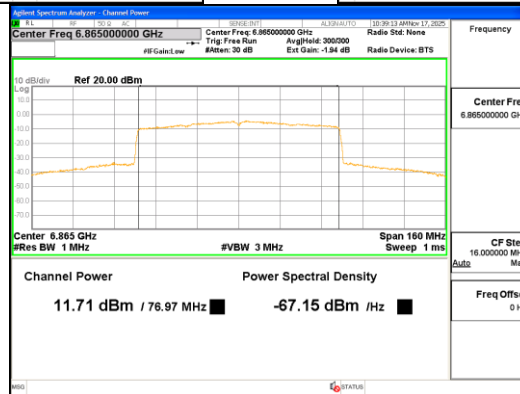
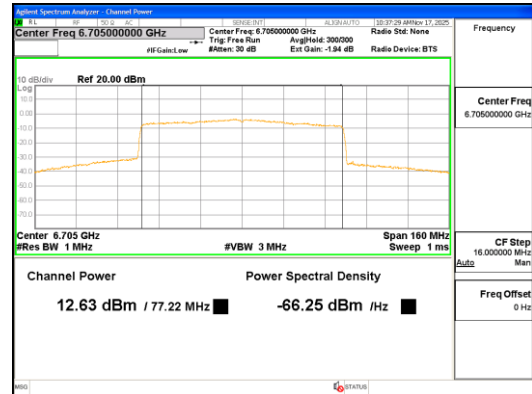
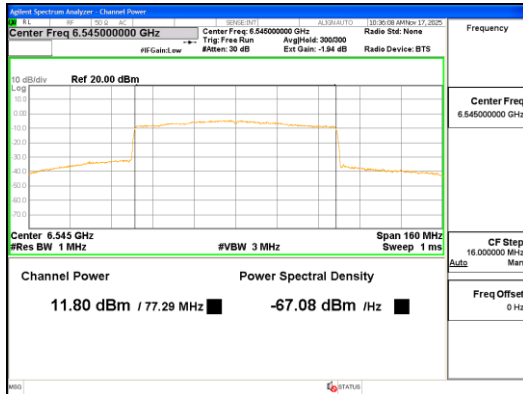




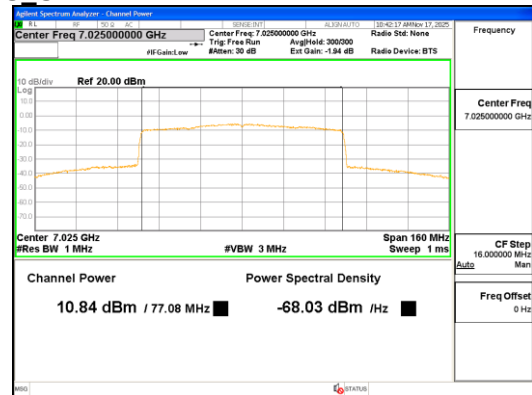
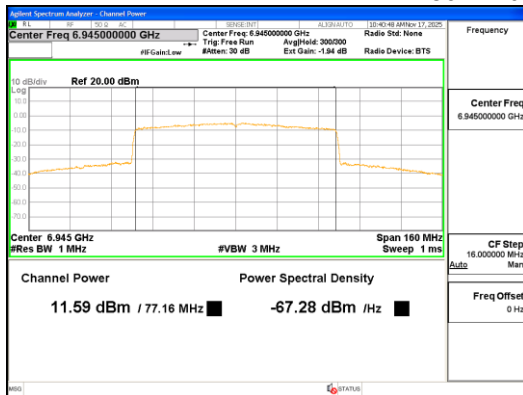
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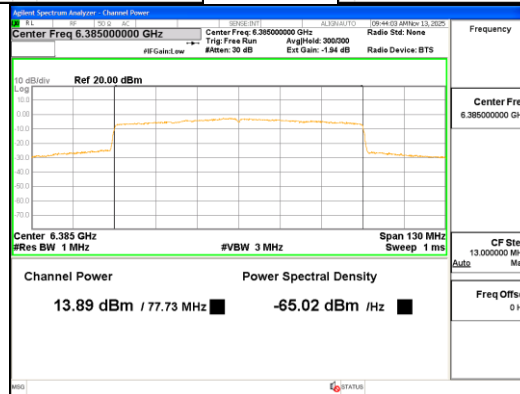
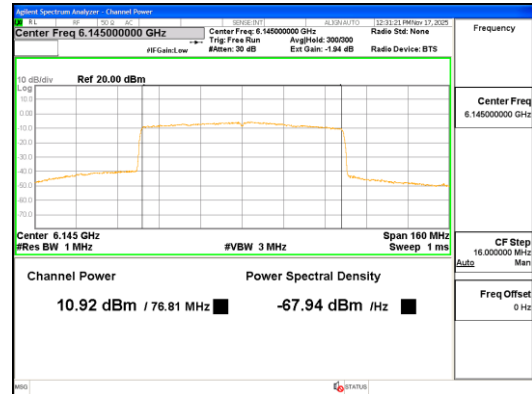
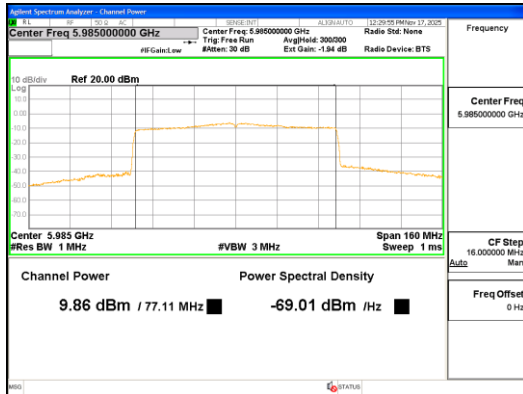
802.11ax_HE80_SU_UNII 8



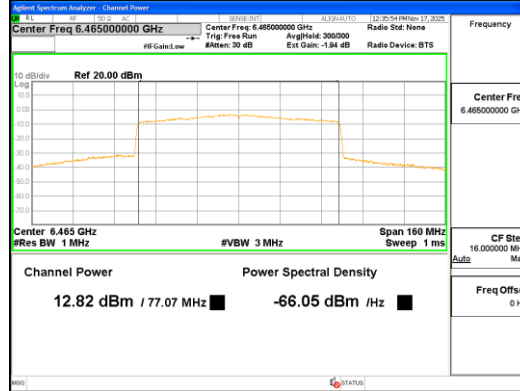
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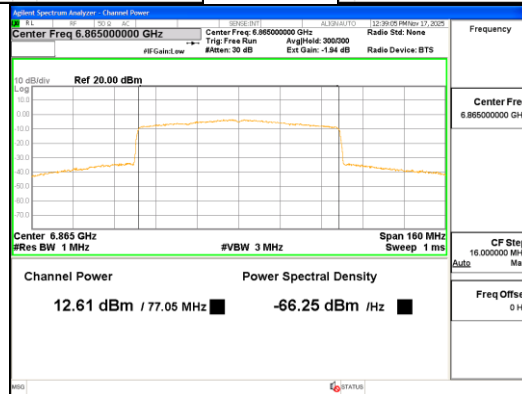
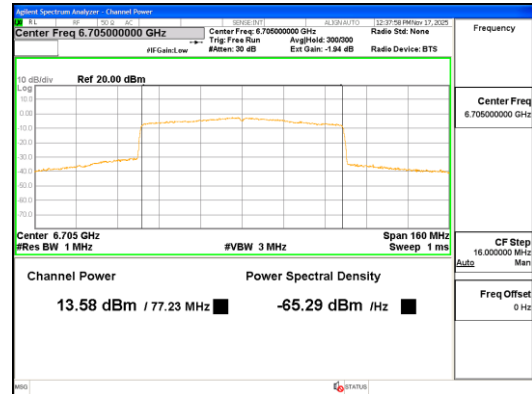
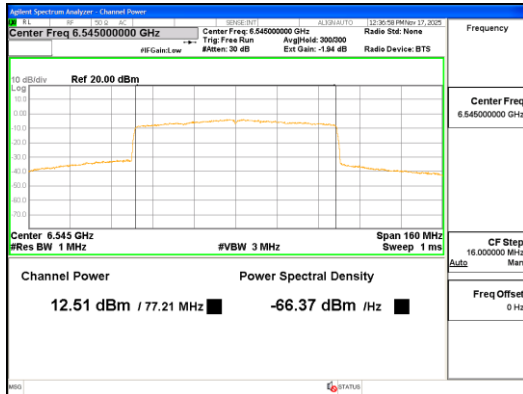
802.11be EHT80 SU UNII 6



