


ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

6/26 dB Bandwidth and Occupied Bandwidth Test

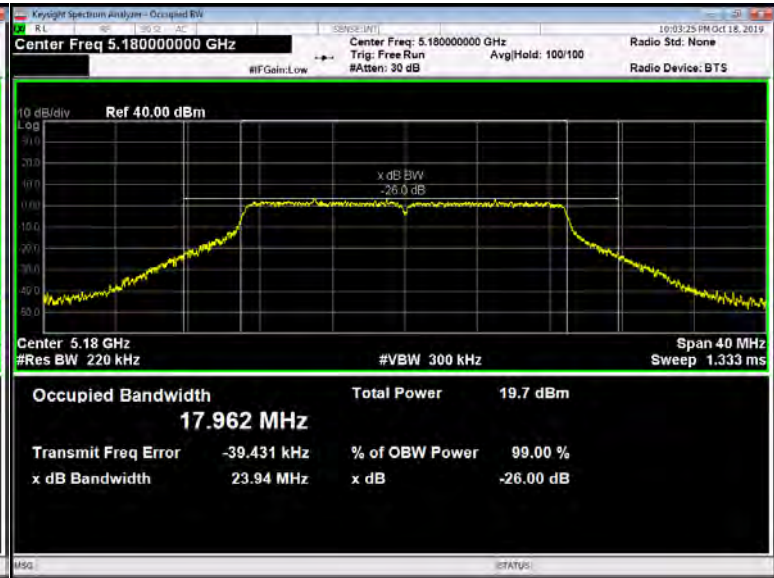
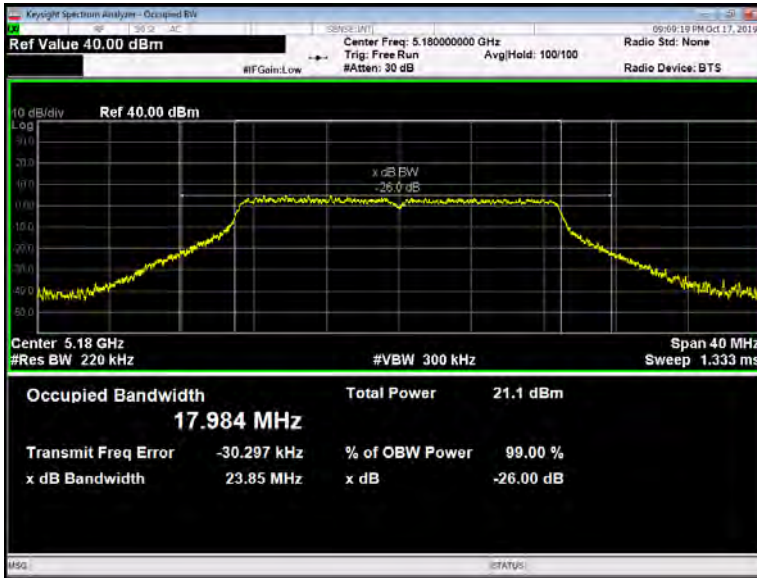
Company:	Airspan Networks		Test Date:	10/17/2019			
EUT Name:	Access Point		Test Engineer:	Andreas Davidsson			
Model:	A5x		Test Result:	PASS			
Operating Mode:	TX Mode						
Mode	Antenna	Test CH	Frequency (MHz)	6/26 dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	6/26 dB Bandwidth Limit (MHz)	Conclusion
U-NII-1	1	36	5180	23.85	17.984	≥ 0.5	PASS
	2	36	5180	23.94	17.962	≥ 0.5	PASS
	1	44	5220	24.22	18.055	≥ 0.5	PASS
	2	44	5220	24.31	17.928	≥ 0.5	PASS
	1	48	5240	24.36	17.994	≥ 0.5	PASS
	2	48	5240	23.82	17.873	≥ 0.5	PASS
	1	38	5190	42.48	36.476	≥ 0.5	PASS
	2	38	5190	42.45	36.430	≥ 0.5	PASS
	1	46	5230	42.90	36.495	≥ 0.5	PASS
	2	46	5230	42.22	36.412	≥ 0.5	PASS
	1	42	5210	92.09	75.475	≥ 0.5	PASS
	2	42	5210	82.31	75.390	≥ 0.5	PASS
U-NII-3	1	149	5745	17.58	17.754	≥ 0.5	PASS
	2	149	5745	17.62	17.734	≥ 0.5	PASS
	1	157	5785	17.75	17.756	≥ 0.5	PASS
	2	157	5785	17.59	17.737	≥ 0.5	PASS
	1	165	5825	17.80	17.756	≥ 0.5	PASS
	2	165	5825	17.58	17.748	≥ 0.5	PASS
	1	151	5755	36.30	36.217	≥ 0.5	PASS
	2	151	5755	36.31	36.240	≥ 0.5	PASS
	1	159	5795	36.31	36.245	≥ 0.5	PASS
	2	159	5795	36.34	36.232	≥ 0.5	PASS
	1	155	5775	75.29	75.284	≥ 0.5	PASS
	2	155	5775	75.44	75.304	≥ 0.5	PASS
Test Equipment: Please refer to section 5.2							



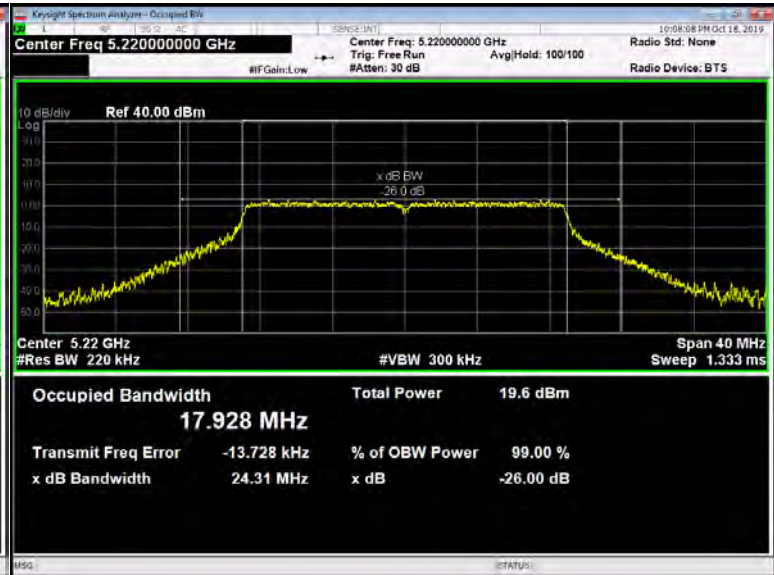
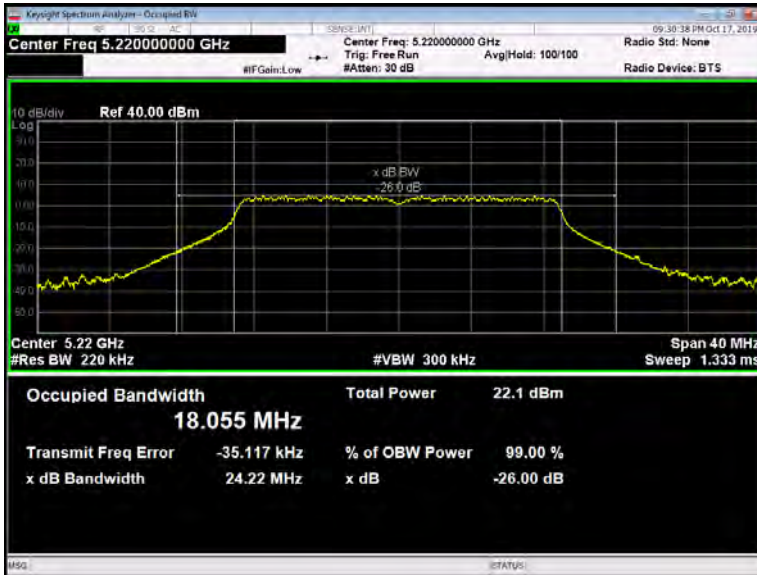
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**Antenna 1 + 2
Channel 36 (5180MHz)**



**Antenna 1 + 2
Channel 44 (5220MHz)**

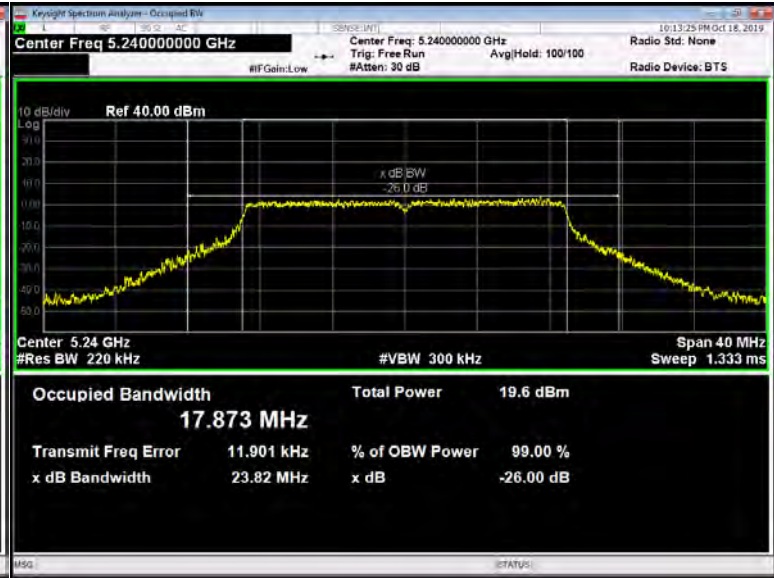
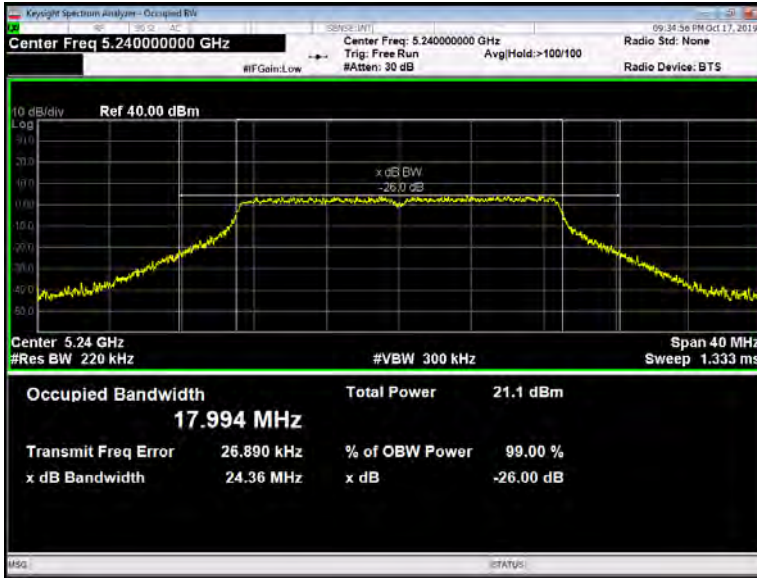




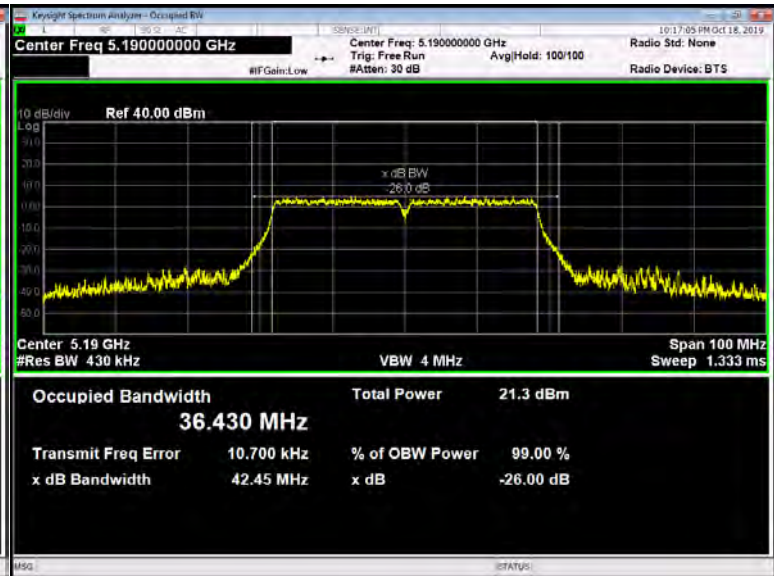
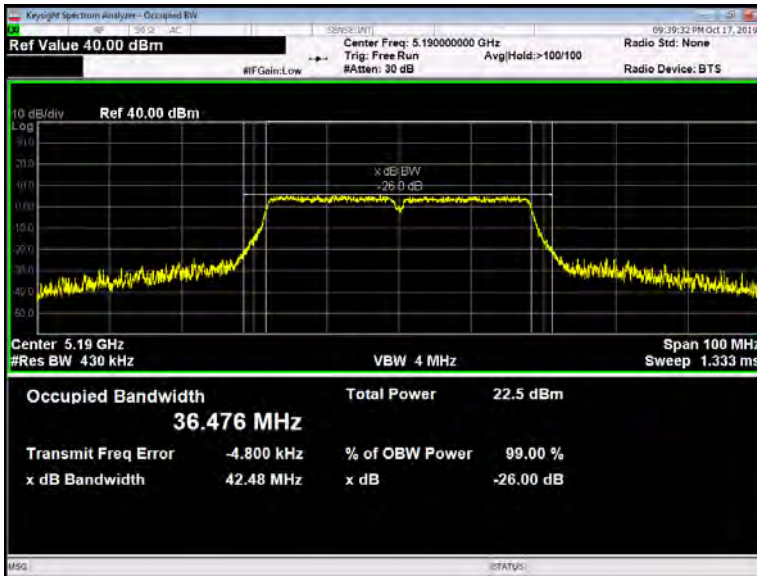
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**Antenna 1 + 2
Channel 48 (5240MHz)**



