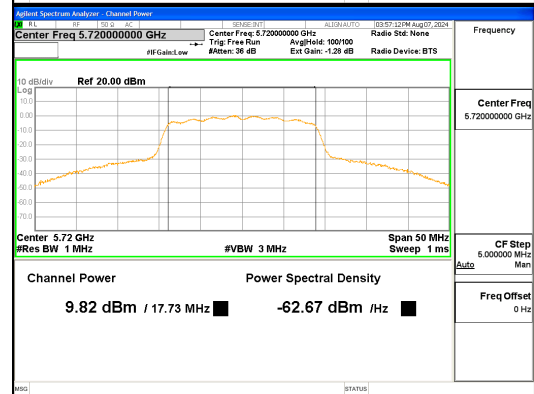
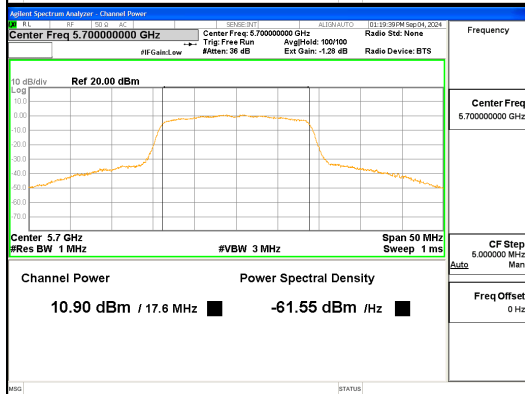
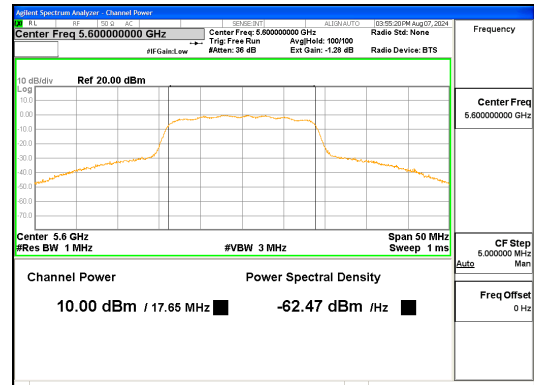
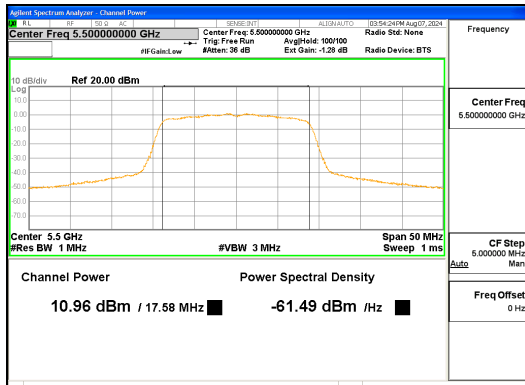


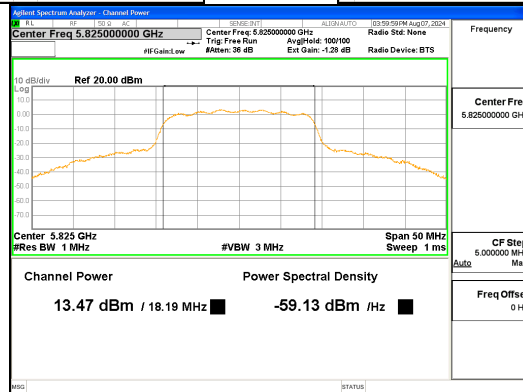
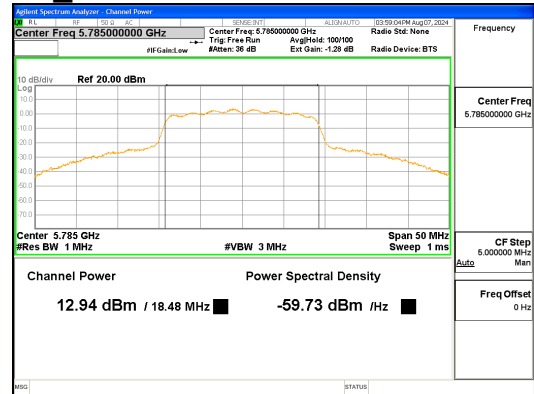
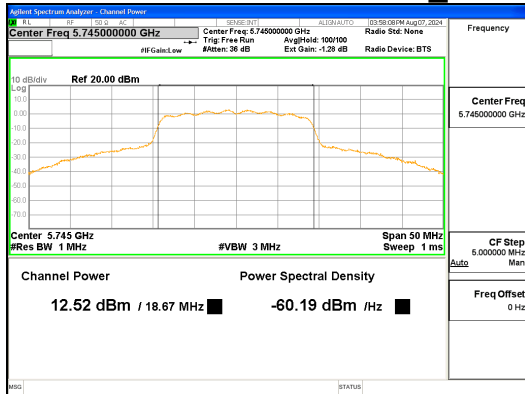


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ANT1_802.11ac_VHT20_UNII 2C

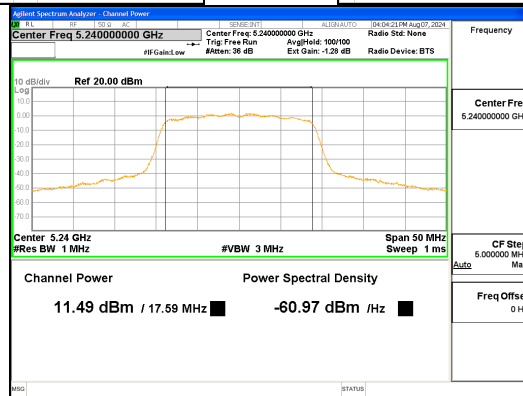
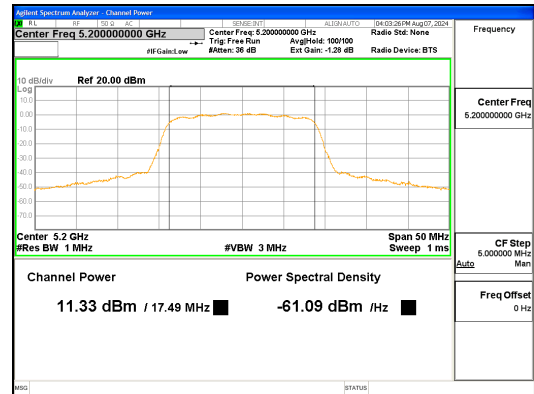
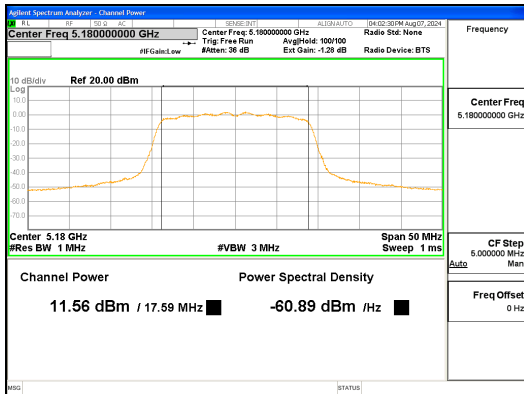


ANT1_802.11ac_VHT20_UNII 3

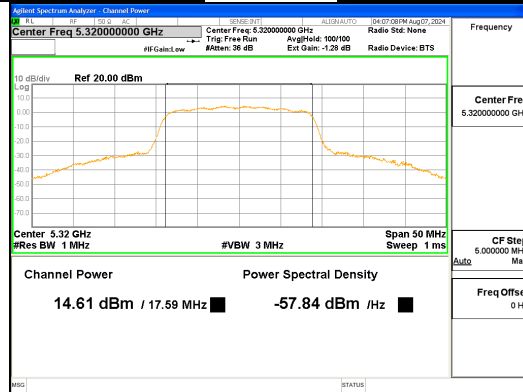
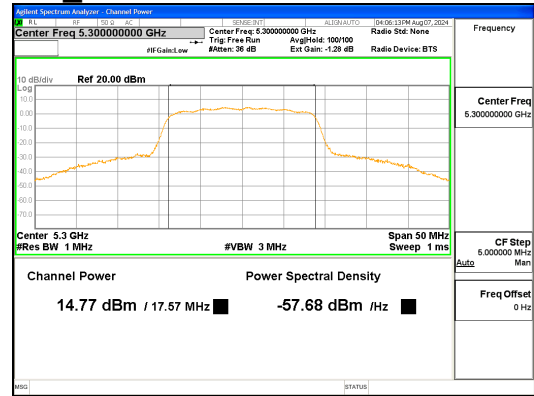
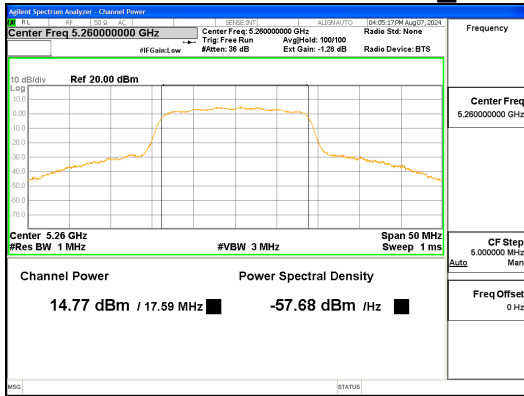


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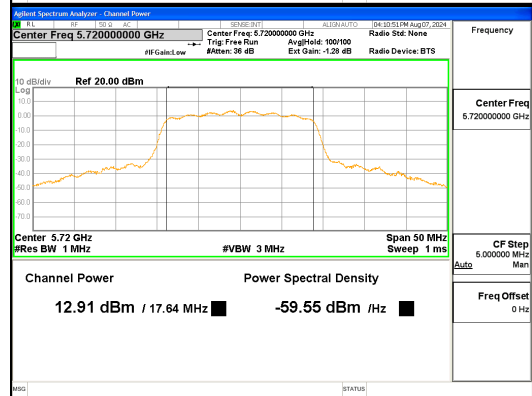
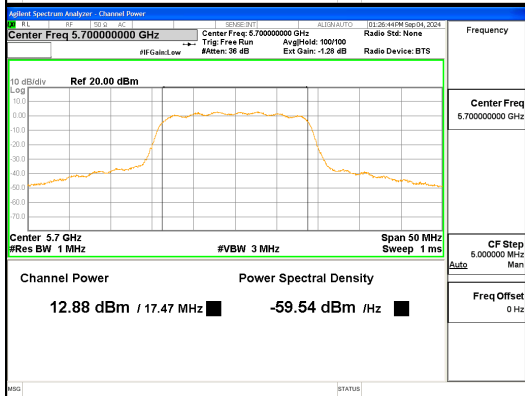
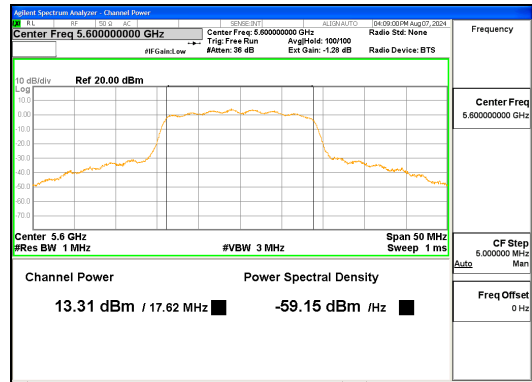
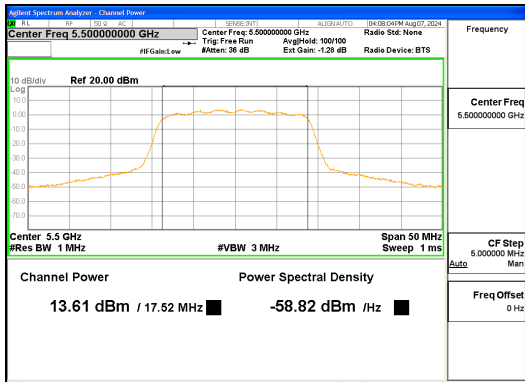


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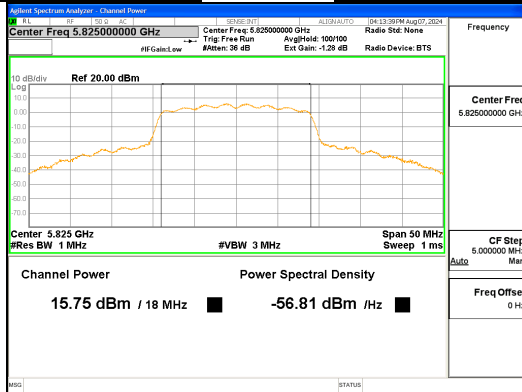
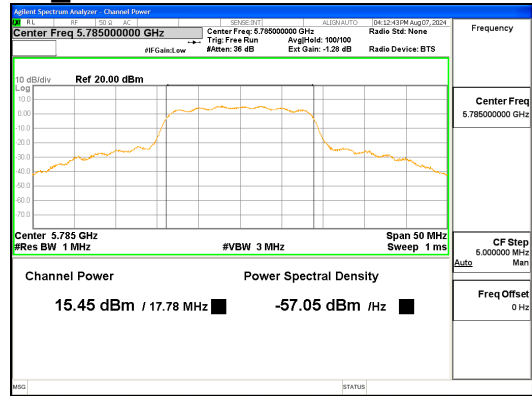
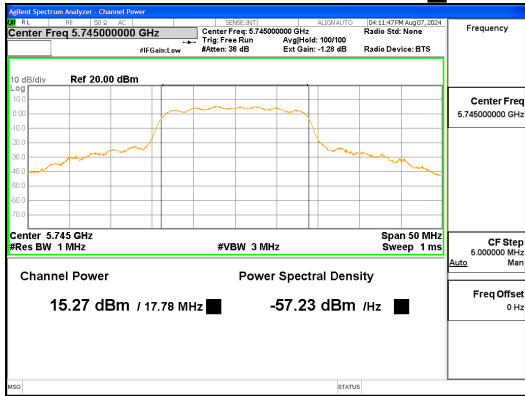


