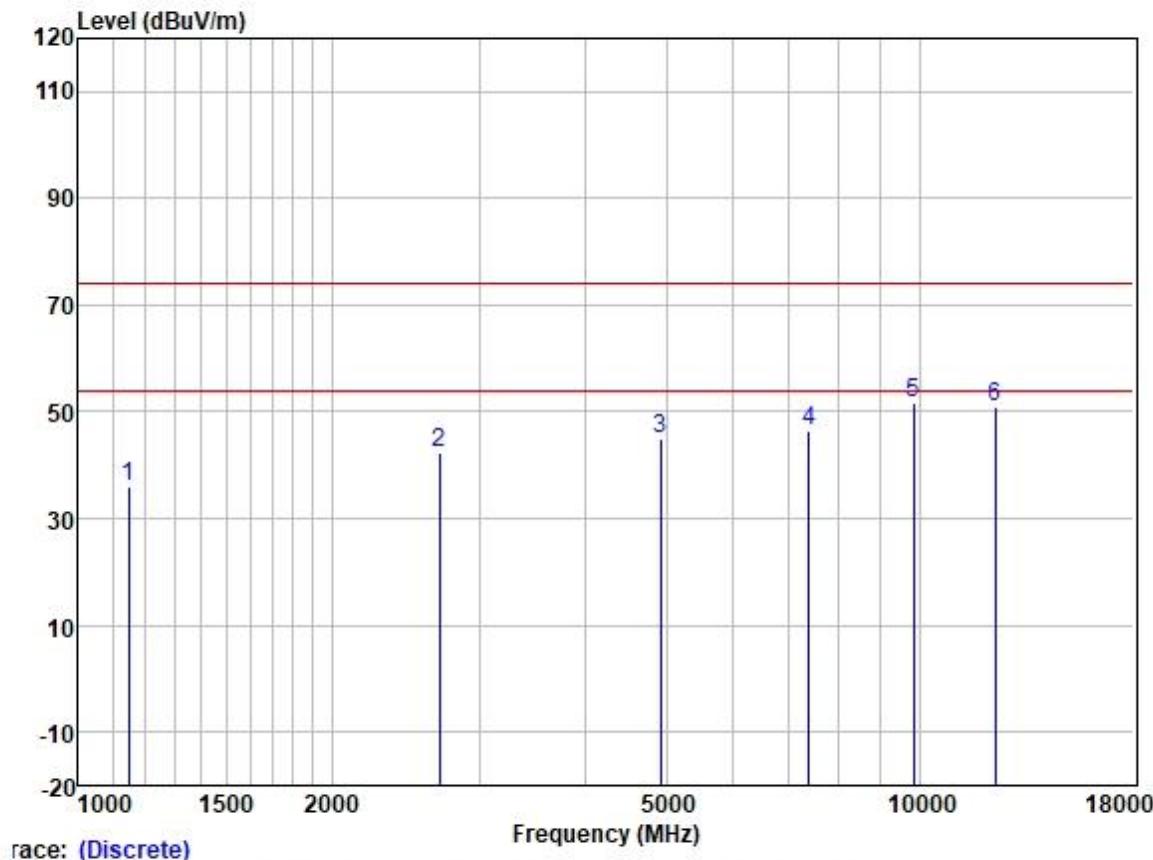


Test Mode: 02; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	dBuV/m	dB	Line	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1 1148.823	47.59	24.49	2.34	38.42	36.00	74.00	-38.00	74.00	-38.00	HORIZONTAL	Peak		
2 2687.220	48.28	27.80	3.59	37.48	42.19	74.00	-31.81	74.00	-31.81	HORIZONTAL	Peak		
3 4924.662	44.50	31.62	5.60	36.84	44.88	74.00	-29.12	74.00	-29.12	HORIZONTAL	Peak		
4 7386.918	41.59	36.17	6.19	37.45	46.50	74.00	-27.50	74.00	-27.50	HORIZONTAL	Peak		
5 9848.670	43.34	38.58	6.99	37.41	51.50	74.00	-22.50	74.00	-22.50	HORIZONTAL	Peak		
6 12310.270	41.20	38.63	8.01	36.95	50.89	74.00	-23.11	74.00	-23.11	HORIZONTAL	Peak		

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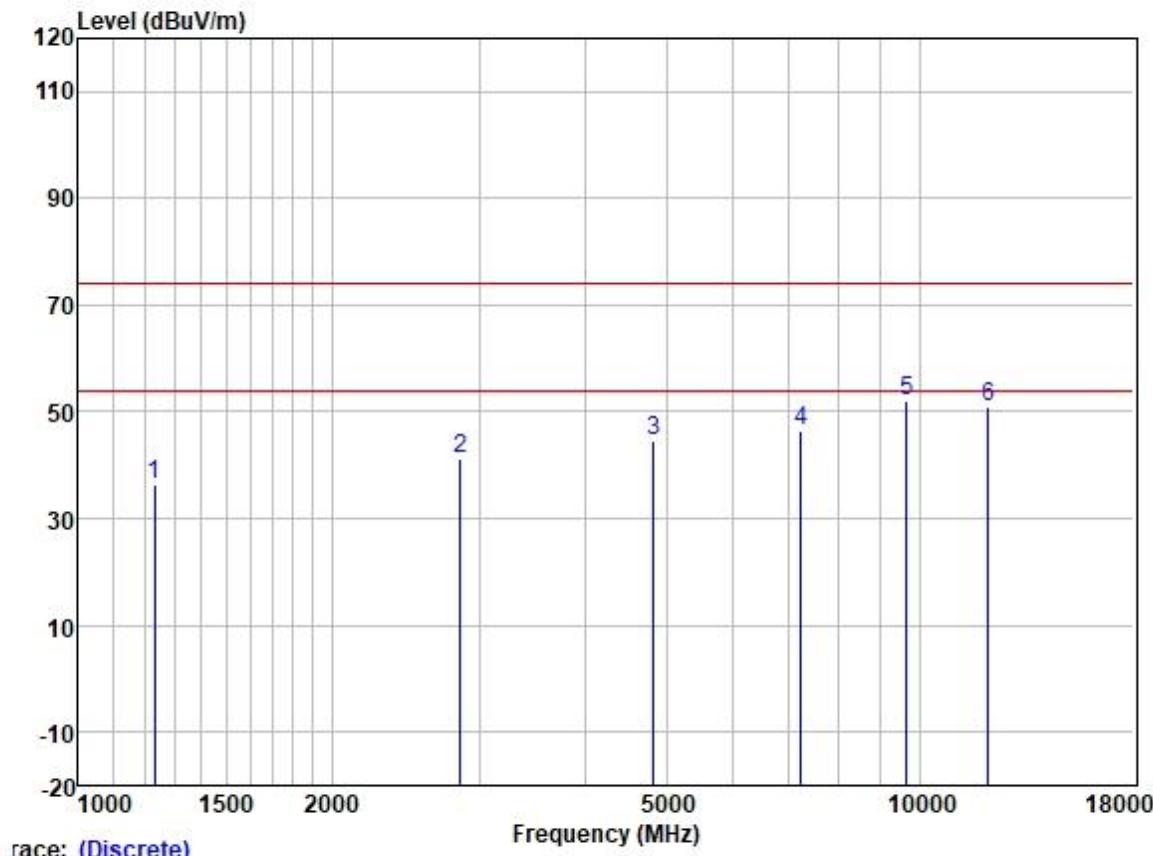
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB			
1	1231.345	47.52	24.91	2.31	38.37	36.37	74.00	-37.63	VERTICAL	Peak		
2	2847.139	46.79	28.22	3.70	37.38	41.33	74.00	-32.67	VERTICAL	Peak		
3	4824.975	44.71	31.45	5.42	36.83	44.75	74.00	-29.25	VERTICAL	Peak		
4	7236.015	42.08	35.70	6.03	37.39	46.42	74.00	-27.58	VERTICAL	Peak		
5	9648.470	44.15	38.40	7.06	37.42	52.19	74.00	-21.81	VERTICAL	Peak		
6	12060.390	40.89	38.88	8.17	37.08	50.86	74.00	-23.14	VERTICAL	Peak		

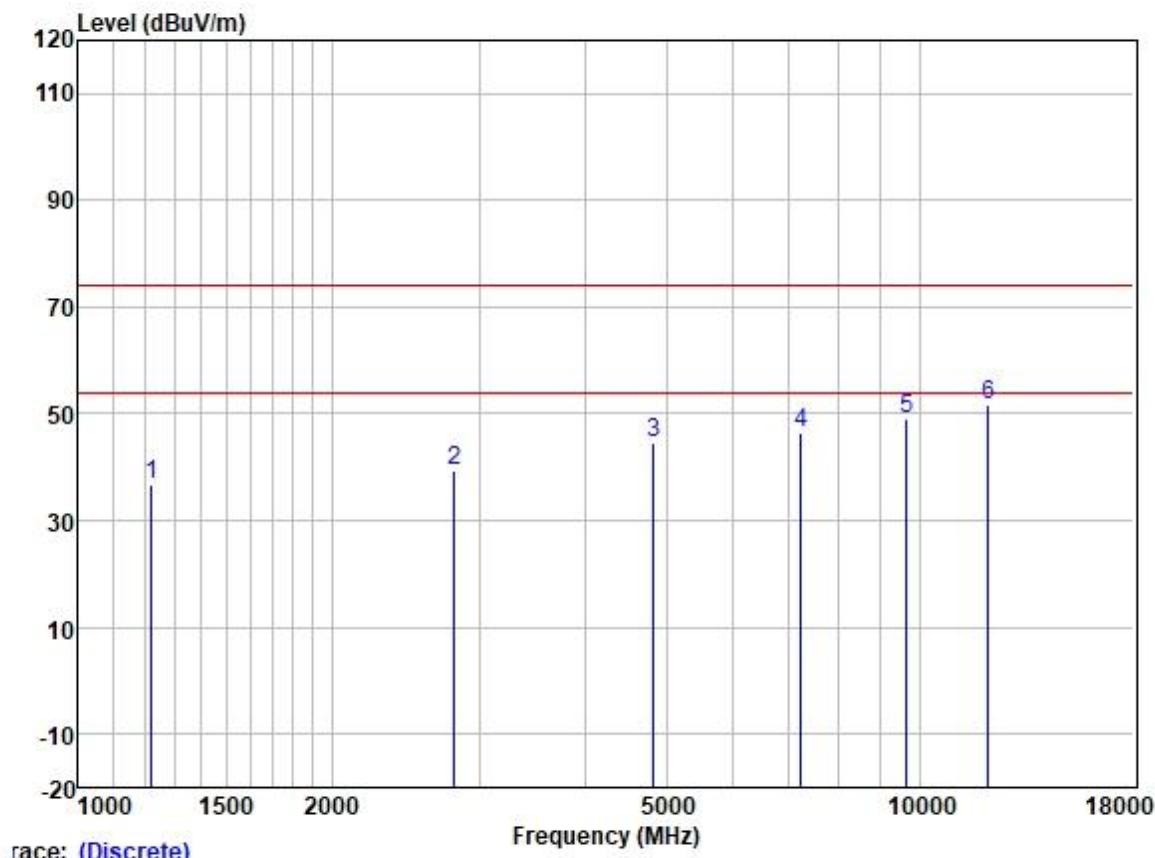
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	Limit Level	Line dBuV/m	Over Line dB	Limit Pol/Phase	Remark
	MHz	dBuV	Level	Factor								
1 1220.714	48.04	24.82	2.32	38.37	36.81	74.00	-37.19	HORIZONTAL	Peak			
2 2798.189	45.00	28.13	3.70	37.41	39.42	74.00	-34.58	HORIZONTAL	Peak			
3 4824.125	44.43	31.45	5.42	36.83	44.47	74.00	-29.53	HORIZONTAL	Peak			
4 7236.144	42.03	35.70	6.03	37.39	46.37	74.00	-27.63	HORIZONTAL	Peak			
5 9648.164	40.94	38.40	7.06	37.42	48.98	74.00	-25.02	HORIZONTAL	Peak			
6 12060.330	41.79	38.88	8.17	37.08	51.76	74.00	-22.24	HORIZONTAL	Peak			

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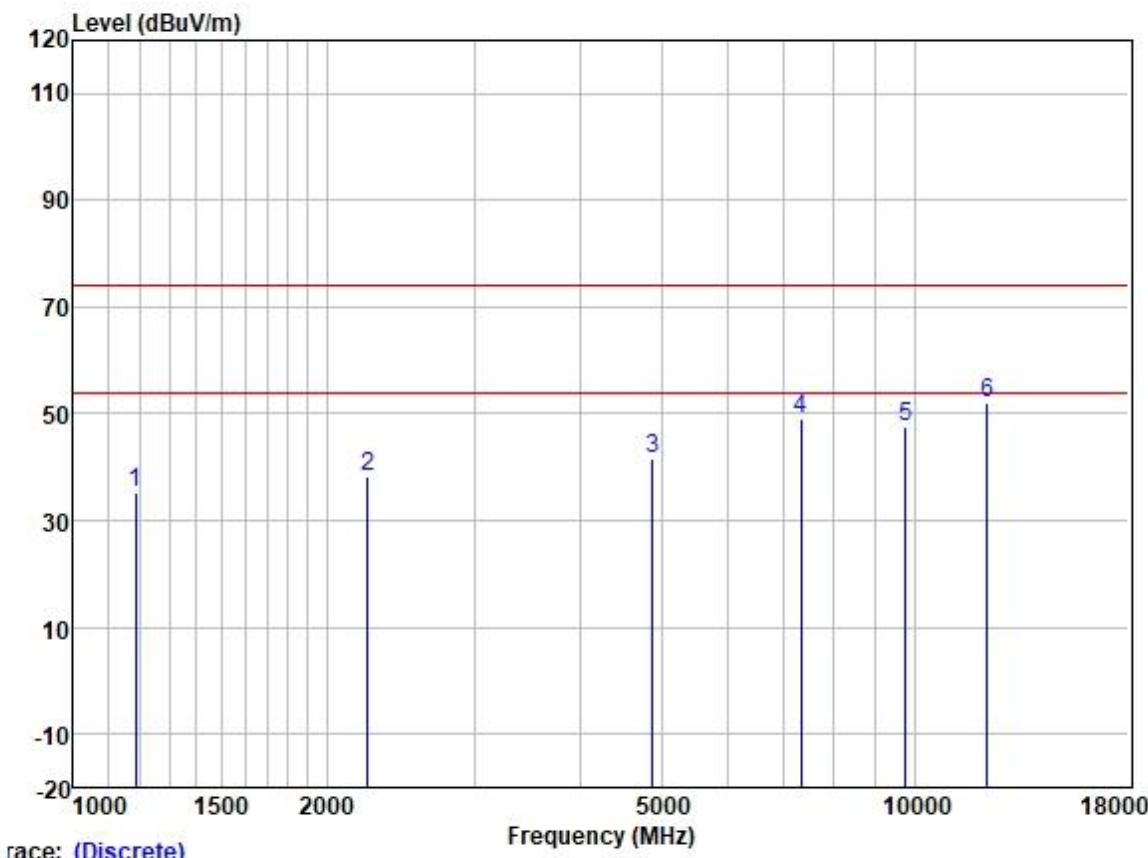
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1185.936	46.75	24.62	2.37	38.40	35.34	74.00	-38.66 VERTICAL Peak
2	2239.861	45.65	26.84	3.24	37.64	38.09	74.00	-35.91 VERTICAL Peak
3	4884.516	41.37	31.56	5.52	36.84	41.61	74.00	-32.39 VERTICAL Peak
4	7326.209	44.18	36.00	6.13	37.43	48.88	74.00	-25.12 VERTICAL Peak
5	9768.479	39.30	38.53	7.01	37.41	47.43	74.00	-26.57 VERTICAL Peak
6	12210.870	42.13	38.74	8.08	37.00	51.95	74.00	-22.05 VERTICAL Peak

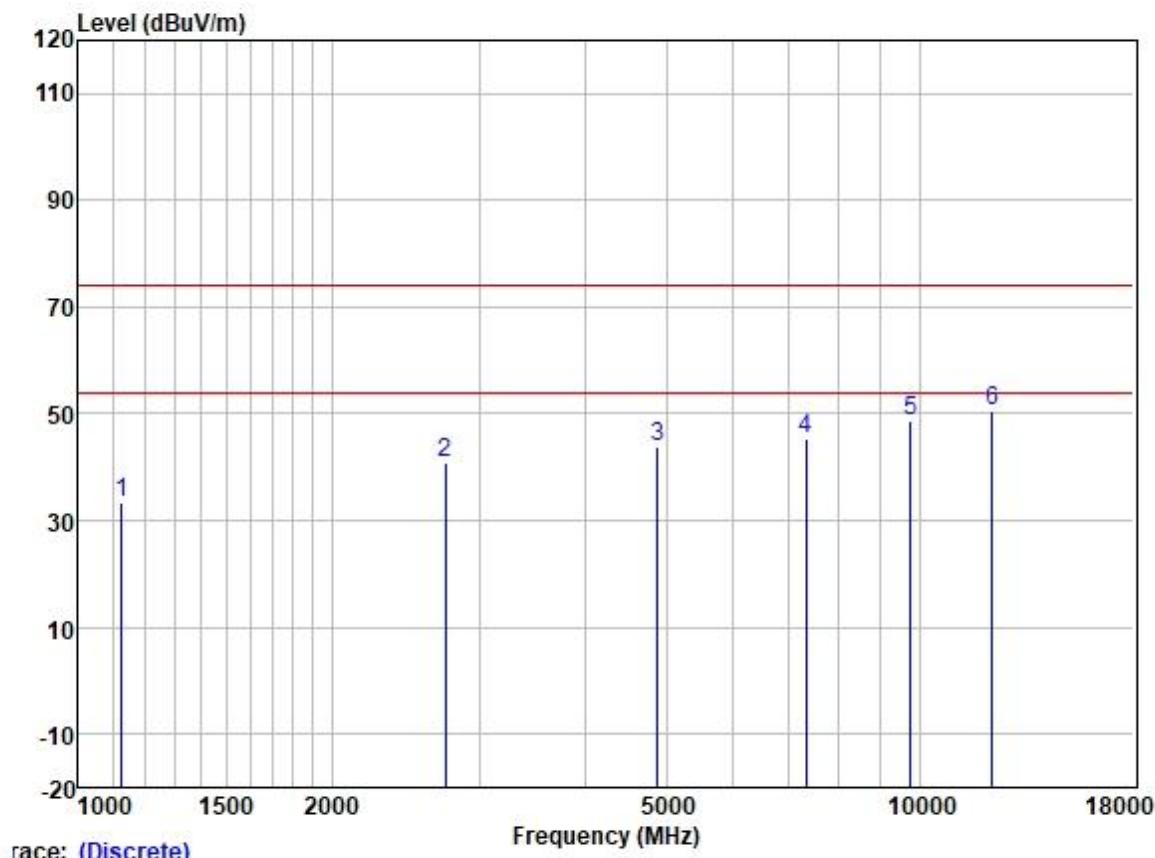
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	dBuV/m	dB	Line	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1	1125.813	45.19	24.42	2.21	38.43	33.39	74.00	-40.61	-40.61	HORIZONTAL	Peak		
2	2734.229	46.75	27.95	3.63	37.46	40.87	74.00	-33.13	-33.13	HORIZONTAL	Peak		
3	4884.299	43.75	31.56	5.52	36.84	43.99	74.00	-30.01	-30.01	HORIZONTAL	Peak		
4	7326.516	40.81	36.00	6.13	37.43	45.51	74.00	-28.49	-28.49	HORIZONTAL	Peak		
5	9768.432	40.67	38.53	7.01	37.41	48.80	74.00	-25.20	-25.20	HORIZONTAL	Peak		
6	12210.350	40.80	38.74	8.08	37.00	50.62	74.00	-23.38	-23.38	HORIZONTAL	Peak		

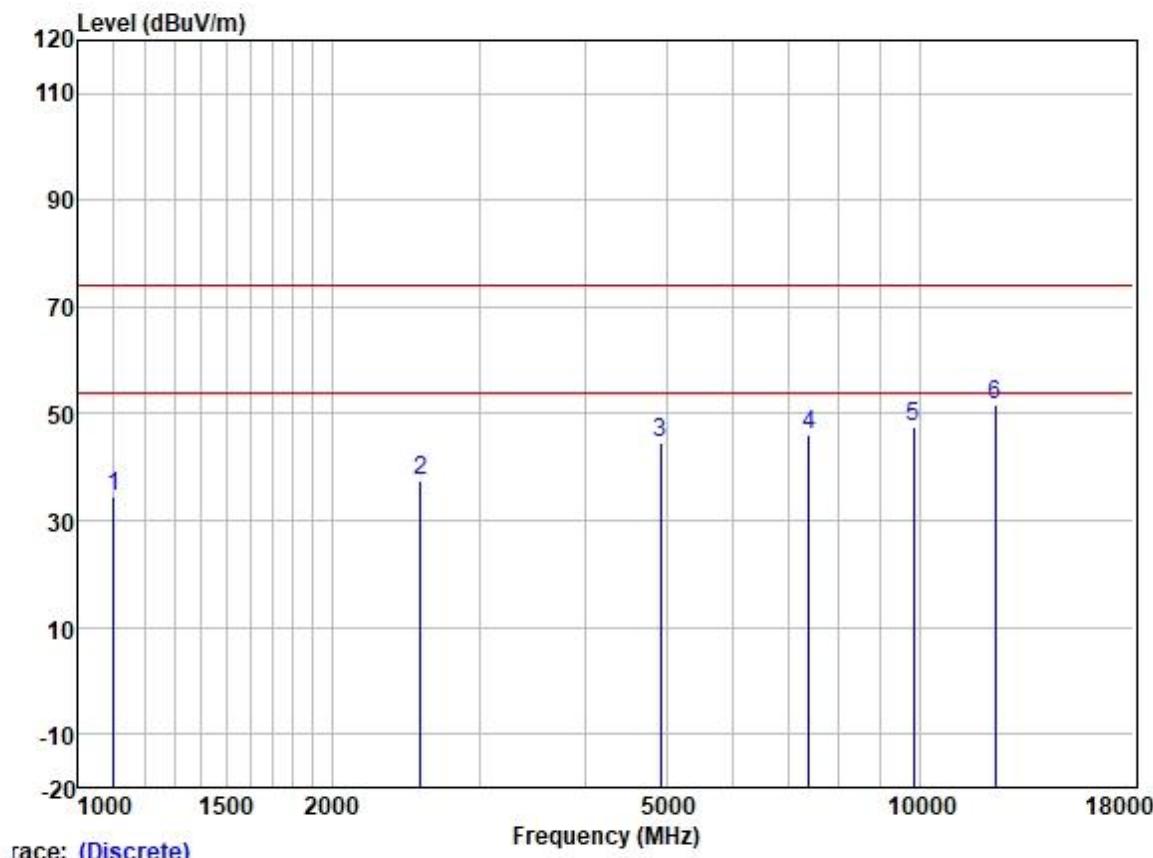
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1 1100.079	46.21	24.37	2.30	38.45	34.43	74.00	-39.57	VERTICAL				Peak	
2 2550.987	44.04	27.56	3.45	37.54	37.51	74.00	-36.49	VERTICAL				Peak	
3 4924.317	44.16	31.62	5.60	36.84	44.54	74.00	-29.46	VERTICAL				Peak	
4 7386.741	41.01	36.17	6.19	37.45	45.92	74.00	-28.08	VERTICAL				Peak	
5 9848.063	39.42	38.58	6.99	37.41	47.58	74.00	-26.42	VERTICAL				Peak	
6 12310.470	41.93	38.63	8.01	36.95	51.62	74.00	-22.38	VERTICAL				Peak	

