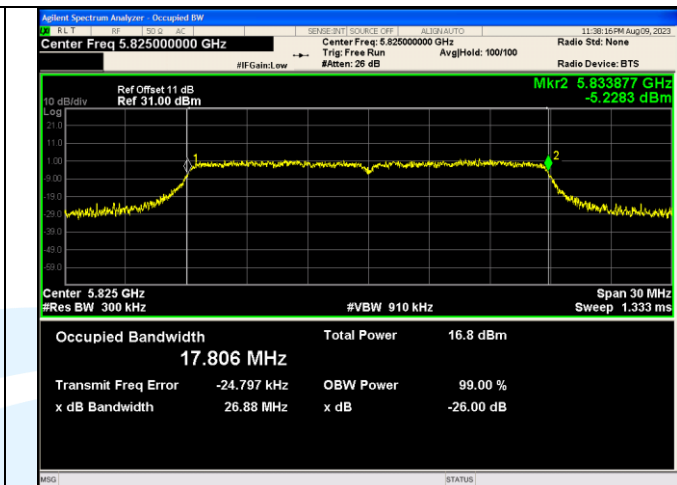
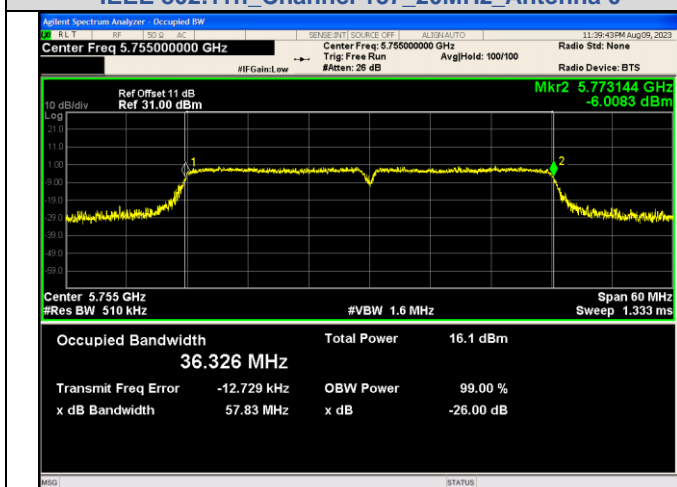


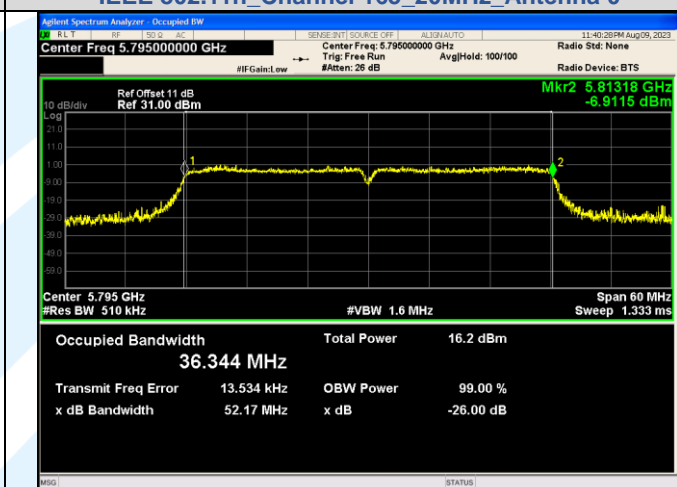
IEEE 802.11n\_Channel 157\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 165\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 151\_40MHz\_Antenna 0



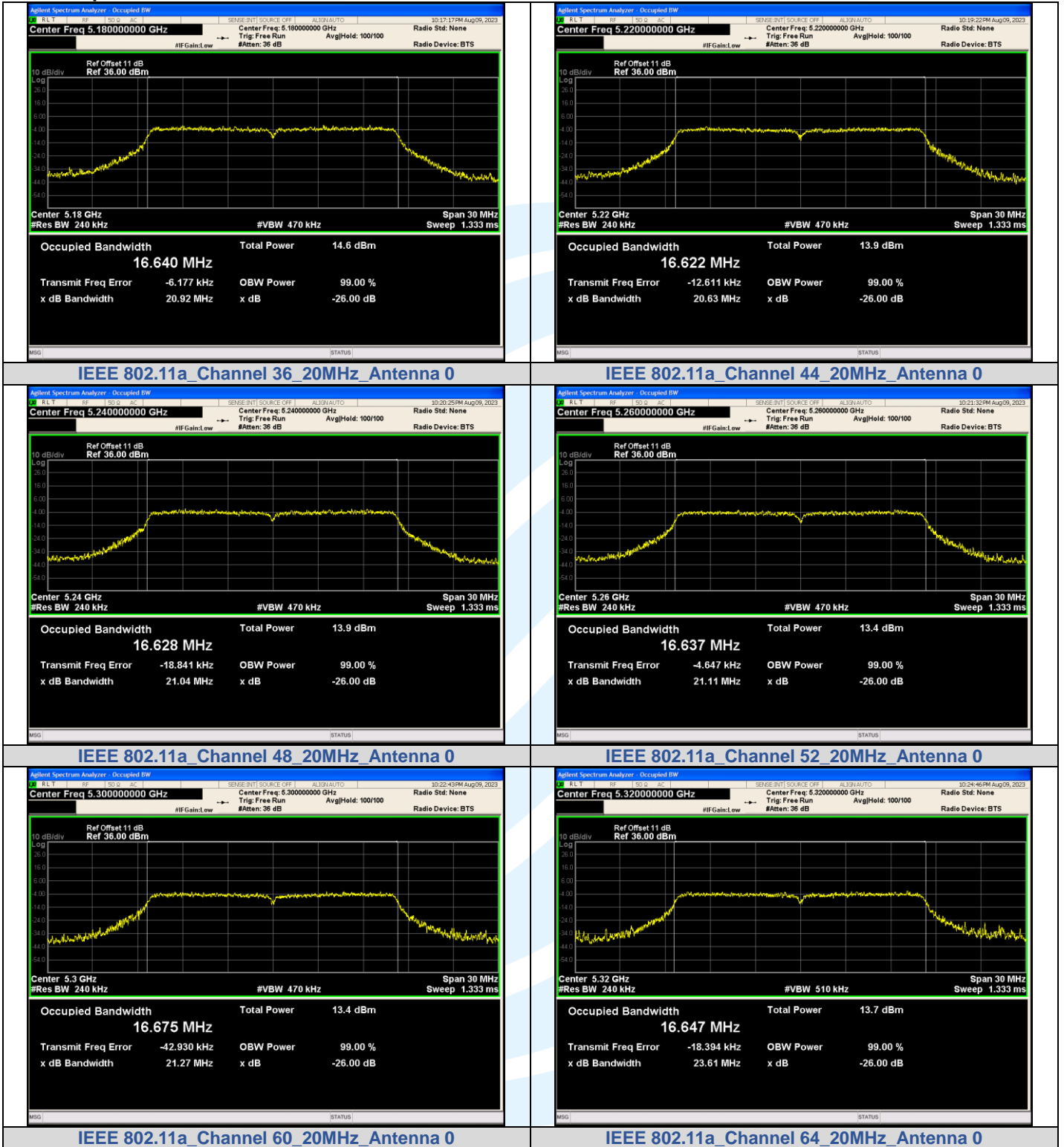
IEEE 802.11n\_Channel 159\_40MHz\_Antenna 0

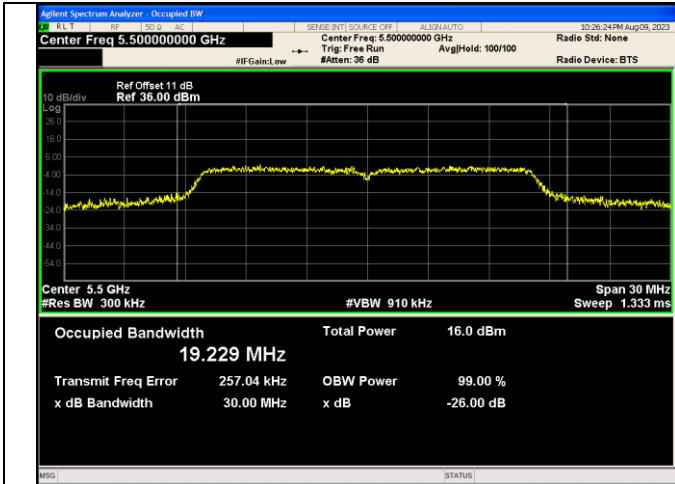
## A.2 26DB BANDWIDTH

For U-NII-1, U-NII-2A, U-NII-2C band

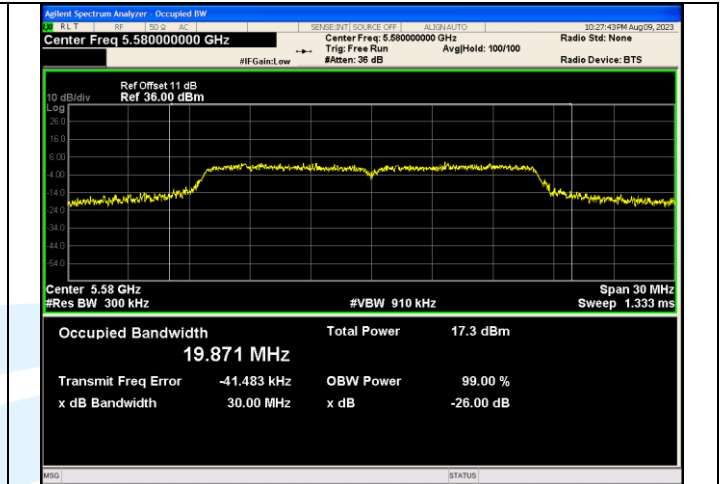
Mode	Channel	Ant.	Center Frequency (MHz)	26 dB Bandwidth (MHz)	RBW/EBW
IEEE 802.11a	36	0	5180	20.92	1.11
	44		5220	20.63	1.14
	48		5240	21.04	1.1
	52		5260	21.11	1.1
	60		5300	21.27	1.09
	64		5320	23.61	1.07
	100		5500	30.00	1.0
	116		5580	30.00	1.0
	140		5700	28.63	1.05
IEEE 802.11n_20	36		5180	21.33	1.11
	44		5220	21.19	1.11
	48		5240	21.31	1.1
	52		5260	20.86	1.13
	60		5300	21.73	1.09
	64		5320	21.41	1.11
	100		5500	30.00	1.0
	116		5580	30.00	1.0
	140		5700	29.97	1.0
IEEE 802.11n_40	38		5190	42.04	1.04
	46		5230	41.45	1.06
	54		5270	41.97	1.06
	62		5310	41.81	1.05
	102		5510	60.00	1.03
	110		5550	60.00	1.03
	134		5670	59.78	1.04