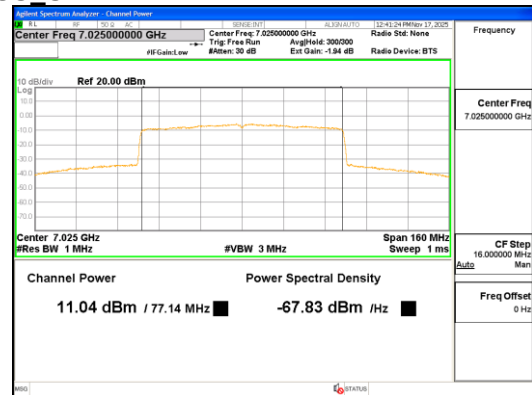
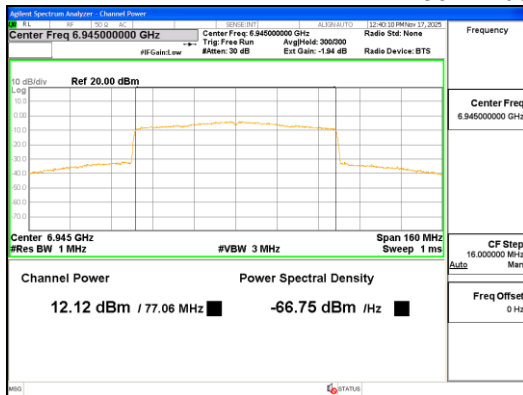
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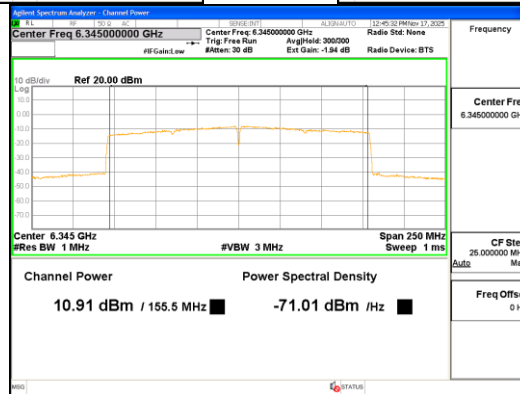
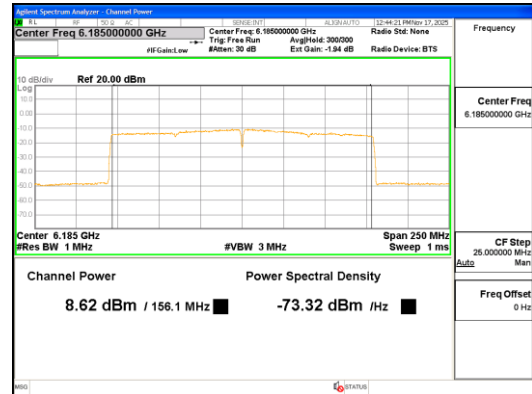
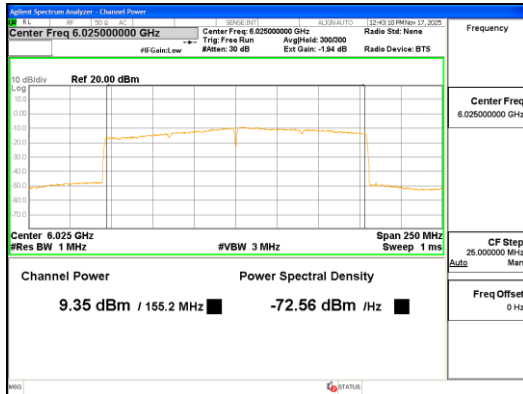
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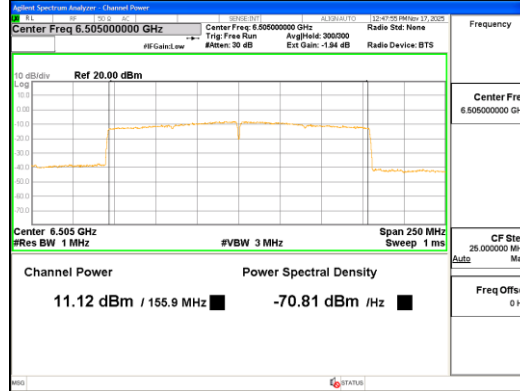
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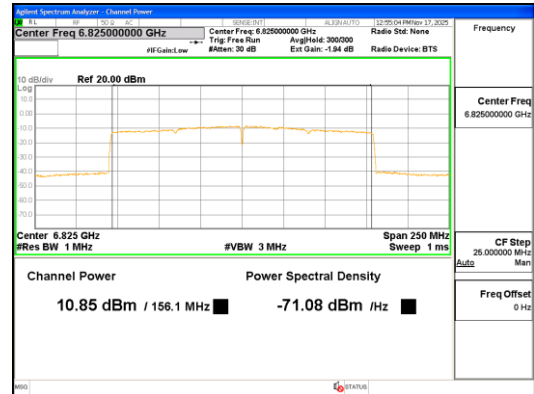
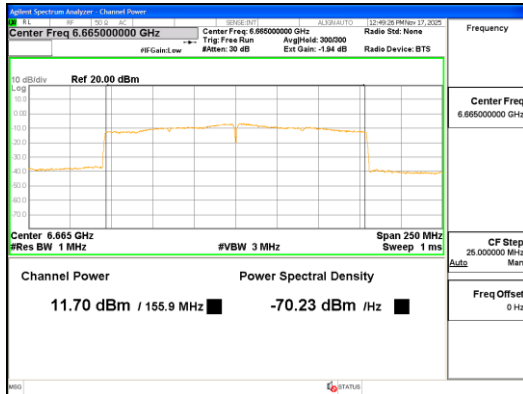