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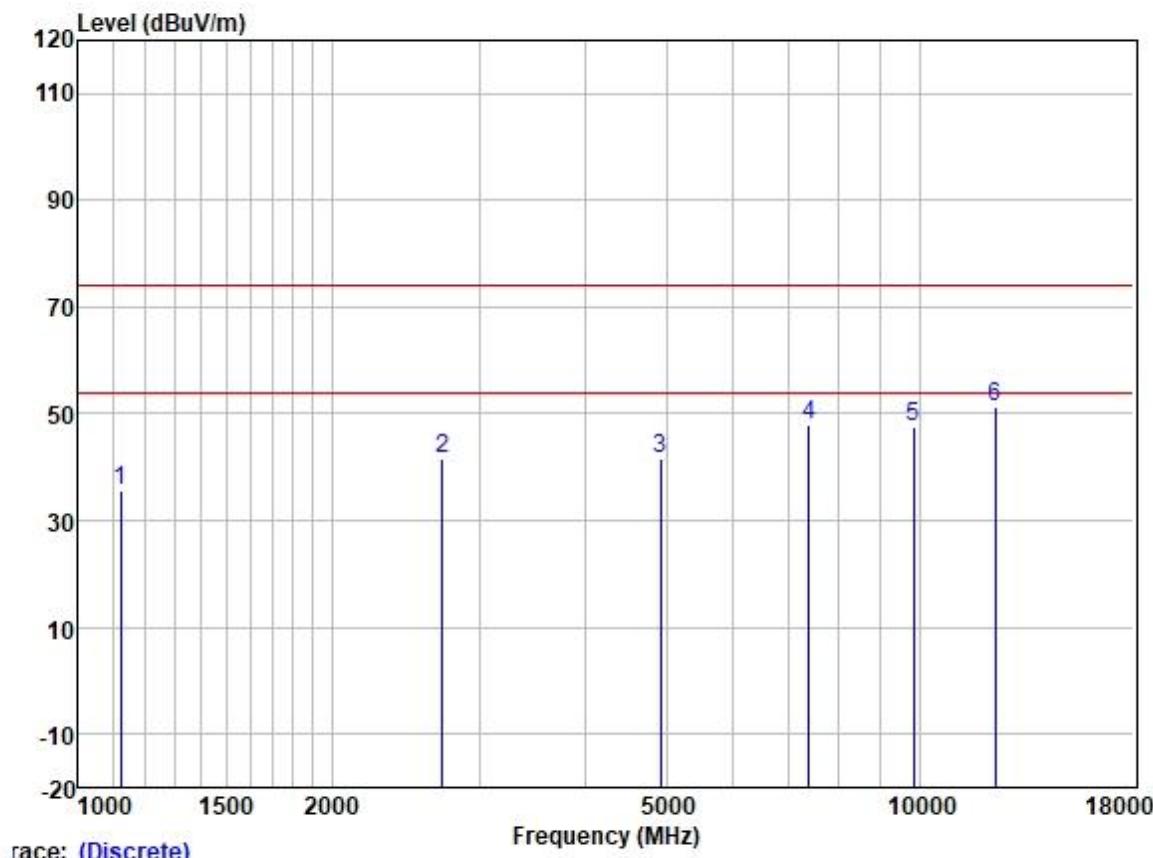
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:20MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	dBuV/m	dB	Line	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level	Factor									
1 1122.563	47.28	24.42	2.22	38.43	35.49	74.00	-38.51	HORIZONTAL	Peak				
2 2710.622	47.70	27.87	3.61	37.47	41.71	74.00	-32.29	HORIZONTAL	Peak				
3 4924.011	41.38	31.62	5.60	36.84	41.76	74.00	-32.24	HORIZONTAL	Peak				
4 7386.026	42.86	36.17	6.19	37.45	47.77	74.00	-26.23	HORIZONTAL	Peak				
5 9848.725	39.28	38.58	6.99	37.41	47.44	74.00	-26.56	HORIZONTAL	Peak				
6 12310.000	41.46	38.63	8.01	36.95	51.15	74.00	-22.85	HORIZONTAL	Peak				

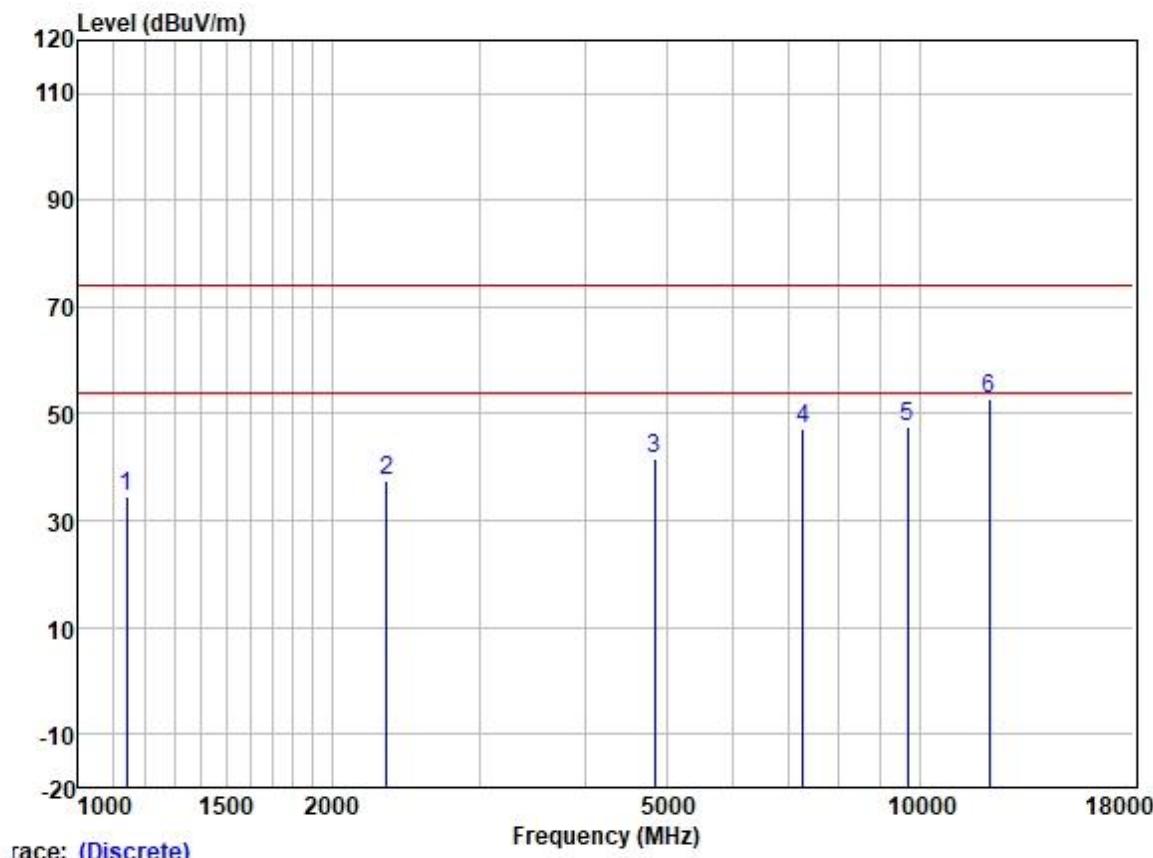
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)	ReadAntenna		Cable Preamp		Limit Line	Over Limit	Pol/Phase	Remark
	Freq	Level	Factor	Loss				
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	1142.201	46.14	24.47	2.30	38.42	34.49	74.00	-39.51 VERTICAL Peak
2	2325.624	44.65	27.19	3.34	37.62	37.56	74.00	-36.44 VERTICAL Peak
3	4844.422	41.54	31.50	5.45	36.84	41.65	74.00	-32.35 VERTICAL Peak
4	7266.553	42.62	35.78	6.06	37.41	47.05	74.00	-26.95 VERTICAL Peak
5	9688.460	39.70	38.44	7.04	37.42	47.76	74.00	-26.24 VERTICAL Peak
6	12110.910	42.76	38.83	8.14	37.05	52.68	74.00	-21.32 VERTICAL Peak

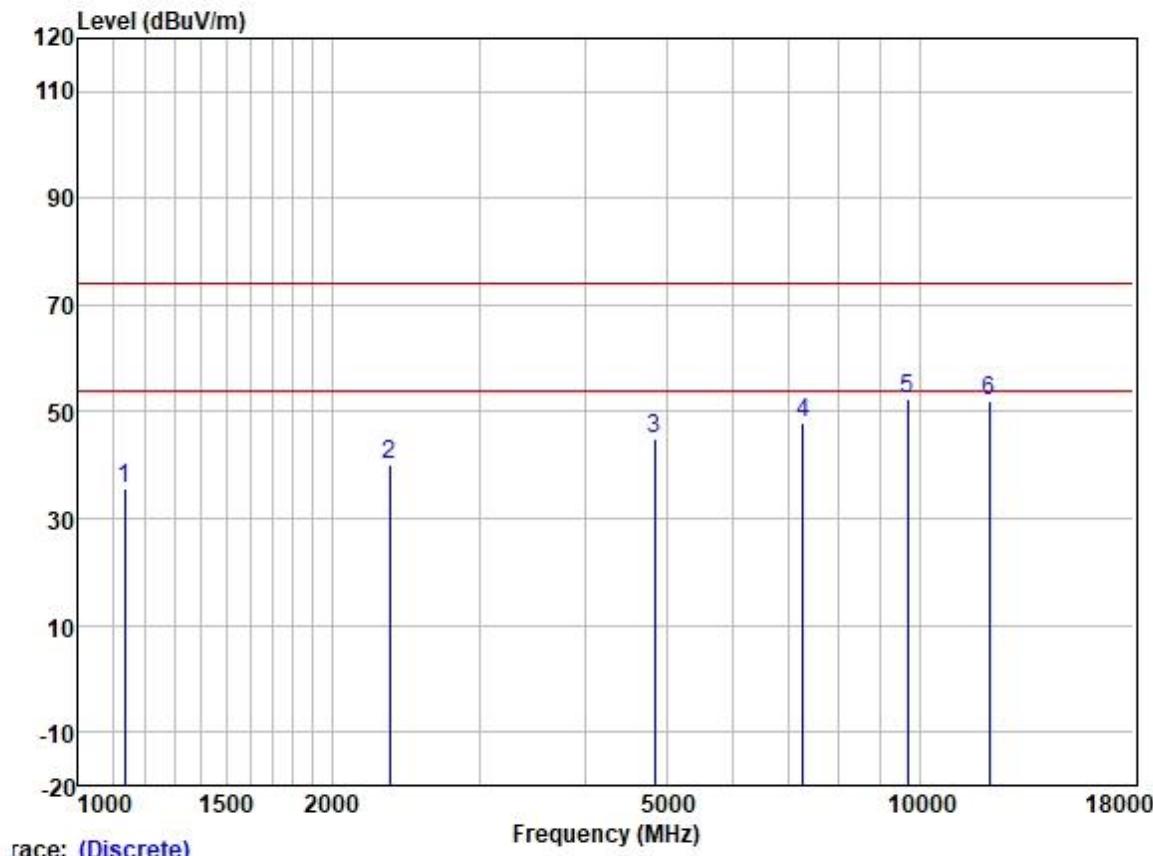
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable Preamp		Limit Line	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Cable Loss Factor				
1	1135.617	47.39	24.45	2.25	38.43	35.66	74.00	-38.34 HORIZONTAL Peak
2	2345.878	47.22	27.24	3.38	37.61	40.23	74.00	-33.77 HORIZONTAL Peak
3	4844.300	44.72	31.50	5.45	36.84	44.83	74.00	-29.17 HORIZONTAL Peak
4	7266.063	43.35	35.78	6.06	37.41	47.78	74.00	-26.22 HORIZONTAL Peak
5	9688.160	44.34	38.44	7.04	37.42	52.40	74.00	-21.60 HORIZONTAL Peak
6	12110.440	41.98	38.83	8.14	37.05	51.90	74.00	-22.10 HORIZONTAL Peak

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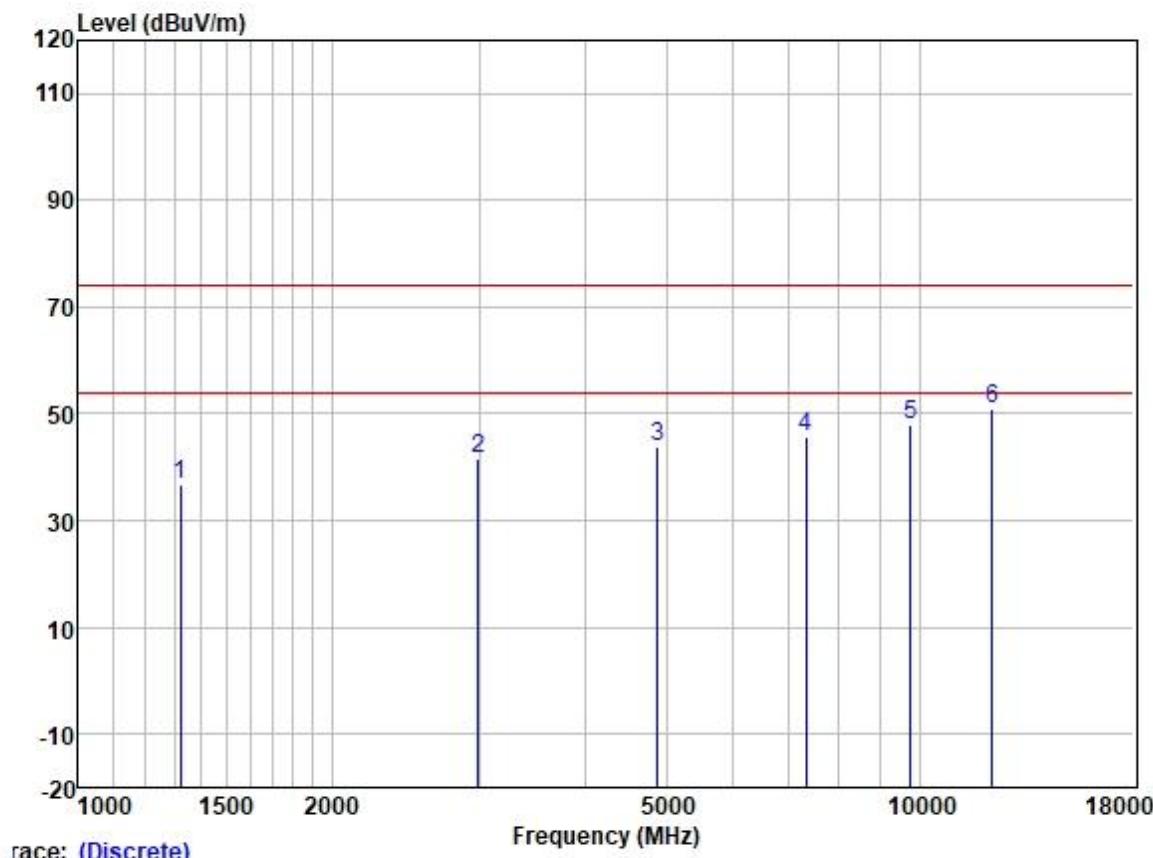
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	Level	Factor	Loss	Factor	dB	dBuV/m	dBuV/m	dB			
1	1323.614	47.15	25.26	2.60	38.29	36.72	74.00	-37.28	VERTICAL	Peak		
2	2990.531	46.66	28.39	3.79	37.25	41.59	74.00	-32.41	VERTICAL	Peak		
3	4884.245	43.73	31.56	5.52	36.84	43.97	74.00	-30.03	VERTICAL	Peak		
4	7326.461	41.18	36.00	6.13	37.43	45.88	74.00	-28.12	VERTICAL	Peak		
5	9768.274	39.83	38.53	7.01	37.41	47.96	74.00	-26.04	VERTICAL	Peak		
6	12210.220	41.16	38.74	8.08	37.00	50.98	74.00	-23.02	VERTICAL	Peak		

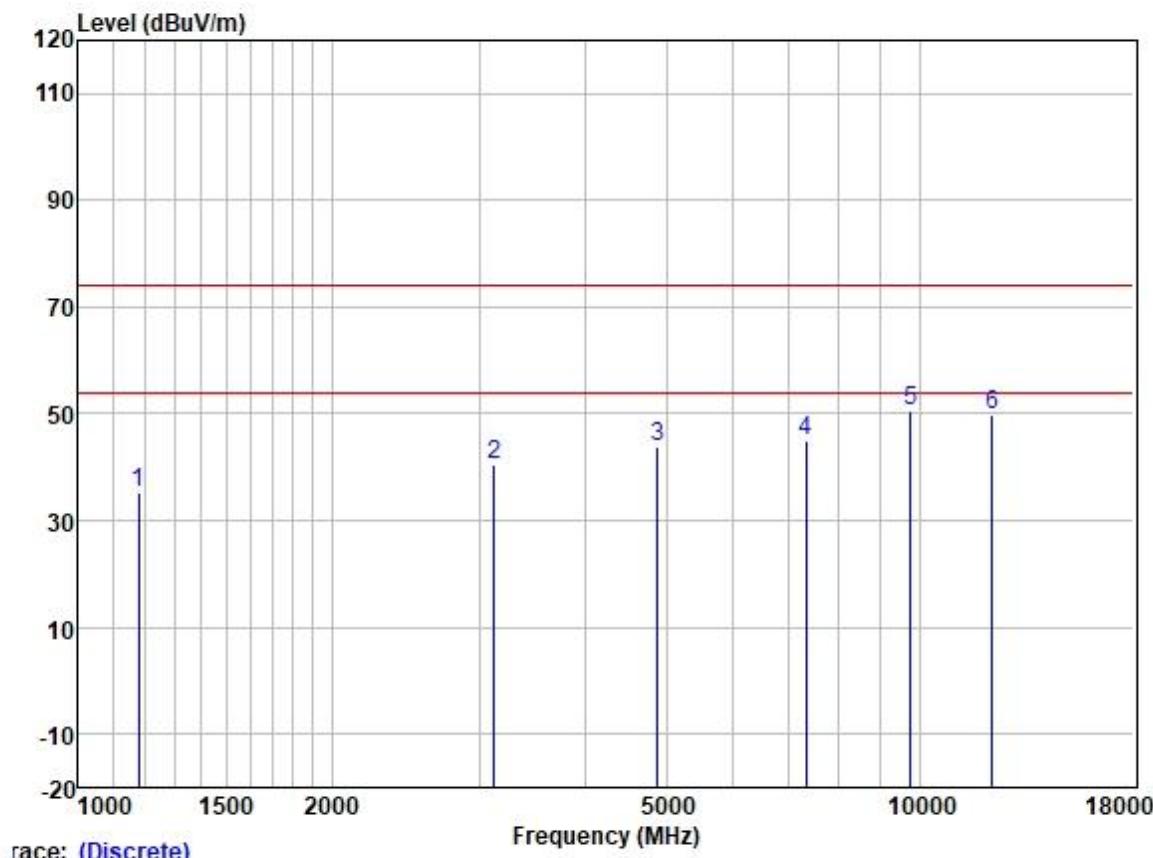
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1179.100	46.76	24.59	2.38	38.40	35.33	74.00	-38.67	HORIZONTAL	Peak		
2	3123.039	45.23	28.50	3.94	37.14	40.53	74.00	-33.47	HORIZONTAL	Peak		
3	4884.214	43.45	31.56	5.52	36.84	43.69	74.00	-30.31	HORIZONTAL	Peak		
4	7326.254	40.31	36.00	6.13	37.43	45.01	74.00	-28.99	HORIZONTAL	Peak		
5	9768.710	42.40	38.53	7.01	37.41	50.53	74.00	-23.47	HORIZONTAL	Peak		
6	12210.710	39.93	38.74	8.08	37.00	49.75	74.00	-24.25	HORIZONTAL	Peak		

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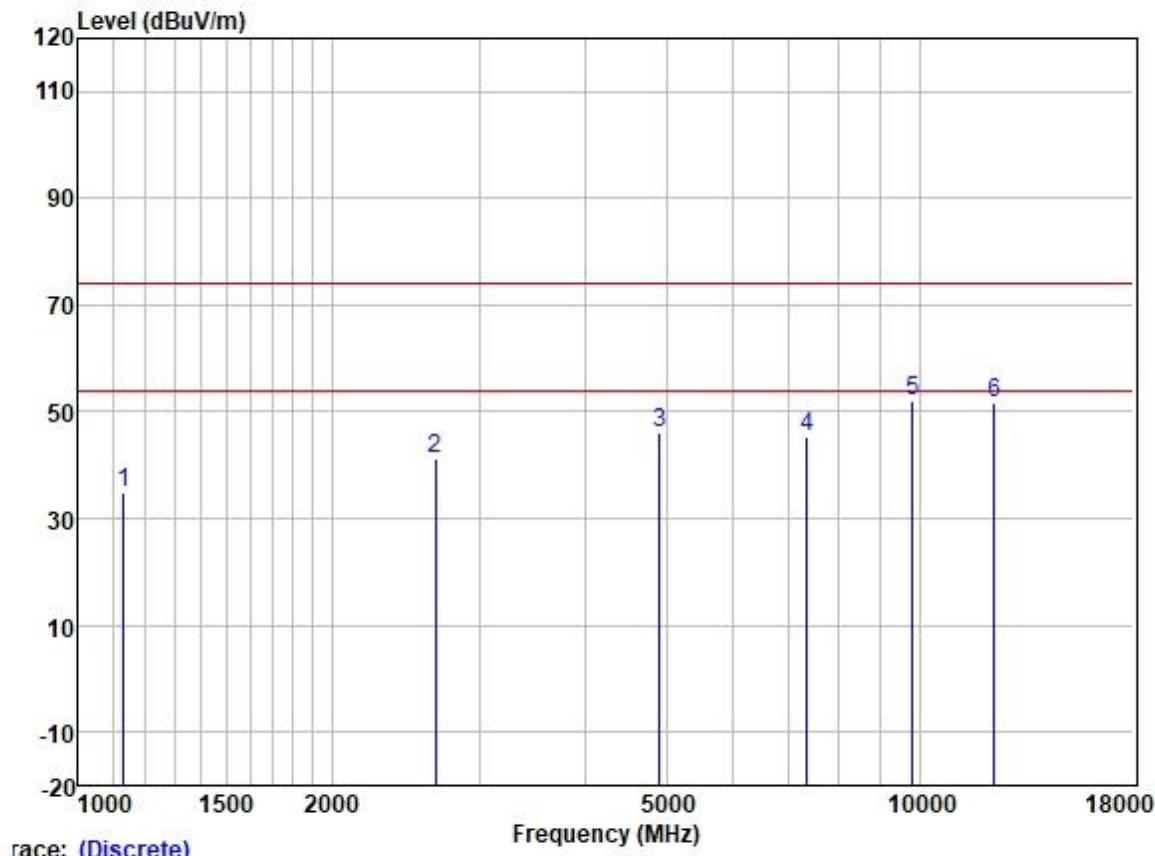
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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1132.340	46.67	24.44	2.22	38.43	34.90	74.00	-39.10	VERTICAL	Peak	
2	2656.331	47.59	27.73	3.55	37.49	41.38	74.00	-32.62	VERTICAL	Peak	
3	4904.137	45.88	31.58	5.55	36.84	46.17	74.00	-27.83	VERTICAL	Peak	
4	7356.020	40.52	36.06	6.15	37.44	45.29	74.00	-28.71	VERTICAL	Peak	
5	9808.310	43.83	38.56	7.00	37.41	51.98	74.00	-22.02	VERTICAL	Peak	
6	12260.300	41.71	38.70	8.06	36.98	51.49	74.00	-22.51	VERTICAL	Peak	