**Antenna 1 + 2
Channel 38 (5190MHz)**

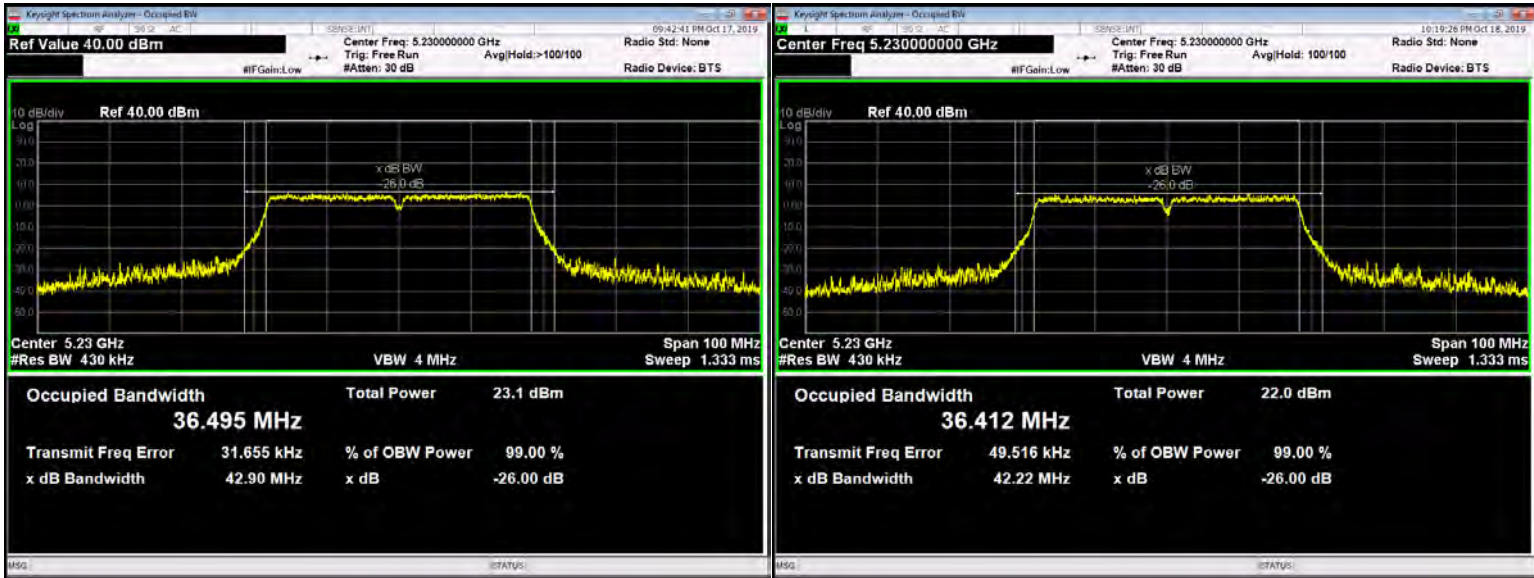




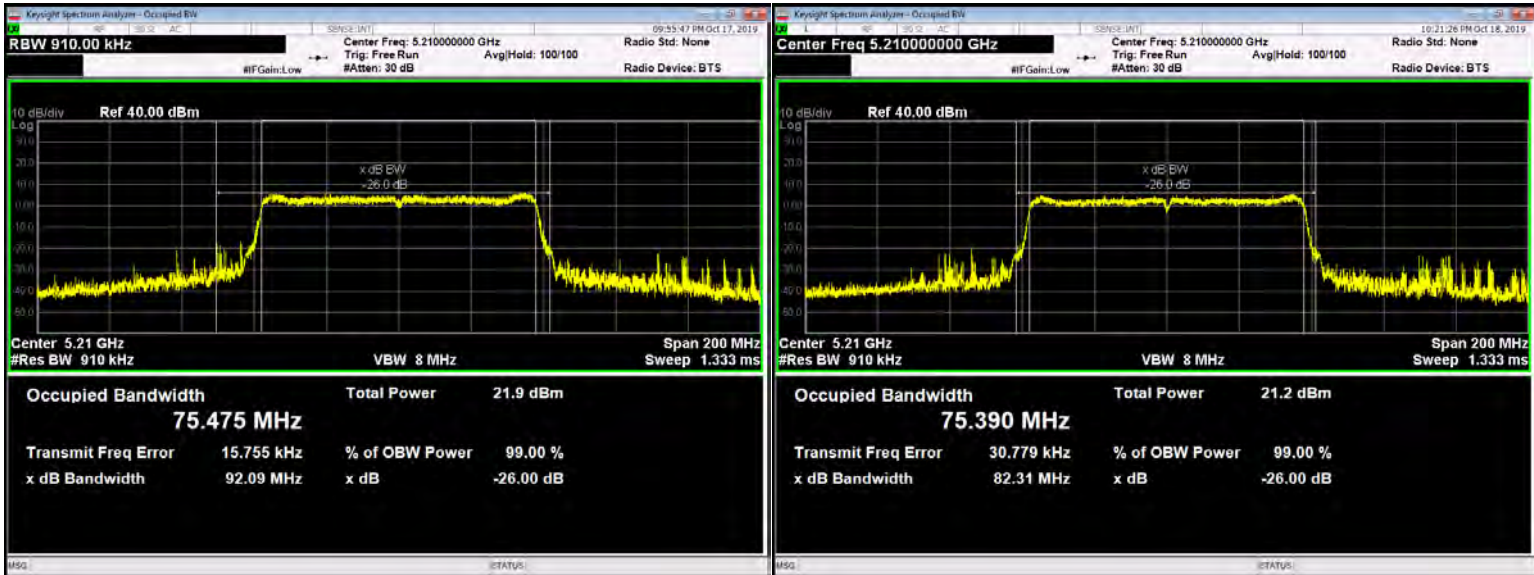
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**Antenna 1 + 2
Channel 46 (5230MHz)**



**Antenna 1 + 2
Channel 42 (5210MHz)**

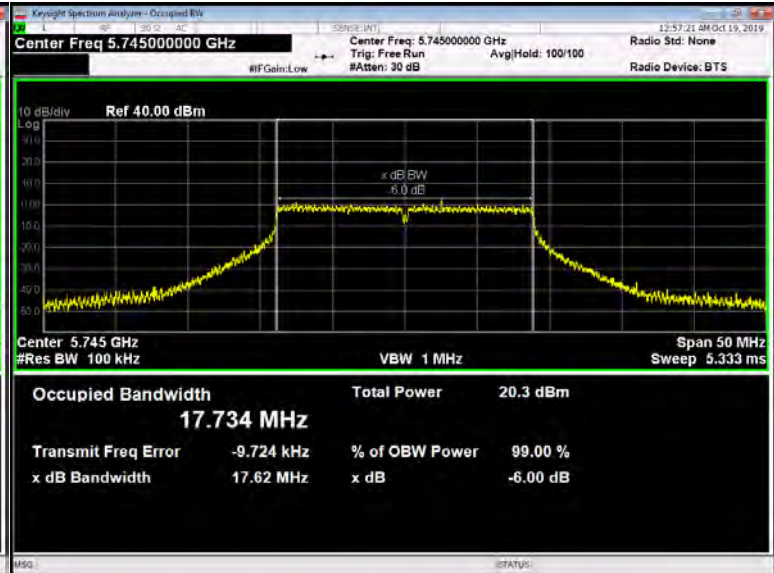
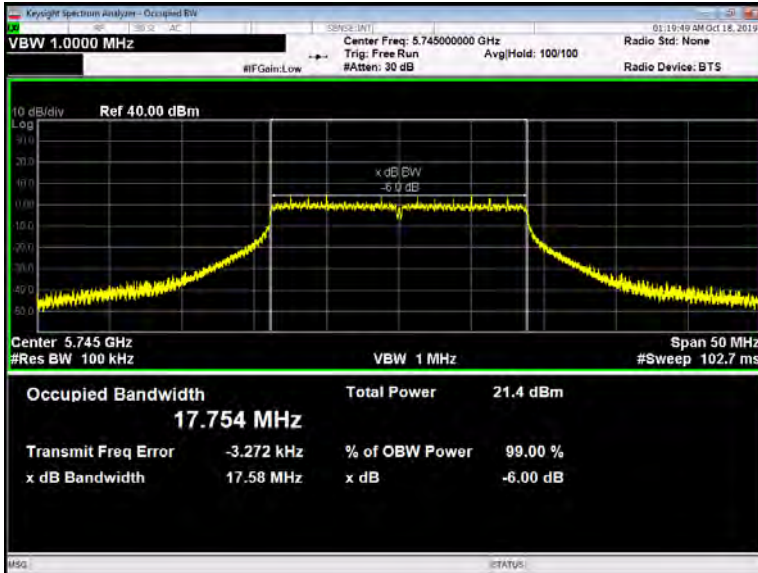




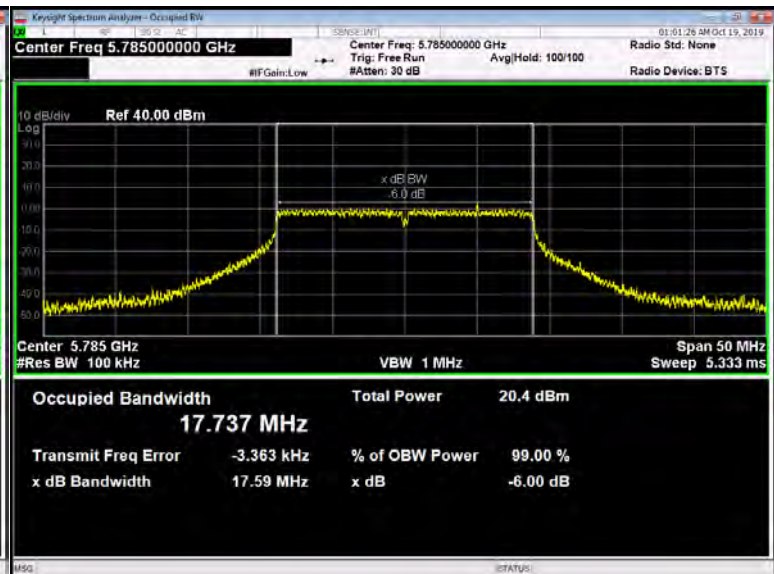
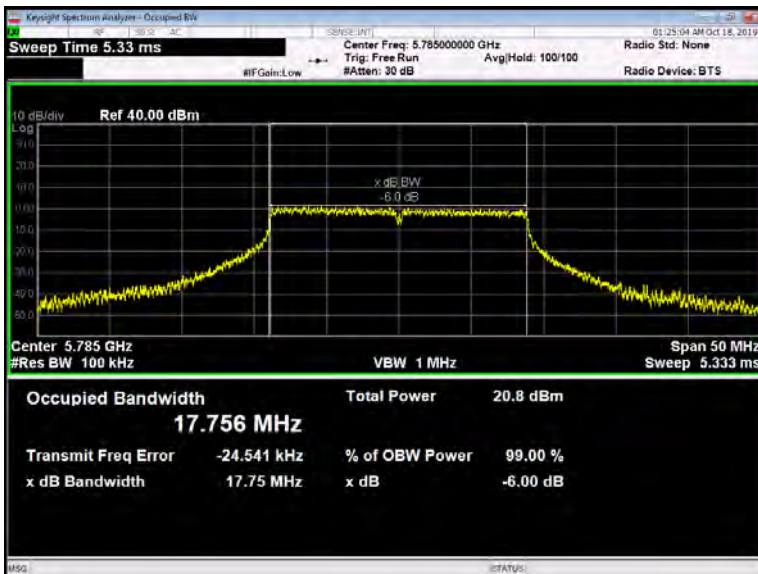
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**Antenna 1 + 2
Channel 149 (5745MHz)**