## Test Graphs

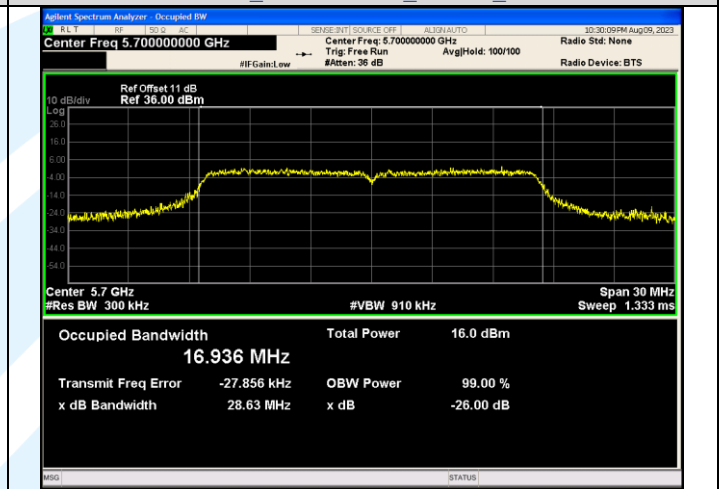
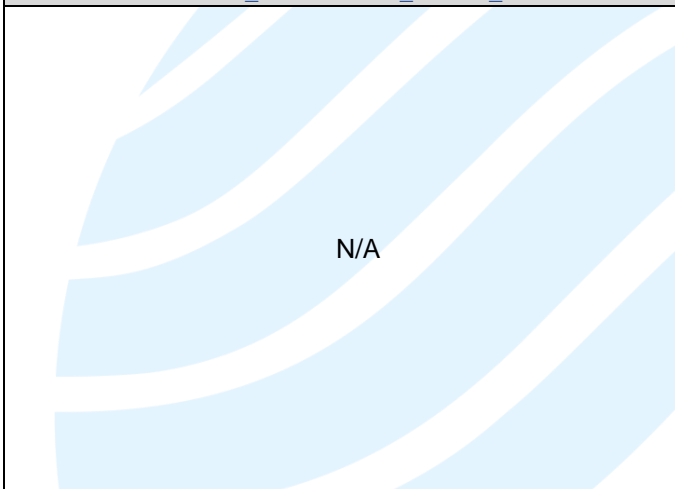




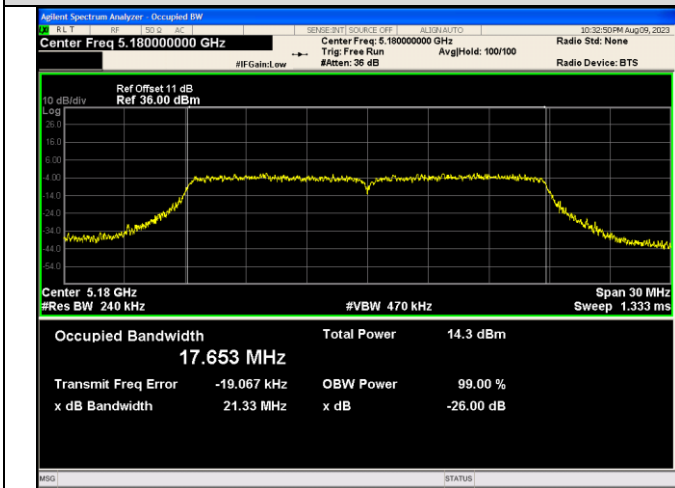
IEEE 802.11a\_Channel 100\_20MHz\_Antenna 0



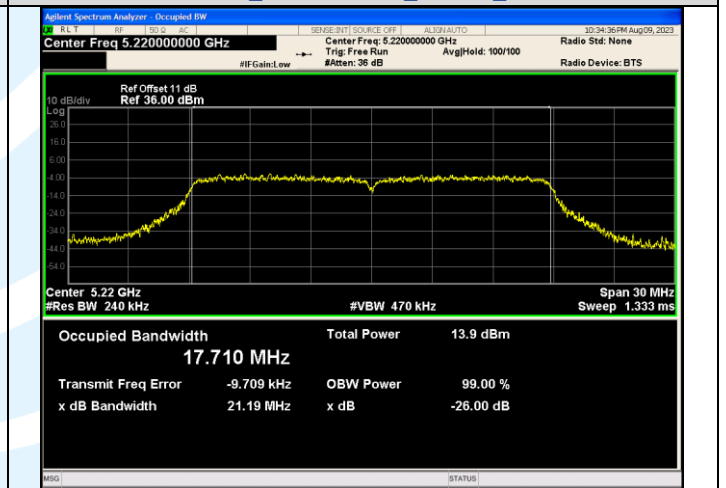
IEEE 802.11a\_Channel 116\_20MHz\_Antenna 0



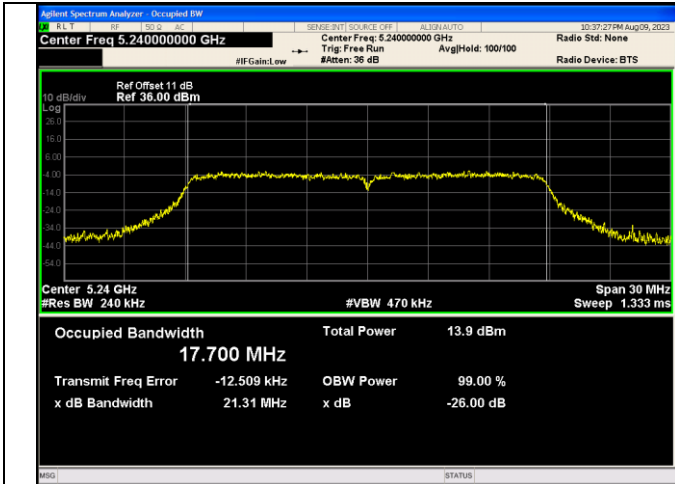
IEEE 802.11a\_Channel 140\_20MHz\_Antenna 0



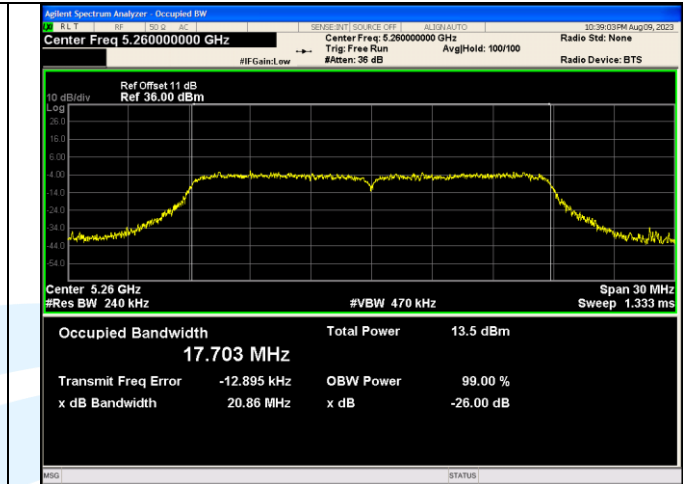
IEEE 802.11n\_Channel 36\_20MHz\_Antenna 0



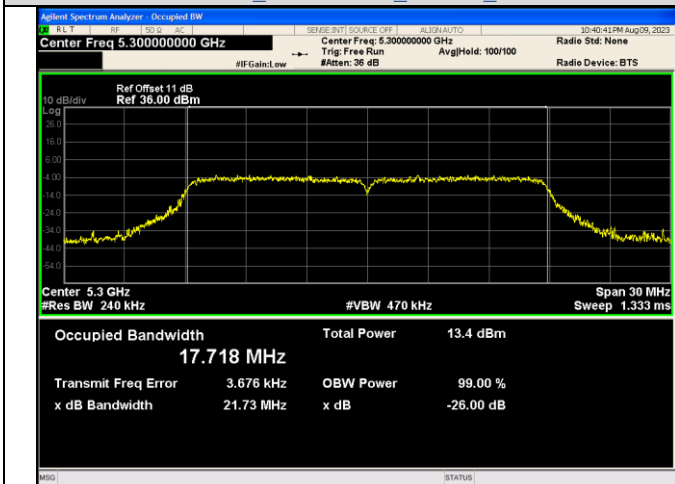
IEEE 802.11n\_Channel 44\_20MHz\_Antenna 0



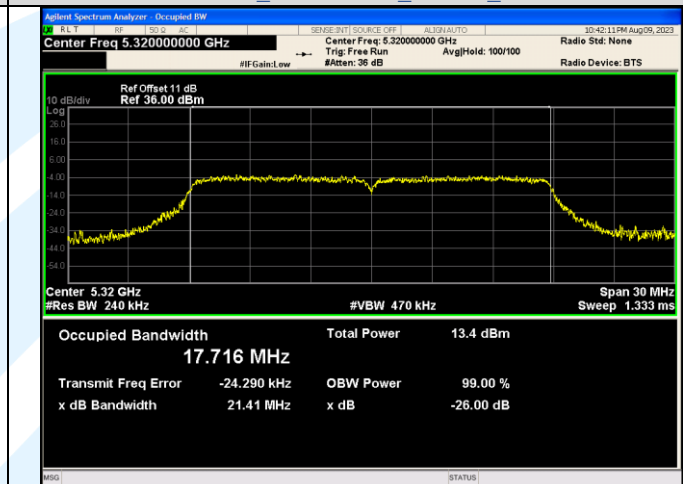
IEEE 802.11n\_Channel 48\_20MHz\_Antenna 0



