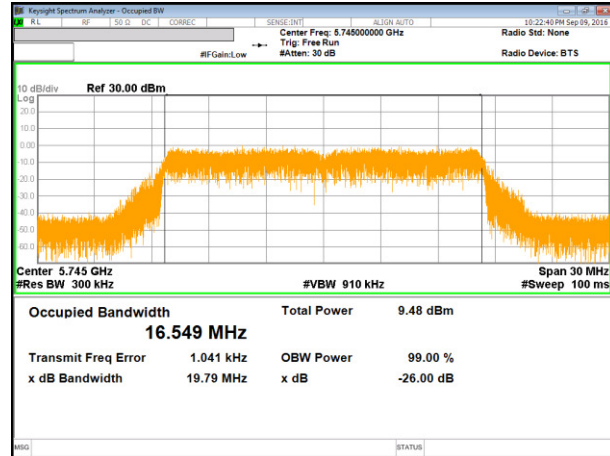
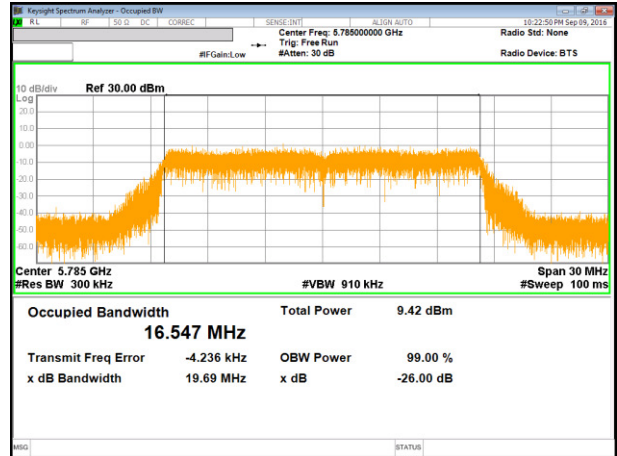


UNII 5.8 GHz IEEE 802.11a mode

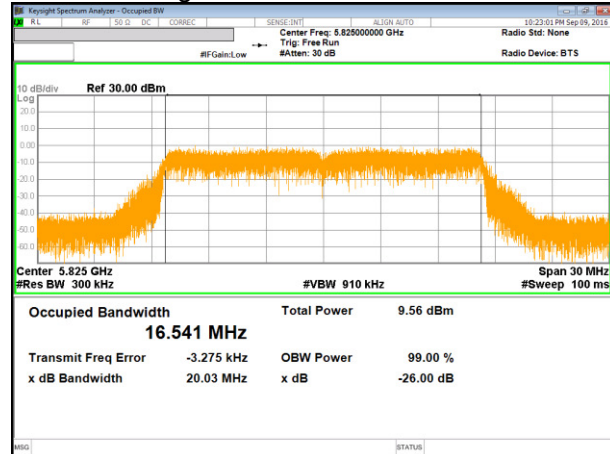
11a Mode Low Channel



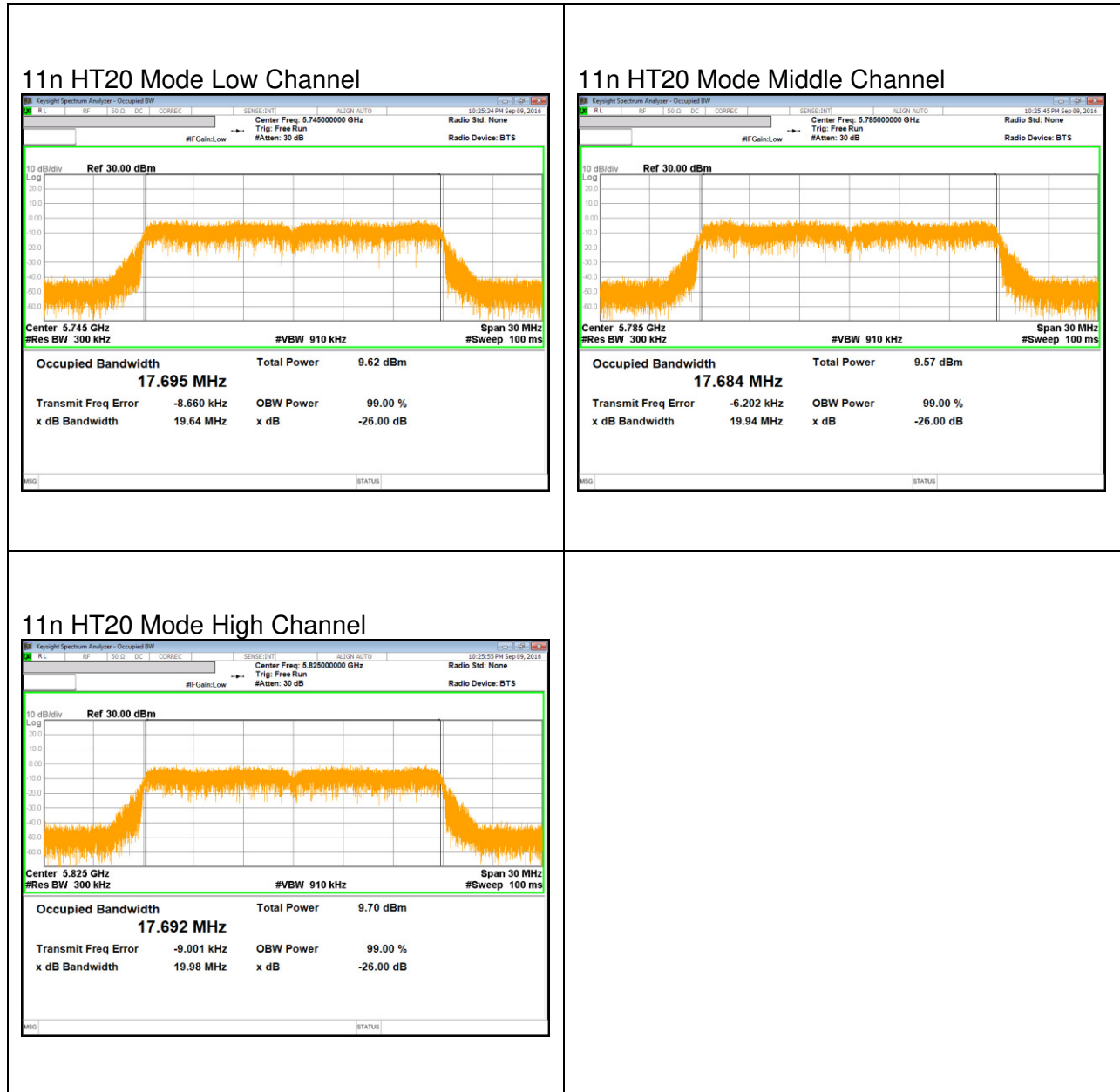
11a Mode Middle Channel



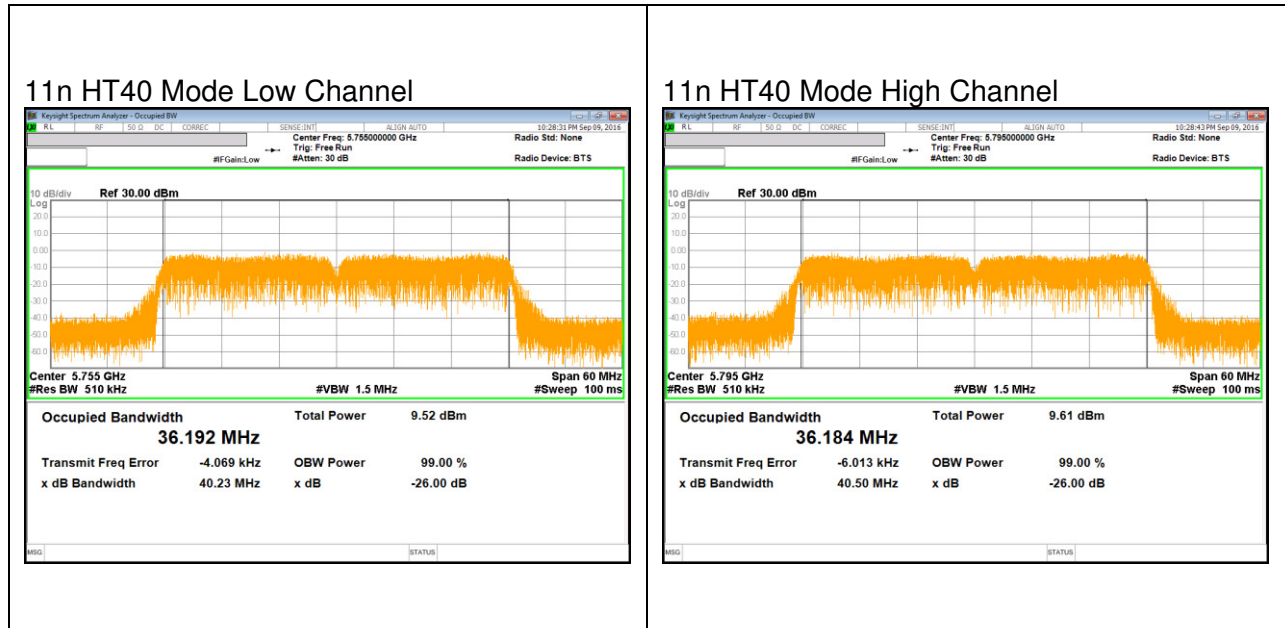
11a Mode High Channel



UNII 5.8 GHz IEEE 802.11n HT20 mode



UNII 5.8 GHz IEEE 802.11n HT40 mode



10.4. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1) (2) (3)
RSS-247 §6.2.1 (2), §6.2.2 (2), §6.2.3 (2), §6.2.4 (2)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band 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 MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, 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.

For the 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.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

5 GHz

Frequency Band	Antenna Gain
[MHz]	[dBi]
5150 - 5250	-0.05
5250 - 5350	0.91
5470 - 5725	0.69
5725 - 5850	-1.52

RESULTS

10.4.1. 802.11a MODE IN THE 5.2 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 PPSD [dBi]
Low	5180	19.41	16.55	-0.05	-0.05
Mid	5200	19.55	16.55	-0.05	-0.05
High	5240	19.66	16.54	-0.05	-0.05

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	23.88	22.19	23.93	23.88	11.00	10.00	10.00
Mid	5200	23.91	22.19	23.96	23.91	11.00	10.00	10.00
High	5240	23.94	22.18	23.99	23.94	11.00	10.00	10.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	12.56	23.88	-11.32
Mid	5200	12.73	23.91	-11.18
High	5240	13.14	23.94	-10.80

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	2.30	10.00	-7.70
Mid	5200	2.44	10.00	-7.57
High	5240	3.01	10.00	-6.99

10.4.2. 802.11n HT20 MODE IN THE 5.2 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 PPSD [dBi]
Low	5180	19.90	17.69	-0.05	-0.05
Mid	5200	19.70	17.68	-0.05	-0.05
High	5240	19.66	17.68	-0.05	-0.05

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5180	23.99	22.48	24.04	23.99	11.00	10.00	10.00
Mid	5200	23.94	22.48	23.99	23.94	11.00	10.00	10.00
High	5240	23.94	22.47	23.99	23.94	11.00	10.00	10.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5180	12.79	23.99	-11.20
Mid	5200	12.91	23.94	-11.03
High	5240	13.14	23.94	-10.80

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5180	2.25	10.00	-7.75
Mid	5200	2.54	10.00	-7.46
High	5240	2.48	10.00	-7.52

10.4.3. 802.11n HT40 MODE IN THE 5.2 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 PPSD [dBi]
Low	5190	40.44	36.16	-0.05	-0.05
High	5230	40.39	36.25	-0.05	-0.05

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5190	24.00	23.00	24.05	24.00	11.00	10.00	10.00
High	5230	24.00	23.00	24.05	24.00	11.00	10.00	10.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5190	11.90	24.00	-12.10
High	5230	13.08	24.00	-10.92

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5190	-1.63	10.00	-11.63
High	5230	-0.48	10.00	-10.48

10.4.4. 802.11a MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	19.52	16.54	0.91	0.91
Mid	5300	19.63	16.53	0.91	0.91
High	5320	19.51	16.55	0.91	0.91

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	23.90	22.18	22.99	22.99	11.00	11.00	11.00
Mid	5300	23.93	22.18	23.02	23.02	11.00	11.00	11.00
High	5320	23.90	22.19	22.99	22.99	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	13.00	22.99	-10.00
Mid	5300	13.17	23.02	-9.85
High	5320	13.27	22.99	-9.73

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	2.85	11.00	-8.15
Mid	5300	2.76	11.00	-8.25
High	5320	3.11	11.00	-7.89

10.4.5. 802.11n HT20 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5260	19.74	17.69	0.91	0.91
Mid	5300	19.78	17.69	0.91	0.91
High	5320	19.91	17.71	0.91	0.91

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5260	23.95	22.48	23.04	23.04	11.00	11.00	11.00
Mid	5300	23.96	22.48	23.05	23.05	11.00	11.00	11.00
High	5320	23.99	22.48	23.08	23.08	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5260	13.22	23.04	-9.83
Mid	5300	13.38	23.05	-9.67
High	5320	13.44	23.08	-9.64

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5260	2.71	11.00	-8.30
Mid	5300	2.91	11.00	-8.09
High	5320	3.46	11.00	-7.54

10.4.6. 802.11n HT40 MODE IN THE 5.3 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
Low	5270	40.31	36.17	0.91	0.91
High	5310	40.35	36.17	0.91	0.91

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5270	24.00	23.00	23.09	23.09	11.00	11.00	11.00
High	5310	24.00	23.00	23.09	23.09	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5270	13.24	23.09	-9.85
High	5310	13.42	23.09	-9.67

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5270	-0.16	11.00	-11.16
High	5310	0.08	11.00	-10.92

10.4.7. 802.11a MODE IN THE 5.5 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 PPSD [dBi]
Low	5500	19.60	16.53	0.69	0.69
Mid	5580	19.75	16.54	0.69	0.69
High	5700	19.68	16.55	0.69	0.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	23.92	22.18	23.23	23.23	11.00	11.00	11.00
Mid	5580	23.95	22.19	23.26	23.26	11.00	11.00	11.00
High	5700	23.94	22.19	23.25	23.25	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	12.39	23.23	-10.84
Mid	5580	12.24	23.26	-11.02
High	5700	13.03	23.25	-10.23

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	2.32	11.00	-8.68
Mid	5580	1.90	11.00	-9.10
High	5700	2.57	11.00	-8.43

10.4.8. 802.11n HT20 MODE IN THE 5.5 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 PPSD [dBi]
Low	5500	19.92	17.70	0.69	0.69
Mid	5580	19.87	17.68	0.69	0.69
High	5700	19.78	17.70	0.69	0.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5500	23.99	22.48	23.30	23.30	11.00	11.00	11.00
Mid	5580	23.98	22.48	23.29	23.29	11.00	11.00	11.00
High	5700	23.96	22.48	23.27	23.27	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5500	12.52	23.30	-10.79
Mid	5580	12.34	23.29	-10.95
High	5700	13.14	23.27	-10.13

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5500	1.98	11.00	-9.03
Mid	5580	1.93	11.00	-9.07
High	5700	2.84	11.00	-8.16

10.4.9. 802.11n HT40 MODE IN THE 5.5 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 PPSD [dBi]
Low	5510	40.34	36.18	0.69	0.69
Mid	5550	39.97	36.20	0.69	0.69
High	5670	40.56	36.20	0.69	0.69

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5510	24.00	23.00	23.31	23.31	11.00	11.00	11.00
Mid	5550	24.00	23.00	23.31	23.31	11.00	11.00	11.00
High	5670	24.00	23.00	23.31	23.31	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD						
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5510	13.45	23.31	-9.86
Mid	5550	13.30	23.31	-10.01
High	5670	13.20	23.31	-10.11

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5510	0.23	11.00	-10.77
Mid	5550	-0.18	11.00	-11.18
High	5670	-0.25	11.00	-11.25

10.4.10. 802.11a MODE IN THE 5.8 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 PPSD [dBi]
Low	5745	19.29	16.55	-1.52	-1.52
Mid	5785	19.60	16.55	-1.52	-1.52
High	5825	19.58	16.54	-1.52	-1.52

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	23.85	22.19	25.37	23.85	30.00	30.00	30.00
Mid	5785	23.92	22.19	25.44	23.92	30.00	30.00	30.00
High	5825	23.92	22.19	25.44	23.92	30.00	30.00	30.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	9.94	23.85	-13.91
Mid	5785	9.81	23.92	-14.11
High	5825	9.92	23.92	-13.99

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	-3.08	30.00	-33.08
Mid	5785	-3.41	30.00	-33.41
High	5825	-3.13	30.00	-33.13

10.4.11. 802.11n HT20 MODE IN THE 5.8 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 PPSD [dBi]
Low	5745	19.73	17.70	-1.52	-1.52
Mid	5785	19.85	17.68	-1.52	-1.52
High	5825	19.93	17.69	-1.52	-1.52

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5745	23.95	22.48	25.47	23.95	30.00	30.00	30.00
Mid	5785	23.98	22.48	25.50	23.98	30.00	30.00	30.00
High	5825	23.99	22.48	25.51	23.99	30.00	30.00	30.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5745	9.99	23.95	-13.96
Mid	5785	9.99	23.98	-13.99
High	5825	10.00	23.99	-13.99

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5745	-3.29	30.00	-33.29
Mid	5785	-3.47	30.00	-33.47
High	5825	-3.56	30.00	-33.56

10.4.12. 802.11n HT40 MODE IN THE 5.8 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 PPSD [dBi]
Low	5755	40.35	36.19	-1.52	-1.52
High	5795	40.36	36.18	-1.52	-1.52

Limits

Channel	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
Low	5755	24.00	23.00	25.52	24.00	30.00	30.00	30.00
High	5795	24.00	23.00	25.52	24.00	30.00	30.00	30.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
Low	5755	10.01	24.00	-13.99
High	5795	9.95	24.00	-14.05

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
Low	5755	-6.53	30.00	-36.53
High	5795	-6.68	30.00	-36.68

10.4.13. 802.11a MODE AT STRADDLE CHANNEL

Bandwidth and Antenna Gain

Portion	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
UNII-2C	5720	14.84	13.27	0.69	0.69
UNII-3	5720	4.84	3.27	0.69	0.69
Whole	5720	19.67	16.54	0.69	0.69

Limits

Portion	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
UNII-2C	5720	22.71	21.23	22.02	22.02	11.00	11.00	11.00
UNII-3	5720	17.85	15.14	17.16	17.16	11.00	11.00	11.00
Whole	5720	23.94	22.18	23.25	23.25	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Portion	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
UNII-2C	5720	11.96	22.02	-10.06
UNII-3	5720	5.87	17.16	-11.29
Whole	5720	12.92	23.25	-10.33

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
144	5720	2.56	11.00	-8.44

10.4.14. 802.11n HT20 MODE AT STRADDLE CHANNEL

Bandwidth and Antenna Gain

Portion	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
UNII-2C	5720	14.94	13.85	0.69	0.69
UNII-3	5720	4.94	3.85	0.69	0.69
Whole	5720	19.88	17.69	0.69	0.69

Limits

Portion	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
UNII-2C	5720	22.74	21.41	22.05	22.05	11.00	11.00	11.00
UNII-3	5720	17.94	15.85	17.25	17.25	11.00	11.00	11.00
Whole	5720	23.98	22.48	23.29	23.29	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
---------------------------	------	--

Output Power Results

Portion	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
UNII-2C	5720	12.04	22.05	-10.01
UNII-3	5720	6.53	17.25	-10.72
Whole	5720	13.12	23.29	-10.18

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
144	5720	2.67	11.00	-8.33

10.4.15. 802.11n HT40 MODE AT STRADDLE CHANNEL

Bandwidth and Antenna Gain

Portion	Frequency [MHz]	Min 26 dB BW [MHz]	Min 99% BW [MHz]	Directional Gain for Power [dBi]	Directional Gain for PPSD [dBi]
UNII-2C	5710	35.01	33.10	0.69	0.69
UNII-3	5710	5.01	3.10	0.69	0.69
Whole	5710	40.01	36.19	0.69	0.69

Limits

Portion	Frequency [MHz]	FCC Power Limit [dBm]	IC EIRP Limit [dBm]	Max IC Power [dBm]	Power Limit [dBm]	FCC PPSD Limit [dBm]	IC eirp PSD Limit [dBm]	PPSD Limit [dBm]
UNII-2C	5710	24.00	23.00	23.31	23.31	11.00	11.00	11.00
UNII-3	5710	17.99	14.91	17.30	17.30	11.00	11.00	11.00
Whole	5710	24.00	23.00	23.31	23.31	11.00	11.00	11.00

Duty Cycle CF [dB]	0.00	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

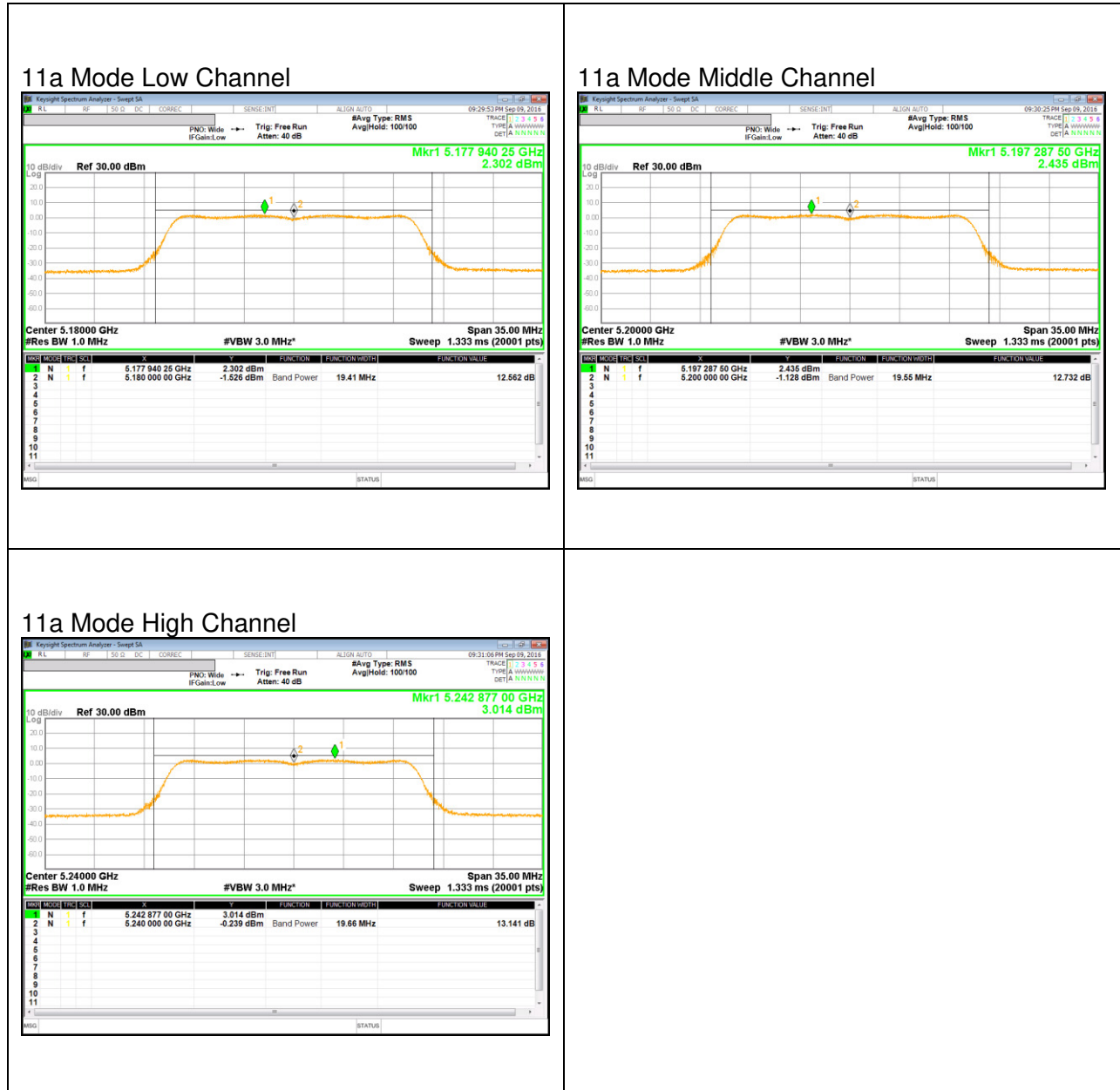
Portion	Frequency [MHz]	Meas Power [dBm]	Power Limit [dBm]	Power Margin [dB]
UNII-2C	5710	12.63	23.31	-10.68
UNII-3	5710	3.08	17.30	-14.22
Whole	5710	13.09	23.31	-10.22

PPSD Results

Channel	Frequency [MHz]	Meas PPSD [dBm]	PPSD Limit [dBm]	PPSD Margin [dB]
142	5710	-0.27	11.00	-11.27