802.11ax_HE160_SU_UNII 6

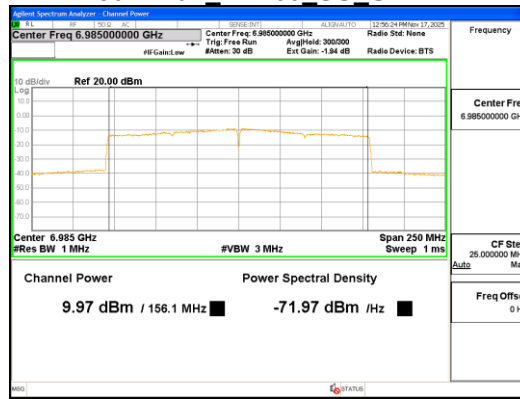


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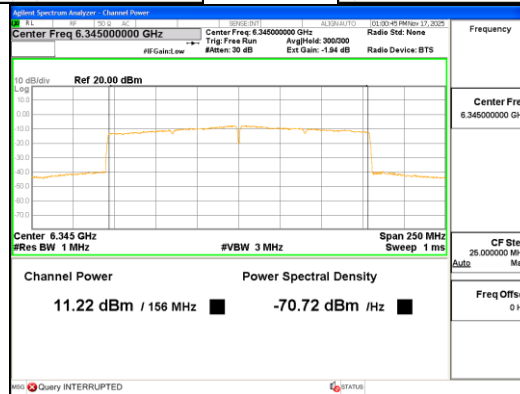
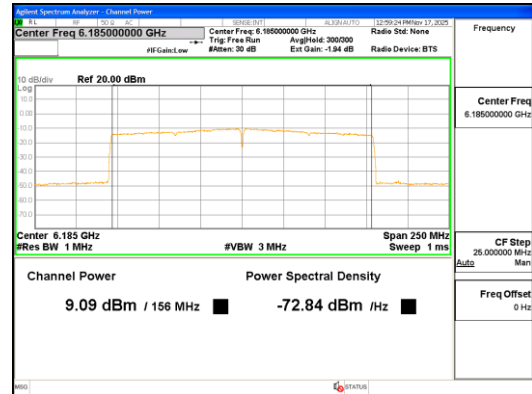
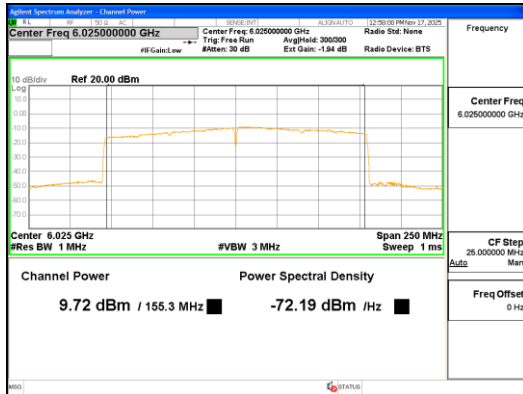
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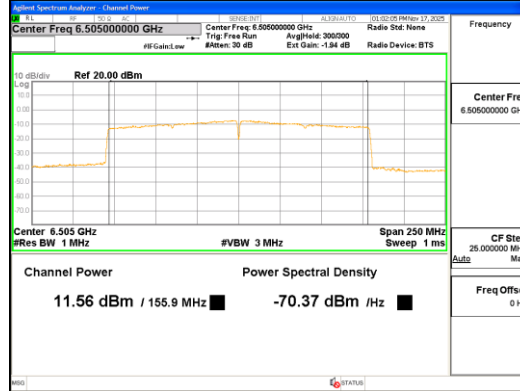
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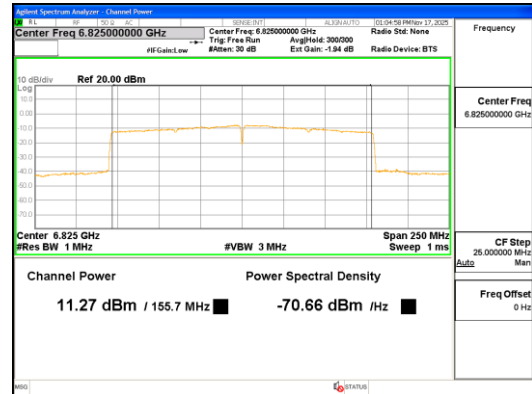
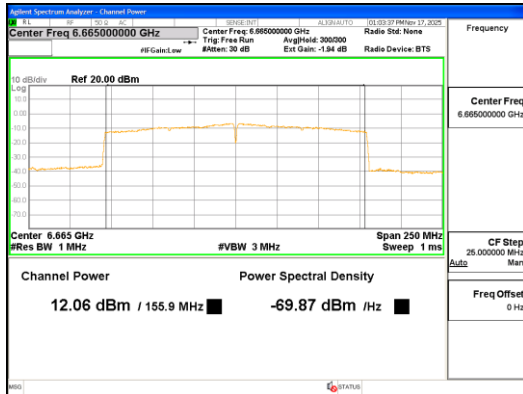


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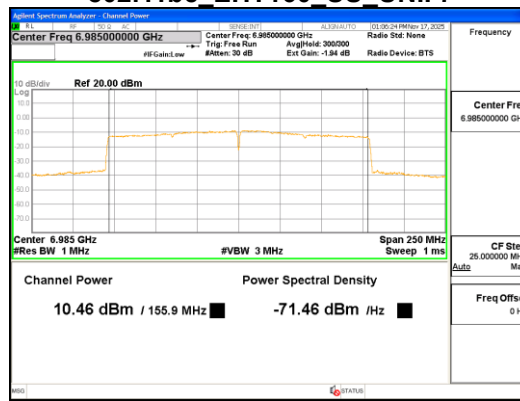


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4.3 Power Spectral Density

Test Procedures

KDB 987594 – Section F

KDB 789033 – Section F (Method SA-2, Maximum Power Spectral Density)

ANSI C63.10-2020 – Section 12.6

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

b) VBW = 3 MHz

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	1.17
802.11ax_HE20_SU	3.78
802.11ax_HE40_SU	3.78
802.11ax_HE80_SU	3.90
802.11ax_HE160_SU	3.88
802.11be_EHT20_SU	3.39
802.11be_EHT40_SU	3.39
802.11be_EHT80_SU	3.50
802.11be_EHT160_SU	3.48

Limit

Device Type	Operating Mode	ANT Configuration	ANT Gain (dBi)	Mode	Band	Limit (dBm/MHz)
6ID	SISO	ANT0	1.90	802.11a/ax/be	UNII 5 UNII 6 UNII 7 UNII 8	5.00 EIRP

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Test Data

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11a	5 975 MHz	-3.27	1.17	1.90	-0.20	5.00	5.20
	6 215 MHz	-2.61	1.17		0.46	5.00	4.54
	6 375 MHz	0.04	1.17		3.11	5.00	1.89
	6 455 MHz	0.48	1.17		3.55	5.00	1.45
	6 535 MHz	0.45	1.17		3.52	5.00	1.48
	6 695 MHz	0.38	1.17		3.45	5.00	1.55
	6 855 MHz	-0.16	1.17		2.91	5.00	2.09
	6 935 MHz	0.03	1.17		3.10	5.00	1.90
	7 015 MHz	-0.89	1.17		2.18	5.00	2.82
	7 095 MHz	-0.55	1.17		2.52	5.00	2.48

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE20 _SU	5 955	-6.53	3.78	1.90	-0.85	5.00	5.85
	6 175	-5.14	3.78		0.54	5.00	4.46
	6 415	-1.98	3.78		3.70	5.00	1.30
	6 435	-2.80	3.78		2.88	5.00	2.12
	6 475	-3.01	3.78		2.67	5.00	2.33
	6 515	-2.34	3.78		3.34	5.00	1.66
	6 535	-2.51	3.78		3.17	5.00	1.83
	6 695	-2.40	3.78		3.28	5.00	1.72
	6 855	-3.05	3.78		2.63	5.00	2.37
	6 875	-2.47	3.78		3.21	5.00	1.79
	6 995	-2.62	3.78		3.06	5.00	1.94
	7 095	-2.41	3.78		3.27	5.00	1.73
	7 115	-9.54	3.78		-3.86	5.00	8.86

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Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11be _EHT20 _SU	5 955	-6.60	3.39	1.90	-1.31	5.00	6.31
	6 175	-4.58	3.39		0.71	5.00	4.29
	6 415	-1.56	3.39		3.73	5.00	1.27
	6 435	-1.87	3.39		3.42	5.00	1.58
	6 475	-1.90	3.39		3.39	5.00	1.61
	6 515	-1.75	3.39		3.54	5.00	1.46
	6 535	-2.09	3.39		3.20	5.00	1.80
	6 695	-1.80	3.39		3.49	5.00	1.51
	6 855	-1.87	3.39		3.42	5.00	1.58
	6 875	-1.83	3.39		3.46	5.00	1.54
	6 995	-2.33	3.39		2.96	5.00	2.04
	7 095	-2.06	3.39		3.23	5.00	1.77
	7 115	-9.08	3.39		-3.79	5.00	8.79

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE40 _SU	5 965	-7.03	3.78	1.90	-1.35	5.00	6.35
	6 165	-5.39	3.78		0.29	5.00	4.71
	6 405	-2.44	3.78		3.24	5.00	1.76
	6 445	-2.67	3.78		3.01	5.00	1.99
	6 485	-2.79	3.78		2.89	5.00	2.11
	6 525	-2.32	3.78		3.36	5.00	1.64
	6 685	-2.45	3.78		3.23	5.00	1.77
	6 845	-3.11	3.78		2.57	5.00	2.43
	6 885	-3.04	3.78		2.64	5.00	2.36
	7 005	-3.73	3.78		1.95	5.00	3.05
	7 085	-3.25	3.78		2.43	5.00	2.57