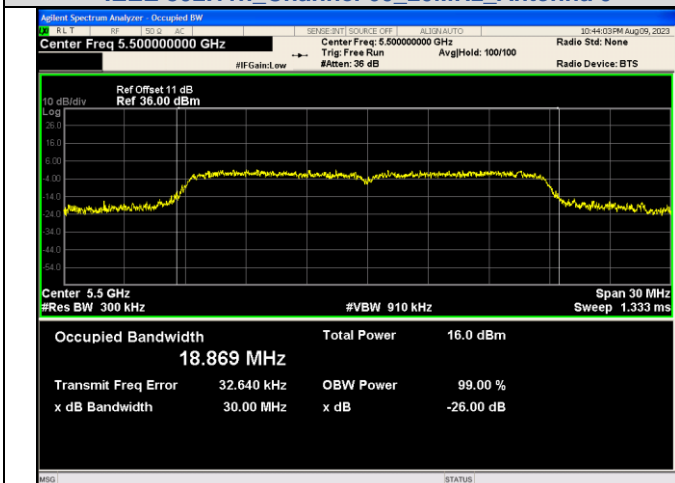
IEEE 802.11n\_Channel 52\_20MHz\_Antenna 0



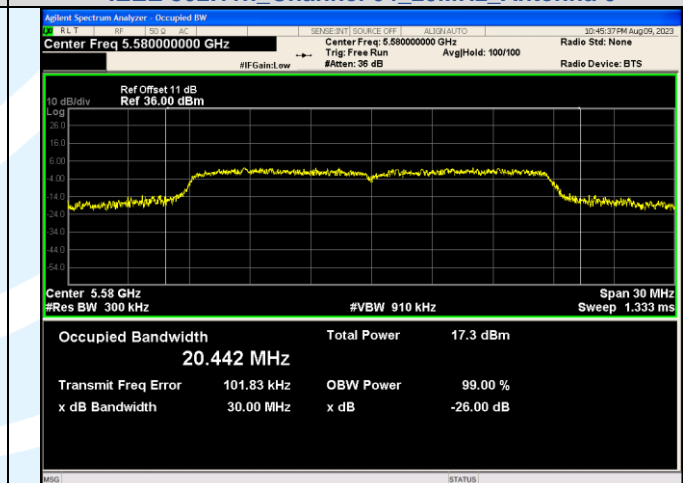
IEEE 802.11n\_Channel 60\_20MHz\_Antenna 0



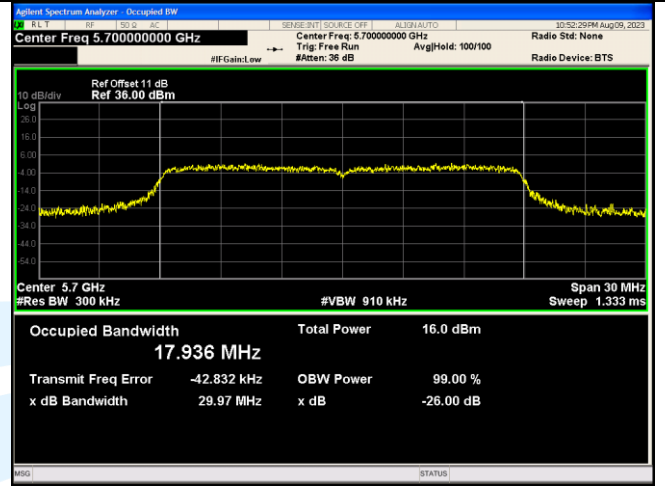
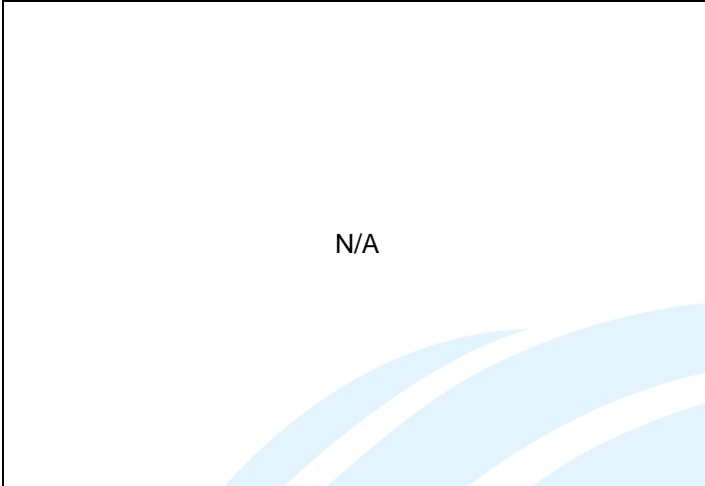
IEEE 802.11n\_Channel 64\_20MHz\_Antenna 0



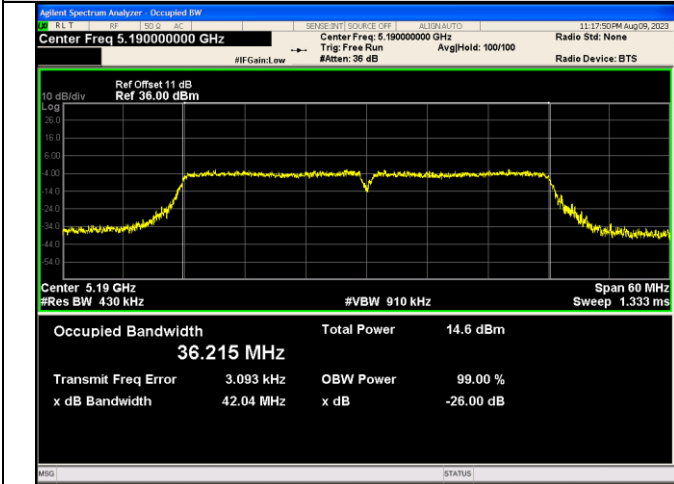
IEEE 802.11n\_Channel 100\_20MHz\_Antenna 0



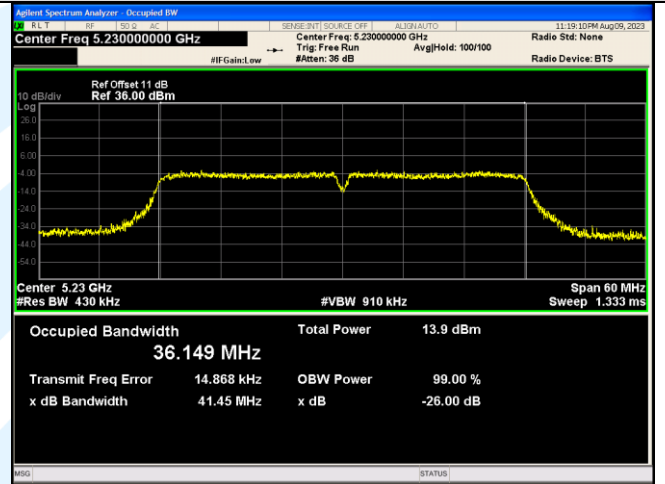
IEEE 802.11n\_Channel 116\_20MHz\_Antenna 0



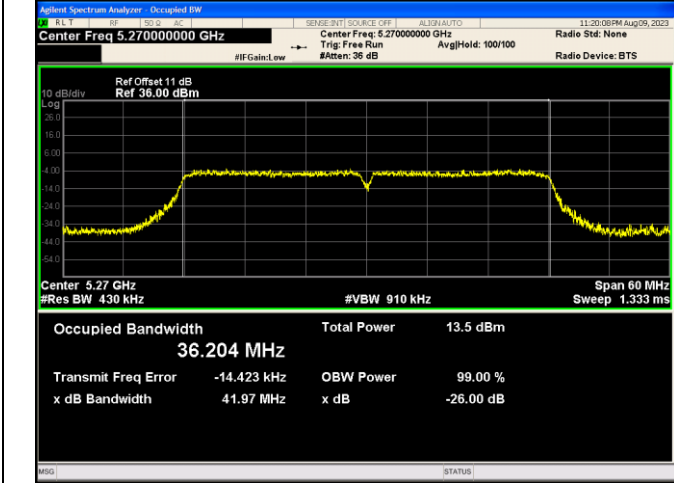
IEEE 802.11n\_Channel 140\_20MHz\_Antenna 0



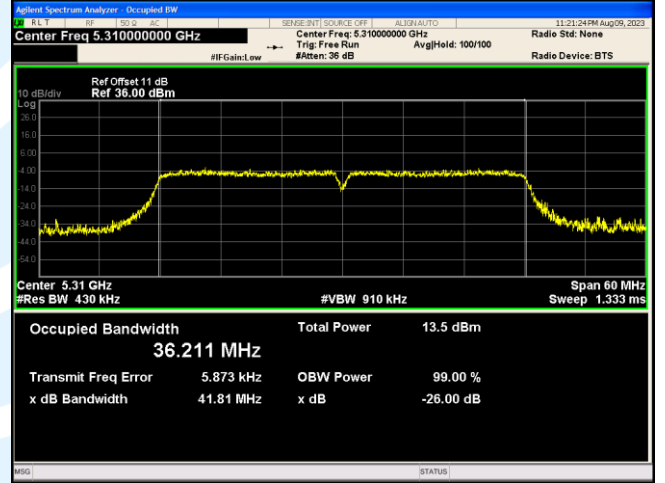
IEEE 802.11n\_Channel 38\_40MHz\_Antenna 0



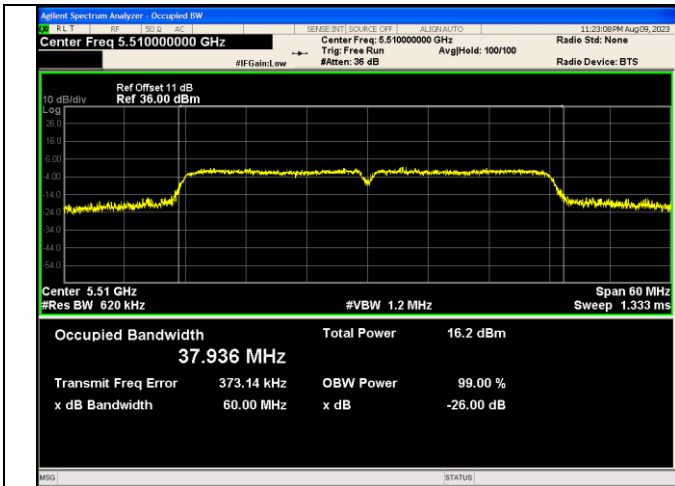
IEEE 802.11n\_Channel 46\_40MHz\_Antenna 0



