



Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 169 of 320

APPENDIX A - GRAPHICAL IMAGES

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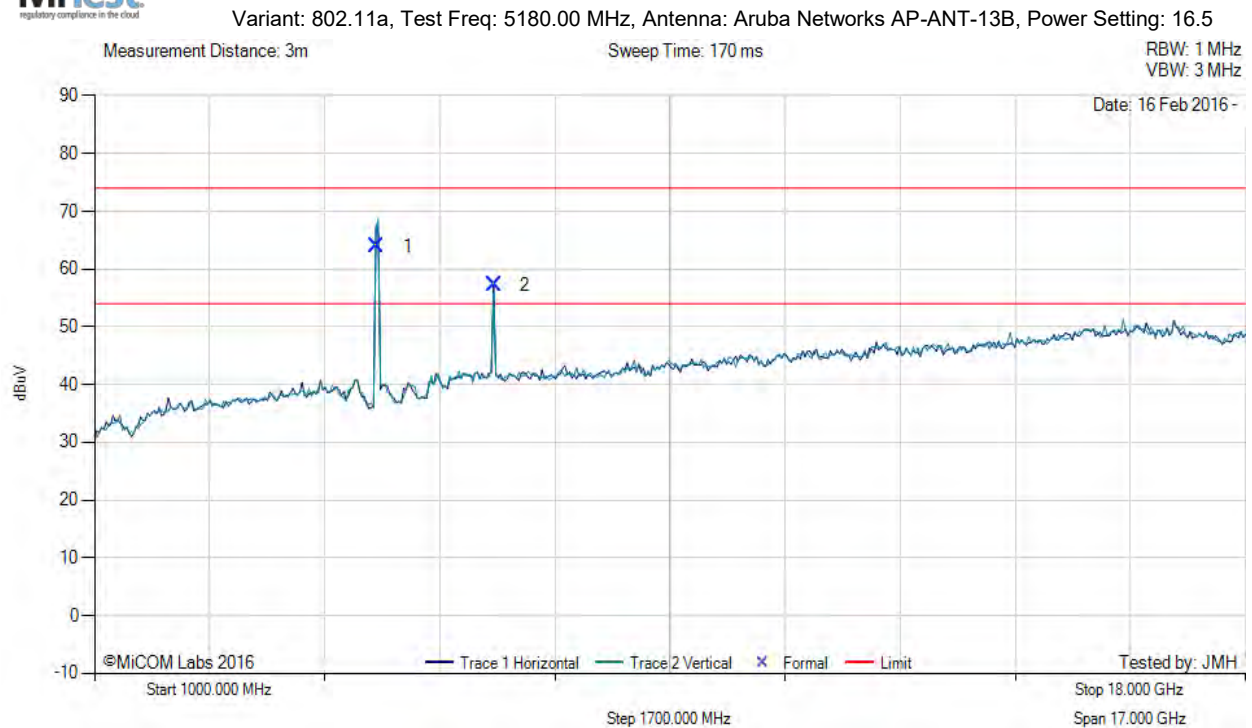
A.1. Radiated

A.1.1. Restricted Band Emissions

A.1.1.1. AP-ANT-13B



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



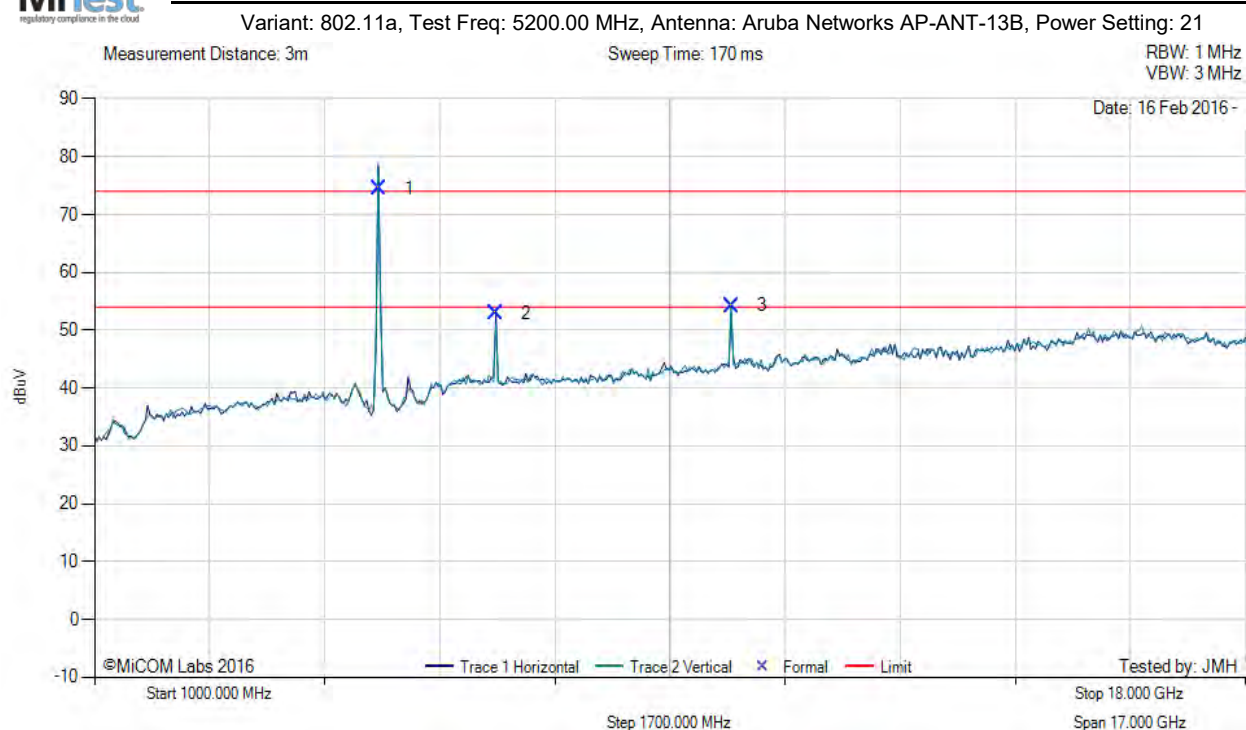
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5174.51	71.74	3.70	-11.52	63.92	Fundamental	Vertical	101	0	--	--	
2	6906.66	60.72	4.11	-7.54	57.29	Peak (NRB)	Horizontal	101	52	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



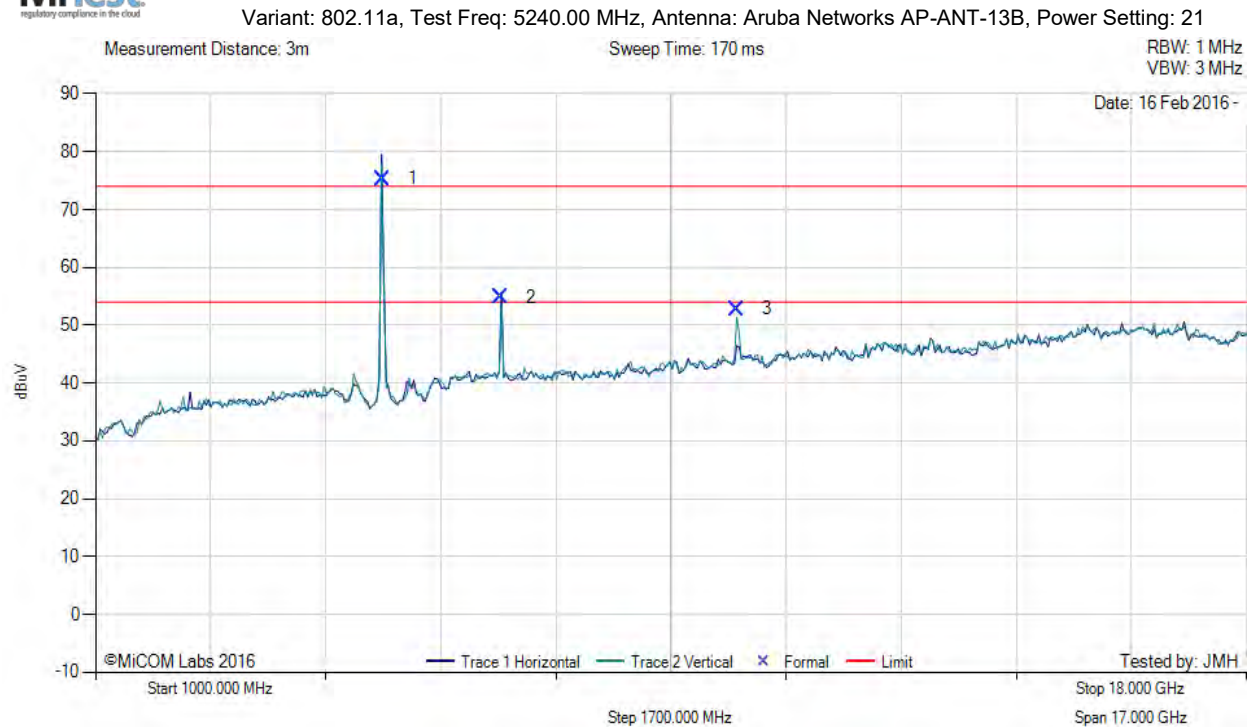
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5200.76	82.26	3.66	-11.46	74.46	Fundamental	Horizontal	151	0	--	--	
2	6933.35	56.37	4.11	-7.49	52.99	Peak (NRB)	Horizontal	151	0	--	--	Pass
3	10409.26	53.72	5.48	-4.97	54.23	Peak (NRB)	Vertical	151	0	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5238.68	83.10	3.63	-11.37	75.36	Fundamental	Horizontal	151	1	--	--	
2	6986.73	58.22	4.13	-7.45	54.90	Peak (NRB)	Horizontal	151	26	--	--	Pass
3	10473.38	51.85	5.47	-4.51	52.81	Peak (NRB)	Vertical	151	26	--	--	Pass

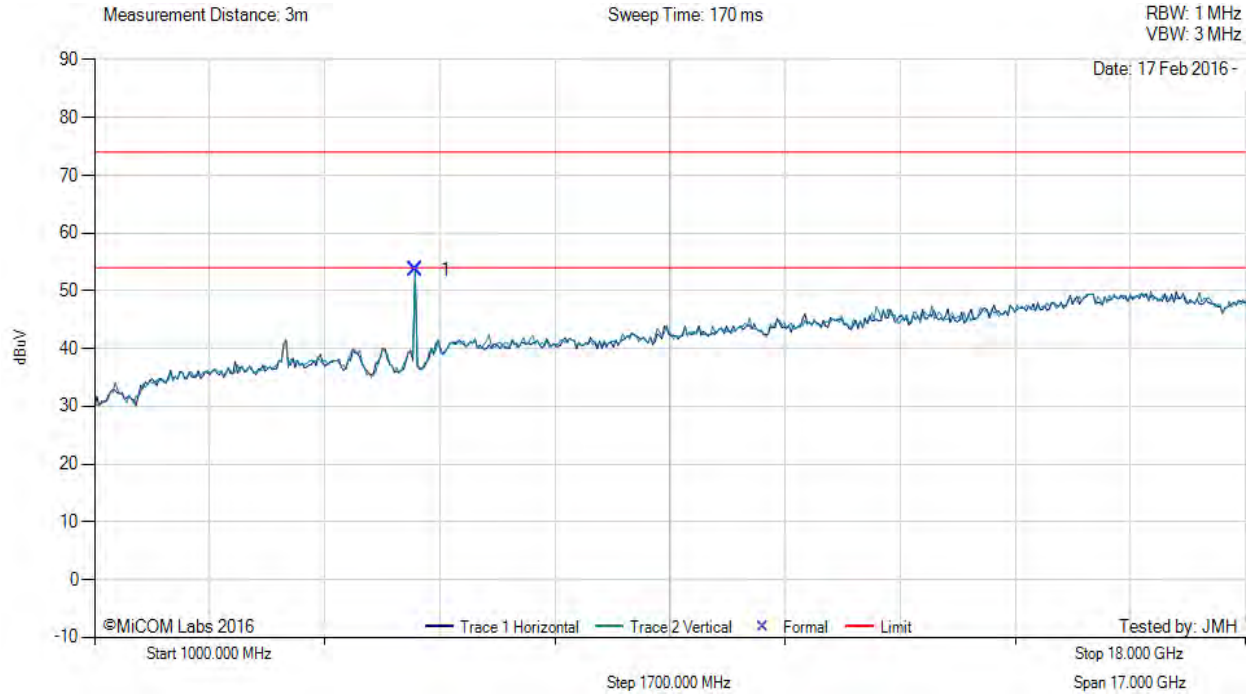
Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5745.00 MHz, Antenna: Aruba Networks AP-ANT-13B, Power Setting: 19



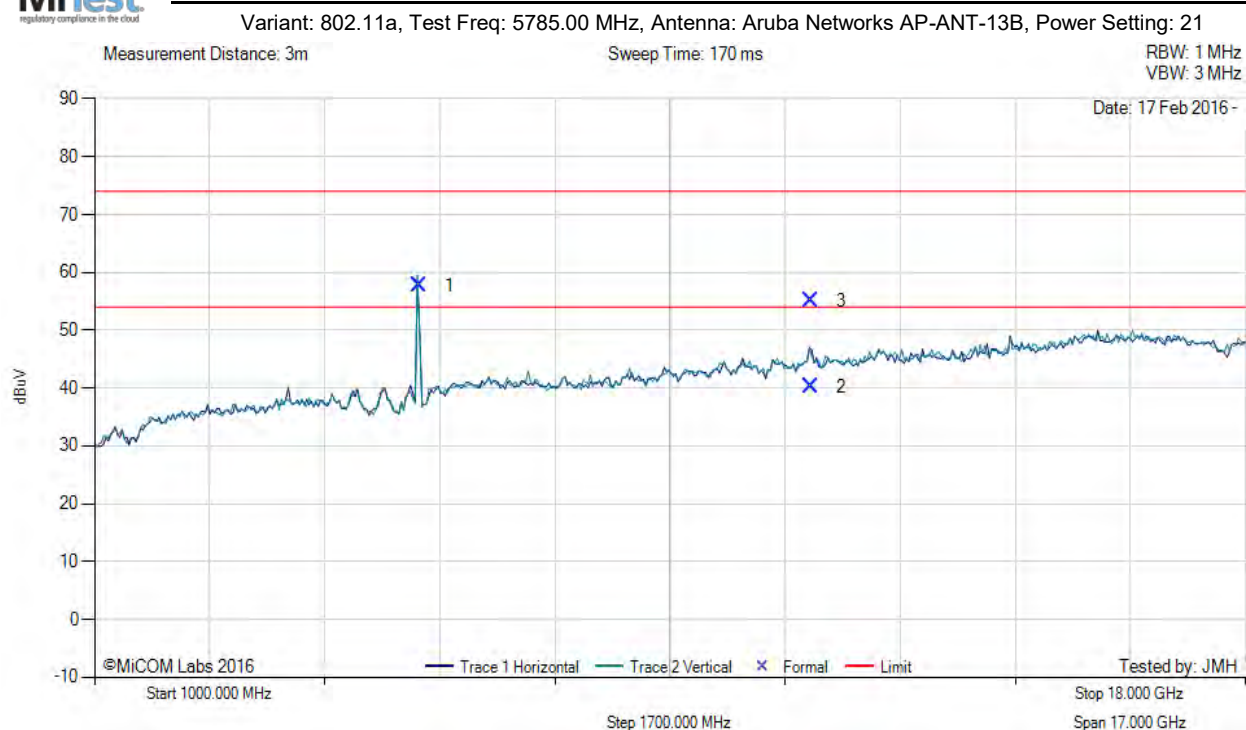
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5739.04	60.47	3.82	-10.67	53.62	Fundamental	Horizontal	101	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



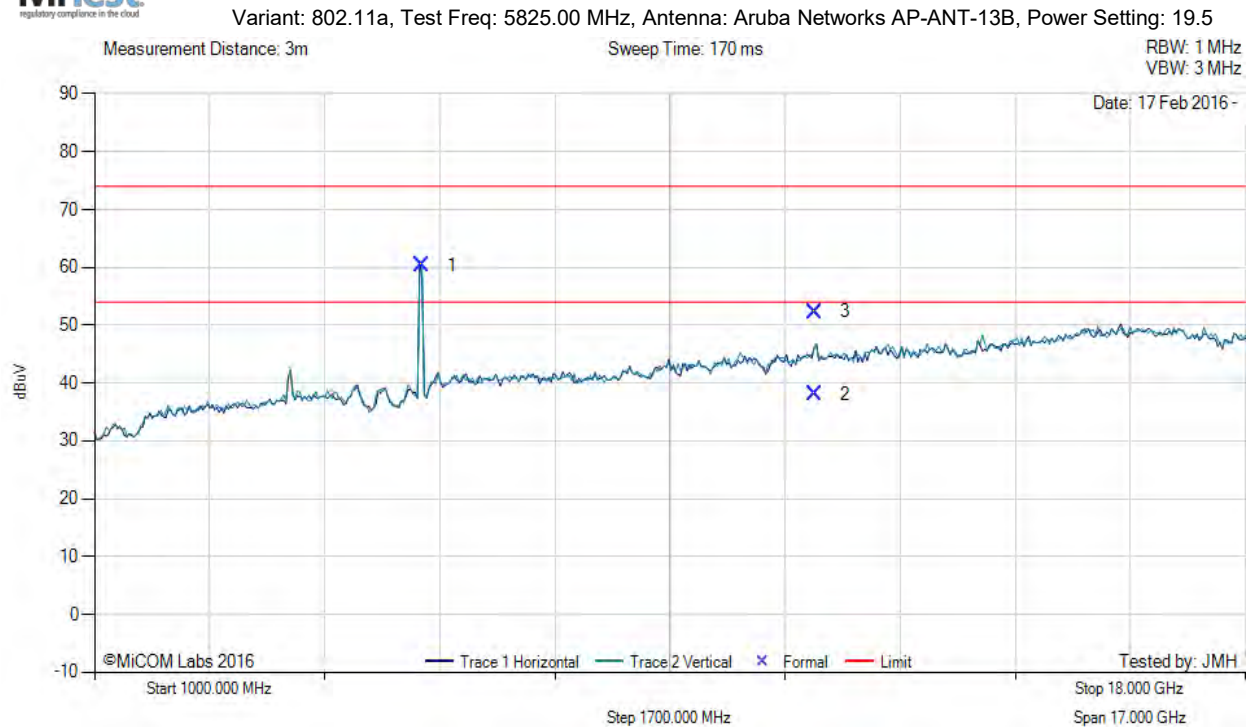
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5790.78	64.37	3.79	-10.41	57.75	Fundamental	Vertical	101	0	--	--	
2	11577.21	39.39	5.42	-4.62	40.19	Max Avg	Horizontal	129	331	54.0	-13.8	Pass
3	11577.21	54.33	5.42	-4.62	55.13	Max Peak	Horizontal	129	331	74.0	-18.9	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5829.34	66.67	3.84	-10.23	60.28	Fundamental	Horizontal	100	1	--	--	
2	11642.94	37.12	5.47	-4.47	38.12	Max Avg	Horizontal	145	329	54.0	-15.9	Pass
3	11642.94	51.29	5.47	-4.47	52.29	Max Peak	Horizontal	145	329	74.0	-21.7	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

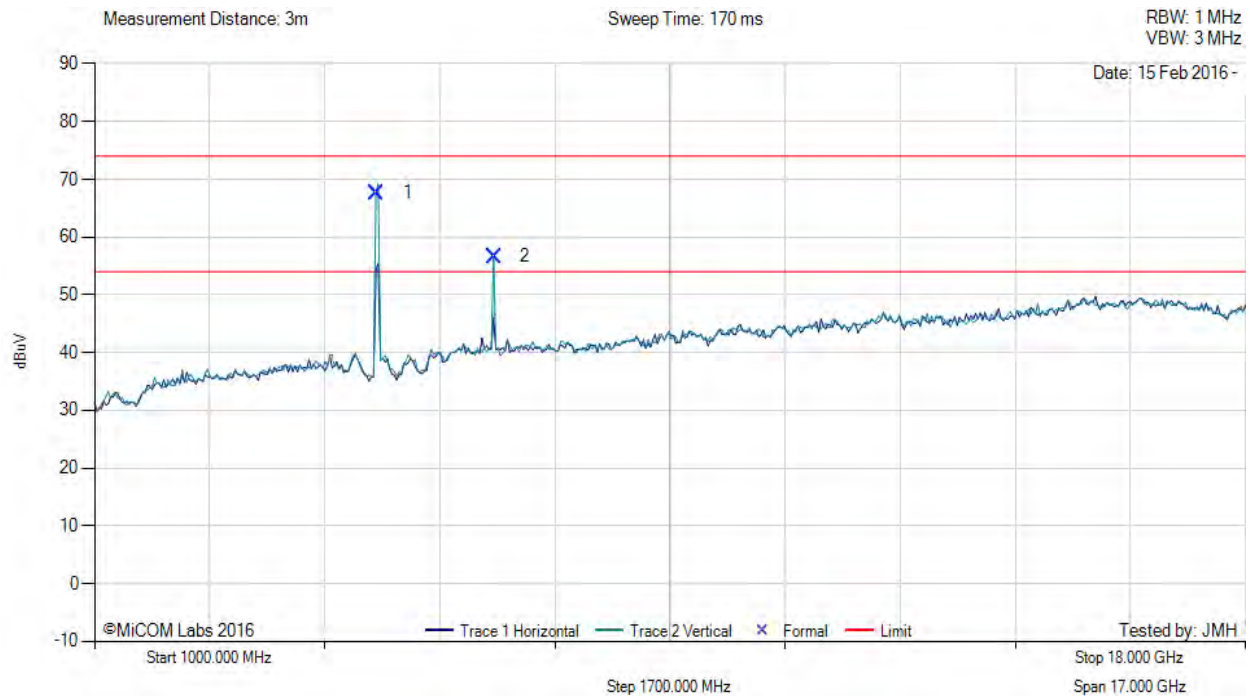
[back to matrix](#)

A.1.1.2. AP-ANT-19



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 17



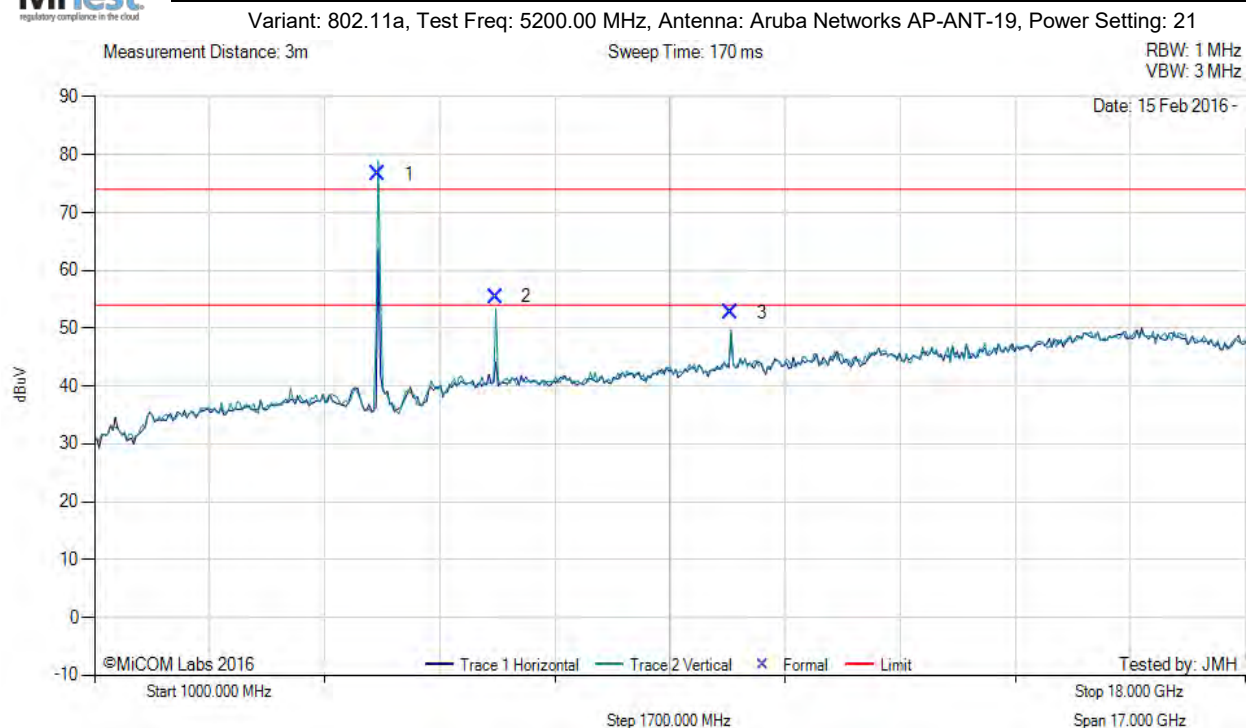
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5172.46	75.46	3.70	-11.53	67.63	Fundamental	Vertical	151	1	--	--	
2	6906.59	60.08	4.11	-7.54	56.65	Peak (NRB)	Vertical	151	1	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



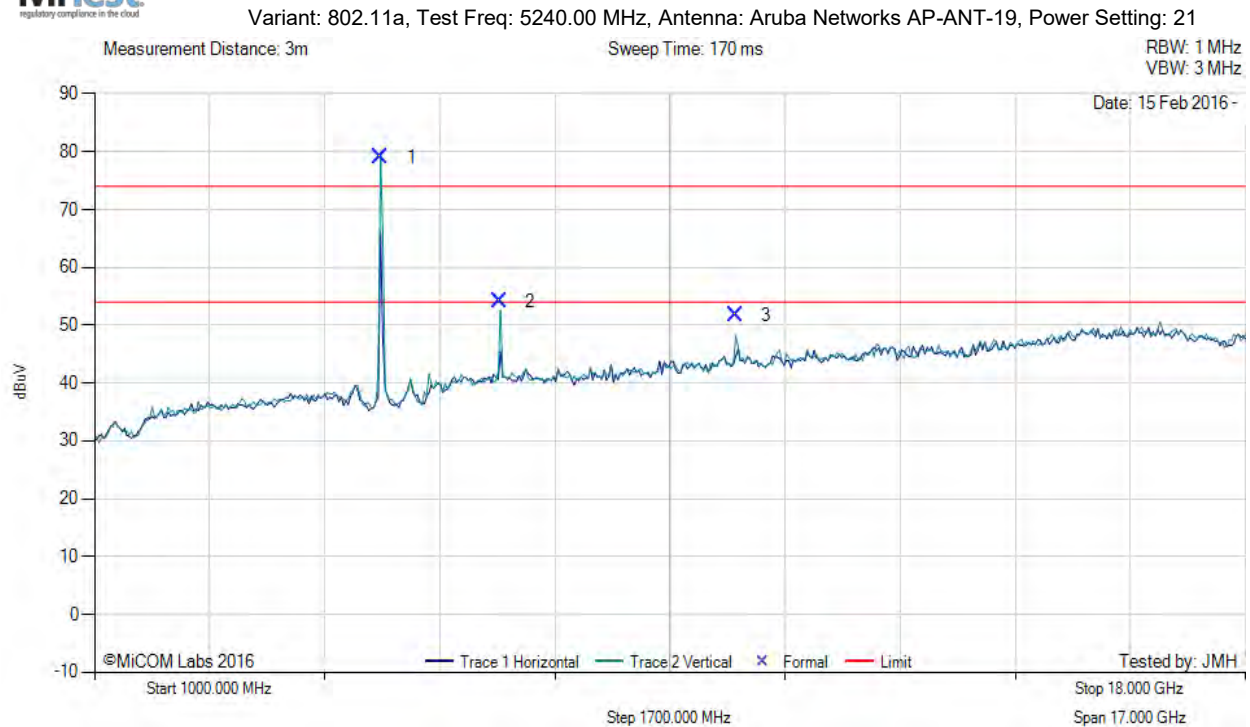
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5192.42	84.50	3.67	-11.47	76.70	Fundamental	Vertical	151	1	--	--	
2	6933.35	58.79	4.11	-7.49	55.41	Peak (NRB)	Vertical	151	1	--	--	Pass
3	10401.10	52.34	5.41	-5.03	52.72	Peak (NRB)	Vertical	151	1	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



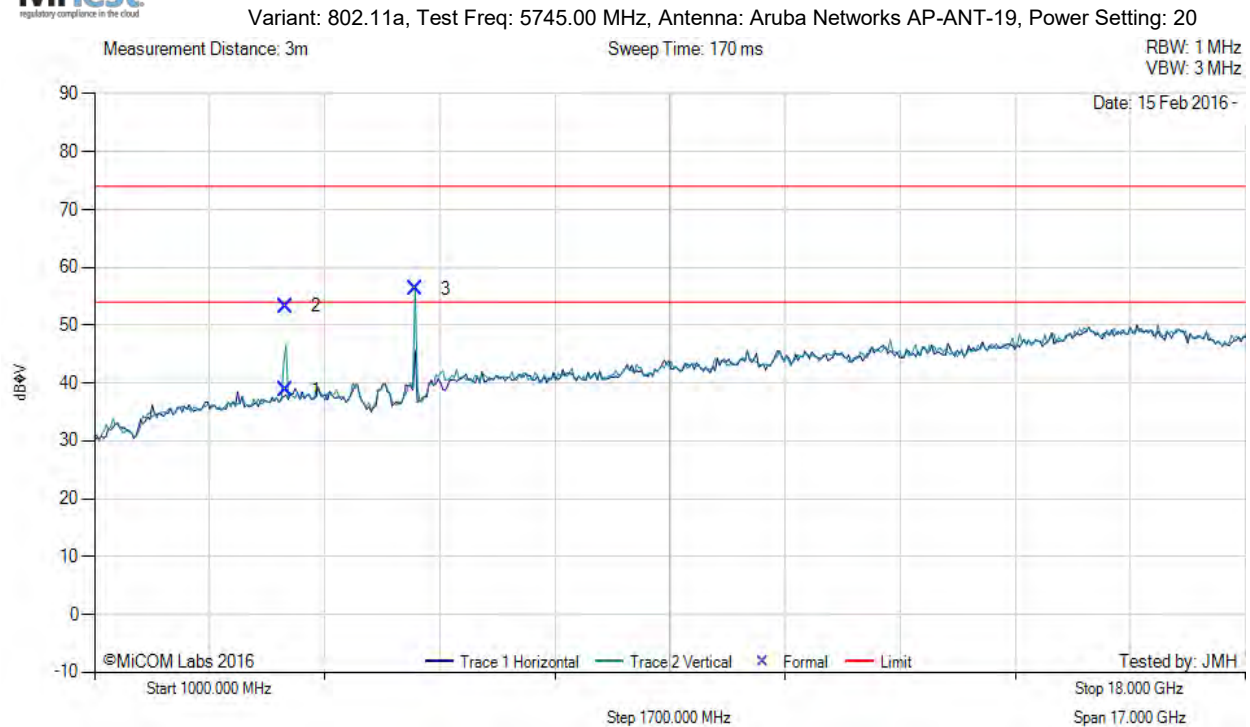
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5232.11	86.84	3.63	-11.39	79.08	Fundamental	Vertical	151	1	--	--	
2	6986.60	57.37	4.13	-7.45	54.05	Peak (NRB)	Vertical	151	1	--	--	Pass
3	10474.95	50.78	5.46	-4.49	51.75	Peak (NRB)	Vertical	151	21	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



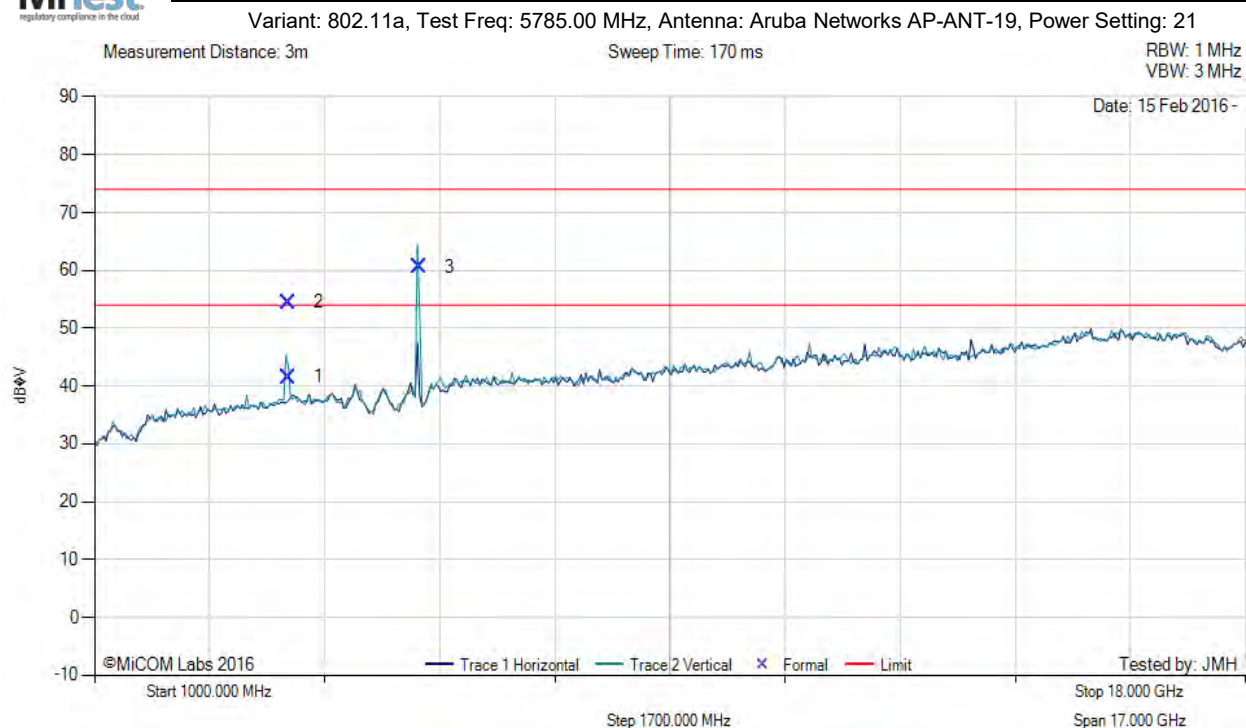
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	3826.35	46.43	3.21	-10.84	38.80	Max Avg	Vertical	152	138	54.0	-15.2	Pass
2	3826.35	60.94	3.21	-10.84	53.31	Max Peak	Vertical	152	138	74.0	-20.7	Pass
3	5737.91	63.12	3.82	-10.67	56.27	Fundamental	Vertical	151	1	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



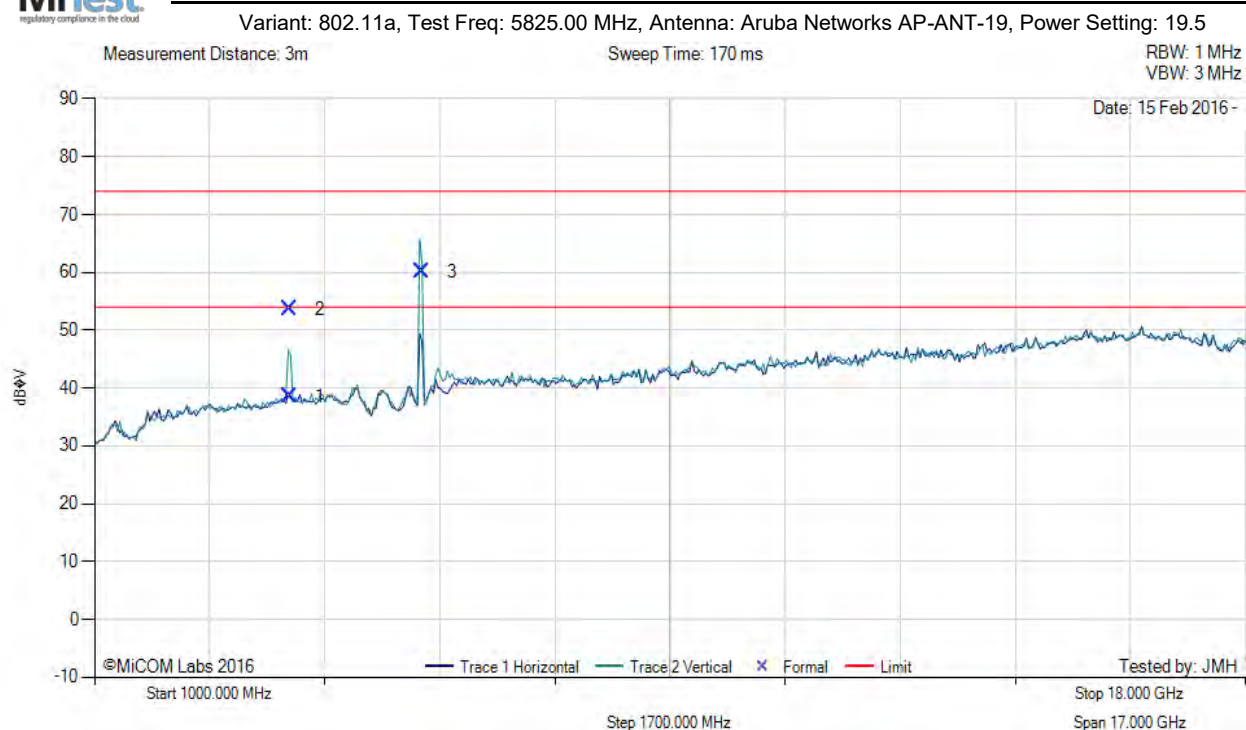
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	3856.64	49.14	3.23	-10.81	41.56	Max Avg	Vertical	143	298	54.0	-12.4	Pass
2	3856.64	62.03	3.23	-10.81	54.45	Max Peak	Vertical	143	298	74.0	-19.6	Pass
3	5791.90	67.18	3.78	-10.40	60.56	Fundamental	Vertical	101	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	3879.95	46.08	3.26	-10.76	38.58	Max Avg	Vertical	153	300	54.0	-15.4	Pass
2	3879.95	61.19	3.26	-10.76	53.69	Max Peak	Vertical	153	300	74.0	-20.3	Pass
3	5831.59	66.45	3.84	-10.22	60.07	Fundamental	Vertical	151	0	--	--	

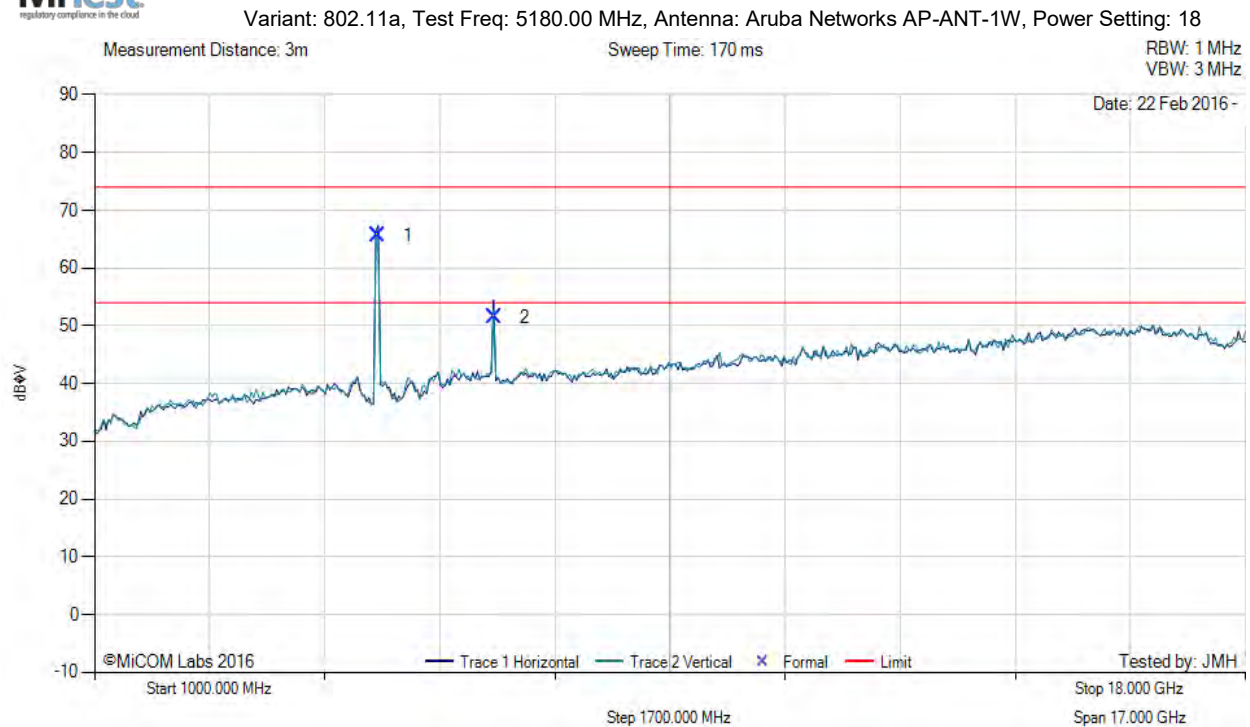
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

A.1.1.3. AP-ANT-1W



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



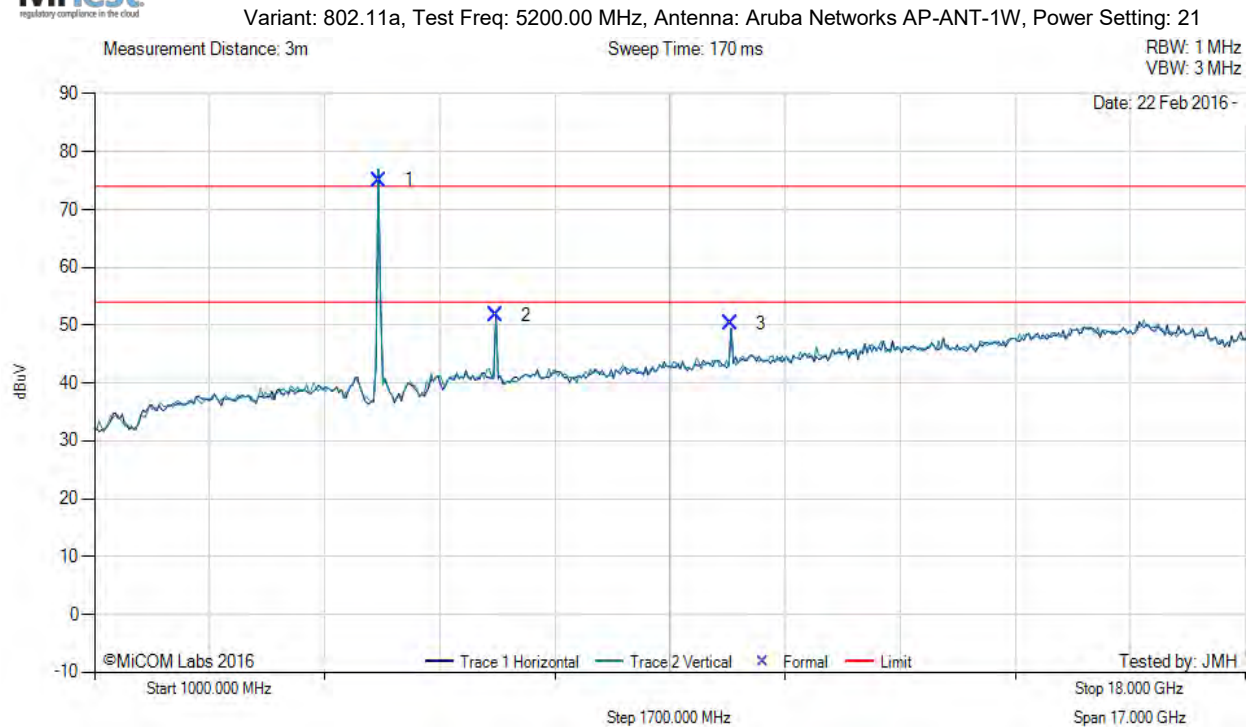
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5186.65	73.39	3.68	-11.49	65.58	Fundamental	Horizontal	151	1	--	--	
2	6906.63	54.89	4.11	-7.54	51.46	Peak (NRB)	Horizontal	151	1	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5206.45	82.86	3.65	-11.45	75.06	Fundamental	Horizontal	151	1	--	--	
2	6933.36	55.10	4.11	-7.49	51.72	Peak (NRB)	Horizontal	151	1	--	--	Pass
3	10395.32	50.04	5.36	-5.06	50.34	Peak (NRB)	Horizontal	151	1	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5240.00 MHz, Antenna: Aruba Networks AP-ANT-1W, Power Setting: 21

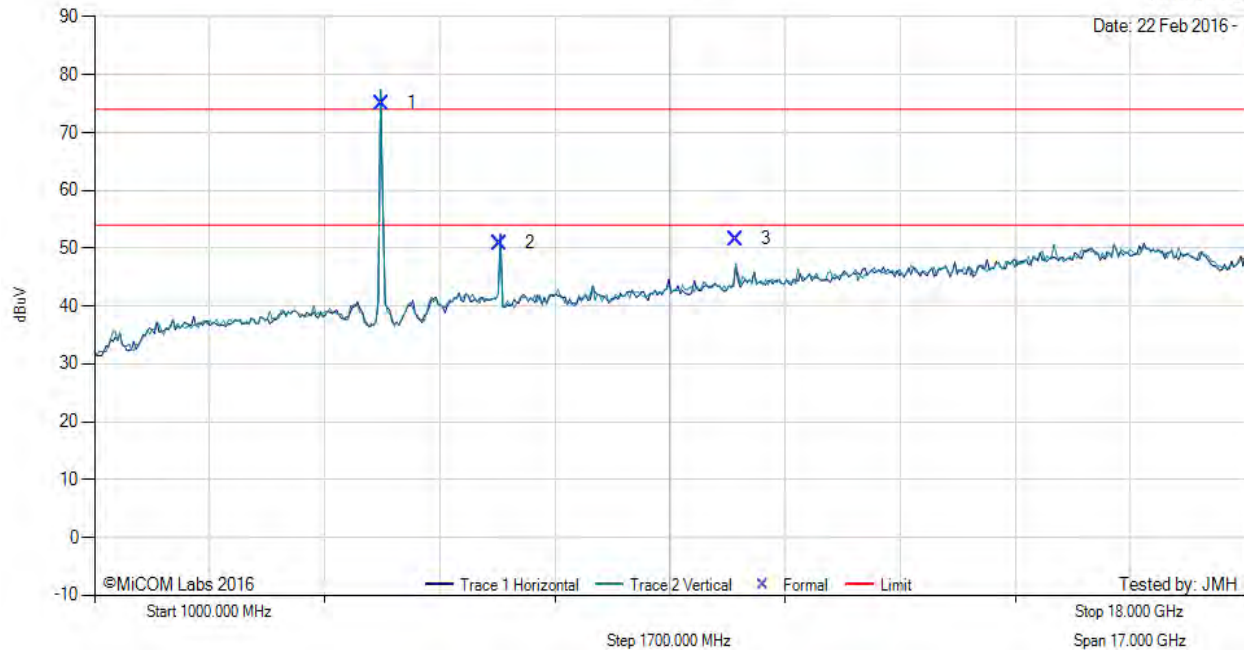
Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz

VBW: 3 MHz

Date: 22 Feb 2016 -



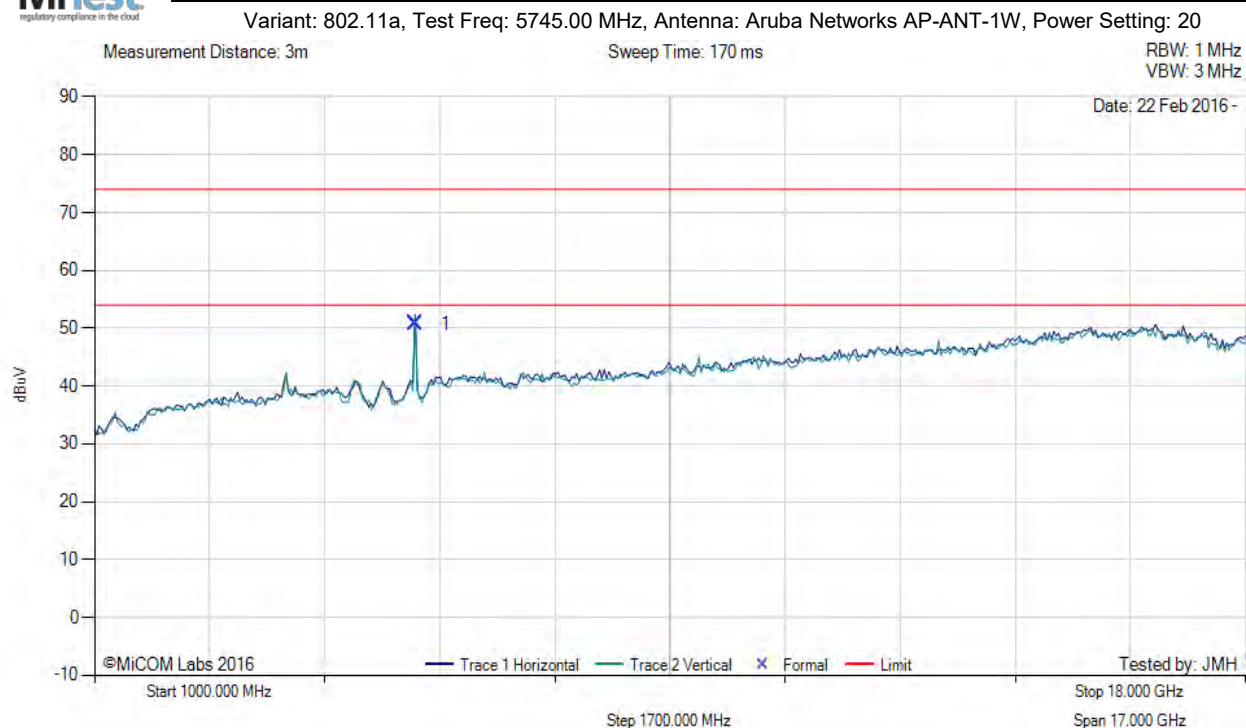
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5234.51	82.82	3.63	-11.37	75.08	Fundamental	Horizontal	101	0	--	--	
2	6986.67	54.20	4.13	-7.45	50.88	Peak (NRB)	Horizontal	151	0	--	--	Pass
3	10476.45	50.67	5.45	-4.49	51.63	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



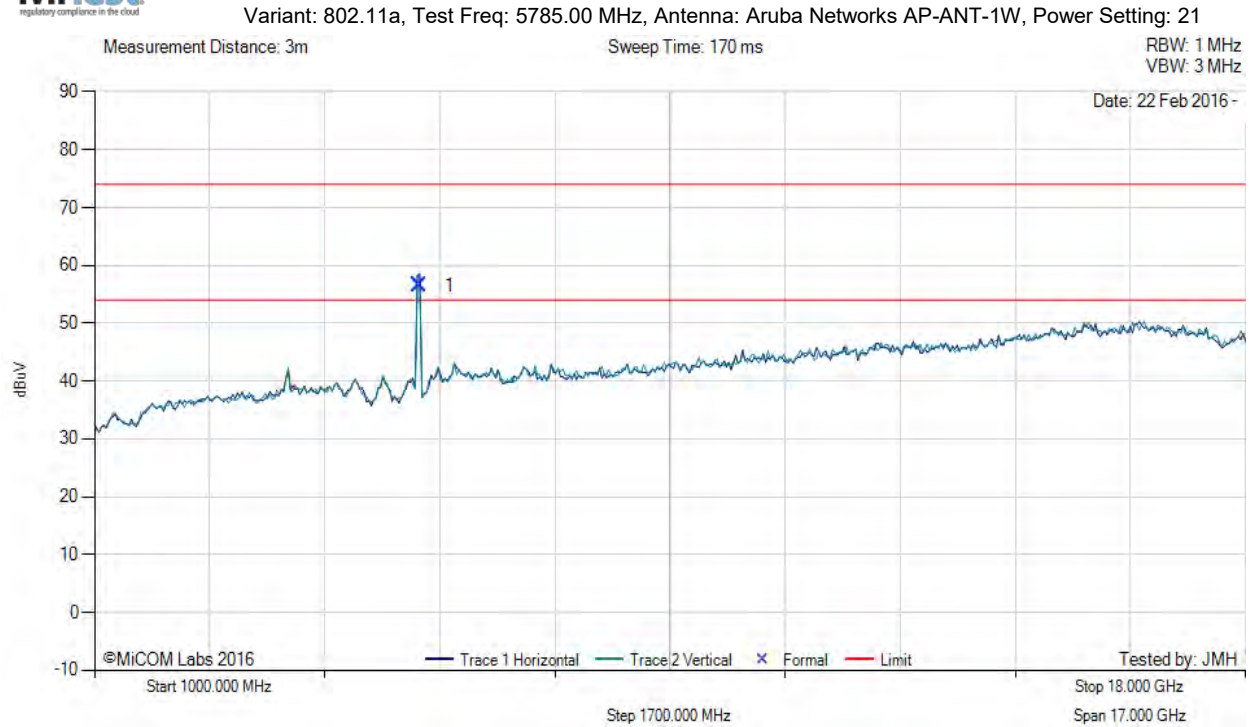
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5737.51	57.64	3.82	-10.67	50.79	Fundamental	Horizontal	100	141	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5791.42	63.14	3.79	-10.41	56.52	Fundamental	Horizontal	101	13	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

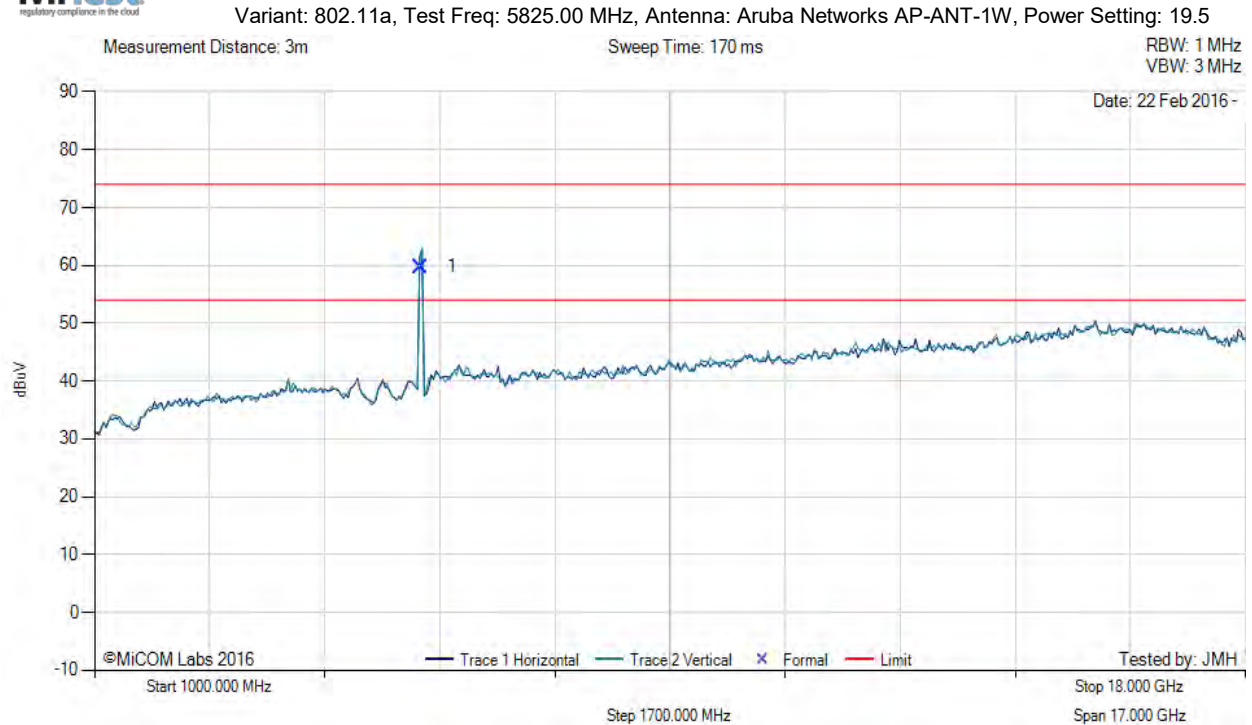
[back to matrix](#)



Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 187 of 320



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5826.06	66.11	3.84	-10.24	59.71	Fundamental	Horizontal	101	16	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

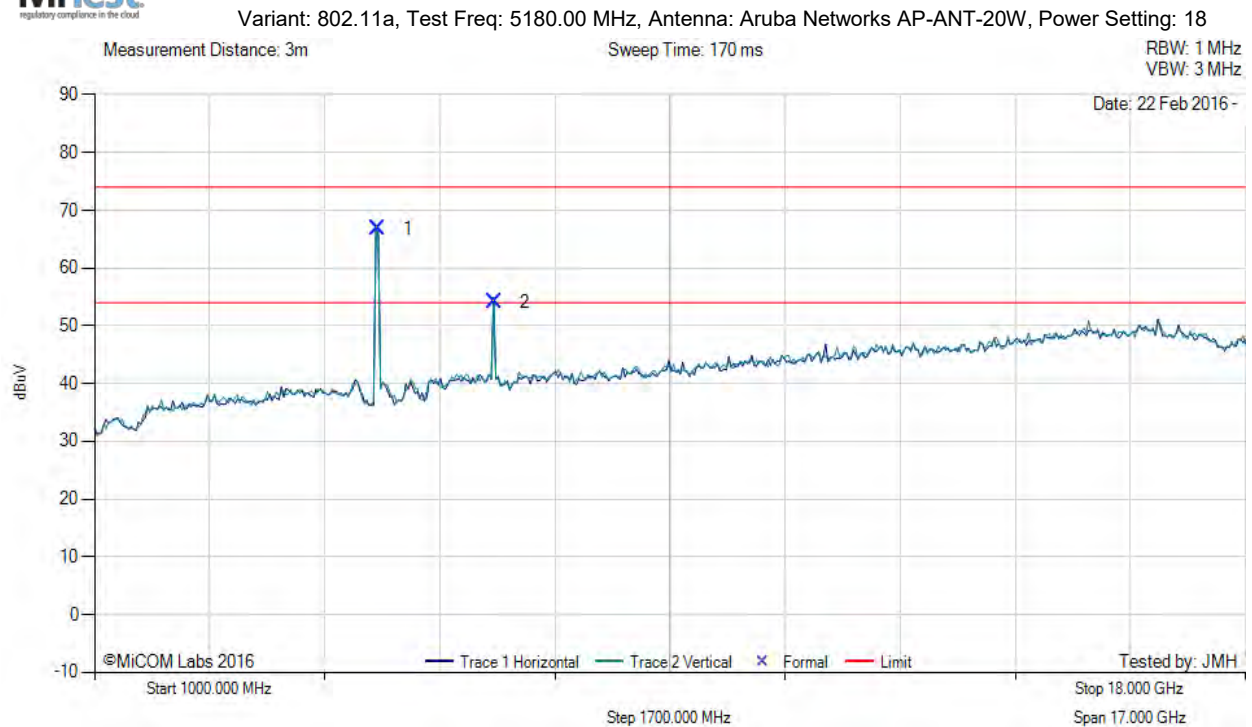
[back to matrix](#)

