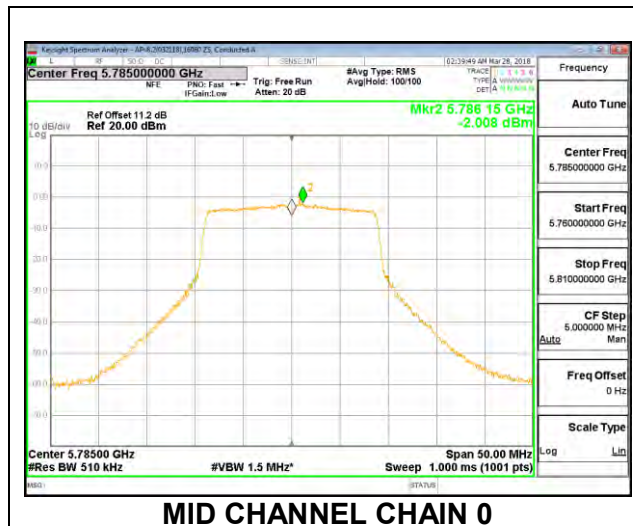
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	-1.864	-4.556	0.106	30.00	-29.89
Mid	5785	-2.008	-4.809	-0.076	30.00	-30.08
High	5825	-2.162	-5.092	-0.274	30.00	-30.27

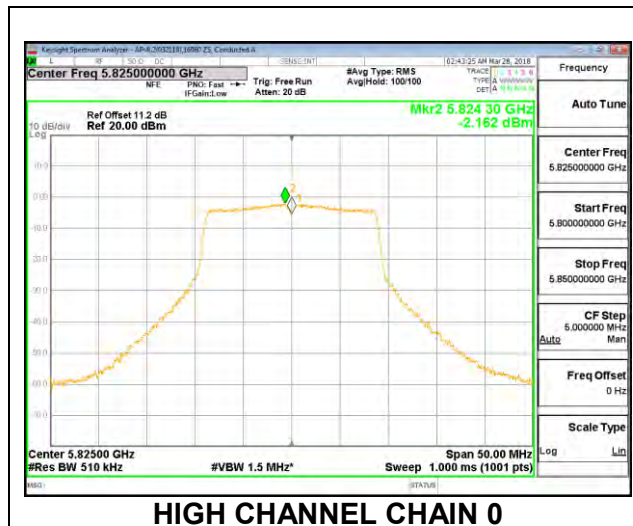
LOW CHANNEL



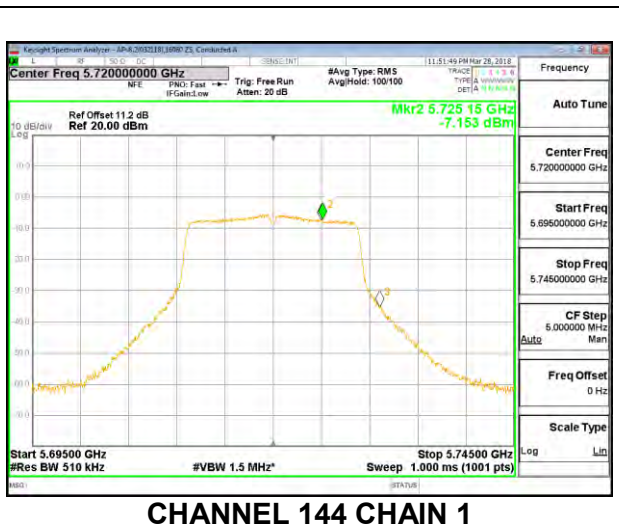
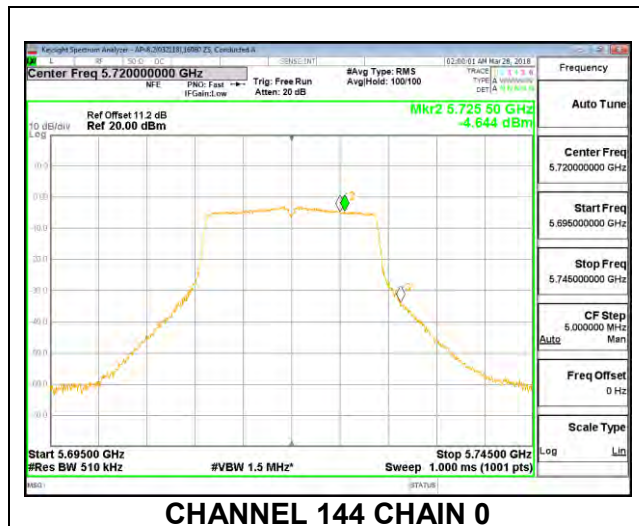
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5755	-4.44	-1.51	30.00	30.00
High	5795	-4.44	-1.51	30.00	30.00

Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd Power
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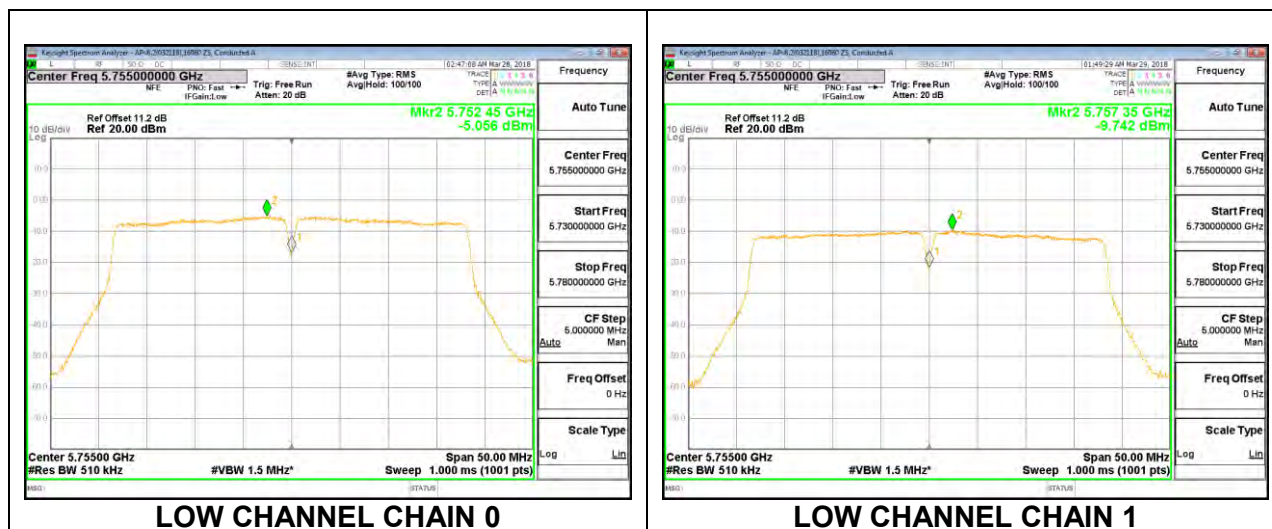
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	10.91	8.28	12.80	30.00	-17.20
High	5795	11.08	8.24	12.90	30.00	-17.10

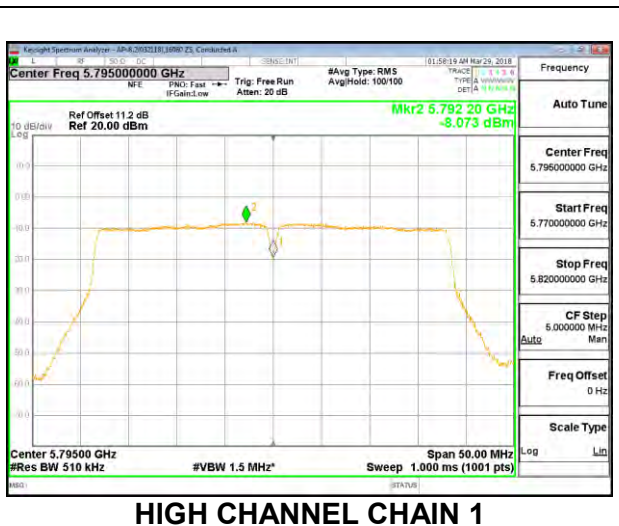
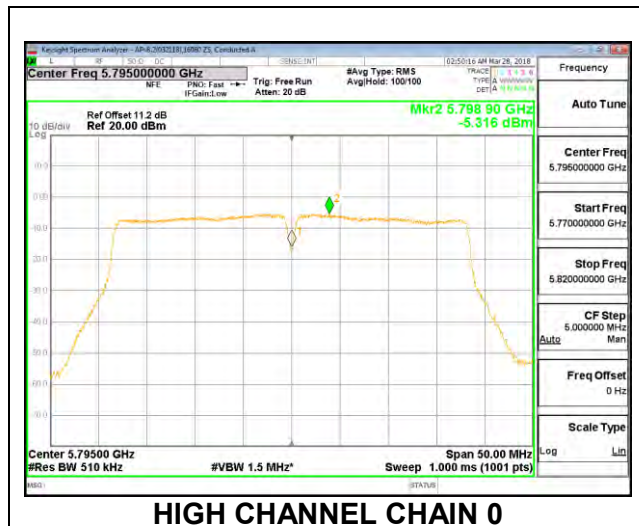
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5755	-5.056	-9.742	-3.465	30.00	-33.47
High	5795	-5.316	-8.073	-3.149	30.00	-33.15

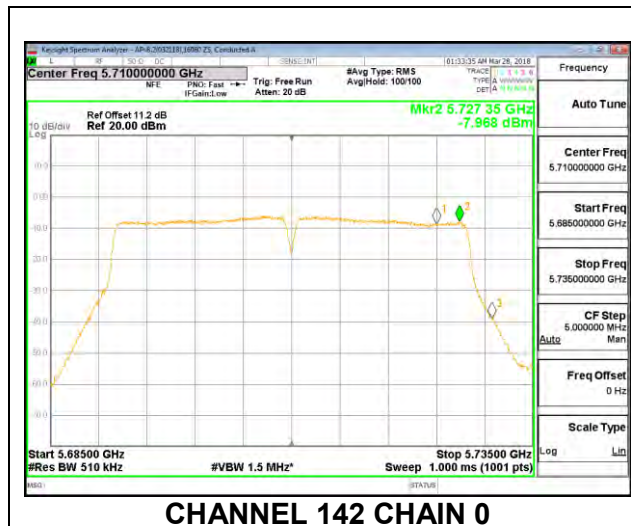
LOW CHANNEL



HIGH CHANNEL



CHANNEL 142



8.5.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Mid	5755	-4.44	1.51	30.00	30.00

Duty Cycle CF (dB)	0.62	Included in Calculations of Corr'd Power
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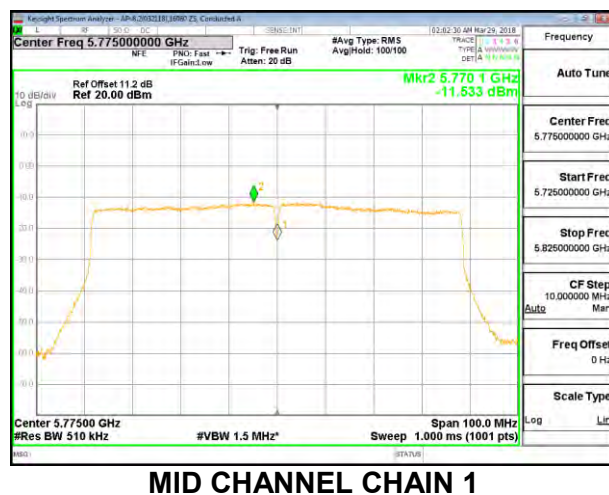
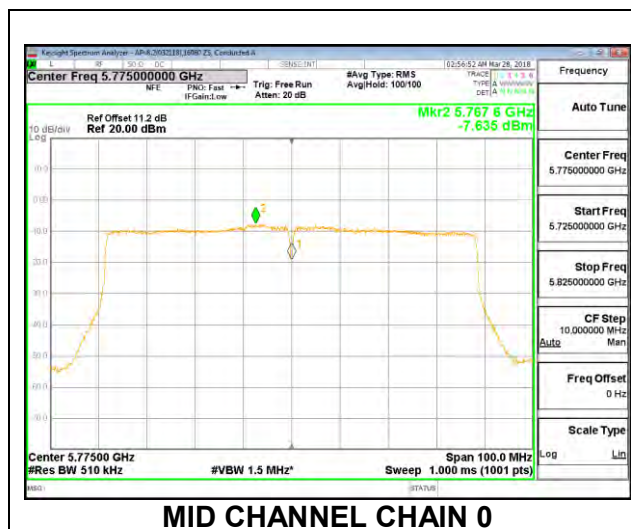
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	11.42	8.16	13.10	30.00	-16.90

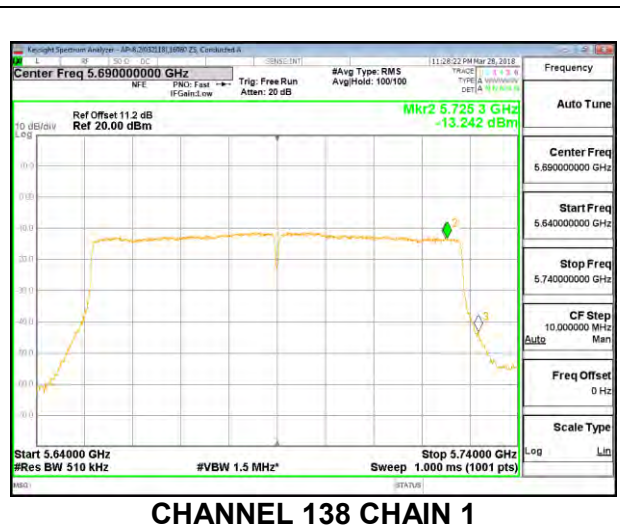
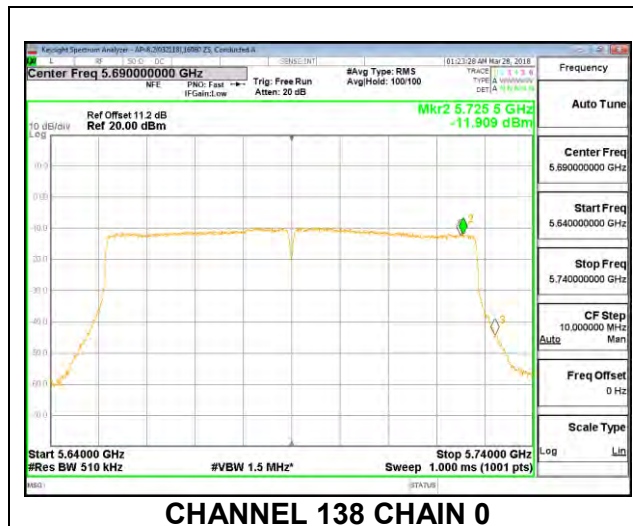
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	-7.635	-11.533	-5.530	30.00	-35.53

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.

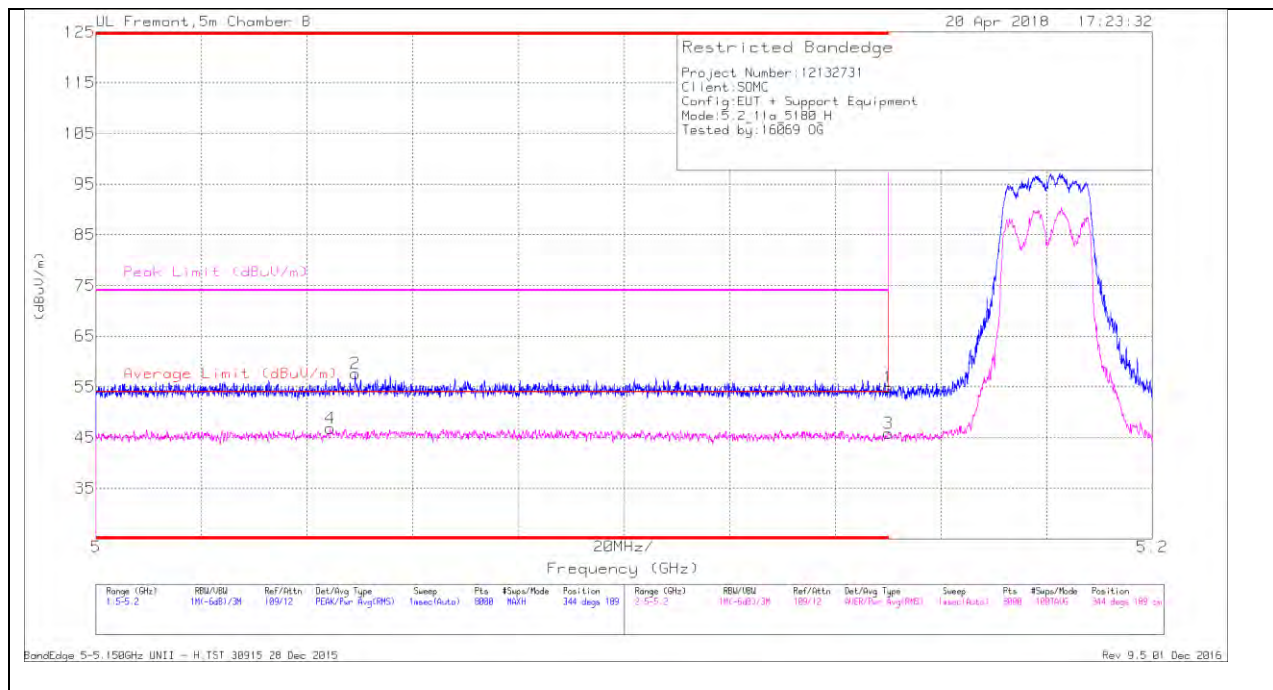
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