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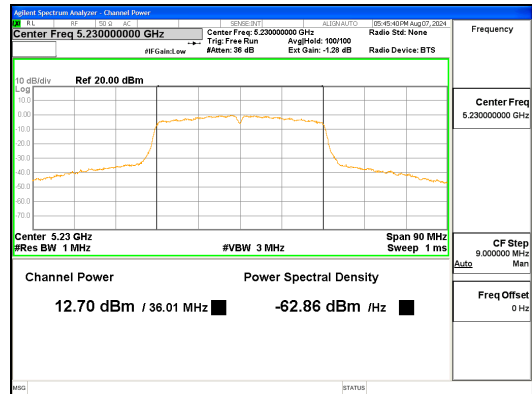
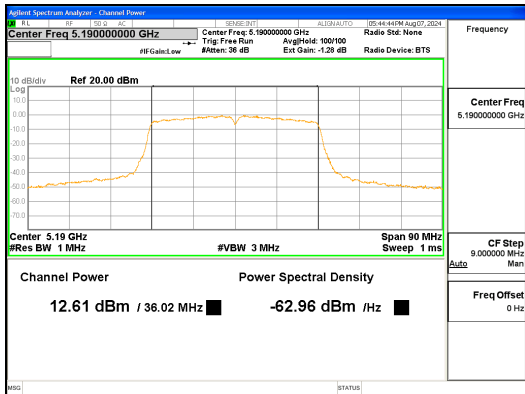
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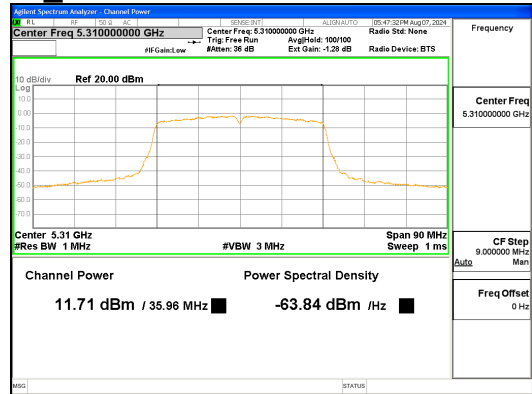
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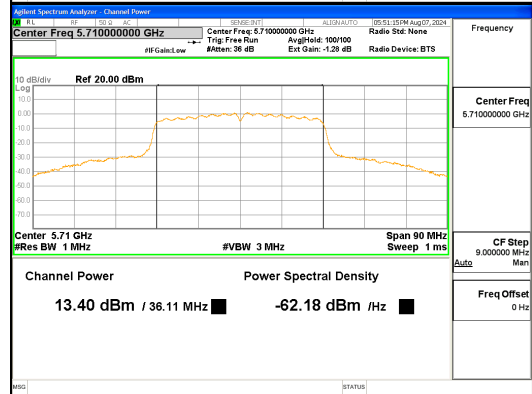
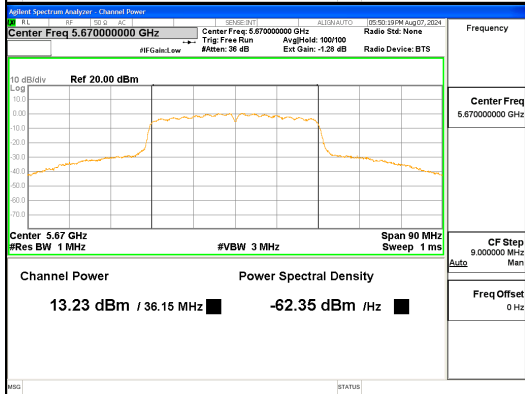
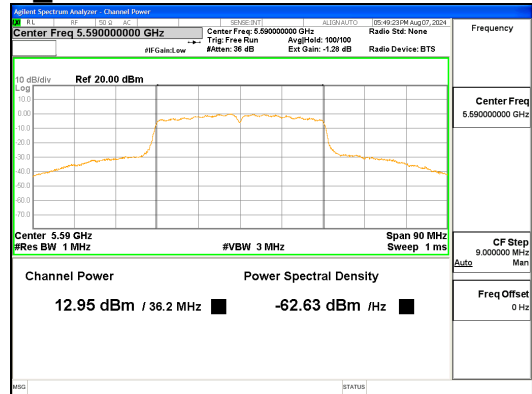
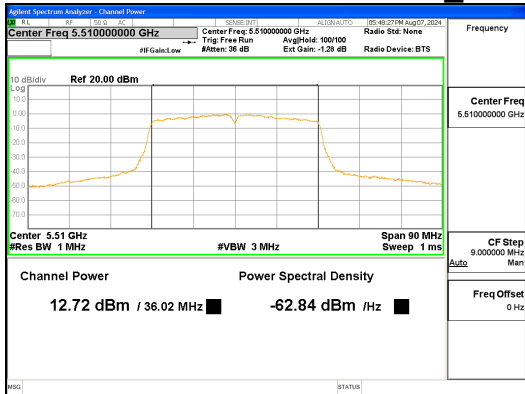
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ANT1_802.11n_HT40_UNII 2A

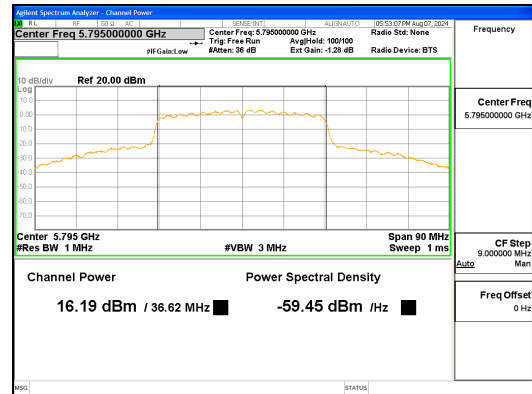
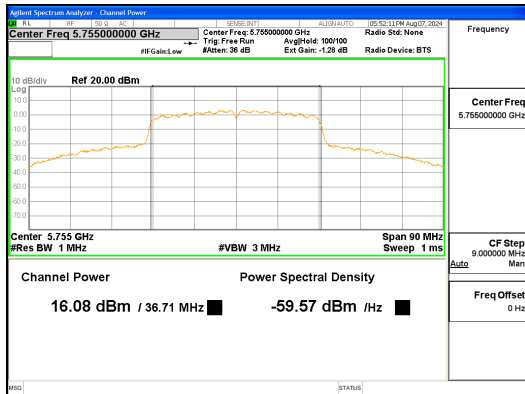


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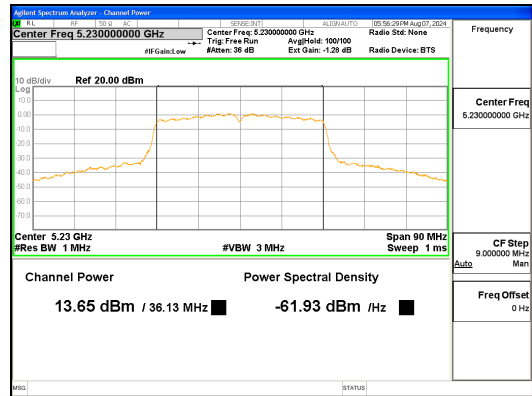
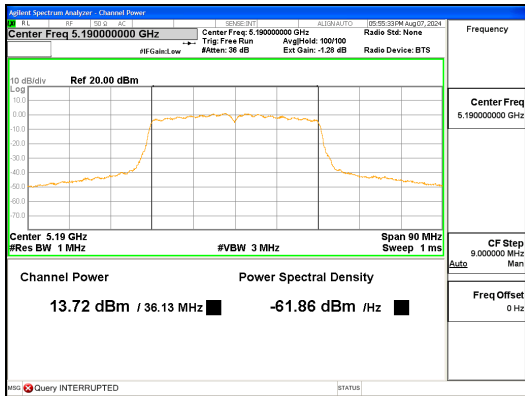


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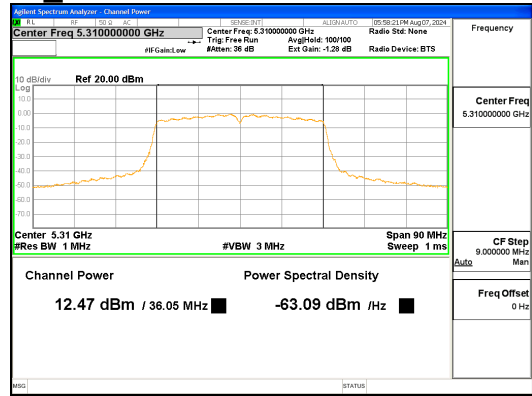
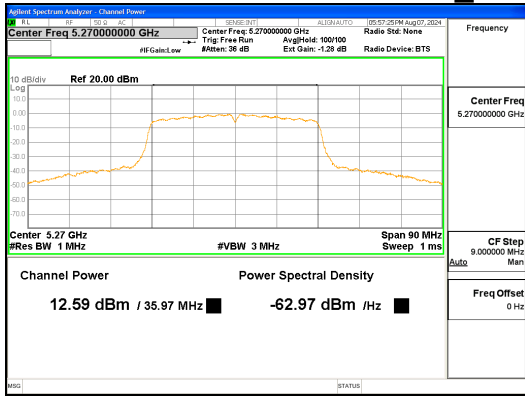
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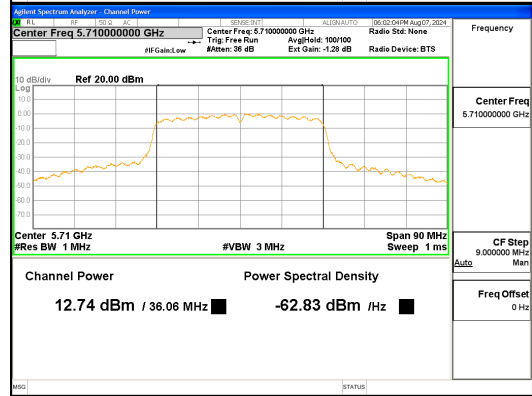
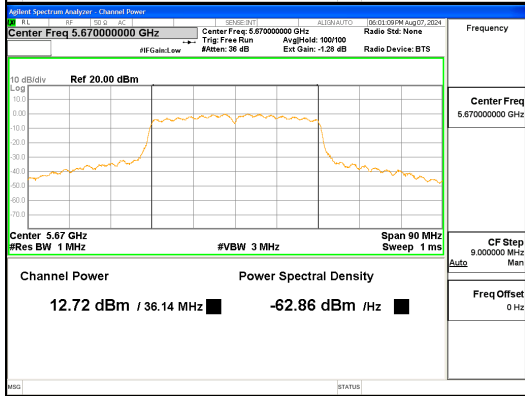
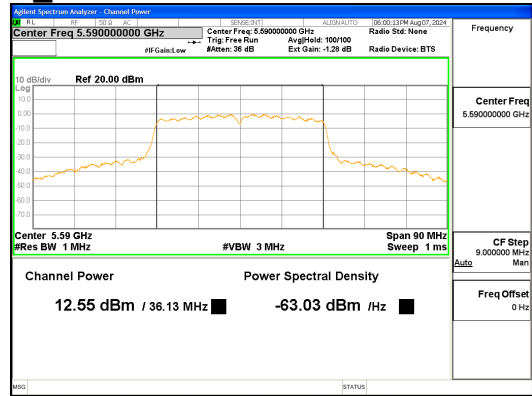
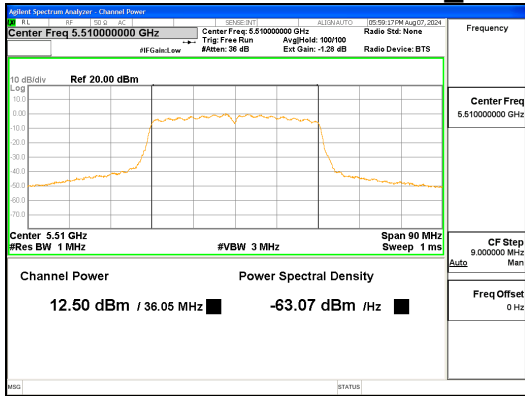
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ANT2_802.11n_HT40_UNII 1



