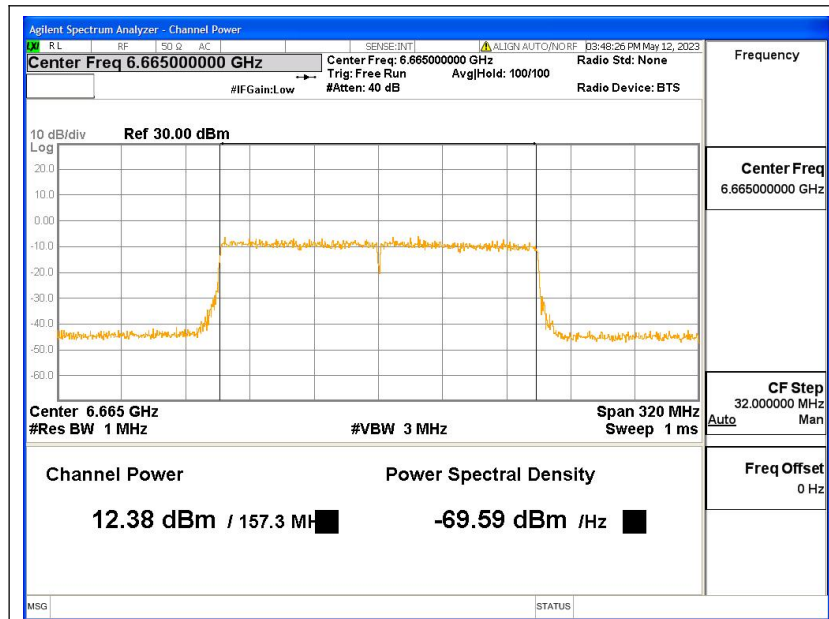
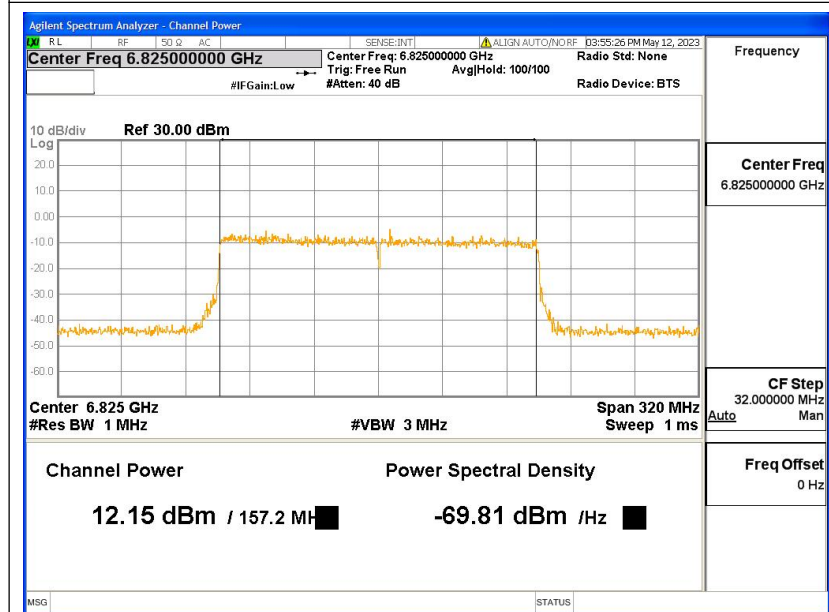




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pic14_Rms



pic8_Rms

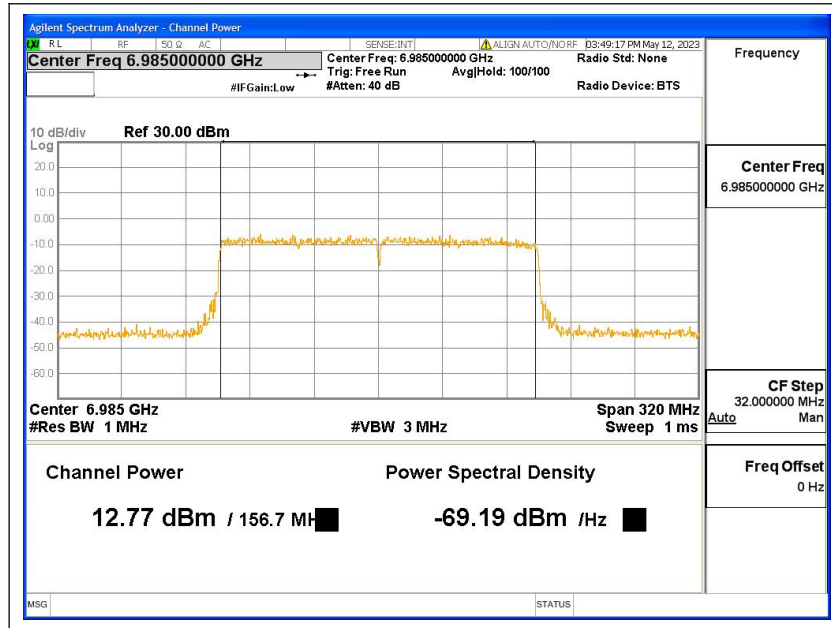
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6.3. Power Spectral Density

Specifications:	FCC Part 15.407 (a)
DUT Serial Number:	S1
Test conditions:	Ambient Temperature:15°C-35°C Relative Humidity:30%-60% Air pressure: 86-106kPa
Test Results:	Pass

Limit Level Construction:

Standard	Limit
FCC Part 15.407 (a)	For client devices operating under the control of an indoor access point in the 5.925–7.125 GHz bands, the maximum power spectral density must not exceed –1 dBm e.i.r.p. in any 1-megahertz band, and the maximum e.i.r.p. over the frequency band of operation must not exceed 24 dBm

Note: Directional gain according to section 3.2 of this report

Band	802.11ax Directional gain (dBi)
UNII 5	7.00
UNII 6	6.30
UNII 7	6.96
UNII 8	6.83

Measurement Uncertainty:

Measurement Uncertainty	±1.0dBm/MHz
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Test Procedure

The measurement is according to ANSI C63.10 clause 12.5

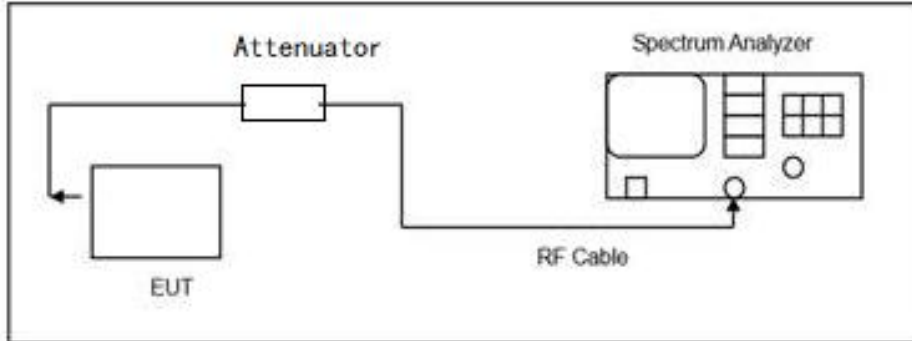
- a) Create an average power spectrum for the EUT operating mode being tested by following the instructions in 12.3.2 for measuring maximum conducted output power using a spectrum analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their respective alternatives) and apply it up to, but not including, the step labeled, “Compute power...” (This procedure is required even if the maximum conducted output power measurement was performed using the power meter method PM.)
- b) Use the peak search function on the instrument to find the peak of the spectrum.
- c) Make the following adjustments to the peak value of the spectrum, if applicable:
 - 1) If method SA-2 or SA-2A was used, then add $[10 \log (1 / D)]$, where D is the duty cycle, to the peak of the spectrum.
 - 2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7, add 1 dB to the final result to compensate for the difference between linear averaging and power averaging.

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d) The result is the PPSD.

Test block diagram:



**Measurement Results:****Chain.0**

Mode	Channel	Conducted		Conclusion
		Power Spectral Density(dBm/MHz)		
802.11ax-HE20	1	Fig.1	-13.67	PASS
	45	Fig.2	-13.03	PASS
	93	Fig.3	-12.17	PASS
	97	Fig.4	-11.24	PASS
	105	Fig.5	-12.27	PASS
	113	Fig.6	-12.87	PASS
	117	Fig.7	-12.90	PASS
	149	Fig.8	-12.71	PASS
	181	Fig.9	-13.06	PASS
	185	Fig.10	-12.36	PASS
	209	Fig.11	-12.01	PASS
	233	Fig.12	-12.31	PASS
802.11ax-HE40	3	Fig.1	-14.03	PASS
	43	Fig.2	-13.50	PASS
	91	Fig.3	-12.16	PASS
	99	Fig.4	-12.24	PASS
	107	Fig.5	-12.93	PASS
	115	Fig.6	-13.42	PASS
	123	Fig.7	-14.02	PASS
	147	Fig.8	-13.50	PASS
	179	Fig.9	-13.52	PASS
	187	Fig.10	-13.24	PASS
	203	Fig.11	-13.23	PASS
	227	Fig.12	-12.53	PASS
802.11ax-HE80	7	Fig.1	-12.60	PASS
	39	Fig.2	-12.22	PASS
	87	Fig.3	-12.53	PASS
	103	Fig.4	-11.69	PASS
	119	Fig.5	-12.46	PASS
	151	Fig.6	-12.41	PASS
	183	Fig.7	-11.56	PASS
	199	Fig.8	-11.99	PASS
215	Fig.9	-11.44	PASS	

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802.11ax-HE160	15	Fig.1	-15.13	PASS
	47	Fig.2	-16.30	PASS
	79	Fig.3	-15.95	PASS
	111	Fig.4	-16.50	PASS
	143	Fig.5	-16.51	PASS
	175	Fig.6	-16.45	PASS
	207	Fig.7	-15.63	PASS

Chain.1

Mode	Channel	Conducted		Conclusion
		Power Spectral Density(dBm/MHz)		
802.11ax-HE20	1	Fig.1	-13.30	PASS
	45	Fig.2	-13.15	PASS
	93	Fig.3	-12.44	PASS
	97	Fig.4	-12.78	PASS
	105	Fig.5	-13.52	PASS
	113	Fig.6	-14.24	PASS
	117	Fig.7	-14.19	PASS
	149	Fig.8	-13.50	PASS
	181	Fig.9	-14.68	PASS
	185	Fig.10	-13.91	PASS
	209	Fig.11	-13.35	PASS
	233	Fig.12	-13.73	PASS
802.11ax-HE40	3	Fig.1	-14.55	PASS
	43	Fig.2	-14.10	PASS
	91	Fig.3	-13.28	PASS
	99	Fig.4	-13.72	PASS
	107	Fig.5	-14.62	PASS
	115	Fig.6	-15.19	PASS
	123	Fig.7	-15.01	PASS
	147	Fig.8	-14.64	PASS
	179	Fig.9	-15.30	PASS
	187	Fig.10	-14.93	PASS
	203	Fig.11	-14.94	PASS
	227	Fig.12	-13.95	PASS
802.11ax-HE80	7	Fig.1	-12.99	PASS
	39	Fig.2	-12.87	PASS
	87	Fig.3	-12.42	PASS

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	103	Fig.4	-12.71	PASS
	119	Fig.5	-13.56	PASS
	151	Fig.6	-13.34	PASS
	183	Fig.7	-13.27	PASS
	199	Fig.8	-13.60	PASS
	215	Fig.9	-13.00	PASS
802.11ax-HE160	15	Fig.1	-16.11	PASS
	47	Fig.2	-16.91	PASS
	79	Fig.3	-16.81	PASS
	111	Fig.4	-17.77	PASS
	143	Fig.5	-17.39	PASS
	175	Fig.6	-18.01	PASS
	207	Fig.7	-16.80	PASS

MIMO

Mode	Channel	Conducted			DG		EIRP Power Spectral Density(dBm/MHz)	Conclusion
		Power Spectral Density(dBm/MHz)			(dBi)			
		Chain0	Chain1	SUM	Chain0	Chain1		
802.11ax-HE20	1	-13.67	-13.30	-10.47	7.00		-3.47	PASS
	45	-13.03	-13.15	-10.08			-3.08	PASS
	93	-12.17	-12.44	-9.29			-2.29	PASS
	97	-11.24	-12.78	-8.93			-1.93	PASS
	105	-12.27	-13.52	-9.84			-2.84	PASS
	113	-12.87	-14.24	-10.49			-3.49	PASS
	117	-12.90	-14.19	-10.49			-3.49	PASS
	149	-12.71	-13.50	-10.08			-3.08	PASS
	181	-13.06	-14.68	-10.78			-3.78	PASS
	185	-12.36	-13.91	-10.06			-3.06	PASS
	209	-12.01	-13.35	-9.62			-2.62	PASS
233	-12.31	-13.73	-9.95	-2.95	PASS			
802.11ax-HE40	3	-14.03	-14.55	-11.27	6.30		-4.97	PASS
	43	-13.50	-14.10	-10.78			-4.48	PASS
	91	-12.16	-13.28	-9.67			-3.37	PASS
	99	-12.24	-13.72	-9.91			-3.61	PASS
	107	-12.93	-14.62	-10.68			-4.38	PASS
	115	-13.42	-15.19	-11.21			-4.91	PASS
	123	-14.02	-15.01	-11.48			-5.18	PASS
	147	-13.50	-14.64	-11.02			-4.72	PASS
179	-13.52	-15.30	-11.31	-5.01	PASS			

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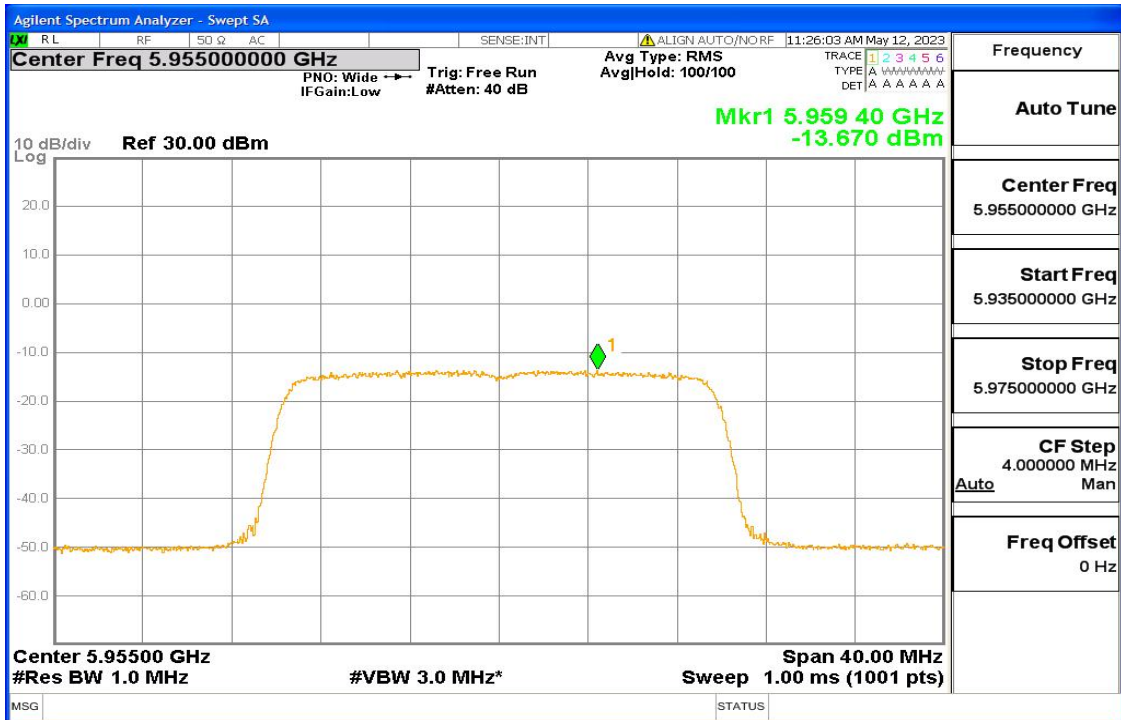
	187	-13.24	-14.93	-10.99		-4.69	PASS
	203	-13.23	-14.94	-10.99		-4.69	PASS
	227	-12.53	-13.95	-10.17		-3.87	PASS
802.11ax-HE80	7	-12.60	-12.99	-9.78	6.96	-2.82	PASS
	39	-12.22	-12.87	-9.52		-2.56	PASS
	87	-12.53	-12.42	-9.46		-2.50	PASS
	103	-11.69	-12.71	-9.16		-2.20	PASS
	119	-12.46	-13.56	-9.96		-3.00	PASS
	151	-12.41	-13.34	-9.84		-2.88	PASS
	183	-11.56	-13.27	-9.32		-2.36	PASS
	199	-11.99	-13.60	-9.71		-2.75	PASS
	215	-11.44	-13.00	-9.14		-2.18	PASS
	802.11ax-HE160	15	-15.13	-16.11		-12.58	6.83
47		-16.30	-16.91	-13.58	-6.75	PASS	
79		-15.95	-16.81	-13.35	-6.52	PASS	
111		-16.50	-17.77	-14.08	-7.25	PASS	
143		-16.51	-17.39	-13.92	-7.09	PASS	
175		-16.45	-18.01	-14.15	-7.32	PASS	
207		-15.63	-16.80	-13.17	-6.34	PASS	