9.1. TRANSMITTER ABOVE 1 GHz

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



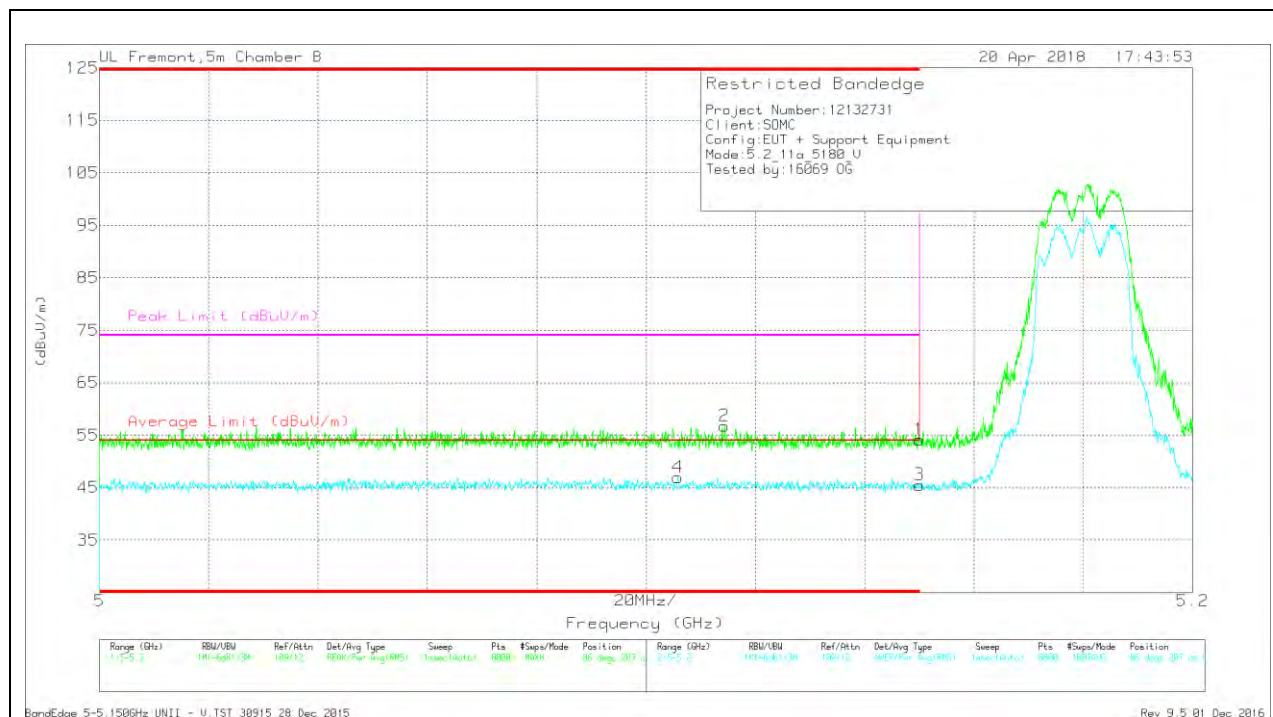
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF TB63 (dB/m)	Amp/Ch/Flt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 5.15	39.02	Pk	34.4	-18.5	0	54.92	-	-	74	-19.08	344	189	H
2	* 5.049	41.34	Pk	34.4	-18.1	0	57.64	-	-	74	-16.36	344	189	H
3	* 5.15	29.91	RMS	34.4	-18.5	0	45.81	54	-8.19	-	-	344	189	H
4	* 5.044	30.48	RMS	34.4	-18.1	0	46.78	54	-7.22	-	-	344	189	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Chl/Ftr/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
4	* 5.106	31.09	RMS	34.3	-18.4	0	46.99	54	-7.01	-	-	86	207	V
2	* 5.114	40.52	Pk	34.4	-18.2	0	56.72	-	-	74	-17.28	86	207	V
1	* 5.15	38.24	Pk	34.4	-18.5	0	54.14	-	-	74	-19.86	86	207	V
3	* 5.15	29.61	RMS	34.4	-18.5	0	45.51	54	-8.49	-	-	86	207	V

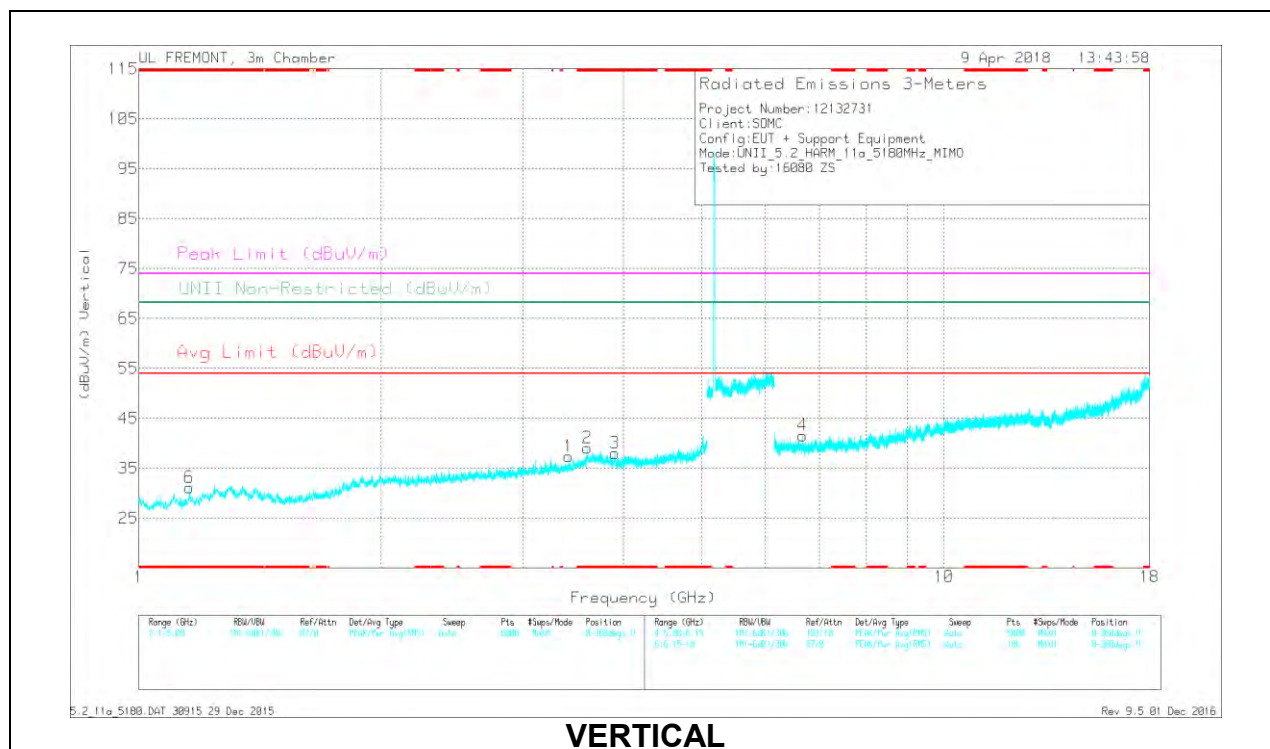
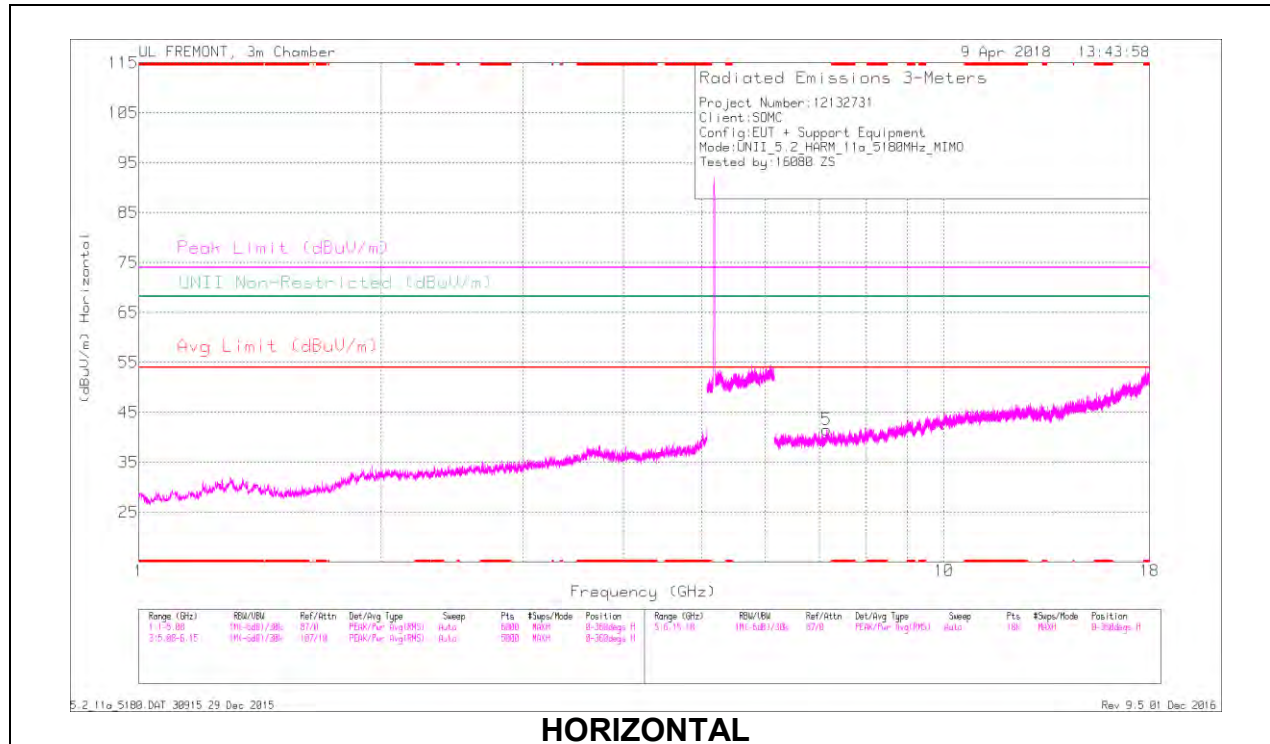
* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

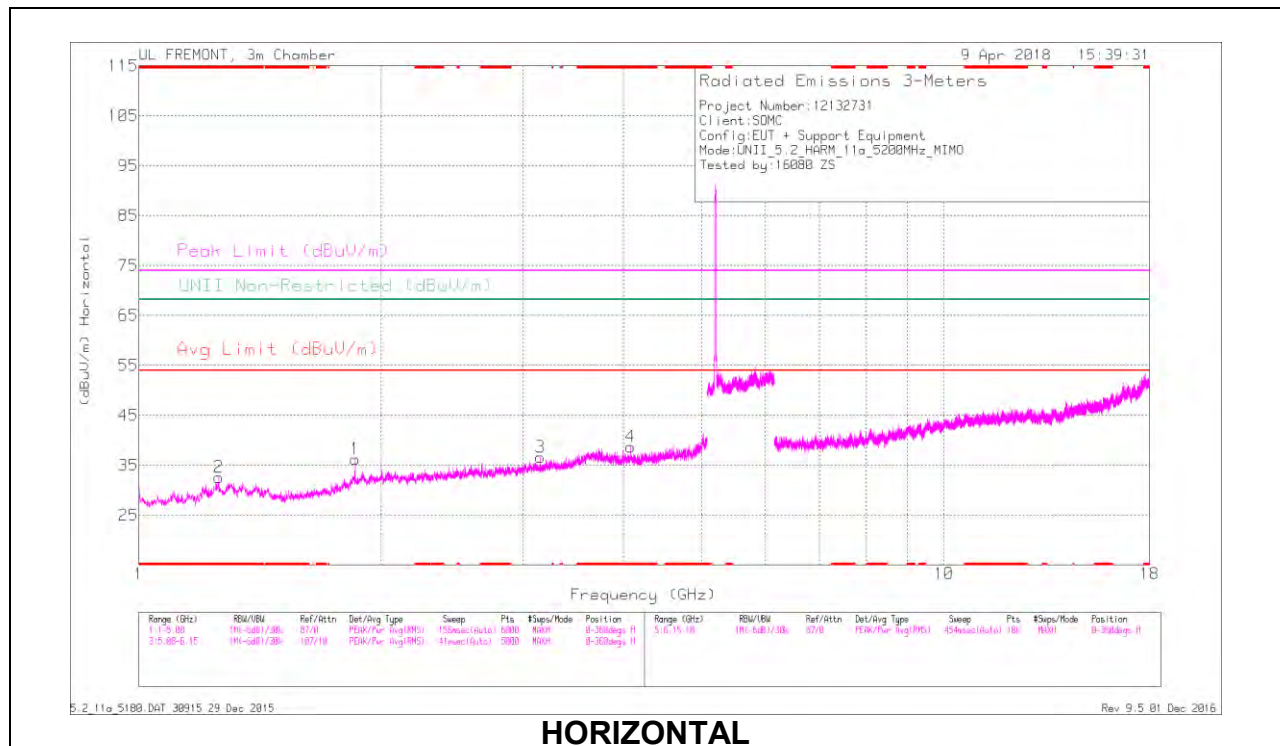
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.605	39.19	PK-U	34.7	-29.4	44.49	-	-	74	-29.51	-	-	301	390	V
	* 3.604	27.78	ADR	34.7	-29.5	32.98	54	-21.02	-	-	-	-	301	390	V
3	* 3.901	38.25	PK-U	33.5	-27.7	44.05	-	-	74	-29.95	-	-	301	219	V
	* 3.902	26.99	ADR	33.5	-27.6	32.89	54	-21.11	-	-	-	-	301	219	V
6	* 1.157	40.34	PK-U	28	-31.8	36.54	-	-	74	-37.46	-	-	286	292	V
	* 1.155	28.53	ADR	27.9	-31.8	24.63	54	-29.37	-	-	-	-	286	292	V
1	3.422	37.7	PK-U	33.8	-28.5	43	-	-	-	-	68.2	-25.2	351	265	V
4	6.671	36.41	PK-U	35.7	-25	47.11	-	-	-	-	68.2	-21.09	360	239	V
5	7.151	36.18	PK-U	35.7	-25.2	46.68	-	-	-	-	68.2	-21.52	12	118	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

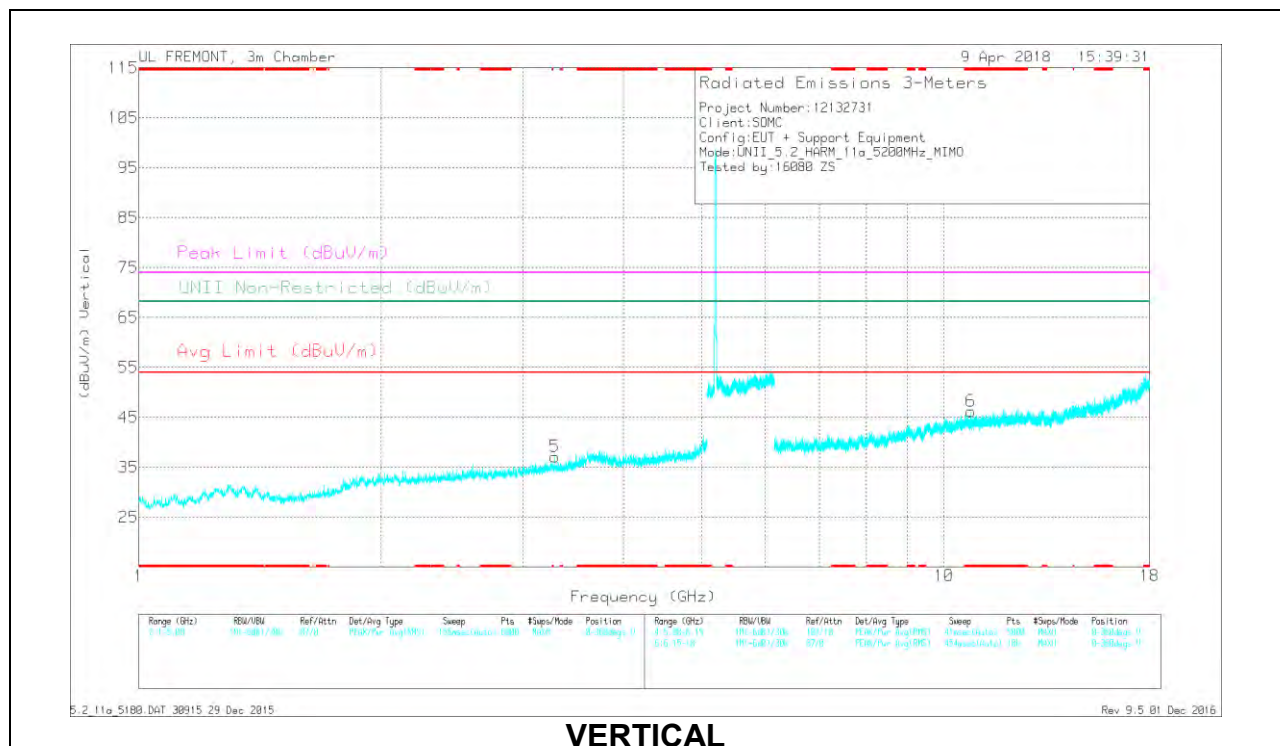
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