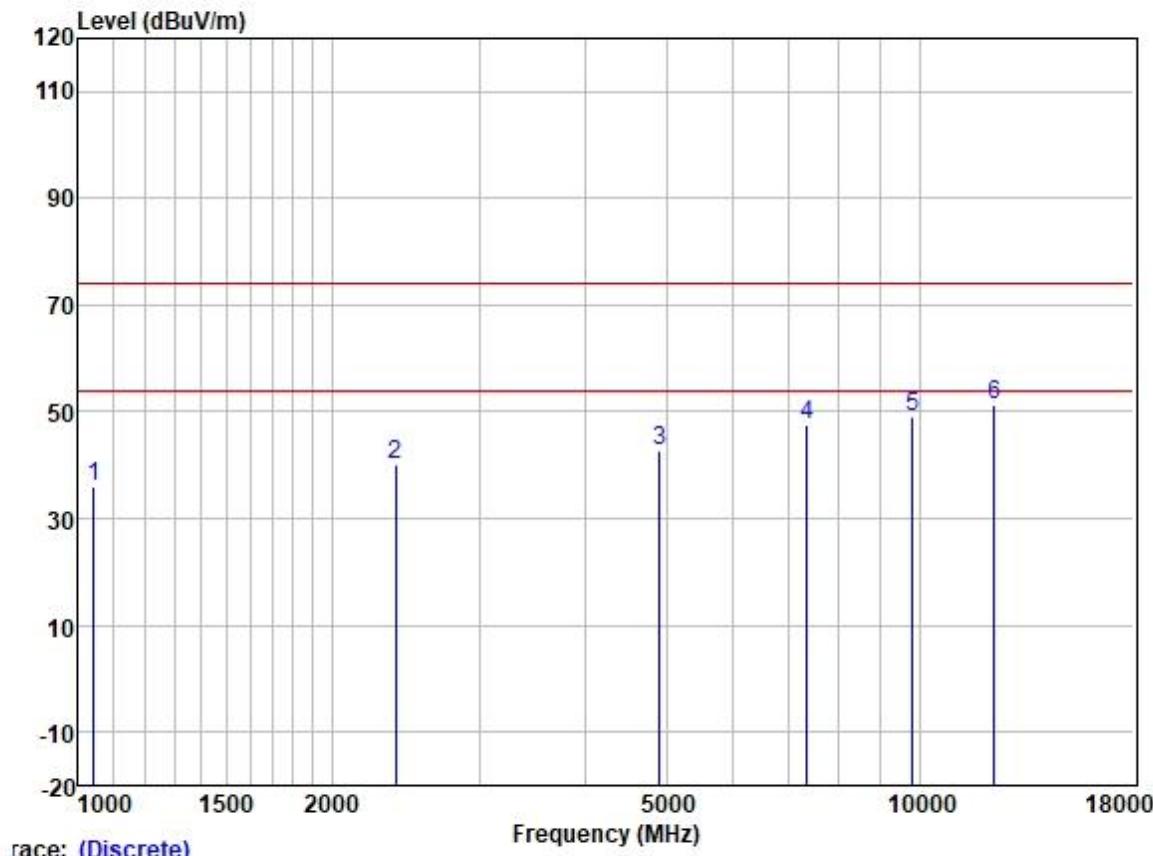
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Test Mode: 02; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1044.309	48.00	24.26	2.38	38.47	36.17	74.00	-37.83	HORIZONTAL	Peak	
2	2380.026	46.88	27.31	3.46	37.60	40.05	74.00	-33.95	HORIZONTAL	Peak	
3	4904.257	42.35	31.58	5.55	36.84	42.64	74.00	-31.36	HORIZONTAL	Peak	
4	7356.695	42.90	36.06	6.15	37.44	47.67	74.00	-26.33	HORIZONTAL	Peak	
5	9808.603	40.93	38.56	7.00	37.41	49.08	74.00	-24.92	HORIZONTAL	Peak	
6	12260.700	41.49	38.70	8.06	36.98	51.27	74.00	-22.73	HORIZONTAL	Peak	

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## 8 Test Setup Photo

Refer to Test Setup Photo for GZCR210802074703



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## 9 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for GZCR2108020747LM



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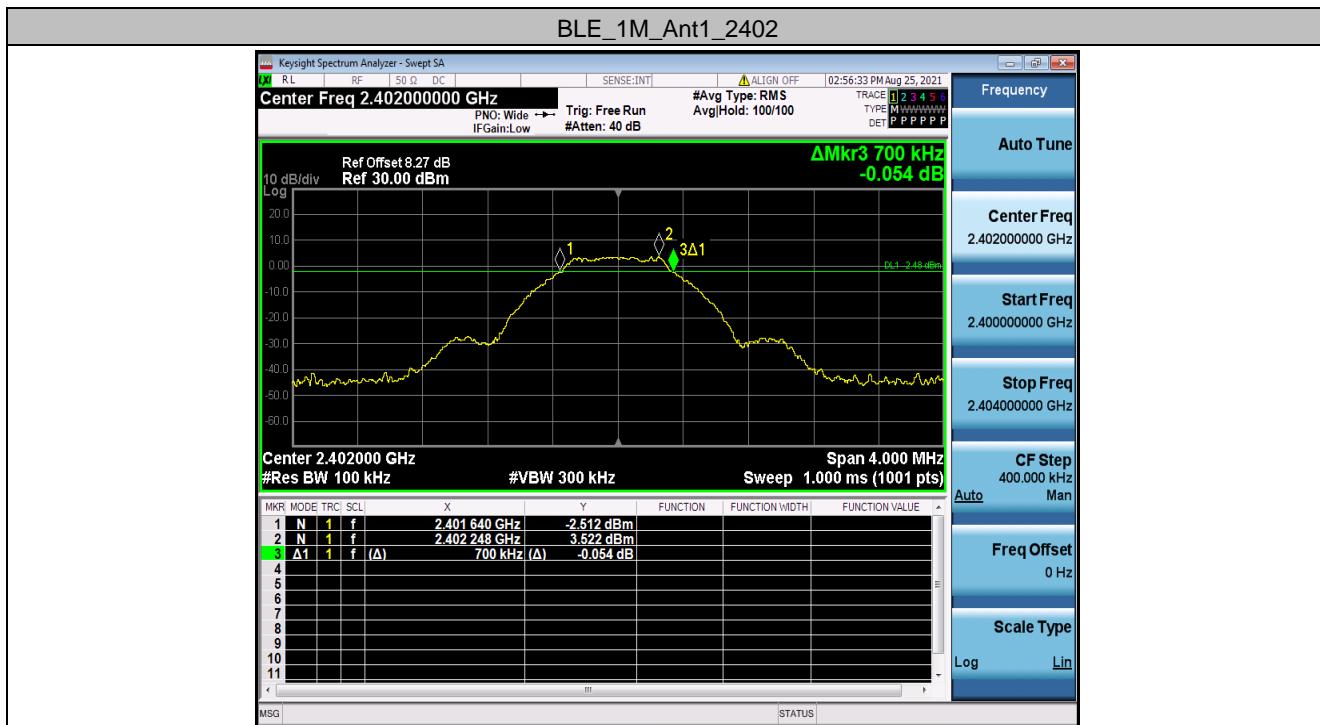
## 10 Appendix

### 10.1 Appendix A: DTS Bandwidth

#### 10.1.1 Test Result

TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.700	2401.640	2402.340	>=0.5	PASS
		2440	0.668	2439.664	2440.332	>=0.5	PASS
		2480	0.684	2479.644	2480.328	>=0.5	PASS
11B	Ant1	2412	8.640	2407.960	2416.600	>=0.5	PASS
		2442	9.760	2437.960	2447.720	>=0.5	PASS
		2462	9.560	2456.600	2466.160	>=0.5	PASS
11G	Ant1	2412	16.160	2404.000	2420.160	>=0.5	PASS
		2442	15.760	2434.400	2450.160	>=0.5	PASS
		2462	16.160	2454.000	2470.160	>=0.5	PASS
11N20SISO	Ant1	2412	15.200	2404.400	2419.600	>=0.5	PASS
		2442	15.120	2434.480	2449.600	>=0.5	PASS
		2462	15.200	2454.400	2469.600	>=0.5	PASS
11N40SISO	Ant1	2422	35.360	2404.320	2439.680	>=0.5	PASS
		2442	35.360	2424.320	2459.680	>=0.5	PASS
		2452	35.360	2434.320	2469.680	>=0.5	PASS

#### 10.1.2 Test Graphs



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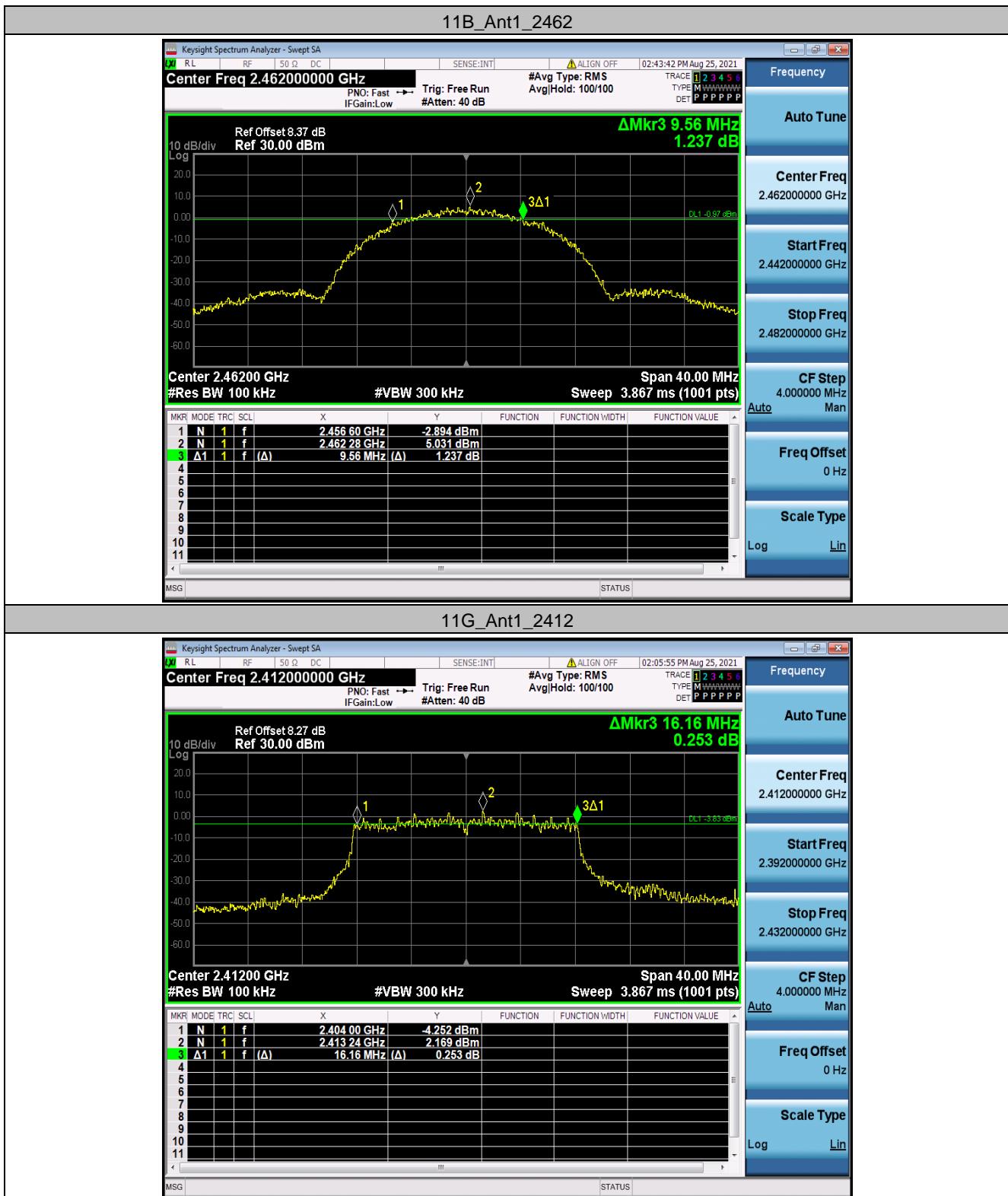




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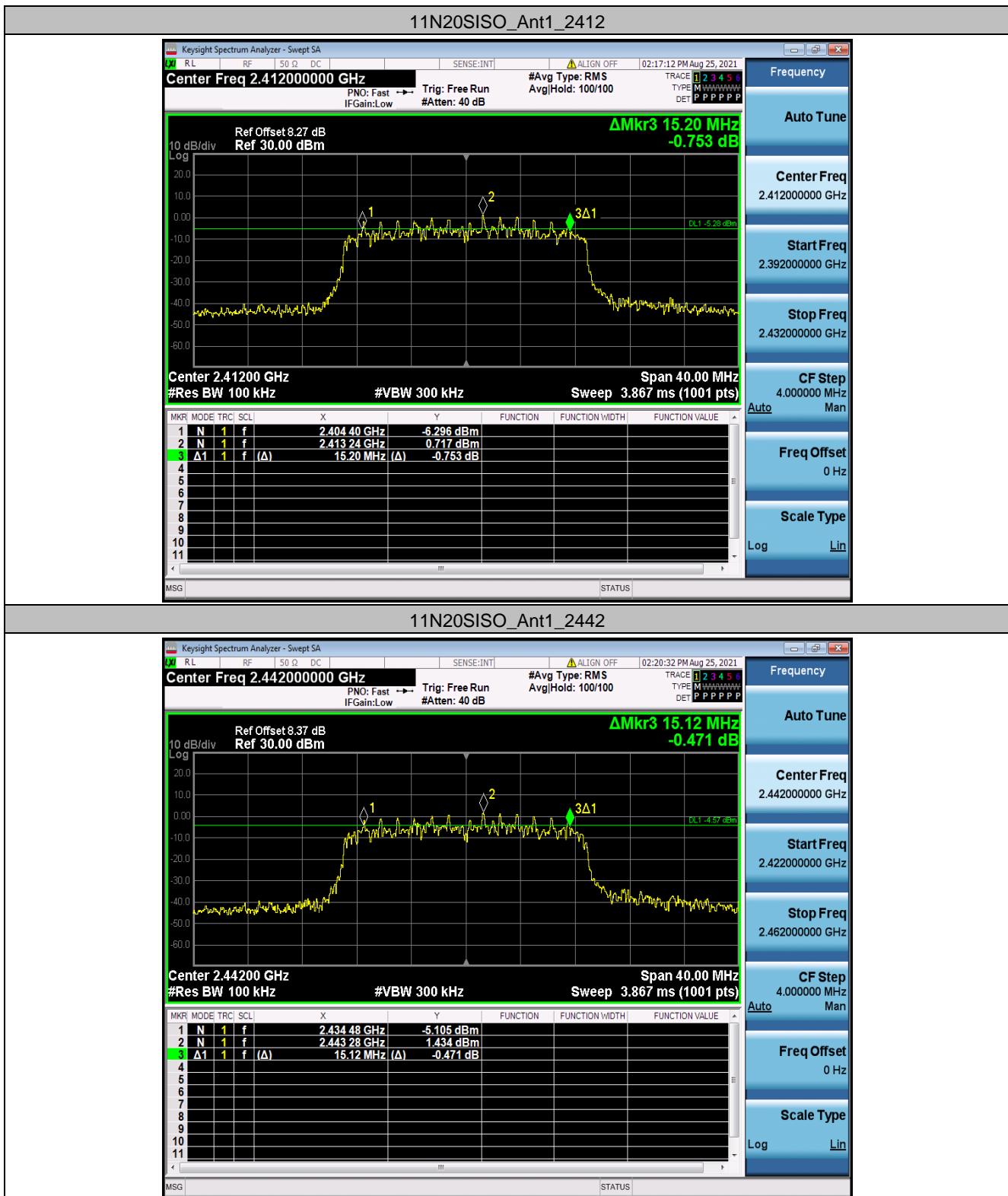




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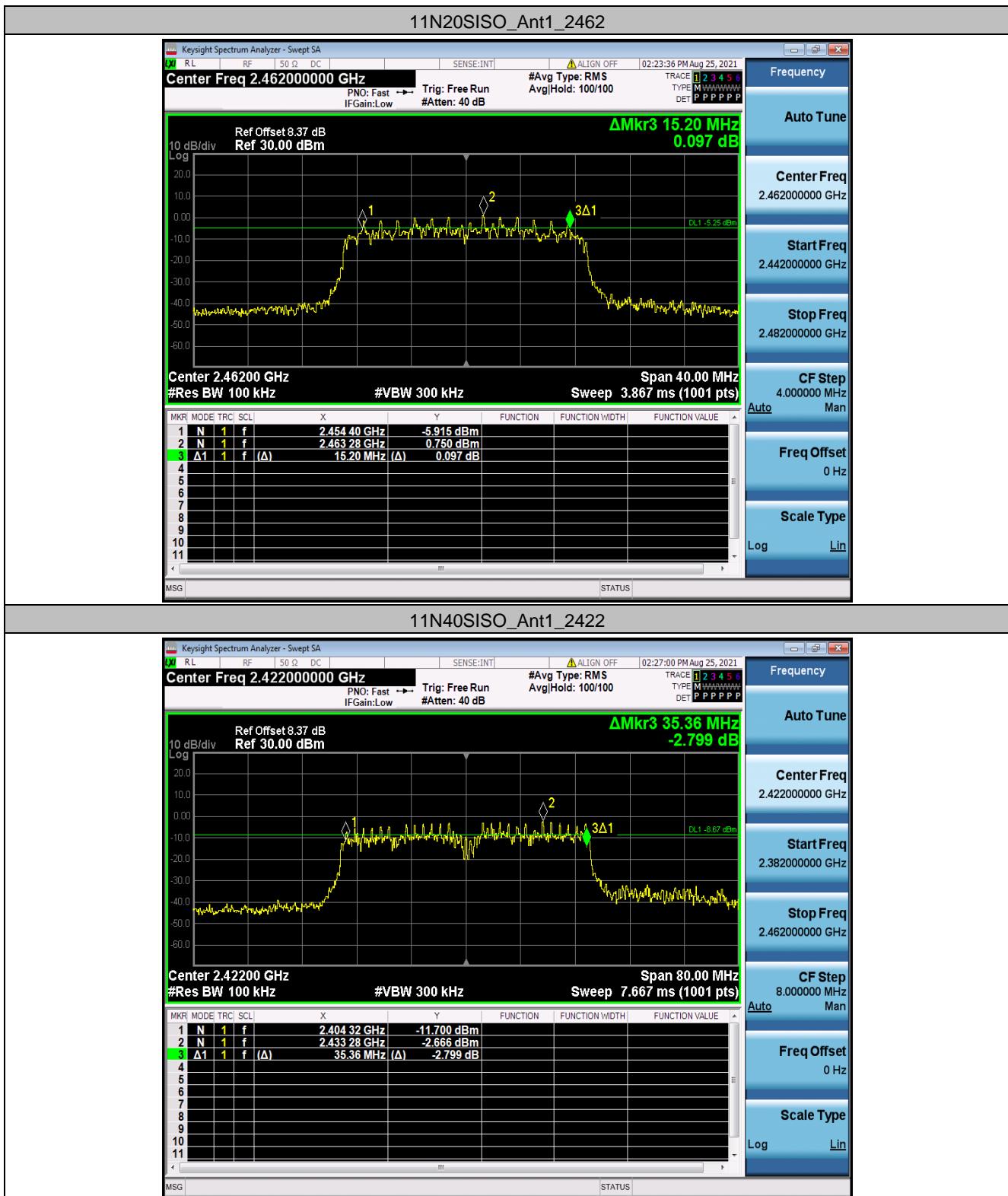




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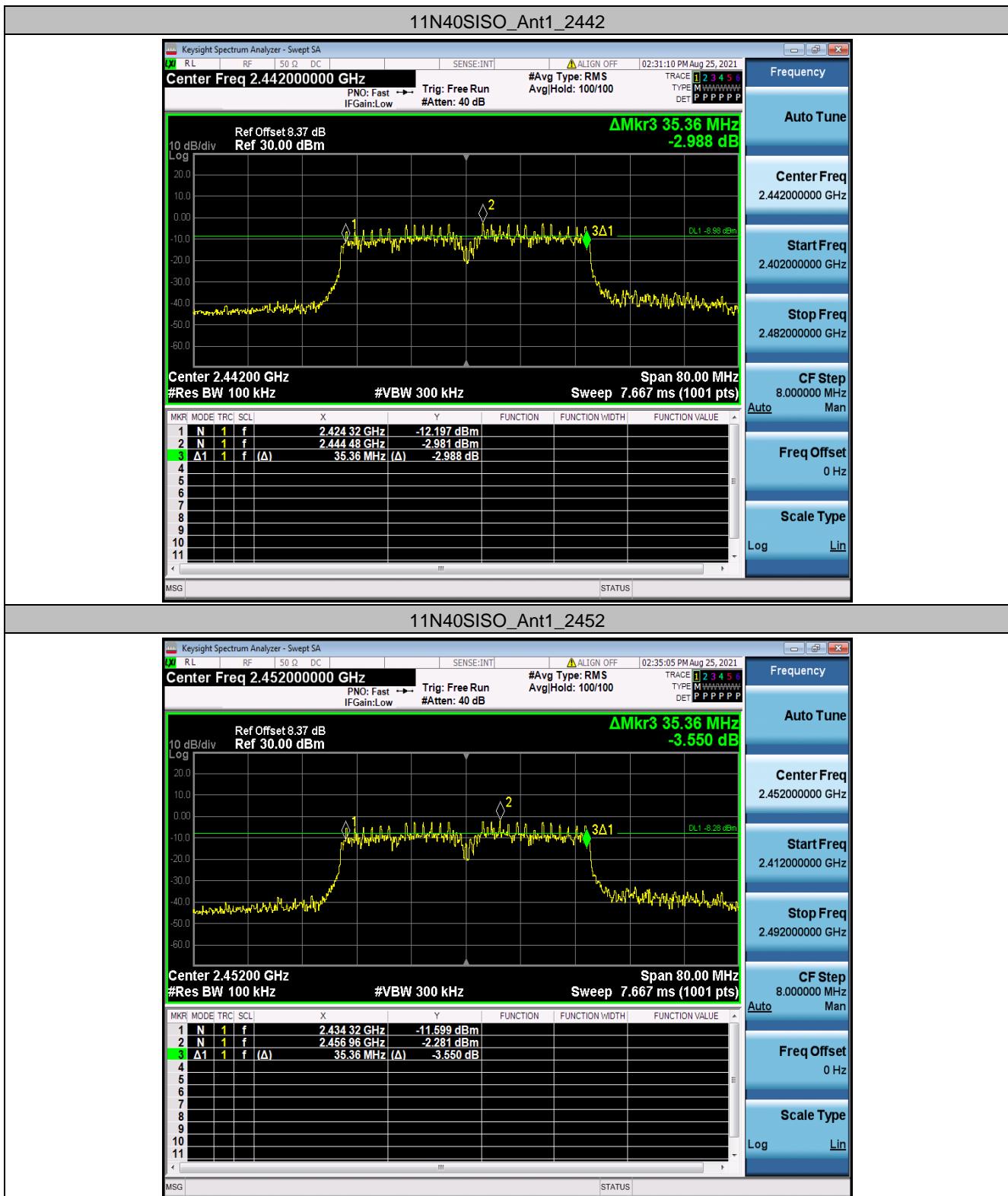




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**10.2 Appendix B: Maximum conducted output power****10.2.1 Test Result**

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	4.55	<=30	PASS
		2440	3.77	<=30	PASS
		2480	4.57	<=30	PASS
11B	Ant1	2412	14.04	<=30	PASS
		2442	14.46	<=30	PASS
		2462	14.41	<=30	PASS
11G	Ant1	2412	12.25	<=30	PASS
		2442	12.57	<=30	PASS
		2462	12.27	<=30	PASS
11N20SISO	Ant1	2412	10.83	<=30	PASS
		2442	11.65	<=30	PASS
		2462	11.13	<=30	PASS
11N40SISO	Ant1	2422	10.70	<=30	PASS
		2442	10.64	<=30	PASS
		2452	10.89	<=30	PASS

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**10.3 Appendix C: Maximum power spectral density****10.3.1 Test Result**

TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-5.25	<=8	PASS
		2440	-6.18	<=8	PASS
		2480	-5.3	<=8	PASS
11B	Ant1	2412	-10.62	<=8	PASS
		2442	-10.21	<=8	PASS
		2462	-10.1	<=8	PASS
11G	Ant1	2412	-11.66	<=8	PASS
		2442	-9.12	<=8	PASS
		2462	-11.61	<=8	PASS
11N20SISO	Ant1	2412	-9.03	<=8	PASS
		2442	-8.72	<=8	PASS
		2462	-9.02	<=8	PASS
11N40SISO	Ant1	2422	-12.6	<=8	PASS
		2442	-12.65	<=8	PASS
		2452	-12.28	<=8	PASS