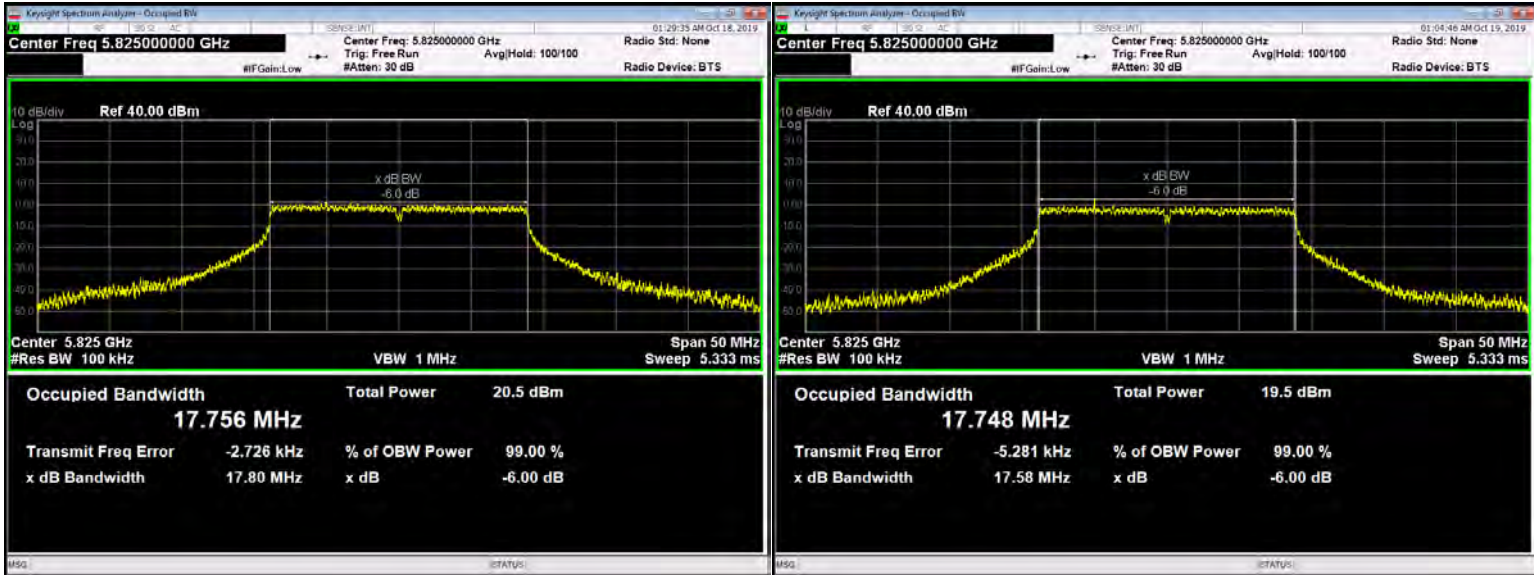
**Antenna 1 + 2
Channel 157 (5785MHz)**



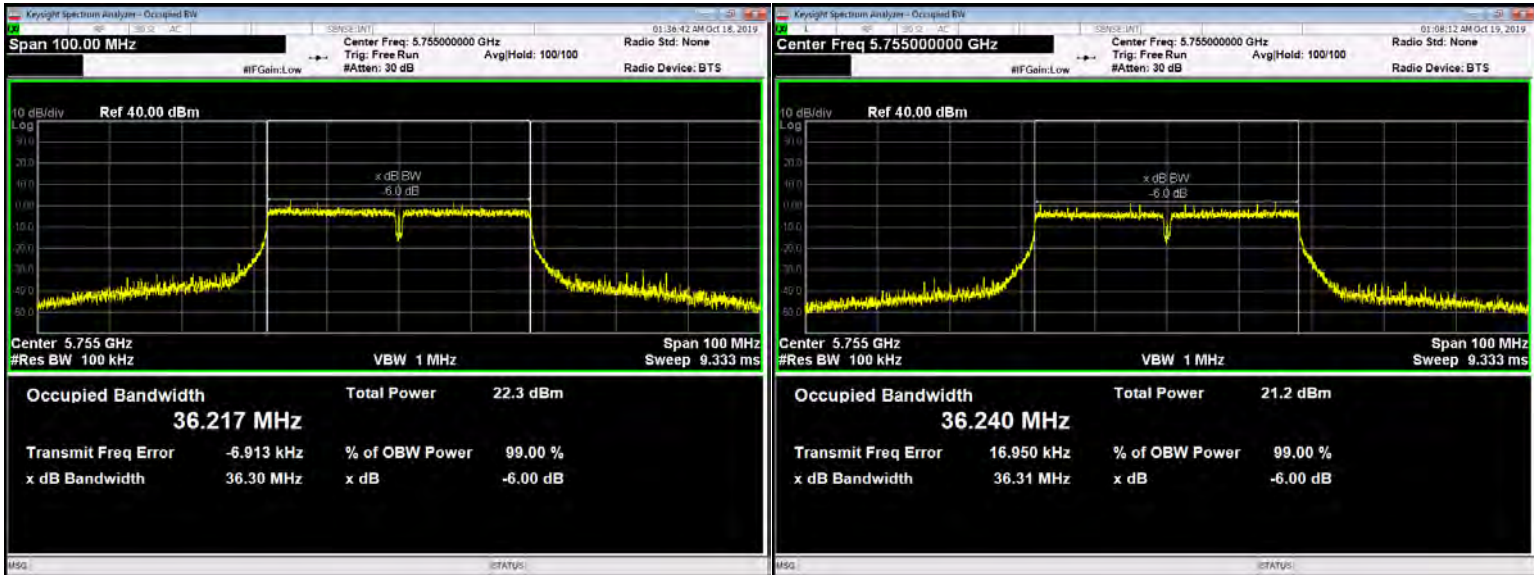


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Antenna 1 + 2 Channel 165 (5825MHz)



Antenna 1 + 2 Channel 151 (5755MHz)

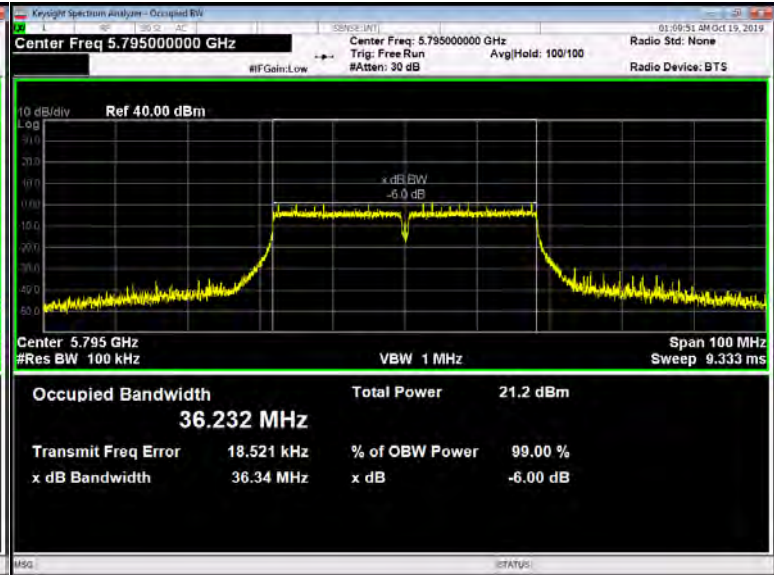
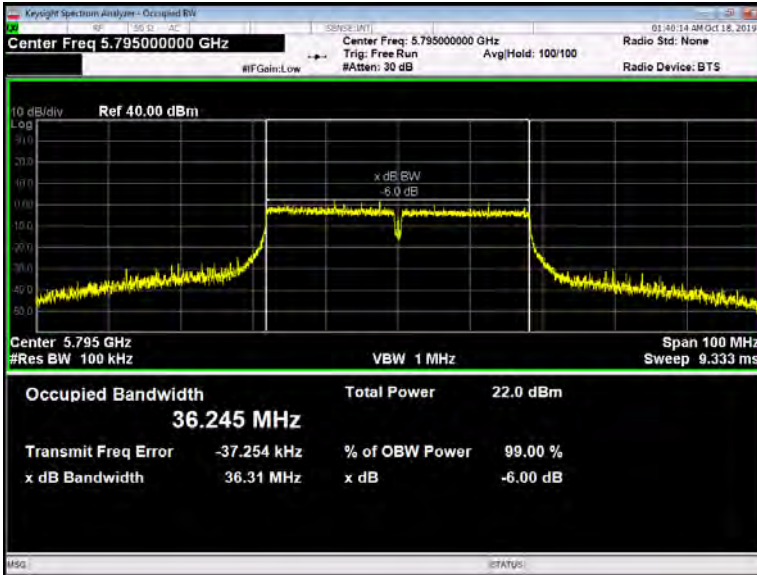




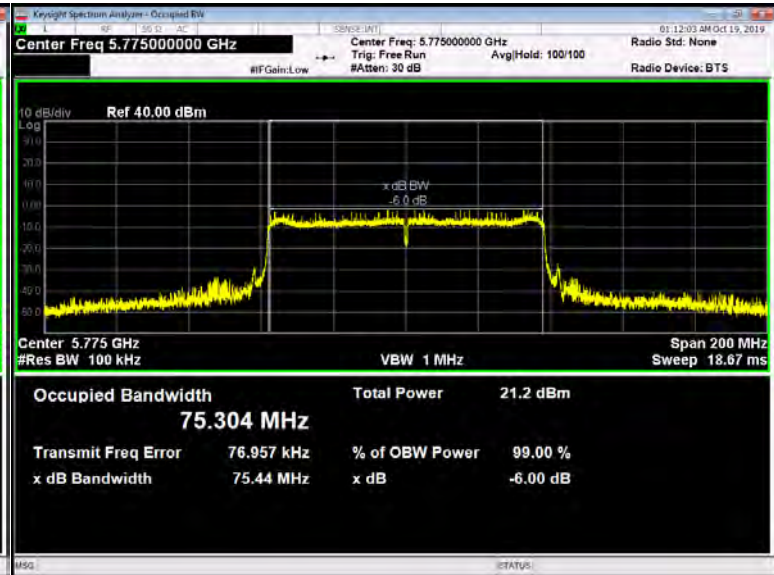
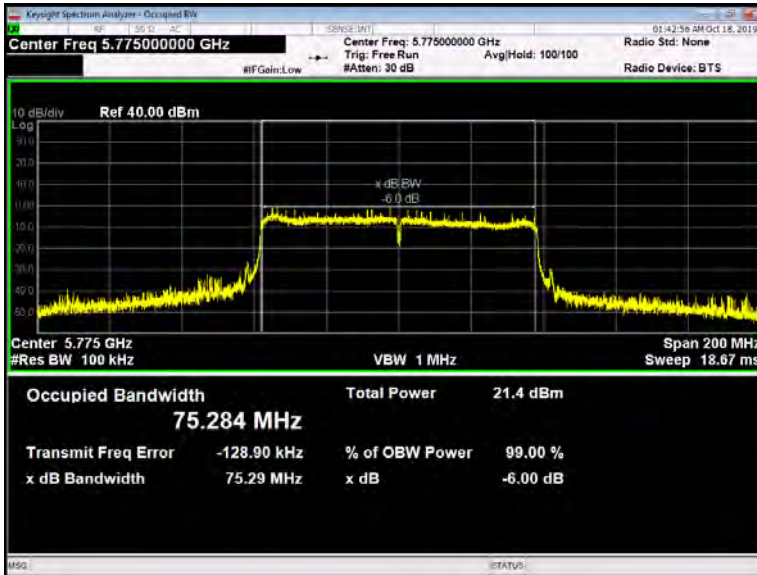
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**Antenna 1 + 2
Channel 159 (5795MHz)**



**Antenna 1 + 2
Channel 155 (5775MHz)**




ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

Maximum Peak Output Power Test Data

Company:	Airspan Networks			Test Date	10/17/2019		
EUT Name	Access Point			Test Engineer	Andreas Davidsson		
Model:	A5x			Test Result	PASS		
Operating Mode	TX Mode						
Mode	Antenna	Test CH	Frequency (MHz)	Raw Power (dBm)	Peak Output Power (dBm)	Limit (dBm)	Conclusion
U-NII-1 (Dipole Antenna Gain)	1	36	5180	20.89	23.43	≤ 30	PASS
	2	36	5180	19.89			
	1	44	5220	21.52	23.89	≤ 30	PASS
	2	44	5220	20.12			
	1	48	5240	21.54	23.87	≤ 30	PASS
	2	48	5240	20.06			
	1	38	5190	19.79	22.21	≤ 30	PASS
	2	38	5190	18.51			
	1	46	5230	20.93	23.37	≤ 30	PASS
	2	46	5230	19.71			
	1	42	5210	20.10	22.70	≤ 30	PASS
	2	42	5210	19.23			
U-NII-1 (Horn Antenna Gain)	1	36	5180	4.29	7.05	≤ 30	PASS
	2	36	5180	3.78			
	1	44	5220	4.02	6.79	≤ 30	PASS
	2	44	5220	3.53			
	1	48	5240	3.40	6.15	≤ 30	PASS
	2	48	5240	2.87			
	1	38	5190	3.71	6.53	≤ 30	PASS
	2	38	5190	3.32			
	1	46	5230	3.33	6.15	≤ 30	PASS
	2	46	5230	2.94			
	1	42	5210	3.35	6.12	≤ 30	PASS
	2	42	5210	2.86			



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Maximum Peak Output Power Test Data (Continued)

U-NII-3 (Dipole Antenna Gain)	1	149	5745	22.85	25.38	≤ 30	PASS
	2	149	5745	21.83			
	1	157	5785	21.33	24.47	≤ 30	PASS
	2	157	5785	21.59			
	1	165	5825	19.61	23.61	≤ 30	PASS
	2	165	5825	21.41			
	1	151	5755	22.18	24.66	≤ 30	PASS
	2	151	5755	21.05			
	1	159	5795	20.07	23.57	≤ 30	PASS
	2	159	5795	21.00			
	1	155	5775	21.18	24.19	≤ 30	PASS
	2	155	5775	21.18			
U-NII-3 (Horn Antenna Gain)	1	149	5745	4.09	6.68	≤ 30	PASS
	2	149	5745	3.21			
	1	157	5785	4.15	7.29	≤ 30	PASS
	2	157	5785	4.41			
	1	165	5825	4.15	6.89	≤ 30	PASS
	2	165	5825	3.60			
	1	151	5755	3.90	6.54	≤ 30	PASS
	2	151	5755	3.13			
	1	159	5795	2.46	5.23	≤ 30	PASS
	2	159	5795	1.96			
	1	155	5775	3.80	6.42	≤ 30	PASS
	2	155	5775	2.97			
Test Equipment: Please refer to section 5.2 Peak Output Power Calculation (See Section 7.4.2 for calculation explanation) listed below each screenshot.							