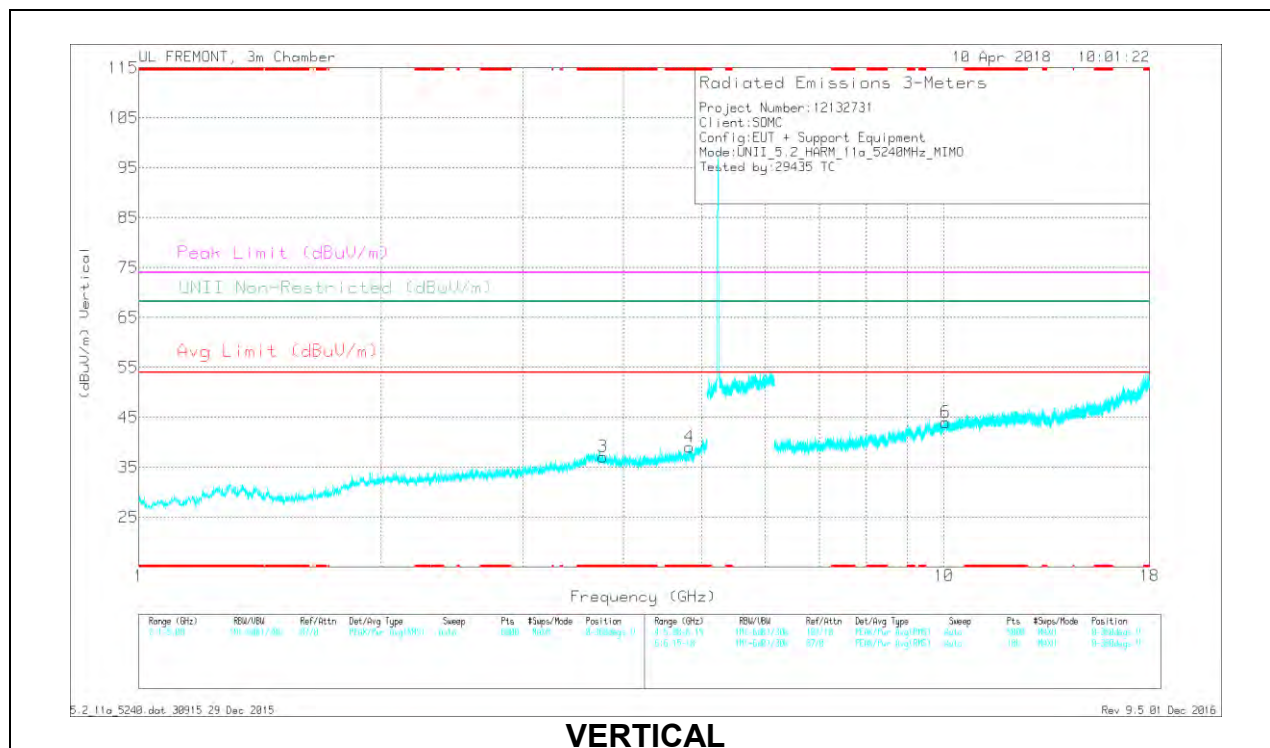
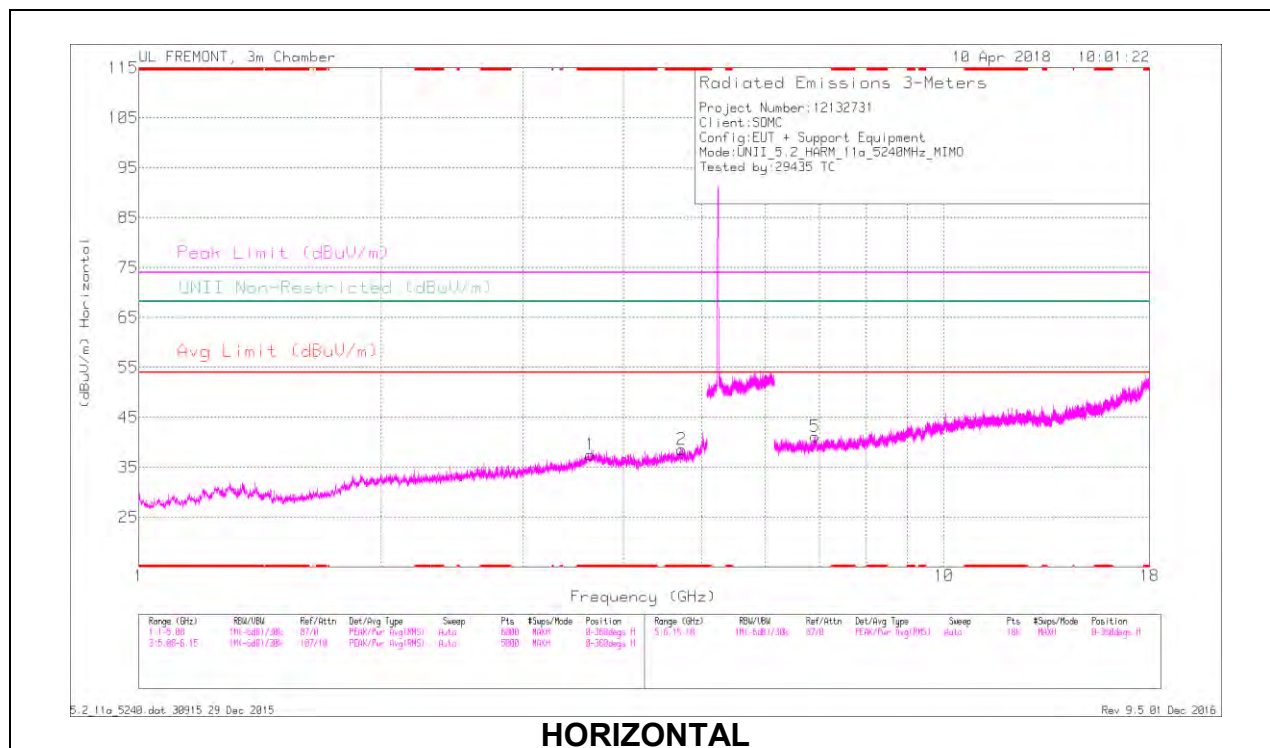
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 1.258	39.69	PK-U	29.9	-31.8	37.79	-	-	74	-36.21	-	-	173	271	H
	* 1.254	28.18	ADR	29.9	-31.9	26.18	54	-27.82	-	-	-	-	173	271	H
4	* 4.08	39.19	PK-U	33.5	-27.9	44.79	-	-	74	-29.21	-	-	96	272	H
	* 4.078	27.19	ADR	33.5	-28	32.69	54	-21.31	-	-	-	-	96	272	H
6	* 10.793	34.2	PK-U	37.9	-20.8	51.3	-	-	74	-22.7	-	-	139	117	V
	* 10.793	22.37	ADR	37.9	-20.8	39.47	54	-14.53	-	-	-	-	139	117	V
1	1.855	38.62	PK-U	31	-30.2	39.42	-	-	-	-	68.2	-28.78	78	188	H
3	3.153	38.62	PK-U	33.2	-29.7	42.02	-	-	-	-	68.2	-26.18	135	186	H
5	3.288	38.24	PK-U	33.4	-28.6	43.04	-	-	-	-	68.2	-25.16	313	392	V

* - indicates frequency in CFR47 Pt 15 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 1120 (dBm)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.637	38.93	PK-U	34.6	-29.2	0	44.33	-	-	74	-29.67	-	-	214	233	H
	* 3.637	27.2	ADR	34.6	-29.2	0	32.6	54	-21.4	-	-	-	-	214	233	H
2	* 4.724	38.57	PK-U	34	-28.4	0	44.17	-	-	74	-29.83	-	-	50	394	H
	* 4.727	27.17	ADR	34	-28.5	0	32.67	54	-21.33	-	-	-	-	50	394	H
3	* 3.767	39.48	PK-U	33.8	-29.1	0	44.18	-	-	74	-29.82	-	-	147	269	V
	* 3.767	27.61	ADR	33.8	-29.1	0	32.31	54	-21.69	-	-	-	-	147	269	V
4	* 4.83	38.24	PK-U	34.1	-27.1	0	45.24	-	-	74	-28.76	-	-	64	110	V
	* 4.83	26.89	ADR	34.1	-27.1	0	33.89	54	-20.11	-	-	-	-	64	110	V
5	6.918	35.8	PK-U	35.7	-24.2	0	47.3	-	-	-	-	68.2	-20.9	165	105	H
6	10.041	34.68	PK-U	37.3	-20.3	0	51.68	-	-	-	-	68.2	-16.52	197	154	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

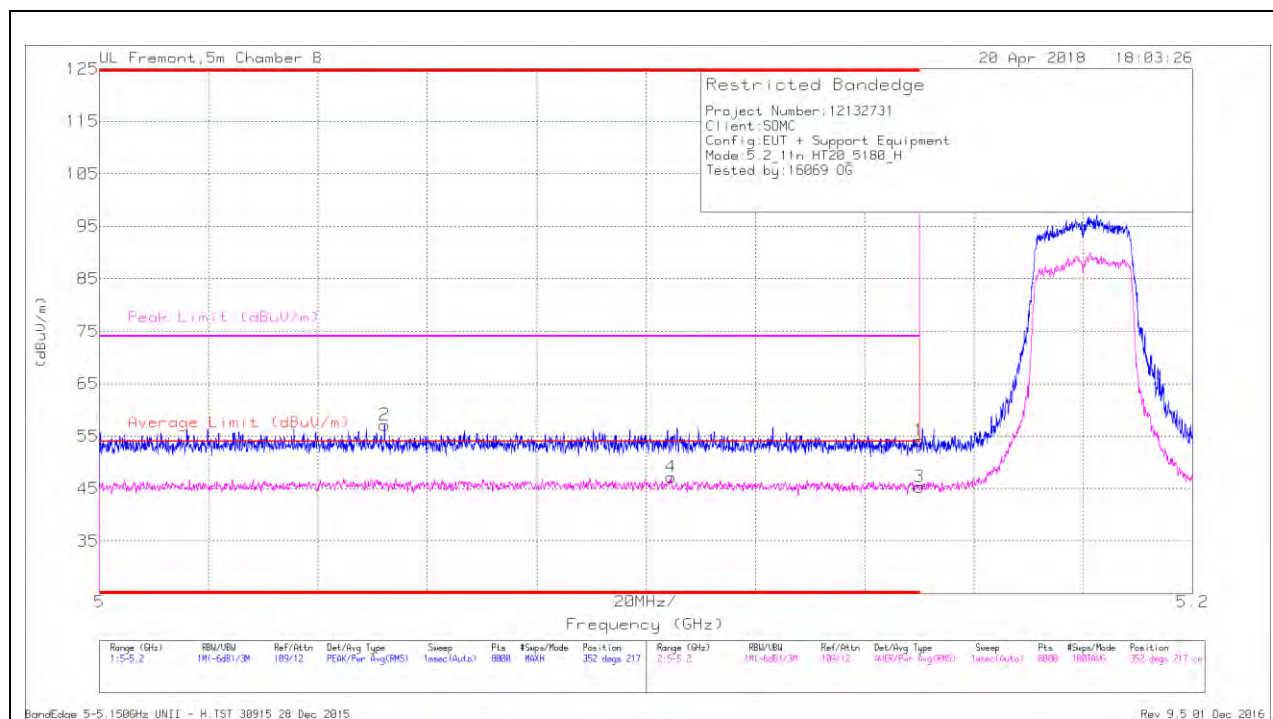
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



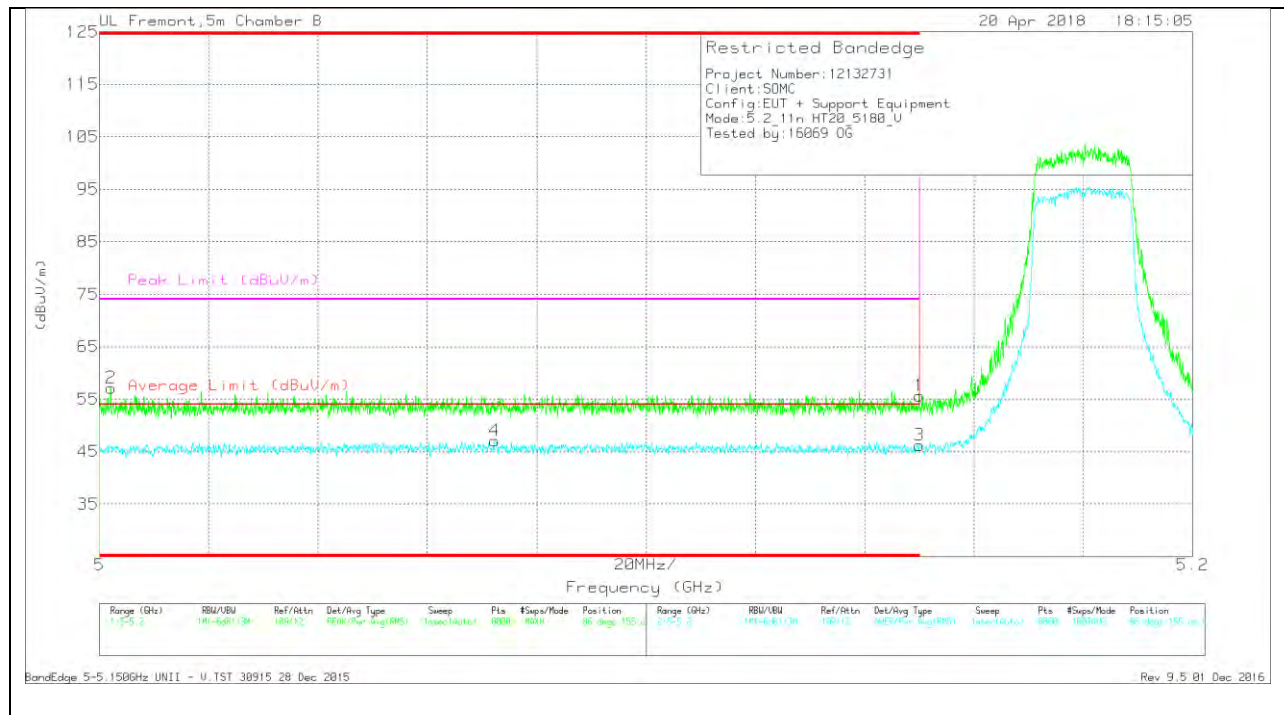
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.052	40.84	Pk	34.4	-18.1	0	57.14	-	-	74	-16.86	352	217	H
4	* 5.105	31	RMS	34.3	-18.2	.1	47.2	54	-6.8	-	-	352	217	H
1	* 5.15	38.28	Pk	34.4	-18.5	0	54.18	-	-	74	-19.82	352	217	H
3	* 5.15	29.36	RMS	34.4	-18.5	.1	45.36	54	-8.64	-	-	352	217	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Ftr/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	* 5.002	40.95	Pk	34.4	-18.2	0	57.15	-	-	74	-16.85	86	155	V
4	* 5.072	30.8	RMS	34.3	-18.1	.1	47.1	54	-6.9	-	-	86	155	V
1	* 5.15	39.78	Pk	34.4	-18.5	0	55.68	-	-	74	-18.32	86	155	V
3	* 5.15	30.15	RMS	34.4	-18.5	.1	46.15	54	-7.85	-	-	86	155	V

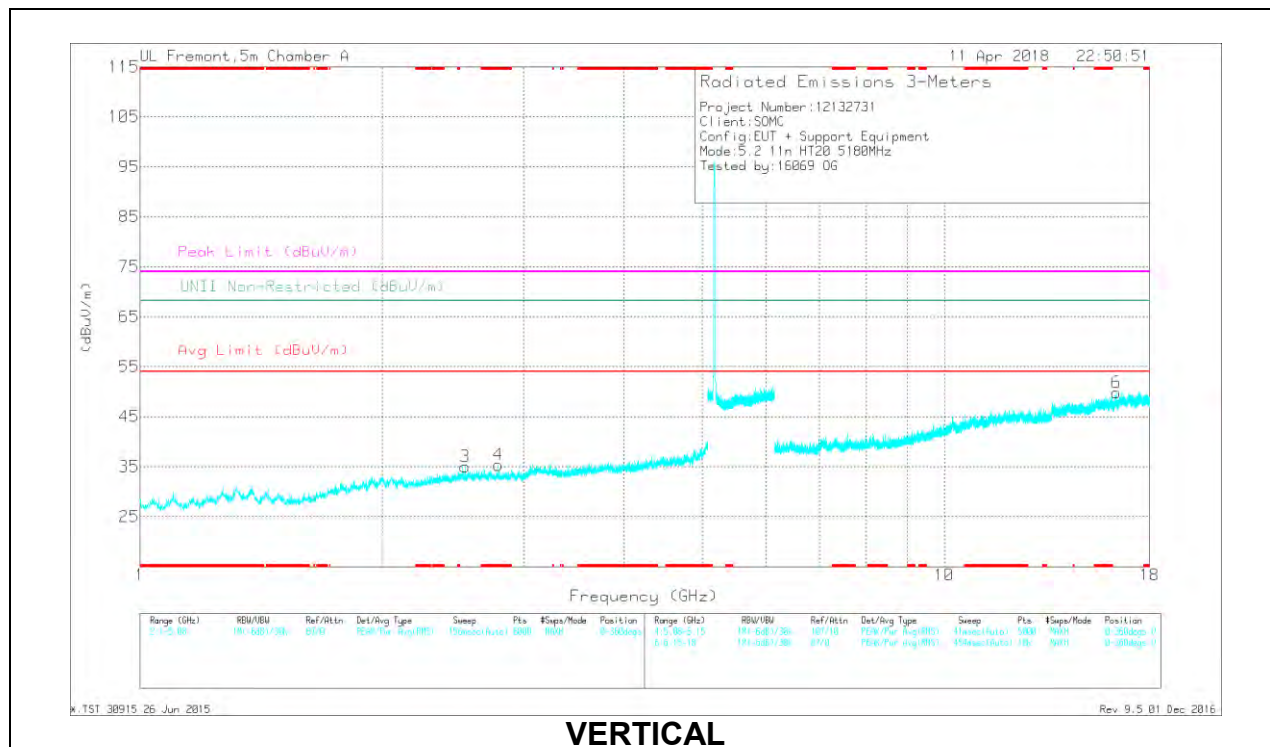
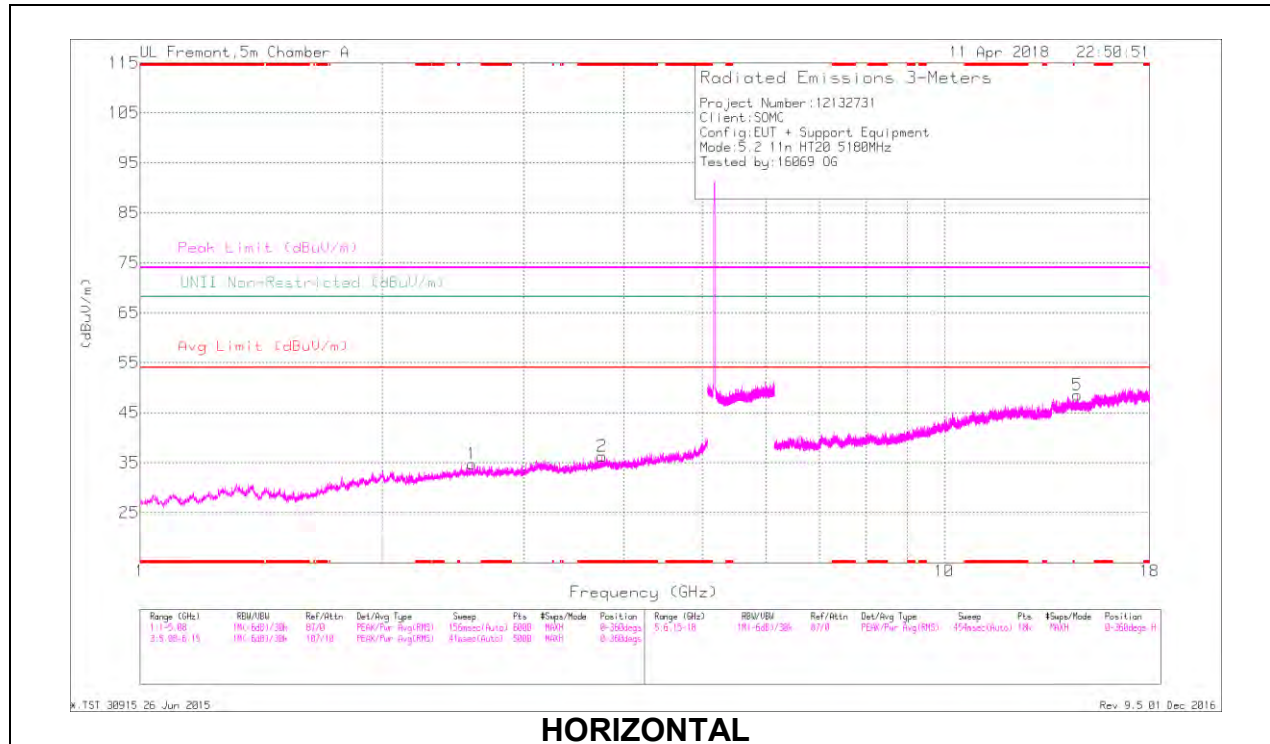
* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