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Test figure as below:

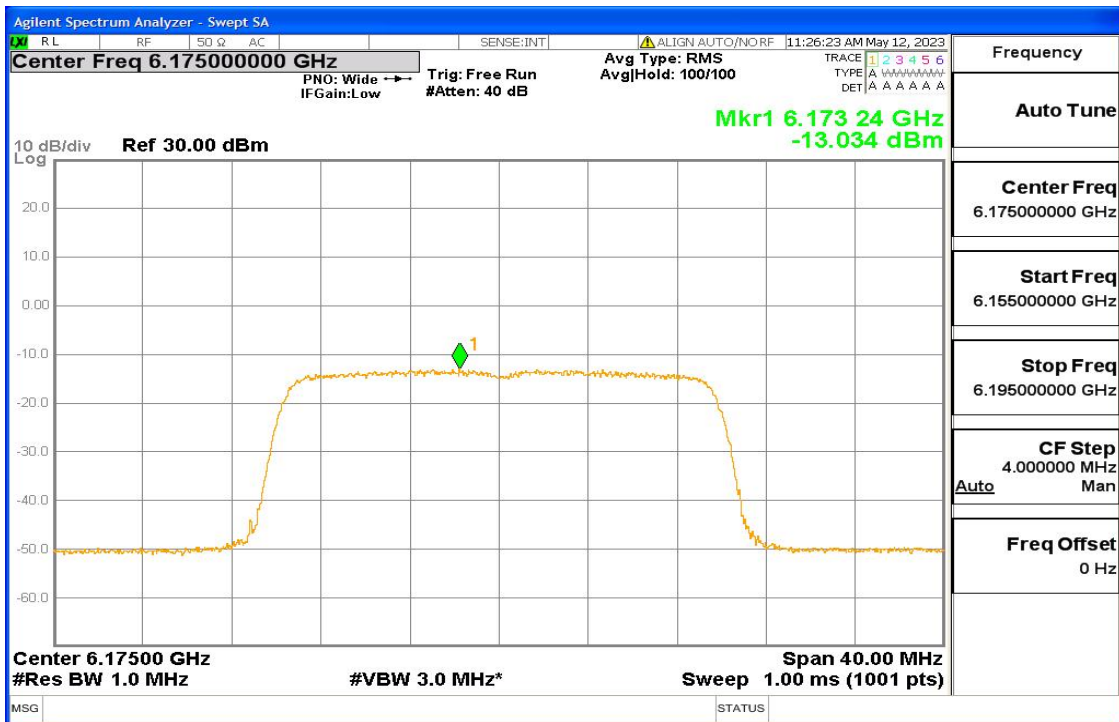
Chain.0



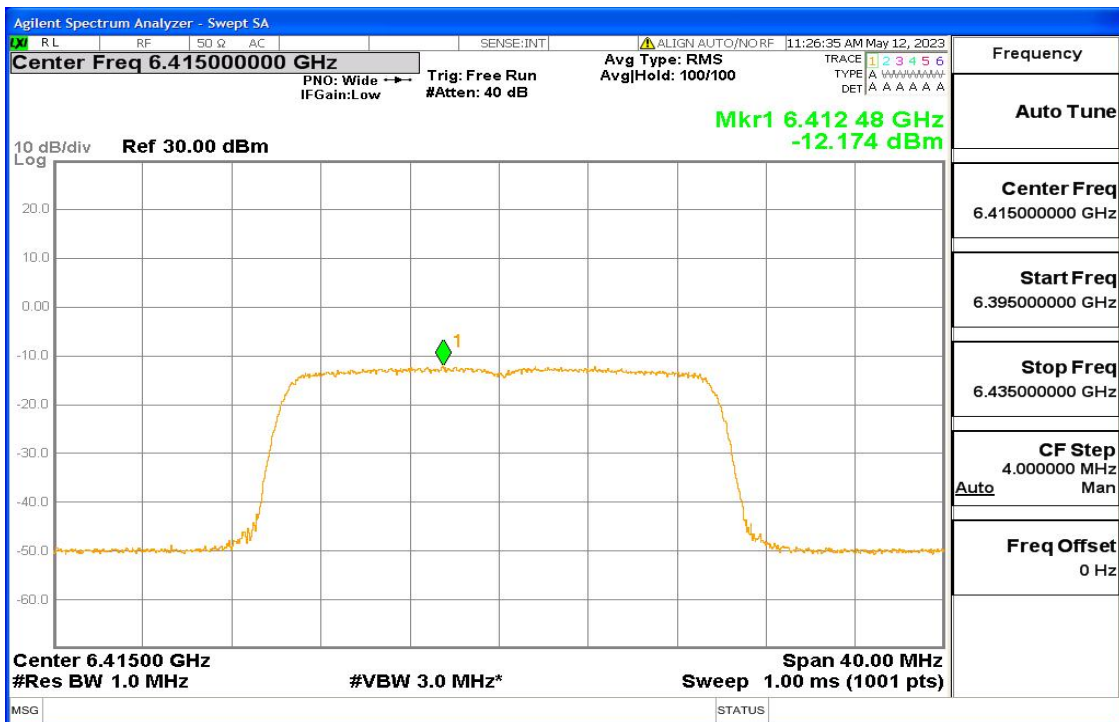
11ax-HE20 Fig1

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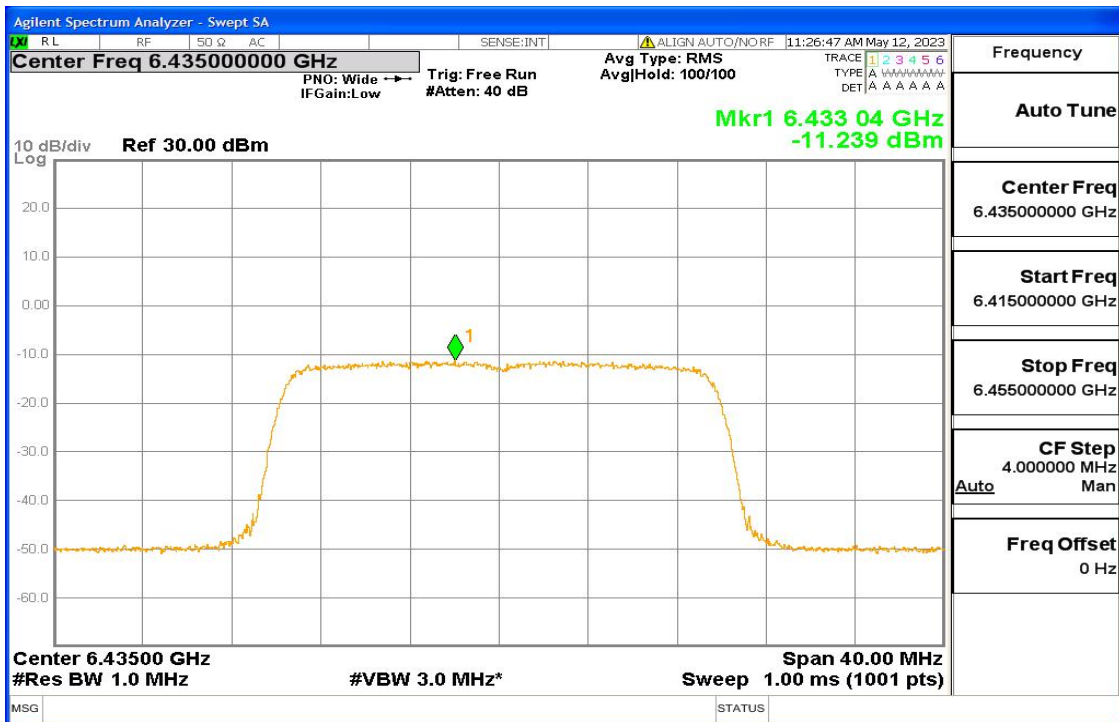
11ax-HE20 Fig2



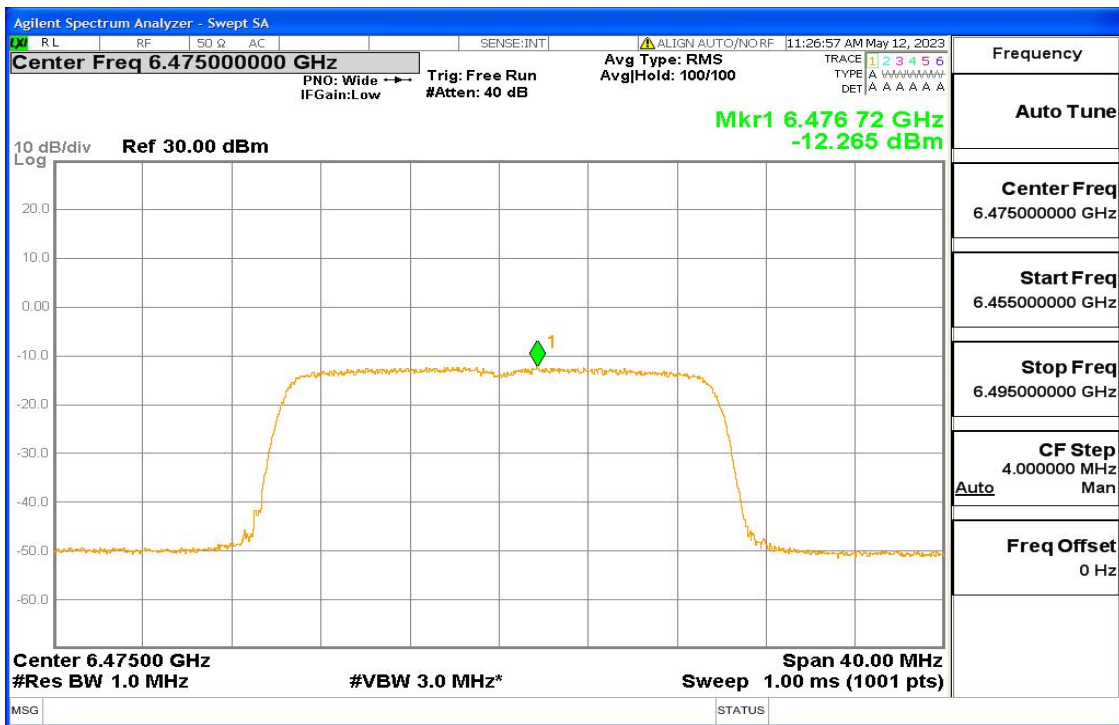
11ax-HE20 Fig3

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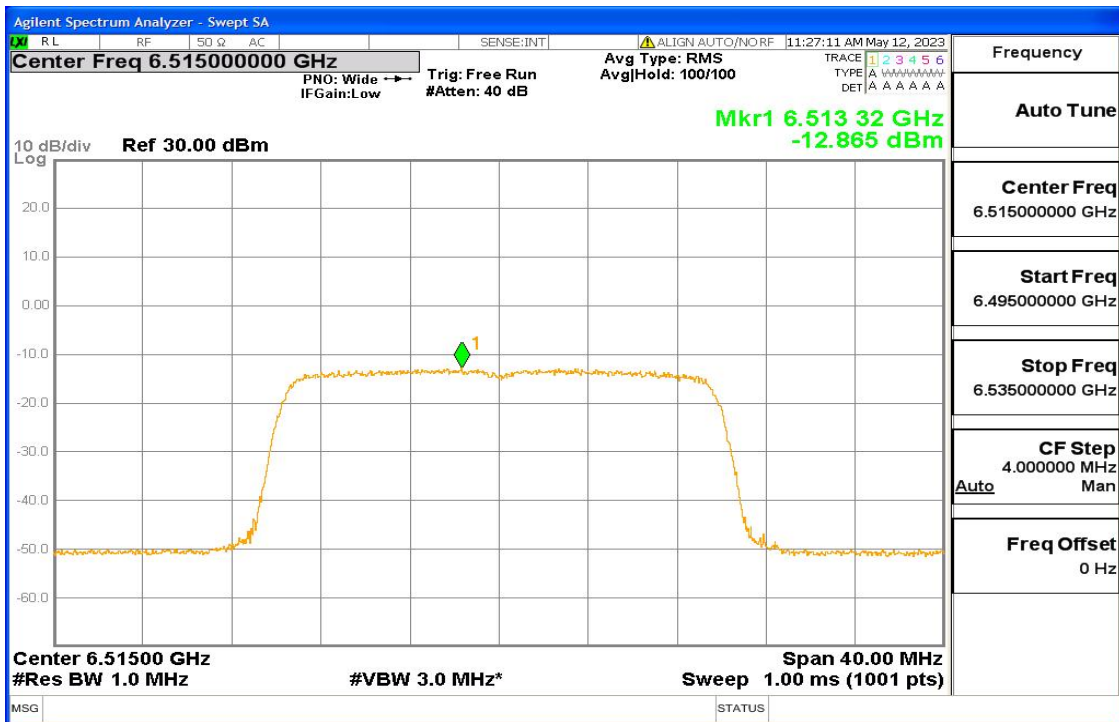
11ax-HE20 Fig4