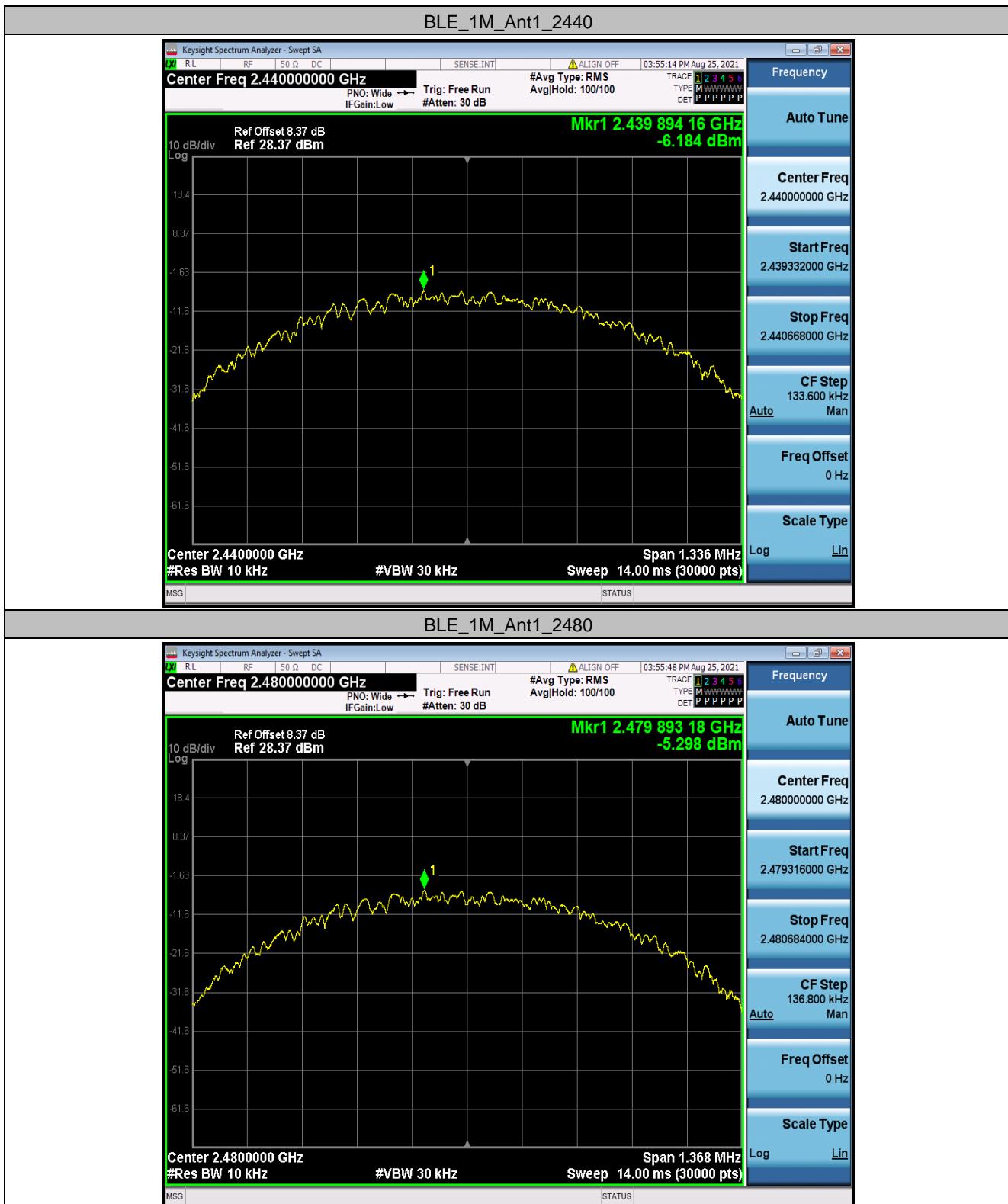
**10.3.2 Test Graphs**

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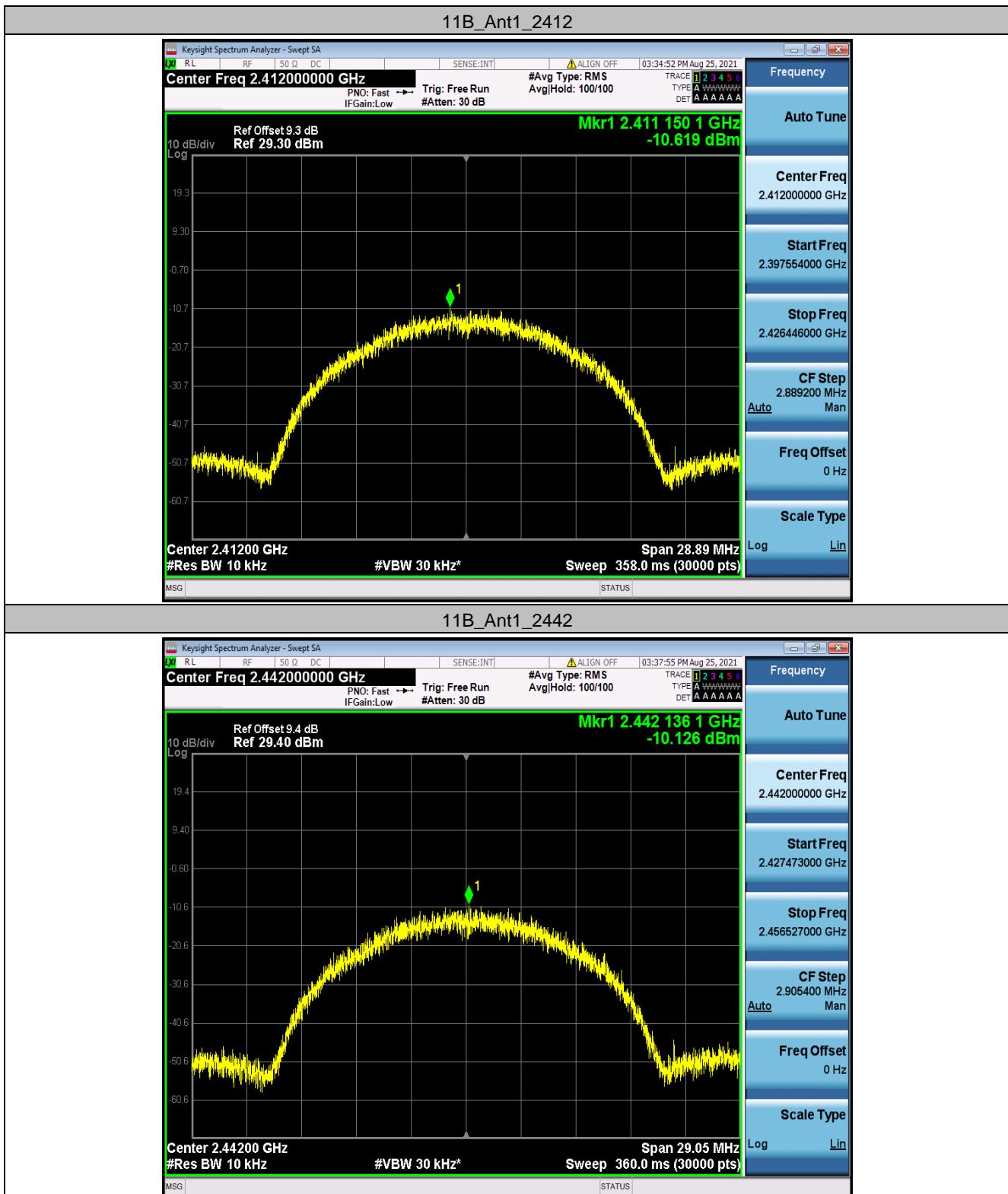
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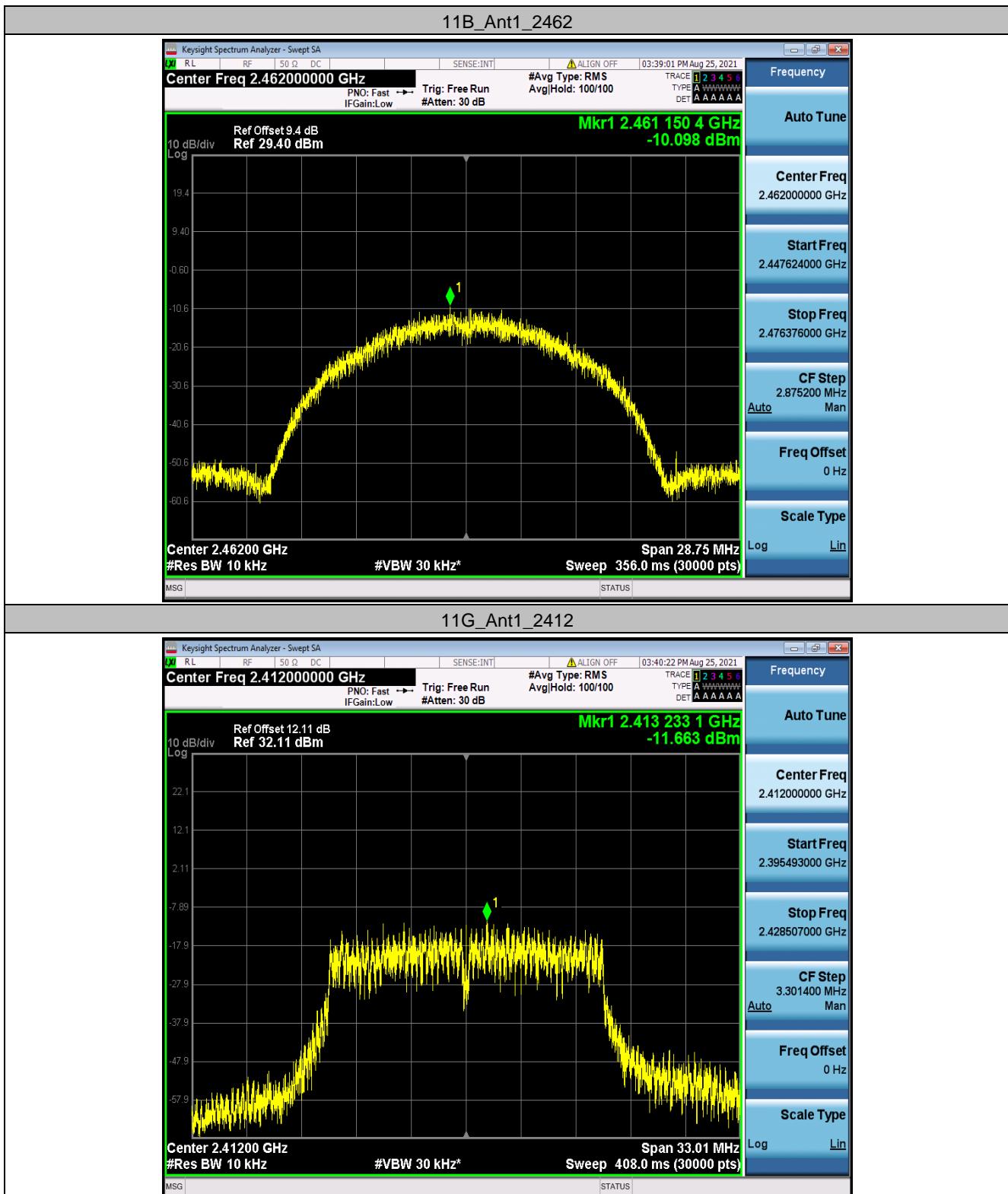
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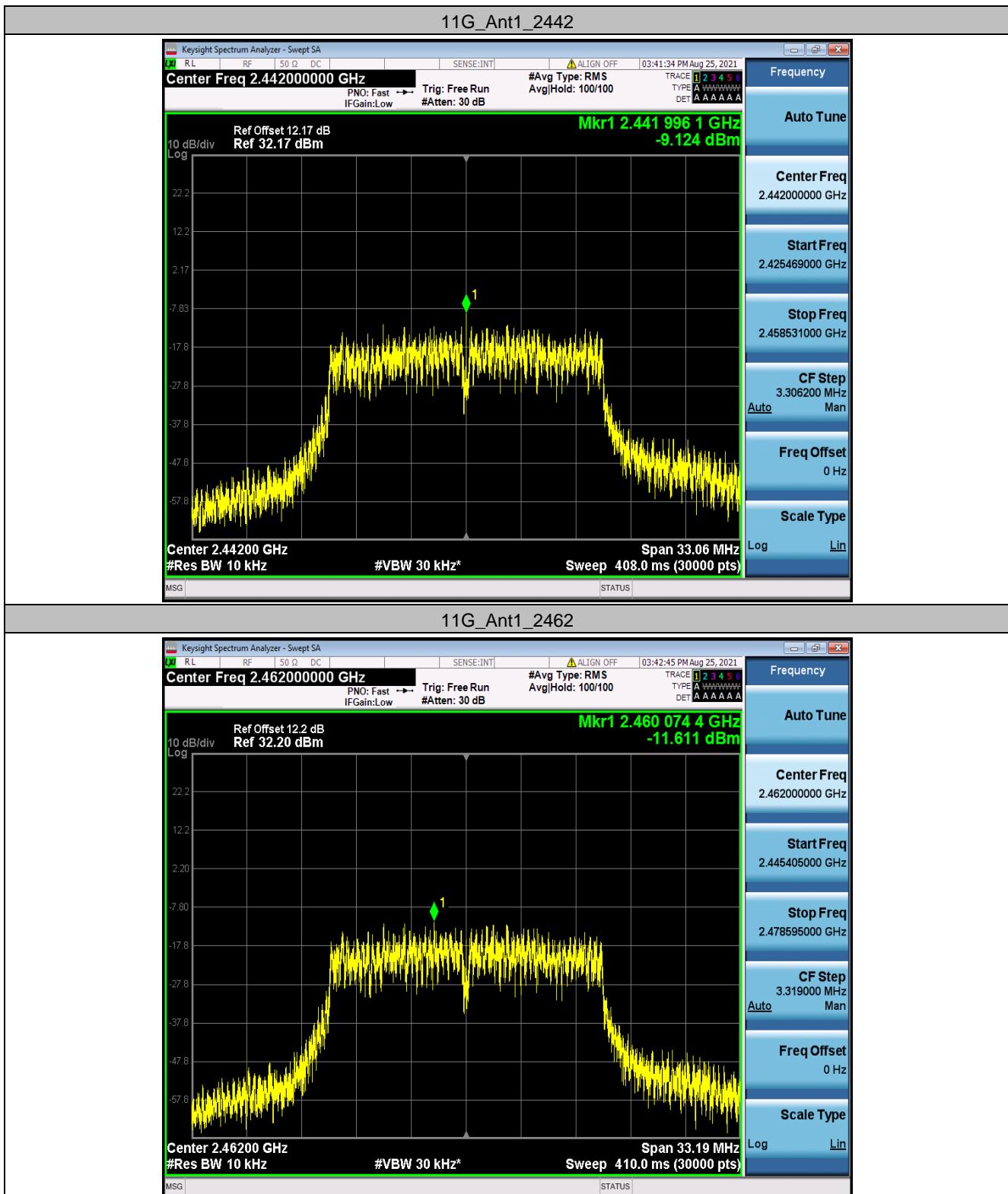
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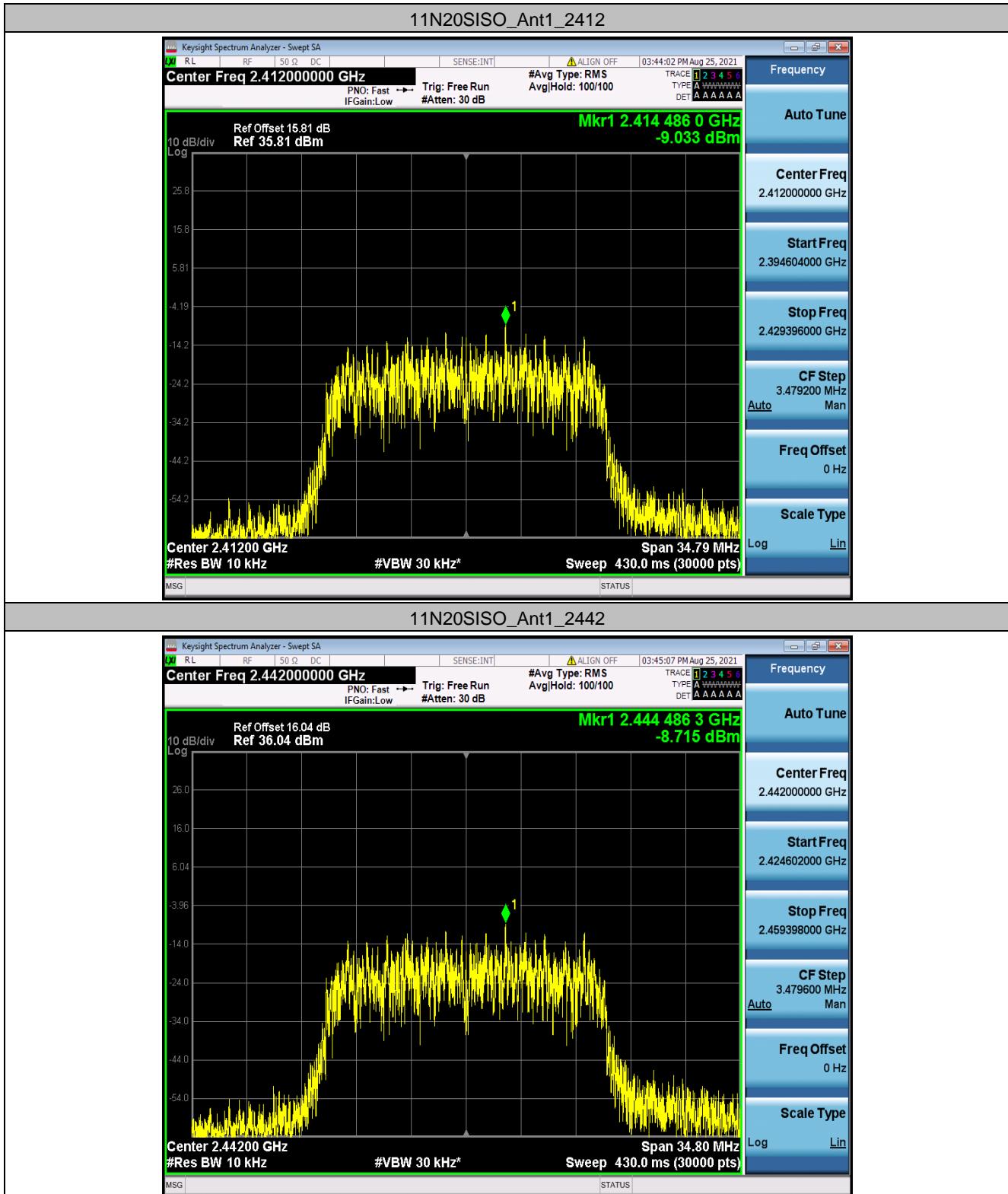


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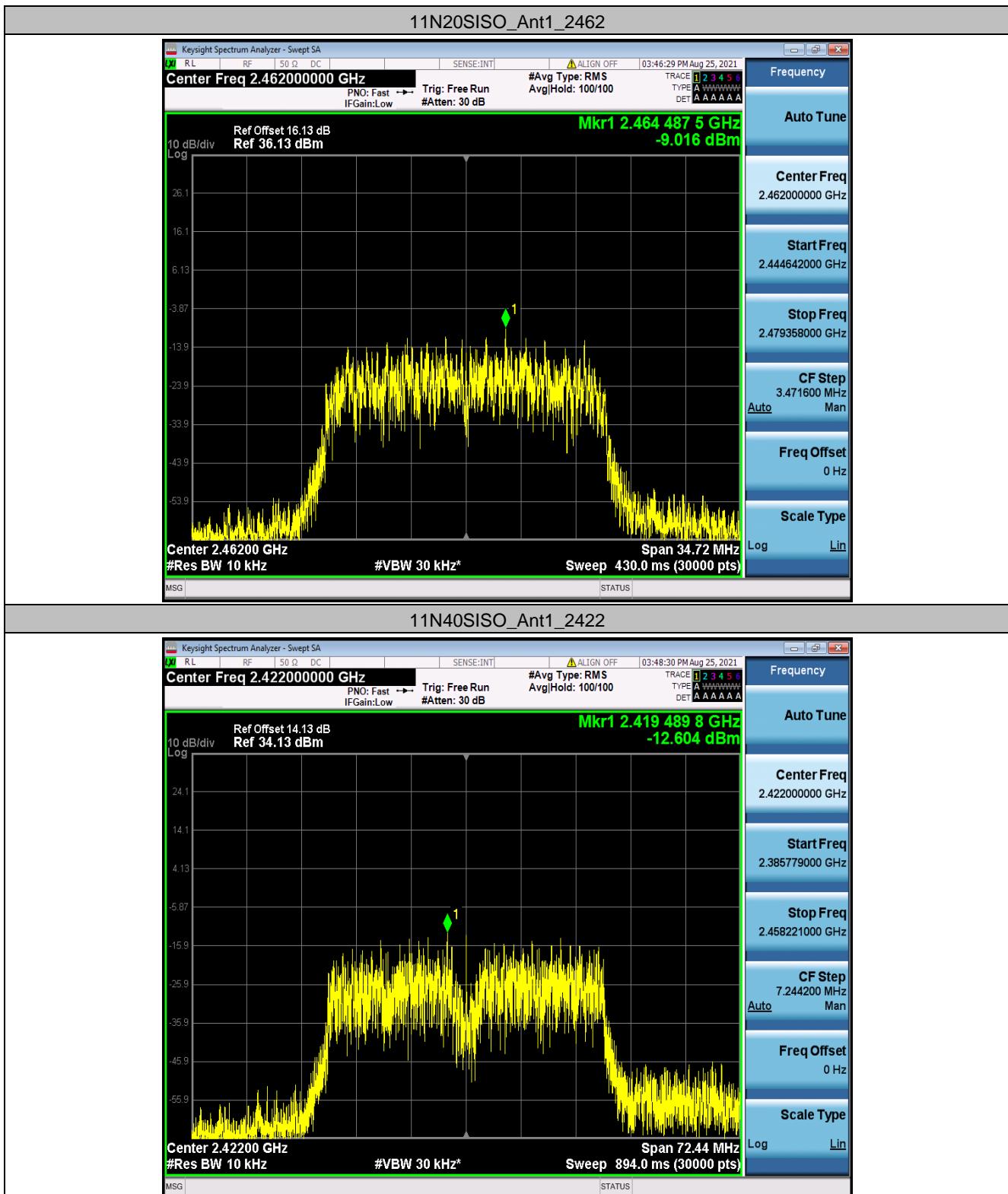
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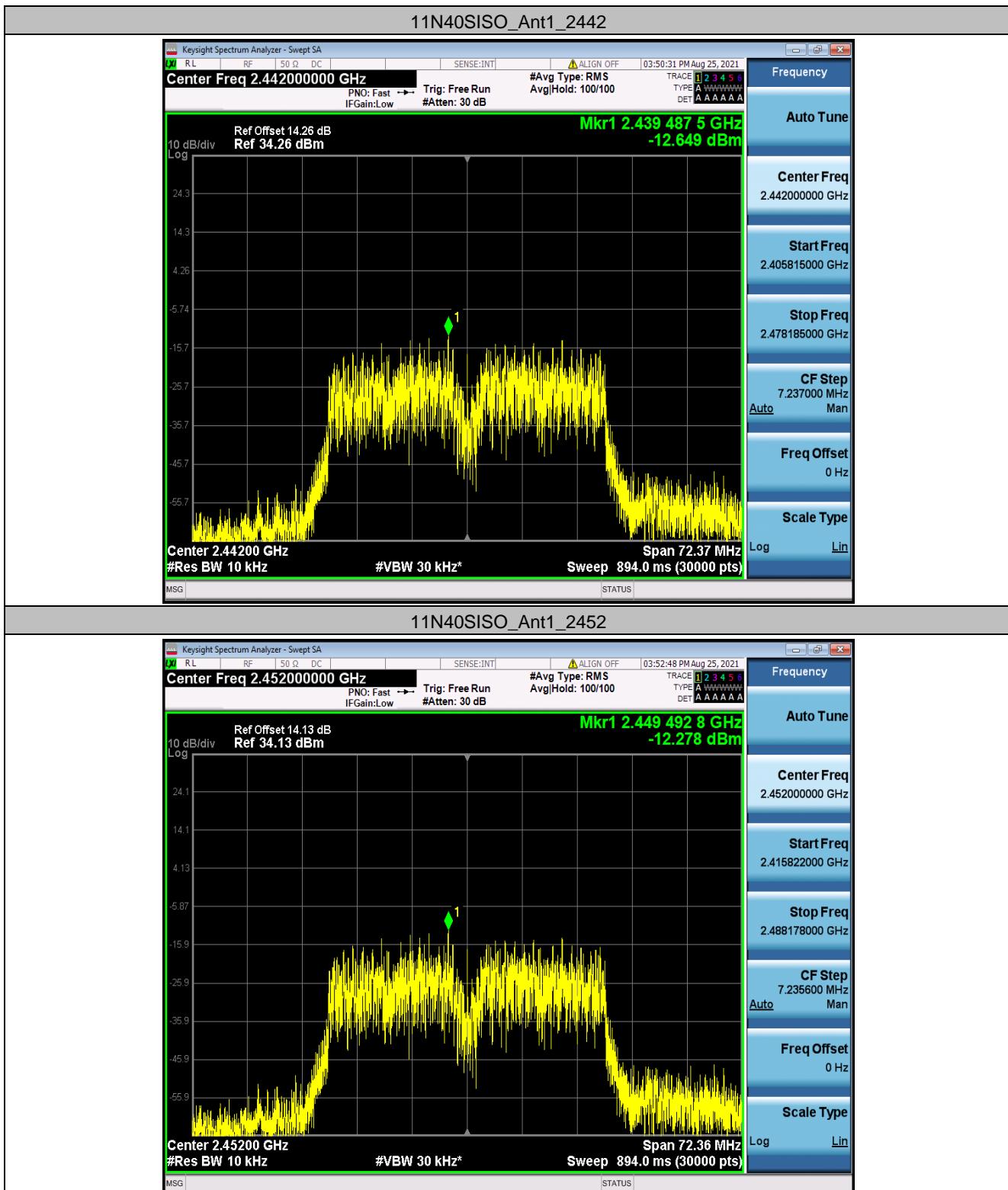
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**10.4 Appendix D: Band edge measurements****10.4.1 Test Result**

TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	Low	2402	4.13	-47.57	<=-15.87	PASS
		High	2480	3.95	-50.02	<=-16.05	PASS
11B	Ant1	Low	2412	5.24	-30.31	<=-24.77	PASS
		High	2462	5.65	-49.68	<=-24.35	PASS
11G	Ant1	Low	2412	2.19	-36.16	<=-27.81	PASS
		High	2462	2.18	-43.71	<=-27.82	PASS
11N20SISO	Ant1	Low	2412	0.69	-40.71	<=-29.32	PASS
		High	2462	0.75	-47.68	<=-29.25	PASS
11N40SISO	Ant1	Low	2422	-3.04	-40.02	<=-33.04	PASS
		High	2452	-2.35	-35.45	<=-32.35	PASS

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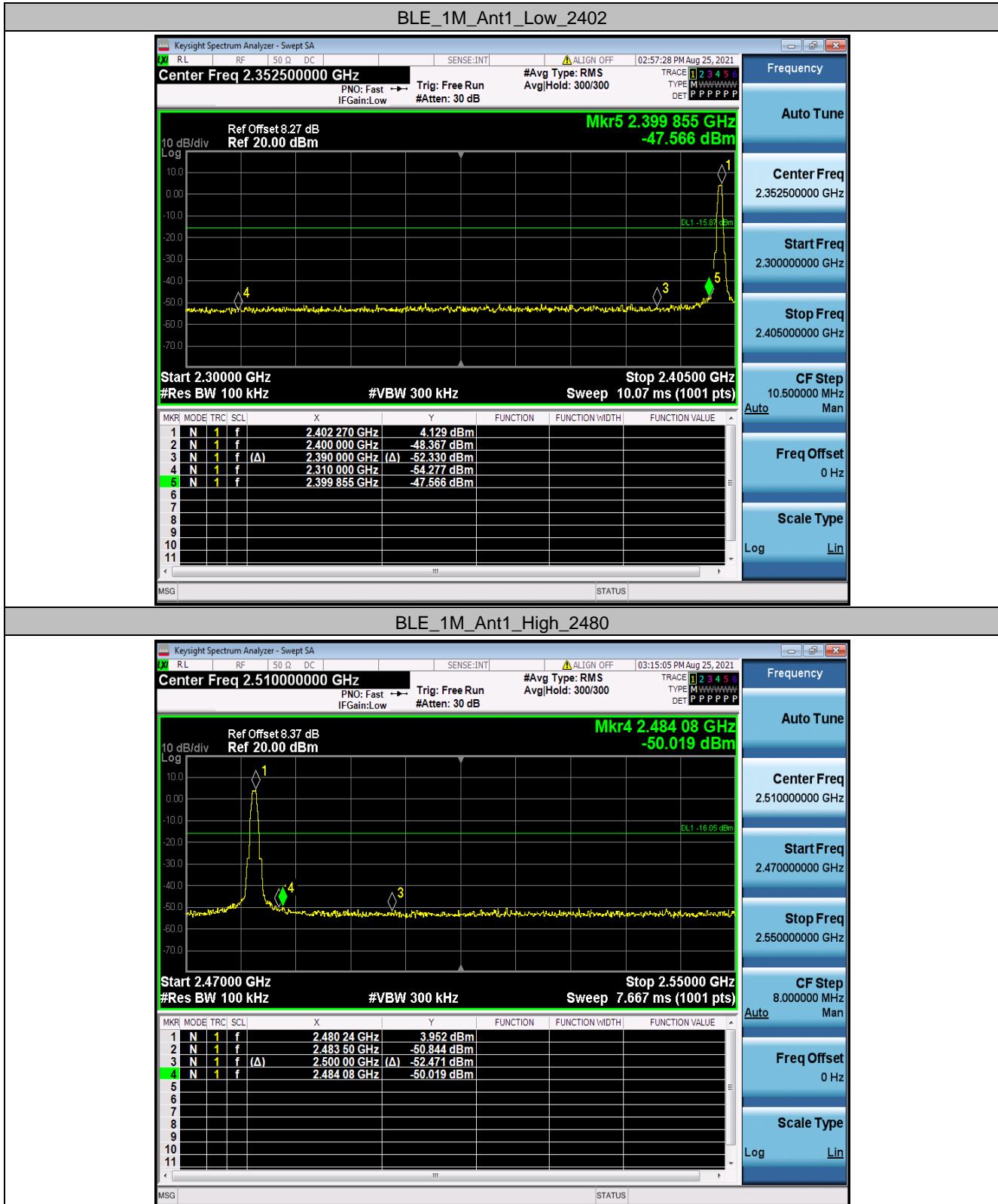


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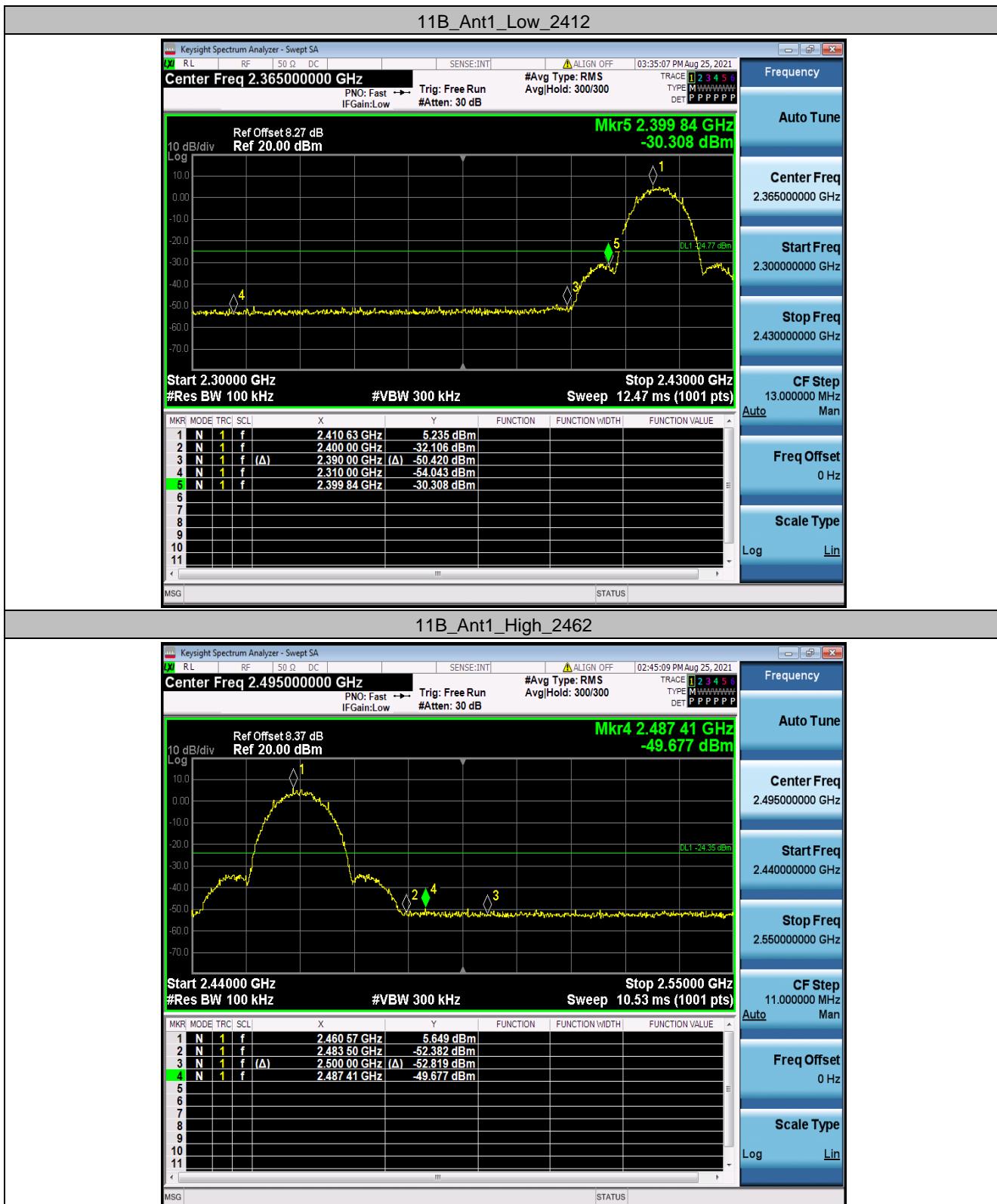
## 10.4.2 Test Graphs



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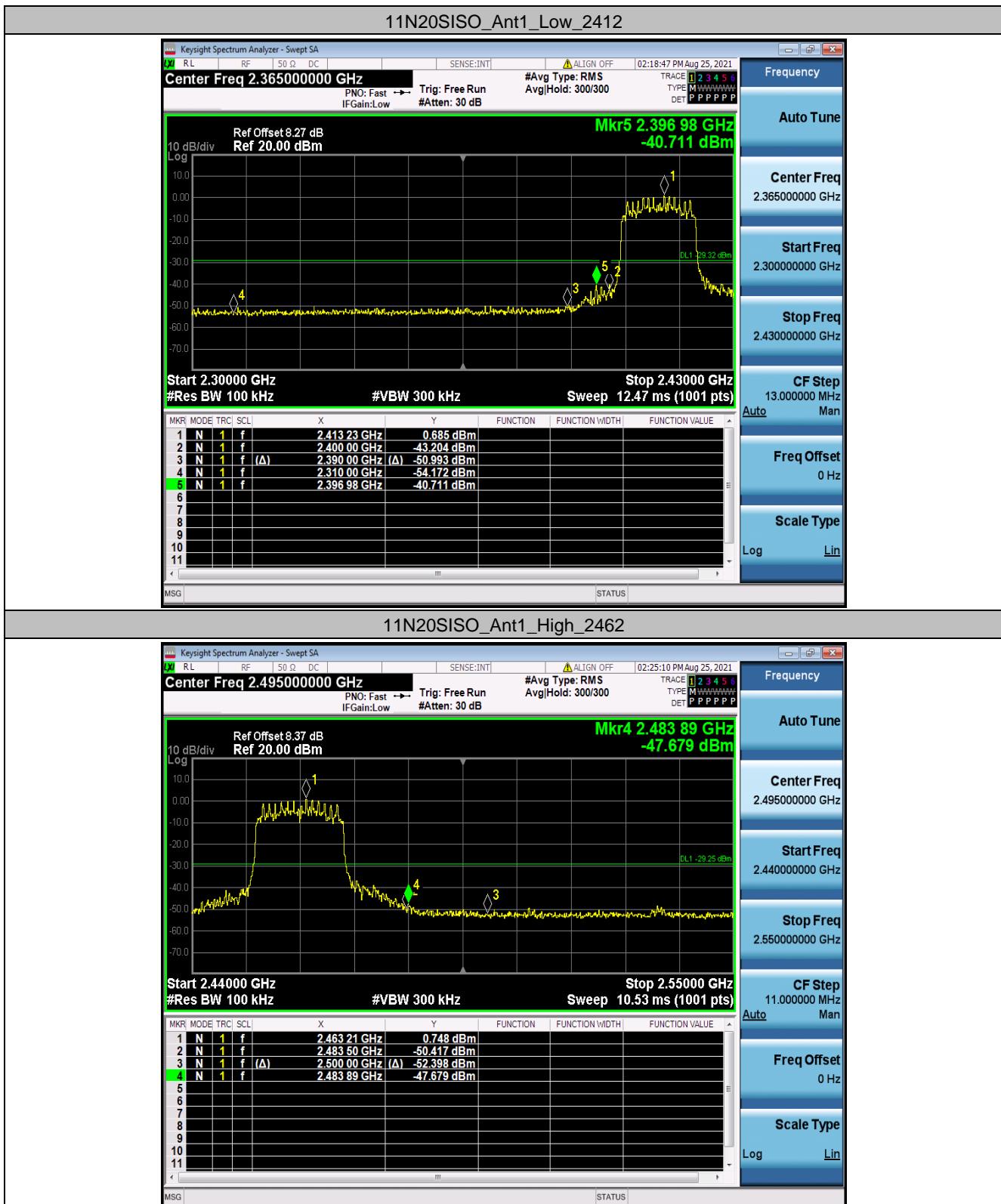




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## 10.5 Appendix E: Conducted Spurious Emission

## 10.5.1 Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
BLE_1M	Ant1	2402	Reference	3.63	3.63	---	PASS
			30~1000	30~1000	-62.946	<=-16.367	PASS
			1000~26500	1000~26500	-53.174	<=-16.367	PASS
		2440	Reference	3.01	3.01	---	PASS
			30~1000	30~1000	-61.876	<=-16.994	PASS
			1000~26500	1000~26500	-52.977	<=-16.994	PASS
		2480	Reference	3.82	3.82	---	PASS
			30~1000	30~1000	-62.465	<=-16.183	PASS
			1000~26500	1000~26500	-52.55	<=-16.183	PASS
11B	Ant1	2412	Reference	5.05	5.05	---	PASS
			30~1000	30~1000	-62.337	<=-14.955	PASS
			1000~26500	1000~26500	-53.477	<=-14.955	PASS
		2442	Reference	4.34	4.34	---	PASS
			30~1000	30~1000	-62.411	<=-15.658	PASS
			1000~26500	1000~26500	-52.599	<=-15.658	PASS
		2462	Reference	5.13	5.13	---	PASS
			30~1000	30~1000	-62.402	<=-14.869	PASS
			1000~26500	1000~26500	-47.081	<=-14.869	PASS
11G	Ant1	2412	Reference	1.97	1.97	---	PASS
			30~1000	30~1000	-62.589	<=-18.033	PASS
			1000~26500	1000~26500	-51.476	<=-18.033	PASS
		2442	Reference	2.09	2.09	---	PASS
			30~1000	30~1000	-63.029	<=-17.907	PASS
			1000~26500	1000~26500	-50.953	<=-17.907	PASS
		2462	Reference	2.15	2.15	---	PASS
			30~1000	30~1000	-63.06	<=-17.853	PASS
			1000~26500	1000~26500	-52.689	<=-17.853	PASS
11N20SISO	Ant1	2412	Reference	0.33	0.33	---	PASS
			30~1000	30~1000	-62.28	<=-19.673	PASS
			1000~26500	1000~26500	-52.726	<=-19.673	PASS
		2442	Reference	1.40	1.40	---	PASS
			30~1000	30~1000	-63.235	<=-18.605	PASS
			1000~26500	1000~26500	-53.401	<=-18.605	PASS
		2462	Reference	0.54	0.54	---	PASS
			30~1000	30~1000	-62.379	<=-19.464	PASS
			1000~26500	1000~26500	-52.787	<=-19.464	PASS
11N40SISO	Ant1	2422	Reference	-2.79	-2.79	---	PASS
			30~1000	30~1000	-62.593	<=-22.792	PASS
			1000~26500	1000~26500	-53.095	<=-22.792	PASS
		2442	Reference	-2.89	-2.89	---	PASS
			30~1000	30~1000	-62.885	<=-22.89	PASS
			1000~26500	1000~26500	-52.784	<=-22.89	PASS
		2452	Reference	-2.40	-2.40	---	PASS
			30~1000	30~1000	-62.811	<=-22.405	PASS
			1000~26500	1000~26500	-53.232	<=-22.405	PASS

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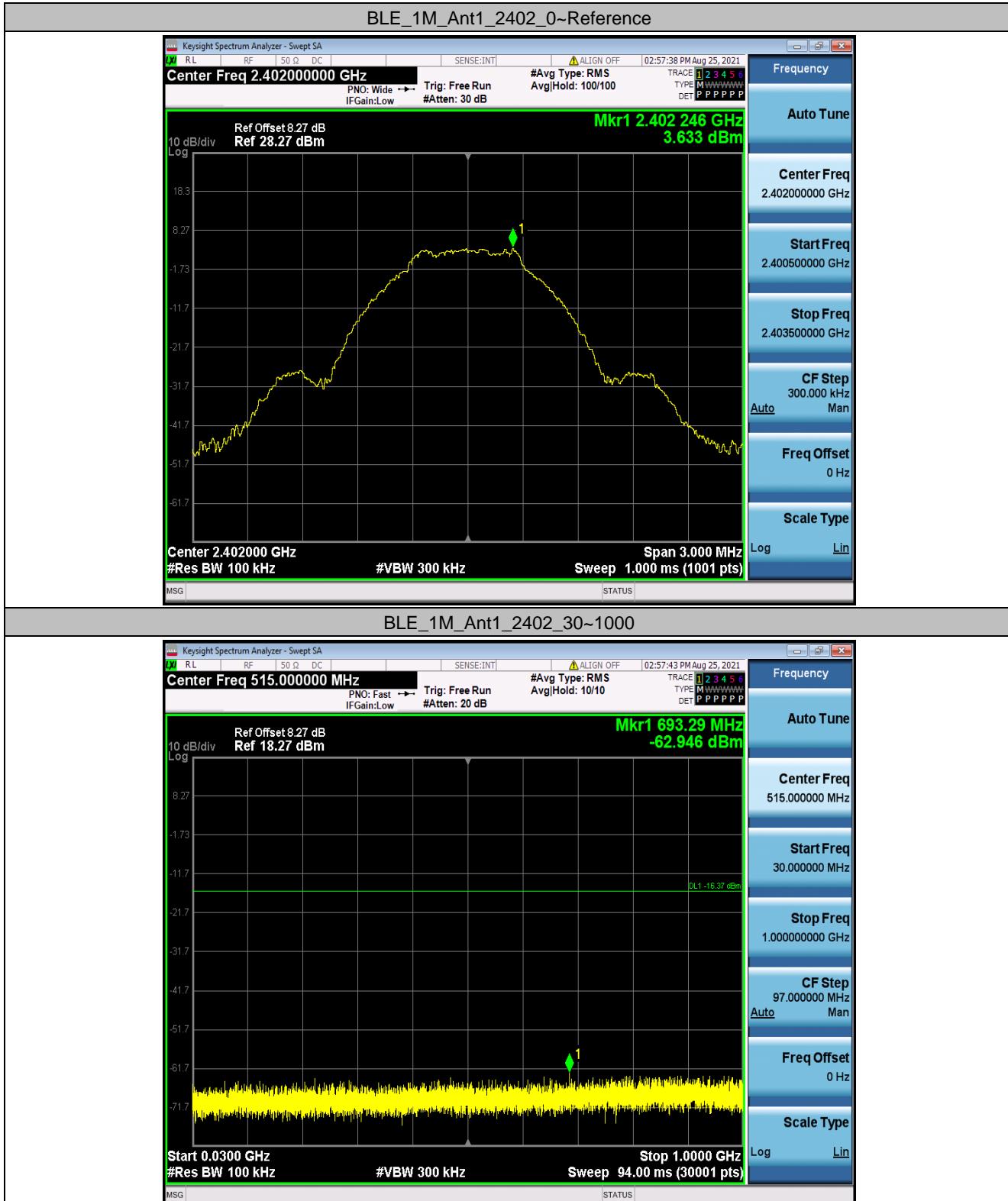
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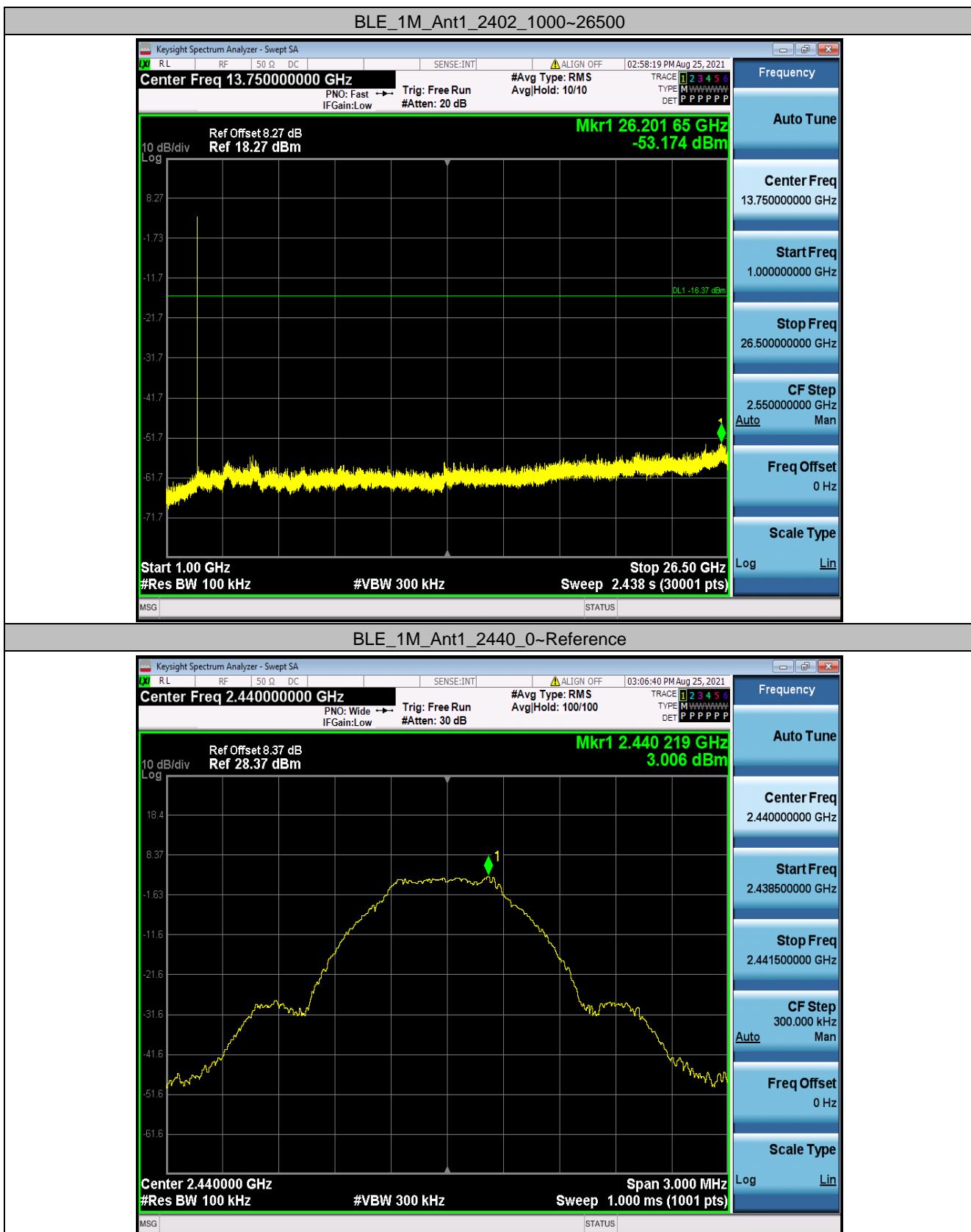
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## 10.5.2 Test Graphs