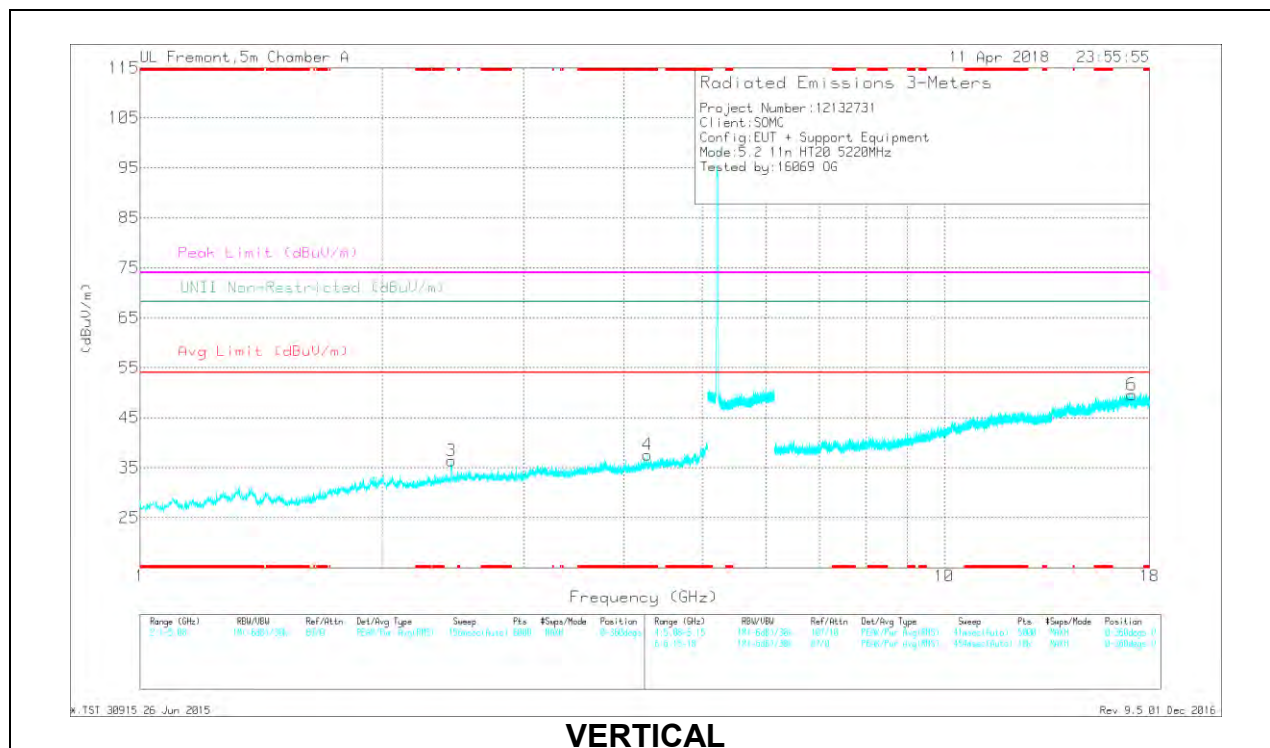
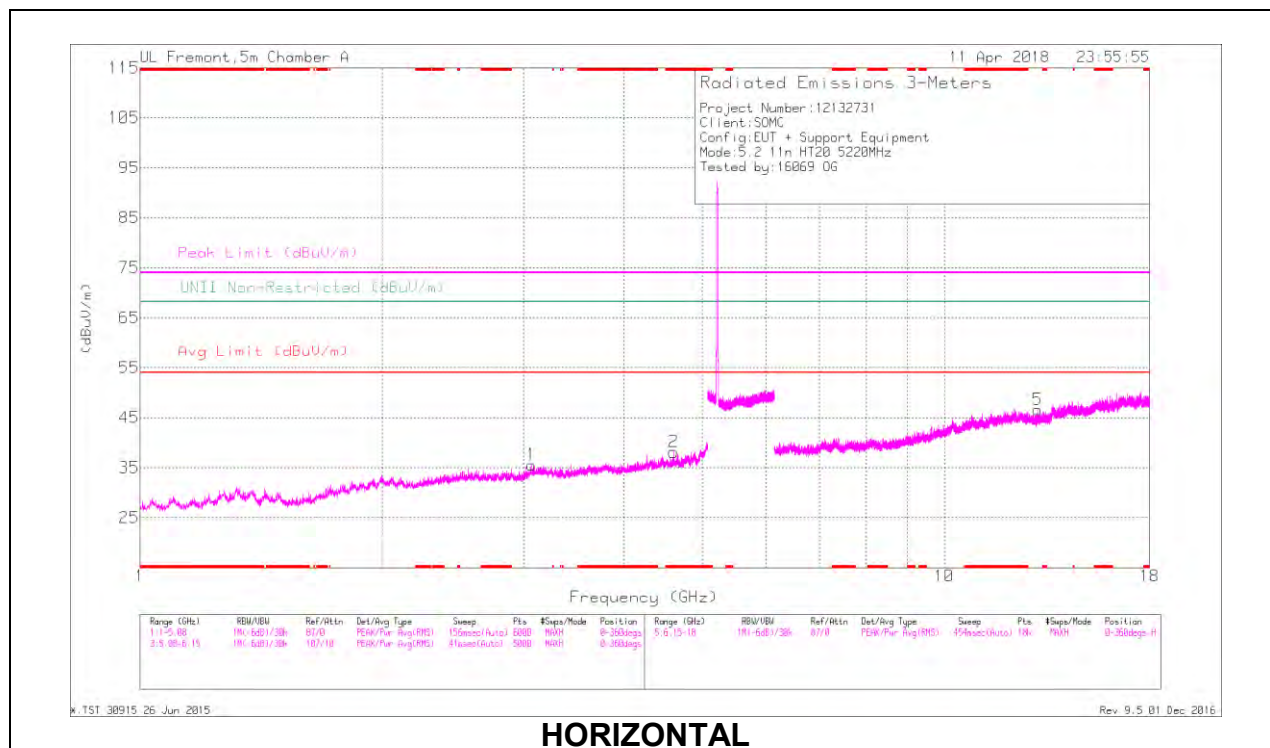


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1862 (dBm)	Amp/Cbl/Filt/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)	Azimuth (Degs)	Height (cm)	Polarity
2	* 3.754	37.56	PK-U	33.2	-28.5	0	42.26	-	-	74	-31.74	-	-	258	254	H
2	* 3.756	25.58	ADR	33.2	-28.5	-1	30.38	54	-23.62	-	-	-	-	258	254	H
4	* 2.788	38.42	PK-U	32.2	-29.9	0	40.72	-	-	74	-33.28	-	-	35	191	V
4	* 2.788	26.21	ADR	32.2	-29.9	-1	28.61	54	-25.39	-	-	-	-	35	191	V
3	2.535	38.33	PK-U	32.4	-30.2	0	40.53	-	-	-	-	68.2	-27.67	50	253	V
1	2.587	37.78	PK-U	32.4	-30.2	0	39.98	-	-	-	-	68.2	-28.22	66	230	H
5	14.629	32.49	PK-U	39.8	-19.1	0	53.19	-	-	-	-	68.2	-15.01	187	132	H
6	16.367	32.7	PK-U	40.9	-17.8	0	55.8	-	-	-	-	68.2	-12.4	354	227	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS

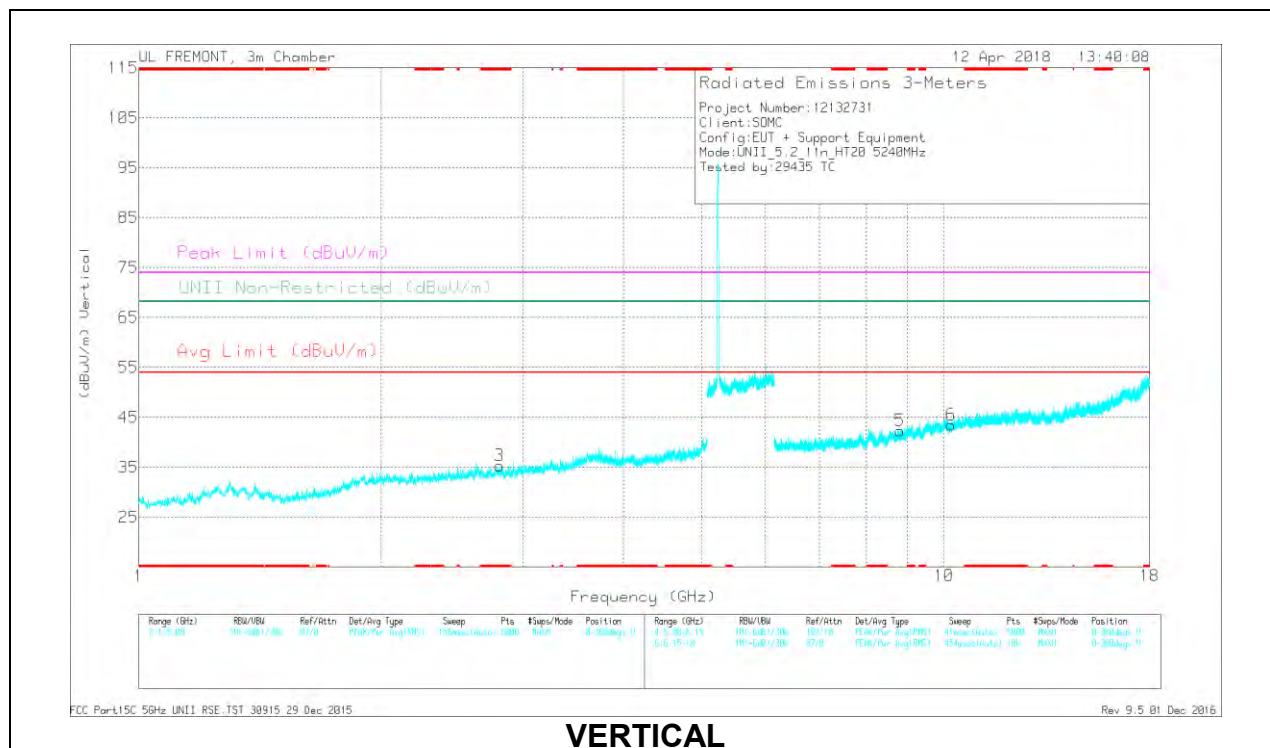
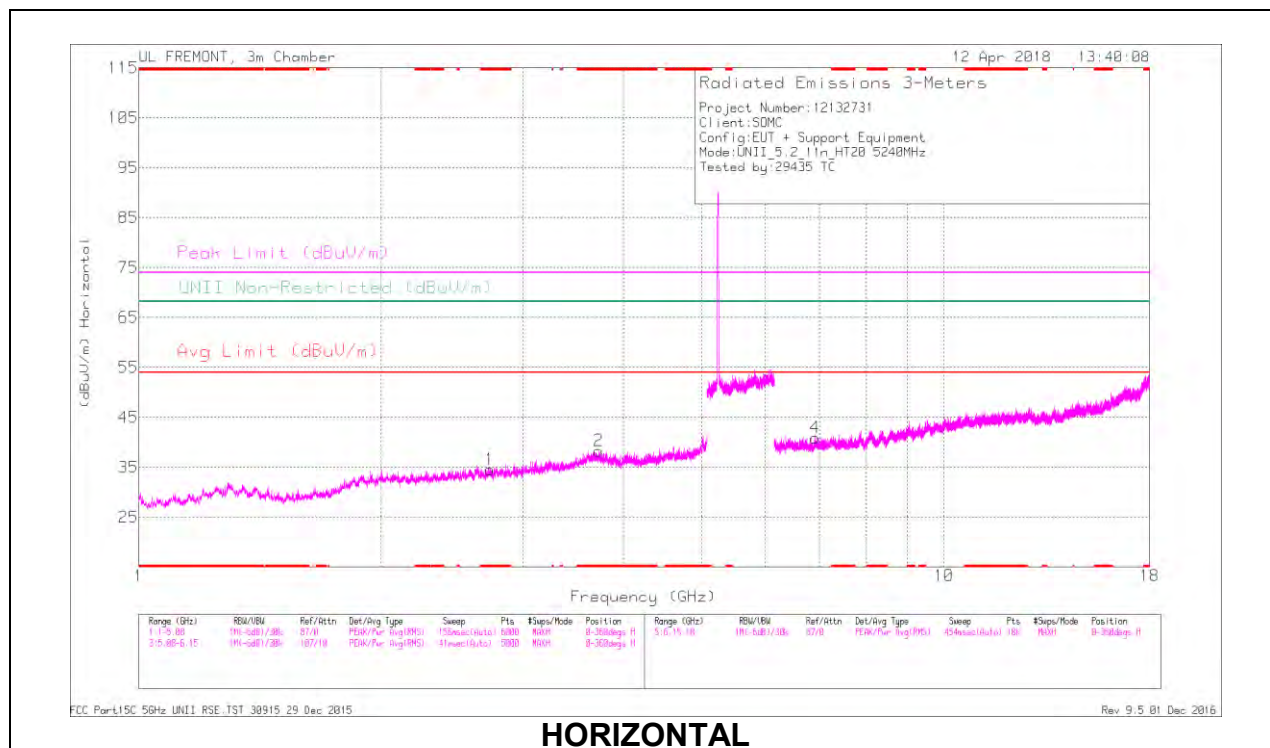


RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1862 (dBm)	Amp/Cbl/Filt/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)	Azimuth (Degree)	Height (cm)	Polarity
2	* 4.606	36.74	PK-U	34.1	-27.2	0	43.64	-	-	74	-30.36	-	-	179	146	H
2	* 4.609	24.81	ADR	34.1	-27.2	-1	31.81	54	-22.19	-	-	-	-	179	146	H
4	* 4.277	36.59	PK-U	33.5	-27.4	0	42.69	-	-	74	-31.31	-	-	351	137	V
4	* 4.277	24.67	ADR	33.5	-27.3	-1	30.97	54	-23.03	-	-	-	-	351	137	V
3	2.438	43.46	PK-U	32.1	-30.8	0	44.76	-	-	-	-	68.2	-23.44	354	193	V
1	3.065	37.81	PK-U	32.8	-29.4	0	41.21	-	-	-	-	68.2	-26.99	170	211	H
5	13.062	32.35	PK-U	39.3	-19.2	0	52.45	-	-	-	-	68.2	-15.75	87	256	H
6	17.109	33.18	PK-U	41.3	-19.2	0	55.28	-	-	-	-	68.2	-12.92	118	236	V

* - indicates frequency in CFR47 Pt 15 Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Power Reading (dBm)	Det	AF 1120 (dBm)	Amp/Cat/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 2.729	39.16	PK-U	32.5	-29.8	0	41.96	-	-	74	-32.14	-	-	107	314	H
	* 2.729	26.91	ADR	32.5	-29.9	-1	29.61	54	-24.39	-	-	-	-	107	314	H
2	* 3.726	38.06	PK-U	34	-27.4	0	44.66	-	-	74	-29.34	-	-	42	321	H
	* 3.727	26.59	ADR	34	-27.1	-1	33.59	54	-20.41	-	-	-	-	42	321	H
3	* 2.809	38.04	PK-U	32.7	-29.7	0	41.04	-	-	74	-32.96	-	-	294	400	V
	* 2.809	26.35	ADR	32.7	-29.7	-1	29.45	54	-24.55	-	-	-	-	294	400	V
4	6.915	35.63	PK-U	35.7	-24.2	0	47.13	-	-	-	-	68.2	-21.07	317	255	H
5	8.818	34.18	PK-U	36	-21.8	0	48.38	-	-	-	-	68.2	-19.82	291	293	V
6	10.206	33.88	PK-U	37.4	-21.2	0	50.08	-	-	-	-	68.2	-18.12	317	231	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