ANT2_802.11n_HT40_UNII 2A

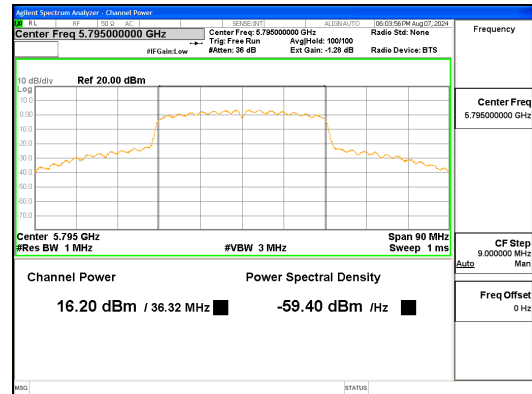
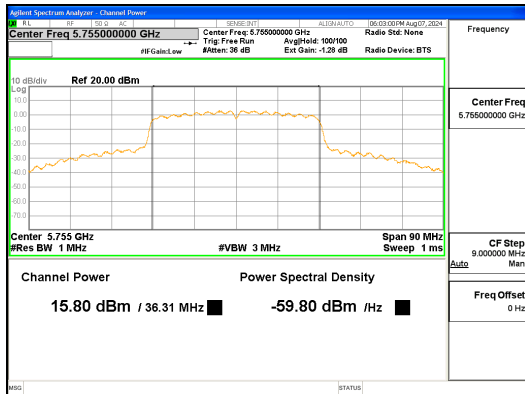


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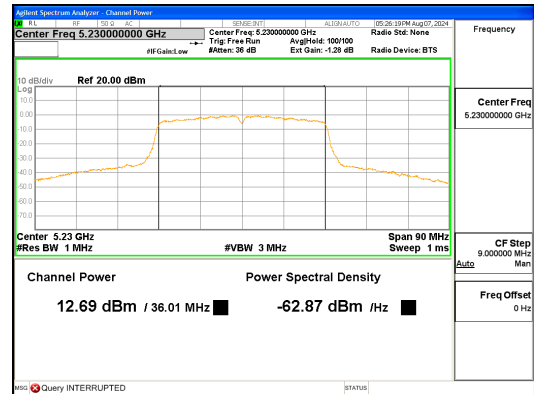
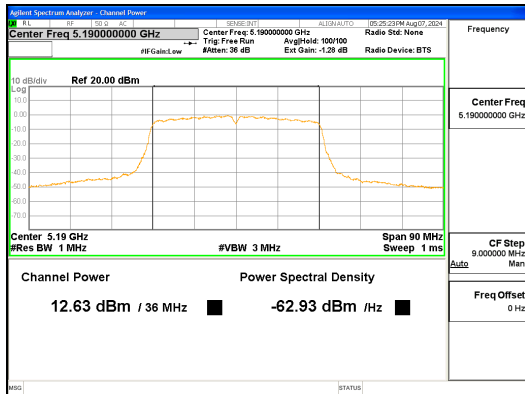


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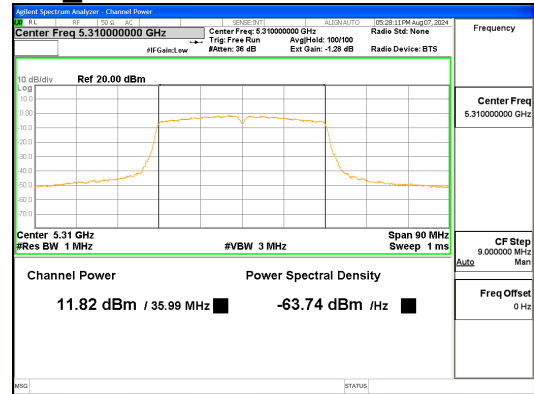
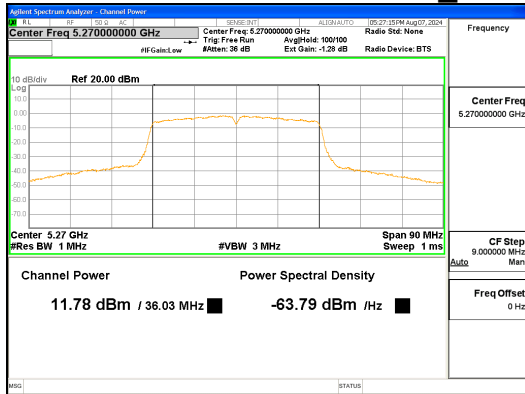
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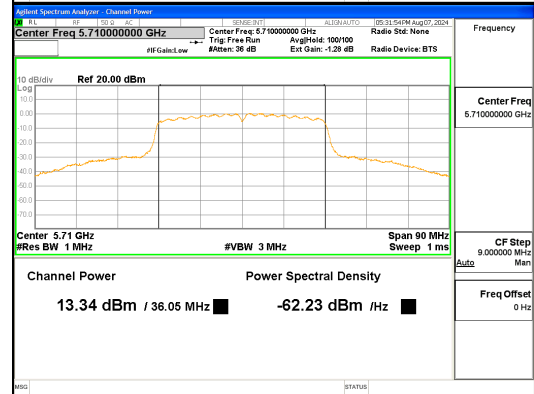
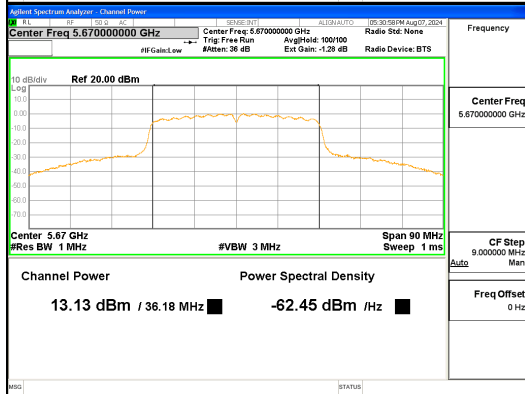
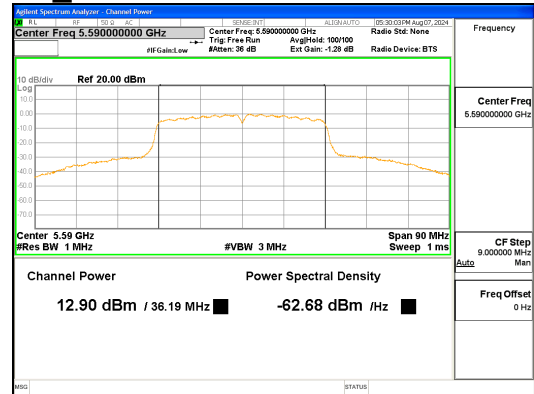
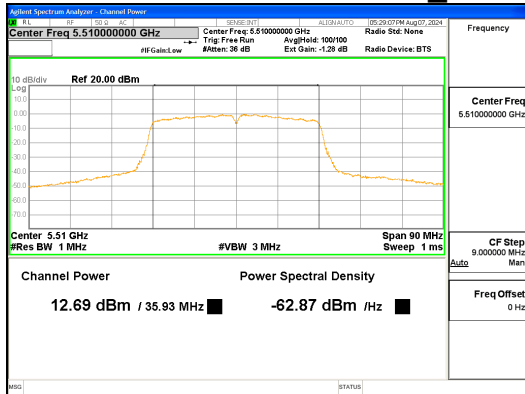
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ANT1_802.11ac_VHT40_UNII 2A

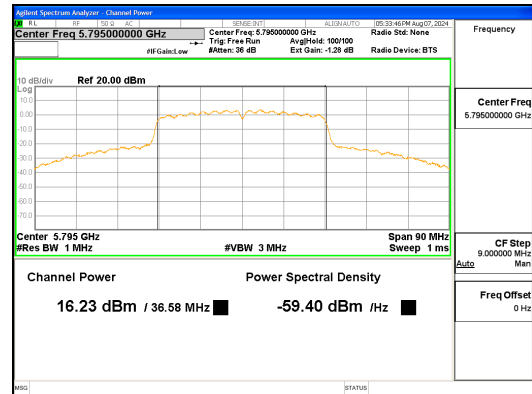
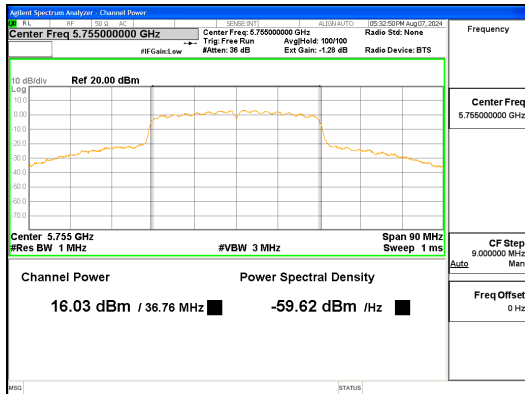


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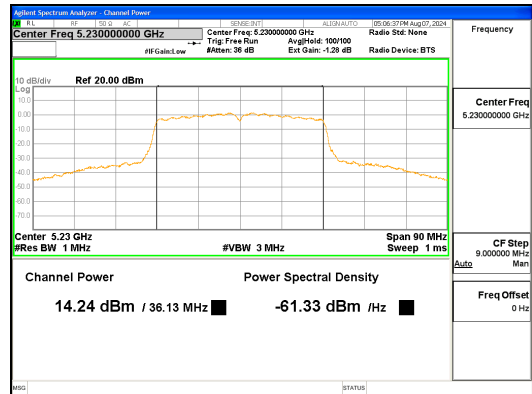
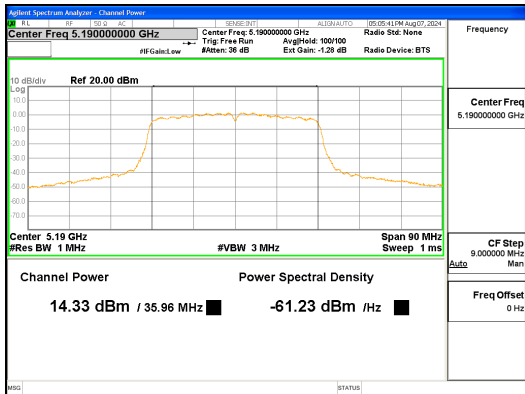


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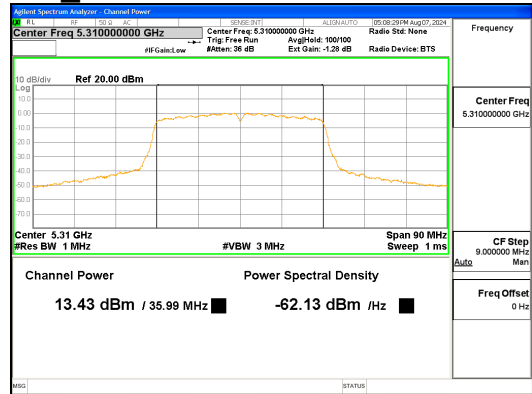
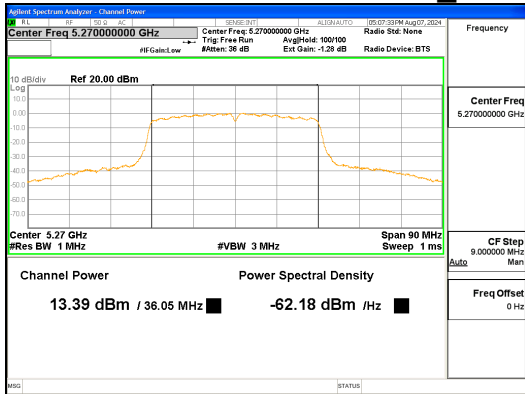
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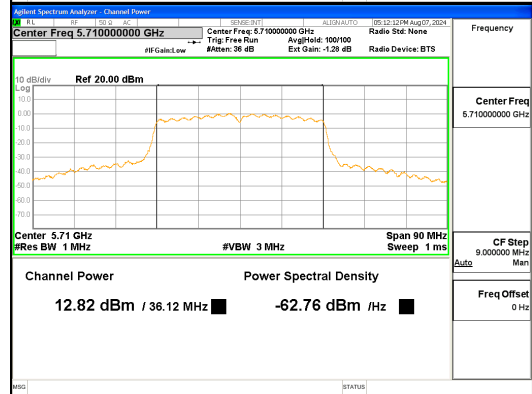
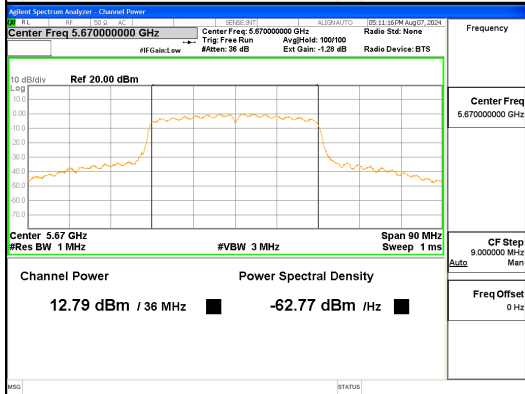
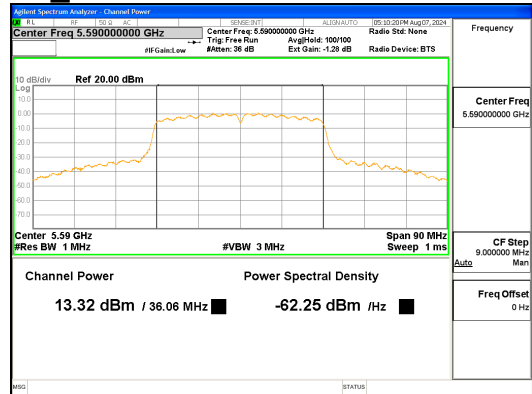
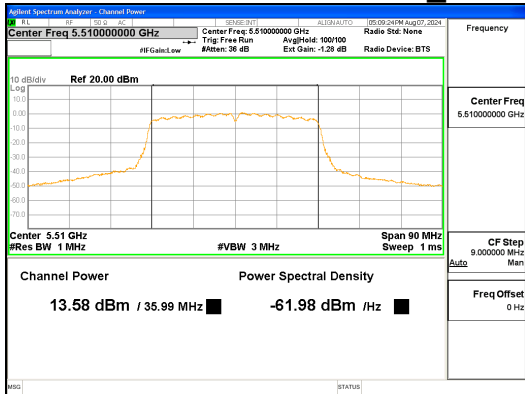
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ANT2_802.11ac_VHT40_UNII 1