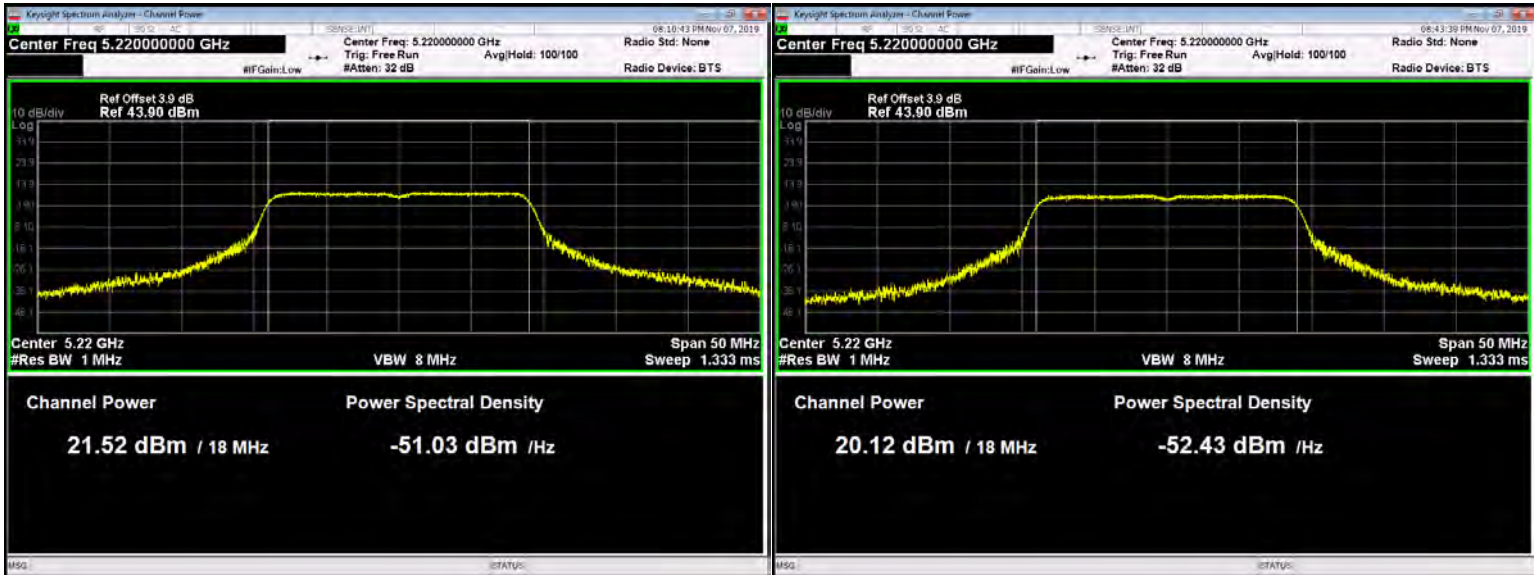
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**Antenna 1 + 2
Channel 36 (5180MHz)**



**Antenna 1 + 2
Channel 44 (5220MHz)**





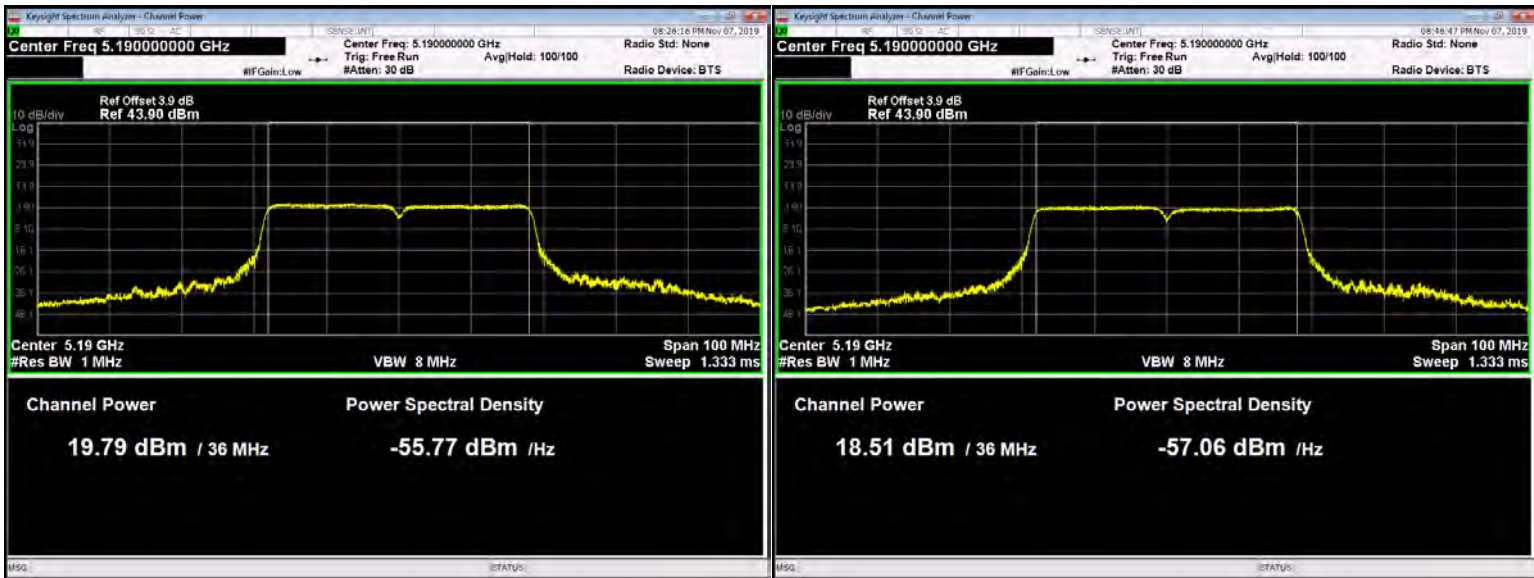
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**Antenna 1 + 2
Channel 48 (5240MHz)**



**Antenna 1 + 2
Channel 38 (5190MHz)**

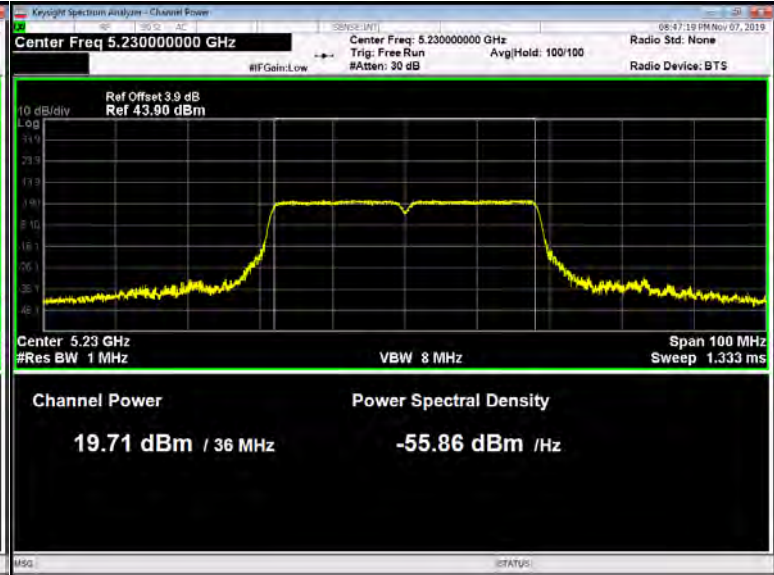
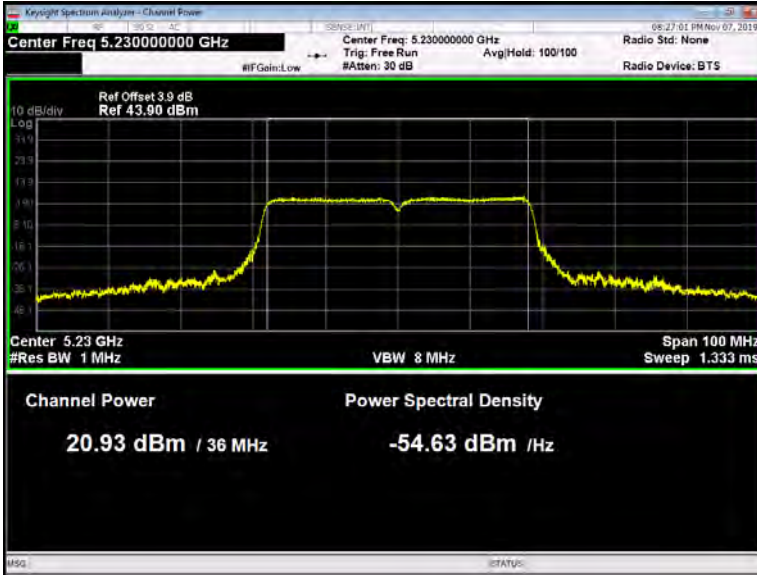




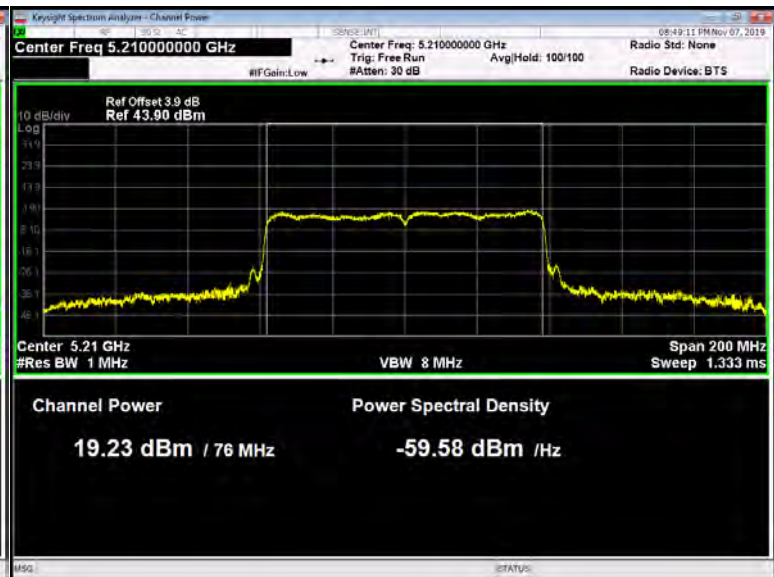
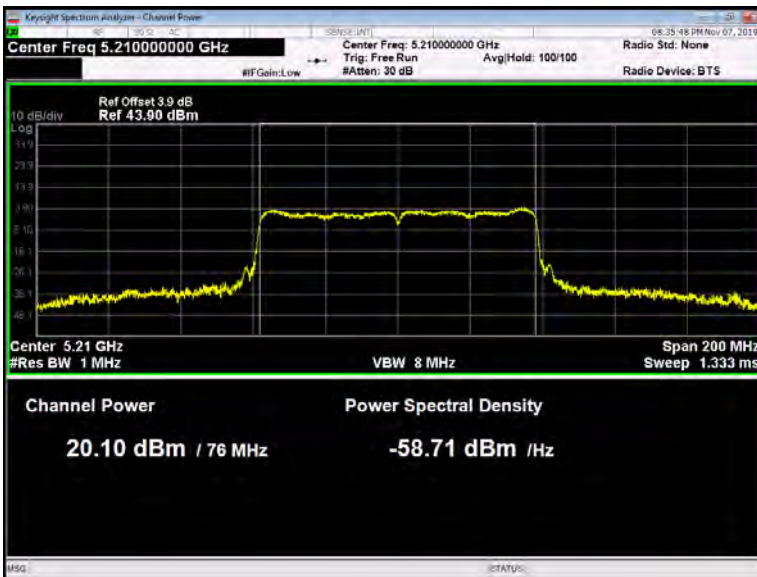
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**Antenna 1 + 2
Channel 46 (5230MHz)**



**Antenna 1 + 2
Channel 42 (5210MHz)**

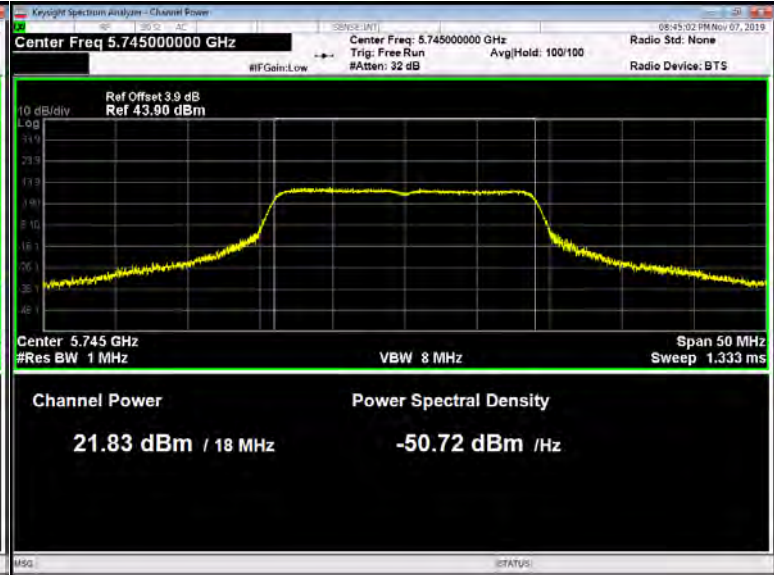
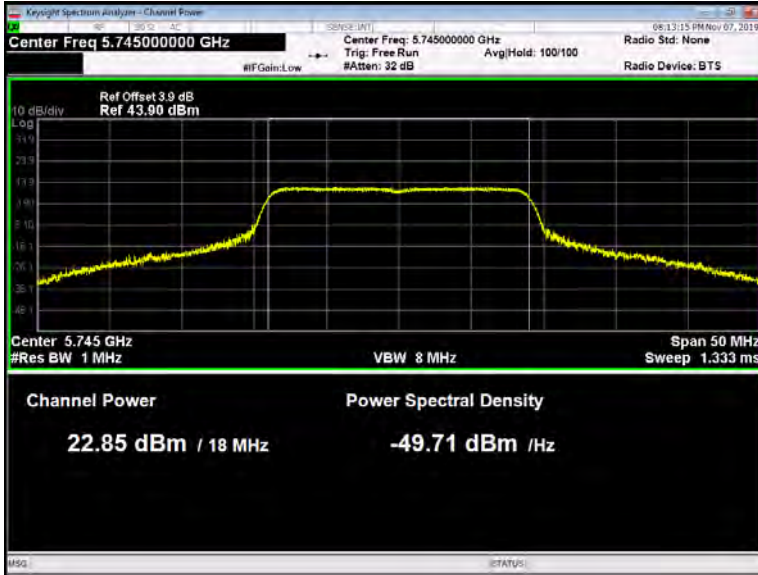