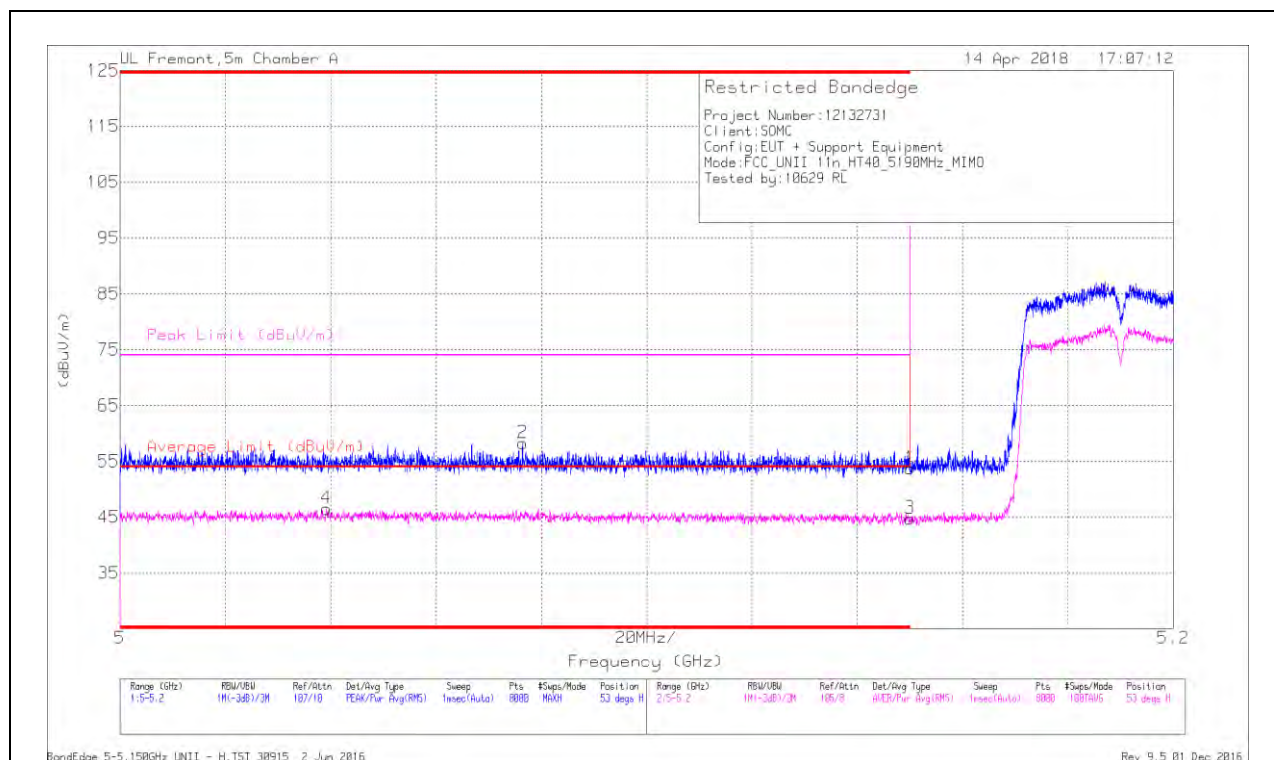
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



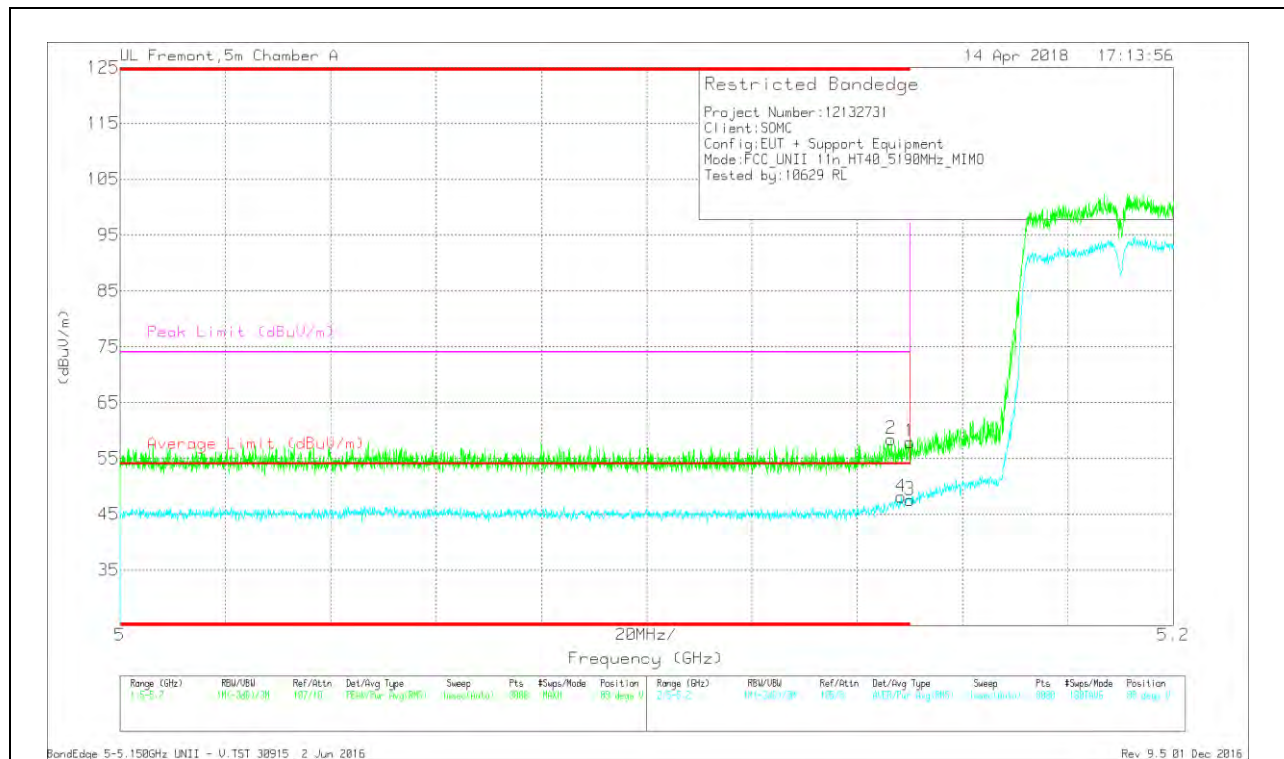
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/CbWftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.039	29.88	RMS	34.3	-18	.32	46.5	54	-7.5	-	-	53	152	H
2	* 5.076	41.77	Pk	34.4	-17.9	0	58.27	-	-	74	-15.73	53	152	H
1	* 5.15	37.44	Pk	34.4	-18.1	0	53.74	-	-	74	-20.26	53	152	H
3	* 5.15	28.13	RMS	34.4	-18.1	.32	44.75	54	-9.25	-	-	53	152	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/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
2	* 5.146	42.05	Pk	34.4	-18	0	58.45	-	-	74	-15.55	88	190	V
4	* 5.148	31.52	RMS	34.4	-18.1	32	48.14	54	-5.86	-	-	88	190	V
1	* 5.15	41.66	Pk	34.4	-18.1	0	57.96	-	-	74	-16.04	88	190	V
3	* 5.15	30.91	RMS	34.4	-18.1	32	47.53	54	-6.47	-	-	88	190	V

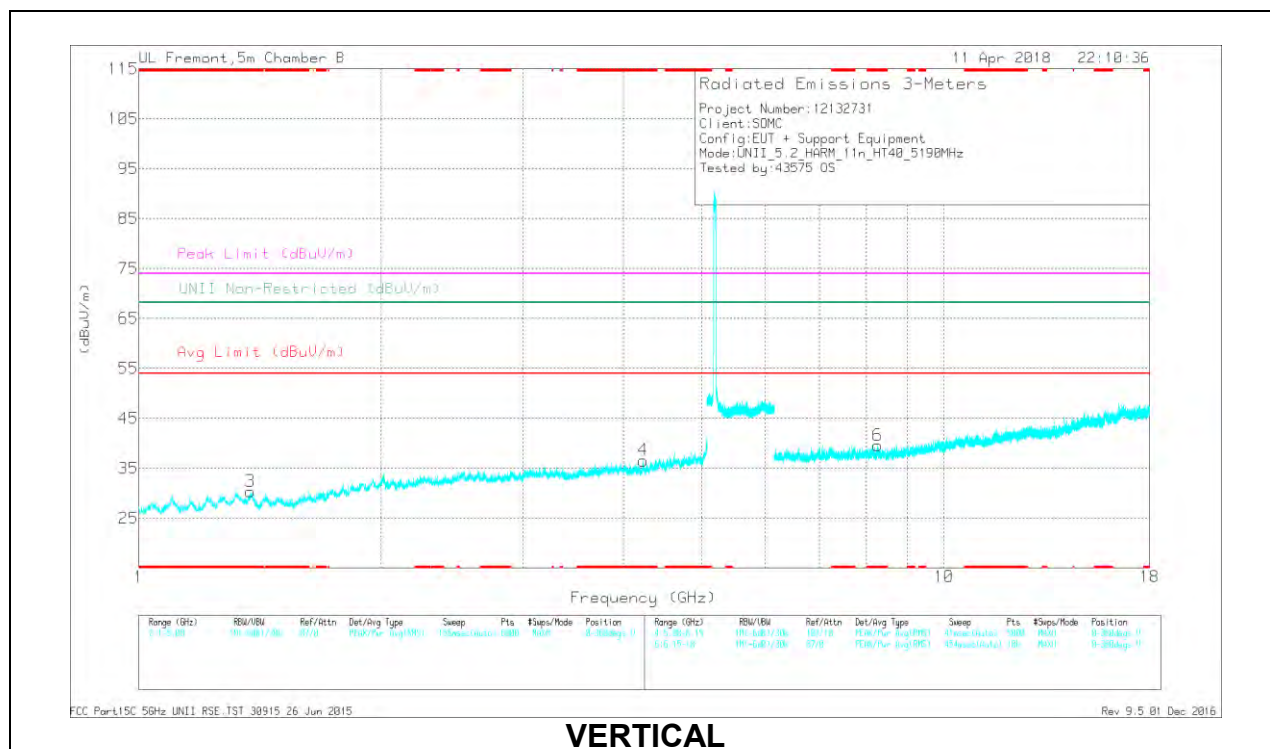
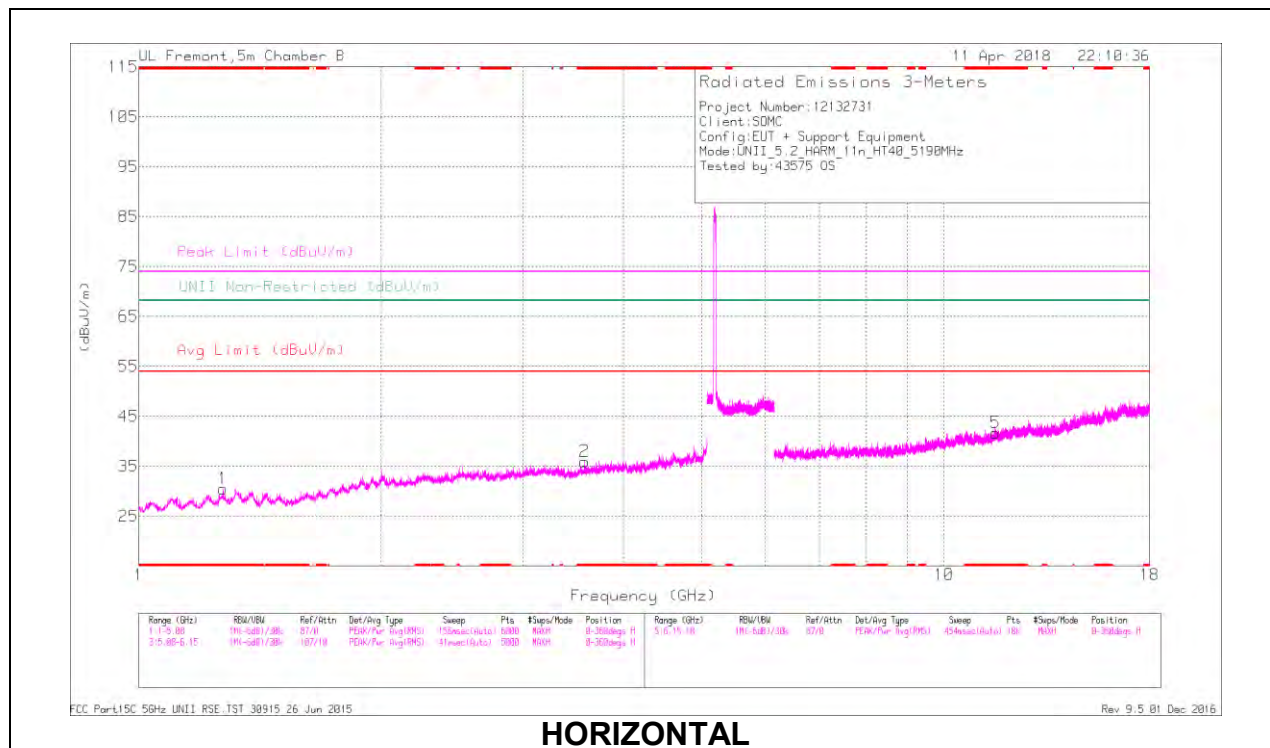
* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

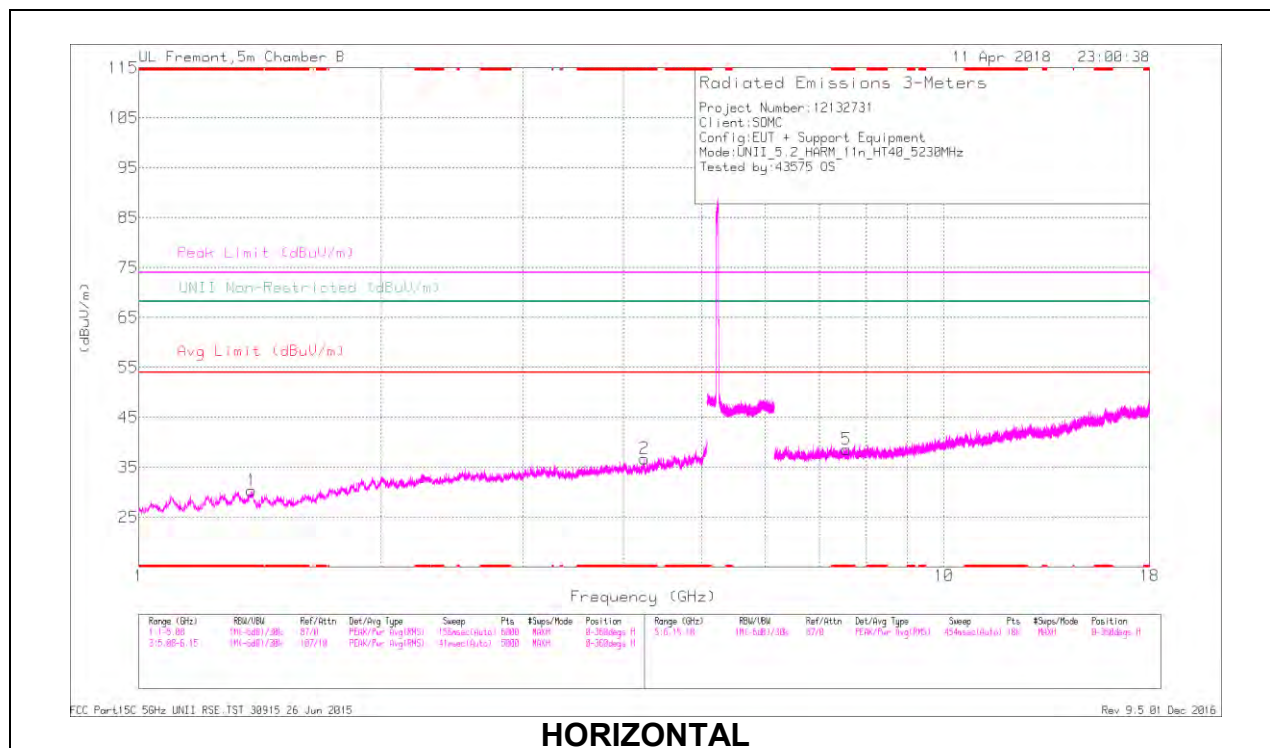
Frequency (GHz)	Water Reading (dBuV)	Det	AF T63 (dB/m)	Amp/Chl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.271	42.87	PK-U	28.8	-35	0	36.67	-	-	74	-37.33	-	-	222	120	H
* 1.271	30.42	ADR	28.8	-35	.32	24.54	54	-29.46	-	-	-	-	222	120	H
* 3.576	40.22	PK-U	33.1	-31.8	0	41.52	-	-	74	-32.48	-	-	156	145	H
* 3.579	28.08	ADR	33.1	-31.9	.32	29.6	54	-24.4	-	-	-	-	156	145	H
* 1.374	42.07	PK-U	28.5	-33.8	0	36.77	-	-	74	-37.23	-	-	296	221	V
* 1.377	30.08	ADR	28.5	-33.8	.32	25.1	54	-28.9	-	-	-	-	296	221	V
* 4.229	39.44	PK-U	33.4	-30.7	0	42.14	-	-	74	-31.86	-	-	328	156	V
* 4.23	28.07	ADR	33.4	-30.7	.32	31.09	54	-22.91	-	-	-	-	328	156	V
* 11.59	33.77	PK-U	38.2	-23.7	0	48.27	-	-	74	-25.73	-	-	115	167	H
* 11.589	22.01	ADR	38.2	-23.7	.32	36.83	54	-17.17	-	-	-	-	115	167	H
* 8.274	36.27	PK-U	36.1	-26.8	0	45.57	-	-	74	-28.43	-	-	89	115	V
* 8.272	24.42	ADR	36.1	-26.7	.32	34.14	54	-19.86	-	-	-	-	89	115	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