ANT2_802.11ac_VHT40_UNII 2A

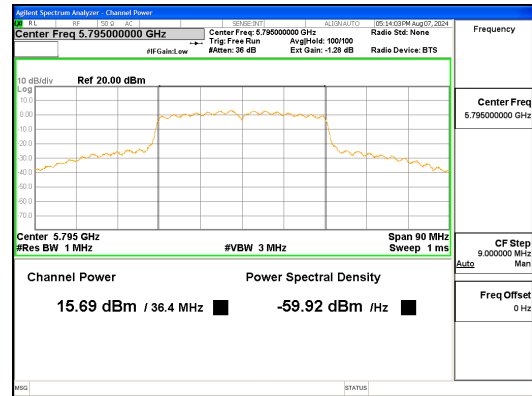
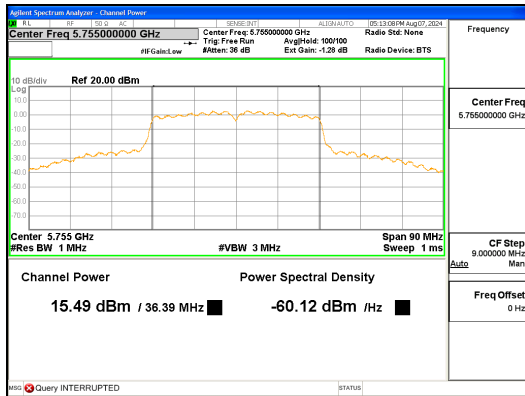


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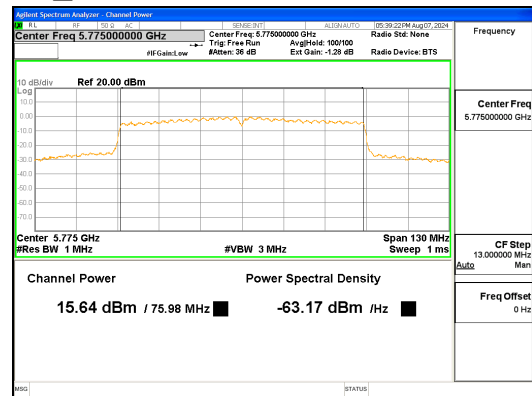
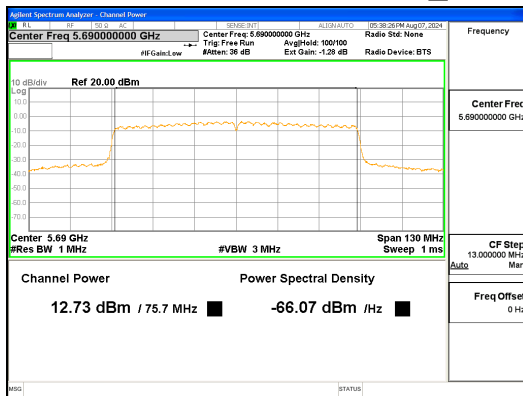
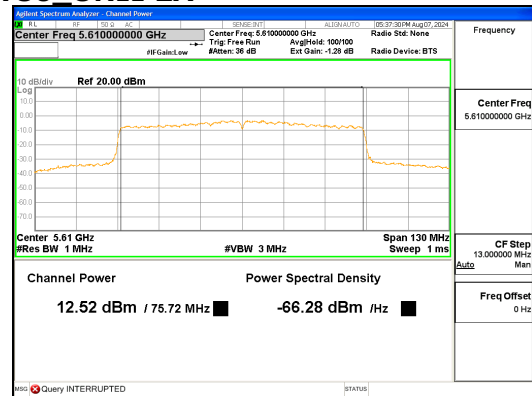
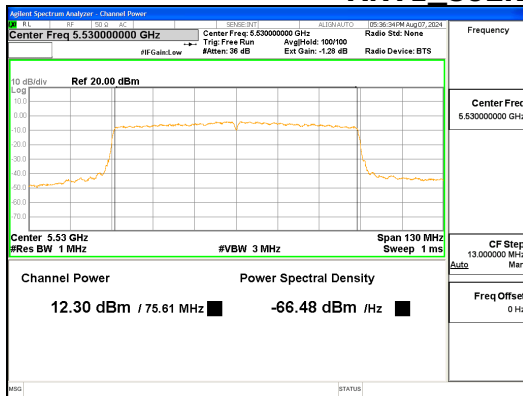
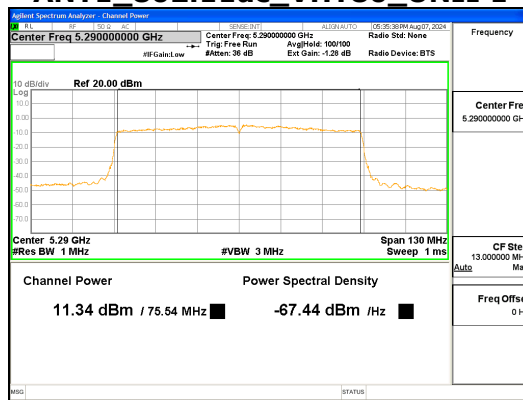
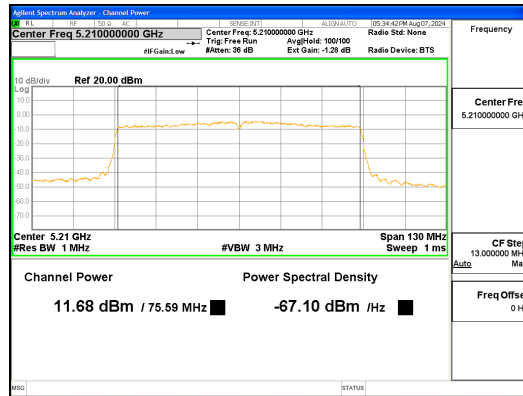


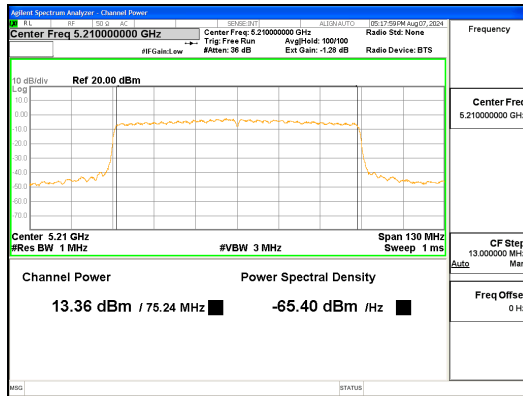
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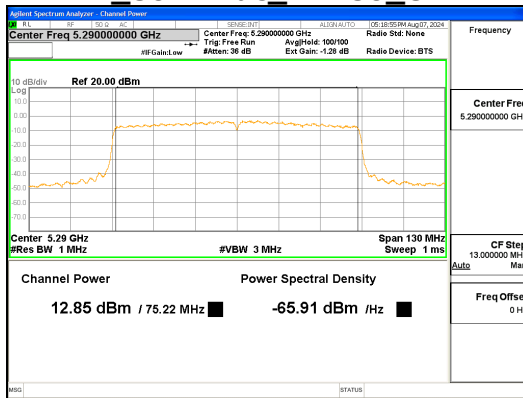


ANT2_802.11ac_VHT40_UNII 3

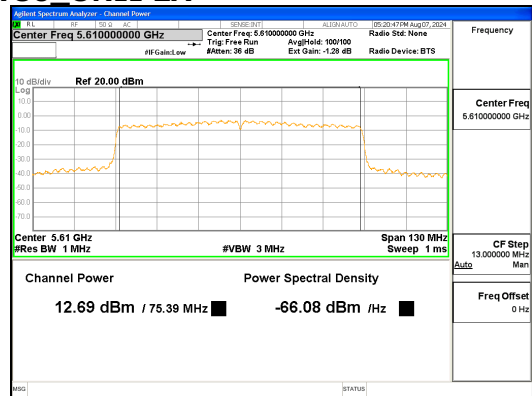
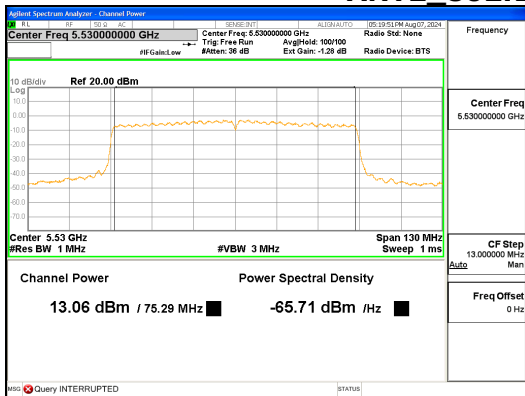




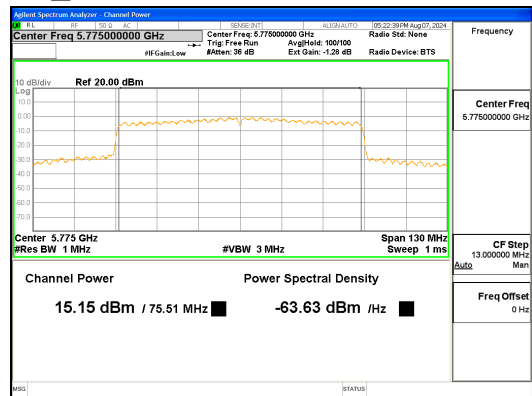
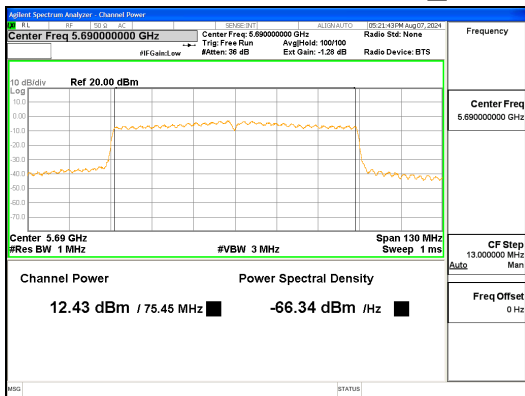
ANT2_802.11ac_VHT80_UNII 1



ANT2_802.11ac_VHT80_UNII 2A



ANT2_802.11ac_VHT80_UNII 2C



ANT2_802.11ac_VHT80_UNII 2C

ANT2_802.11ac_VHT80_UNII 3



4.4 Power Spectral Density

Test Procedures

KDB 789033 – Section F (Method SA-2, Maximum Power Spectral Density)
 KDB 662911 D01, D02 (Multiple Transmitter Output)
 ANSI C63.10-2013 – Section 12.5

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

Test Settings :

Center frequency = the highest, middle and the lowest channels

- a) RBW = 1 MHz, 500 KHz (UNII 3)
- b) VBW = 3 MHz, 1.5 MHz (UNII 3)
- 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
802.11a	0.15 dB
802.11n_HT20	0.17 dB
802.11n_HT40	0.32 dB
802.11ac_VHT20	0.16 dB
802.11ac_VHT40	0.32 dB
802.11ac_VHT80	0.61 dB



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Limit

Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm)
SISO	ANT1, ANT2	3.51	802.11a/n/ac	UNII 1	11.00
				UNII 2A	11.00
				UNII 2C	11.00
				UNII 3	30.00
MIMO (2Tx)	ANT1 + ANT2	6.52	802.11n/ac	UNII 1	10.48
				UNII 2A	10.48
				UNII 2C	10.48
				UNII 3	29.48