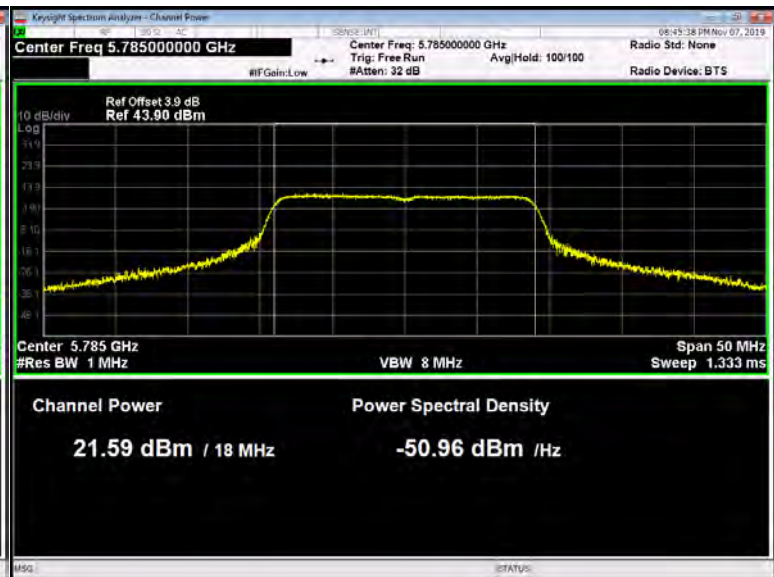
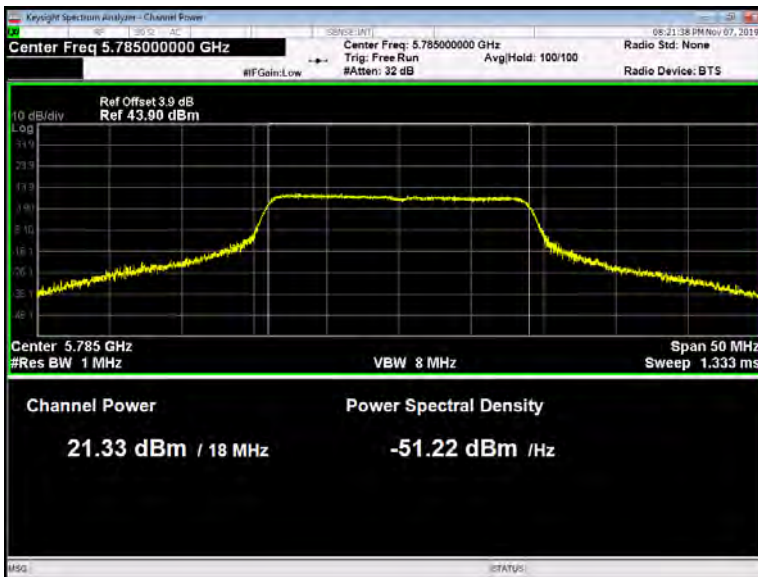
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**Antenna 1 + 2
Channel 149 (5745MHz)**



**Antenna 1 + 2
Channel 157 (5785MHz)**

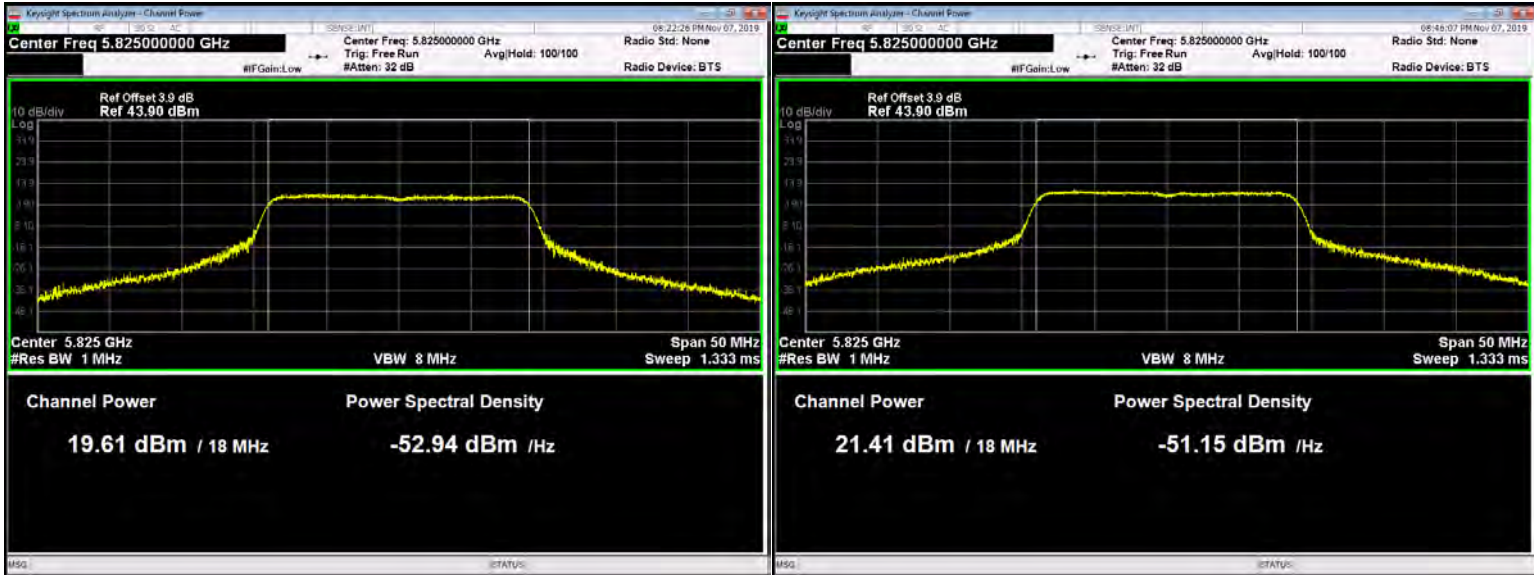




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**Antenna 1 + 2
Channel 165 (5825MHz)**



**Antenna 1 + 2
Channel 151 (5755MHz)**

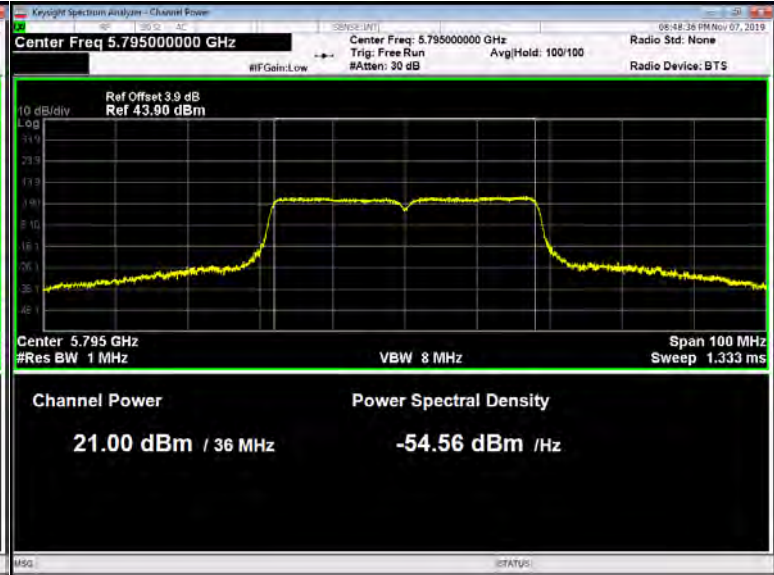
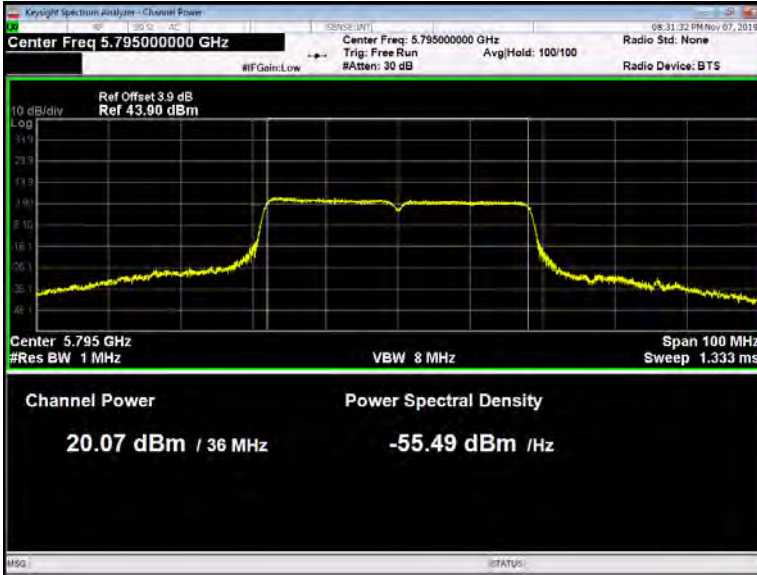




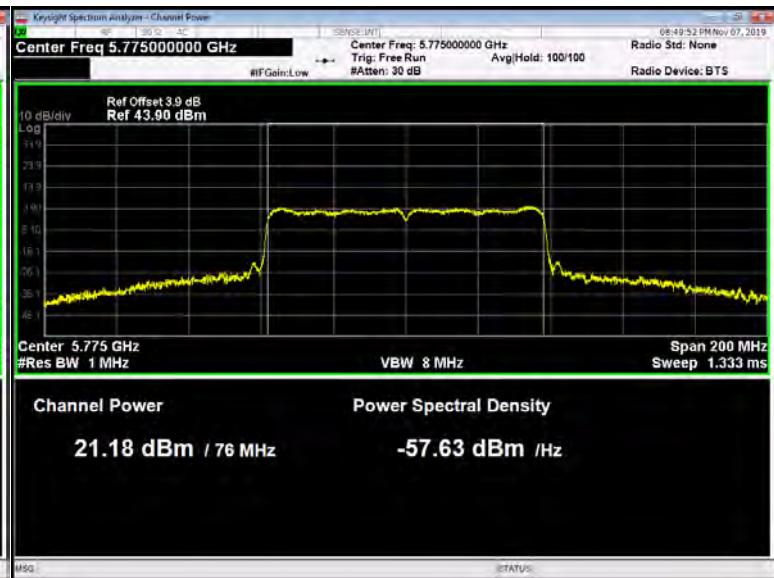
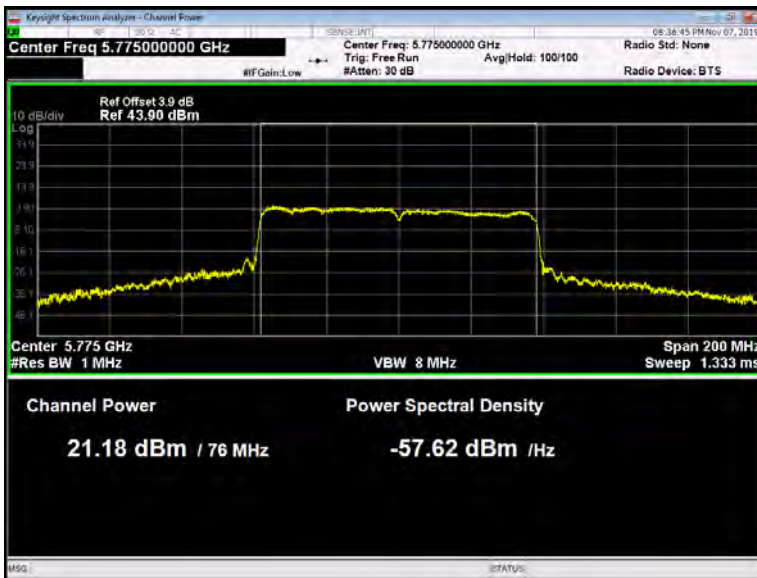
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**Antenna 1 + 2
Channel 159 (5795MHz)**



**Antenna 1 + 2
Channel 155 (5775MHz)**




ELECTRO MAGNETIC TEST, INC.

