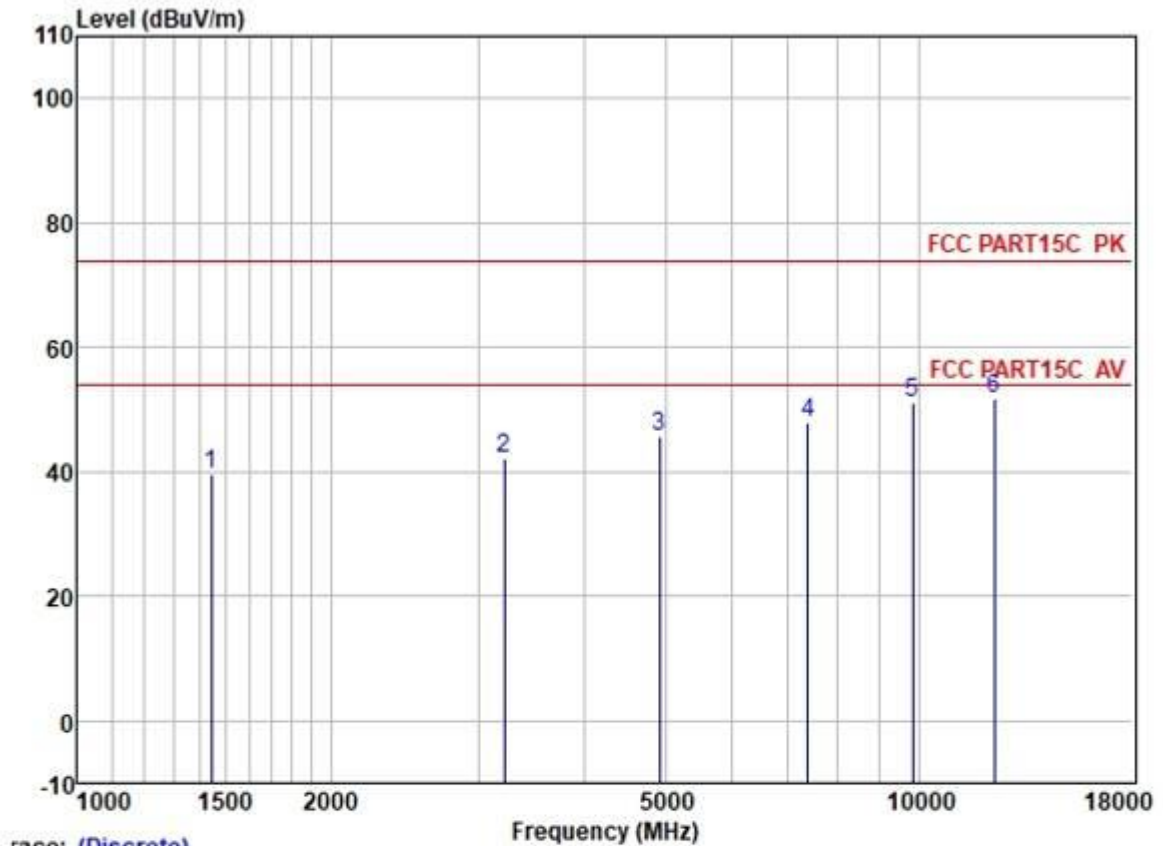


Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High; Antenna: 3



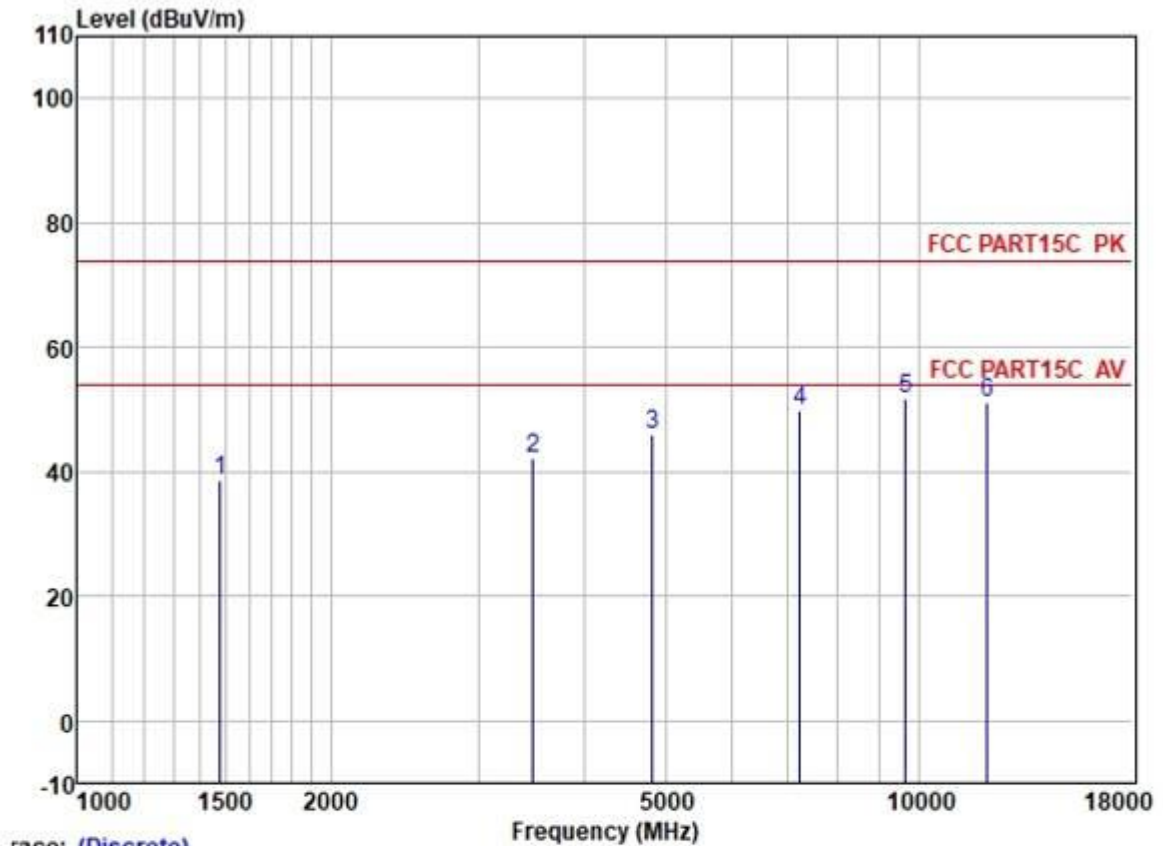
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1443.509	48.60	25.44	2.69	37.16	39.57	74.00	-34.43	VERTICAL	Peak
2	3214.623	46.00	28.61	4.01	36.51	42.11	74.00	-31.89	VERTICAL	Peak
3	4924.751	44.81	31.62	5.60	36.50	45.53	74.00	-28.47	VERTICAL	Peak
4	7386.373	42.25	36.17	6.19	36.77	47.84	74.00	-26.16	VERTICAL	Peak
5	9848.852	41.94	38.58	6.99	36.32	51.19	74.00	-22.81	VERTICAL	Peak
6	12310.870	41.35	38.63	8.01	36.23	51.76	74.00	-22.24	VERTICAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:Low; Antenna: 3



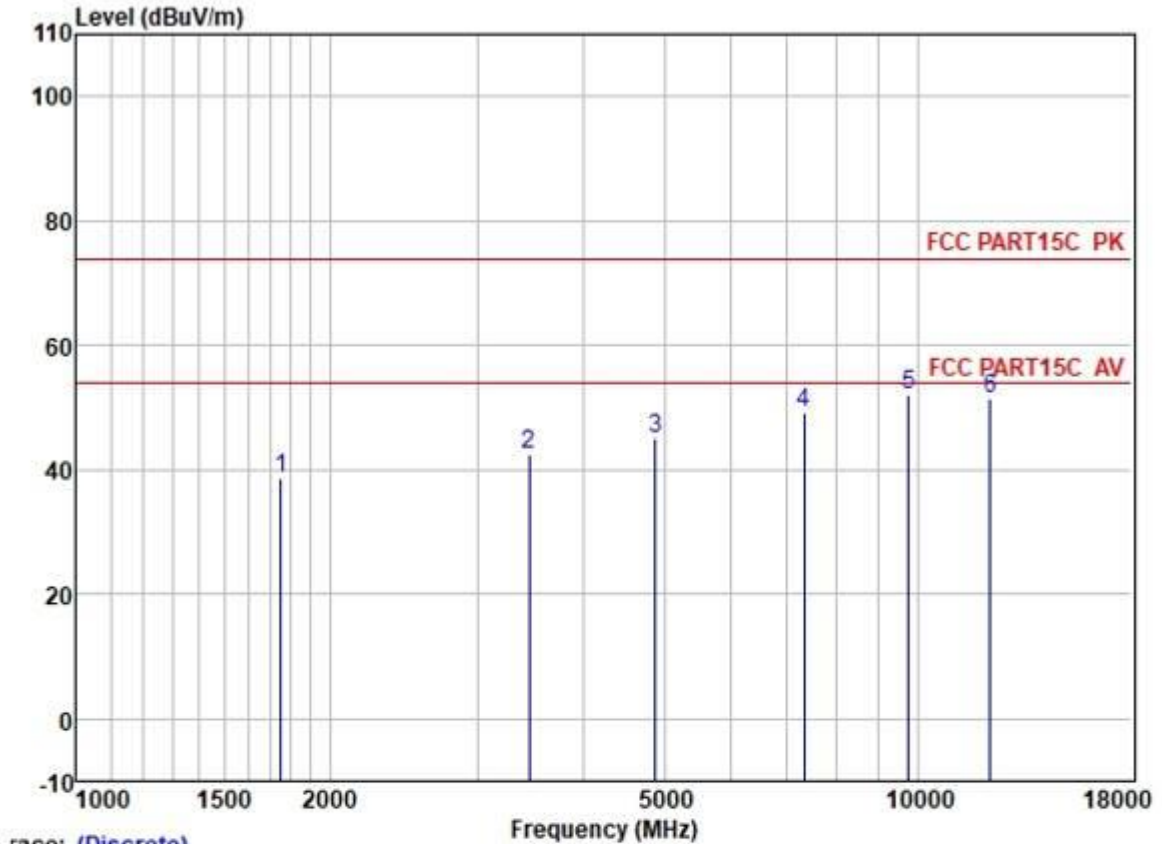
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1477.276	47.54	25.48	2.77	37.13	38.66	74.00 -35.34	VERTICAL	Peak
2	3485.601	45.52	28.89	4.27	36.46	42.22	74.00 -31.78	VERTICAL	Peak
3	4824.007	45.51	31.45	5.42	36.48	45.90	74.00 -28.10	VERTICAL	Peak
4	7236.122	44.75	35.70	6.03	36.75	49.73	74.00 -24.27	VERTICAL	Peak
5	9648.525	42.77	38.40	7.06	36.35	51.88	74.00 -22.12	VERTICAL	Peak
6	12060.520	40.45	38.88	8.17	36.38	51.12	74.00 -22.88	VERTICAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:middle; Antenna: 3



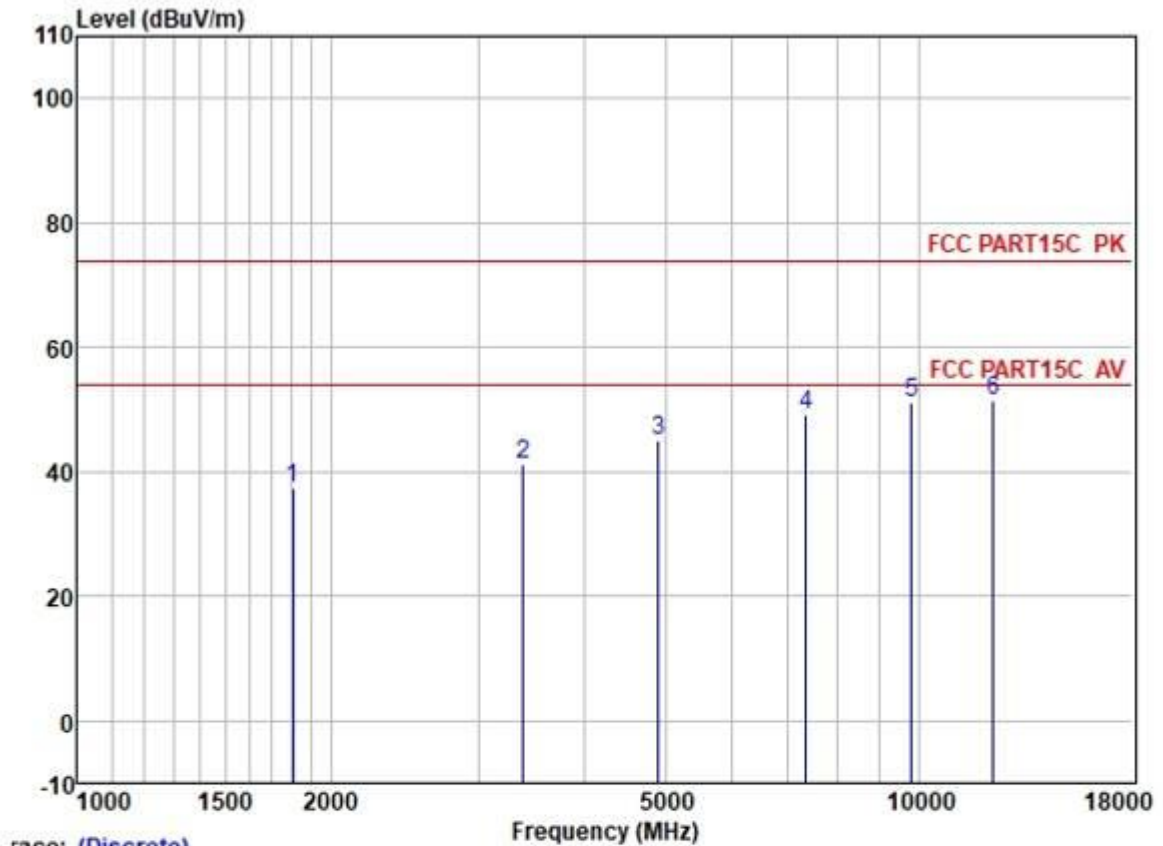
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Limit Level	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dB		
1	1751.955	46.93	25.86	2.90	37.04	38.65	74.00 -35.35	VERTICAL	Peak
2	3455.508	45.71	28.88	4.20	36.46	42.33	74.00 -31.67	VERTICAL	Peak
3	4884.016	44.53	31.56	5.52	36.50	45.11	74.00 -28.89	VERTICAL	Peak
4	7326.461	43.82	36.00	6.13	36.76	49.19	74.00 -24.81	VERTICAL	Peak
5	9768.149	42.90	38.53	7.01	36.33	52.11	74.00 -21.89	VERTICAL	Peak
6	12210.750	40.80	38.74	8.08	36.30	51.32	74.00 -22.68	VERTICAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High; Antenna: 3



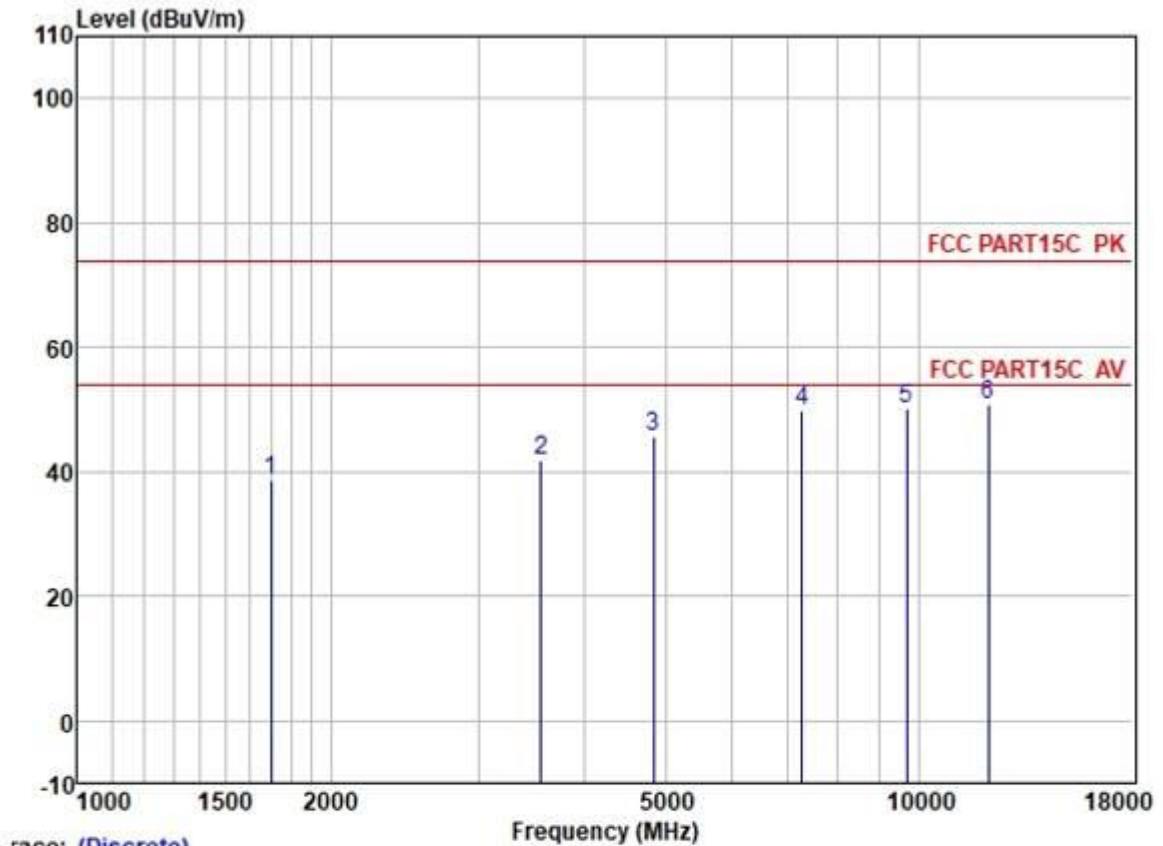
Trace: (Discrete)

	Read	Antenna	Cable	Preamp	Limit	Over				
	Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1803.332	45.59	25.95	3.00	37.03	37.51	74.00	-36.49	VERTICAL	Peak
2	3386.297	44.85	28.83	4.10	36.47	41.31	74.00	-32.69	VERTICAL	Peak
3	4904.043	44.37	31.58	5.55	36.50	45.00	74.00	-29.00	VERTICAL	Peak
4	7356.806	43.65	36.06	6.15	36.76	49.10	74.00	-24.90	VERTICAL	Peak
5	9808.460	42.03	38.56	7.00	36.32	51.27	74.00	-22.73	VERTICAL	Peak
6	12260.760	40.97	38.70	8.06	36.27	51.46	74.00	-22.54	VERTICAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low; Antenna: 3