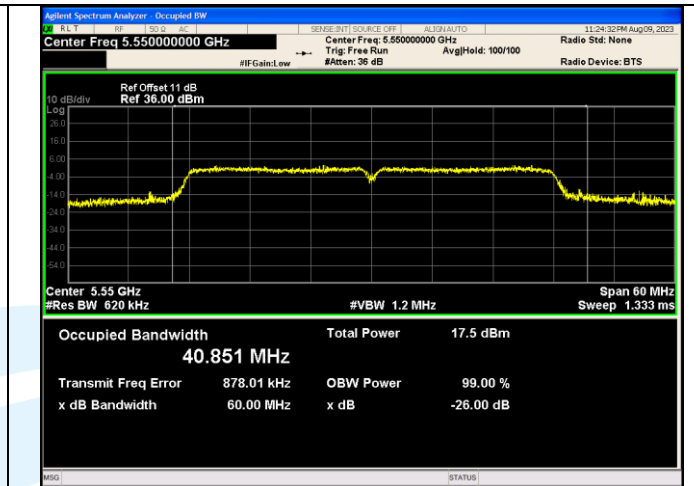
IEEE 802.11n\_Channel 54\_40MHz\_Antenna 0



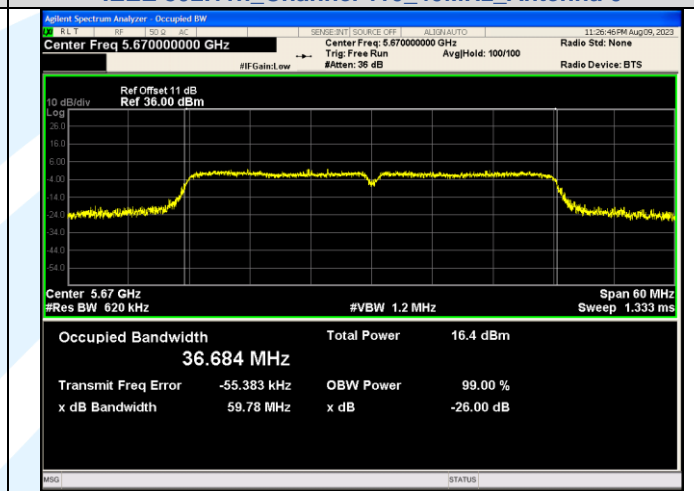
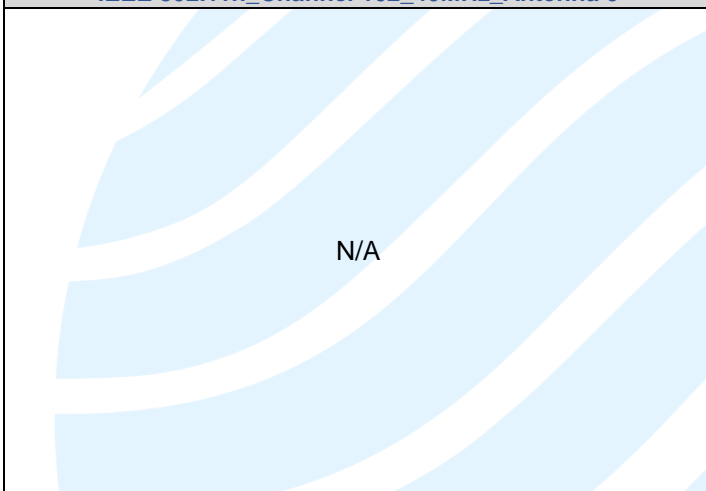
IEEE 802.11n\_Channel 62\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 102\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 110\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 134\_40MHz\_Antenna 0

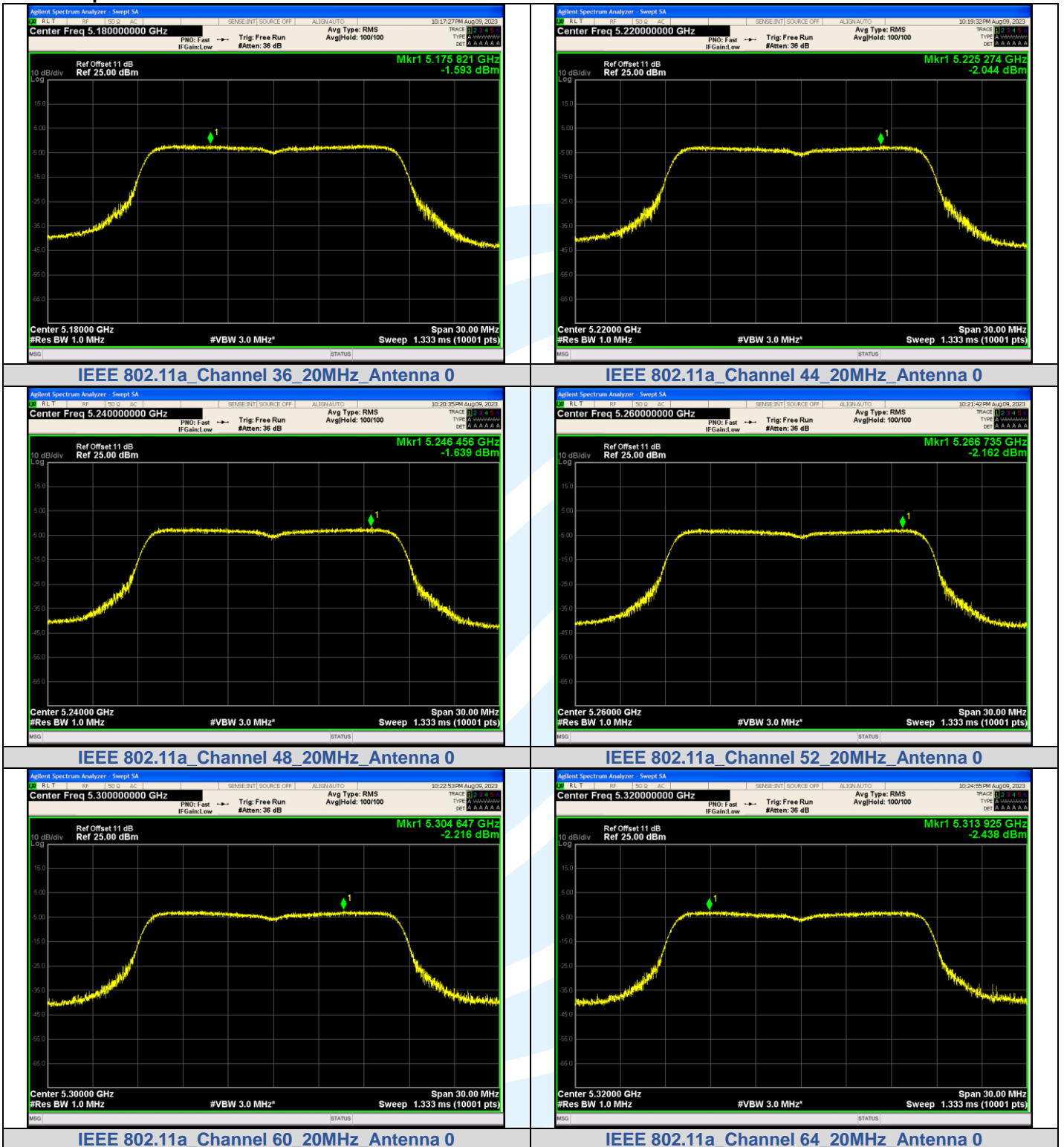
### A.3 PEAK POWER SPECTRAL DENSITY

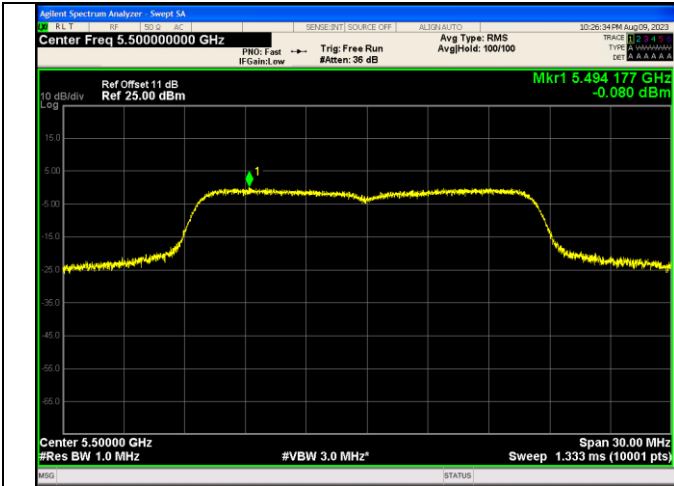
For U-NII-1, U-NII-2A, U-NII-2C band

Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	36	-1.593	-1.29	11	PASS
	44	-2.044	-1.73		PASS
	48	-1.639	-1.33		PASS
	52	-2.162	-1.85		PASS
	60	-2.216	-1.91		PASS
	64	-2.438	-2.13		PASS
	100	-0.080	0.23		PASS
	116	1.225	1.53		PASS
140	-0.378	-0.07	PASS		
IEEE 802.11n_20	36	-1.528	-1.18		PASS
	44	-2.522	-2.17		PASS
	48	-1.712	-1.36		PASS
	52	-2.592	-2.24		PASS
	60	-2.495	-2.14		PASS
	64	-2.604	-2.25		PASS
	100	-0.431	-0.08		PASS
	116	0.715	1.07		PASS
140	-0.127	0.23	PASS		
IEEE 802.11n_40	38	-4.964	-4.33		PASS
	46	-5.178	-4.55		PASS
	54	-5.937	-5.31		PASS
	62	-6.056	-5.43		PASS
	102	-3.709	-3.08		PASS
	110	-2.462	-1.83	PASS	
	134	-3.148	-2.52	PASS	