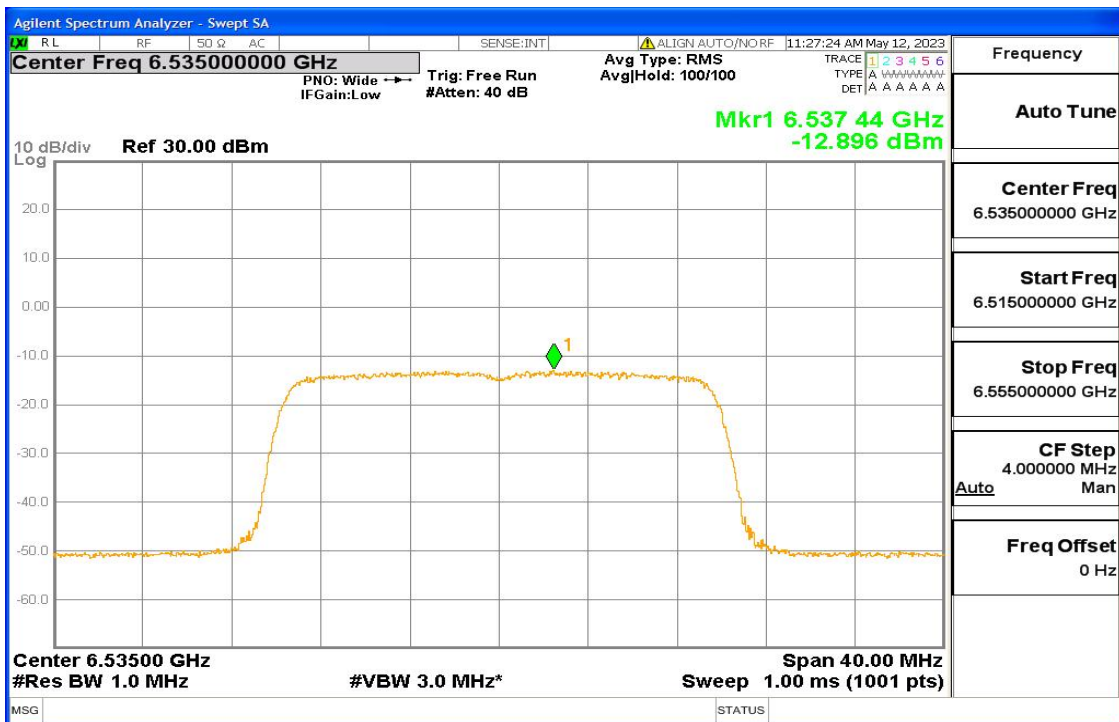
11ax-HE20 Fig5

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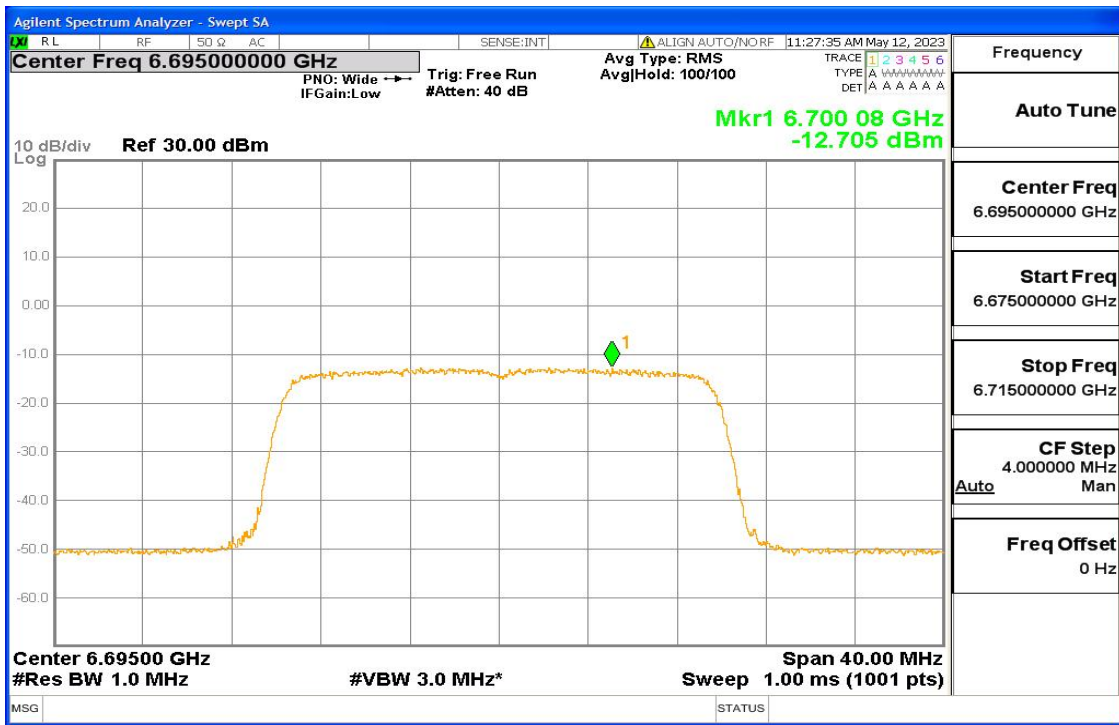
11ax-HE20 Fig6



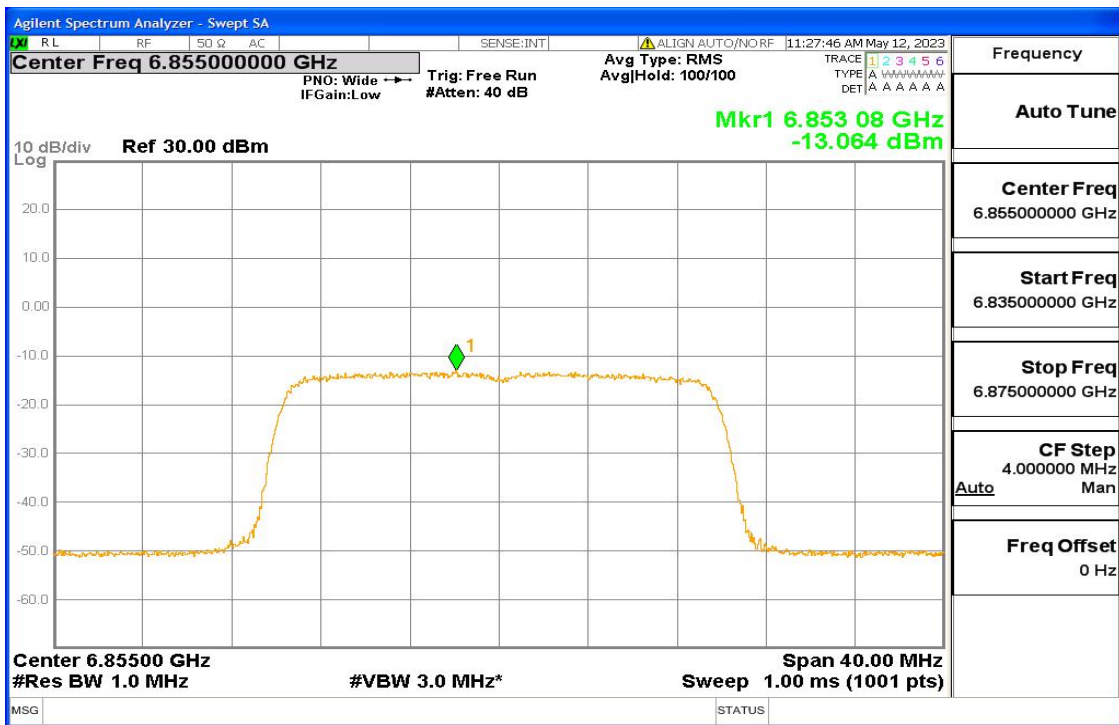
11ax-HE20 Fig7

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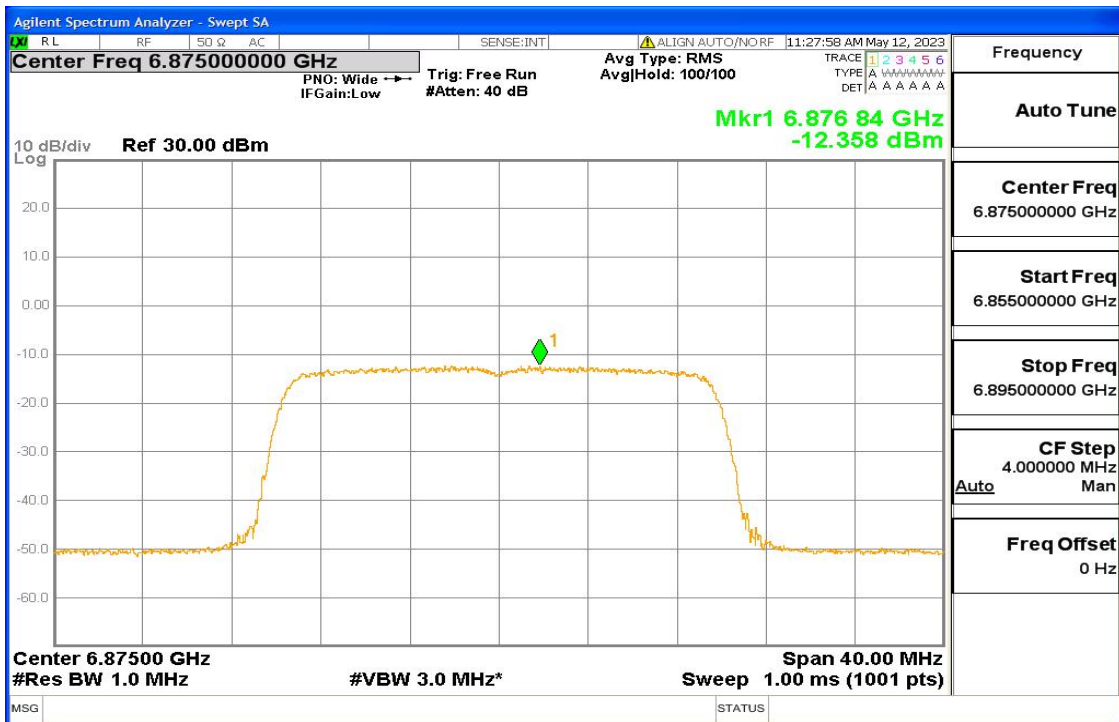
11ax-HE20 Fig8



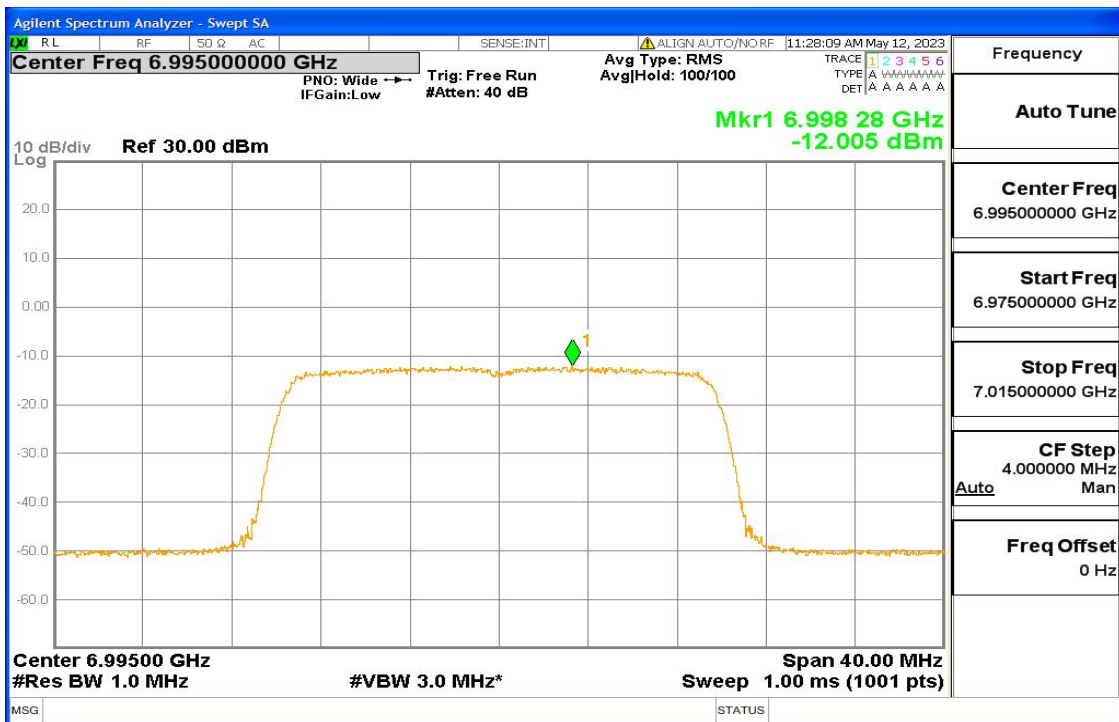
11ax-HE20 Fig9

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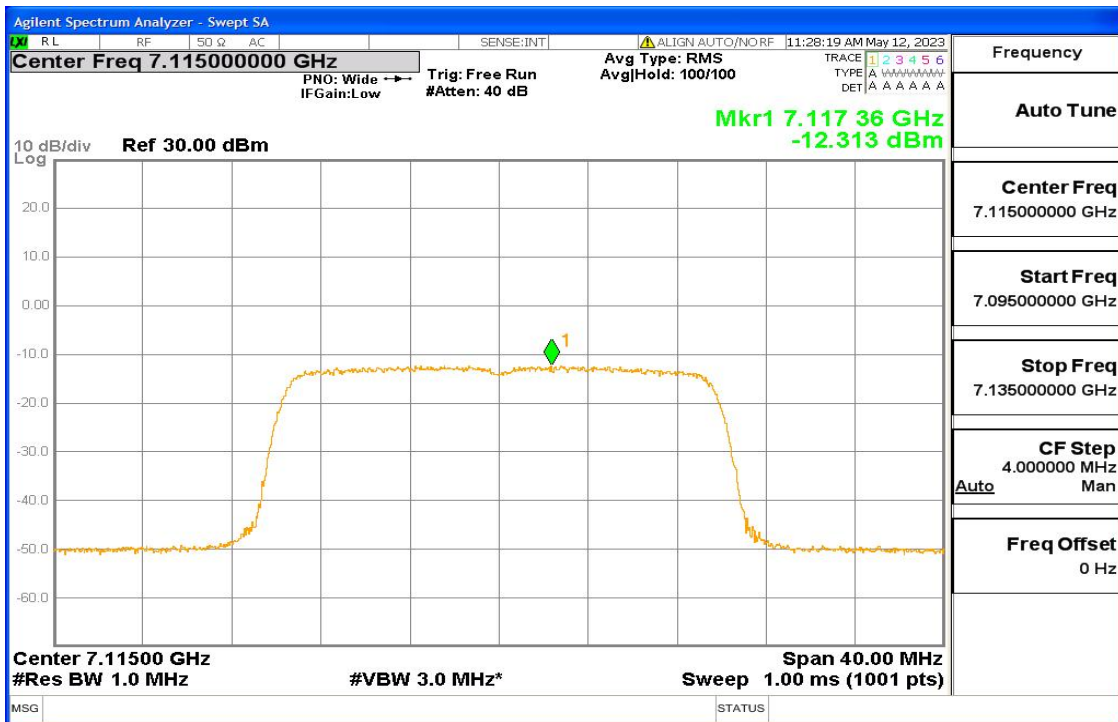
11ax-HE20 Fig10



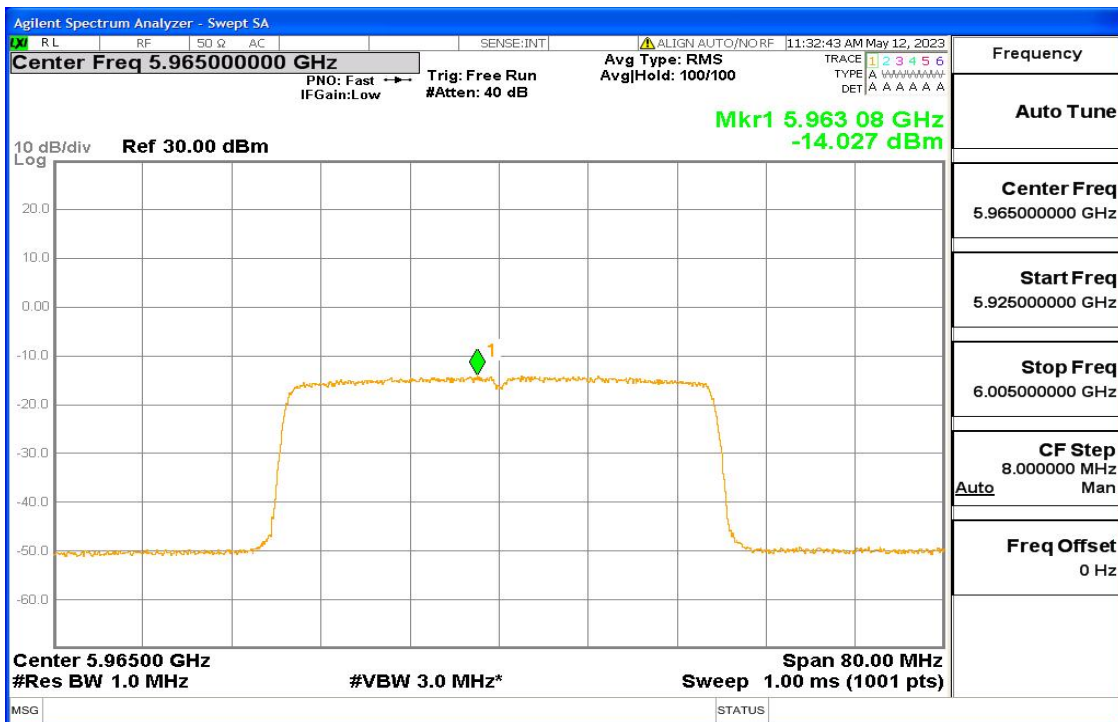
11ax-HE20 Fig11

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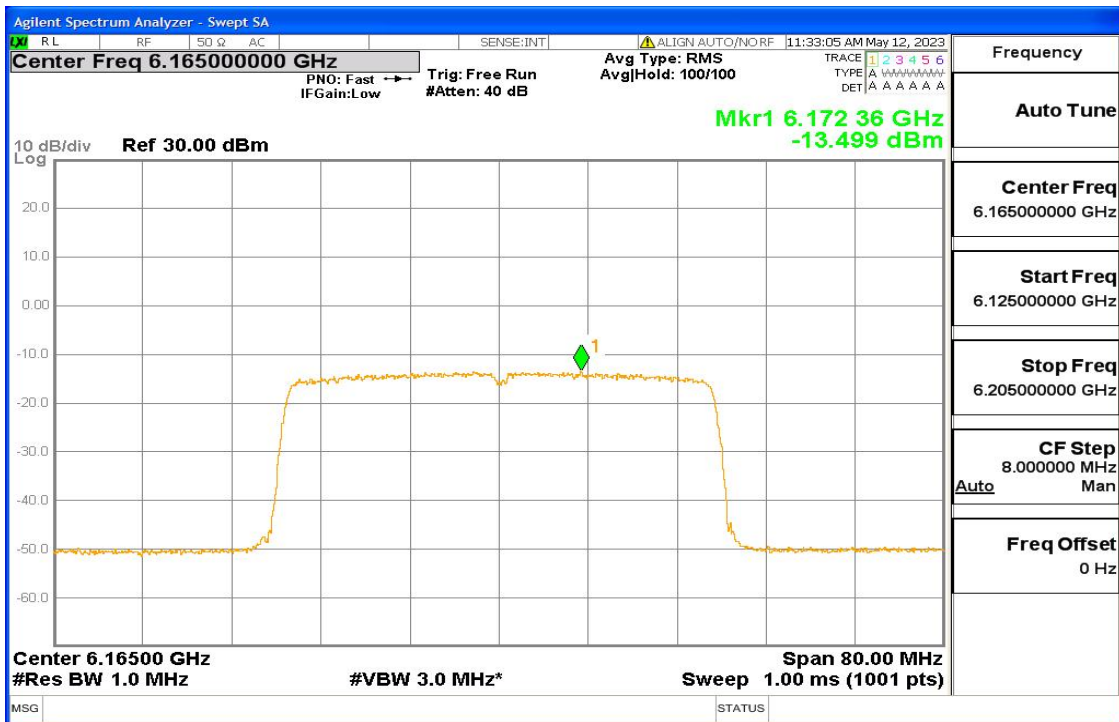
11ax-HE20 Fig12



