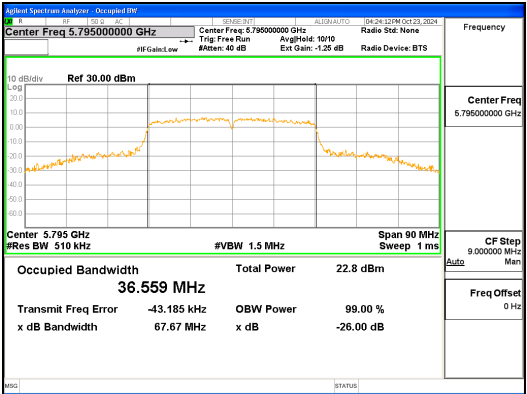
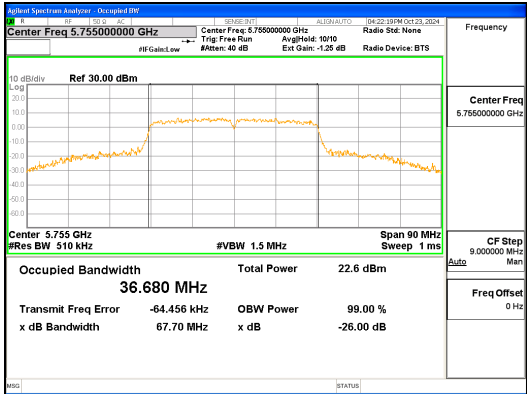




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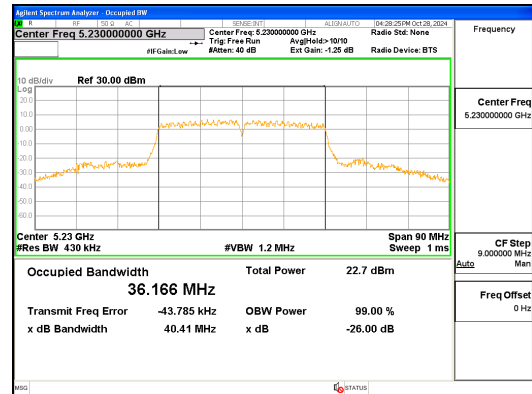
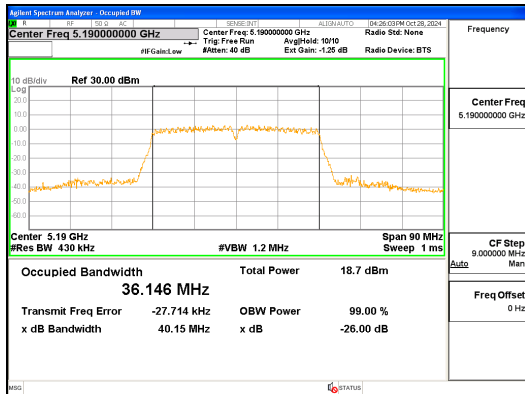


ANT R_802.11n_HT40_UNII 3

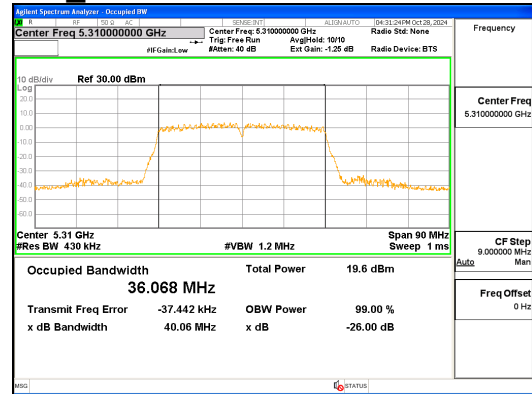
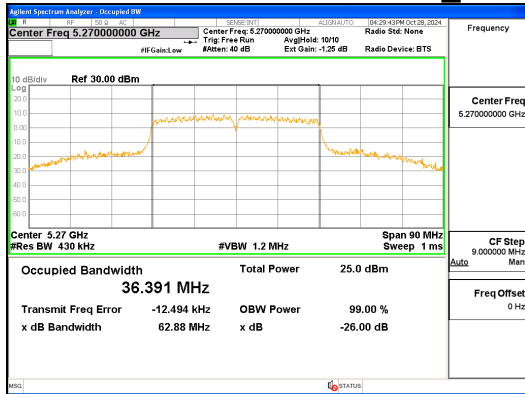


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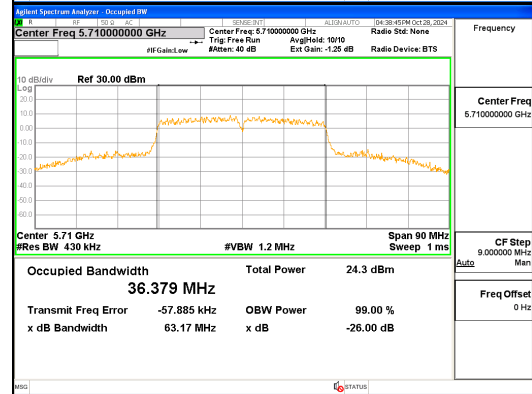
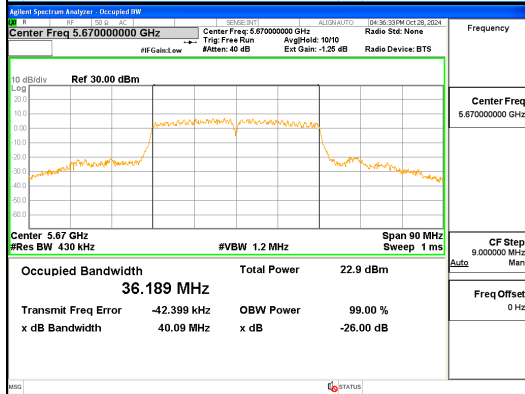
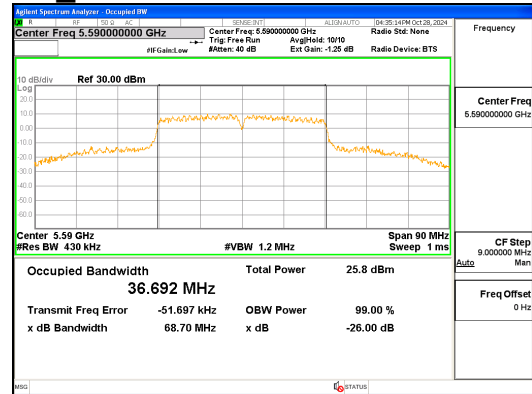
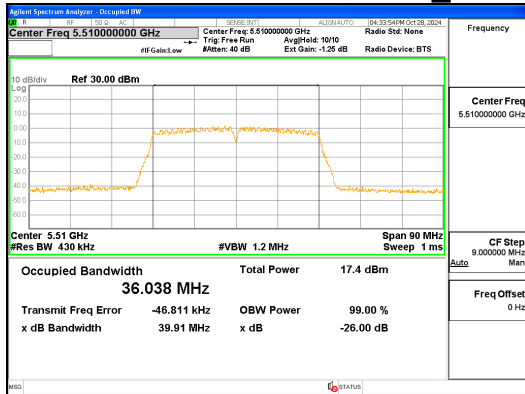
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ANT L_802.11ac_VHT40_UNII 2A

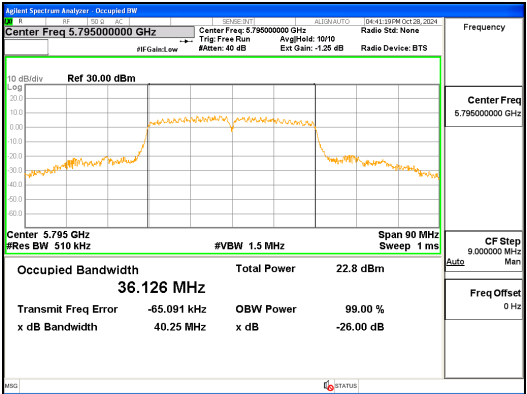
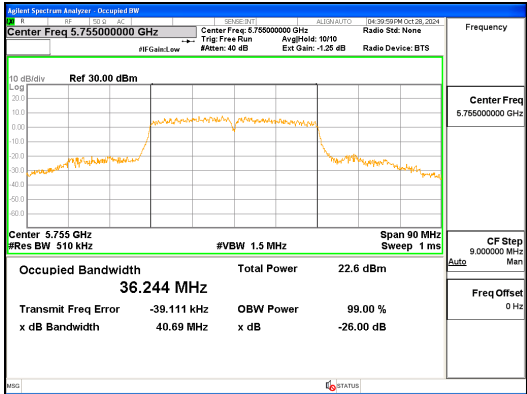


ANT L_802.11ac_VHT40_UNII 2C



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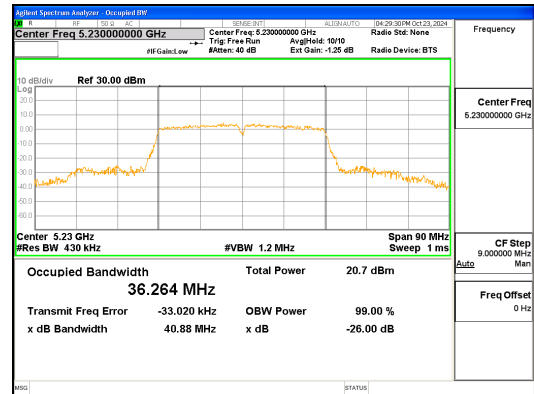
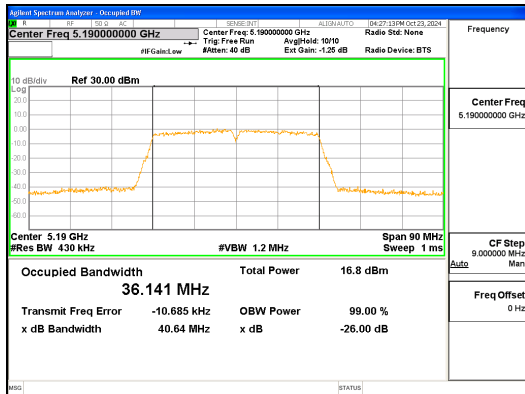


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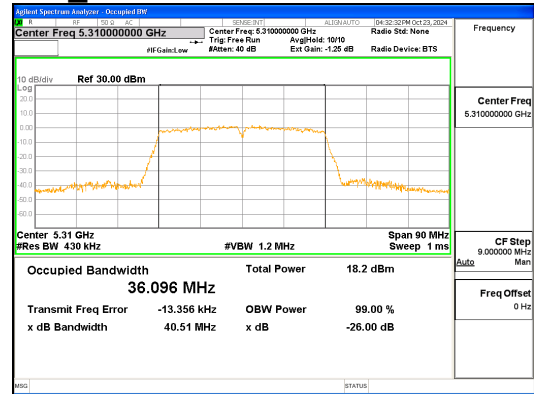
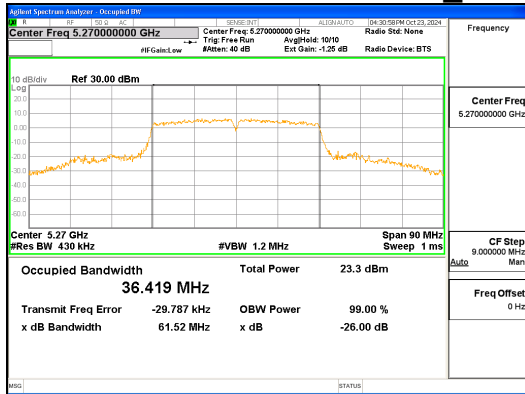


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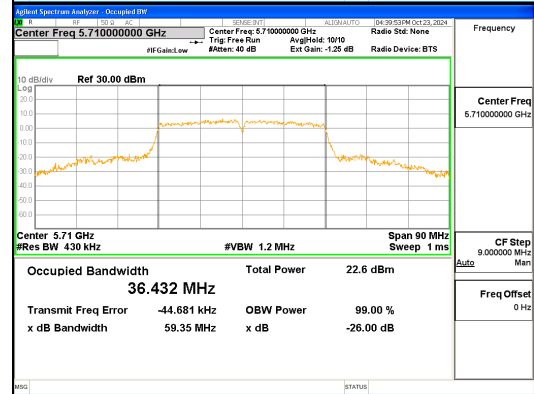
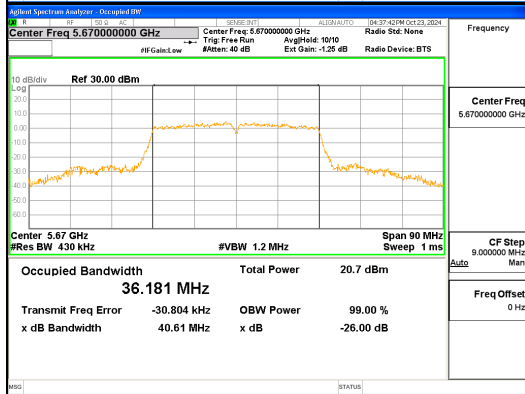
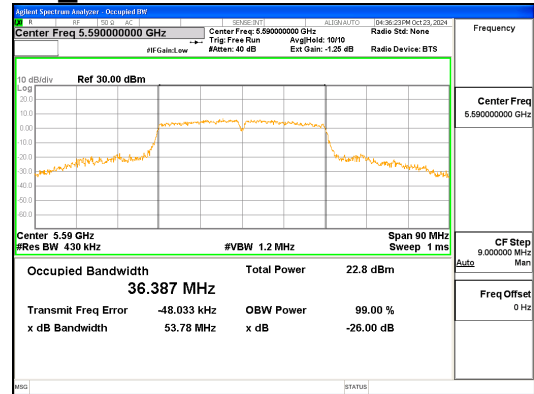
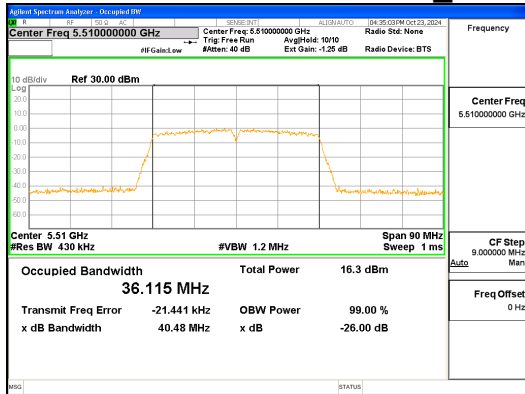
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ANT R_802.11ac_VHT40_UNII 1



ANT R_802.11ac_VHT40_UNII 2A

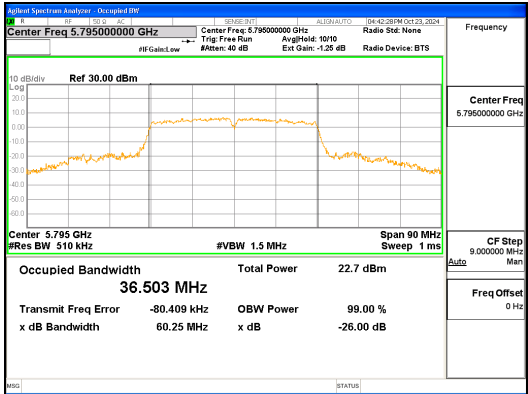
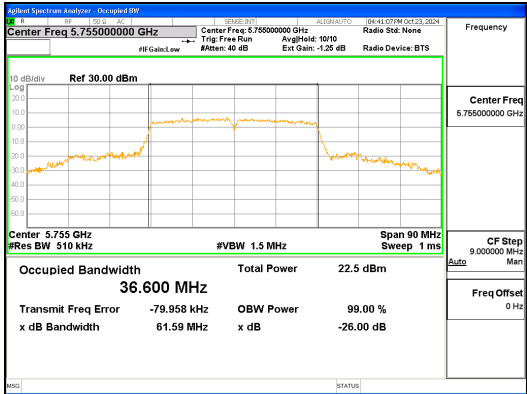


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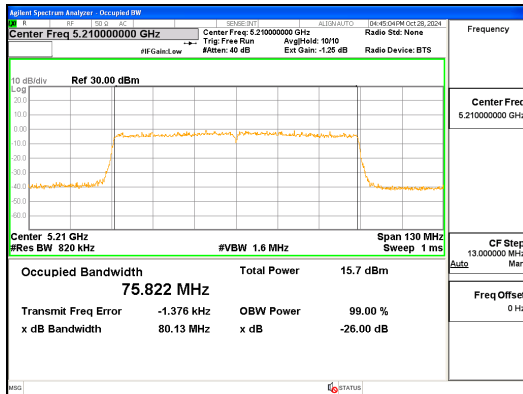