1547 Plymouth Street, Mountain View, CA 94043 Tel: (650)965-4000 Fax: (650)965-3000

Maximum Power Spectral Density Test Data

Company:	Airspan Networks		Test Date	10/17/2019			
EUT Name	Access Point		Test Engineer	Andreas Davidsson			
Model:	A5x		Test Result	PASS			
Operating Mode	TX Mode						
Mode	Antenna	Test CH	Frequency (MHz)	Raw Peak (dBm)	Maximum PSD (dBm)	Limit (dBm)	Conclusion
U-NII-1 (Dipole Antenna Gain)	1	36	5180	4.68	7.19	≤ 17	Pass
	2	36	5180	3.61			
	1	44	5220	5.20	7.60	≤ 17	Pass
	2	44	5220	3.88			
	1	48	5240	5.44	7.87	≤ 17	Pass
	2	48	5240	4.20			
	1	38	5190	3.52	5.74	≤ 17	Pass
	2	38	5190	1.76			
	1	46	5230	4.18	6.43	≤ 17	Pass
	2	46	5230	2.51			
	1	42	5210	0.83	3.18	≤ 17	Pass
	2	42	5210	-0.61			
U-NII-1 (Horn Antenna Gain)	1	36	5180	3.17	6.16	≤ 17	Pass
	2	36	5180	3.12			
	1	44	5220	3.15	6.13	≤ 17	Pass
	2	44	5220	3.10			
	1	48	5240	3.09	6.07	≤ 17	Pass
	2	48	5240	3.03			
	1	38	5190	2.82	5.81	≤ 17	Pass
	2	38	5190	2.78			
	1	46	5230	2.78	5.77	≤ 17	Pass
	2	46	5230	2.74			
	1	42	5210	2.45	5.44	≤ 17	Pass
	2	42	5210	2.41			



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Maximum Power Spectral Density Test Data (Continued)

U-NII-3 (Dipole Antenna Gain)	1	149	5745	2.53	5.20	≤ 30	Pass
	2	149	5745	1.83			
	1	157	5785	2.55	5.01	≤ 30	Pass
	2	157	5785	1.36			
	1	165	5825	2.14	4.67	≤ 30	Pass
	2	165	5825	1.12			
	1	151	5755	1.76	4.02	≤ 30	Pass
	2	151	5755	0.09			
	1	159	5795	1.28	3.56	≤ 30	Pass
	2	159	5795	-0.33			
	1	155	5775	1.58	2.91	≤ 30	Pass
	2	155	5775	-2.88			
U-NII-3 (Horn Antenna Gain)	1	149	5745	0.21	3.20	≤ 30	Pass
	2	149	5745	0.16			
	1	157	5785	0.16	3.17	≤ 30	Pass
	2	157	5785	0.16			
	1	165	5825	0.15	3.12	≤ 30	Pass
	2	165	5825	0.07			
	1	151	5755	-0.17	2.87	≤ 30	Pass
	2	151	5755	-0.11			
	1	159	5795	-0.15	2.78	≤ 30	Pass
	2	159	5795	-0.31			
	1	155	5775	-0.50	2.47	≤ 30	Pass
	2	155	5775	-0.58			
Test Equipment: Please refer to 5.2 A correction factor of +10 dB was added for U-NII-1 bands and +7 for U-NII-3 bands to match Resolution bandwidth requirements.							



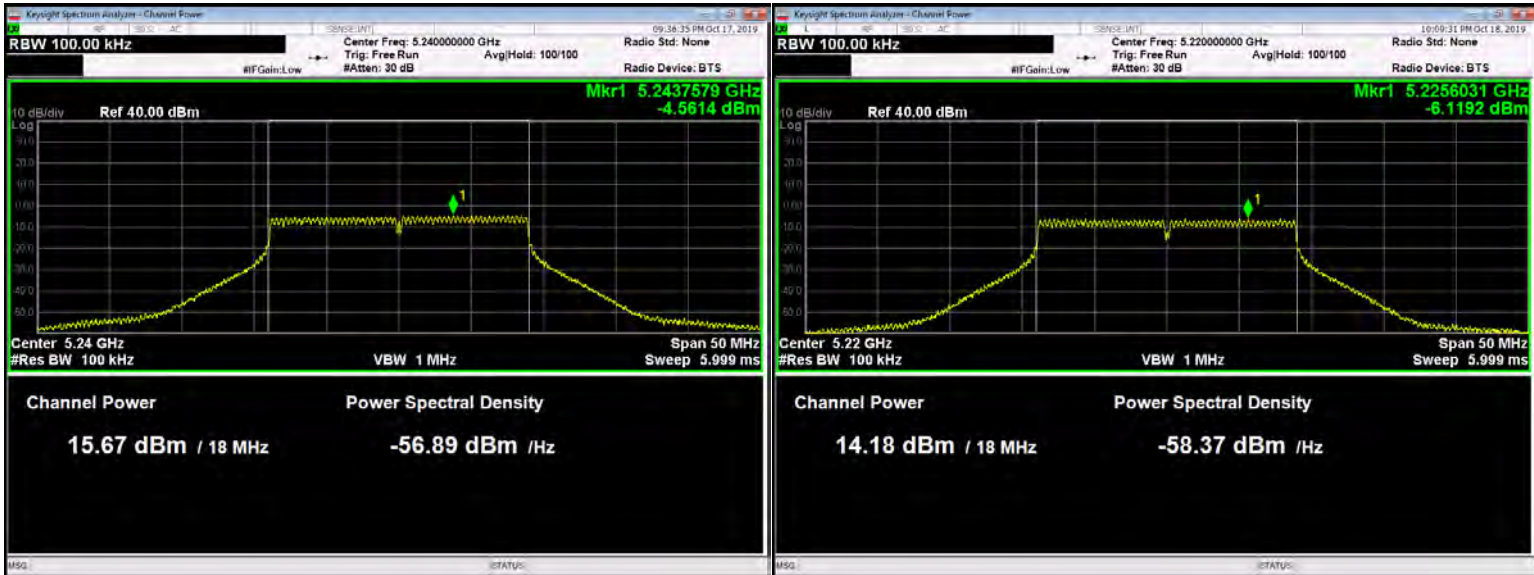
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**Antenna 1 + 2
Channel 36 (5180MHz)**



**Antenna 1 + 2
Channel 44 (5220MHz)**

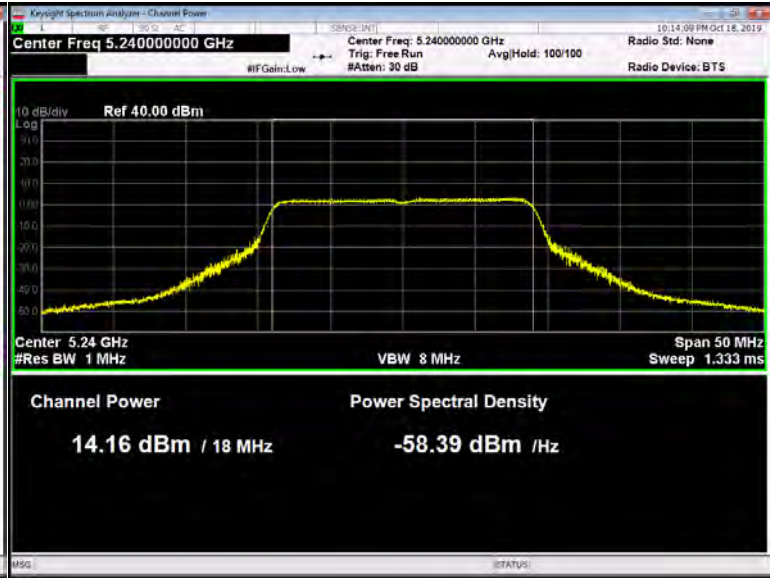
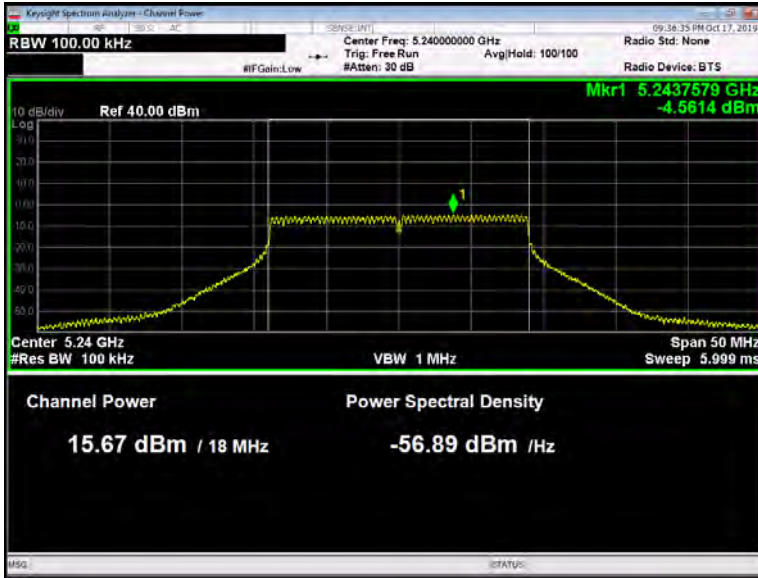




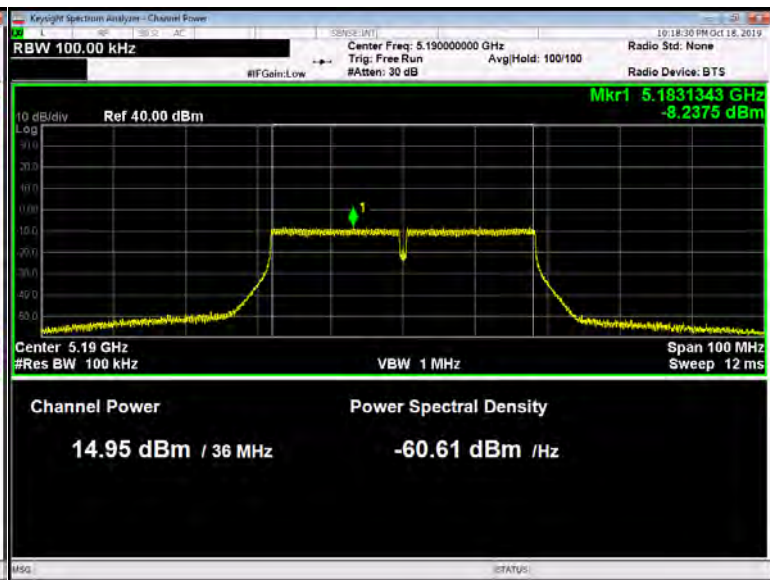
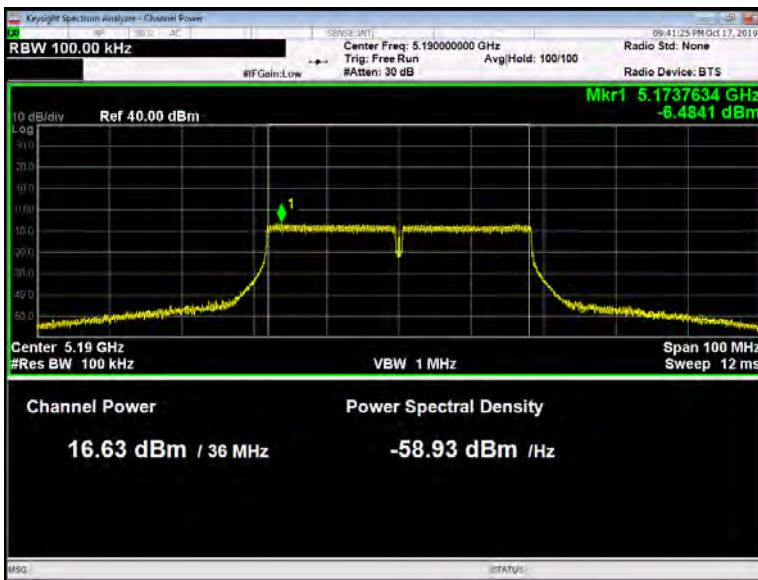
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**Antenna 1 + 2
Channel 48 (5240MHz)**