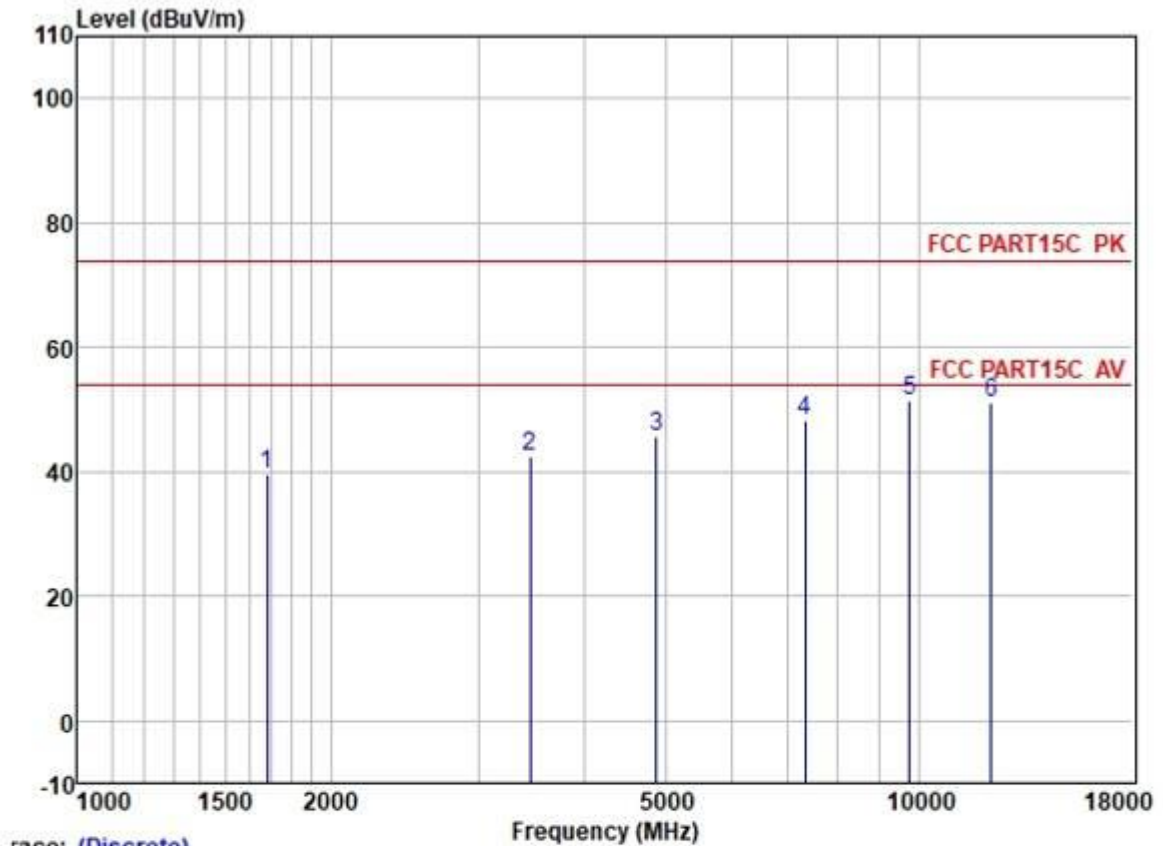
Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1697.129	47.13	25.71	2.80	37.05	38.59	74.00	-35.41	VERTICAL	Peak
2	3556.843	44.87	28.98	4.44	36.45	41.84	74.00	-32.16	VERTICAL	Peak
3	4844.274	45.34	31.50	5.45	36.48	45.81	74.00	-28.19	VERTICAL	Peak
4	7266.038	44.70	35.78	6.06	36.75	49.79	74.00	-24.21	VERTICAL	Peak
5	9688.371	41.12	38.44	7.04	36.34	50.26	74.00	-23.74	VERTICAL	Peak
6	12110.700	40.21	38.83	8.14	36.34	50.84	74.00	-23.16	VERTICAL	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:middle; Antenna: 3



Trace: (Discrete)

	Read Freq	Antenna Level	Cable Factor	Preamp Loss	Preamp Factor	Level	Limit	Over	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1	1682.477	48.01	25.68	2.80	37.05	39.44	74.00	-34.56	VERTICAL	Peak
2	3455.508	45.79	28.88	4.20	36.46	42.41	74.00	-31.59	VERTICAL	Peak
3	4884.151	45.14	31.56	5.52	36.50	45.72	74.00	-28.28	VERTICAL	Peak
4	7326.763	42.74	36.00	6.13	36.76	48.11	74.00	-25.89	VERTICAL	Peak
5	9768.473	42.12	38.53	7.01	36.33	51.33	74.00	-22.67	VERTICAL	Peak
6	12210.270	40.49	38.74	8.08	36.30	51.01	74.00	-22.99	VERTICAL	Peak



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7.8 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.247
 Test Method: ANSI C63.10 (2013) Section 6.2
 Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.
 Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz

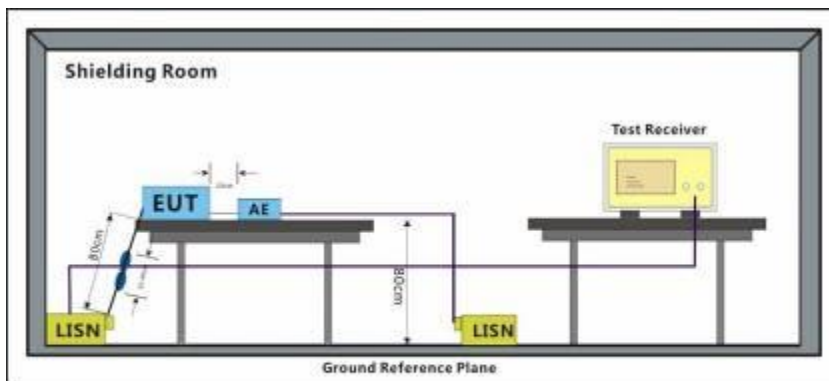
7.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 23 °C Humidity: 56 % RH Atmospheric Pressure: 1010 mbar

7.8.2 Test Mode Description

Pre-scan / Mode	Description
Final test Code	
Final test 02	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ 6.5Mbps is the worst case of IEEE 802.11n(HT20); data rate @ 13.5Mbps is the worst case of IEEE 802.11n(HT40). Only the data of worst case is recorded in the report.

7.8.3 Test Setup Diagram



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7.8.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

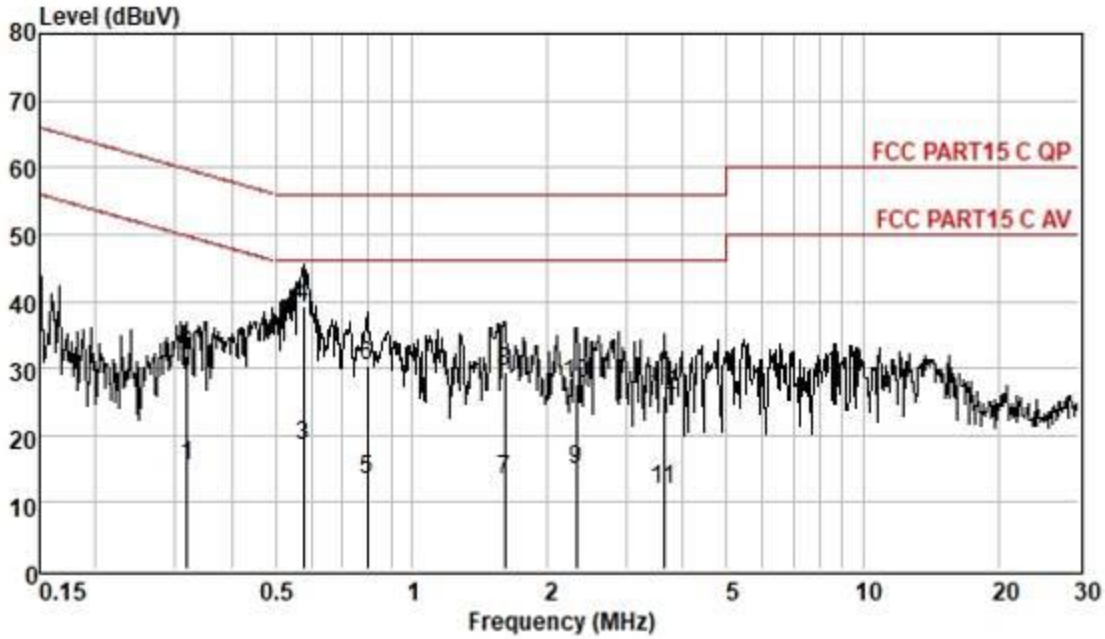
Remark: LISN=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 02; Line: Live line



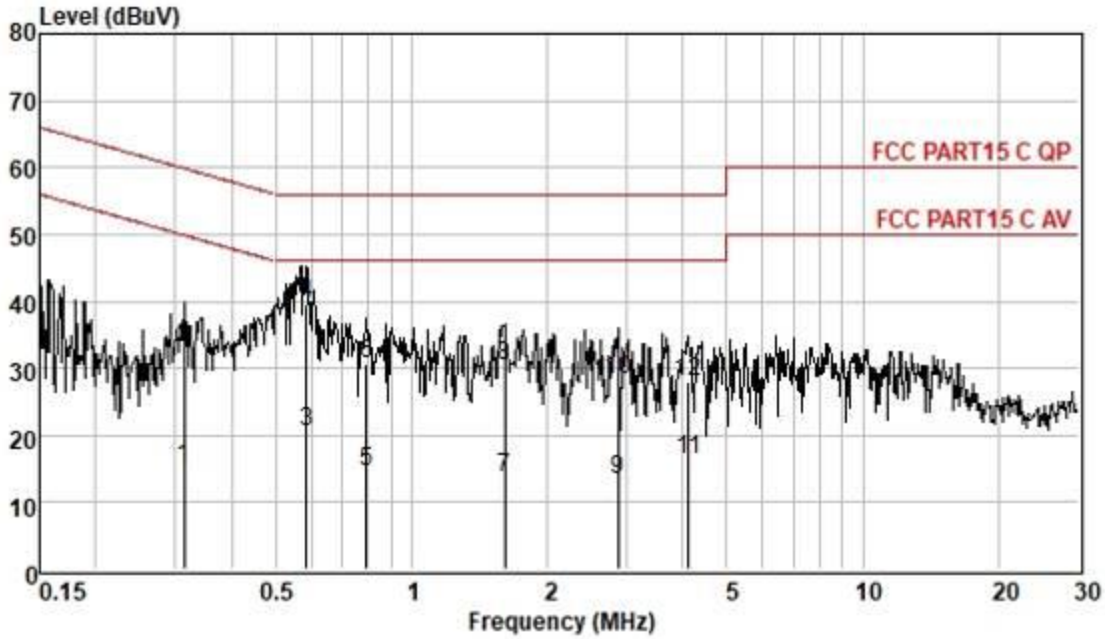
Pol :LINE
 Mode :1#
 Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.32	5.70	0.06	9.62	15.38	49.75	-34.37	Average
0.32	22.09	0.06	9.62	31.77	59.75	-27.98	QP
0.58	8.69	0.07	9.63	18.39	46.00	-27.61	Average
0.58	29.48	0.07	9.63	39.18	56.00	-16.82	QP
0.80	3.83	0.07	9.63	13.53	46.00	-32.47	Average
0.80	20.54	0.07	9.63	30.24	56.00	-25.76	QP
1.61	3.56	0.10	9.61	13.27	46.00	-32.73	Average
1.61	19.81	0.10	9.61	29.52	56.00	-26.48	QP
2.32	5.24	0.13	9.62	14.99	46.00	-31.01	Average
2.32	18.04	0.13	9.62	27.79	56.00	-28.21	QP
3.62	2.08	0.16	9.62	11.86	46.00	-34.14	Average
3.62	16.18	0.16	9.62	25.96	56.00	-30.04	QP



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Test Mode: 02; Line: Neutral Line



Pol : NEUTRAL
 Mode : 1#
 Model :

Frequency MHz	Read Level dBuV	Cable Loss dB	LISN Factor dB	Measured Level dBuV	Limit Line dBuV	Over Limit dB	Remark
0.31	5.47	0.06	9.54	15.07	49.88	-34.81	Average
0.31	23.42	0.06	9.54	33.02	59.88	-26.86	QP
0.59	10.87	0.07	9.54	20.48	46.00	-25.52	Average
0.59	29.92	0.07	9.54	39.53	56.00	-16.47	QP
0.80	5.09	0.07	9.55	14.71	46.00	-31.29	Average
0.80	20.98	0.07	9.55	30.60	56.00	-25.40	QP
1.61	3.92	0.10	9.55	13.57	46.00	-32.43	Average
1.61	20.82	0.10	9.55	30.47	56.00	-25.53	QP
2.87	3.78	0.14	9.56	13.48	46.00	-32.52	Average
2.87	18.60	0.14	9.56	28.30	56.00	-27.70	QP
4.11	6.53	0.17	9.56	16.26	46.00	-29.74	Average
4.11	18.14	0.17	9.56	27.87	56.00	-28.13	QP



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8 Appendix

Cable Loss = 0.9 dB

8.1 Appendix A: DTS Bandwidth

8.1.1 Test Result

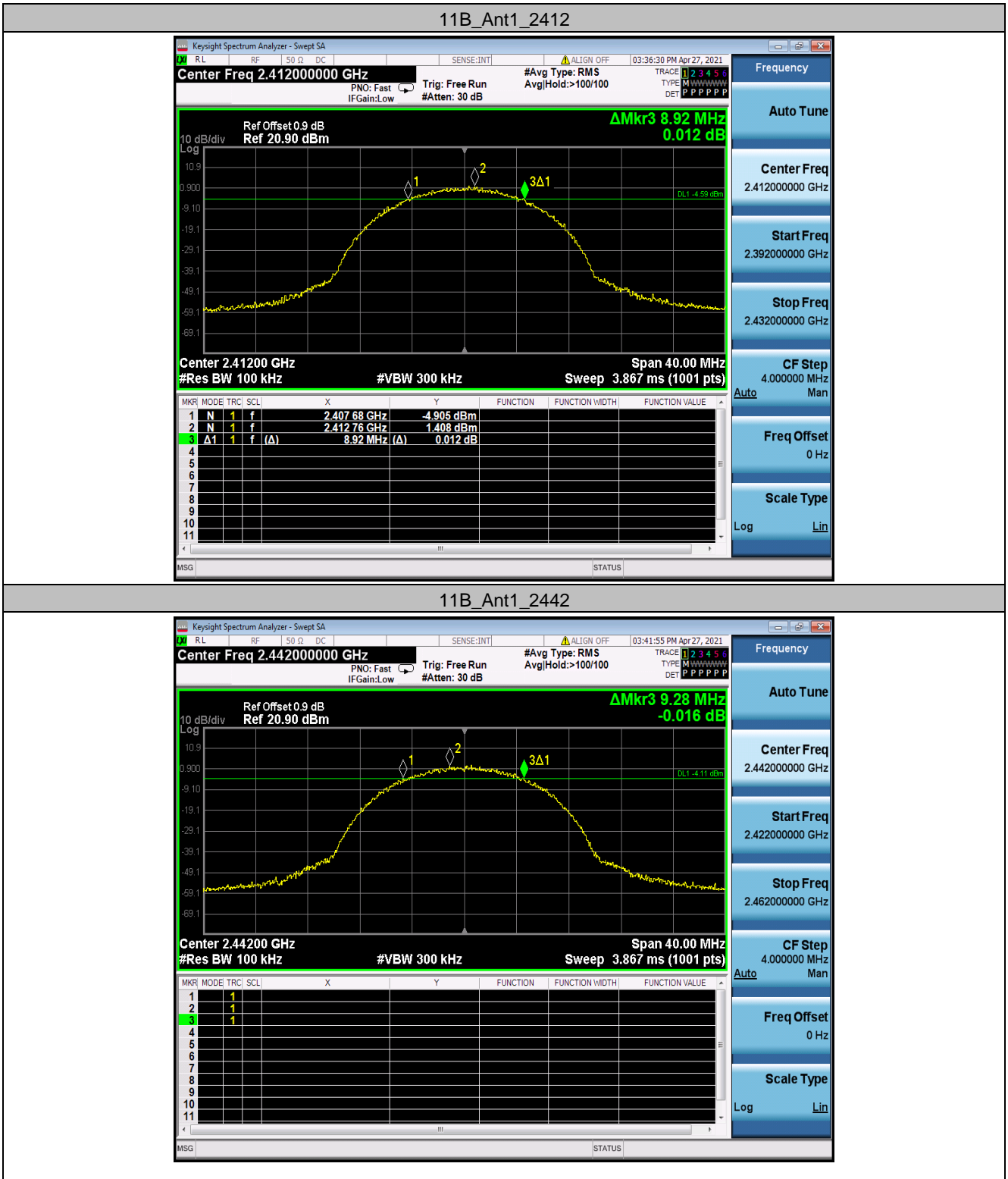
TestMode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	8.920	2407.680	2416.600	0.5	PASS
		2442	9.280	2437.280	2446.560	0.5	PASS
		2462	8.760	2457.600	2466.360	0.5	PASS
11G	Ant1	2412	16.480	2403.760	2420.240	0.5	PASS
		2442	16.520	2433.720	2450.240	0.5	PASS
		2462	16.560	2453.720	2470.280	0.5	PASS
11N20SISO	Ant1	2412	17.640	2403.240	2420.880	0.5	PASS
		2442	17.440	2433.120	2450.560	0.5	PASS
		2462	17.520	2453.160	2470.680	0.5	PASS
11N40SISO	Ant1	2422	36.160	2404.000	2440.160	0.5	PASS
		2442	35.520	2424.400	2459.920	0.5	PASS
		2452	35.600	2434.320	2469.920	0.5	PASS



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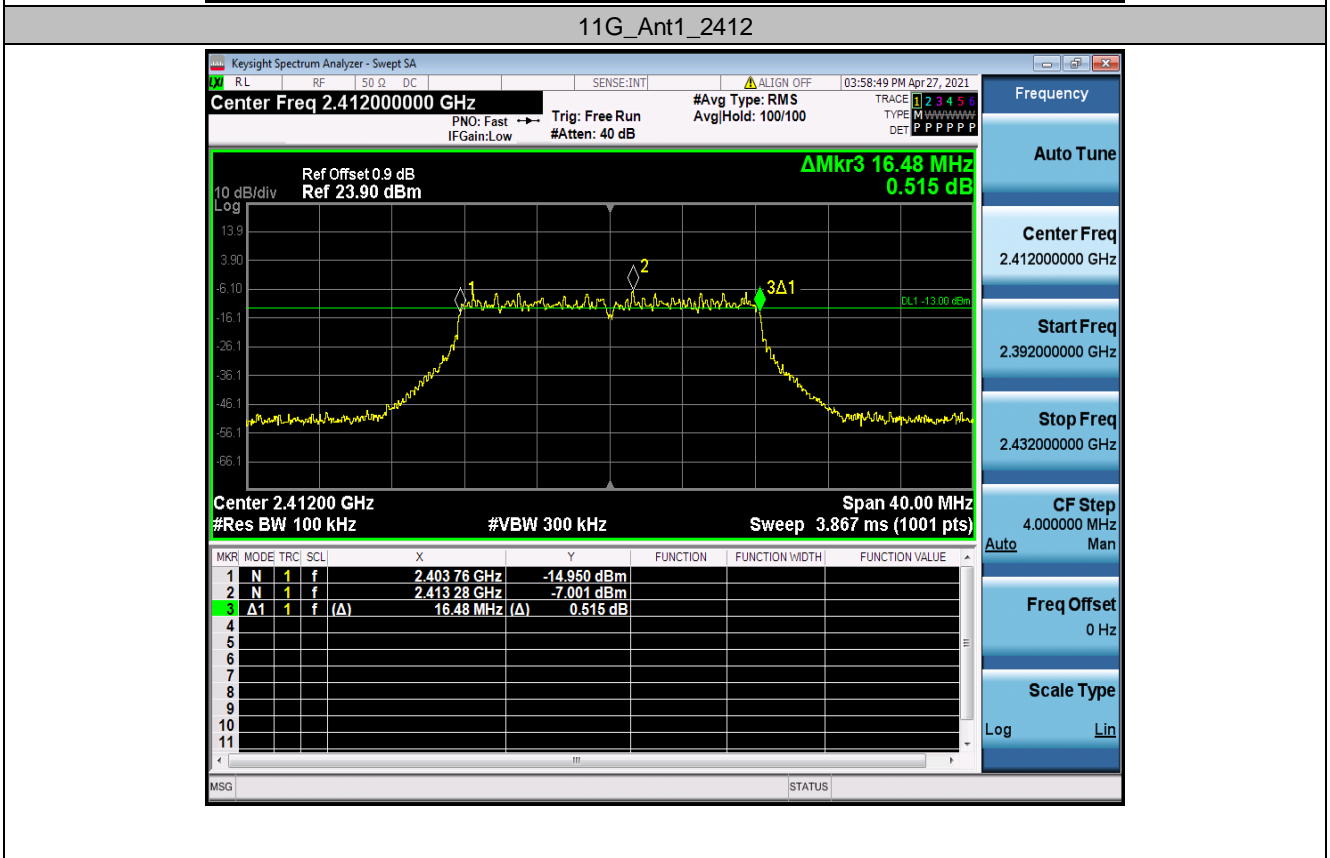
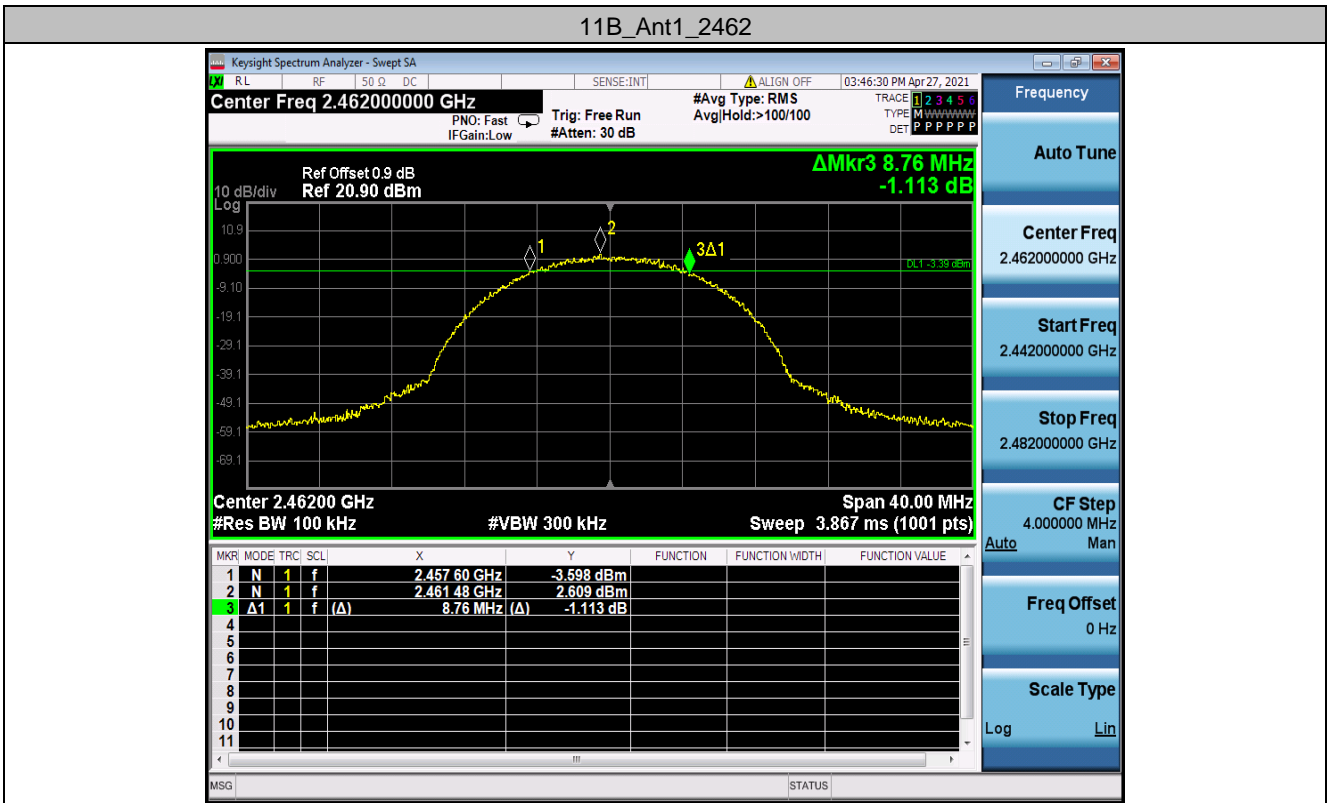
8.1.2 Test Graphs