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A.1.1.4. AP-ANT-20W



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5187.65	74.59	3.68	-11.49	66.78	Fundamental	Horizontal	101	1	--	--	
2	6906.74	57.61	4.11	-7.54	54.18	Peak (NRB)	Horizontal	101	1	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5200.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 21

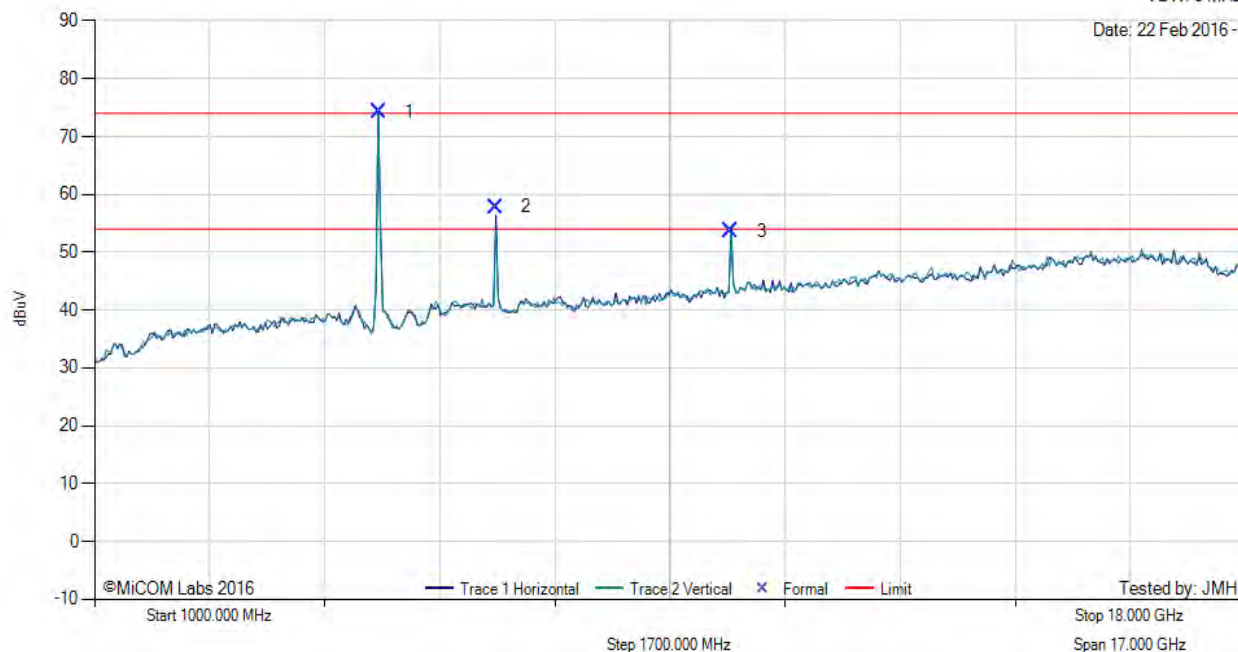
Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz

VBW: 3 MHz

Date: 22 Feb 2016 -



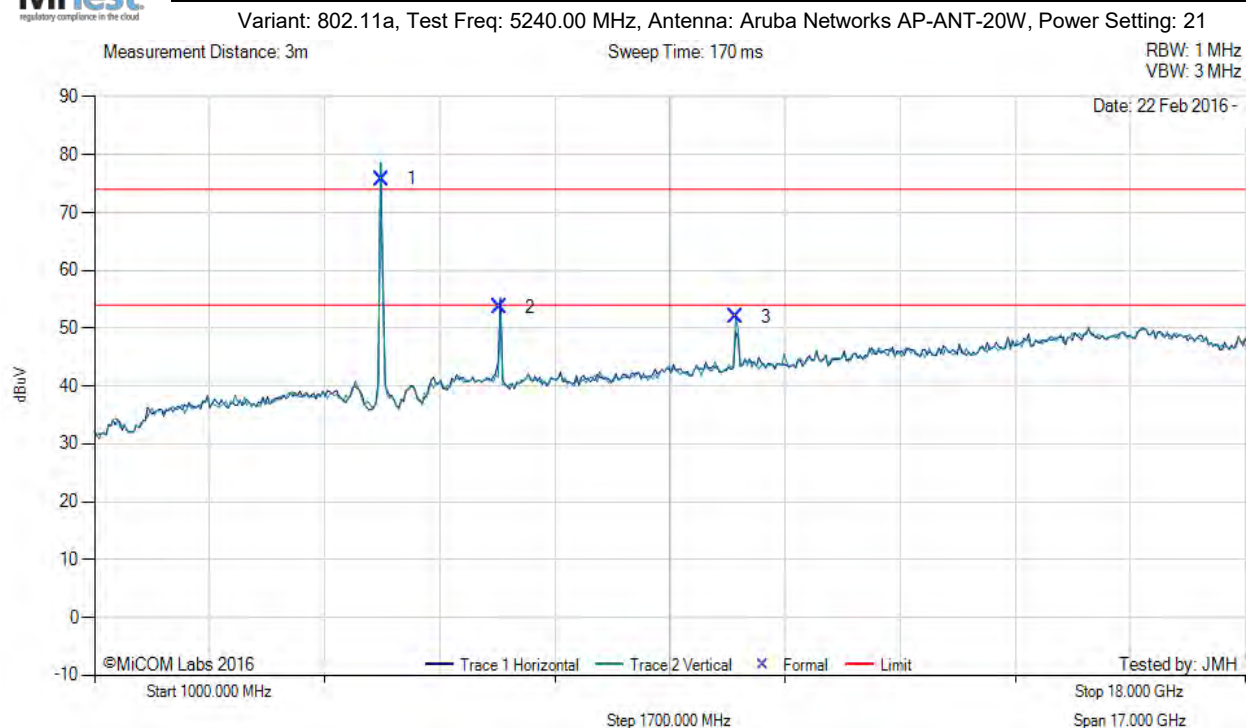
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5205.09	82.00	3.65	-11.45	74.20	Fundamental	Horizontal	151	1	--	--	
2	6933.35	61.20	4.11	-7.49	57.82	Peak (NRB)	Horizontal	151	1	--	--	Pass
3	10401.81	53.26	5.42	-5.02	53.66	Peak (NRB)	Horizontal	151	1	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5237.48	83.53	3.63	-11.37	75.79	Fundamental	Horizontal	151	20	--	--	
2	6986.49	56.99	4.13	-7.45	53.67	Peak (NRB)	Horizontal	151	31	--	--	Pass
3	10471.54	51.02	5.48	-4.52	51.98	Peak (NRB)	Vertical	151	53	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5745.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 20

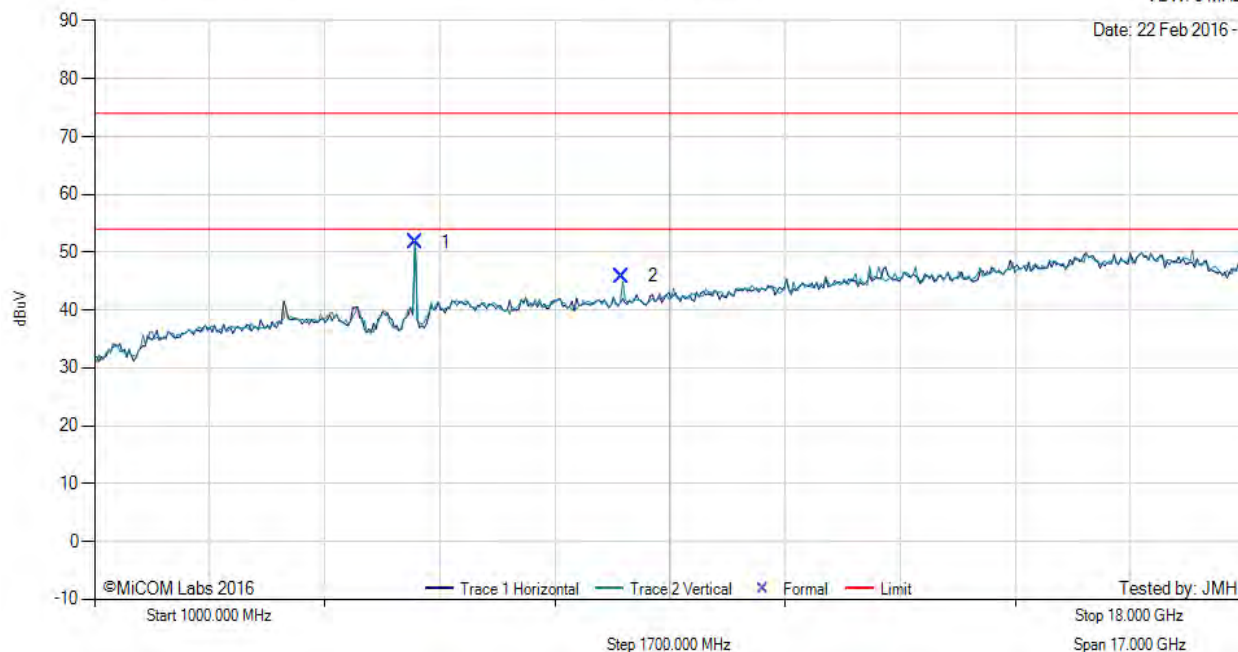
Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz

VBW: 3 MHz

Date: 22 Feb 2016 -



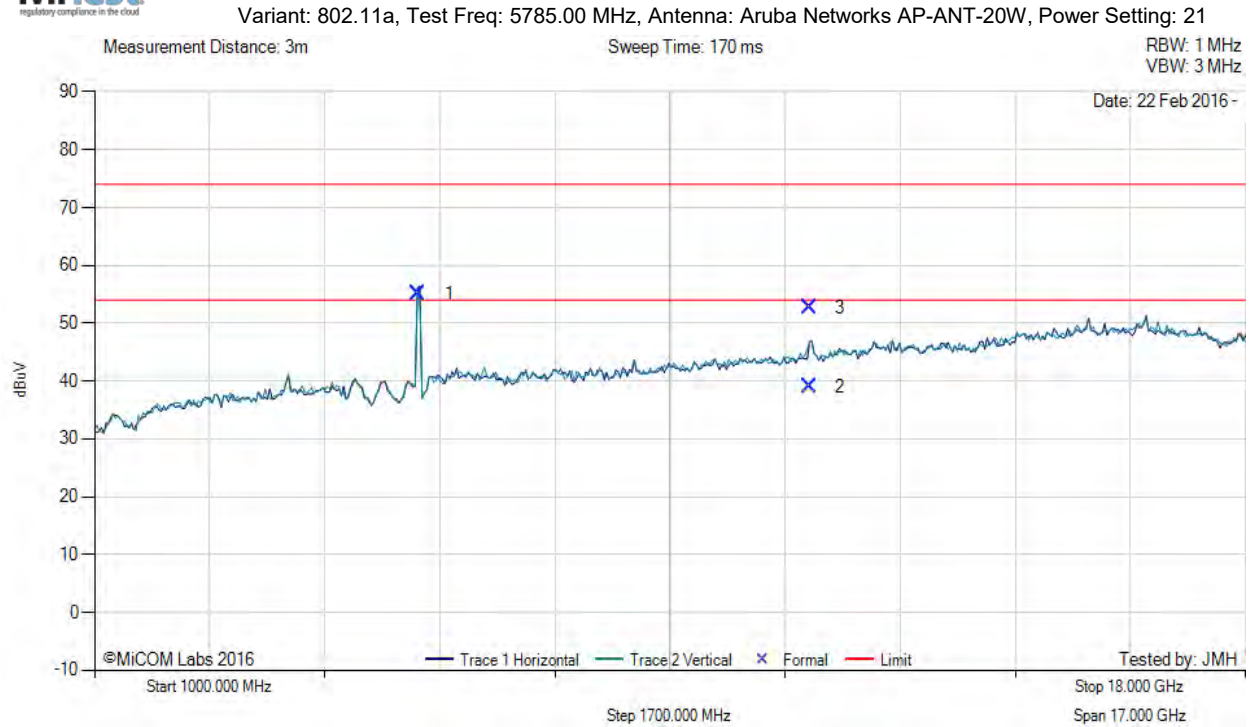
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5741.76	58.50	3.83	-10.66	51.67	Fundamental	Horizontal	101	26	--	--	
2	8795.03	48.15	4.90	-7.20	45.85	Peak (NRB)	Vertical	156	0	--	--	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



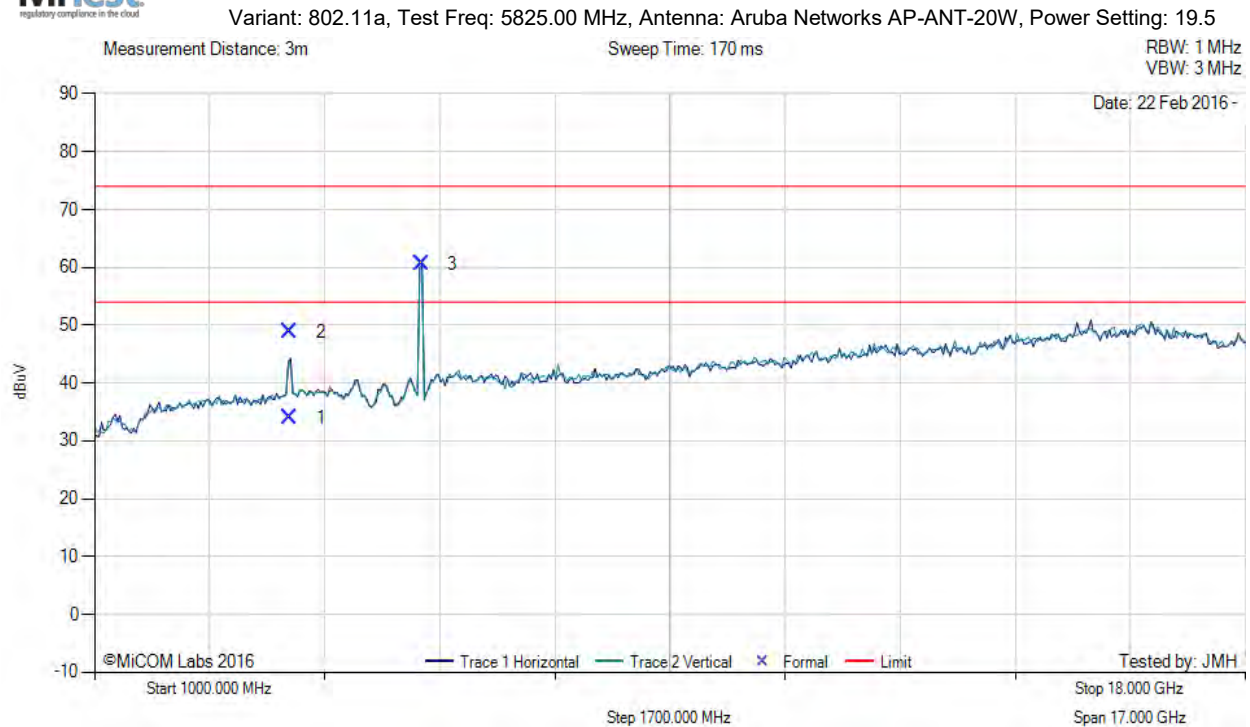
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5786.37	61.76	3.79	-10.44	55.11	Fundamental	Horizontal	151	34	--	--	
2	11568.05	38.14	5.50	-4.65	38.99	Max Avg	Vertical	191	348	54.0	-15.0	Pass
3	11568.05	51.78	5.50	-4.65	52.63	Max Peak	Vertical	191	348	74.0	-21.4	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3890.93	41.45	3.25	-10.74	33.96	Max Avg	Horizontal	152	314	54.0	-20.0	Pass
2	3890.93	56.38	3.25	-10.74	48.89	Max Peak	Horizontal	152	314	74.0	-25.1	Pass
3	5827.22	67.02	3.84	-10.24	60.62	Fundamental	Horizontal	151	24	--	--	

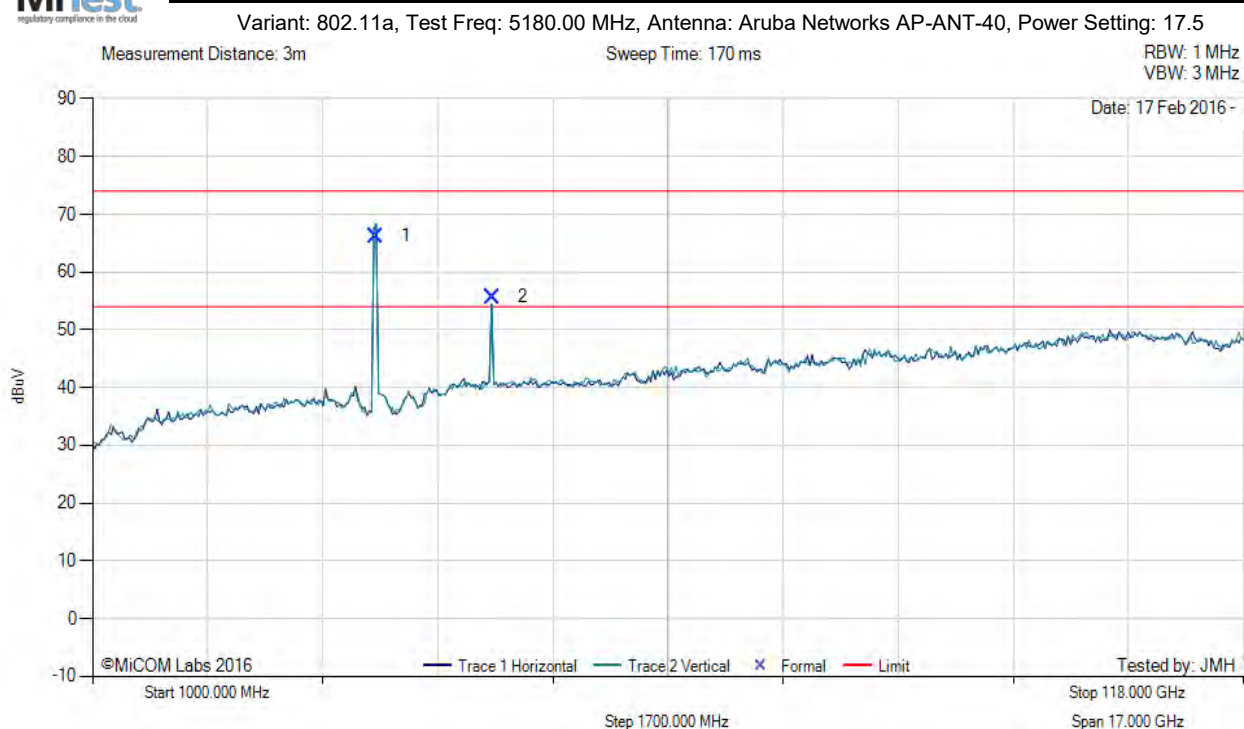
Test Notes: EUT on 150cm table, powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

A.1.1.5. AP-ANT-40



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



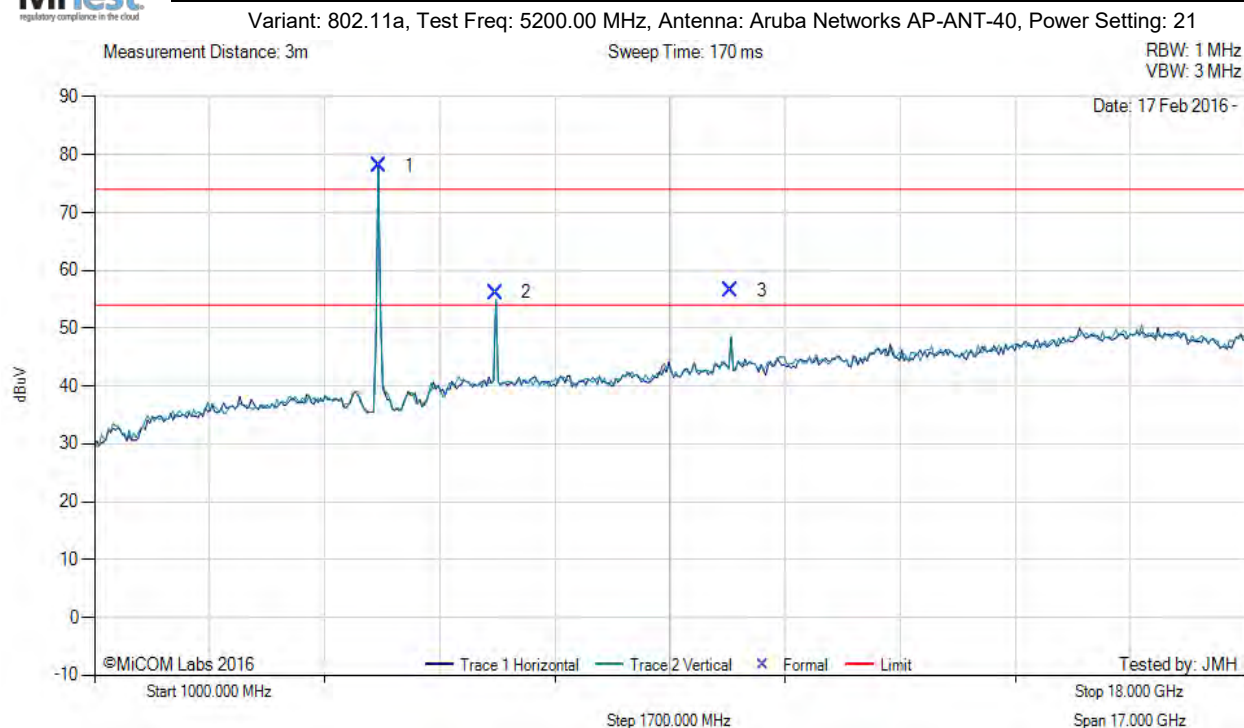
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5178.48	74.08	3.69	-11.51	66.26	Fundamental	Horizontal	101	44	--	--	
2	6906.67	59.13	4.11	-7.54	55.70	Peak (NRB)	Horizontal	101	44	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



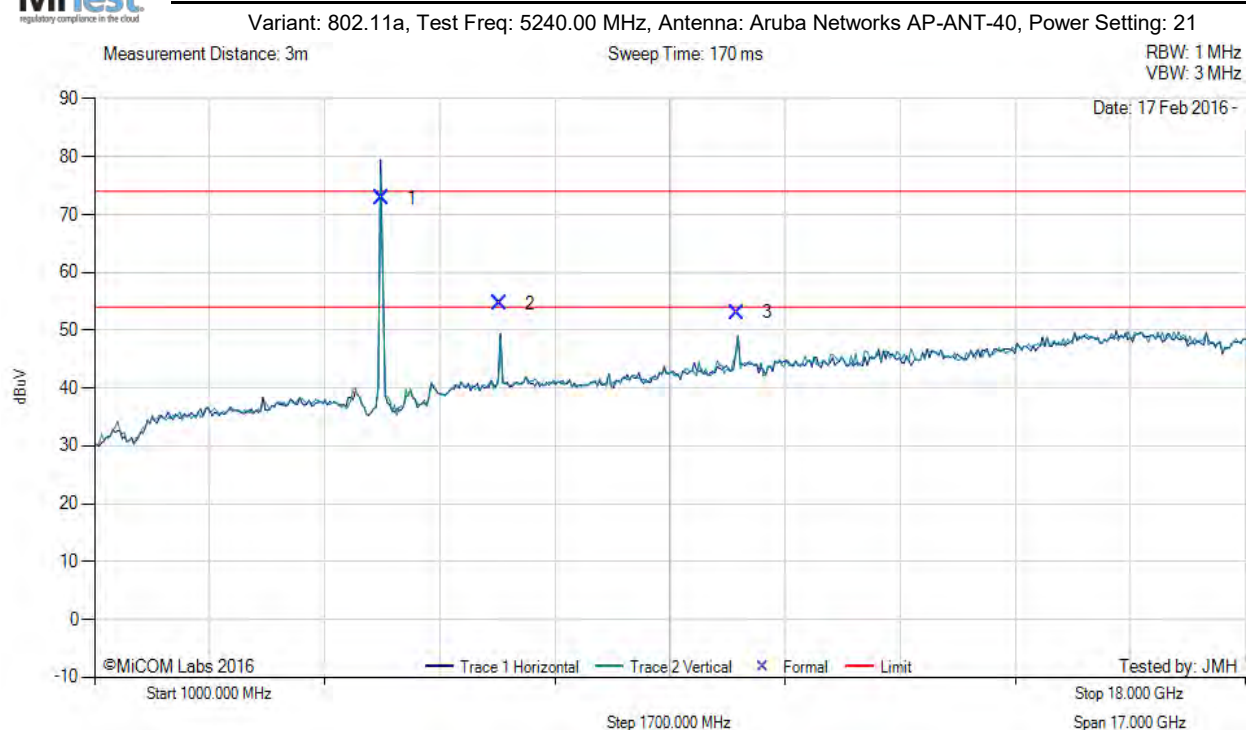
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5198.12	85.93	3.66	-11.47	78.12	Fundamental	Horizontal	198	24	--	--	
2	6933.24	59.52	4.11	-7.49	56.14	Peak (NRB)	Horizontal	198	24	--	--	Pass
3	10402.13	56.04	5.42	-5.02	56.44	Peak (NRB)	Horizontal	198	52	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



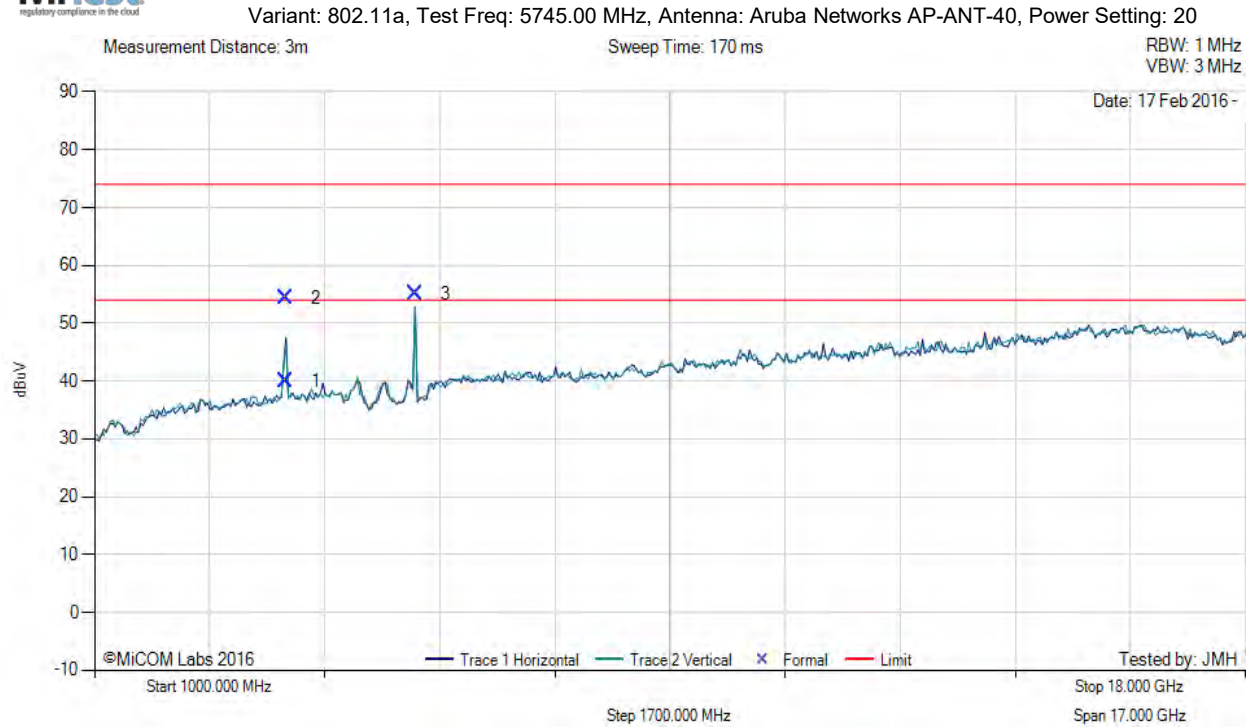
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5232.75	80.61	3.63	-11.39	72.85	Fundamental	Horizontal	151	0	--	--	
2	6986.55	57.95	4.13	-7.45	54.63	Peak (NRB)	Horizontal	151	56	--	--	Pass
3	10491.10	52.01	5.45	-4.38	53.08	Peak (NRB)	Horizontal	151	56	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



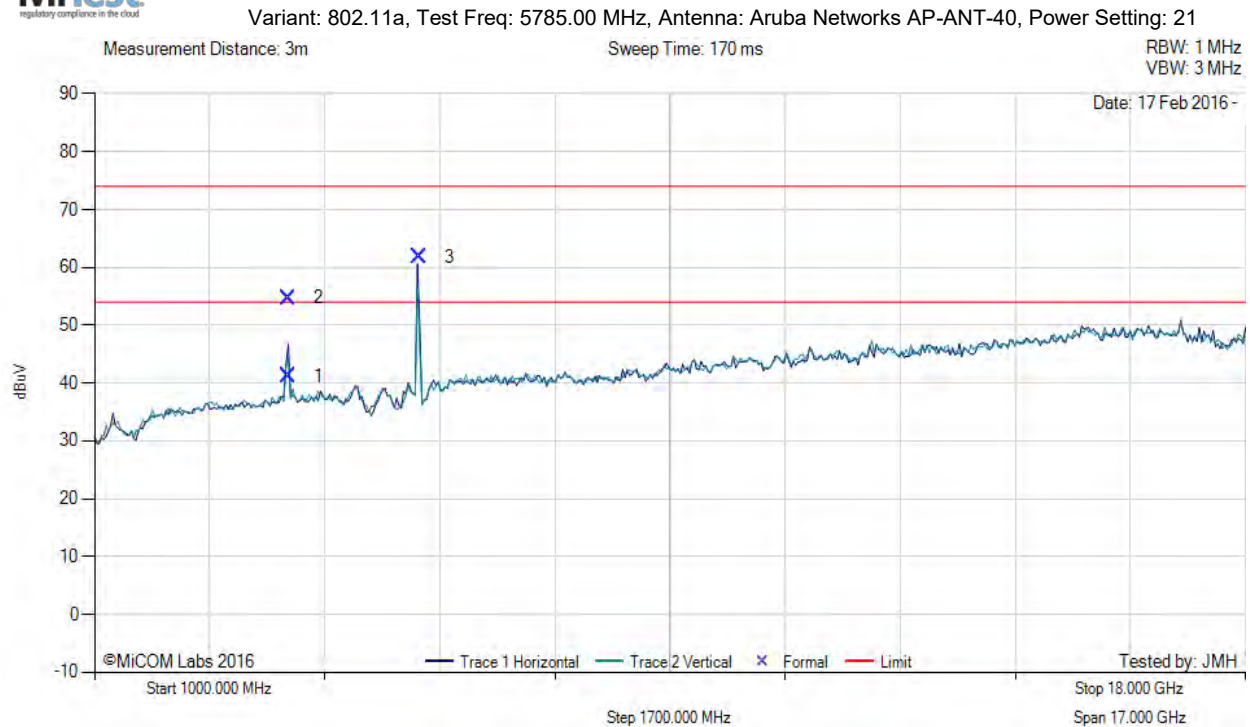
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3827.02	47.62	3.21	-10.83	40.00	Max Avg	Horizontal	152	60	54.0	-14.0	Pass
2	3827.02	62.04	3.21	-10.83	54.42	Max Peak	Horizontal	152	60	74.0	-19.6	Pass
3	5737.91	62.00	3.82	-10.67	55.15	Fundamental	Horizontal	101	30	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



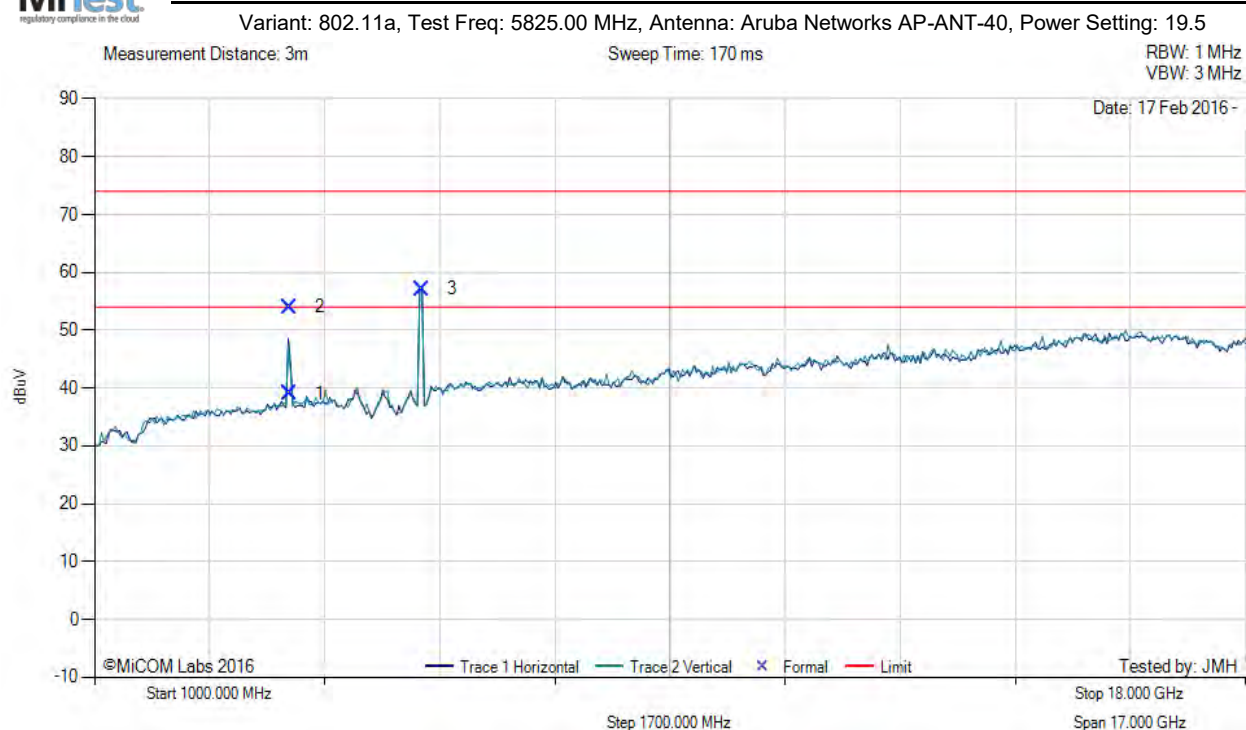
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3856.46	48.71	3.23	-10.81	41.13	Max Avg	Horizontal	165	62	54.0	-12.9	Pass
2	3856.46	62.31	3.23	-10.81	54.73	Max Peak	Horizontal	165	62	74.0	-19.3	Pass
3	5791.18	68.44	3.79	-10.41	61.82	Fundamental	Horizontal	151	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3887.05	46.54	3.25	-10.74	39.05	Max Avg	Horizontal	155	319	54.0	-15.0	Pass
2	3887.05	61.46	3.25	-10.74	53.97	Max Peak	Horizontal	155	319	74.0	-20.0	Pass
3	5828.30	63.48	3.84	-10.24	57.08	Fundamental	Horizontal	151	37	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

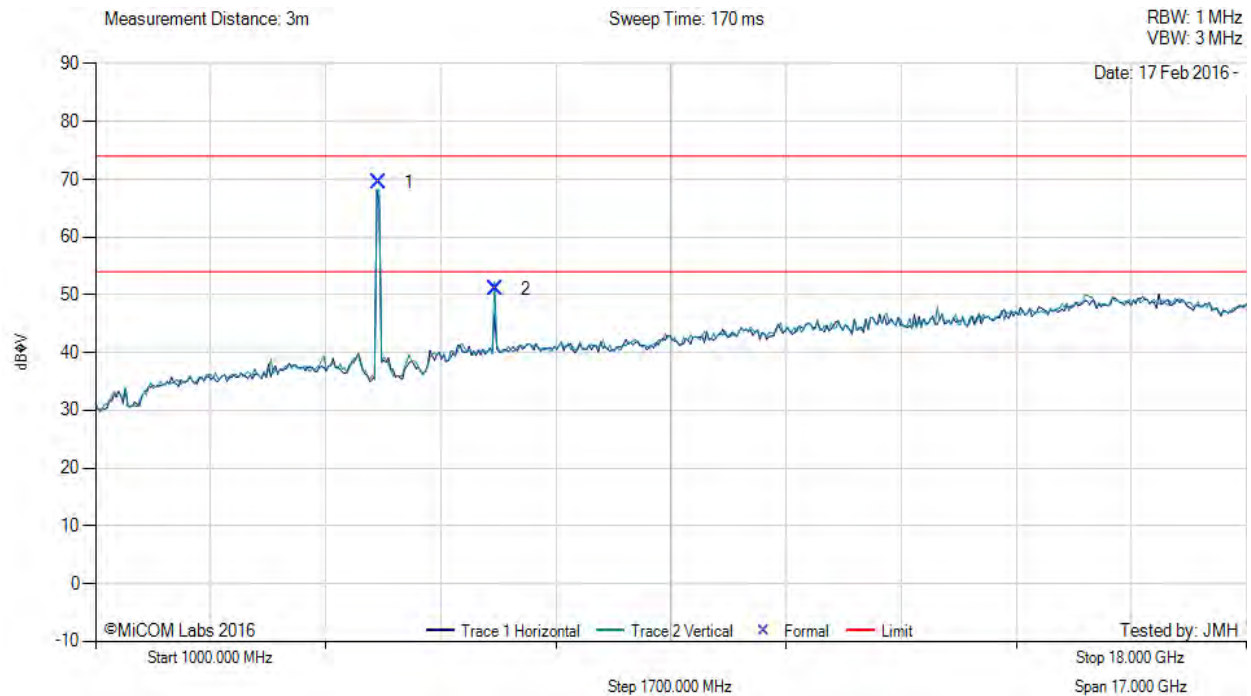
[back to matrix](#)

A.1.1.6. AP-ANT-45



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-45, Power Setting: 17.5



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5175.67	77.24	3.69	-11.51	69.42	Fundamental	Horizontal	101	1	--	--	
2	6906.50	54.36	4.11	-7.54	50.93	Peak (NRB)	Vertical	101	21	--	--	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5200.00 MHz, Antenna: Aruba Networks AP-ANT-45, Power Setting: 21

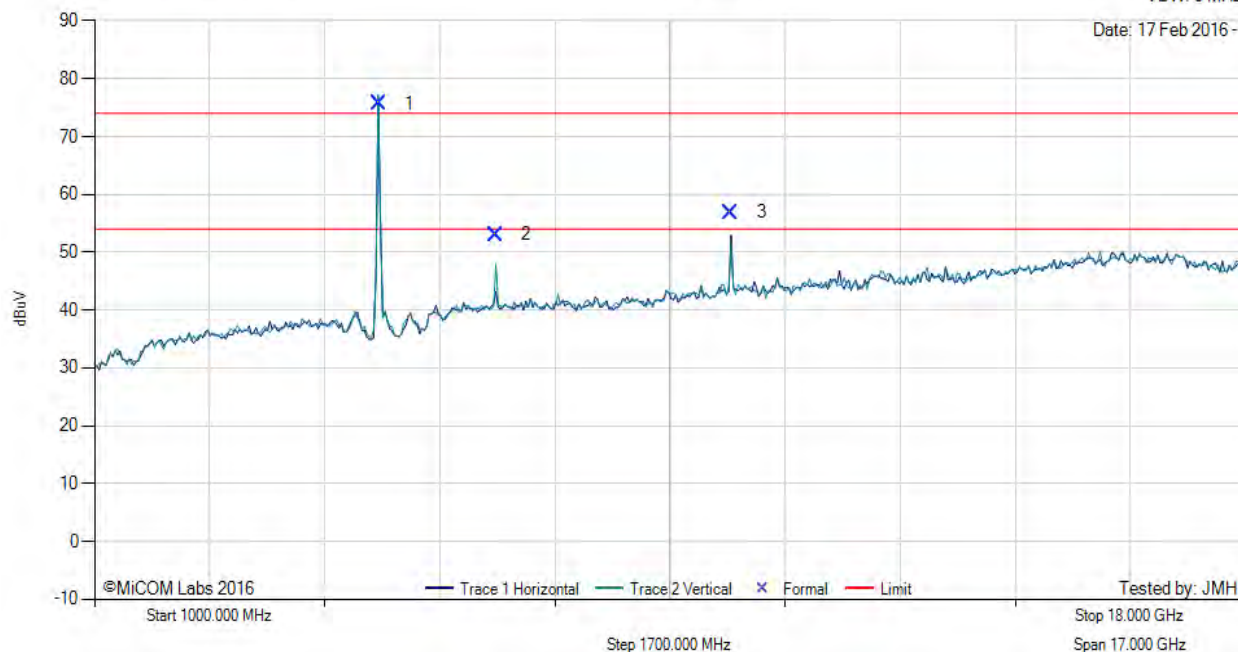
Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz

VBW: 3 MHz

Date: 17 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5196.43	83.53	3.67	-11.47	75.73	Fundamental	Horizontal	101	0	--	--	
2	6933.30	56.38	4.11	-7.49	53.00	Peak (NRB)	Vertical	151	19	--	--	Pass
3	10400.85	56.52	5.41	-5.03	56.90	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5240.00 MHz, Antenna: Aruba Networks AP-ANT-45, Power Setting: 21

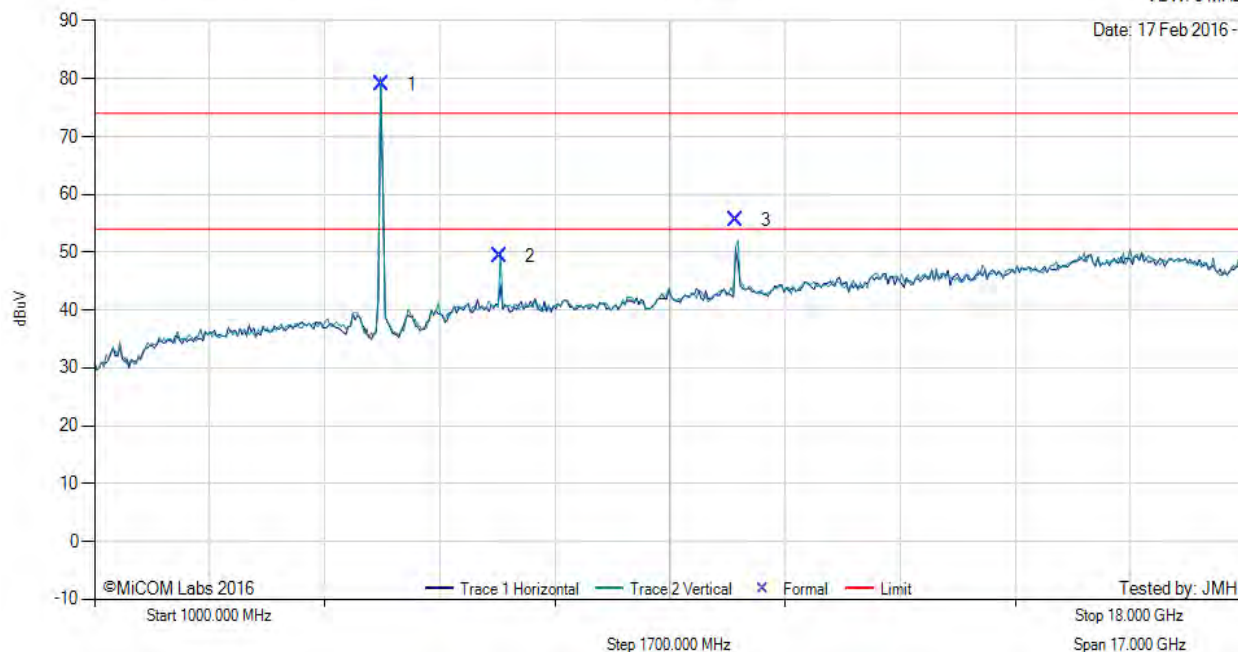
Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz

VBW: 3 MHz

Date: 17 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5237.48	86.72	3.63	-11.37	78.98	Fundamental	Vertical	100	1	--	--	
2	6986.58	52.62	4.13	-7.45	49.30	Peak (NRB)	Vertical	100	1	--	--	Pass
3	10474.23	54.58	5.47	-4.51	55.54	Peak (NRB)	Vertical	100	36	--	--	Pass

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

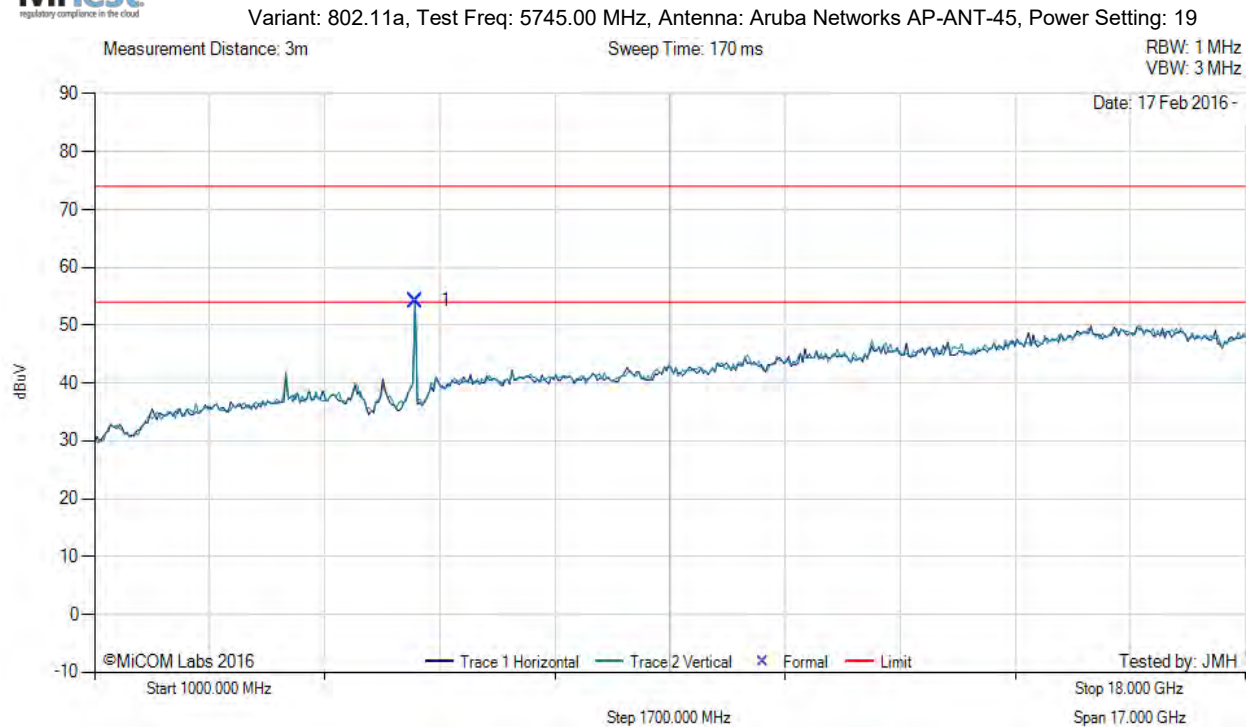
[back to matrix](#)



Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 203 of 320



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5737.35	61.08	3.82	-10.67	54.23	Fundamental	Vertical	101	1	--	--	

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

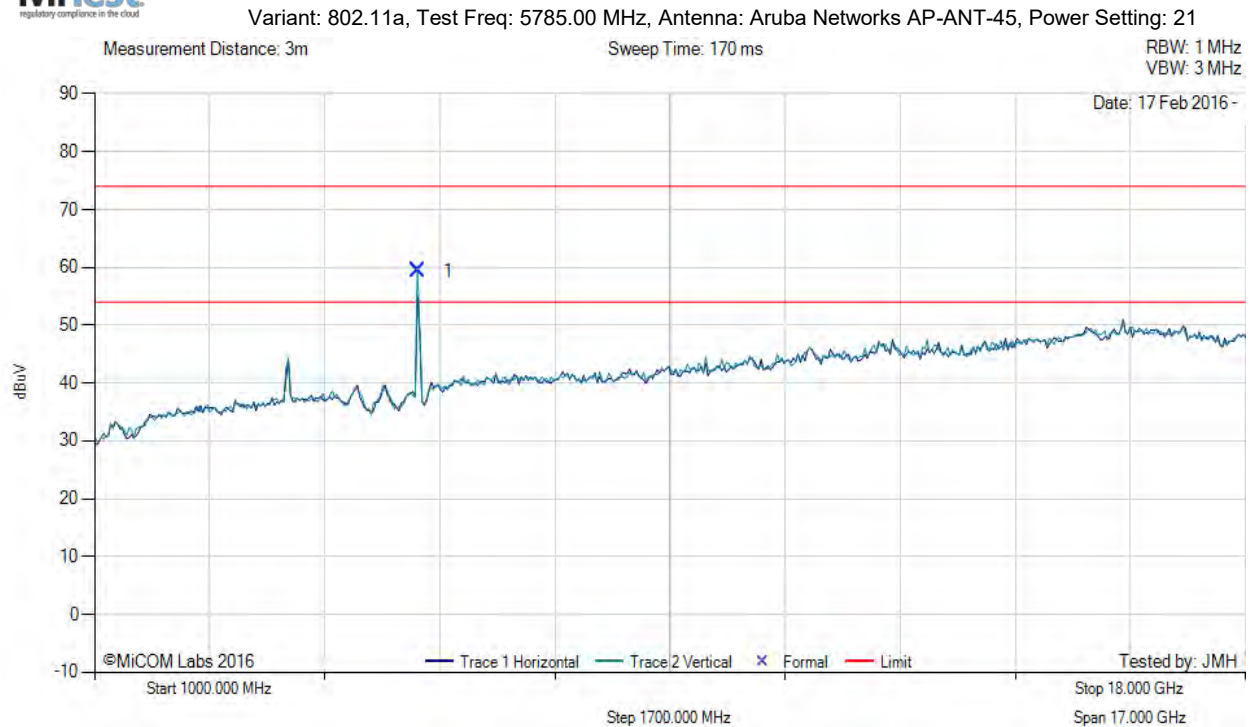
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Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 204 of 320



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5783.85	65.99	3.80	-10.45	59.34	Fundamental	Vertical	151	0	--	--	

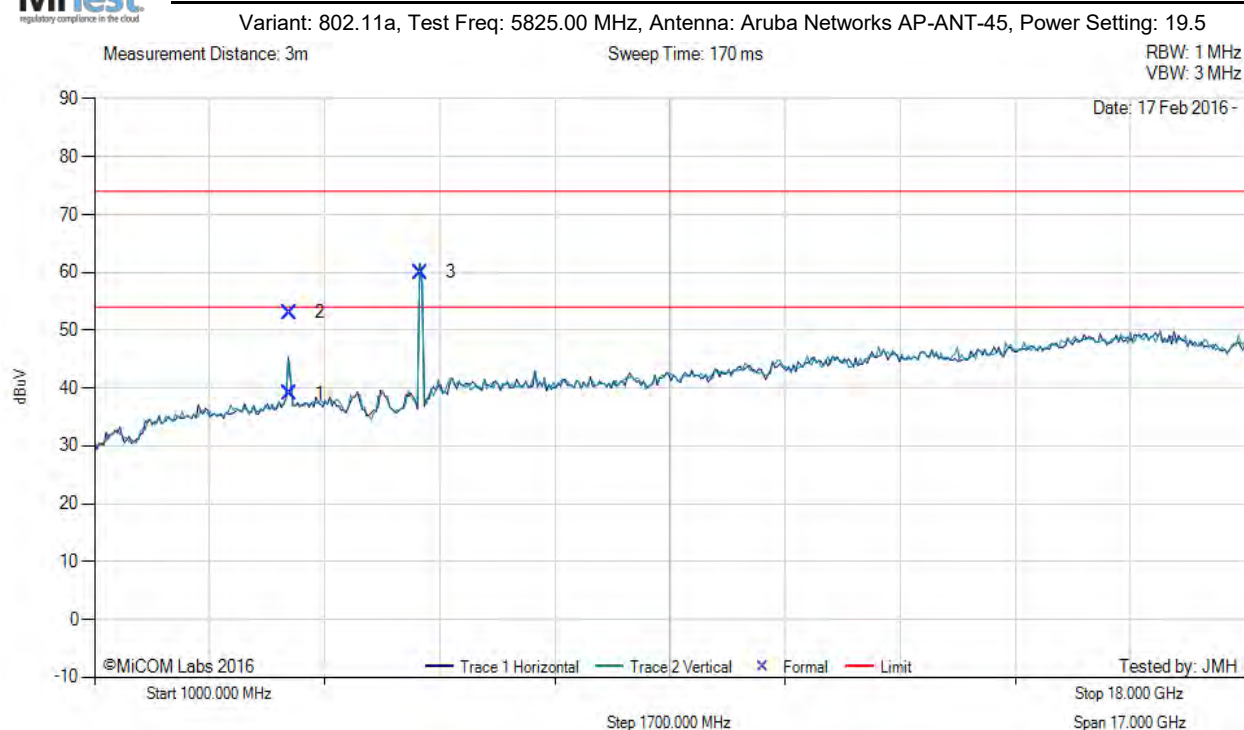
Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

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RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3884.24	46.58	3.25	-10.76	39.07	Max Avg	Horizontal	105	28	54.0	-14.9	Pass
2	3884.24	60.51	3.25	-10.76	53.00	Max Peak	Horizontal	105	28	74.0	-21.0	Pass
3	5821.45	66.38	3.83	-10.26	59.95	Fundamental	Horizontal	101	0	--	--	

Test Notes: Eut on 150cm table powered by POE. Connected to laptop outside chamber.