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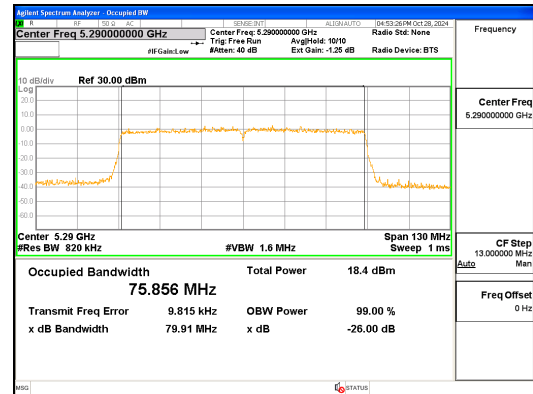
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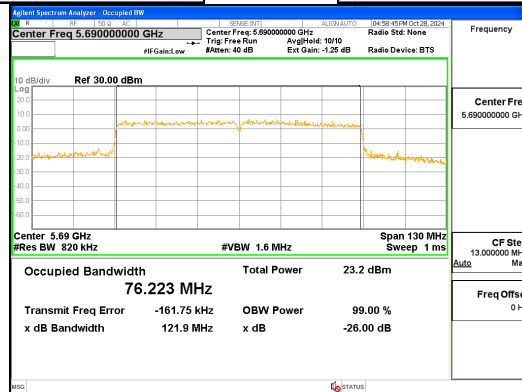
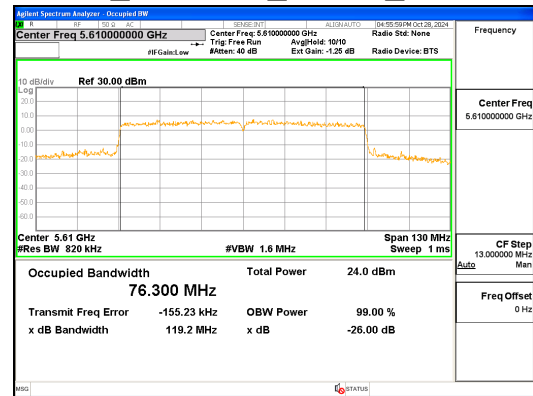
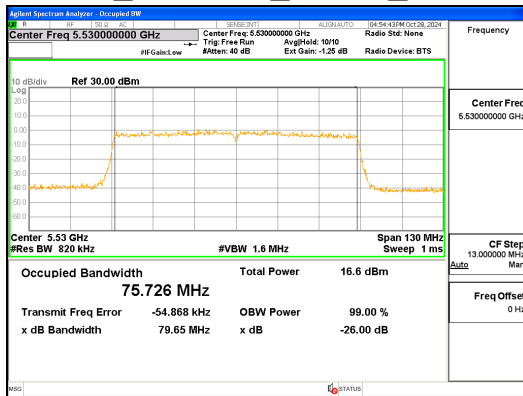
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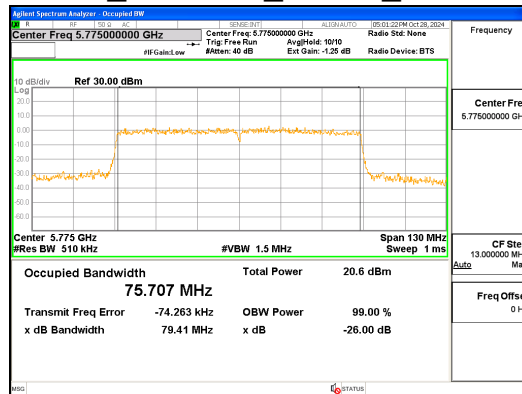
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ANT L_802.11ac_VHT80_UNII 2C

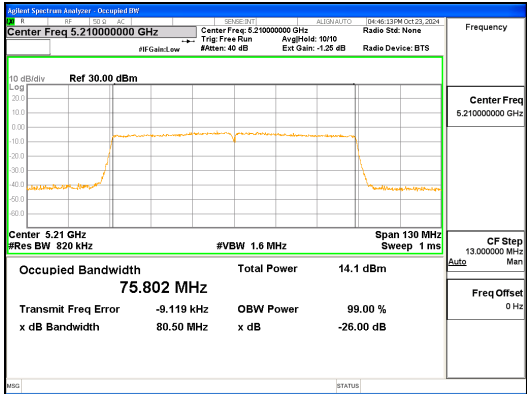


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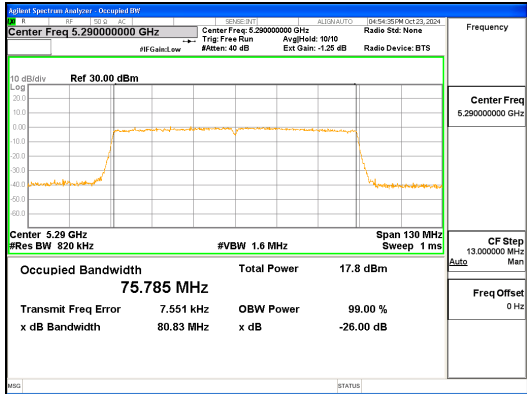


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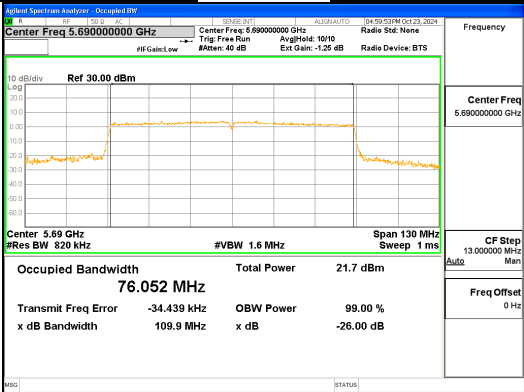
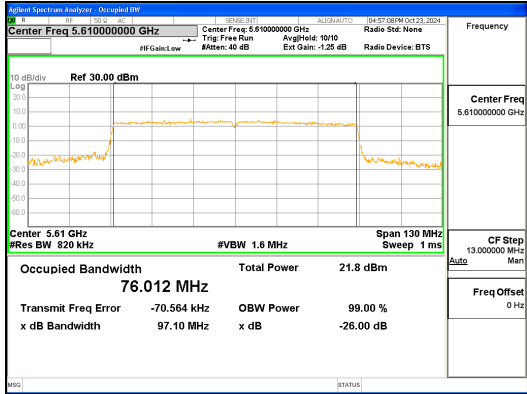
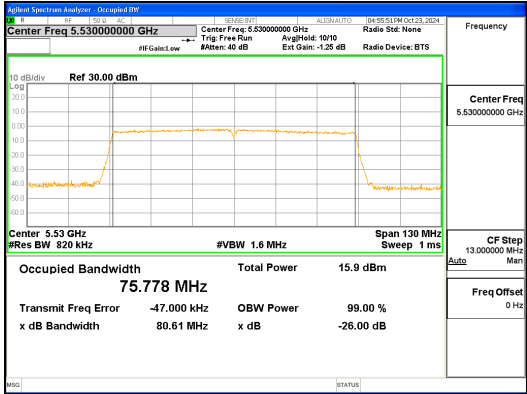
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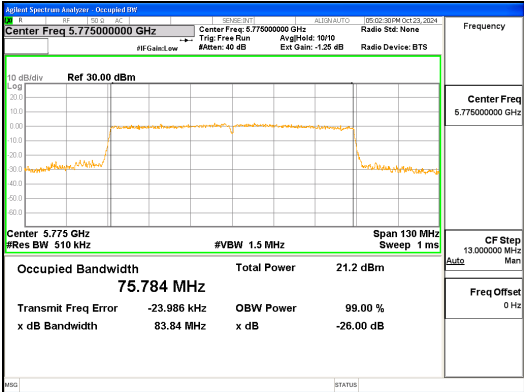
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ANT R_802.11ac_VHT80_UNII 2C



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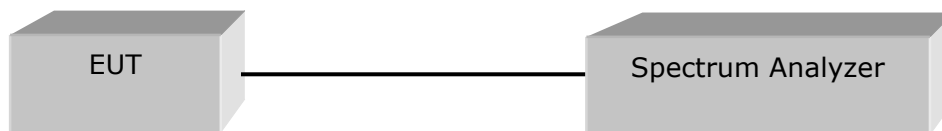
4.3 OUTPUT POWER

Test Procedures

<802.11a/n/ac>

KDB 789033 – Section E.2.d (Method SA-2, Maximum Conducted Output Power)
KDB 662911 D01, D02 (Multiple Transmitter Output)
ANSI C63.10-2013 – Section 12.3.2.4

The transmitter output is connected to a spectrum analyzer and the analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth.



Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz
- b) VBW $\geq 3 \times$ RBW
- c) Sweep time = auto
- d) Detector = power averaging (rms)
- e) Trace mode = Average at least 100
- f) Duty cycle factor = $10\log(1/x)$

Test mode	Duty Cycle Factor (dB)
802.11a	0.09 dB
802.11n_HT20	0.10 dB
802.11n_HT40	0.22 dB
802.11ac_VHT20	0.20 dB
802.11ac_VHT40	0.40 dB
802.11ac_VHT80	2.35 dB

Limit

Operating Mode	Mode	ANT Configuration	ANT Gain (dBi)	Band	Limit (dBm)
SISO	802.11a/n/ac	ANT L, ANT R	0.82, 0.43	UNII 1	24.00
				UNII 2A	24.00
			1.04, 1.20	UNII 2C	24.00
				UNII 3	30.00
MIMO (2Tx)	802.11a/n/ac	ANT L + ANT R	3.64	UNII 1	24.00
				UNII 2A	24.00
			4.13	UNII 2C	24.00
				UNII 3	30.00

Note :

Per KDB 662911, the MIMO directional gain is calculated using the following formula, Where G_N is the gain of the nth antenna and N_{ANT} , the total number of antennas used.

$$\text{Directional gain} = 10 \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}] \text{ dBi}$$

Test Data

ANT L(SISO)

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	15.31	0.09	15.40	24.00	8.60
	5 200	18.51	0.09	18.60	24.00	5.40
	5 240	18.39	0.09	18.48	24.00	5.52
	5 260	19.25	0.09	19.34	24.00	4.66
	5 300	19.24	0.09	19.33	24.00	4.67
	5 320	17.55	0.09	17.64	24.00	6.36
	5 500	14.58	0.09	14.67	24.00	9.33
	5 600	18.79	0.09	18.88	24.00	5.12
	5 700	14.36	0.09	14.45	24.00	9.55
	5 720	17.45	0.09	17.54	24.00	6.46
	5 745	17.14	0.09	17.23	30.00	12.77
	5 785	17.17	0.09	17.26	30.00	12.74
	5 825	18.38	0.09	18.47	30.00	11.53
802.11n _HT20	5 180	12.71	0.10	12.81	24.00	11.19
	5 200	12.52	0.10	12.62	24.00	11.38
	5 240	12.72	0.10	12.82	24.00	11.18
	5 260	16.43	0.10	16.53	24.00	7.47
	5 300	16.47	0.10	16.57	24.00	7.43
	5 320	15.90	0.10	16.00	24.00	8.00
	5 500	13.39	0.10	13.49	24.00	10.51
	5 600	17.77	0.10	17.87	24.00	6.13
	5 700	11.96	0.10	12.06	24.00	11.94
	5 720	16.32	0.10	16.42	24.00	7.58
	5 745	16.46	0.10	16.56	30.00	13.44
	5 785	16.56	0.10	16.66	30.00	13.34
	5 825	17.88	0.10	17.98	30.00	12.02
802.11ac _VHT20	5 180	13.14	0.20	13.34	24.00	10.66
	5 200	13.60	0.20	13.80	24.00	10.20
	5 240	13.30	0.20	13.50	24.00	10.50
	5 260	17.58	0.20	17.78	24.00	6.22
	5 300	17.26	0.20	17.46	24.00	6.54
	5 320	17.51	0.20	17.71	24.00	6.29
	5 500	14.47	0.20	14.67	24.00	9.33

	5 600	17.95	0.20	18.15	24.00	5.85
	5 700	13.10	0.20	13.30	24.00	10.70
	5 720	16.48	0.20	16.68	24.00	7.32
	5 745	16.66	0.20	16.86	30.00	13.14
	5 785	16.61	0.20	16.81	30.00	13.19
	5 825	17.94	0.20	18.14	30.00	11.86
802.11n _HT40	5 190	10.50	0.22	10.72	24.00	13.28
	5 230	15.84	0.22	16.06	24.00	7.94
	5 270	18.21	0.22	18.43	24.00	5.57
	5 310	12.41	0.22	12.63	24.00	11.37
	5 510	8.88	0.22	9.10	24.00	14.90
	5 590	18.99	0.22	19.21	24.00	4.79
	5 670	13.94	0.22	14.16	24.00	9.84
	5 710	17.32	0.22	17.54	24.00	6.46
	5 755	15.85	0.22	16.07	30.00	13.93
	5 795	16.10	0.22	16.32	30.00	13.68
802.11ac _VHT40	5 190	11.82	0.40	12.22	24.00	11.78
	5 230	15.68	0.40	16.08	24.00	7.92
	5 270	18.02	0.40	18.42	24.00	5.58
	5 310	12.50	0.40	12.90	24.00	11.10
	5 510	10.30	0.40	10.70	24.00	13.30
	5 590	18.69	0.40	19.09	24.00	4.91
	5 670	15.87	0.40	16.27	24.00	7.73
	5 710	17.19	0.40	17.59	24.00	6.41
	5 755	15.51	0.40	15.91	30.00	14.09
	5 795	15.79	0.40	16.19	30.00	13.81
802.11ac _VHT80	5 210	7.50	2.35	9.85	24.00	14.15
	5 290	9.95	2.35	12.30	24.00	11.70
	5 530	8.03	2.35	10.38	24.00	13.62
	5 610	15.61	2.35	17.96	24.00	6.04
	5 690	14.90	2.35	17.25	24.00	6.75
	5 775	12.10	2.35	14.45	30.00	15.55
Measurement uncertainty		± 1.5 dB				

ANT R(SISO)

Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	17.14	0.09	17.23	24.00	6.77
	5 200	17.08	0.09	17.17	24.00	6.83
	5 240	16.78	0.09	16.87	24.00	7.13
	5 260	17.20	0.09	17.29	24.00	6.71
	5 300	17.32	0.09	17.41	24.00	6.59
	5 320	17.47	0.09	17.56	24.00	6.44
	5 500	16.55	0.09	16.64	24.00	7.36
	5 600	17.93	0.09	18.02	24.00	5.98
	5 700	15.71	0.09	15.80	24.00	8.20
	5 720	18.19	0.09	18.28	24.00	5.72
	5 745	18.05	0.09	18.14	30.00	11.86
	5 785	18.15	0.09	18.24	30.00	11.76
	5 825	17.77	0.09	17.86	30.00	12.14
802.11n _HT20	5 180	11.96	0.10	12.06	24.00	11.94
	5 200	11.86	0.10	11.96	24.00	12.04
	5 240	11.72	0.10	11.82	24.00	12.18
	5 260	16.01	0.10	16.11	24.00	7.89
	5 300	16.22	0.10	16.32	24.00	7.68
	5 320	16.01	0.10	16.11	24.00	7.89
	5 500	13.43	0.10	13.53	24.00	10.47
	5 600	16.03	0.10	16.13	24.00	7.87
	5 700	11.47	0.10	11.57	24.00	12.43
	5 720	16.11	0.10	16.21	24.00	7.79
	5 745	17.50	0.10	17.60	30.00	12.40
	5 785	17.62	0.10	17.72	30.00	12.28
	5 825	17.16	0.10	17.26	30.00	12.74
802.11ac _VHT20	5 180	12.61	0.20	12.81	24.00	11.19
	5 200	12.34	0.20	12.54	24.00	11.46
	5 240	12.21	0.20	12.41	24.00	11.59
	5 260	16.43	0.20	16.63	24.00	7.37
	5 300	16.74	0.20	16.94	24.00	7.06
	5 320	16.82	0.20	17.02	24.00	6.98
	5 500	14.53	0.20	14.73	24.00	9.27
	5 600	16.11	0.20	16.31	24.00	7.69