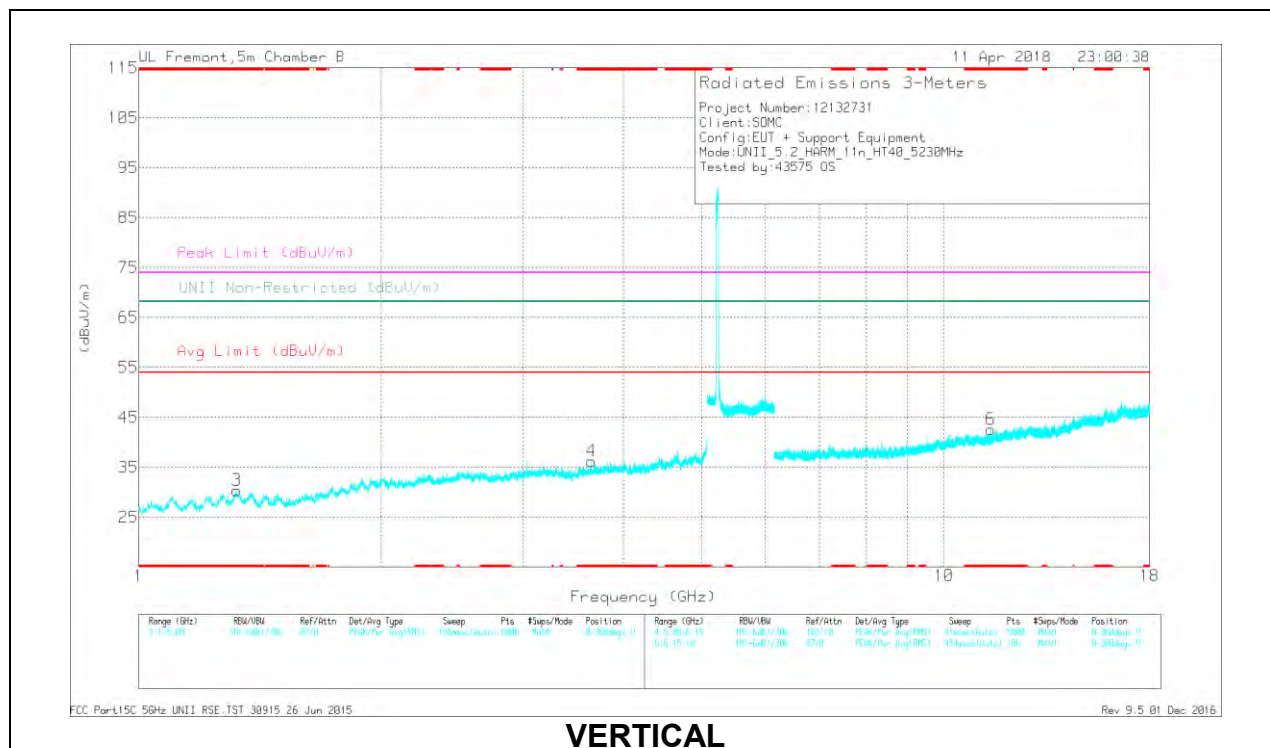
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dB/m)	Amp/Cbl/Filt/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 (m)	Height (cm)	Polarity
* 1.379	41.99	PK-U	28.5	-33.8	0	36.69	-	-	74	-37.31	-	-	119	275	H
* 1.379	30.22	ADR	28.5	-33.8	.32	25.24	54	-28.76	-	-	-	-	119	275	H
* 4.244	39.93	PK-U	33.5	-31.3	0	42.13	-	-	74	-31.87	-	-	2	278	H
* 4.243	28.21	ADR	33.5	-31.3	.32	30.73	54	-23.27	-	-	-	-	2	278	H
* 1.323	43.08	PK-U	28.9	-34.3	0	37.68	-	-	74	-36.32	-	-	58	148	V
* 1.323	30.23	ADR	28.9	-34.3	.32	25.15	54	-28.85	-	-	-	-	58	148	V
* 3.646	40.23	PK-U	33.2	-31.9	0	41.53	-	-	74	-32.47	-	-	280	255	V
* 3.646	28.51	ADR	33.2	-31.9	.32	30.13	54	-23.87	-	-	-	-	280	255	V
* 7.567	36.45	PK-U	36	-28.1	0	44.35	-	-	74	-29.65	-	-	330	173	H
* 7.567	24.99	ADR	36	-28.1	.32	33.21	54	-20.79	-	-	-	-	330	173	H
* 11.428	34.13	PK-U	38	-24.6	0	47.53	-	-	74	-26.47	-	-	225	271	V
* 11.429	22.38	ADR	38	-24.6	.32	36.1	54	-17.9	-	-	-	-	225	271	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

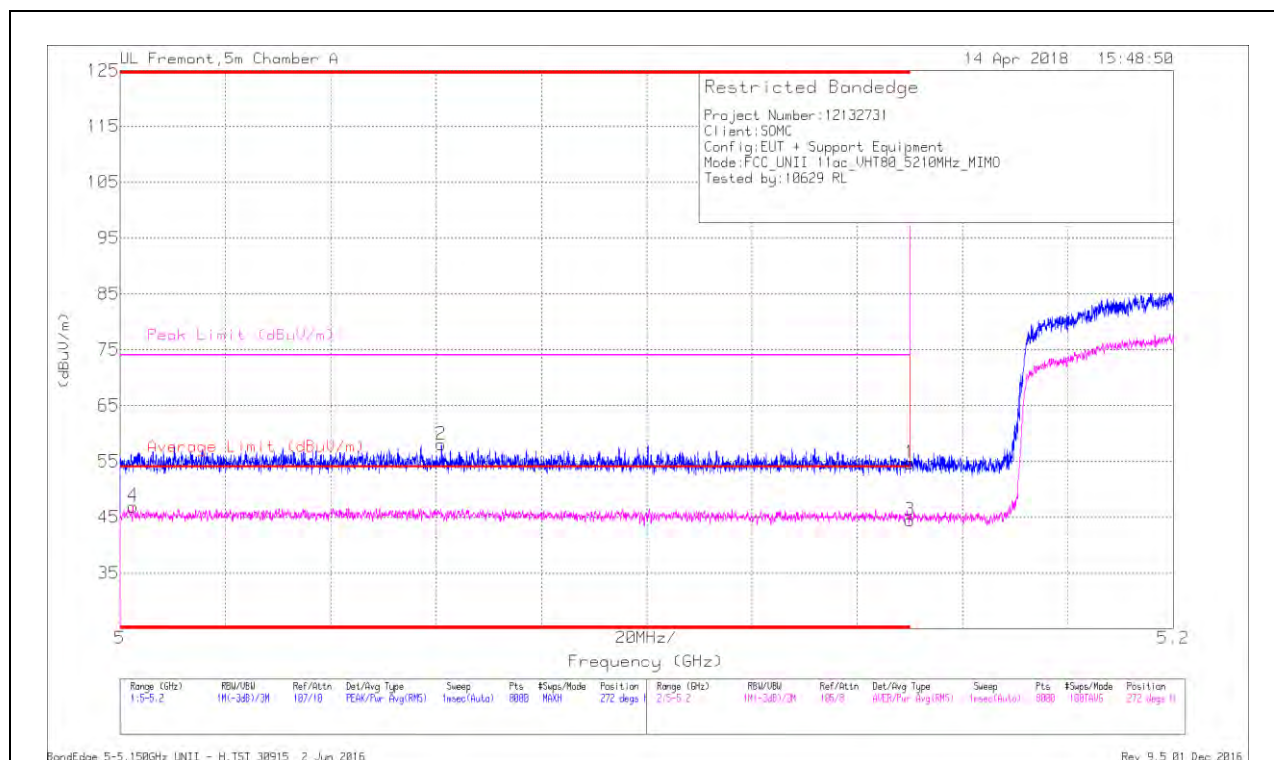
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



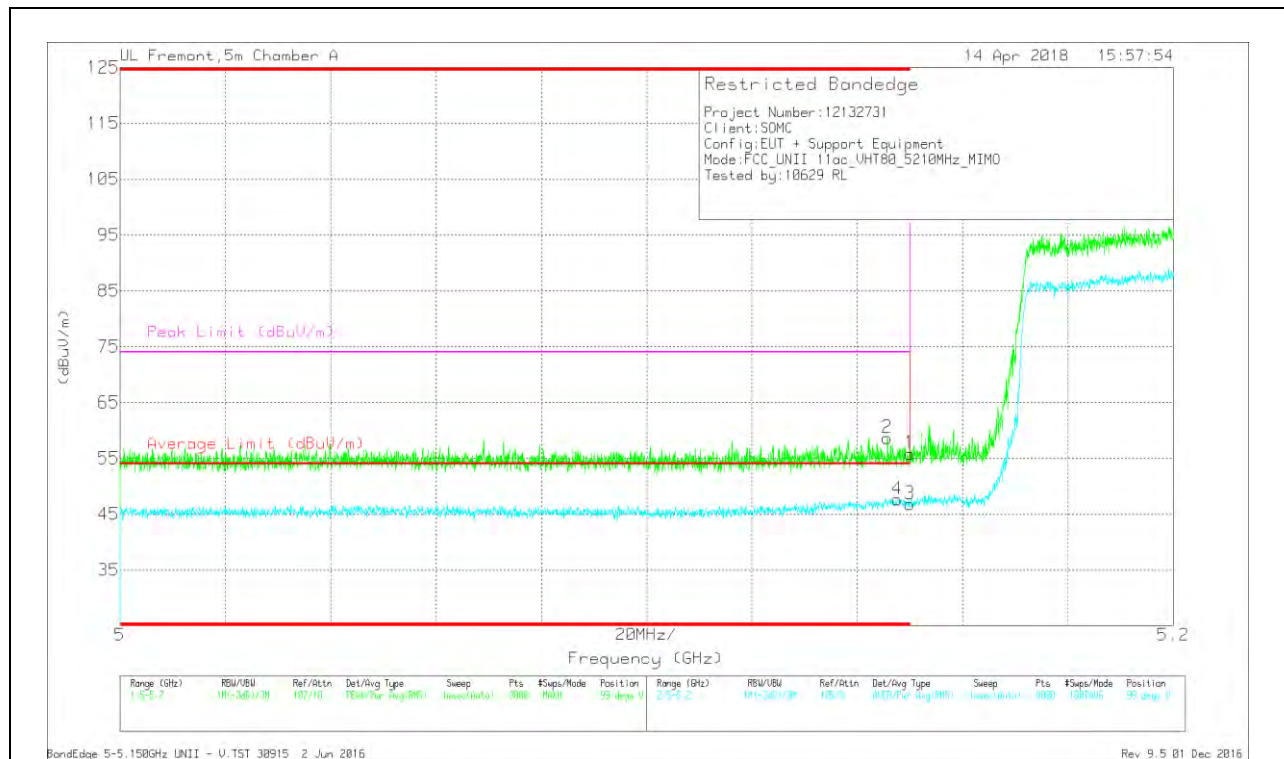
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/CbWftr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.002	29.92	RMS	34.3	-17.9	.62	46.94	54	-7.06	-	-	272	267	H
2	* 5.061	41.51	Pk	34.4	-17.9	0	58.01	-	-	74	-15.99	272	267	H
1	* 5.15	38.38	Pk	34.4	-18.1	0	54.68	-	-	74	-19.32	272	267	H
3	* 5.15	27.55	RMS	34.4	-18.1	.62	44.47	54	-9.53	-	-	272	267	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/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
2	* 5.146	42.25	Pk	34.4	-18	0	58.65	-	-	74	-15.35	99	192	V
4	* 5.148	30.73	RMS	34.4	-18.1	62	47.65	54	-6.35	-	-	99	192	V
1	* 5.15	39.58	Pk	34.4	-18.1	0	55.88	-	-	74	-18.12	99	192	V
3	* 5.15	29.88	RMS	34.4	-18.1	62	46.8	54	-7.2	-	-	99	192	V

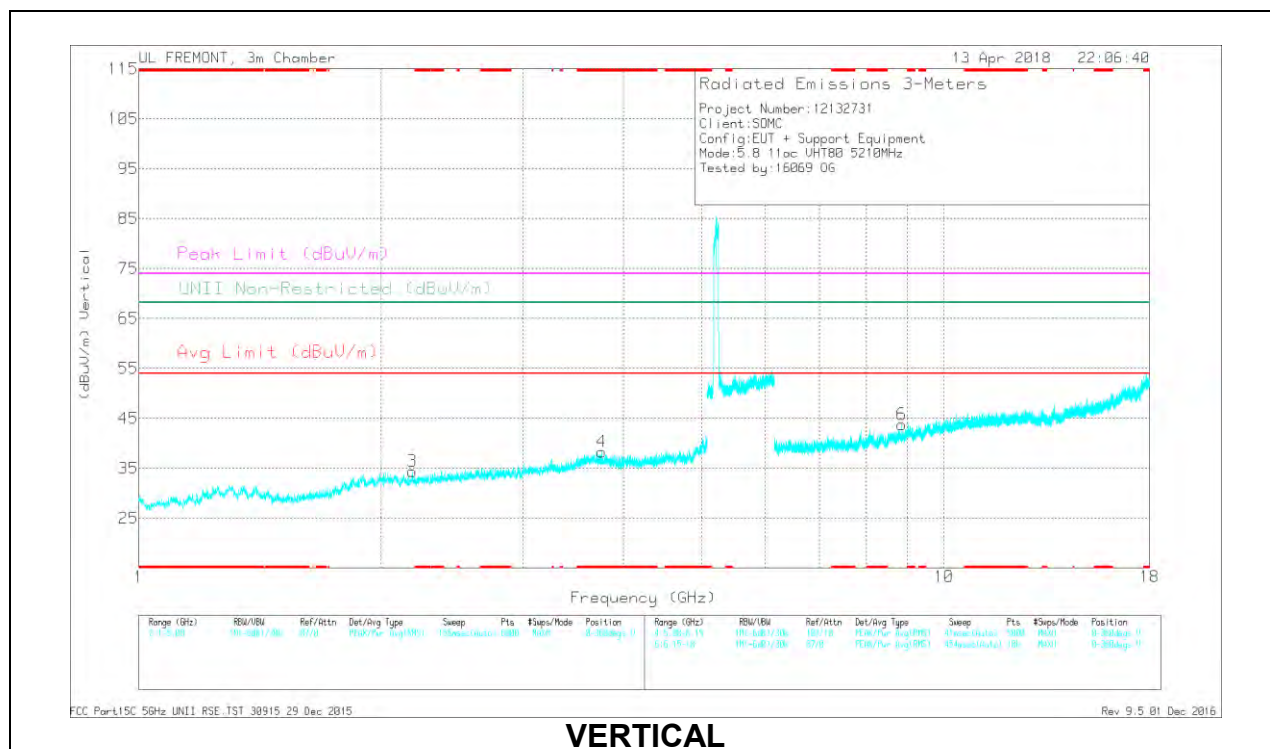
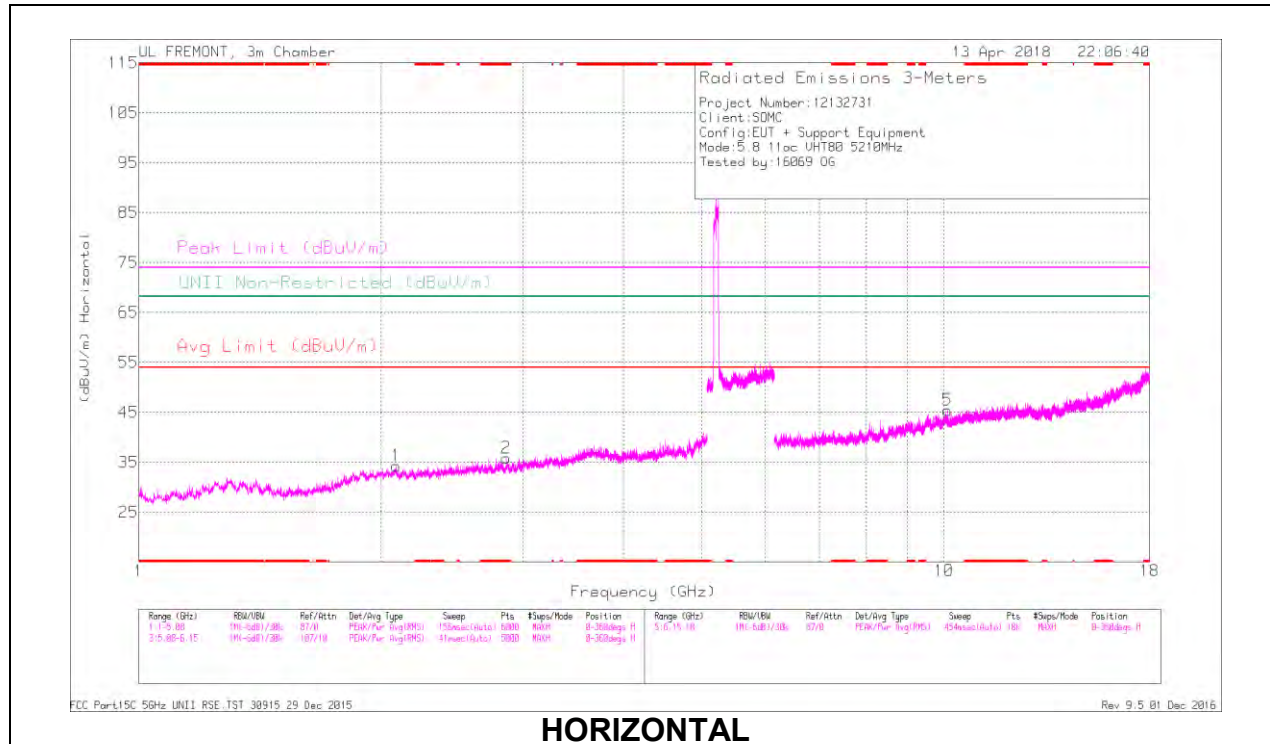
* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