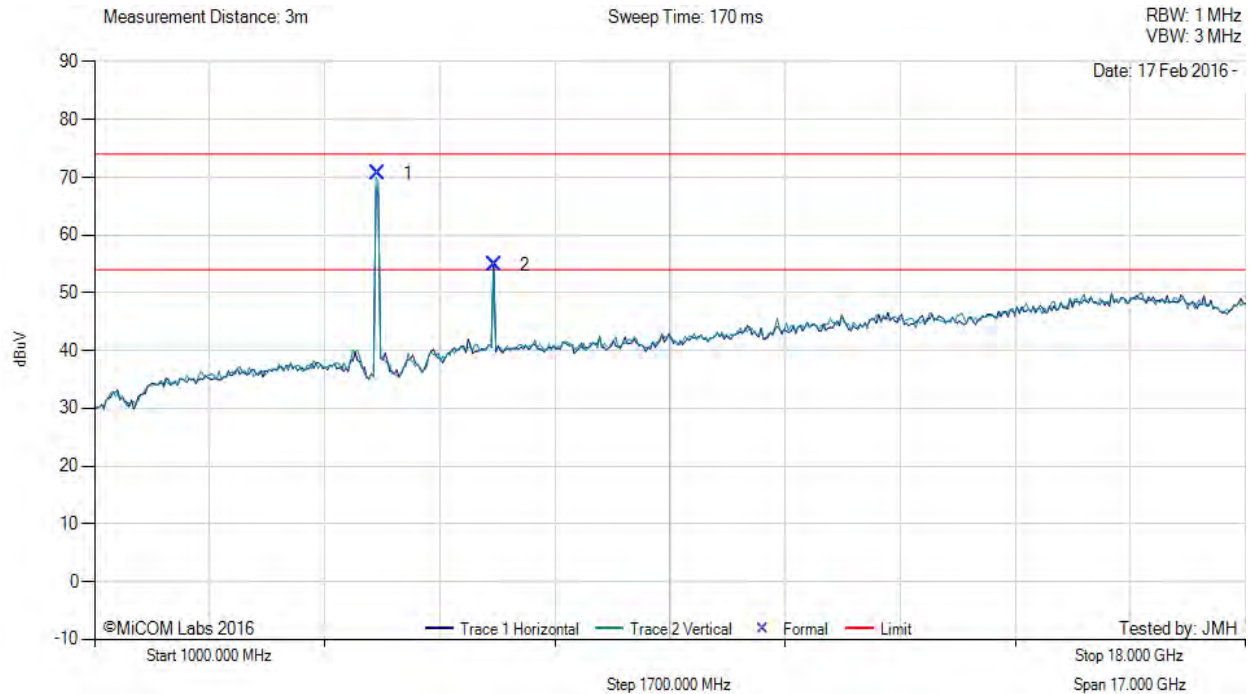
[back to matrix](#)

A.1.1.7. AP-ANT-48



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-48, Power Setting: 17



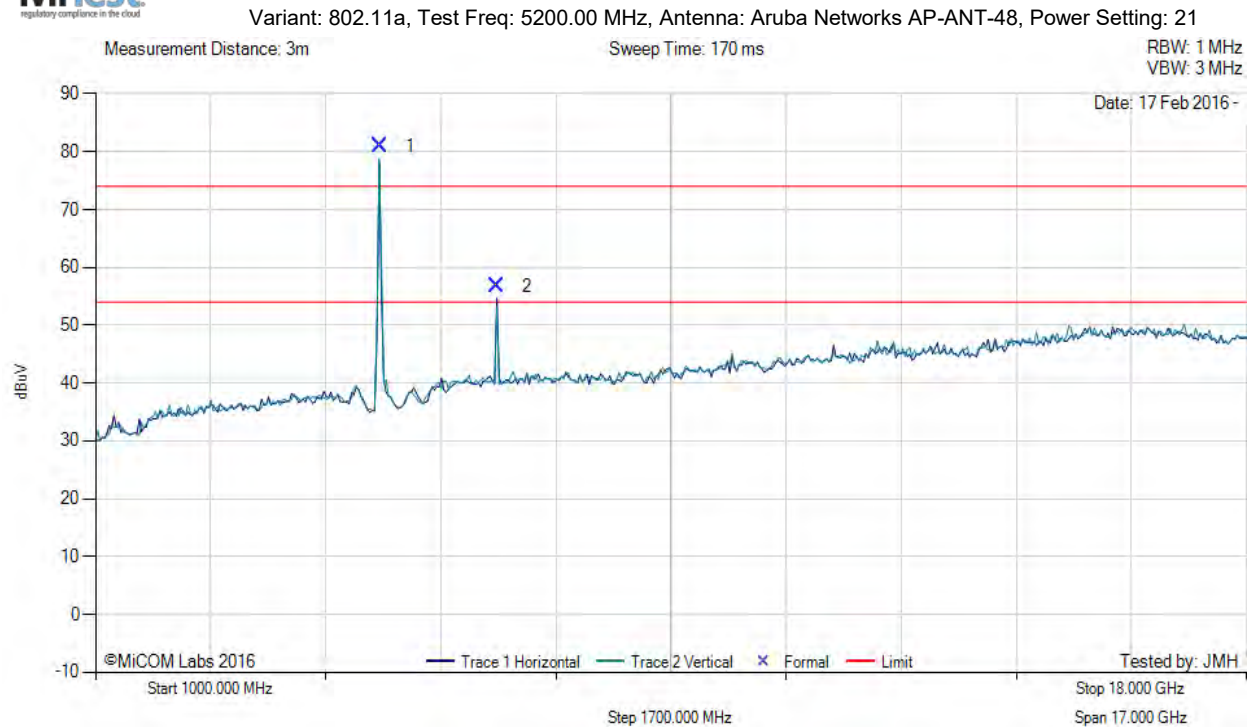
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5175.75	78.42	3.69	-11.51	70.60	Fundamental	Vertical	151	0	--	--	
2	6906.67	58.33	4.11	-7.54	54.90	Peak (NRB)	Horizontal	151	0	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



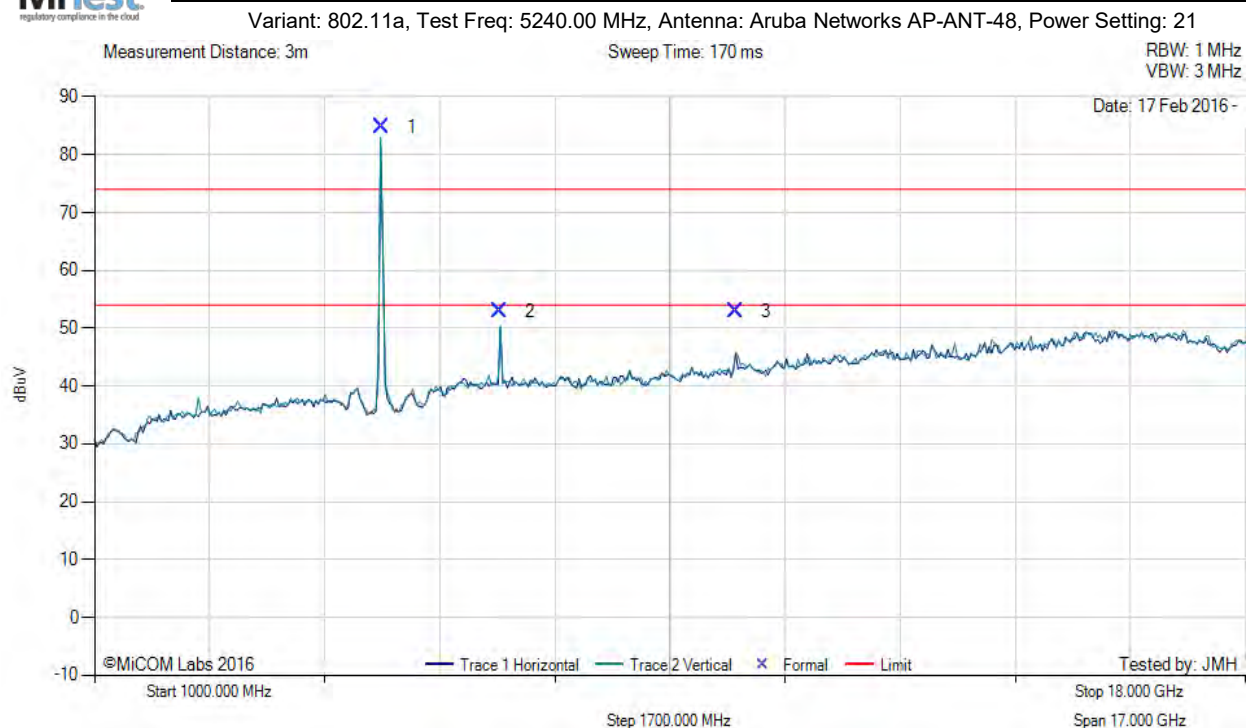
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5195.55	88.82	3.67	-11.47	81.02	Fundamental	Vertical	151	1	--	--	
2	6933.19	60.06	4.11	-7.49	56.68	Peak (NRB)	Horizontal	148	1	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



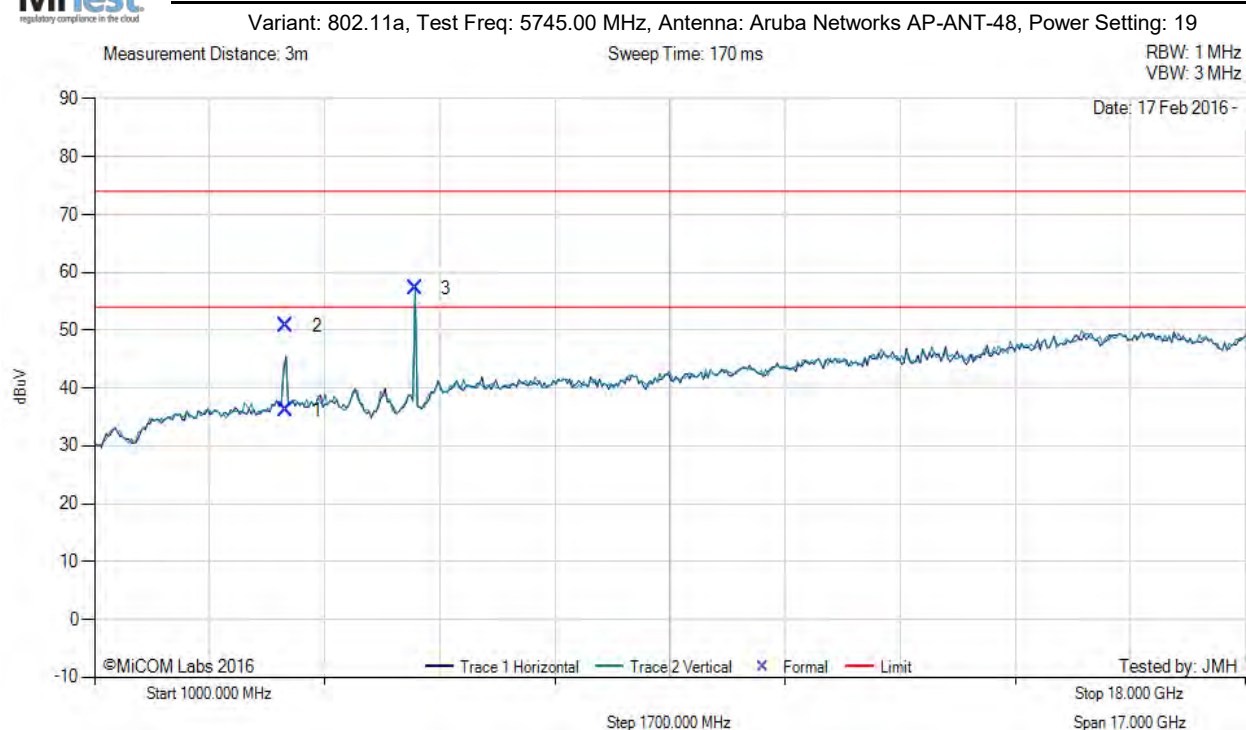
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5233.63	92.60	3.63	-11.38	84.85	Fundamental	Vertical	151	1	--	--	
2	6986.57	56.26	4.13	-7.45	52.94	Peak (NRB)	Horizontal	151	1	--	--	Pass
3	10467.39	51.89	5.55	-4.56	52.88	Peak (NRB)	Vertical	151	1	--	--	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



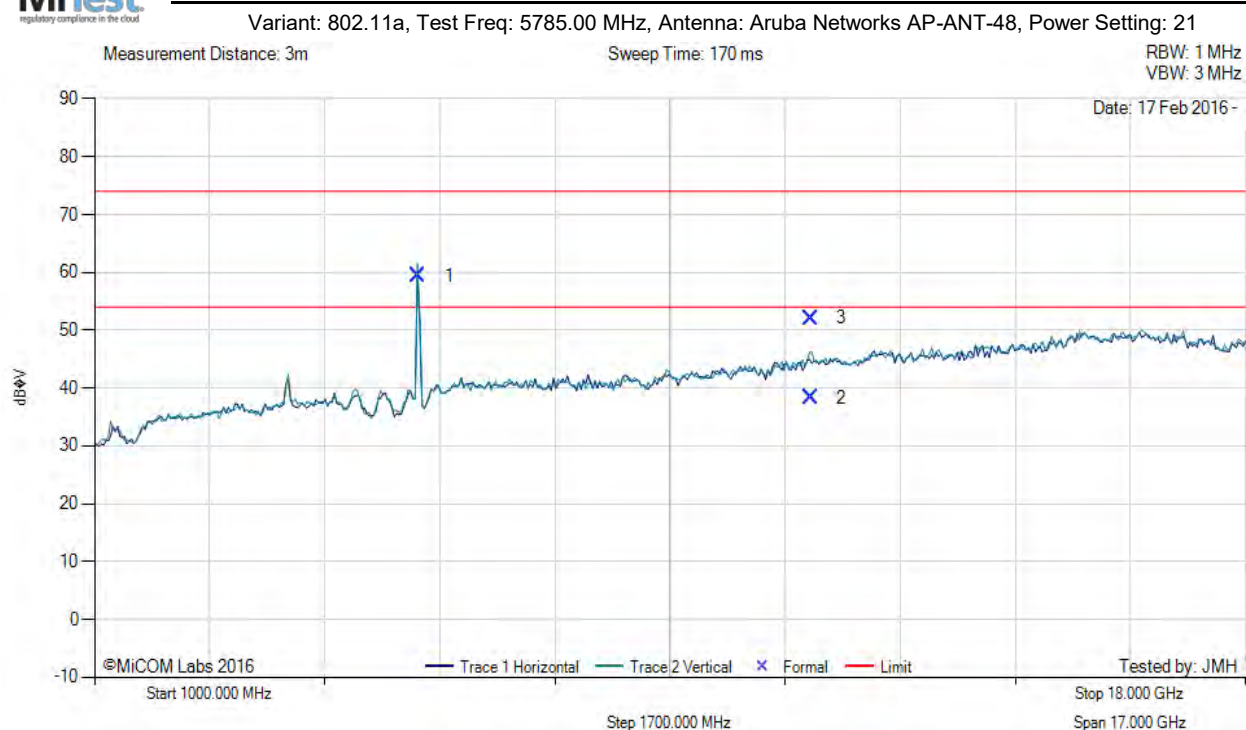
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3833.66	43.84	3.21	-10.83	36.22	Max Avg	Vertical	160	1	54.0	-17.8	Pass
2	3833.66	58.41	3.21	-10.83	50.79	Max Peak	Vertical	160	1	74.0	-23.2	Pass
3	5740.24	64.06	3.83	-10.67	57.22	Fundamental	Vertical	151	1	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



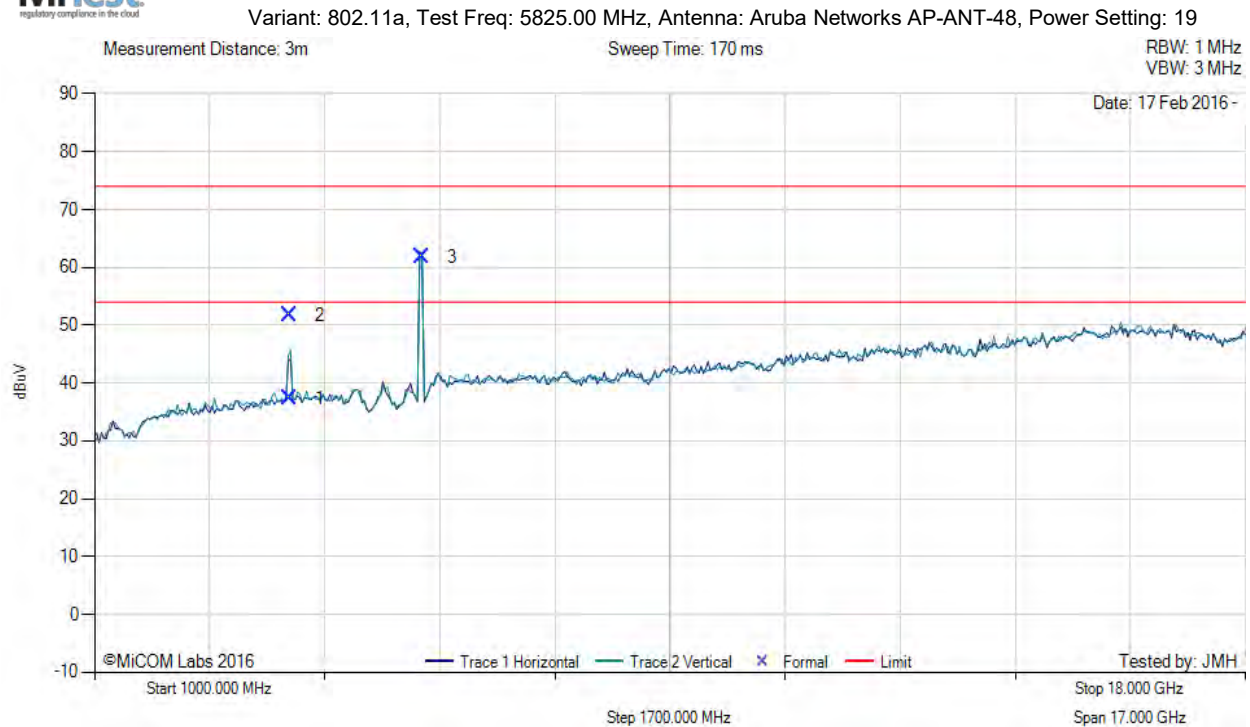
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5788.02	66.01	3.79	-10.43	59.37	Fundamental	Vertical	101	1	--	--	
2	11574.37	37.51	5.42	-4.62	38.31	Max Avg	Vertical	138	49	54.0	-15.7	Pass
3	11574.37	51.25	5.42	-4.62	52.05	Max Peak	Vertical	138	49	74.0	-22.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	3887.20	44.91	3.25	-10.74	37.42	Max Avg	Vertical	167	2	54.0	-16.6	Pass
2	3887.20	59.20	3.25	-10.74	51.71	Max Peak	Vertical	167	2	74.0	-22.3	Pass
3	5831.83	68.13	3.84	-10.22	61.75	Fundamental	Horizontal	101	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

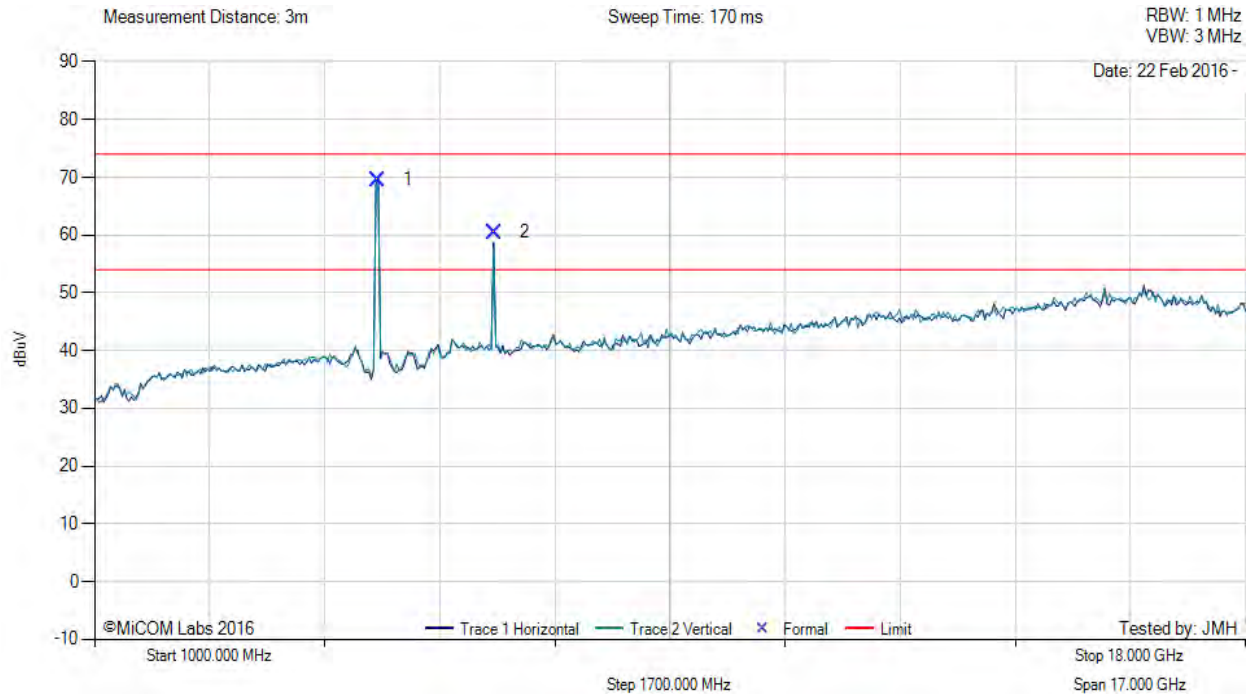
[back to matrix](#)

A.1.1.8. Metal Sheet



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5180.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 17



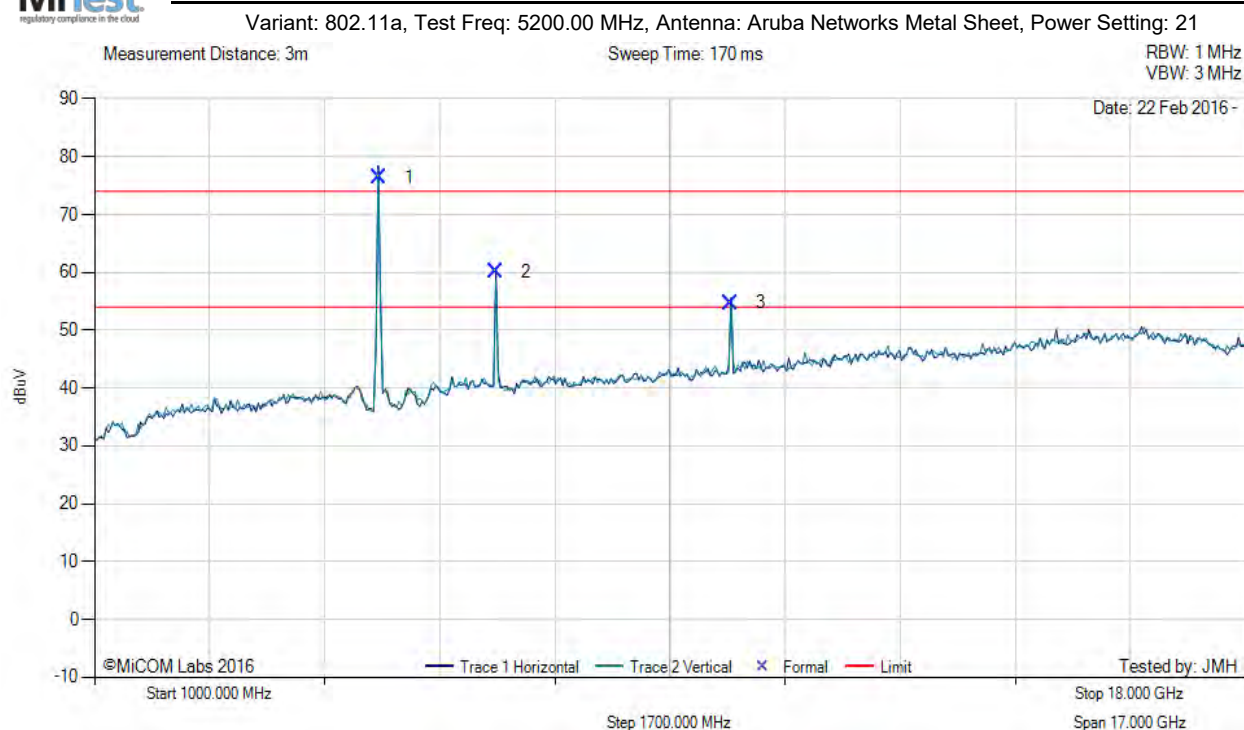
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5185.53	77.40	3.68	-11.49	69.59	Fundamental	Horizontal	151	37	--	--	
2	6906.58	63.88	4.11	-7.54	60.45	Peak (NRB)	Horizontal	151	60	--	--	Pass

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside table.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



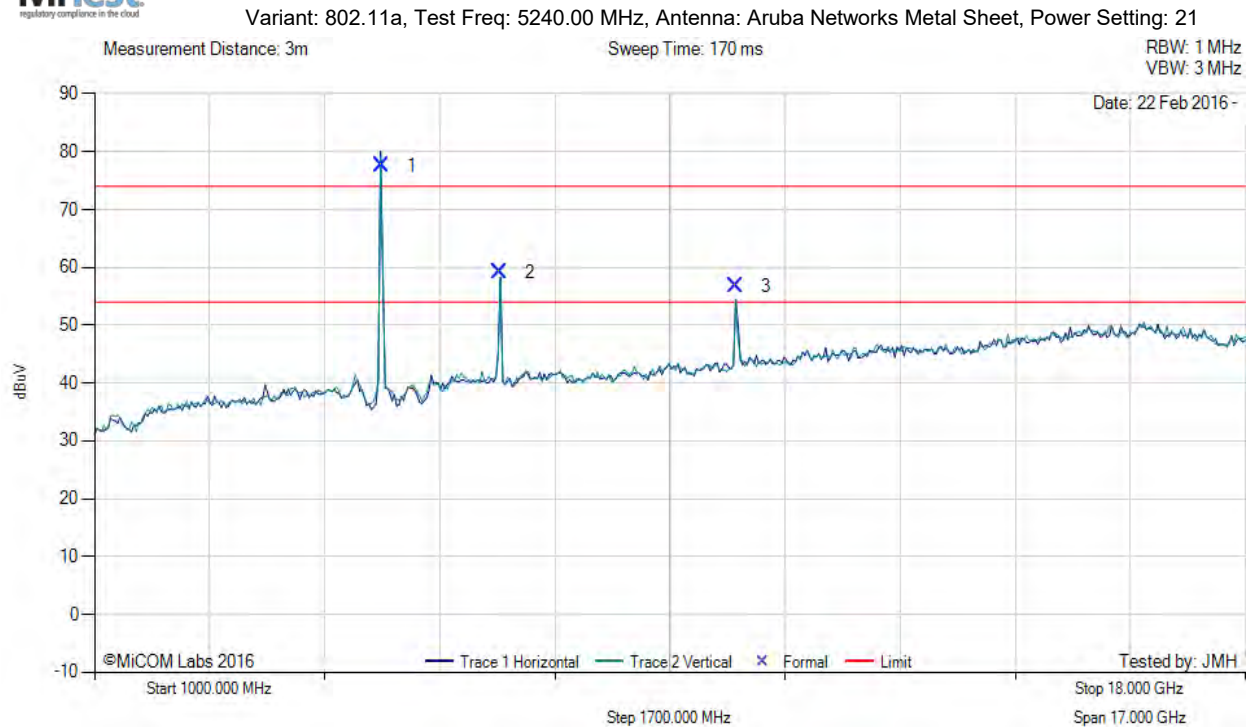
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5197.39	84.23	3.66	-11.47	76.42	Fundamental	Horizontal	101	21	--	--	
2	6933.19	63.47	4.11	-7.49	60.09	Peak (NRB)	Horizontal	151	46	--	--	Pass
3	10397.96	54.36	5.38	-5.05	54.69	Peak (NRB)	Horizontal	200	46	--	--	Pass

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside table.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



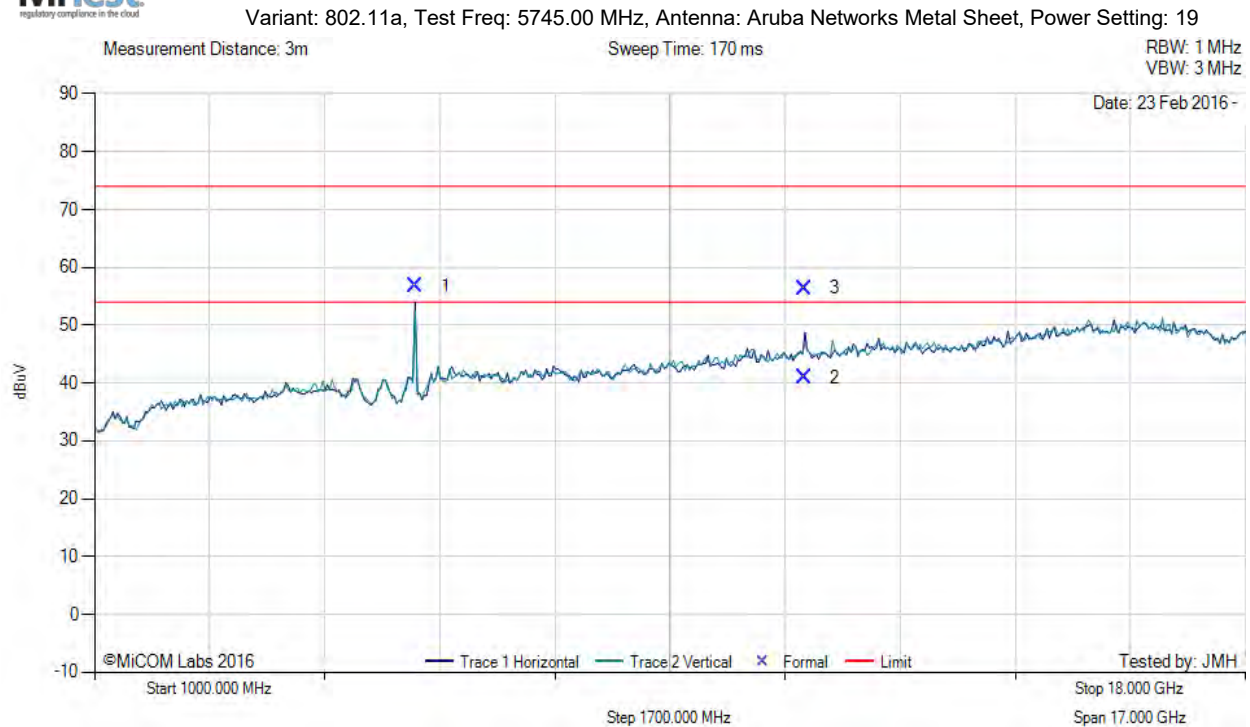
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5236.31	85.27	3.63	-11.37	77.53	Fundamental	Horizontal	151	19	--	--	
2	6986.65	62.44	4.13	-7.45	59.12	Peak (NRB)	Horizontal	151	55	--	--	Pass
3	10477.07	55.74	5.44	-4.48	56.70	Peak (NRB)	Horizontal	151	55	--	--	Pass

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside table.

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



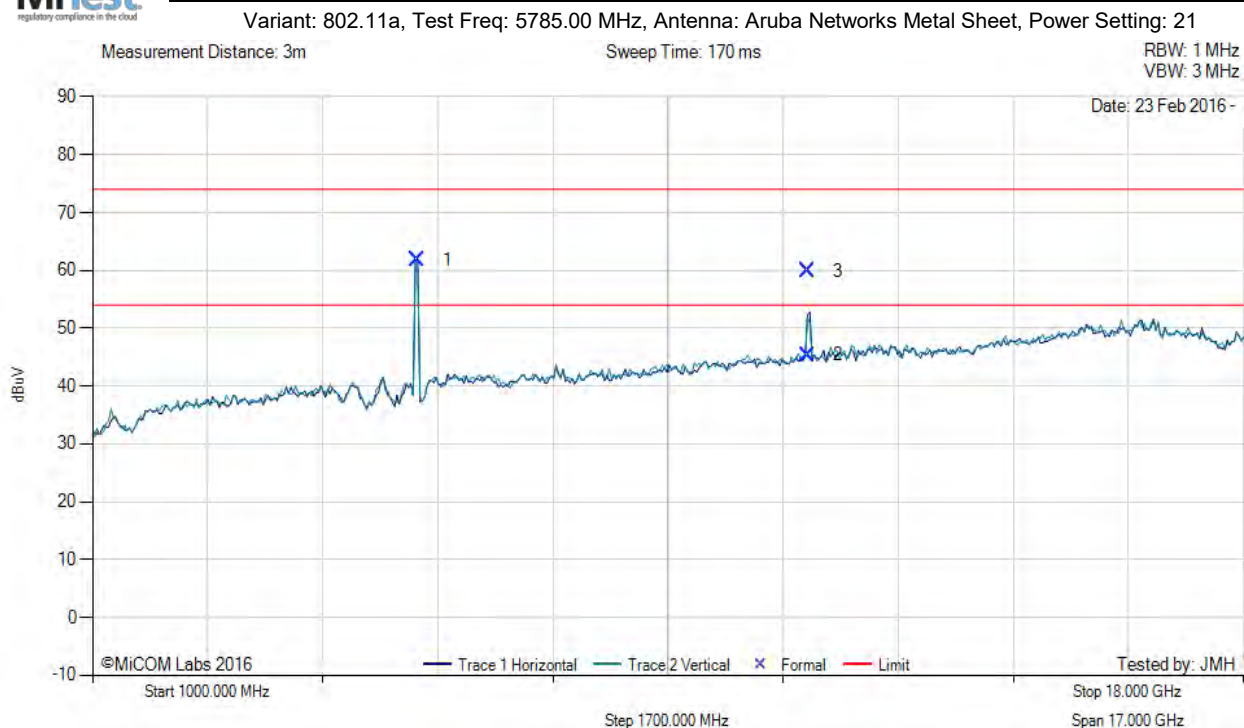
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5738.44	63.62	3.82	-10.67	56.77	Fundamental	Horizontal	151	47	--	--	
2	11492.15	40.35	5.44	-4.84	40.95	Max Avg	Horizontal	157	49	54.0	-13.1	Pass
3	11492.15	55.81	5.44	-4.84	56.41	Max Peak	Horizontal	157	49	74.0	-17.6	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5789.98	68.43	3.79	-10.42	61.80	Fundamental	Horizontal	101	30	--	--	
2	11561.20	44.39	5.64	-4.67	45.36	Max Avg	Horizontal	172	61	54.0	-8.6	Pass
3	11561.20	58.95	5.64	-4.67	59.92	Max Peak	Horizontal	172	61	74.0	-14.1	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RADIATED SPURIOUS - RESTRICTED BAND EMISSIONS

Variant: 802.11a, Test Freq: 5825.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 19.5

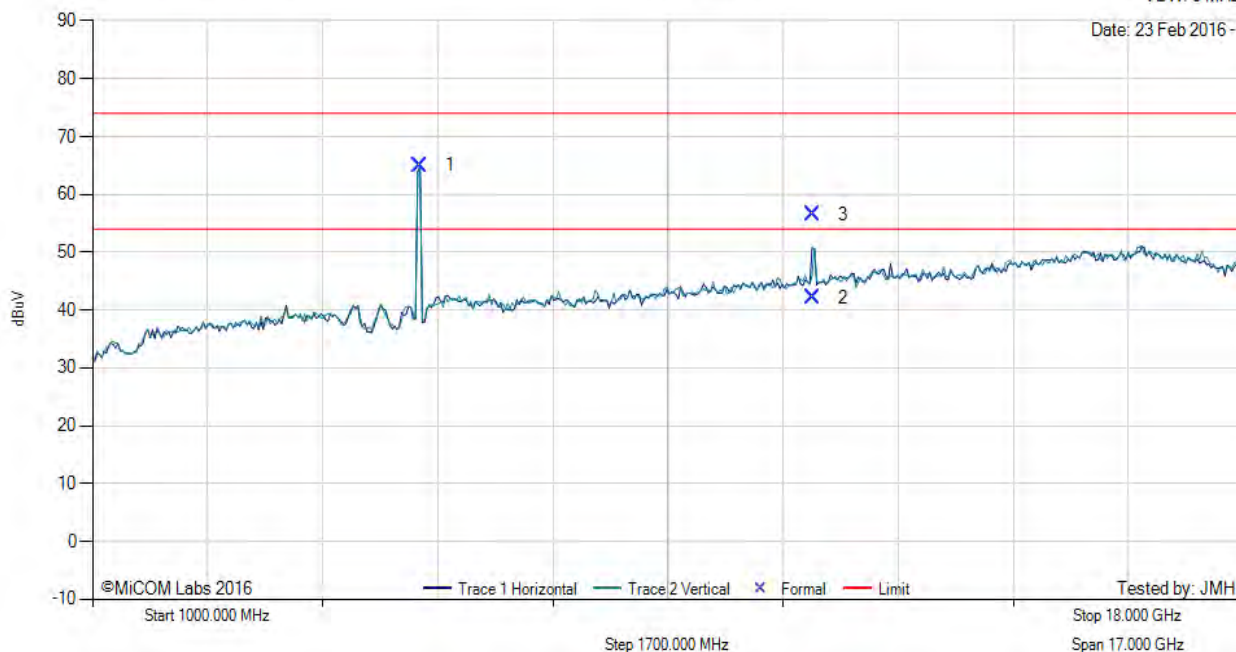
Measurement Distance: 3m

Sweep Time: 170 ms

RBW: 1 MHz

VBW: 3 MHz

Date: 23 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5829.74	71.40	3.84	-10.22	65.02	Fundamental	Horizontal	101	32	--	--	
2	11642.25	41.06	5.48	-4.47	42.07	Max Avg	Horizontal	142	55	54.0	-11.9	Pass
3	11642.25	55.44	5.48	-4.47	56.45	Max Peak	Horizontal	142	55	74.0	-17.6	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

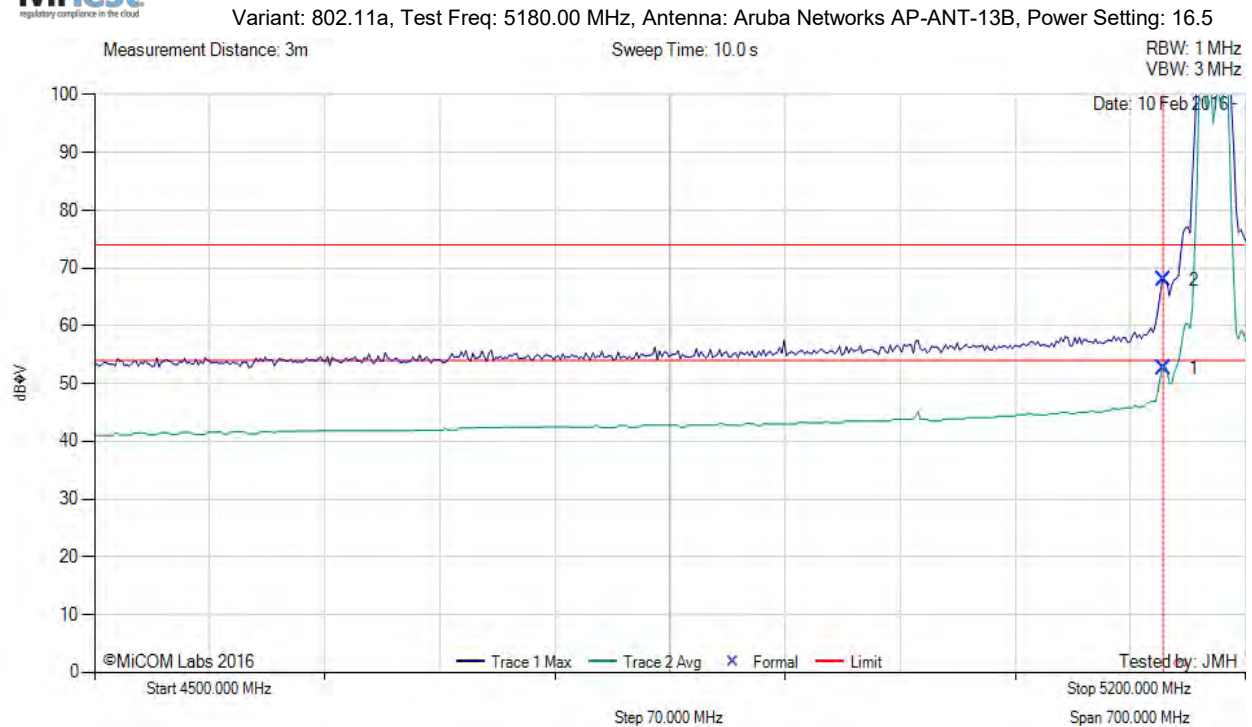
[back to matrix](#)

A.1.2. Restricted Band-Edge Emissions

A.1.2.9. AP-ANT-13B



RESTRICTED LOWER BAND-EDGE EMISSIONS



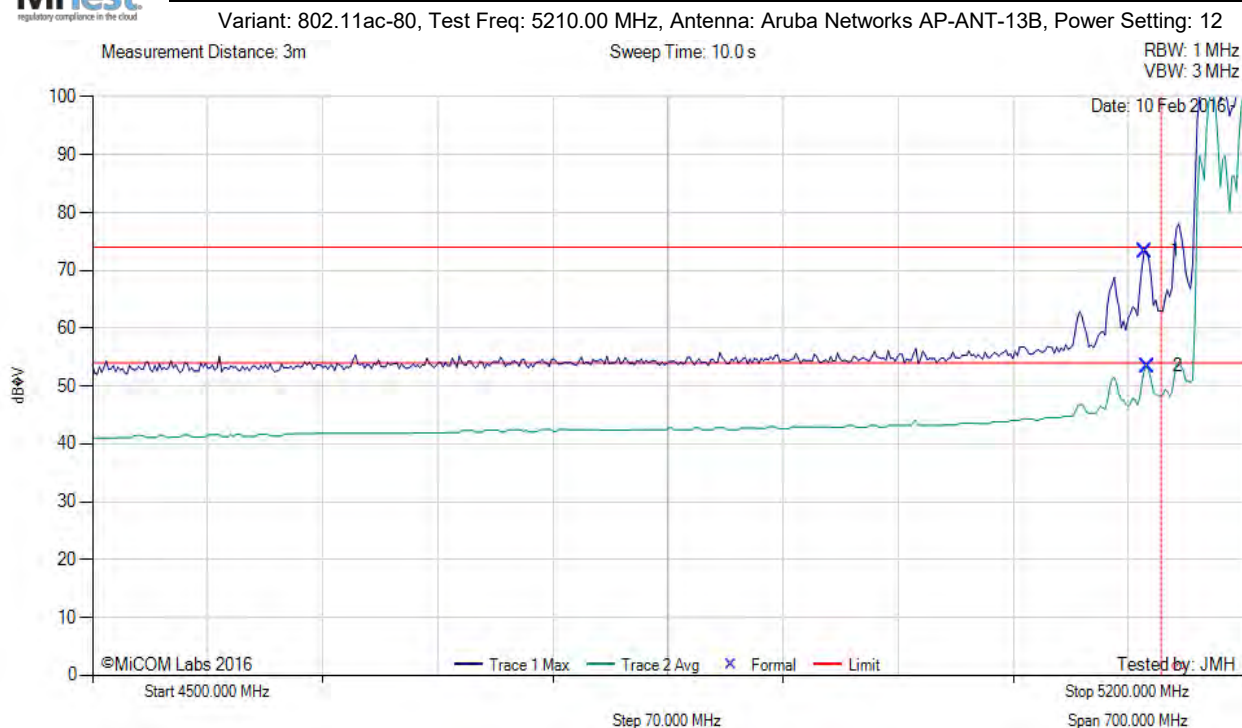
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	14.87	3.67	34.11	52.65	Max Avg	Horizontal	147	317	54.0	-1.4	Pass
2	5150.00	30.16	3.67	34.11	67.94	Max Peak	Horizontal	147	317	74.0	-6.1	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5140.18	35.52	3.70	34.12	73.34	Max Peak	Horizontal	147	317	74.0	-0.7	Pass
2	5141.58	15.61	3.70	34.12	53.43	Max Avg	Horizontal	147	317	54.0	-0.6	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-13B, Power Setting: 16.5

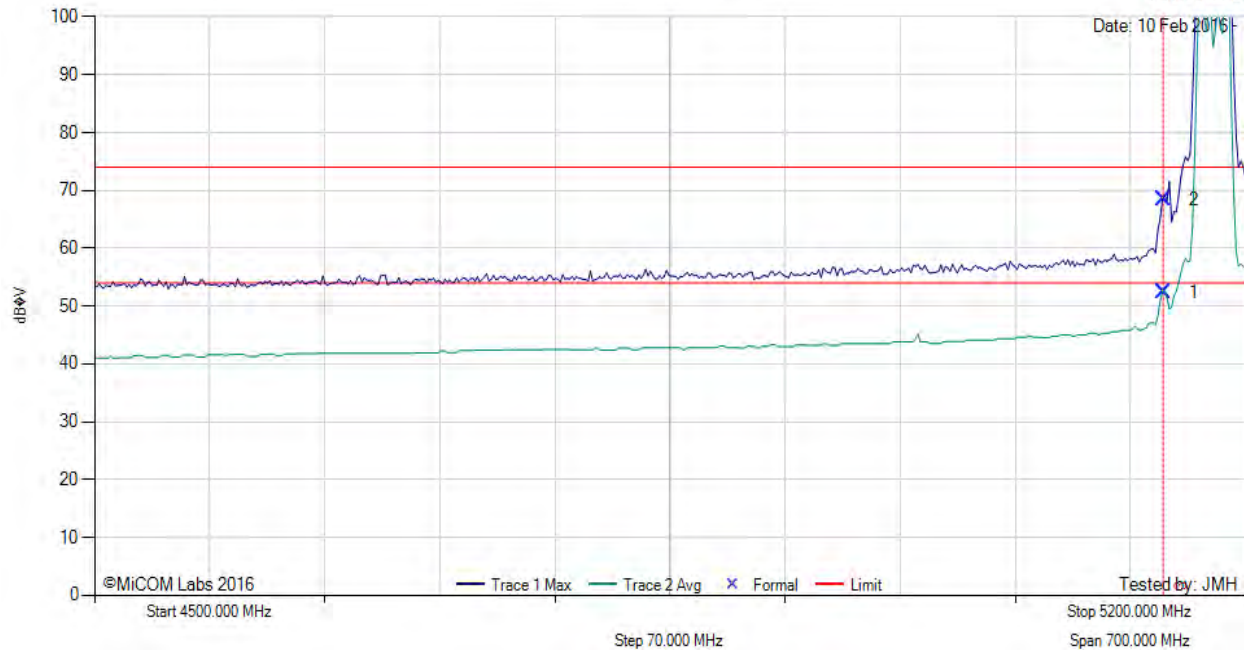
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 10 Feb 2016



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	14.55	3.67	34.11	52.33	Max Avg	Horizontal	147	317	54.0	-1.7	Pass
2	5150.00	30.62	3.67	34.11	68.40	Max Peak	Horizontal	147	317	74.0	-5.6	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



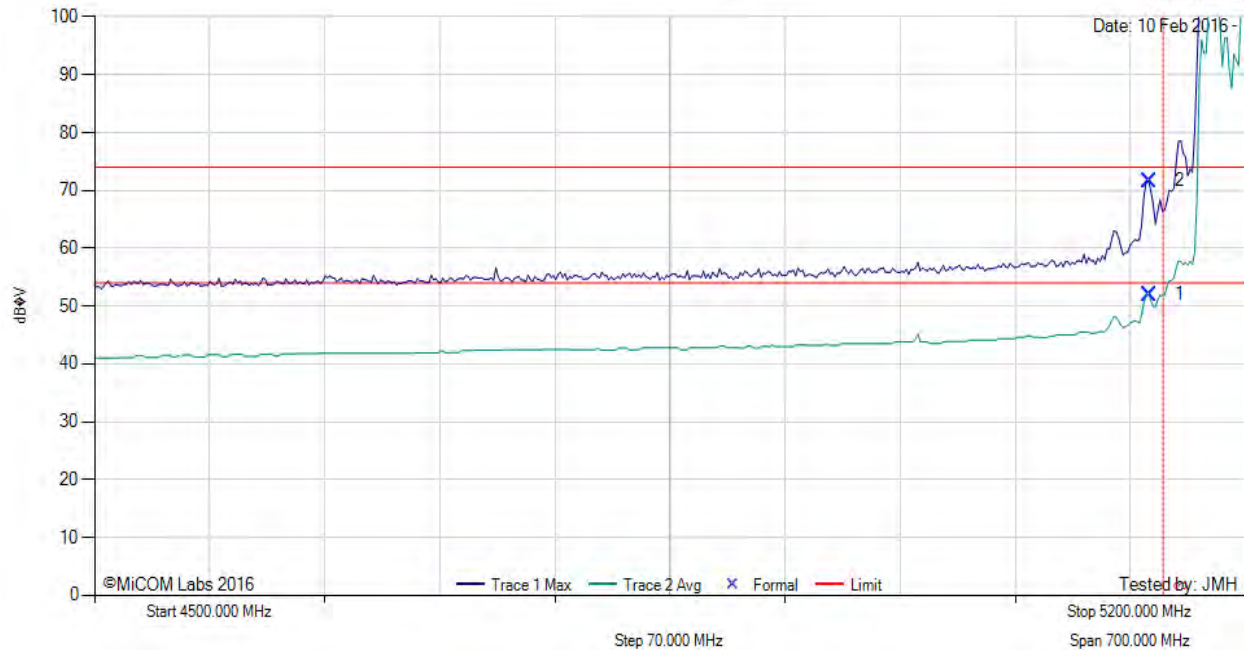
RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5190.00 MHz, Antenna: Aruba Networks AP-ANT-13B, Power Setting: 15.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz



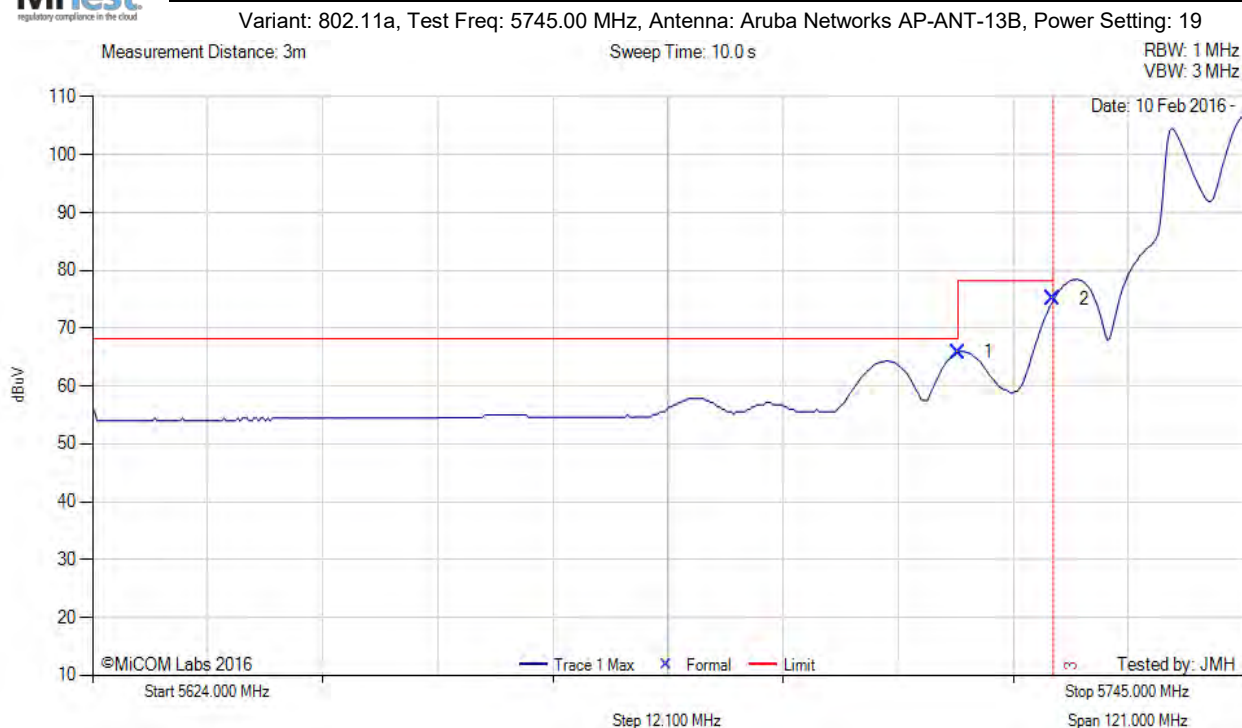
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5141.58	14.16	3.70	34.12	51.98	Max Avg	Horizontal	147	317	54.0	-2.0	Pass
2	5141.58	33.81	3.70	34.12	71.63	Max Peak	Horizontal	147	317	74.0	-2.4	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	27.68	3.81	34.34	65.83	Marker	Horizontal	152	307	68.2	-2.4	Pass
2	5725.00	36.98	3.79	34.35	75.12	Marker	Horizontal	152	307	78.2	-3.1	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

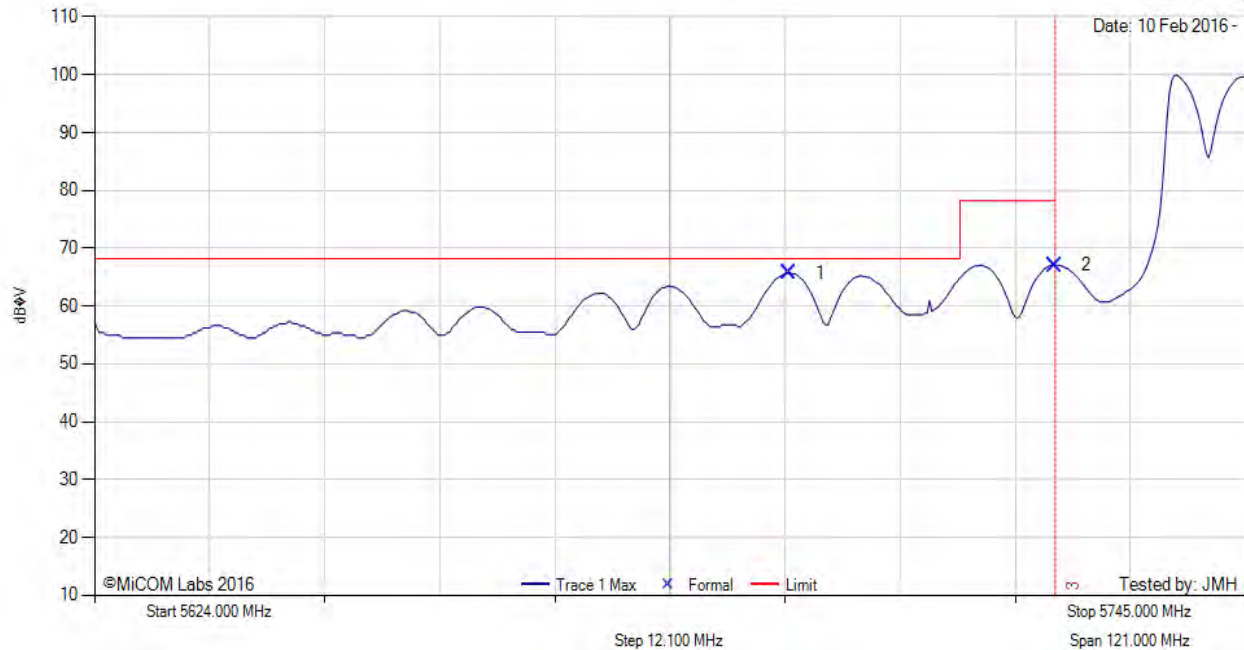
Variant: 802.11ac-80, Test Freq: 5775.00 MHz, Antenna: Aruba Networks AP-ANT-13B, Power Setting: 16.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 10 Feb 2016 -



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5697.06	27.50	3.86	34.32	65.68	Marker	Horizontal	152	307	68.2	-2.6	Pass
2	5725.00	28.95	3.79	34.35	67.09	Marker	Horizontal	152	307	78.2	-11.1	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



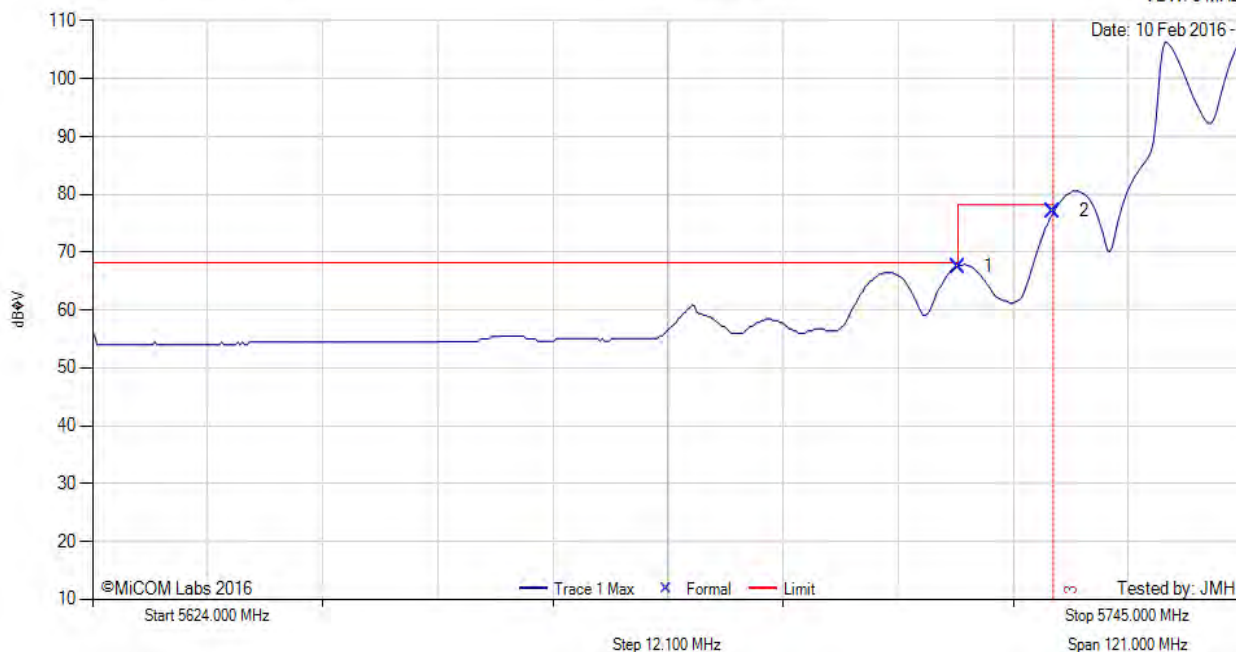
5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5745.00 MHz, Antenna: Aruba Networks AP-ANT-13B, Power Setting: 19.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz



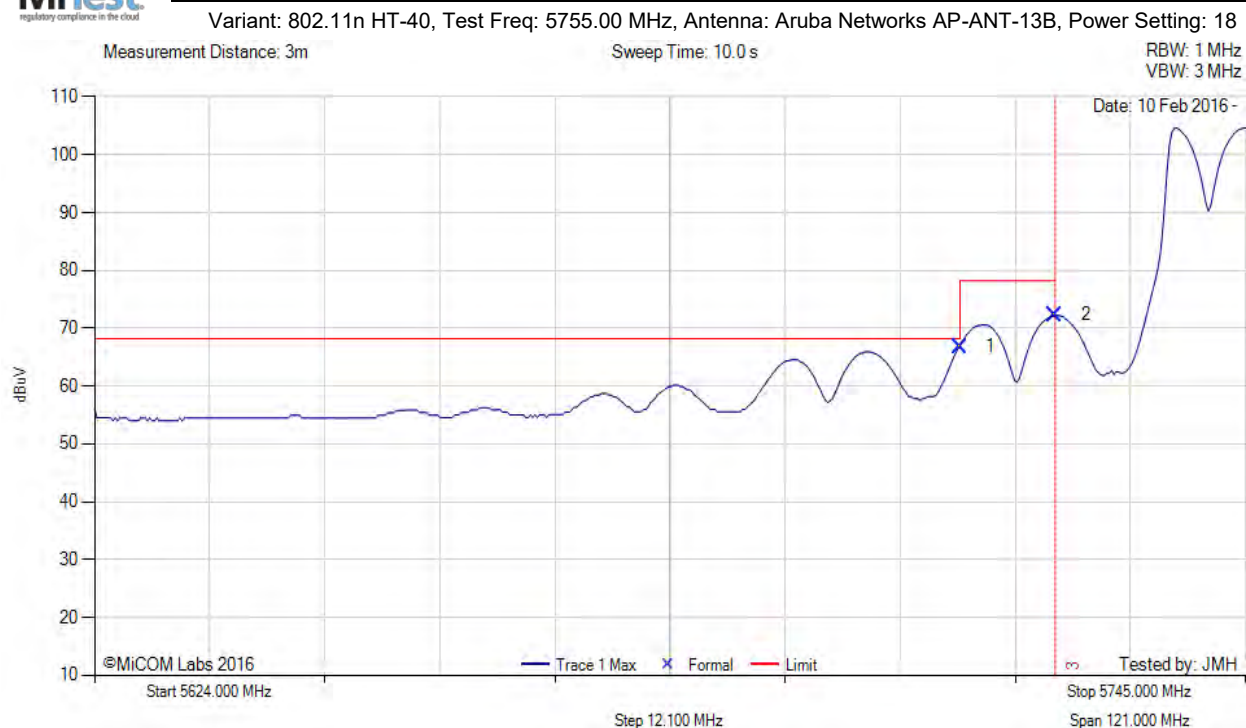
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5715.00	29.37	3.81	34.34	67.52	Marker	Horizontal	152	307	68.2	-0.7	Pass
2	5725.00	38.94	3.79	34.35	77.08	Marker	Horizontal	152	307	78.2	-1.2	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