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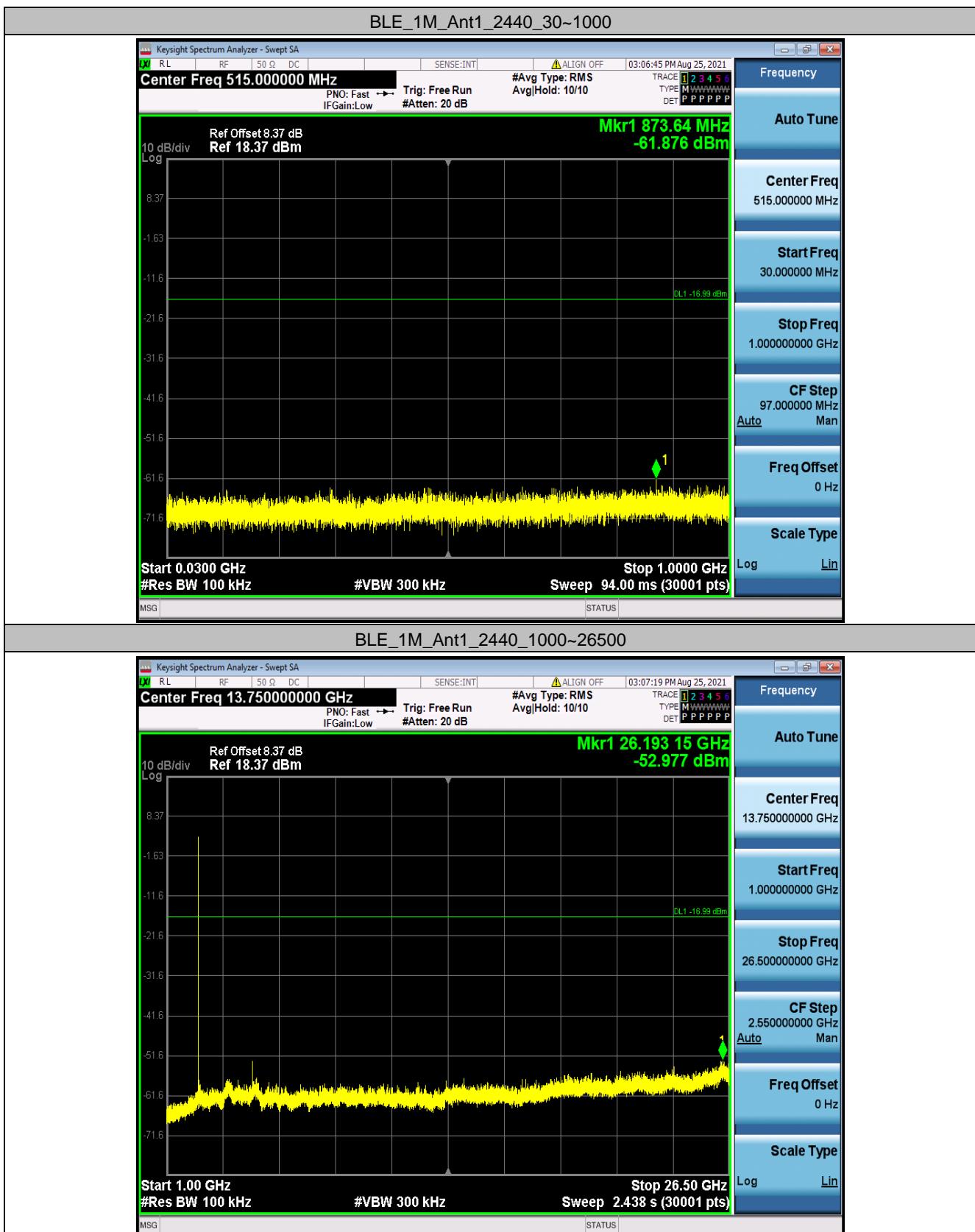
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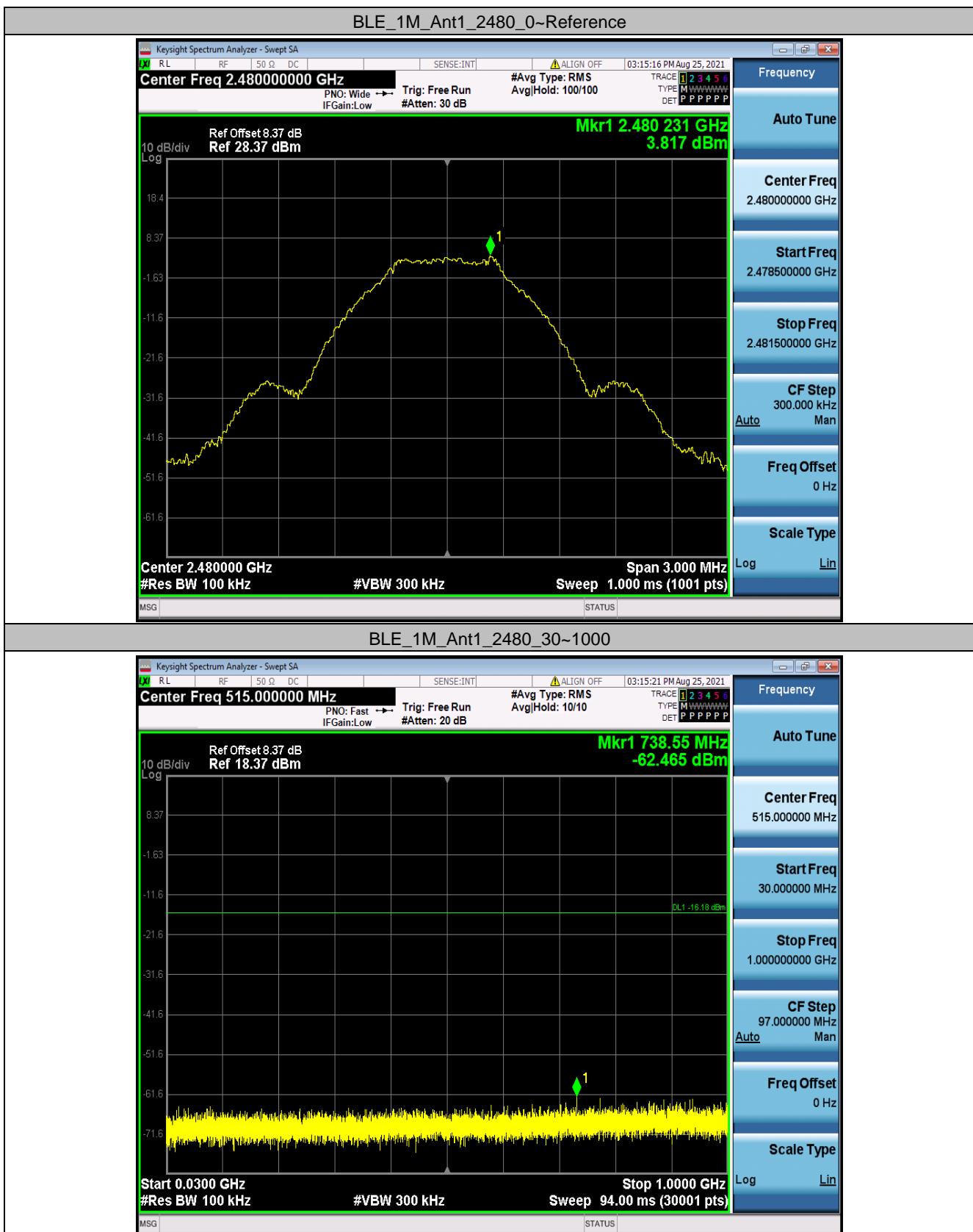




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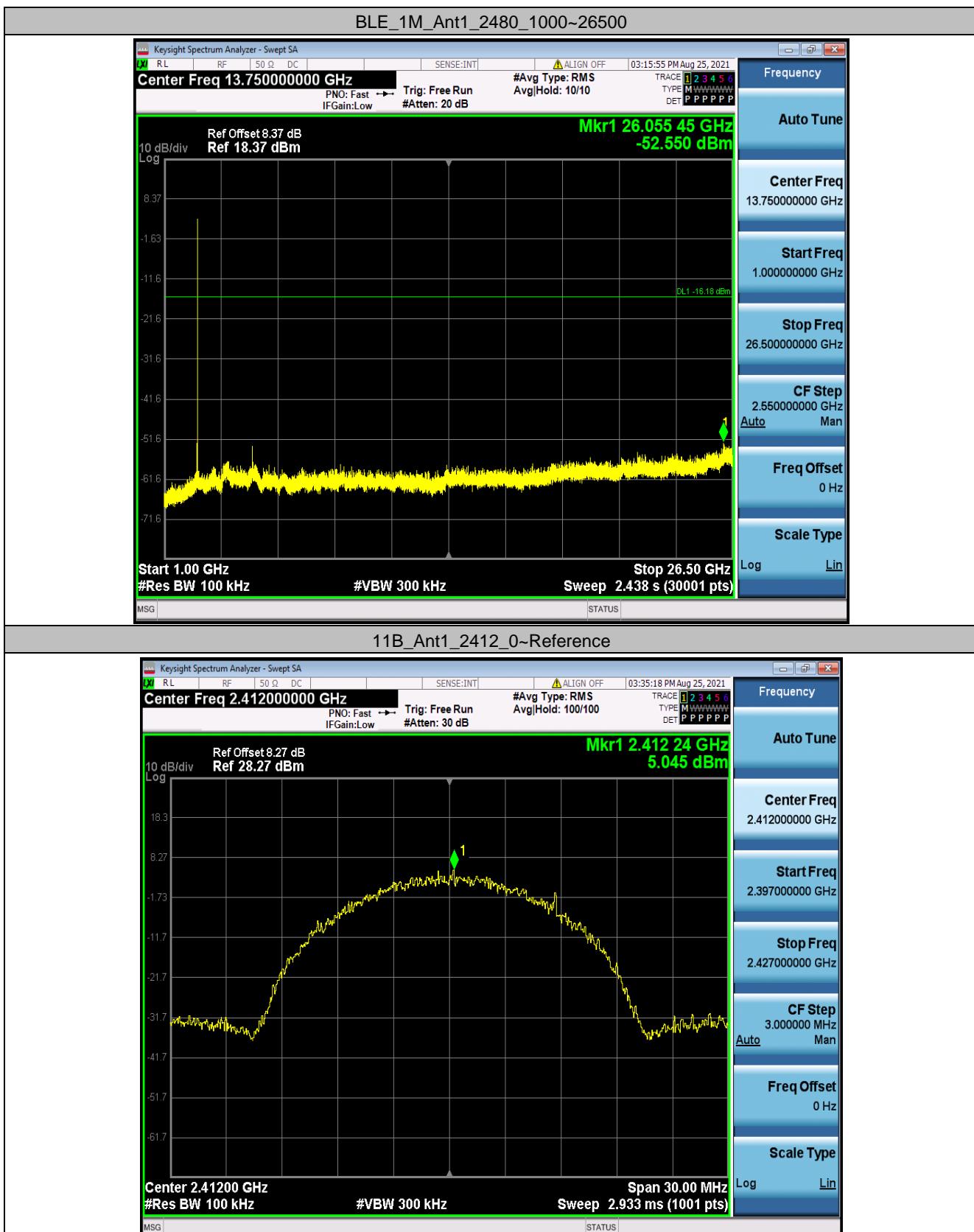


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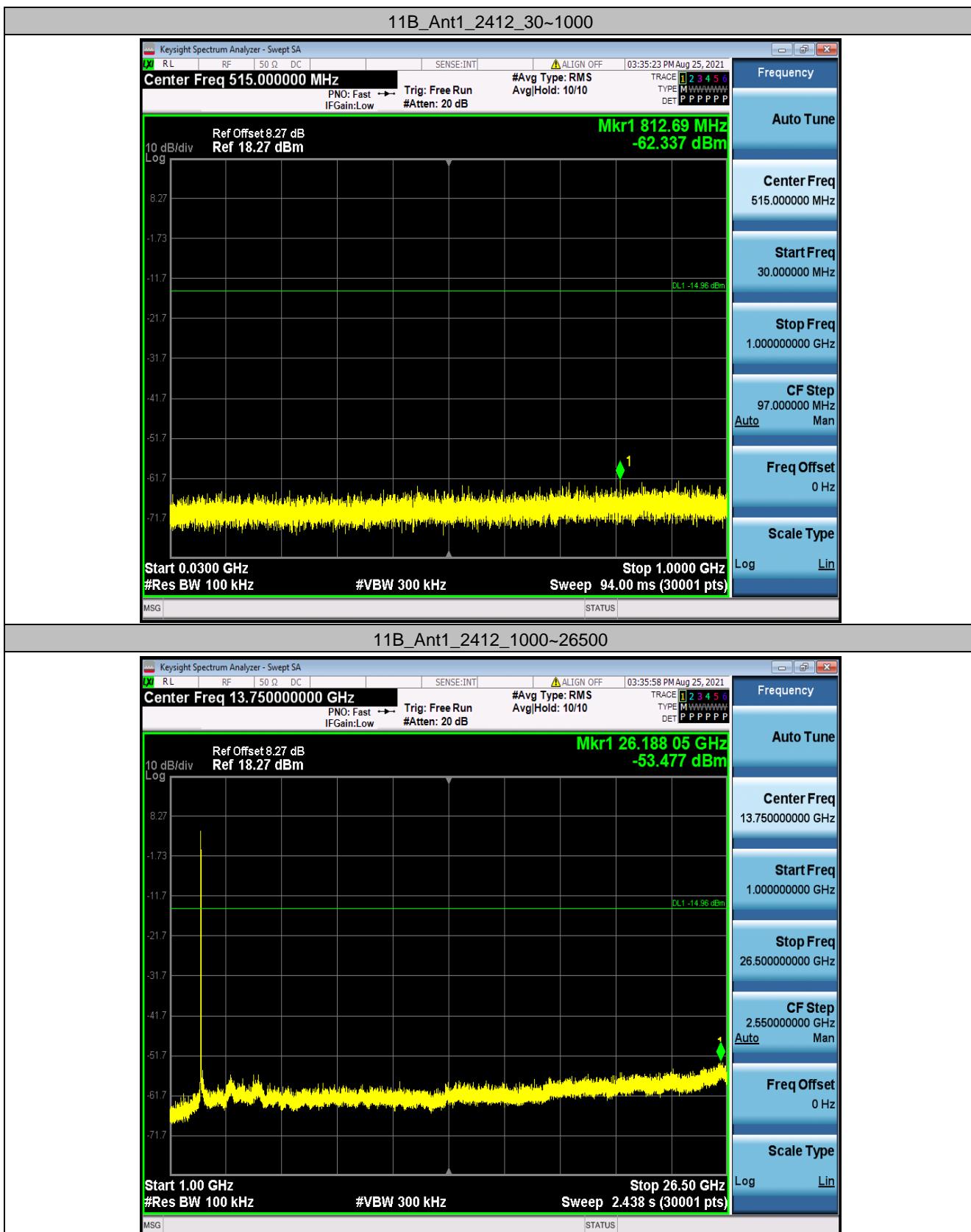
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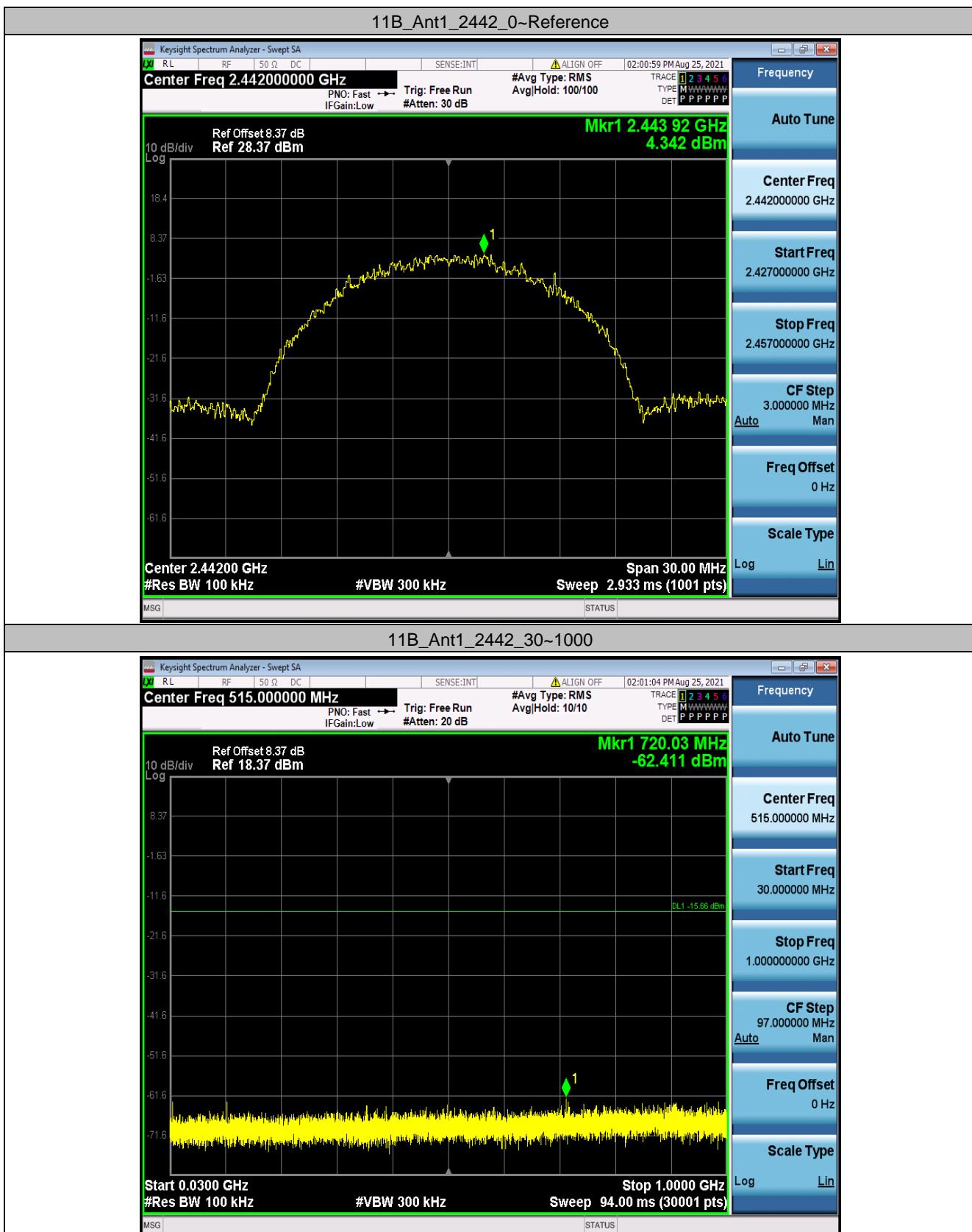
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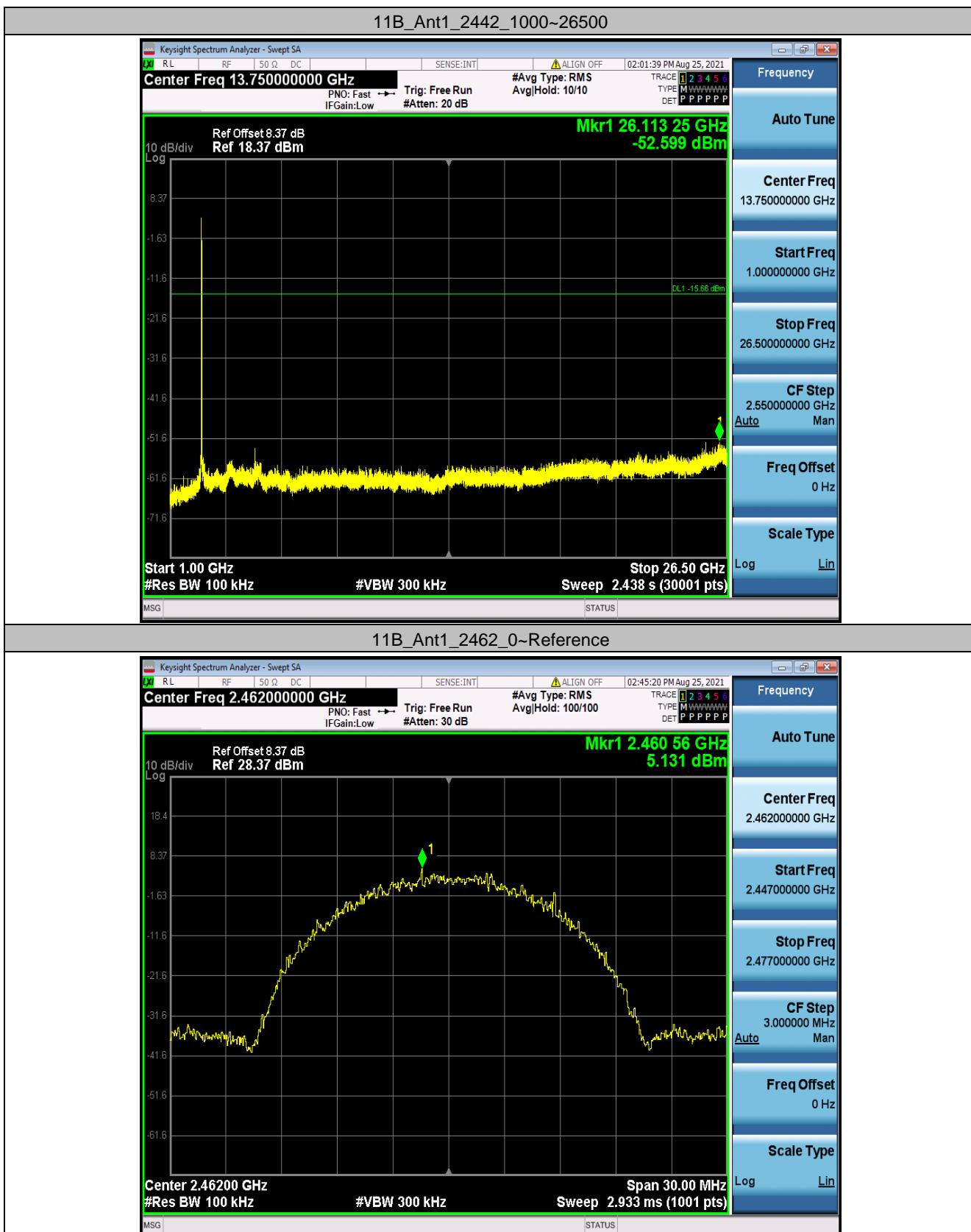