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Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11be _EHT40 _SU	5 965	-6.42	3.39	1.90	-1.13	5.00	6.13
	6 165	-5.30	3.39		-0.01	5.00	5.01
	6 405	-2.24	3.39		3.05	5.00	1.95
	6 445	-2.71	3.39		2.58	5.00	2.42
	6 485	-2.44	3.39		2.85	5.00	2.15
	6 525	-2.20	3.39		3.09	5.00	1.91
	6 685	-1.94	3.39		3.35	5.00	1.65
	6 845	-3.05	3.39		2.24	5.00	2.76
	6 885	-2.34	3.39		2.95	5.00	2.05
	7 005	-2.96	3.39		2.33	5.00	2.67
	7 085	-2.86	3.39		2.43	5.00	2.57

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE80 _SU	5 985	-7.65	3.90	1.90	-1.85	5.00	6.85
	6 145	-6.59	3.90		-0.79	5.00	5.79
	6 385	-2.95	3.90		2.85	5.00	2.15
	6 465	-3.65	3.90		2.15	5.00	2.85
	6 545	-4.43	3.90		1.37	5.00	3.63
	6 705	-3.27	3.90		2.53	5.00	2.47
	6 865	-5.04	3.90		0.76	5.00	4.24
	6 945	-4.81	3.90		0.99	5.00	4.01
	7 025	-5.73	3.90		0.07	5.00	4.93

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11be _EHT80 _SU	5 985	-6.45	3.50	1.90	-1.05	5.00	6.05
	6 145	-5.56	3.50		-0.16	5.00	5.16
	6 385	-2.61	3.50		2.79	5.00	2.21
	6 465	-3.59	3.50		1.81	5.00	3.19
	6 545	-3.91	3.50		1.49	5.00	3.51
	6 705	-3.09	3.50		2.31	5.00	2.69
	6 865	-4.66	3.50		0.74	5.00	4.26
	6 945	-4.10	3.50		1.30	5.00	3.70
	7 025	-5.16	3.50		0.24	5.00	4.76

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Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11ax _HE160 _SU	6 025	-9.25	3.90	1.90	-3.45	5.00	8.45
	6 185	-10.16	3.90		-4.36	5.00	9.36
	6 345	-8.08	3.90		-2.28	5.00	7.28
	6 505	-8.12	3.90		-2.32	5.00	7.32
	6 665	-6.60	3.90		-0.80	5.00	5.80
	6 825	-8.13	3.90		-2.33	5.00	7.33
	6 985	-8.99	3.90		-3.19	5.00	8.19

Test Mode	Frequency (MHz)	Measured Power Density (dBm)	Duty cycle Factor (dB)	Antenna Gain (dBi)	Result Power Density (dBm)	Limit (dBm)	Margin (dB)
802.11be _EHT160 _SU	6 025	-9.20	3.90	1.90	-3.40	5.00	8.40
	6 185	-10.20	3.90		-4.40	5.00	9.40
	6 345	-7.78	3.90		-1.98	5.00	6.98
	6 505	-7.28	3.90		-1.48	5.00	6.48
	6 665	-6.81	3.90		-1.01	5.00	6.01
	6 825	-7.66	3.90		-1.86	5.00	6.86
	6 985	-8.86	3.90		-3.06	5.00	8.06

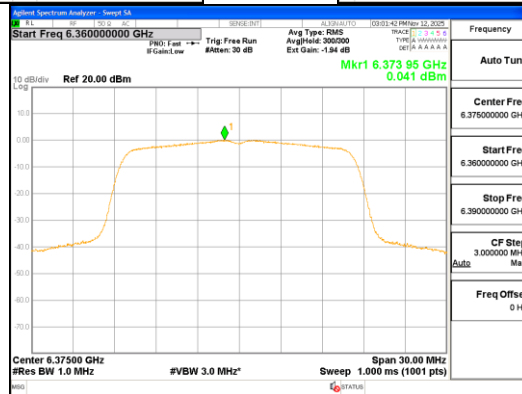
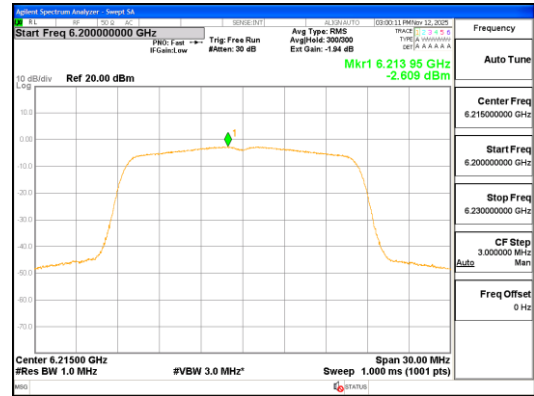
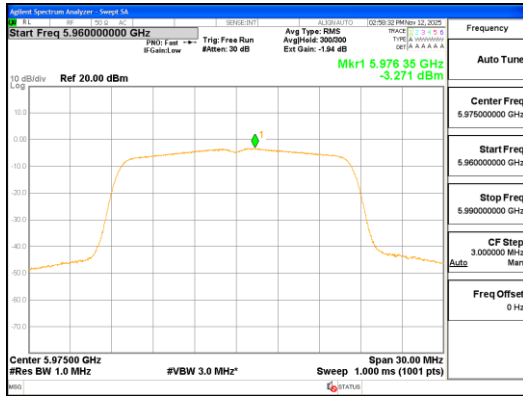
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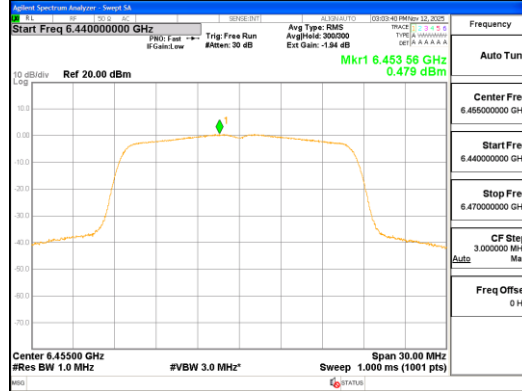
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802.11a_UNII 5