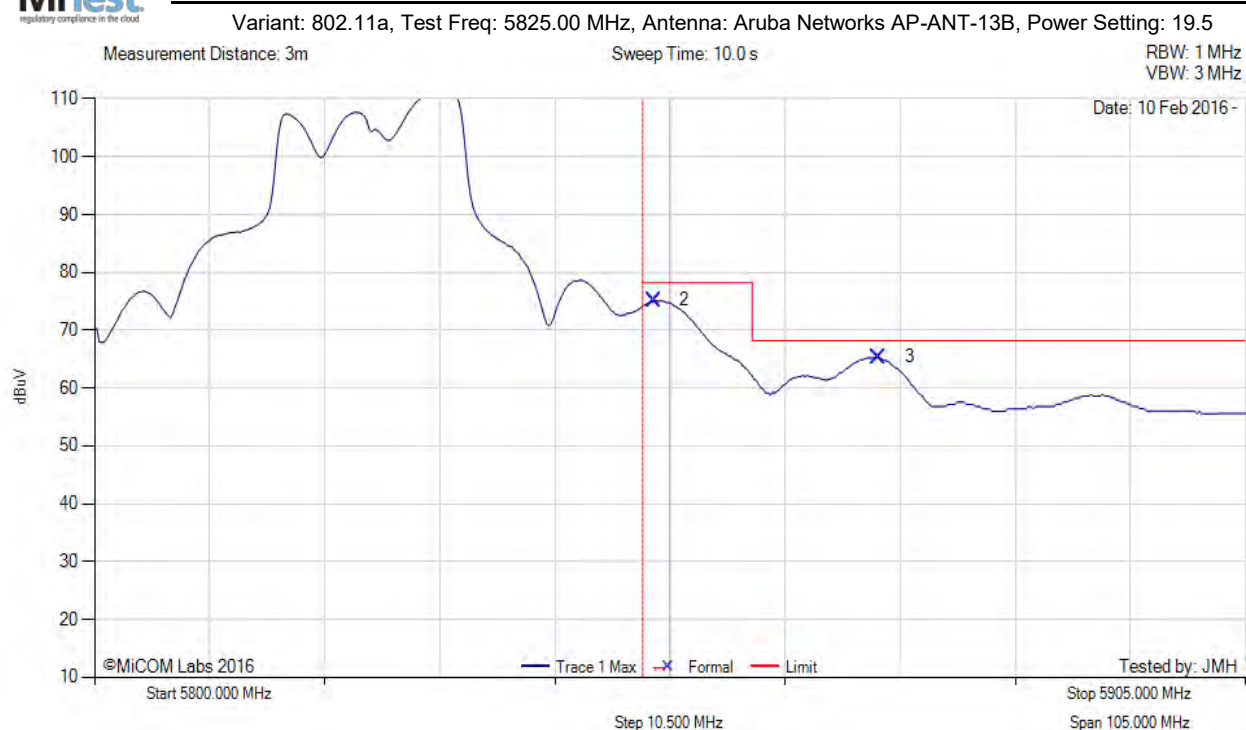
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	28.69	3.81	34.34	66.84	Marker	Horizontal	152	307	68.2	-1.4	Pass
2	5725.00	34.18	3.79	34.35	72.32	Marker	Horizontal	152	307	78.2	-5.9	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



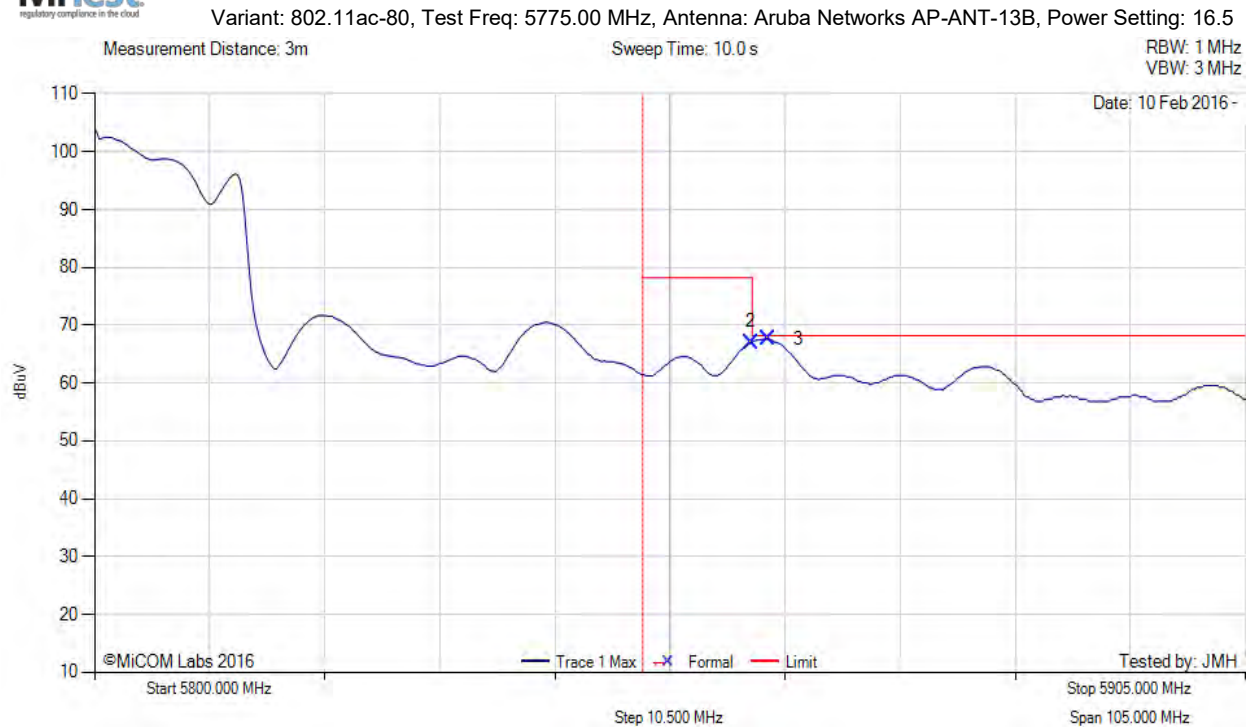
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5851.05	36.73	3.81	34.63	75.17	Marker	Horizontal	146	319	78.2	-3.1	Pass
3	5871.57	26.89	3.80	34.69	65.38	Marker	Horizontal	146	319	68.2	-2.9	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



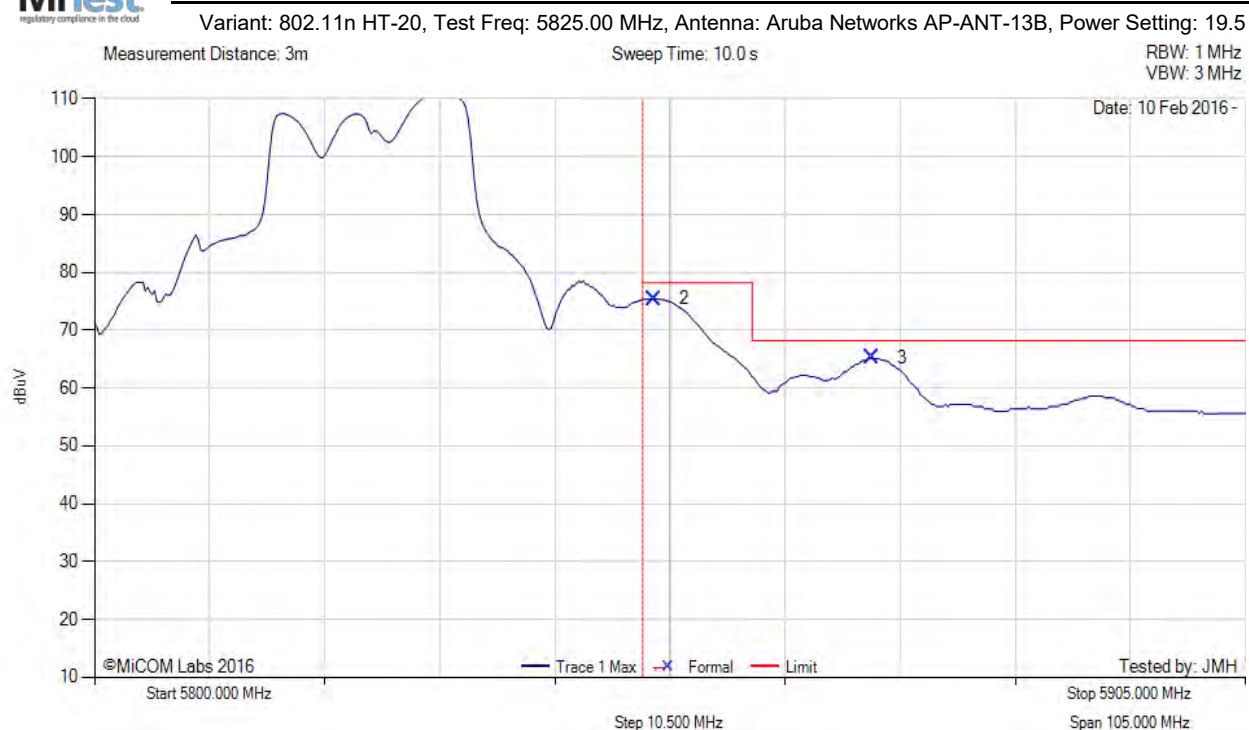
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5859.89	28.58	3.86	34.65	67.09	Marker	Horizontal	146	319	78.2	-11.1	Pass
3	5861.47	29.15	3.86	34.66	67.67	Marker	Horizontal	146	319	68.2	-0.6	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



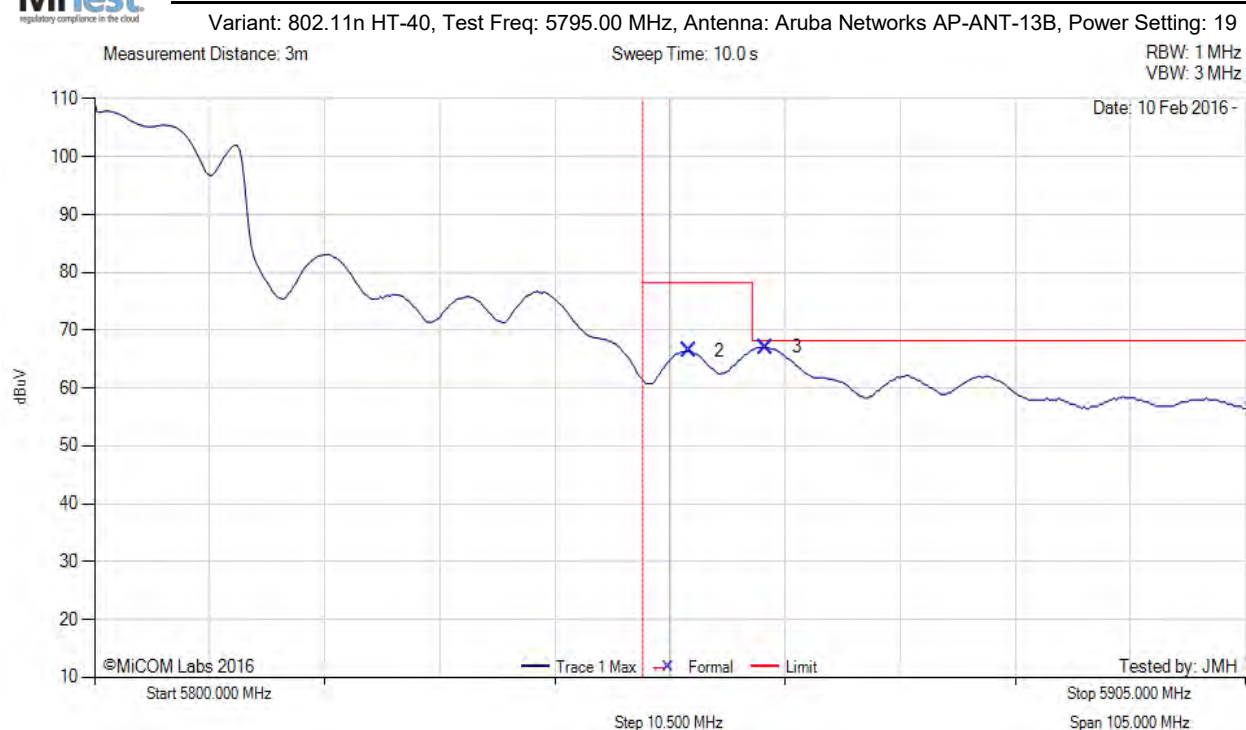
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5851.05	37.01	3.81	34.63	75.45	Marker	Horizontal	146	319	78.2	-2.8	Pass
3	5870.94	26.74	3.81	34.68	65.23	Marker	Horizontal	146	319	68.2	-3.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5854.21	27.98	3.83	34.64	66.45	Marker	Horizontal	146	319	78.2	-11.8	Pass
3	5861.26	28.57	3.86	34.66	67.09	Marker	Horizontal	146	319	68.2	-1.1	Pass

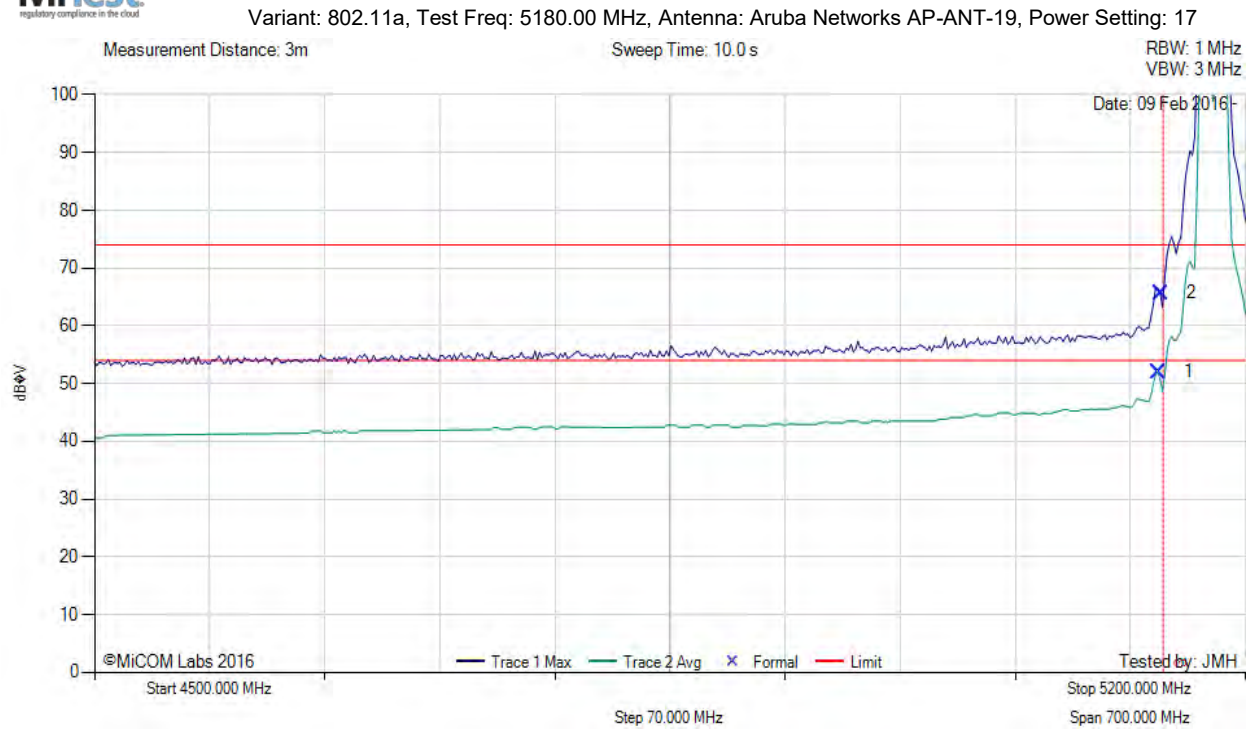
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

A.1.2.10. AP-ANT-19



RESTRICTED LOWER BAND-EDGE EMISSIONS



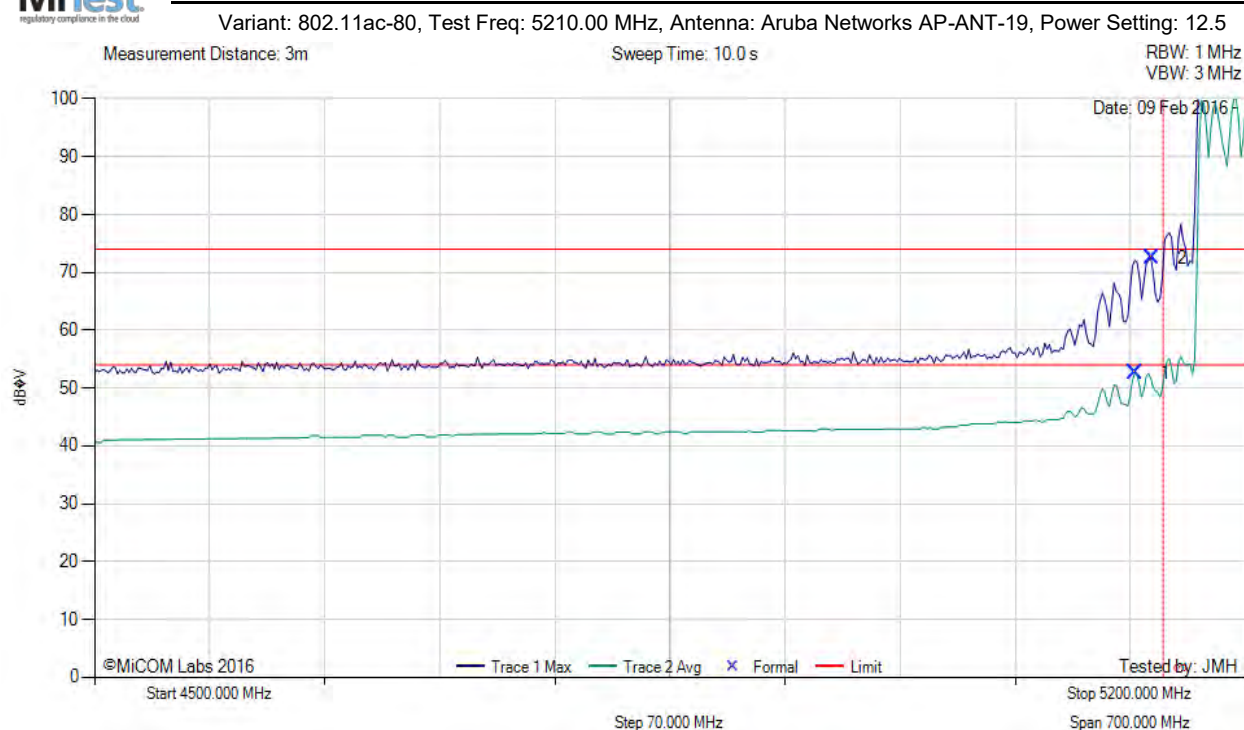
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5147.19	14.20	3.68	34.11	51.99	Max Avg	Vertical	151	8	54.0	-2.0	Pass
2	5148.60	27.87	3.67	34.11	65.65	Max Peak	Vertical	151	8	74.0	-8.4	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5133.17	14.81	3.69	34.12	52.62	Max Avg	Vertical	151	8	54.0	-1.4	Pass
2	5142.99	34.73	3.70	34.12	72.55	Max Peak	Vertical	151	8	74.0	-1.5	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 17

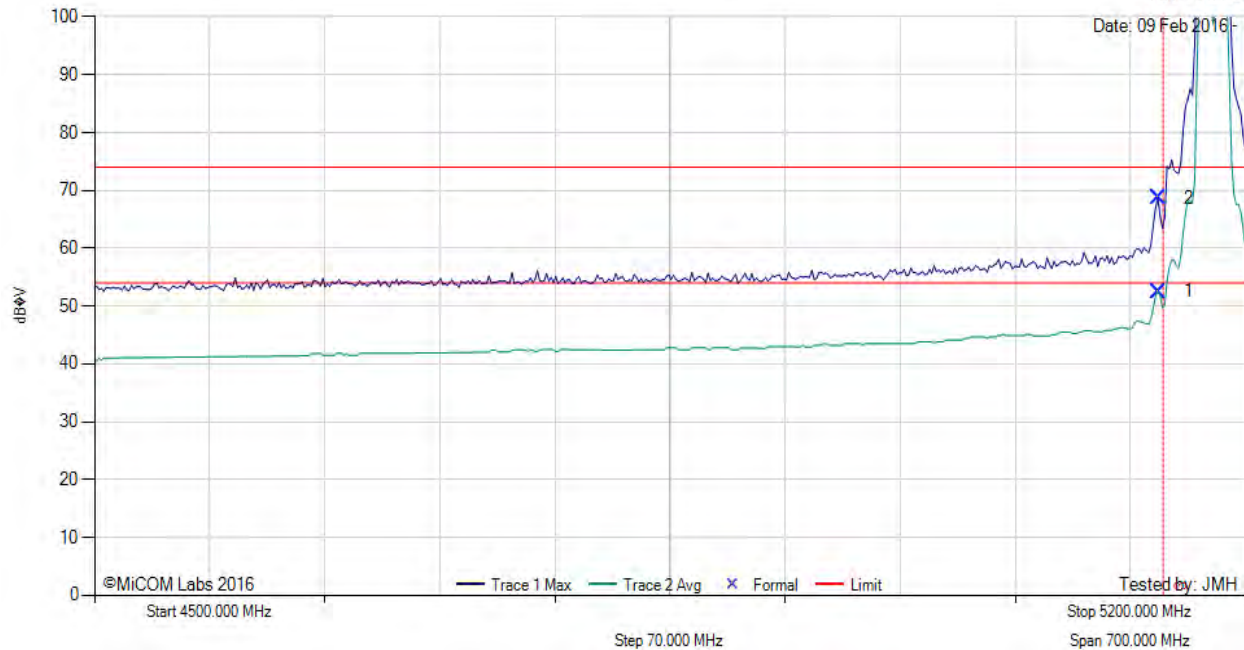
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 09 Feb 2016



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5147.19	14.75	3.68	34.11	52.54	Max Avg	Vertical	151	8	54.0	-1.5	Pass
2	5147.19	30.86	3.68	34.11	68.65	Max Peak	Vertical	151	8	74.0	-5.4	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5190.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 15.5

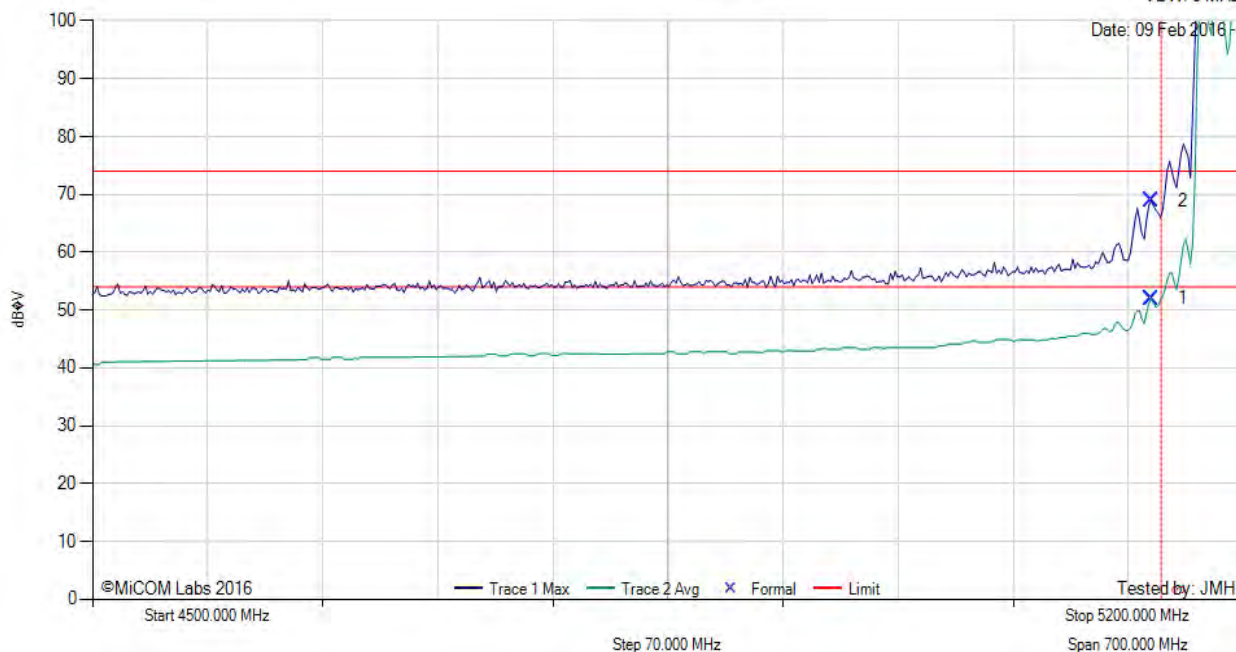
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 09 Feb 2016



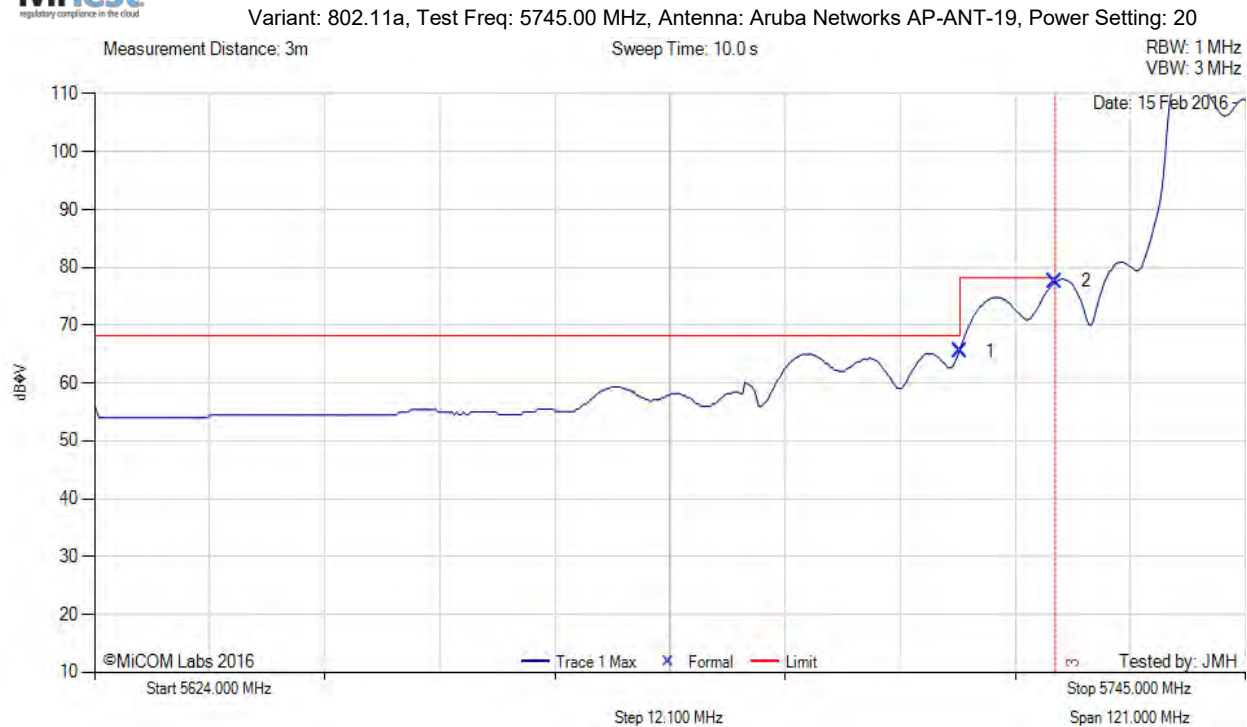
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5144.39	14.17	3.70	34.12	51.99	Max Avg	Vertical	151	8	54.0	-2.0	Pass
2	5144.39	31.02	3.70	34.12	68.84	Max Peak	Vertical	151	8	74.0	-5.2	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5715.00	27.41	3.81	34.34	65.56	Marker	Vertical	158	350	68.2	-2.7	Pass
2	5725.00	39.44	3.79	34.35	77.58	Marker	Vertical	158	350	78.2	-0.7	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

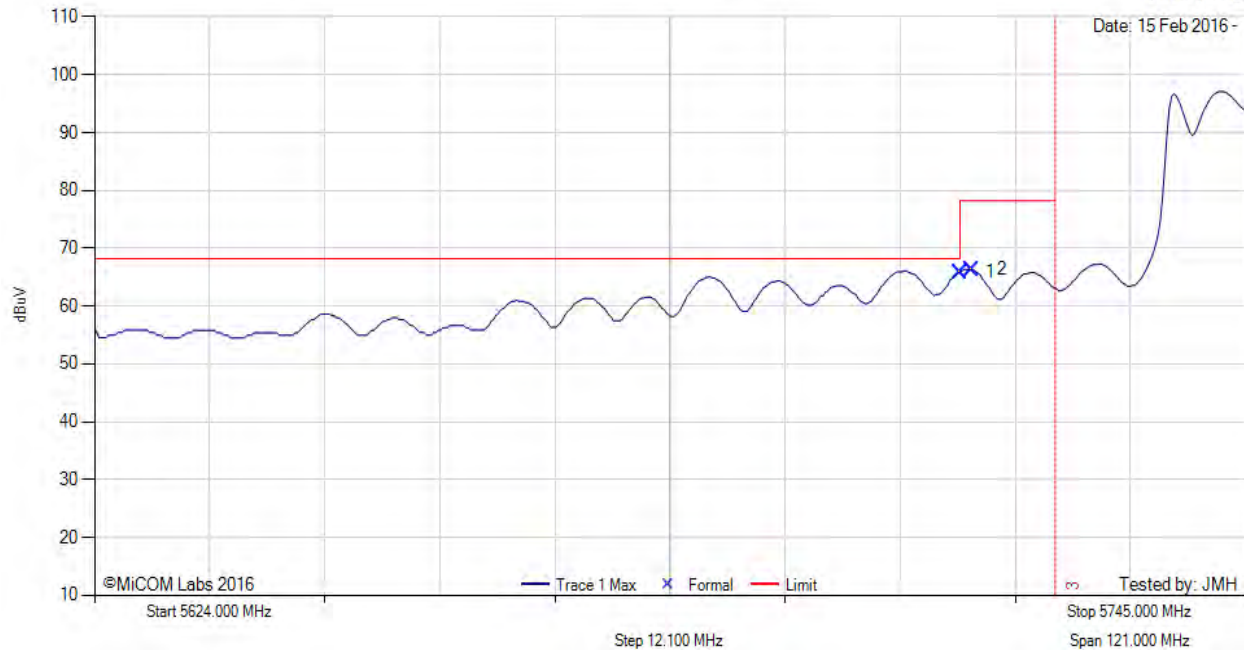
Variant: 802.11ac-80, Test Freq: 5775.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 16.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 15 Feb 2016 -



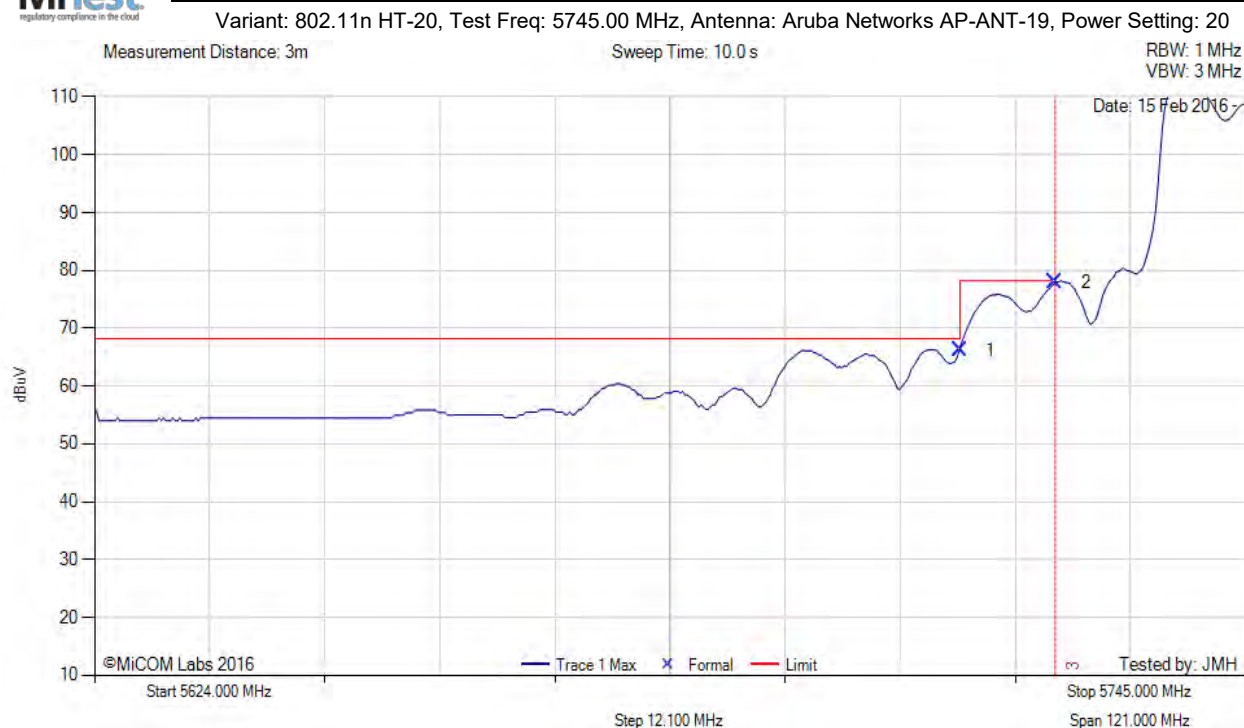
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	27.68	3.81	34.34	65.83	Marker	Vertical	158	350	68.2	-2.4	Pass
2	5716.27	28.20	3.81	34.34	66.35	Marker	Vertical	158	350	78.2	-11.9	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	28.07	3.81	34.34	66.22	Marker	Vertical	158	350	68.2	-2.0	Pass
2	5725.00	39.81	3.79	34.35	77.95	Marker	Vertical	158	350	78.2	-0.3	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5755.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 17.5

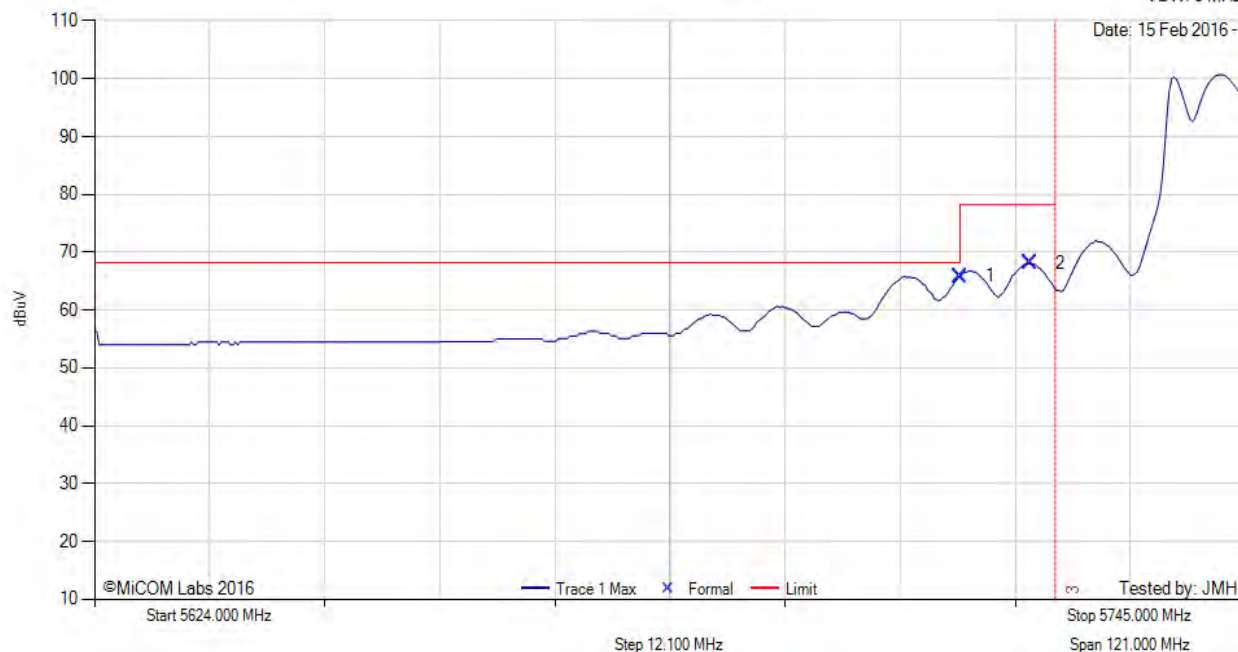
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 15 Feb 2016 -



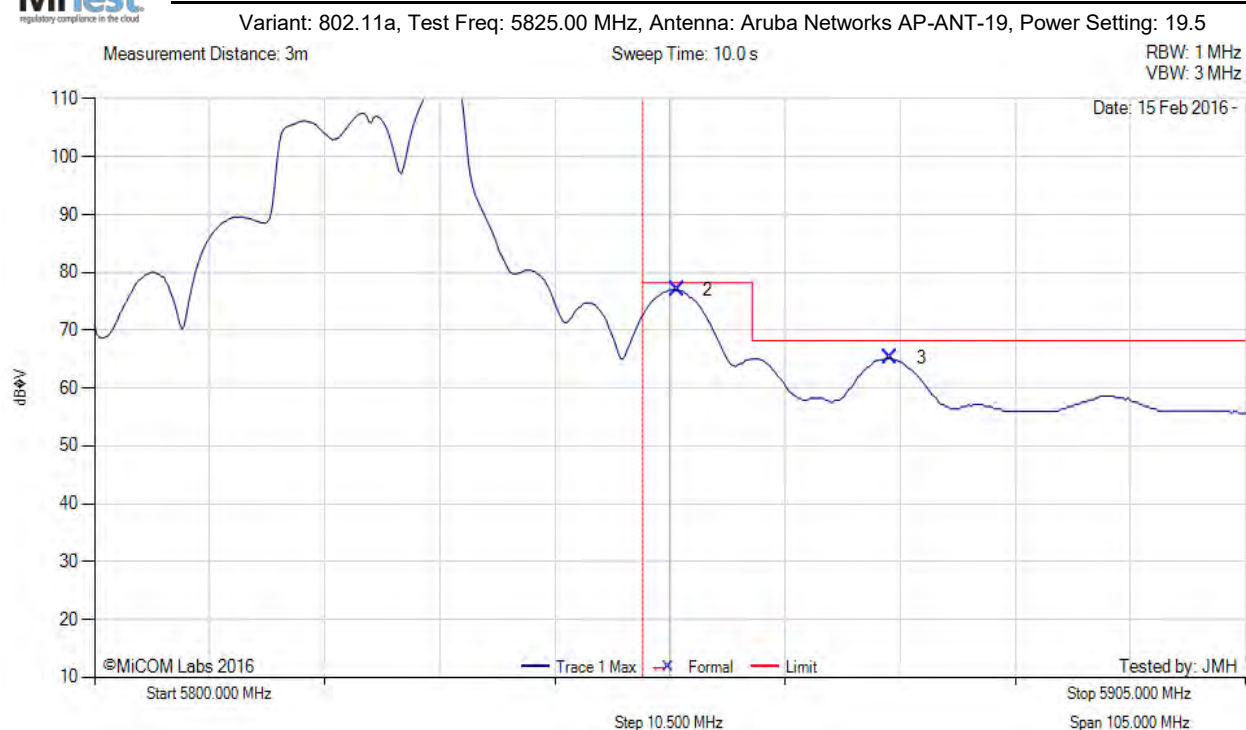
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	27.68	3.81	34.34	65.83	Marker	Vertical	158	350	68.2	-2.4	Pass
2	5722.33	29.92	3.80	34.35	68.07	Marker	Vertical	158	350	78.2	-10.2	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5853.16	38.52	3.82	34.63	76.97	Marker	Vertical	145	-4	78.2	-1.3	Pass
3	5872.63	26.74	3.80	34.69	65.23	Marker	Vertical	145	-4	68.2	-3.0	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11ac-80, Test Freq: 5775.00 MHz, Antenna: Aruba Networks AP-ANT-19, Power Setting: 16

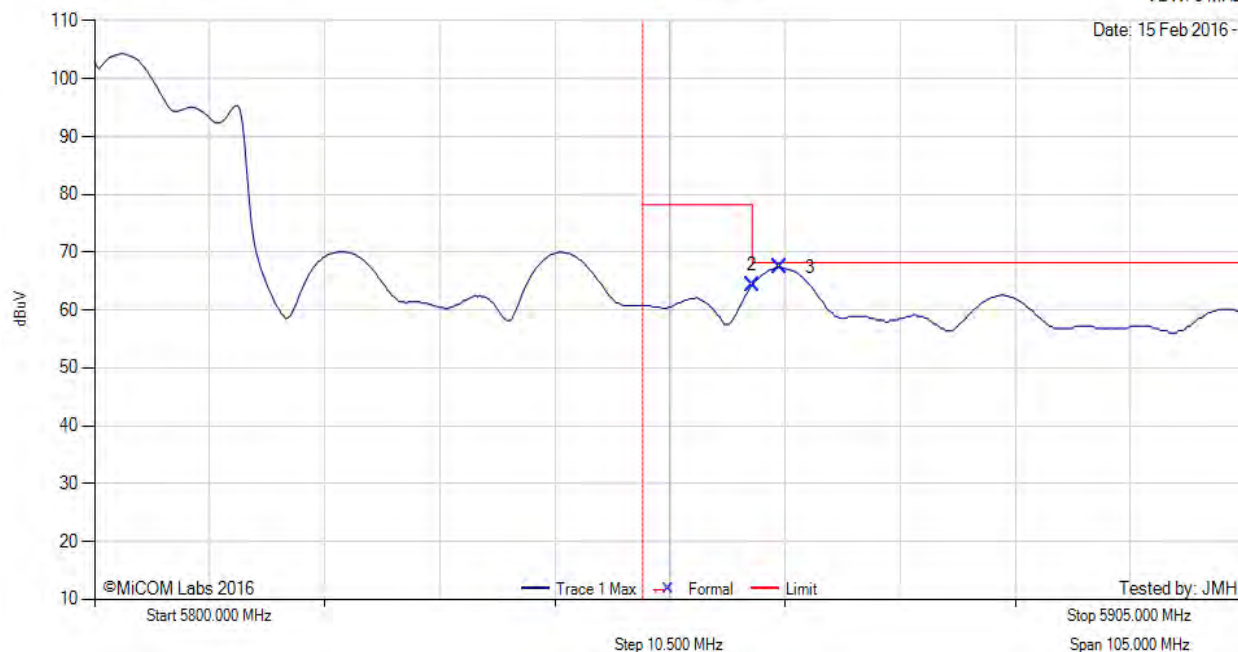
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 15 Feb 2016 -



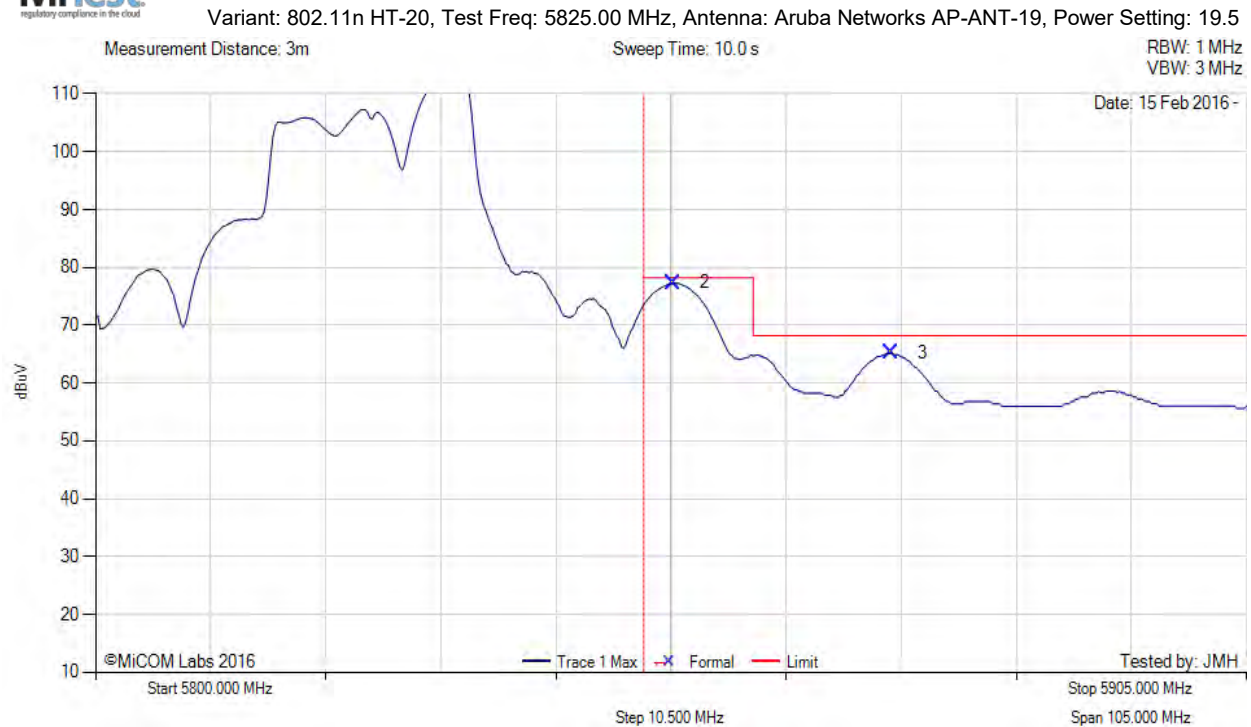
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5859.99	25.75	3.86	34.65	64.26	Marker	Vertical	145	-4	78.2	-14.0	Pass
3	5862.53	28.94	3.85	34.66	67.45	Marker	Vertical	145	-4	68.2	-0.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



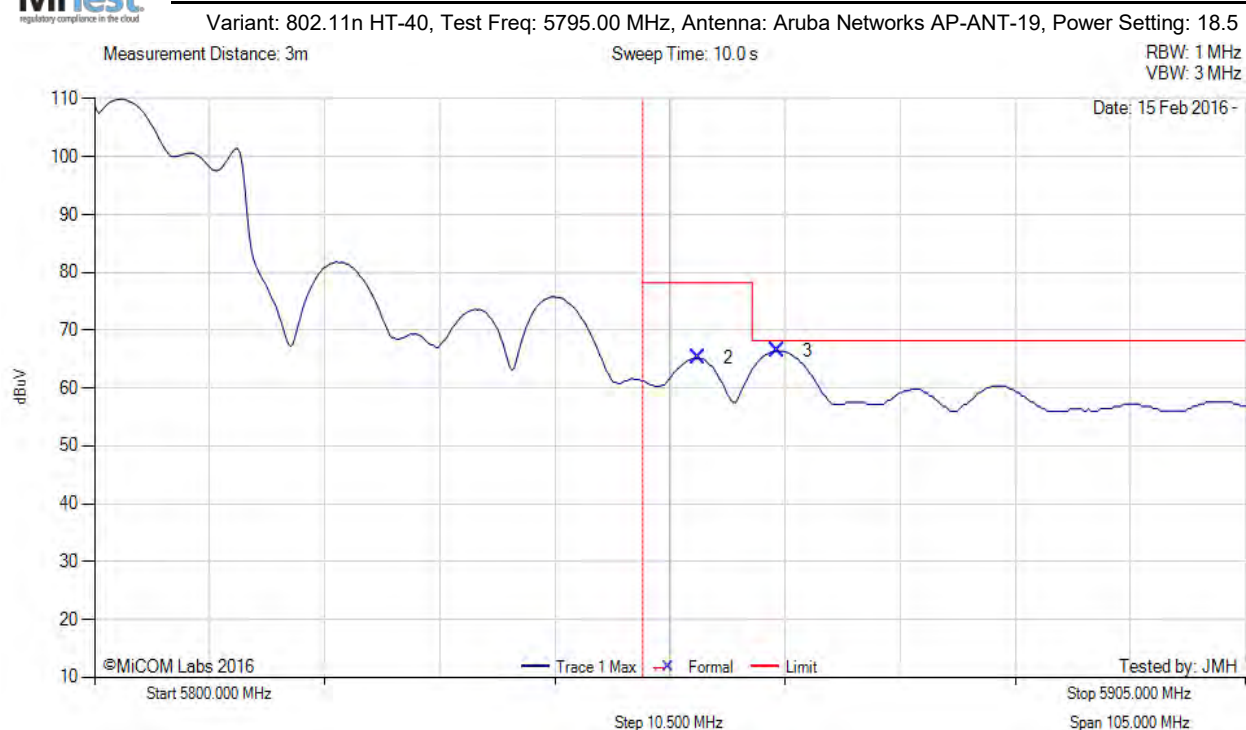
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2	5852.74	38.89	3.82	34.63	77.34	Marker	Vertical	145	-4	78.2	-0.9	Pass
3	5872.63	26.74	3.80	34.69	65.23	Marker	Vertical	145	-4	68.2	-3.0	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2	5855.05	26.73	3.83	34.64	65.20	Marker	Vertical	145	-4	78.2	-13.0	Pass
3	5862.31	27.96	3.85	34.66	66.47	Marker	Vertical	145	-4	68.2	-1.8	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

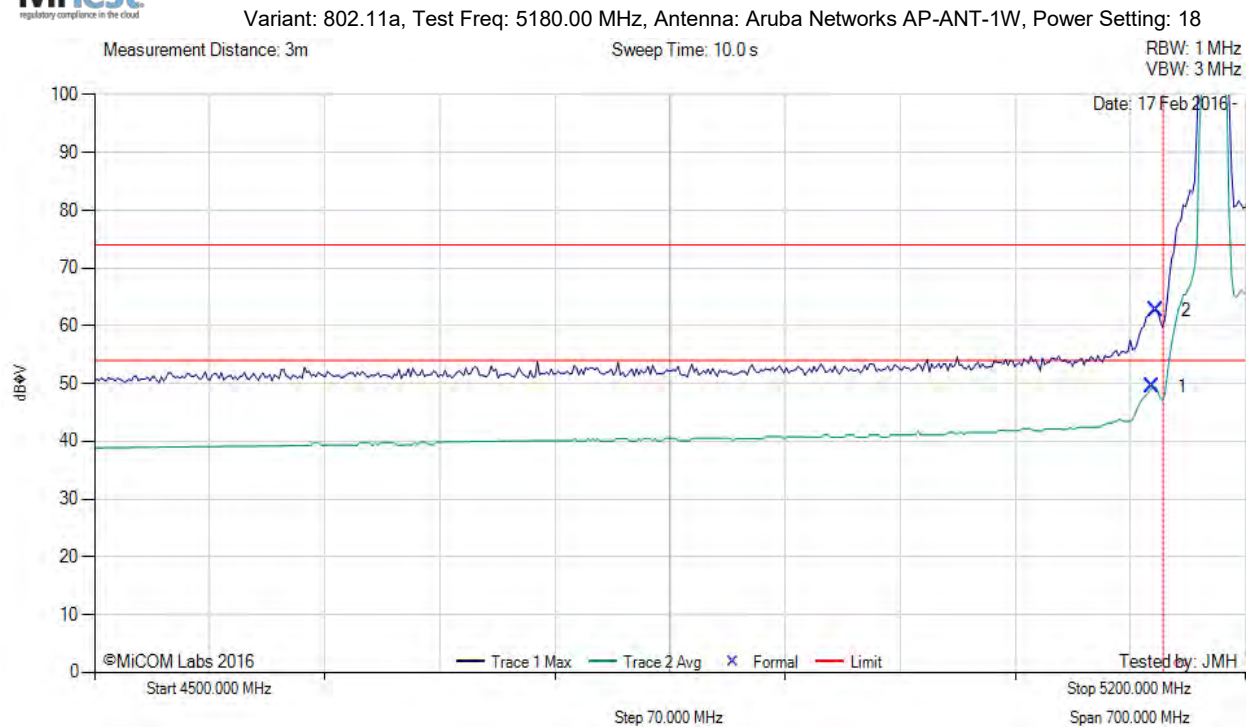
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

A.1.2.11. AP-ANT-1W



RESTRICTED LOWER BAND-EDGE EMISSIONS



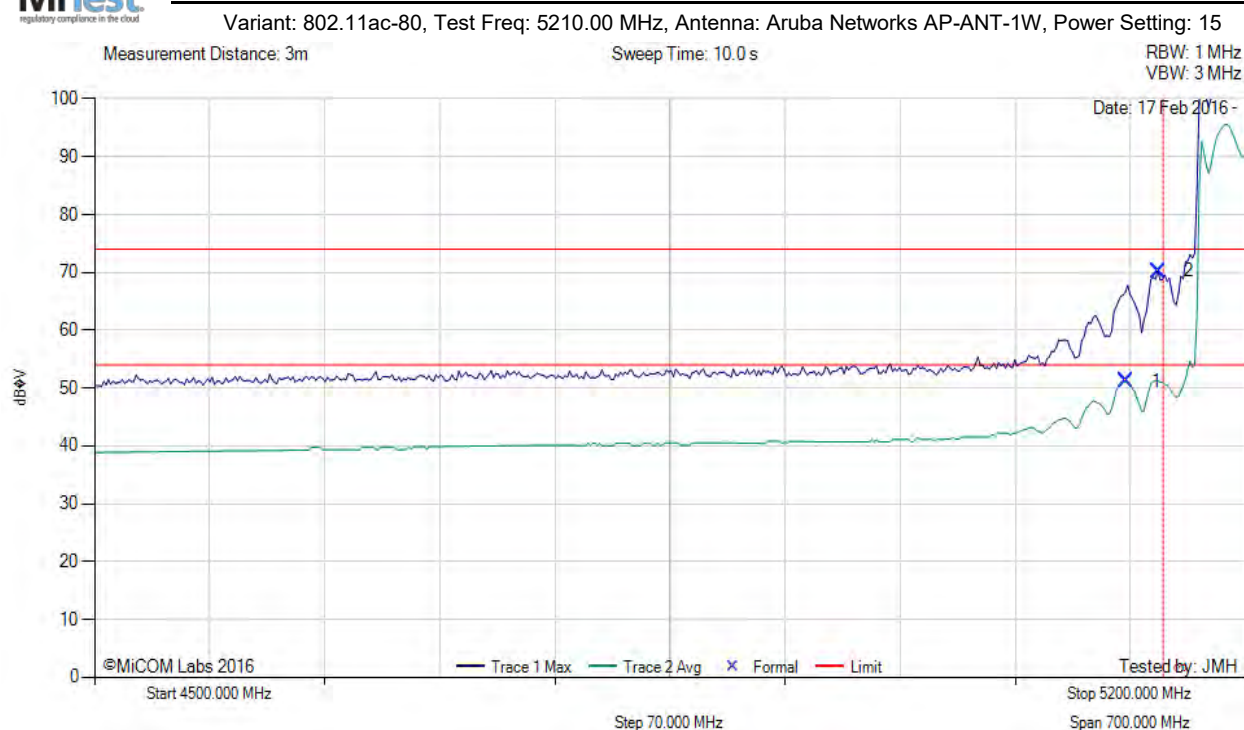
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5143.29	11.71	3.70	34.12	49.53	Max Avg	Horizontal	173	337	54.0	-4.5	Pass
2	5145.79	24.92	3.69	34.11	62.72	Max Peak	Horizontal	173	337	74.0	-11.3	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



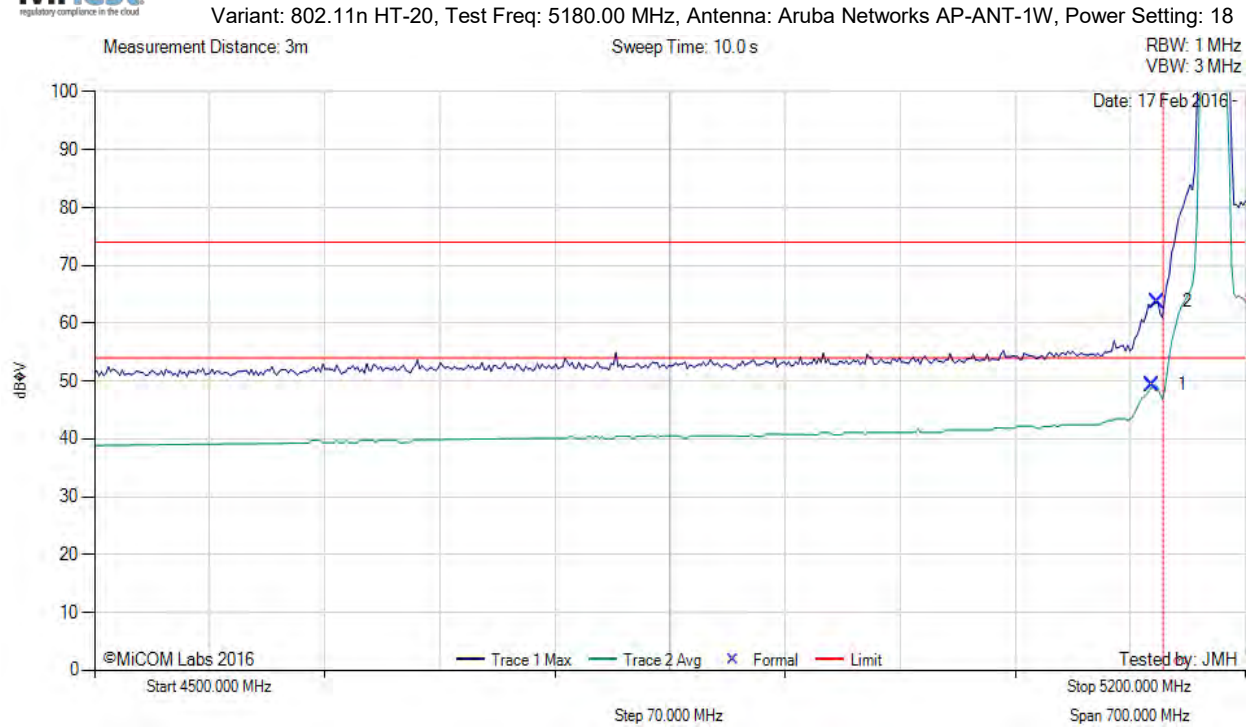
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5127.45	13.34	3.67	34.12	51.13	Max Avg	Horizontal	173	337	54.0	-2.9	Pass
2	5147.19	32.46	3.68	34.11	70.25	Max Peak	Horizontal	173	337	74.0	-3.8	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5143.39	11.55	3.70	34.12	49.37	Max Avg	Horizontal	173	337	54.0	-4.6	Pass
2	5146.49	25.97	3.69	34.11	63.77	Max Peak	Horizontal	173	337	74.0	-10.2	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5190.00 MHz, Antenna: Aruba Networks AP-ANT-1W, Power Setting: 16.5