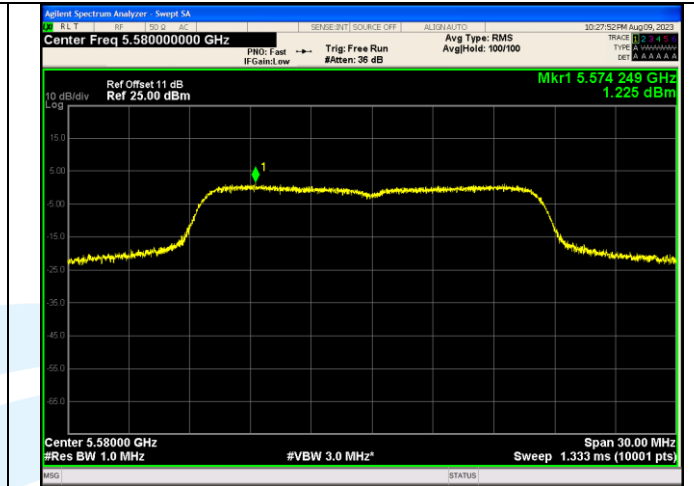


## Test Graphs

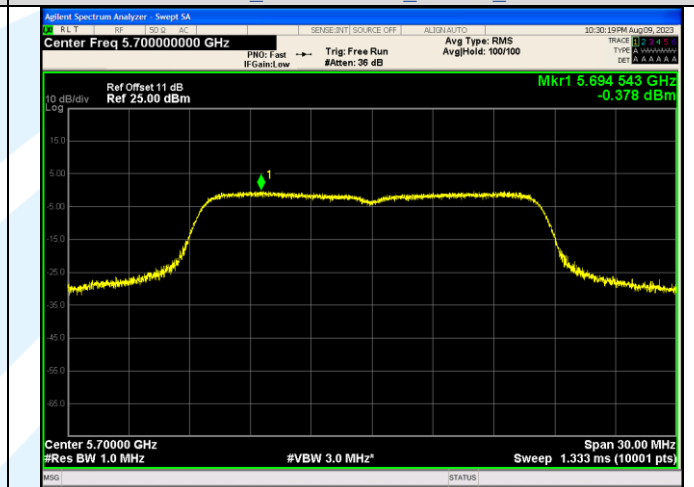
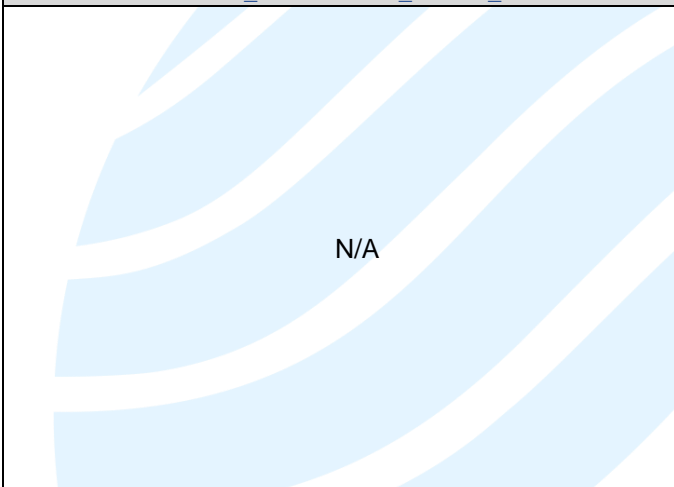




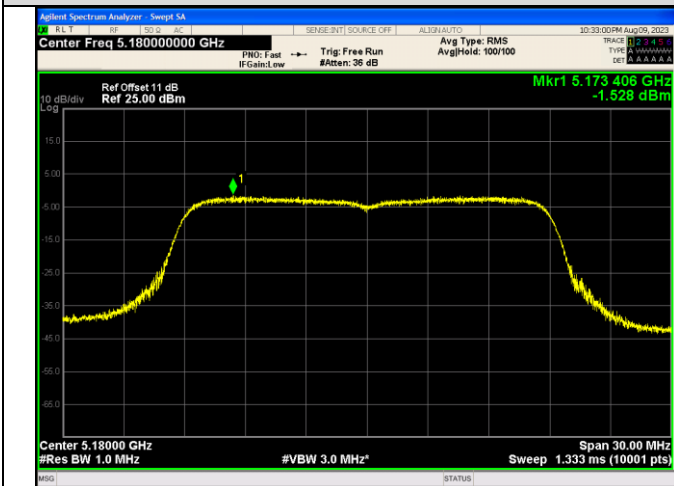
IEEE 802.11a\_Channel 100\_20MHz\_Antenna 0



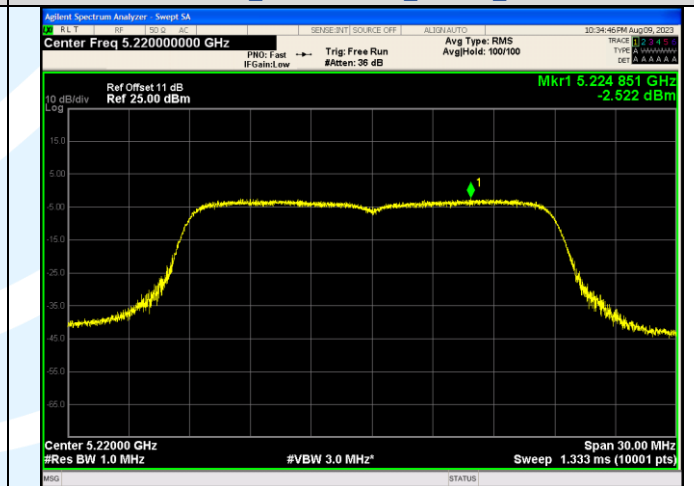
IEEE 802.11a\_Channel 116\_20MHz\_Antenna 0



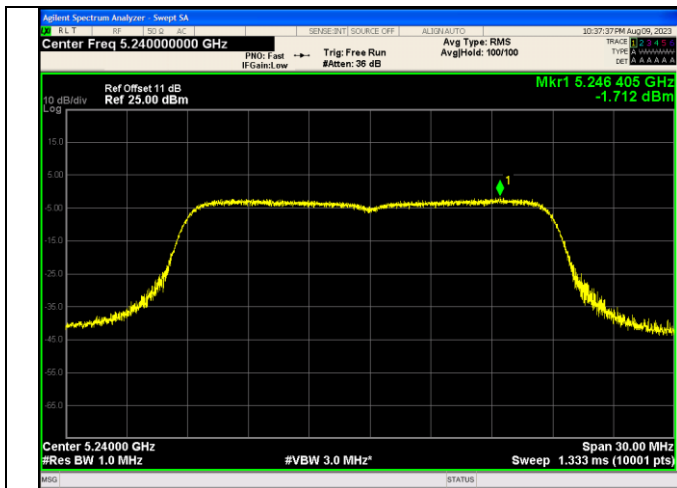
IEEE 802.11a\_Channel 140\_20MHz\_Antenna 0



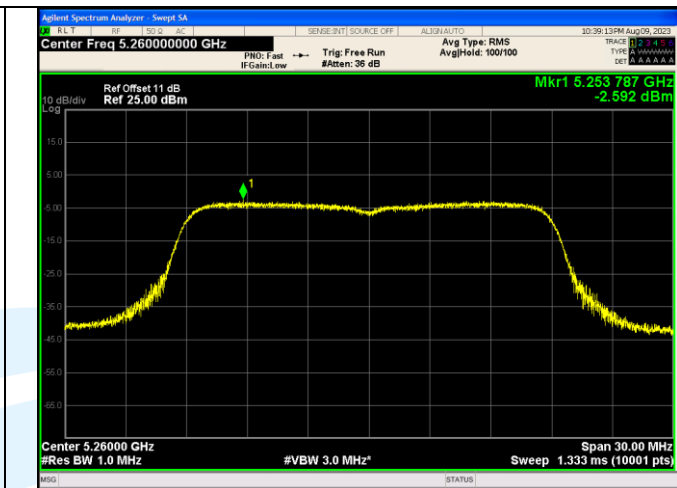
IEEE 802.11n\_Channel 36\_20MHz\_Antenna 0



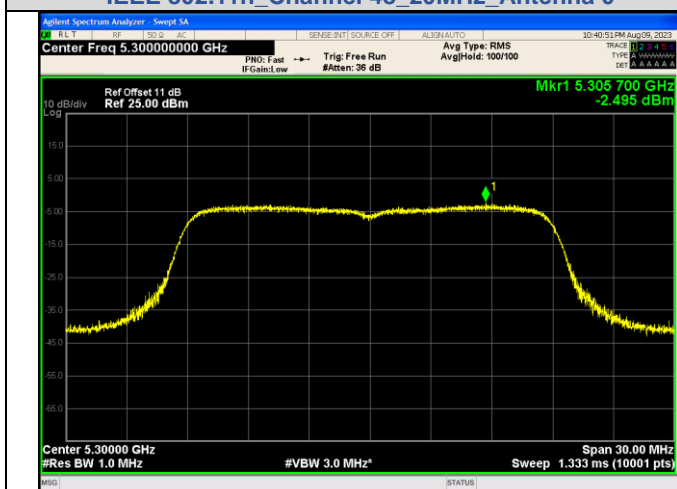
IEEE 802.11n\_Channel 44\_20MHz\_Antenna 0



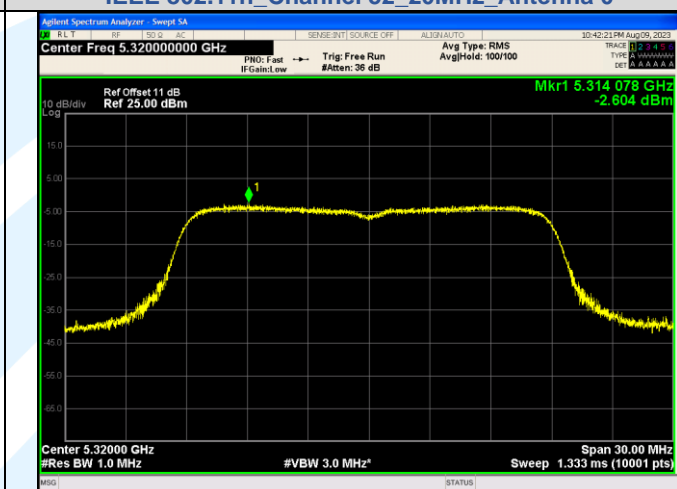
IEEE 802.11n\_Channel 48\_20MHz\_Antenna 0



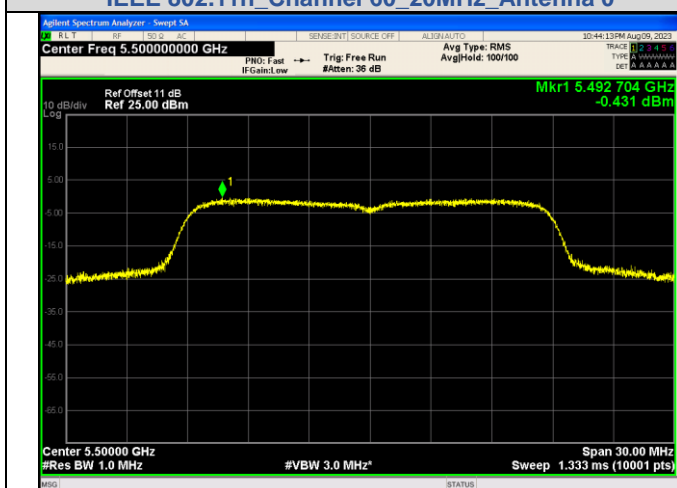
IEEE 802.11n\_Channel 52\_20MHz\_Antenna 0