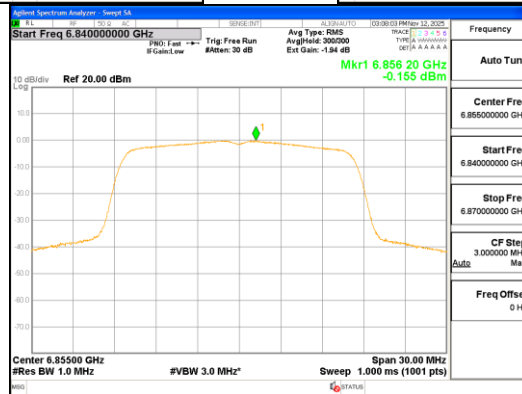
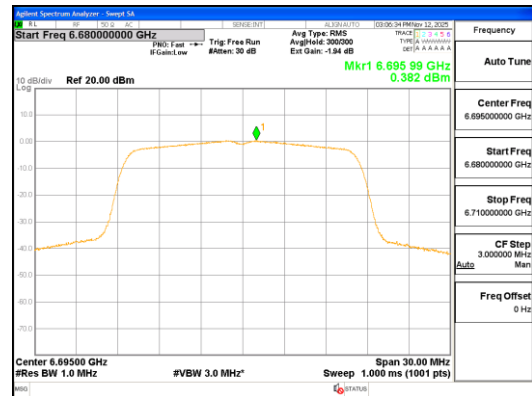
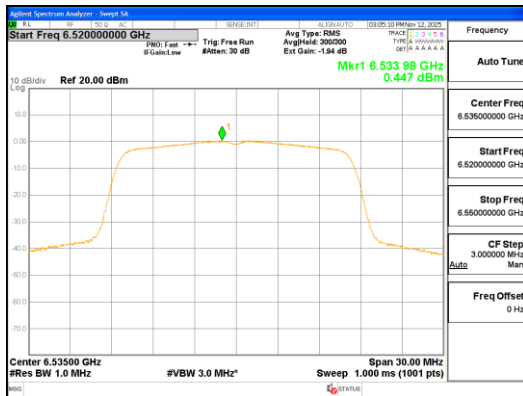
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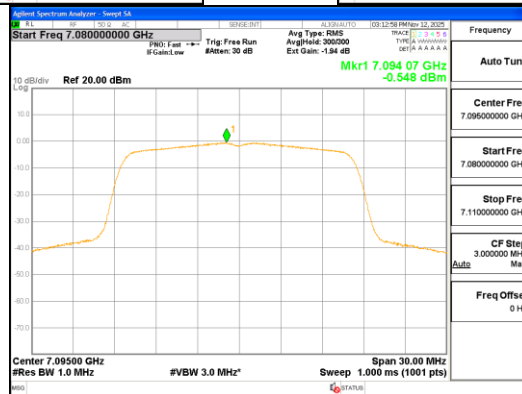
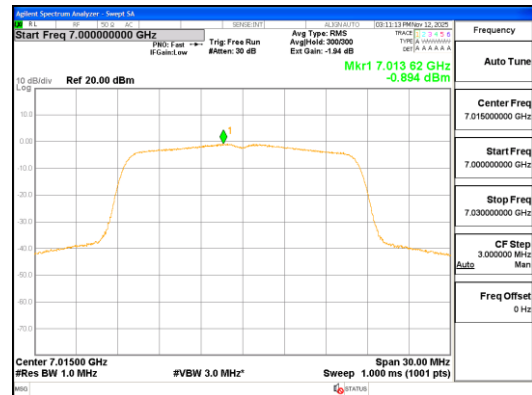
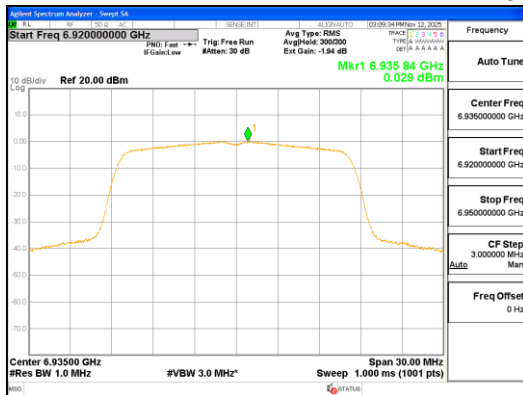
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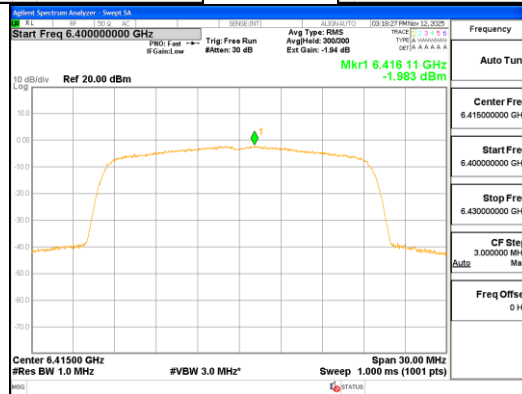
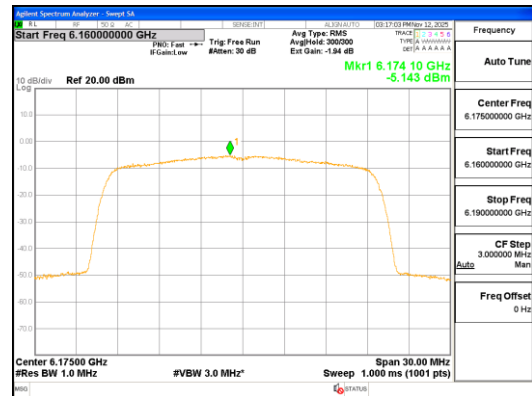
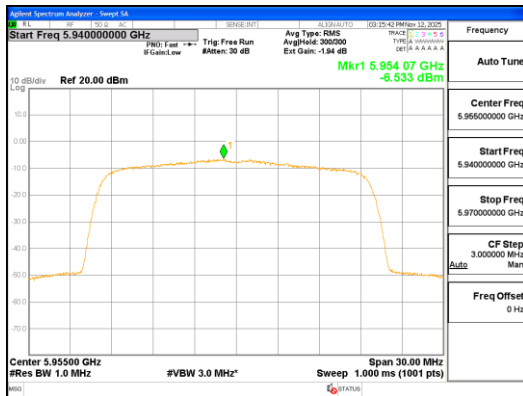
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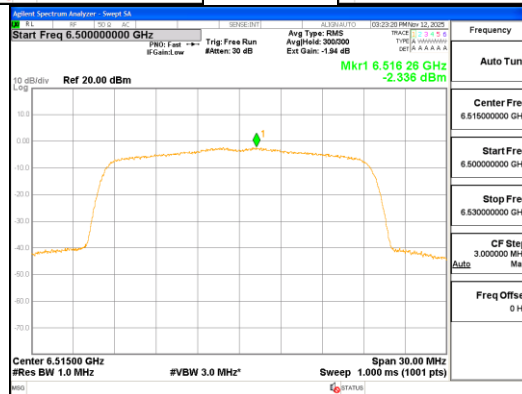
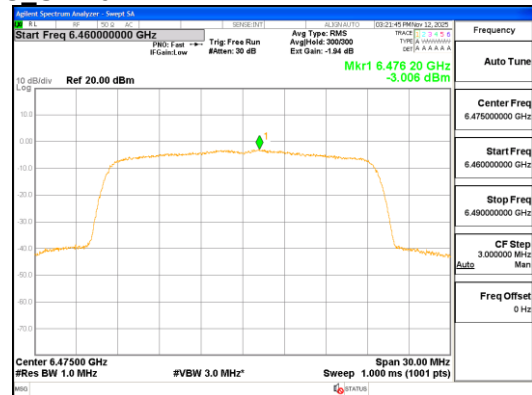
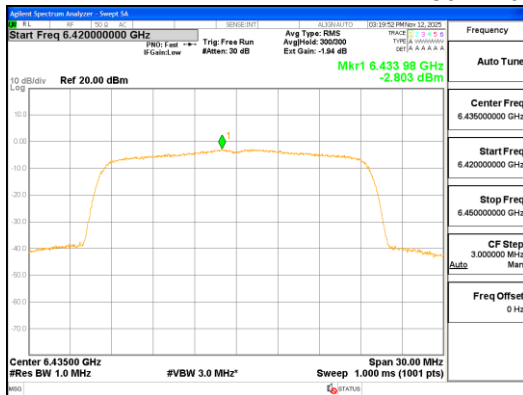
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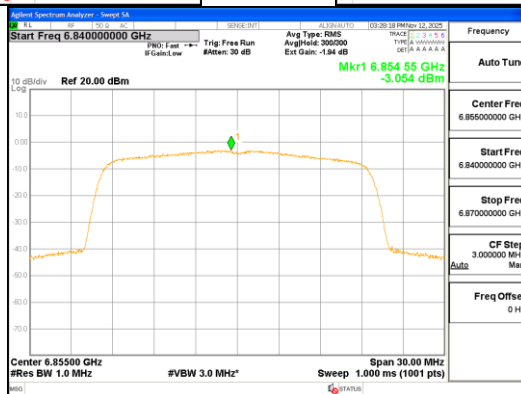