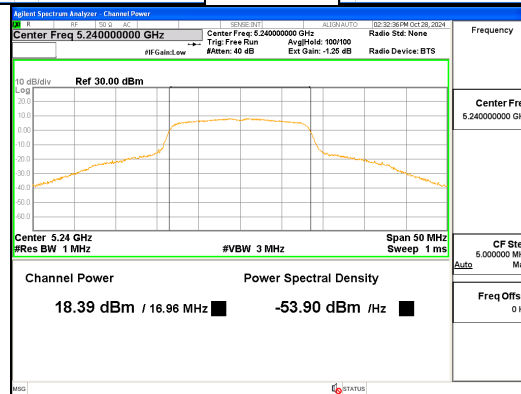
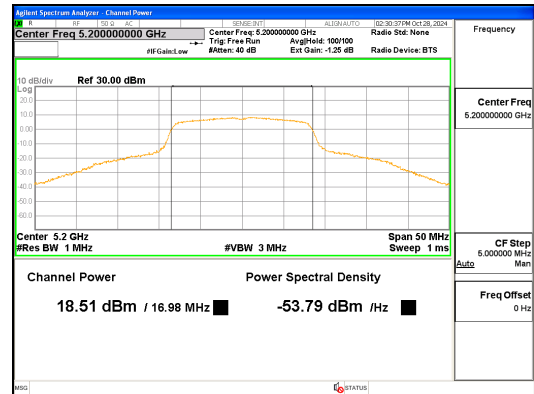
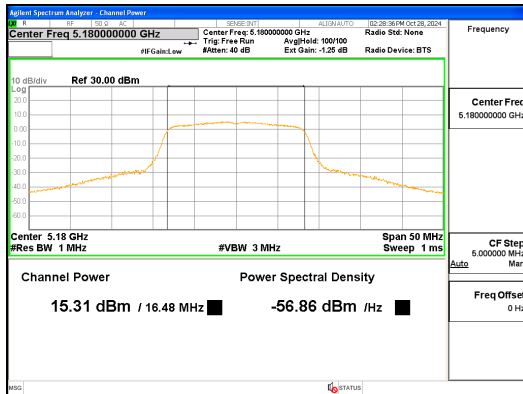
	5 700	12.45	0.20	12.65	24.00	11.35
	5 720	16.13	0.20	16.33	24.00	7.67
	5 745	17.53	0.20	17.73	30.00	12.27
	5 785	17.65	0.20	17.85	30.00	12.15
	5 825	17.31	0.20	17.51	30.00	12.49
802.11n _HT40	5 190	9.59	0.22	9.81	24.00	14.19
	5 230	14.90	0.22	15.12	24.00	8.88
	5 270	17.61	0.22	17.83	24.00	6.17
	5 310	12.03	0.22	12.25	24.00	11.75
	5 510	8.88	0.22	9.10	24.00	14.90
	5 590	16.95	0.22	17.17	24.00	6.83
	5 670	12.81	0.22	13.03	24.00	10.97
	5 710	16.79	0.22	17.01	24.00	6.99
	5 755	16.86	0.22	17.08	30.00	12.92
	5 795	17.16	0.22	17.38	30.00	12.62
802.11ac _VHT40	5 190	10.66	0.40	11.06	24.00	12.94
	5 230	14.71	0.40	15.11	24.00	8.89
	5 270	17.26	0.40	17.66	24.00	6.34
	5 310	12.19	0.40	12.59	24.00	11.41
	5 510	10.33	0.40	10.73	24.00	13.27
	5 590	16.80	0.40	17.20	24.00	6.80
	5 670	14.51	0.40	14.91	24.00	9.09
	5 710	16.46	0.40	16.86	24.00	7.14
	5 755	16.57	0.40	16.97	30.00	13.03
	5 795	16.88	0.40	17.28	30.00	12.72
802.11ac _VHT80	5 210	6.57	2.35	8.92	24.00	15.08
	5 290	10.19	2.35	12.54	24.00	11.46
	5 530	8.19	2.35	10.54	24.00	13.46
	5 610	14.15	2.35	16.50	24.00	7.50
	5 690	14.10	2.35	16.45	24.00	7.55
	5 775	13.02	2.35	15.37	30.00	14.63
Measurement uncertainty		± 1.5 dB				

ANT L + ANT R(MIMO)

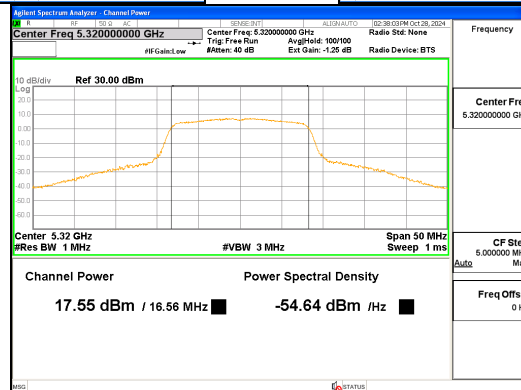
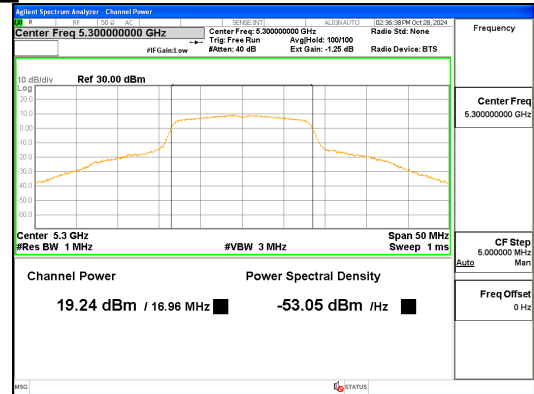
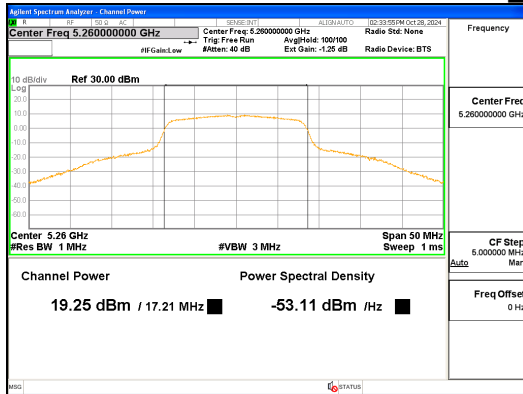
Test Mode	Frequency (MHz)	Measured Output Power (dBm)	Duty cycle Factor (dB)	Result Output Power (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	15.36	0.10	15.46	24.00	8.54
	5 200	15.21	0.10	15.31	24.00	8.69
	5 240	15.26	0.10	15.36	24.00	8.64
	5 260	19.24	0.10	19.34	24.00	4.66
	5 300	19.36	0.10	19.46	24.00	4.54
	5 320	18.97	0.10	19.07	24.00	4.93
	5 500	16.42	0.10	16.52	24.00	7.48
	5 600	20.00	0.10	20.10	24.00	3.90
	5 700	14.73	0.10	14.83	24.00	9.17
	5 720	19.23	0.10	19.33	24.00	4.67
	5 745	20.02	0.10	20.12	30.00	9.88
	5 785	20.13	0.10	20.23	30.00	9.77
	5 825	20.55	0.10	20.65	30.00	9.35
802.11ac _VHT20	5 180	15.89	0.20	16.09	24.00	7.91
	5 200	16.03	0.20	16.23	24.00	7.77
	5 240	15.80	0.20	16.00	24.00	8.00
	5 260	20.05	0.20	20.25	24.00	3.75
	5 300	20.02	0.20	20.22	24.00	3.78
	5 320	20.19	0.20	20.39	24.00	3.61
	5 500	17.51	0.20	17.71	24.00	6.29
	5 600	20.14	0.20	20.34	24.00	3.66
	5 700	15.80	0.20	16.00	24.00	8.00
	5 720	19.32	0.20	19.52	24.00	4.48
	5 745	20.13	0.20	20.33	30.00	9.67
	5 785	20.17	0.20	20.37	30.00	9.63
	5 825	20.65	0.20	20.85	30.00	9.15
802.11n _HT40	5 190	13.08	0.22	13.30	24.00	10.70
	5 230	18.41	0.22	18.63	24.00	5.37
	5 270	20.93	0.22	21.15	24.00	2.85
	5 310	15.23	0.22	15.45	24.00	8.55
	5 510	11.89	0.22	12.11	24.00	11.89
	5 590	21.10	0.22	21.32	24.00	2.68
	5 670	16.42	0.22	16.64	24.00	7.36
	5 710	20.07	0.22	20.29	24.00	3.71

	5 755	19.39	0.22	19.61	30.00	10.39
	5 795	19.67	0.22	19.89	30.00	10.11
802.11ac _VHT40	5 190	14.29	0.40	14.69	24.00	9.31
	5 230	18.23	0.40	18.63	24.00	5.37
	5 270	20.67	0.40	21.07	24.00	2.93
	5 310	15.36	0.40	15.76	24.00	8.24
	5 510	13.33	0.40	13.73	24.00	10.27
	5 590	20.86	0.40	21.26	24.00	2.74
	5 670	18.25	0.40	18.65	24.00	5.35
	5 710	19.85	0.40	20.25	24.00	3.75
	5 755	19.08	0.40	19.48	30.00	10.52
	5 795	19.38	0.40	19.78	30.00	10.22
802.11ac _VHT80	5 210	10.07	2.35	12.42	24.00	11.58
	5 290	13.08	2.35	15.43	24.00	8.57
	5 530	11.12	2.35	13.47	24.00	10.53
	5 610	17.95	2.35	20.30	24.00	3.70
	5 690	17.53	2.35	19.88	24.00	4.12
	5 775	15.59	2.35	17.94	30.00	12.06
Measurement uncertainty		± 1.5 dB				

See next pages for actual measured spectrum plots.



ANT L_802.11a_UNII 1

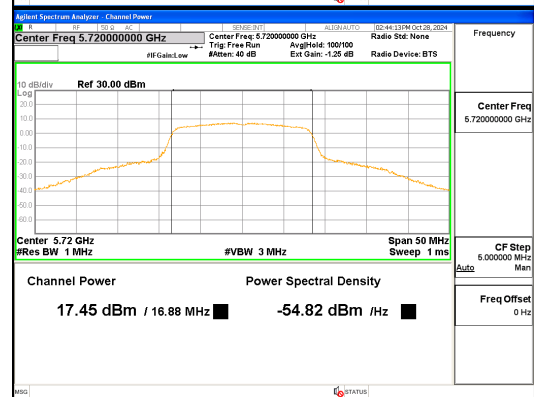
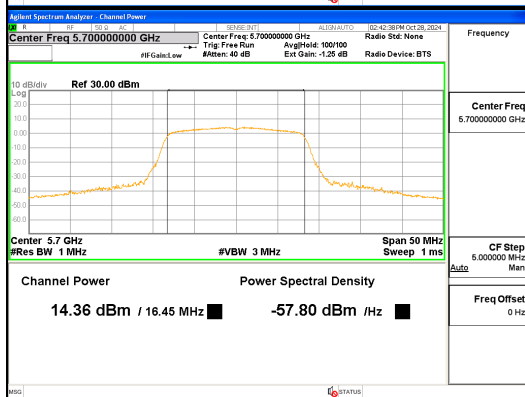
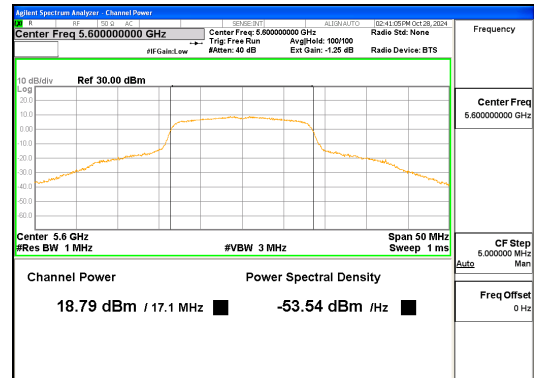
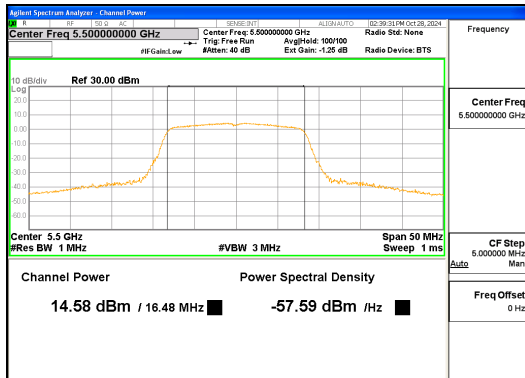


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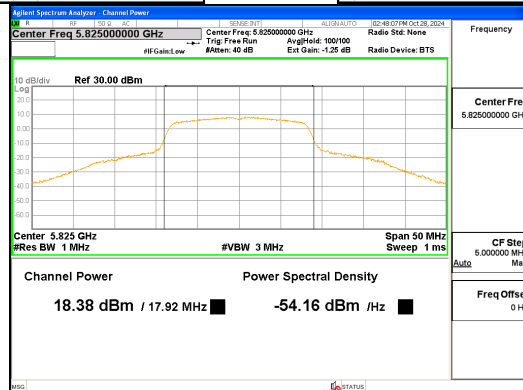
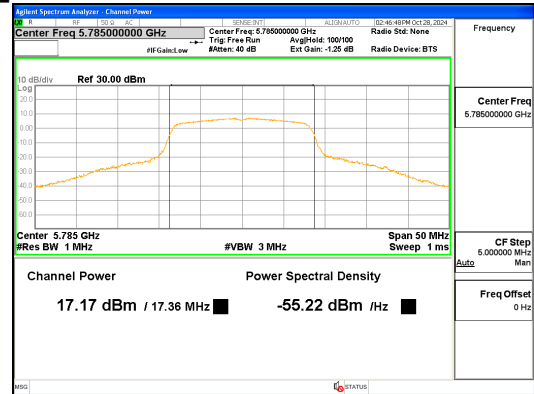
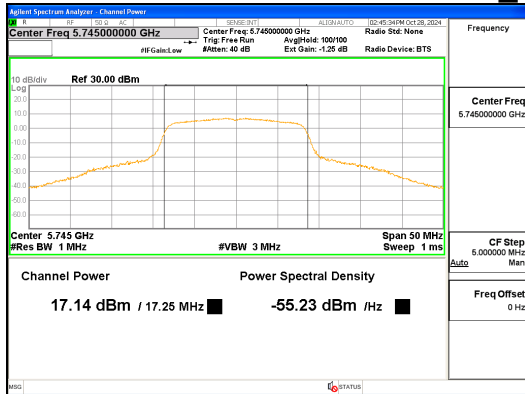