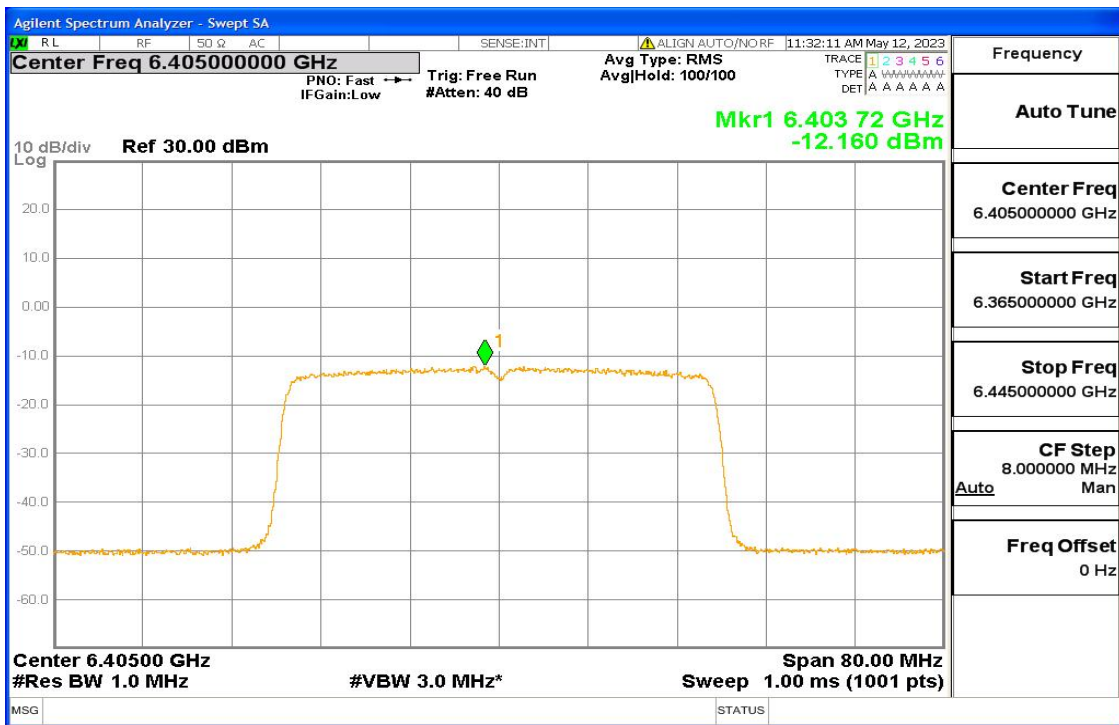
11ax-HE40 Fig1

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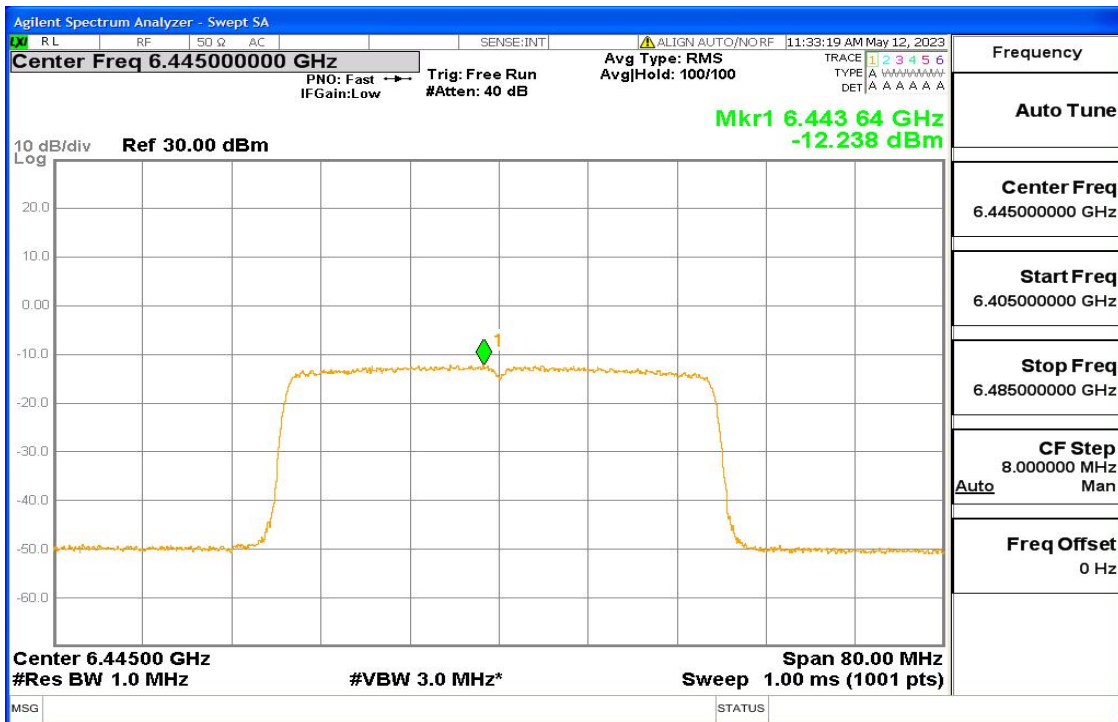
11ax-HE40 Fig2



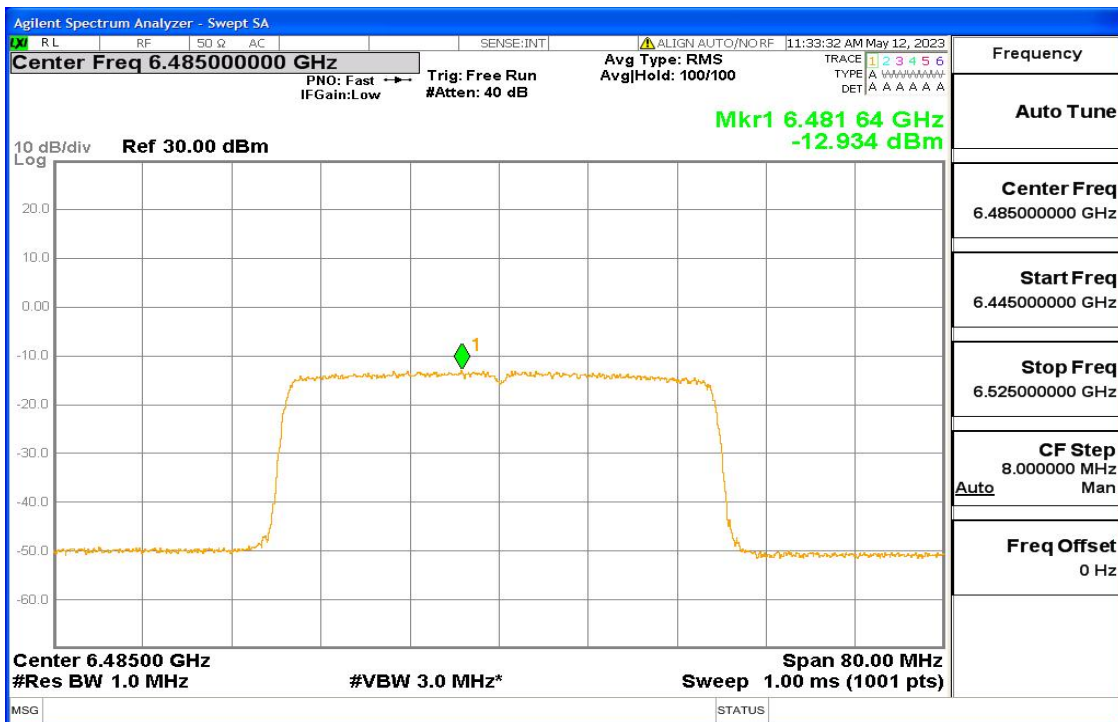
11ax-HE40 Fig3

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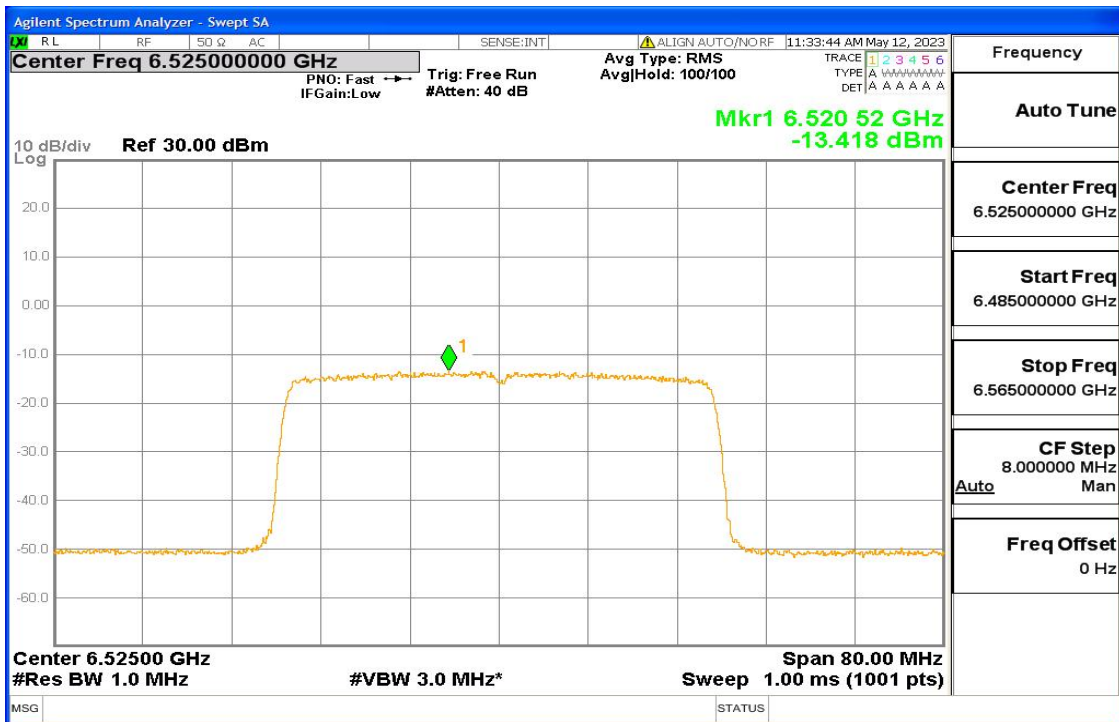
11ax-HE40 Fig4



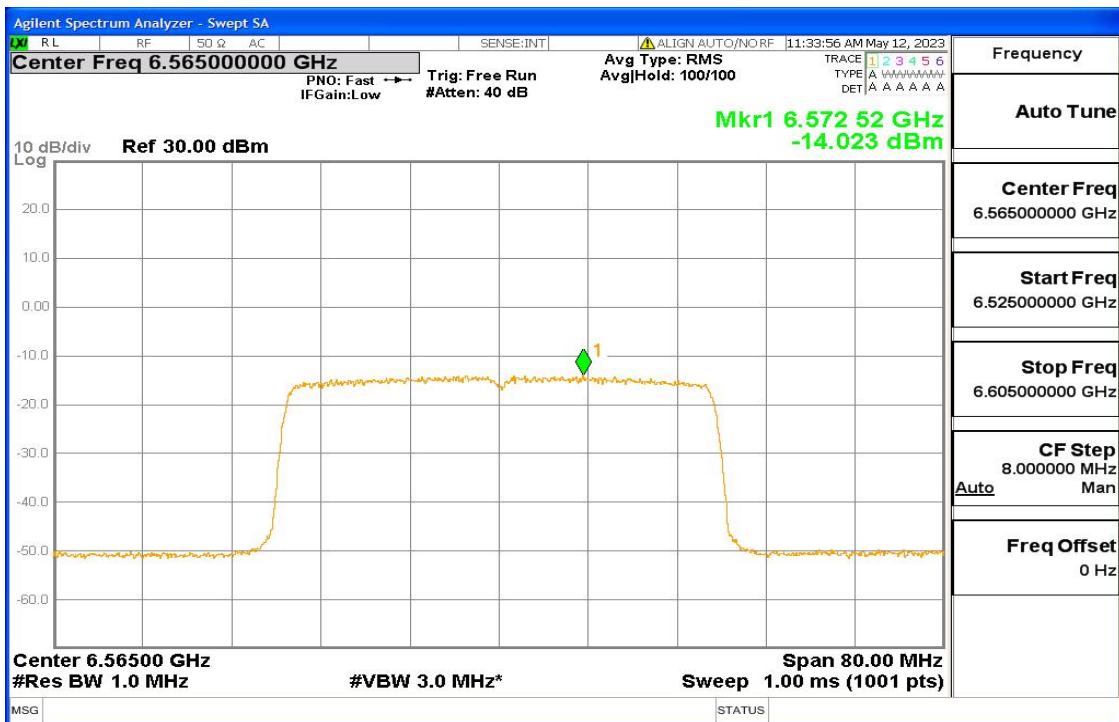
11ax-HE40 Fig5

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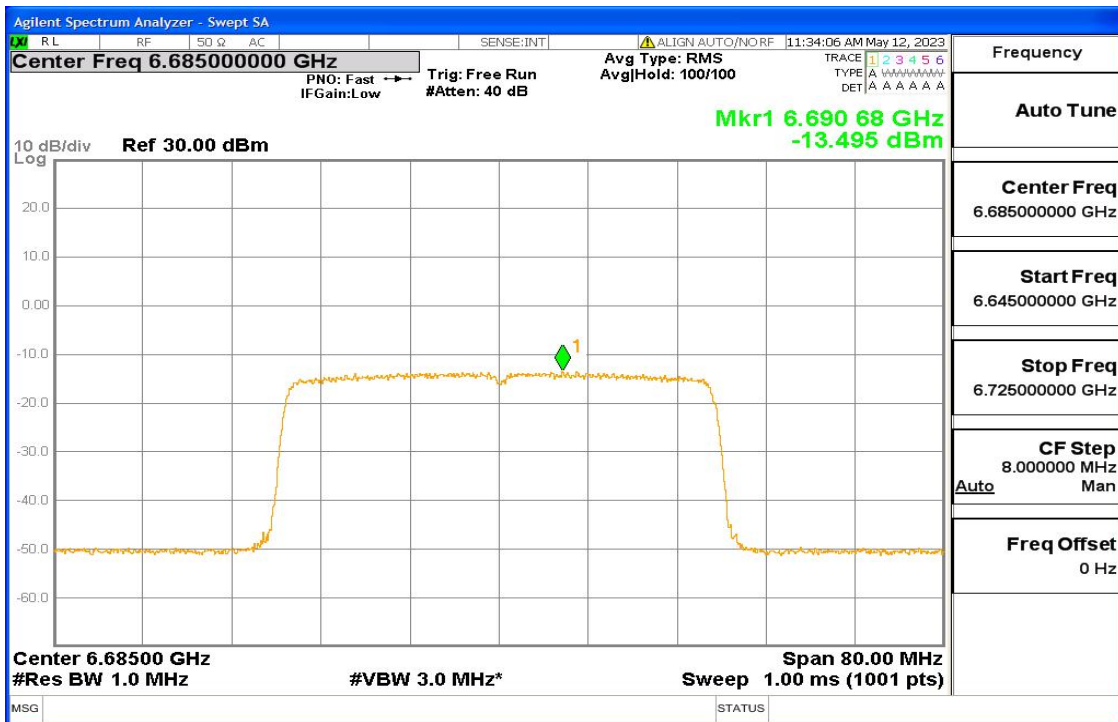
11ax-HE40 Fig6