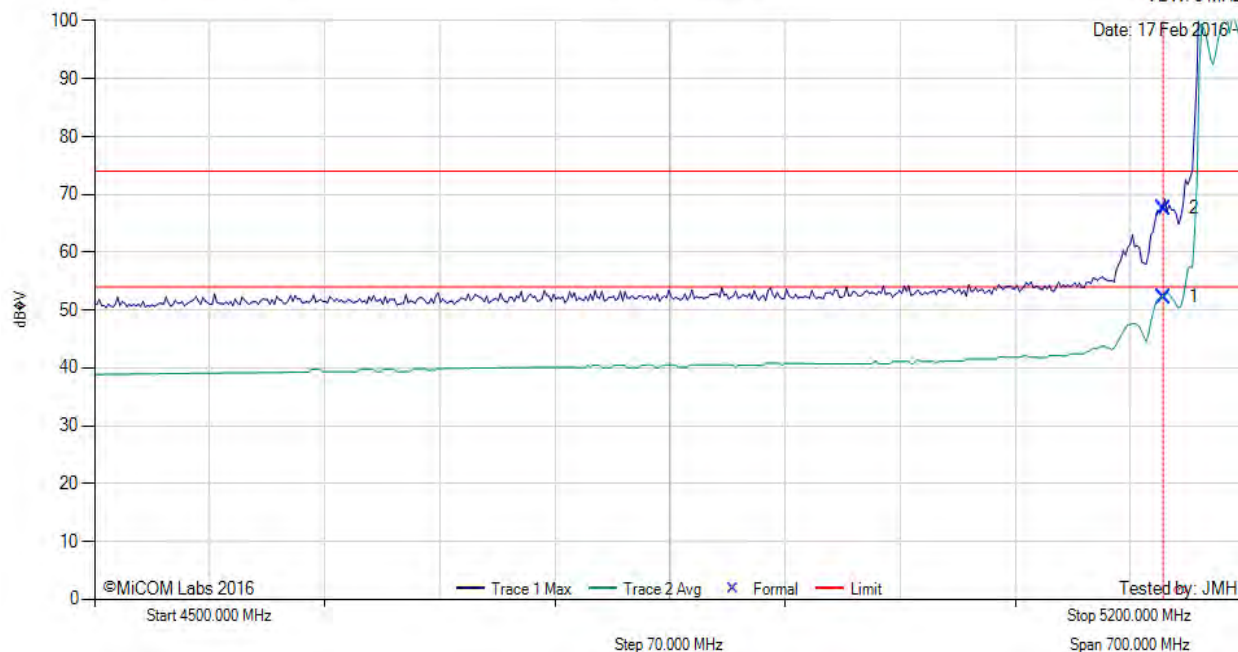
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 17 Feb 2016



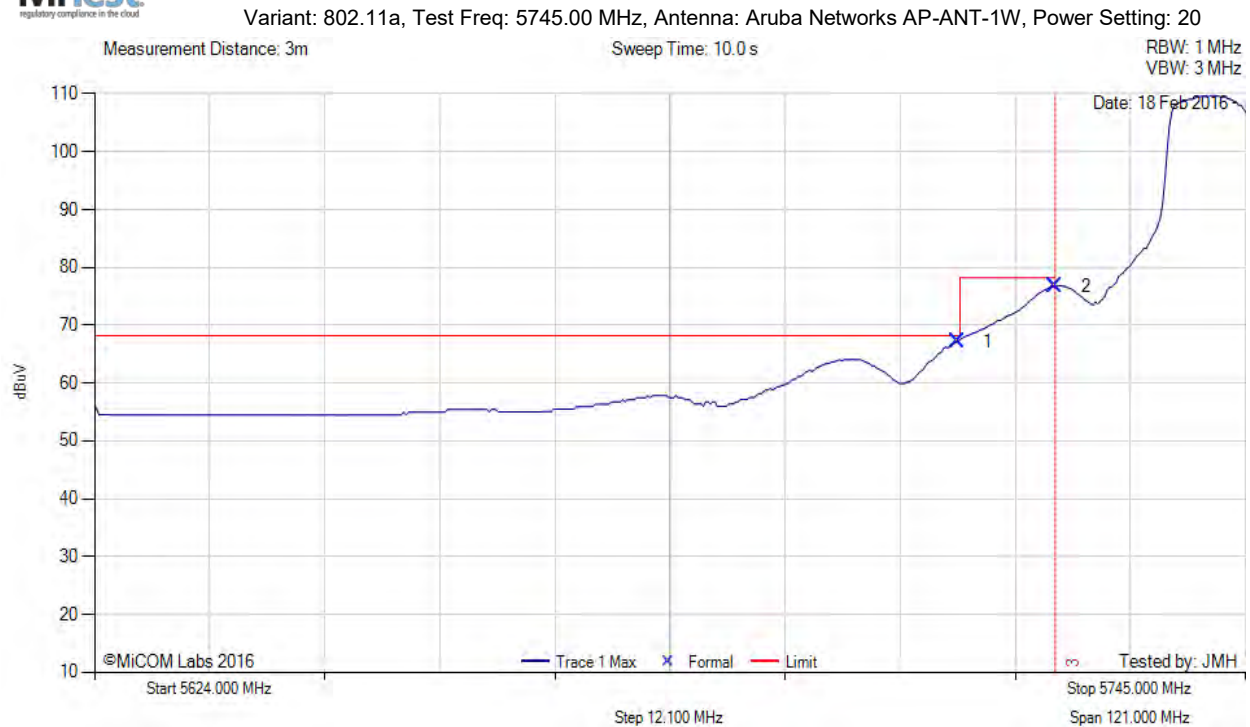
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	14.44	3.67	34.11	52.22	Max Avg	Horizontal	173	337	54.0	-1.8	Pass
2	5150.00	29.83	3.67	34.11	67.61	Max Peak	Horizontal	173	337	74.0	-6.4	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



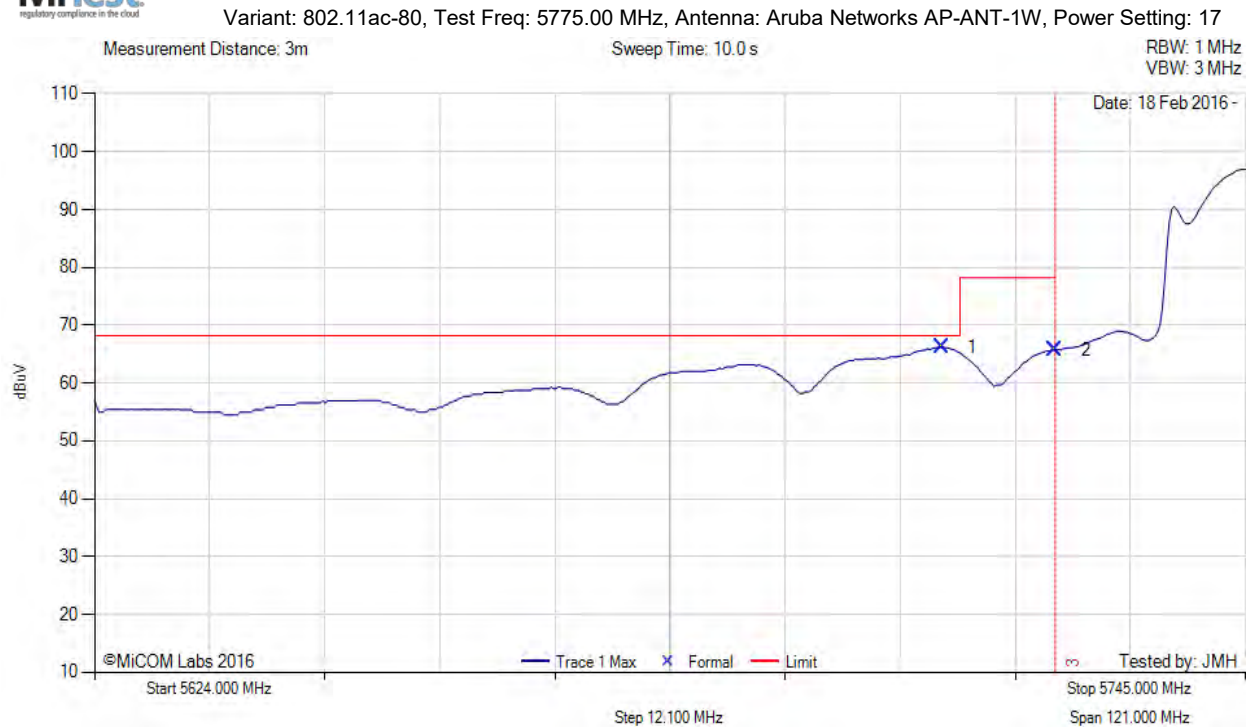
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5714.76	29.04	3.81	34.34	67.19	Marker	Horizontal	177	323	68.2	-1.0	Pass
2	5725.00	38.57	3.79	34.35	76.71	Marker	Horizontal	177	323	78.2	-1.5	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5713.06	28.06	3.82	34.34	66.22	Marker	Horizontal	177	323	68.2	-2.0	Pass
2	5725.00	27.57	3.79	34.35	65.71	Marker	Horizontal	177	323	78.2	-12.5	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

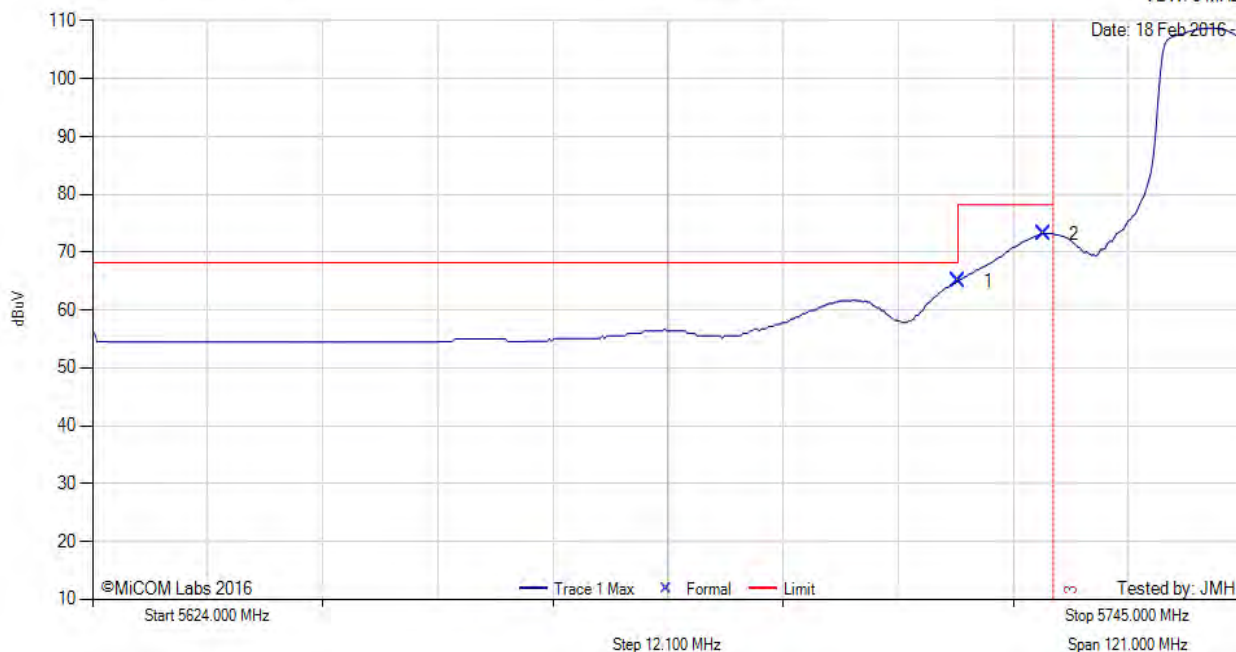
Variant: 802.11n HT-20, Test Freq: 5745.00 MHz, Antenna: Aruba Networks AP-ANT-1W, Power Setting: 19.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz



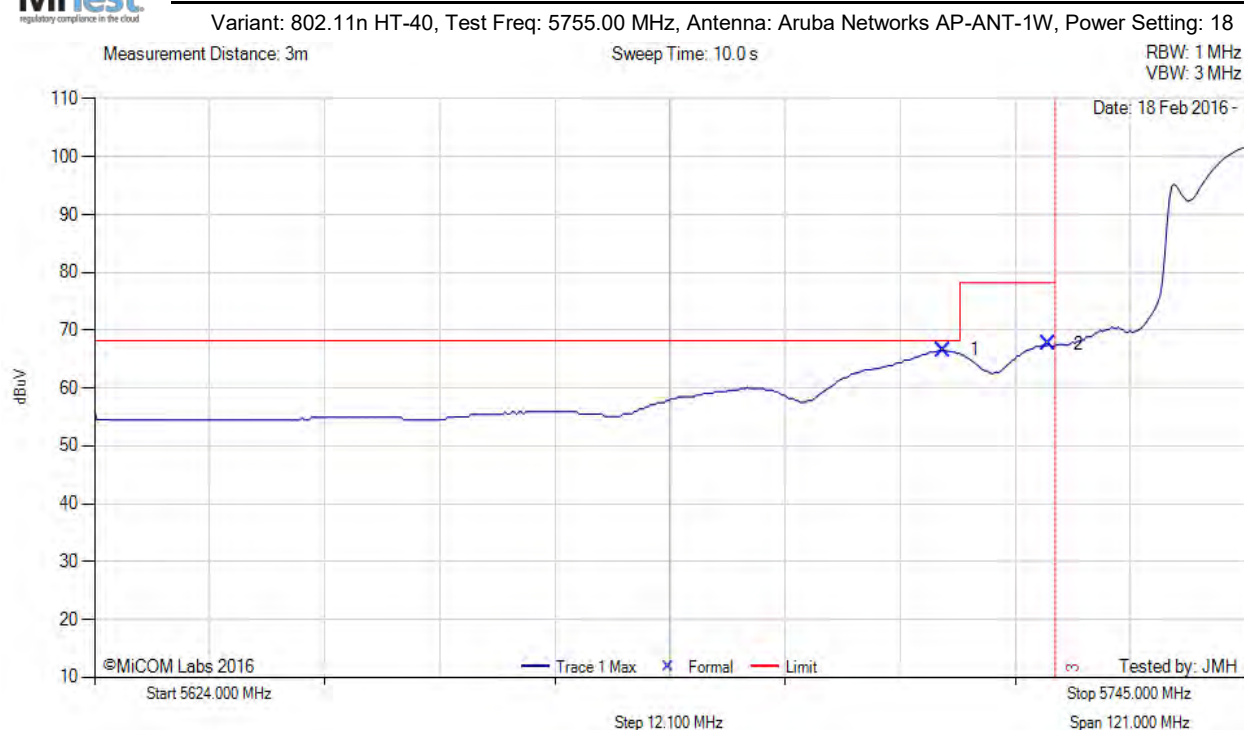
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	26.84	3.81	34.34	64.99	Marker	Horizontal	177	323	68.2	-3.2	Pass
2	5724.03	35.08	3.79	34.35	73.22	Marker	Horizontal	177	323	78.2	-5.0	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



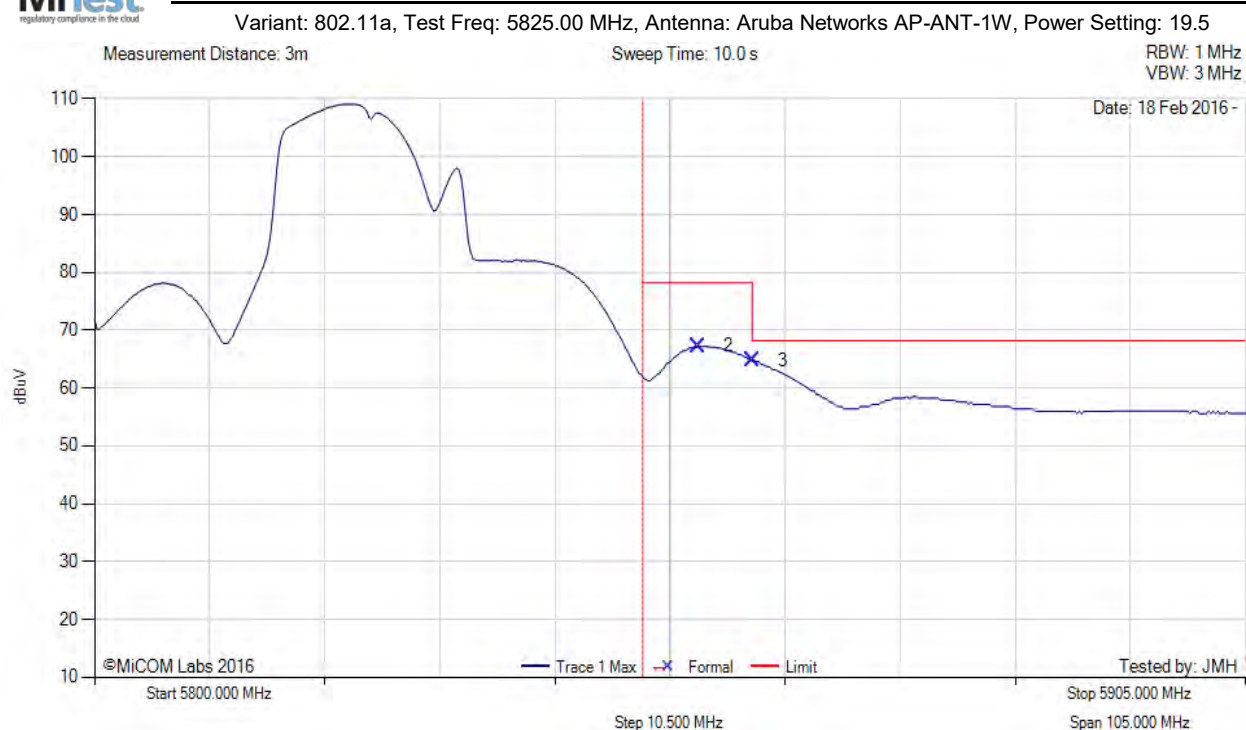
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5713.30	28.43	3.82	34.34	66.59	Marker	Horizontal	177	323	68.2	-1.6	Pass
2	5724.27	29.51	3.79	34.35	67.65	Marker	Horizontal	177	323	78.2	-10.6	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



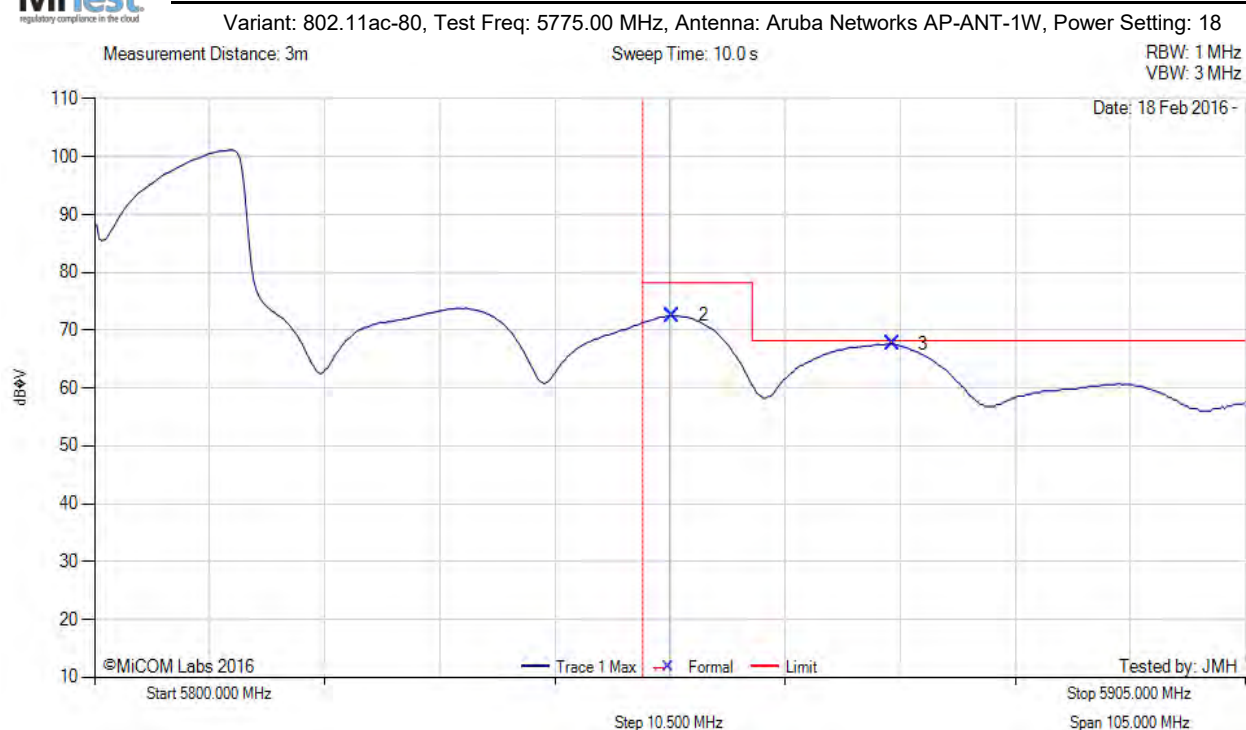
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2	5855.05	28.84	3.83	34.64	67.31	Marker	Horizontal	166	323	78.2	-10.9	Pass
3	5860.00	26.24	3.86	34.65	64.75	Marker	Horizontal	166	323	78.2	-13.5	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
2	5852.74	34.08	3.82	34.63	72.53	Marker	Horizontal	166	323	78.2	-5.7	Pass
3	5872.84	29.20	3.80	34.69	67.69	Marker	Horizontal	166	323	68.2	-0.5	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5825.00 MHz, Antenna: Aruba Networks AP-ANT-1W, Power Setting: 19.5

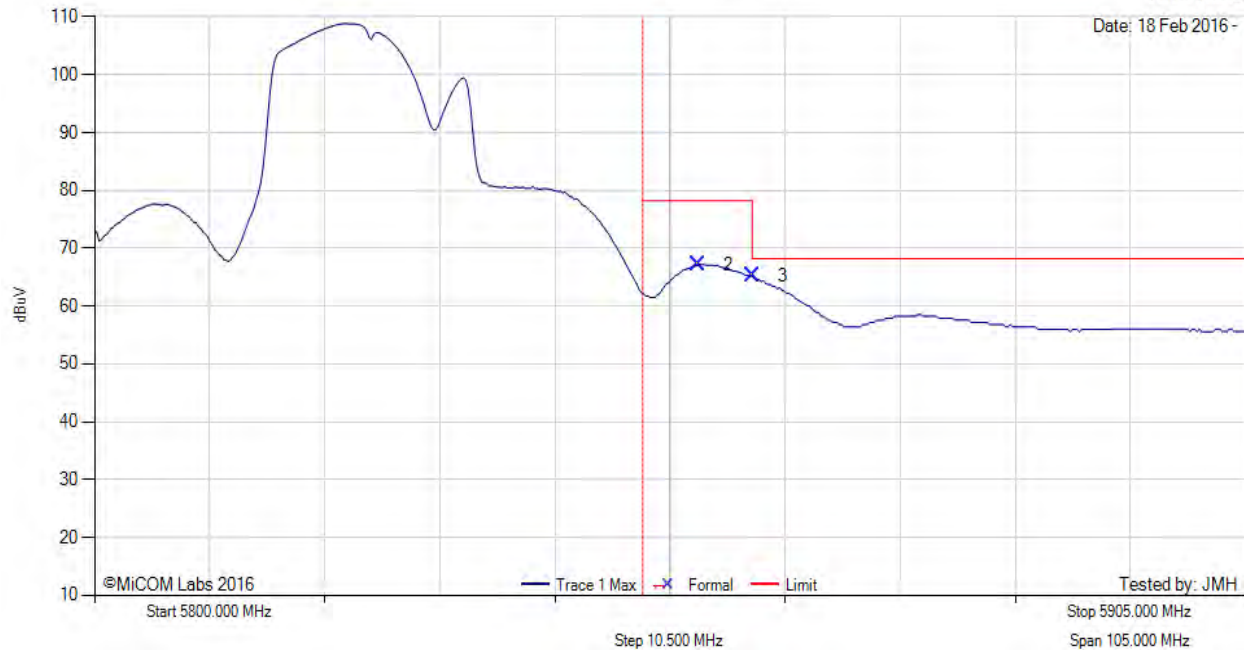
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 18 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2	5855.05	28.72	3.83	34.64	67.19	Marker	Horizontal	166	323	78.2	-11.0	Pass
3	5860.00	26.70	3.86	34.65	65.21	Marker	Horizontal	166	323	78.2	-13.0	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

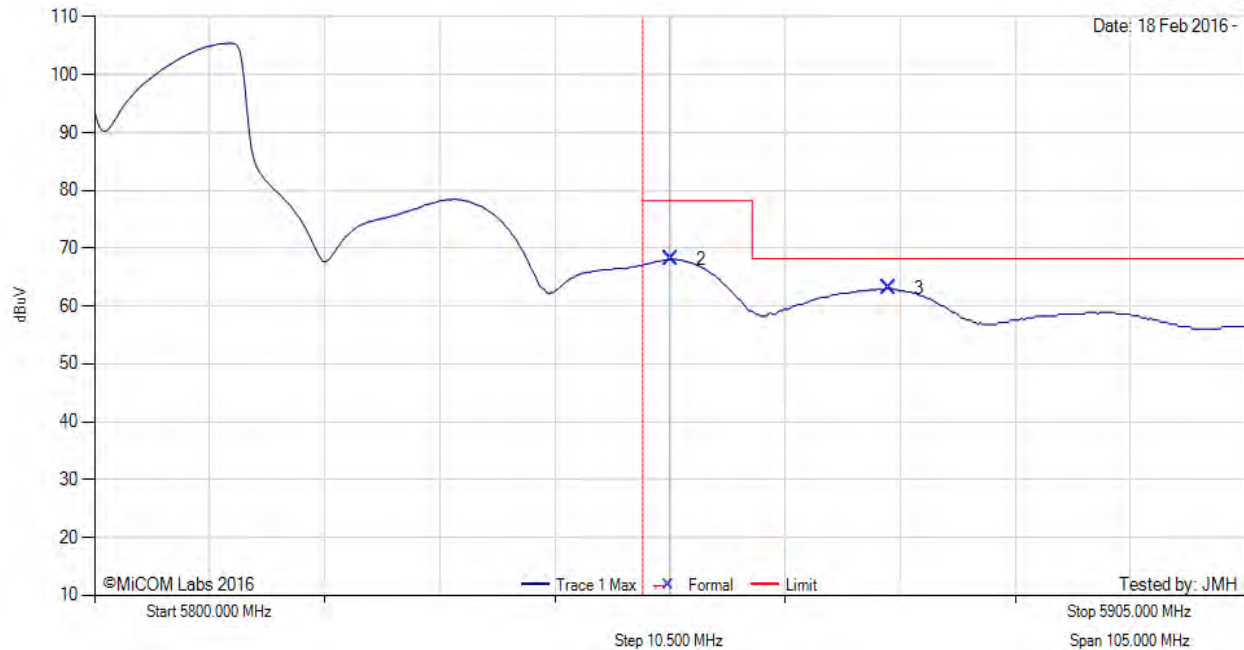
Variant: 802.11n HT-40, Test Freq: 5795.00 MHz, Antenna: Aruba Networks AP-ANT-1W, Power Setting: 19.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 18 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
2	5852.53	29.64	3.82	34.63	68.09	Marker	Horizontal	166	323	78.2	-10.1	Pass
3	5872.41	24.54	3.80	34.69	63.03	Marker	Horizontal	166	323	68.2	-5.2	Pass
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

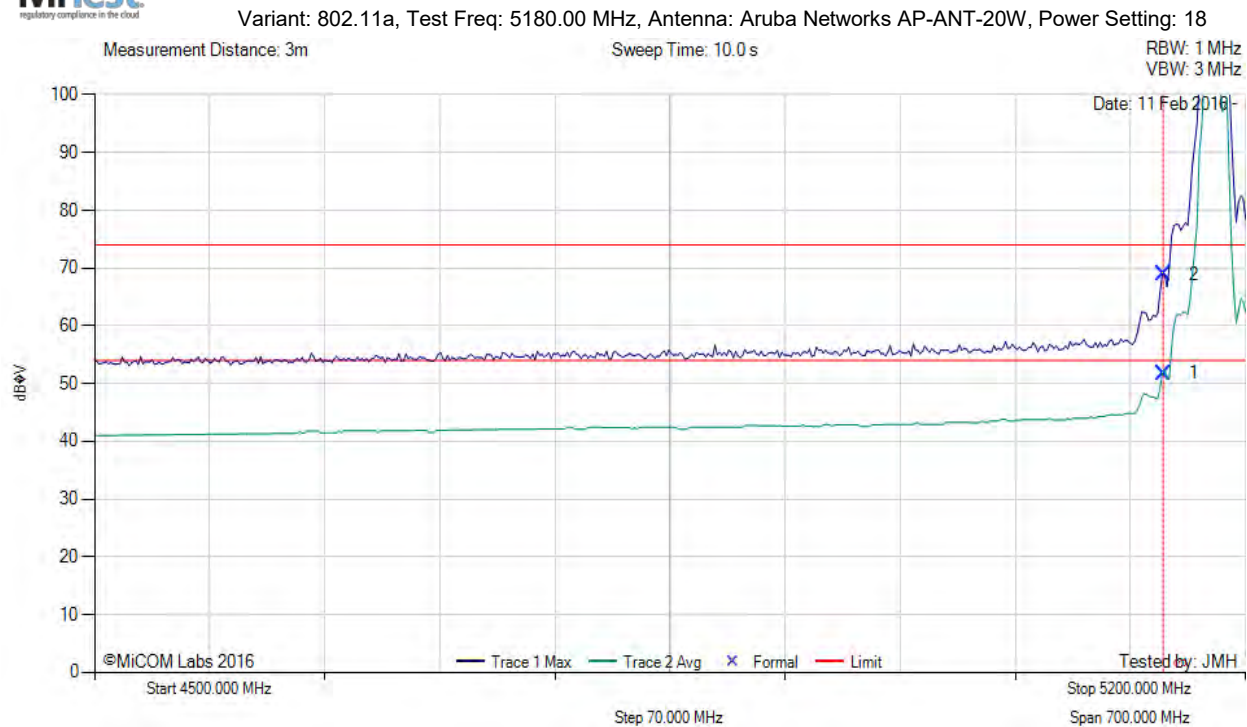
Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber.

[back to matrix](#)

A.1.2.12. AP-ANT-20W



RESTRICTED LOWER BAND-EDGE EMISSIONS



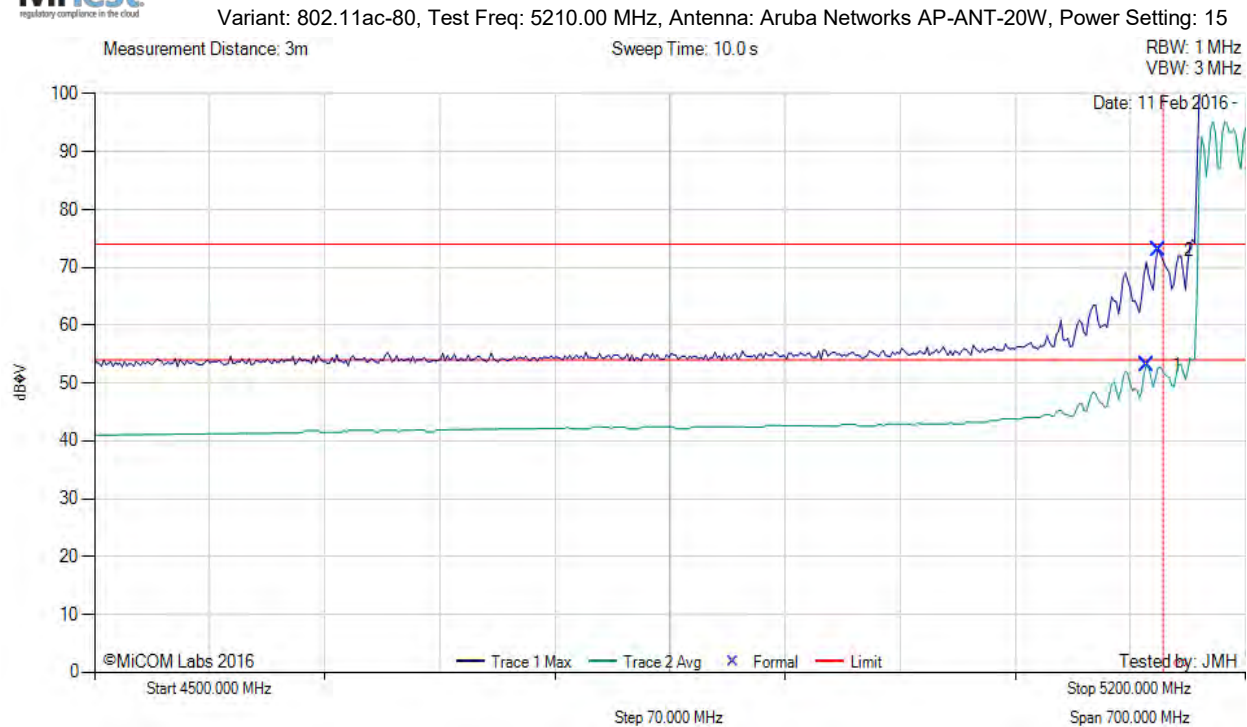
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	13.98	3.67	34.11	51.76	Max Avg	Vertical	160	15	54.0	-2.2	Pass
2	5150.00	31.20	3.67	34.11	68.98	Max Peak	Vertical	160	15	74.0	-5.0	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5140.18	15.22	3.70	34.12	53.04	Max Avg	Vertical	160	15	54.0	-1.0	Pass
2	5147.19	35.15	3.68	34.11	72.94	Max Peak	Vertical	160	15	74.0	-1.1	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 18

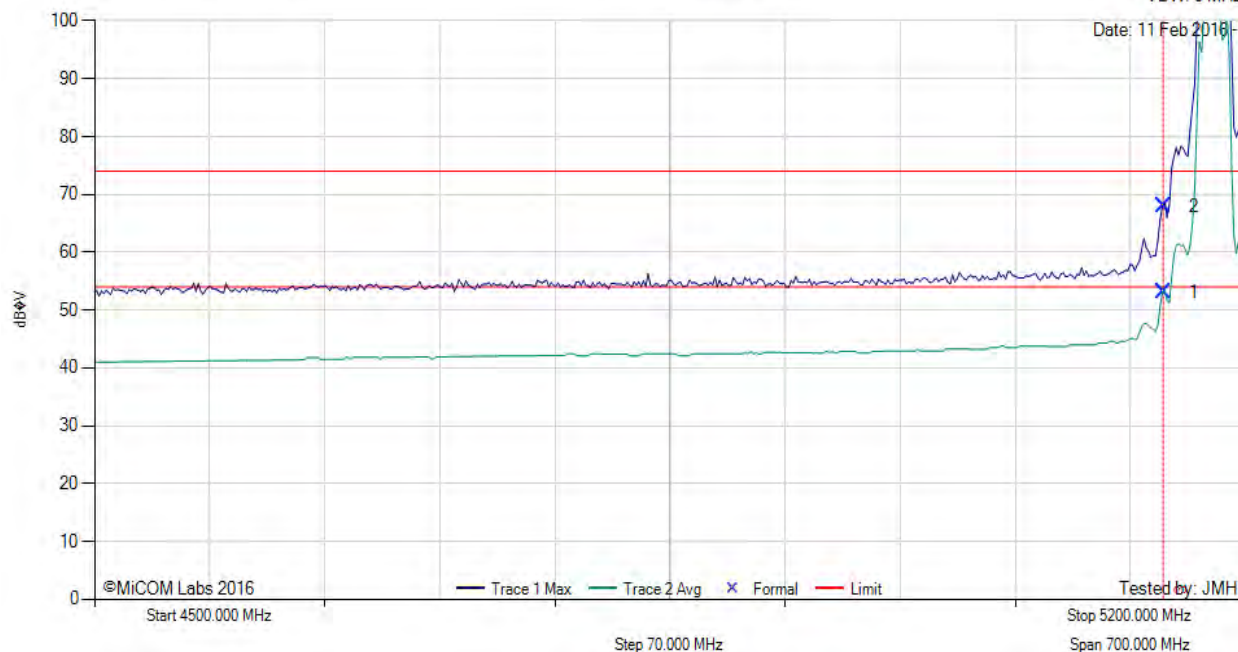
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	15.27	3.67	34.11	53.05	Max Avg	Vertical	160	15	54.0	-1.0	Pass
2	5150.00	30.13	3.67	34.11	67.91	Max Peak	Vertical	160	15	74.0	-6.1	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5190.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 16.5

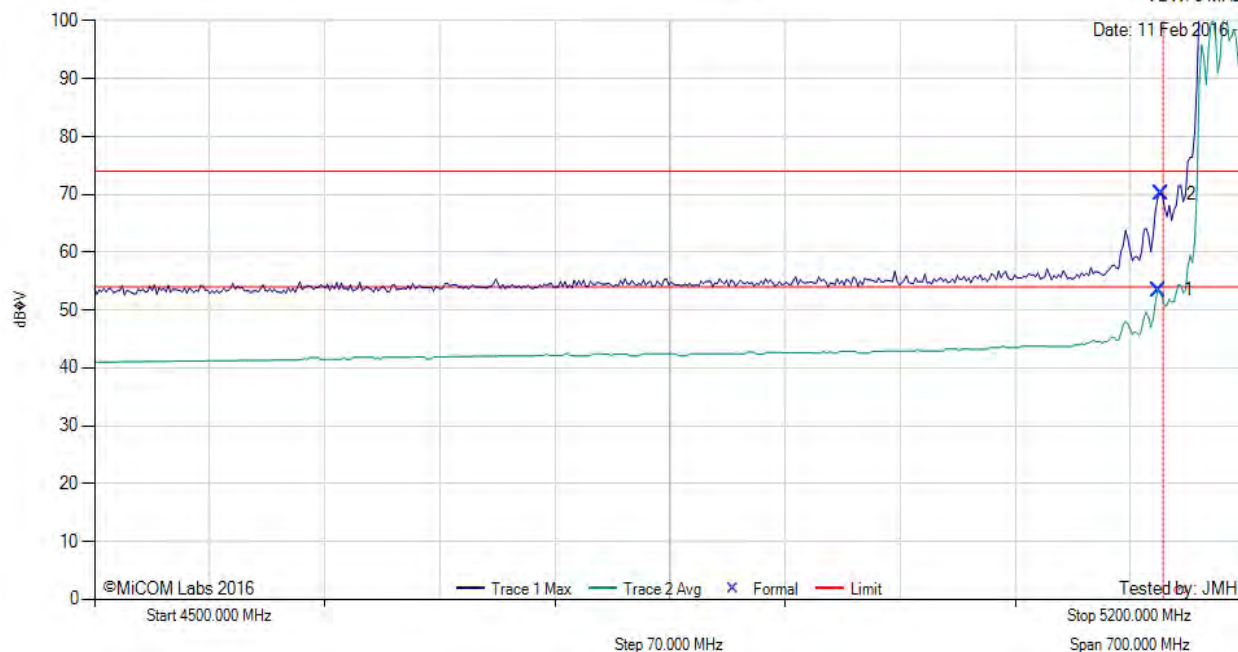
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5147.19	15.65	3.68	34.11	53.44	Max Avg	Vertical	160	15	54.0	-0.6	Pass
2	5148.60	32.32	3.67	34.11	70.10	Max Peak	Vertical	160	15	74.0	-3.9	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

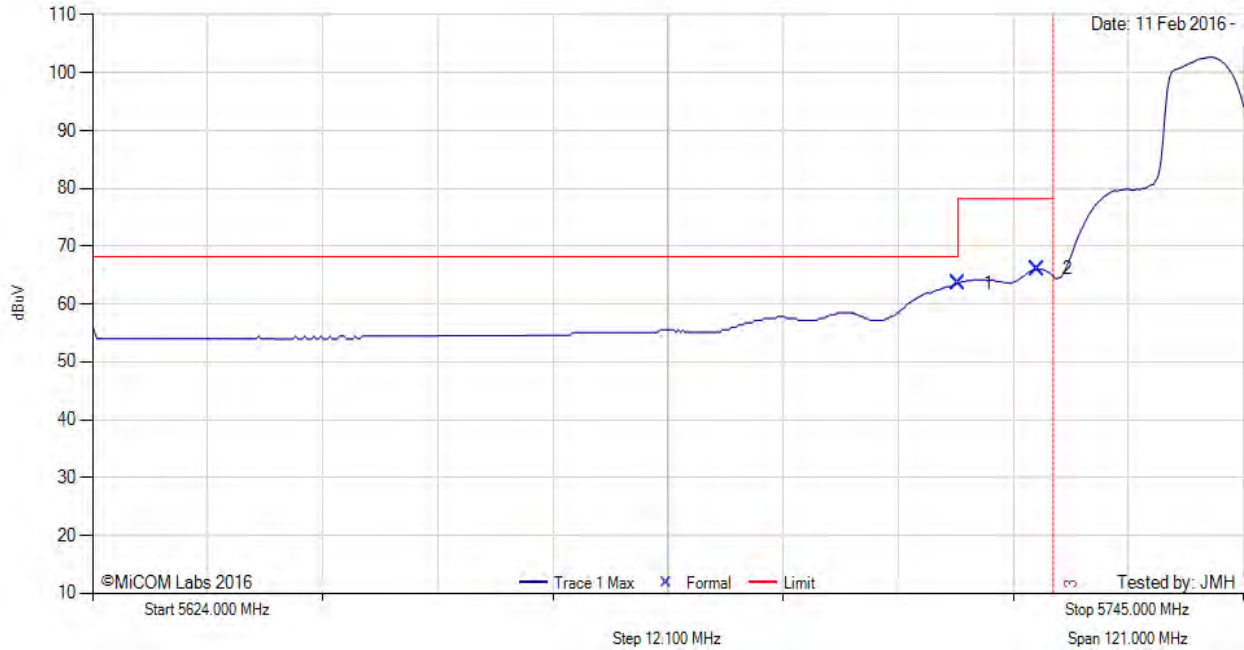
Variant: 802.11a, Test Freq: 5745.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 20

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 11 Feb 2016 -



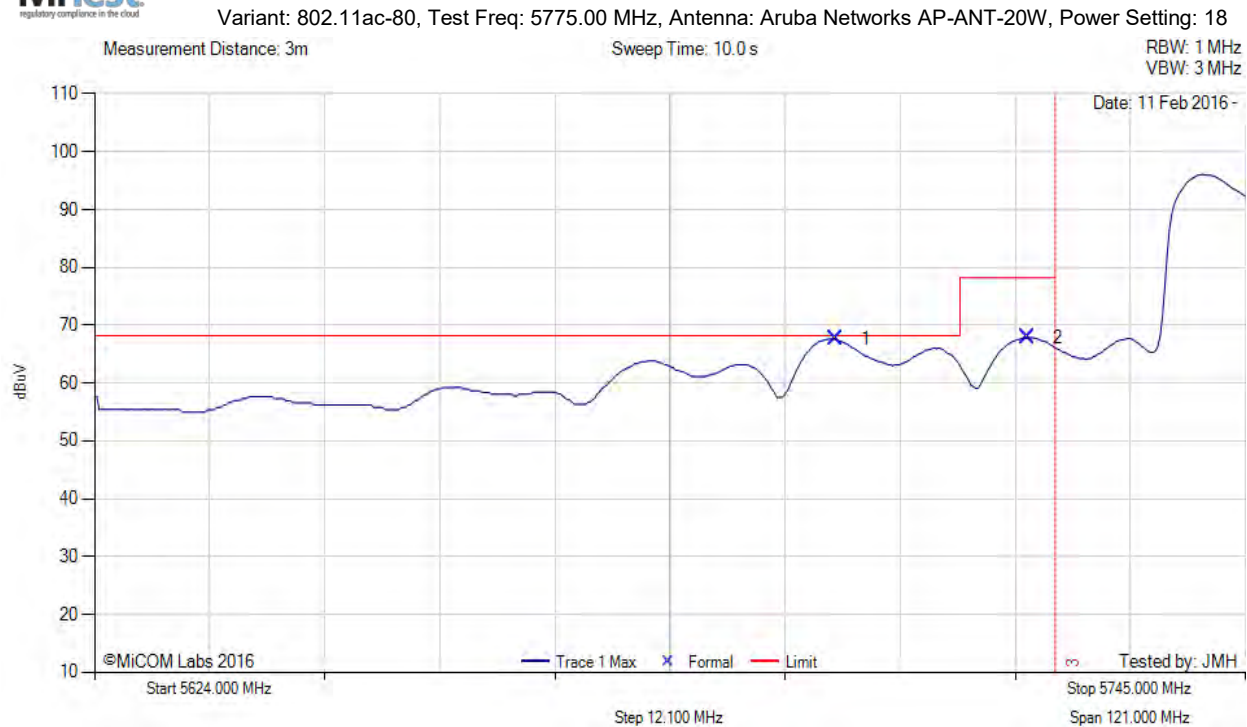
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	25.40	3.81	34.34	63.55	Marker	Vertical	167	332	68.2	-4.7	Pass
2	5723.30	27.95	3.80	34.35	66.10	Marker	Vertical	167	332	78.2	-12.1	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5701.91	29.42	3.87	34.33	67.62	Marker	Vertical	168	332	68.2	-0.6	Pass
2	5722.09	29.71	3.80	34.35	67.86	Marker	Vertical	168	332	78.2	-10.4	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 260 of 320



5725 MHz RADIATED BAND-EDGE EMISSIONS

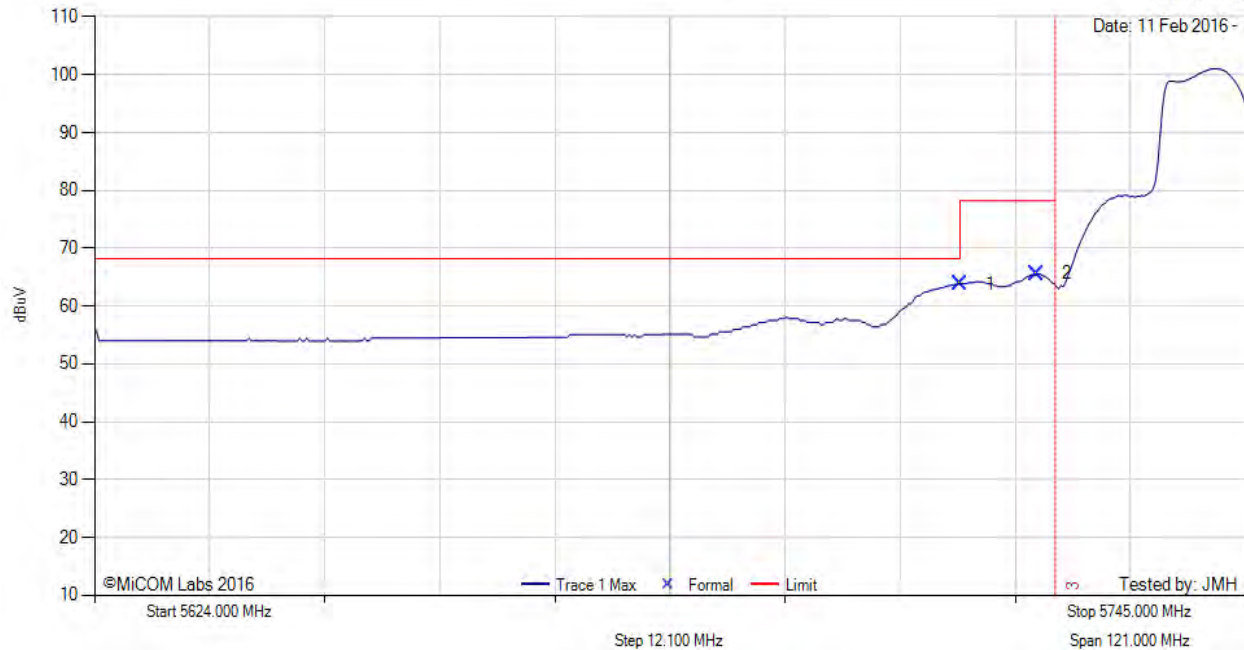
Variant: 802.11n HT-20, Test Freq: 5745.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 20

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 11 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	25.74	3.81	34.34	63.89	Marker	Vertical	168	332	68.2	-4.3	Pass
2	5723.06	27.42	3.80	34.35	65.57	Marker	Vertical	168	332	78.2	-12.7	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

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5725 MHz RADIATED BAND-EDGE EMISSIONS

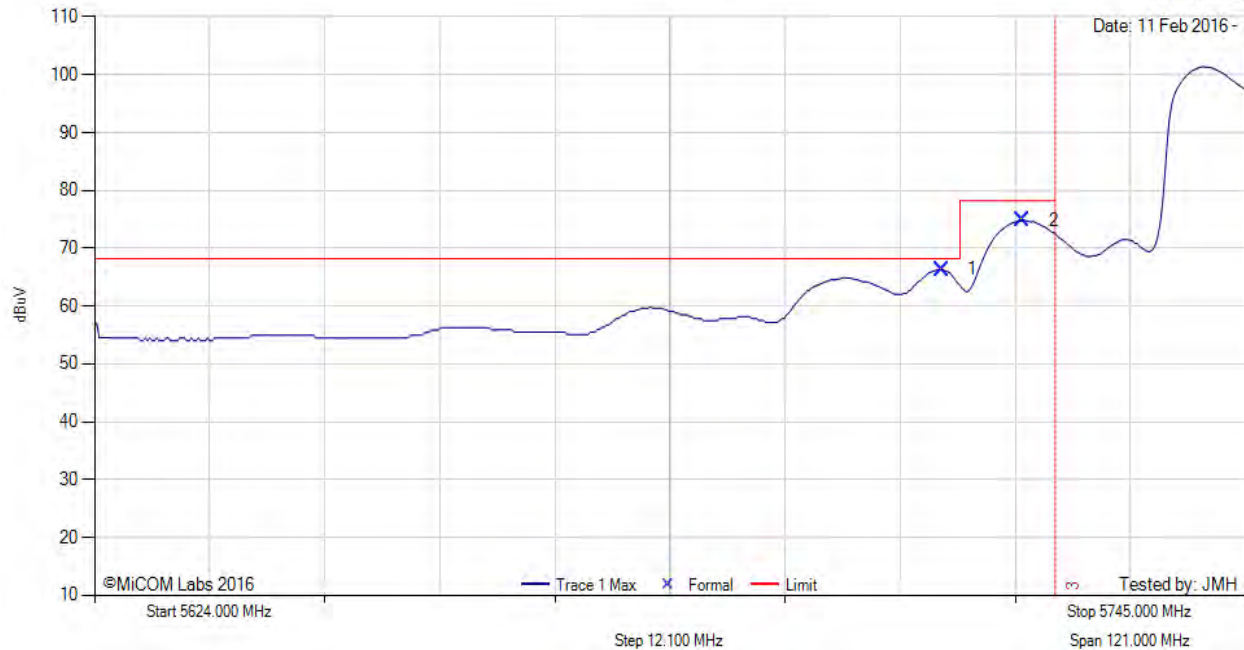
Variant: 802.11n HT-40, Test Freq: 5755.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 19.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 11 Feb 2016 -



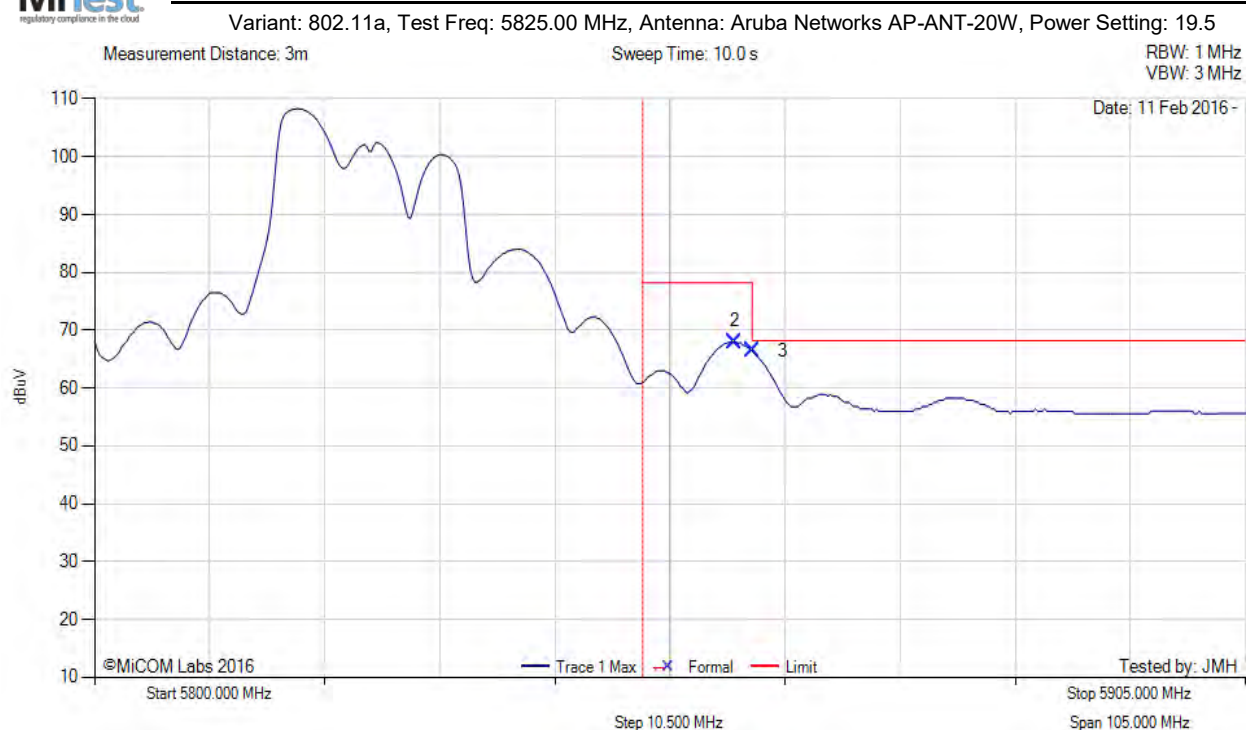
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5713.06	28.18	3.82	34.34	66.34	Marker	Vertical	168	332	68.2	-1.9	Pass
2	5721.61	36.73	3.80	34.35	74.88	Marker	Vertical	168	332	78.2	-3.4	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



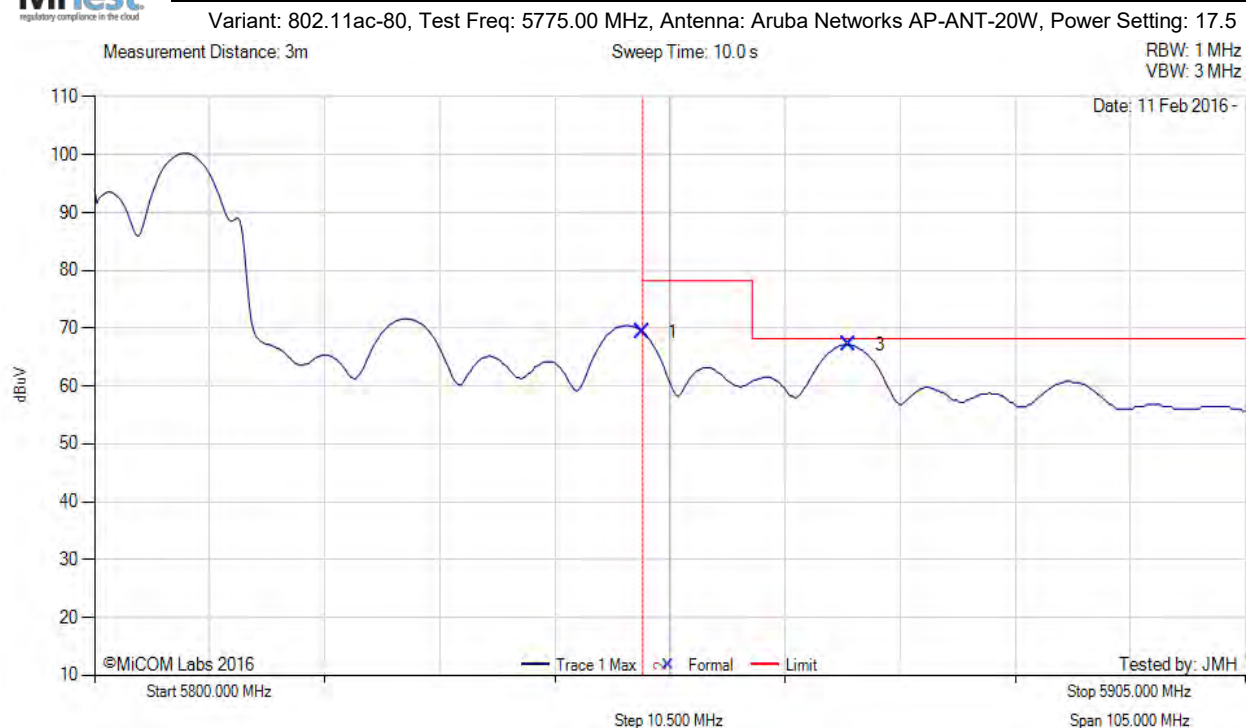
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5858.42	29.50	3.85	34.65	68.00	Marker	Vertical	199	23	78.2	-10.2	Pass
3	5860.00	27.95	3.86	34.65	66.46	Marker	Vertical	199	23	78.2	-11.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	30.84	3.81	34.63	69.28	Marker	Vertical	199	23	78.2	-9.0	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5868.84	28.72	3.82	34.68	67.22	Marker	Vertical	199	23	68.2	-1.0	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5825.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 19.5