**Antenna 1 + 2
Channel 38 (5190MHz)**





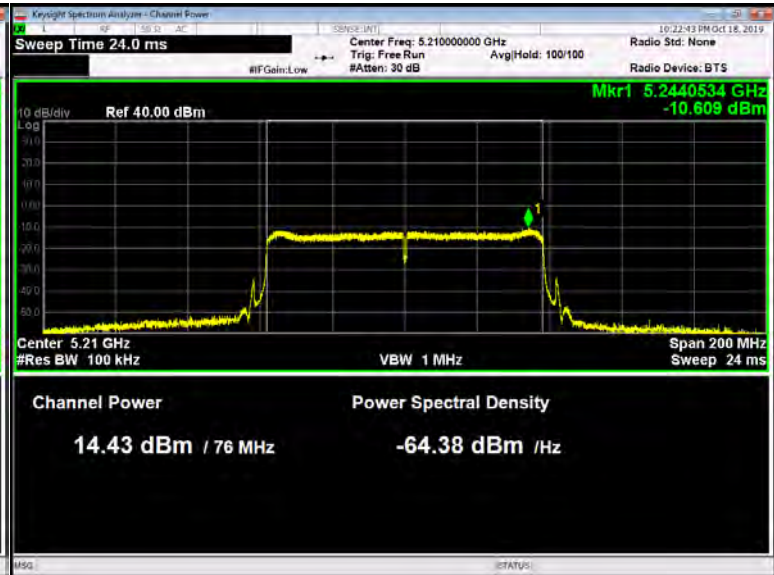
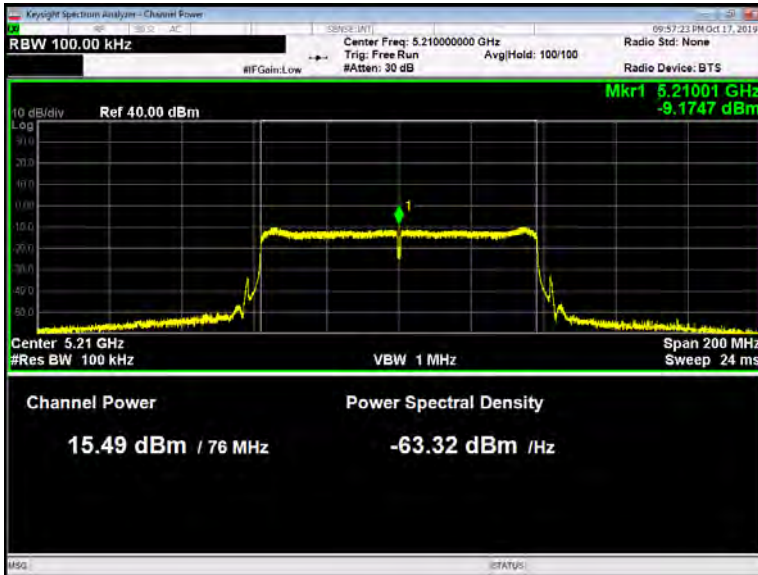
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**Antenna 1 + 2
Channel 46 (5230MHz)**



**Antenna 1 + 2
Channel 42 (5210MHz)**

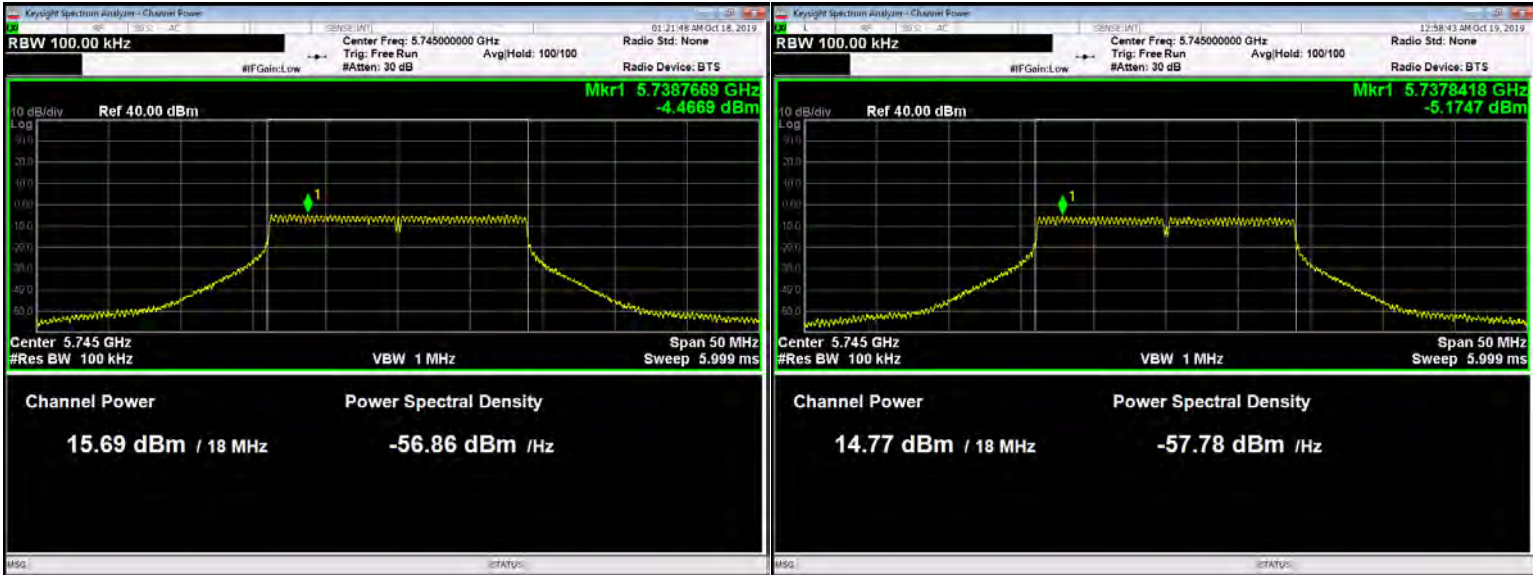




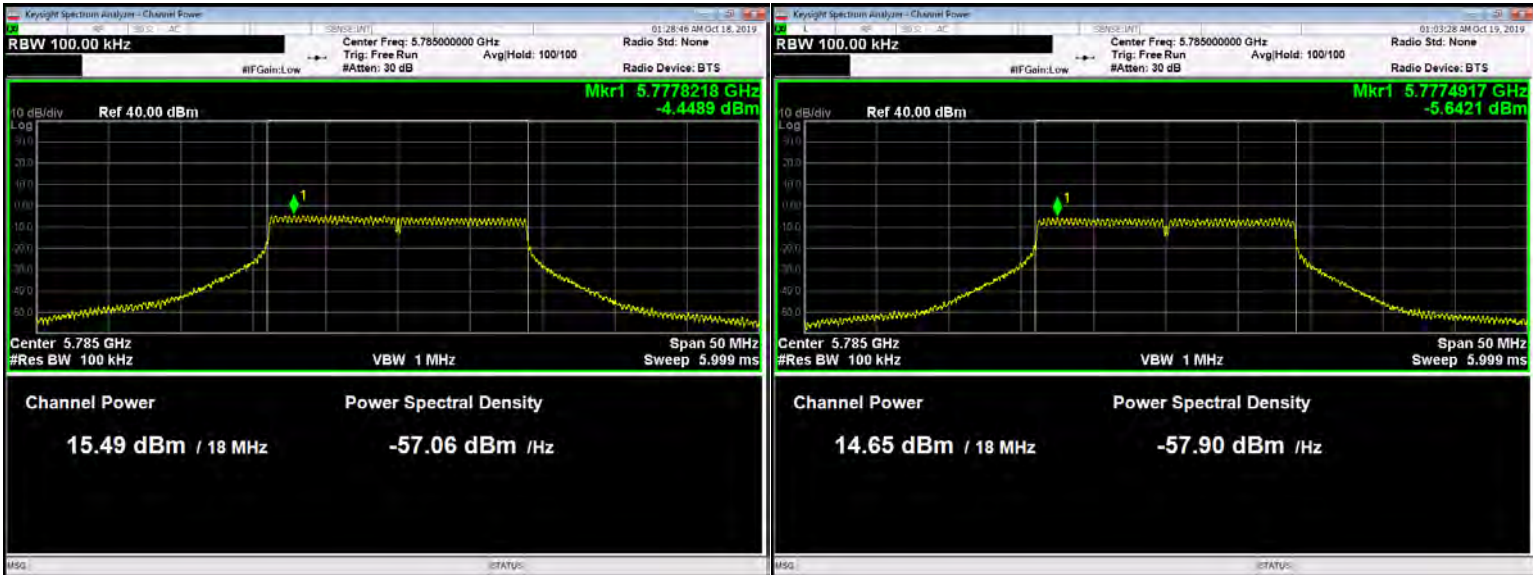
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**Antenna 1 + 2
Channel 149 (5745MHz)**



**Antenna 1 + 2
Channel 157 (5785MHz)**





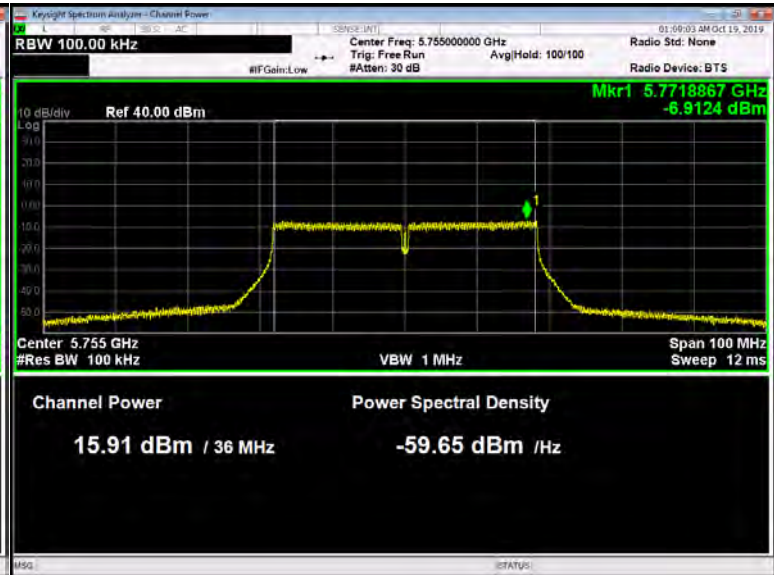
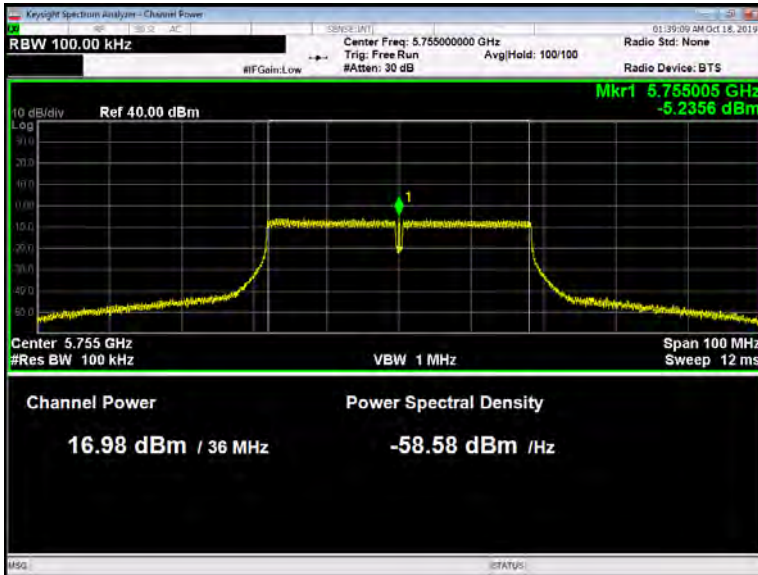
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**Antenna 1 + 2
Channel 165 (5825MHz)**



**Antenna 1 + 2
Channel 151 (5755MHz)**

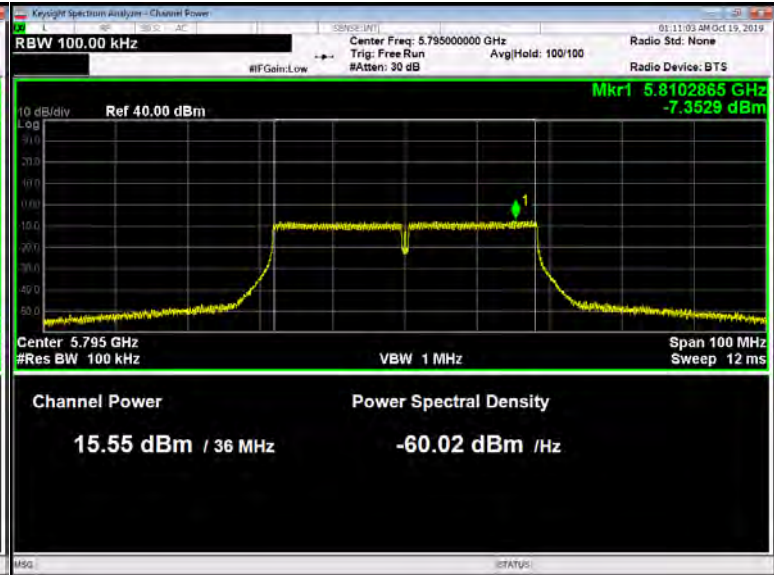
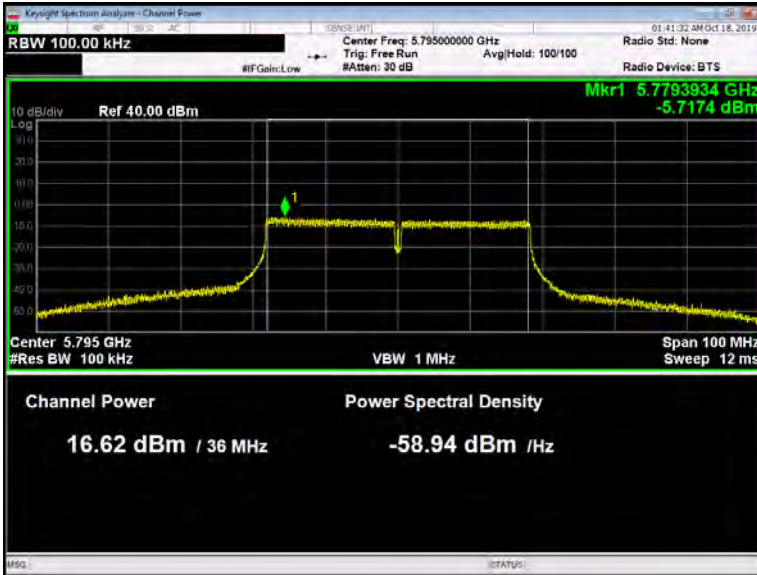