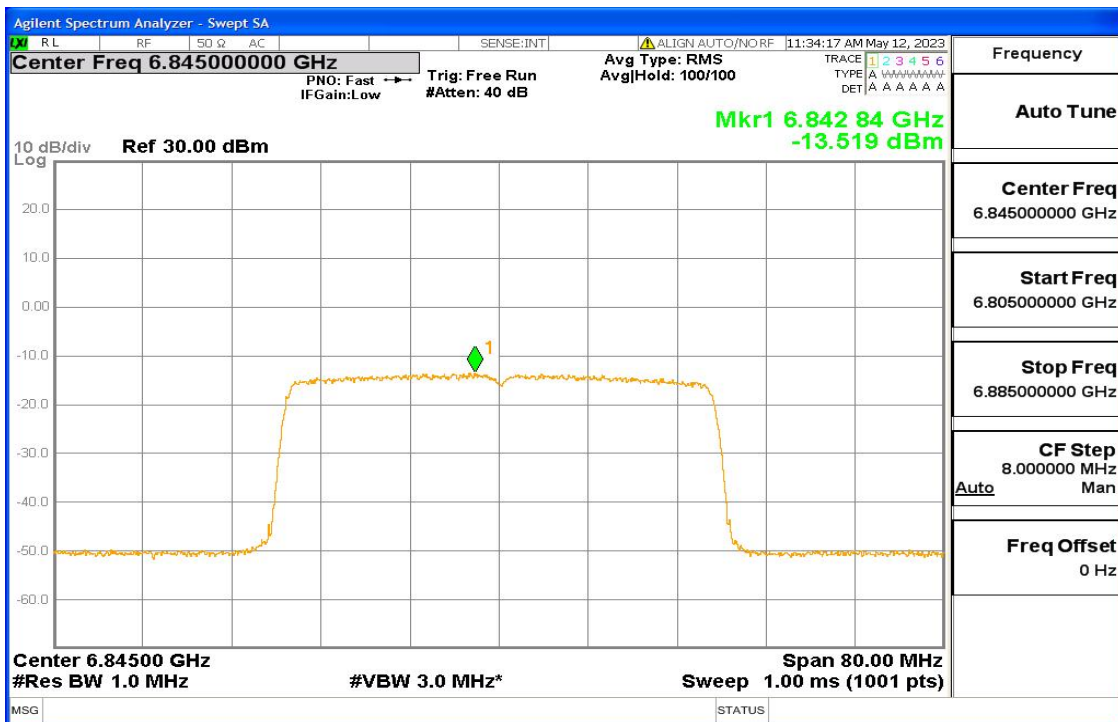
11ax-HE40 Fig7

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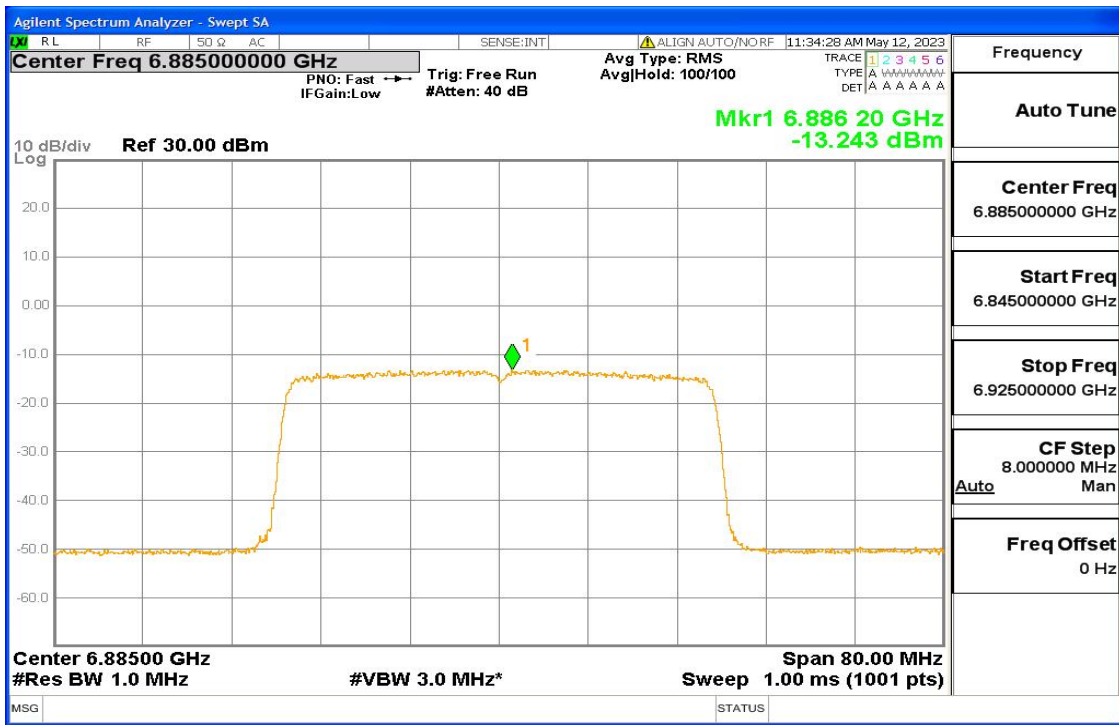
11ax-HE40 Fig8



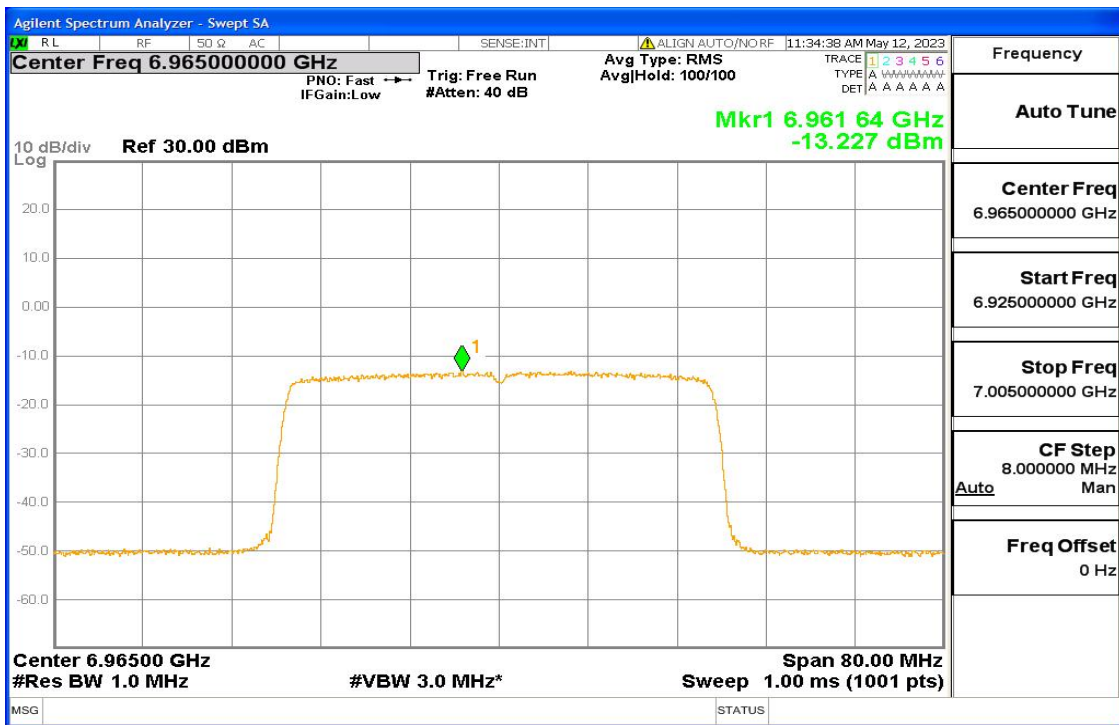
11ax-HE40 Fig9

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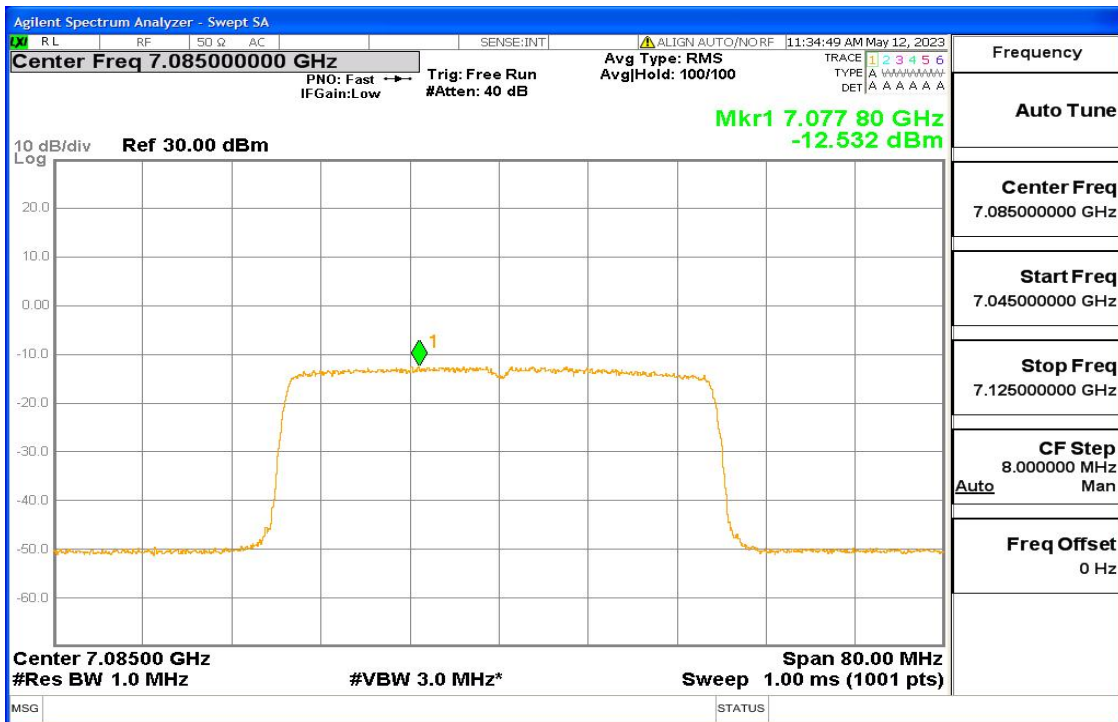
11ax-HE40 Fig10



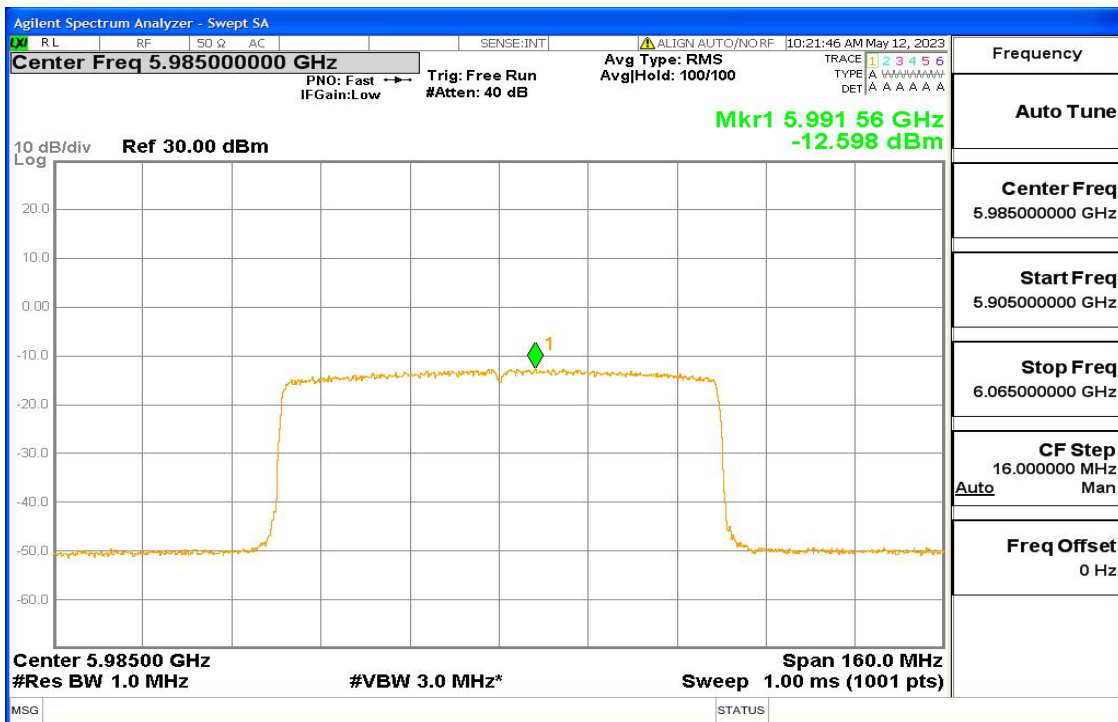
11ax-HE40 Fig11

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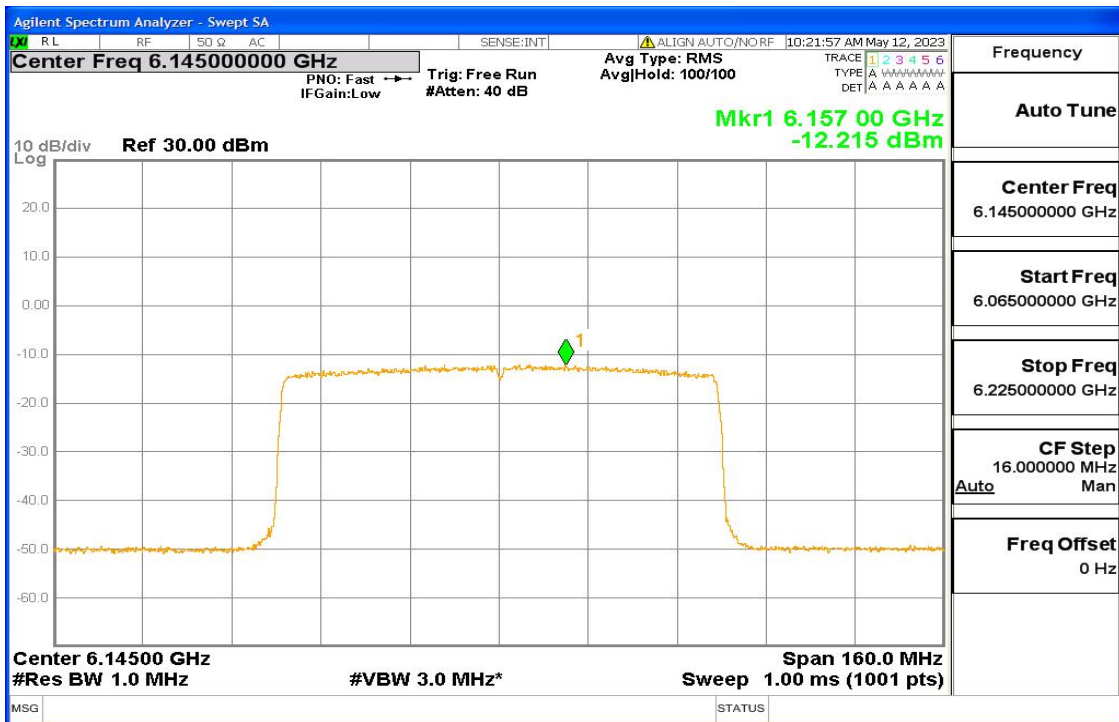
11ax-HE40 Fig12