Test Data

ANT1

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	3.72	0.15	3.87	11.00	7.13
	5 200	2.99	0.15	3.14	11.00	7.86
	5 240	3.24	0.15	3.39	11.00	7.61
	5 260	4.63	0.15	4.78	11.00	6.22
	5 300	4.97	0.15	5.12	11.00	5.88
	5 320	4.50	0.15	4.65	11.00	6.35
	5 500	5.28	0.15	5.43	11.00	5.57
	5 600	5.30	0.15	5.45	11.00	5.55
	5 700	1.45	0.15	1.60	11.00	9.40
	5 720	5.70	0.15	5.85	11.00	5.15
	5 745	3.45	0.15	3.60	30.00	26.40
	5 785	3.54	0.15	3.69	30.00	26.31
	5 825	3.77	0.15	3.92	30.00	26.08
802.11n _HT20	5 180	0.39	0.17	0.56	11.00	10.44
	5 200	-0.04	0.17	0.13	11.00	10.87
	5 240	0.02	0.17	0.19	11.00	10.81
	5 260	3.53	0.17	3.70	11.00	7.30
	5 300	3.38	0.17	3.55	11.00	7.45
	5 320	3.45	0.17	3.62	11.00	7.38
	5 500	0.88	0.17	1.05	11.00	9.95
	5 600	0.17	0.17	0.34	11.00	10.66
	5 700	0.75	0.17	0.92	11.00	10.08
	5 720	-0.16	0.17	0.01	11.00	10.99
	5 745	-0.01	0.17	0.16	30.00	29.84
	5 785	0.73	0.17	0.90	30.00	29.10
	5 825	1.05	0.17	1.22	30.00	28.78
802.11ac _VHT20	5 180	0.49	0.16	0.65	11.00	10.35
	5 200	-0.21	0.16	-0.05	11.00	11.05
	5 240	-0.06	0.16	0.10	11.00	10.90
	5 260	3.43	0.16	3.59	11.00	7.41
	5 300	3.27	0.16	3.43	11.00	7.57
	5 320	2.88	0.16	3.04	11.00	7.96
	5 500	0.72	0.16	0.88	11.00	10.12



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	5 600	-0.17	0.16	-0.01	11.00	11.01
	5 700	0.93	0.16	1.09	11.00	9.91
	5 720	0.15	0.16	0.31	11.00	10.69
	5 745	0.25	0.16	0.41	30.00	29.59
	5 785	1.08	0.16	1.24	30.00	28.76
	5 825	0.96	0.16	1.12	30.00	28.88
802.11n _HT40	5 190	-0.72	0.32	-0.40	11.00	11.40
	5 230	-0.62	0.32	-0.30	11.00	11.30
	5 270	-1.32	0.32	-1.00	11.00	12.00
	5 310	-1.62	0.32	-1.30	11.00	12.30
	5 510	-0.44	0.32	-0.12	11.00	11.12
	5 590	0.15	0.32	0.47	11.00	10.53
	5 670	0.10	0.32	0.42	11.00	10.58
	5 710	0.53	0.32	0.85	11.00	10.15
	5 755	1.06	0.32	1.38	30.00	28.62
	5 795	0.67	0.32	0.99	30.00	29.01
802.11ac _VHT40	5 190	-0.75	0.32	-0.43	11.00	11.43
	5 230	-0.26	0.32	0.06	11.00	10.94
	5 270	-1.46	0.32	-1.14	11.00	12.14
	5 310	-1.32	0.32	-1.00	11.00	12.00
	5 510	-0.55	0.32	-0.23	11.00	11.23
	5 590	-0.06	0.32	0.26	11.00	10.74
	5 670	0.22	0.32	0.54	11.00	10.46
	5 710	0.58	0.32	0.90	11.00	10.10
	5 755	0.61	0.32	0.93	30.00	29.07
	5 795	0.67	0.32	0.99	30.00	29.01
802.11ac _VHT80	5 210	-4.47	0.61	-3.86	11.00	14.86
	5 290	-4.53	0.61	-3.92	11.00	14.92
	5 530	-4.16	0.61	-3.55	11.00	14.55
	5 610	-3.16	0.61	-2.55	11.00	13.55
	5 690	-3.53	0.61	-2.92	11.00	13.92
	5 775	-2.31	0.61	-1.70	30.00	31.70
Measurement uncertainty		± 1.5 dB				



ANT2

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 180	3.97	0.15	4.12	11.00	6.88
	5 200	3.33	0.15	3.48	11.00	7.52
	5 240	3.68	0.15	3.83	11.00	7.17
	5 260	5.07	0.15	5.22	11.00	5.78
	5 300	5.09	0.15	5.24	11.00	5.76
	5 320	4.71	0.15	4.86	11.00	6.14
	5 500	4.63	0.15	4.78	11.00	6.22
	5 600	5.14	0.15	5.29	11.00	5.71
	5 700	4.76	0.15	4.91	11.00	6.09
	5 720	5.66	0.15	5.81	11.00	5.19
	5 745	3.72	0.15	3.87	30.00	26.13
	5 785	4.26	0.15	4.41	30.00	25.59
	5 825	4.43	0.15	4.58	30.00	25.42
802.11n _HT20	5 180	0.8	0.17	0.97	11.00	10.03
	5 200	-0.28	0.17	-0.11	11.00	11.11
	5 240	0.32	0.17	0.49	11.00	10.51
	5 260	3.65	0.17	3.82	11.00	7.18
	5 300	3.35	0.17	3.52	11.00	7.48
	5 320	4.01	0.17	4.18	11.00	6.82
	5 500	3.39	0.17	3.56	11.00	7.44
	5 600	3.96	0.17	4.13	11.00	6.87
	5 700	3.23	0.17	3.40	11.00	7.60
	5 720	4.17	0.17	4.34	11.00	6.66
	5 745	3.9	0.17	4.07	30.00	25.93
	5 785	4.17	0.17	4.34	30.00	25.66
	5 825	4.25	0.17	4.42	30.00	25.58
802.11ac _VHT20	5 180	1.72	0.16	1.88	11.00	9.12
	5 200	0.94	0.16	1.10	11.00	9.90
	5 240	1.4	0.16	1.56	11.00	9.44
	5 260	4.5	0.16	4.66	11.00	6.34
	5 300	4.62	0.16	4.78	11.00	6.22
	5 320	4.46	0.16	4.62	11.00	6.38
	5 500	3.56	0.16	3.72	11.00	7.28
	5 600	3.84	0.16	4.00	11.00	7.00



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	5 700	2.9	0.16	3.06	11.00	7.94
	5 720	3.61	0.16	3.77	11.00	7.23
	5 745	2.75	0.16	2.91	30.00	27.09
	5 785	2.96	0.16	3.12	30.00	26.88
	5 825	3.65	0.16	3.81	30.00	26.19
802.11n _HT40	5 190	0.65	0.32	0.97	11.00	10.03
	5 230	0.87	0.32	1.19	11.00	9.81
	5 270	-0.61	0.32	-0.29	11.00	11.29
	5 310	-0.64	0.32	-0.32	11.00	11.32
	5 510	-0.07	0.32	0.25	11.00	10.75
	5 590	-0.1	0.32	0.22	11.00	10.78
	5 670	0.04	0.32	0.36	11.00	10.64
	5 710	0.1	0.32	0.42	11.00	10.58
	5 755	0.6	0.32	0.92	30.00	29.08
	5 795	0.93	0.32	1.25	30.00	28.75
802.11ac _VHT40	5 190	1.19	0.32	1.51	11.00	9.49
	5 230	1.35	0.32	1.67	11.00	9.33
	5 270	0.28	0.32	0.60	11.00	10.40
	5 310	0.31	0.32	0.63	11.00	10.37
	5 510	0.57	0.32	0.89	11.00	10.11
	5 590	0.52	0.32	0.84	11.00	10.16
	5 670	0.06	0.32	0.38	11.00	10.62
	5 710	0.01	0.32	0.33	11.00	10.67
	5 755	0.04	0.32	0.36	30.00	29.64
	5 795	0.38	0.32	0.70	30.00	29.30
802.11ac _VHT80	5 210	-2.62	0.61	-2.01	11.00	13.01
	5 290	-2.74	0.61	-2.13	11.00	13.13
	5 530	-2.13	0.61	-1.52	11.00	12.52
	5 610	-3.28	0.61	-2.67	11.00	13.67
	5 690	-2.89	0.61	-2.28	11.00	13.28
	5 775	-3.09	0.61	-2.48	30.00	32.48
Measurement uncertainty		± 1.5 dB				



ANT1 + ANT2

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11n _HT20	5 180	3.61	0.17	3.78	10.48	6.70
	5 200	2.85	0.17	3.02	10.48	7.46
	5 240	3.18	0.17	3.35	10.48	7.13
	5 260	6.60	0.17	6.77	10.48	3.71
	5 300	6.38	0.17	6.55	10.48	3.93
	5 320	6.75	0.17	6.92	10.48	3.56
	5 500	5.32	0.17	5.49	10.48	4.99
	5 600	5.48	0.17	5.65	10.48	4.83
	5 700	5.17	0.17	5.34	10.48	5.14
	5 720	5.53	0.17	5.70	10.48	4.78
	5 745	5.38	0.17	5.55	29.48	23.93
	5 785	5.79	0.17	5.96	29.48	23.52
	5 825	5.95	0.17	6.12	29.48	23.36
802.11ac _VHT20	5 180	4.16	0.16	4.32	10.48	6.16
	5 200	3.41	0.16	3.57	10.48	6.91
	5 240	3.74	0.16	3.90	10.48	6.58
	5 260	7.01	0.16	7.17	10.48	3.31
	5 300	7.01	0.16	7.17	10.48	3.31
	5 320	6.75	0.16	6.91	10.48	3.57
	5 500	5.38	0.16	5.54	10.48	4.94
	5 600	5.29	0.16	5.45	10.48	5.03
	5 700	5.04	0.16	5.20	10.48	5.28
	5 720	5.23	0.16	5.39	10.48	5.09
	5 745	4.69	0.16	4.85	29.48	24.63
	5 785	5.13	0.16	5.29	29.48	24.19
	5 825	5.52	0.16	5.68	29.48	23.80
802.11n _HT40	5 190	3.03	0.32	3.35	10.48	7.13
	5 230	3.20	0.32	3.52	10.48	6.96
	5 270	2.06	0.32	2.38	10.48	8.10
	5 310	1.91	0.32	2.23	10.48	8.25
	5 510	2.76	0.32	3.08	10.48	7.40
	5 590	3.04	0.32	3.36	10.48	7.12
	5 670	3.08	0.32	3.40	10.48	7.08
	5 710	3.33	0.32	3.65	10.48	6.83

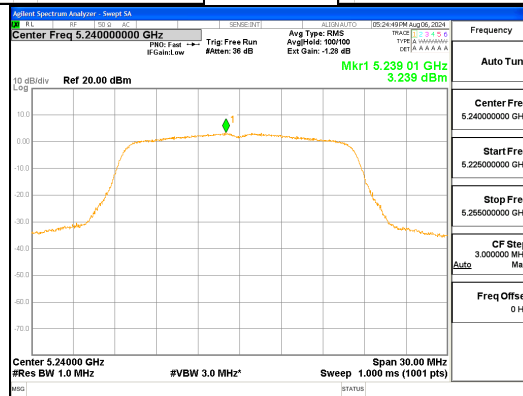
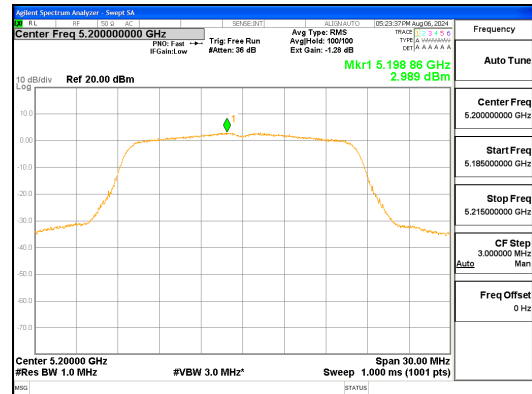
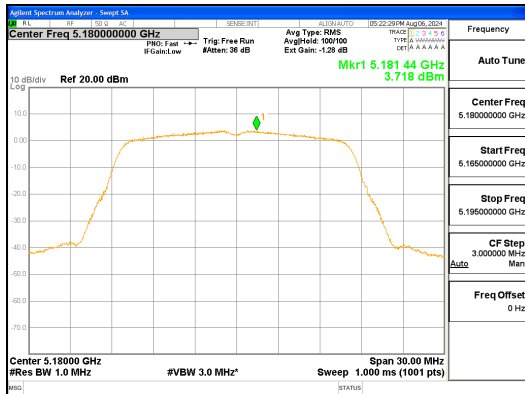