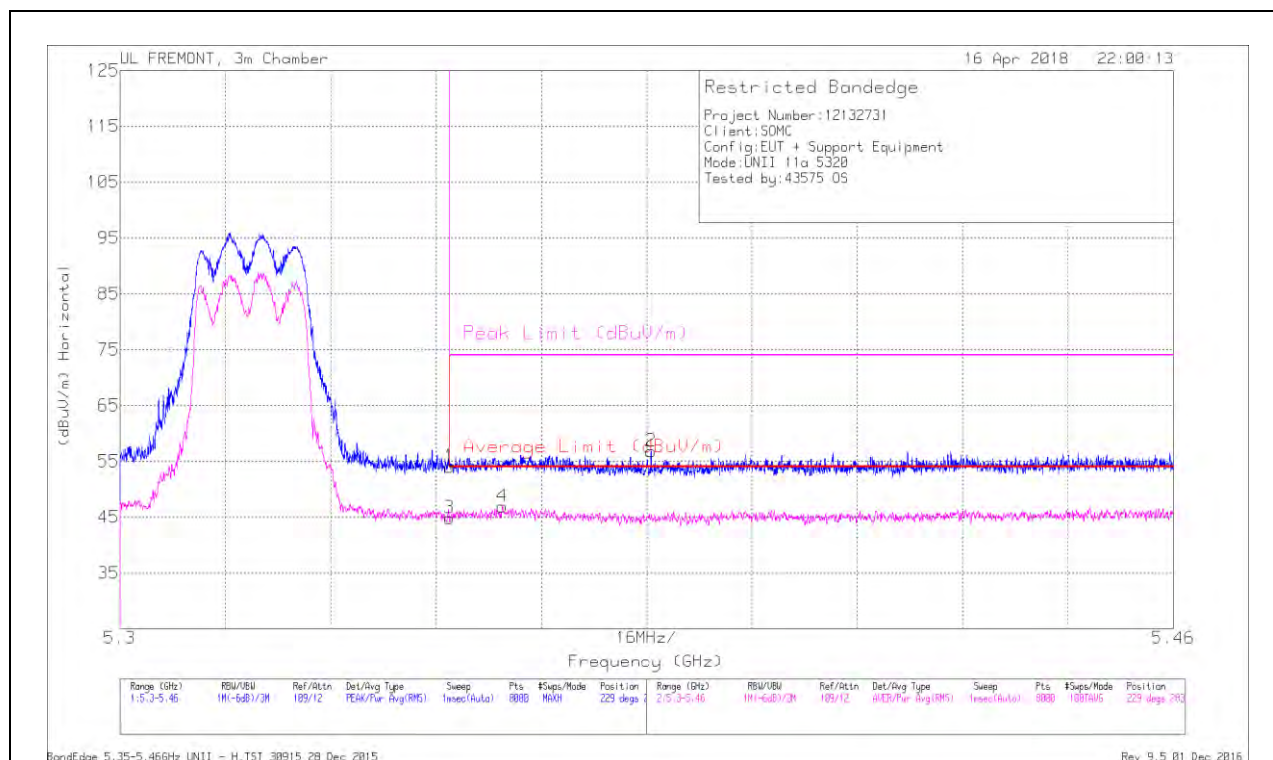
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1120 (dBm)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
2	* 2.857	38.41	PK-U	32.7	-29.8	0	41.31	-	-	74	-32.69	-	-	266	113	H
2	* 2.859	26.53	ADR	32.7	-29.9	.62	29.95	54	-24.05	-	-	-	-	266	113	H
4	* 3.754	38.83	PK-U	33.9	-28.2	0	44.53	-	-	74	-29.47	-	-	118	339	V
4	* 3.755	27.24	ADR	33.9	-28.1	.62	33.66	54	-20.34	-	-	-	-	118	339	V
1	2.088	38.96	PK-U	31.7	-30	0	40.66	-	-	-	-	68.2	-27.54	245	268	H
3	2.185	39.54	PK-U	31.5	-30.1	0	40.94	-	-	-	-	68.2	-27.26	106	305	V
6	8.961	34.44	PK-U	36.1	-22.3	0	48.24	-	-	-	-	68.2	-19.96	37	163	V
5	10.102	34.28	PK-U	37.4	-21.3	0	50.38	-	-	-	-	68.2	-17.82	100	366	H

* - indicates frequency in CFR47 Pt 15 Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

9.1.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



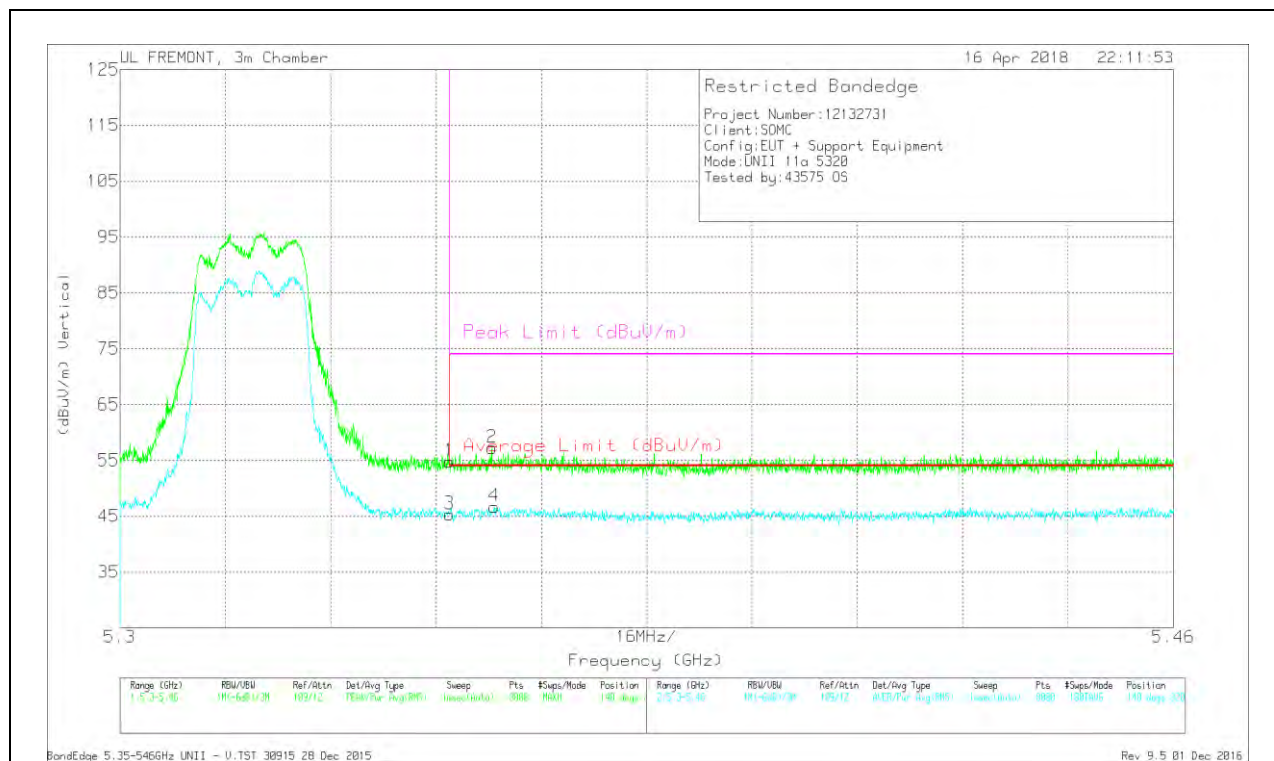
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.35	38.01	Pk	34.7	-18.7	0	54.01	-	-	74	-19.99	229	283	H
3	5.35	28.84	RMS	34.7	-18.7	0	44.84	54	-9.16	-	-	229	283	H
4	5.358	30.39	RMS	34.7	-18.2	0	46.89	54	-7.11	-	-	229	283	H
2	5.381	40.99	Pk	34.8	-19	0	56.79	-	-	74	-17.21	229	283	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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)	Altitude (Dega)	Height (cm)	Polarity
1	5.35	38.79	Pk	34.7	-18.7	0	54.79	-	-	74	-19.21	140	320	V
3	5.35	29.35	RMS	34.7	-18.7	0	45.35	54	-8.65	-	-	140	320	V
2	5.356	40.95	Pk	34.7	-18.4	0	57.25	-	-	74	-16.75	140	320	V
4	5.357	30.32	RMS	34.7	-18.3	0	46.72	54	-7.28	-	-	140	320	V

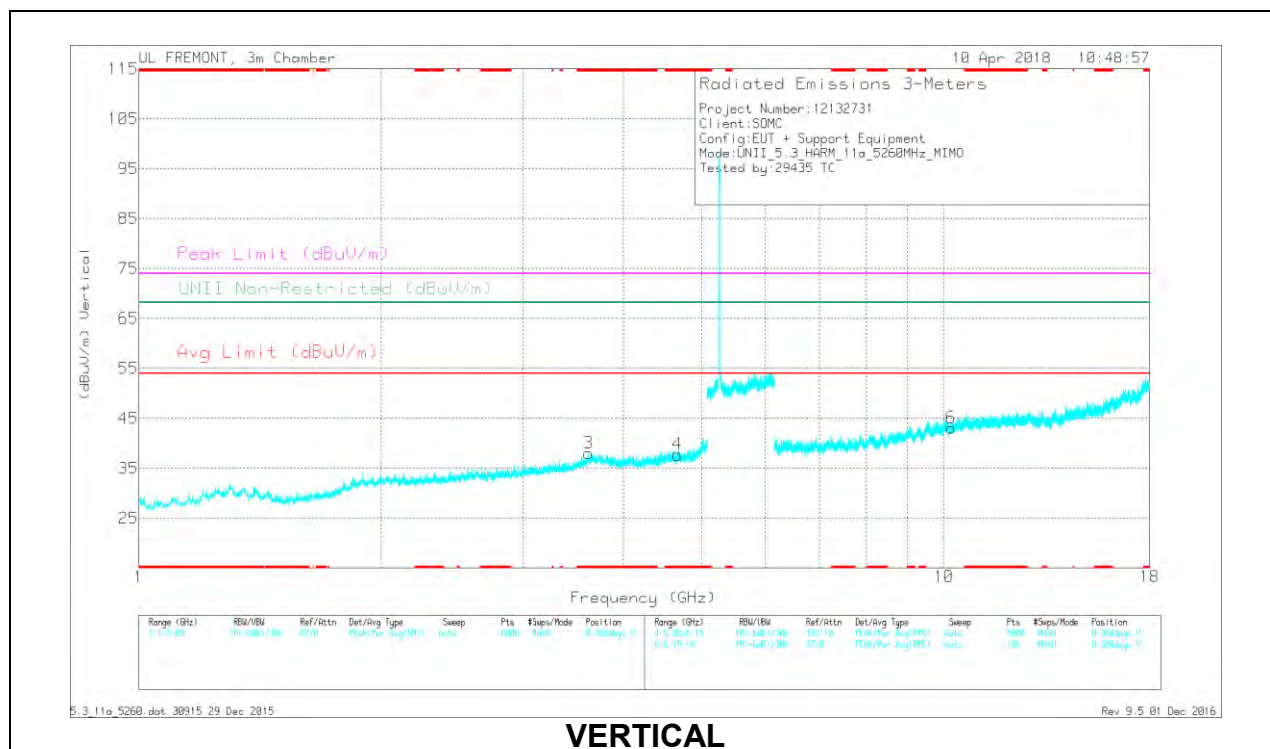
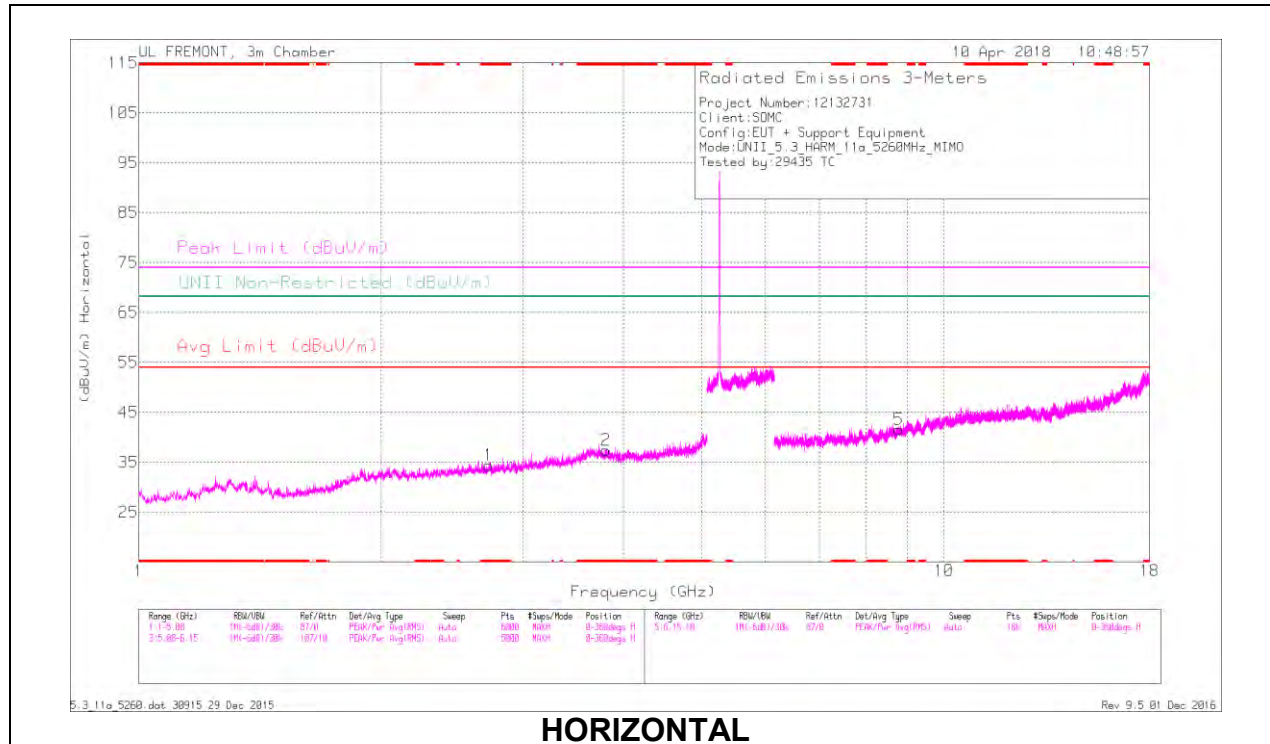
* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

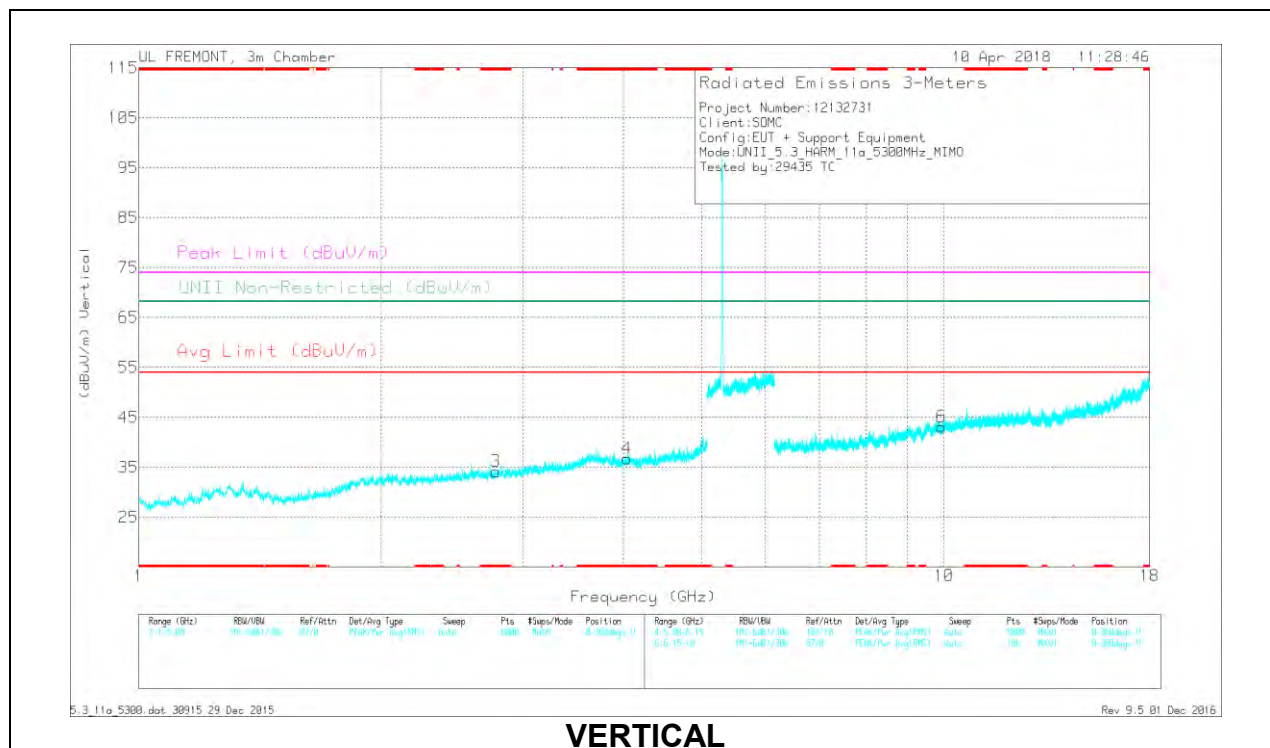
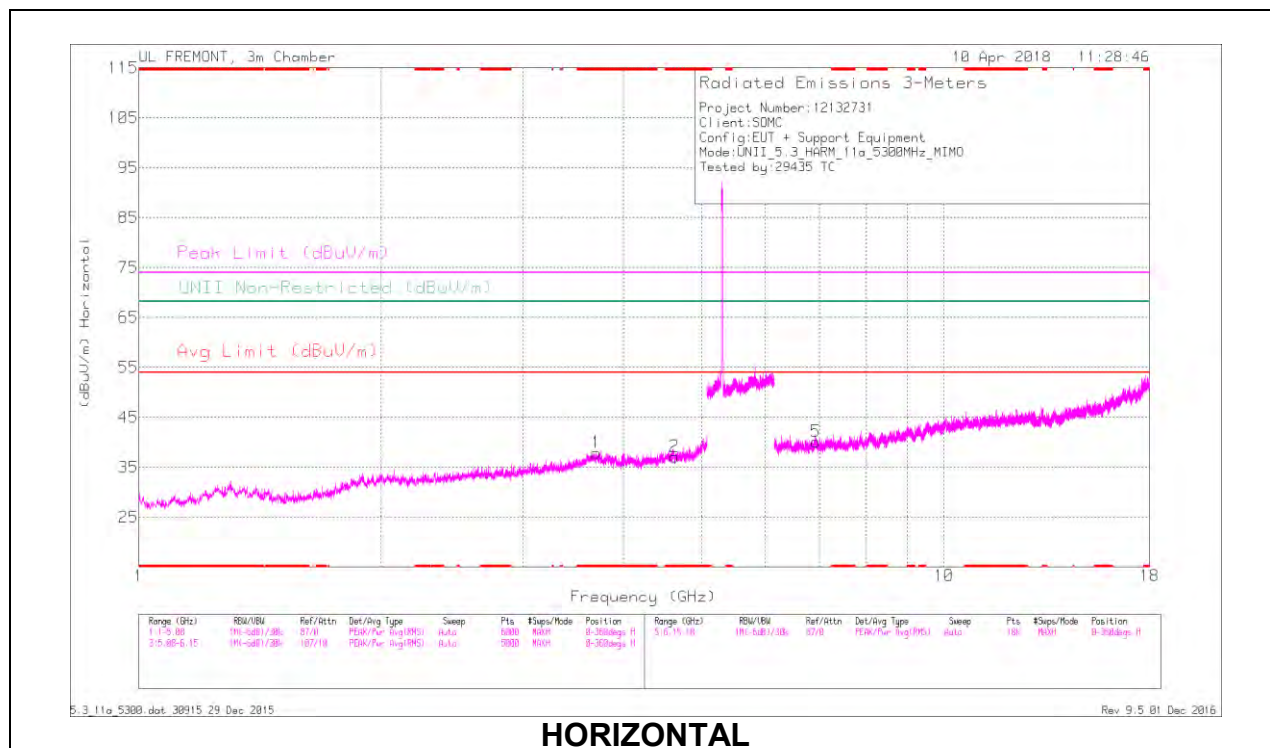
Marker	Frequency (GHz)	Power Reading (dBm)	Det	AF 1120 (dBm)	Amp/Cat/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBm)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Feet)	Height (cm)	Polarity
1	* 2.717	38.24	PK-U	32.5	-29.3	0	41.44	-	-	74	-32.56	-	-	319	235	H
	* 2.718	26.36	ADR	32.5	-29.2	0	29.66	54	-24.34	-	-	-	-	319	235	H
2	* 3.801	38.55	PK-U	33.7	-28.2	0	44.05	-	-	74	-29.95	-	-	102	144	H
	* 3.8	27.16	ADR	33.7	-28.3	0	32.56	54	-21.44	-	-	-	-	102	144	H
3	* 3.619	39.12	PK-U	34.6	-28.7	0	45.02	-	-	74	-28.98	-	-	14	400	V
	* 3.619	27.29	ADR	34.6	-28.7	0	33.19	54	-20.81	-	-	-	-	14	400	V
4	* 4.688	37.77	PK-U	34.1	-27.6	0	44.27	-	-	74	-29.73	-	-	328	268	V
	* 4.689	26.62	ADR	34.1	-27.5	0	33.22	54	-20.78	-	-	-	-	328	268	V
5	8.787	34.47	PK-U	36	-21.7	0	48.77	-	-	-	-	68.2	-19.43	171	164	H
6	10.201	34.64	PK-U	37.4	-21.2	0	50.84	-	-	-	-	68.2	-17.36	140	163	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