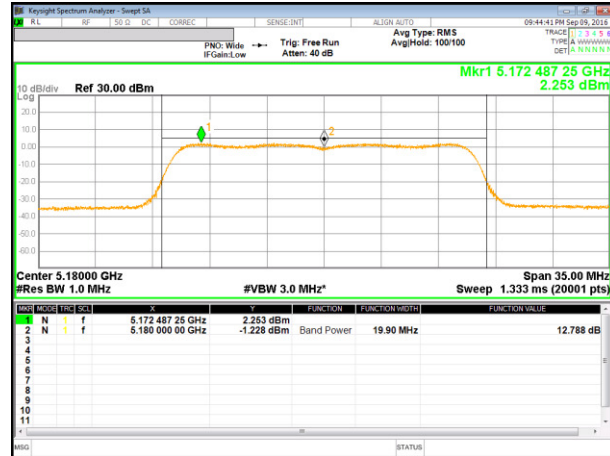
10.4.16. OUTPUT POWER AND PPSD PLOTS

UNII 5.2 GHz IEEE 802.11a mode

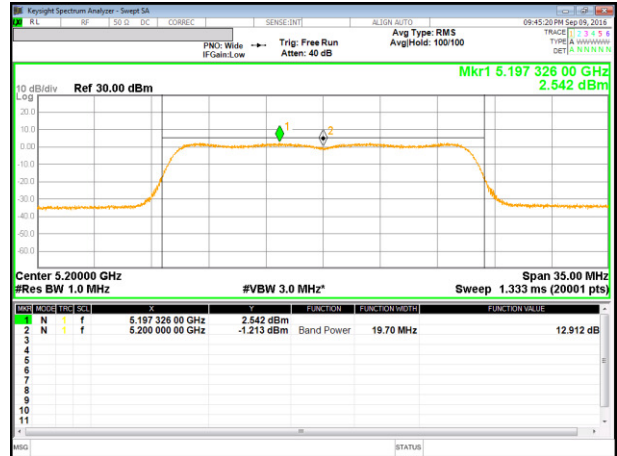


UNII 5.2 GHz IEEE 802.11n HT20 mode

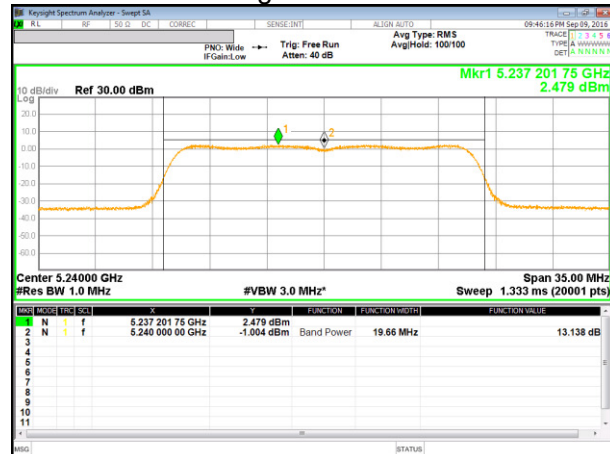
11n HT20 Mode Low Channel



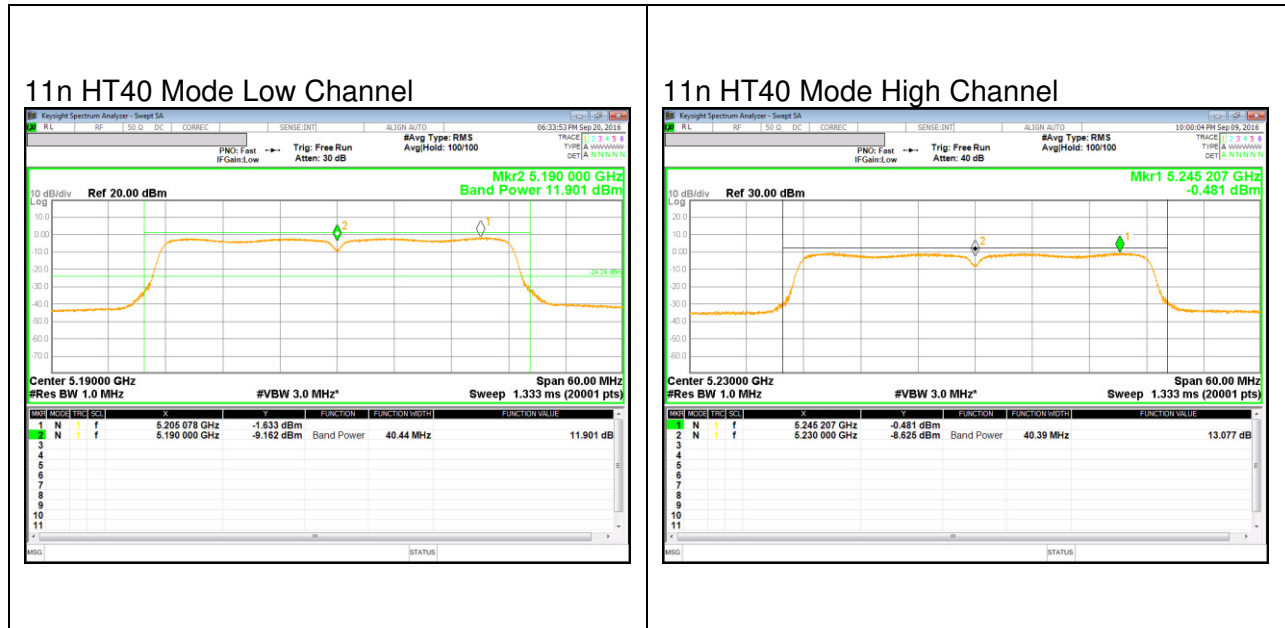
11n HT20 Mode Middle Channel



11n HT20 Mode High Channel

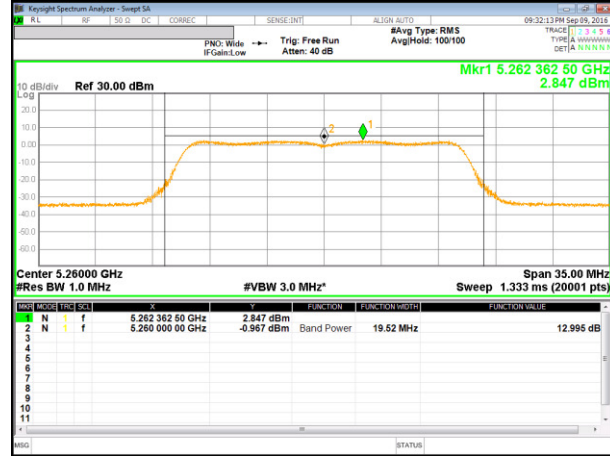


UNII 5.2 GHz IEEE 802.11n HT40 mode

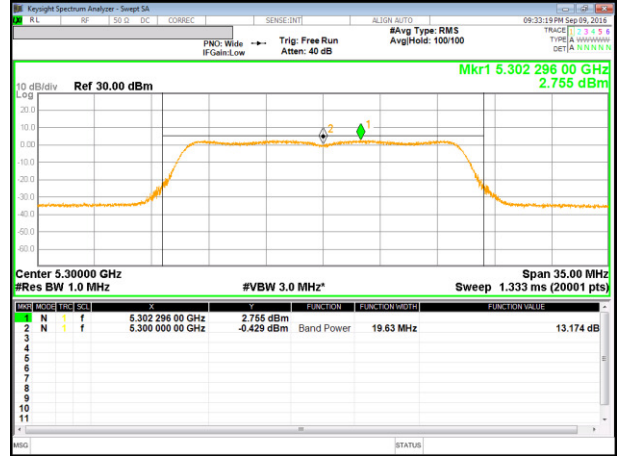


UNII 5.3 GHz IEEE 802.11a mode

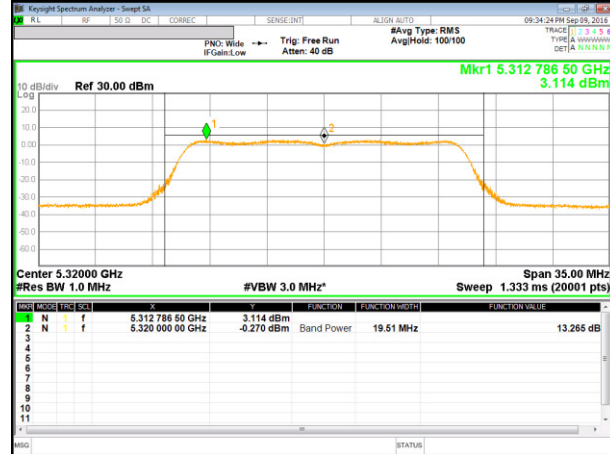
11a Mode Low Channel Primary



11a Mode Middle Channel Secondary

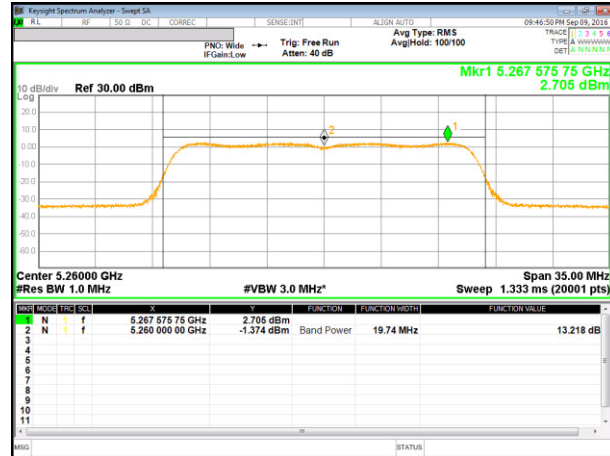


11a Mode High Channel Primary

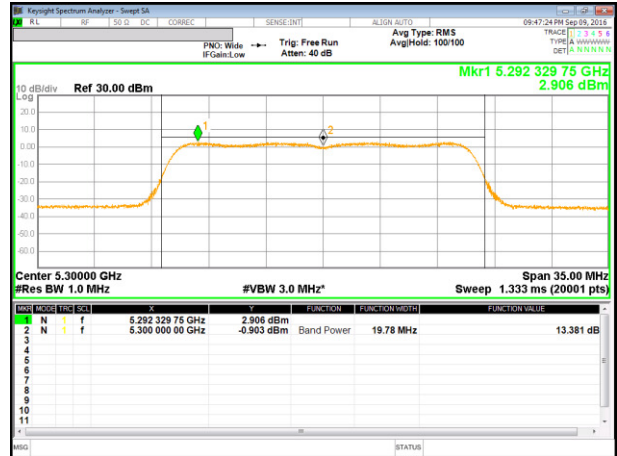


UNII 5.3 GHz IEEE 802.11n HT20 mode

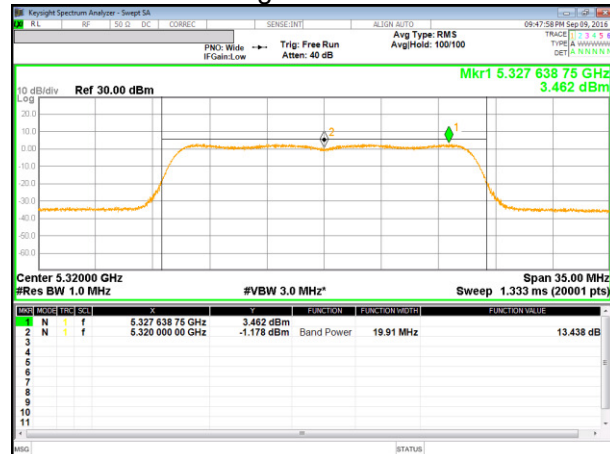
11n HT20 Mode Low Channel



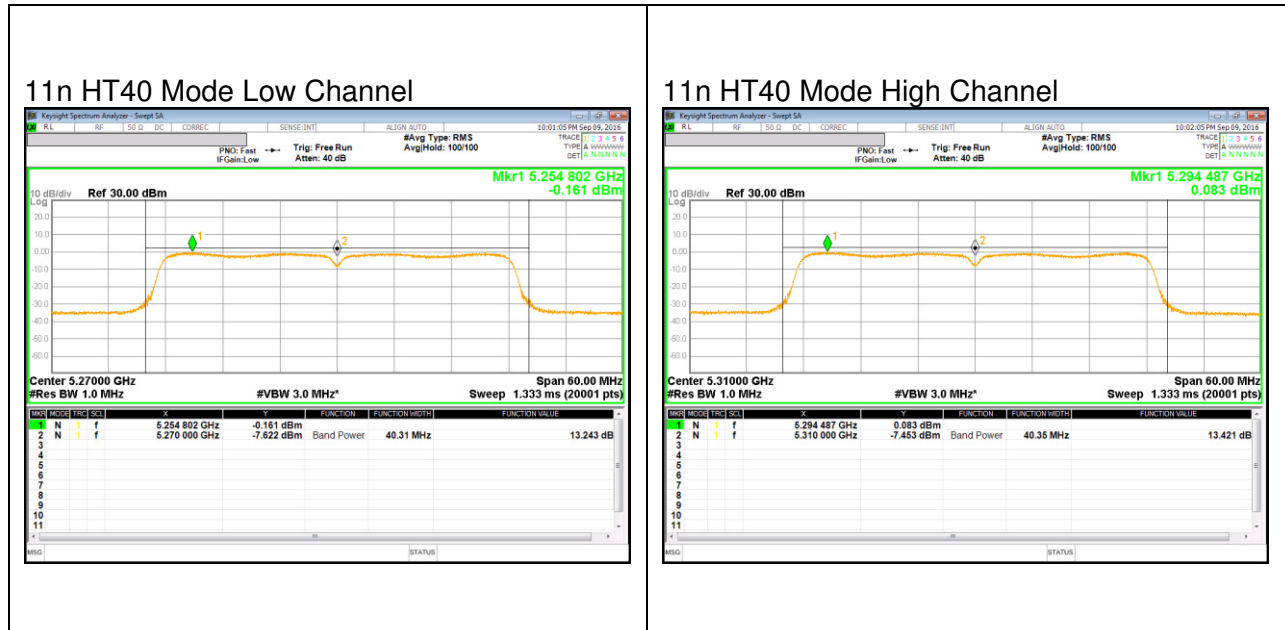
11n HT20 Mode Middle Channel



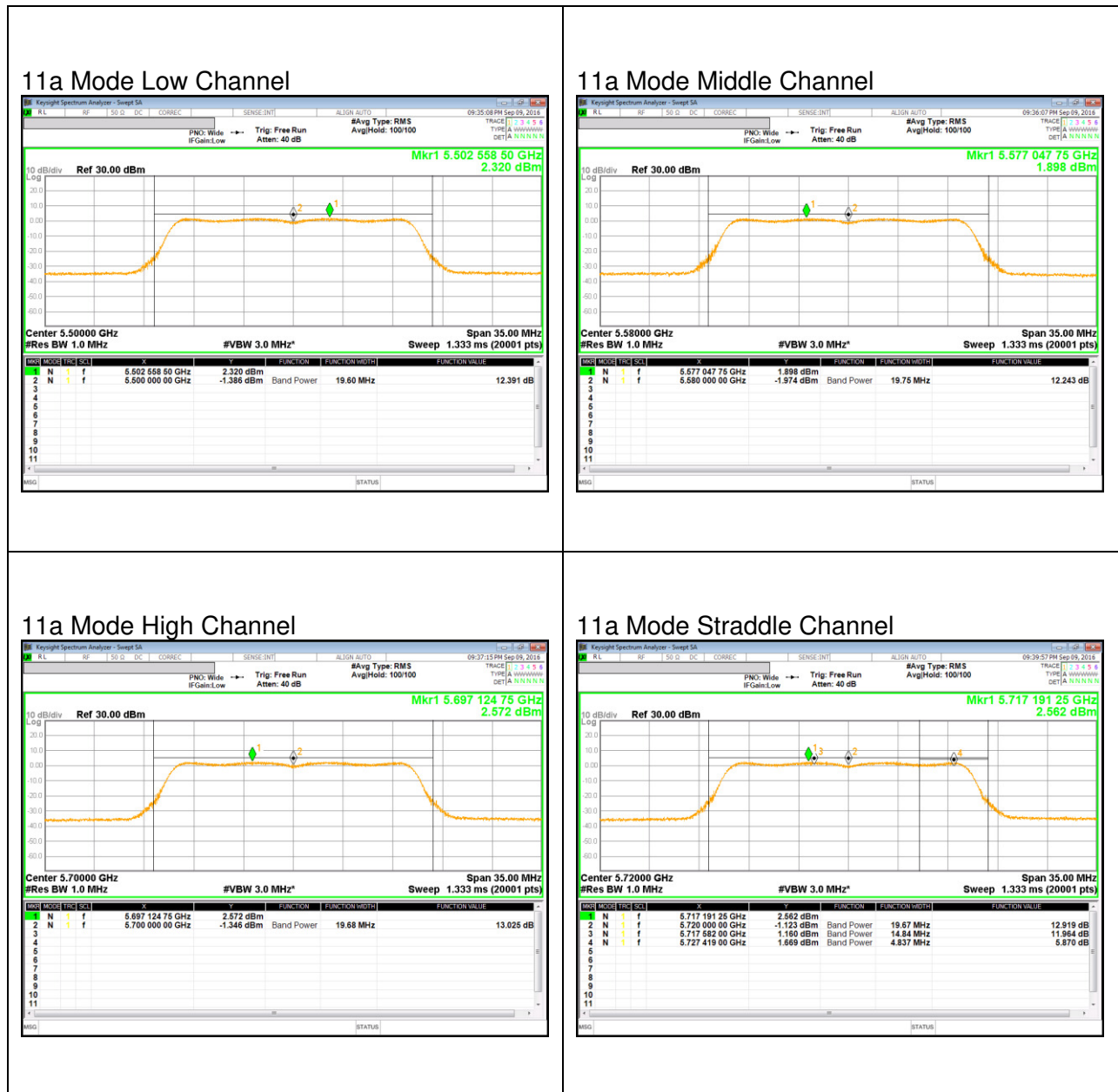
11n HT20 Mode High Channel



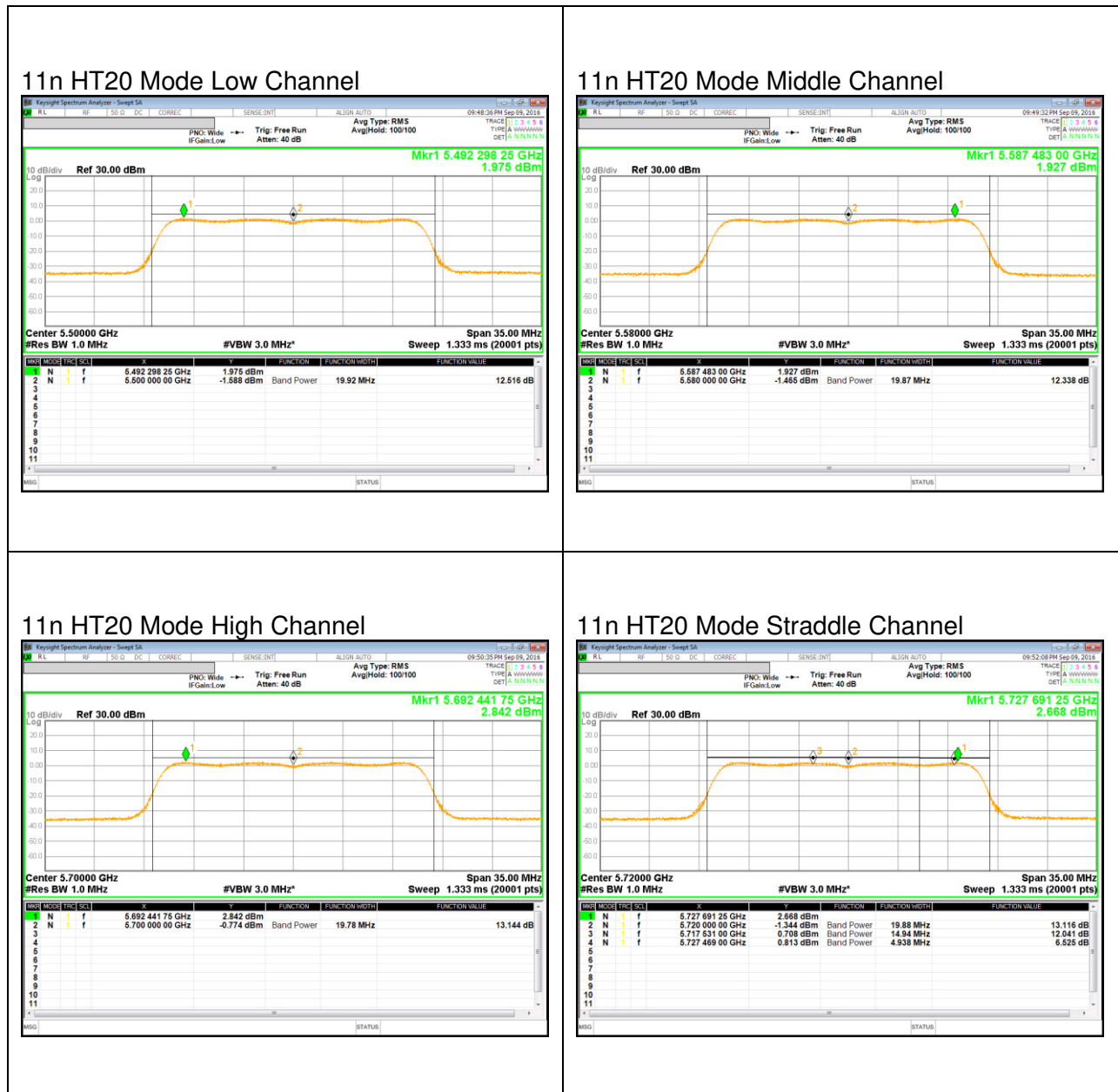
UNII 5.3 GHz IEEE 802.11n HT40 mode



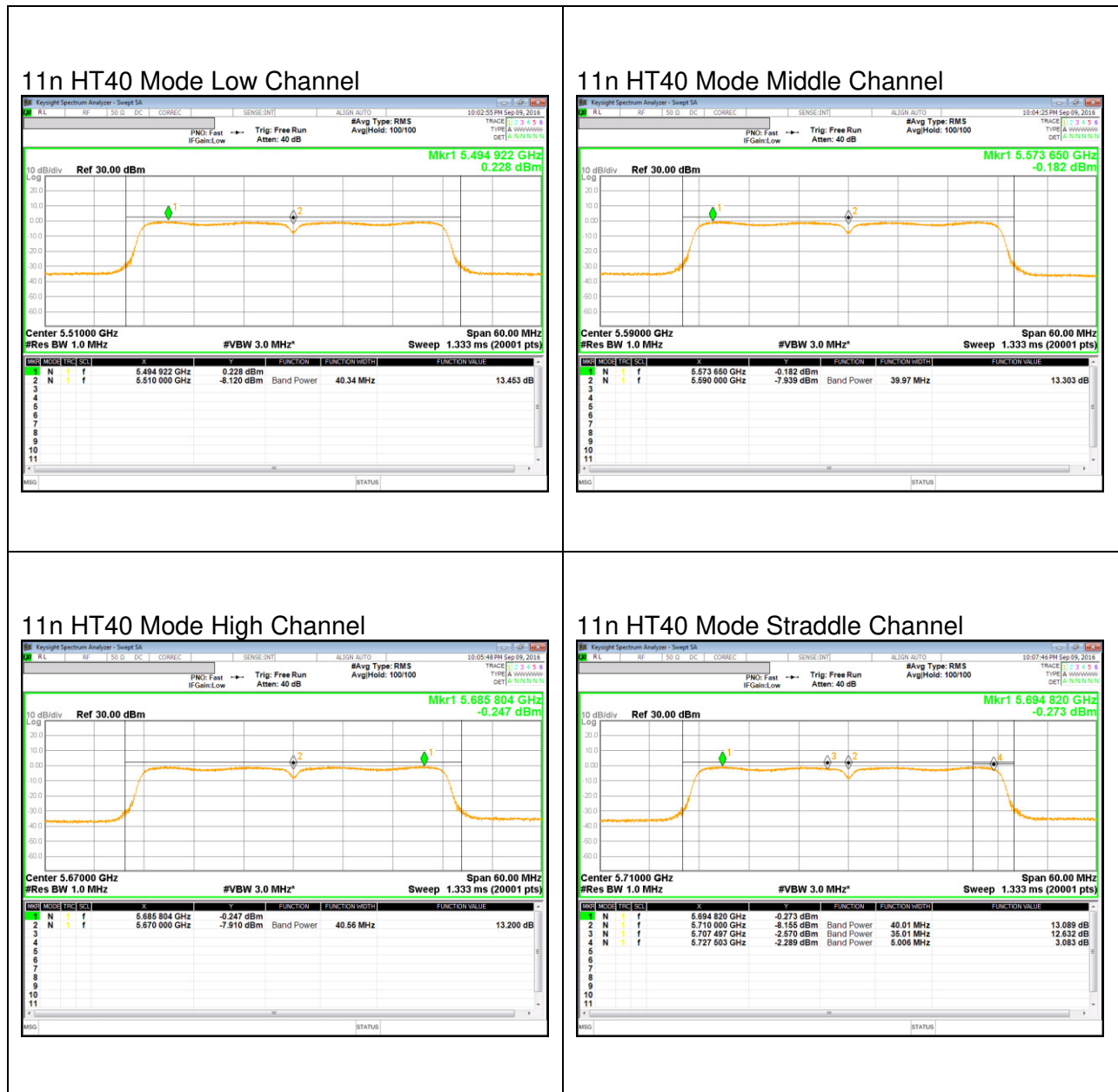
UNII 5.5 GHz IEEE 802.11a mode



UNII 5.5 GHz IEEE 802.11n HT20 mode

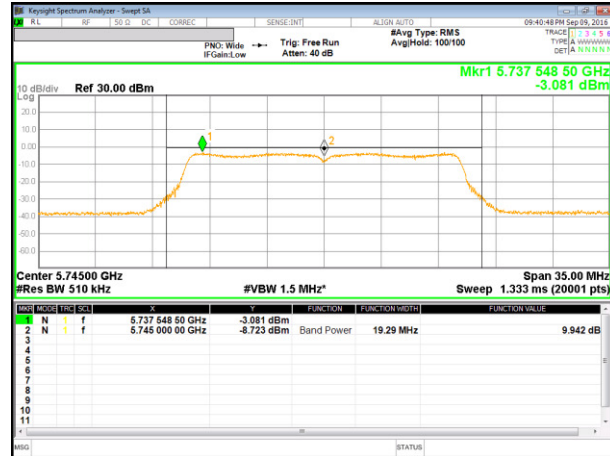


UNII 5.5 GHz IEEE 802.11n HT40 mode

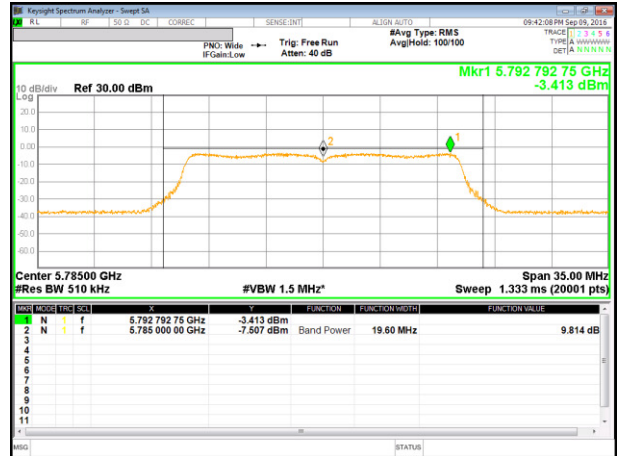


UNII 5.8 GHz IEEE 802.11a mode

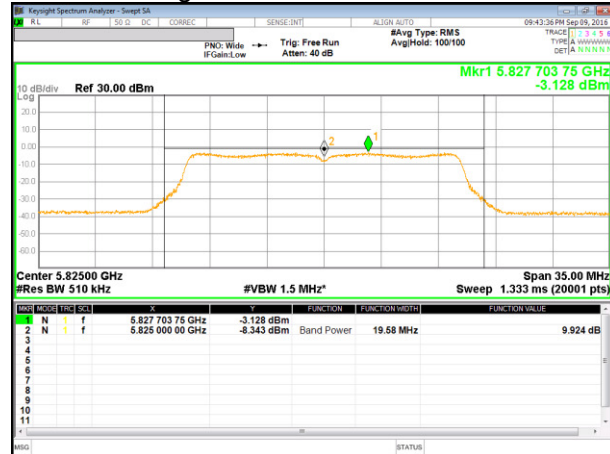
11a Mode Low Channel



11a Mode Middle Channel

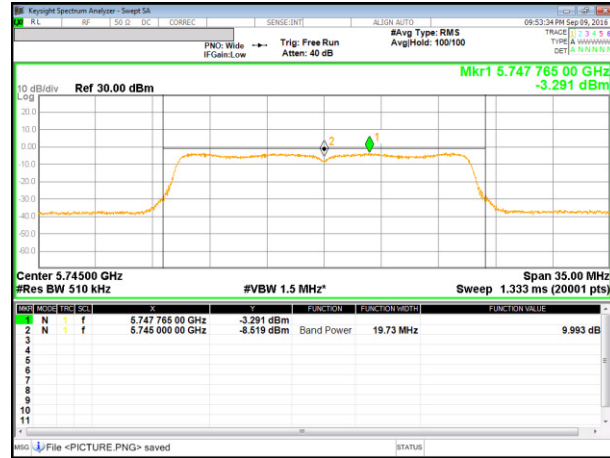


11a Mode High Channel

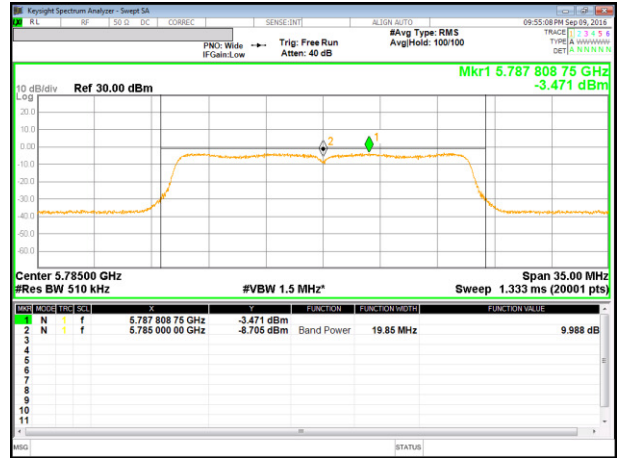


UNII 5.8 GHz IEEE 802.11n HT20 mode

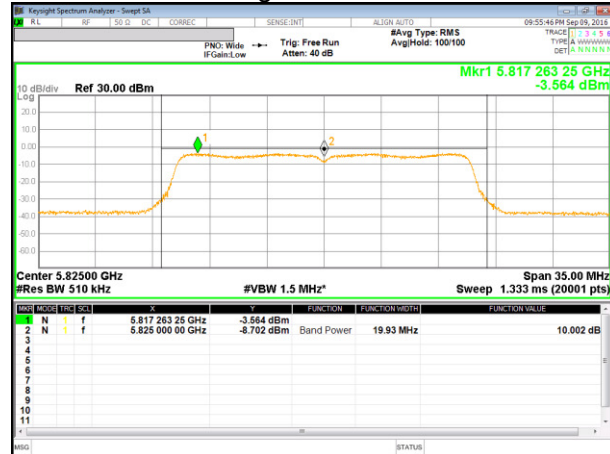
11n HT20 Mode Low Channel



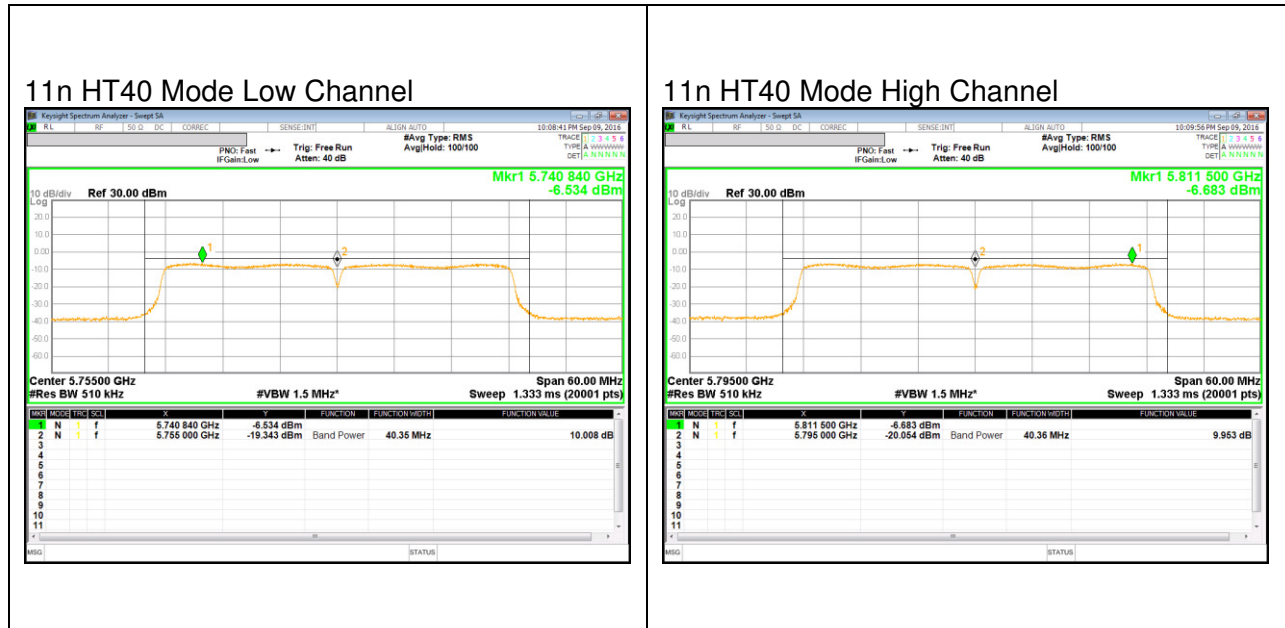
11n HT20 Mode Middle Channel



11n HT20 Mode High Channel



UNII 5.8 GHz IEEE 802.11n HT40 mode



11. TRANSMITTER ABOVE 1 GHz

LIMITS

FCC §15.205 and §15.209
 IC RSS-GEN Clause 8.9 (Transmitter)
 IC RSS-GEN Clause 7 (Receiver)

Limits for radiated disturbance of an intentional radiator		
Frequency range (MHz)	Limits (µV/m)	Measurement Distance (m)
0.009 – 0.490	2400 / F (kHz)	300
0.490 – 1.705	24000 / F (kHz)	30
1.705 – 30.0	30	30
30 – 88	100**	3
88 - 216	150**	3
216 – 960	200**	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g. §§ 15.231 and 15.241.

FCC §15.407 (b)
 RSS-247 Clause 6

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:
 - (i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- (5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

- (6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.
- (7) The provisions of §15.205 apply to intentional radiators operating under this section.
- (8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

Note

- Limit translation to field strength level (FCC §15.407)
 $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -27\text{dBm} + 95.2 = 68.2\text{dBuV/m}$
 $E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2 = -17\text{dBm} + 95.2 = 78.2\text{dBuV/m}$

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1GHz and 150 cm for 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.

Reference to KDB 789033 D02 v01r02 UNII part G) 6) c) Method AD:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

Pre-scans to detect harmonic and spurious emissions, the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

The spectrum from 1 GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

(From 30MHz to 1GHz, test was performed with the EUT set to transmit at the channel with highest output power)

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.

Note : Emission was pre-scanned from 9KHz to 30MHz; No emissions were detected which was at least 20dB below the specification limit (consider distance correction factor).

Per FCC part 15.31(o), test results were not reported.

Formula for converting the field strength from uV/m to dBuV/m is:

Limit (dBuV/m) = 20 log limit (uV/m)

Radiated test of below 30MHz was performed inside anechoic chamber.