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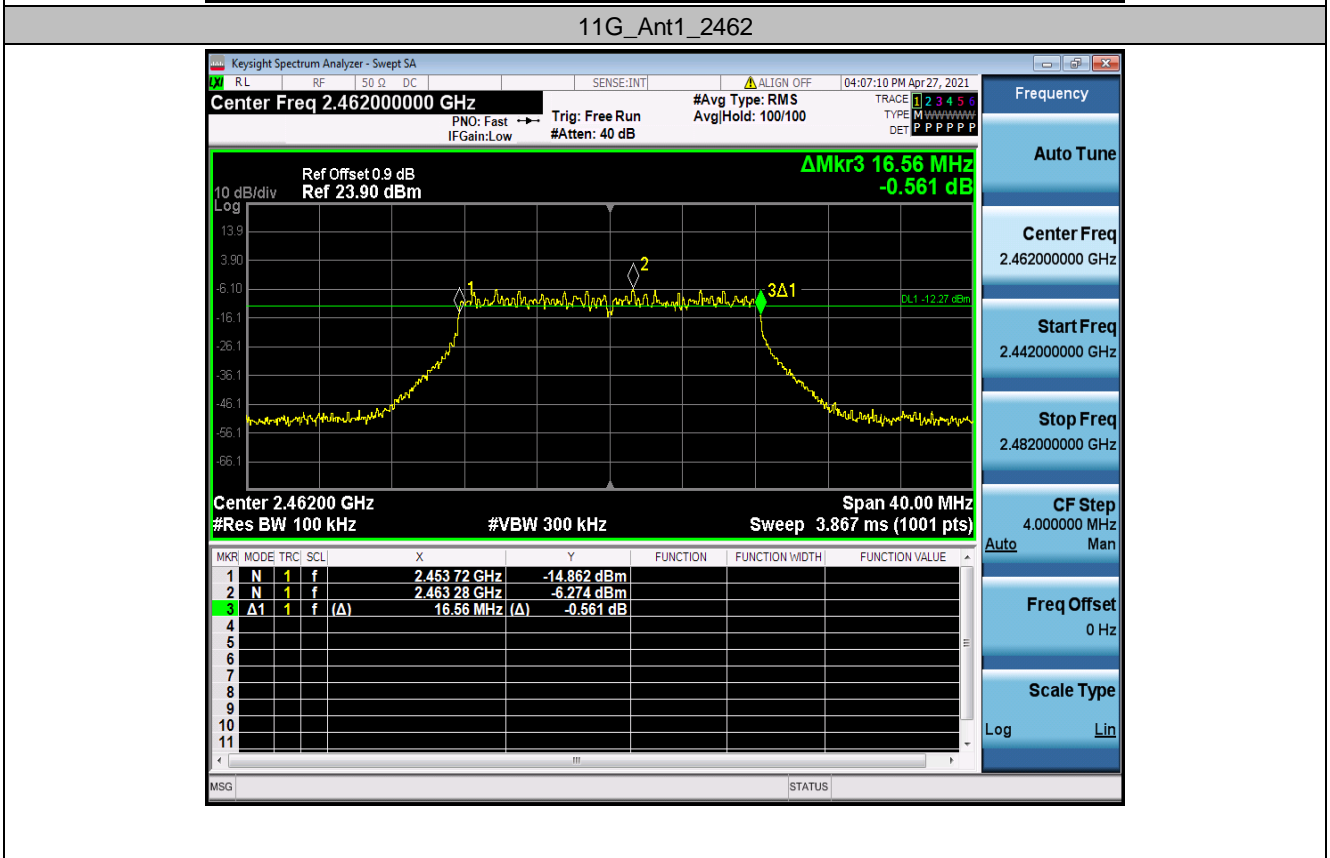
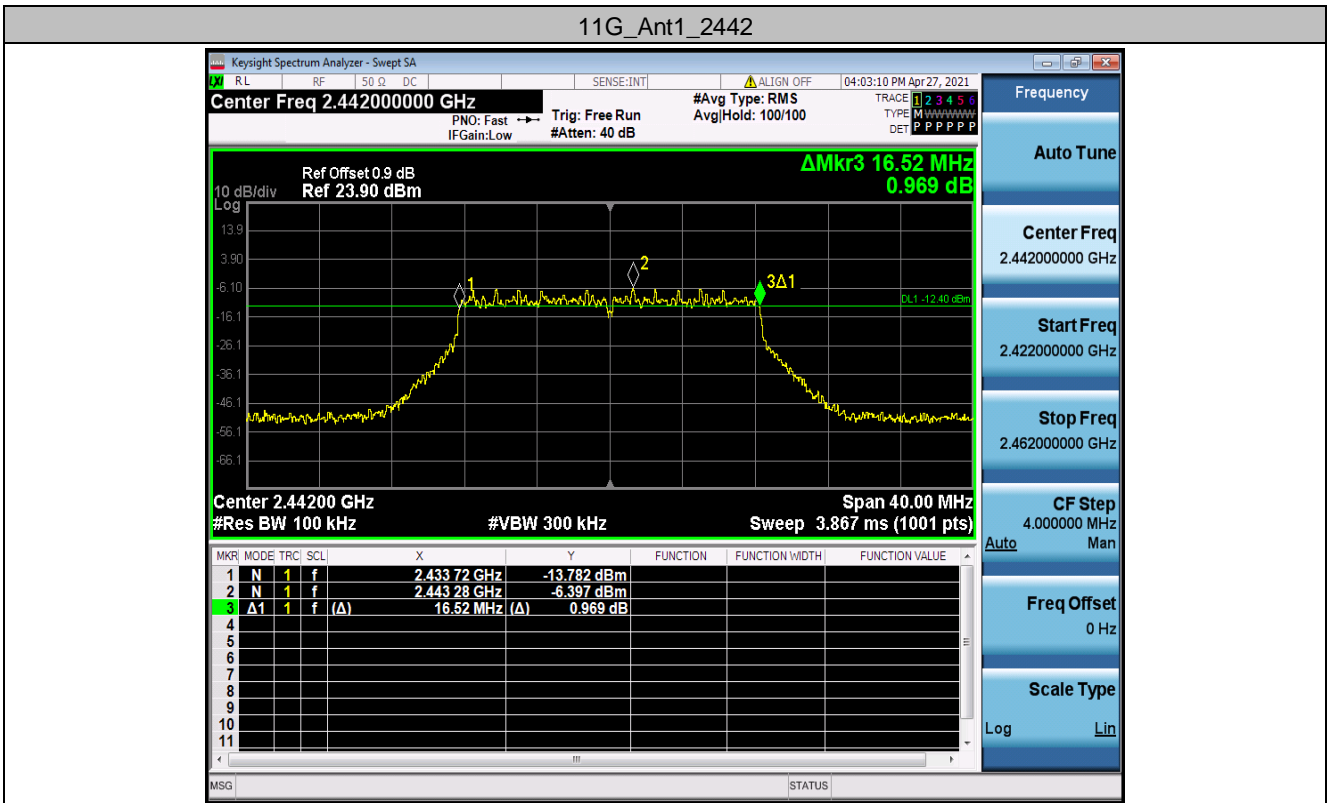
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Guangzhou Branch | 中国·广州·经济技术开发区科学城珠路198号 | 邮编: 510663 | (86-20) 82155555 | (86-20) 82075058 | sgs.china@sgs.com



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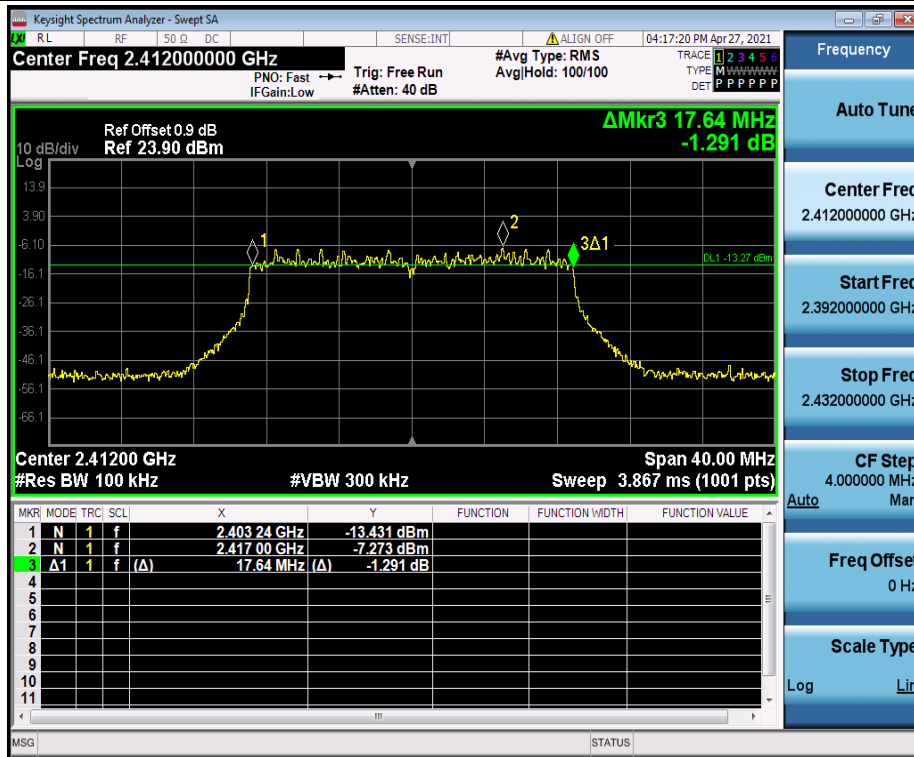
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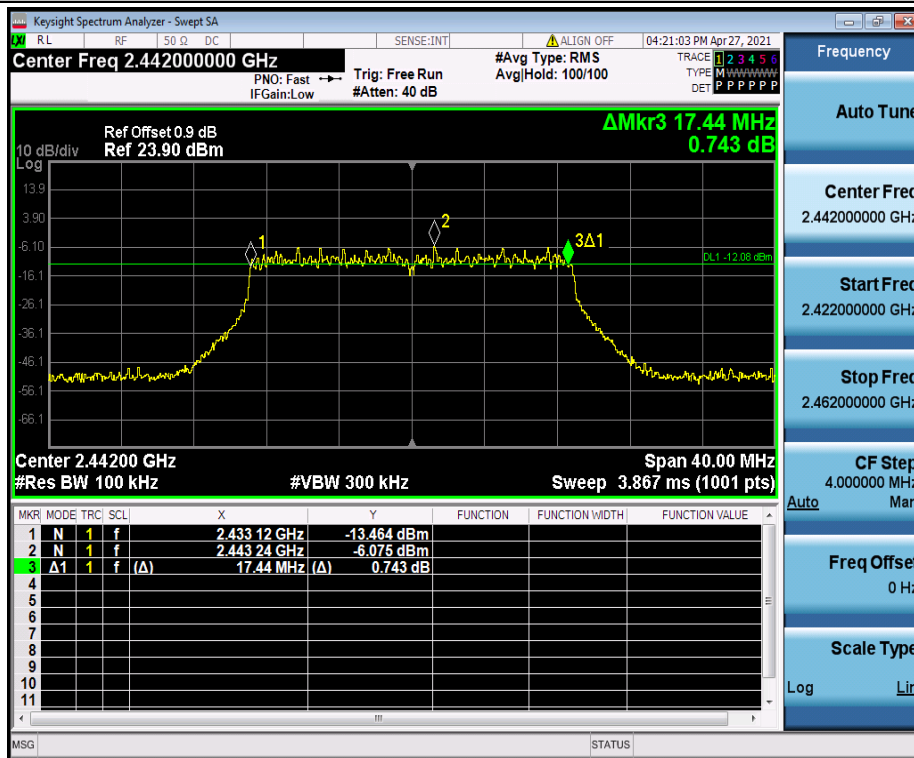
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11N20SISO_Ant1_2412

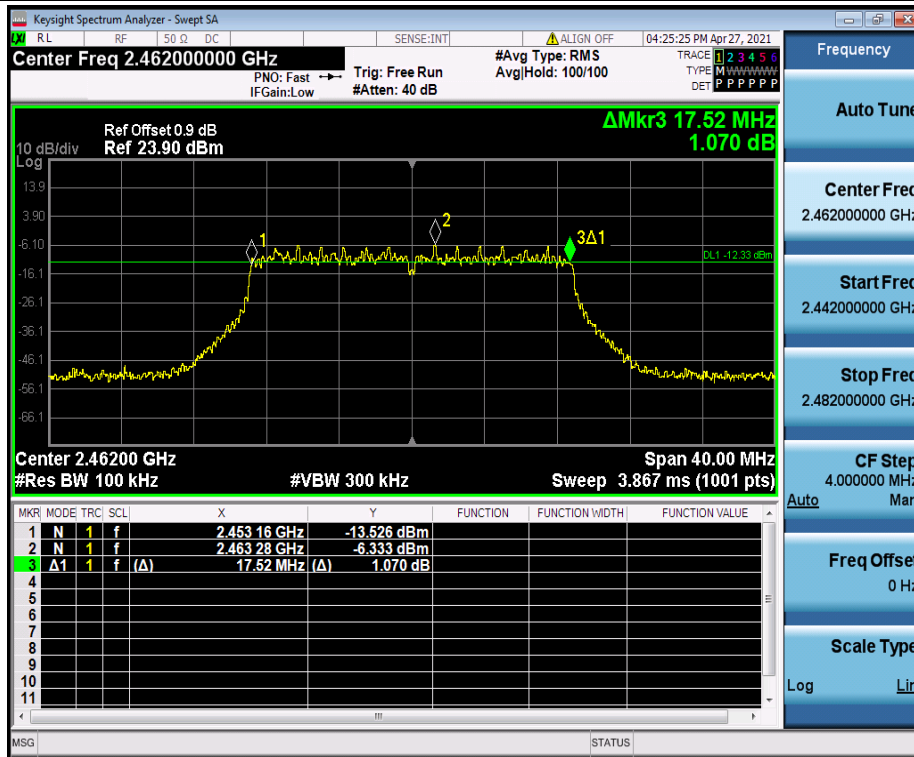


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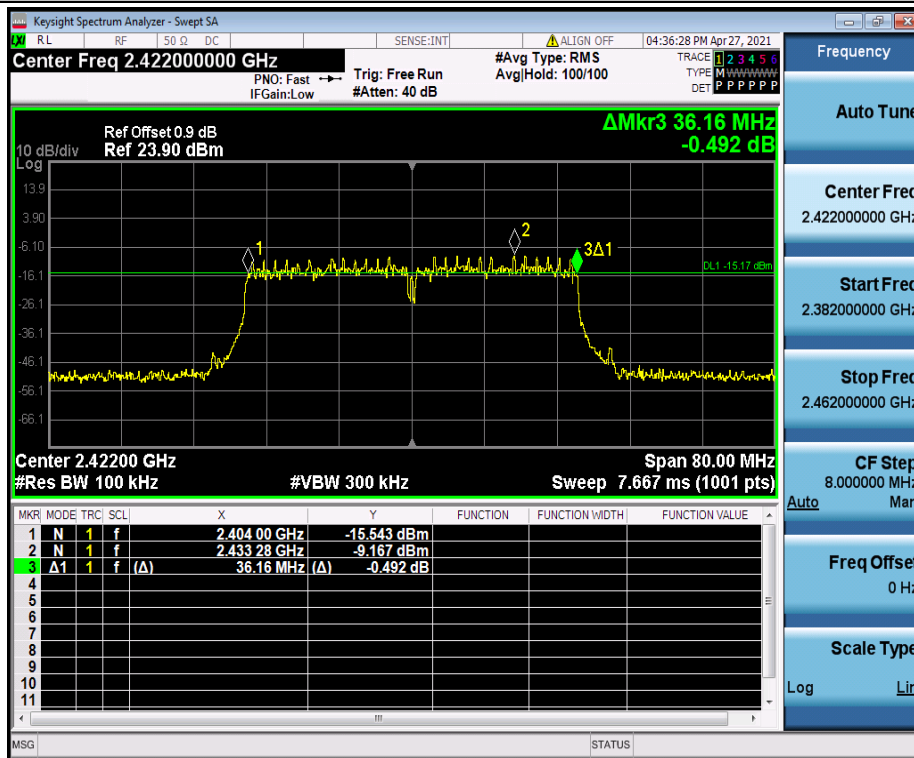