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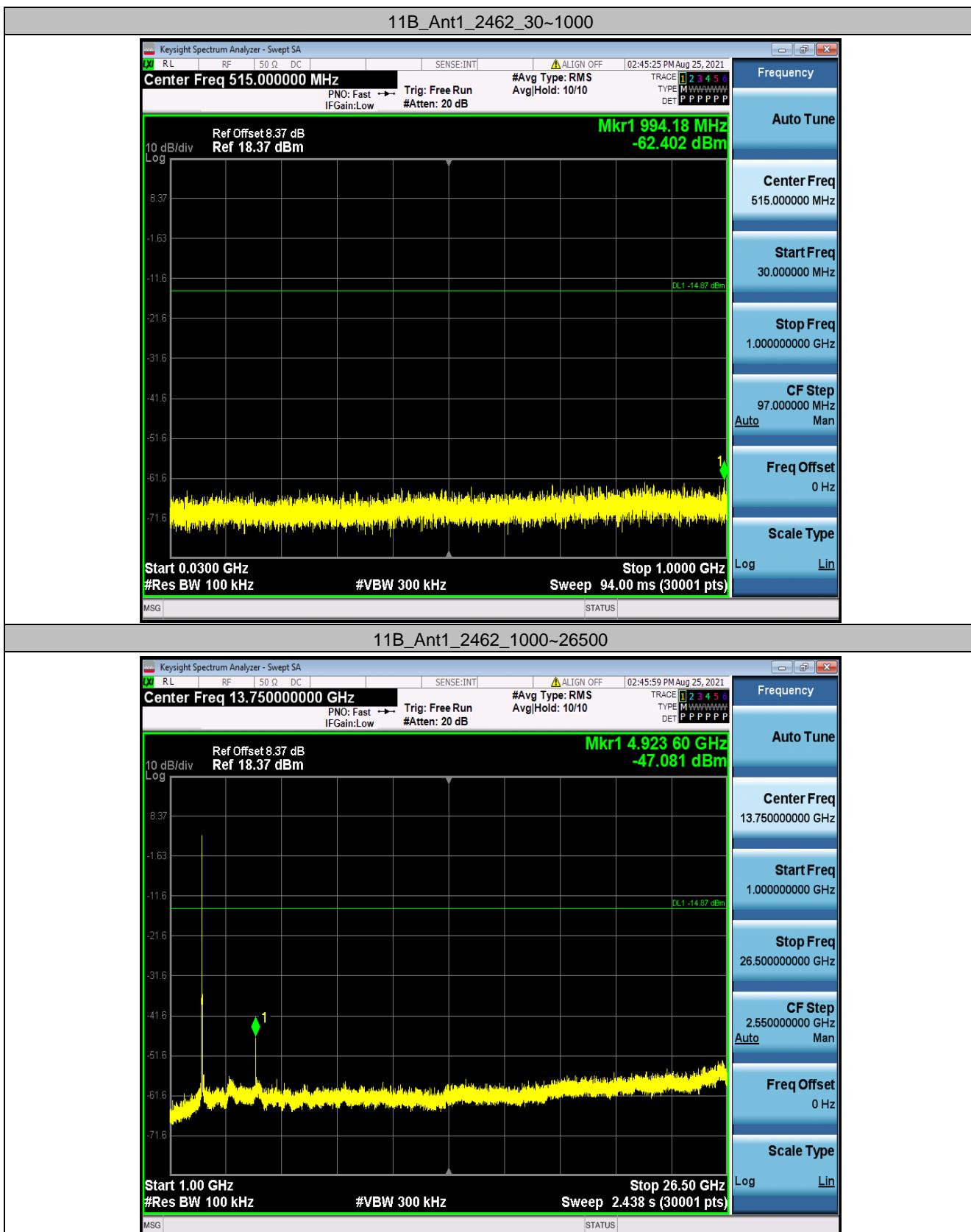
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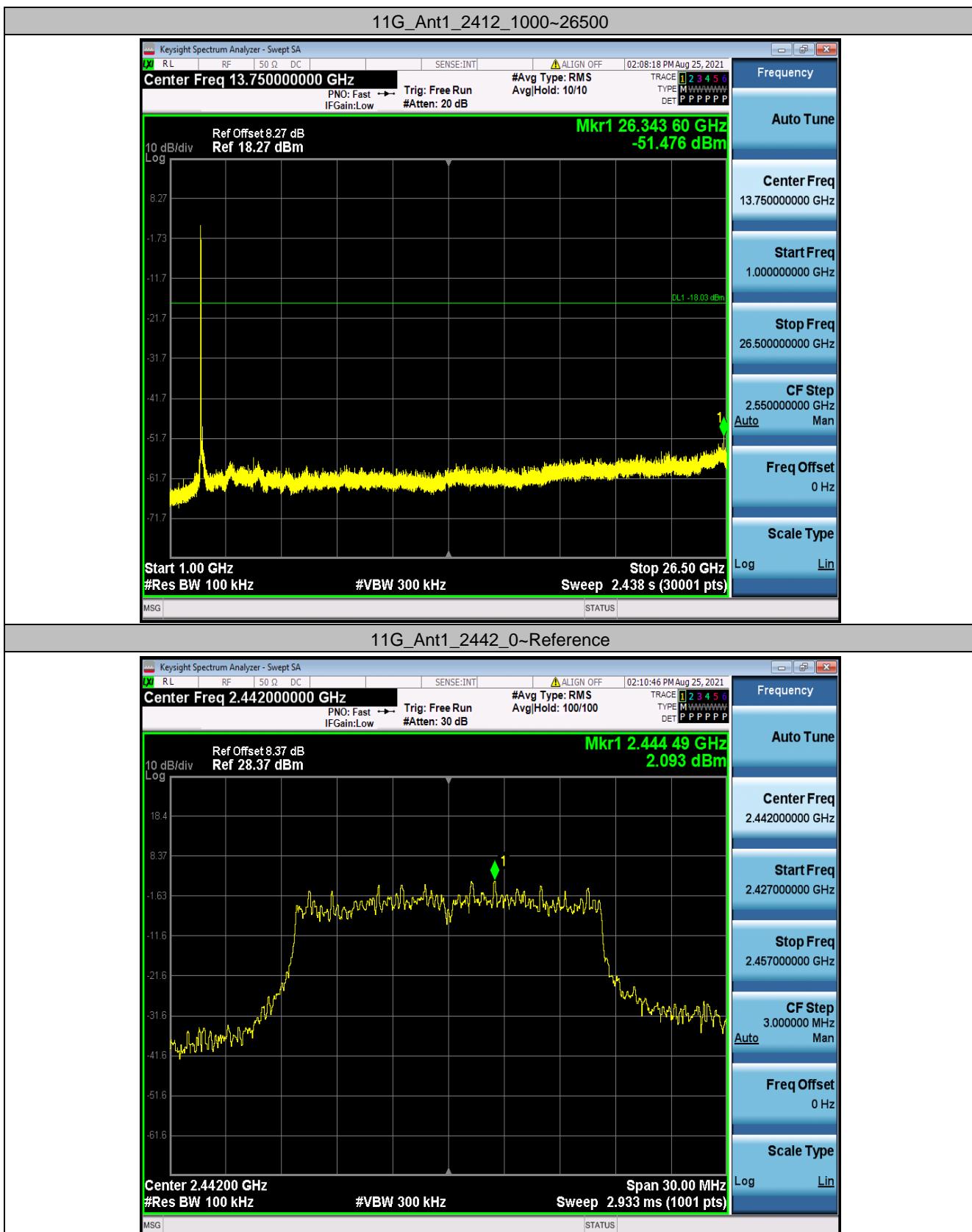


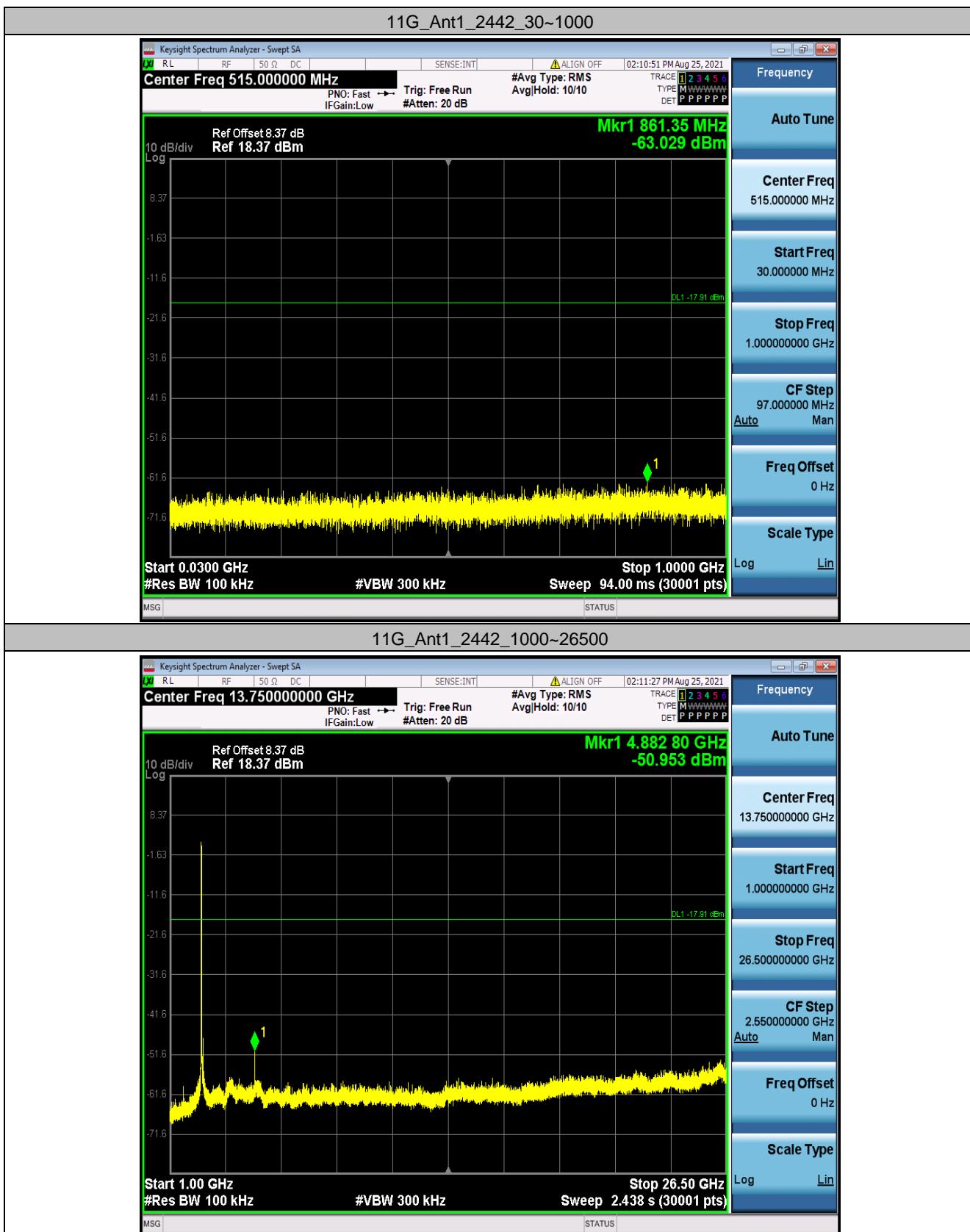
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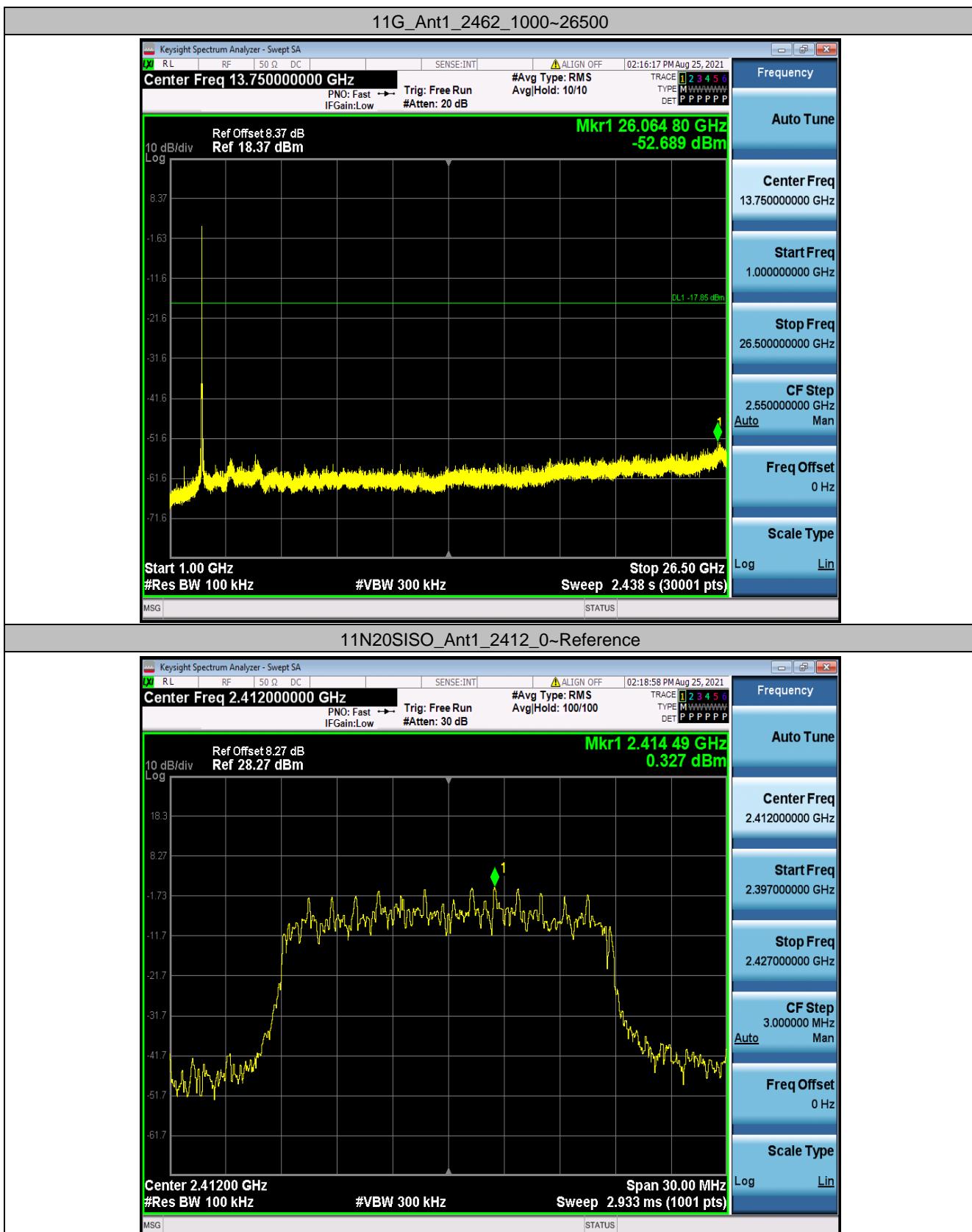


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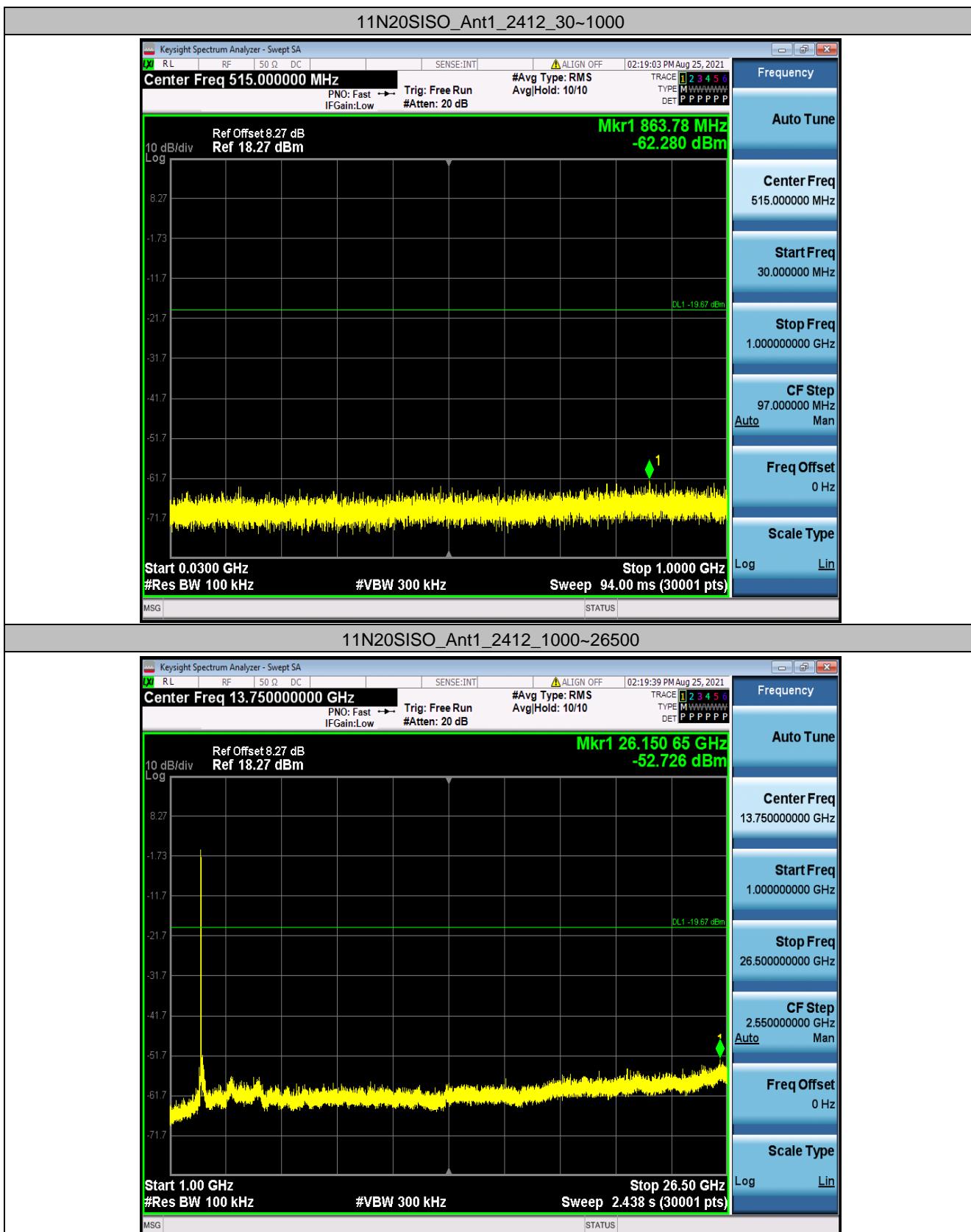


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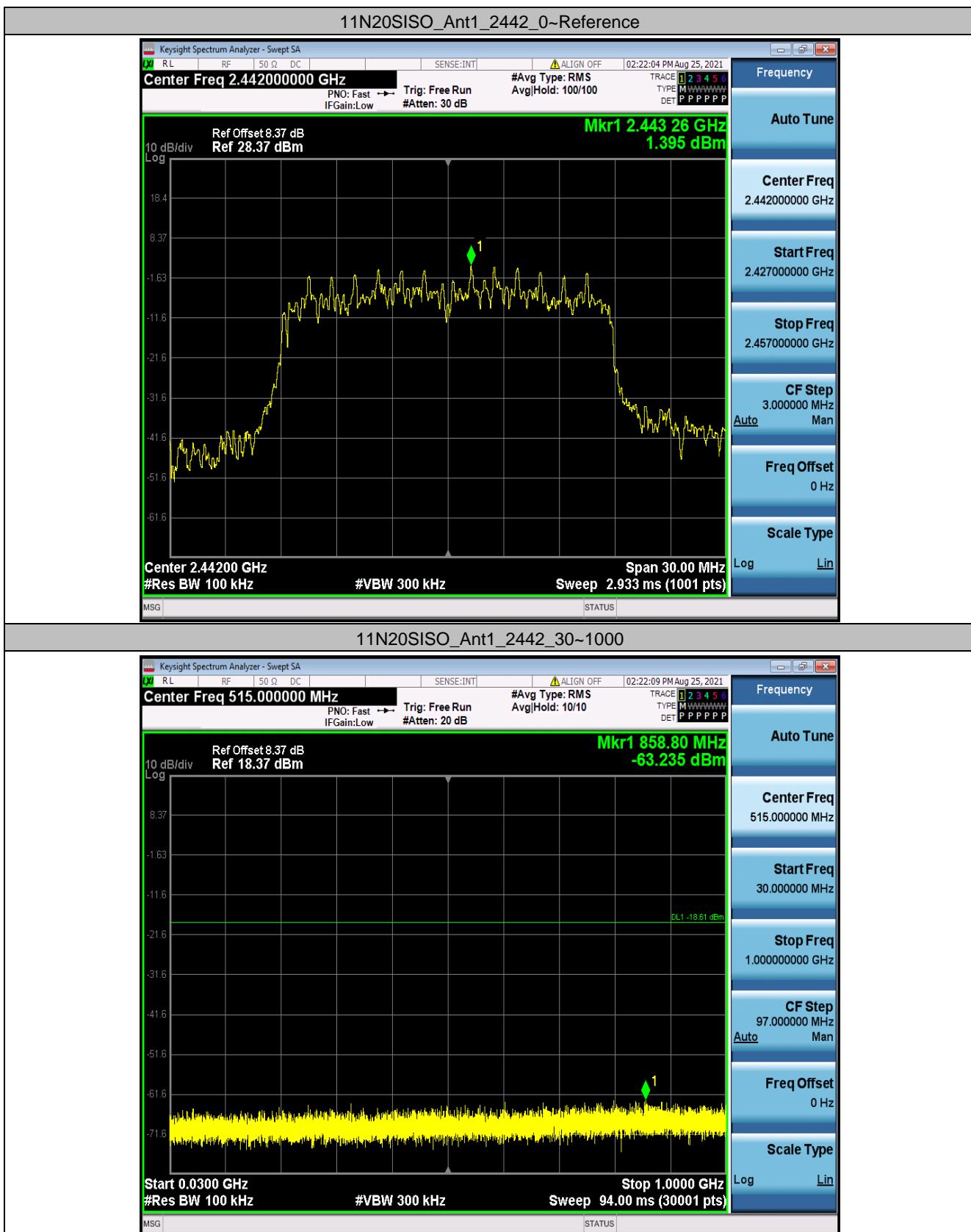


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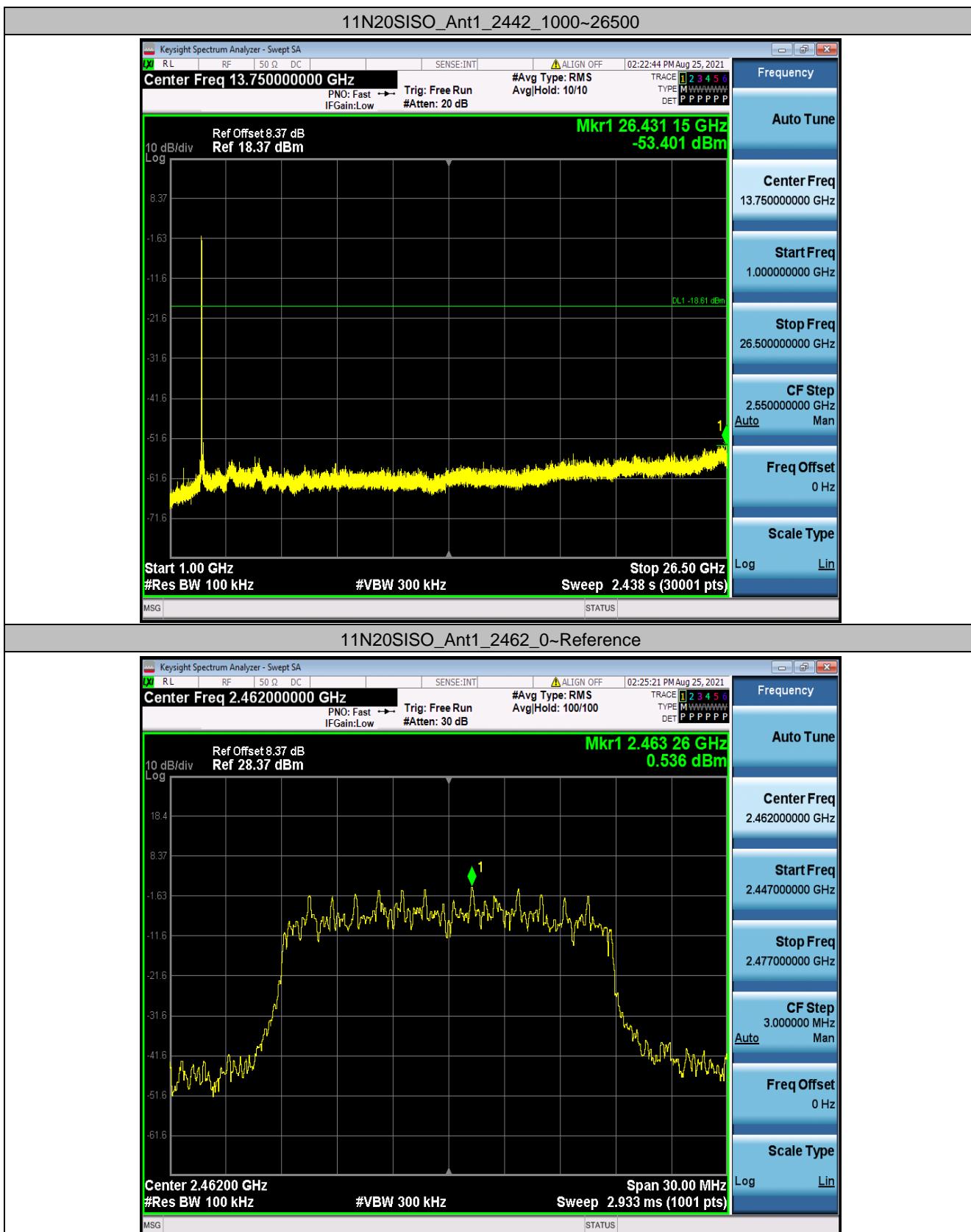