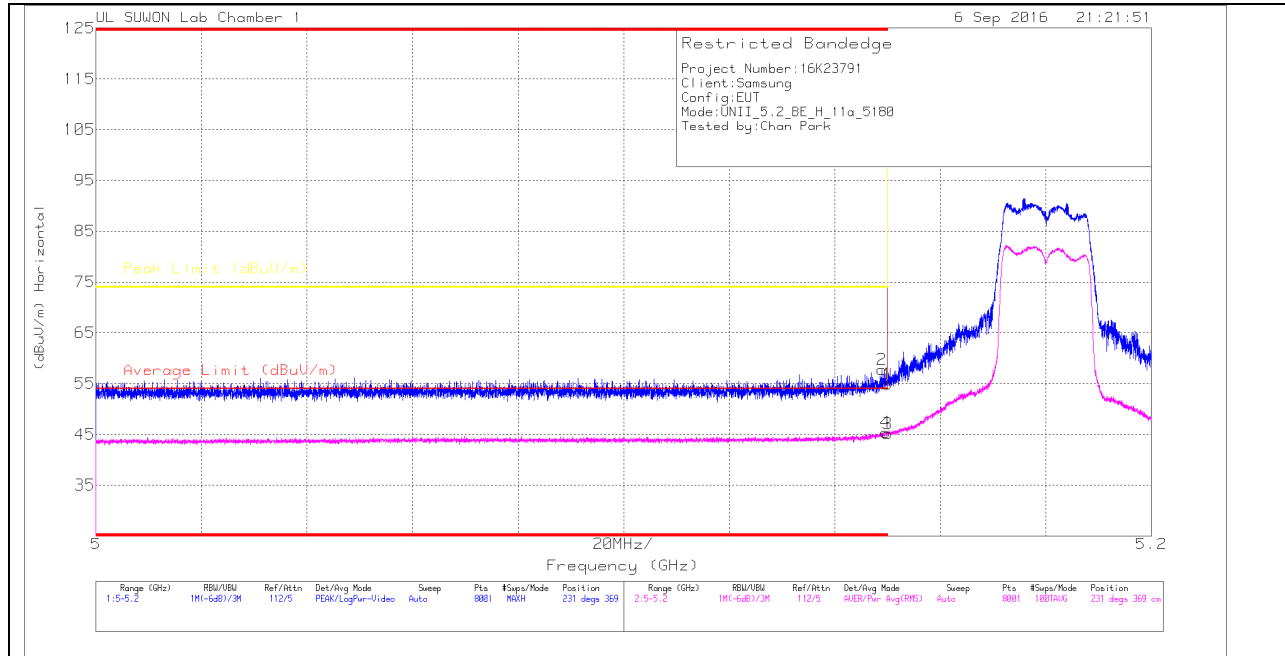
For check the correlation with open air site, comparison test was conducted between chamber and open site. The test results indicated that there is a close correlation.

11.1. 5.2 GHz

11.1.1. TX Above 1GHz 802.11a 2TX CDD MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

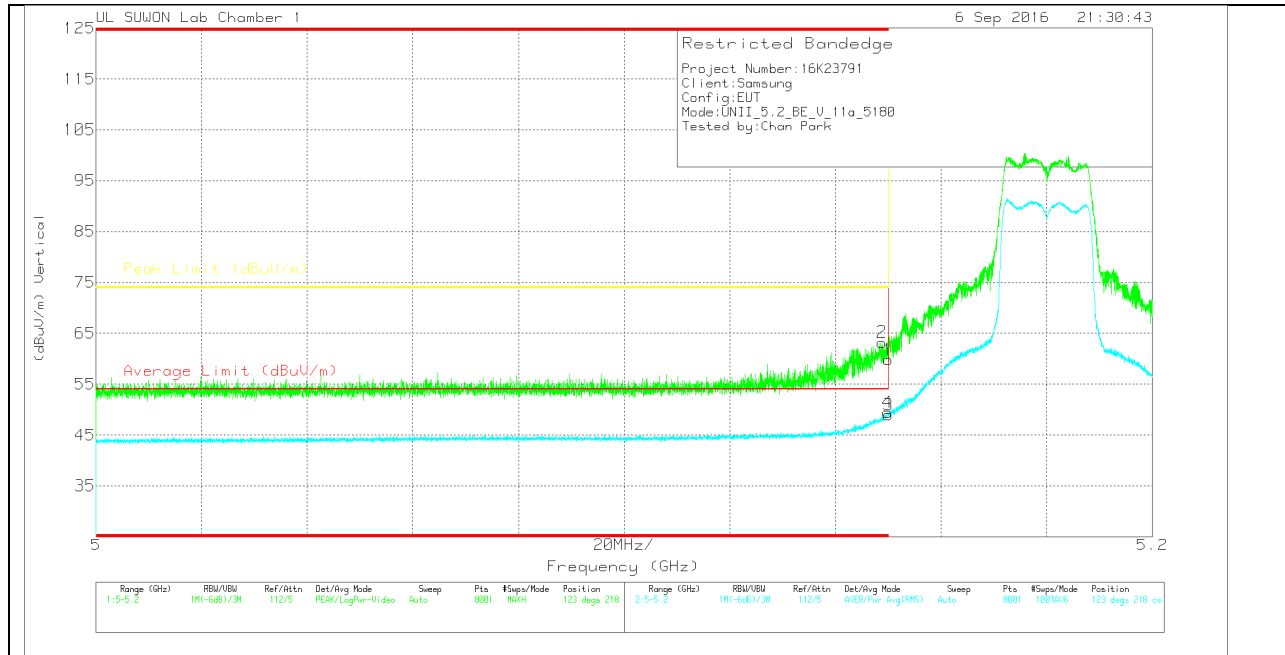
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	44.75	Pk	34.2	-24.1	54.85	-	-	74	-19.15	231	369	H
2	* 5.149	47.66	Pk	34.2	-24.1	57.76	-	-	74	-16.24	231	369	H
3	* 5.15	35.06	RMS	34.2	-24.1	45.16	54	-8.84	-	-	231	369	H
4	* 5.15	35.33	RMS	34.2	-24.1	45.43	54	-8.57	-	-	231	369	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	49.7	Pk	34.2	-24.1	59.8	-	-	74	-14.2	123	218	V
2	* 5.149	53.15	Pk	34.2	-24.1	63.25	-	-	74	-10.75	123	218	V
3	* 5.15	38.86	RMS	34.2	-24.1	48.96	54	-5.04	-	-	123	218	V
4	* 5.15	39.38	RMS	34.2	-24.1	49.48	54	-4.52	-	-	123	218	V

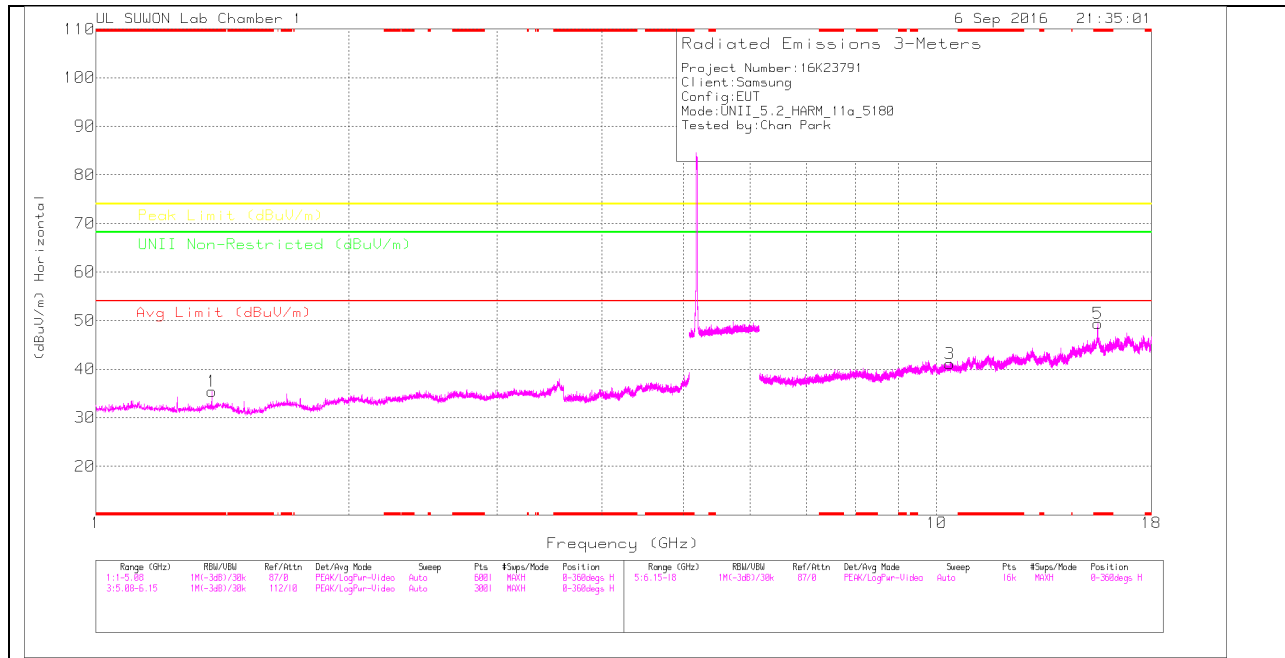
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

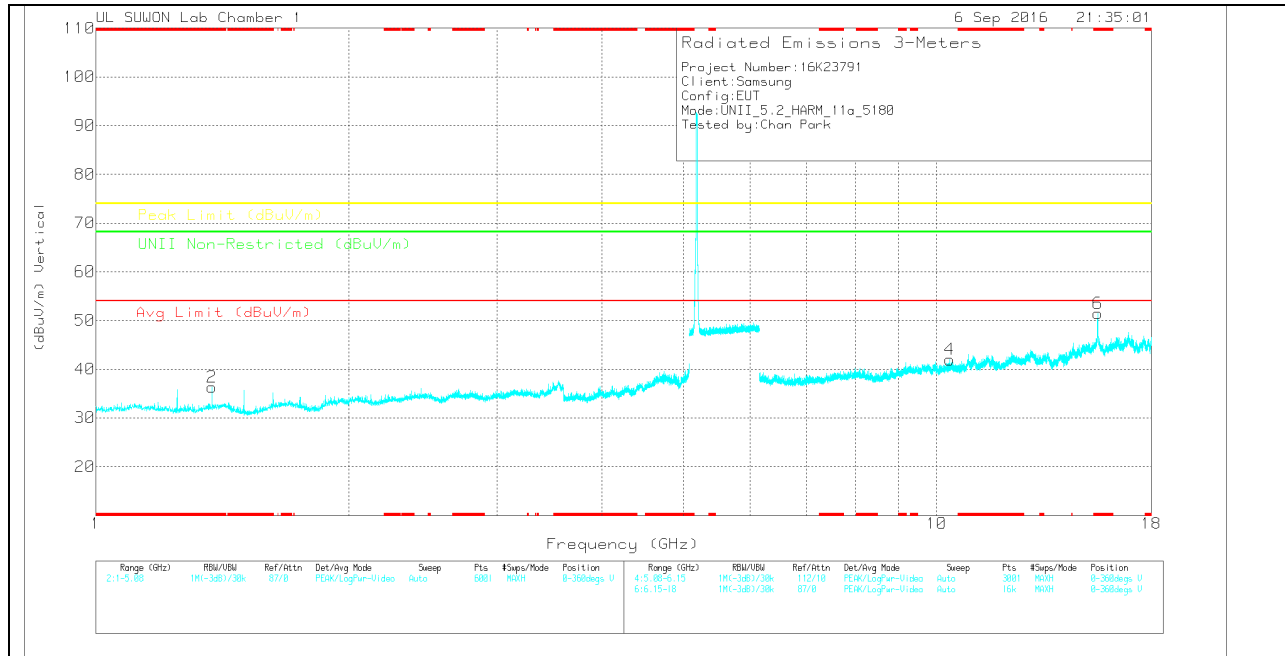
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	47.04	PK	28.5	-40.1	35.44	-	-	74	-38.56	-	-	0-360	150	H
2	* 1.375	47.92	PK	28.5	-40.1	36.32	-	-	74	-37.68	-	-	0-360	250	V
3	10.362	30.55	PK	37.8	-27.3	41.05	-	-	-	-	68.2	-27.15	0-360	250	H
5	* 15.543	25.24	PK	40.3	-16.2	49.34	-	-	74	-24.66	-	-	0-360	250	H
4	10.361	31.45	PK	37.8	-27.3	41.95	-	-	-	-	68.2	-26.25	0-360	250	V
6	* 15.544	27.4	PK	40.3	-16.2	51.5	-	-	74	-22.5	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

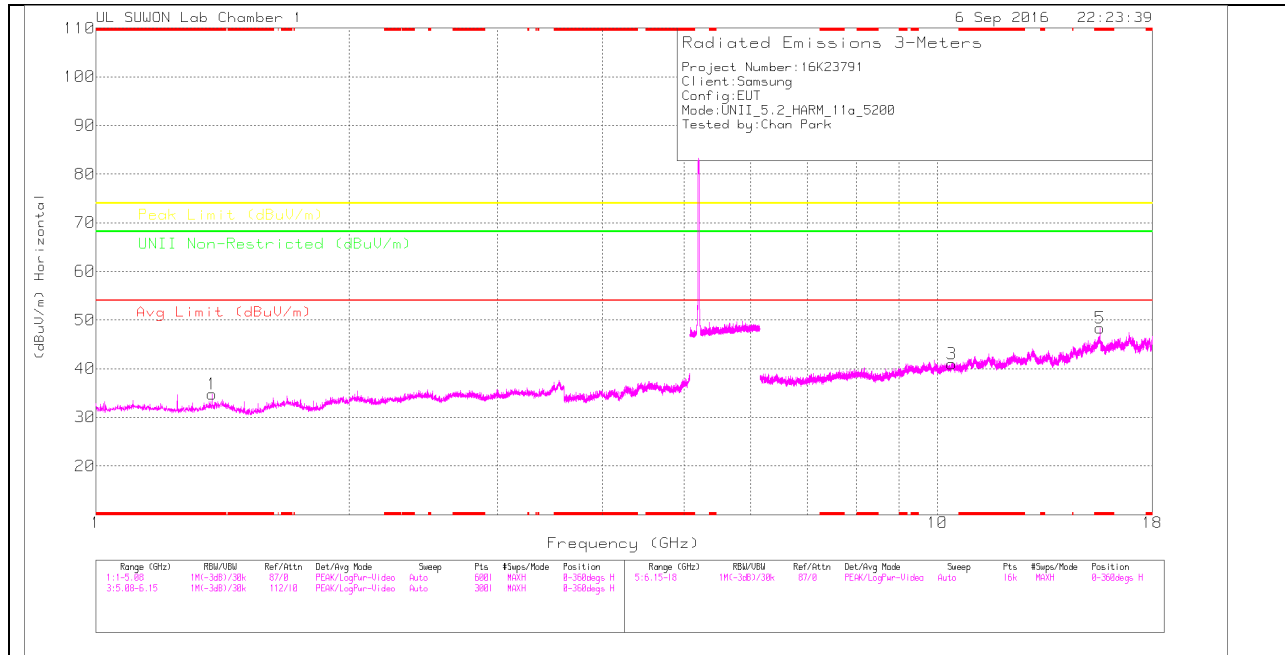
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.375	56.72	PK-U	28.5	-40.1	45.12	-	-	74	-28.88	-	-	289	170	H
* 1.375	47.89	ADR	28.5	-40.1	36.29	54	-17.71	-	-	-	-	289	170	H
* 1.375	57.08	PK-U	28.5	-40.1	45.48	-	-	74	-28.52	-	-	165	138	V
* 1.375	47.84	ADR	28.5	-40.1	36.24	54	-17.76	-	-	-	-	165	138	V
* 15.536	24.33	ADR	40.2	-16.5	48.03	54	-5.97	-	-	-	-	16	305	H
* 15.539	27.08	ADR	40.3	-16.4	50.98	54	-3.02	-	-	-	-	228	203	V
* 15.531	37.37	PK-U	40.2	-16.7	60.87	-	-	74	-13.13	-	-	16	305	H
* 15.535	39.5	PK-U	40.2	-16.5	63.2	-	-	74	-10.8	-	-	228	203	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

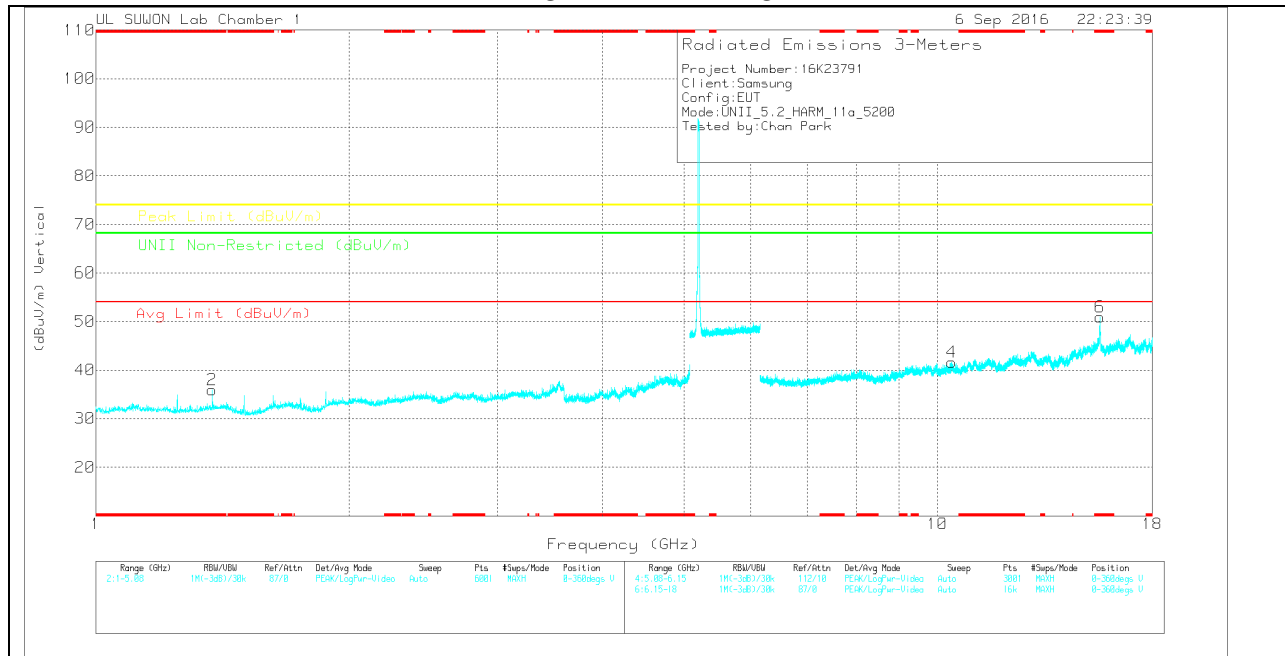
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	46.34	PK	28.5	-40.1	34.74	-	-	74	-39.26	-	-	0-360	150	H
2	* 1.375	47.5	PK	28.5	-40.1	35.9	-	-	74	-38.1	-	-	0-360	149	V
3	10.399	29.88	PK	37.8	-26.7	40.98	-	-	-	-	68.2	-27.22	0-360	150	H
5	* 15.599	22.55	PK	40.3	-14.5	48.35	-	-	74	-25.65	-	-	0-360	250	H
4	10.396	30.67	PK	37.8	-26.8	41.67	-	-	-	-	68.2	-26.53	0-360	150	V
6	* 15.597	25.18	PK	40.3	-14.6	50.88	-	-	74	-23.12	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

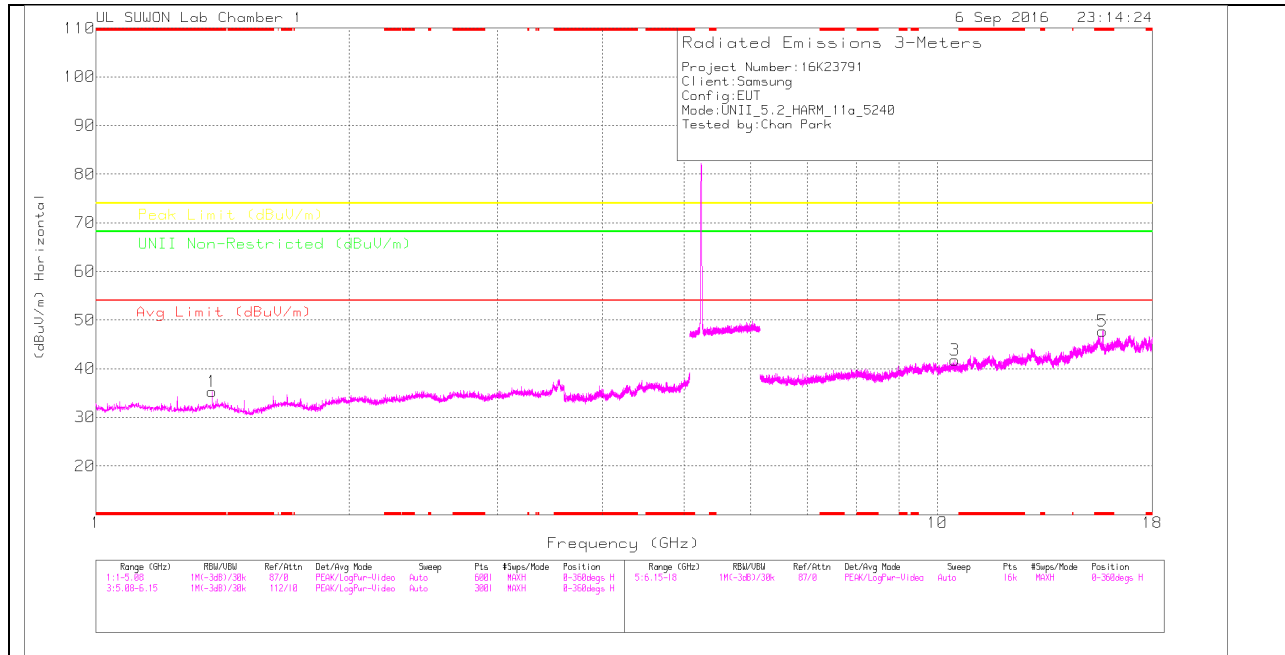
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.593	35.64	PK-U	40.3	-14.6	61.34	-	-	74	-12.66	-	-	22	195	H
* 15.602	22.76	ADR	40.3	-14.6	48.46	54	-5.54	-	-	-	-	22	195	H
* 15.604	37.57	PK-U	40.3	-14.6	63.27	-	-	74	-10.73	-	-	228	200	V
* 15.602	25.1	ADR	40.3	-14.6	50.8	54	-3.2	-	-	-	-	228	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

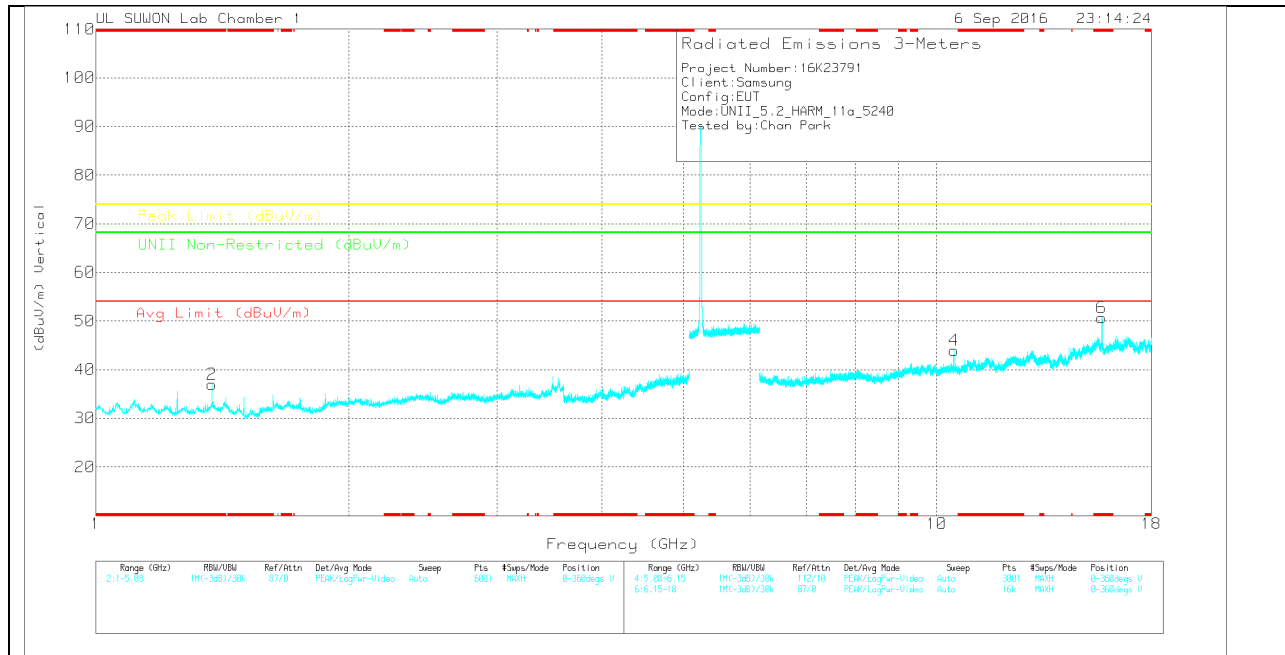
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	46.88	PK	28.5	-40.1	35.28	-	-	74	-38.72	-	-	0-360	250	H
2	* 1.375	48.51	PK	28.5	-40.1	36.91	-	-	74	-37.09	-	-	0-360	250	V
3	10.48	31.6	PK	37.8	-27.7	41.7	-	-	-	-	68.2	-26.5	0-360	250	H
5	* 15.718	24.65	PK	40.4	-17.4	47.65	-	-	74	-26.35	-	-	0-360	250	H
4	10.479	33.85	PK	37.8	-27.7	43.95	-	-	-	-	68.2	-24.25	0-360	250	V
6	* 15.719	27.69	PK	40.4	-17.4	50.69	-	-	74	-23.31	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.712	37.82	PK-U	40.4	-17.4	60.82	-	-	74	-13.18	-	-	16	200	H
* 15.722	24.06	ADR	40.4	-17.4	47.06	54	-6.94	-	-	-	-	16	200	H
10.482	44.4	PK-U	37.8	-27.7	54.5	-	-	-	-	68.2	-13.7	64	156	V
* 15.711	39.84	PK-U	40.4	-17.4	62.84	-	-	74	-11.16	-	-	224	194	V
* 15.718	27.25	ADR	40.4	-17.4	50.25	54	-3.75	-	-	-	-	224	194	V

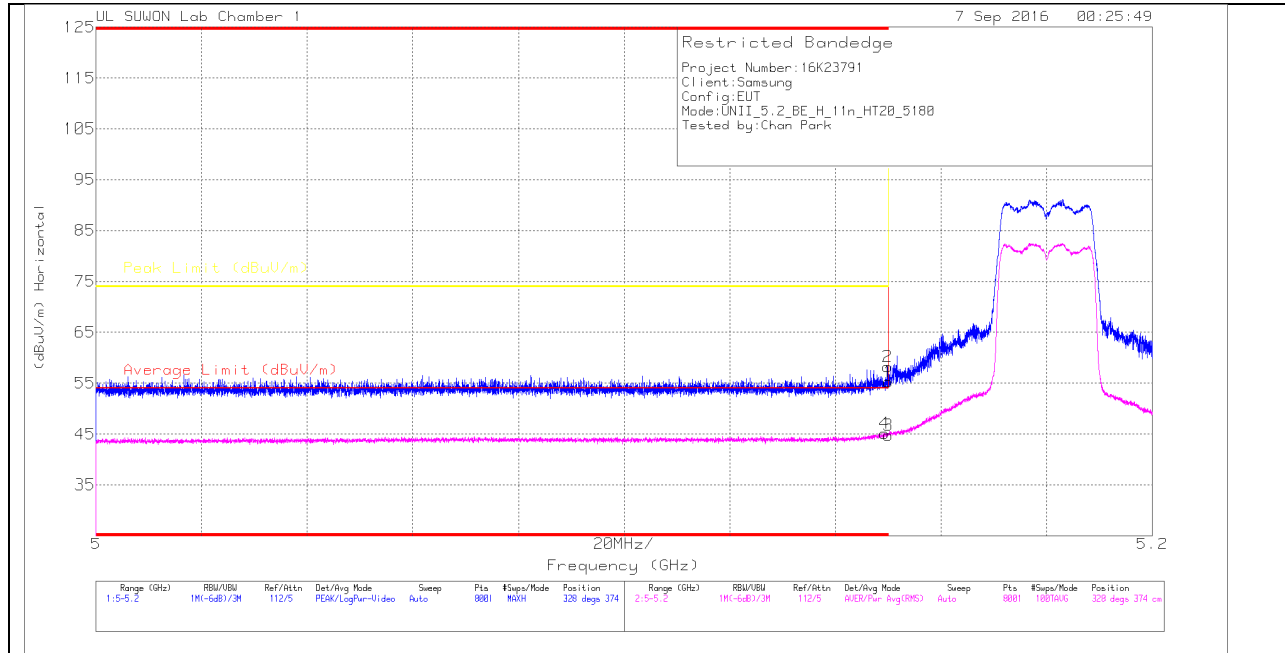
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.2. TX Above 1GHz 802.11n HT20 2TX CDD MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