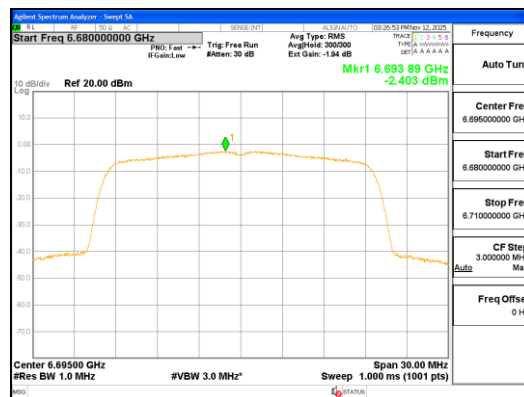
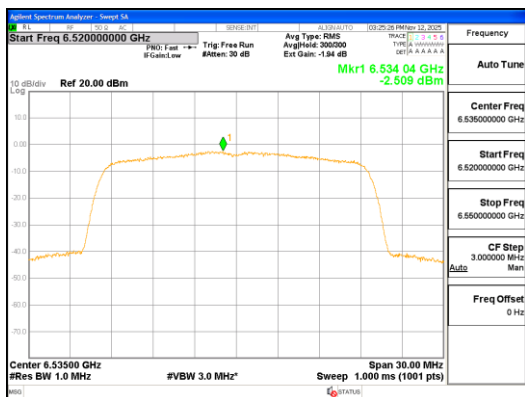
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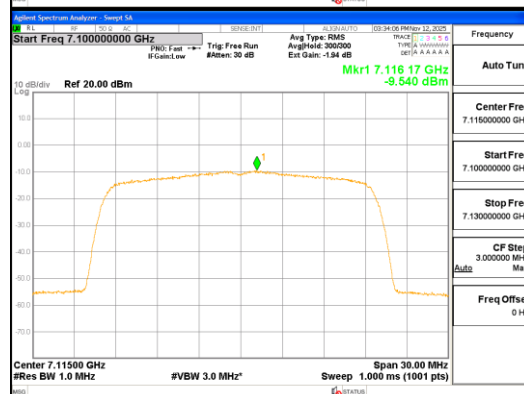
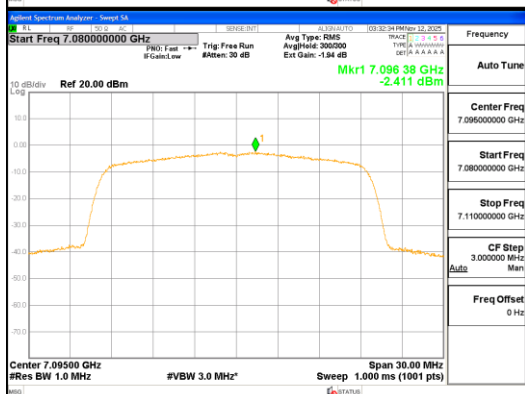
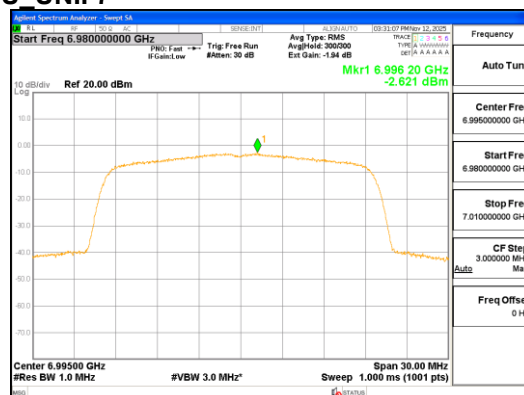
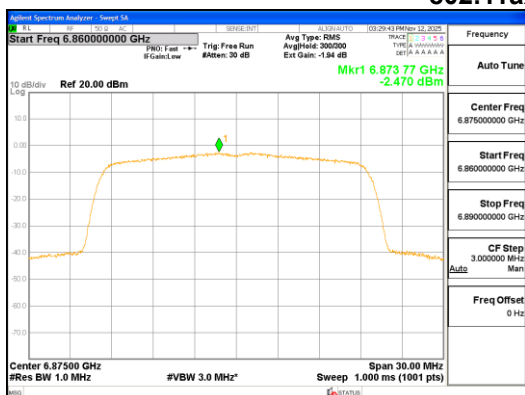
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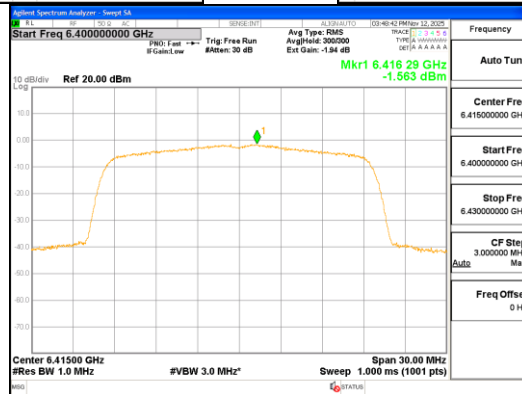
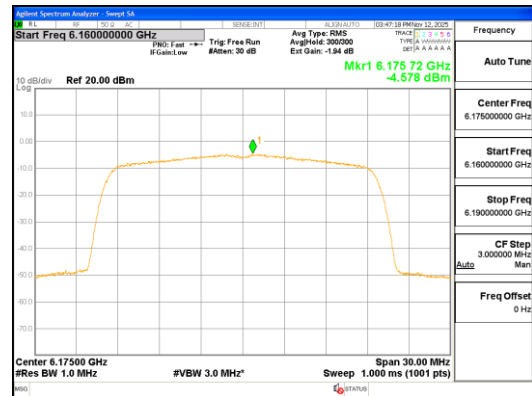
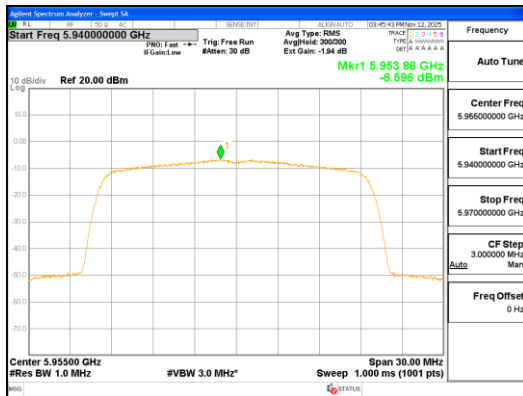
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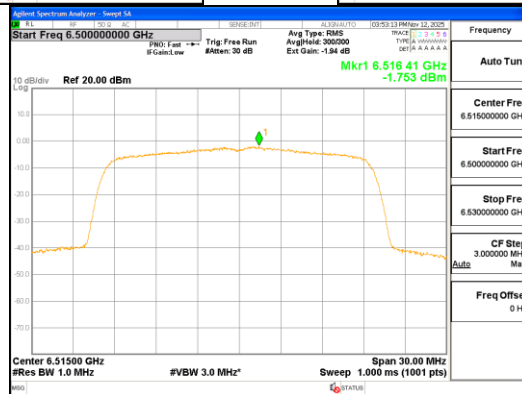
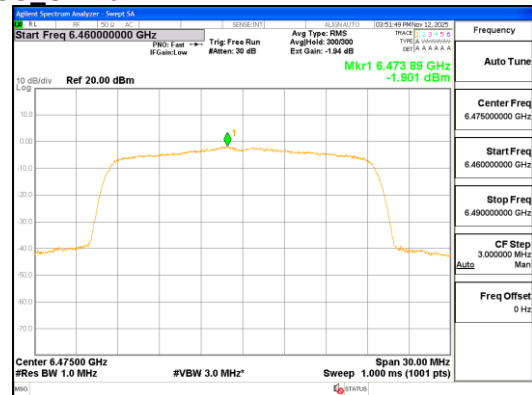
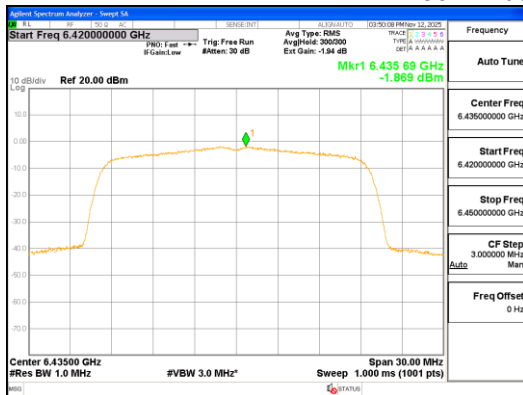