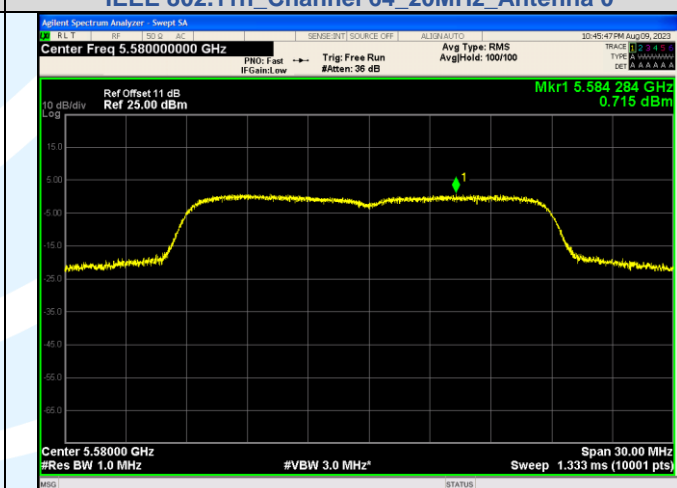
IEEE 802.11n\_Channel 60\_20MHz\_Antenna 0



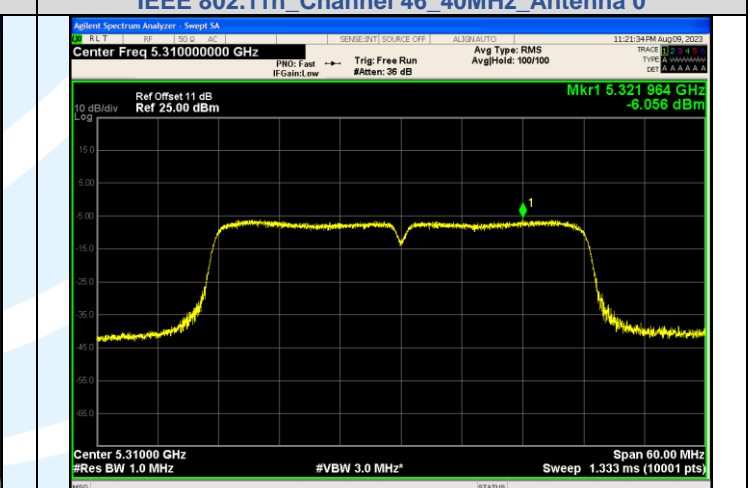
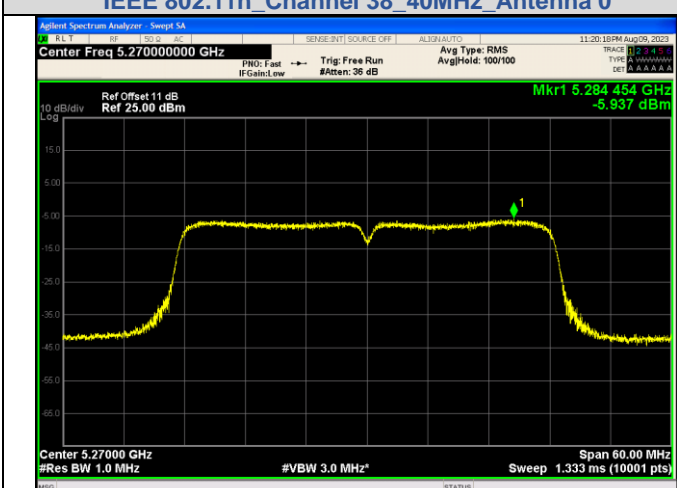
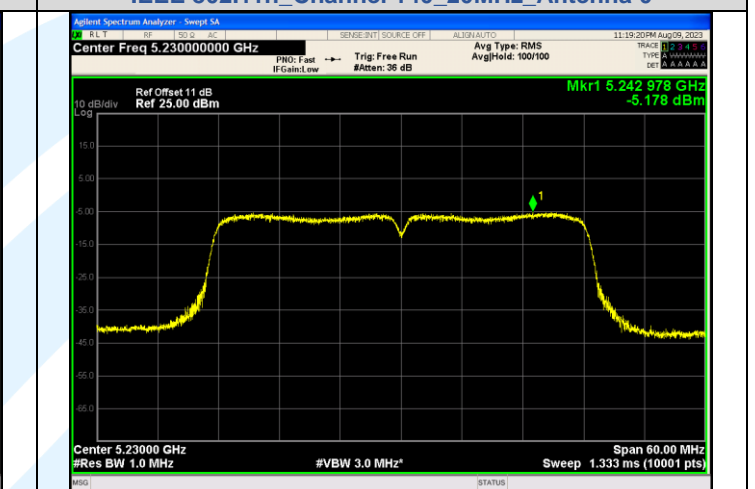
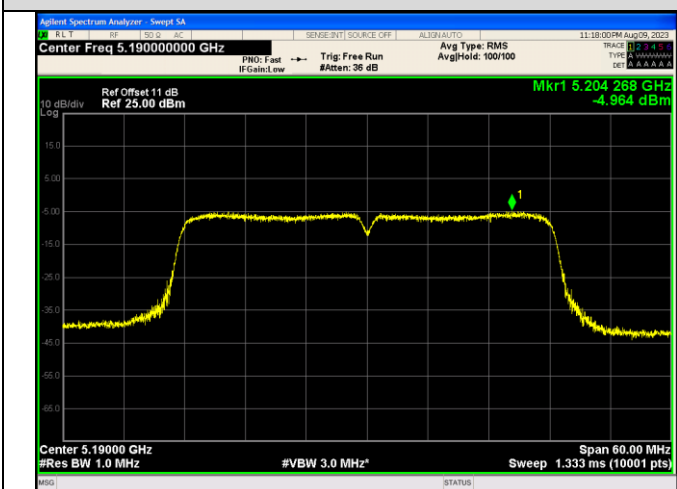
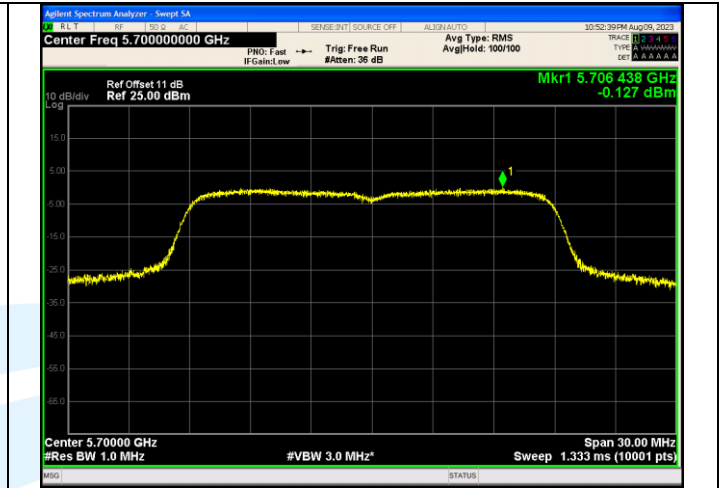
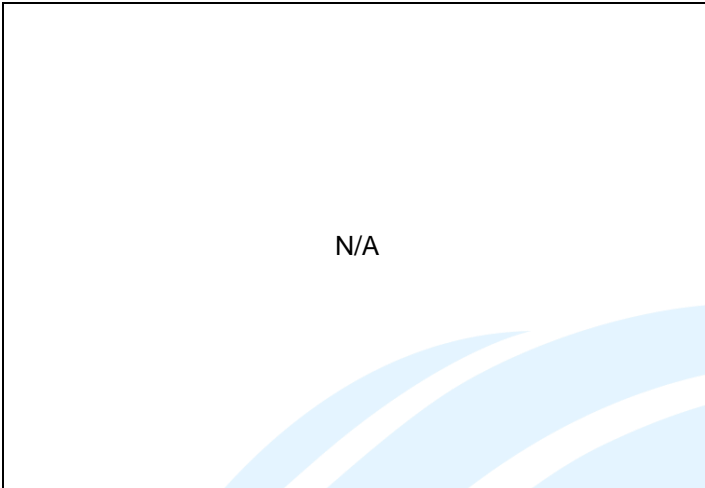
IEEE 802.11n\_Channel 64\_20MHz\_Antenna 0