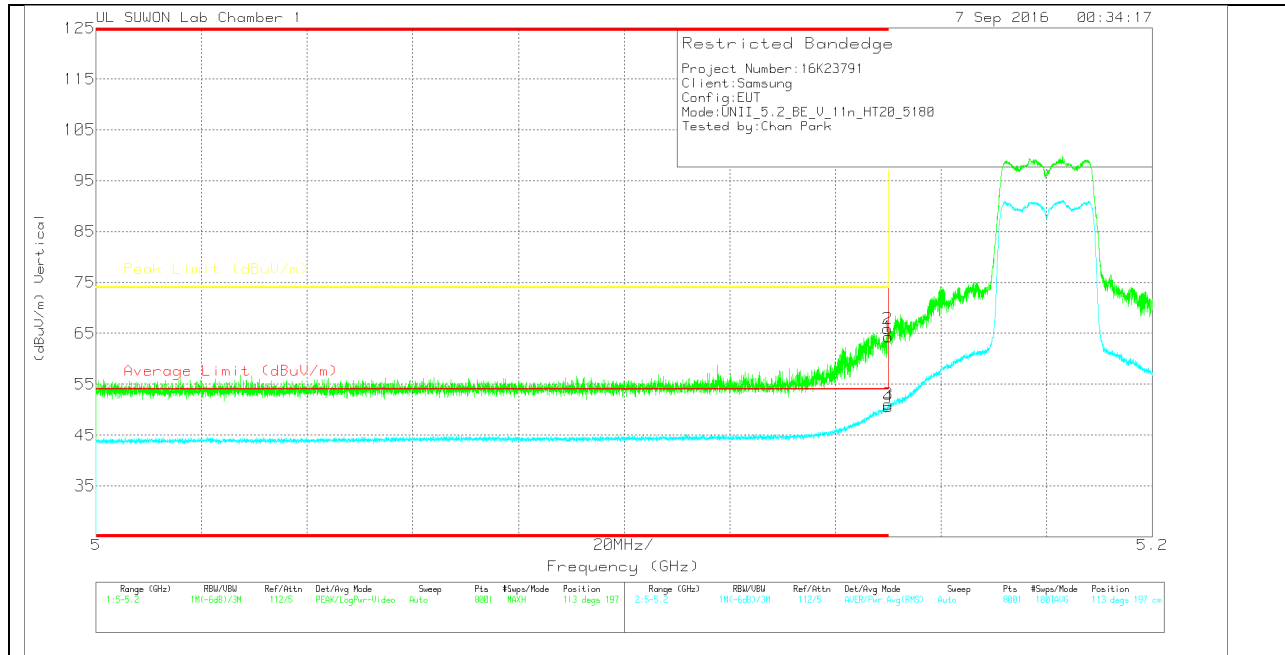
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.23	Pk		-24.1	55.33	-	-	74	-18.67	328	374	H
2	* 5.15	48.13	Pk		-24.1	58.23	-	-	74	-15.77	328	374	H
3	* 5.15	34.67	RMS		-24.1	44.77	54	-9.23	-	-	328	374	H
4	* 5.149	35.07	RMS		-24.1	45.17	54	-8.83	-	-	328	374	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	54.22	Pk		-24.1	64.32	-	-	74	-9.68	113	197	V
2	* 5.15	55.83	Pk		-24.1	65.93	-	-	74	-8.07	113	197	V
3	* 5.15	41.02	RMS		-24.1	51.12	54	-2.88	-	-	113	197	V
4	* 5.15	40.53	RMS		-24.1	50.63	54	-3.37	-	-	113	197	V

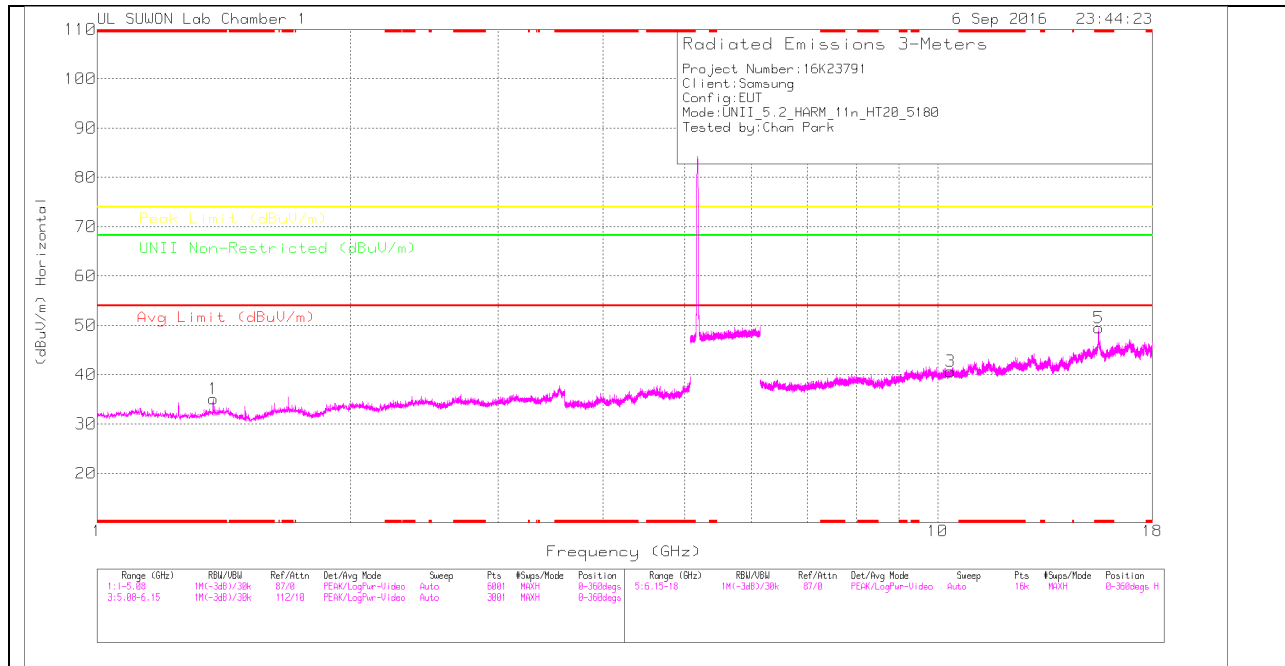
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

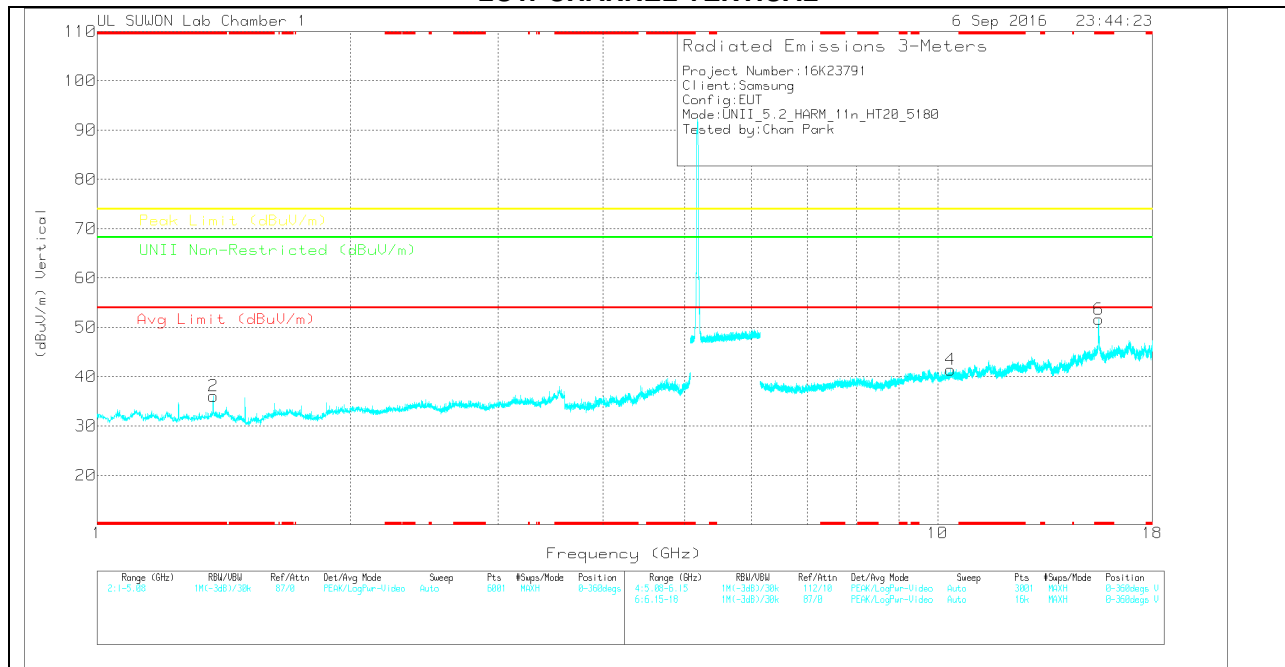
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	46.66	PK	28.5	-40.1	35.06	-	-	74	-38.94	-	-	0-360	150	H
2	* 1.375	47.66	PK	28.5	-40.1	36.06	-	-	74	-37.94	-	-	0-360	250	V
3	10.358	30.24	PK	37.8	-27.4	40.64	-	-	-	-	68.2	-27.56	0-360	250	H
5	* 15.539	25.57	PK	40.3	-16.4	49.47	-	-	74	-24.53	-	-	0-360	250	H
4	10.359	31.01	PK	37.8	-27.4	41.41	-	-	-	-	68.2	-26.79	0-360	250	V
6	* 15.538	27.83	PK	40.2	-16.4	51.63	-	-	74	-22.37	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

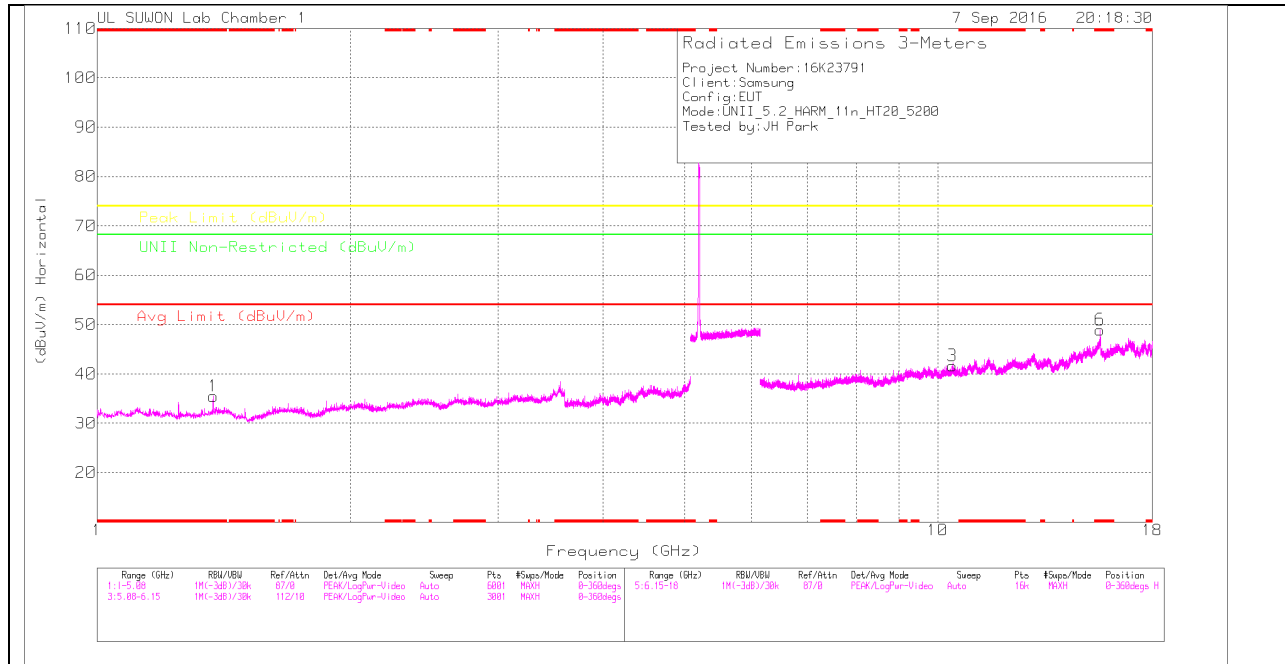
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.541	37.81	PK-U	40.3	-16.3	61.81	-	-	74	-12.19	-	-	19	203	H
* 15.536	25.66	ADR	40.2	-16.5	49.36	54	-4.64	-	-	-	-	19	203	H
* 15.538	39.65	PK-U	40.2	-16.4	63.45	-	-	74	-10.55	-	-	225	197	V
* 15.539	26.75	ADR	40.3	-16.4	50.65	54	-3.35	-	-	-	-	225	197	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

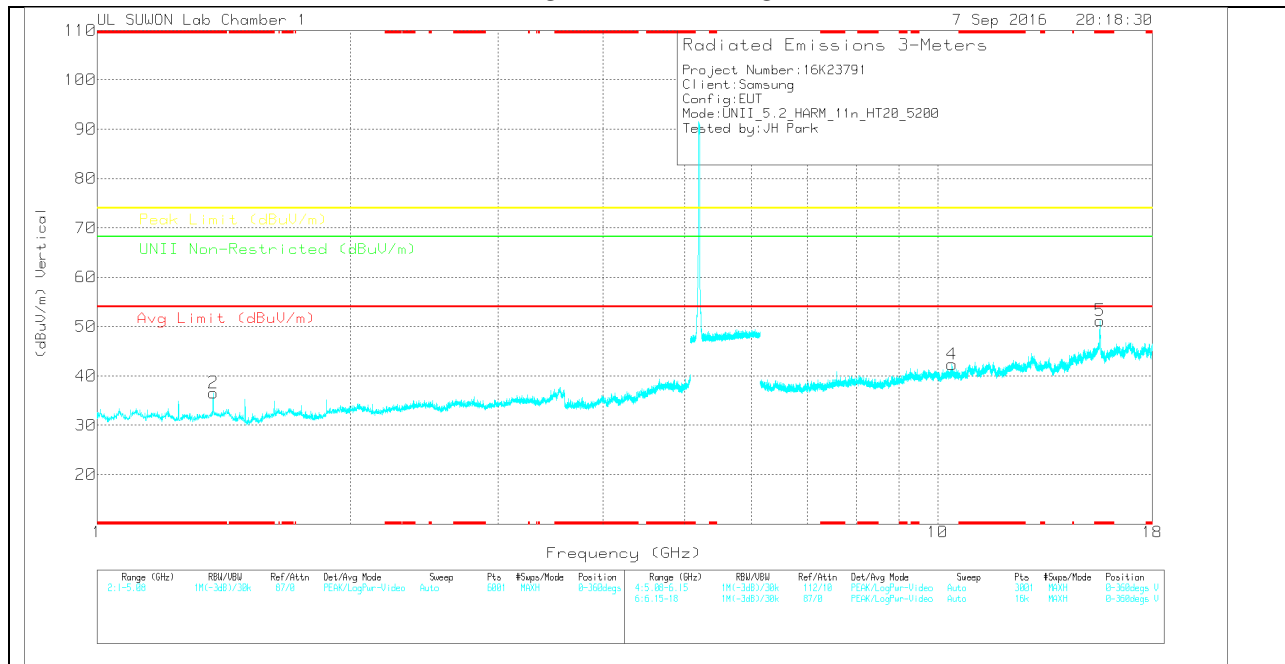
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	47.08	PK	28.5	-40.1	35.48	-	-	74	-38.52	-	-	0-360	250	H
2	* 1.375	48.18	PK	28.5	-40.1	36.58	-	-	74	-37.42	-	-	0-360	149	V
3	10.407	30.55	PK	37.8	-26.7	41.65	-	-	-	-	68.2	-26.55	0-360	250	H
6	* 15.603	23.23	PK	40.3	-14.6	48.93	-	-	74	-25.07	-	-	0-360	250	H
4	10.4	31.25	PK	37.8	-26.7	42.35	-	-	-	-	68.2	-25.85	0-360	250	V
5	* 15.594	25.5	PK	40.3	-14.6	51.2	-	-	74	-22.8	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

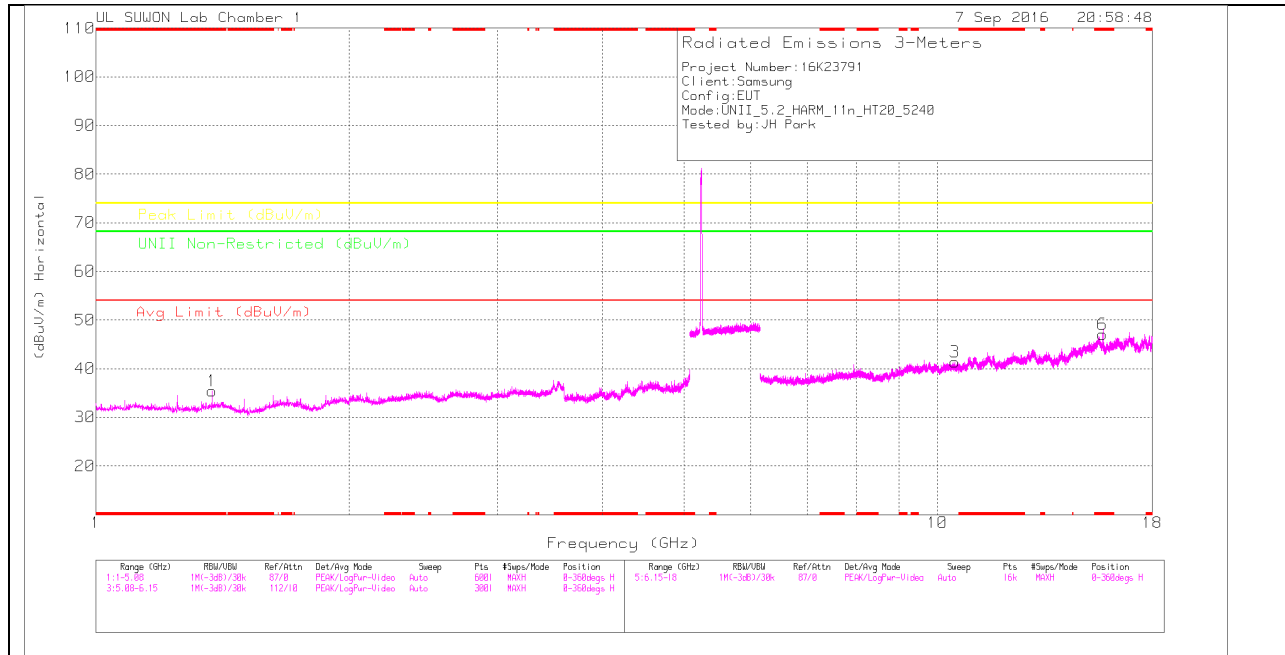
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.375	56.99	PK-U	28.5	-40.1	45.39	-	-	74	-28.61	-	-	44	239	V
* 1.375	48.09	ADR	28.5	-40.1	36.49	54	-17.51	-	-	-	-	44	239	V
* 1.375	56.11	PK-U	28.5	-40.1	44.51	-	-	74	-29.49	-	-	19	270	H
* 1.375	46.39	ADR	28.5	-40.1	34.79	54	-19.21	-	-	-	-	19	270	H
* 15.601	23.05	ADR	40.3	-14.5	48.85	54	-5.15	-	-	-	-	16	210	H
* 15.601	24.95	ADR	40.3	-14.5	50.75	54	-3.25	-	-	-	-	226	210	V
* 15.607	34.81	PK-U	40.3	-14.7	60.41	-	-	74	-13.59	-	-	16	210	H
* 15.599	36.91	PK-U	40.3	-14.5	62.71	-	-	74	-11.29	-	-	226	210	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

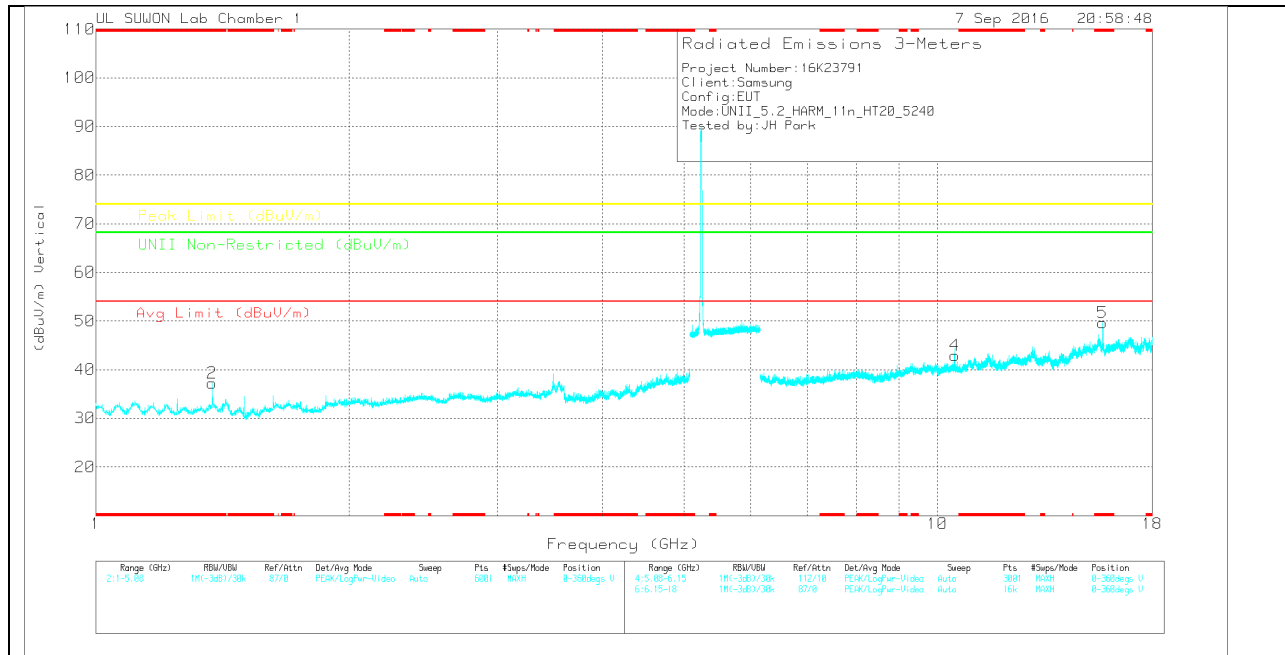
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	47.03	PK	28.5	-40.1	35.43	-	-	74	-38.57	-	-	0-360	250	H
2	* 1.375	48.87	PK	28.5	-40.1	37.27	-	-	74	-36.73	-	-	0-360	250	V
3	10.481	31.25	PK	37.8	-27.7	41.35	-	-	-	-	68.2	-26.85	0-360	250	H
6	* 15.72	24.06	PK	40.4	-17.4	47.06	-	-	74	-26.94	-	-	0-360	250	H
4	10.485	32.83	PK	37.8	-27.7	42.93	-	-	-	-	68.2	-25.27	0-360	250	V
5	* 15.721	26.66	PK	40.4	-17.4	49.66	-	-	74	-24.34	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.375	57.31	PK-U	28.5	-40.1	45.71	-	-	74	-28.29	-	-	160	100	V
* 1.375	47.65	ADR	28.5	-40.1	36.05	54	-17.95	-	-	-	-	160	100	V
* 1.375	56.23	PK-U	28.5	-40.1	44.63	-	-	74	-29.37	-	-	267	129	H
* 1.375	47.06	ADR	28.5	-40.1	35.46	54	-18.54	-	-	-	-	267	129	H
* 15.718	27.39	ADR	40.4	-17.4	50.39	54	-3.61	-	-	-	-	224	199	V
* 15.721	24.62	ADR	40.4	-17.4	47.62	54	-6.38	-	-	-	-	21	384	H
* 15.714	38.79	PK-U	40.4	-17.4	61.79	-	-	74	-12.21	-	-	224	199	V
* 15.728	36.62	PK-U	40.4	-17.3	59.72	-	-	74	-14.28	-	-	21	384	H
10.476	41.32	PK-U	37.8	-27.7	51.42	-	-	-	-	68.2	-16.78	220	100	H
10.486	46.18	PK-U	37.8	-27.7	56.28	-	-	-	-	68.2	-11.92	225	295	V

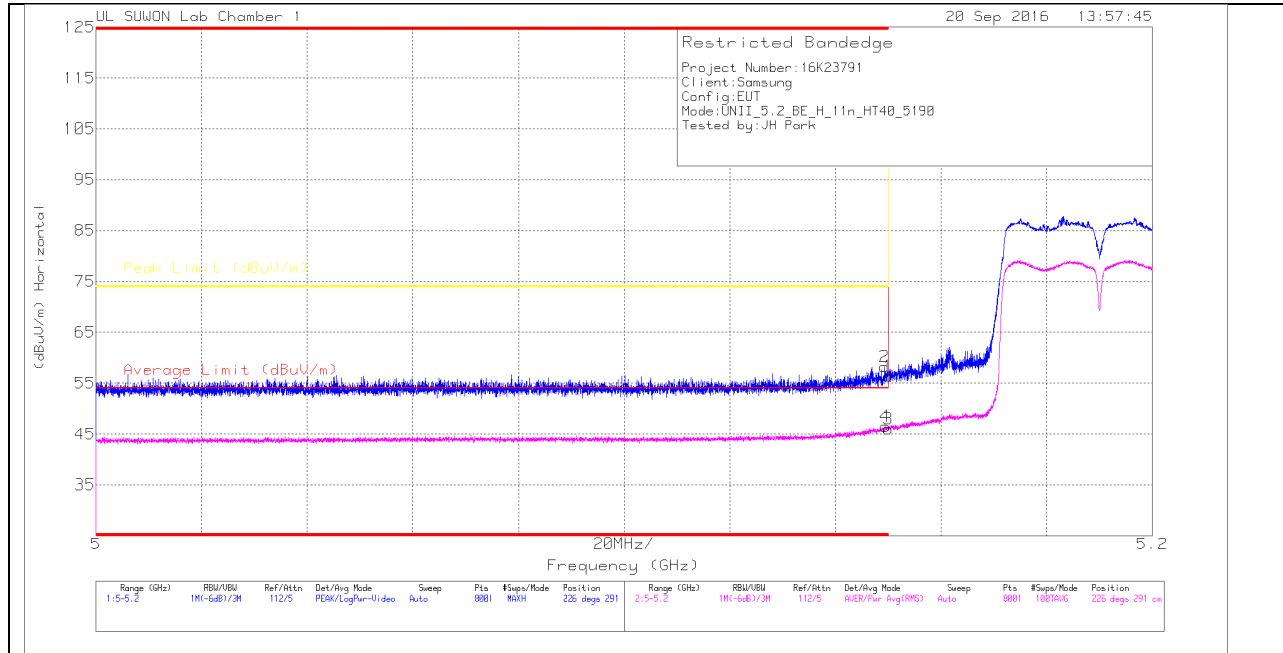
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.1.3. TX Above 1GHz 802.11n HT40 2TX CDD MODE IN THE 5.2GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

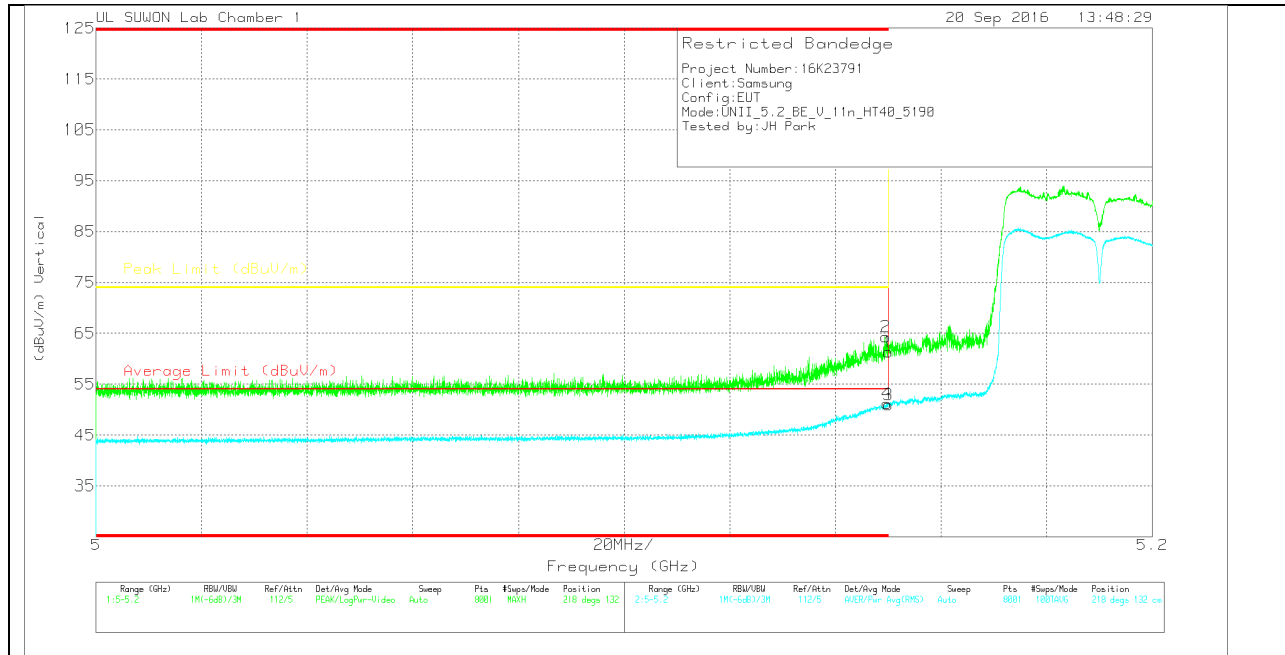
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	46.28	Pk	34.2	-24.1	56.38	-	-	74	-17.62	226	291	H
2	* 5.149	48.13	Pk	34.2	-24.1	58.23	-	-	74	-15.77	226	291	H
3	* 5.15	35.87	RMS	34.2	-24.1	45.97	54	-8.03	-	-	226	291	H
4	* 5.149	36.38	RMS	34.2	-24.1	46.48	54	-7.52	-	-	226	291	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	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	51.27	Pk		-24.1	61.37	-	-	74	-12.63	218	132	V
2	* 5.15	54.21	Pk		-24.1	64.31	-	-	74	-9.69	218	132	V
3	* 5.15	40.84	RMS		-24.1	50.94	54	-3.06	-	-	218	132	V
4	* 5.15	41.14	RMS		-24.1	51.24	54	-2.76	-	-	218	132	V