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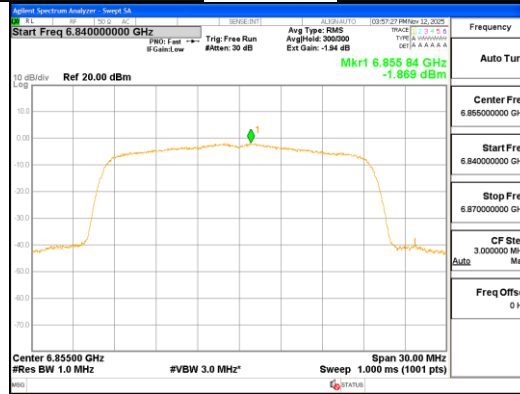
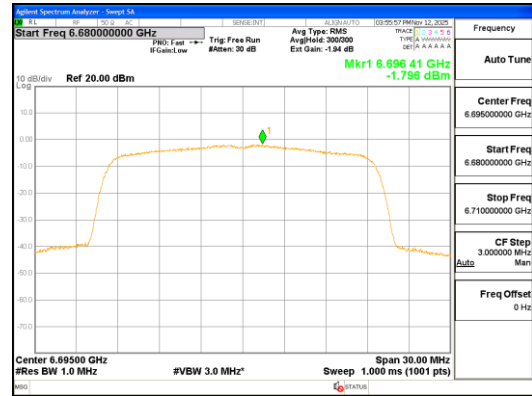
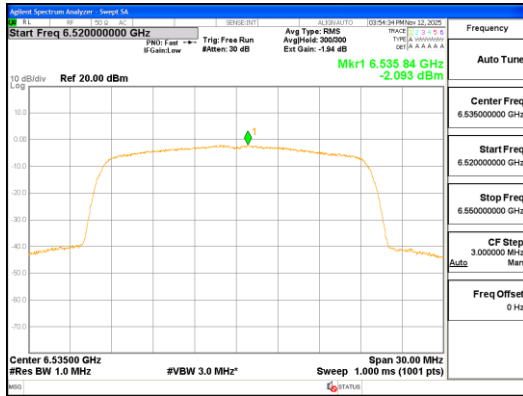
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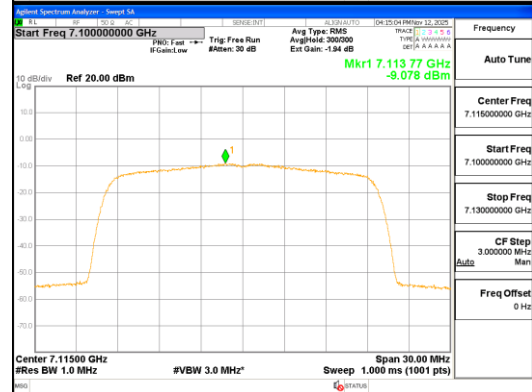
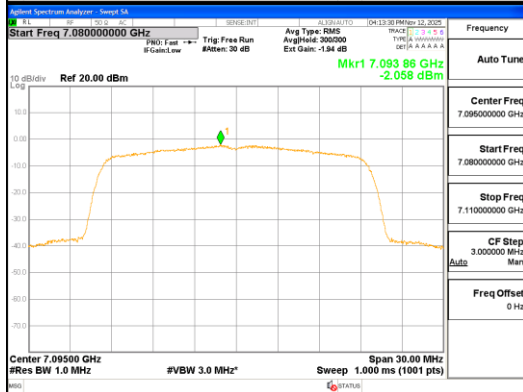
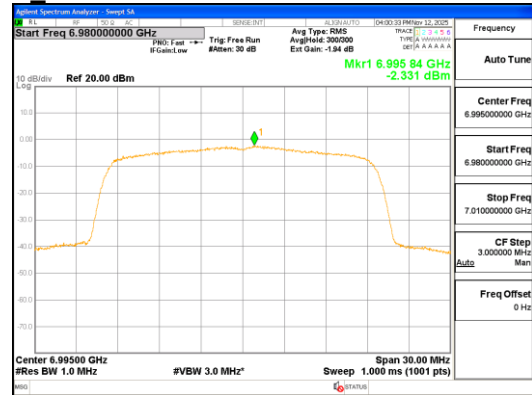
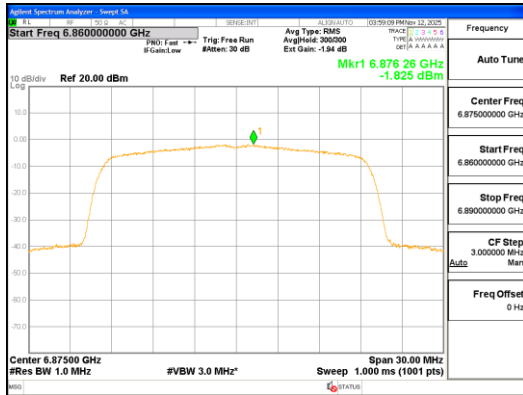
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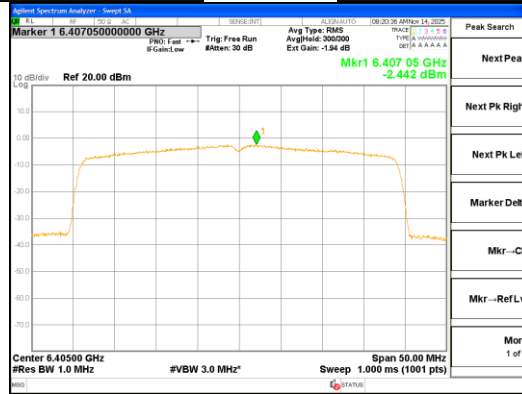
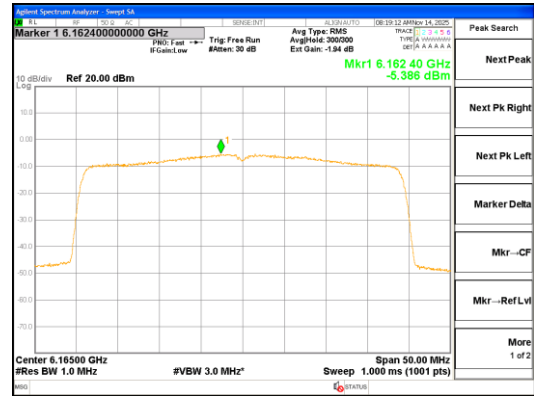
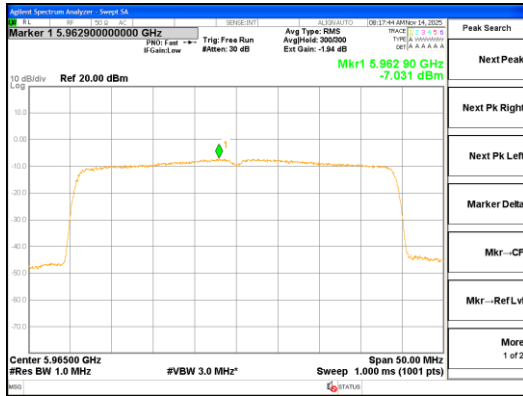
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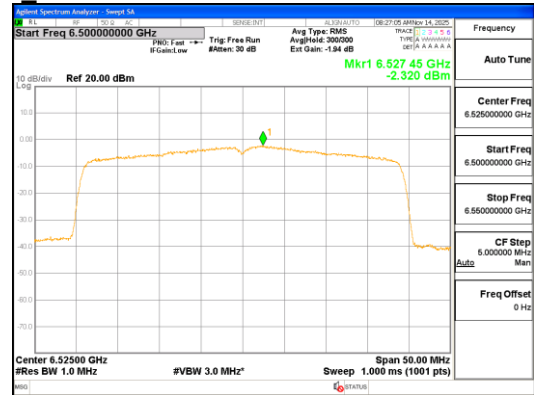
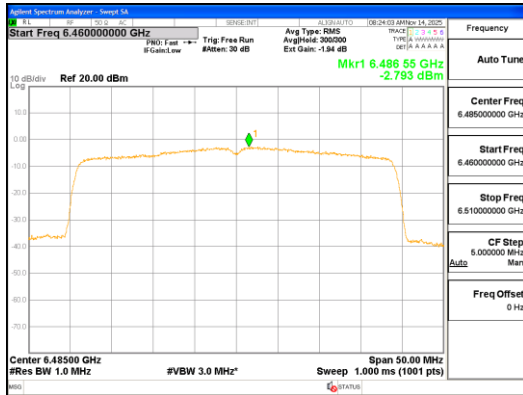