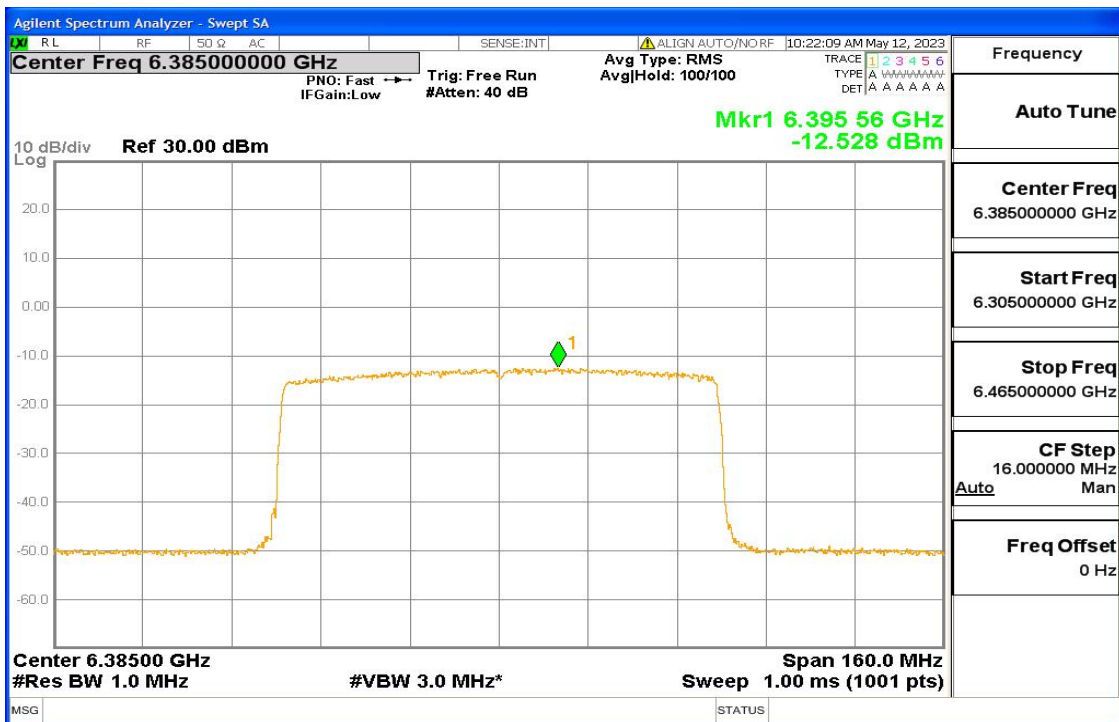
11ax-HE80 Fig1

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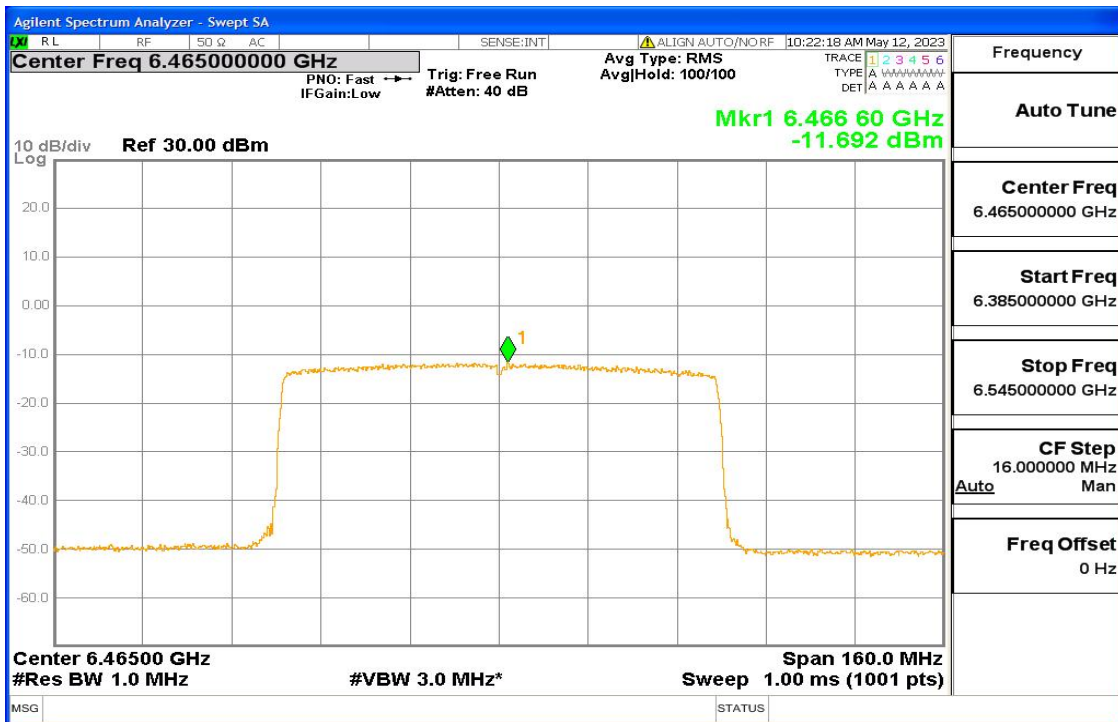
11ax-HE80 Fig2



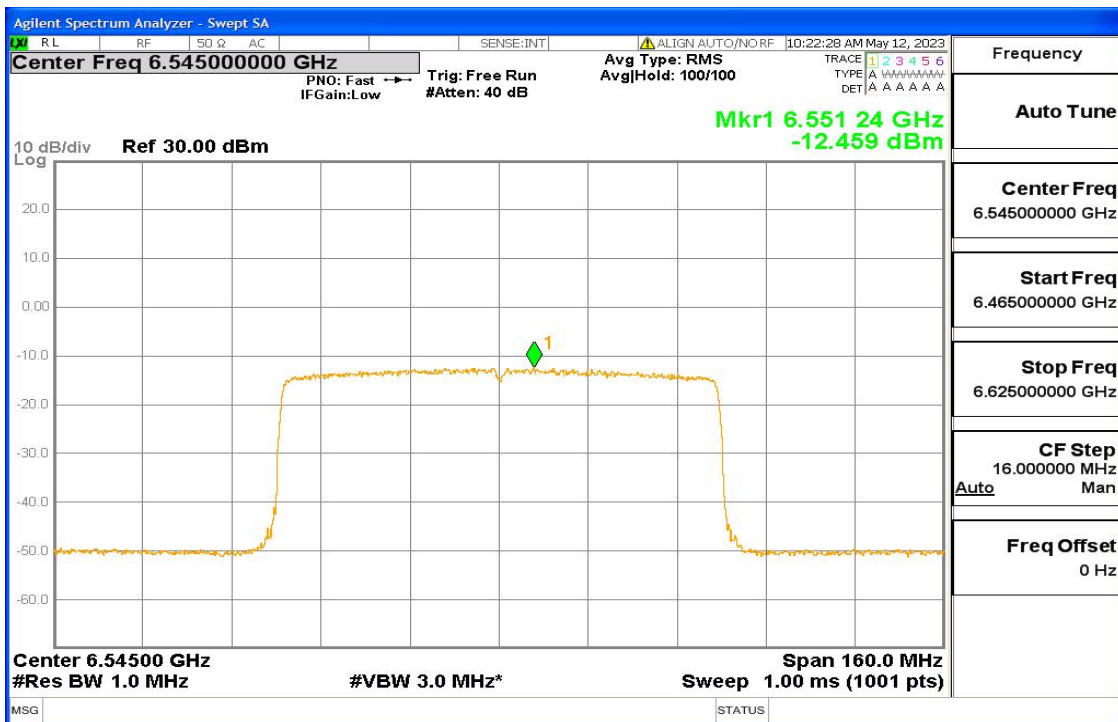
11ax-HE80 Fig3

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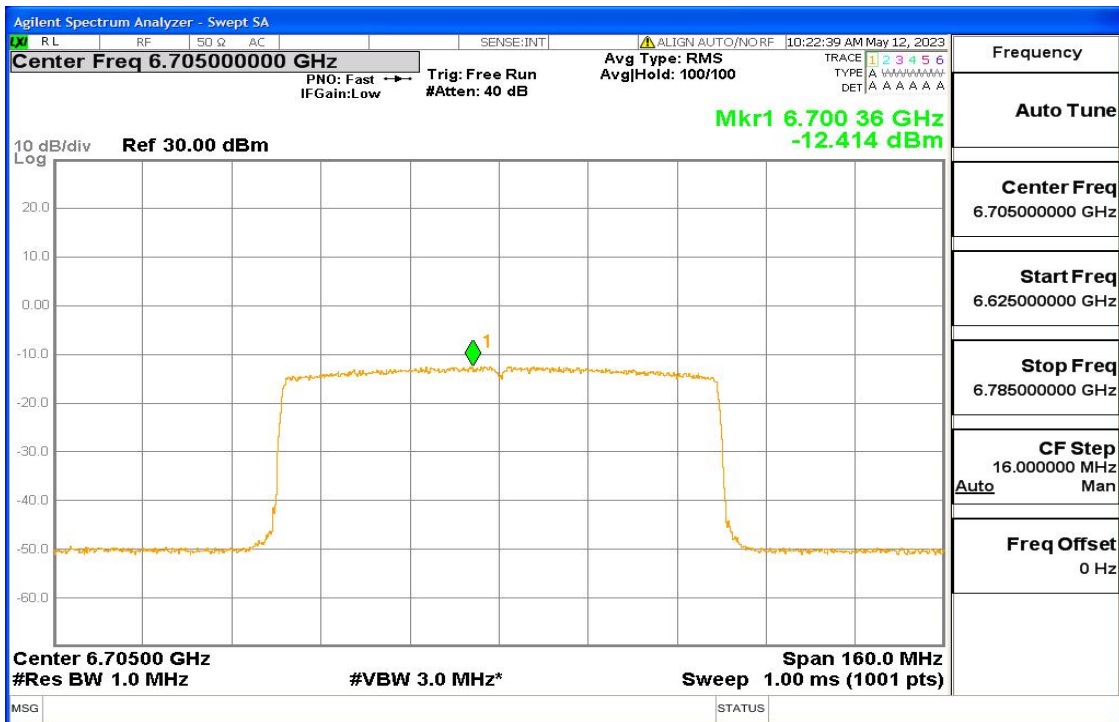
11ax-HE80 Fig4



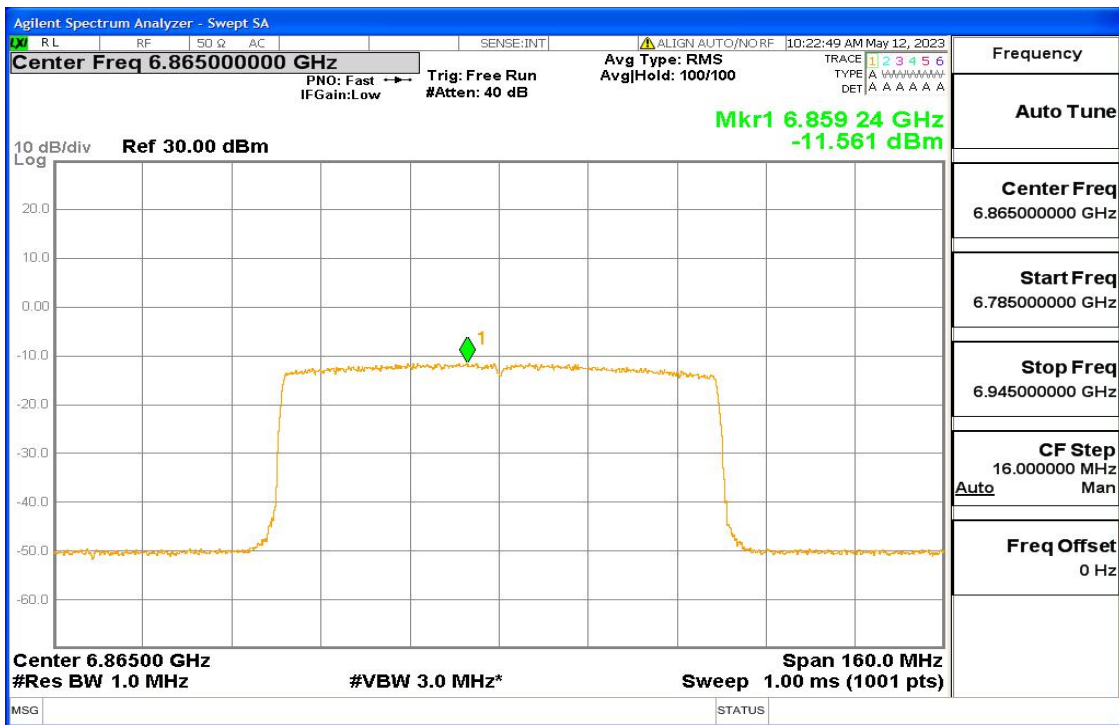
11ax-HE80 Fig5

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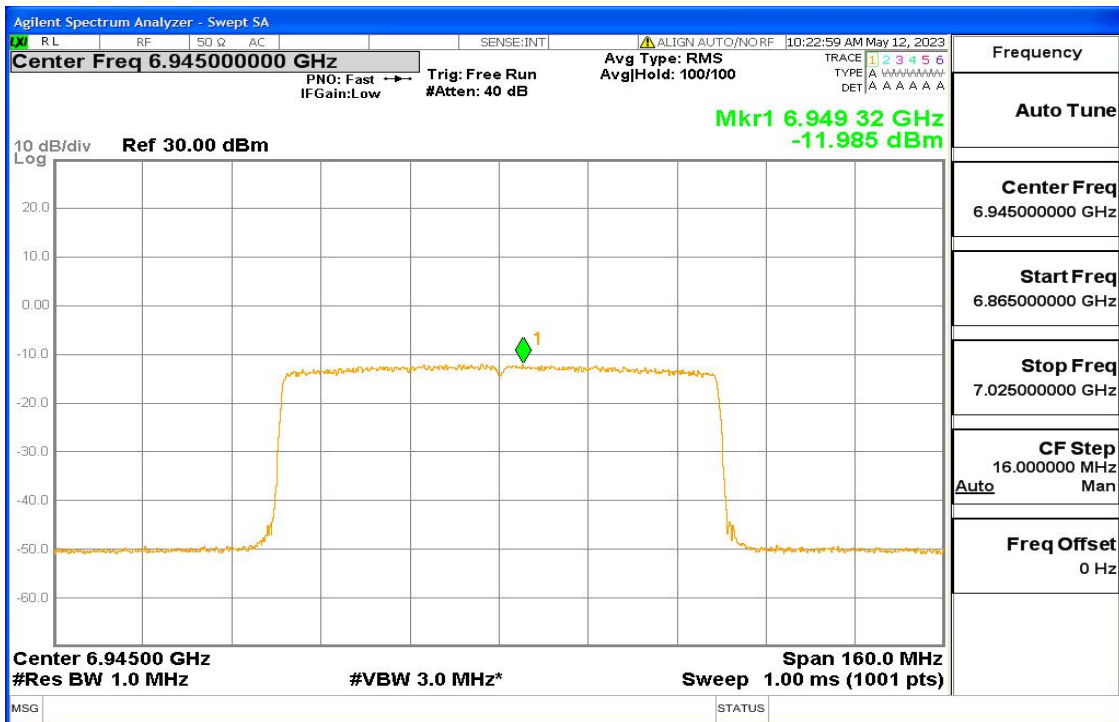
11ax-HE80 Fig6