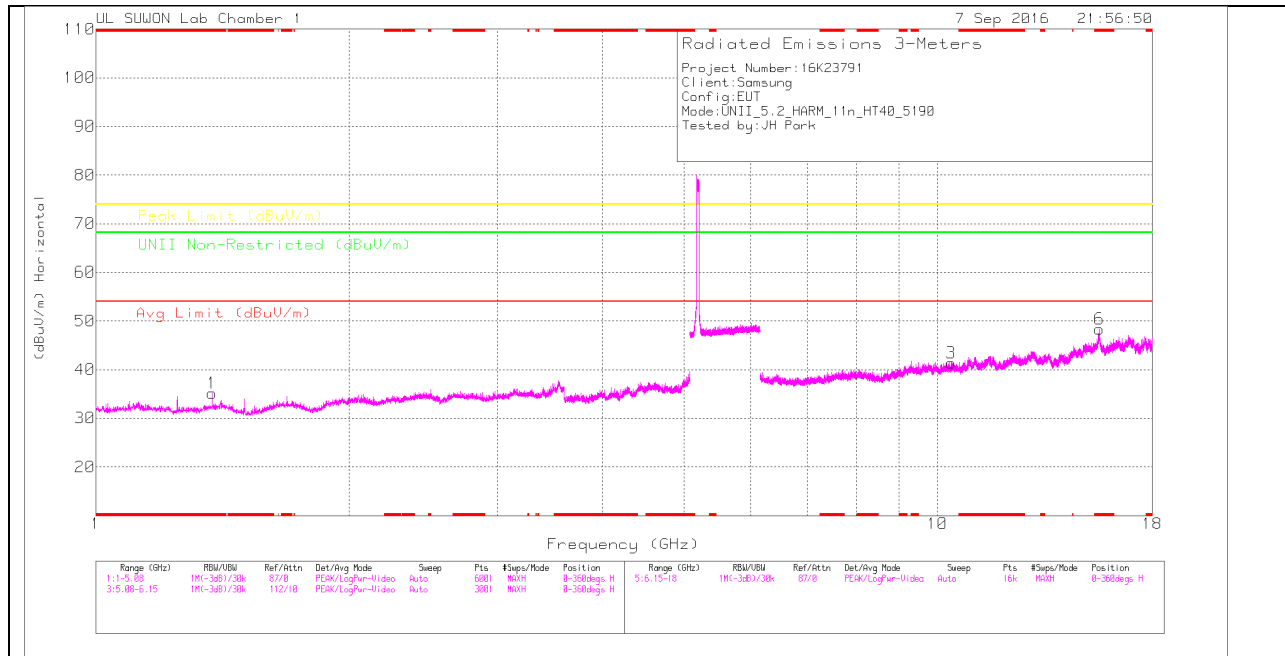
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

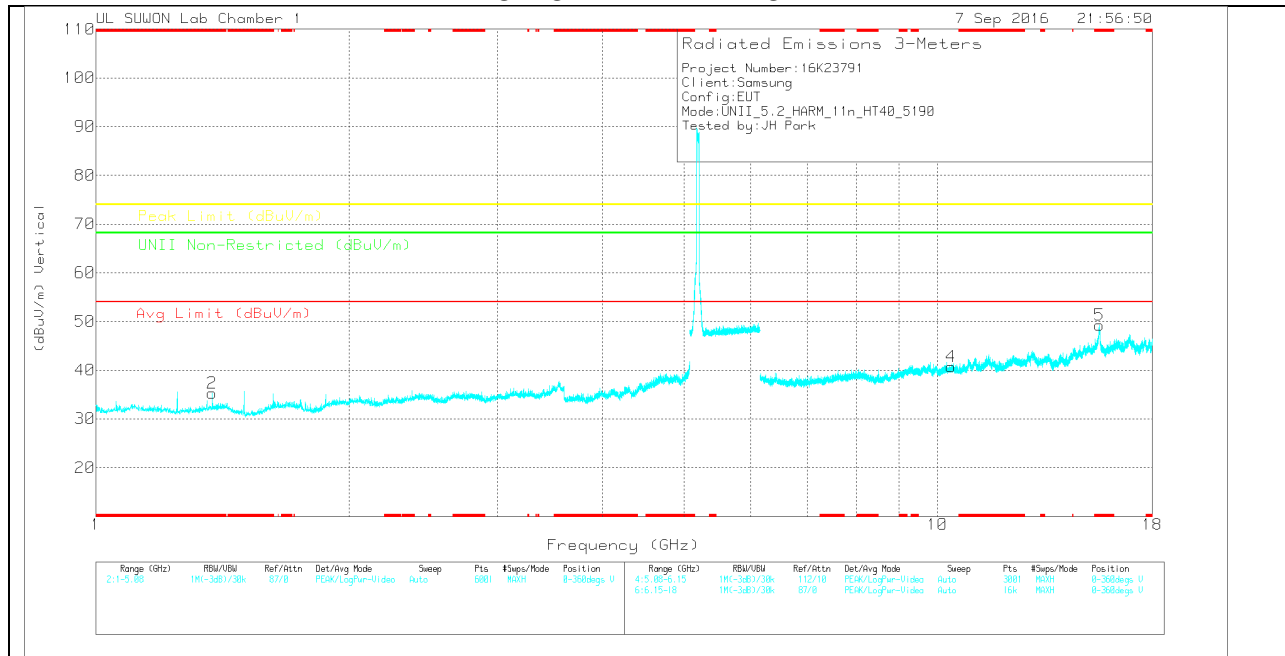
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	46.77	PK	28.5	-40.1	35.17	-	-	74	-38.83	-	-	0-360	250	H
2	* 1.375	46.91	PK	28.5	-40.1	35.31	-	-	74	-38.69	-	-	0-360	149	V
3	10.387	30.42	PK	37.8	-26.9	41.32	-	-	-	-	68.2	-26.88	0-360	150	H
6	* 15.567	23.1	PK	40.3	-15.1	48.3	-	-	74	-25.7	-	-	0-360	250	H
4	10.385	29.96	PK	37.8	-27	40.76	-	-	-	-	68.2	-27.44	0-360	250	V
5	* 15.569	23.95	PK	40.3	-15	49.25	-	-	74	-24.75	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

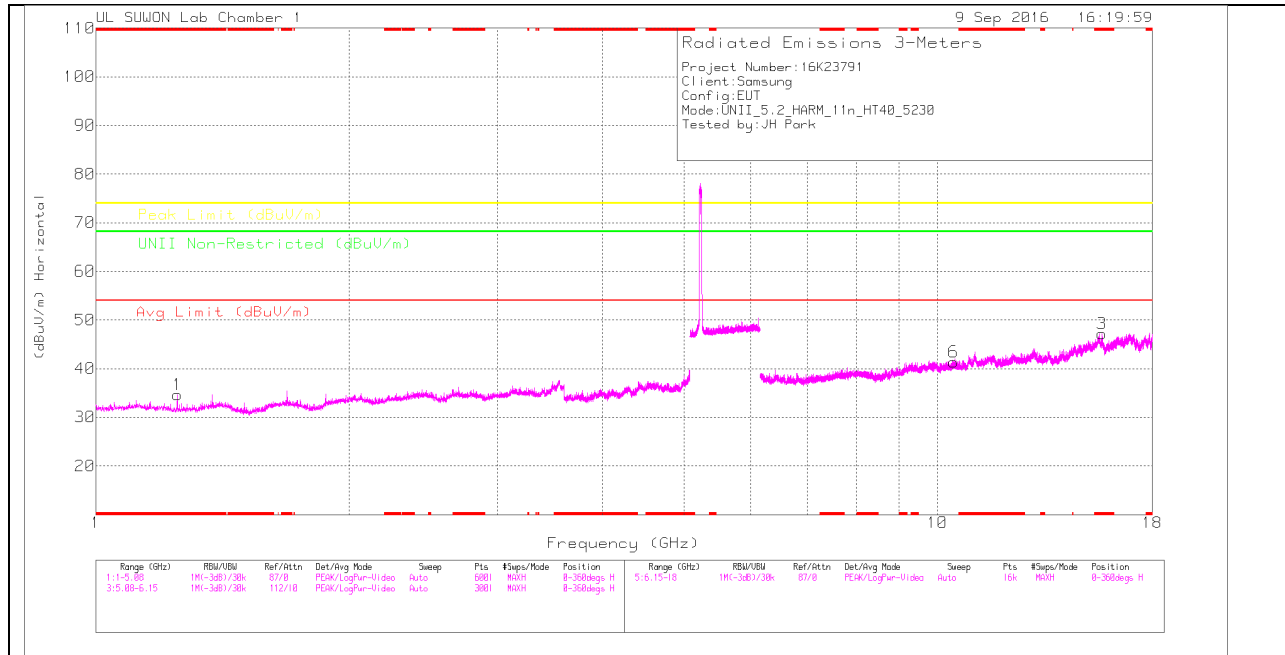
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.56	22.32	ADR	40.3	-15.5	47.12	54	-6.88	-	-	-	-	19	374	H
* 15.56	25.84	ADR	40.3	-15.5	50.64	54	-3.36	-	-	-	-	225	198	V
* 15.566	33.87	PK-U	40.3	-15.2	58.97	-	-	74	-15.03	-	-	19	374	H
* 15.553	34.85	PK-U	40.3	-15.8	59.35	-	-	74	-14.65	-	-	225	198	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

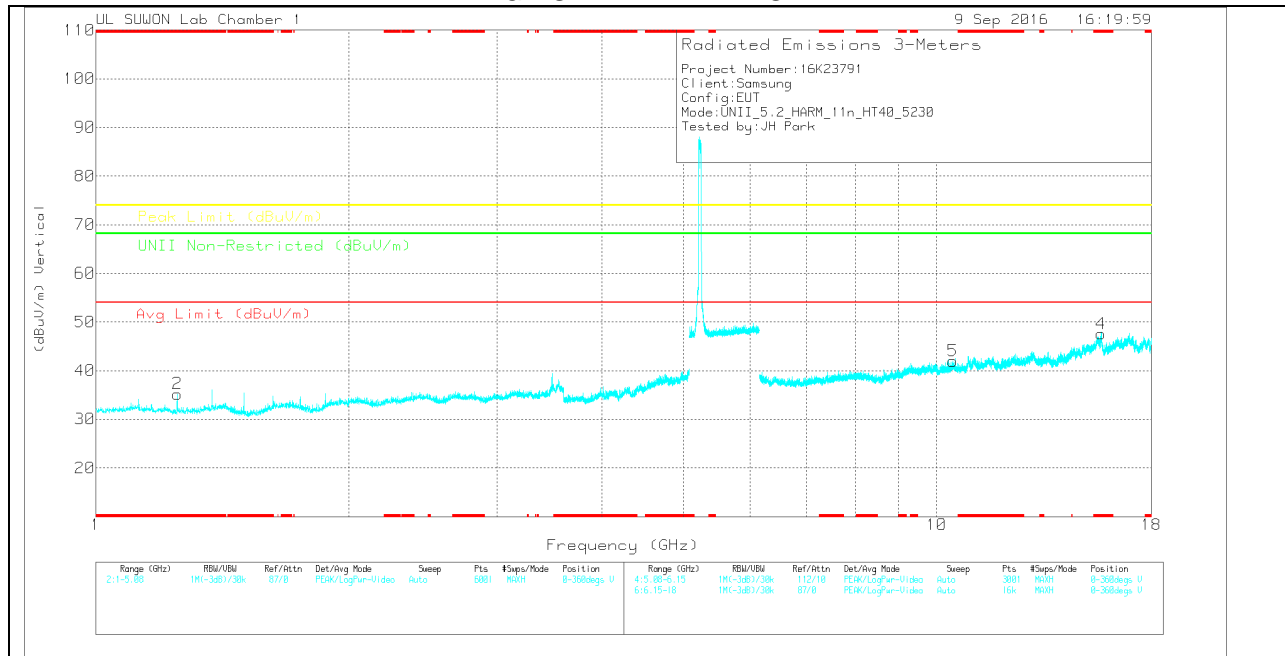
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	46.5	PK	28.3	-40.2	34.6	-	-	74	-39.4	-	-	0-360	150	H
2	* 1.25	47.12	PK	28.3	-40.2	35.22	-	-	74	-38.78	-	-	0-360	250	V
3	* 15.695	24.22	PK	40.4	-17.4	47.22	-	-	74	-26.78	-	-	0-360	250	H
6	10.456	31.05	PK	37.8	-27.5	41.35	-	-	-	-	68.2	-26.85	0-360	250	H
4	* 15.692	24.61	PK	40.4	-17.4	47.61	-	-	74	-26.39	-	-	0-360	250	V
5	10.459	31.65	PK	37.8	-27.5	41.95	-	-	-	-	68.2	-26.25	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.694	23.45	ADR	40.4	-17.4	46.45	54	-7.55	-	-	-	-	223	200	V
* 15.695	23.32	ADR	40.4	-17.4	46.32	54	-7.68	-	-	-	-	360	308	H
* 15.686	35.33	PK-U	40.4	-17.3	58.43	-	-	74	-15.57	-	-	223	200	V
* 15.691	34.69	PK-U	40.4	-17.3	57.79	-	-	74	-16.21	-	-	360	308	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

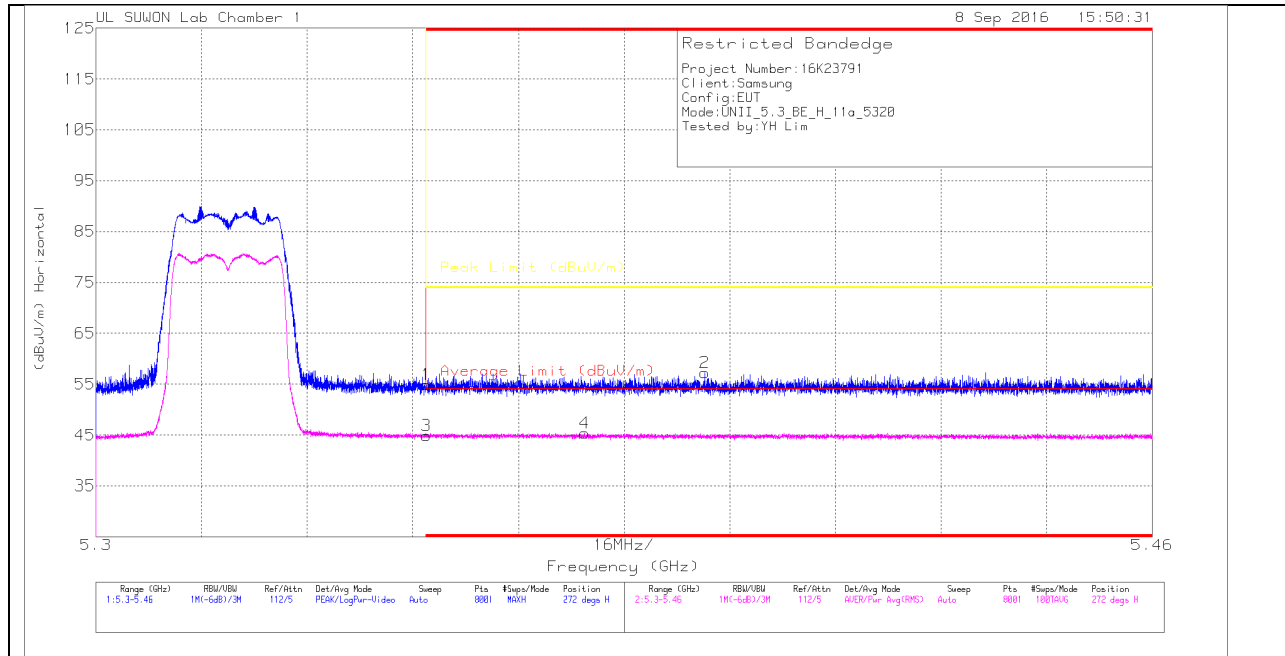
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2. 5.3 GHz

11.2.1. TX ABOVE 1 GHz 802.11a 2TX CDD MODE IN THE 5.3 GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

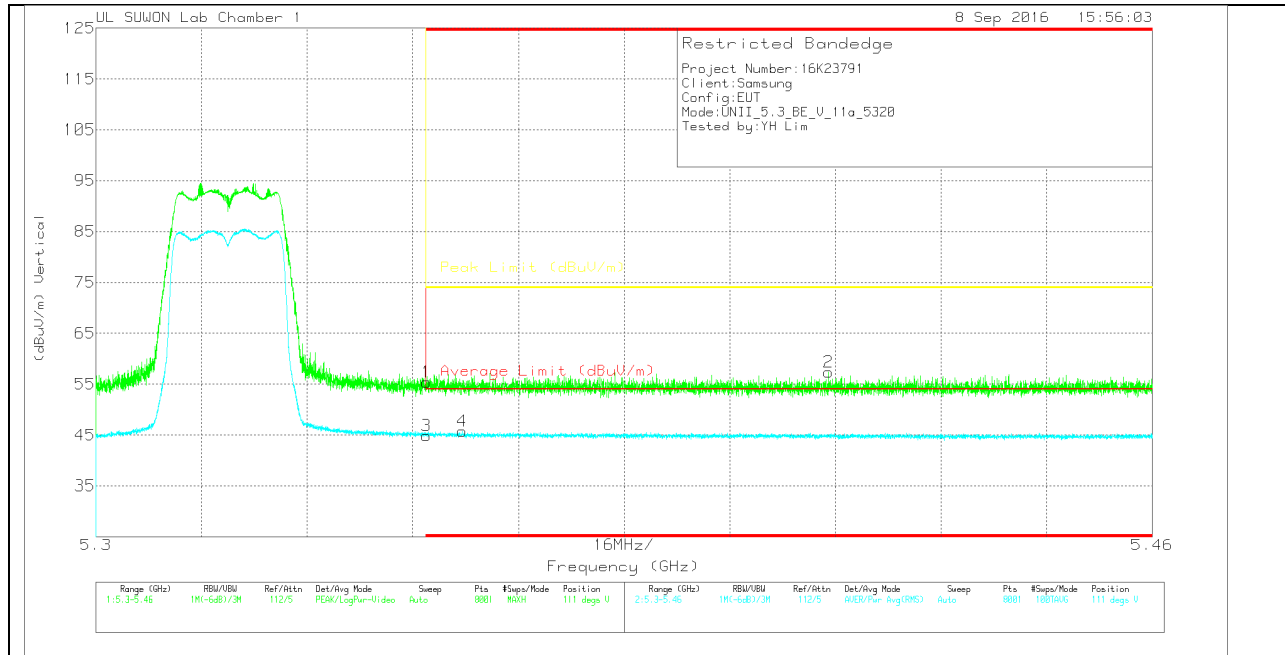
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	43.73	Pk	34.5	-23.3	54.93	-	-	74	-19.07	272	330	H
2	* 5.392	46.06	Pk	34.5	-23.3	57.26	-	-	74	-16.74	272	330	H
3	* 5.35	33.65	RMS	34.5	-23.3	44.85	54	-9.15	-	-	272	330	H
4	* 5.374	34.17	RMS	34.5	-23.3	45.37	54	-8.63	-	-	272	330	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.23	Pk	34.5	-23.3	55.43	-	-	74	-18.57	111	130	V
2	* 5.411	46.05	Pk	34.6	-23.3	57.35	-	-	74	-16.65	111	130	V
3	* 5.35	33.73	RMS	34.5	-23.3	44.93	54	-9.07	-	-	111	130	V
4	* 5.355	34.54	RMS	34.5	-23.3	45.74	54	-8.26	-	-	111	130	V

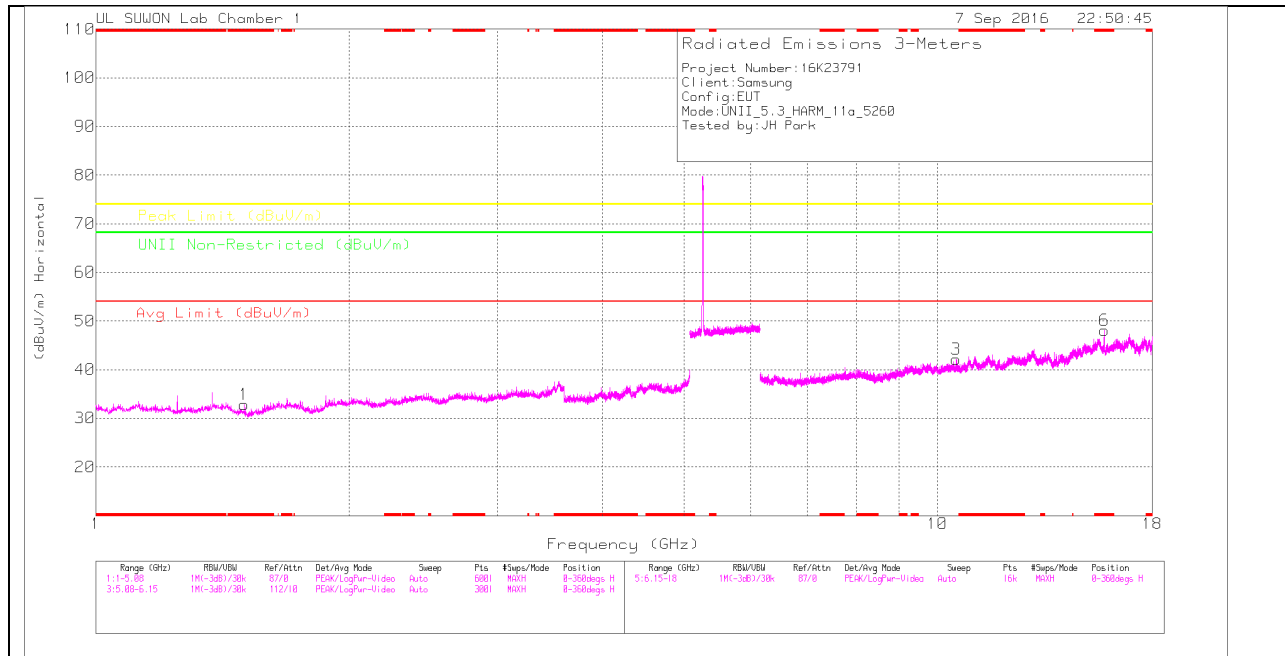
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

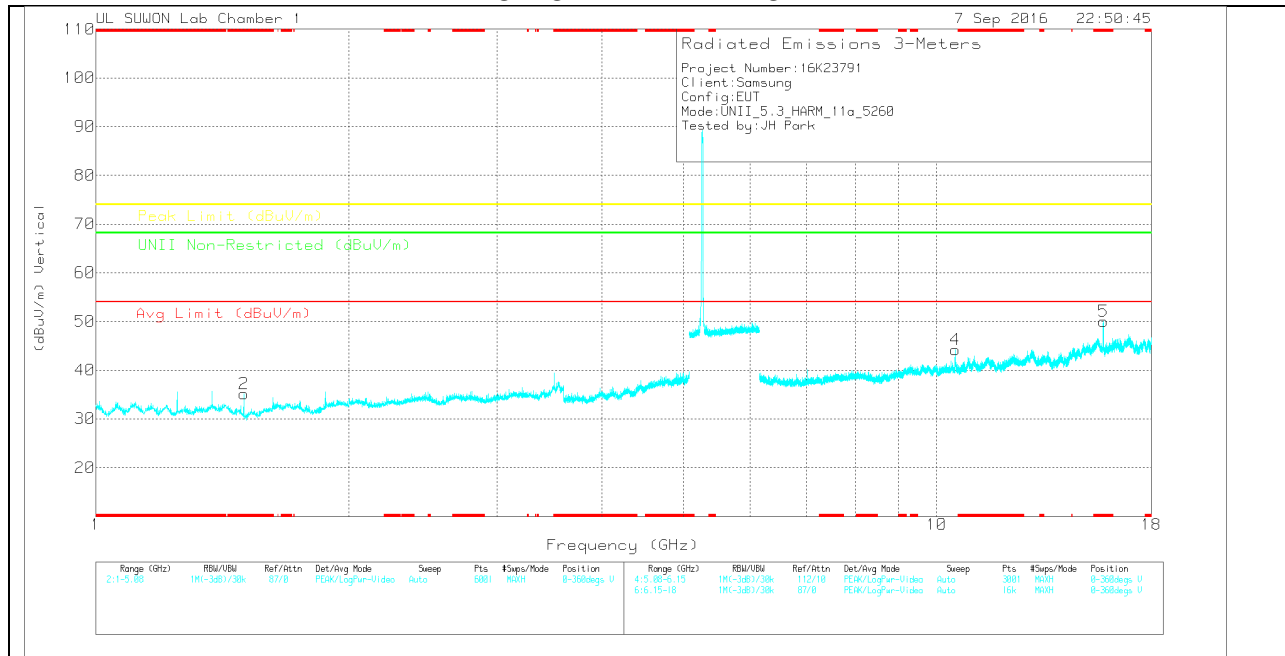
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.5	44.24	PK	28.6	-40	32.84	-	-	74	-41.16	-	-	0-360	150	H
2	* 1.5	46.54	PK	28.6	-40	35.14	-	-	74	-38.86	-	-	0-360	250	V
3	10.521	31.43	PK	37.9	-27.2	42.13	-	-	-	-	68.2	-26.07	0-360	250	H
6	* 15.782	25.04	PK	40.4	-17.4	48.04	-	-	74	-25.96	-	-	0-360	250	H
4	10.519	33.6	PK	37.9	-27.3	44.2	-	-	-	-	68.2	-24	0-360	250	V
5	* 15.779	26.89	PK	40.4	-17.3	49.99	-	-	74	-24.01	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

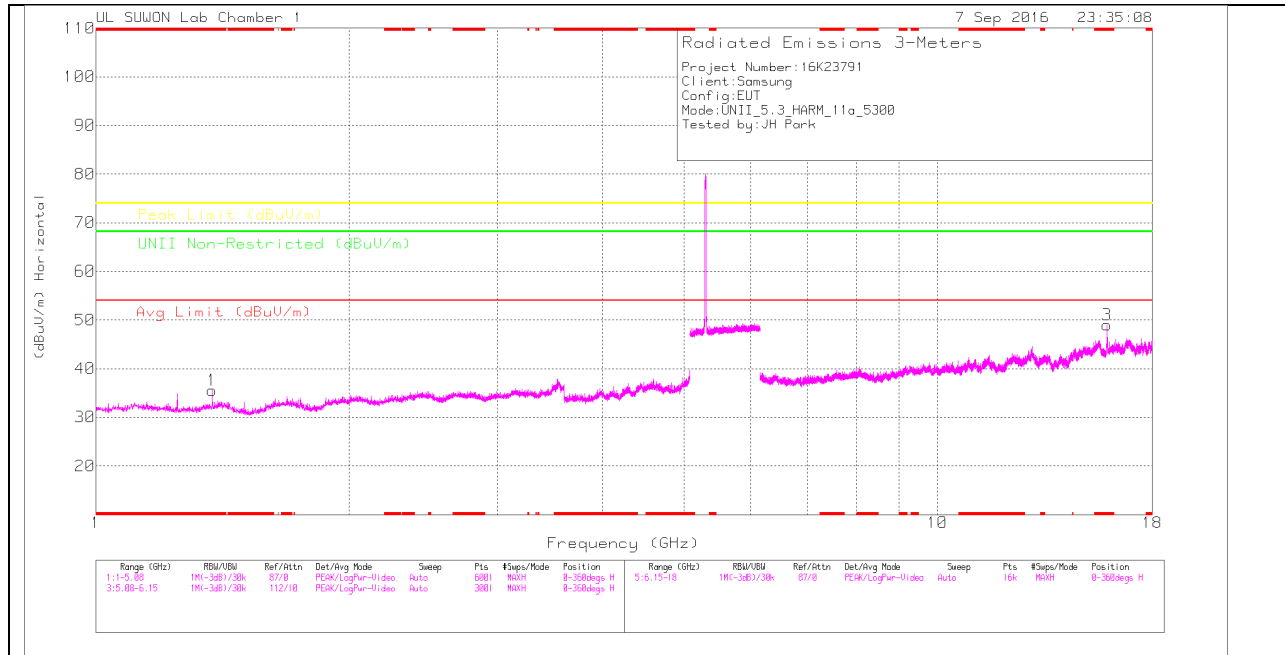
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.784	37.13	PK-U	40.4	-17.5	60.03	-	-	74	-13.97	-	-	25	374	H
* 15.779	25.53	ADR	40.4	-17.3	48.63	54	-5.37	-	-	-	-	25	374	H
* 15.786	38.02	PK-U	40.4	-17.6	60.82	-	-	74	-13.18	-	-	227	230	V
* 15.784	25.95	ADR	40.4	-17.5	48.85	54	-5.15	-	-	-	-	227	230	V
10.522	50.19	PK-U	37.9	-27.2	60.89	-	-	-	-	68.2	-7.31	219	294	V
10.523	41.92	PK-U	37.9	-27.2	52.62	-	-	-	-	68.2	-15.58	315	300	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

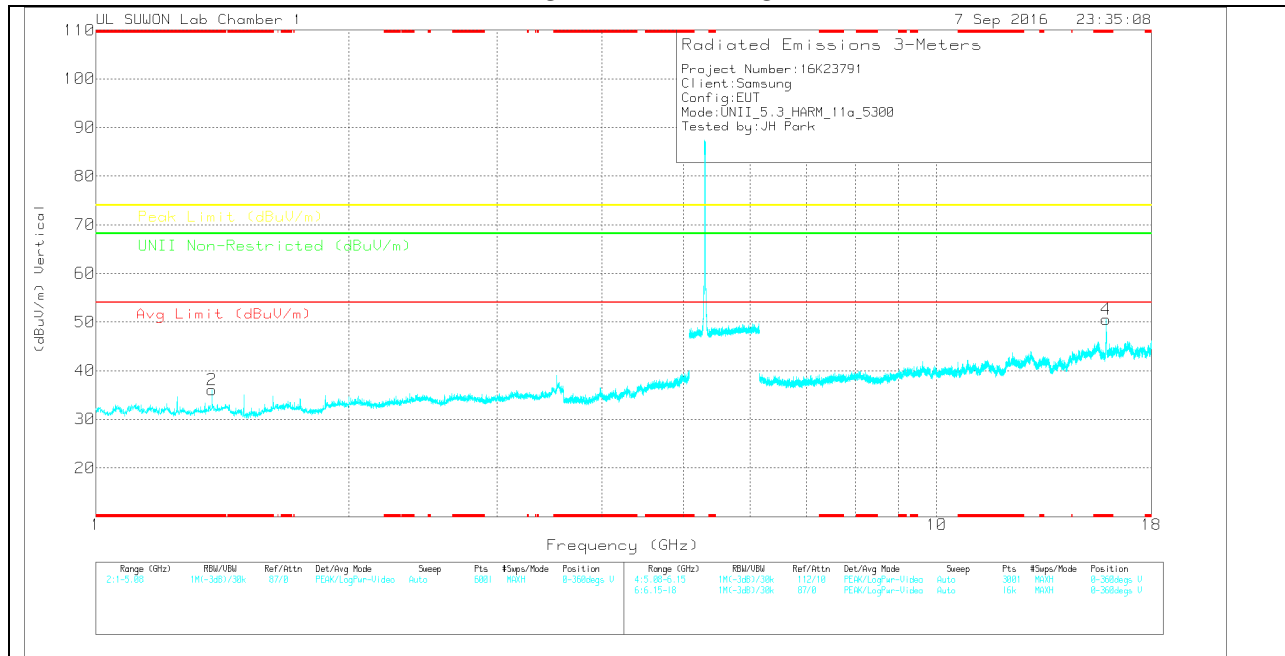
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	47.12	PK	28.5	-40.1	35.52	-	-	74	-38.48	-	-	0-360	150	H
2	* 1.375	47.71	PK	28.5	-40.1	36.11	-	-	74	-37.89	-	-	0-360	250	V
3	* 15.9	27.9	PK	40.5	-19.4	49	-	-	74	-25	-	-	0-360	250	H
4	* 15.905	29.48	PK	40.5	-19.4	50.58	-	-	74	-23.42	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