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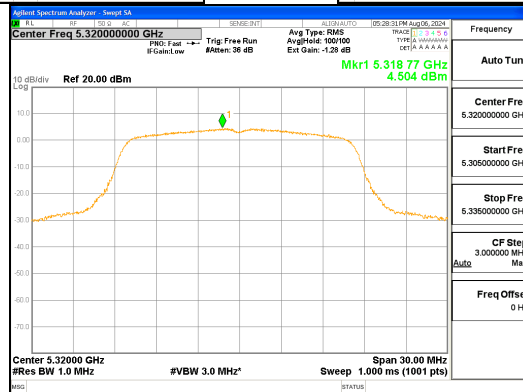
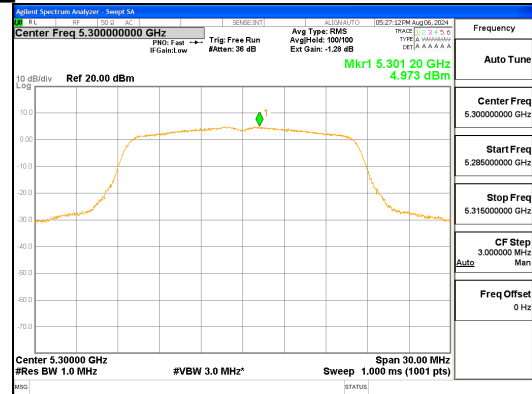
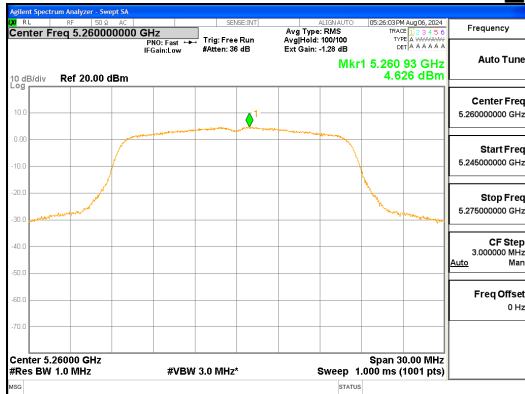
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	5 755	3.85	0.32	4.17	29.48	25.31
	5 795	3.81	0.32	4.13	29.48	25.35
802.11ac _VHT40	5 190	3.34	0.32	3.66	10.48	6.82
	5 230	3.63	0.32	3.95	10.48	6.53
	5 270	2.51	0.32	2.83	10.48	7.65
	5 310	2.58	0.32	2.90	10.48	7.58
	5 510	3.06	0.32	3.38	10.48	7.10
	5 590	3.25	0.32	3.57	10.48	6.91
	5 670	3.15	0.32	3.47	10.48	7.01
	5 710	3.31	0.32	3.63	10.48	6.85
	5 755	3.34	0.32	3.66	29.48	25.82
5 795	3.54	0.32	3.86	29.48	25.62	
802.11ac _VHT80	5 210	-0.44	0.61	0.17	10.48	10.31
	5 290	-0.53	0.61	0.08	10.48	10.40
	5 530	-0.02	0.61	0.59	10.48	9.89
	5 610	-0.21	0.61	0.40	10.48	10.08
	5 690	-0.19	0.61	0.42	10.48	10.06
	5 775	0.33	0.61	0.94	29.48	28.54
Measurement uncertainty		± 1.5 dB				

See next pages for actual measured spectrum plots.



ANT1_802.11a_UNII 1

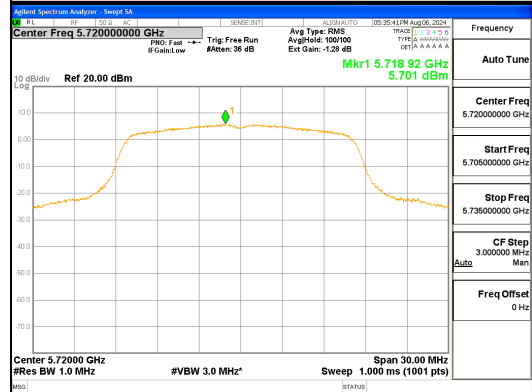
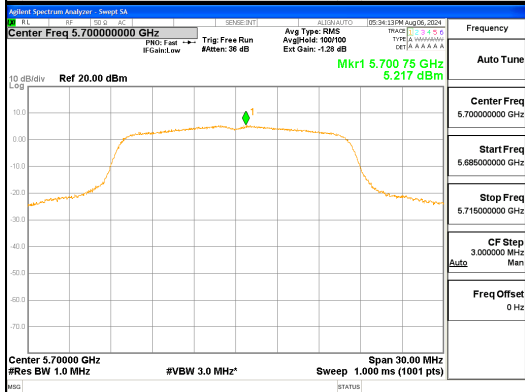
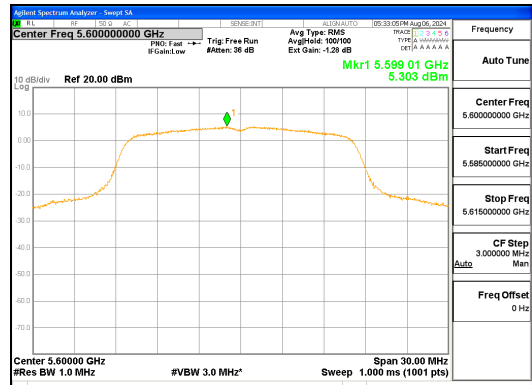
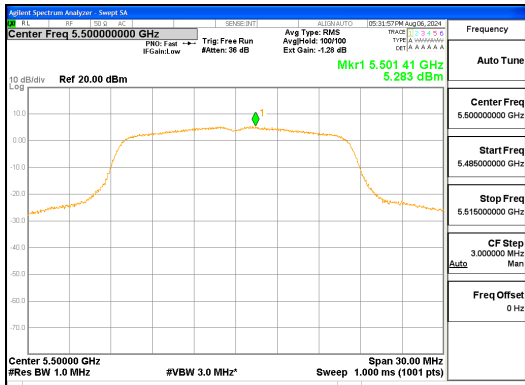


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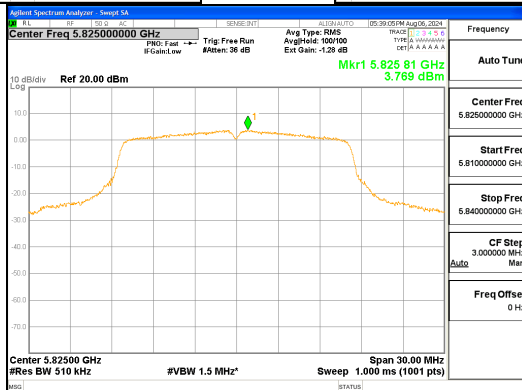
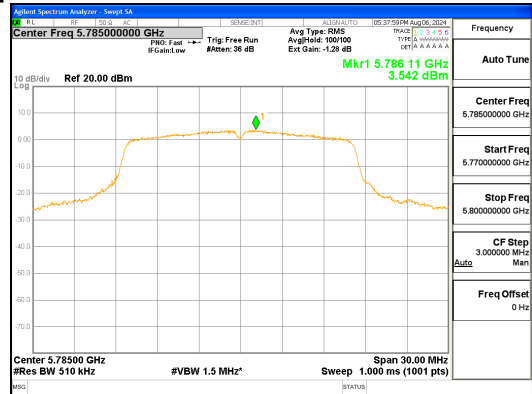
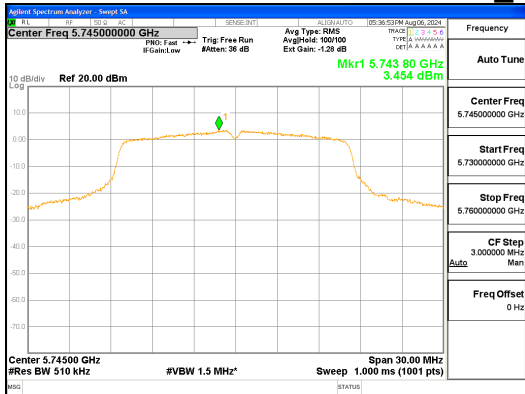


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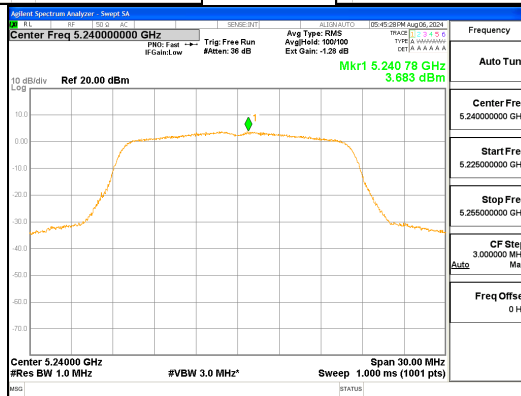
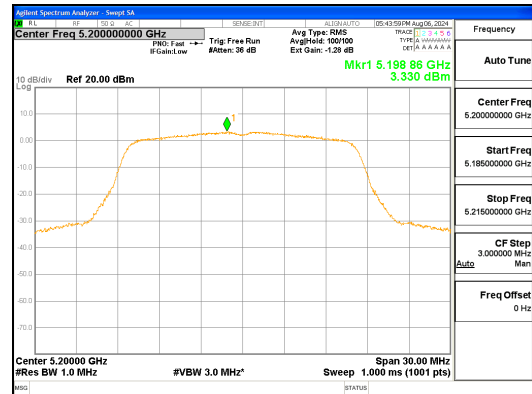
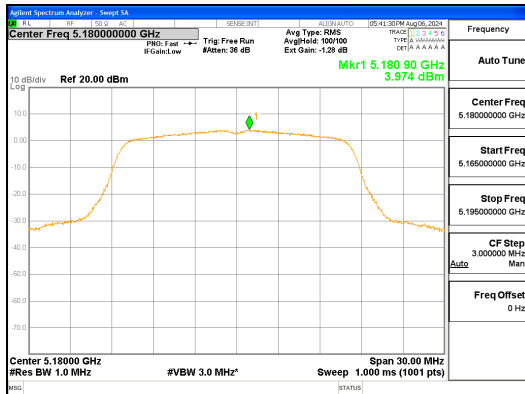
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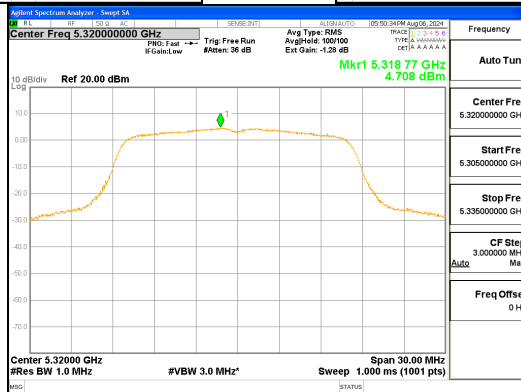
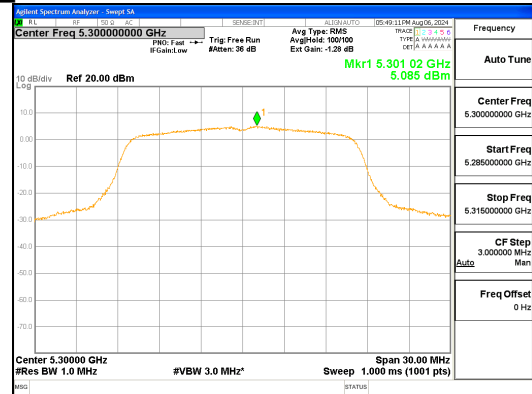
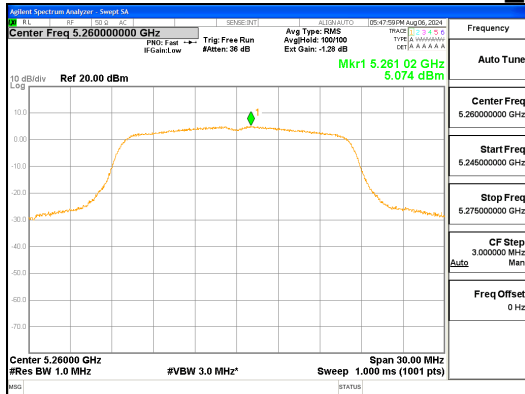
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ANT1_802.11a_UNII 3