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11N20SISO_Ant1_2462

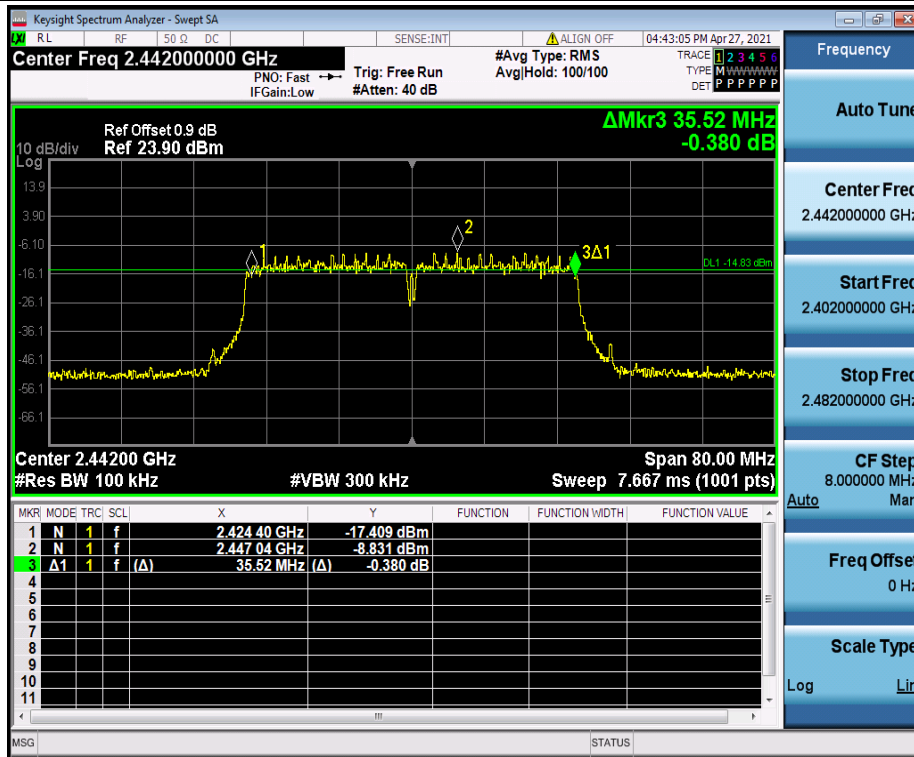


11N40SISO_Ant1_2422

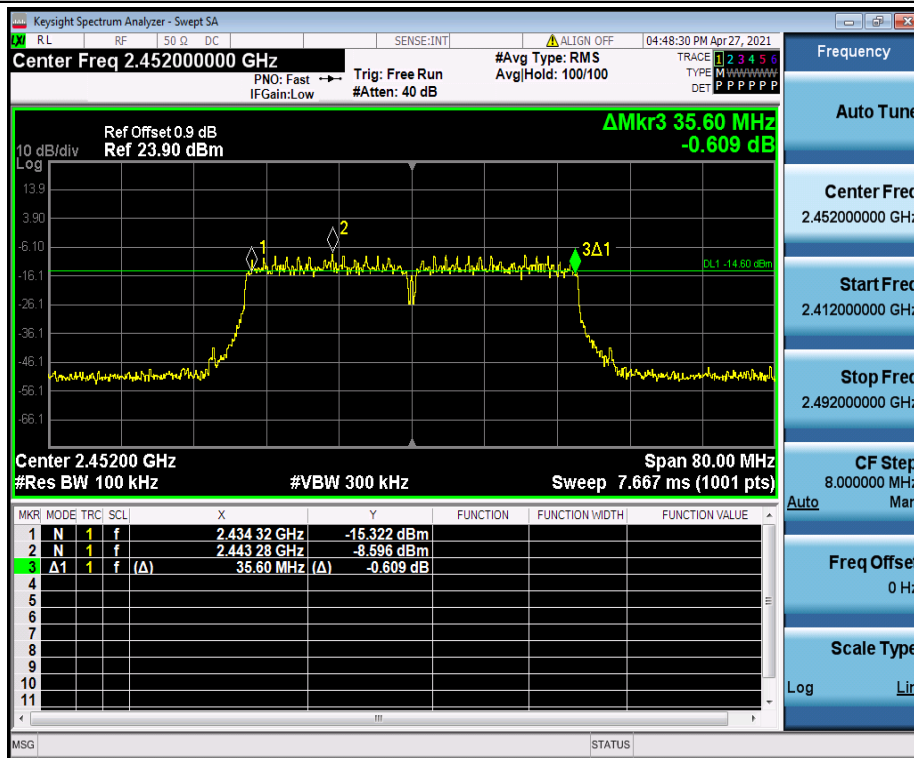


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11N40SISO_Ant1_2442



11N40SISO_Ant1_2452



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8.2 Appendix B: Maximum conducted output power

8.2.1 Test Result

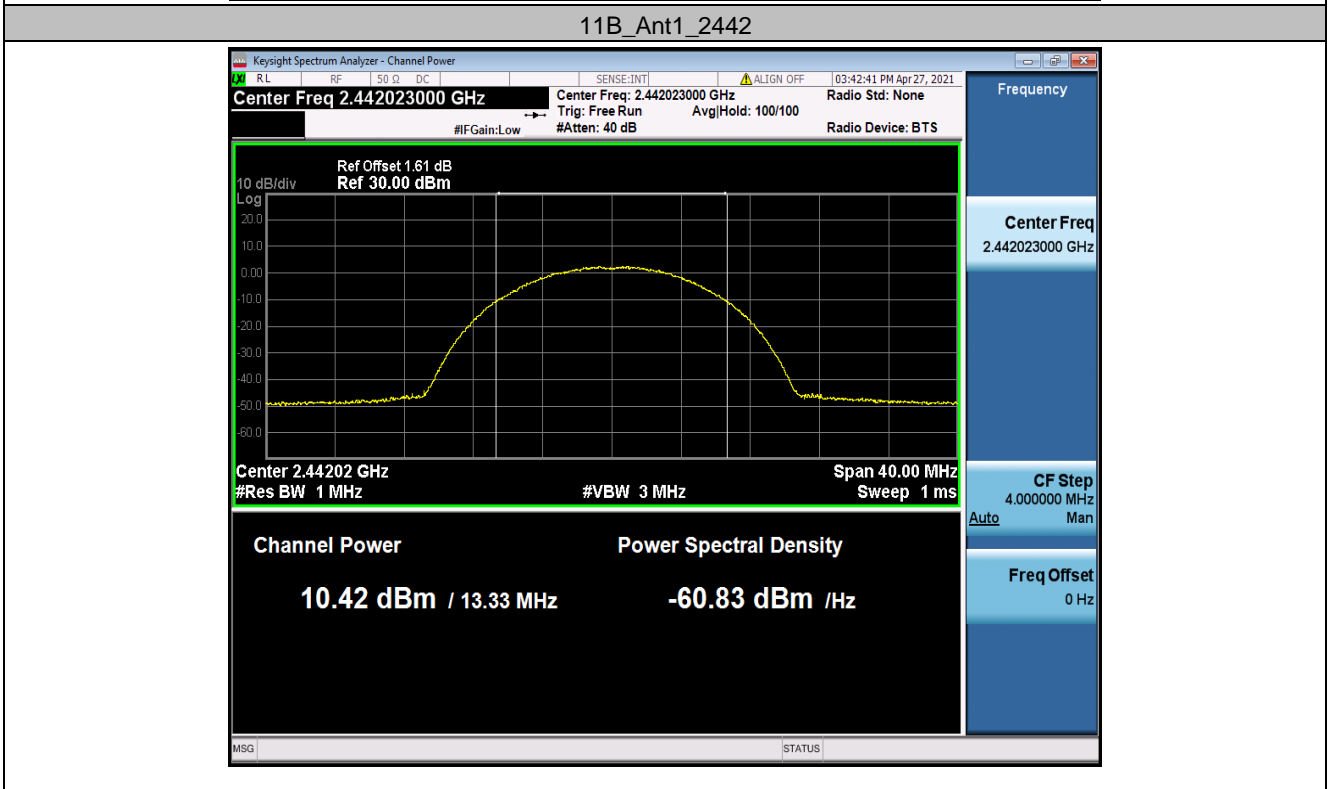
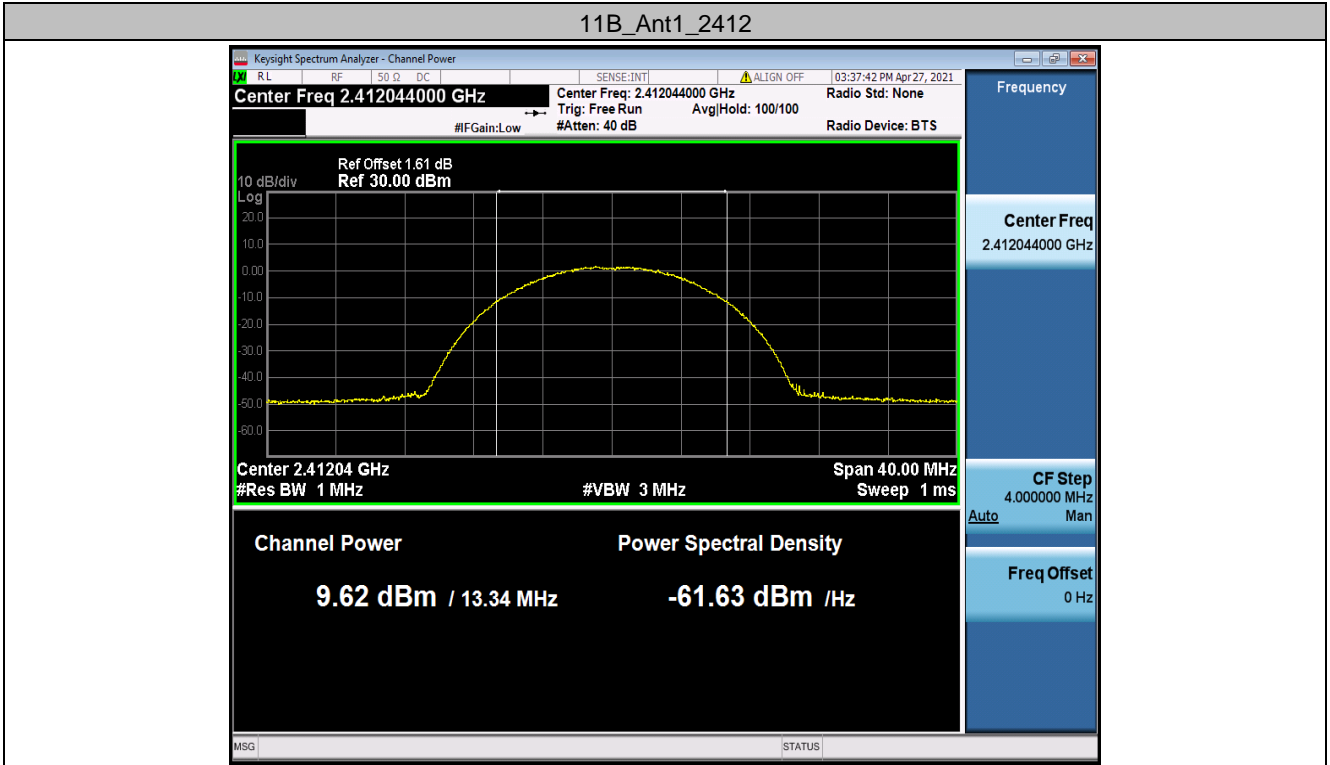
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
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		2442	10.42	<=30	PASS
		2462	10.05	<=30	PASS
11G	Ant1	2412	5.11	<=30	PASS
		2442	5.86	<=30	PASS
		2462	6.00	<=30	PASS
11N20SISO	Ant1	2412	5.25	<=30	PASS
		2442	6.33	<=30	PASS
		2462	6.38	<=30	PASS
11N40SISO	Ant1	2422	6.43	<=30	PASS
		2442	6.79	<=30	PASS
		2452	6.18	<=30	PASS



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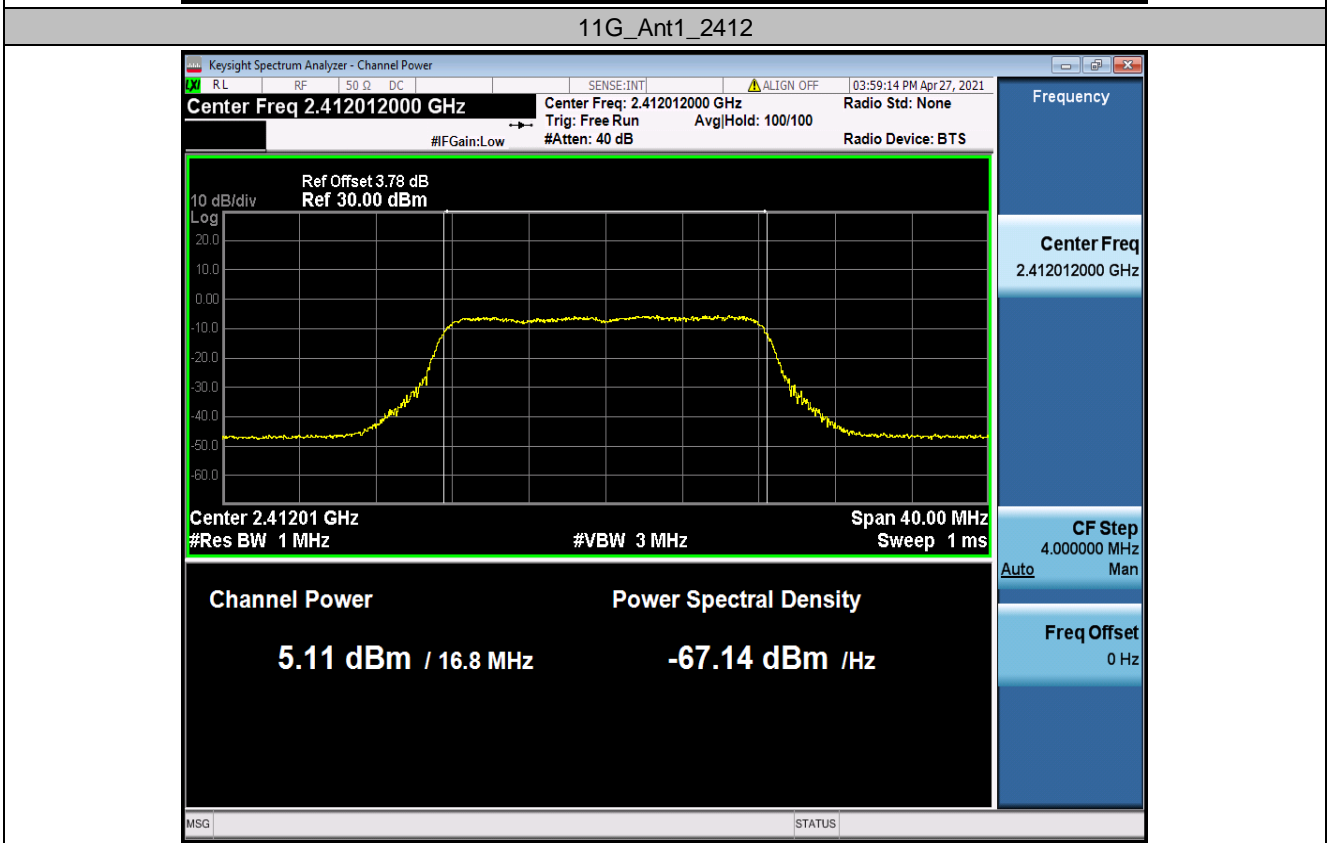
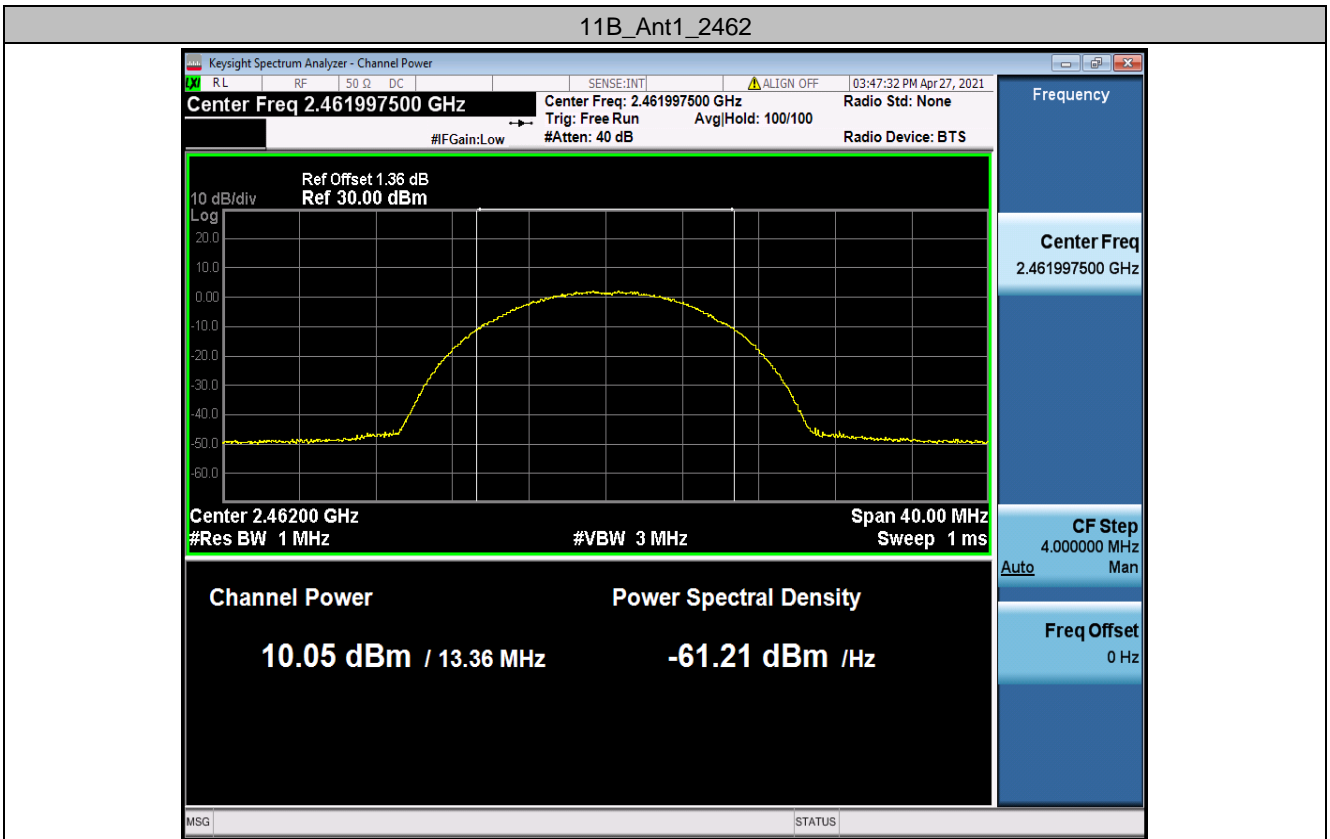
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8.2.2 Test Graphs