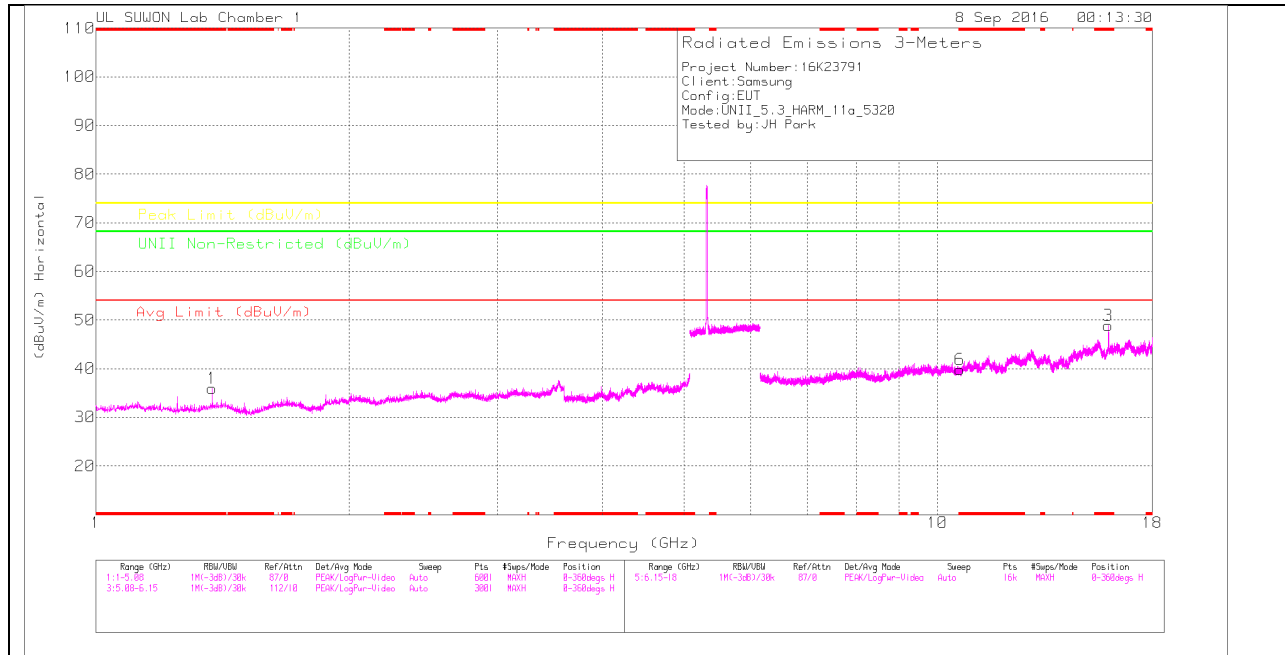
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.904	42.71	PK-U	40.5	-19.4	63.81	-	-	74	-10.19	-	-	227	199	V
* 15.902	30.72	ADR	40.5	-19.4	51.82	54	-2.18	-	-	-	-	227	199	V
* 15.905	36.61	PK-U	40.5	-19.4	57.71	-	-	74	-16.29	-	-	227	315	H
* 15.902	27.22	ADR	40.5	-19.4	48.32	54	-5.68	-	-	-	-	227	315	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

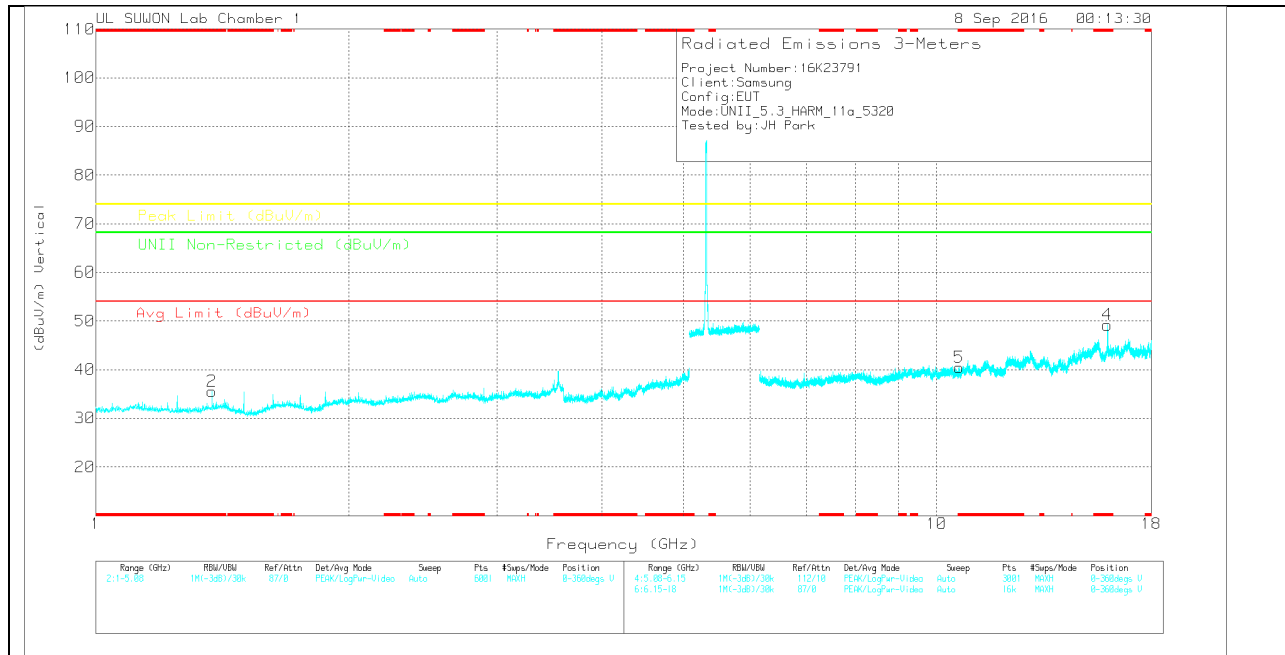
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	47.49	PK	28.5	-40.1	35.89	-	-	74	-38.11	-	-	0-360	250	H
2	* 1.375	47.19	PK	28.5	-40.1	35.59	-	-	74	-38.41	-	-	0-360	149	V
3	* 15.966	28.21	PK	40.6	-19.9	48.91	-	-	74	-25.09	-	-	0-360	250	H
6	* 10.639	29.5	PK	37.9	-27.6	39.8	-	-	74	-34.2	-	-	0-360	150	H
4	* 15.965	28.49	PK	40.6	-19.9	49.19	-	-	74	-24.81	-	-	0-360	150	V
5	* 10.64	30.17	PK	37.9	-27.6	40.47	-	-	74	-33.53	-	-	0-360	150	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.964	40.61	PK-U	40.6	-19.9	61.31	-	-	74	-12.69	-	-	19	380	H
* 15.962	28.73	ADR	40.6	-19.8	49.53	54	-4.47	-	-	-	-	19	380	H
* 15.962	42.46	PK-U	40.6	-19.8	63.26	-	-	74	-10.74	-	-	224	194	V
* 15.962	31.03	ADR	40.6	-19.8	51.83	54	-2.17	-	-	-	-	224	194	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

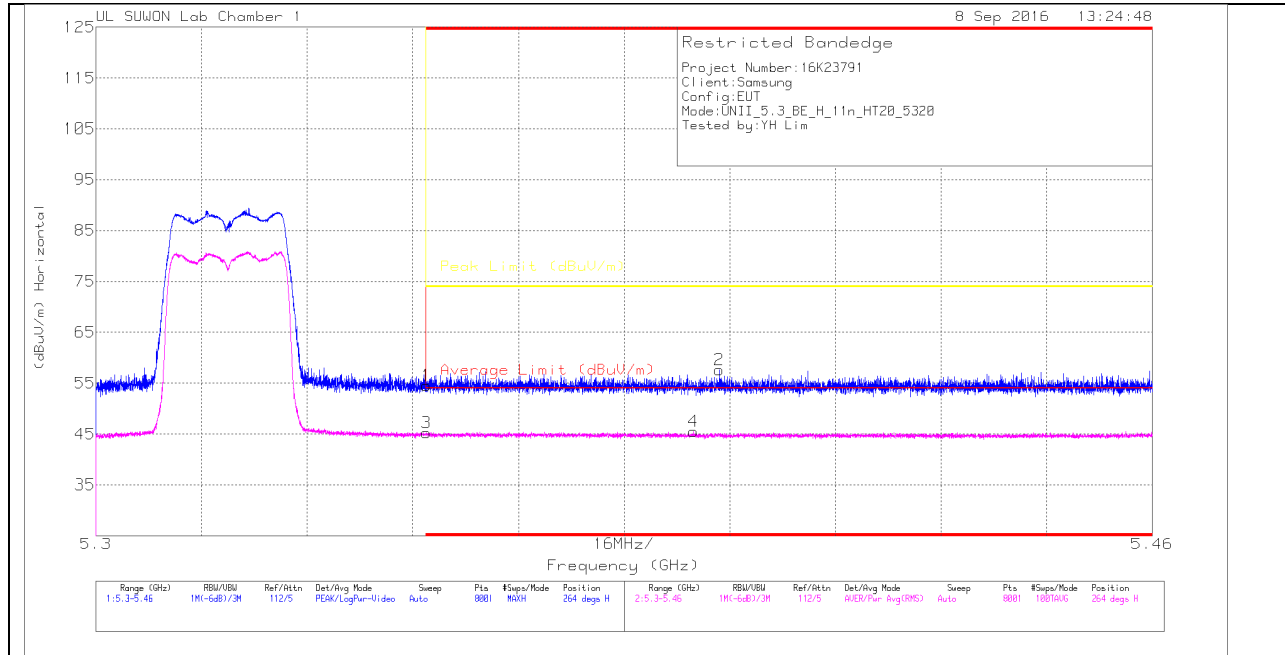
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.2. TX ABOVE 1GHz 802.11n HT20 2TX CDD MODE IN THE 5.3GHz BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

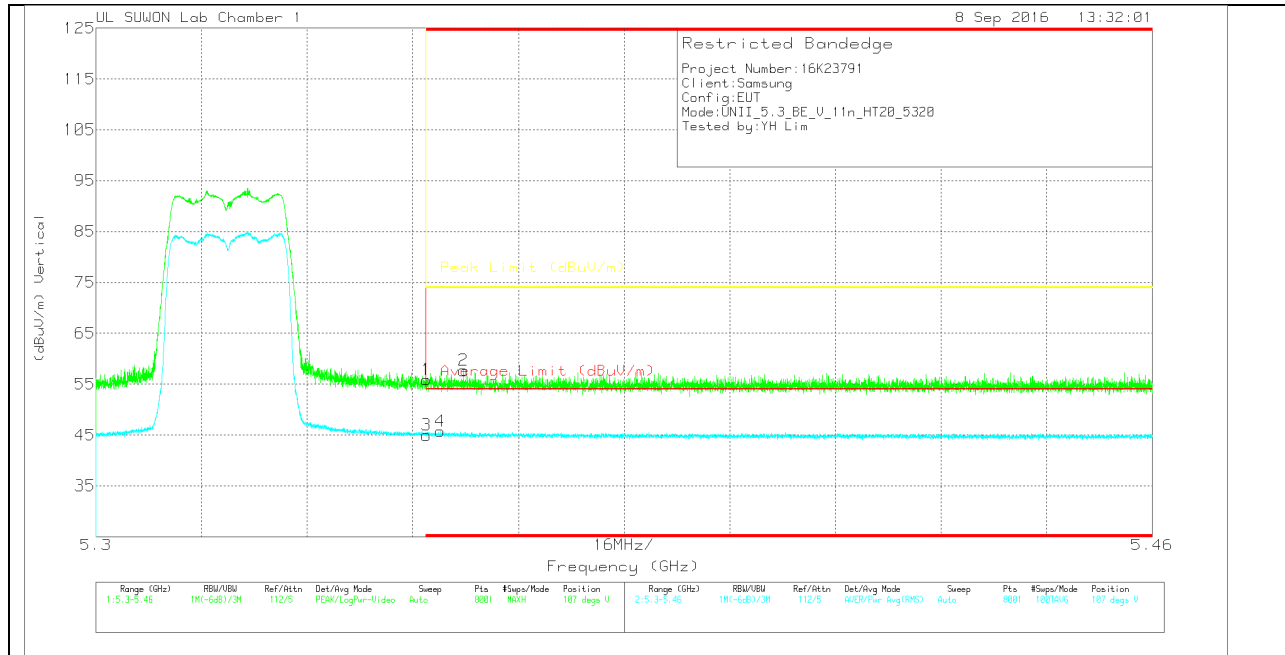
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	43.33	Pk	34.5	-23.3	54.53	-	-	74	-19.47	264	389	H
2	* 5.394	46.38	Pk	34.5	-23.3	57.58	-	-	74	-16.42	264	389	H
3	* 5.35	34.02	RMS	34.5	-23.3	45.22	54	-8.78	-	-	264	389	H
4	* 5.39	34.28	RMS	34.5	-23.3	45.48	54	-8.52	-	-	264	389	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.71	Pk		-23.3	55.91	-	-	74	-18.09	107	110	V
2	* 5.356	46.49	Pk		-23.3	57.69	-	-	74	-16.31	107	110	V
3	* 5.35	33.75	RMS		-23.3	44.95	54	-9.05	-	-	107	110	V
4	* 5.352	34.53	RMS		-23.3	45.73	54	-8.27	-	-	107	110	V

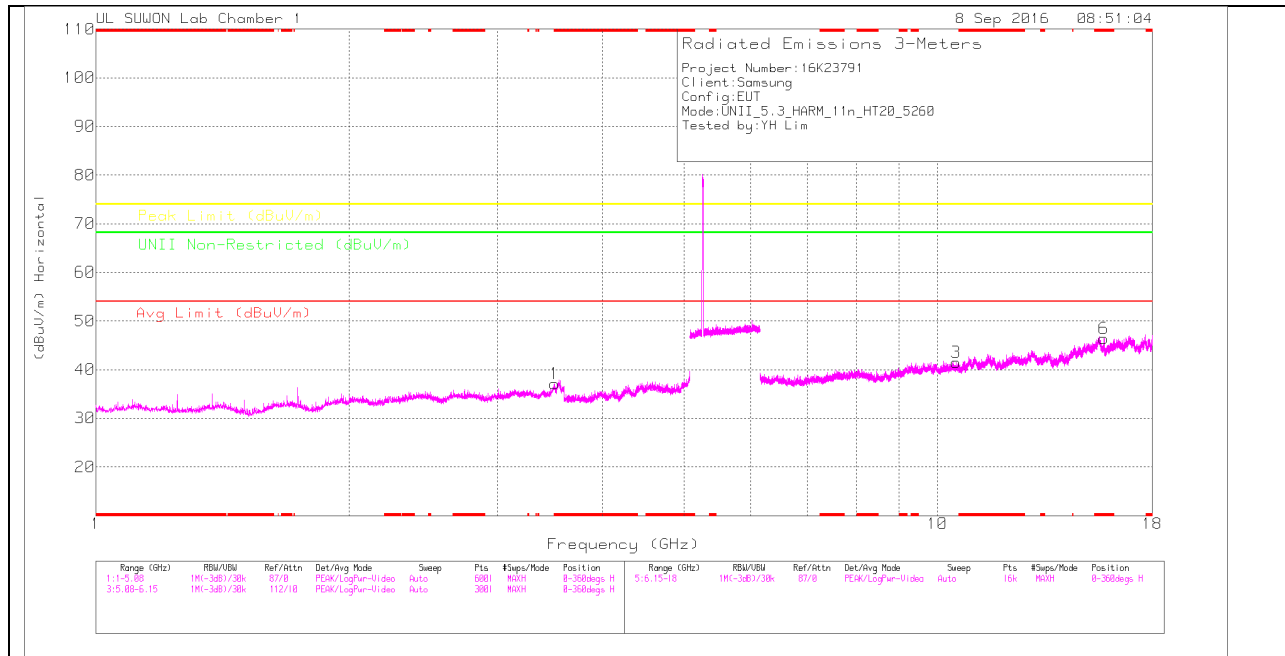
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

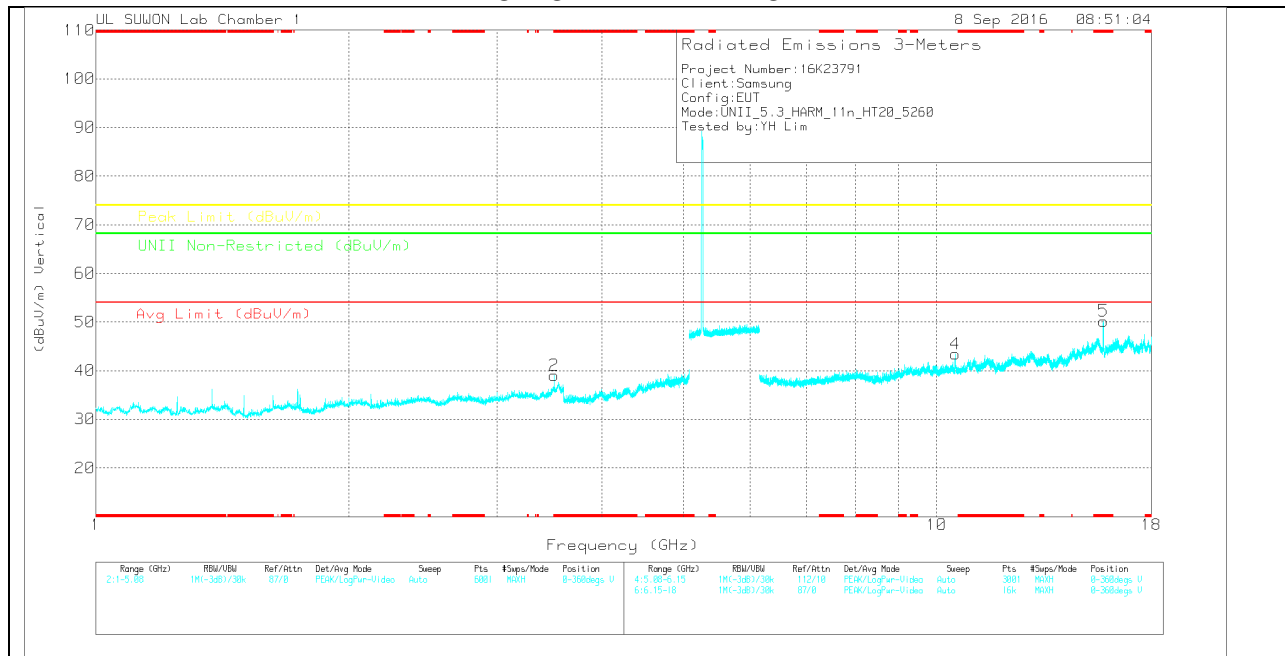
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.507	39.83	PK	32.8	-35.5	37.13	-	-	74	-36.87	-	-	0-360	250	H
2	* 3.506	41.79	PK	32.8	-35.5	39.09	-	-	74	-34.91	-	-	0-360	149	V
3	10.531	30.65	PK	37.9	-27.1	41.45	-	-	-	-	68.2	-26.75	0-360	250	H
6	* 15.773	23.07	PK	40.4	-17.1	46.37	-	-	74	-27.63	-	-	0-360	250	H
4	10.524	32.62	PK	37.9	-27.1	43.42	-	-	-	-	68.2	-24.78	0-360	250	V
5	* 15.78	27.12	PK	40.4	-17.3	50.22	-	-	74	-23.78	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

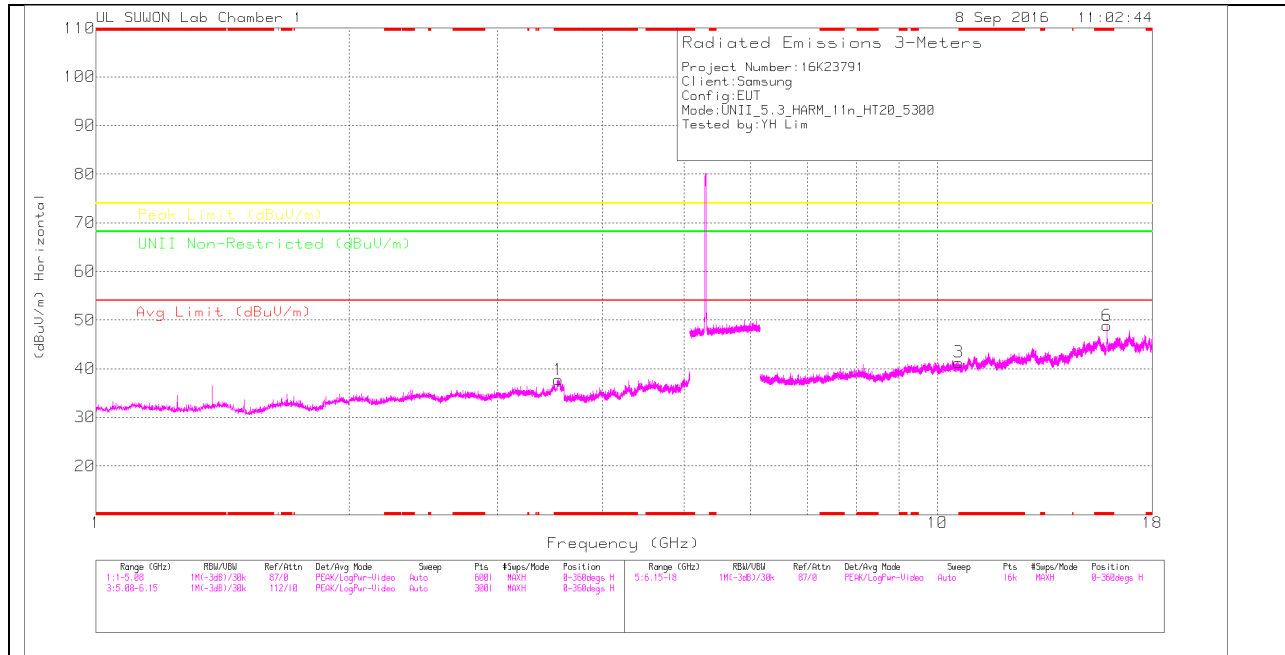
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.777	38.7	PK-U	40.4	-17.2	61.9	-	-	74	-12.1	-	-	320	200	V
* 15.778	26.46	ADR	40.4	-17.2	49.66	54	-4.34	-	-	-	-	320	200	V
* 15.779	37.18	PK-U	40.4	-17.2	60.38	-	-	74	-13.62	-	-	102	335	H
* 15.778	24.5	ADR	40.4	-17.2	47.7	54	-6.3	-	-	-	-	102	335	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

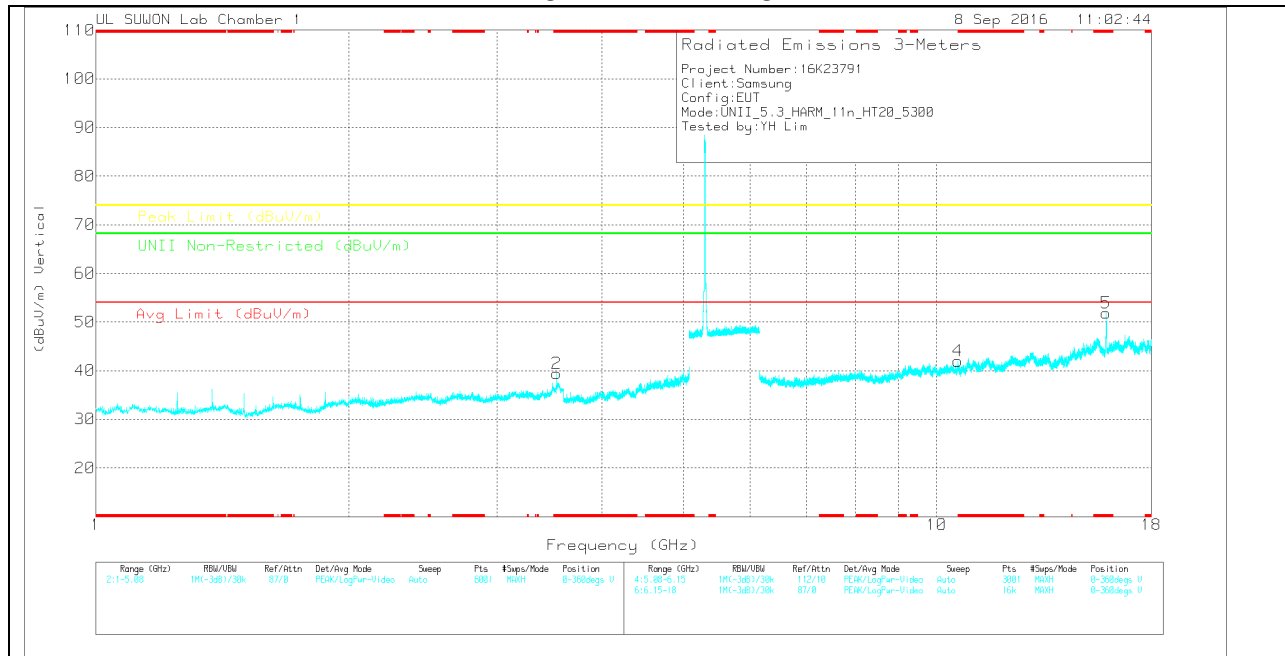
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.547	40.37	PK	32.8	-35.4	37.77	-	-	74	-36.23	-	-	0-360	250	H
2	* 3.534	42.07	PK	32.8	-35.4	39.47	-	-	74	-34.53	-	-	0-360	250	V
3	10.593	30.3	PK	37.9	-26.9	41.3	-	-	-	-	68.2	-26.9	0-360	250	H
6	* 15.901	27.71	PK	40.5	-19.4	48.81	-	-	74	-25.19	-	-	0-360	250	H
4	10.597	30.95	PK	37.9	-26.9	41.95	-	-	-	-	68.2	-26.25	0-360	250	V
5	* 15.9	30.74	PK	40.5	-19.4	51.84	-	-	74	-22.16	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

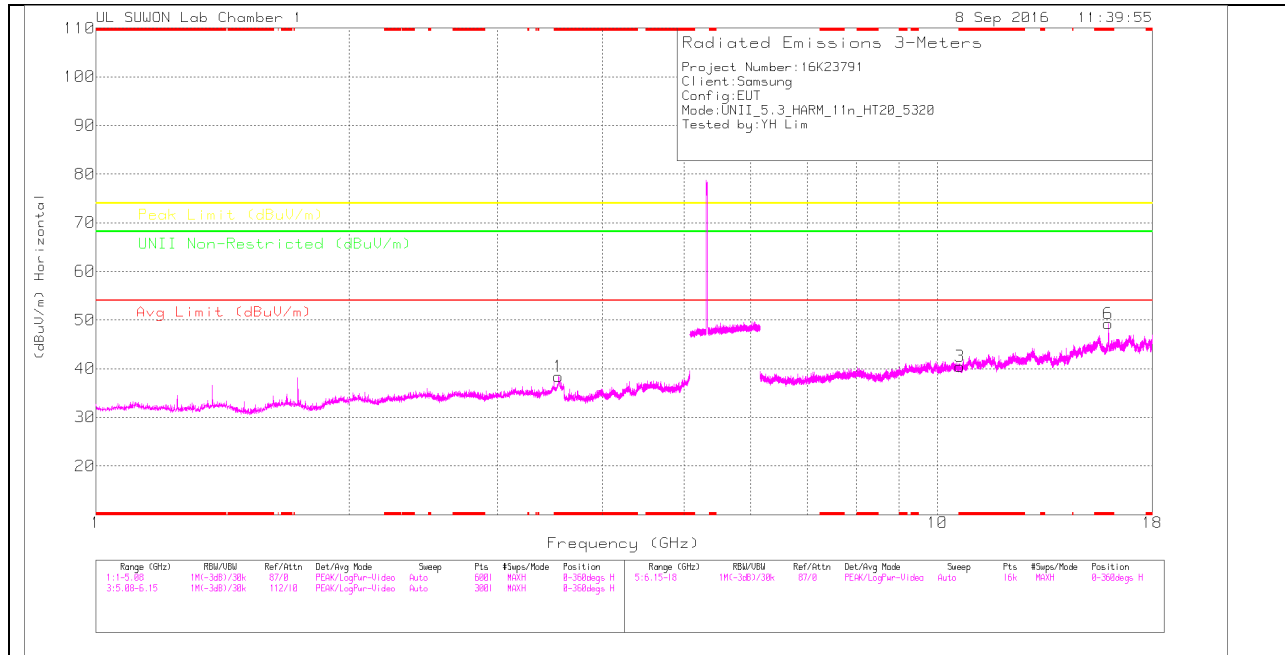
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.914	40.98	PK-U	40.5	-19.4	62.08	-	-	74	-11.92	-	-	104	372	H
* 15.901	28.17	ADR	40.5	-19.4	49.27	54	-4.73	-	-	-	-	104	372	H
* 15.907	42.22	PK-U	40.5	-19.4	63.32	-	-	74	-10.68	-	-	316	200	V
* 15.901	30.13	ADR	40.5	-19.4	51.23	54	-2.77	-	-	-	-	316	200	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