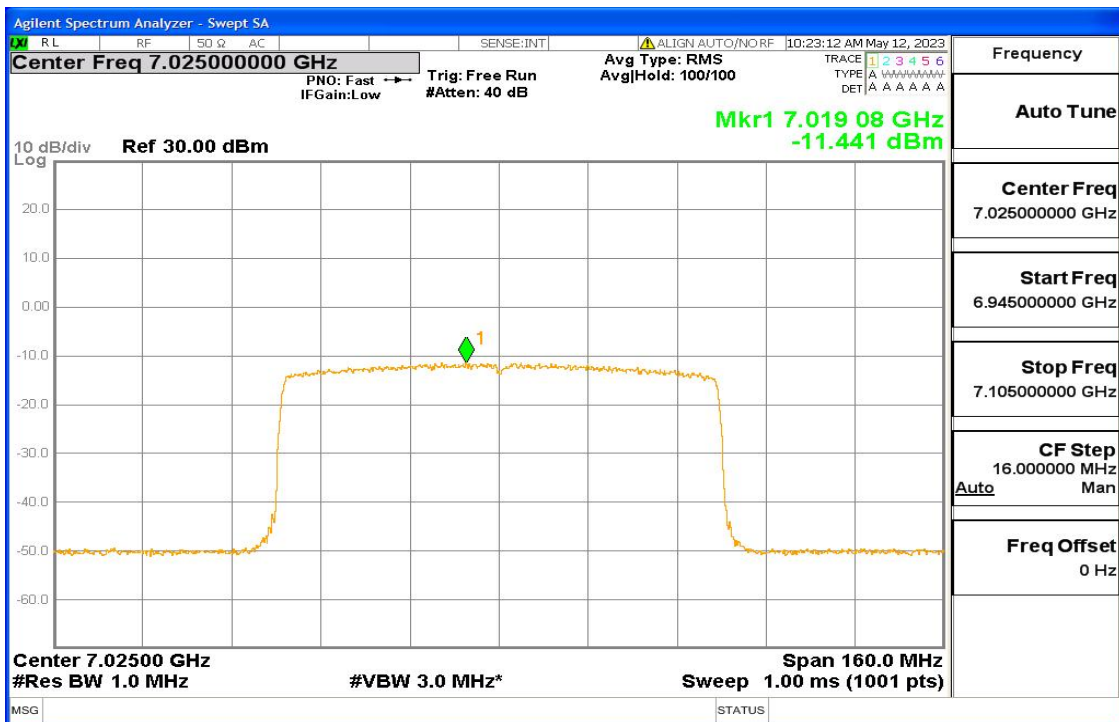
11ax-HE80 Fig7

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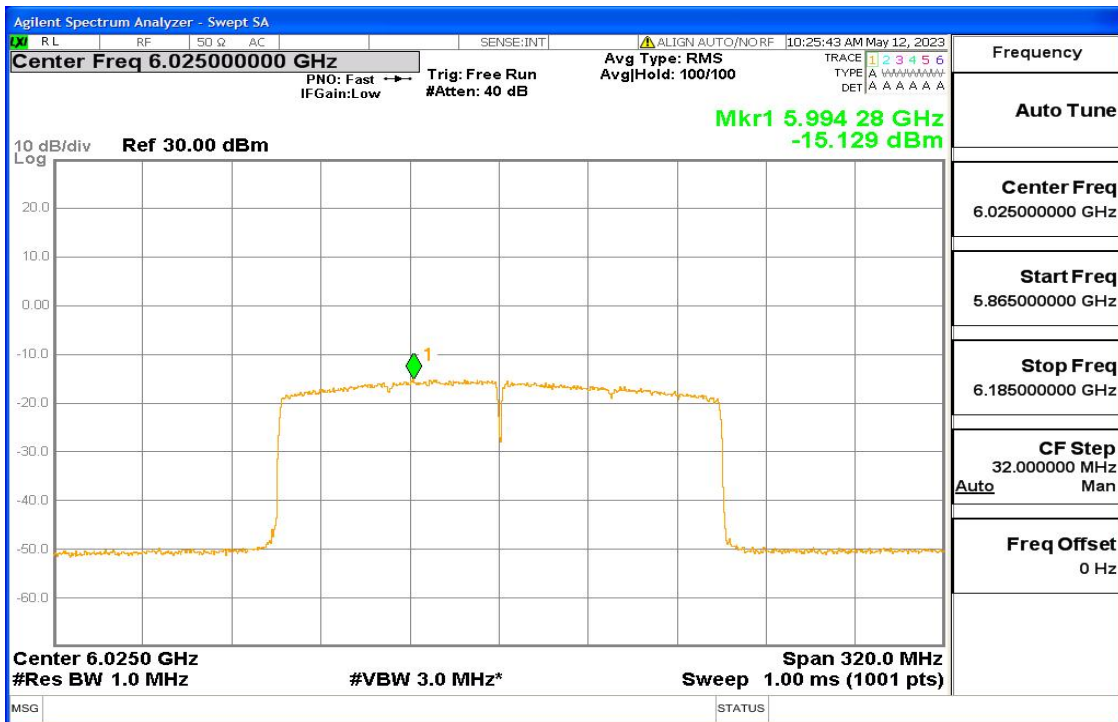
11ax-HE80 Fig8



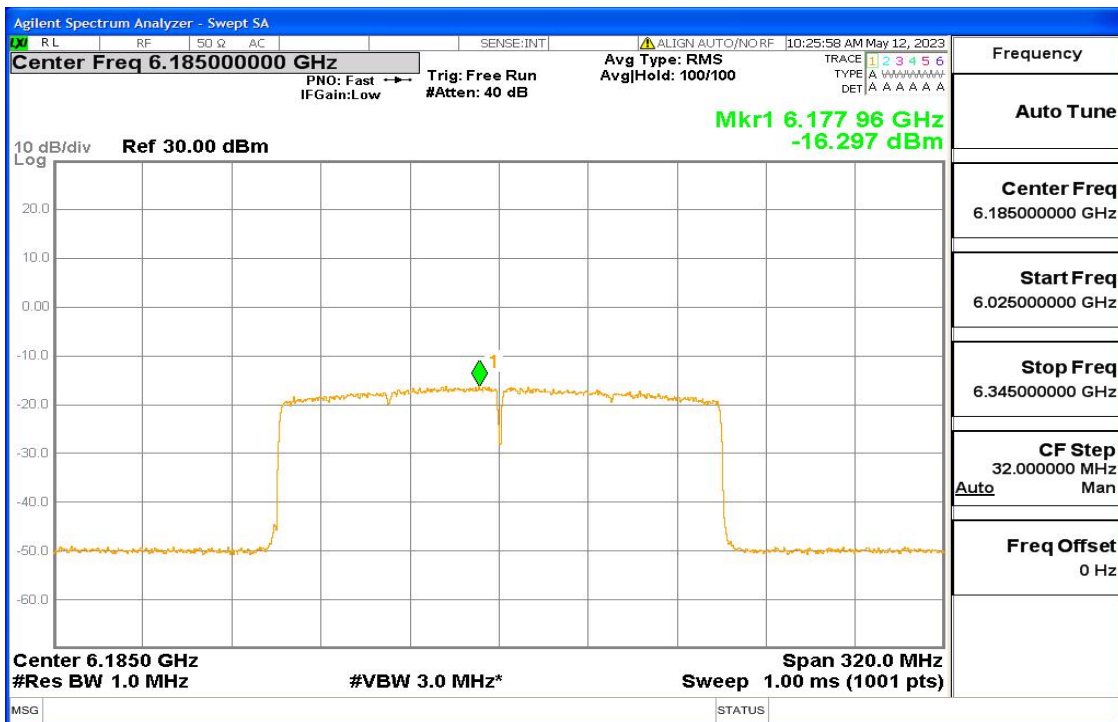
11ax-HE80 Fig9

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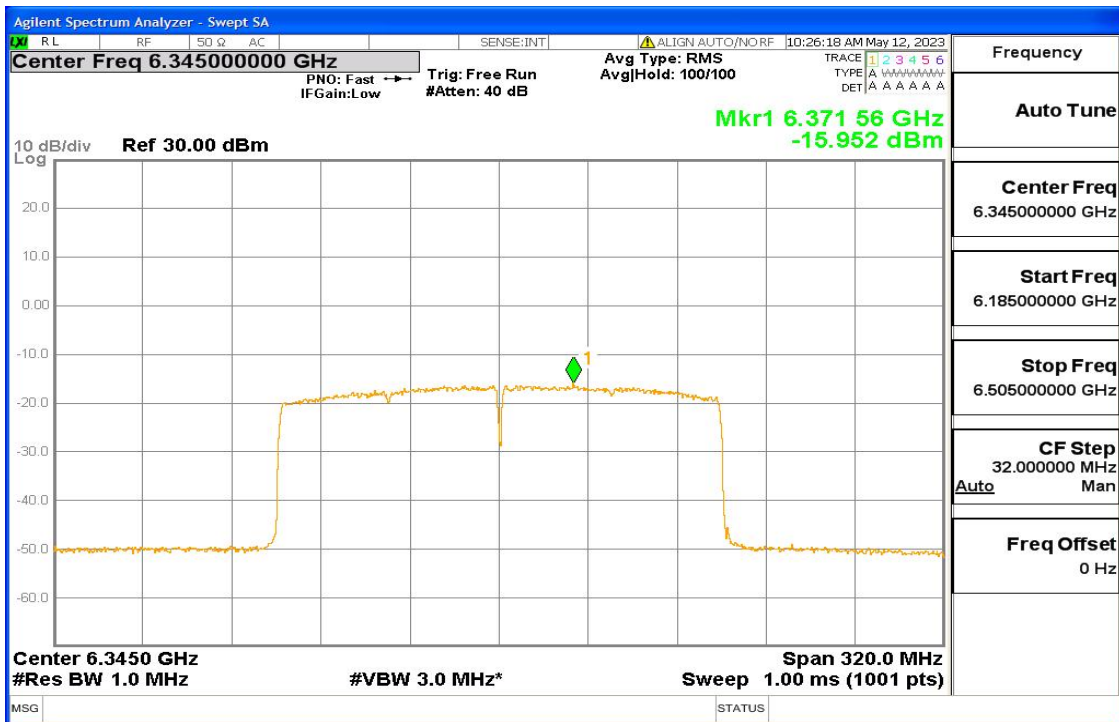
11ax-HE160 Fig1



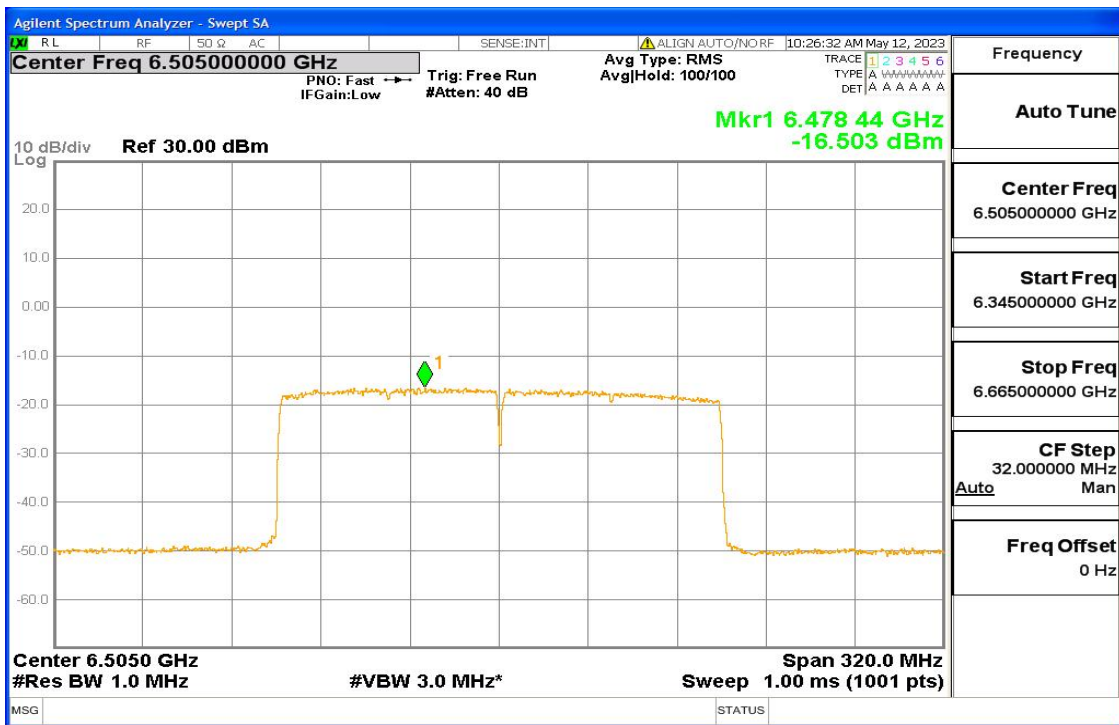
11ax-HE160 Fig2

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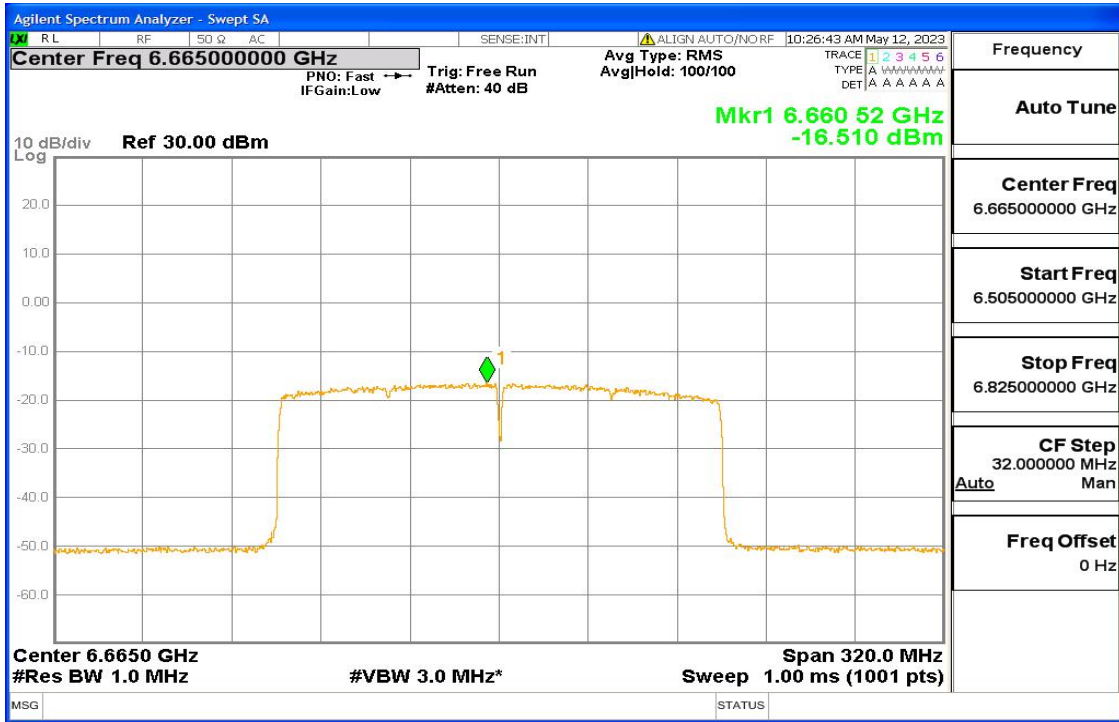
11ax-HE160 Fig3