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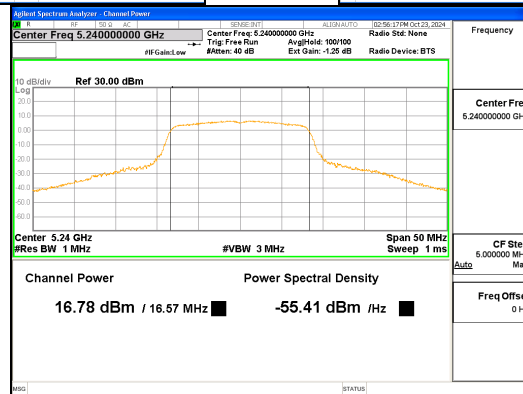
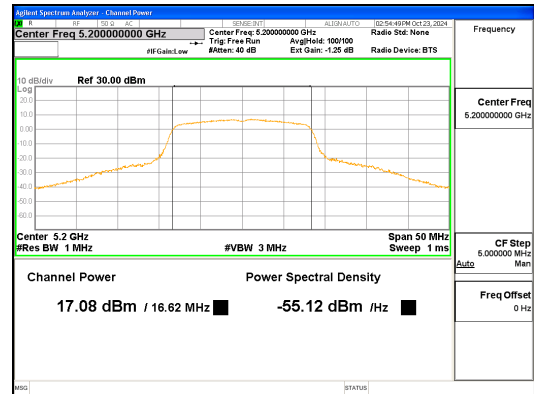
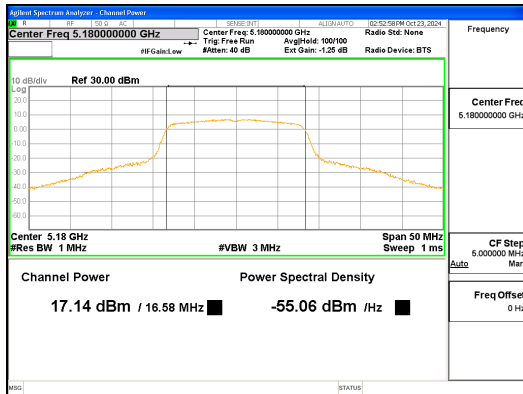
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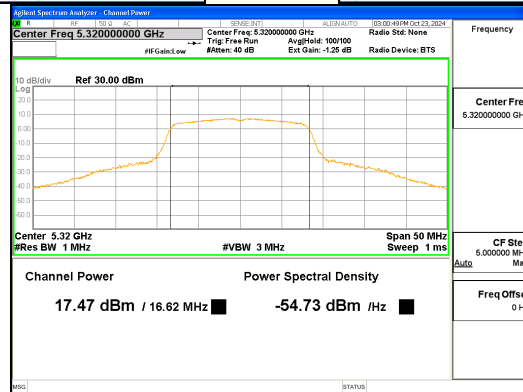
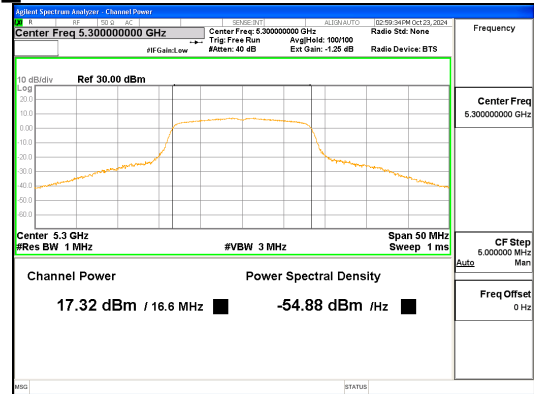
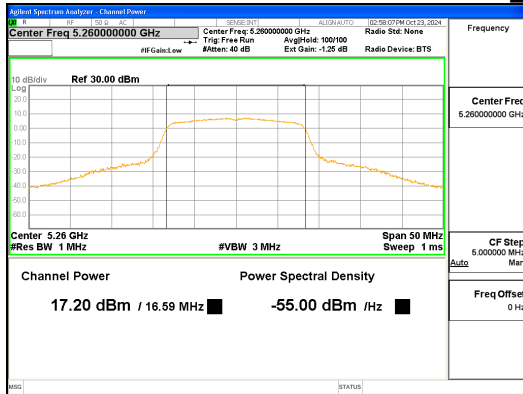
ANT L_802.11a_UNII 2C



ANT L_802.11a_UNII 3



ANT R_802.11a_UNII 1

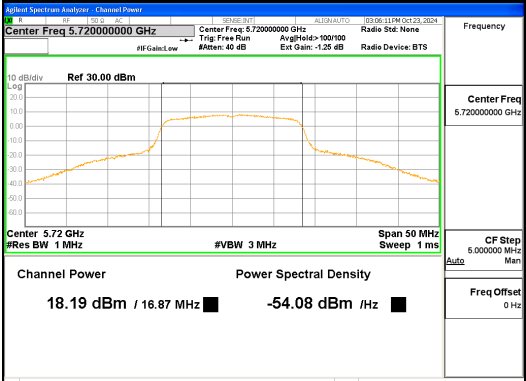
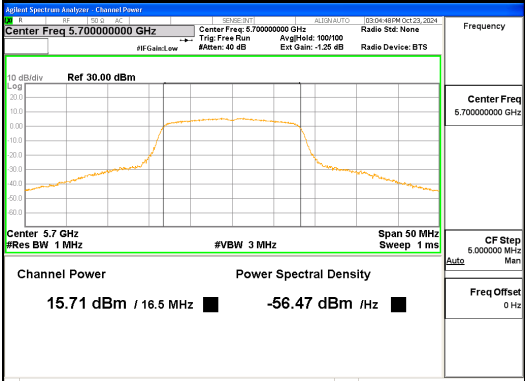
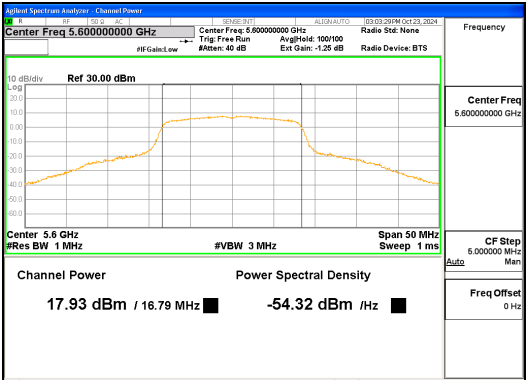
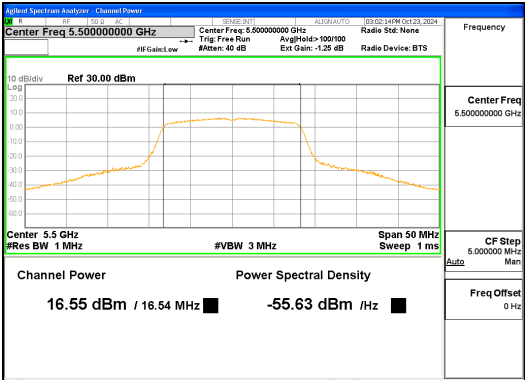


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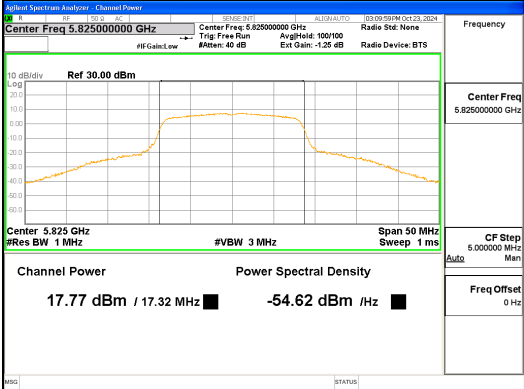
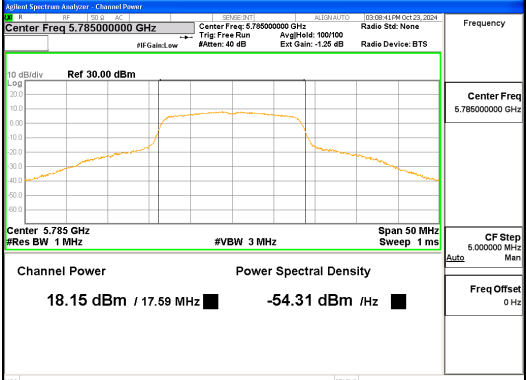
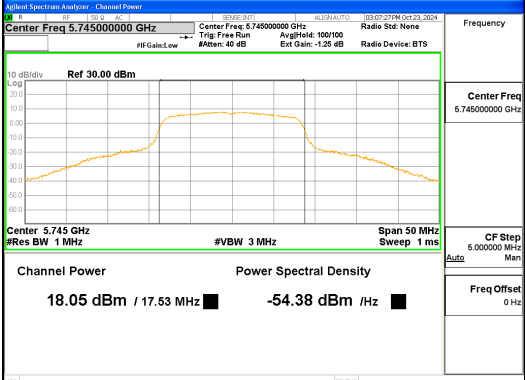