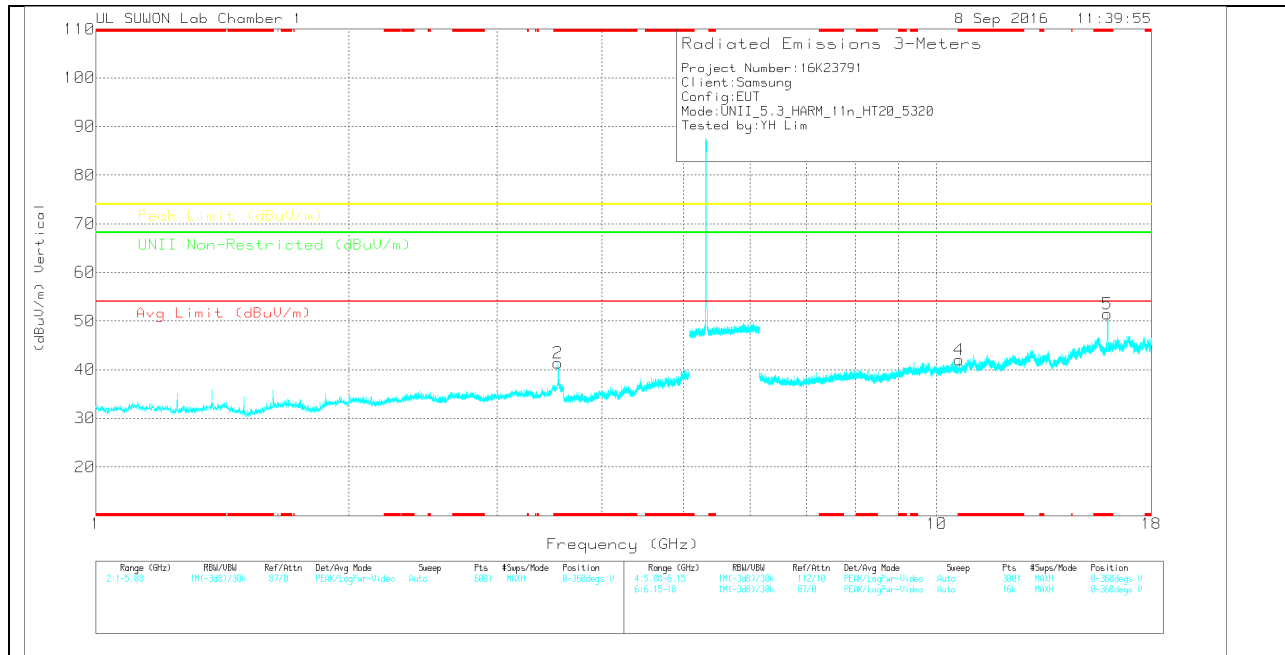
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.547	41.03	PK	32.8	-35.4	38.43	-	-	74	-35.57	-	-	0-360	250	H
2	* 3.547	43.93	PK	32.8	-35.4	41.33	-	-	74	-32.67	-	-	0-360	149	V
3	* 10.635	30.06	PK	37.9	-27.5	40.46	-	-	74	-33.54	-	-	0-360	250	H
6	* 15.959	28.44	PK	40.6	-19.8	49.24	-	-	74	-24.76	-	-	0-360	250	H
4	* 10.635	31.59	PK	37.9	-27.5	41.99	-	-	74	-32.01	-	-	0-360	250	V
5	* 15.962	30.6	PK	40.6	-19.8	51.4	-	-	74	-22.6	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.967	41.53	PK-U	40.6	-19.9	62.23	-	-	74	-11.77	-	-	104	390	H
* 15.964	28.56	ADR	40.6	-19.9	49.26	54	-4.74	-	-	-	-	104	390	H
* 15.967	43.23	PK-U	40.6	-19.9	63.93	-	-	74	-10.07	-	-	320	190	V
* 15.961	31.19	ADR	40.6	-19.8	51.99	54	-2.01	-	-	-	-	320	190	V

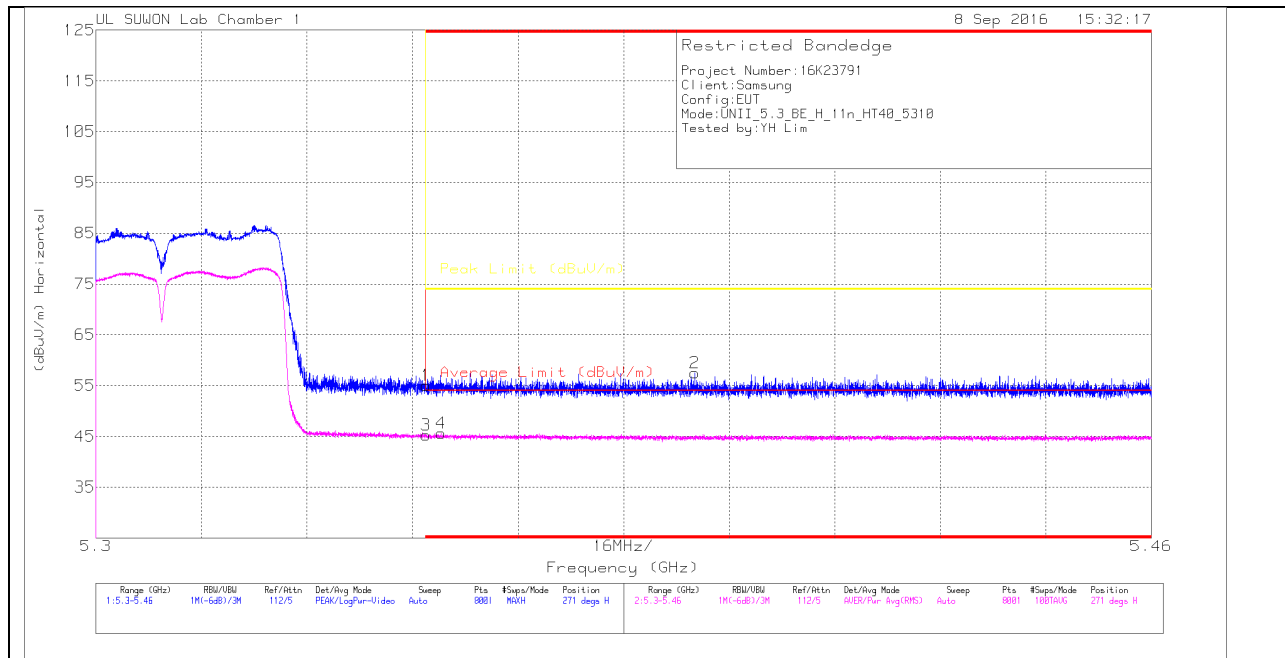
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

11.2.3. TX ABOVE 1GHz 802.11n HT40 2TX CDD MODE IN THE 5.3GHz BAND AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

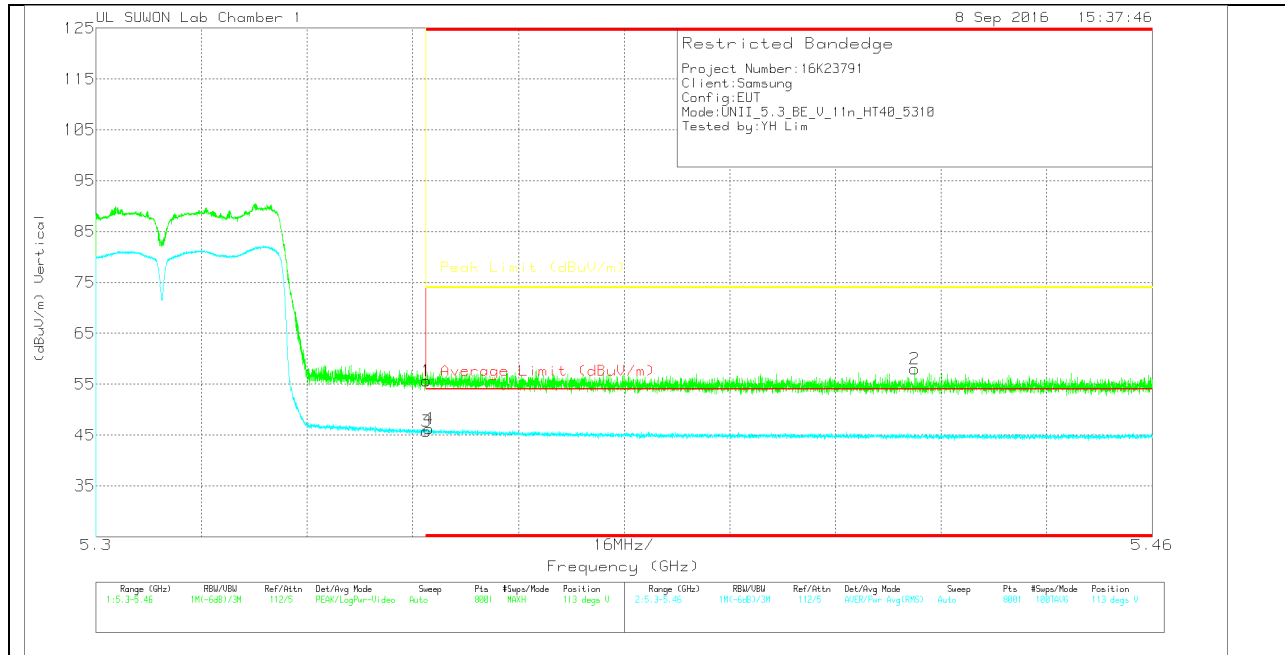
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	43.79	Pk	34.5	-23.3	54.99	-	-	74	-19.01	271	390	H
2	* 5.391	46.26	Pk	34.5	-23.3	57.46	-	-	74	-16.54	271	390	H
3	* 5.35	34.03	RMS	34.5	-23.3	45.23	54	-8.77	-	-	271	390	H
4	* 5.352	34.37	RMS	34.5	-23.3	45.57	54	-8.43	-	-	271	390	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	44.47	Pk		-23.3	55.67	-	-	74	-18.33	113	130	V
2	* 5.424	46.65	Pk		-23.2	58.05	-	-	74	-15.95	113	130	V
3	* 5.35	34.56	RMS		-23.3	45.76	54	-8.24	-	-	113	130	V
4	* 5.35	35	RMS		-23.3	46.2	54	-7.8	-	-	113	130	V

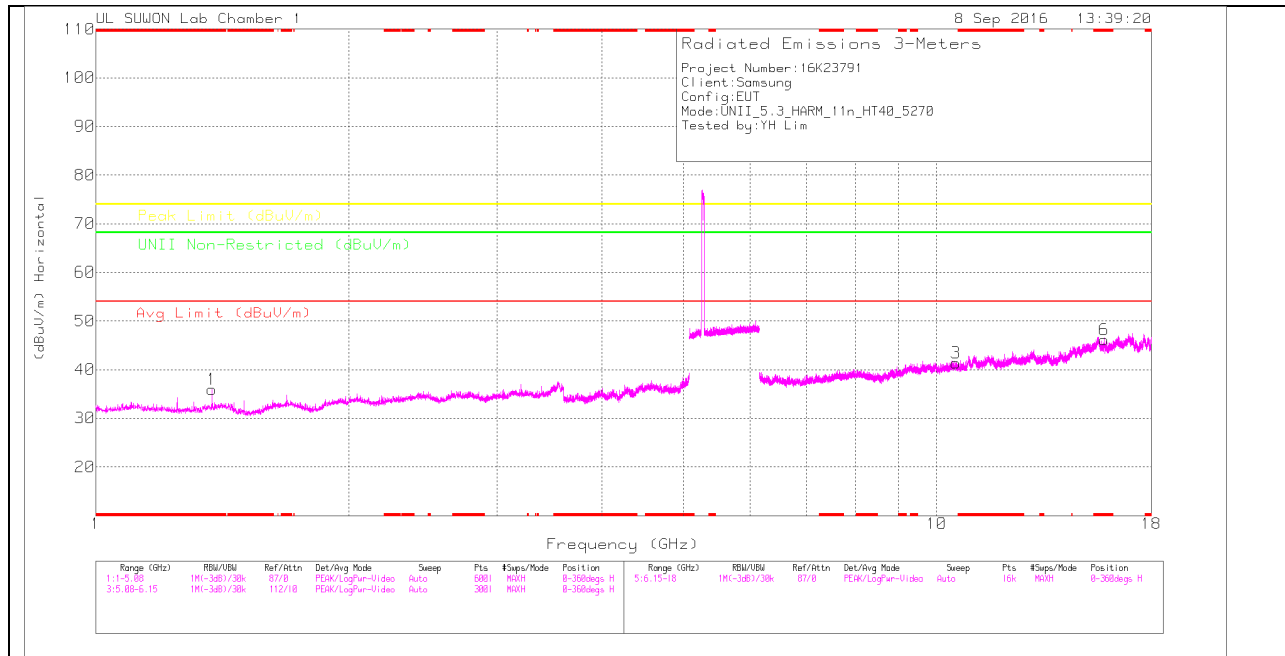
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

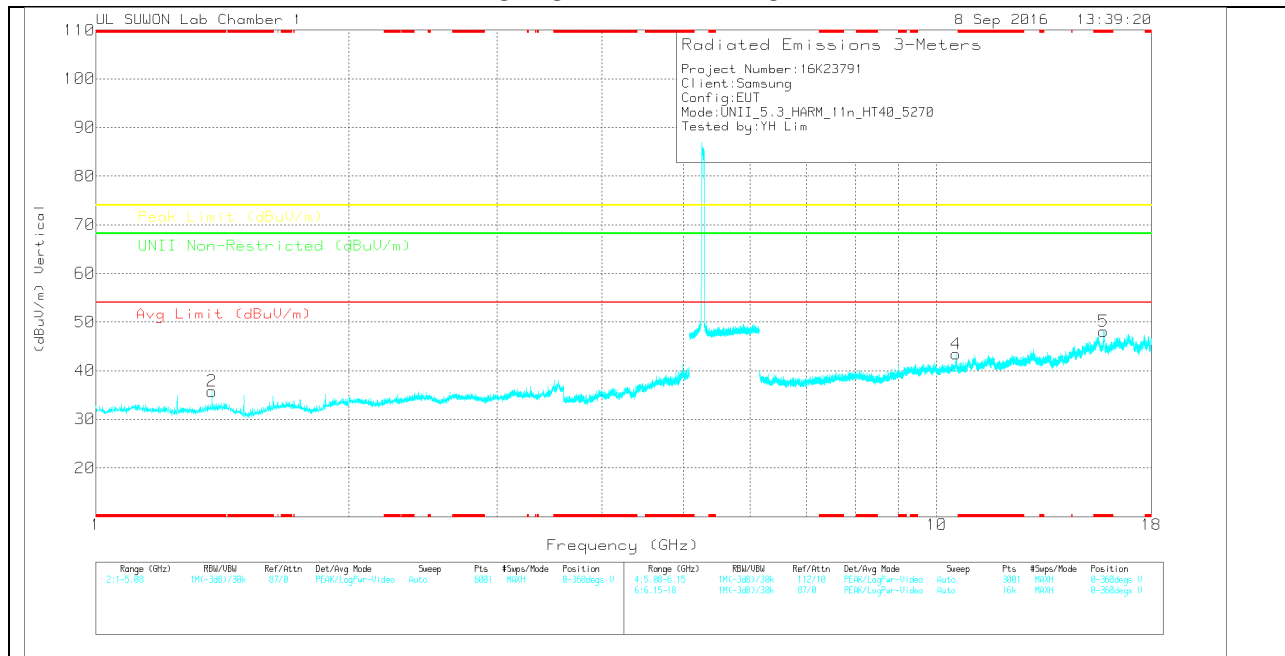
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	47.48	PK	28.5	-40.1	35.88	-	-	74	-38.12	-	-	0-360	250	H
2	* 1.375	47.34	PK	28.5	-40.1	35.74	-	-	74	-38.26	-	-	0-360	149	V
3	10.539	30.62	PK	37.9	-27.1	41.42	-	-	-	-	68.2	-26.78	0-360	250	H
6	* 15.813	24.3	PK	40.5	-18.6	46.2	-	-	74	-27.8	-	-	0-360	250	H
4	10.54	32.63	PK	37.9	-27.1	43.43	-	-	-	-	68.2	-24.77	0-360	250	V
5	* 15.802	25.8	PK	40.5	-18.2	48.1	-	-	74	-25.9	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

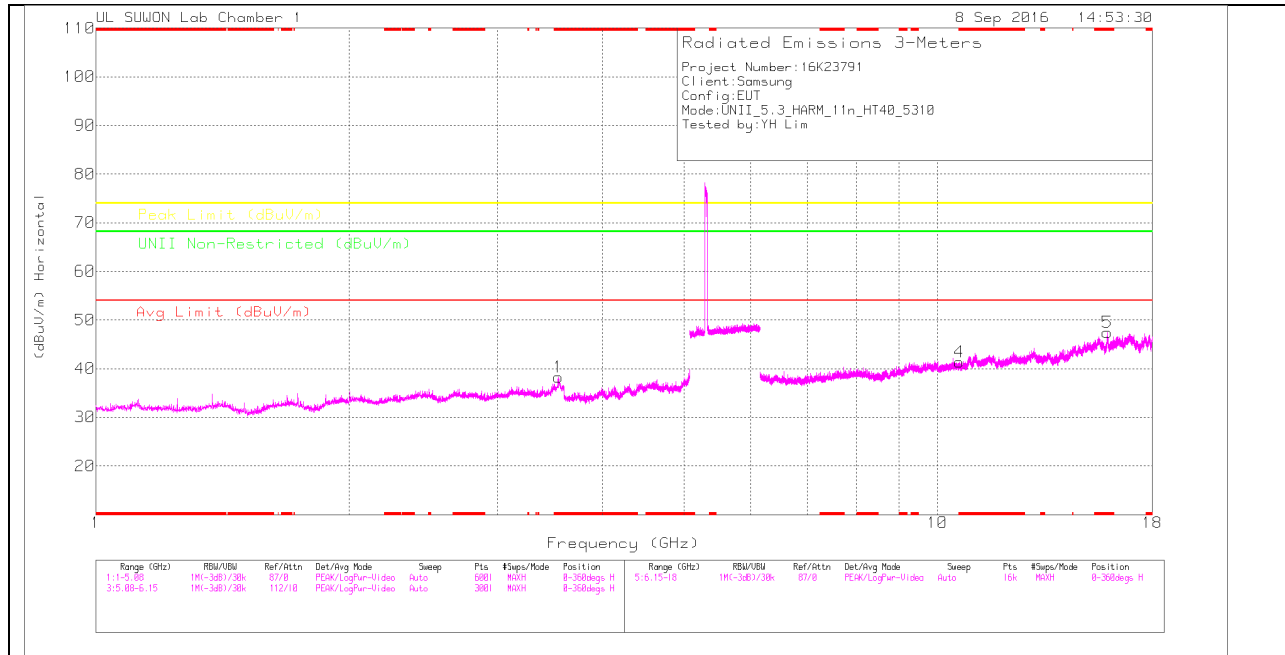
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.826	38.09	PK-U	40.5	-19	59.59	-	-	74	-14.41	-	-	314	200	V
* 15.814	26.33	ADR	40.5	-18.6	48.23	54	-5.77	-	-	-	-	314	200	V
* 15.82	34.91	PK-U	40.5	-18.8	56.61	-	-	74	-17.39	-	-	52	250	H
* 15.825	22.92	ADR	40.5	-19	44.42	54	-9.58	-	-	-	-	52	250	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

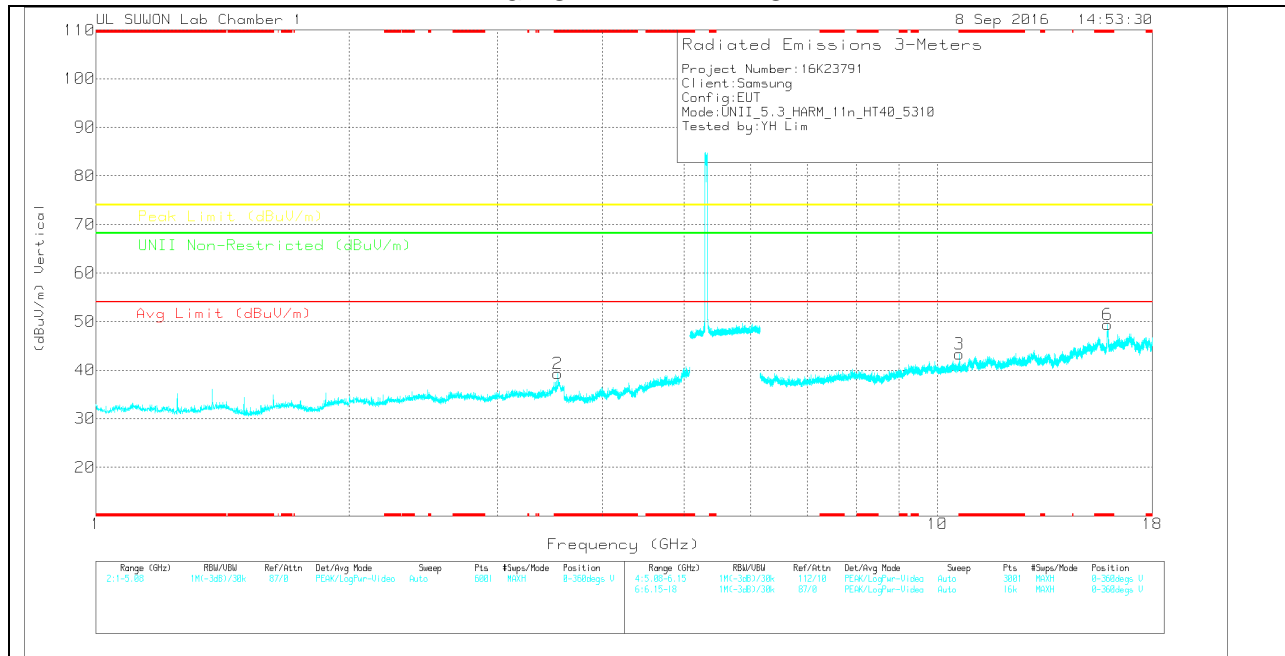
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.546	40.9	PK	32.8	-35.4	38.3	-	-	74	-35.7	-	-	0-360	250	H
2	* 3.54	41.89	PK	32.8	-35.4	39.29	-	-	74	-34.71	-	-	0-360	250	V
4	* 10.622	30.54	PK	37.9	-27.1	41.34	-	-	74	-32.66	-	-	0-360	250	H
5	* 15.914	26.39	PK	40.5	-19.4	47.49	-	-	74	-26.51	-	-	0-360	250	H
3	* 10.621	32.5	PK	37.9	-27.1	43.3	-	-	74	-30.7	-	-	0-360	250	V
6	* 15.923	28.27	PK	40.5	-19.4	49.37	-	-	74	-24.63	-	-	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 15.945	36.77	PK-U	40.6	-19.6	57.77	-	-	74	-16.23	-	-	60	328	H
* 15.925	24.45	ADR	40.6	-19.3	45.75	54	-8.25	-	-	-	-	60	328	H
* 15.922	39.78	PK-U	40.5	-19.4	60.88	-	-	74	-13.12	-	-	321	192	V
* 15.934	27.63	ADR	40.6	-19.4	48.83	54	-5.17	-	-	-	-	321	192	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

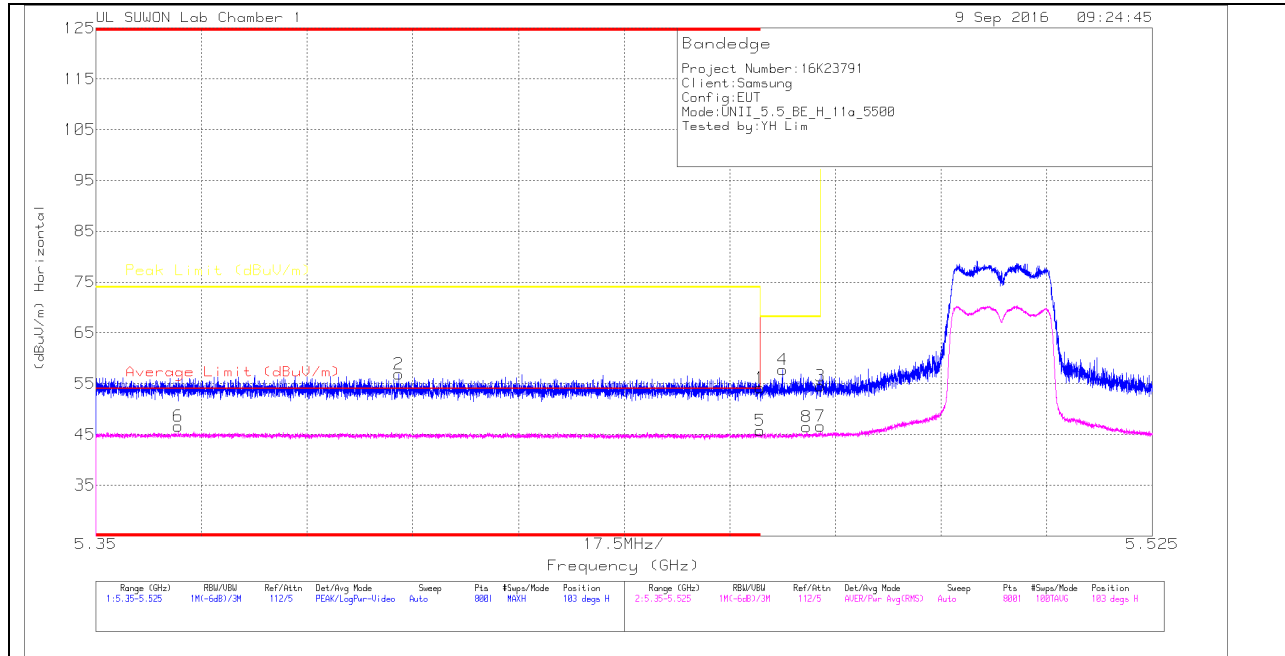
ADR - U-NII AD primary method, RMS average

11.3. 5.5-5.6 GHz

11.3.1. TX ABOVE 1 GHz 802.11a 2TX CDD MODE IN THE 5.5 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

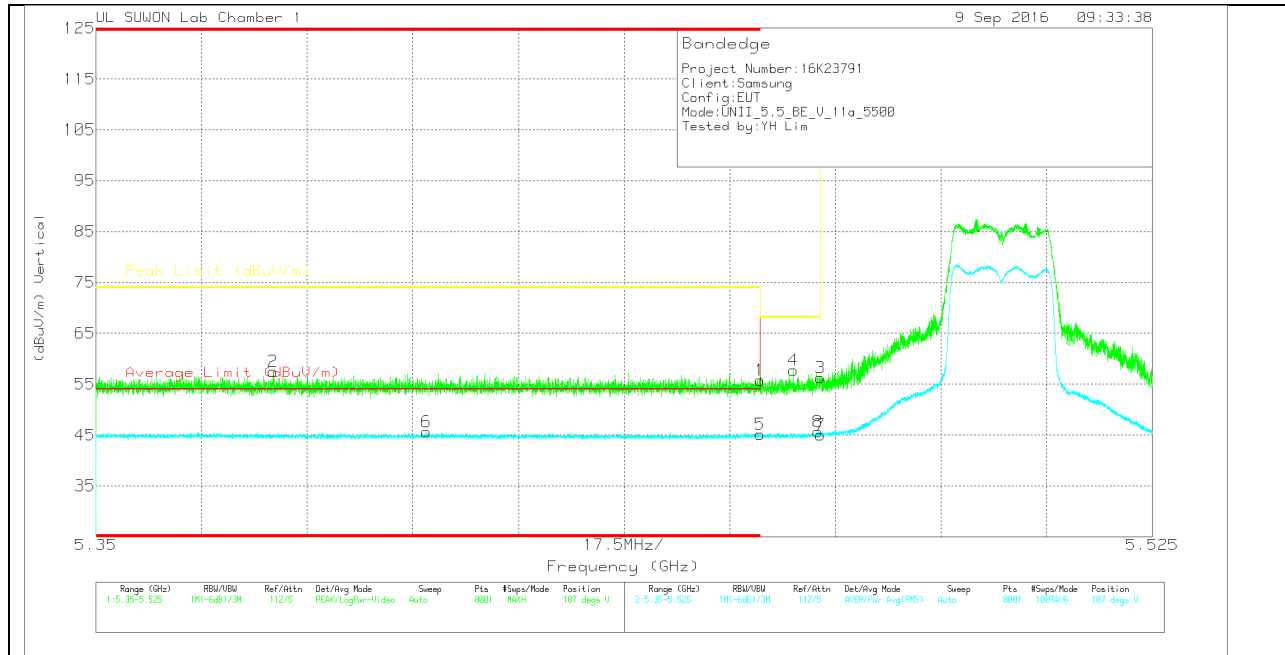
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	42.73	Pk	34.6	-23.2	54.13	-	-	74	-19.87	103	164	H
2	* 5.4	45.57	Pk	34.6	-23.3	56.87	-	-	74	-17.13	103	164	H
3	5.47	43.05	Pk	34.6	-23.1	54.55	-	-	68.2	-13.65	103	164	H
4	5.464	46.27	Pk	34.6	-23.1	57.77	-	-	68.2	-10.43	103	164	H
5	* 5.46	33.27	RMS	34.6	-23.2	44.67	54	-9.33	-	-	103	164	H
6	* 5.364	34.29	RMS	34.5	-23.3	45.49	54	-8.51	-	-	103	164	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	44.34	Pk	34.6	-23.2	55.74	-	-	74	-18.26	107	125	V
2	* 5.379	46.28	Pk	34.5	-23.3	57.48	-	-	74	-16.52	107	125	V
3	5.47	44.78	Pk	34.6	-23.1	56.28	-	-	68.2	-11.92	107	125	V
4	5.466	46.3	Pk	34.6	-23.1	57.8	-	-	68.2	-10.4	107	125	V
5	* 5.46	33.72	RMS	34.6	-23.2	45.12	54	-8.88	-	-	107	125	V
6	* 5.405	34.36	RMS	34.6	-23.3	45.66	54	-8.34	-	-	107	125	V

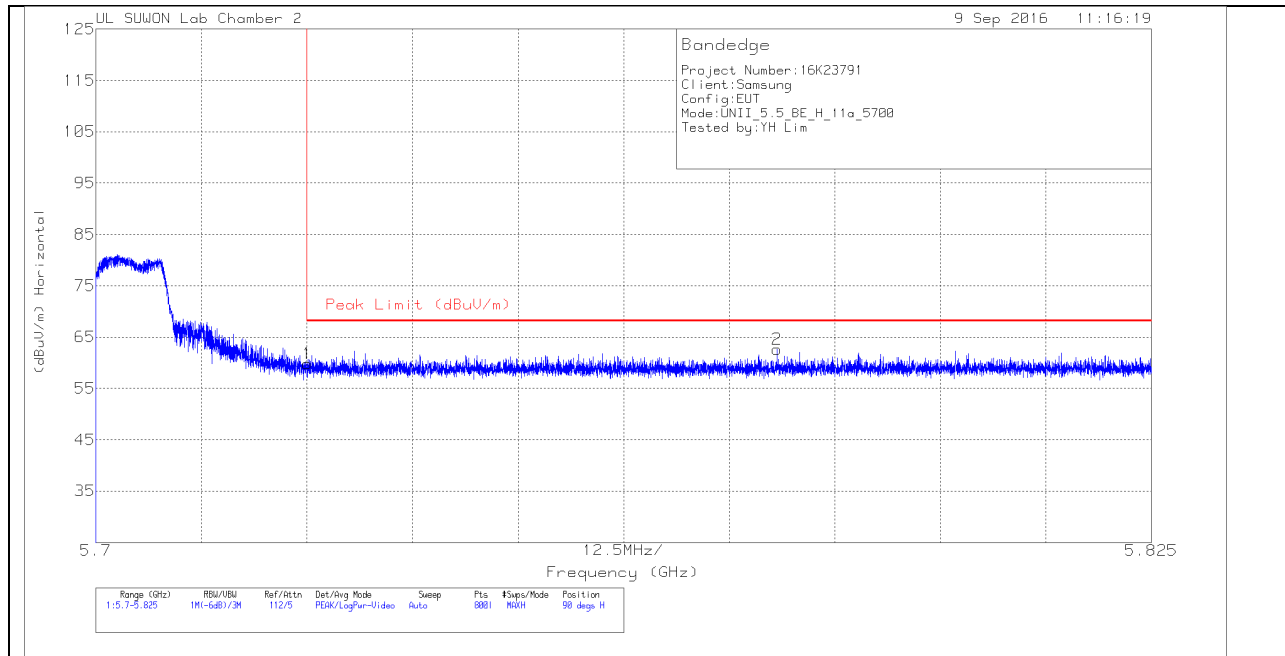
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