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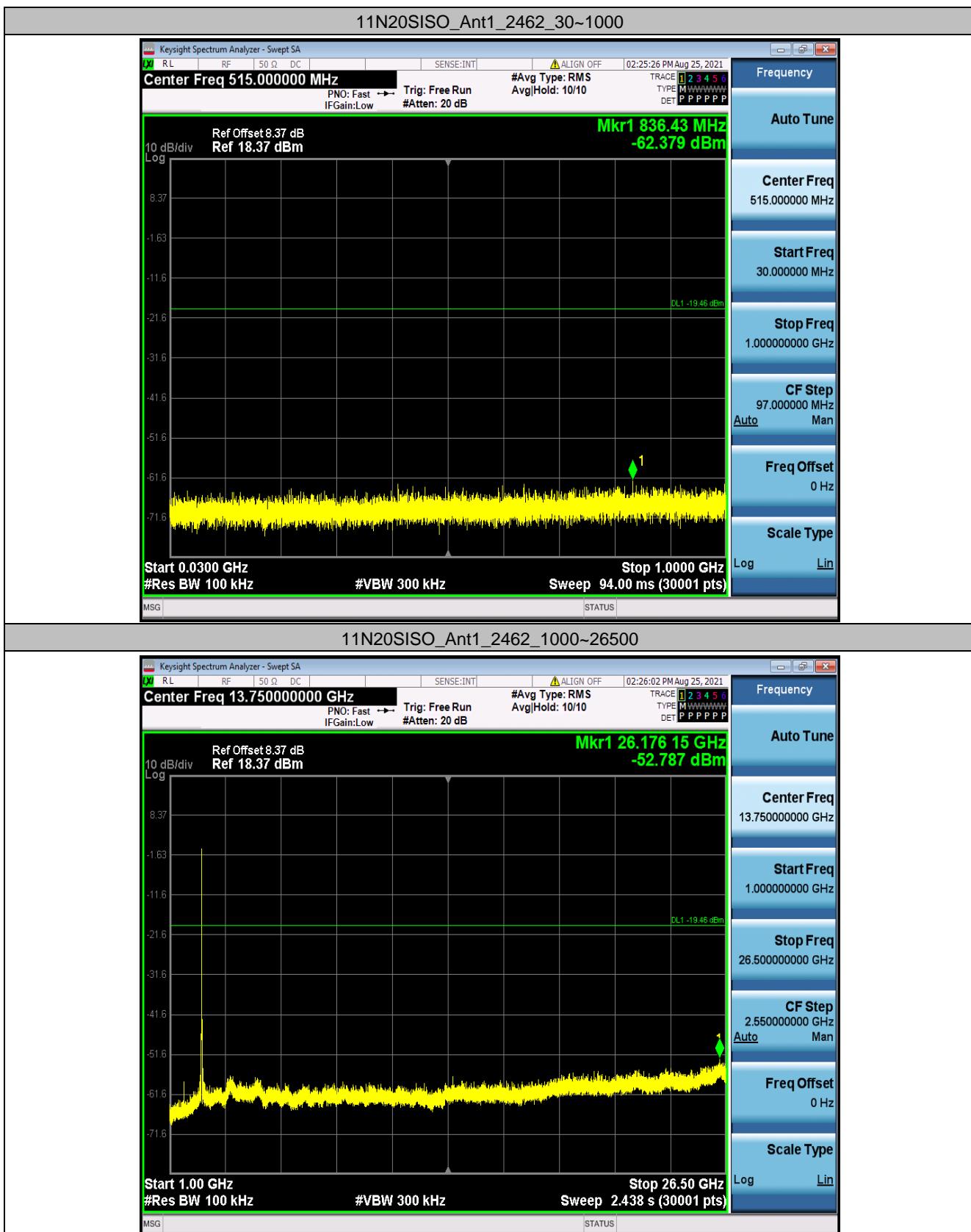
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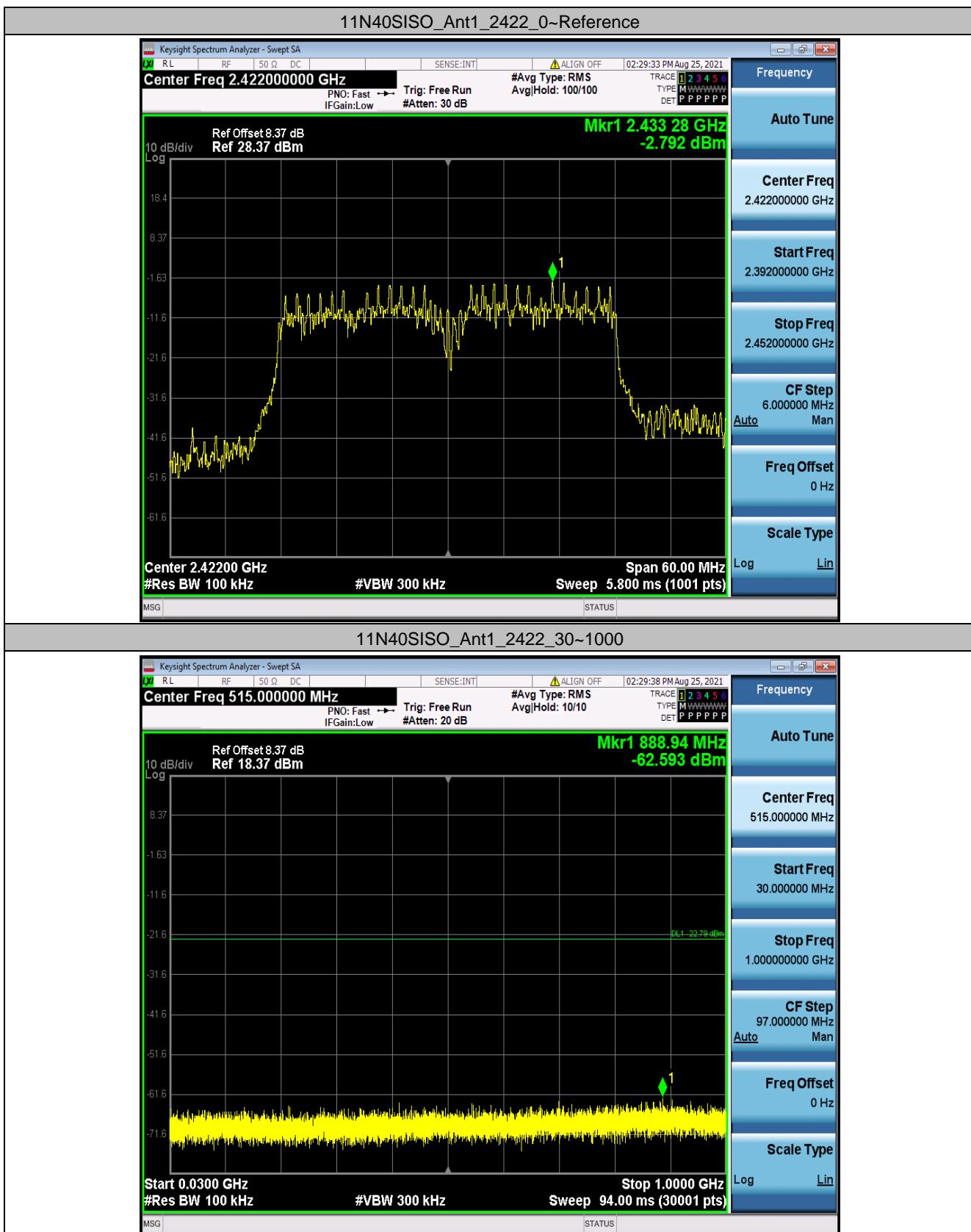


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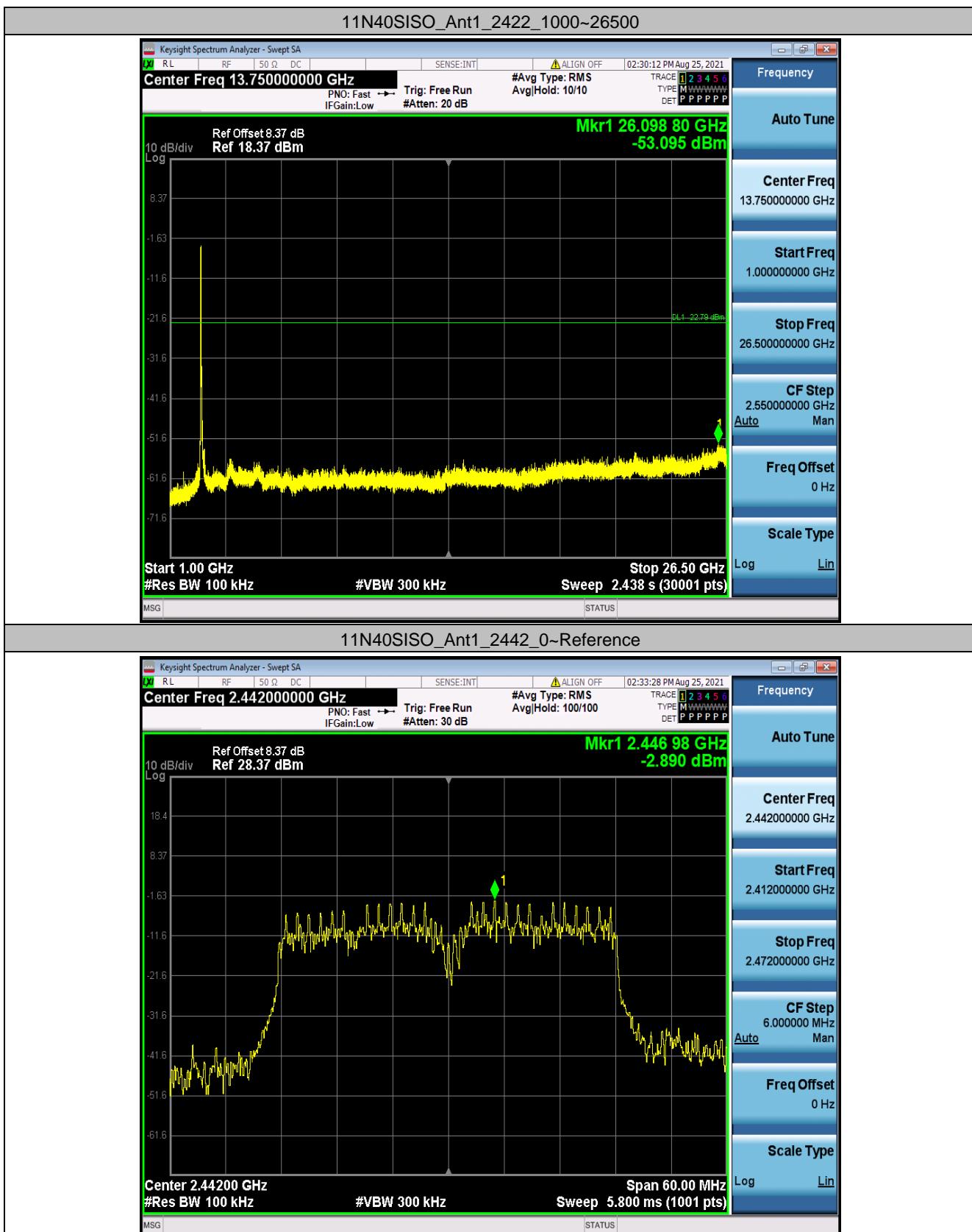


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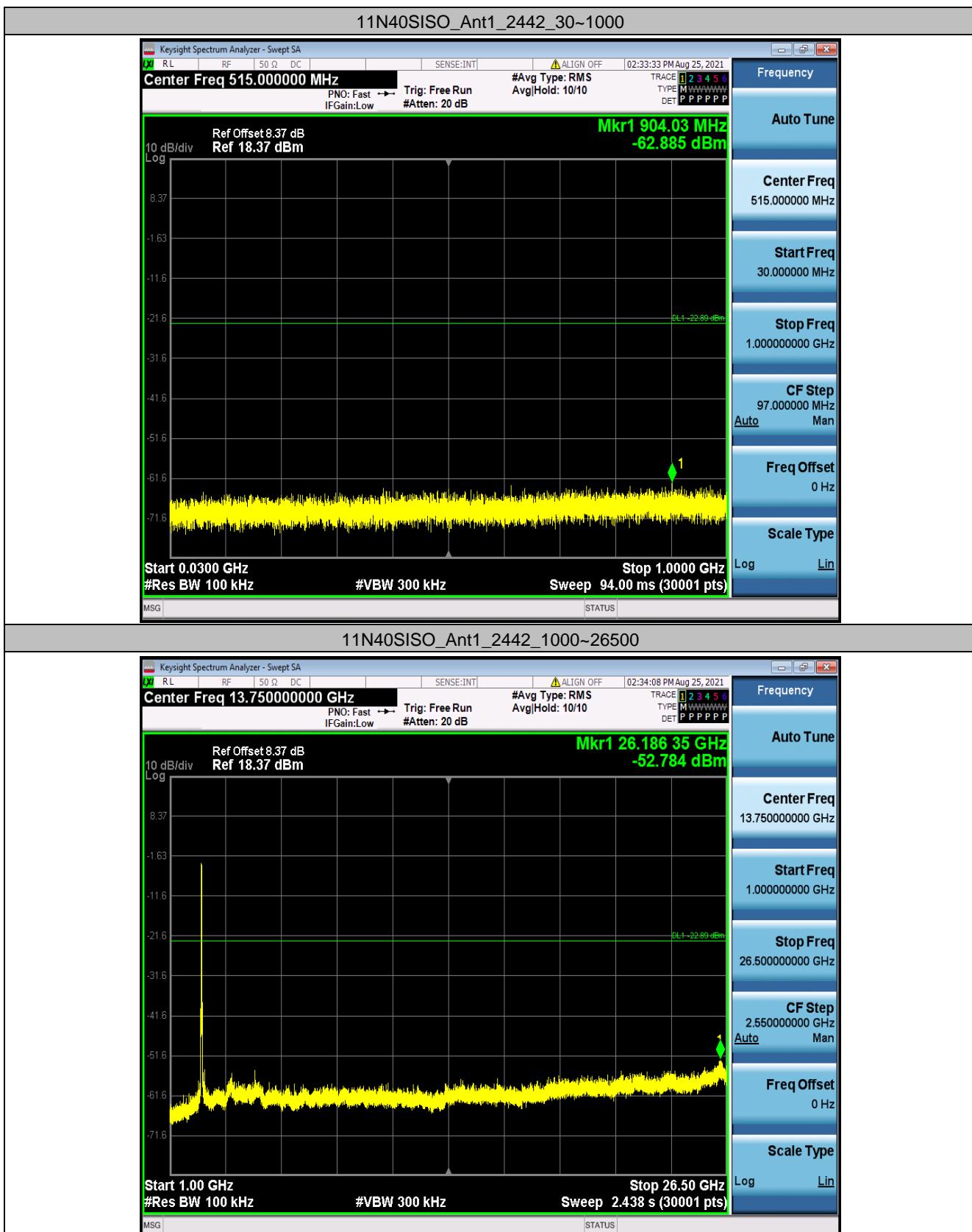
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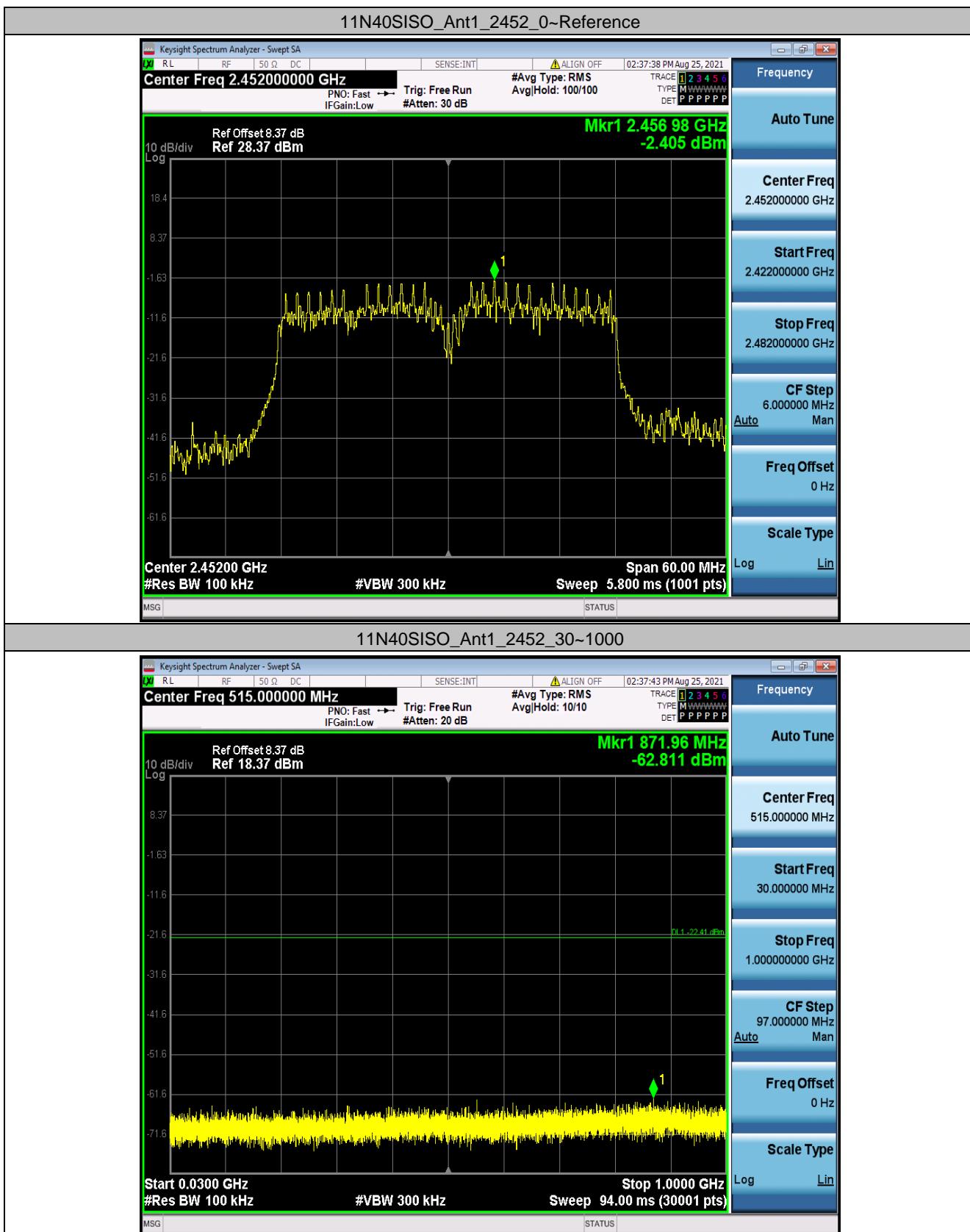
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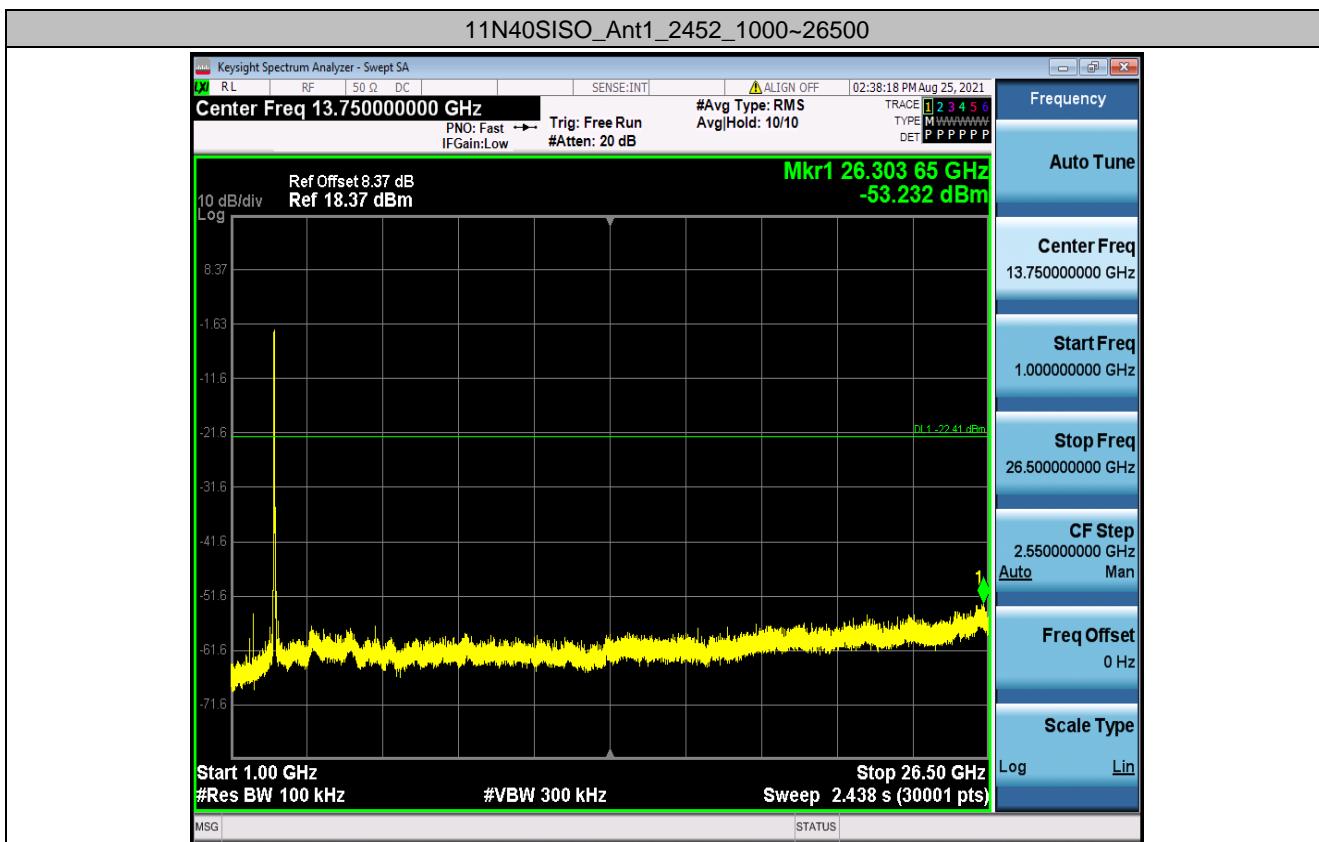


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