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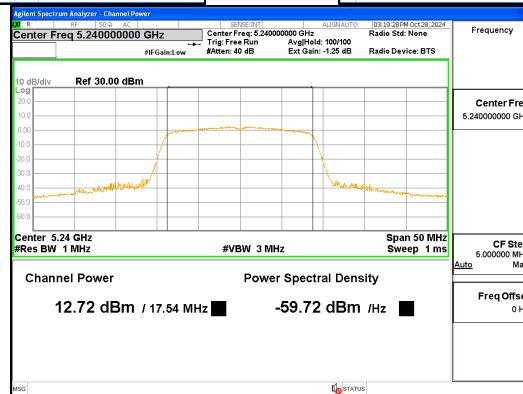
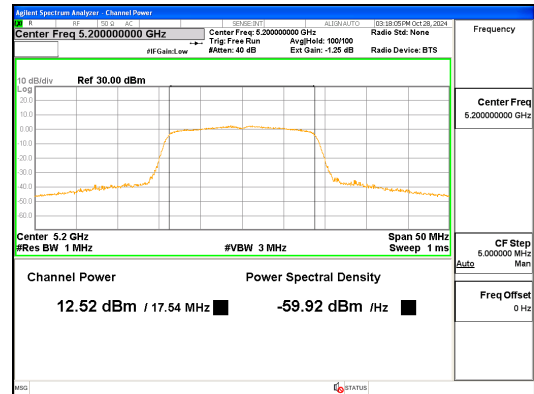
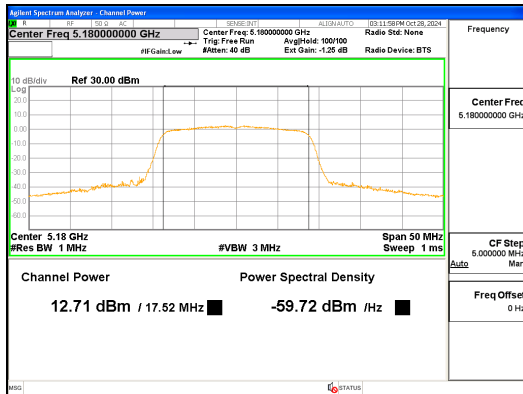
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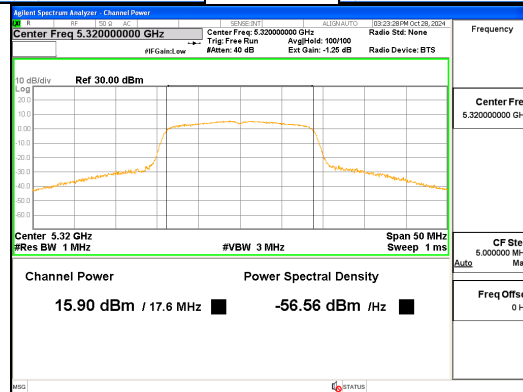
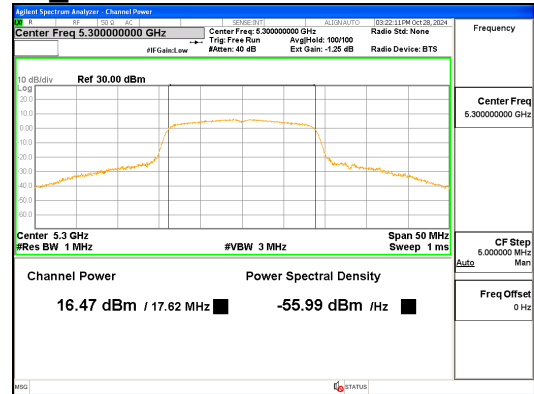
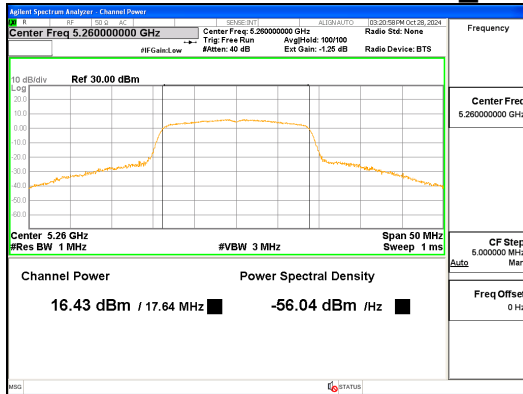
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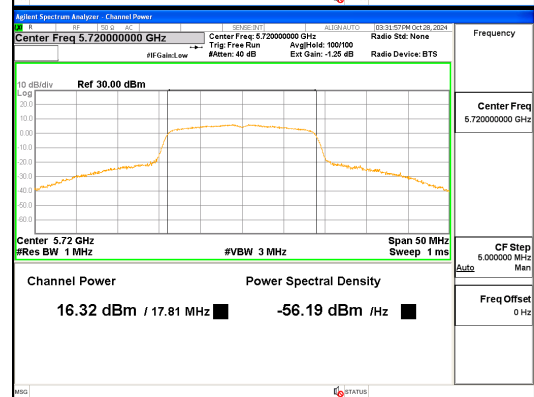
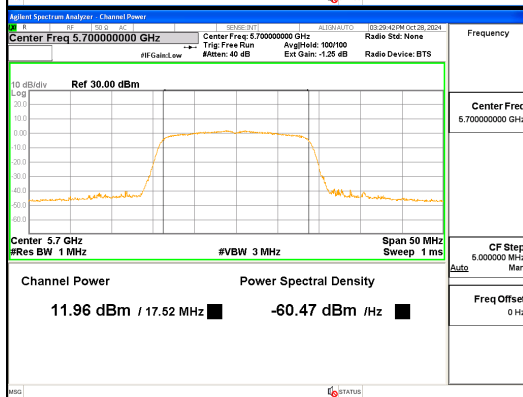
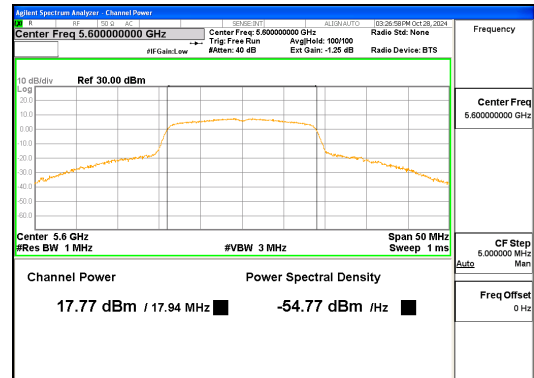
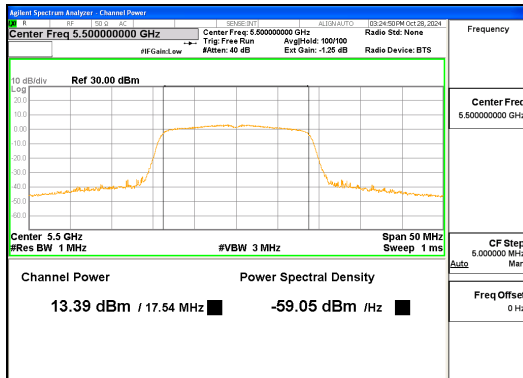
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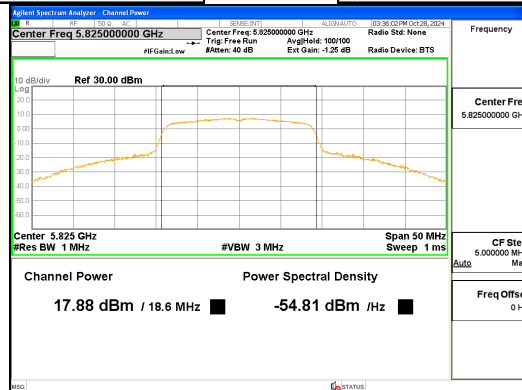
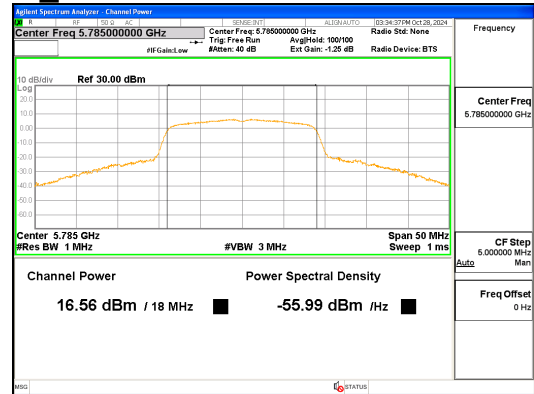
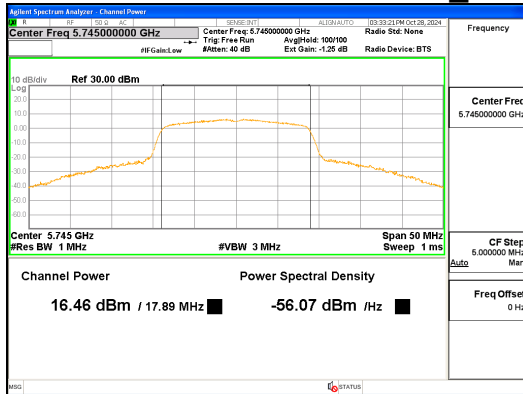
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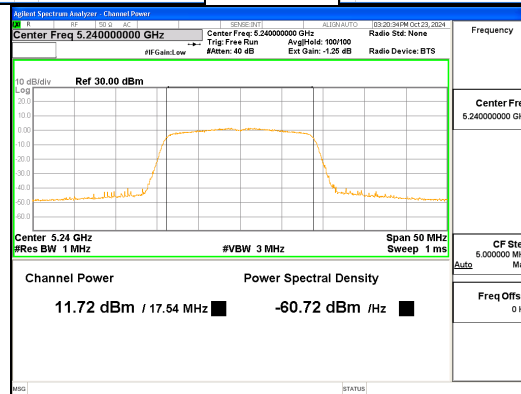
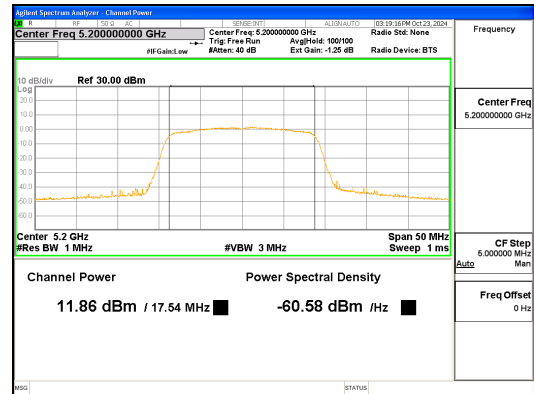
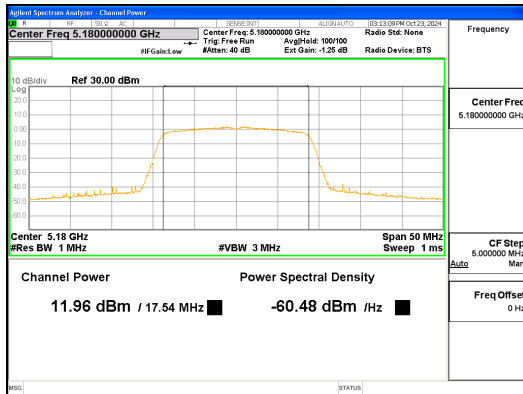
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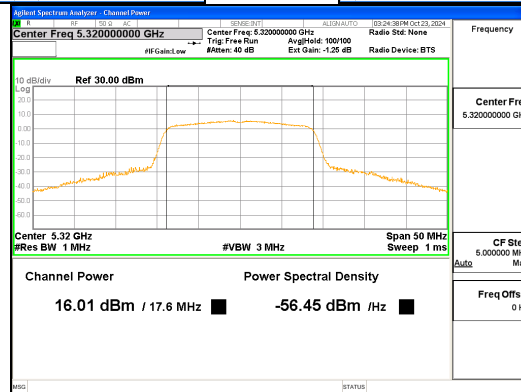
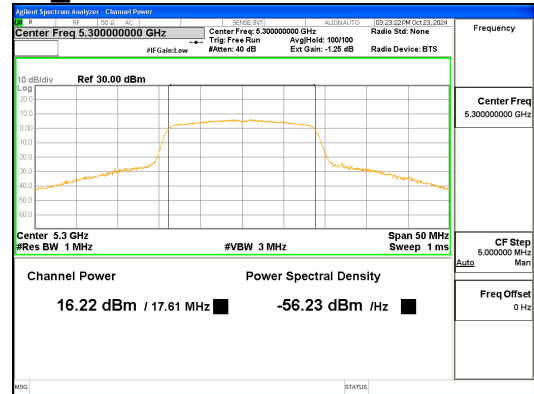
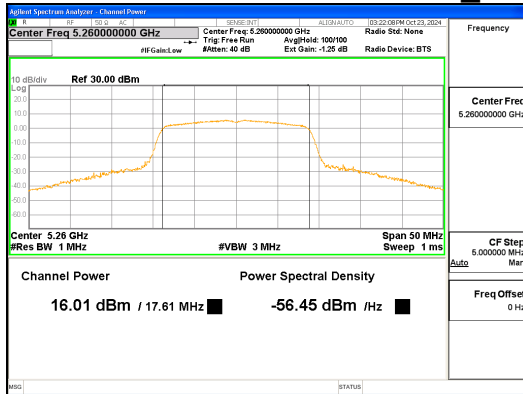
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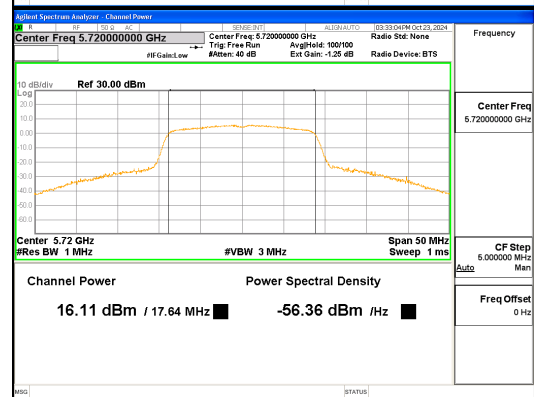
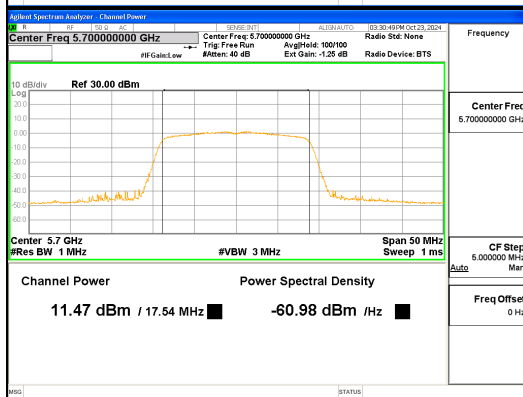
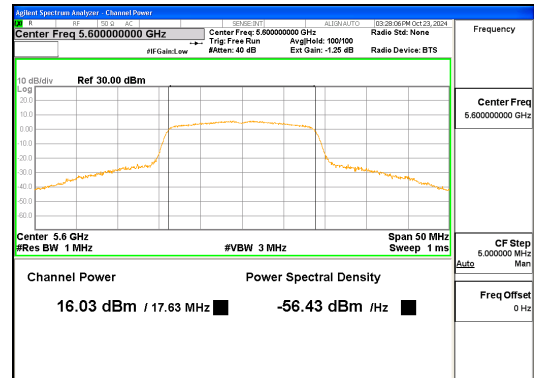
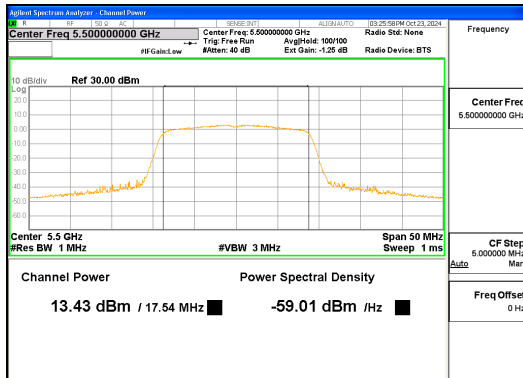
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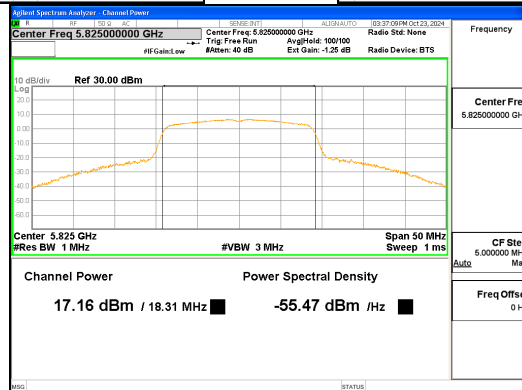
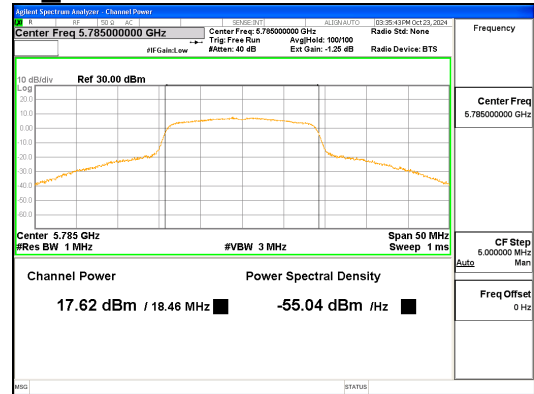
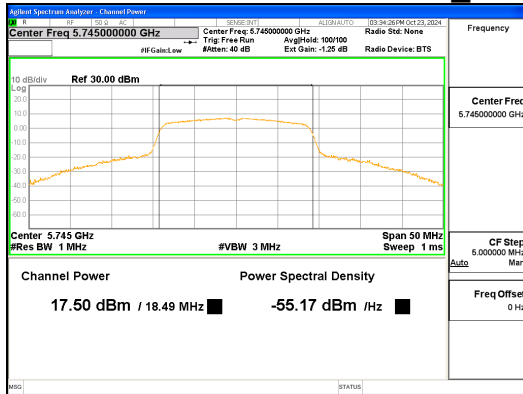
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ANT R_802.11n_HT20_UNII 2A



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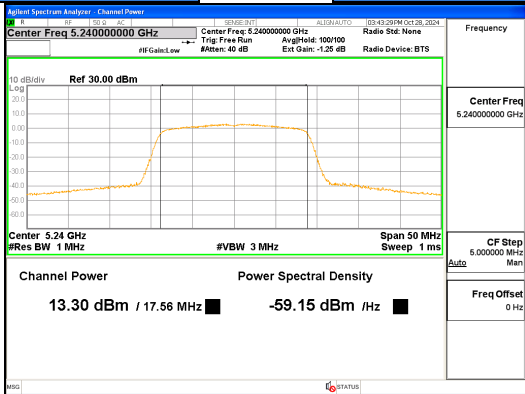
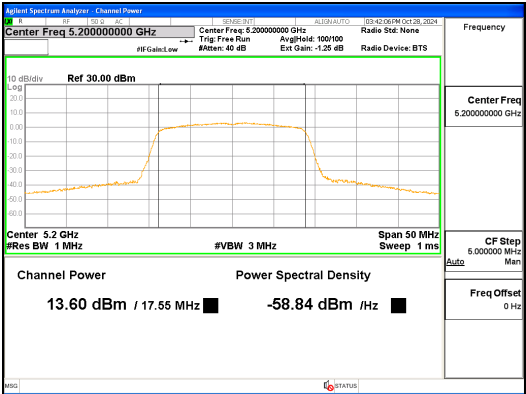
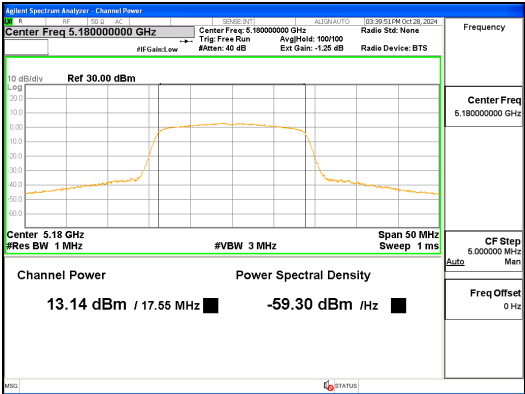


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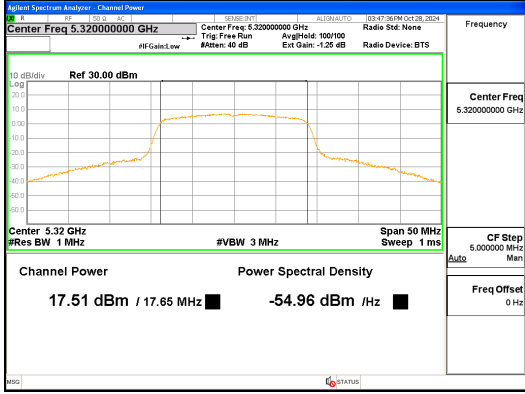
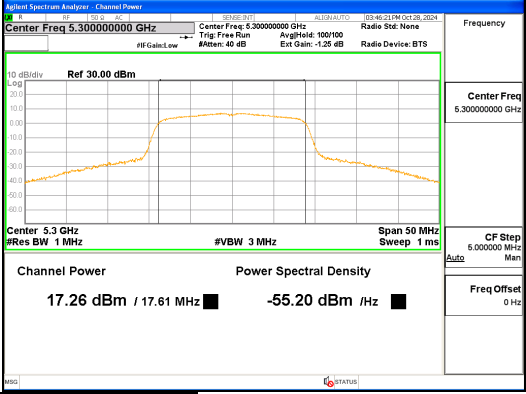
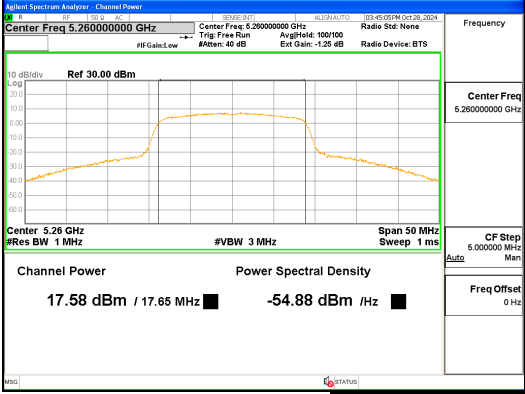


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ANT L_802.11ac_VHT20_UNII 1

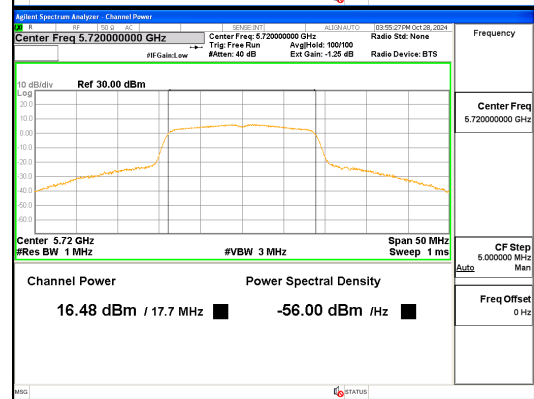
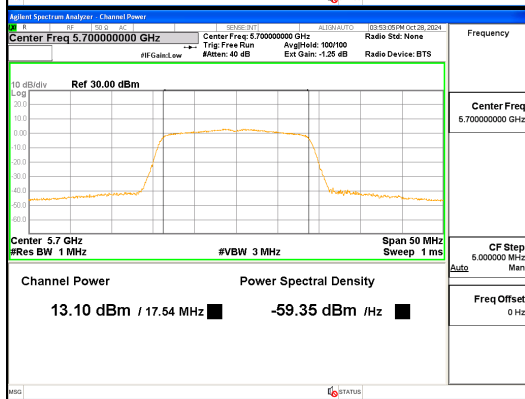
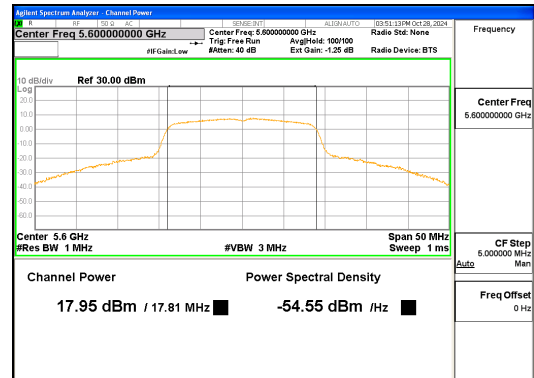
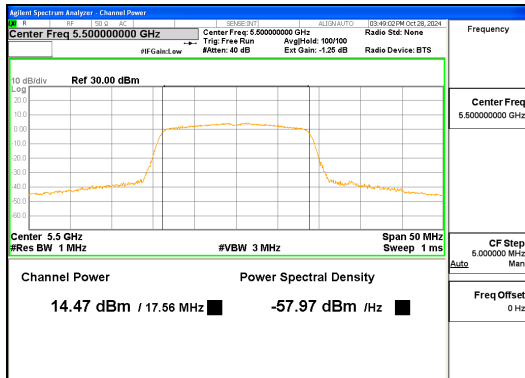