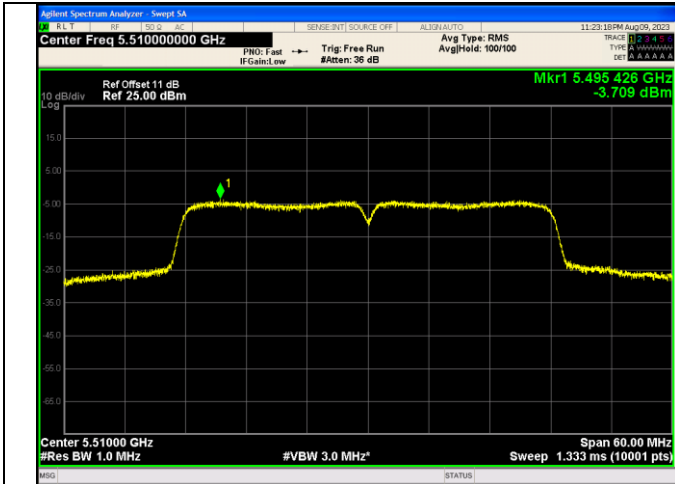


IEEE 802.11n\_Channel 100\_20MHz\_Antenna 0

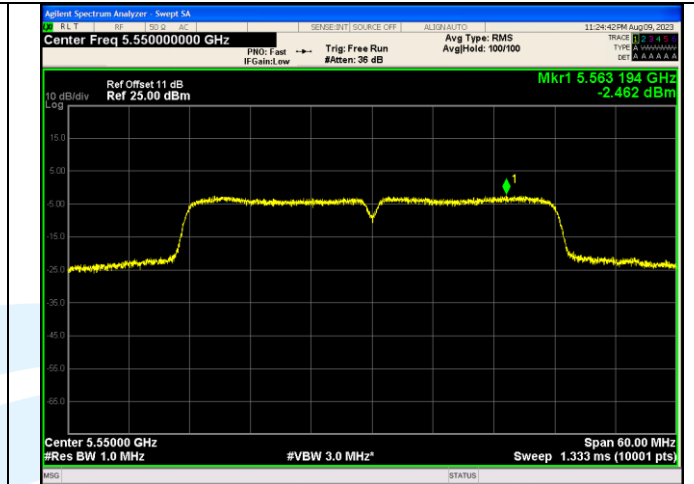


IEEE 802.11n\_Channel 116\_20MHz\_Antenna 0

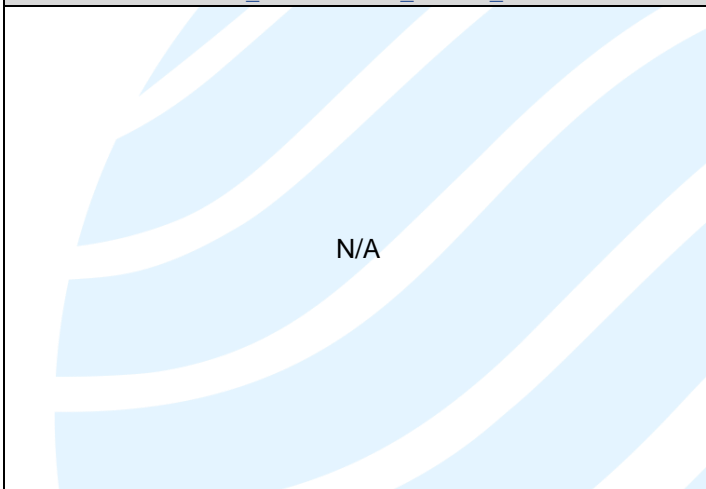




IEEE 802.11n\_Channel 102\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 110\_40MHz\_Antenna 0

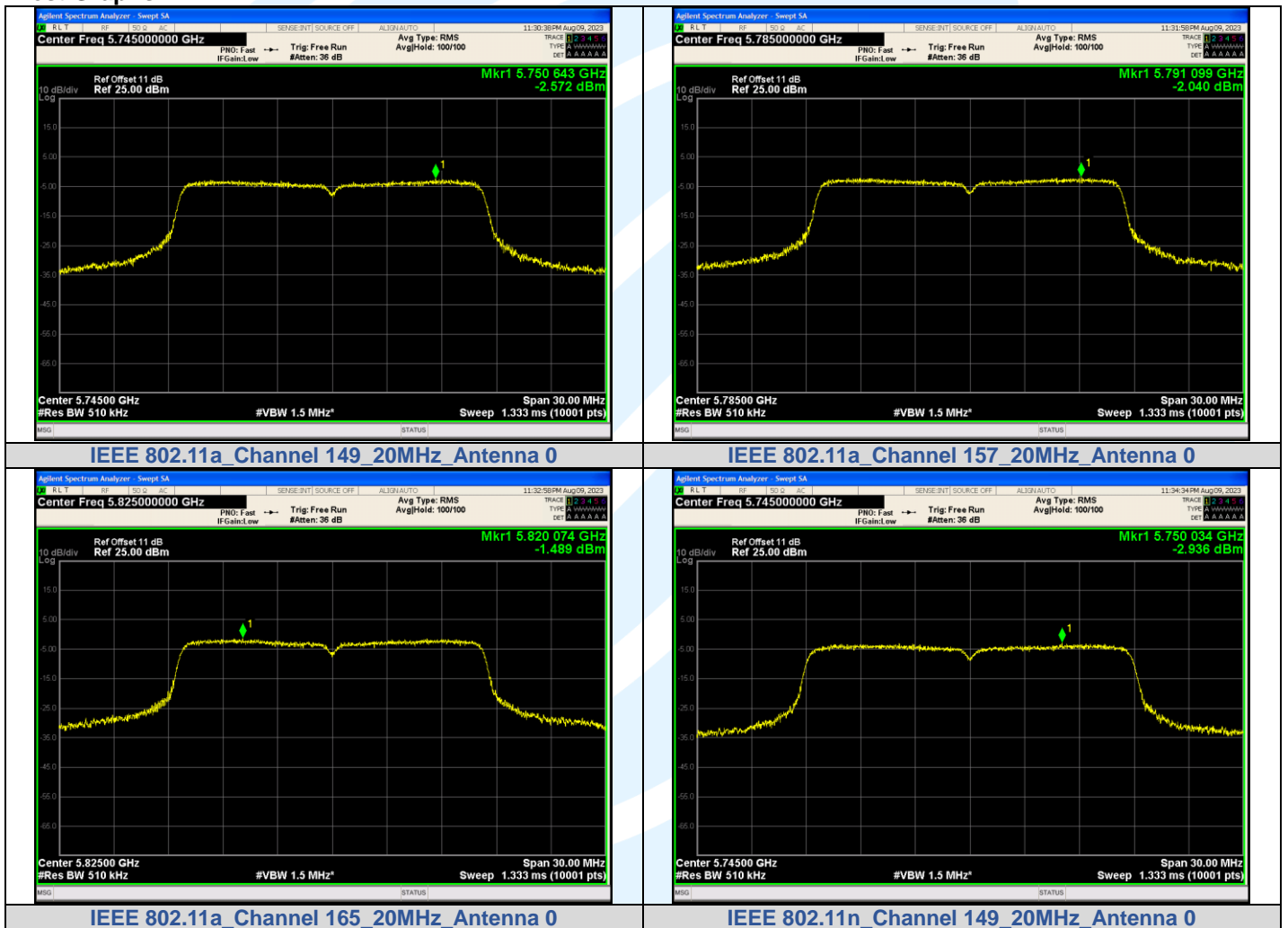


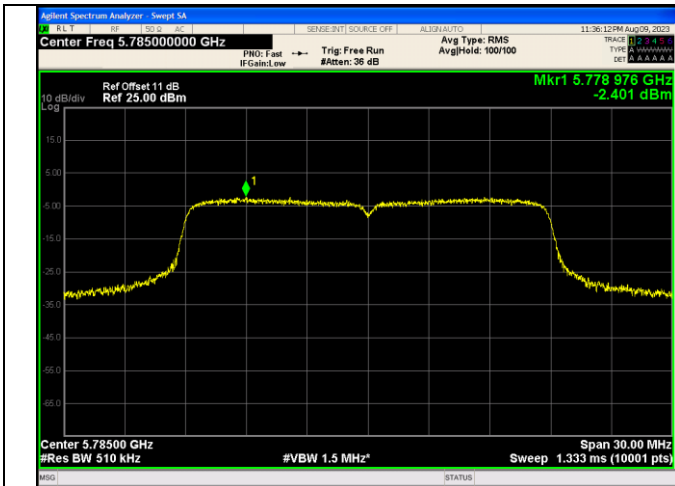
IEEE 802.11n\_Channel 134\_40MHz\_Antenna 0

For U-NII-3 band

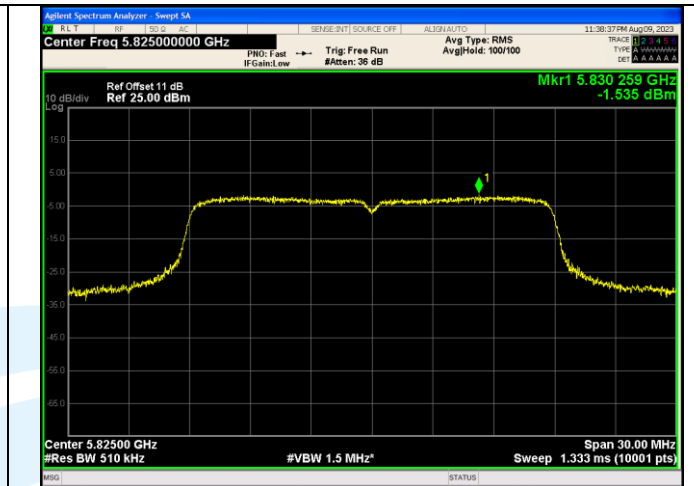
Mode	Channel	Ant. 0 Meas PSD (dBm/MHz or dBm/0.5MHz)	Ant. 0 Corr'd PSD (dBm/MHz or dBm/0.5MHz)	Limit (dBm/MHz or dBm/0.5MHz)	Result
IEEE 802.11a	149	-2.572	-2.26	30	PASS
	157	-2.040	-1.73		PASS
	165	-1.489	-1.18		PASS
IEEE 802.11n_20	149	-2.936	-2.59		PASS
	157	-2.401	-2.05		PASS
	165	-1.535	-1.19		PASS
IEEE 802.11n_40	151	-6.478	-5.85		PASS
	159	-5.518	-4.89		PASS

Test Graphs

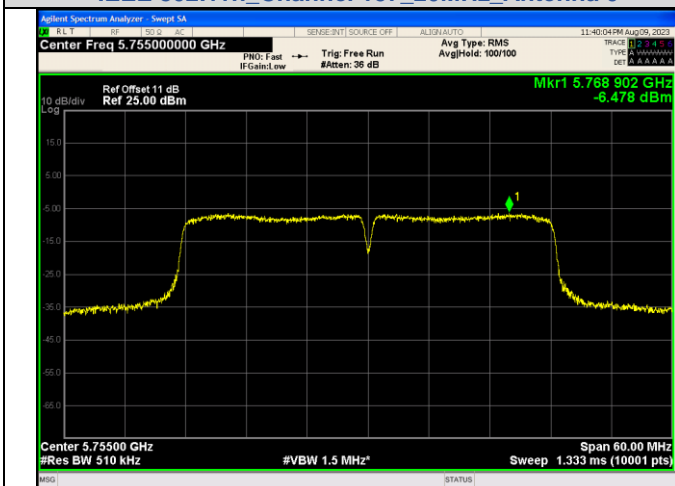




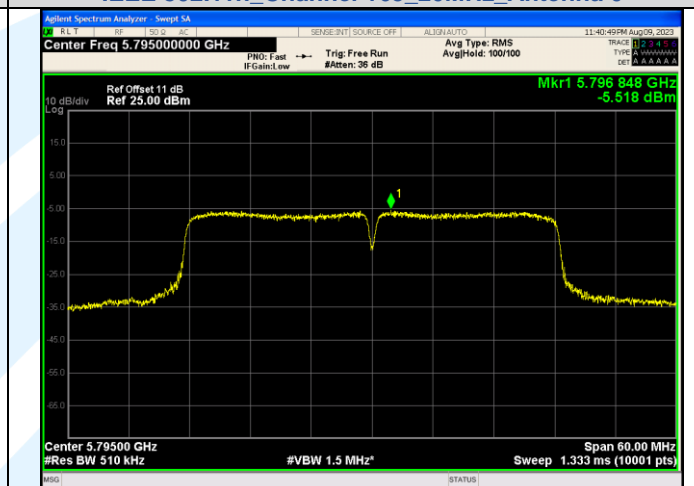
IEEE 802.11n\_Channel 157\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 165\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 151\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 159\_40MHz\_Antenna 0