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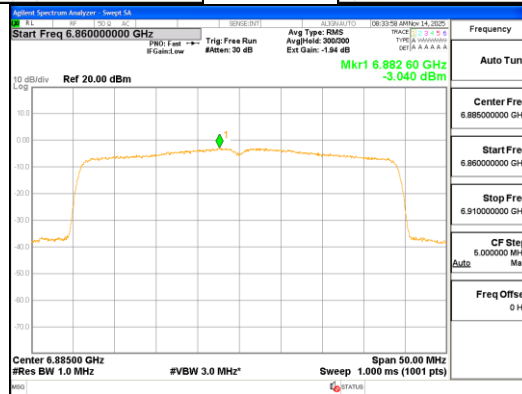
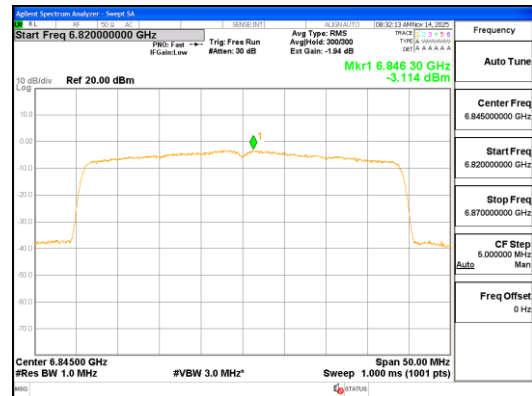
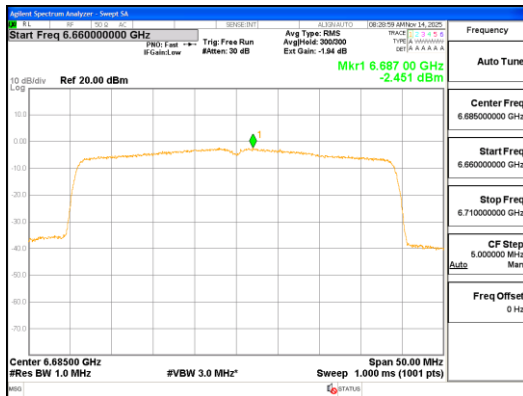
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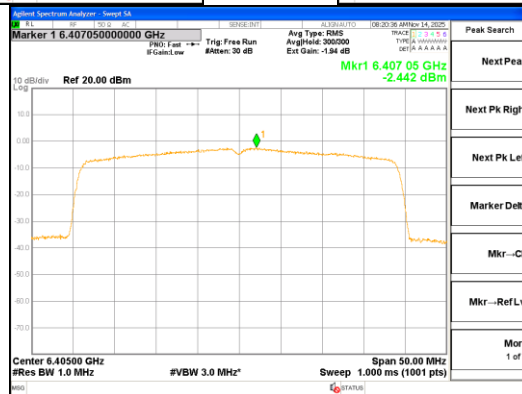
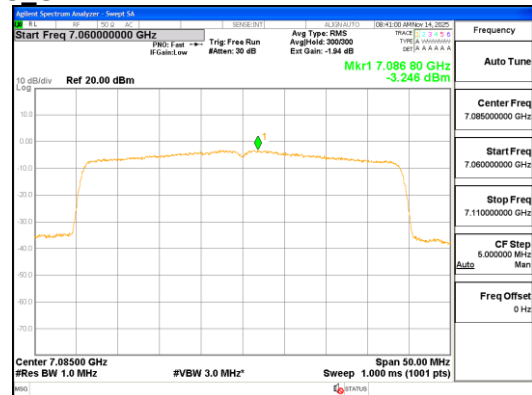
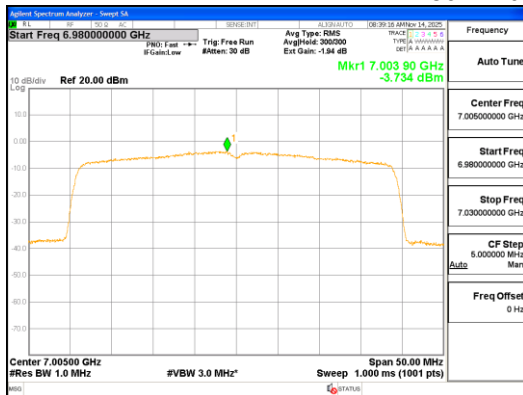
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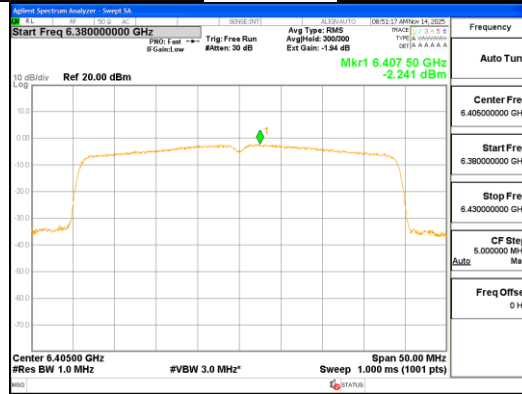
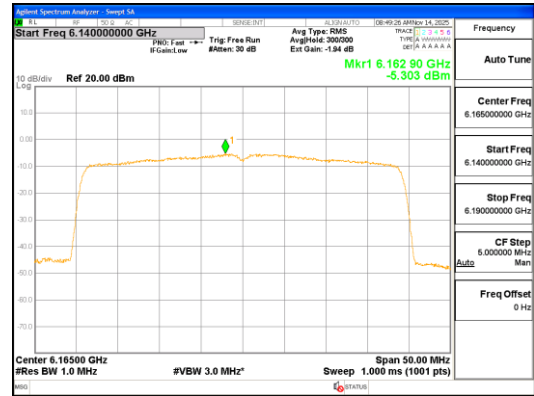
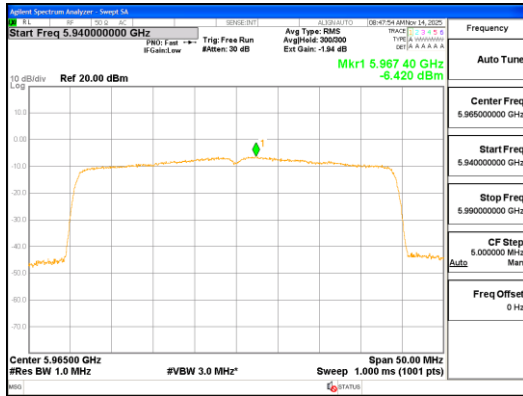
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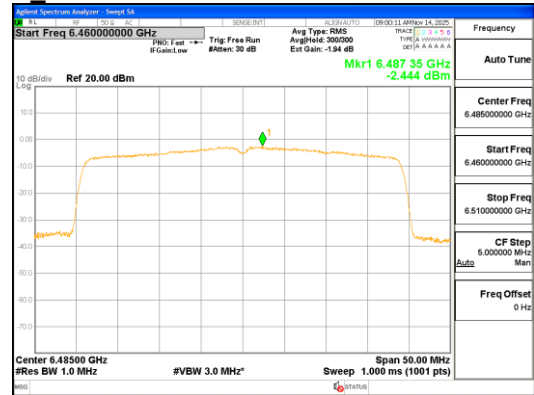
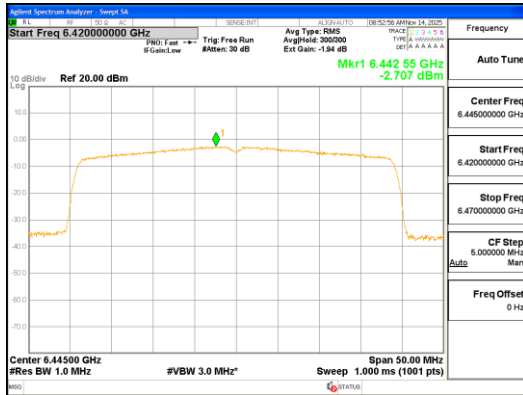
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