ANT2_802.11a_UNII 1

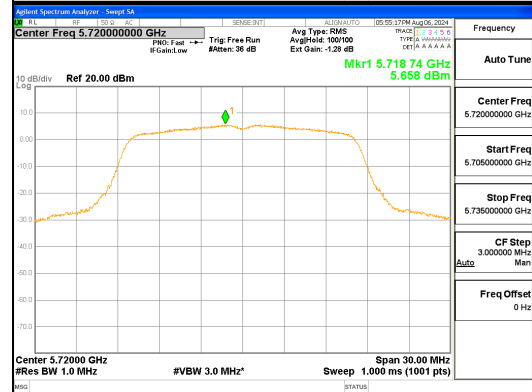
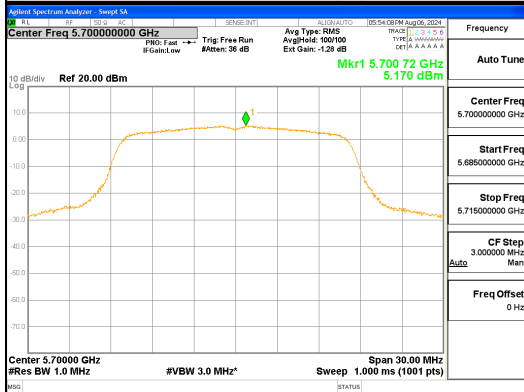
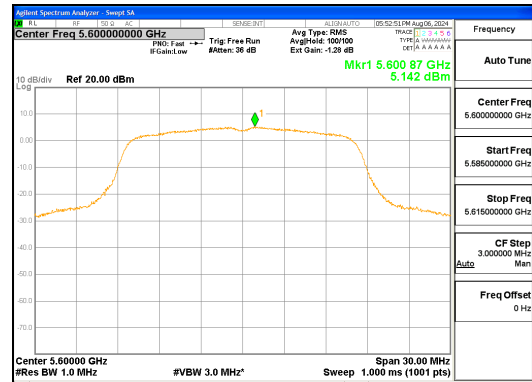
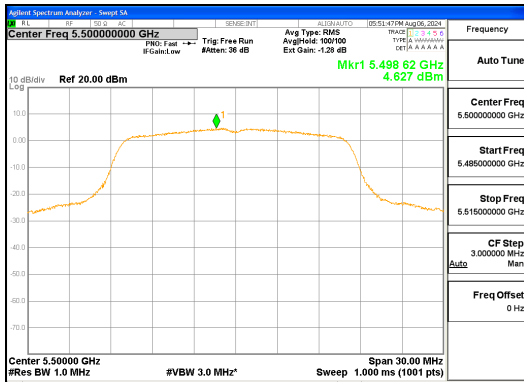


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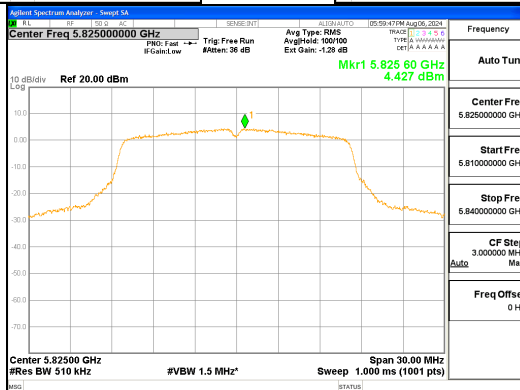
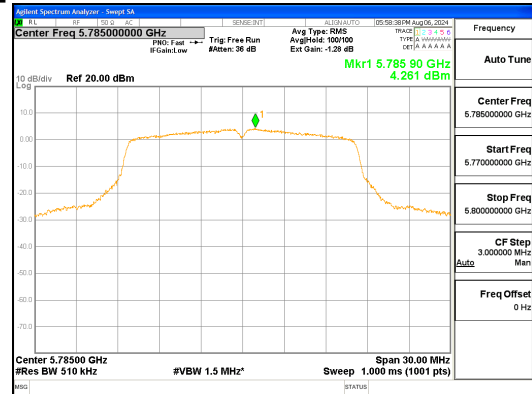
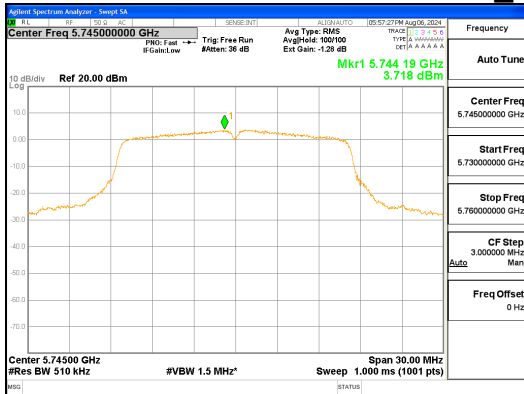


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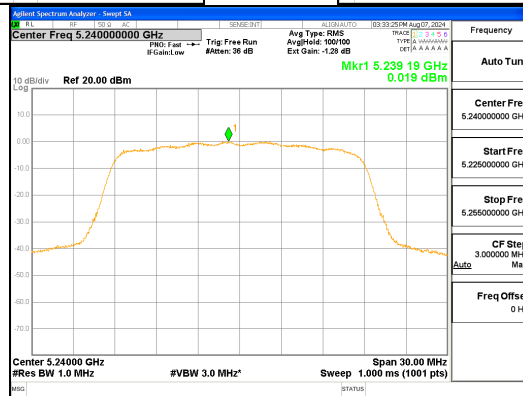
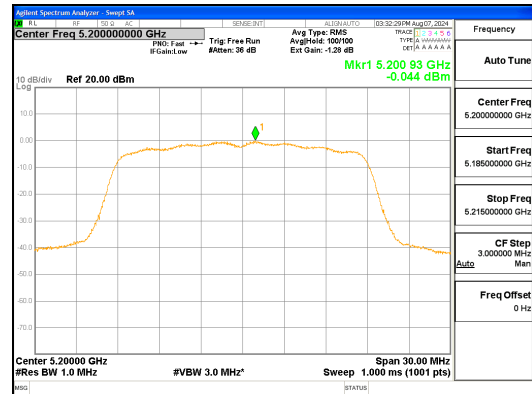
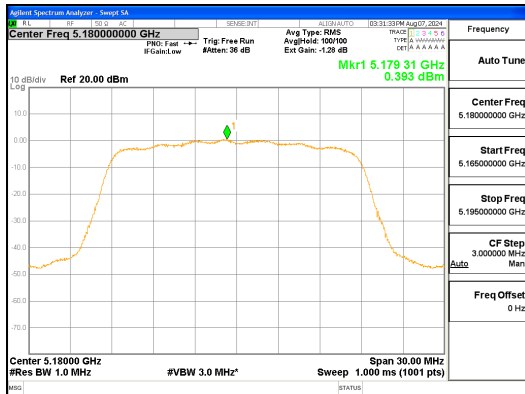
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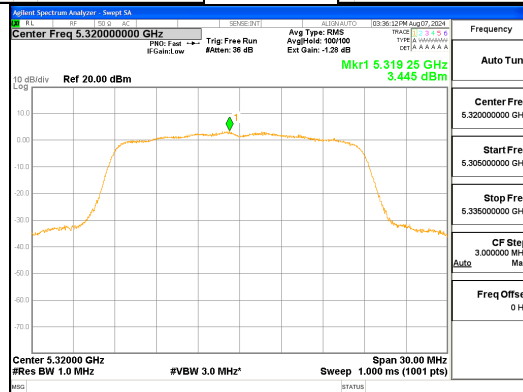
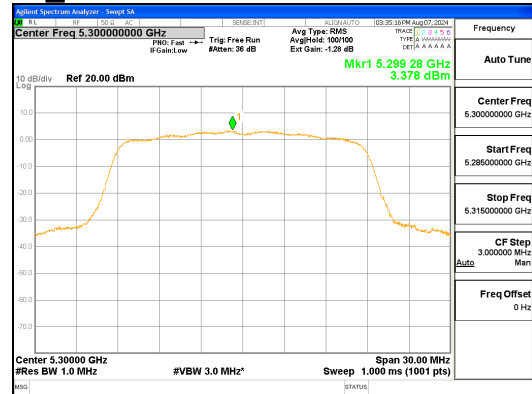
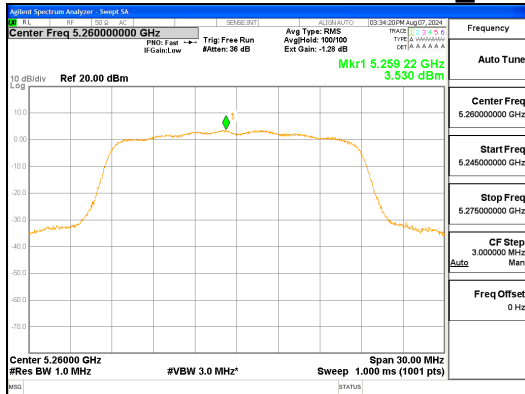
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ANT2_802.11a_UNII 3



ANT1_802.11n_HT20_UNII 1

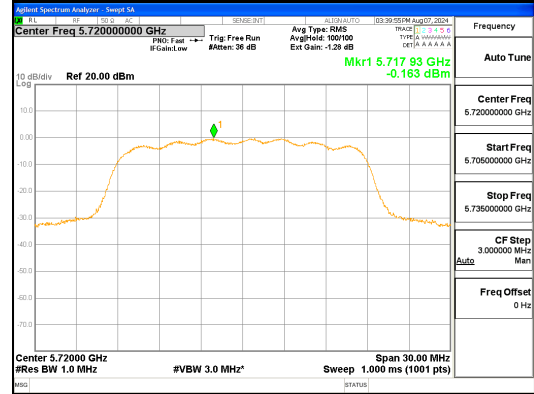
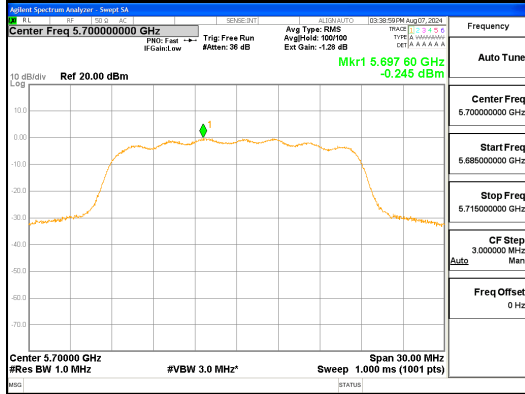
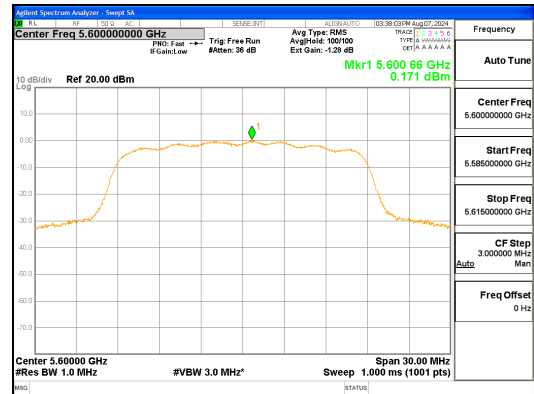
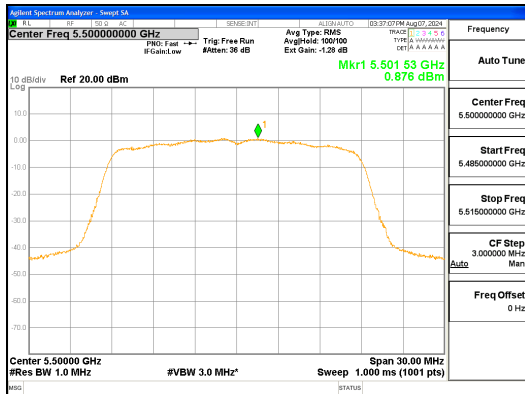


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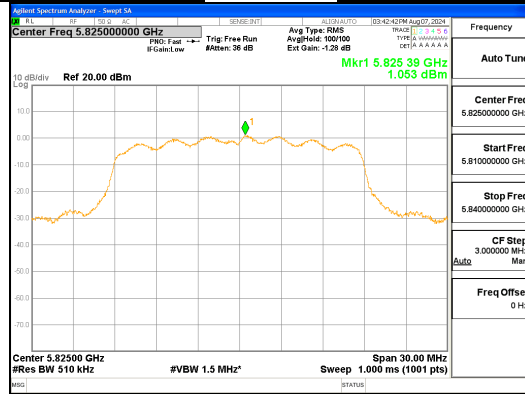
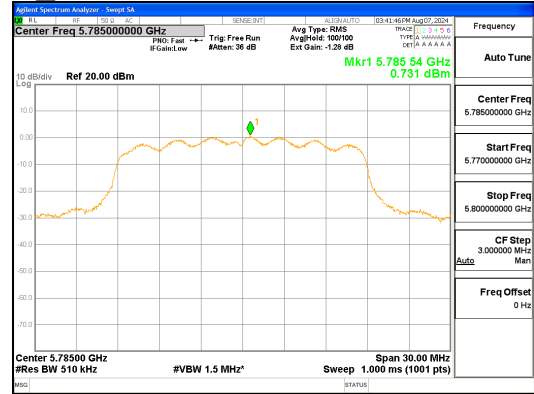
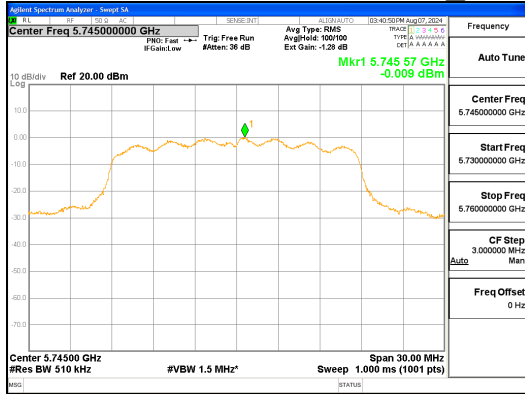