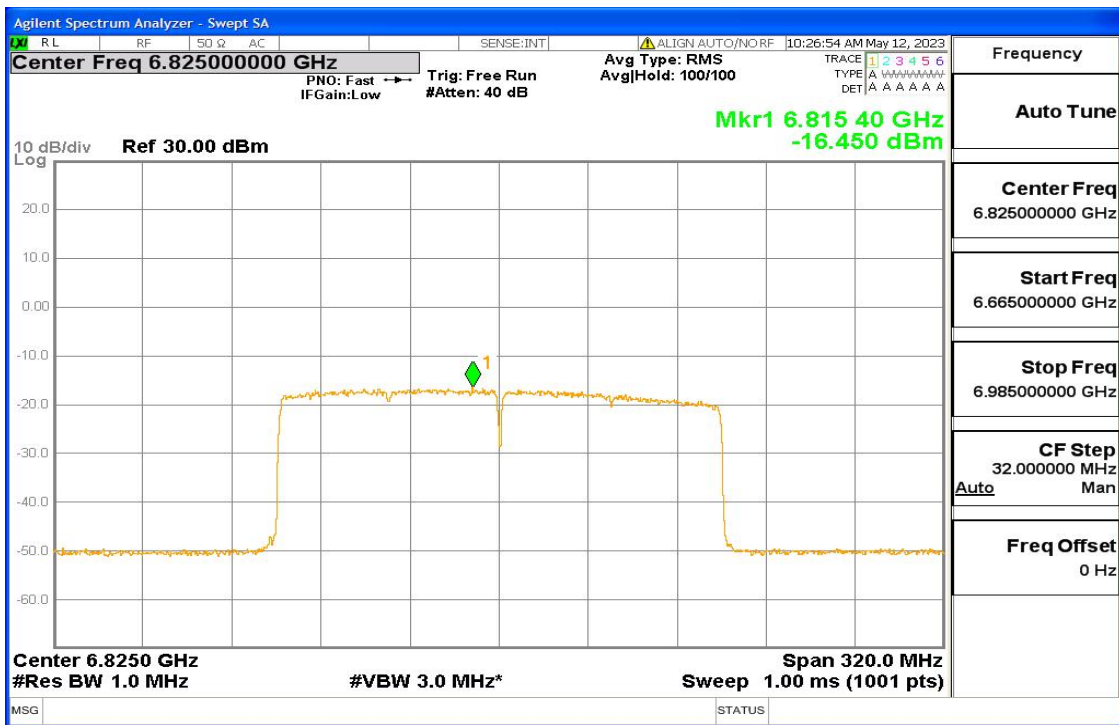
11ax-HE160 Fig4

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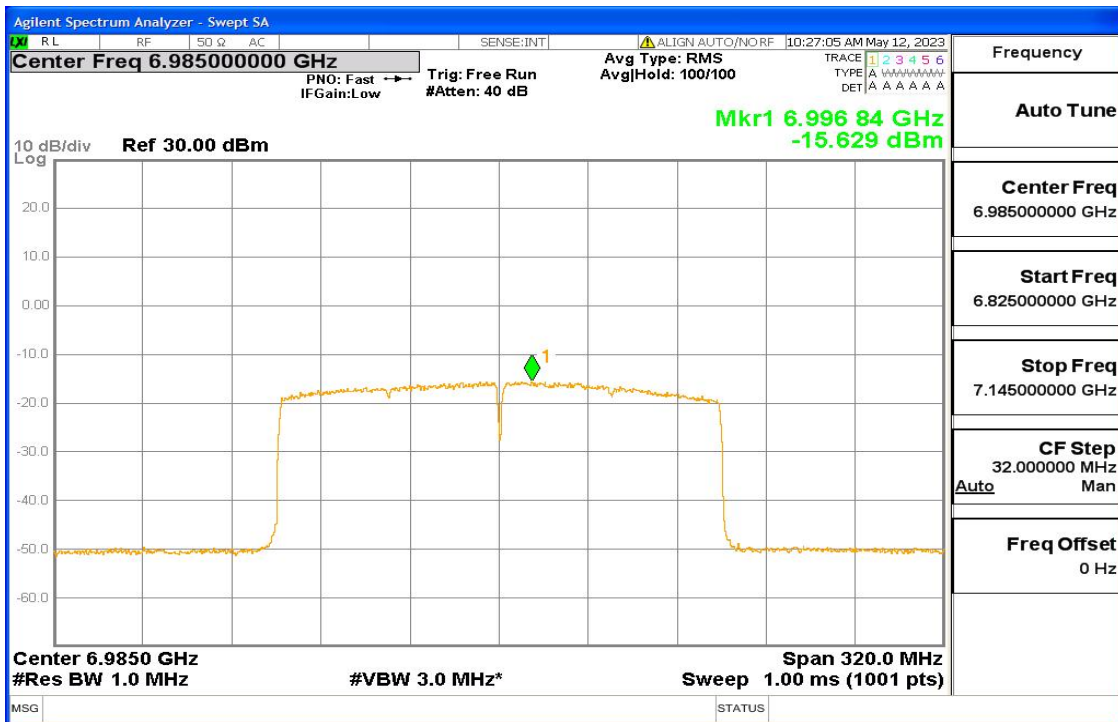
11ax-HE160 Fig5



11ax-HE160 Fig6

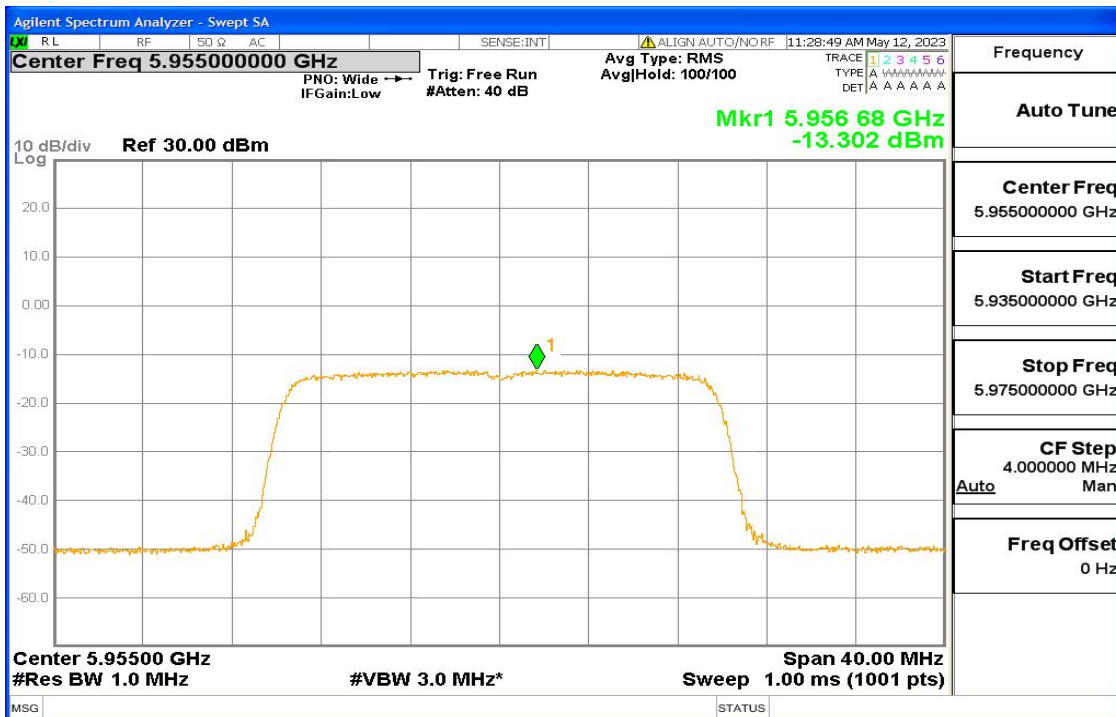
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11ax-HE160 Fig7

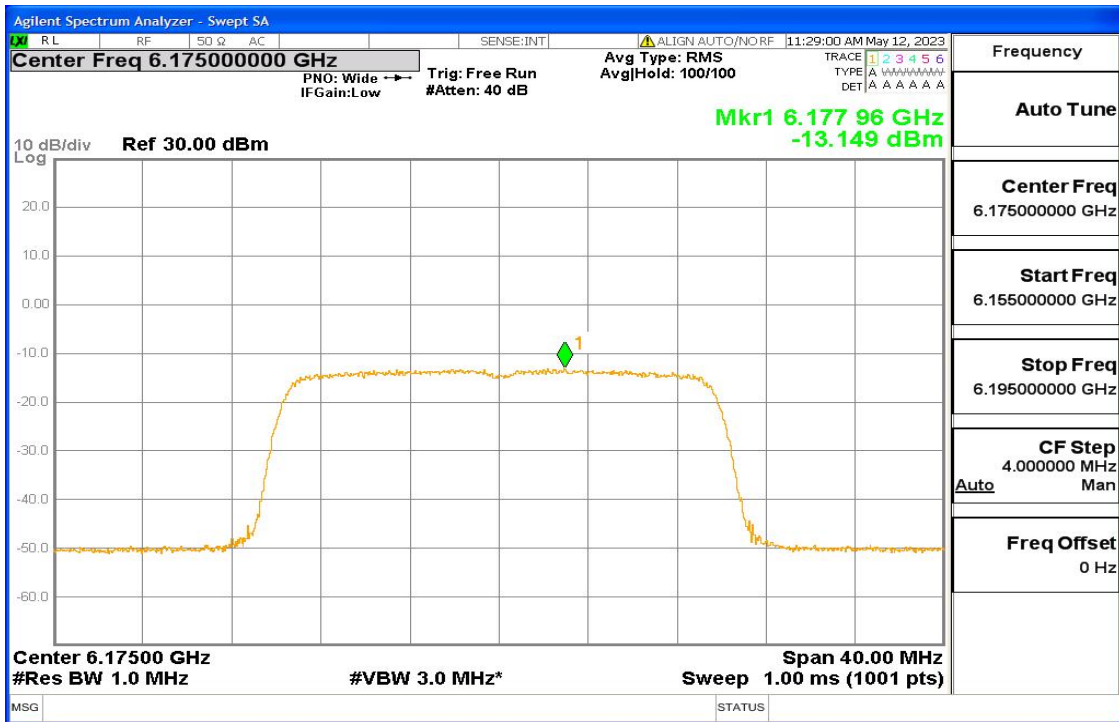
Chain.1



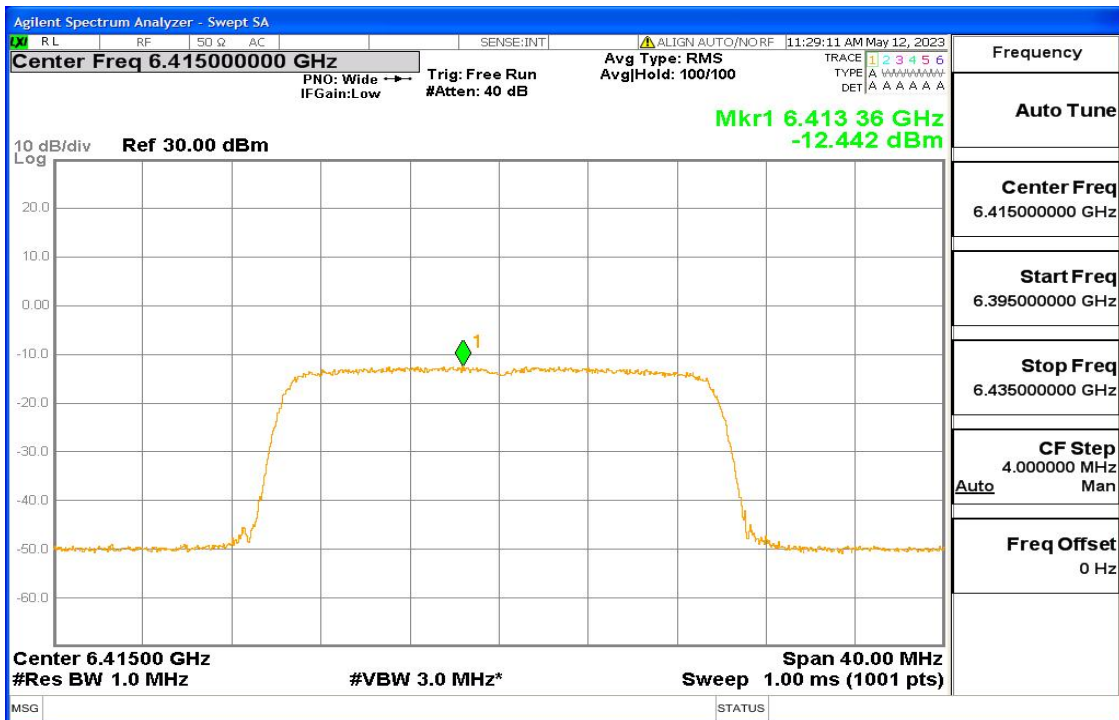
11ax-HE20 Fig1

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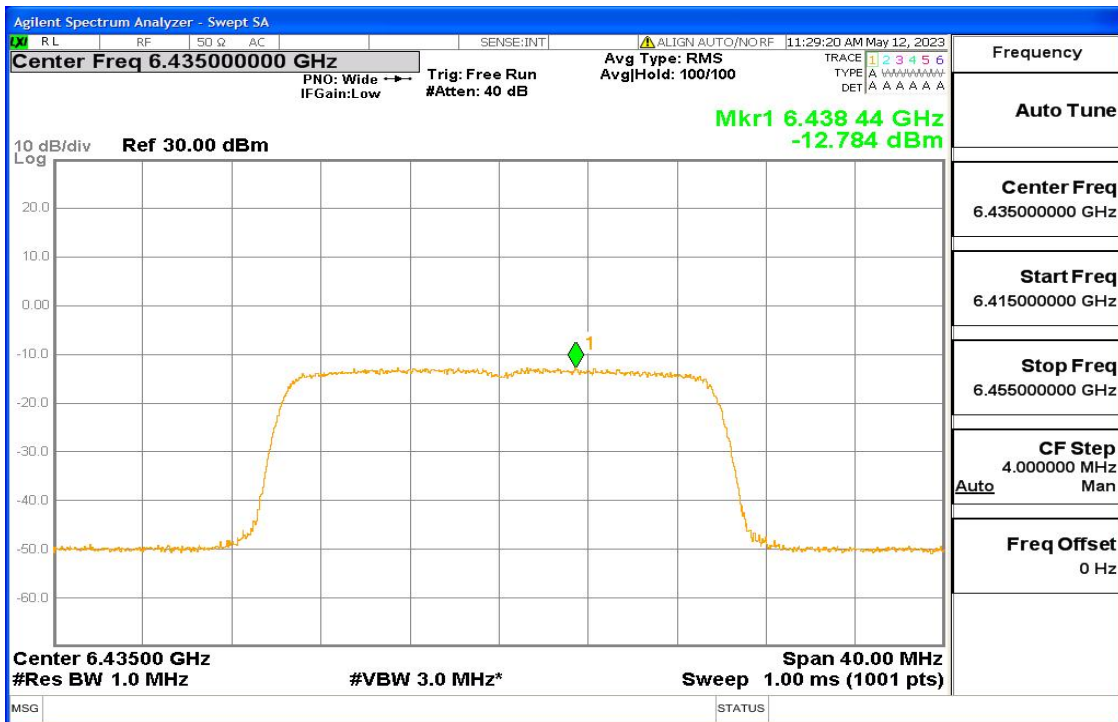
11ax-HE20 Fig2



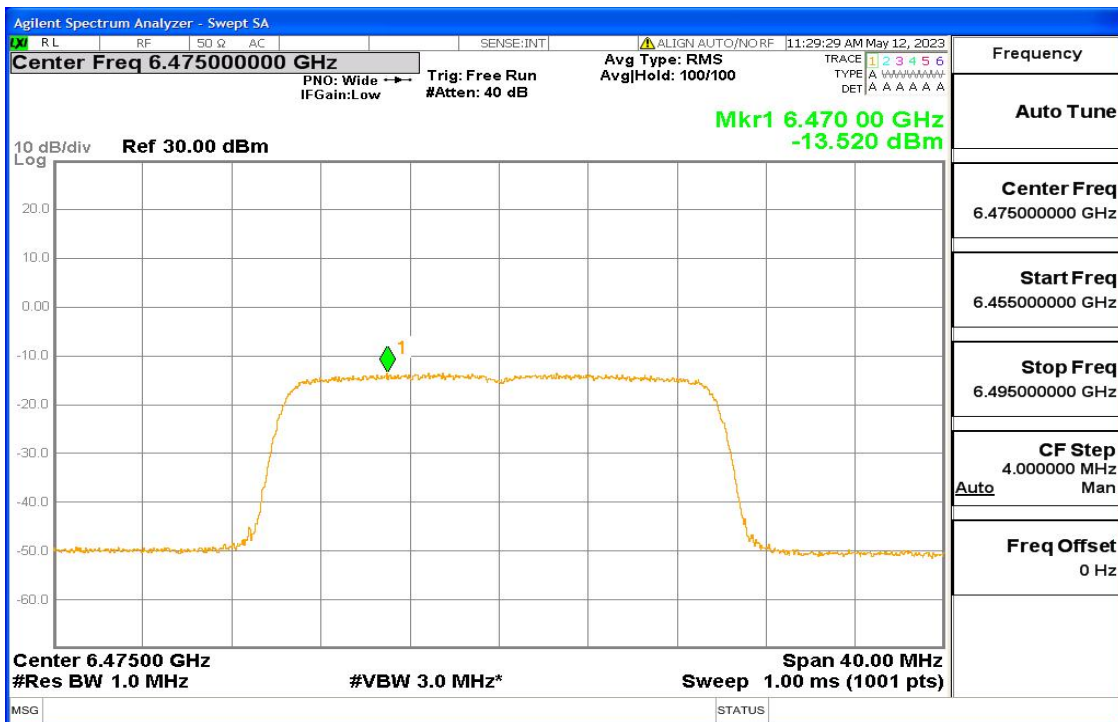
11ax-HE20 Fig3

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11ax-HE20 Fig4



11ax-HE20 Fig5

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