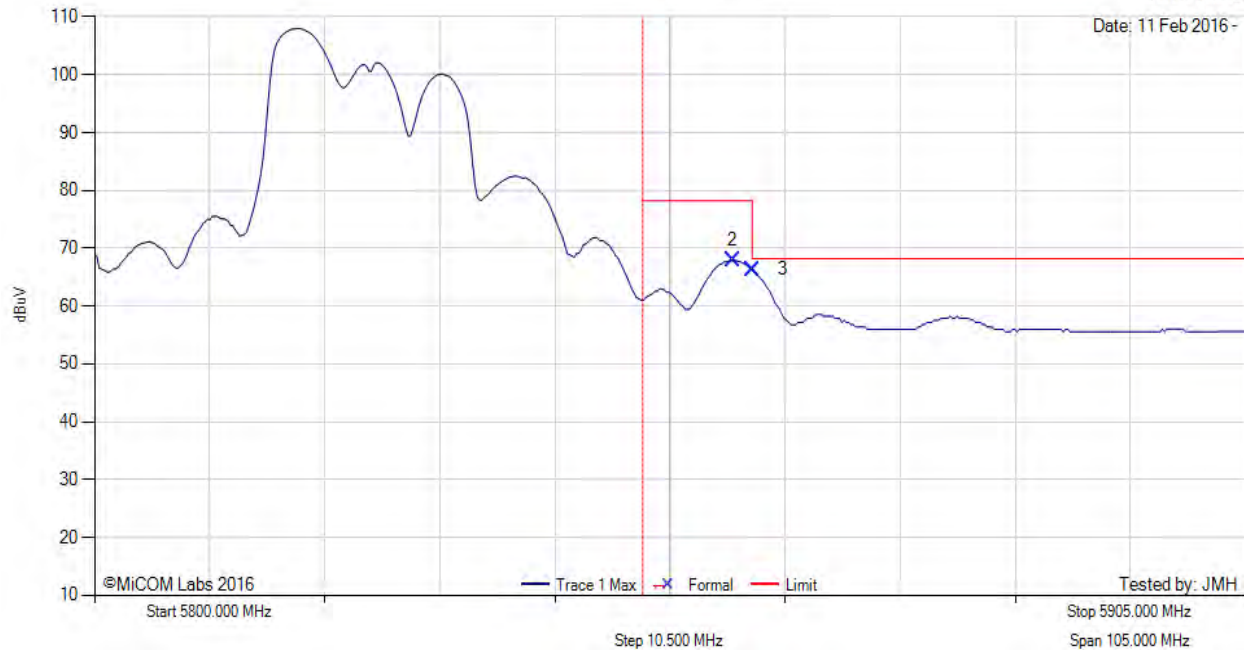
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5858.21	29.39	3.85	34.65	67.89	Marker	Vertical	199	23	78.2	-10.3	Pass
3	5860.00	27.82	3.86	34.65	66.33	Marker	Vertical	199	23	78.2	-11.9	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5795.00 MHz, Antenna: Aruba Networks AP-ANT-20W, Power Setting: 19.5

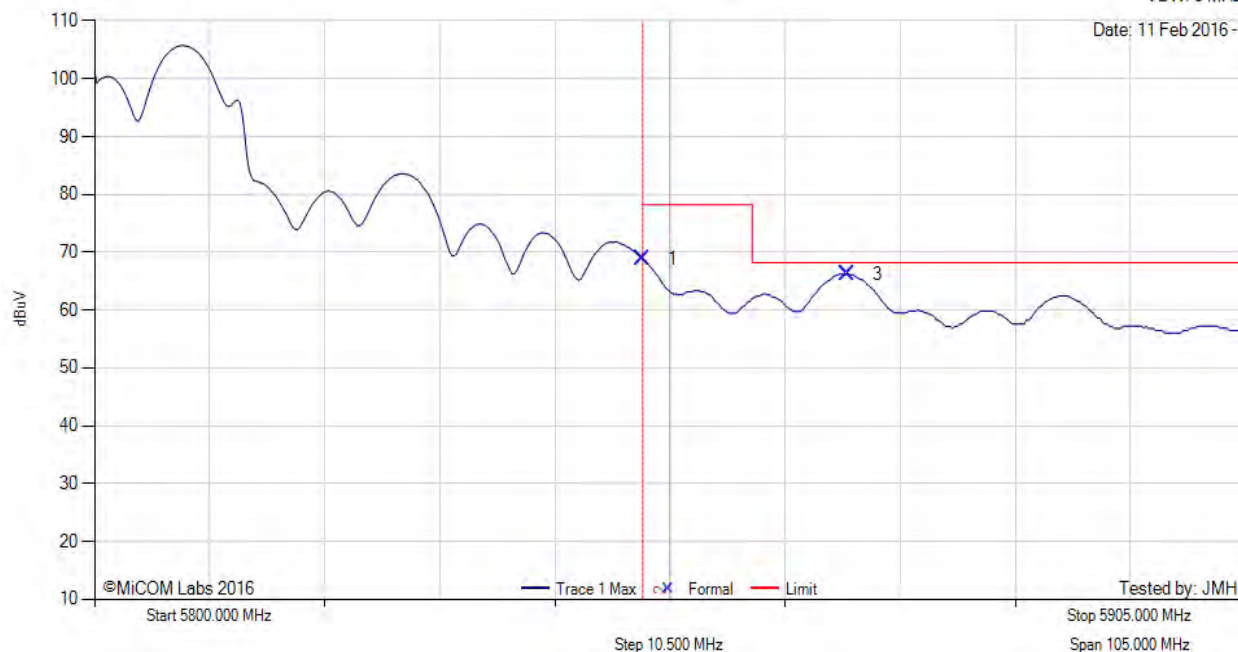
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	30.36	3.81	34.63	68.80	Marker	Vertical	199	23	78.2	-9.4	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5868.63	27.71	3.82	34.68	66.21	Marker	Vertical	199	23	68.2	-2.0	Pass

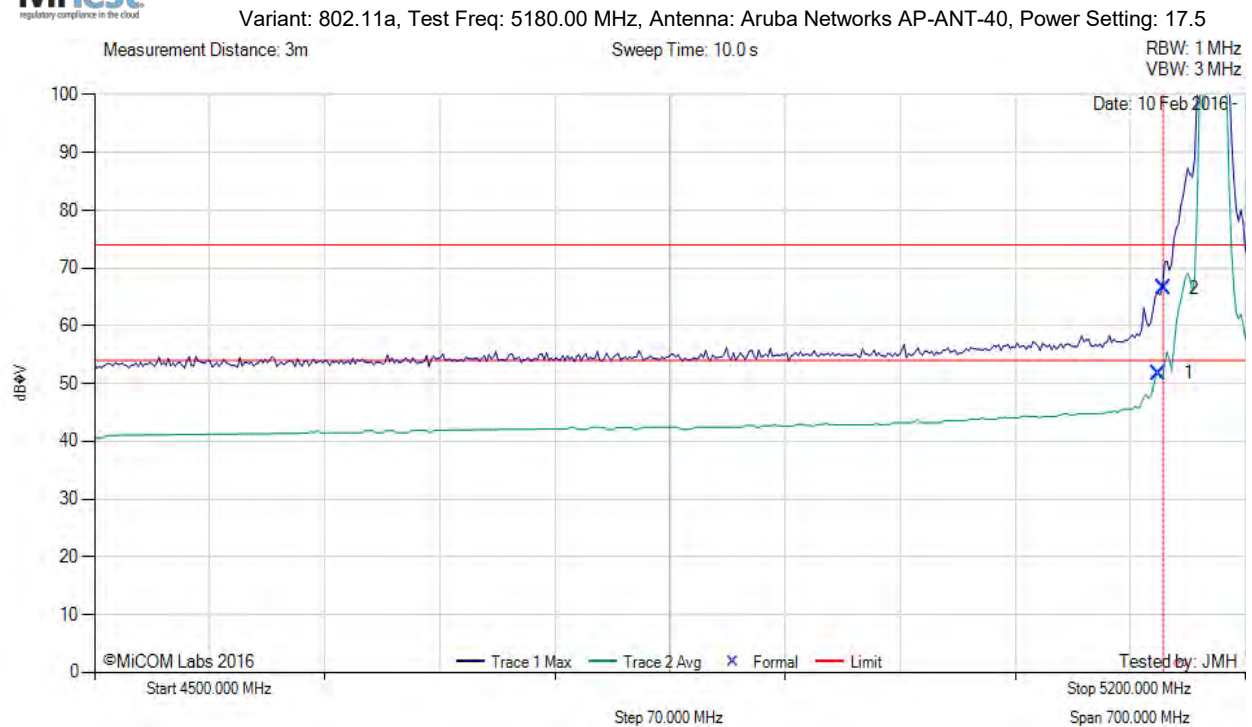
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

A.1.2.13. AP-ANT-40



RESTRICTED LOWER BAND-EDGE EMISSIONS



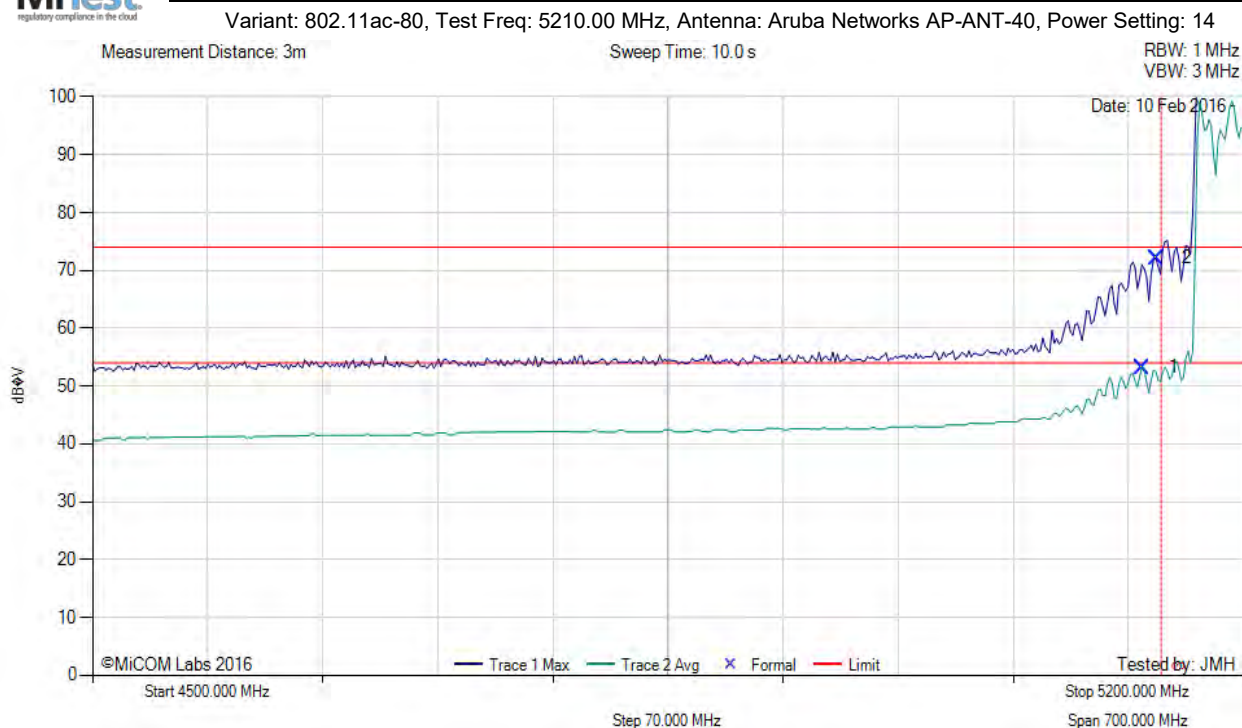
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5147.19	13.97	3.68	34.11	51.76	Max Avg	Horizontal	160	27	54.0	-2.2	Pass
2	5150.00	28.76	3.67	34.11	66.54	Max Peak	Horizontal	160	27	74.0	-7.5	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5138.78	15.42	3.70	34.12	53.24	Max Avg	Horizontal	160	27	54.0	-0.8	Pass
2	5147.19	34.32	3.68	34.11	72.11	Max Peak	Horizontal	160	27	74.0	-1.9	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-40, Power Setting: 17.5

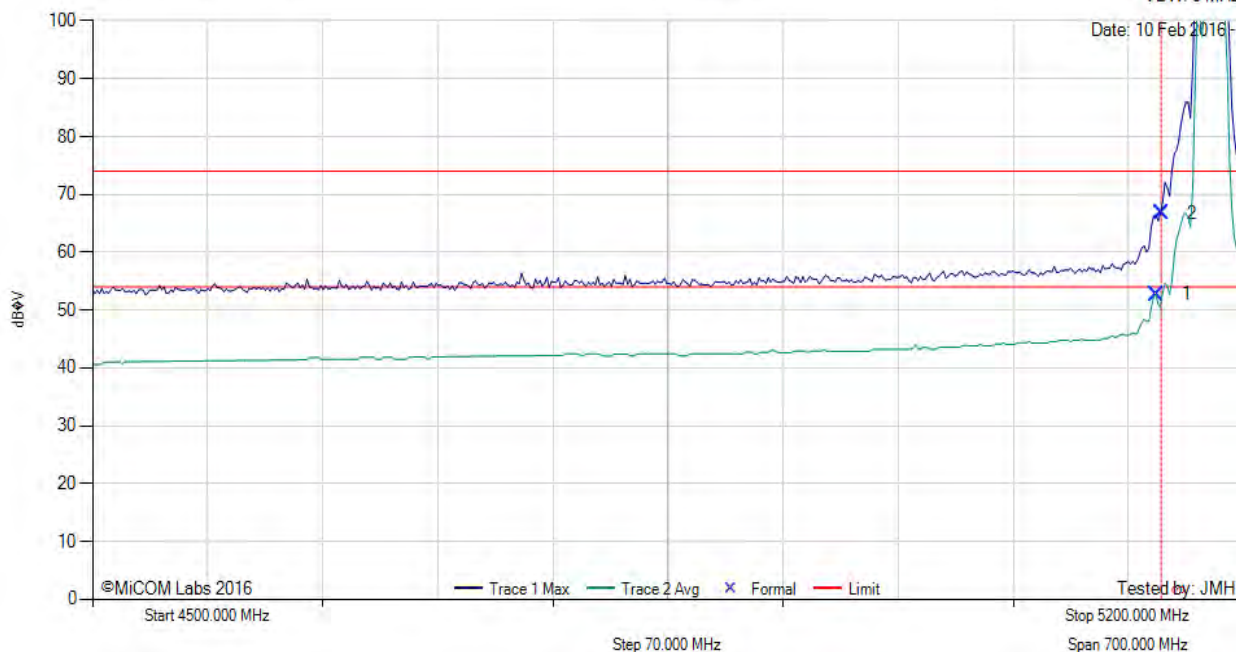
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 10 Feb 2016



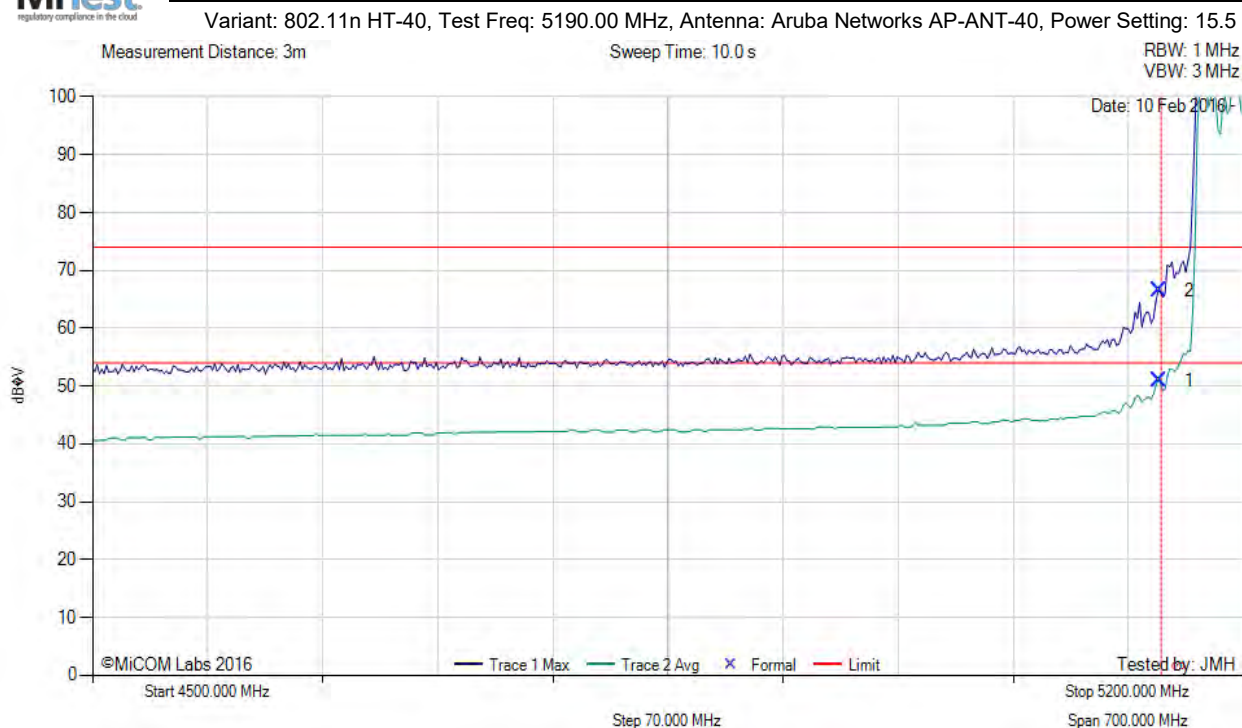
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5147.19	14.96	3.68	34.11	52.75	Max Avg	Horizontal	160	27	54.0	-1.3	Pass
2	5150.00	28.91	3.67	34.11	66.69	Max Peak	Horizontal	160	27	74.0	-7.3	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



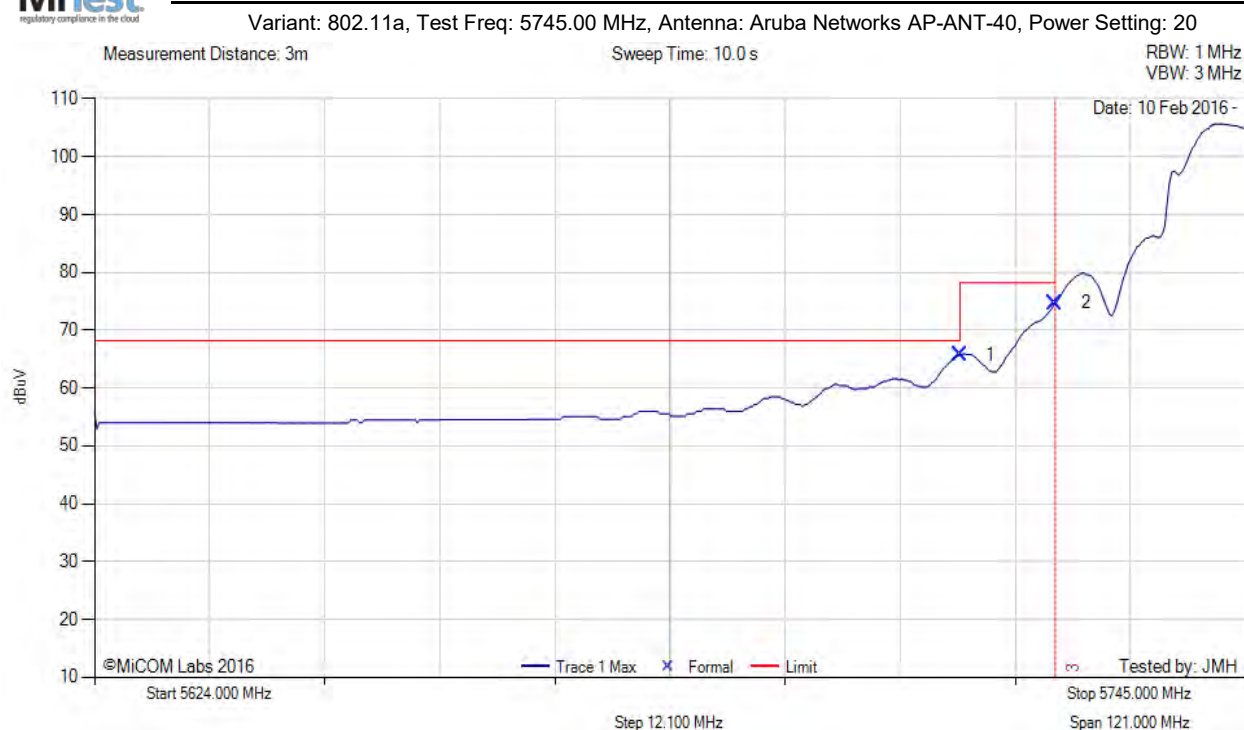
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.60	13.13	3.67	34.11	50.91	Max Avg	Horizontal	160	27	54.0	-3.1	Pass
2	5148.60	28.67	3.67	34.11	66.45	Max Peak	Horizontal	160	27	74.0	-7.6	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



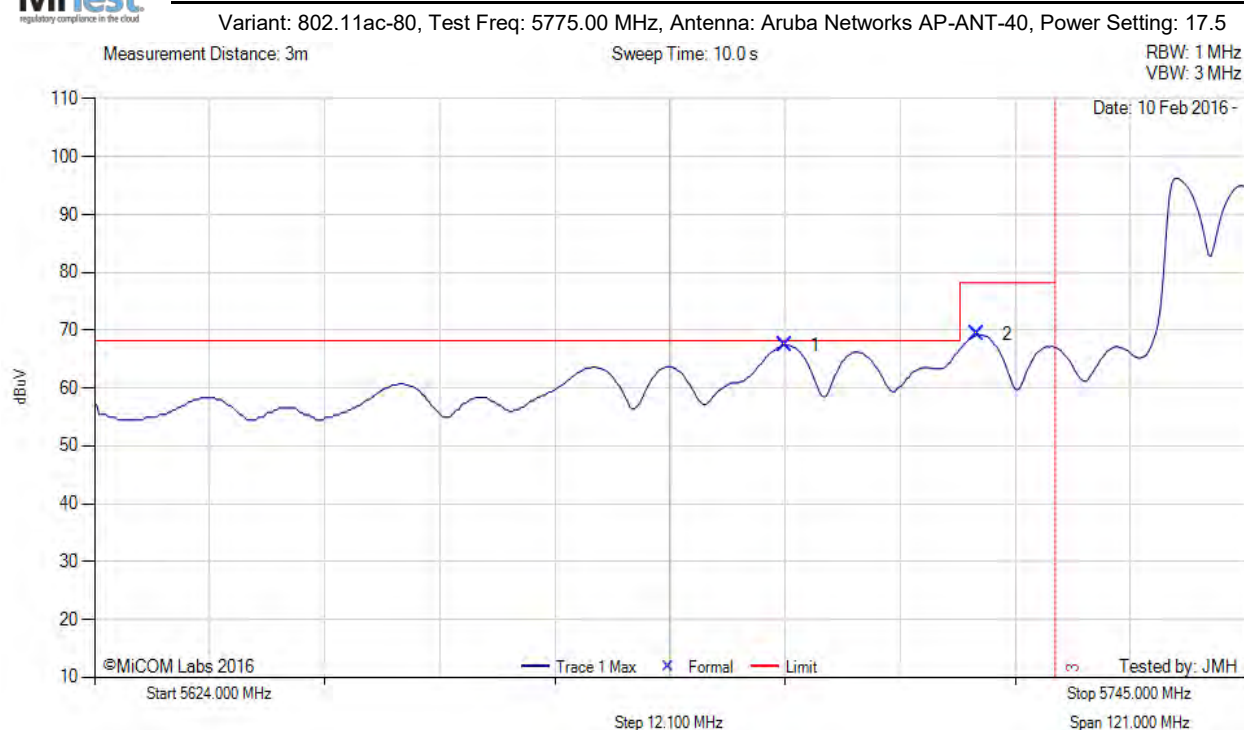
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	27.54	3.81	34.34	65.69	Marker	Horizontal	153	303	68.2	-2.5	Pass
2	5725.00	36.60	3.79	34.35	74.74	Marker	Horizontal	153	303	78.2	-3.5	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5696.57	29.22	3.86	34.32	67.40	Marker	Horizontal	153	303	68.2	-0.8	Pass
2	5716.76	31.16	3.81	34.34	69.31	Marker	Horizontal	153	303	78.2	-8.9	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

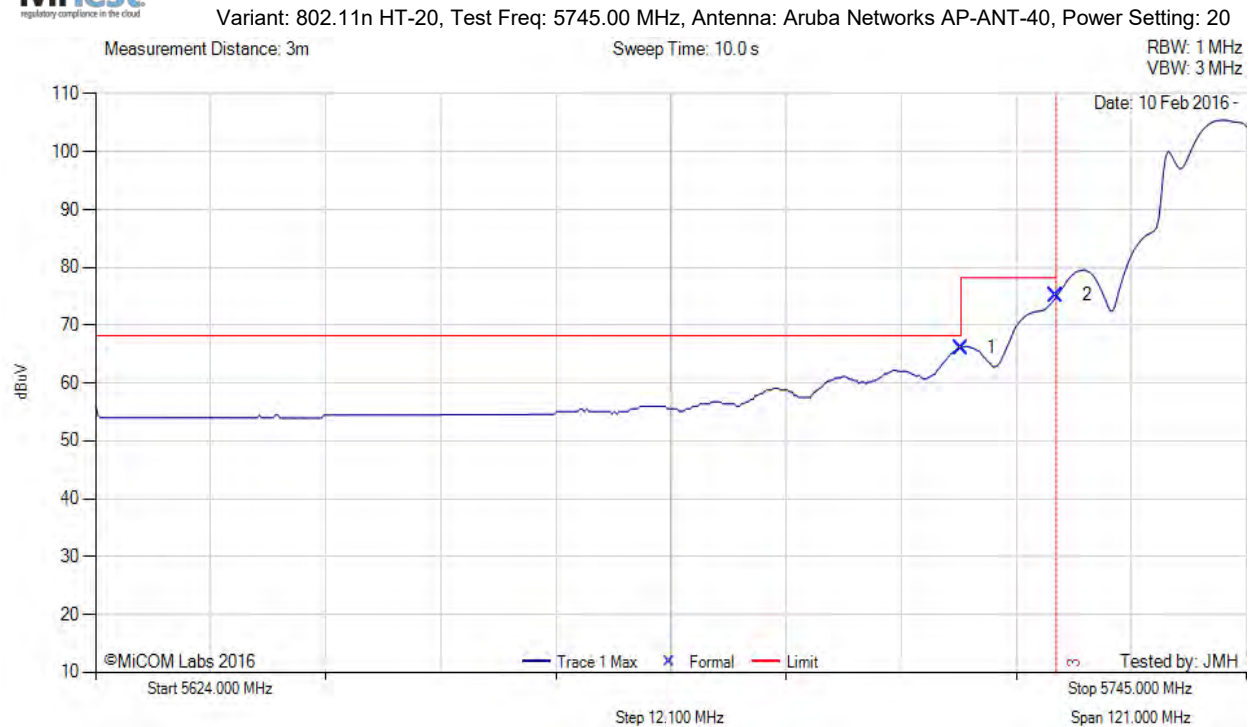
[back to matrix](#)



Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 272 of 320



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5715.00	27.94	3.81	34.34	66.09	Marker	Horizontal	153	303	68.2	-2.1	Pass
2	5725.00	37.07	3.79	34.35	75.21	Marker	Horizontal	153	303	78.2	-3.0	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

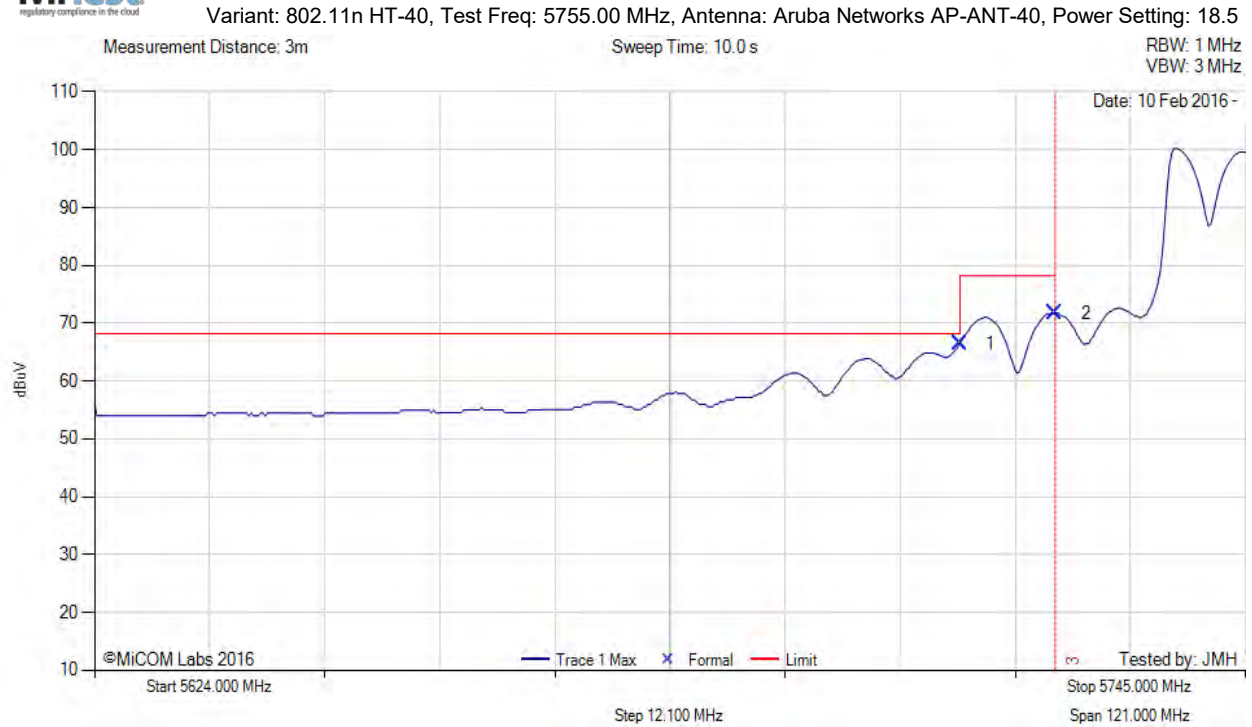
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

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5725 MHz RADIATED BAND-EDGE EMISSIONS



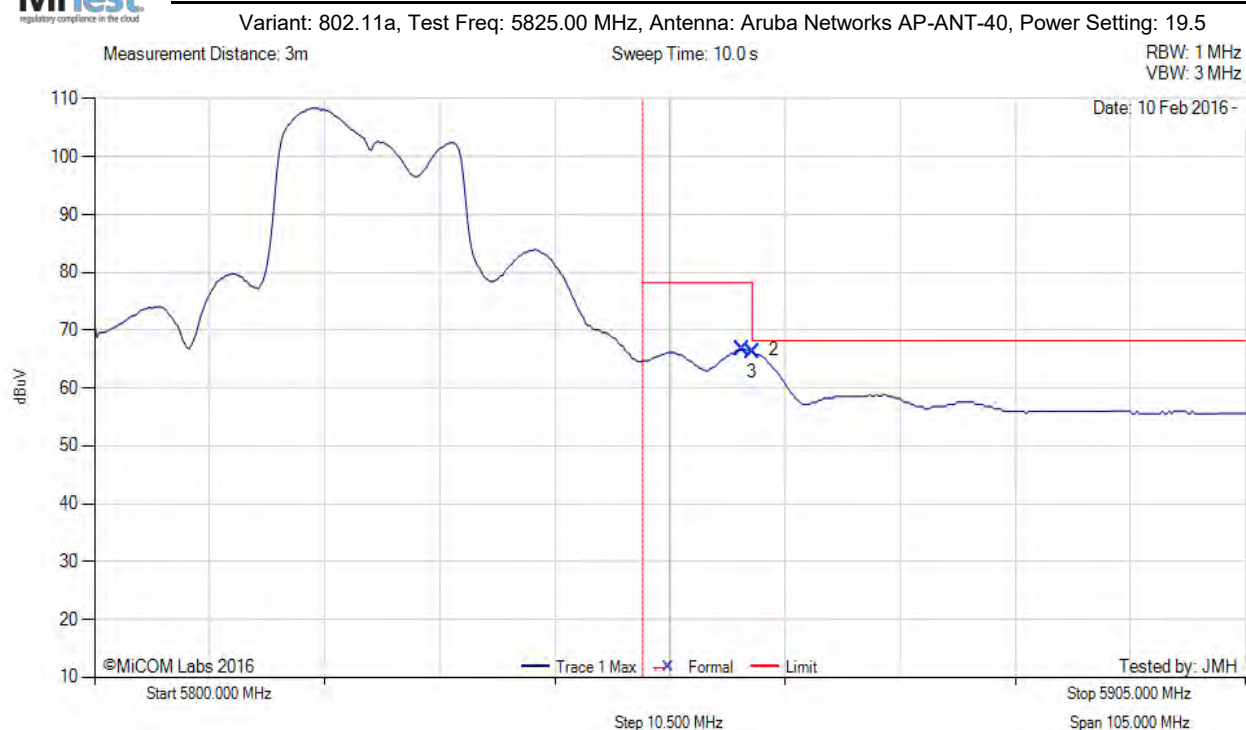
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	28.32	3.81	34.34	66.47	Marker	Horizontal	153	303	68.2	-1.8	Pass
2	5725.00	33.59	3.79	34.35	71.73	Marker	Horizontal	153	303	78.2	-6.5	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



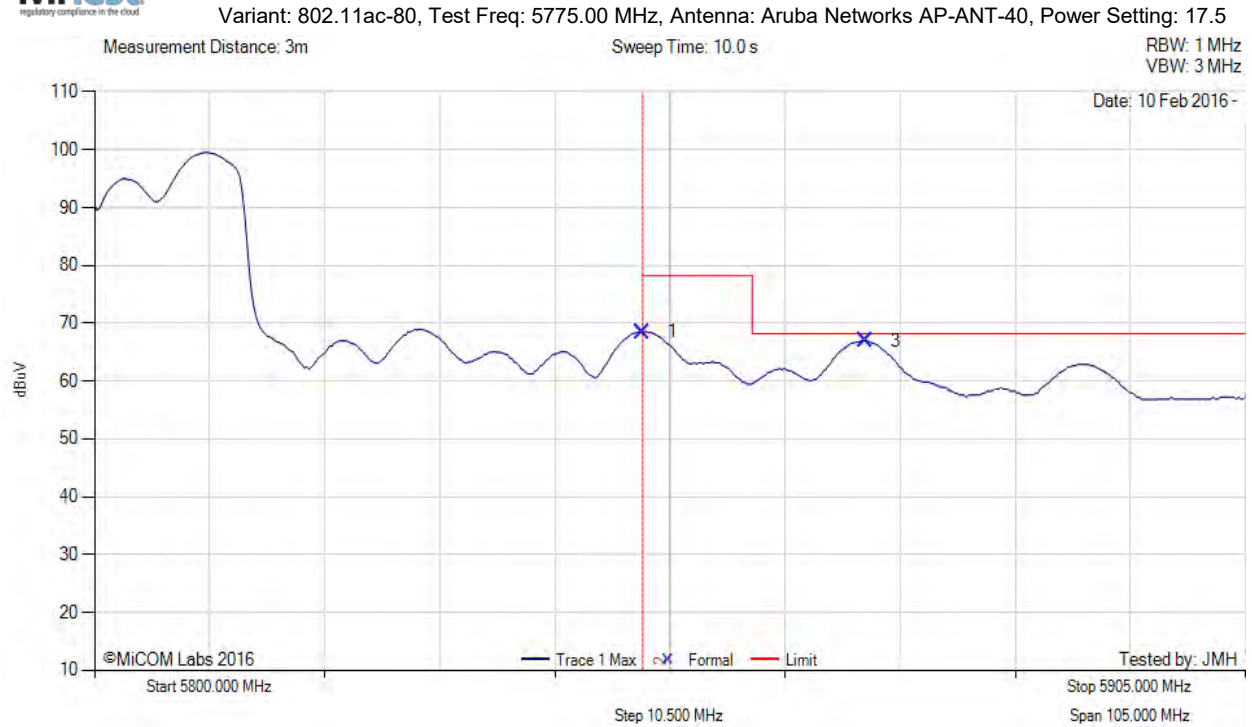
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5859.13	28.21	3.85	34.65	66.71	Marker	Horizontal	116	304	78.2	-11.5	Pass
3	5860.00	27.82	3.86	34.65	66.33	Marker	Horizontal	116	304	78.2	-11.9	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



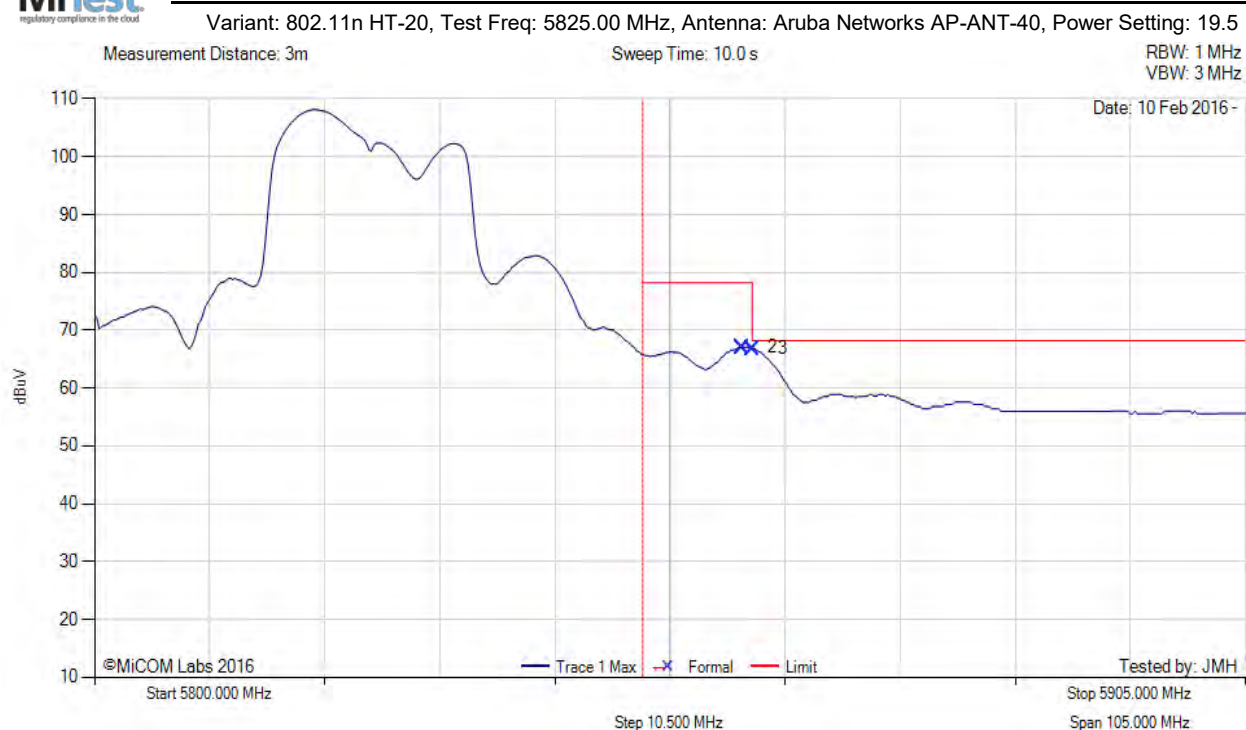
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	30.06	3.81	34.63	68.50	Marker	Horizontal	116	304	78.2	-9.7	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5870.31	28.49	3.81	34.68	66.98	Marker	Horizontal	116	304	68.2	-1.3	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



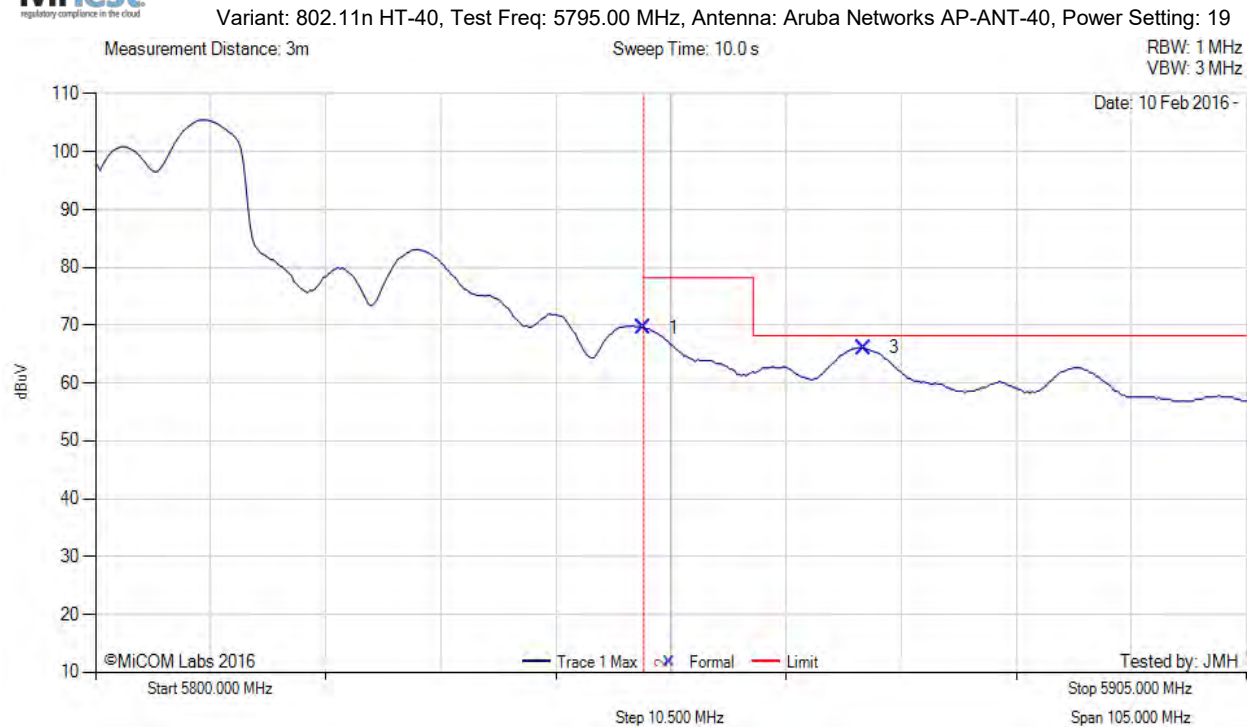
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5859.05	28.58	3.85	34.65	67.08	Marker	Horizontal	116	304	78.2	-11.2	Pass
3	5860.00	28.33	3.86	34.65	66.84	Marker	Horizontal	116	304	78.2	-11.4	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	31.12	3.81	34.63	69.56	Marker	Horizontal	116	304	78.2	-8.7	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5870.10	27.59	3.81	34.68	66.08	Marker	Horizontal	116	304	68.2	-2.2	Pass

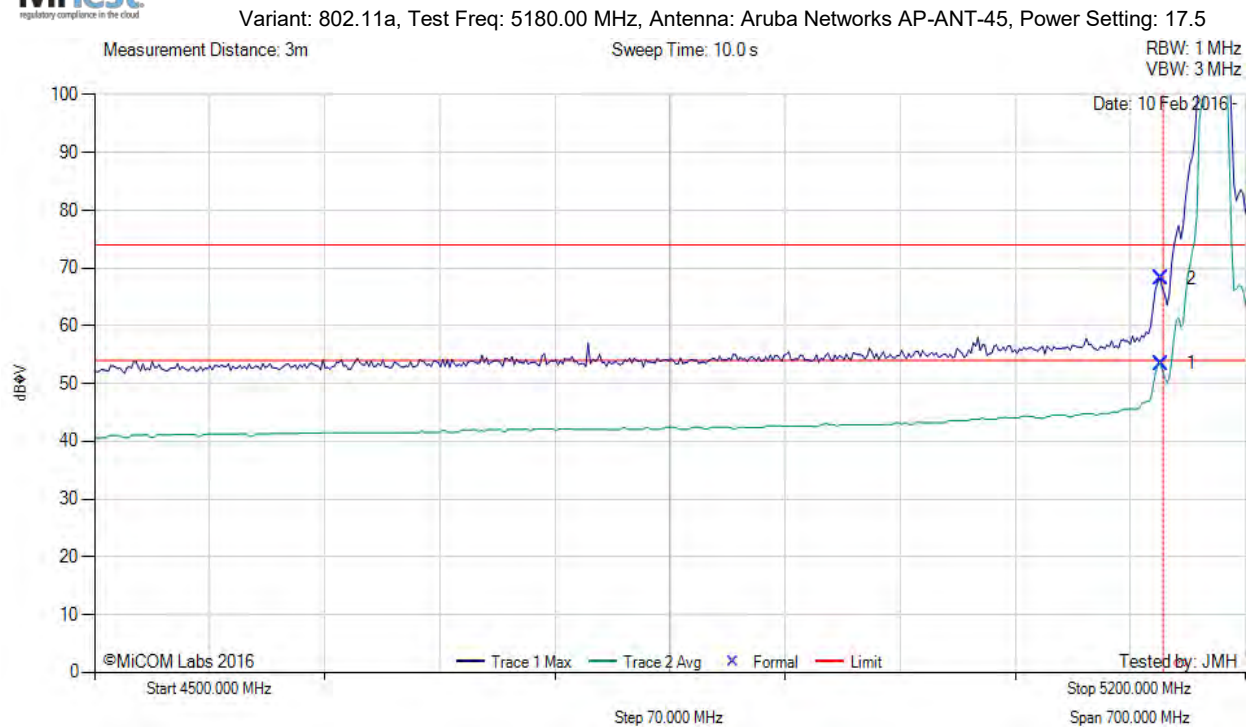
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

A.1.2.14. AP-ANT-45



RESTRICTED LOWER BAND-EDGE EMISSIONS



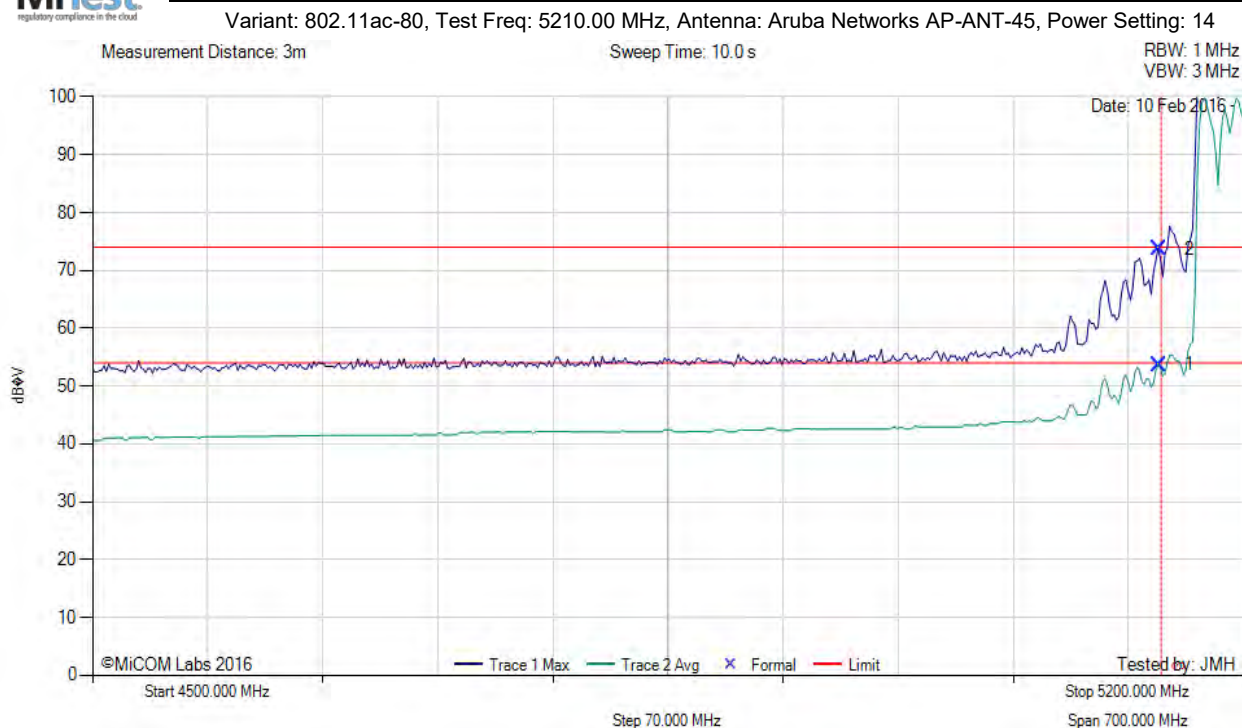
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.60	15.66	3.67	34.11	53.44	Max Avg	Horizontal	160	32	54.0	-0.6	Pass
2	5148.60	30.36	3.67	34.11	68.14	Max Peak	Horizontal	160	32	74.0	-5.9	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.60	15.94	3.67	34.11	53.72	Max Avg	Horizontal	160	32	54.0	-0.3	Pass
2	5148.60	35.95	3.67	34.11	73.73	Max Peak	Horizontal	160	32	74.0	-0.3	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-45, Power Setting: 17.5

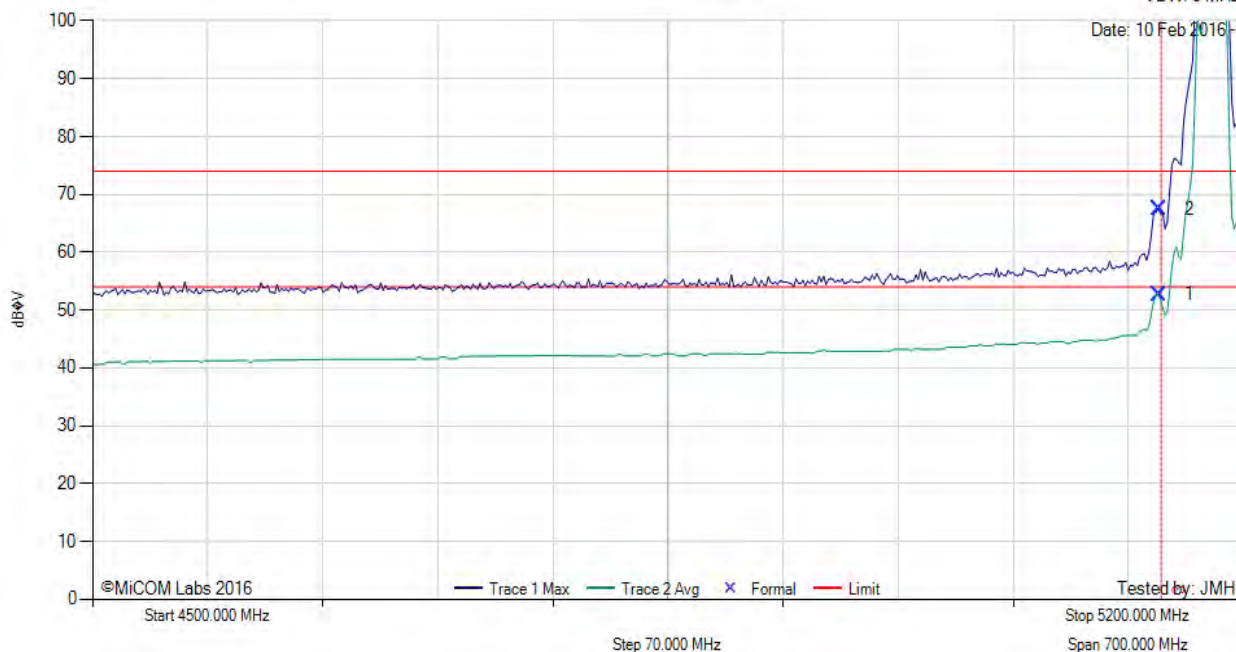
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 10 Feb 2016



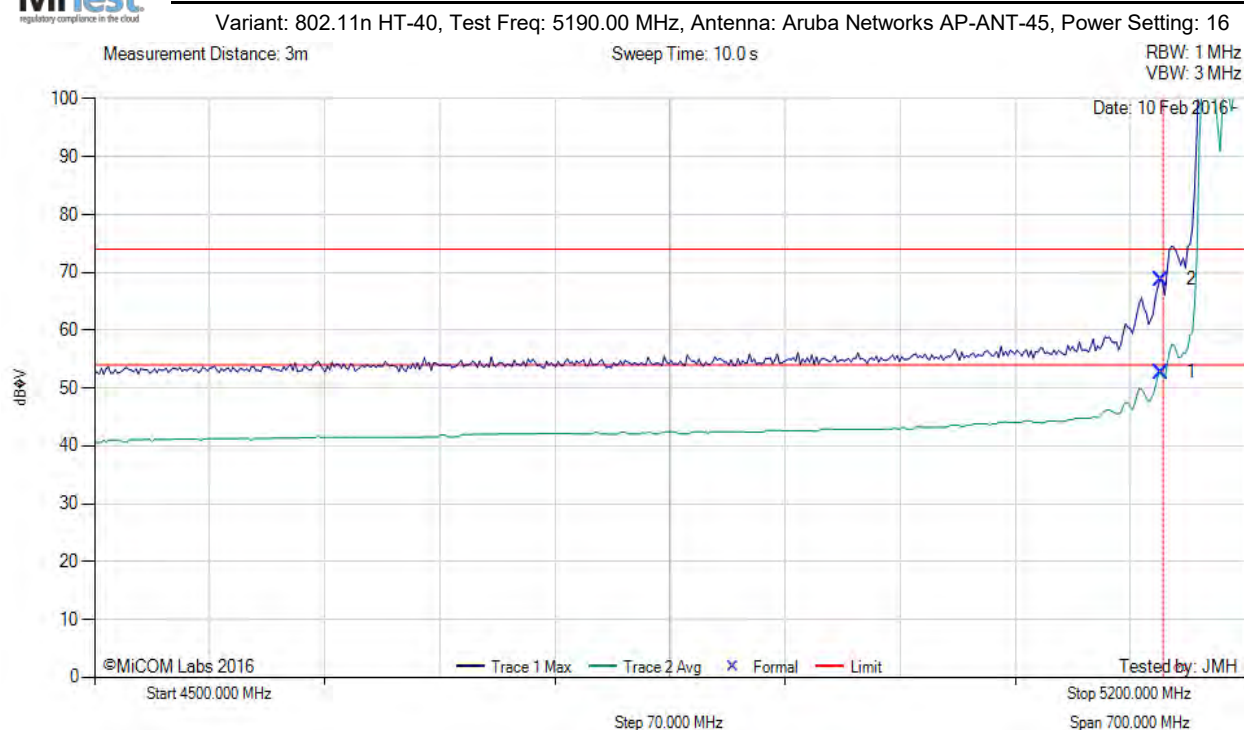
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.60	14.97	3.67	34.11	52.75	Max Avg	Horizontal	160	32	54.0	-1.3	Pass
2	5148.60	29.72	3.67	34.11	67.50	Max Peak	Horizontal	160	32	74.0	-6.5	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



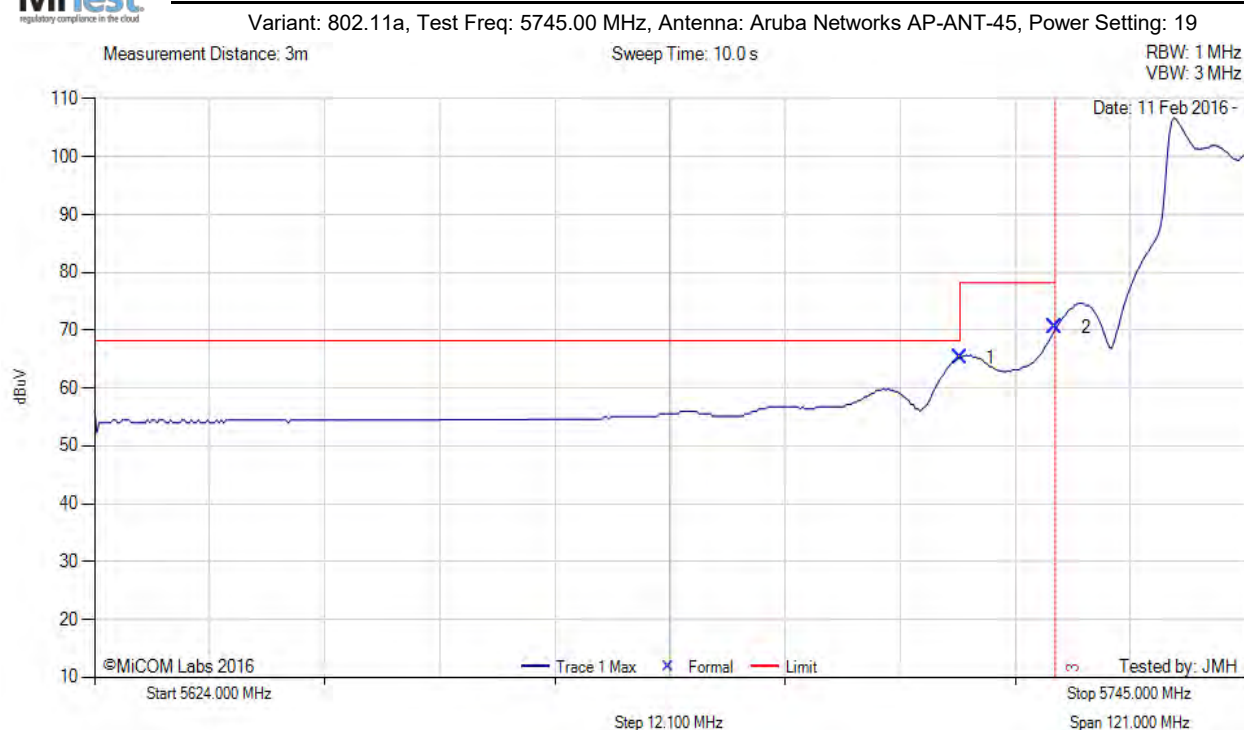
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5148.60	14.97	3.67	34.11	52.75	Max Avg	Horizontal	160	32	54.0	-1.3	Pass
2	5148.60	31.00	3.67	34.11	68.78	Max Peak	Horizontal	160	32	74.0	-5.2	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