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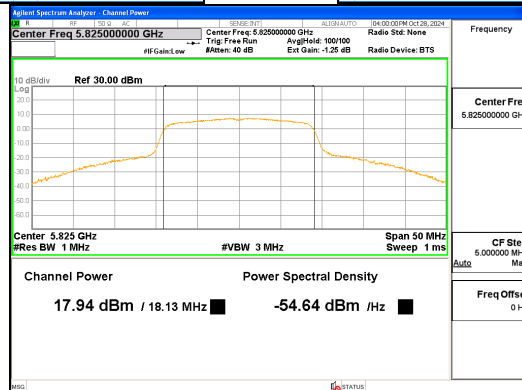
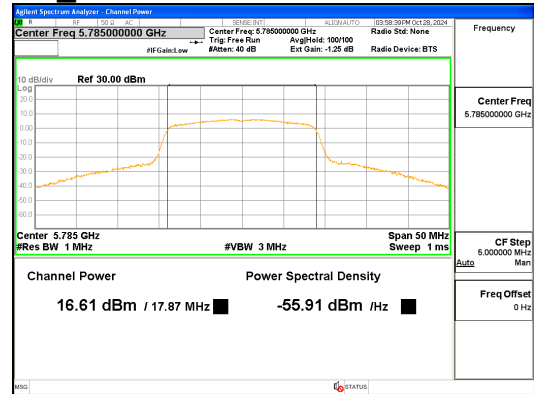
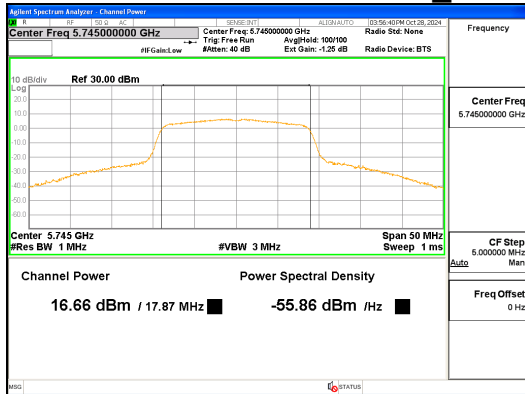


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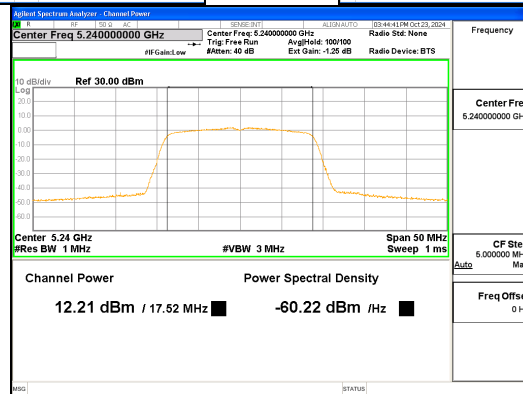
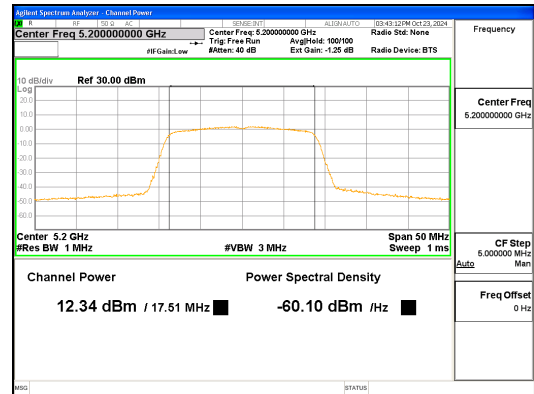
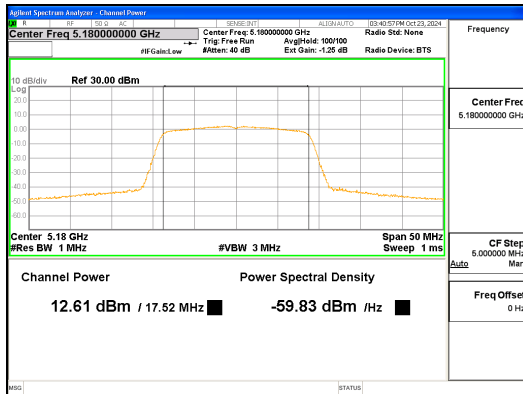
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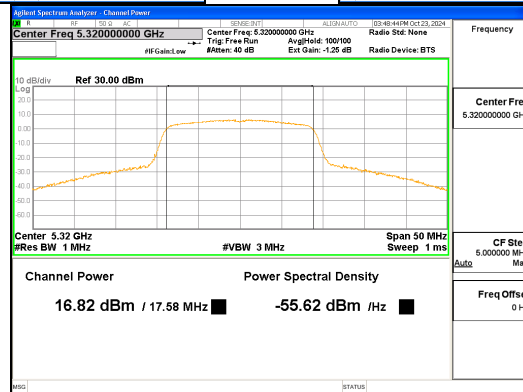
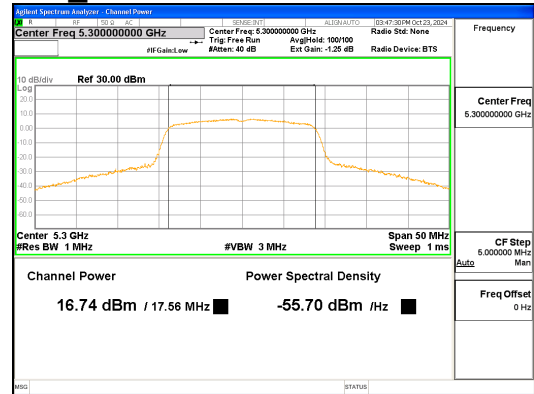
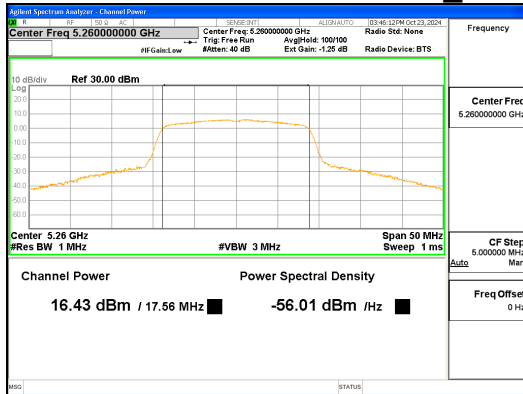
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ANT L_802.11ac_VHT20_UNII 3



ANT R_802.11ac_VHT20_UNII 1

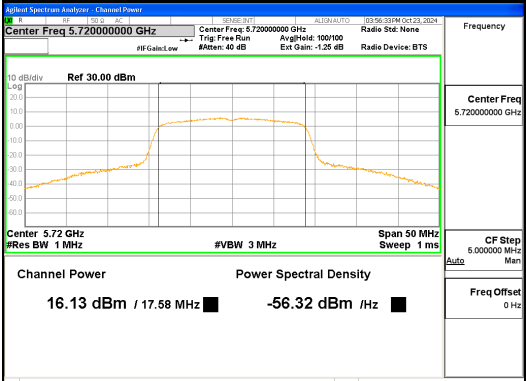
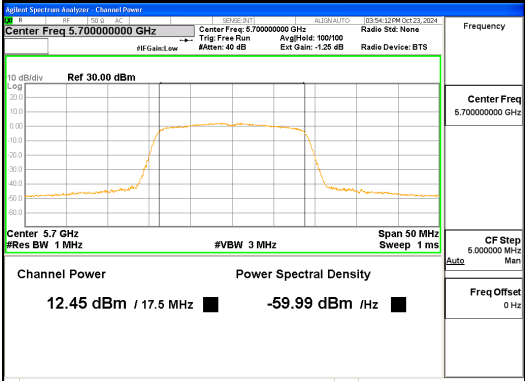
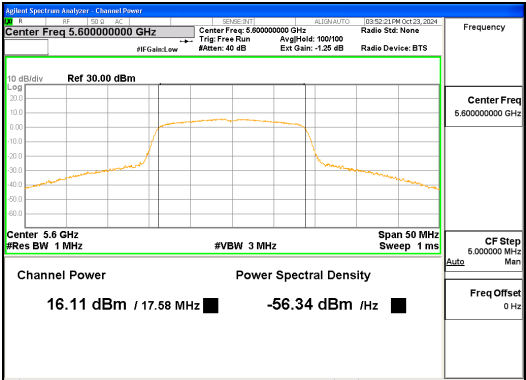
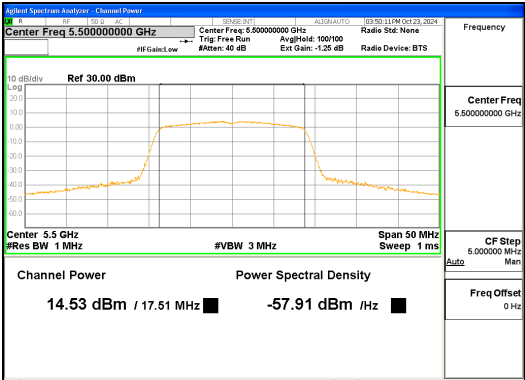


ANT R_802.11ac_VHT20_UNII 2A

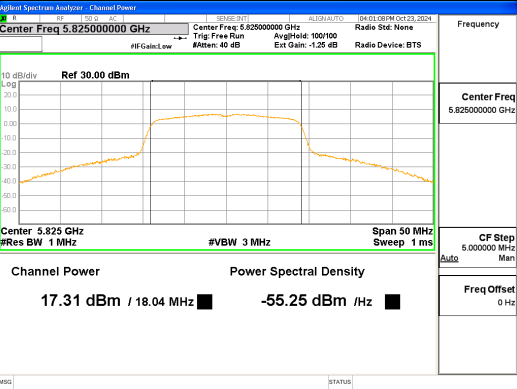
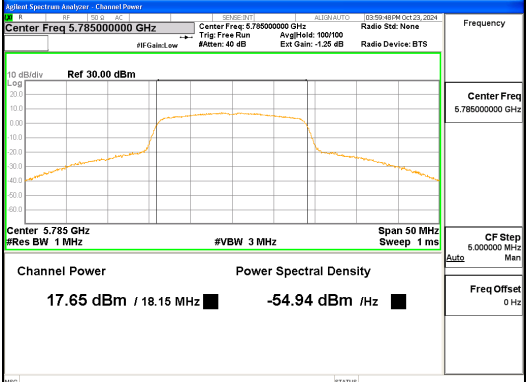
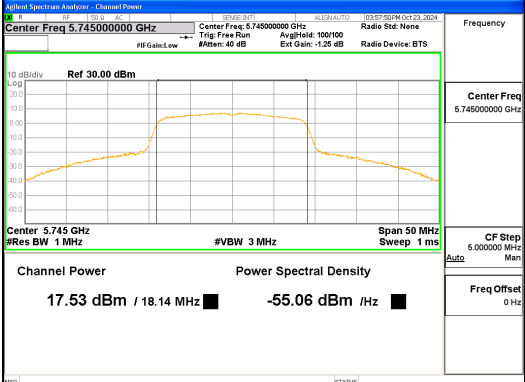


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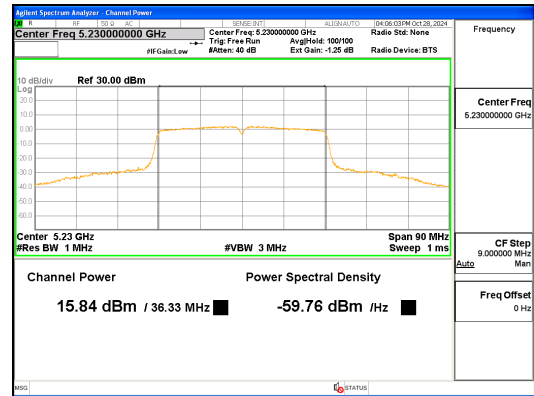
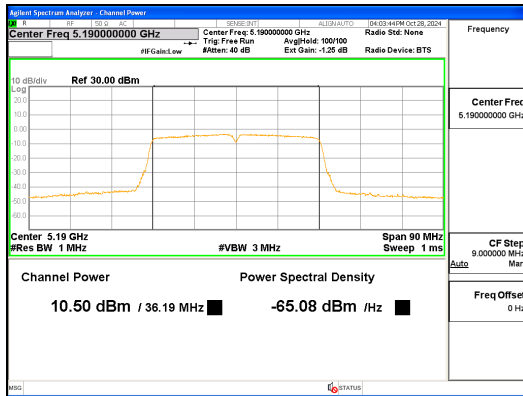
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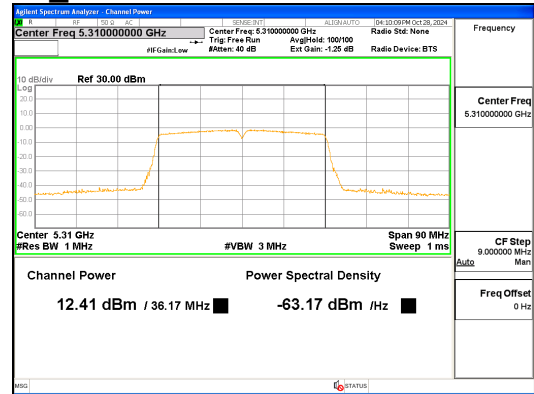
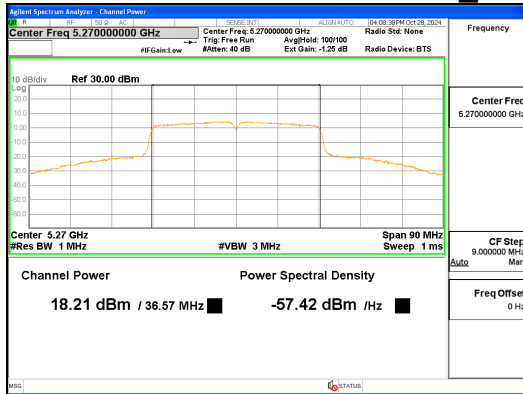
ANT R_802.11ac_VHT20_UNII 2C



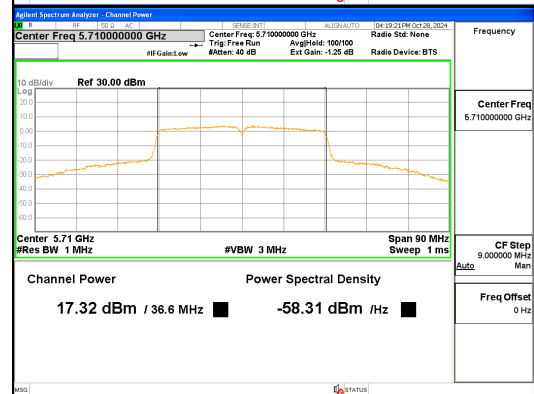
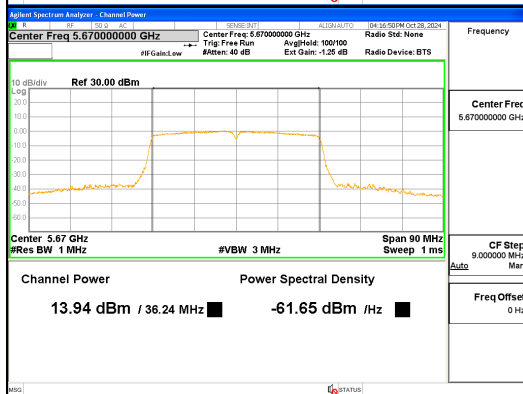
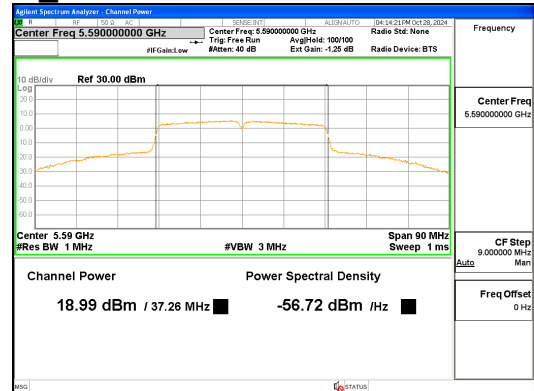
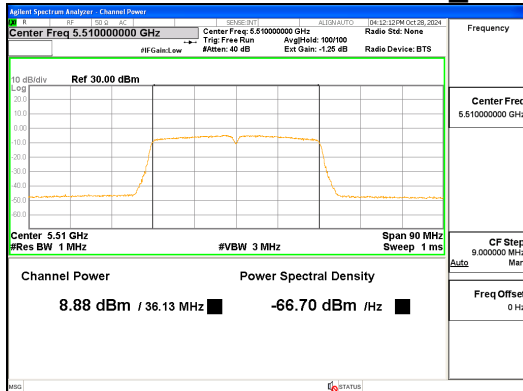
ANT R_802.11ac_VHT20_UNII 3