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Tel: +86-755-28230888

Fax: +86-755-28230886

E-mail: info@uttlab.com

<http://www.uttlab.com>

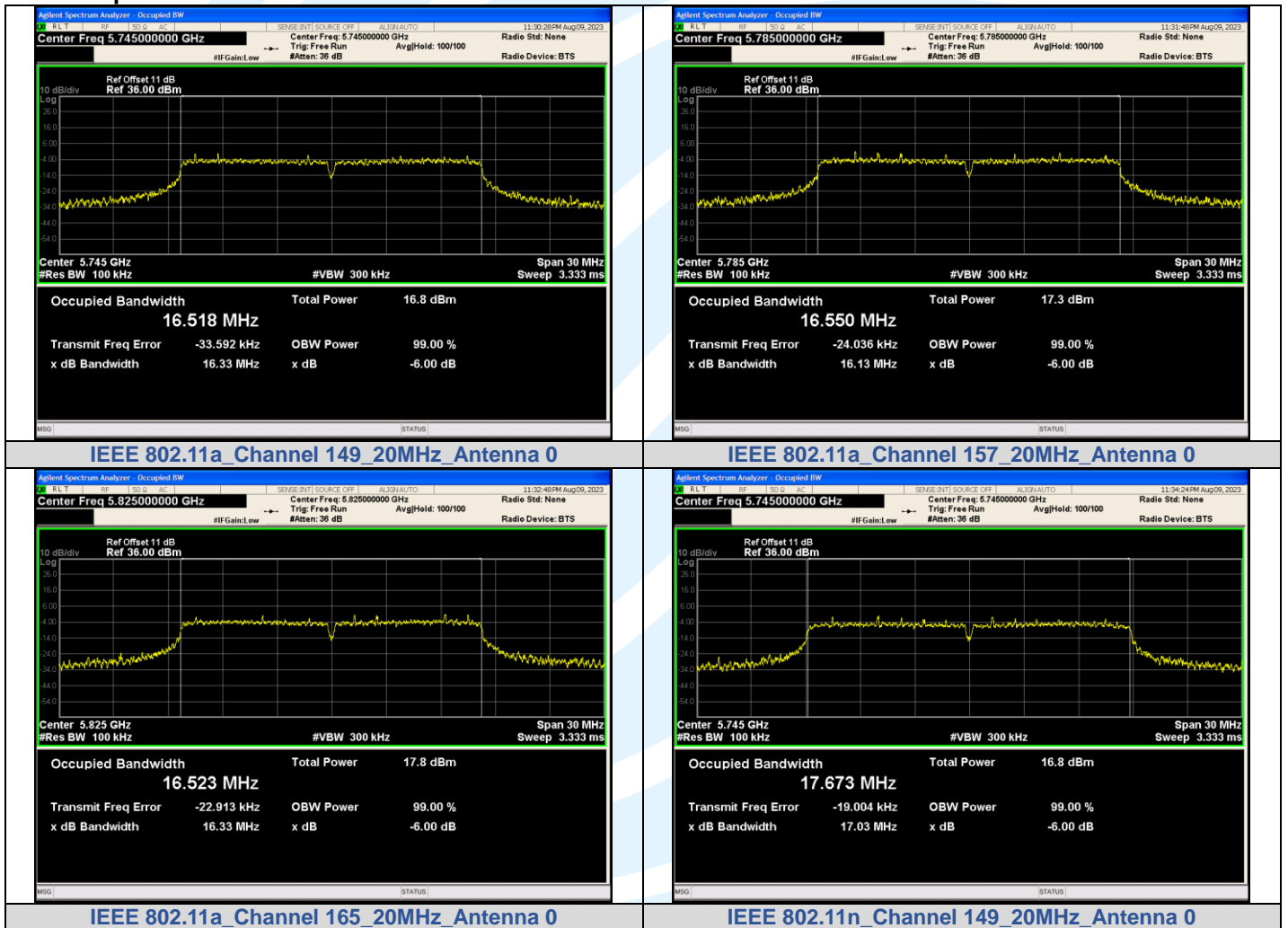
UTTR-RF-FCCPART15.407-V1.2

## A.4 6DB BANDWIDTH

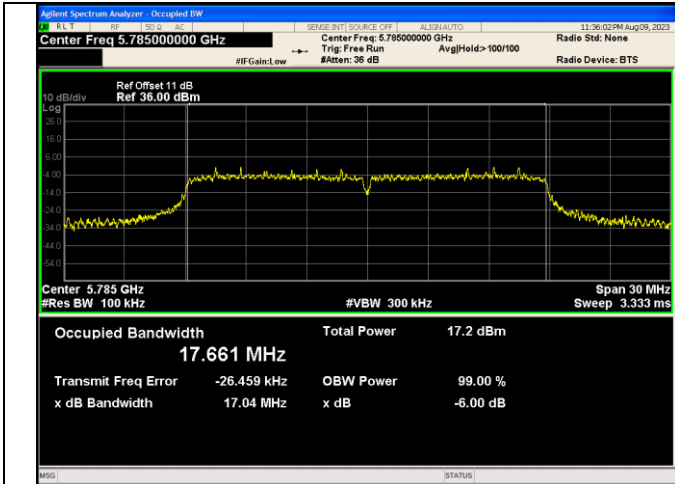
For U-NII-3 band

Mode	Channel	Ant.	Center Frequency (MHz)	6 dB Bandwidth (MHz)	Limit (MHz)	Result
IEEE 802.11a	149	0	5745	16.33	0.5	PASS
	157		5785	16.13		PASS
	165		5825	16.33		PASS
IEEE 802.11n_20	149		5745	17.03		PASS
	157		5785	17.04		PASS
	165		5825	17.18		PASS
IEEE 802.11n_40	151		5755	35.69		PASS
	159		5795	35.55		PASS

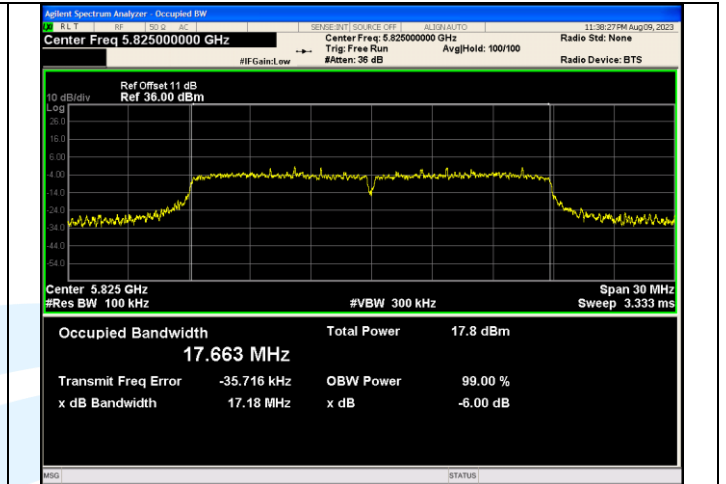
### Test Graphs



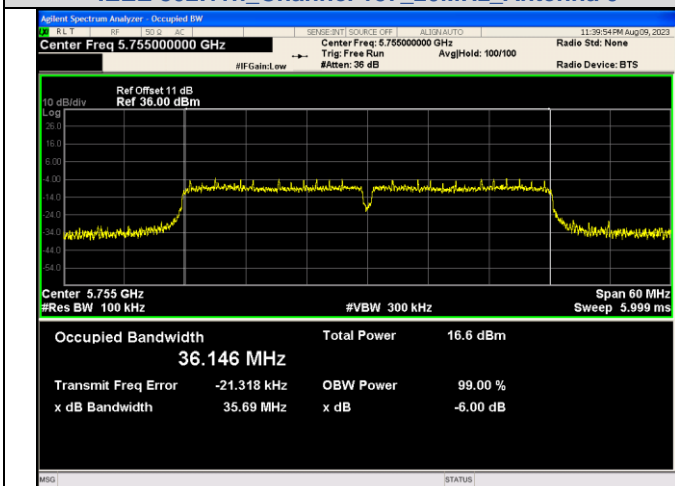




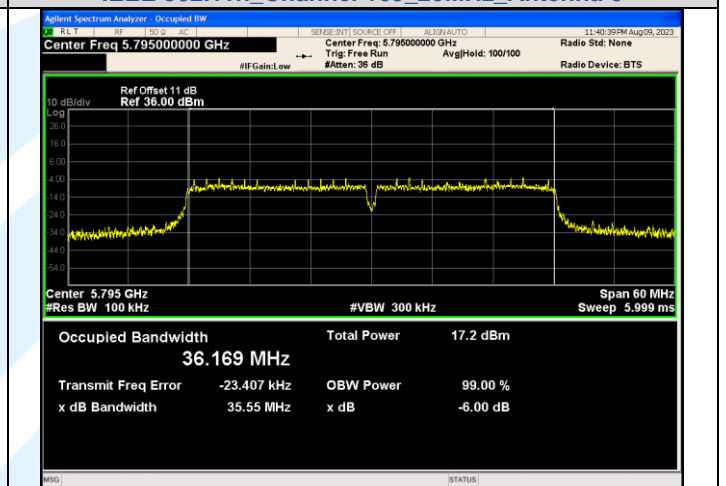
IEEE 802.11n\_Channel 157\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 165\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 151\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 159\_40MHz\_Antenna 0

## APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

## APPENDIX 2 PHOTOS OF EUT CONSTRUCTIONAL DETAILS

Refer to Appendix 2 for EUT external and internal photos.

\*\*\* End of Report \*\*\*

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The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of UnionTrust, this report can't be reproduced except in full.

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