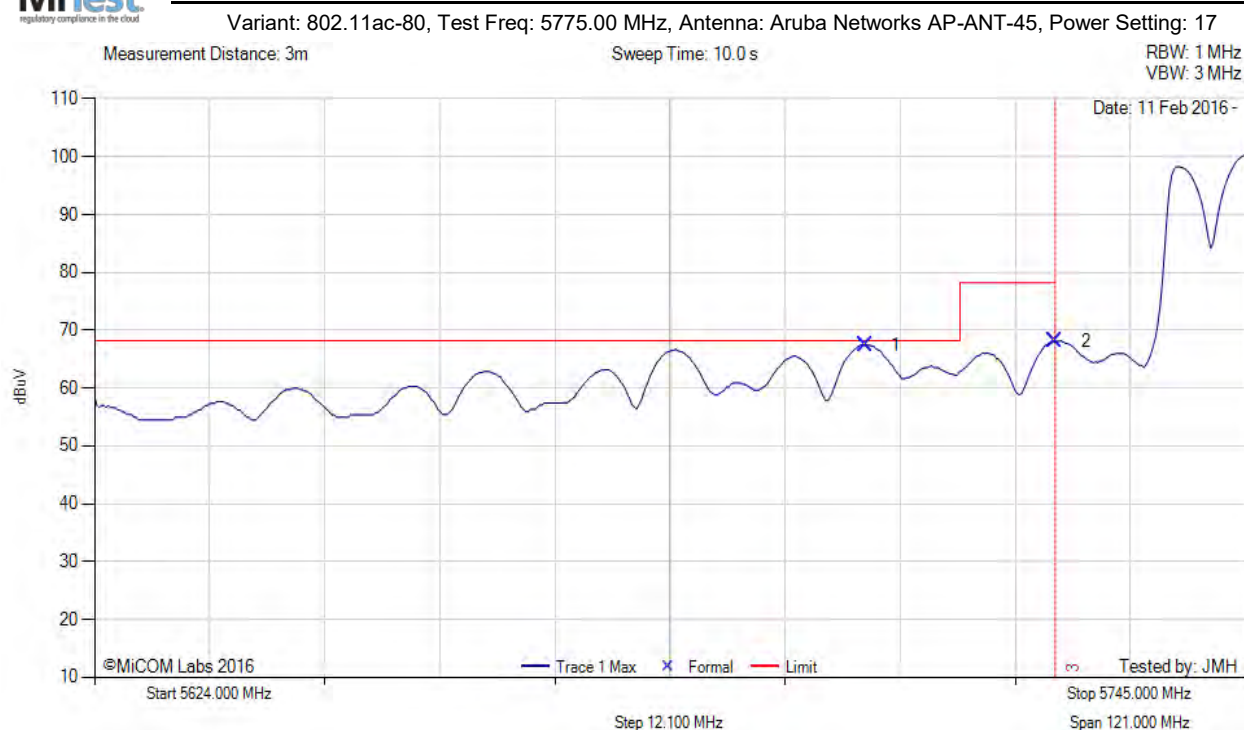
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	27.13	3.81	34.34	65.28	Marker	Horizontal	156	331	68.2	-3.0	Pass
2	5725.00	32.35	3.79	34.35	70.49	Marker	Horizontal	156	331	78.2	-7.7	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



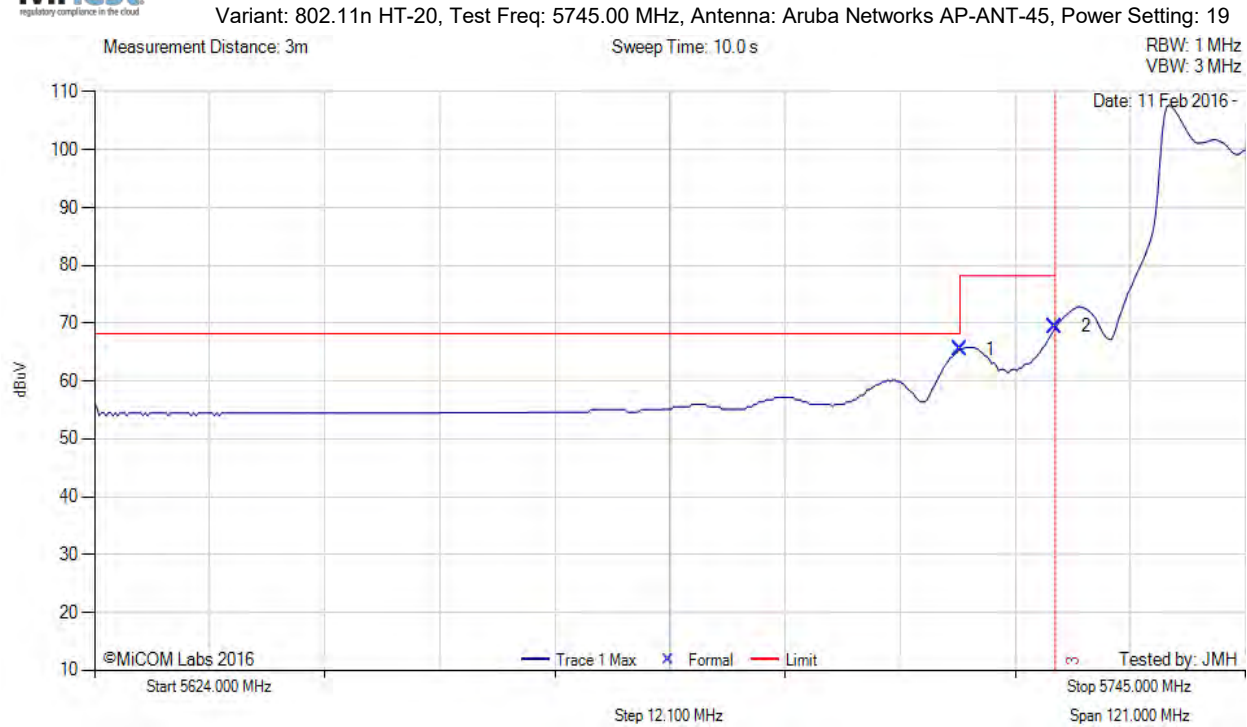
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5705.06	29.21	3.86	34.33	67.40	Marker	Horizontal	156	331	68.2	-0.8	Pass
2	5725.00	29.93	3.79	34.35	68.07	Marker	Horizontal	156	331	78.2	-10.2	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	27.27	3.81	34.34	65.42	Marker	Horizontal	156	331	68.2	-2.8	Pass
2	5725.00	31.27	3.79	34.35	69.41	Marker	Horizontal	156	331	78.2	-8.8	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

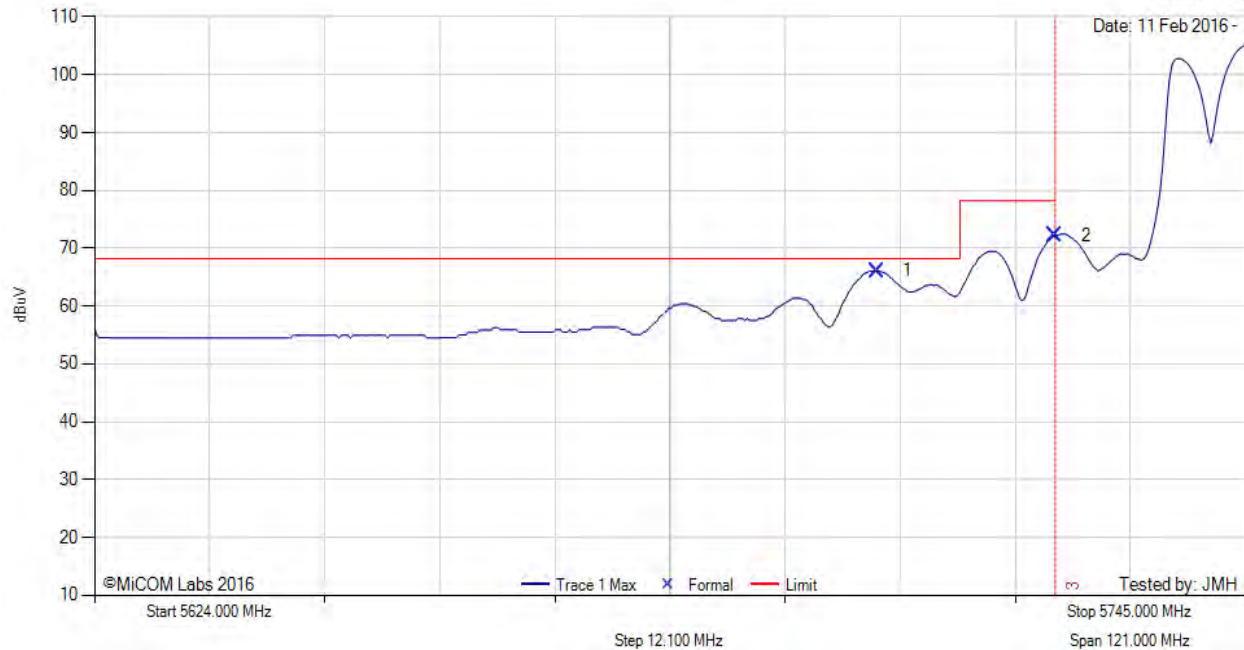
Variant: 802.11n HT-40, Test Freq: 5755.00 MHz, Antenna: Aruba Networks AP-ANT-45, Power Setting: 18

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 11 Feb 2016 -



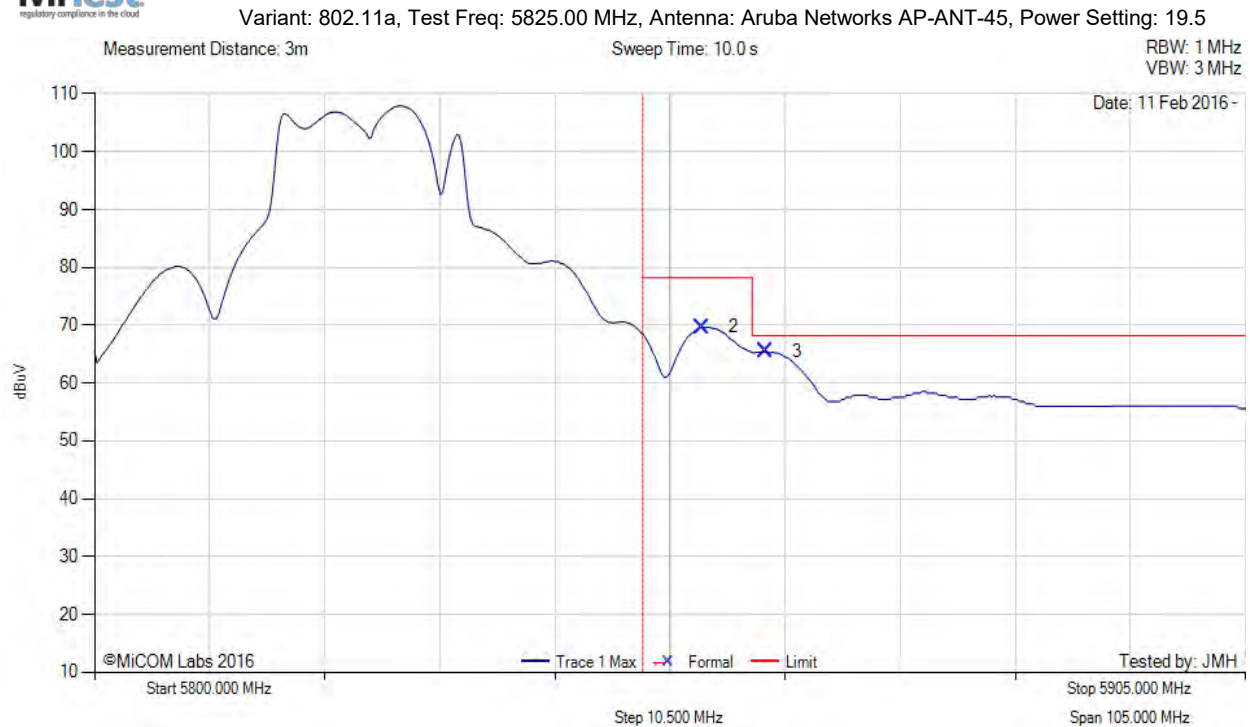
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5706.27	27.89	3.86	34.33	66.08	Marker	Horizontal	156	331	68.2	-2.2	Pass
2	5725.00	34.05	3.79	34.35	72.19	Marker	Horizontal	156	331	78.2	-6.0	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



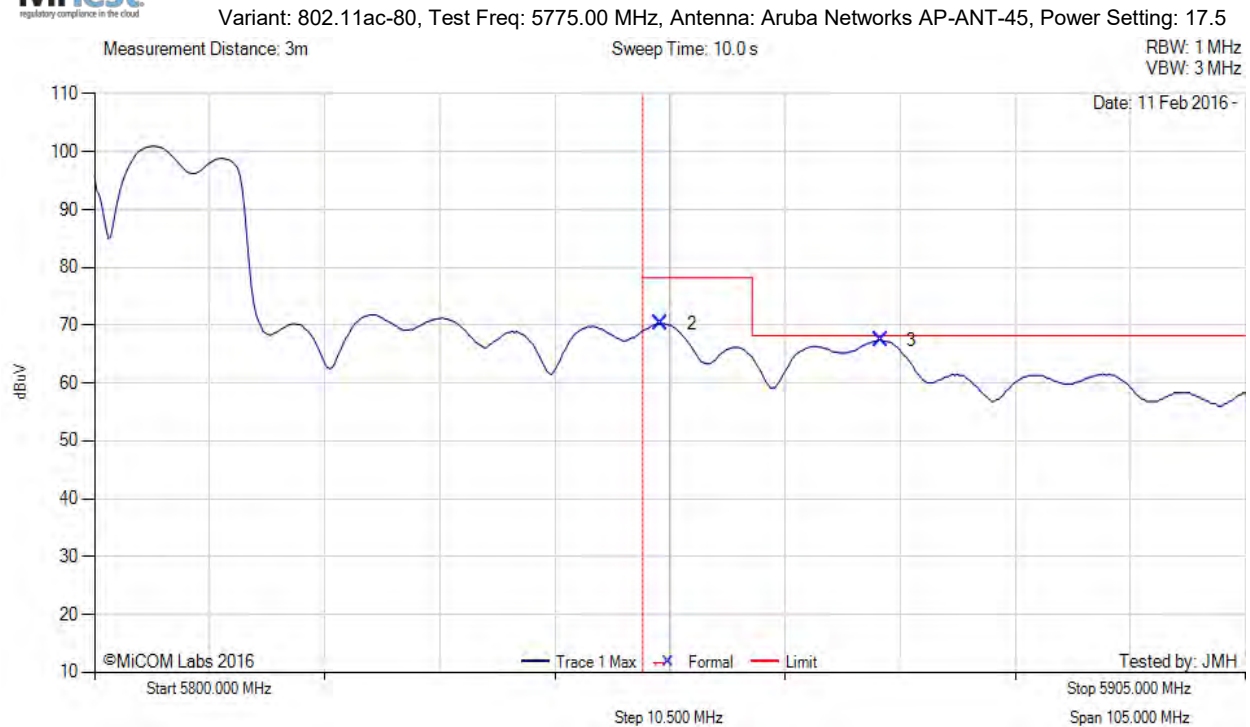
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5855.47	31.19	3.83	34.64	69.66	Marker	Horizontal	164	335	78.2	-8.6	Pass
3	5861.26	26.98	3.86	34.66	65.50	Marker	Horizontal	164	335	68.2	-2.7	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



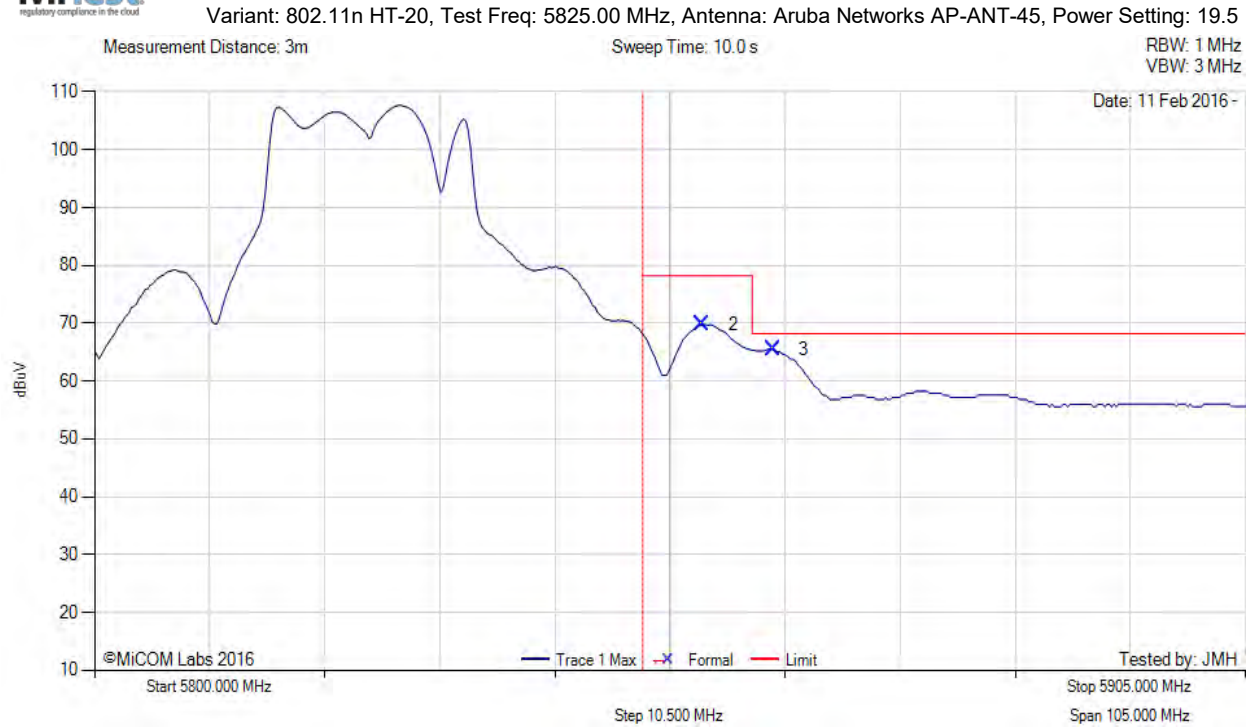
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5851.68	31.81	3.82	34.63	70.26	Marker	Horizontal	164	335	78.2	-8.0	Pass
3	5871.78	28.97	3.80	34.69	67.46	Marker	Horizontal	164	335	68.2	-0.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



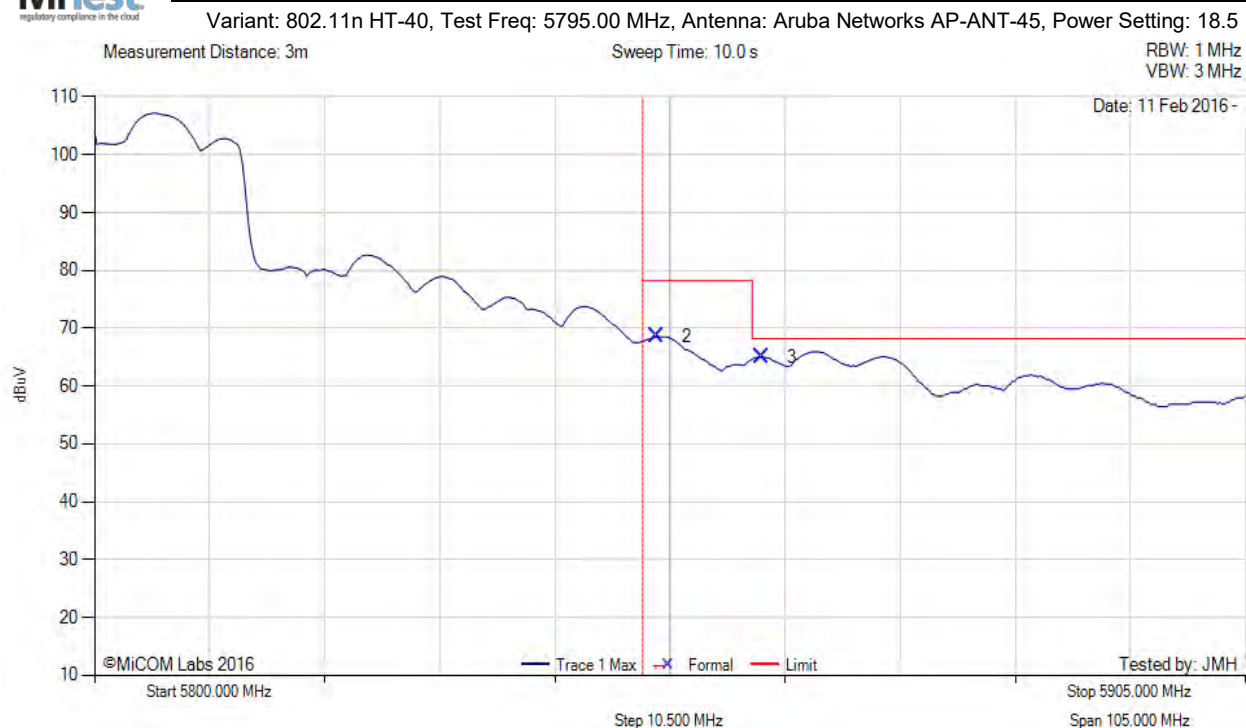
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5855.47	31.28	3.83	34.64	69.75	Marker	Horizontal	164	335	78.2	-8.5	Pass
3	5861.89	27.00	3.85	34.66	65.51	Marker	Horizontal	164	335	68.2	-2.7	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5851.26	30.17	3.81	34.63	68.61	Marker	Horizontal	164	333	78.2	-9.6	Pass
3	5860.84	26.54	3.86	34.66	65.06	Marker	Horizontal	164	333	68.2	-3.2	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

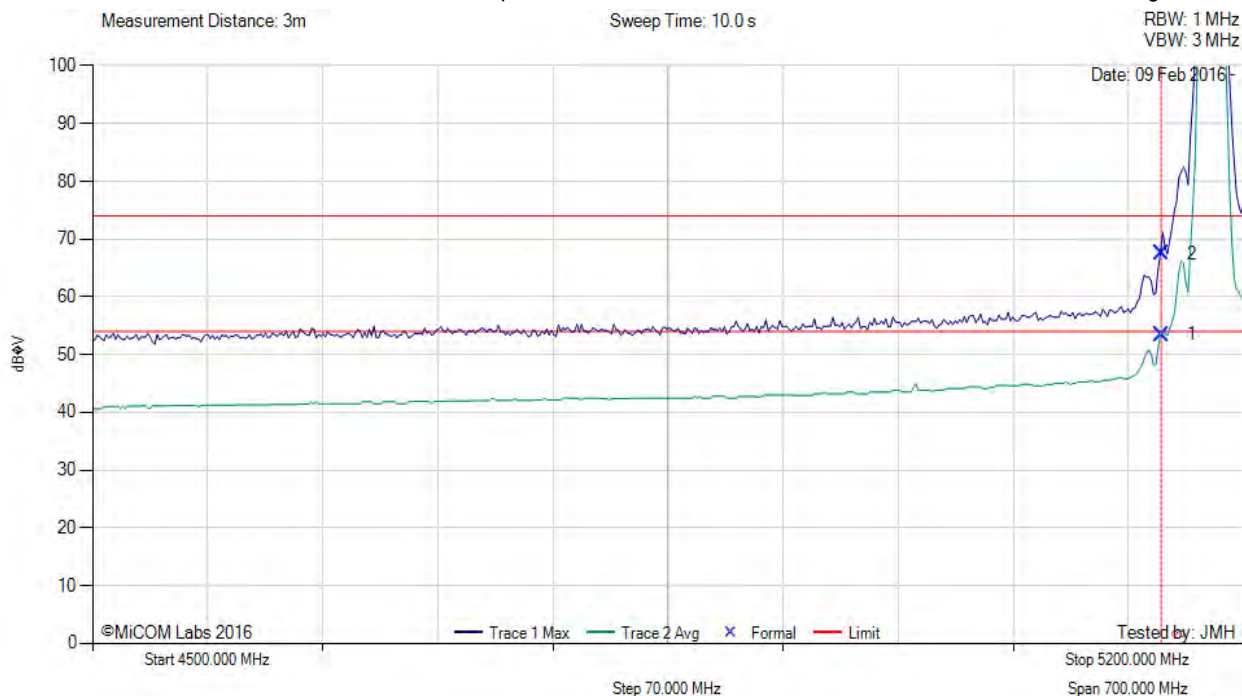
[back to matrix](#)

A.1.2.15. AP-ANT-48



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5180.00 MHz, Antenna: Aruba Networks AP-ANT-48, Power Setting: 17



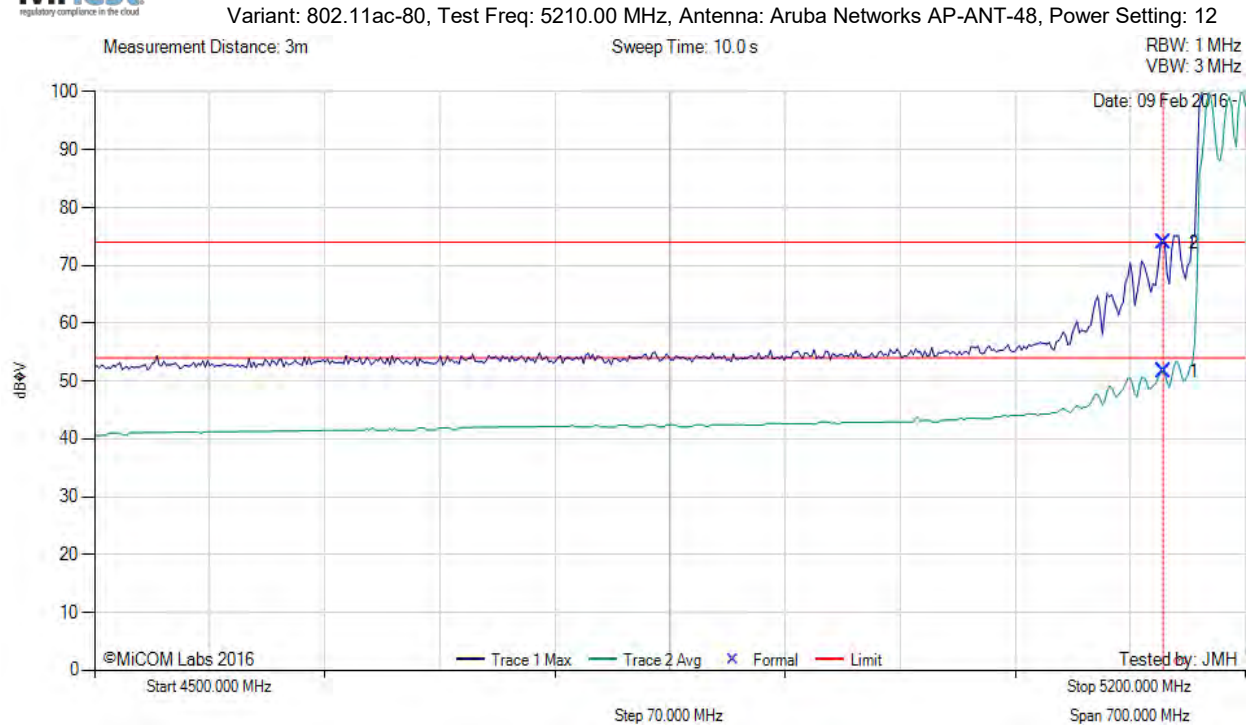
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	15.66	3.67	34.11	53.44	Max Avg	Horizontal	153	1	54.0	-0.6	Pass
2	5150.00	29.74	3.67	34.11	67.52	Max Peak	Horizontal	153	1	74.0	-6.5	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



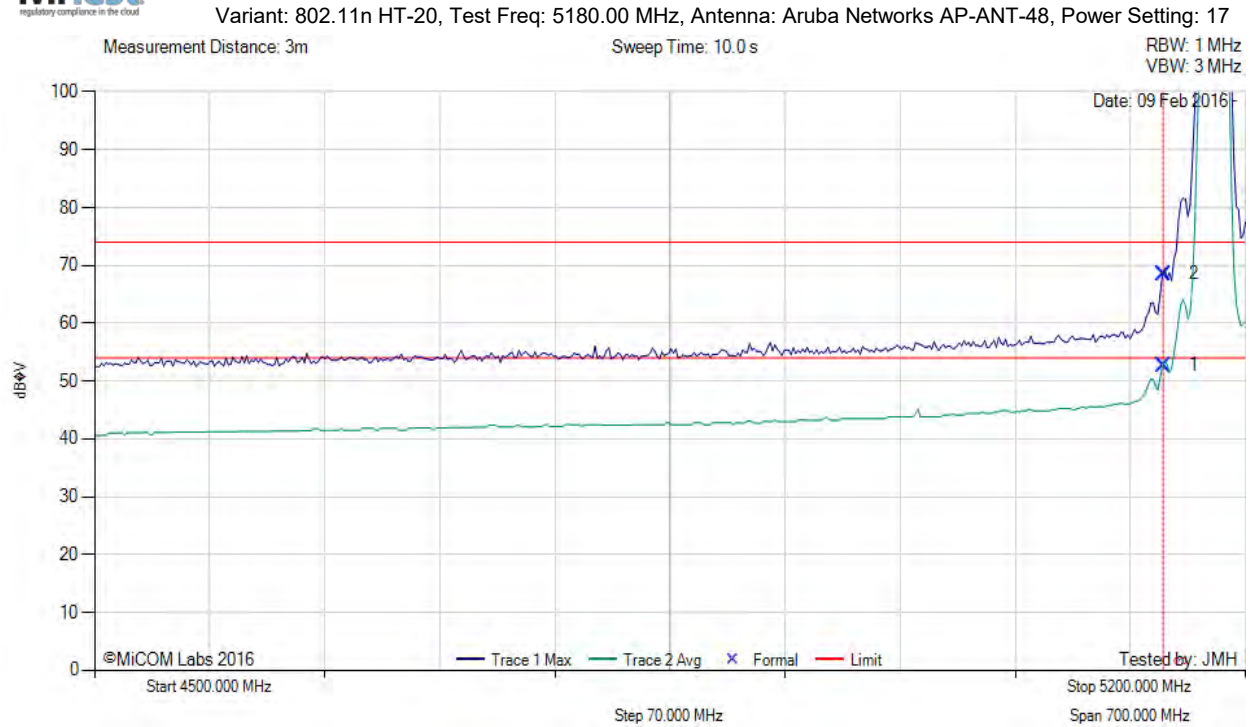
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	13.87	3.67	34.11	51.65	Max Avg	Horizontal	153	1	54.0	-2.4	Pass
2	5150.00	36.15	3.67	34.11	73.93	Max Peak	Horizontal	153	1	74.0	-0.1	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



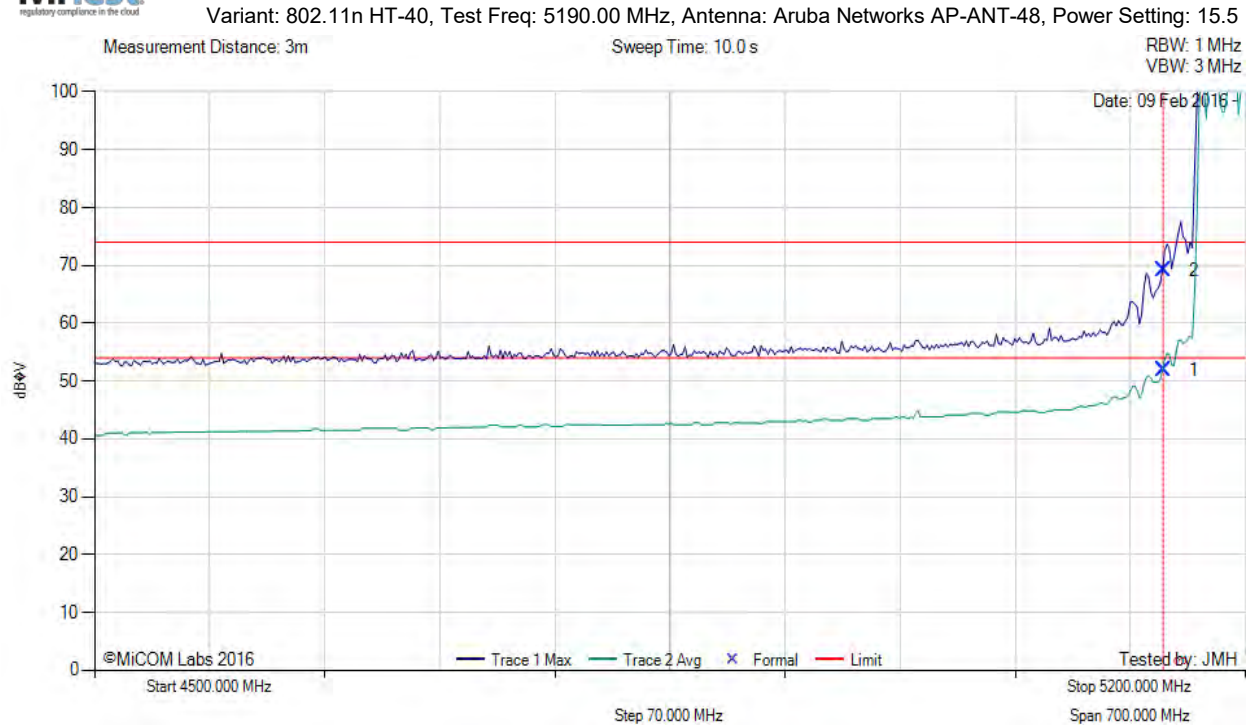
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	14.97	3.67	34.11	52.75	Max Avg	Horizontal	153	1	54.0	-1.3	Pass
2	5150.00	30.80	3.67	34.11	68.58	Max Peak	Horizontal	153	1	74.0	-5.4	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



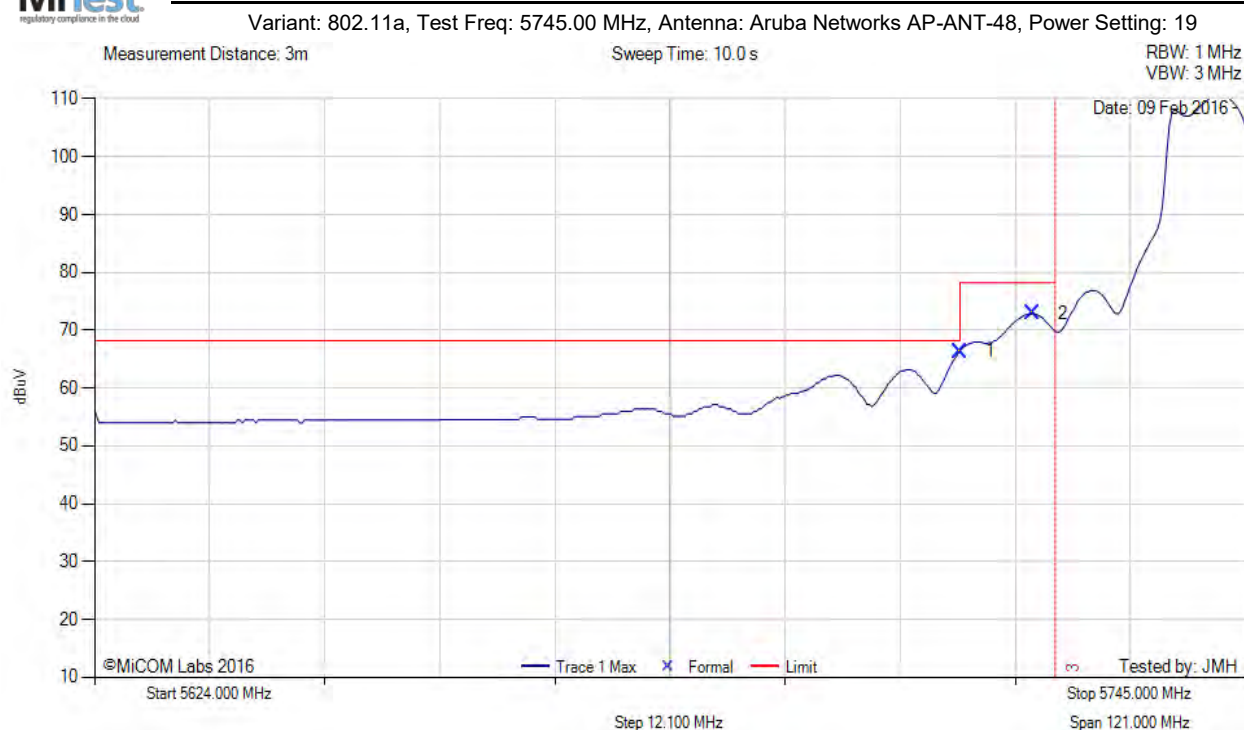
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	14.10	3.67	34.11	51.88	Max Avg	Horizontal	153	1	54.0	-2.1	Pass
2	5150.00	31.34	3.67	34.11	69.12	Max Peak	Horizontal	153	1	74.0	-4.9	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE, connected to laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



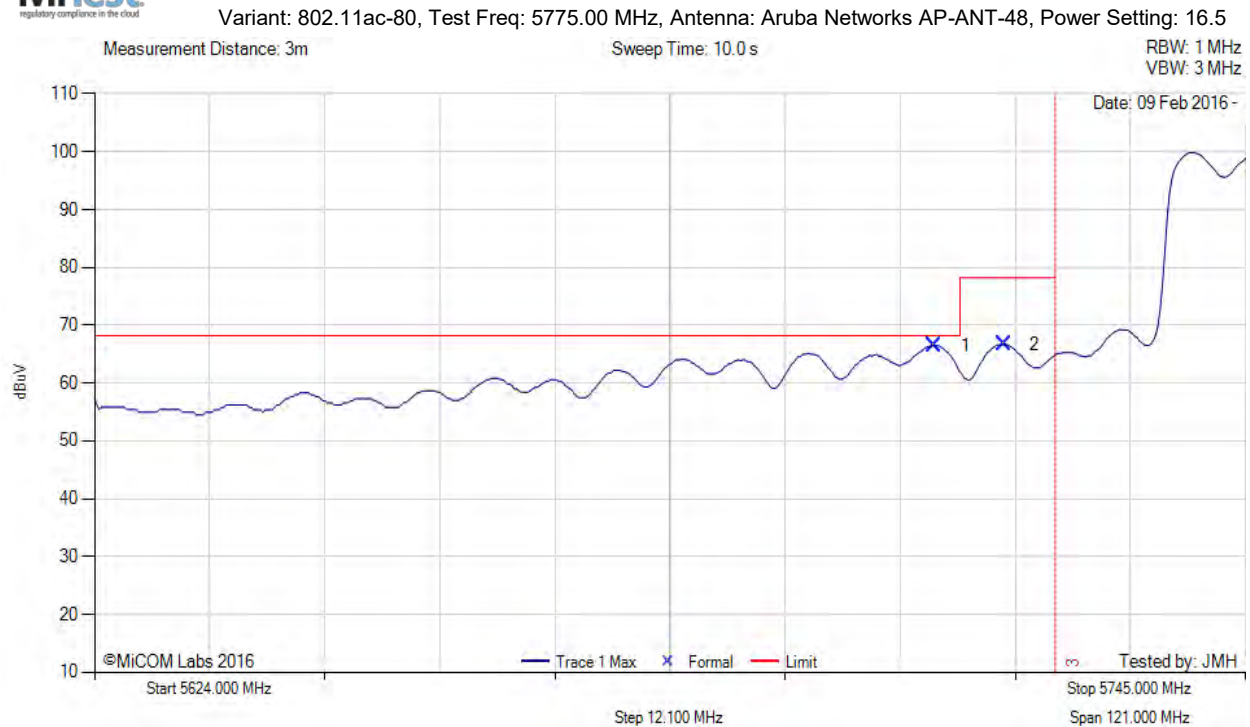
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	28.20	3.81	34.34	66.35	Marker	Horizontal	162	360	68.2	-1.9	Pass
2	5722.58	34.84	3.80	34.35	72.99	Marker	Horizontal	162	360	78.2	-5.2	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



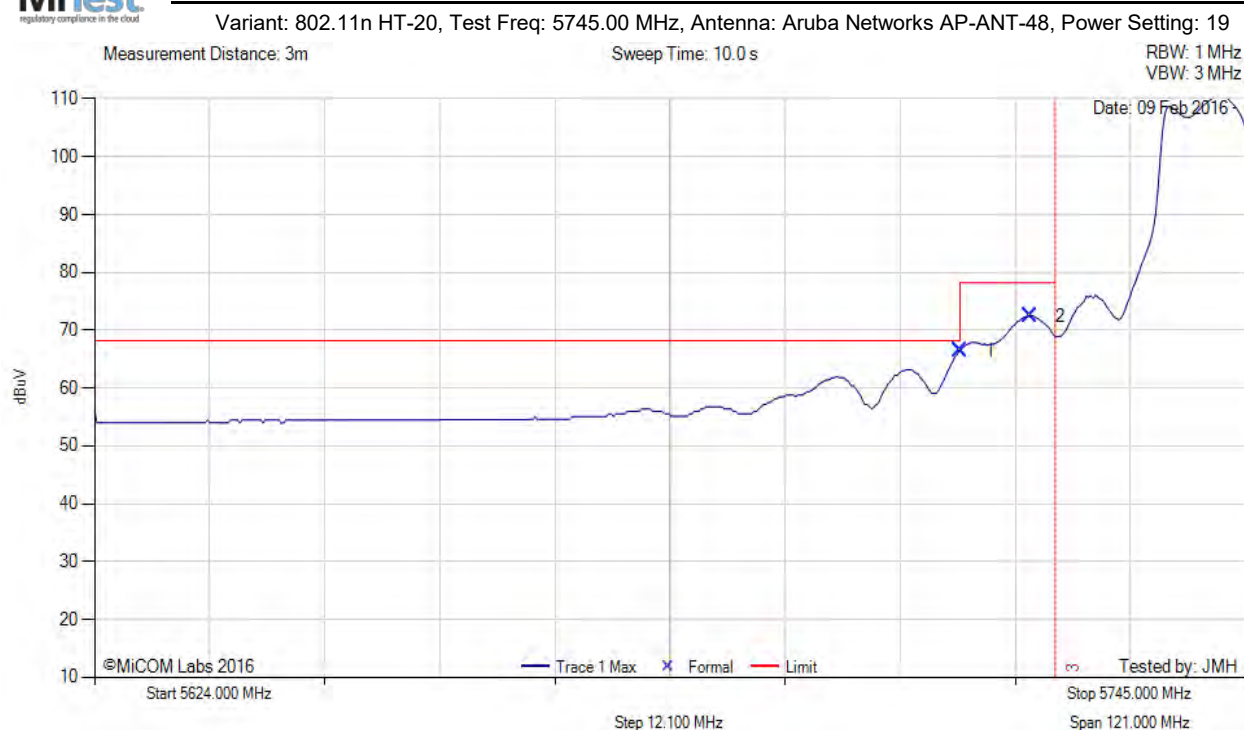
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5712.33	28.30	3.83	34.34	66.47	Marker	Horizontal	162	360	68.2	-1.8	Pass
2	5719.67	28.57	3.80	34.35	66.72	Marker	Horizontal	162	360	78.2	-11.5	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



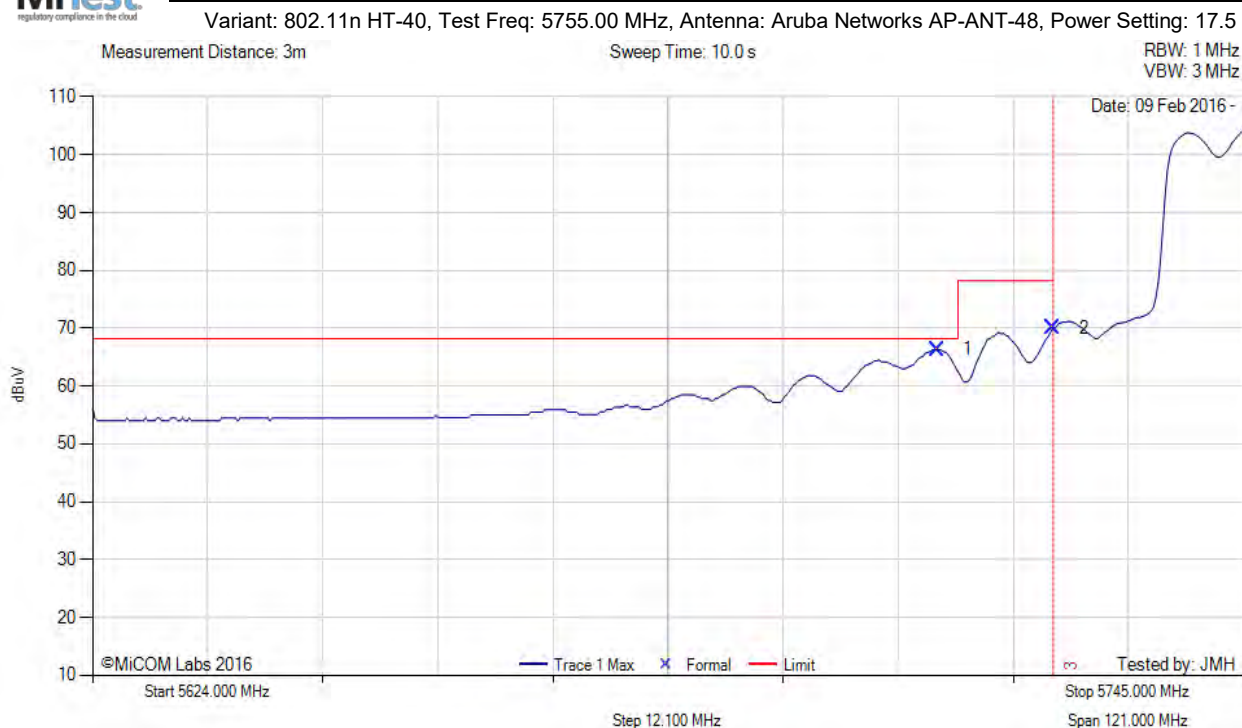
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	28.32	3.81	34.34	66.47	Marker	Horizontal	162	360	68.2	-1.8	Pass
2	5722.33	34.35	3.80	34.35	72.50	Marker	Horizontal	162	360	78.2	-5.7	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



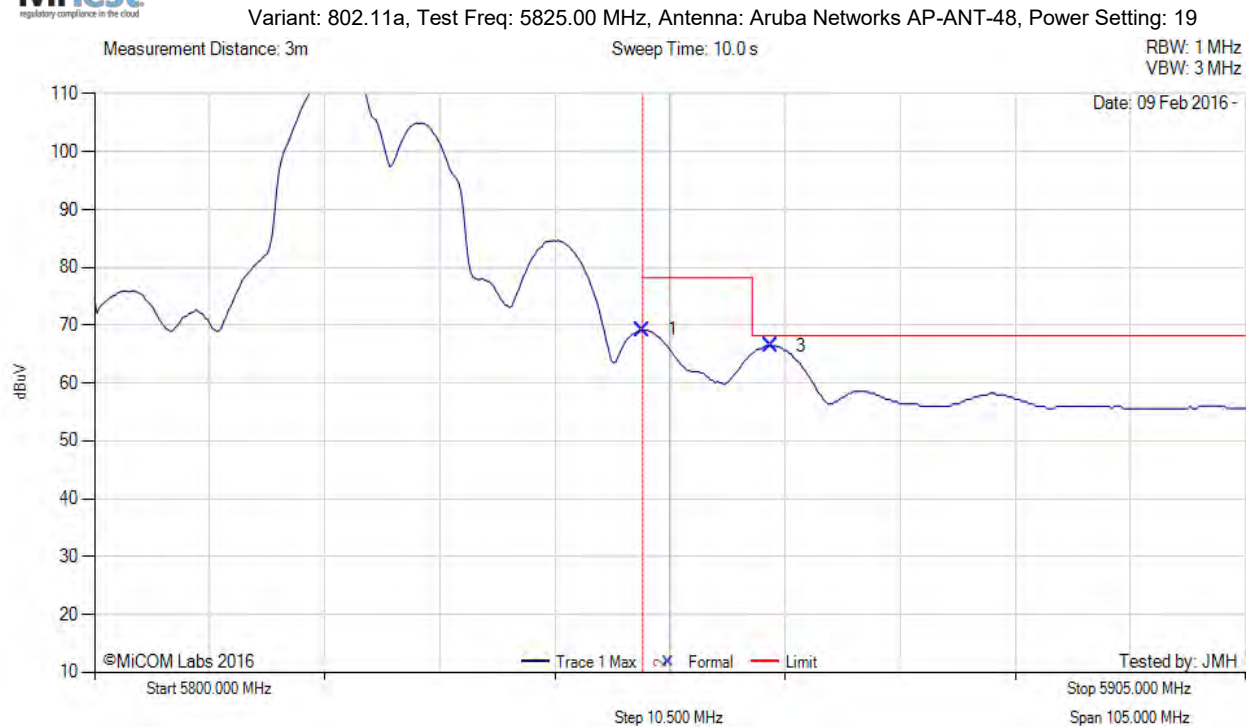
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5712.82	28.18	3.82	34.34	66.34	Marker	Horizontal	162	360	68.2	-1.9	Pass
2	5725.00	31.95	3.79	34.35	70.09	Marker	Horizontal	162	360	78.2	-8.1	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



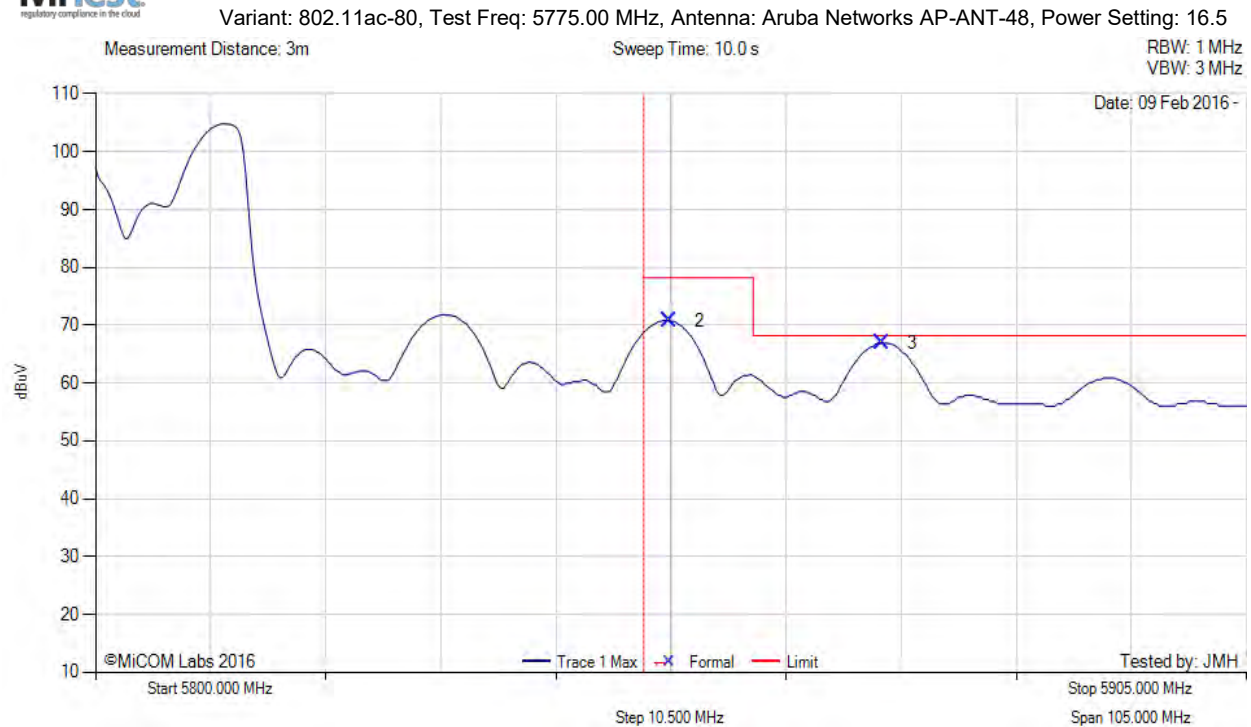
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	30.75	3.81	34.63	69.19	Marker	Horizontal	141	363	78.2	-9.0	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5861.68	27.95	3.85	34.66	66.46	Marker	Horizontal	141	363	68.2	-1.8	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



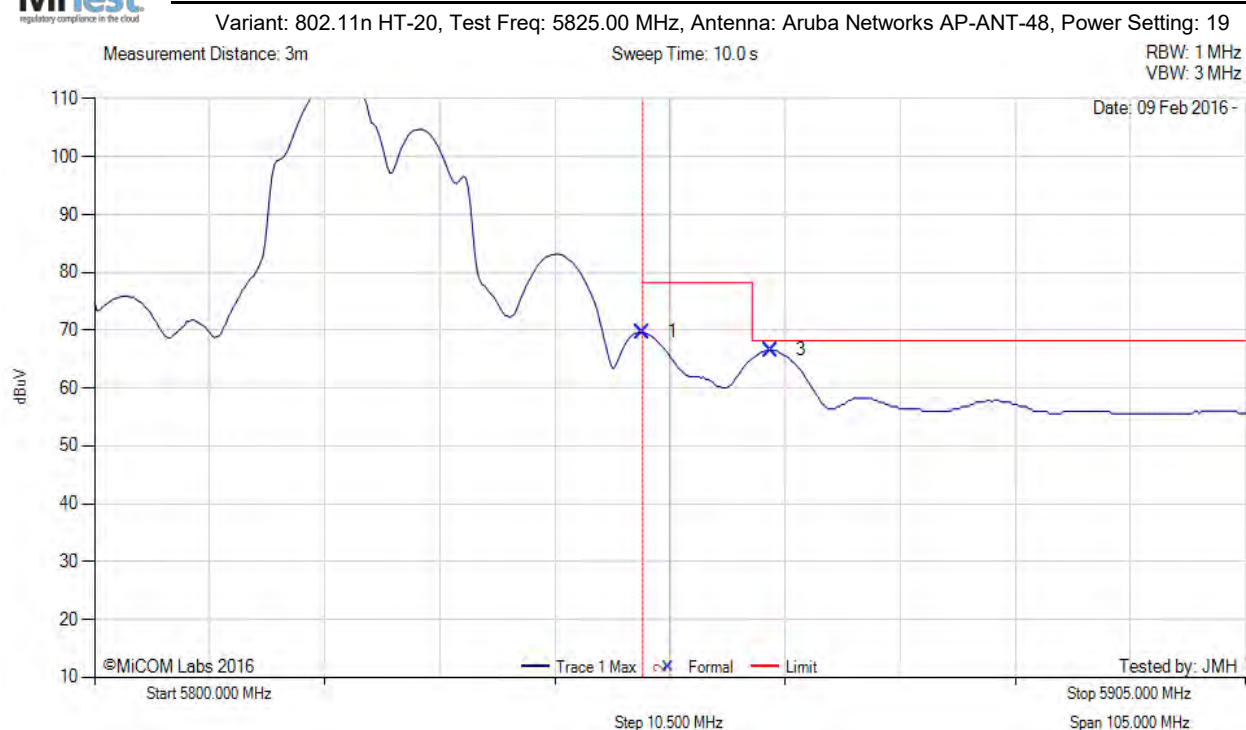
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5852.31	32.30	3.82	34.63	70.75	Marker	Horizontal	141	363	78.2	-7.5	Pass
3	5871.78	28.50	3.80	34.69	66.99	Marker	Horizontal	141	363	68.2	-1.2	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



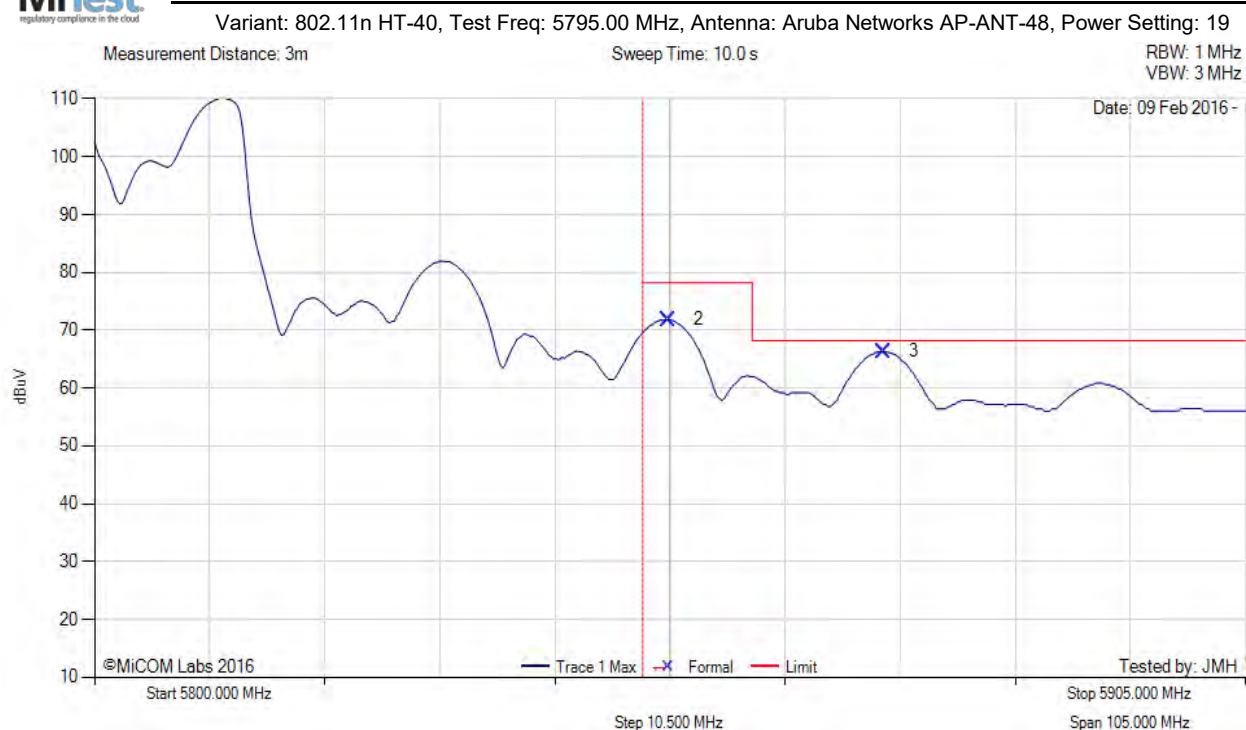
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	31.21	3.81	34.63	69.65	Marker	Horizontal	141	363	78.2	-8.6	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5861.68	28.08	3.85	34.66	66.59	Marker	Horizontal	141	363	68.2	-1.6	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5852.31	33.41	3.82	34.63	71.86	Marker	Horizontal	141	363	78.2	-6.4	Pass
3	5871.99	27.86	3.80	34.69	66.35	Marker	Horizontal	141	363	68.2	-1.9	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