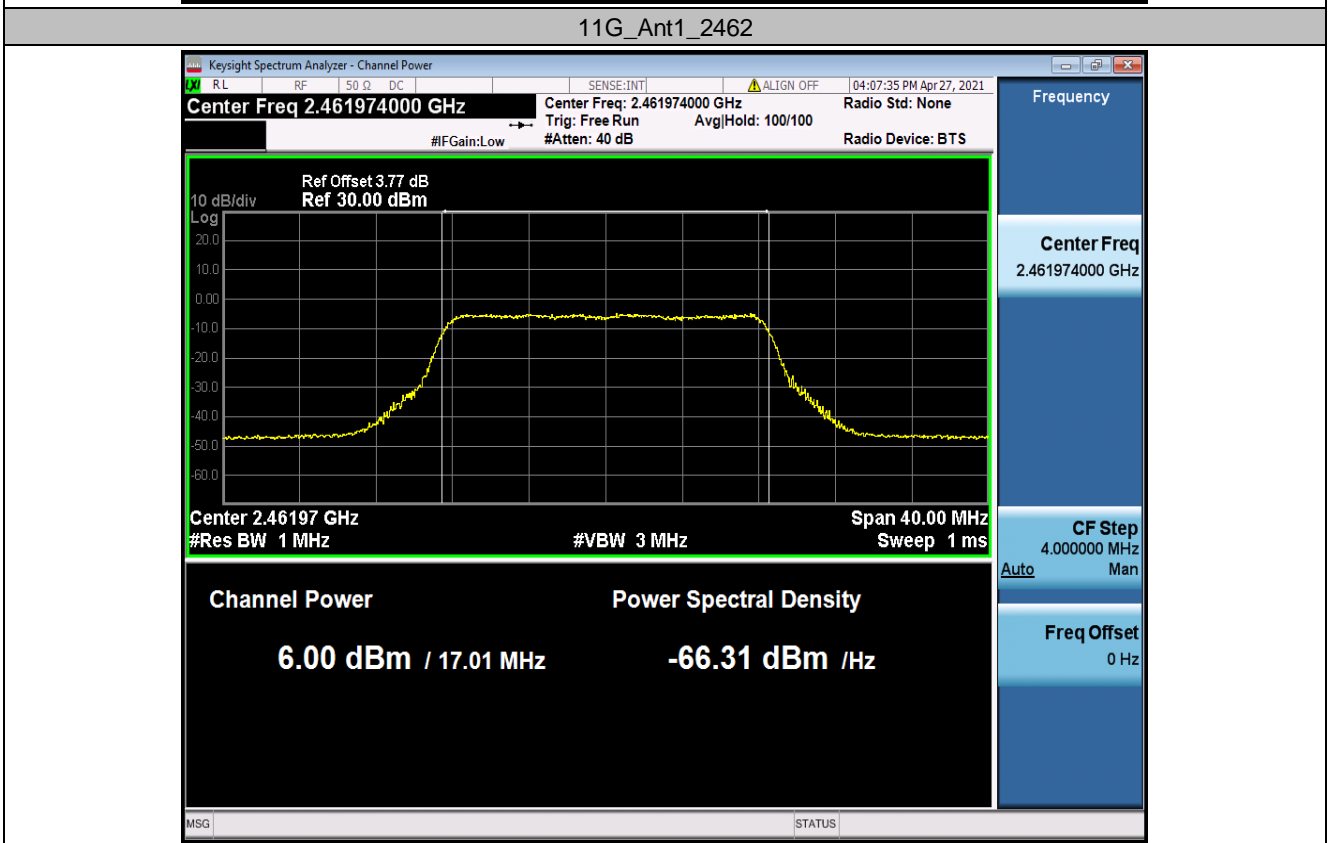
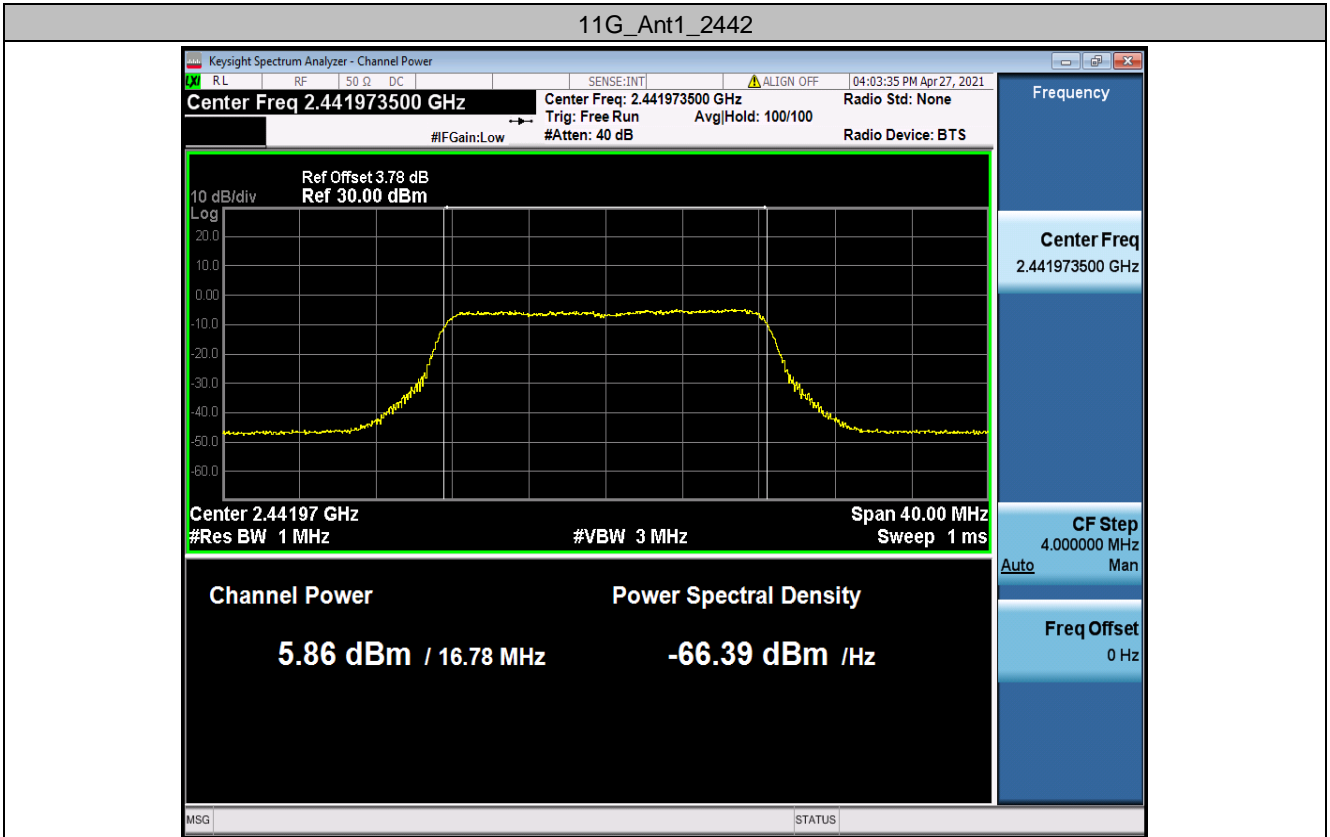


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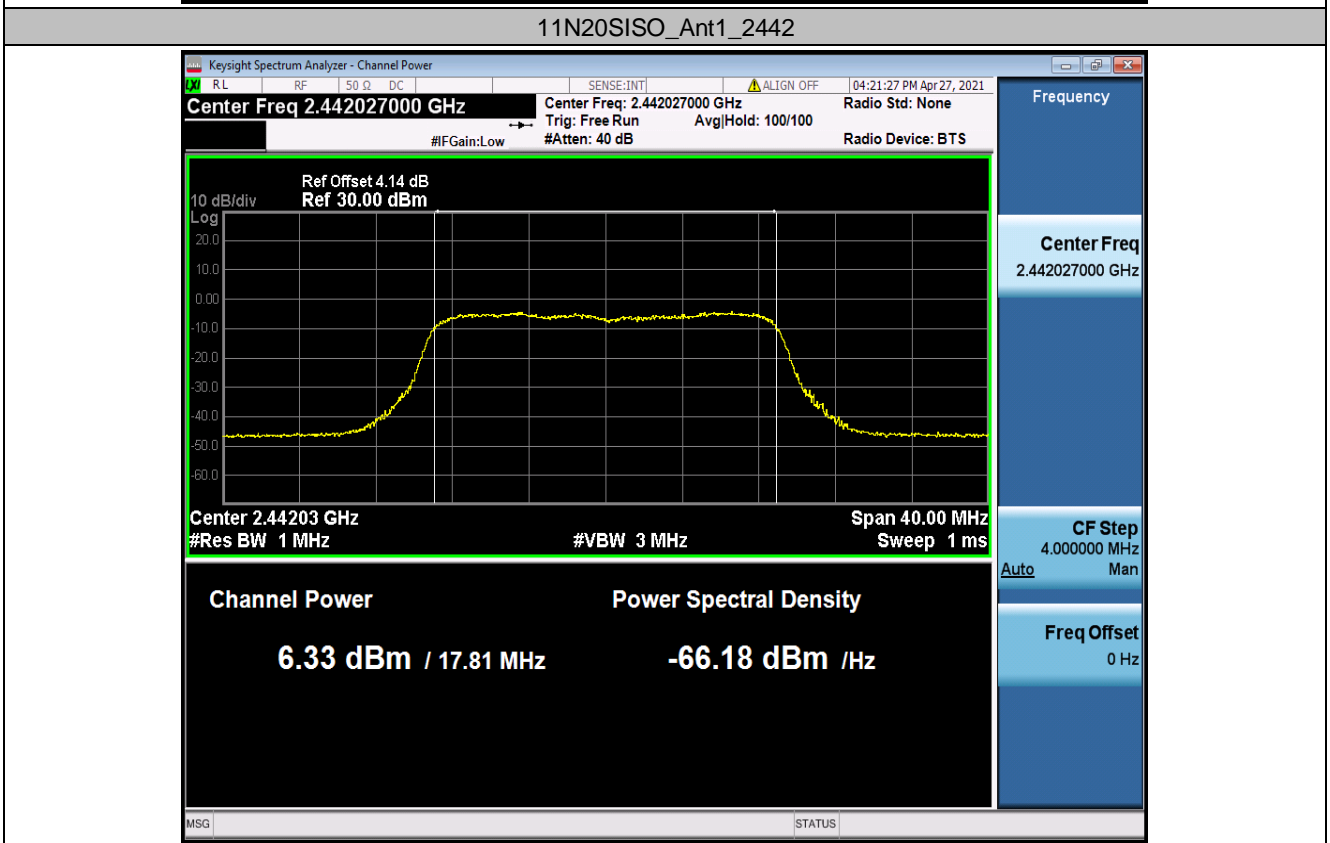
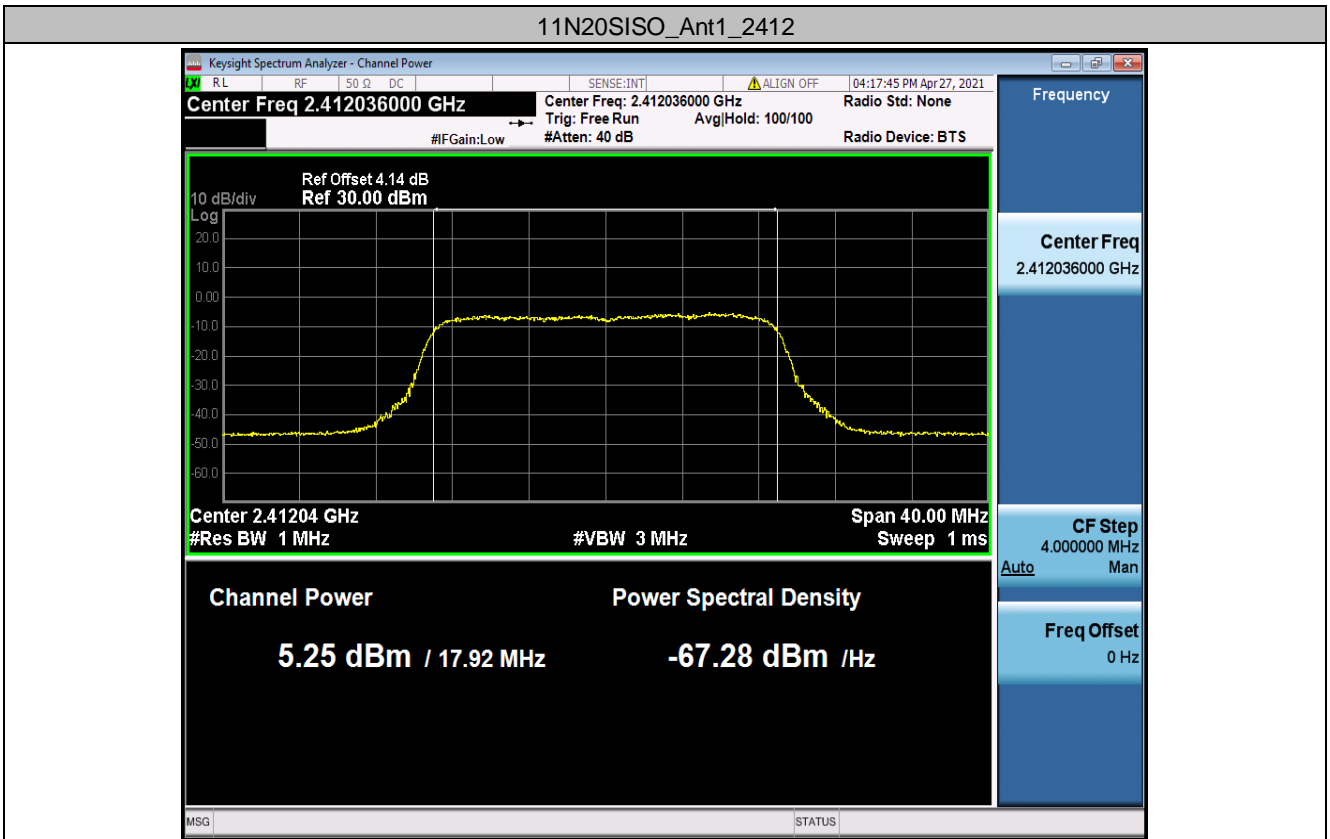


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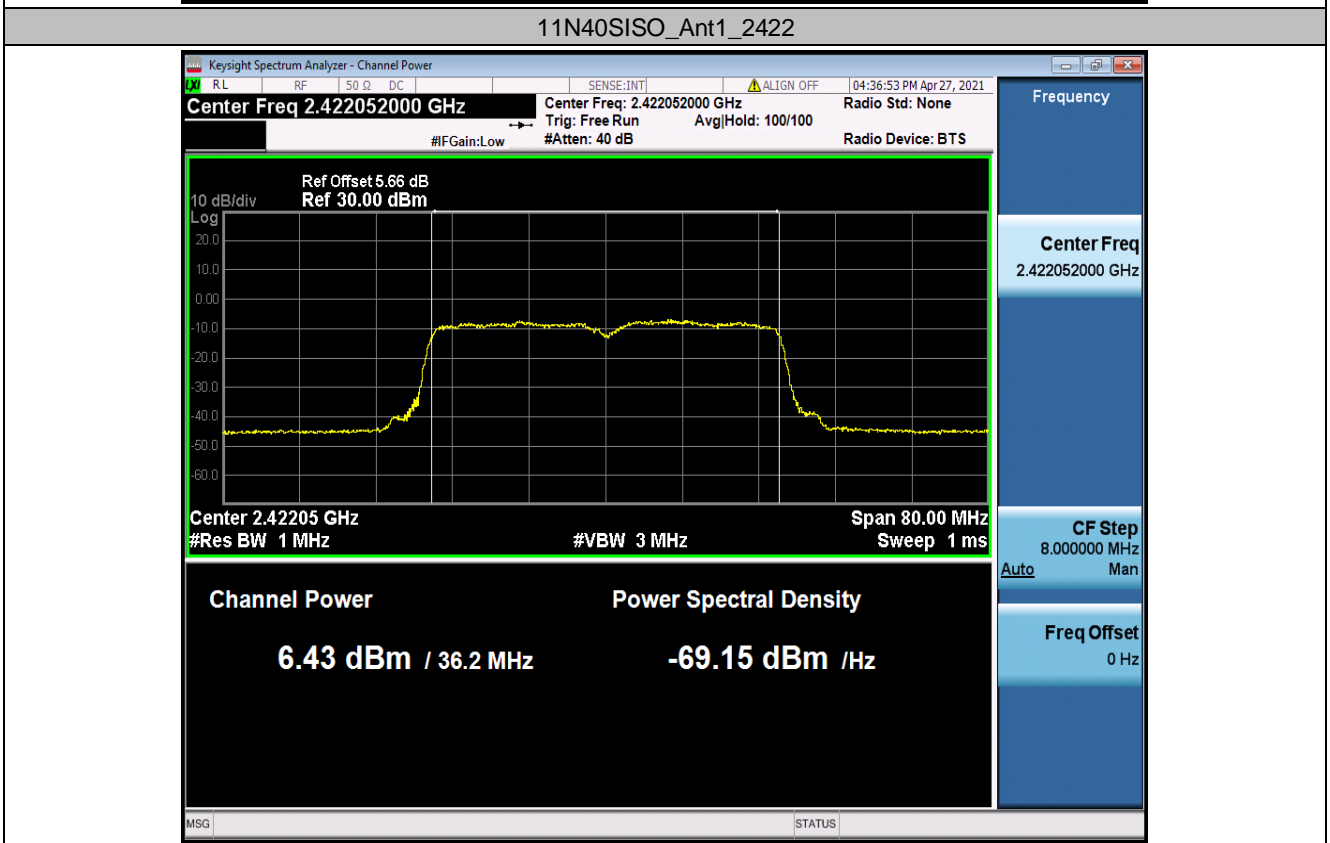
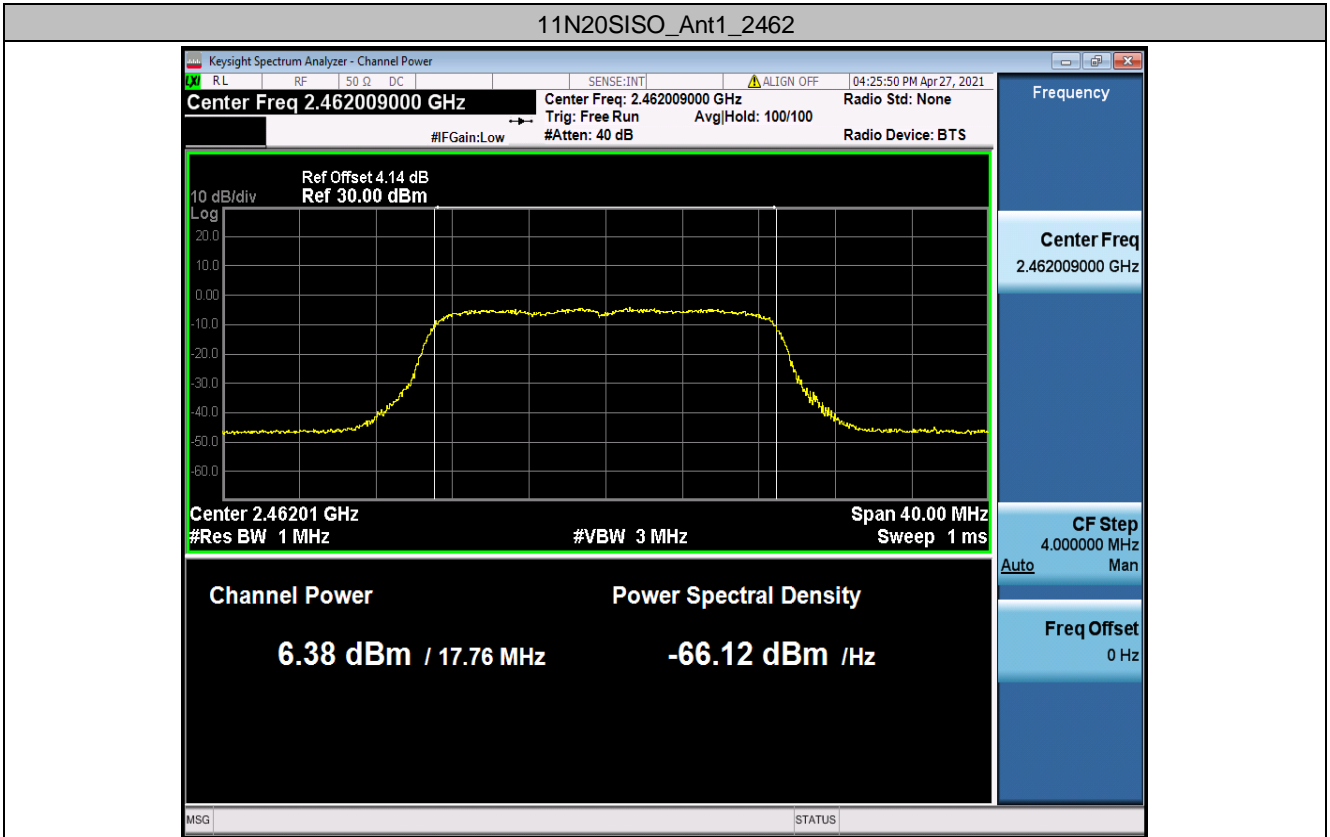
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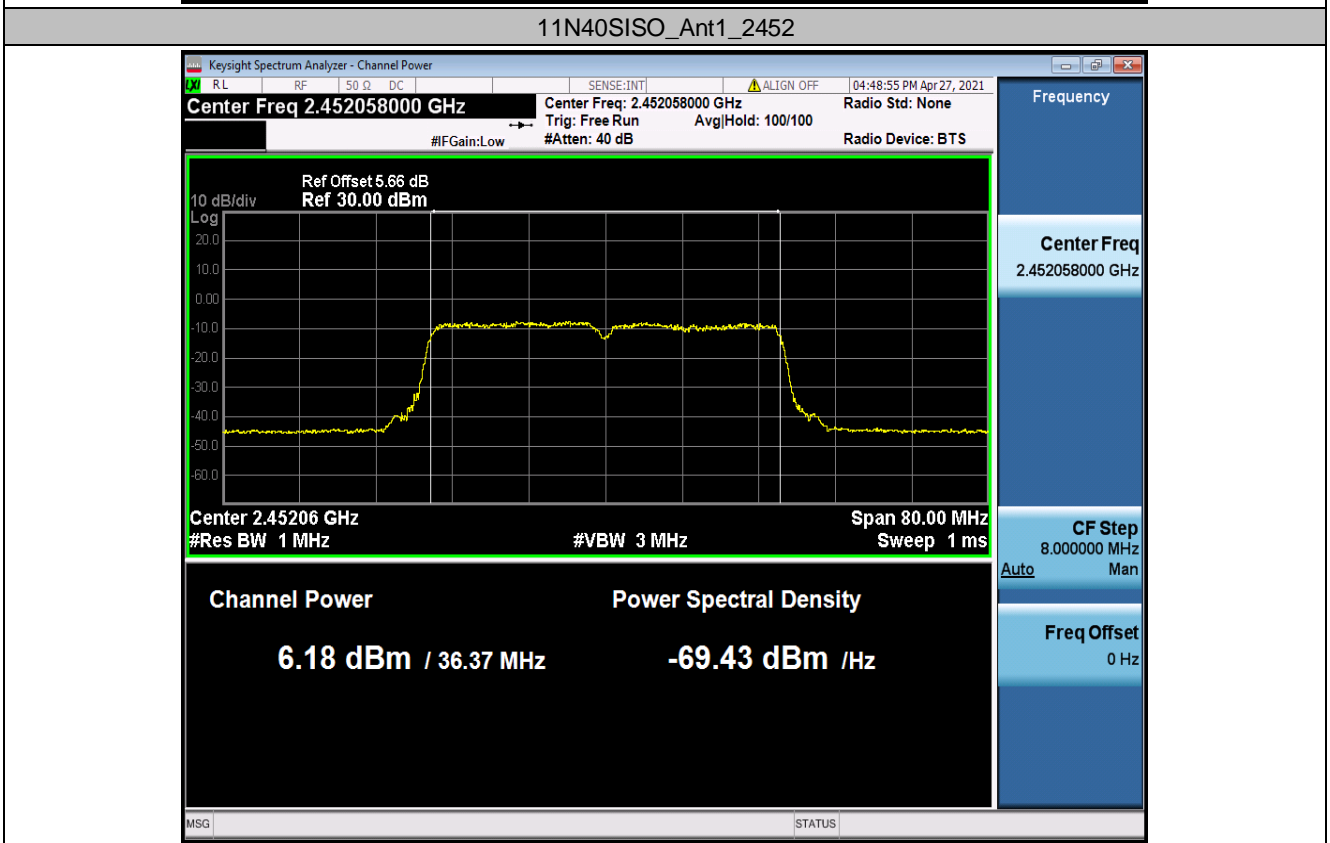
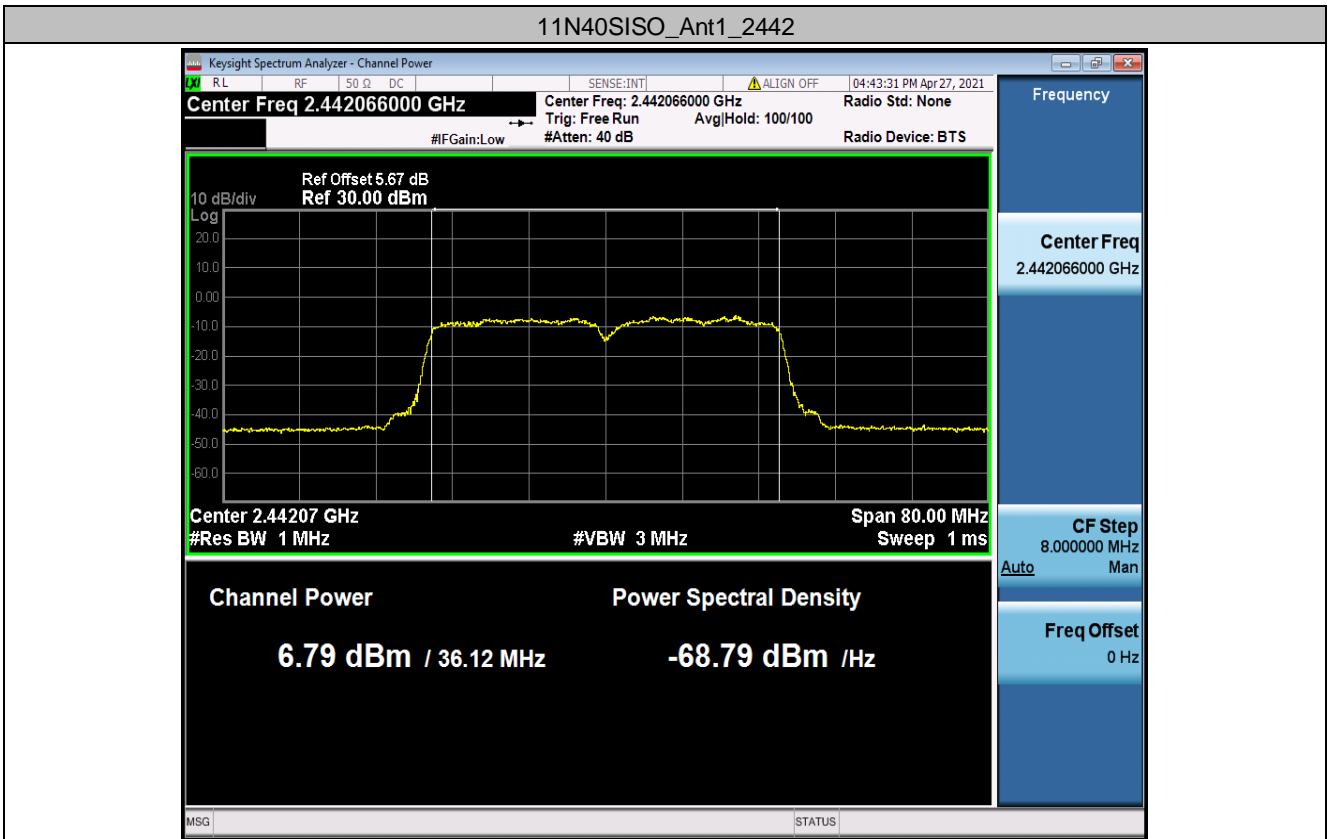
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8.3 Appendix C: Maximum power spectral density