ANT L_802.11n_HT40_UNII 1



ANT L_802.11n_HT40_UNII 2A

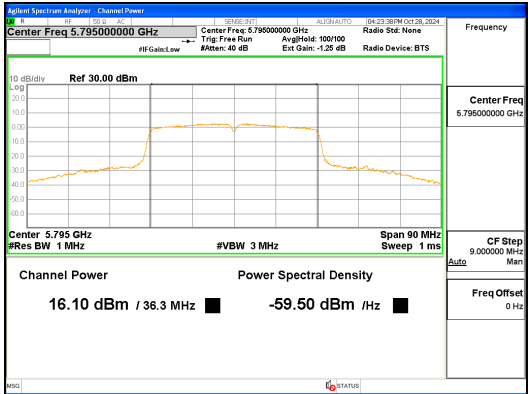
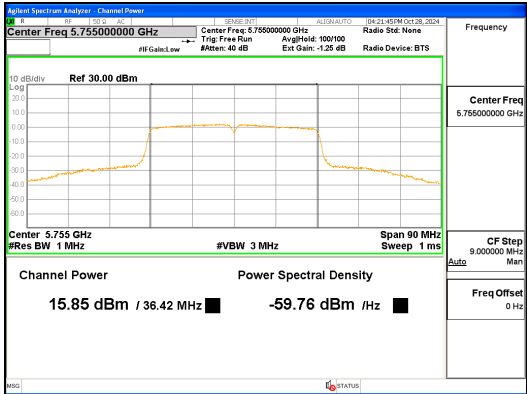


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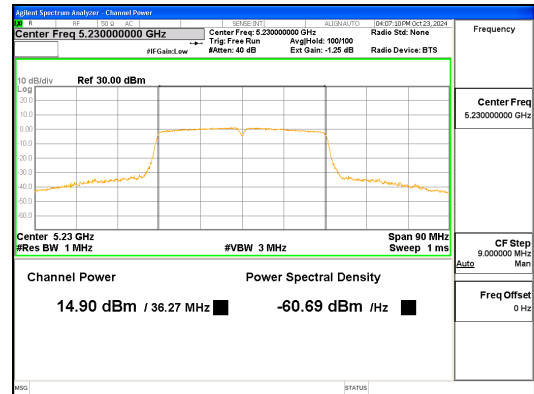
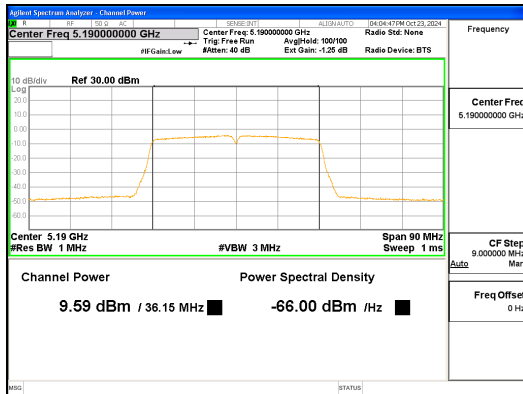


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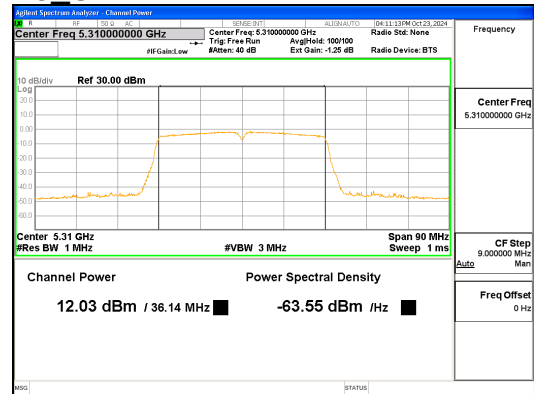
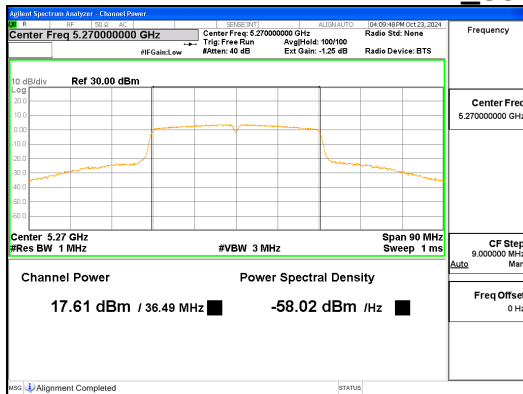
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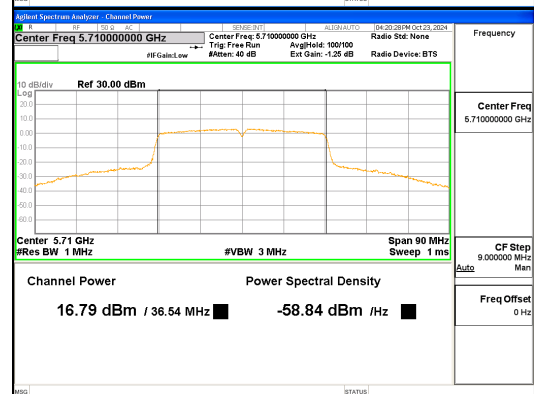
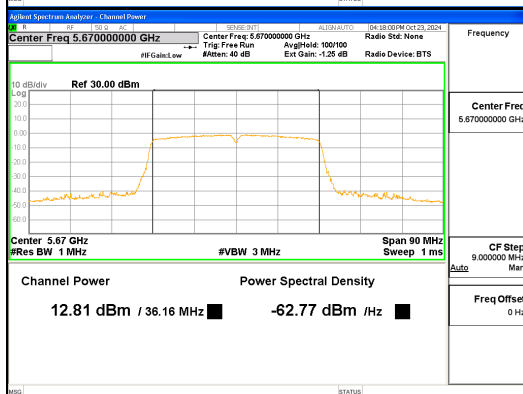
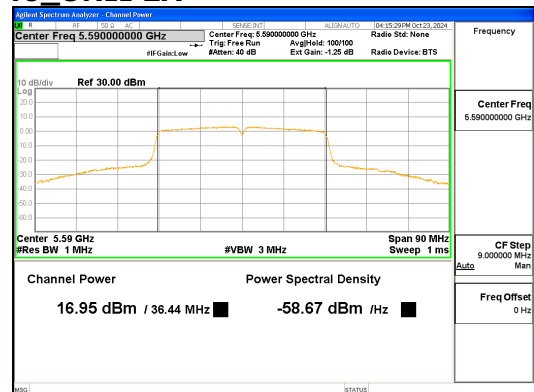
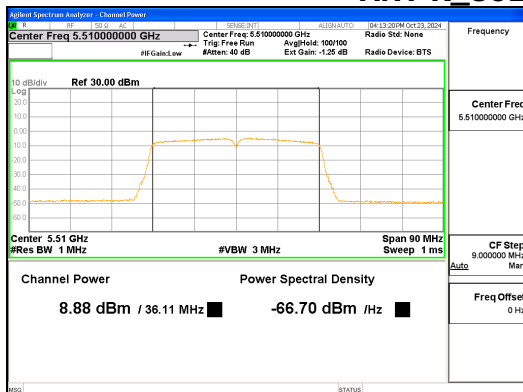
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ANT R_802.11n_HT40_UNII 1



ANT R_802.11n_HT40_UNII 2A

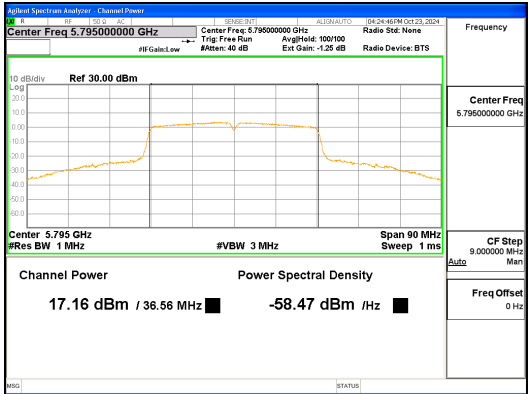
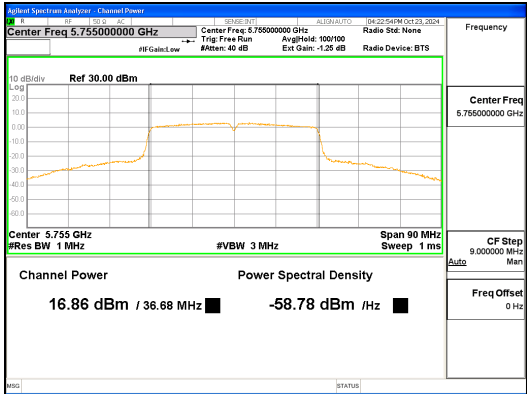


ANT R_802.11n_HT40_UNII 2C

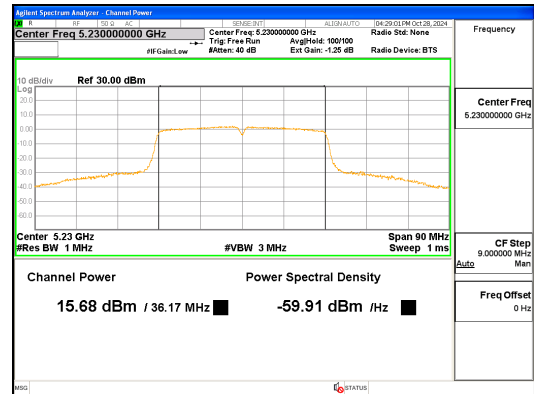
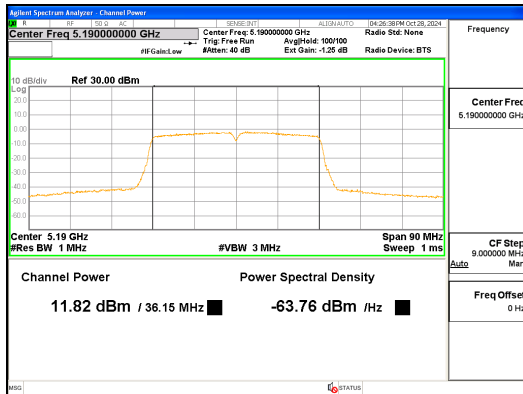


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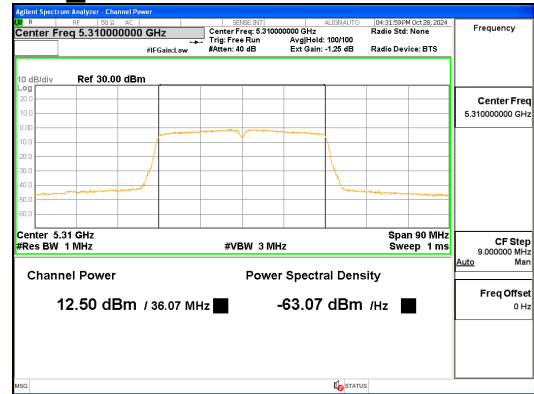
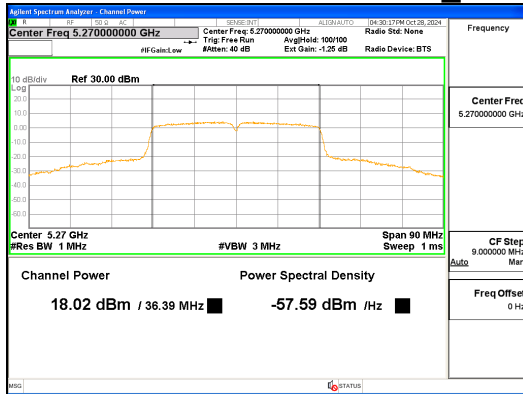
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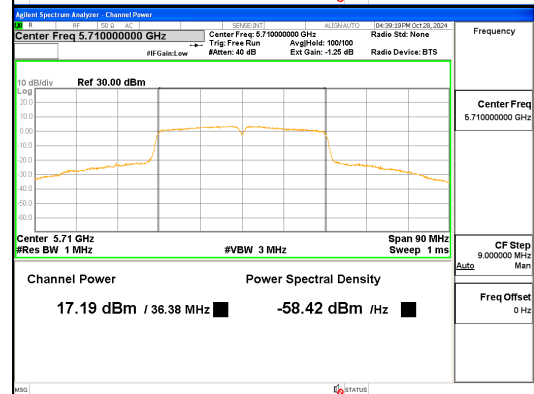
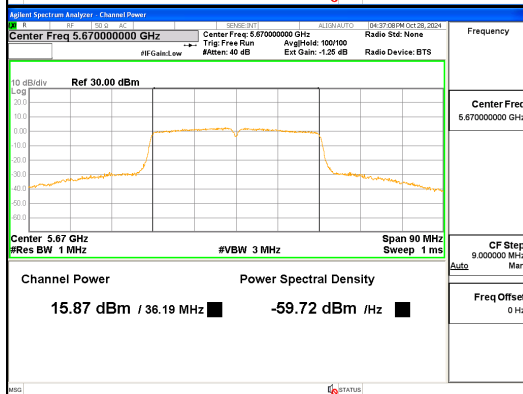
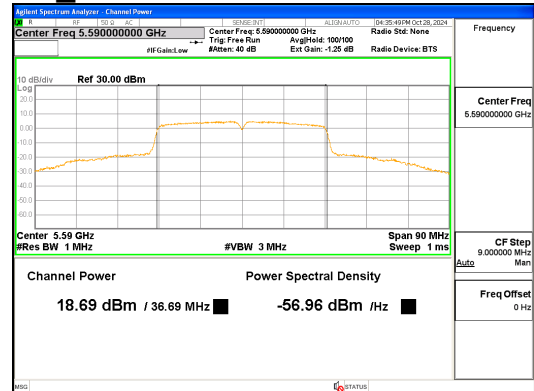
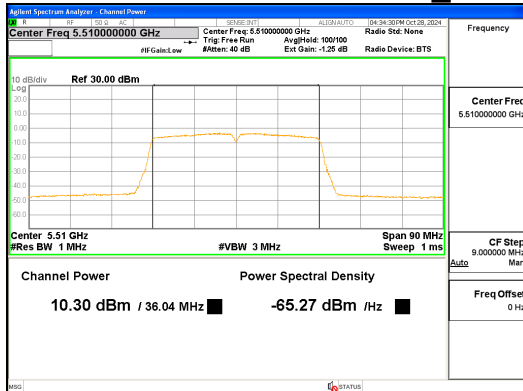
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ANT L_802.11ac_VHT40_UNII 1



ANT L_802.11ac_VHT40_UNII 2A

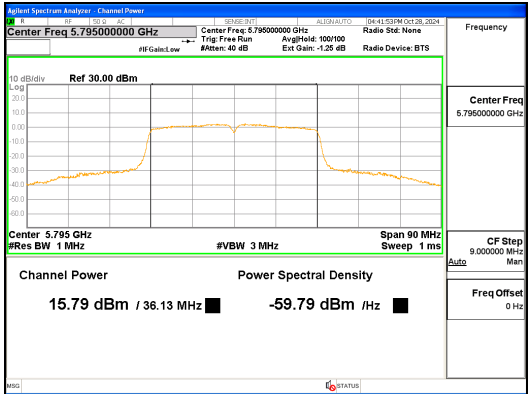
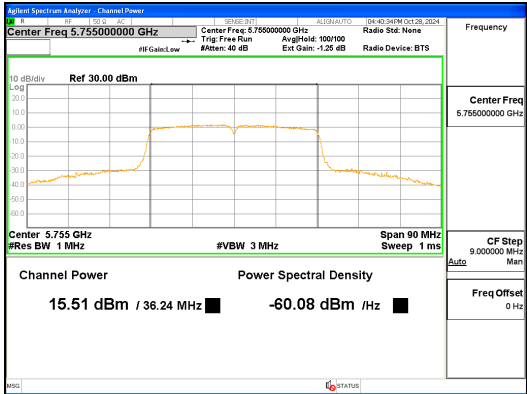