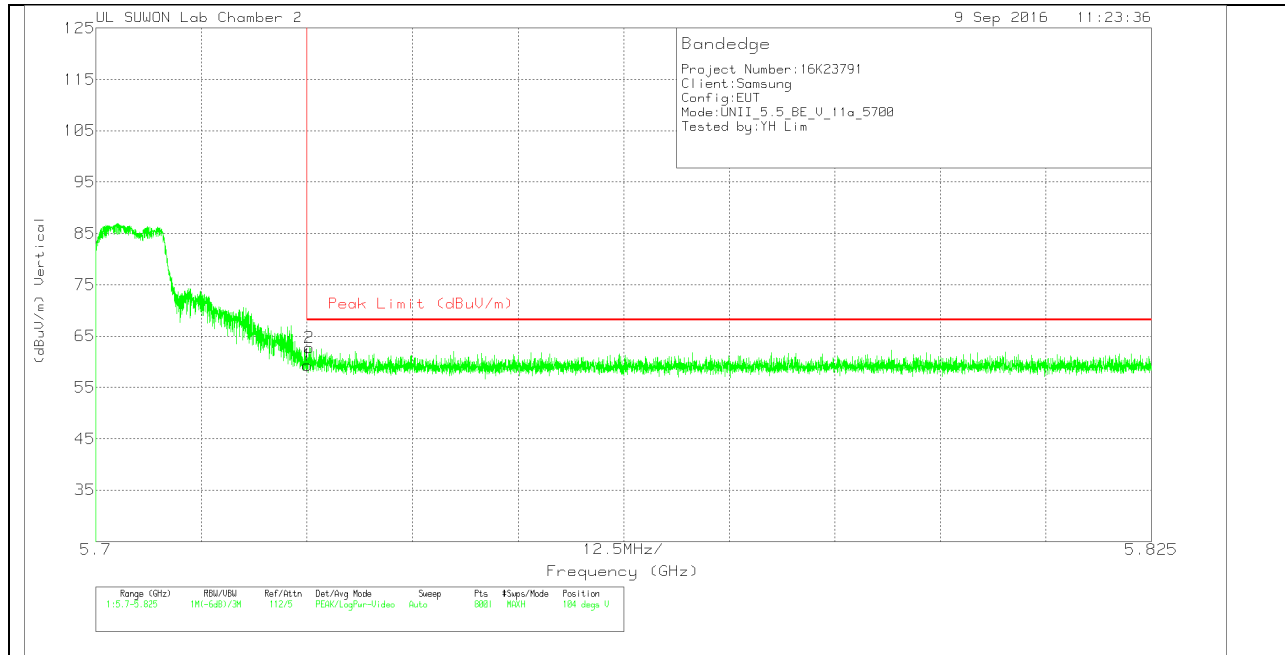
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.67	Pk	34.7	-15.6	59.77	68.2	-8.43	90	185	H
2	5.781	43.44	Pk	34.7	-15.5	62.64	68.2	-5.56	90	185	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

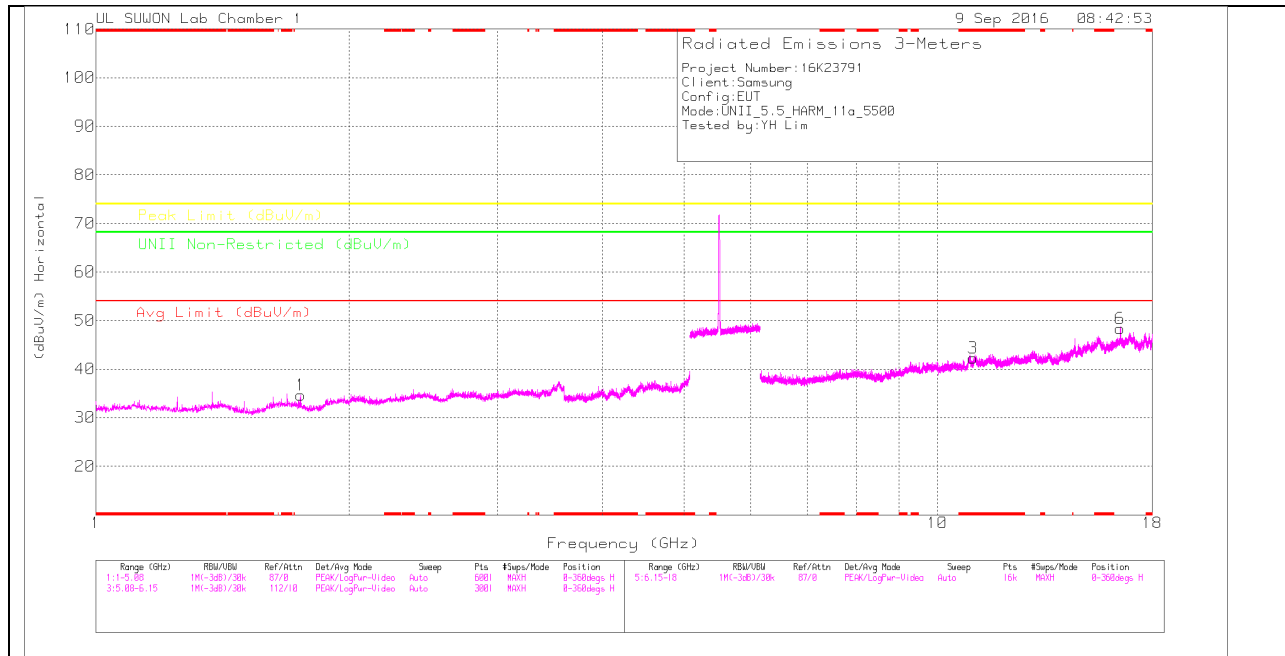
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(001687 24)_150619	Path_2_10dB	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	40.28	Pk	34.7	-15.6	59.38	68.2	-8.82	104	130	V
2	5.725	43.6	Pk	34.7	-15.6	62.7	68.2	-5.5	104	130	V

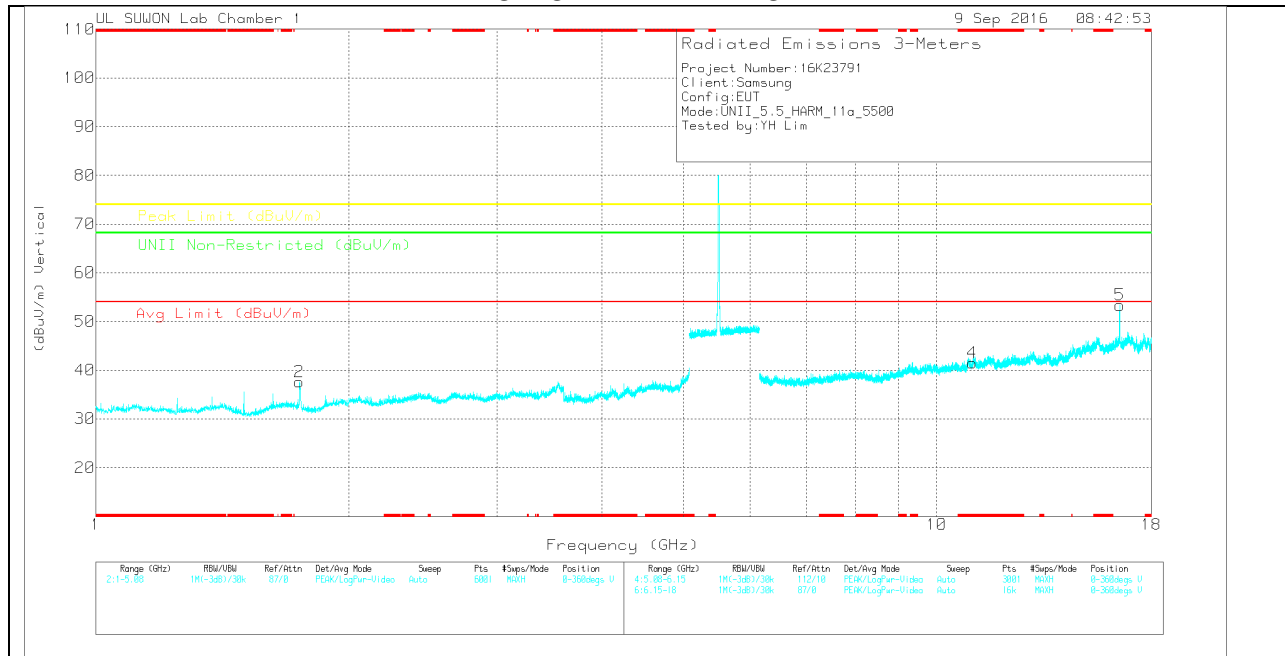
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.75	43.89	PK	29.9	-39.2	34.59	-	-	-	-	68.2	-33.61	0-360	250	H
2	1.747	46.99	PK	29.8	-39.2	37.59	-	-	-	-	68.2	-30.61	0-360	250	V
3	* 11.021	31.32	PK	38.2	-27.2	42.32	-	-	74	-31.68	-	-	0-360	150	H
6	16.495	29.47	PK	41.1	-22.2	48.37	-	-	-	-	68.2	-19.83	0-360	250	H
4	* 11.024	30.49	PK	38.2	-27.2	41.49	-	-	74	-32.51	-	-	0-360	150	V
5	16.5	34.43	PK	41.1	-22.2	53.33	-	-	-	-	68.2	-14.87	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK – Peak detector

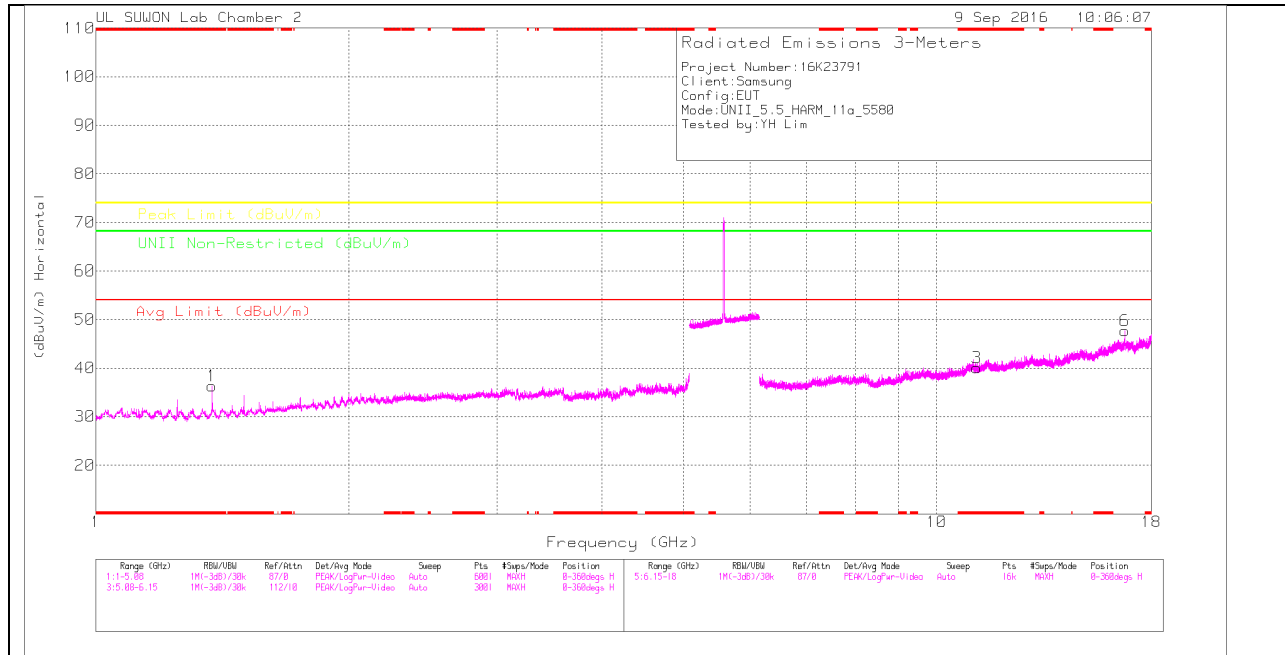
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168717)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
16.495	42.72	PK-U	41.1	-22.2	61.62	-	-	-	-	68.2	-6.58	95	200	H
16.506	44.81	PK-U	41.1	-22.2	63.71	-	-	-	-	68.2	-4.49	314	185	V

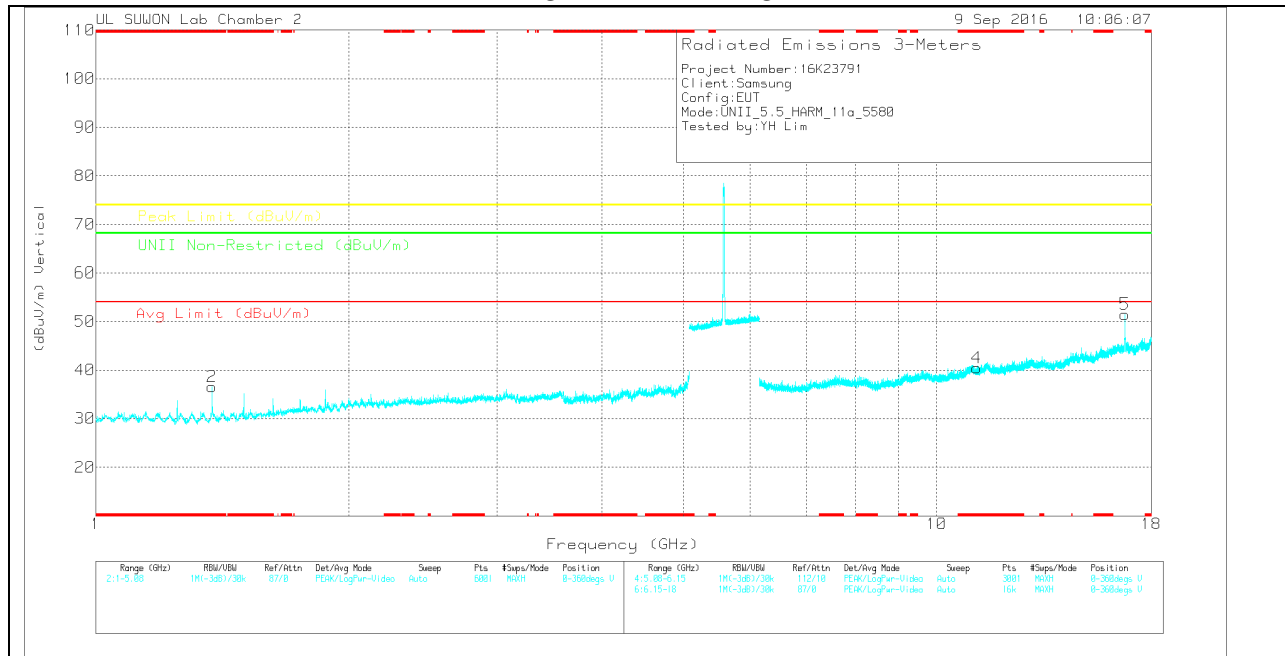
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

MID CHANNEL HORIZONTAL



MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	35.67	Pk	28.4	-27.7	36.37	-	-	74	-37.63	-	-	0-360	250	H
2	* 1.375	35.93	Pk	28.4	-27.7	36.63	-	-	74	-37.37	-	-	0-360	250	V
3	* 11.161	19.7	Pk	38.1	-17.7	40.1	-	-	74	-33.9	-	-	0-360	150	H
6	16.738	22.33	Pk	41	-15.6	47.73	-	-	-	-	68.2	-20.47	0-360	250	H
4	* 11.164	20.01	Pk	38.1	-17.7	40.41	-	-	74	-33.59	-	-	0-360	250	V
5	16.741	26.11	Pk	41	-15.6	51.51	-	-	-	-	68.2	-16.69	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk – Peak detector

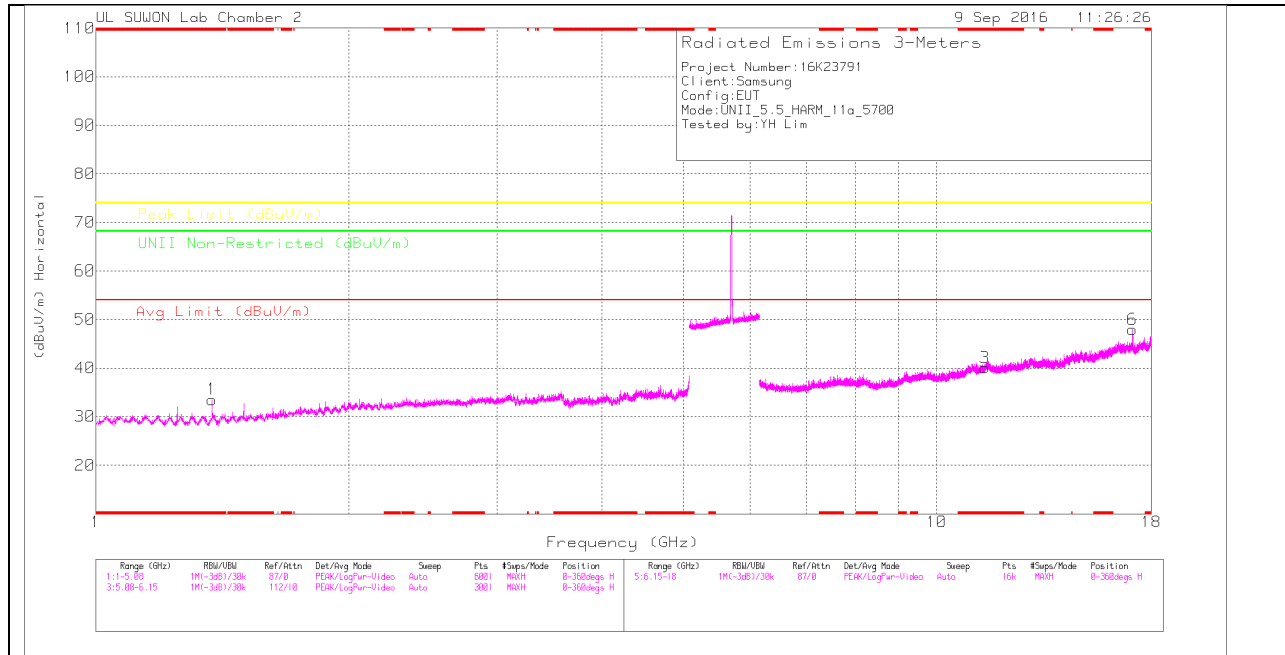
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
16.746	34.96	PK-U	41	-15.6	60.36	-	-	-	-	68.2	-7.84	97	400	H
16.747	35.93	PK-U	41	-15.6	61.33	-	-	-	-	68.2	-6.87	68	236	V

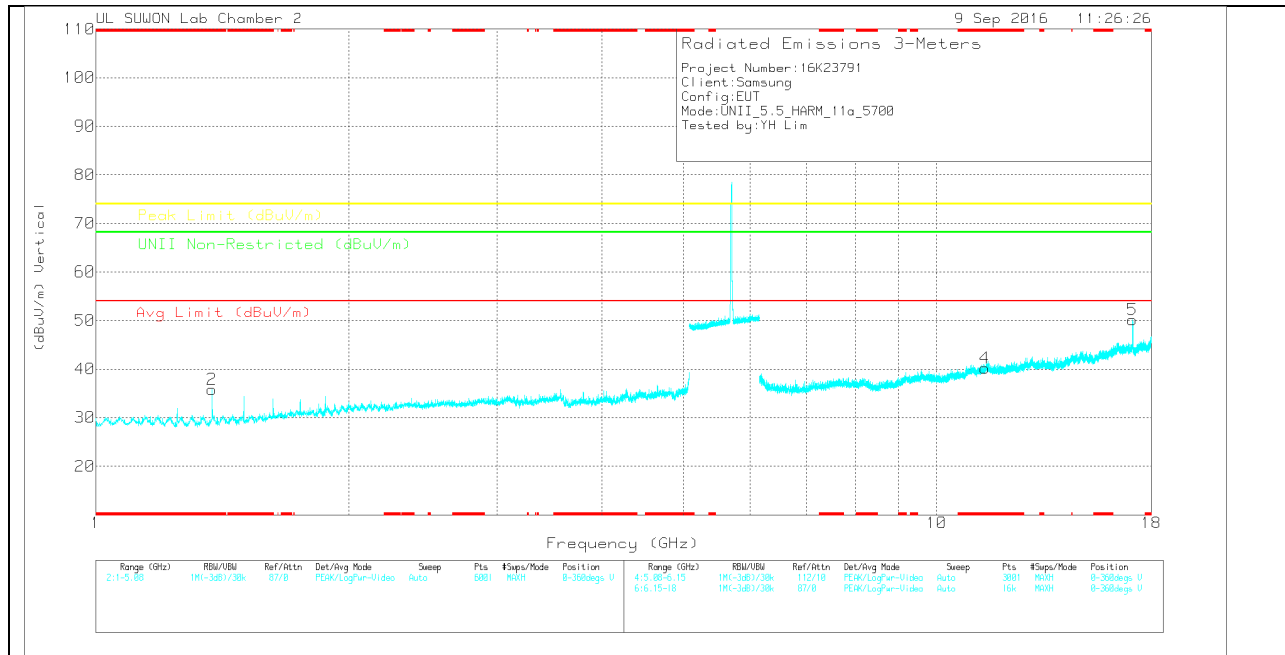
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

HIGH CHANNEL HORIZONTAL



HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_4	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.375	32.84	Pk	28.4	-27.7	33.54	-	-	74	-40.46	-	-	0-360	150	H
2	* 1.375	35.08	Pk	28.4	-27.7	35.78	-	-	74	-38.22	-	-	0-360	150	V
3	* 11.407	18.94	Pk	38.3	-17.2	40.04	-	-	74	-33.96	-	-	0-360	150	H
6	17.101	22.15	Pk	41.1	-15.3	47.95	-	-	-	-	68.2	-20.25	0-360	250	H
4	* 11.411	19.18	Pk	38.3	-17.3	40.18	-	-	74	-33.82	-	-	0-360	150	V
5	17.102	24.37	Pk	41.1	-15.3	50.17	-	-	-	-	68.2	-18.03	0-360	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk – Peak detector

Radiated Emissions

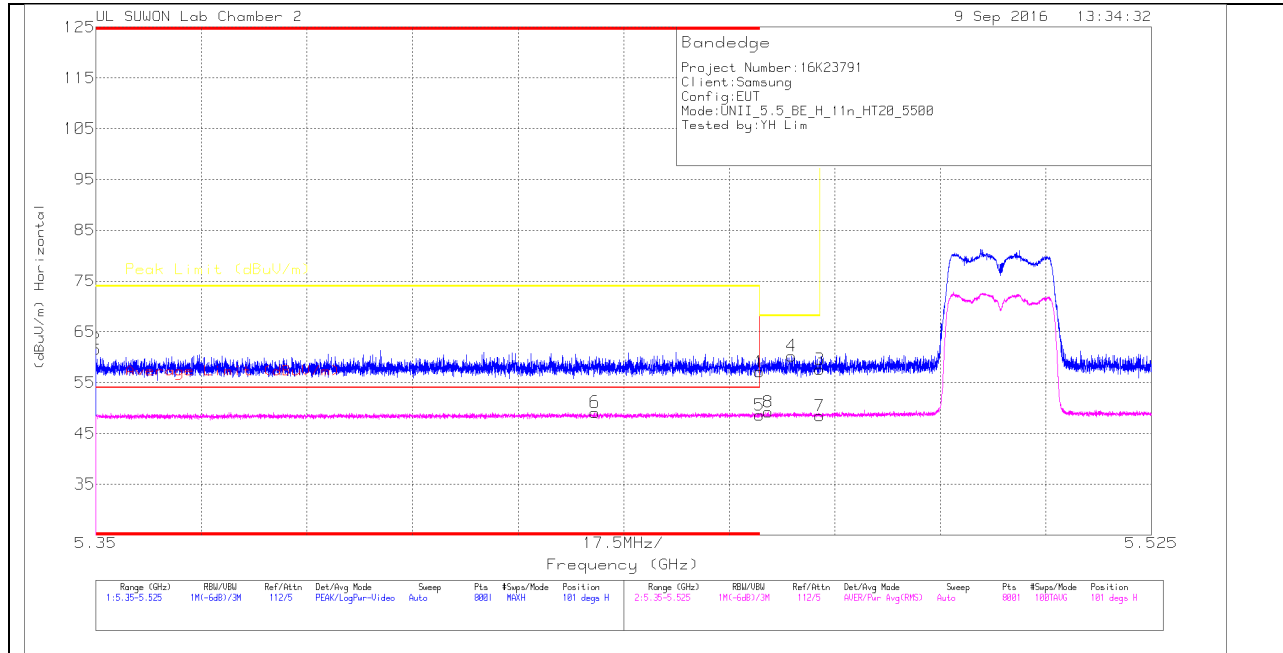
Frequency (GHz)	Meter Reading (dBuV)	Det	3117(00168724)_150619	Path_5	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
17.106	35.55	PK-U	41.1	-15.3	61.35	-	-	-	-	68.2	-6.85	91	218	H
17.106	36.34	PK-U	41.1	-15.3	62.14	-	-	-	-	68.2	-6.06	66	321	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK-U - U-NII: Maximum Peak

11.3.2. TX ABOVE 1GHz 802.11n HT20 2TX CDD MODE IN THE 5.5GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Trace Markers

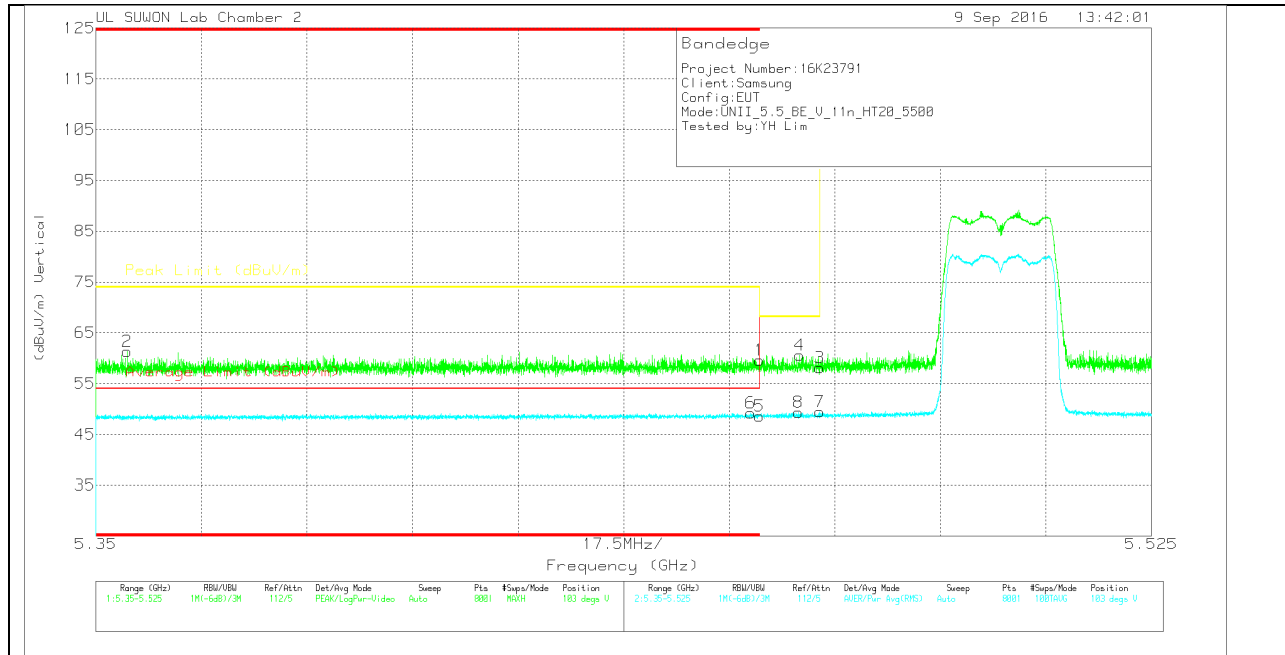
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	Path_2_10 dB	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	38.79	Pk	34.5	-16.2	57.09	-	-	74	-16.91	101	145	H
2	* 5.35	43.45	Pk	34.4	-16.3	61.55	-	-	74	-12.45	101	145	H
3	5.47	39.36	Pk	34.5	-16.2	57.66	-	-	68.2	-10.54	101	145	H
4	5.465	41.98	Pk	34.5	-16.2	60.28	-	-	68.2	-7.92	101	145	H
5	* 5.46	30.27	RMS	34.5	-16.2	48.57	54	-5.43	-	-	101	145	H
6	* 5.433	30.95	RMS	34.5	-16.3	49.15	54	-4.85	-	-	101	145	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

RMS - RMS detection

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8724)_150 619	Path_2_10 dB	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.28	Pk	34.5	-16.2	59.58	-	-	74	-14.42	103	140	V
2	* 5.355	43.23	Pk	34.4	-16.3	61.33	-	-	74	-12.67	103	140	V
3	5.47	39.79	Pk	34.5	-16.2	58.09	-	-	68.2	-10.11	103	140	V
4	5.467	42.34	Pk	34.5	-16.2	60.64	-	-	68.2	-7.56	103	140	V
5	* 5.46	30.33	RMS	34.5	-16.2	48.63	54	-5.37	-	-	103	140	V
6	* 5.459	30.97	RMS	34.5	-16.2	49.27	54	-4.73	-	-	103	140	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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