8.3.1 Test Result

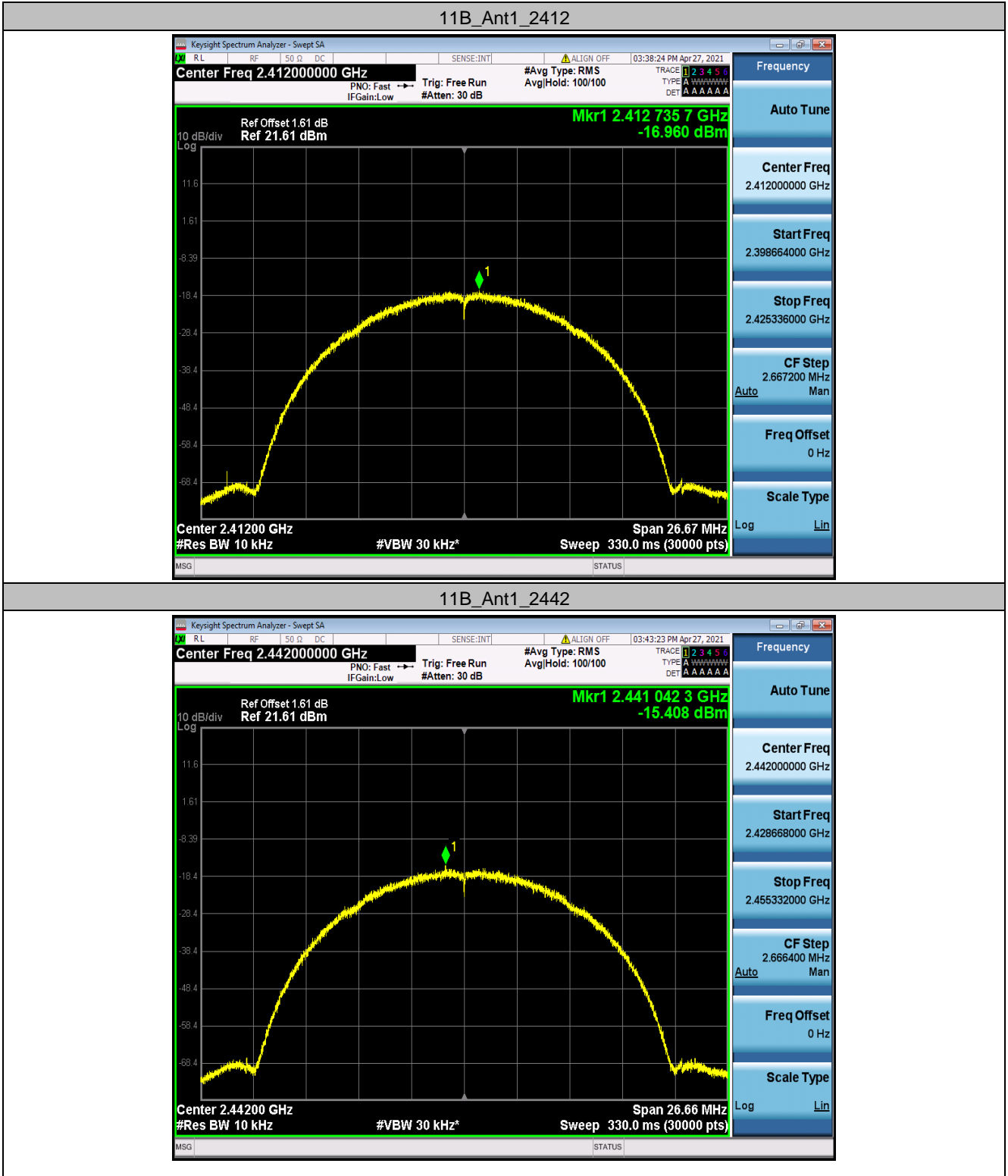
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		2442	-15.38	<=8	PASS
		2462	-16.42	<=8	PASS
11G	Ant1	2412	-17.67	<=8	PASS
		2442	-18.65	<=8	PASS
		2462	-18.39	<=8	PASS
11N20SISO	Ant1	2412	-18.26	<=8	PASS
		2442	-17.4	<=8	PASS
		2462	-17.55	<=8	PASS
11N40SISO	Ant1	2422	-17.69	<=8	PASS
		2442	-17.82	<=8	PASS
		2452	-17.2	<=8	PASS



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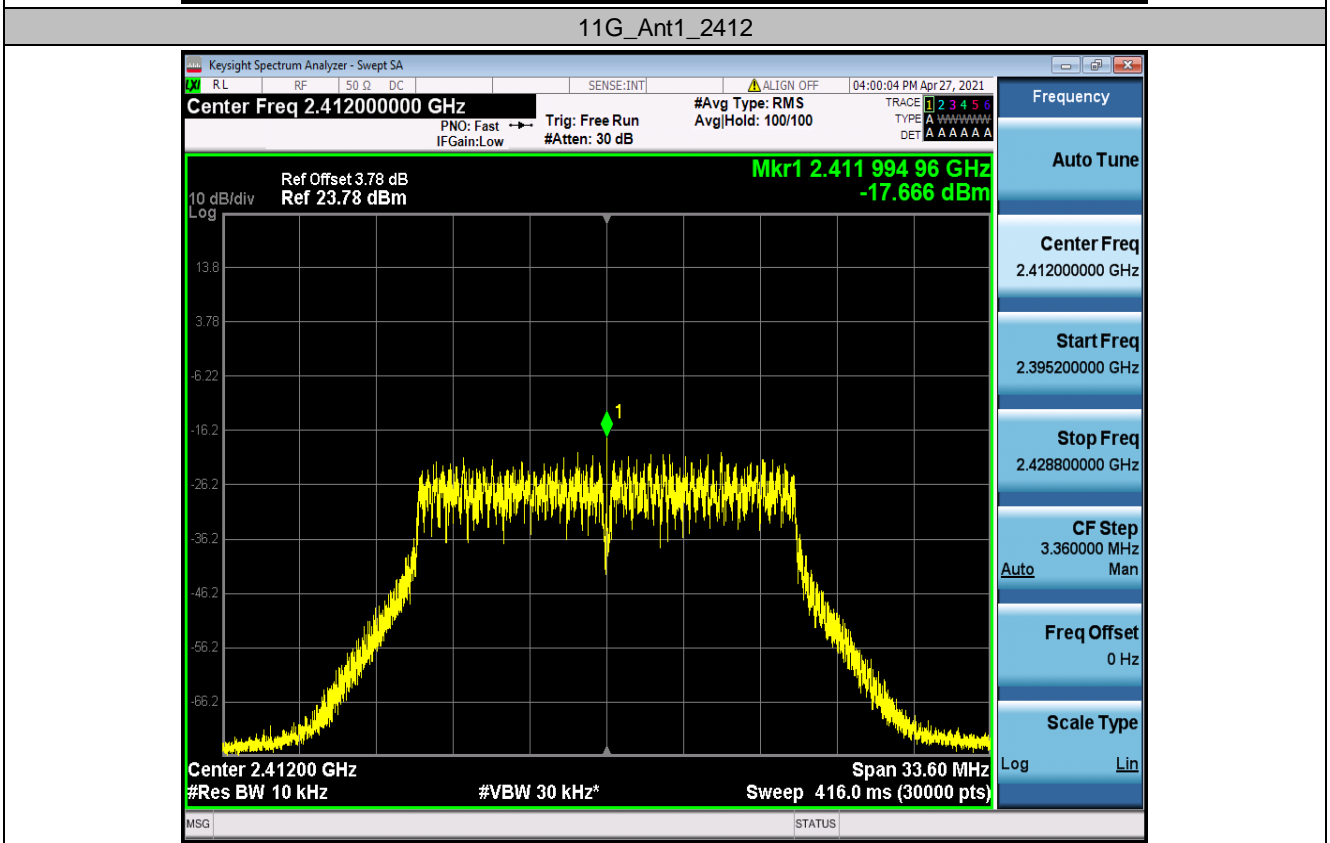
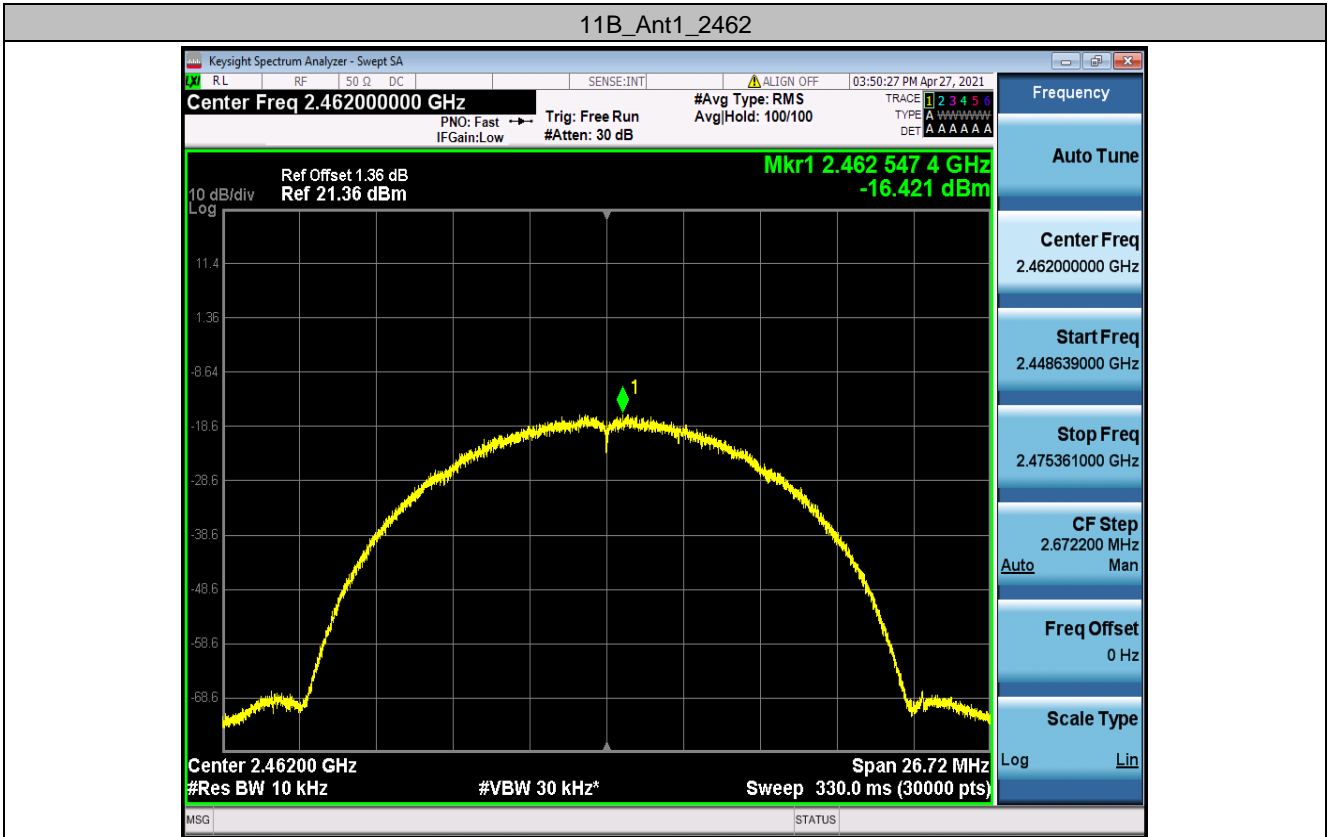
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8.3.2 Test Graphs