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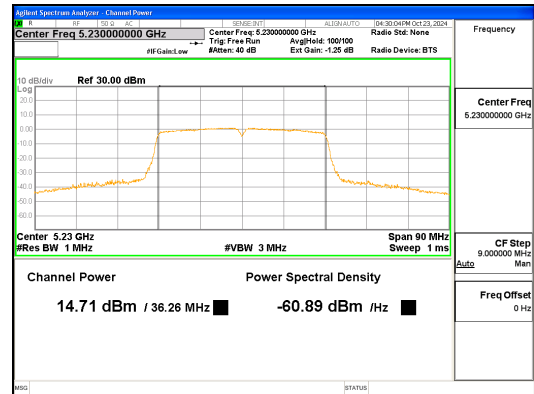
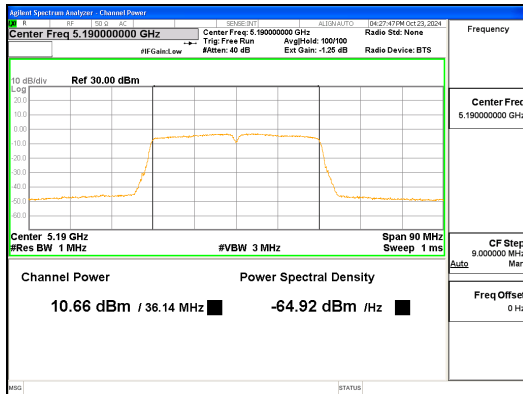


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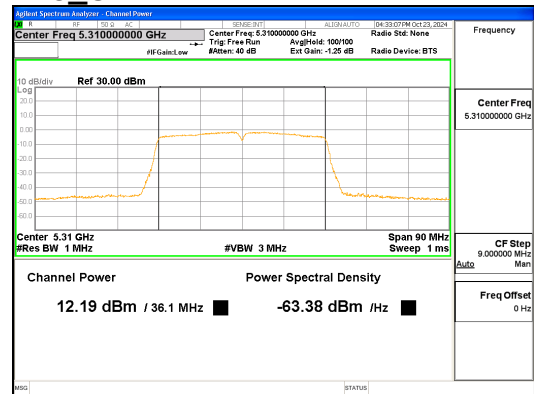
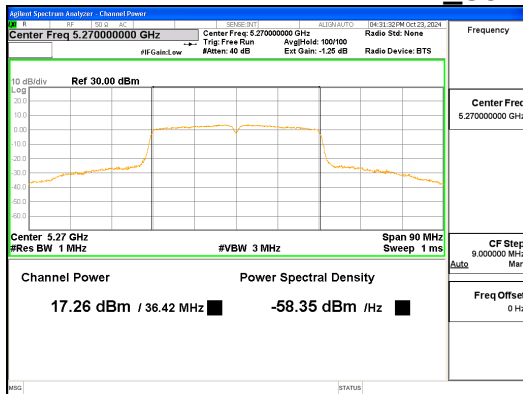
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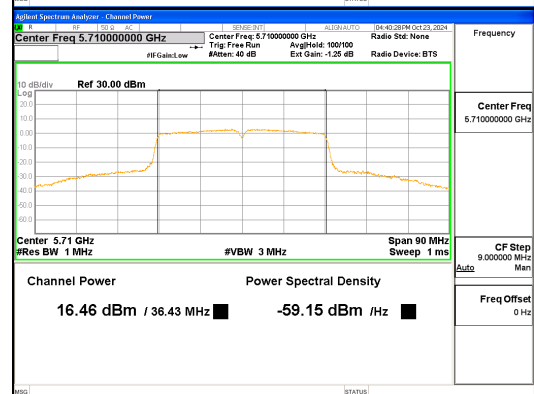
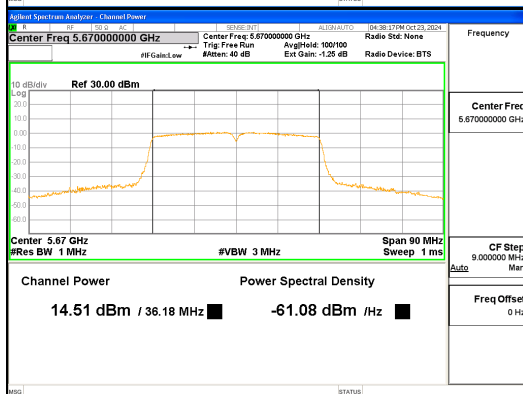
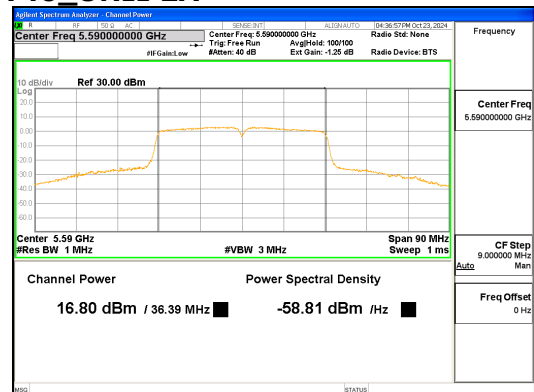
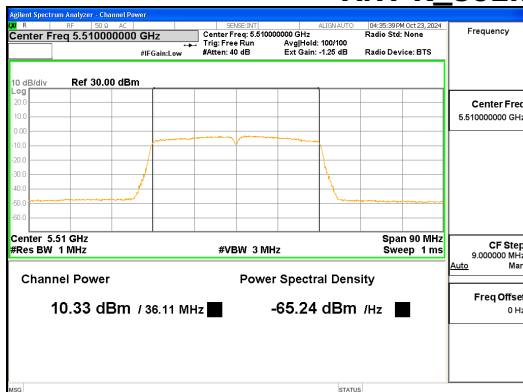
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ANT R_802.11ac_VHT40_UNII 1



ANT R_802.11ac_VHT40_UNII 2A

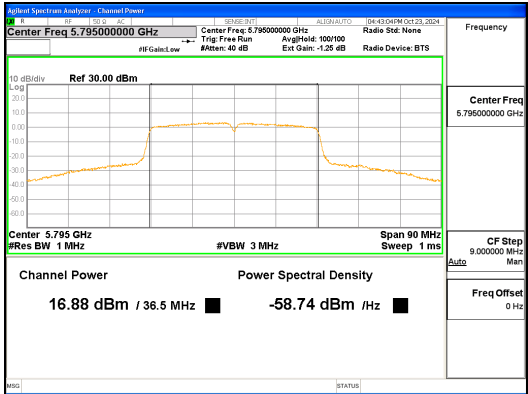
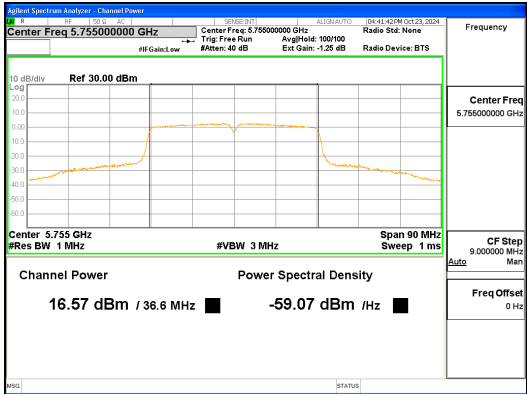


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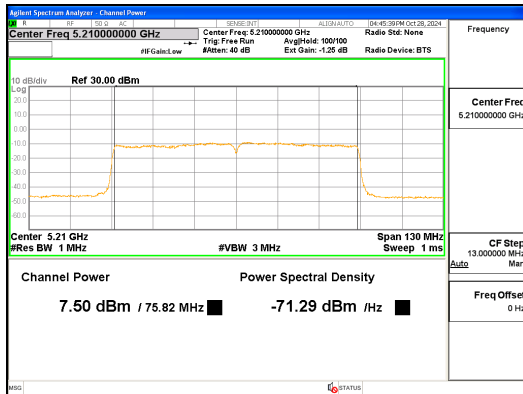


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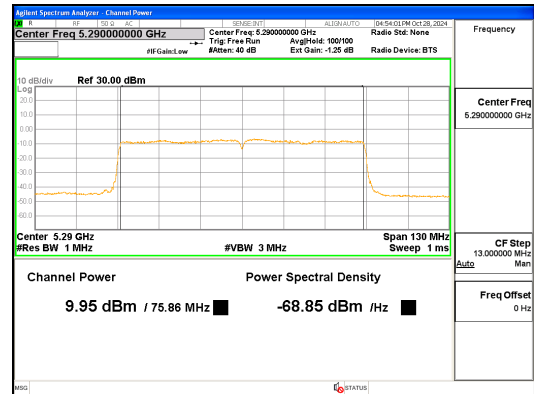
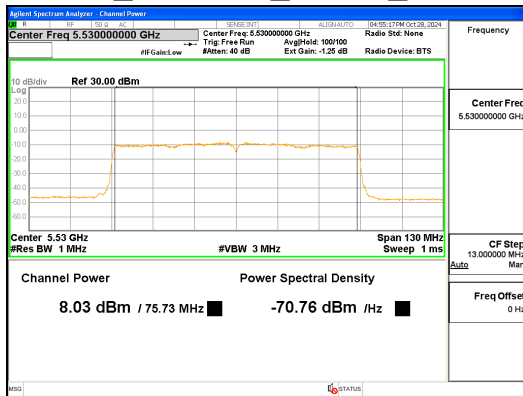
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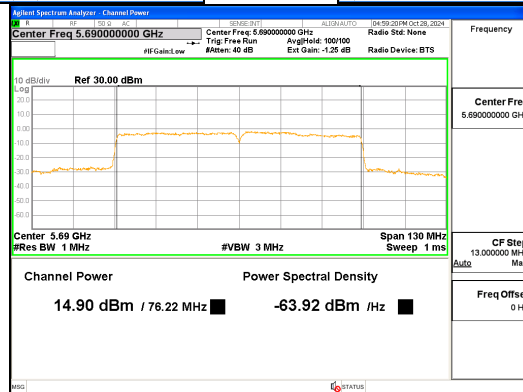
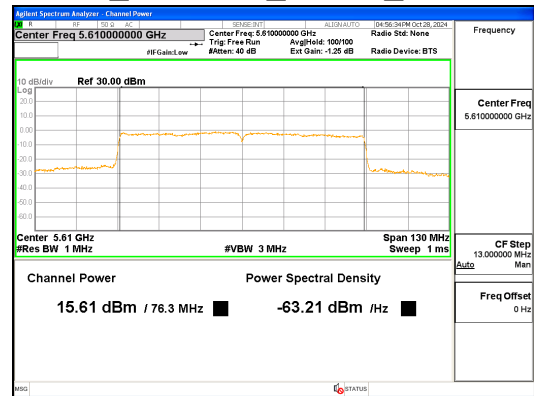
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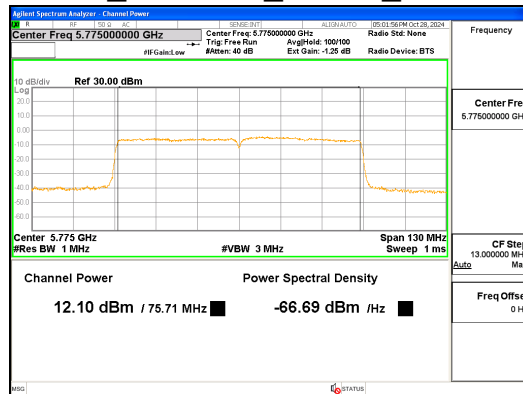
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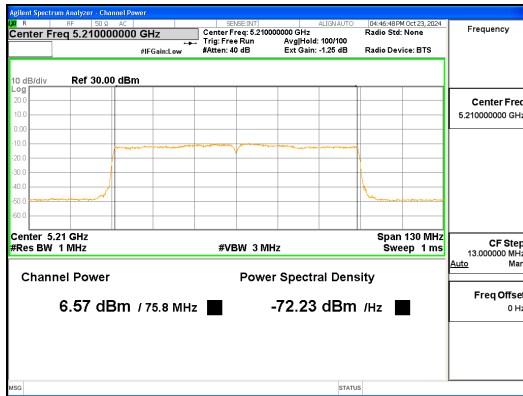
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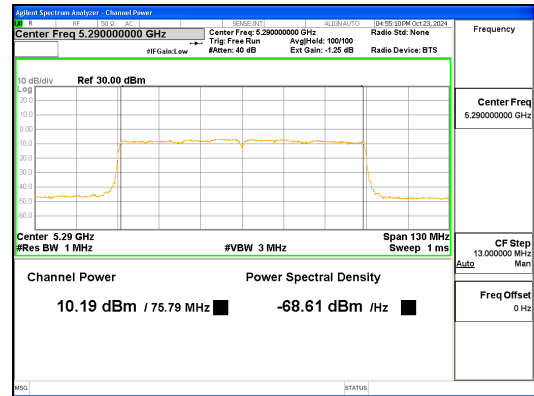
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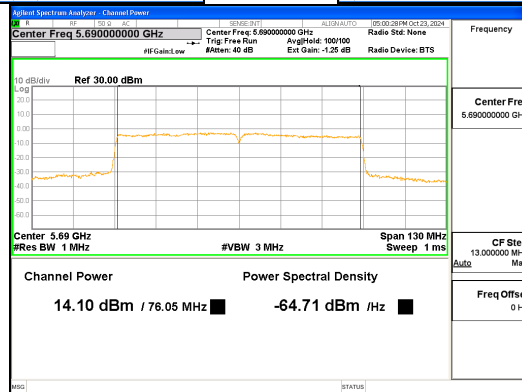
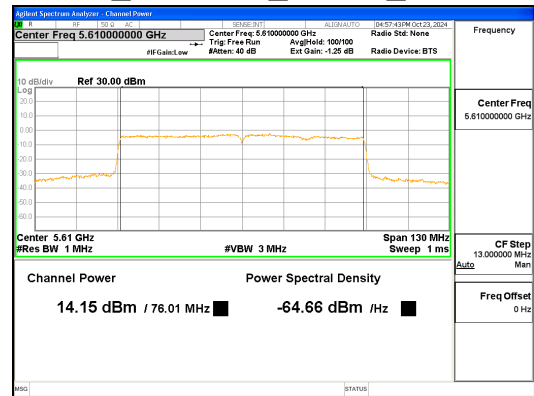
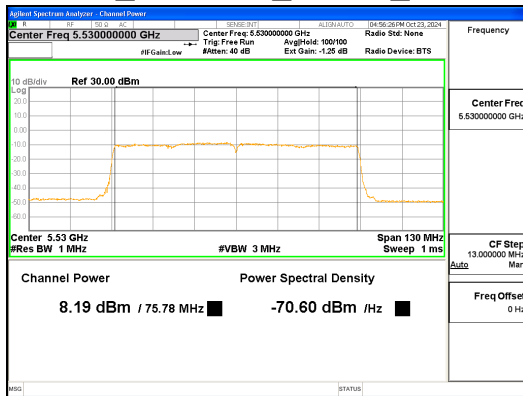
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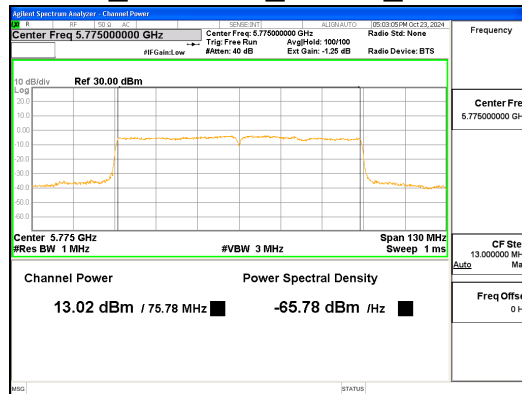
ANT R_802.11ac_VHT80_UNII 1



ANT R_802.11ac_VHT80_UNII 2A



ANT R_802.11ac_VHT80_UNII 2C



ANT R_802.11ac_VHT80_UNII 3