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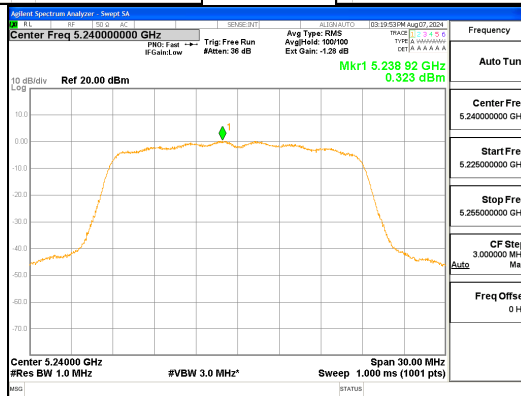
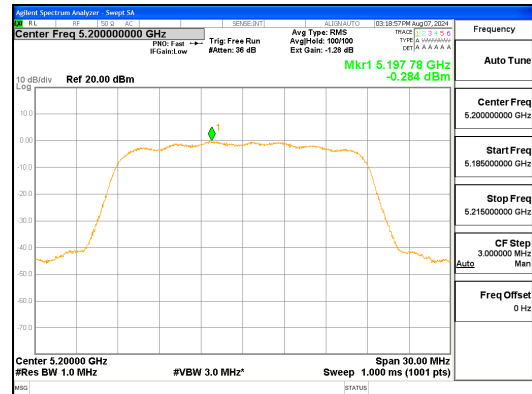
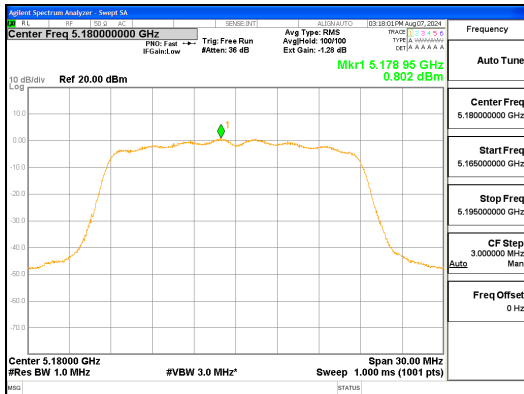
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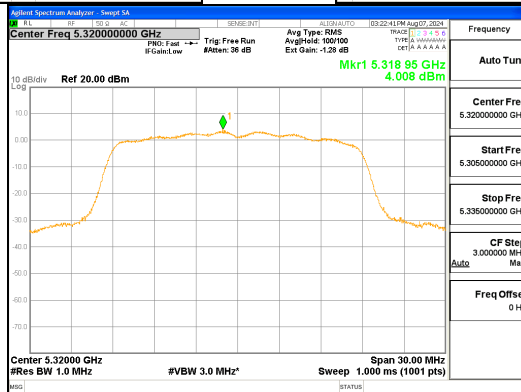
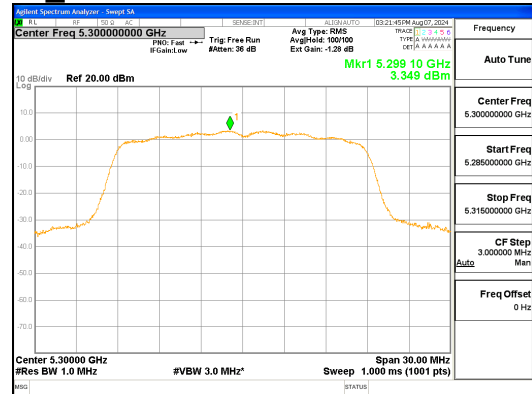
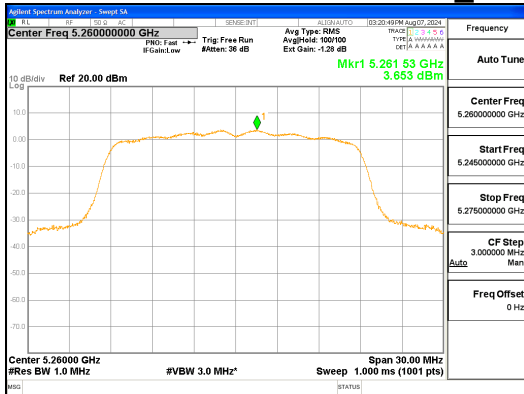
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ANT1_802.11n_HT20_UNII 3



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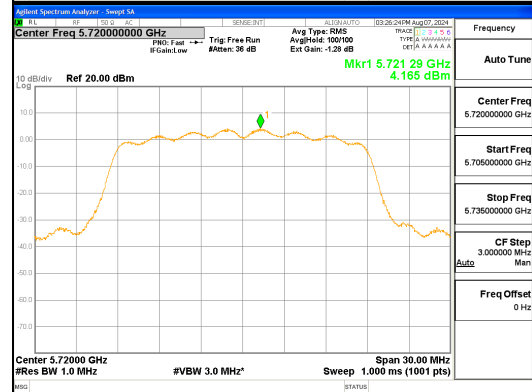
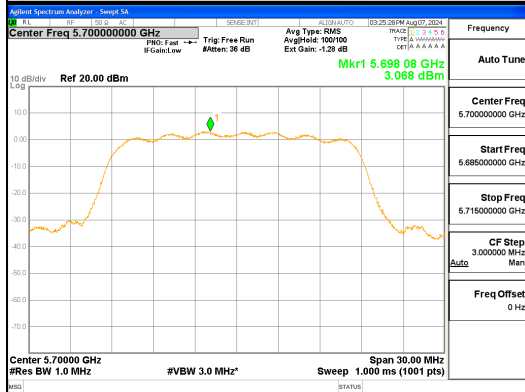
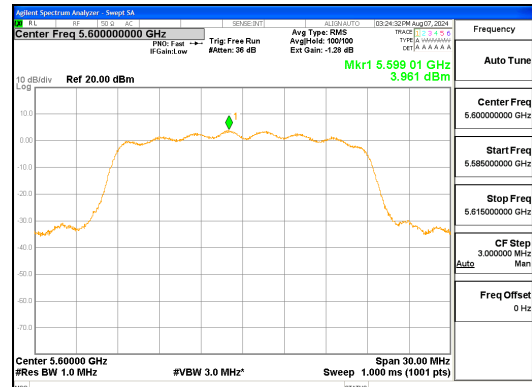
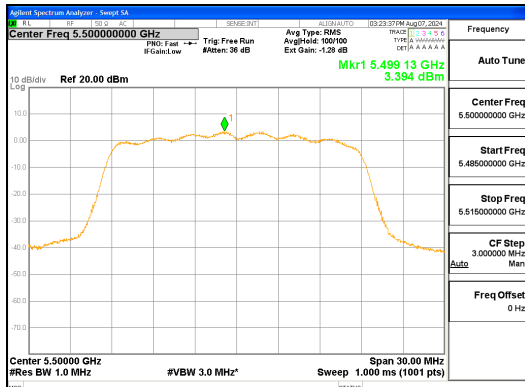


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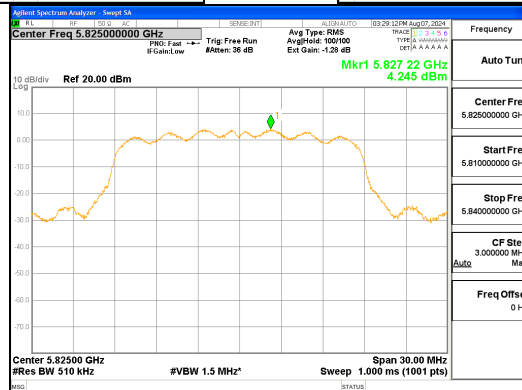
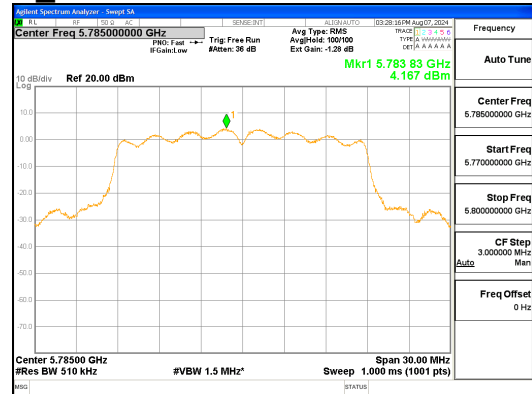
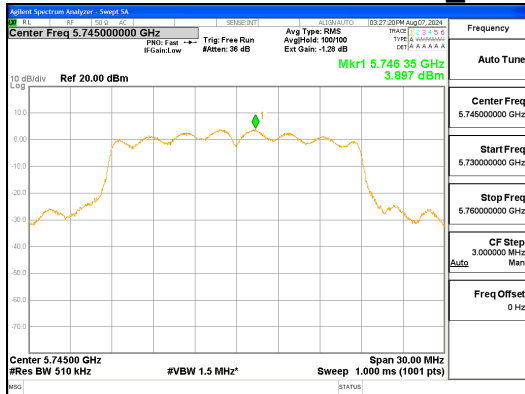


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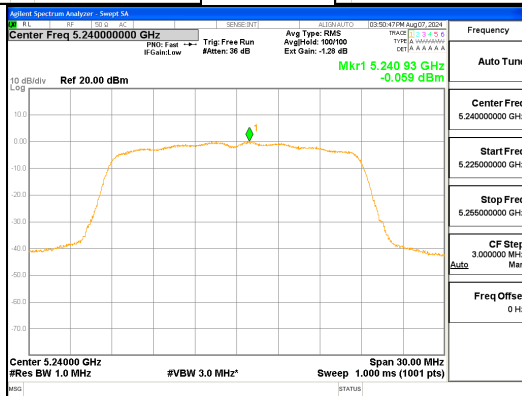
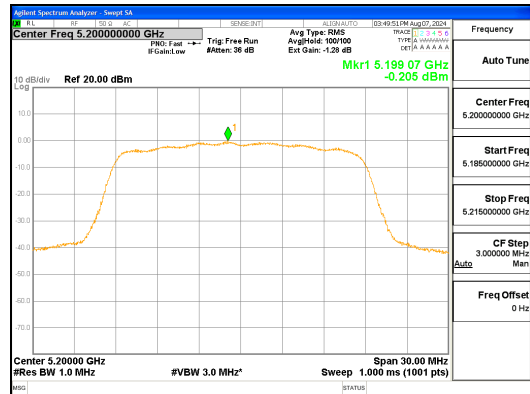
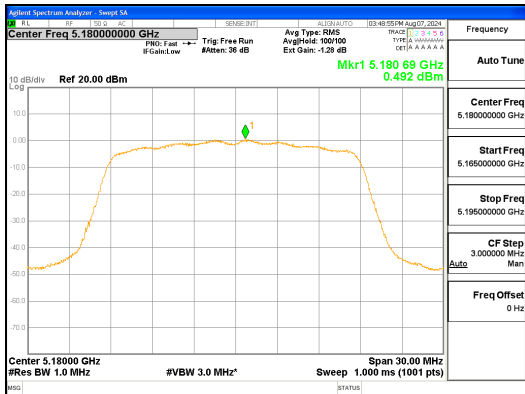
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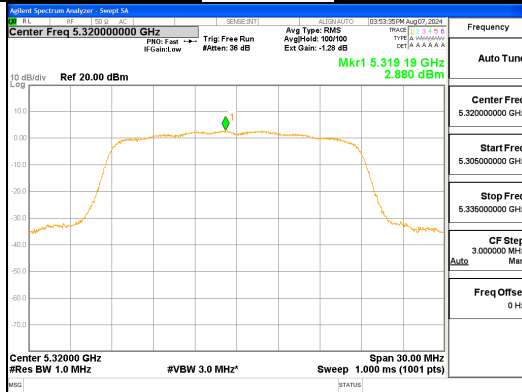
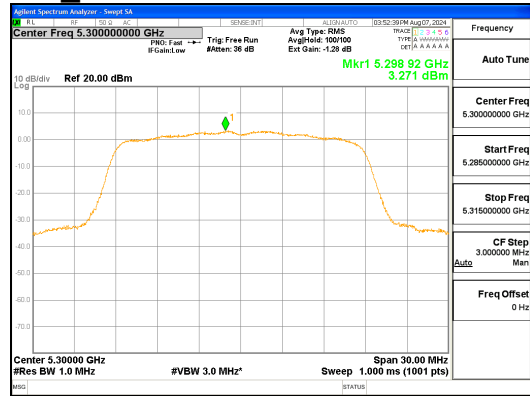
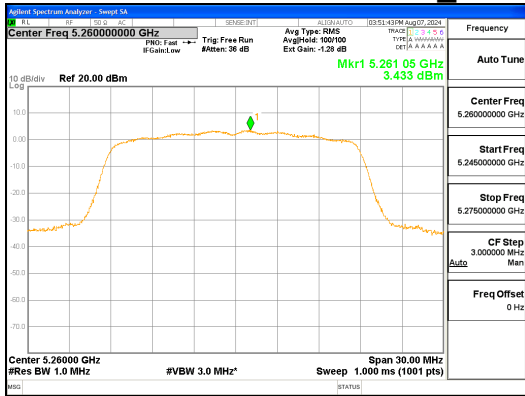
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ANT1_802.11ac_VHT20_UNII 2A