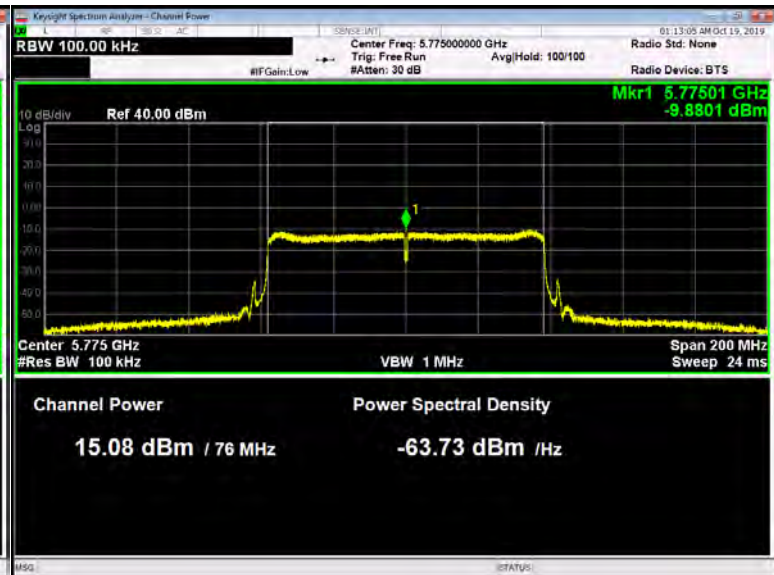
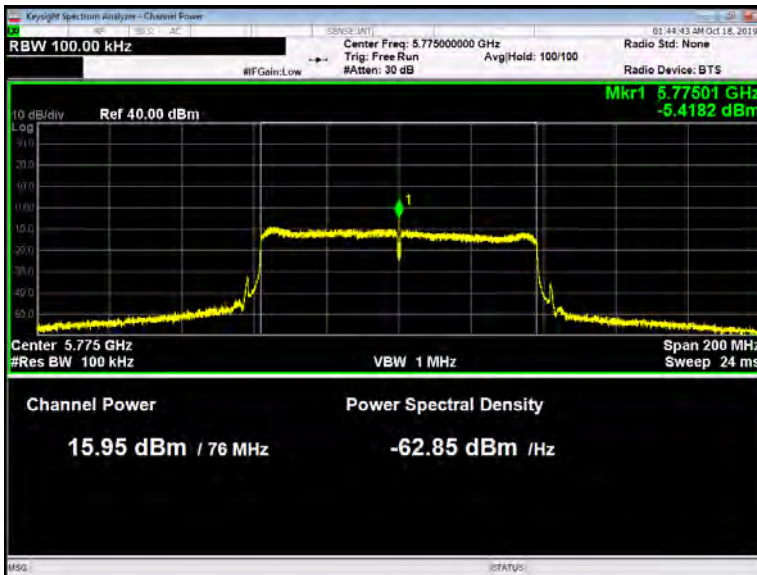
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**Antenna 1 + 2
Channel 159 (5795MHz)**



**Antenna 1 + 2
Channel 155 (5775MHz)**





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APPENDIX B

TEST SETUP DIAGRAMS



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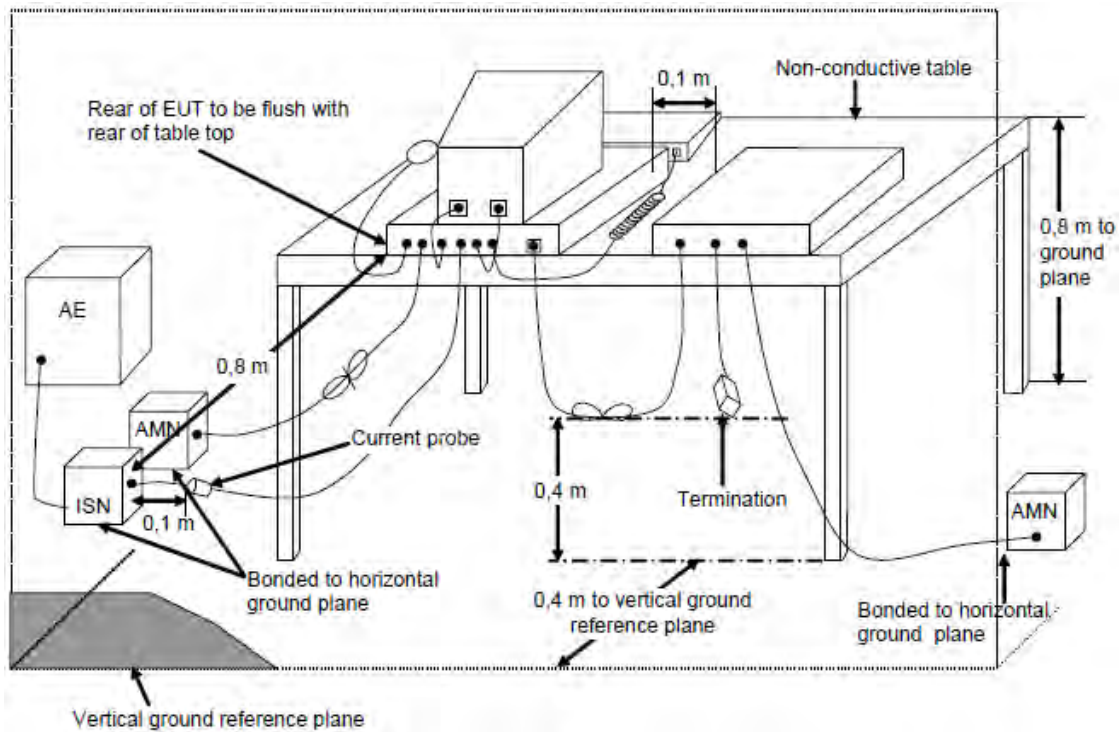


FIGURE 1 – TABLETOP CONDUCTED EMISSIONS TEST SETUP – SITE “D”

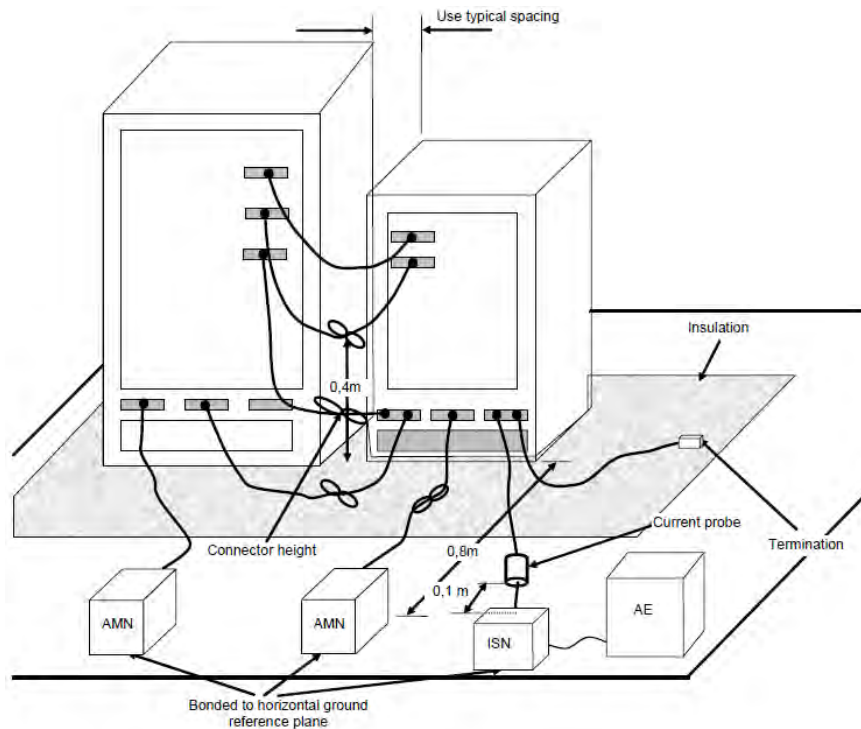


FIGURE 1a – FLOORSTANDING CONDUCTED EMISSIONS TEST SETUP – SITE “D”



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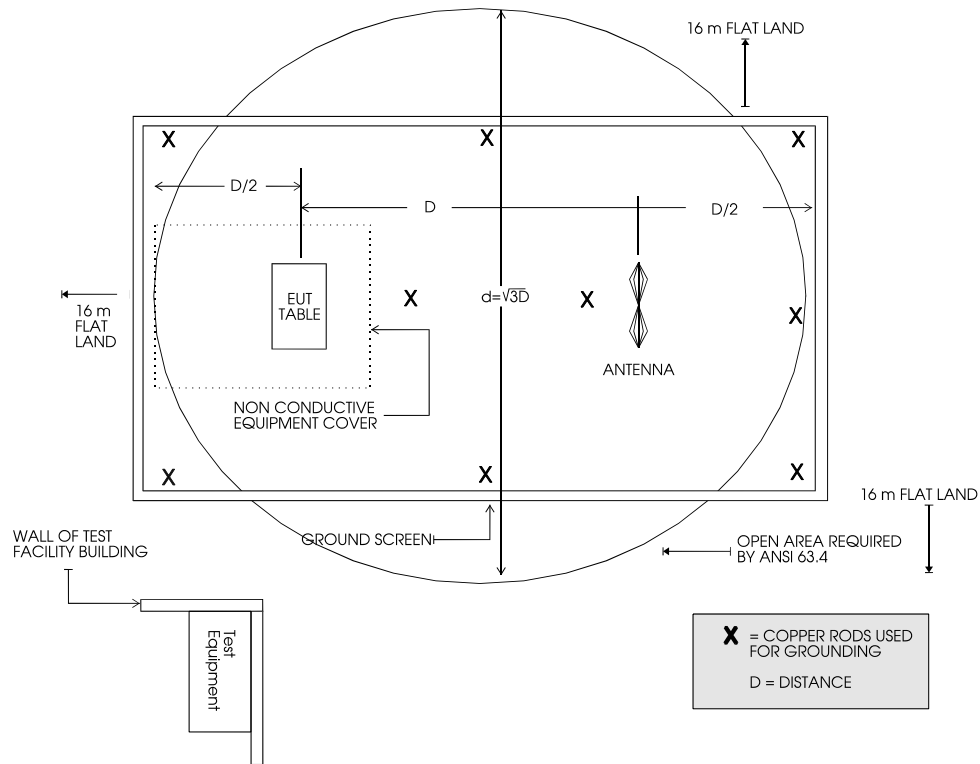


FIGURE 2 - PLOT MAP AND LAYOUT OF TEST SITE "A"

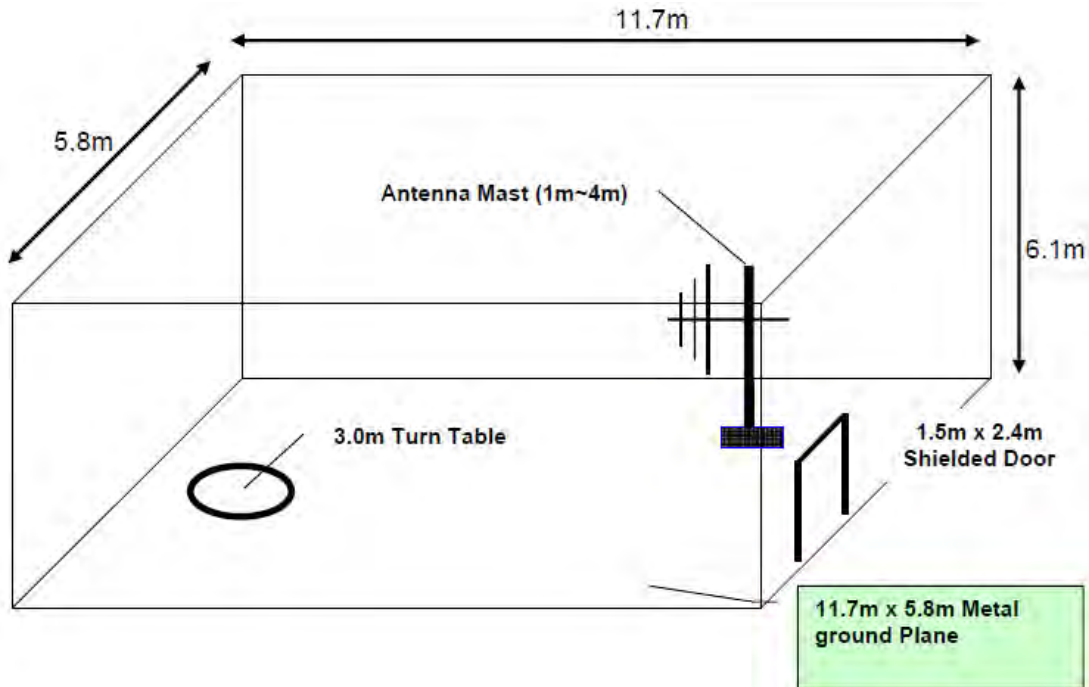


FIGURE 3 - LAYOUT OF 5 METER SEMI-ANECHOIC CHAMBER



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APPENDIX C

MODIFICATIONS TO THE EUT



ELECTRO MAGNETIC TEST, INC.

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MODIFICATIONS TO THE EUT

No modifications were made to the EUT by Electro Magnetic Test, Inc. personnel during the testing.



ELECTRO MAGNETIC TEST, INC.

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APPENDIX D

***ADDITIONAL MODELS COVERED
UNDER THIS REPORT***



ELECTRO MAGNETIC TEST, INC.

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ADDITIONAL MODELS COVERED UNDER THIS REPORT

There are no additional models to be covered under this report.



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End of Report

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