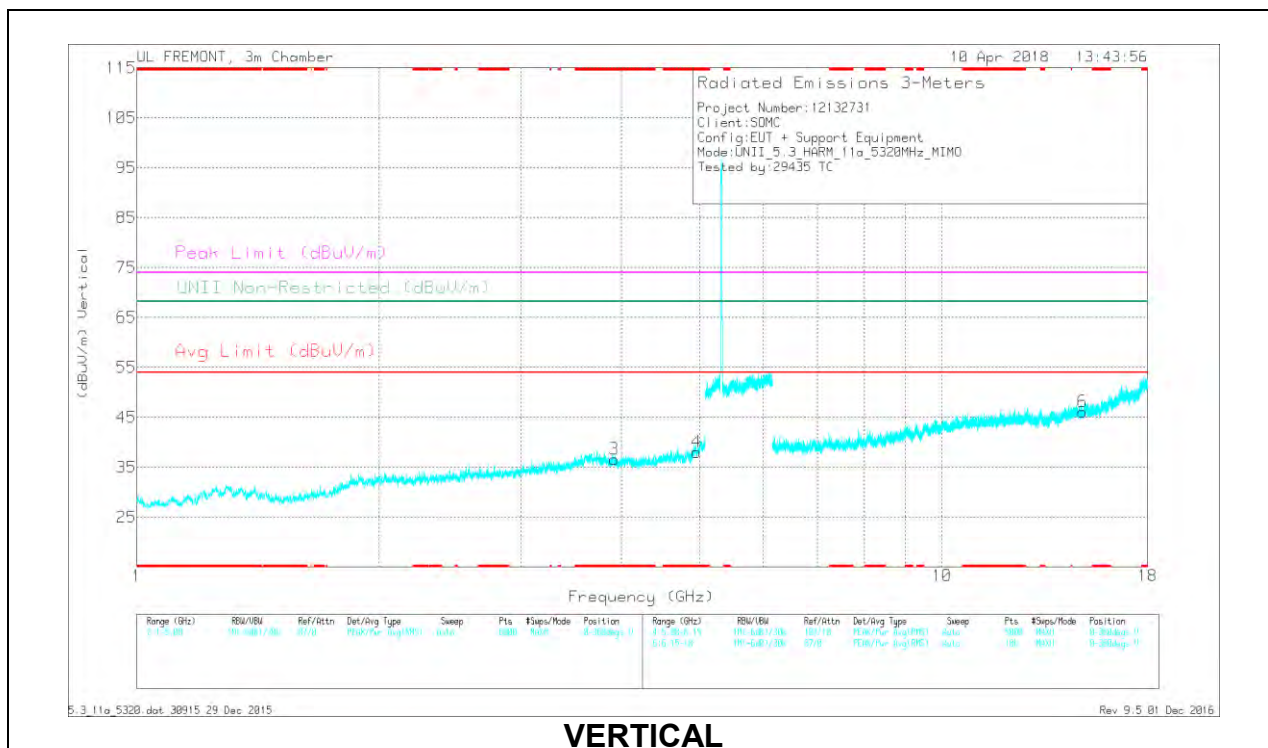
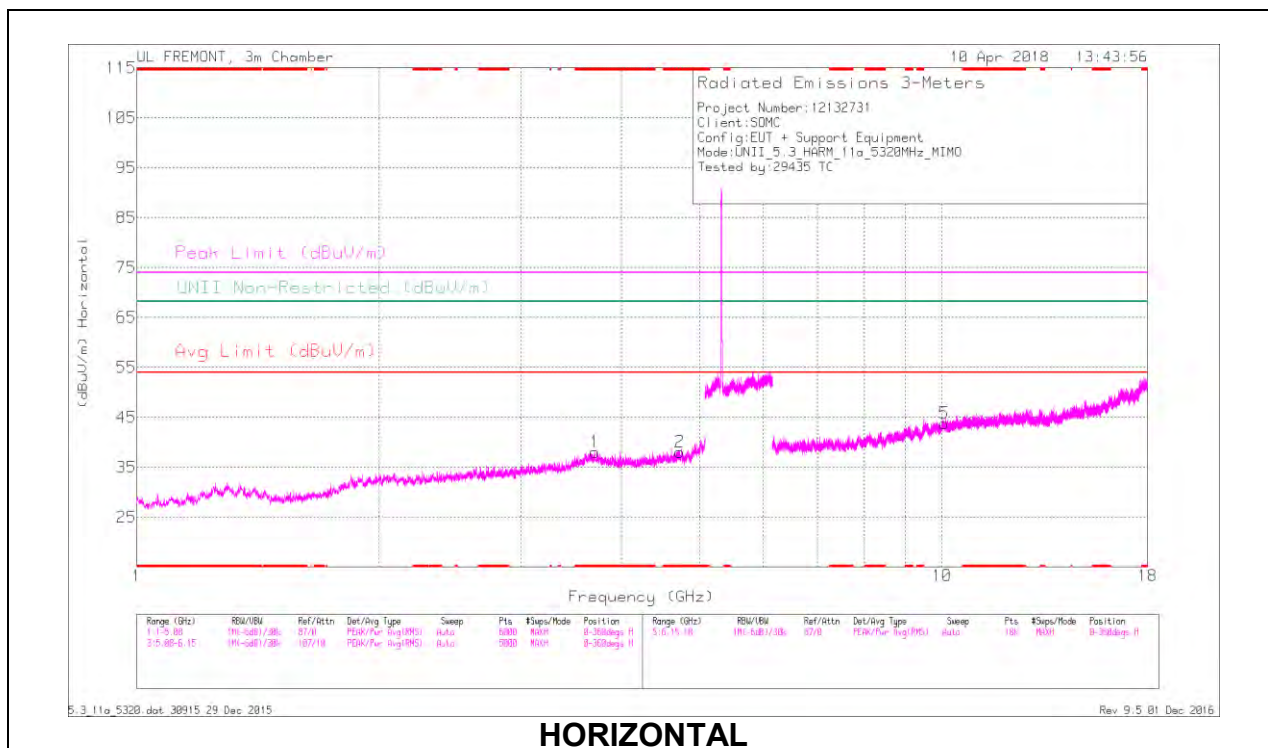
Marker	Frequency (GHz)	Meas Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cable/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.702	38.4	PK-U	34.1	-27.7	0	44.8	-	-	74	-29.2	-	-	124	367	H
	* 3.702	26.77	ADR	34.1	-27.8	0	33.07	54	-20.93	-	-	-	-	124	367	H
2	* 4.625	37.05	PK-U	34.1	-27	0	44.15	-	-	74	-29.85	-	-	14	388	H
	* 4.621	25.95	ADR	34.1	-27.2	0	32.85	54	-21.15	-	-	-	-	14	388	H
3	* 2.78	38.52	PK-U	32.6	-29.7	0	41.42	-	-	74	-32.58	-	-	71	330	V
	* 2.78	26.73	ADR	32.6	-29.6	0	28.73	54	-24.27	-	-	-	-	71	330	V
4	* 4.038	38.49	PK-U	33.5	-28.3	0	43.68	-	-	74	-30.32	-	-	325	395	V
	* 4.04	27.32	ADR	33.5	-28.4	0	32.42	54	-21.58	-	-	-	-	325	395	V
5	6.927	36.46	PK-U	35.7	-25.3	0	46.86	-	-	-	-	68.2	-21.34	166	179	H
6	9.923	33.56	PK-U	37.3	-21.3	0	49.56	-	-	-	-	68.2	-18.64	189	197	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1120 (dBm)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNI Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 3.703	38.71	PK-U	34.1	-27.8	0	45.01	-	-	74	-28.99	-	-	198	114	H
	* 3.702	26.54	ADR	34.1	-27.7	0	32.94	54	-21.06	-	-	-	-	198	114	H
2	* 4.721	38.13	PK-U	34	-28.2	0	43.93	-	-	74	-30.07	-	-	25	111	H
	* 4.723	26.93	ADR	34	-28.3	0	32.63	54	-21.37	-	-	-	-	25	111	H
3	* 3.915	38.17	PK-U	33.5	-28.3	0	43.37	-	-	74	-30.63	-	-	263	259	V
	* 3.914	26.46	ADR	33.5	-28.3	0	31.66	54	-22.34	-	-	-	-	263	259	V
4	* 4.956	37.86	PK-U	34.1	-27.2	0	44.76	-	-	74	-29.24	-	-	17	396	V
	* 4.955	26.31	ADR	34.1	-27.1	0	33.31	54	-20.69	-	-	-	-	17	396	V
5	10.064	34.04	PK-U	37.3	-21.2	0	50.14	-	-	-	-	68.2	-18.06	201	167	H
6	14.945	34.93	PK-U	40	-21.9	0	53.03	-	-	-	-	68.2	-15.17	232	125	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

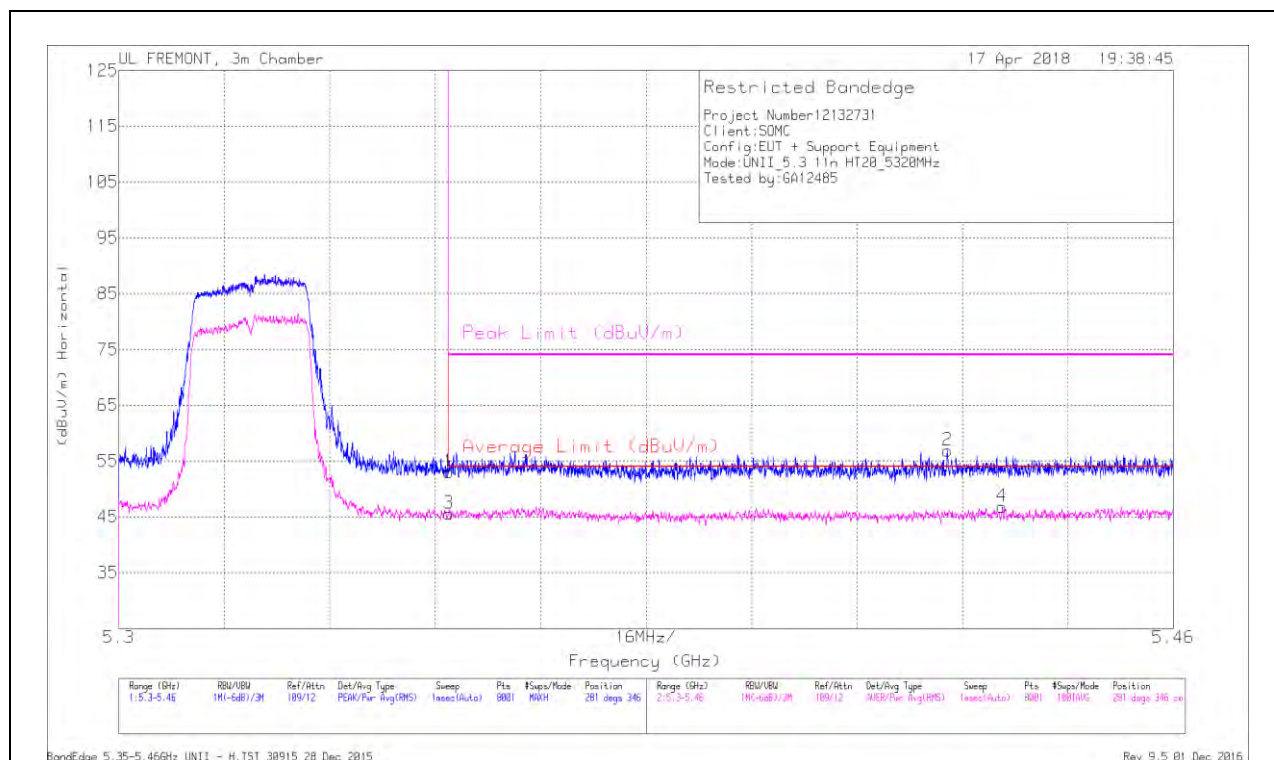
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



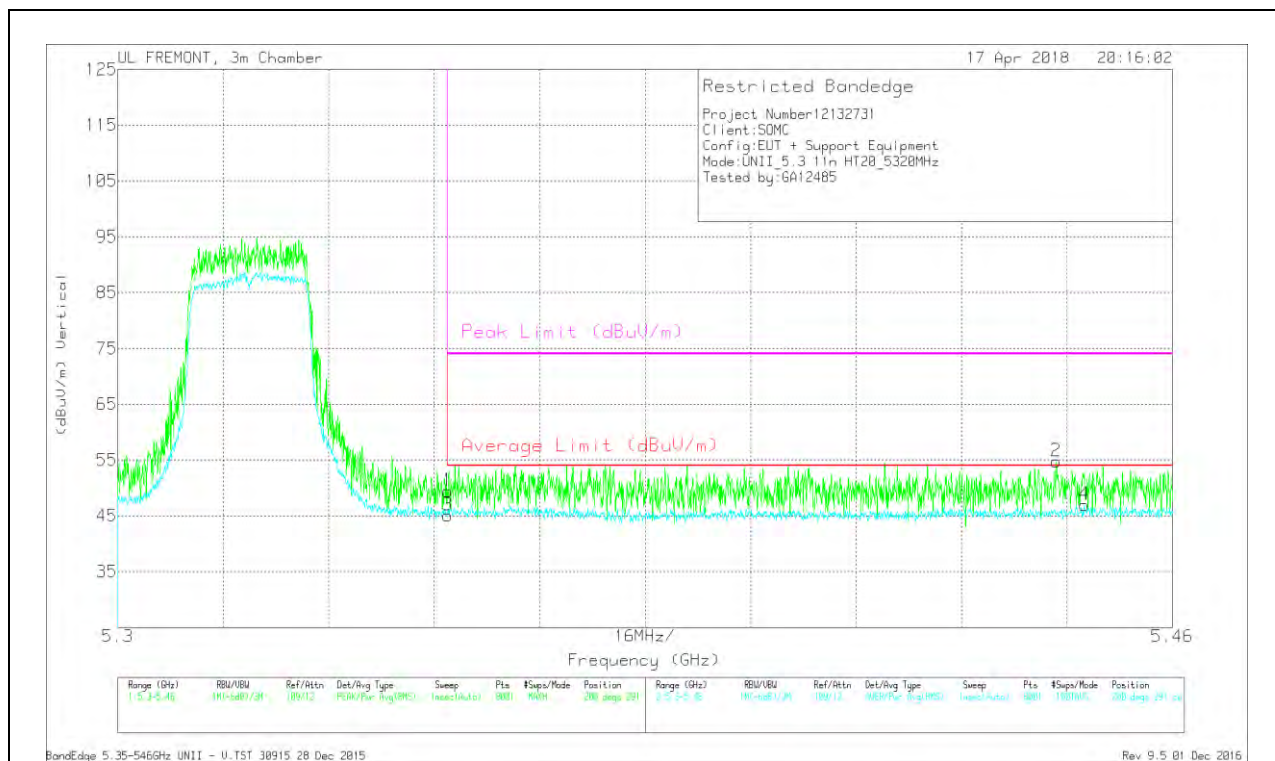
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dBm)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Dega)	Height (cm)	Polarity
1	5.35	37.04	Pk	34.7	-18.7	0	53.04	-	-	74	-20.96	281	346	H
3	5.35	29.48	RMS	34.7	-18.7	.1	45.58	54	-8.42	-	-	281	346	H
2	5.426	41.18	Pk	34.7	-19	0	56.88	-	-	74	-17.12	281	346	H
4	5.434	31.34	RMS	34.7	-19.3	.1	46.84	54	-7.16	-	-	281	346	H

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (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)	Altitude (Degs)	Height (cm)	Polarity
1	5.35	33.47	Pk	34.7	-18.7	0	49.47	-	-	74	-24.53	200	291	V
3	5.35	29.02	RMS	34.7	-18.7	.1	45.12	54	-8.88	-	-	200	291	V
2	5.442	39.5	Pk	34.7	-19.4	0	54.8	-	-	74	-19.2	200	291	V
4	5.447	31.39	RMS	34.7	-19.3	.1	46.89	54	-7.11	-	-	200	291	V

* - indicates frequency in CFR47 Pt 15 Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