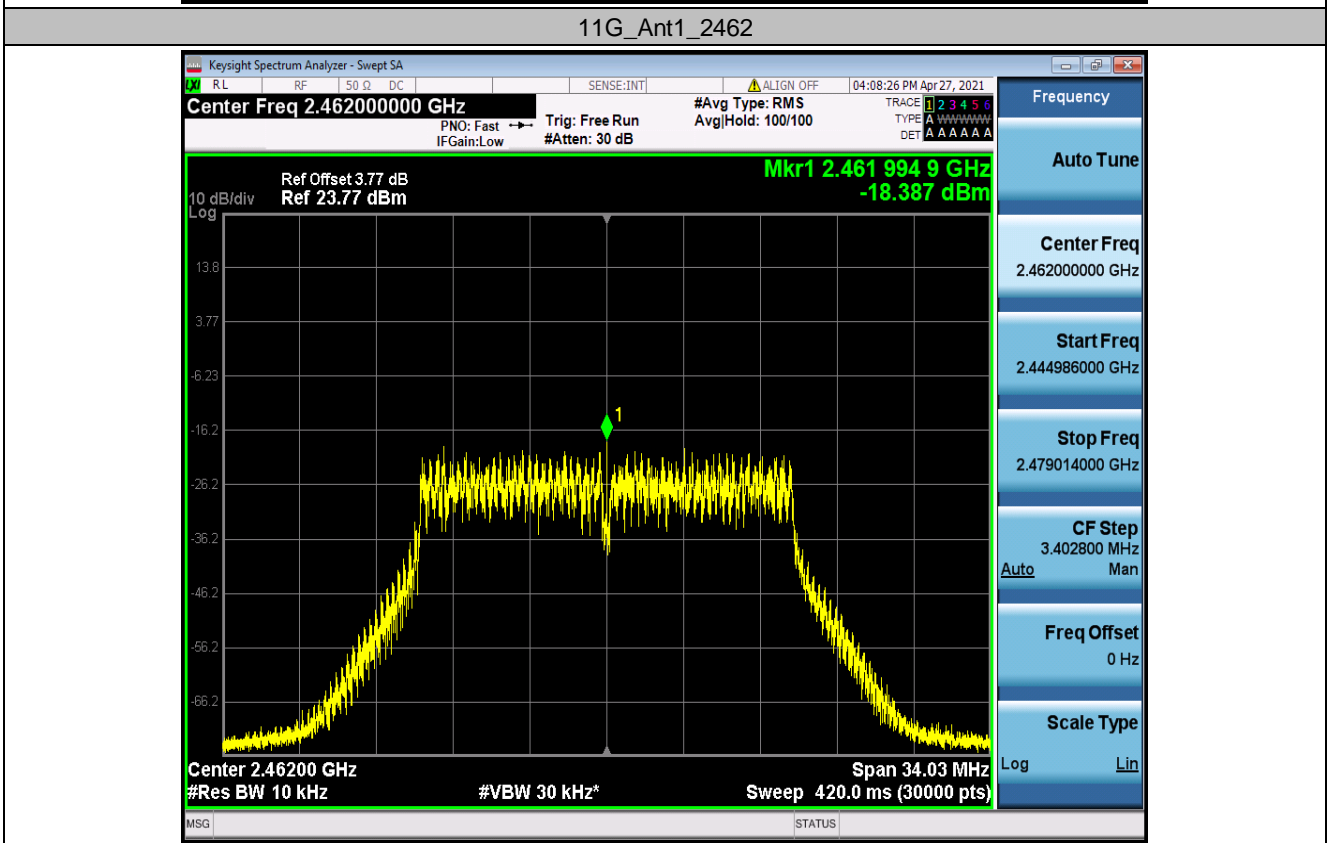
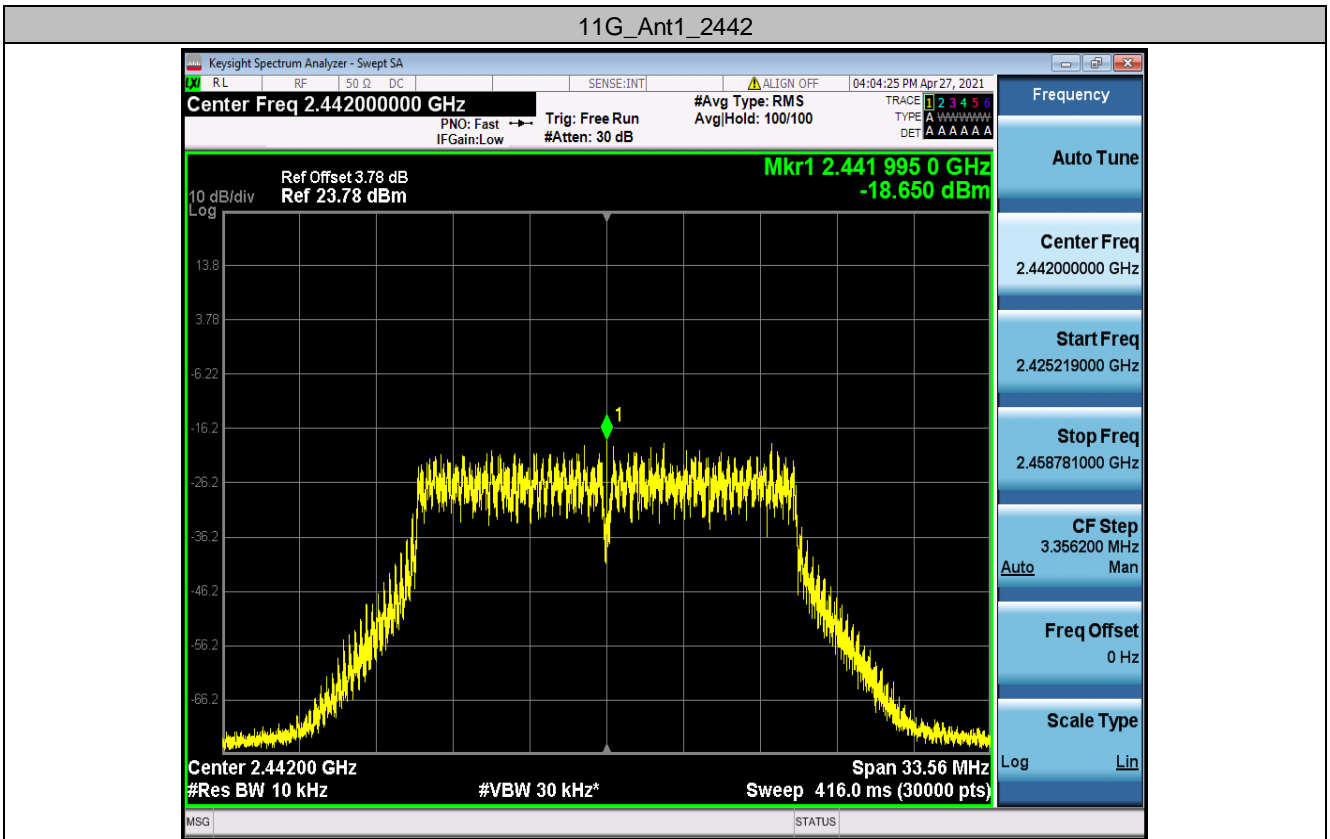
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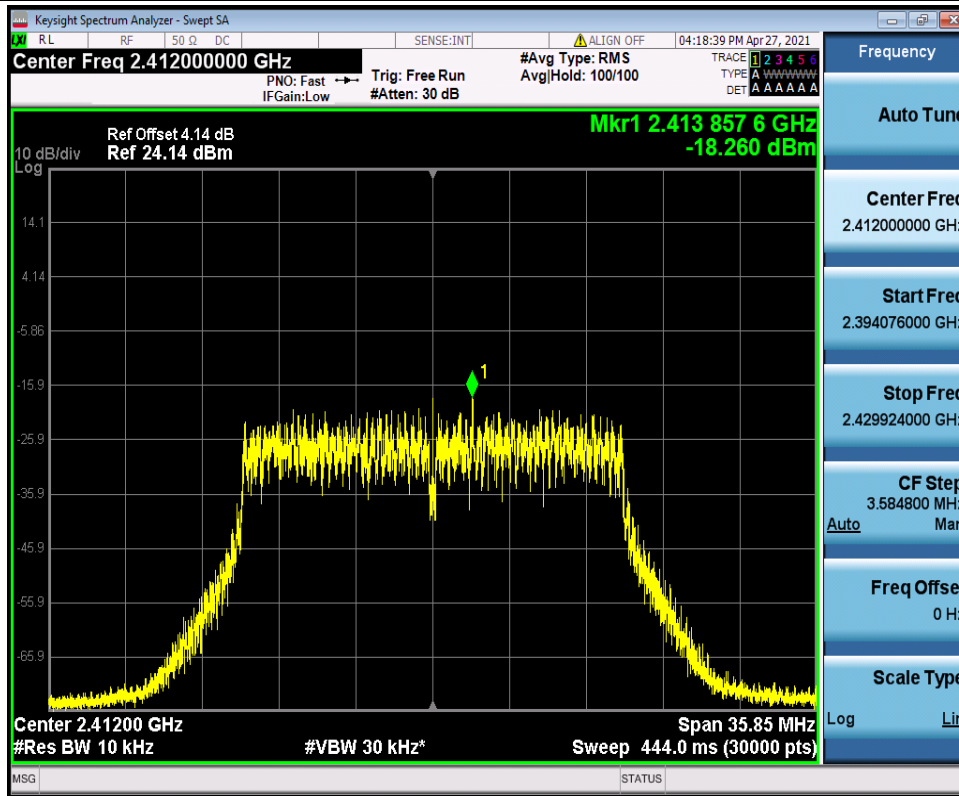
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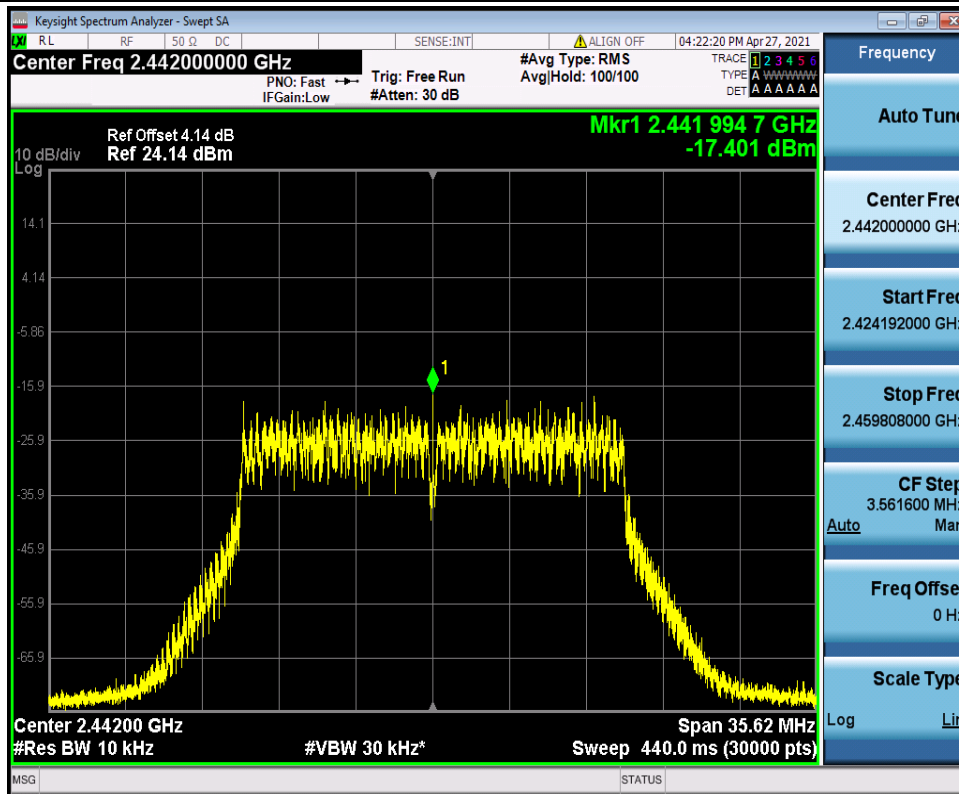
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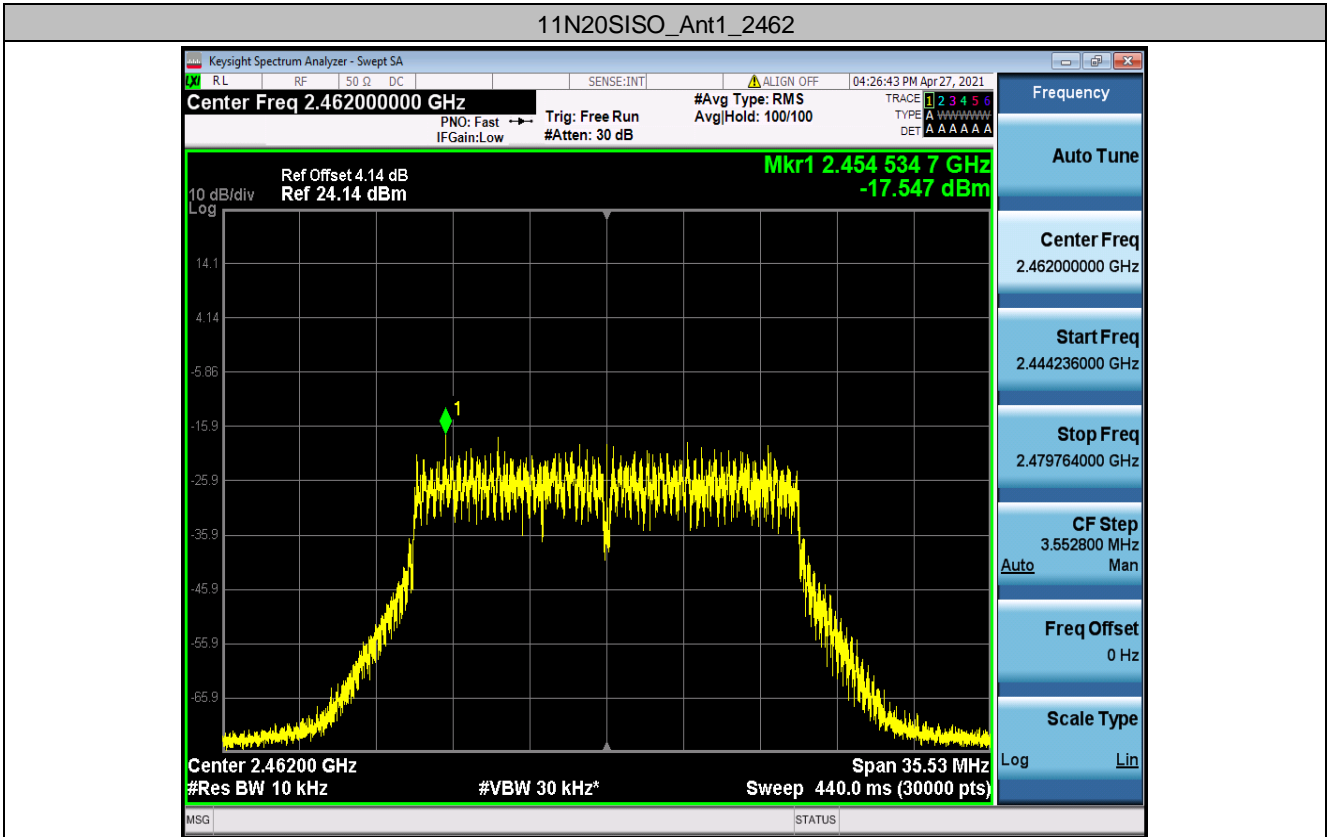
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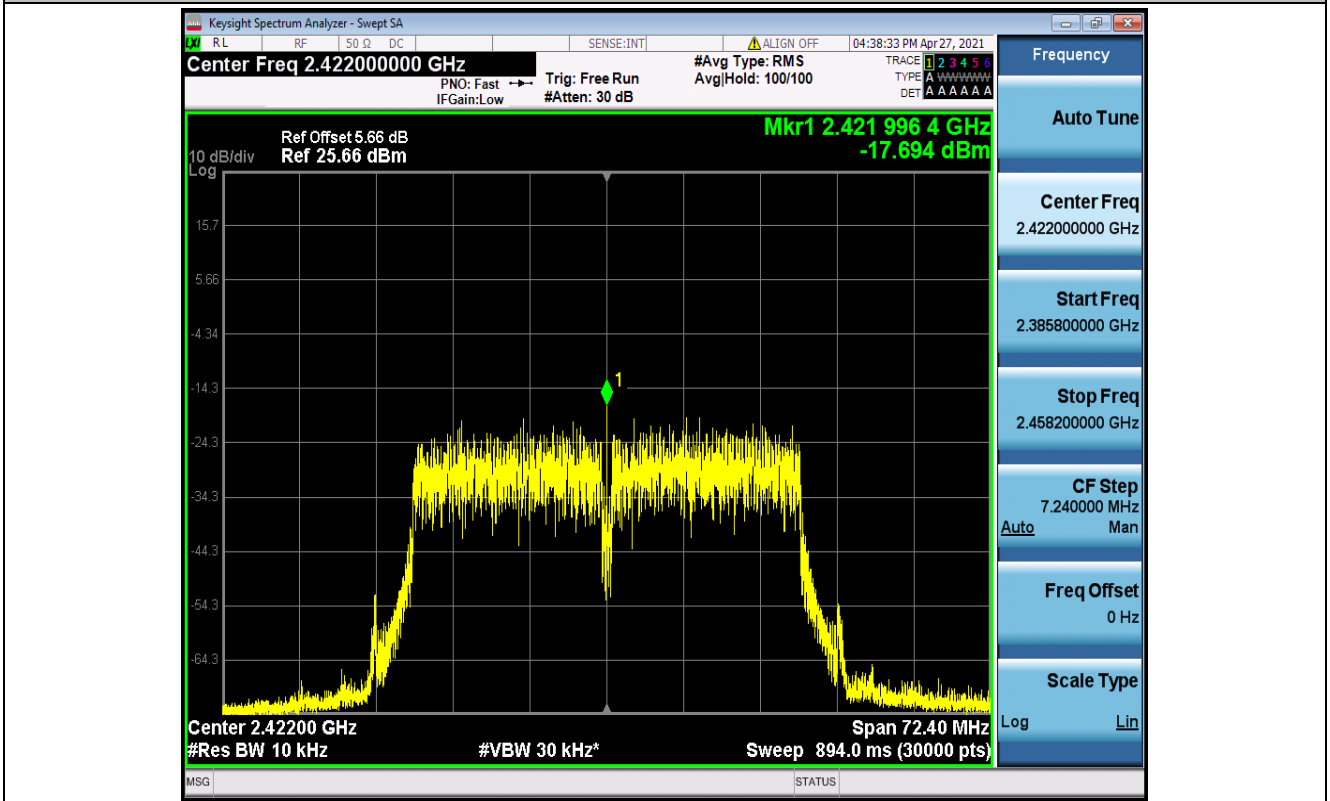
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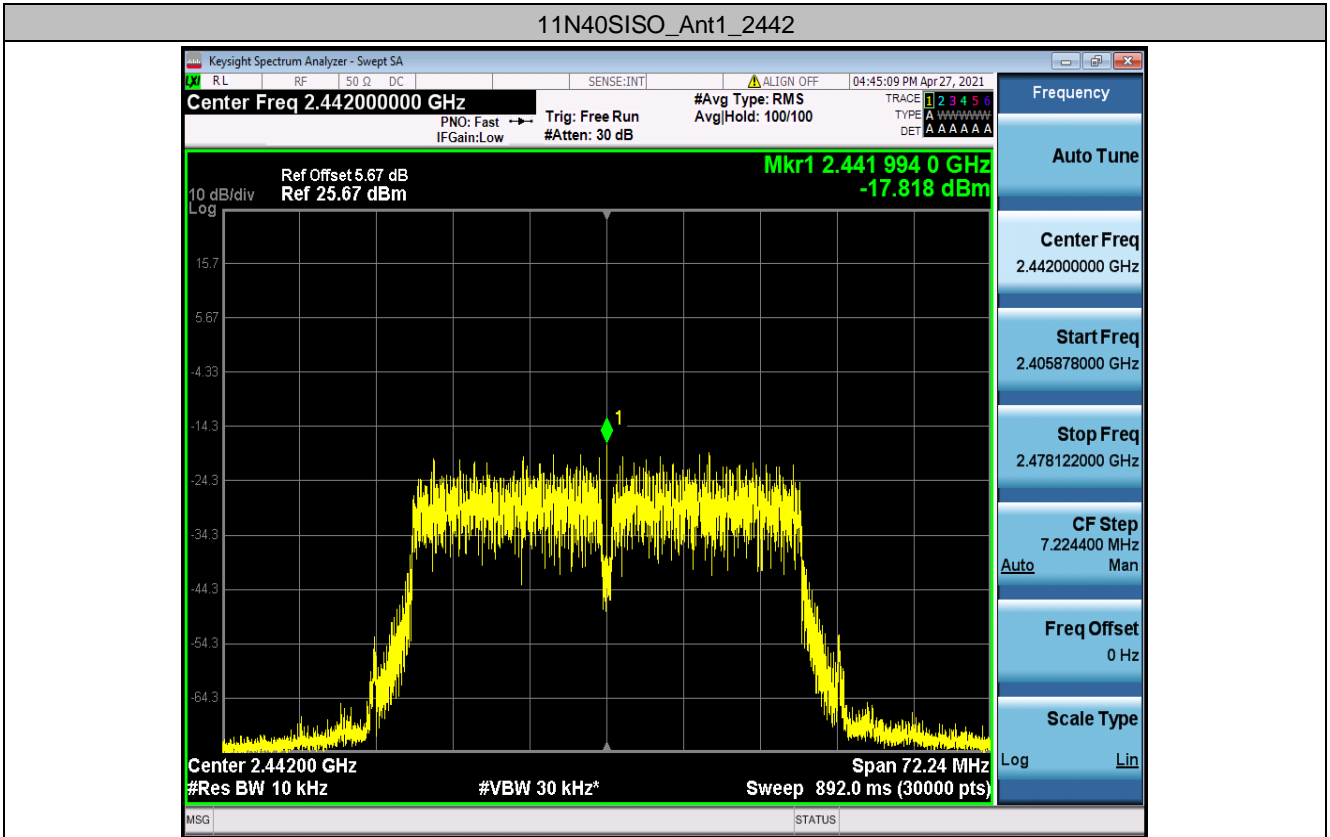