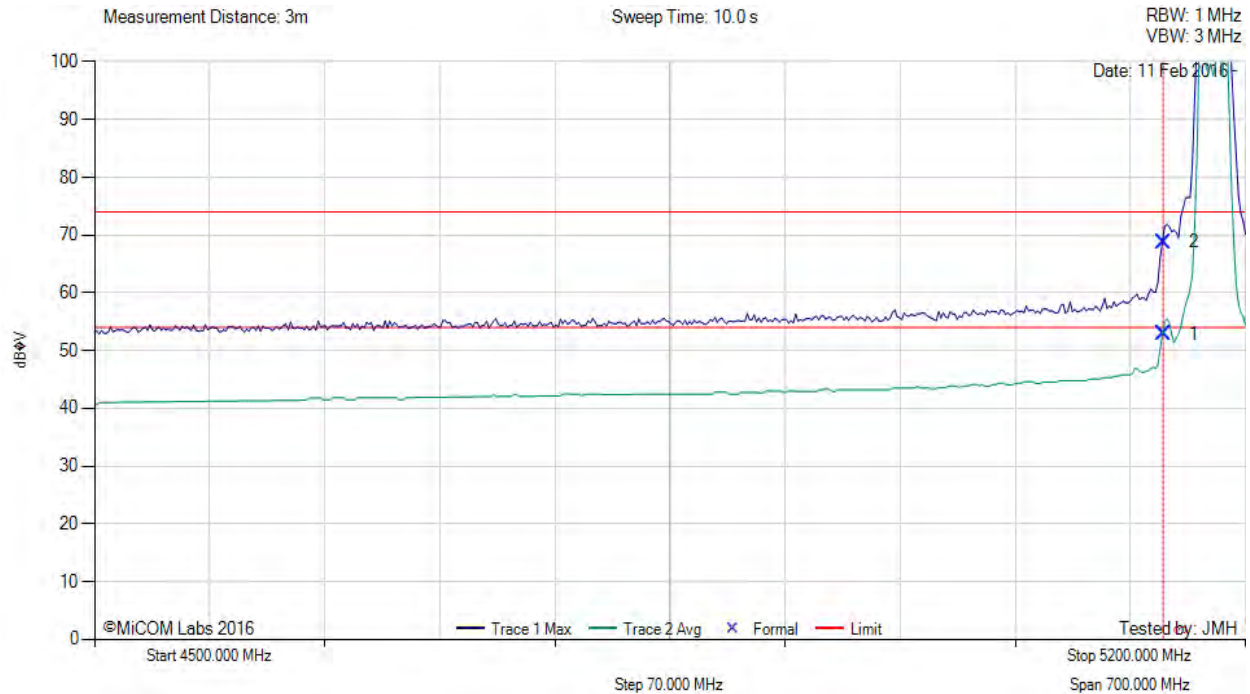
[back to matrix](#)

A.1.2.16. Metal Sheet



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11a, Test Freq: 5180.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 17



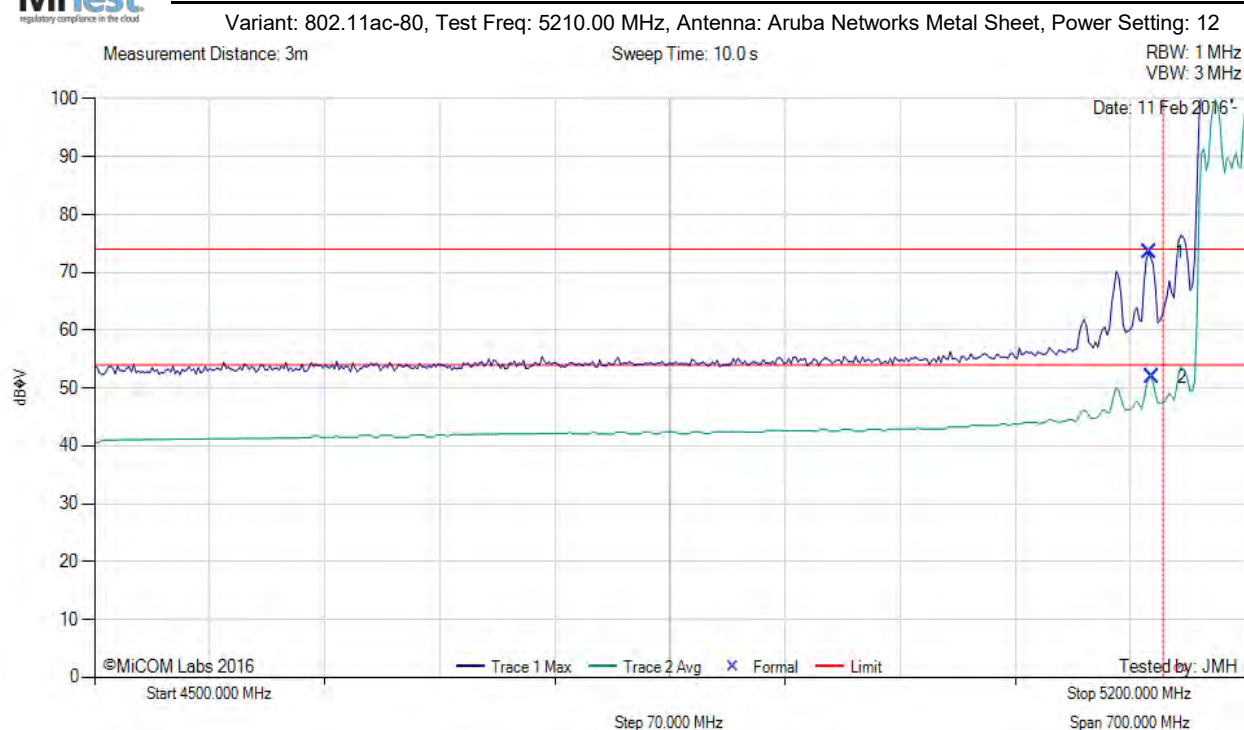
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	15.07	3.67	34.11	52.85	Max Avg	Vertical	169	334	54.0	-1.2	Pass
2	5150.00	30.99	3.67	34.11	68.77	Max Peak	Vertical	169	334	74.0	-5.2	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5141.58	35.59	3.70	34.12	73.41	Max Peak	Vertical	169	334	74.0	-0.6	Pass
2	5142.99	14.05	3.70	34.12	51.87	Max Avg	Vertical	169	334	54.0	-2.1	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5180.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 17

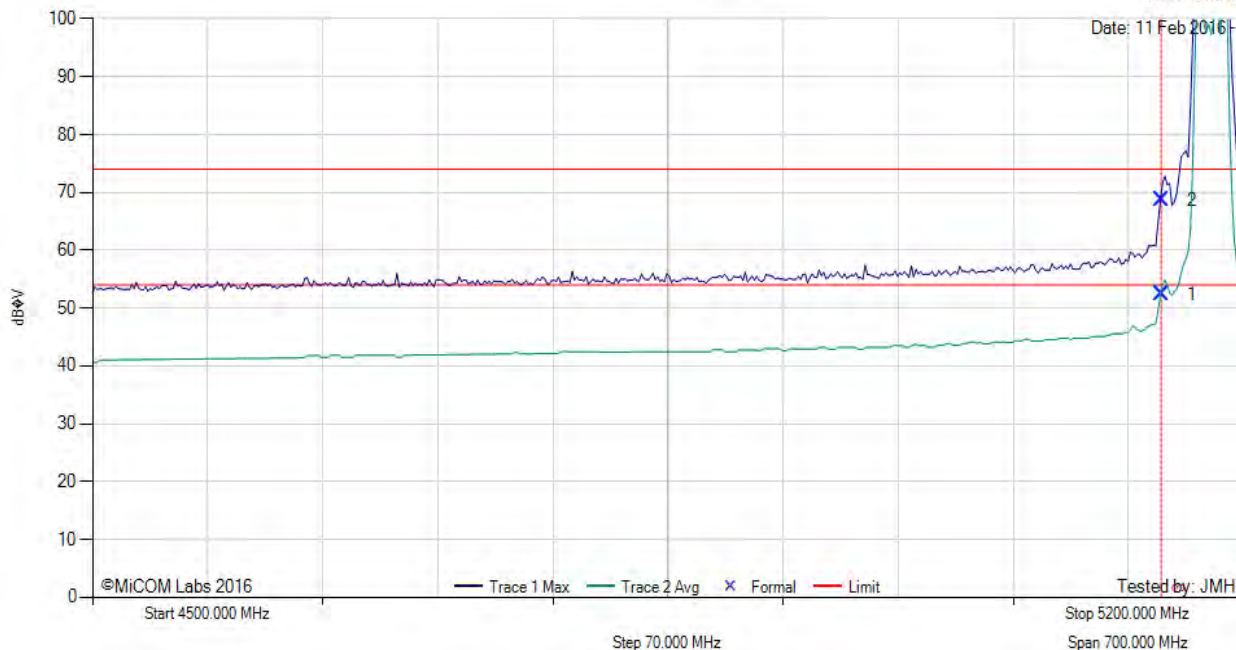
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	14.65	3.67	34.11	52.43	Max Avg	Vertical	169	334	54.0	-1.6	Pass
2	5150.00	30.92	3.67	34.11	68.70	Max Peak	Vertical	169	334	74.0	-5.3	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



RESTRICTED LOWER BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5190.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 16

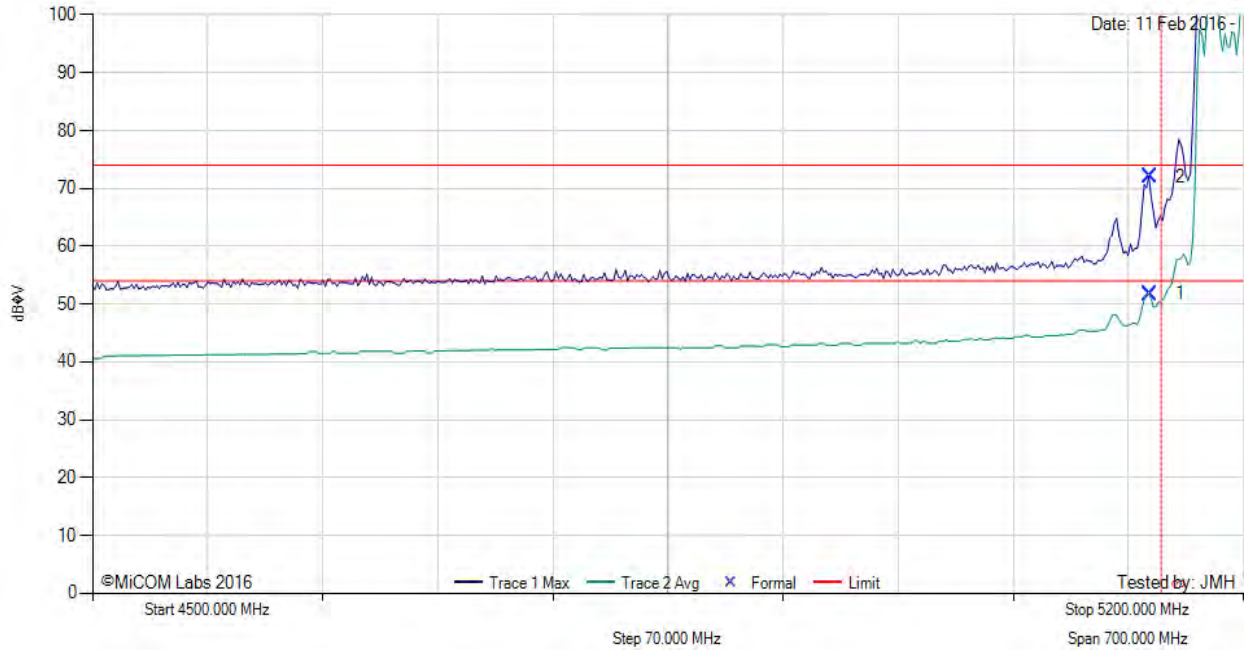
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016



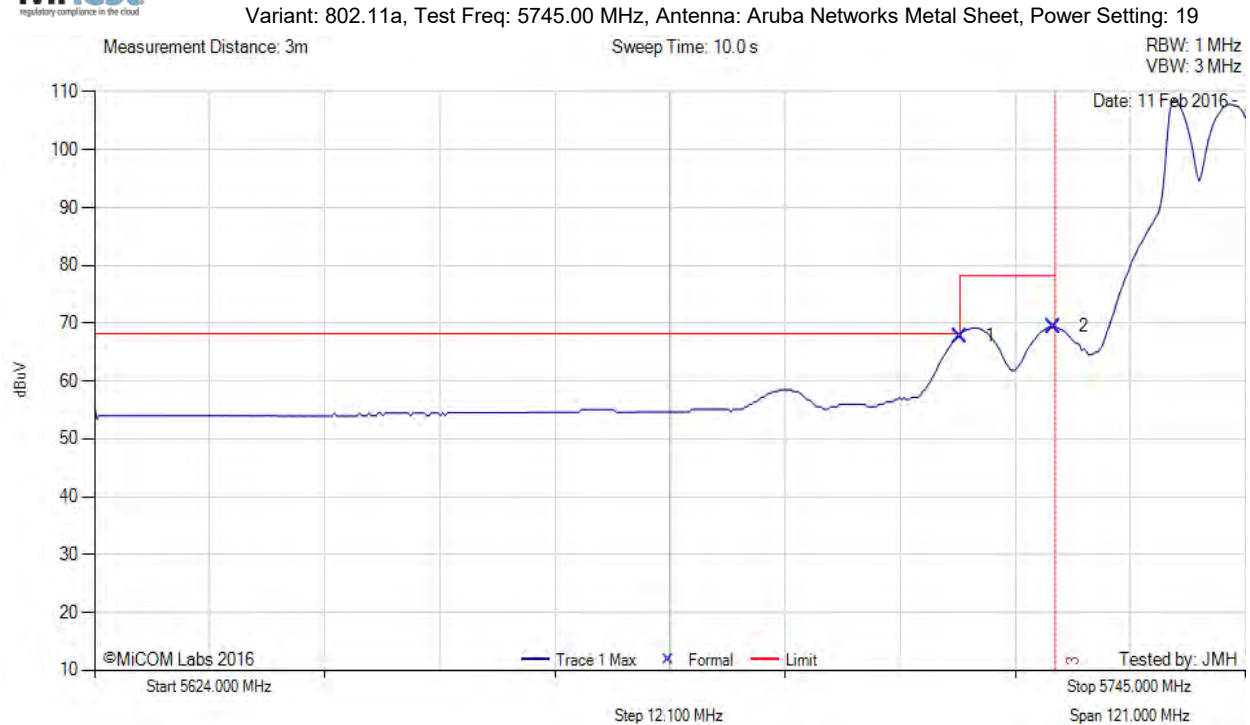
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5142.99	13.94	3.70	34.12	51.76	Max Avg	Vertical	169	334	54.0	-2.2	Pass
2	5142.99	34.15	3.70	34.12	71.97	Max Peak	Vertical	169	334	74.0	-2.0	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



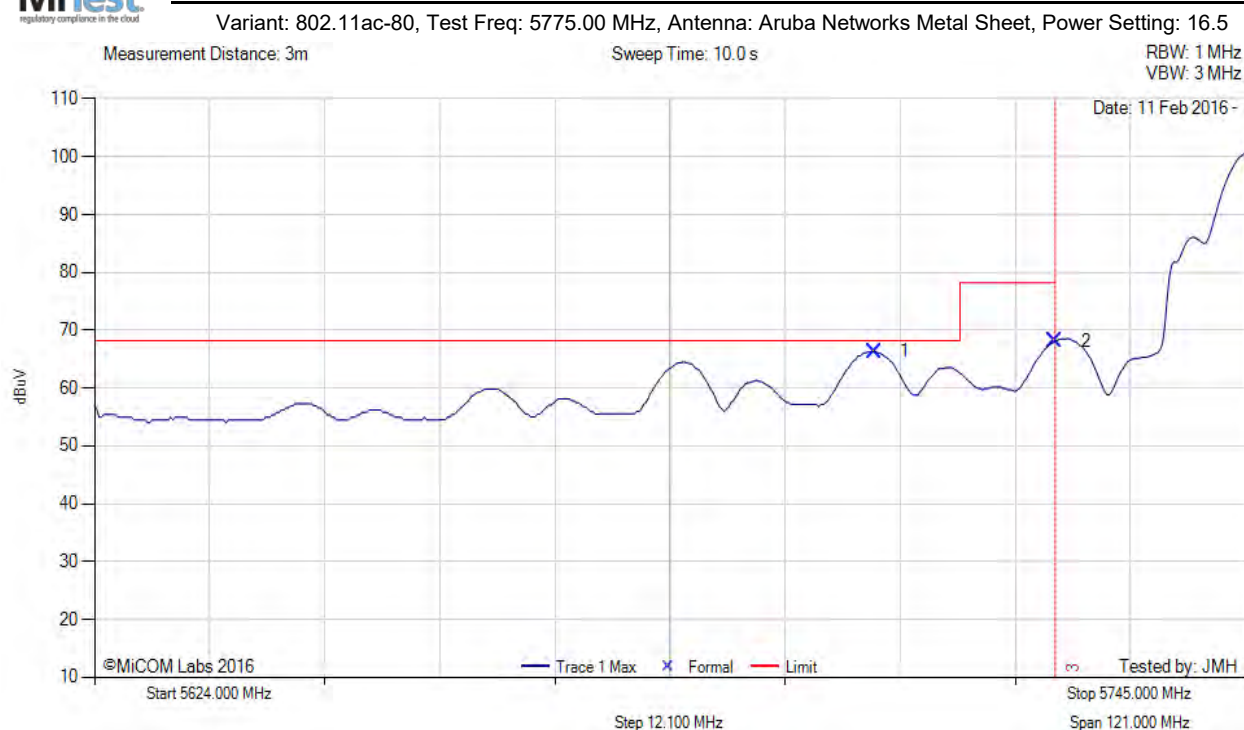
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5715.00	29.59	3.81	34.34	67.74	Marker	Vertical	175	335	68.2	-0.5	Pass
2	5724.76	31.27	3.79	34.35	69.41	Marker	Vertical	175	335	78.2	-8.8	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5706.03	28.15	3.86	34.33	66.34	Marker	Vertical	175	335	68.2	-1.9	Pass
2	5725.00	30.03	3.79	34.35	68.17	Marker	Vertical	175	335	78.2	-10.1	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

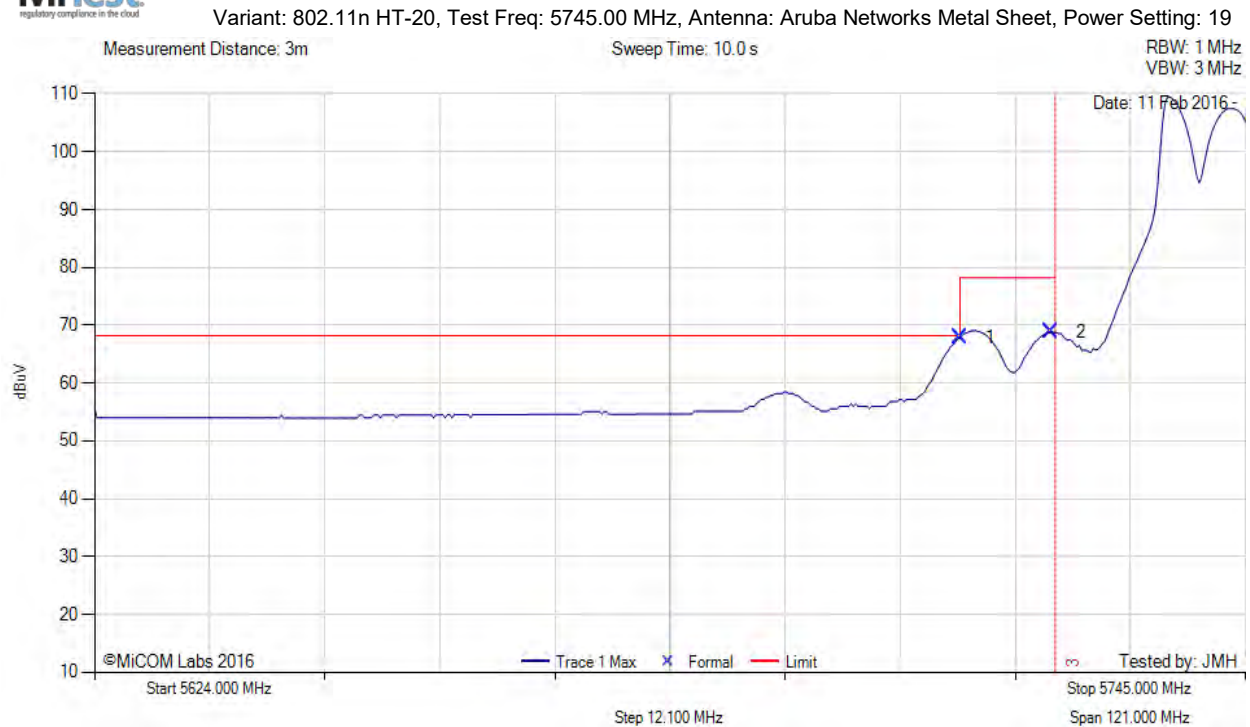
[back to matrix](#)



Title: APIN0314, APIN0315
To: FCC CFR 47 Part 15 Subpart E 15.407
Serial #: ARUB204-U8_Radiated Rev A
Issue Date: 8th April 2016
Page: 308 of 320



5725 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5715.00	29.70	3.81	34.34	67.85	Marker	Vertical	175	335	68.2	-0.4	Pass
2	5724.52	30.72	3.79	34.35	68.86	Marker	Vertical	175	335	78.2	-9.4	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

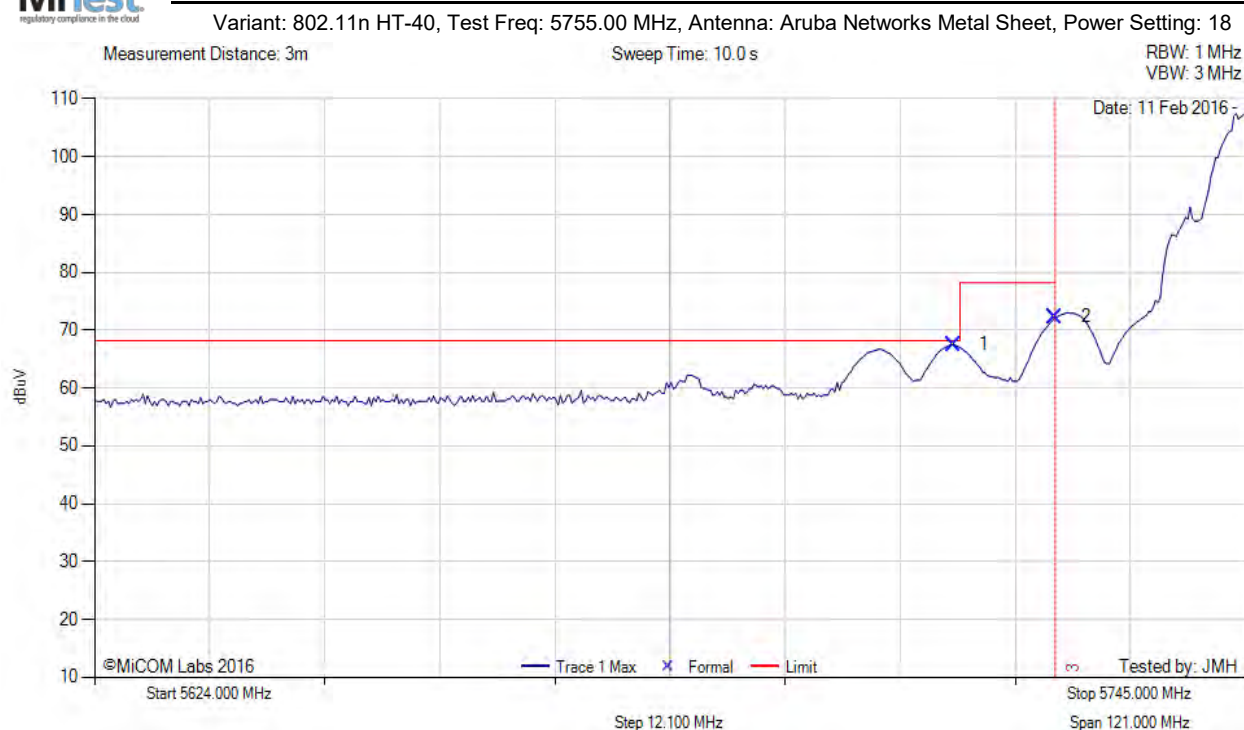
Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

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5725 MHz RADIATED BAND-EDGE EMISSIONS



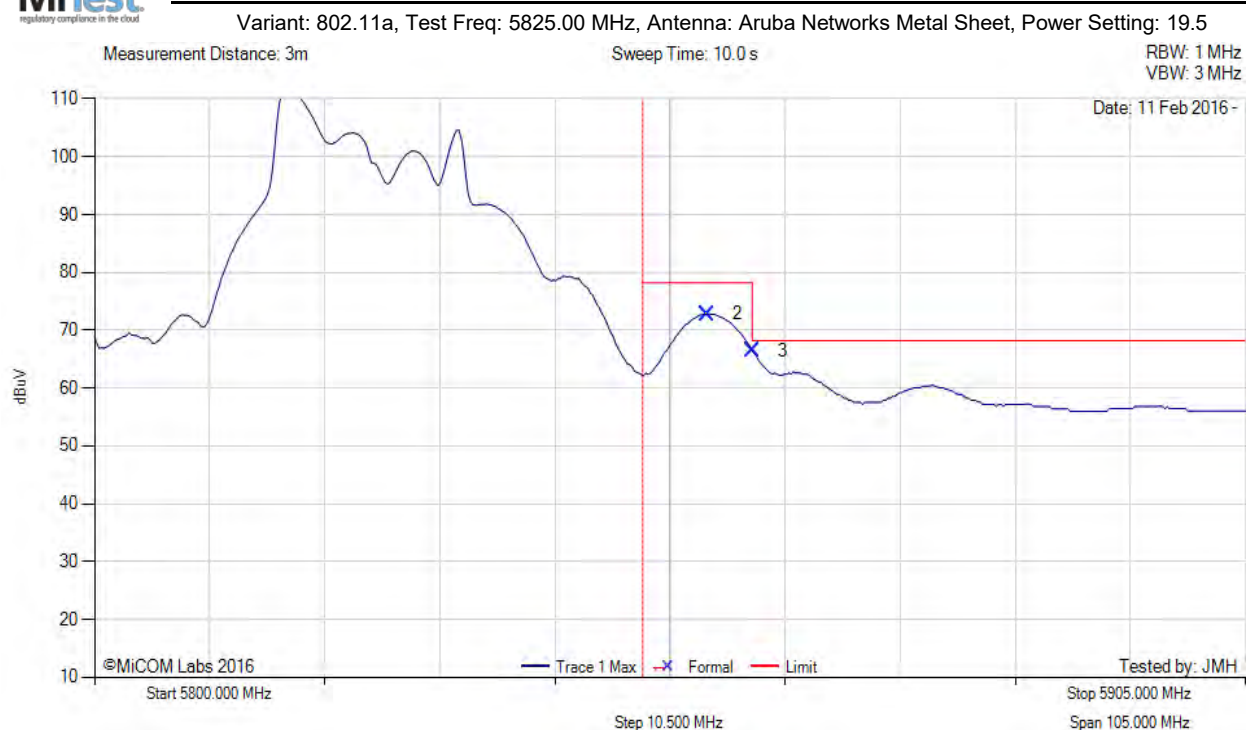
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5714.27	29.36	3.82	34.34	67.52	Marker	Vertical	175	335	68.2	-0.7	Pass
2	5725.00	34.18	3.79	34.35	72.32	Marker	Vertical	175	335	78.2	-5.9	Pass
3	5725.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



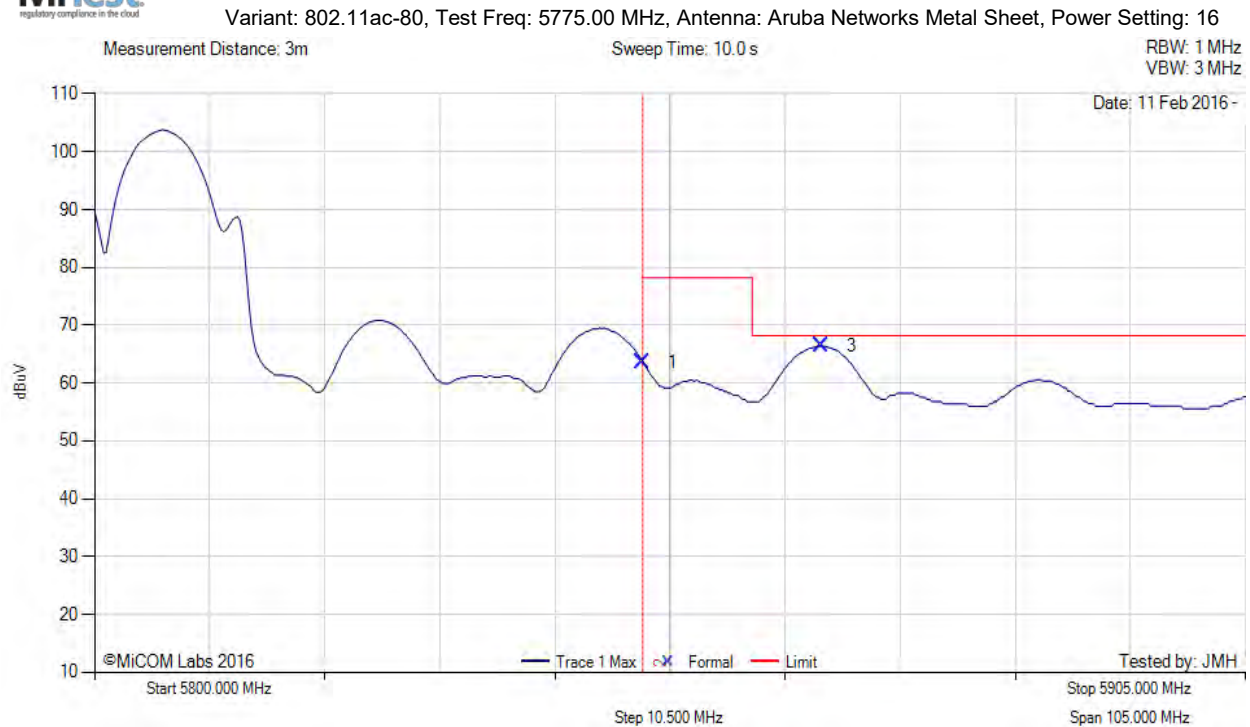
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5855.89	34.31	3.84	34.64	72.79	Marker	Vertical	186	25	78.2	-5.4	Pass
3	5860.00	27.95	3.86	34.65	66.46	Marker	Vertical	186	25	78.2	-11.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	25.10	3.81	34.63	63.54	Marker	Vertical	186	25	78.2	-14.7	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5866.31	27.97	3.83	34.67	66.47	Marker	Vertical	186	25	68.2	-1.8	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-20, Test Freq: 5825.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 19.5

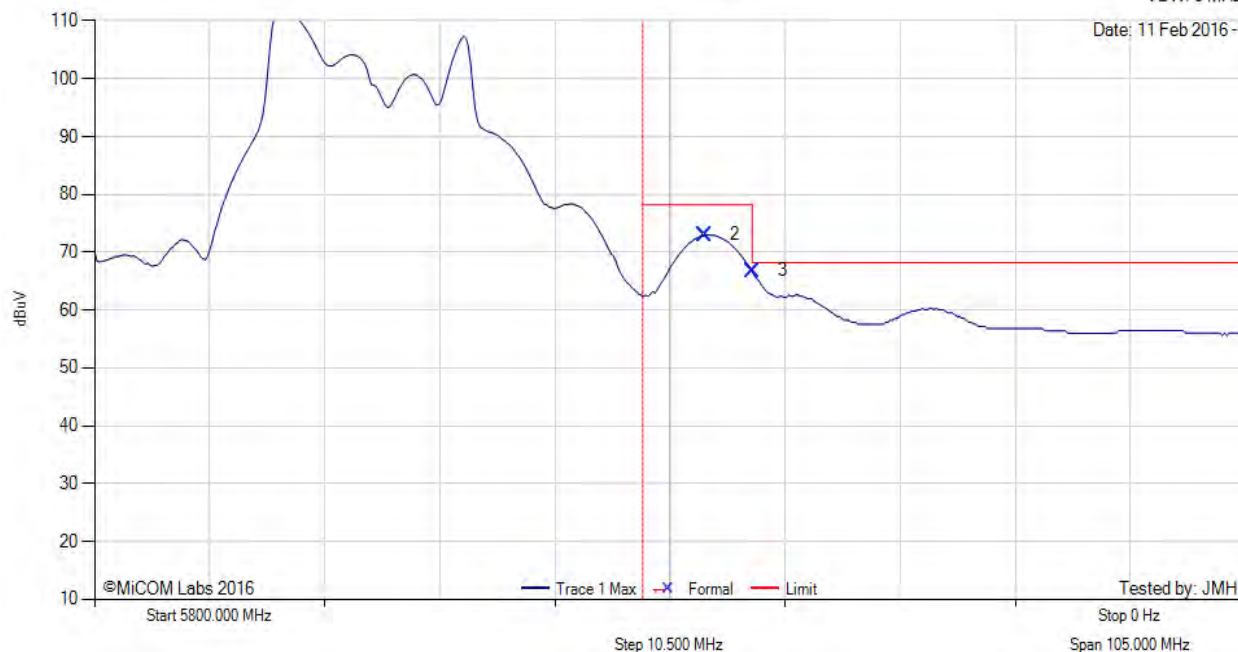
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
2	5855.68	34.56	3.84	34.64	73.04	Marker	Vertical	186	25	78.2	-5.2	Pass
3	5860.00	28.33	3.86	34.65	66.84	Marker	Vertical	186	25	78.2	-11.4	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS

Variant: 802.11n HT-40, Test Freq: 5795.00 MHz, Antenna: Aruba Networks Metal Sheet, Power Setting: 19

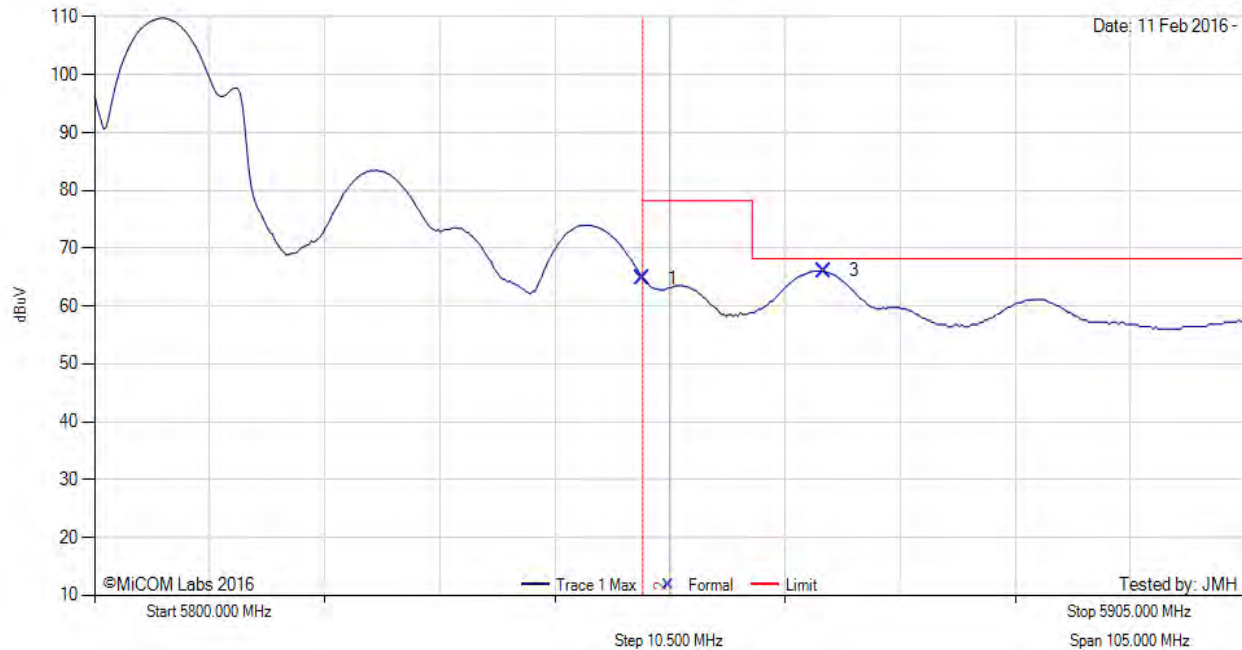
Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz

VBW: 3 MHz

Date: 11 Feb 2016 -



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	26.28	3.81	34.63	64.72	Marker	Vertical	186	25	78.2	-13.5	Pass
2	5850.00	0.00	0.00	0.00	--	Band-Edge		0	0	--	--	
3	5866.52	27.58	3.83	34.67	66.08	Marker	Vertical	186	25	68.2	-2.2	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)

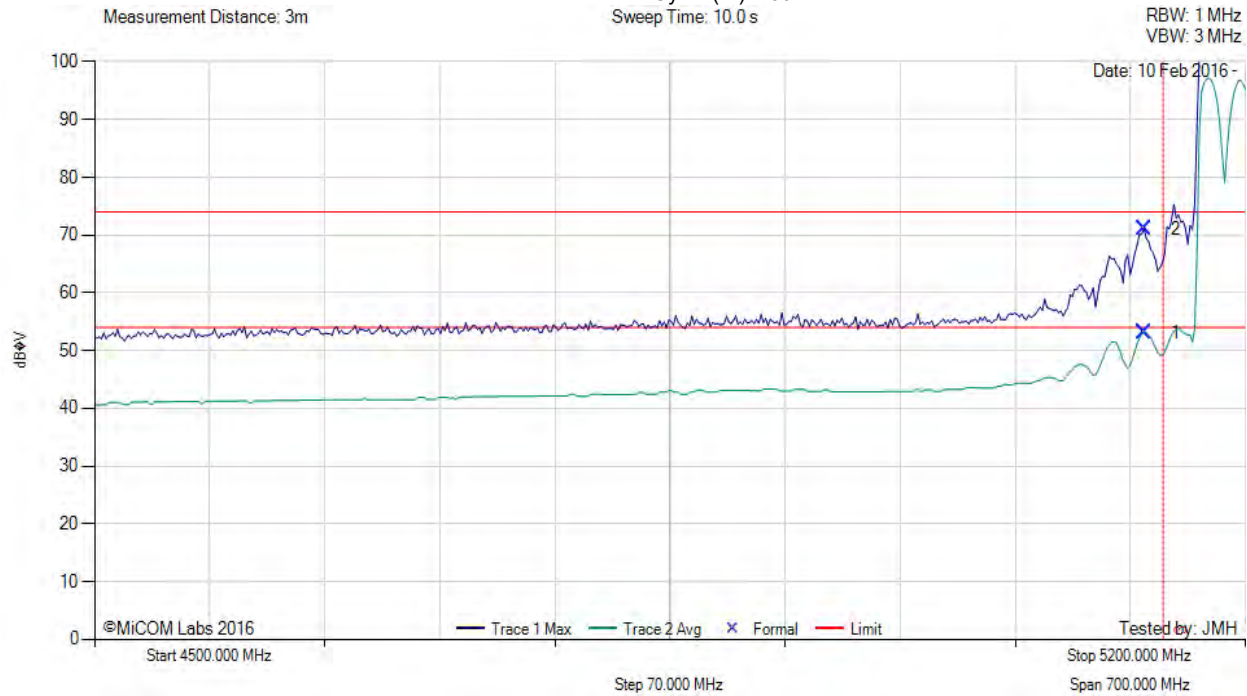
A.1.2.17. ac80+80 Operation

A.1.2.9.1 AP-ANT-40

RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 802.11ac-80, Test Freq: 5210.00 MHz, Antenna: Aruba Networks AP-ANT-40, Power Setting: 15, Duty Cycle (%): 100



Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5138.78	15.32	3.70	34.12	53.14	Max Avg	Horizontal	160	27	54.0	-0.9	Pass
2	5138.78	33.27	3.70	34.12	71.09	Max Peak	Horizontal	160	27	74.0	-2.9	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	--

Test Notes: EUT on 150cm table powered by POE. Connected to laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS

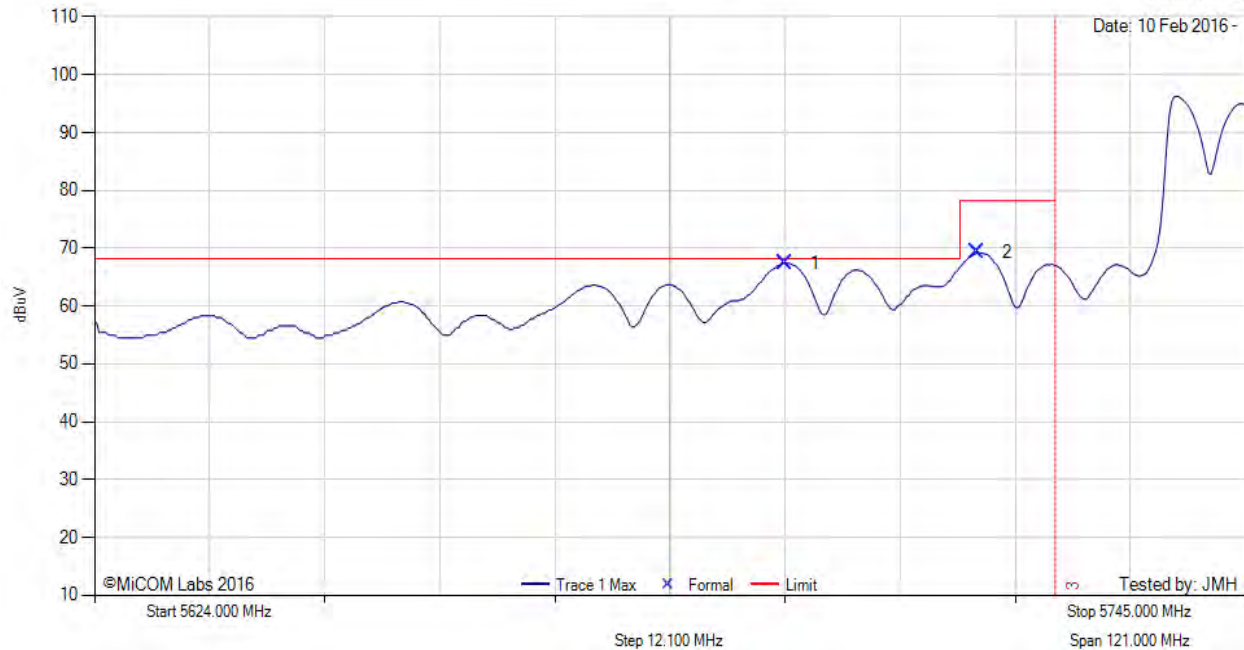
Variant: 802.11ac-80, Test Freq: 5775.00 MHz, Antenna: Aruba Networks AP-ANT-40, Power Setting: 17.5

Measurement Distance: 3m

Sweep Time: 10.0 s

RBW: 1 MHz
VBW: 3 MHz

Date: 10 Feb 2016 -



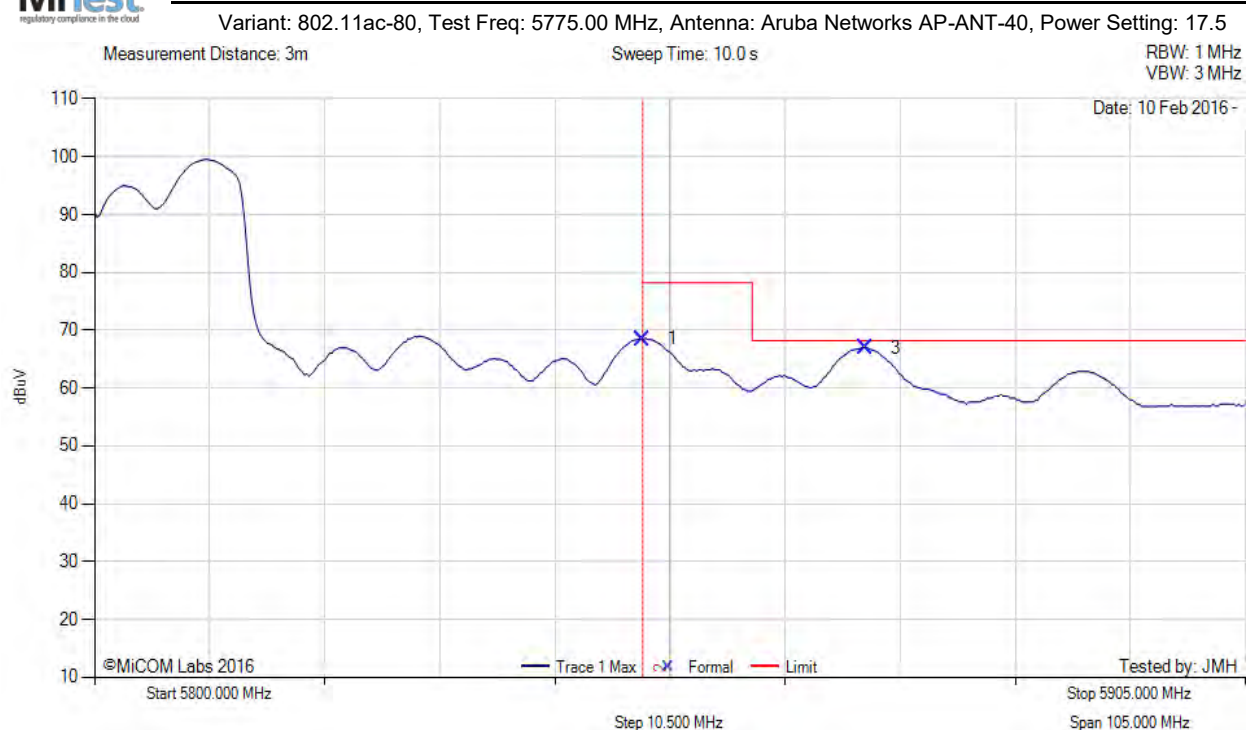
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5696.57	29.22	3.86	34.32	67.40	Marker	Horizontal	153	303	68.2	-0.8	Pass
2	5716.76	31.16	3.81	34.34	69.31	Marker	Horizontal	153	303	78.2	-8.9	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	30.06	3.81	34.63	68.50	Marker	Horizontal	116	304	78.2	-9.7	Pass
2	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	
3	5870.31	28.49	3.81	34.68	66.98	Marker	Horizontal	116	304	68.2	-1.3	Pass

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

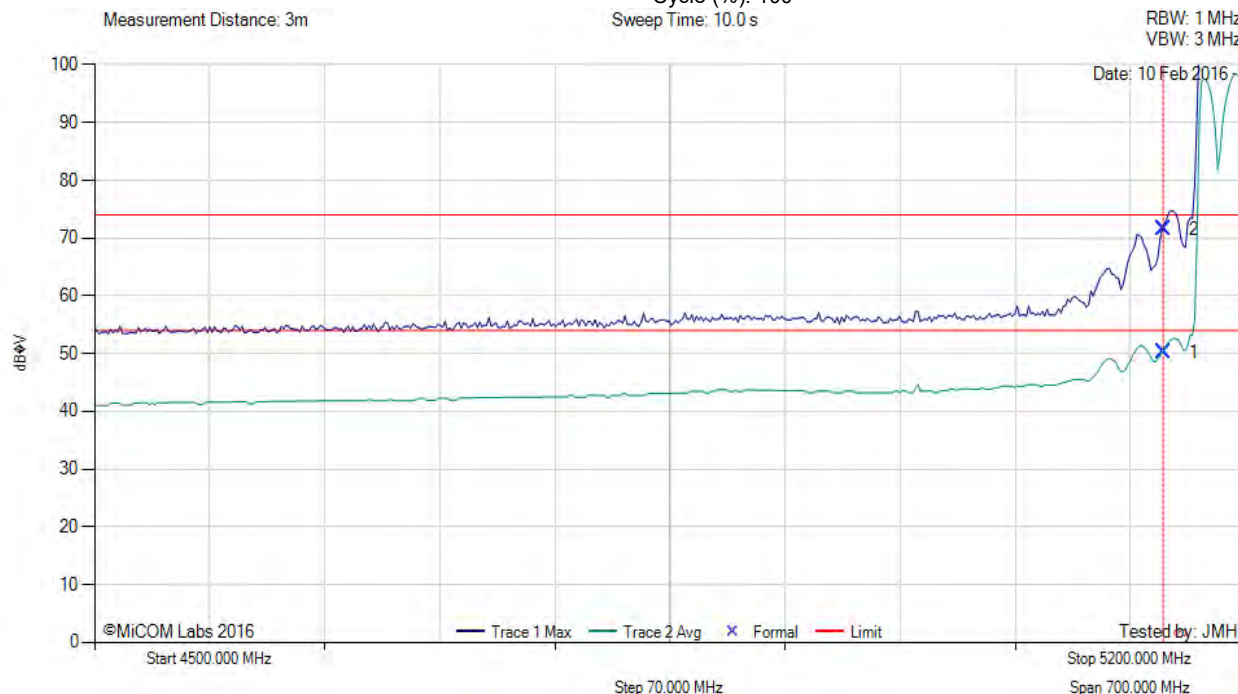
[back to matrix](#)

A.1.2.9.1 AP-ANT-48

RESTRICTED LOWER BAND-EDGE EMISSIONS



Variant: 802.11ac-80, Test Freq: 5210.00 MHz, Antenna: Aruba Networks AP-ANT-48, Power Setting: 12.5, Duty Cycle (%): 100



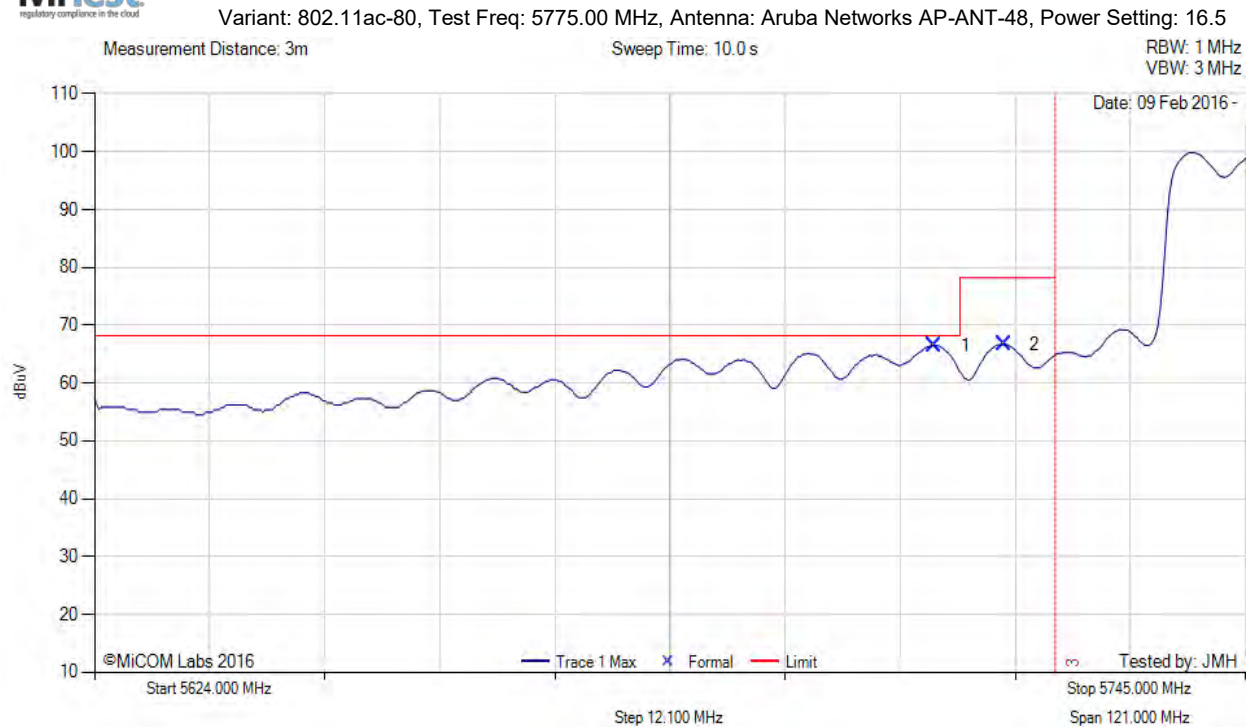
Num	Frequency MHz	Raw dBμV	Cable Loss	AF dB	Level dBμV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBμV/m	Margin dB	Pass /Fail
1	5150.00	12.47	3.67	34.11	50.25	Max Avg	Horizontal	131	360	54.0	-3.8	Pass
2	5150.00	33.79	3.67	34.11	71.57	Max Peak	Horizontal	131	360	74.0	-2.4	Pass
3	5150.00	--	--	--	--	Band-Edge	--	--	--	--	--	

Test Notes: EUT on 150cm table powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5725 MHz RADIATED BAND-EDGE EMISSIONS



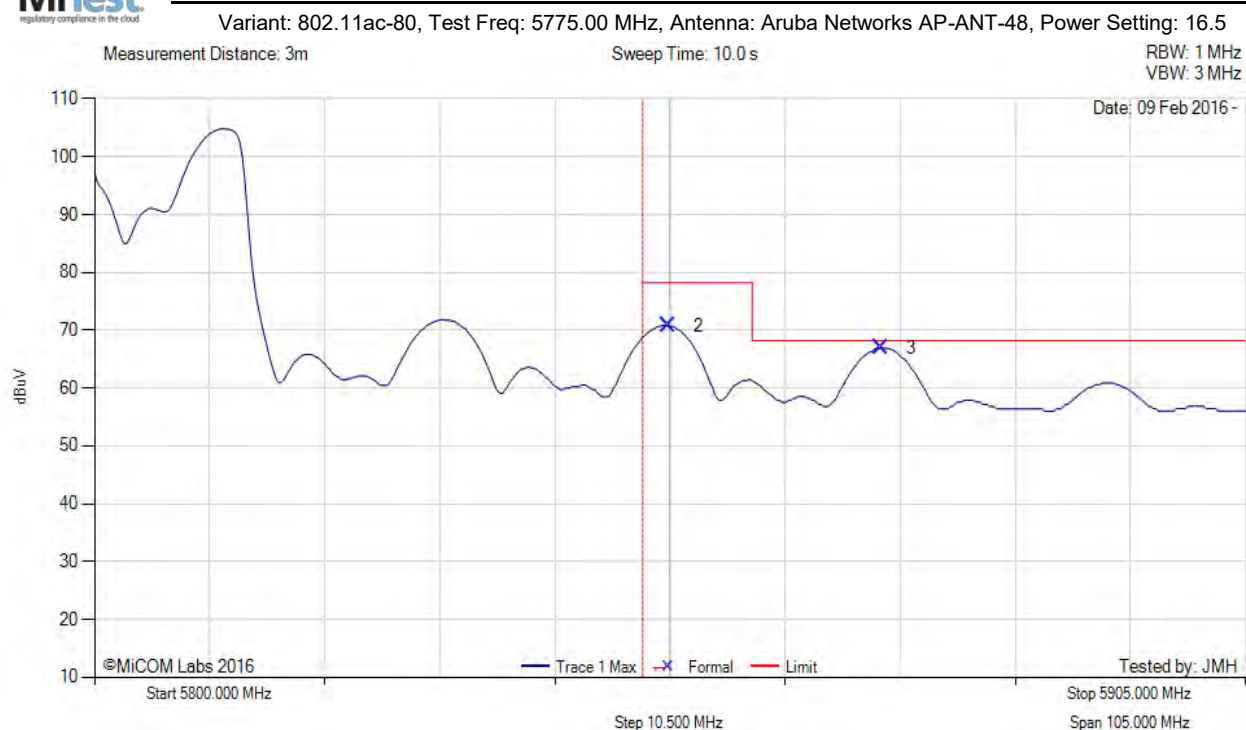
Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5712.33	28.30	3.83	34.34	66.47	Marker	Horizontal	162	360	68.2	-1.8	Pass
2	5719.67	28.57	3.80	34.35	66.72	Marker	Horizontal	162	360	78.2	-11.5	Pass
3	5725.00	--	--	--	--	Band-Edge	--	--	--	--	--	

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



5850 MHz RADIATED BAND-EDGE EMISSIONS



Num	Frequency MHz	Raw dBuV	Cable Loss	AF dB	Level dBuV/m	Measurement Type	Pol	Hgt cm	Azt Deg	Limit dBuV/m	Margin dB	Pass /Fail
1	5850.00	--	--	--	--	Band-Edge	--	--	--	--	--	
2	5852.31	32.30	3.82	34.63	70.75	Marker	Horizontal	141	363	78.2	-7.5	Pass
3	5871.78	28.50	3.80	34.69	66.99	Marker	Horizontal	141	363	68.2	-1.2	Pass

Test Notes: EUT on 150cm table, powered by POE. Connected to Laptop outside chamber

[back to matrix](#)



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