11N40SISO_Ant1_2422

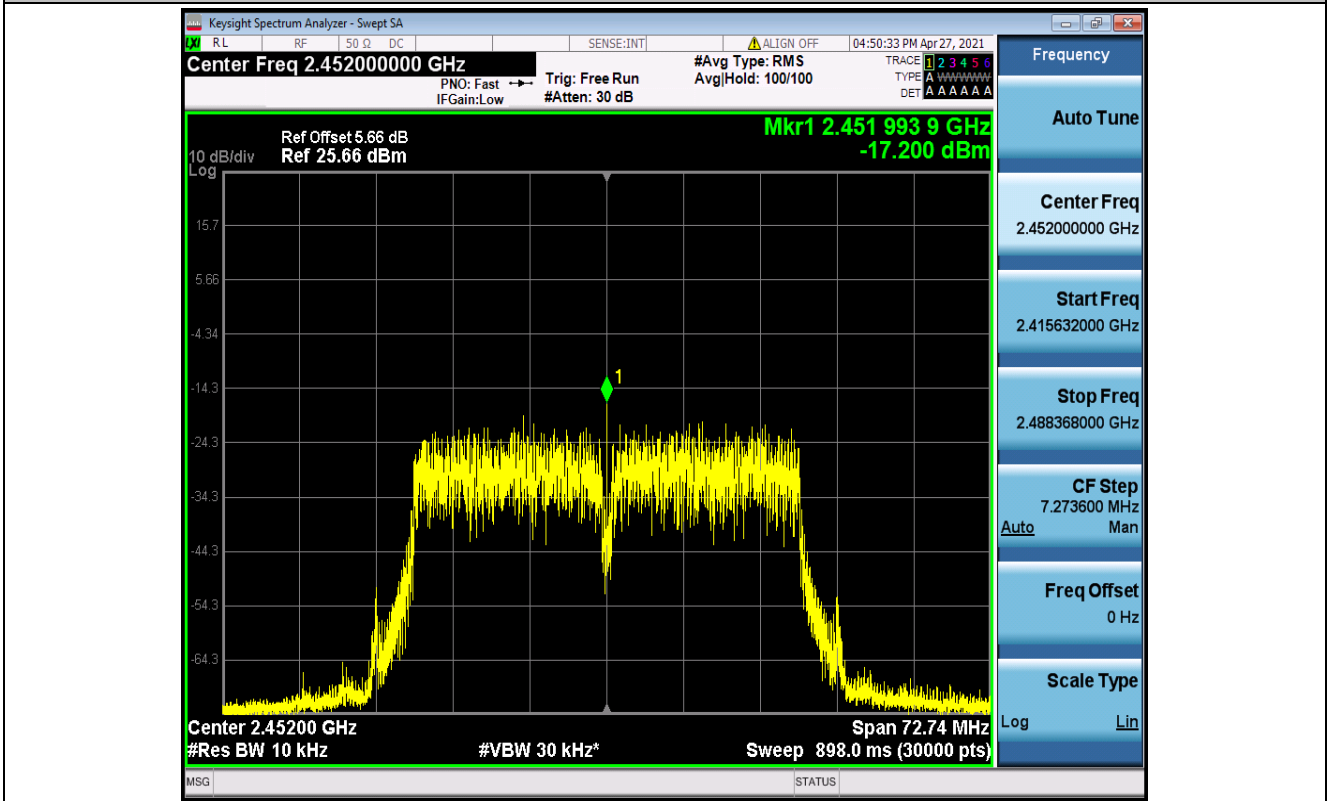


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8.4 Appendix D: Band edge measurements

8.4.1 Test Result

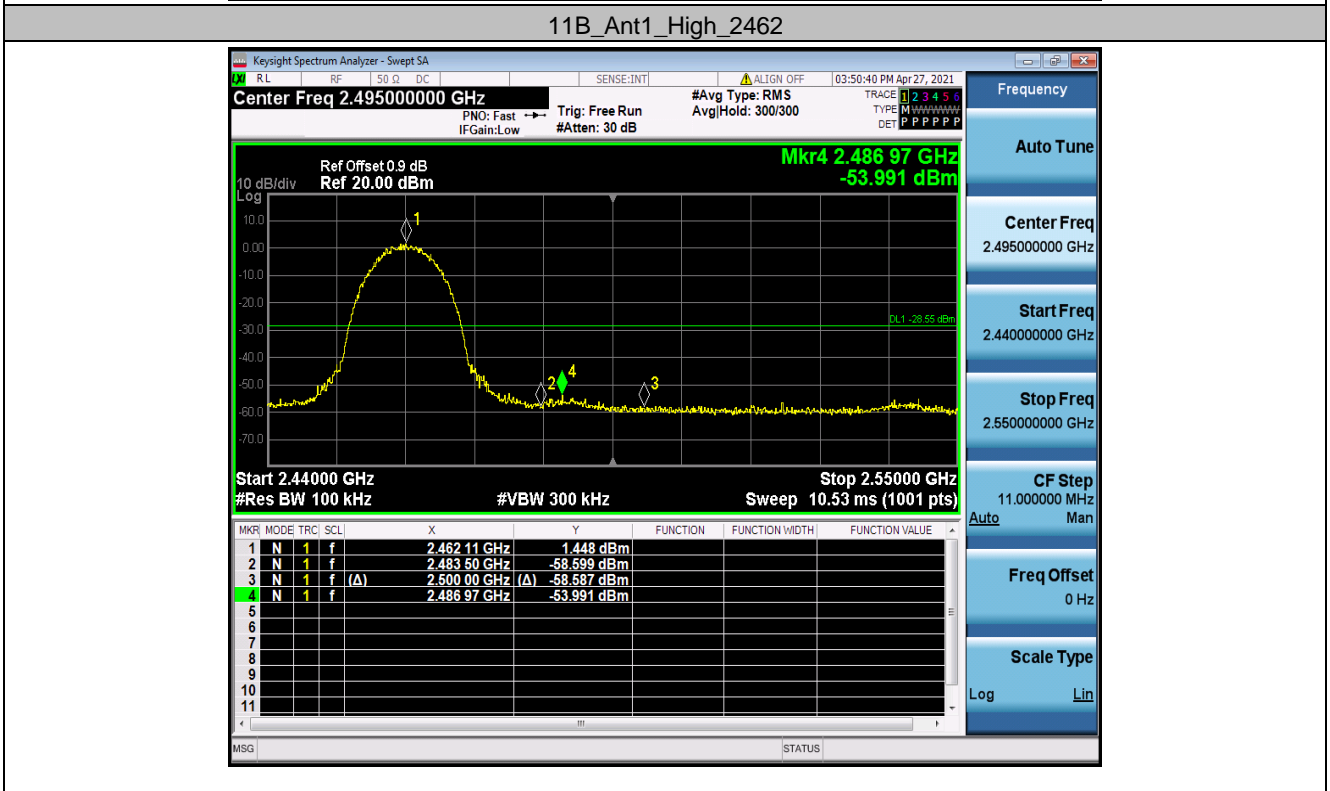
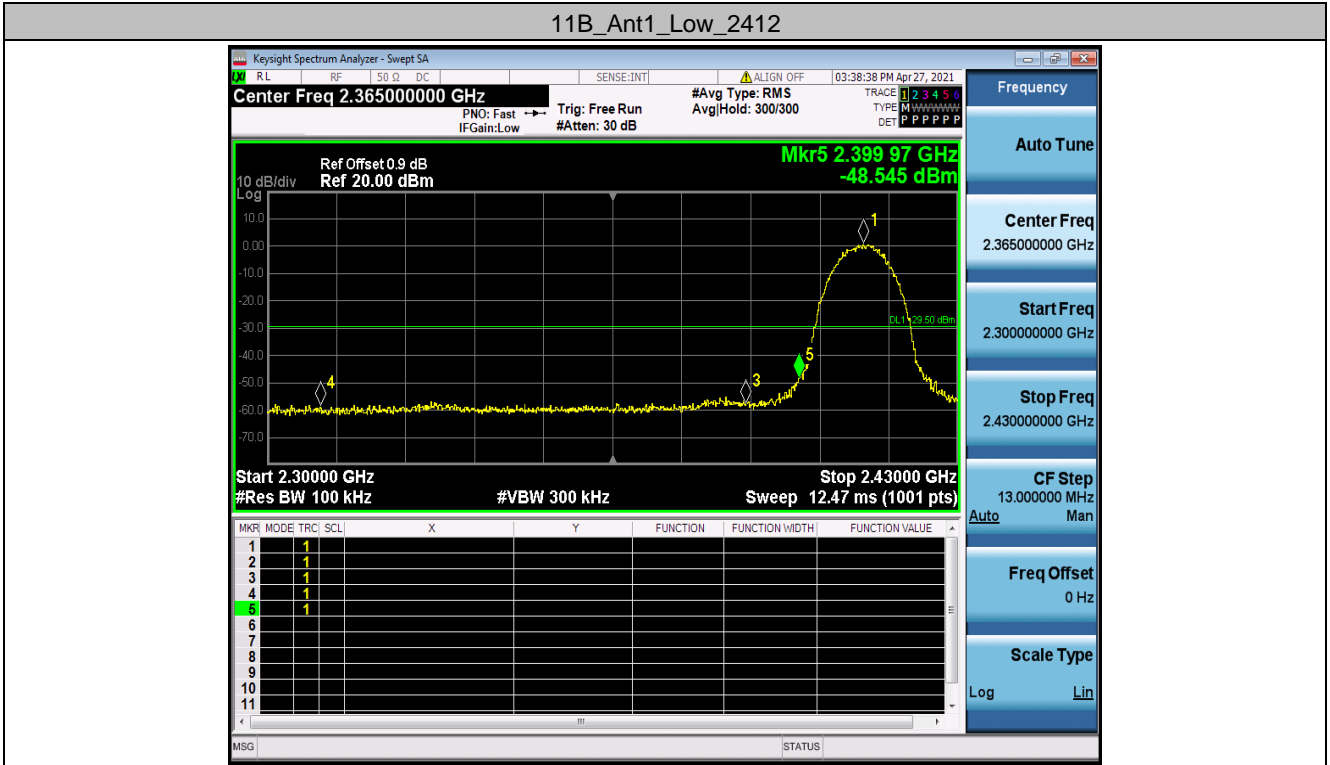
TestMode	Antenna	ChName	Channel	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	0.50	-48.55	<=-29.5	PASS
		High	2462	1.45	-53.99	<=-28.55	PASS
11G	Ant1	Low	2412	-7.11	-48.33	<=-37.11	PASS
		High	2462	-6.15	-55.65	<=-36.15	PASS
11N20SISO	Ant1	Low	2412	-6.93	-47.82	<=-36.93	PASS
		High	2462	-6.06	-55.63	<=-36.06	PASS
11N40SISO	Ant1	Low	2422	-9.51	-45.68	<=-39.51	PASS
		High	2452	-8.33	-55	<=-38.33	PASS



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8.4.2 Test Graphs

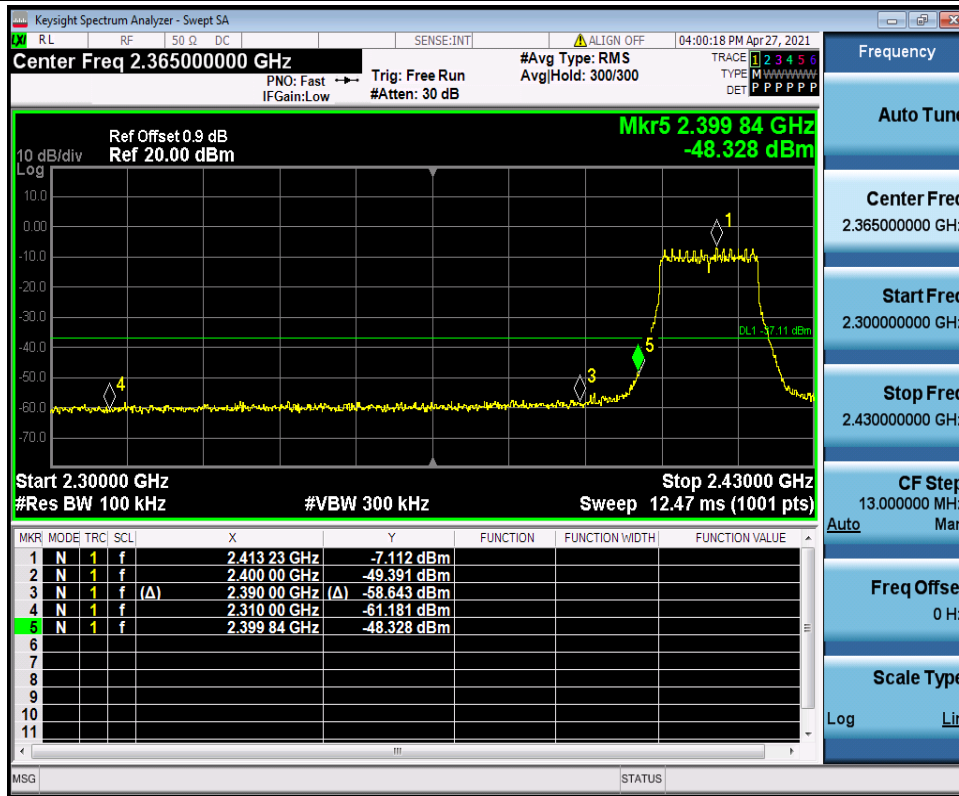


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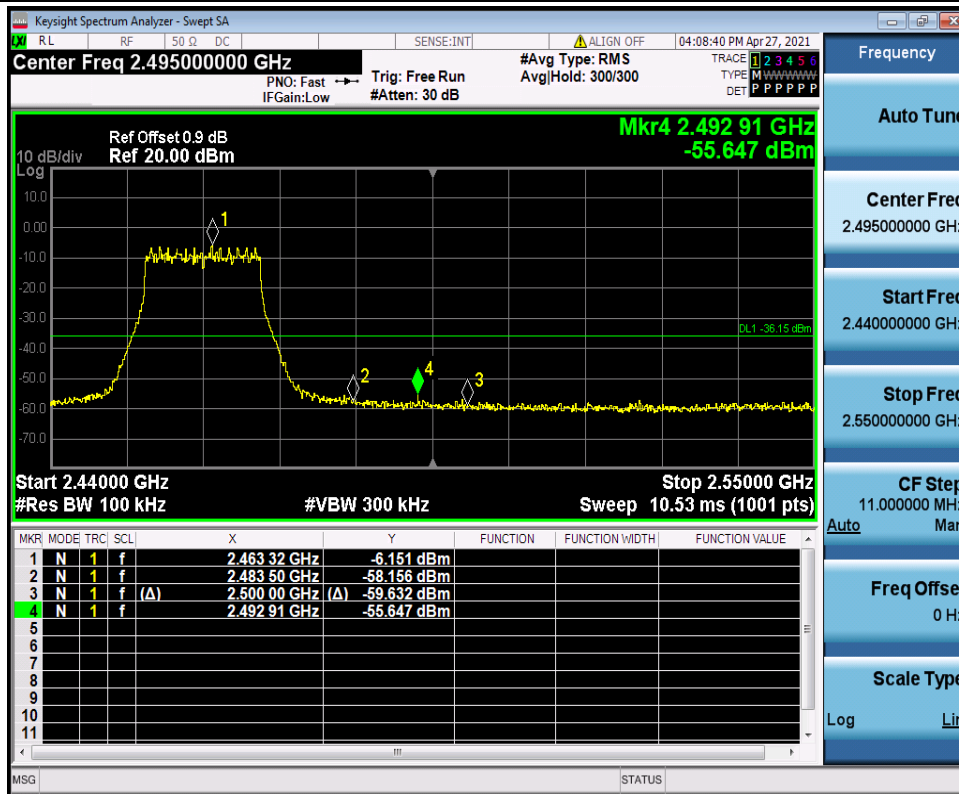
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11G_Ant1_Low_2412



11G_Ant1_High_2462

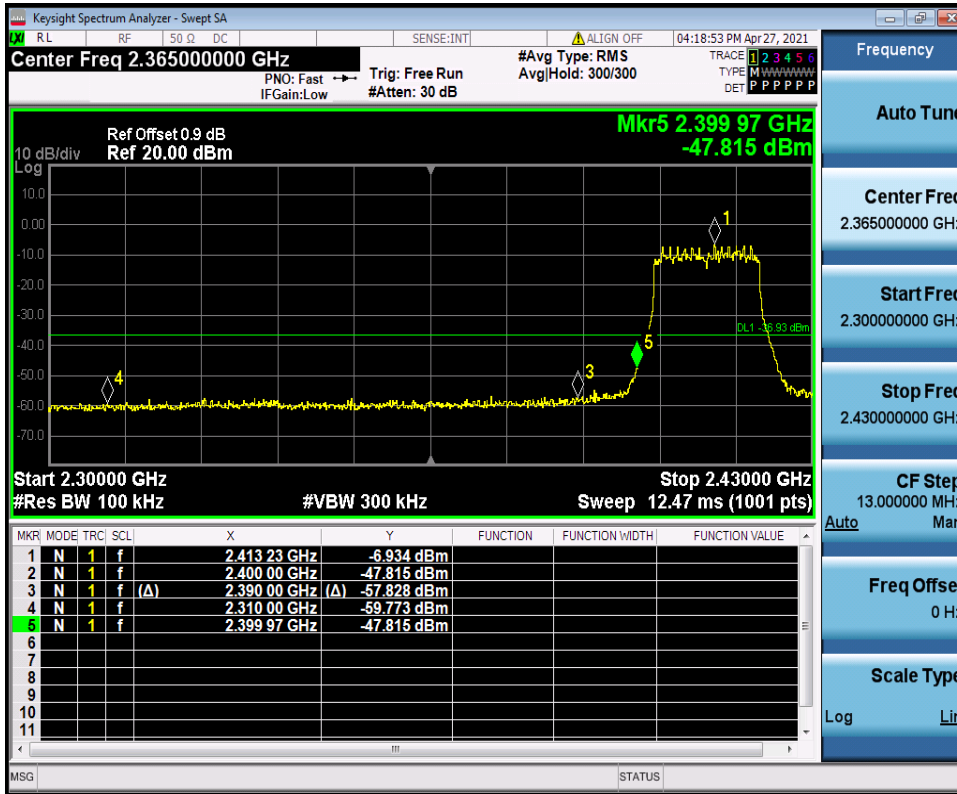


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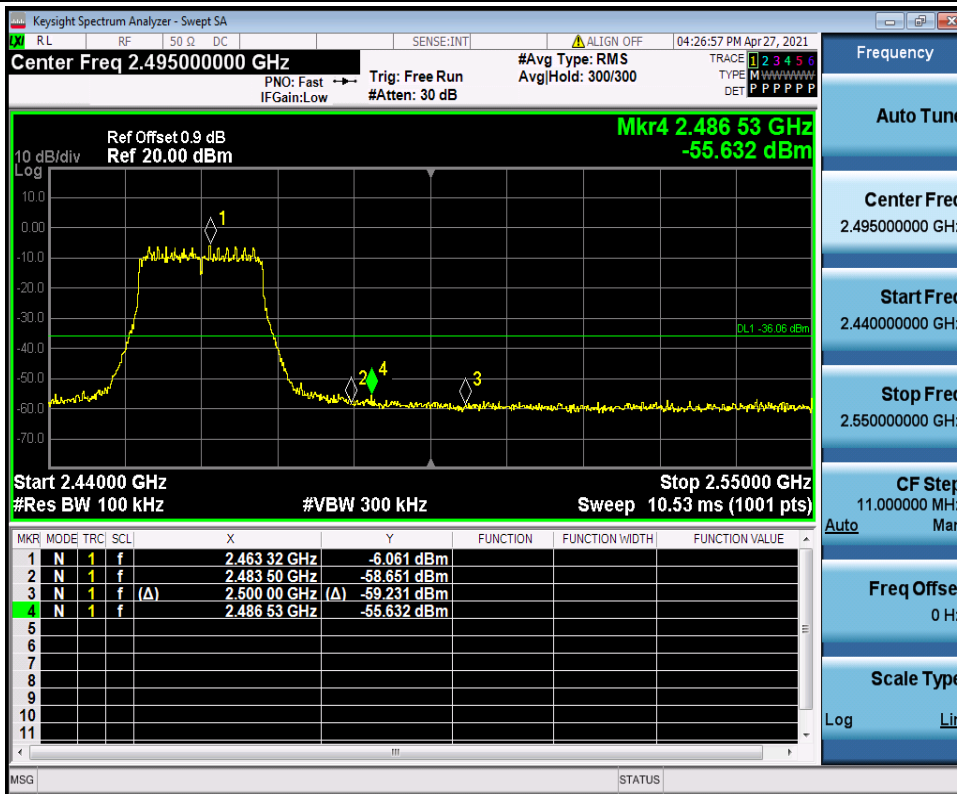
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11N20SISO_Ant1_Low_2412

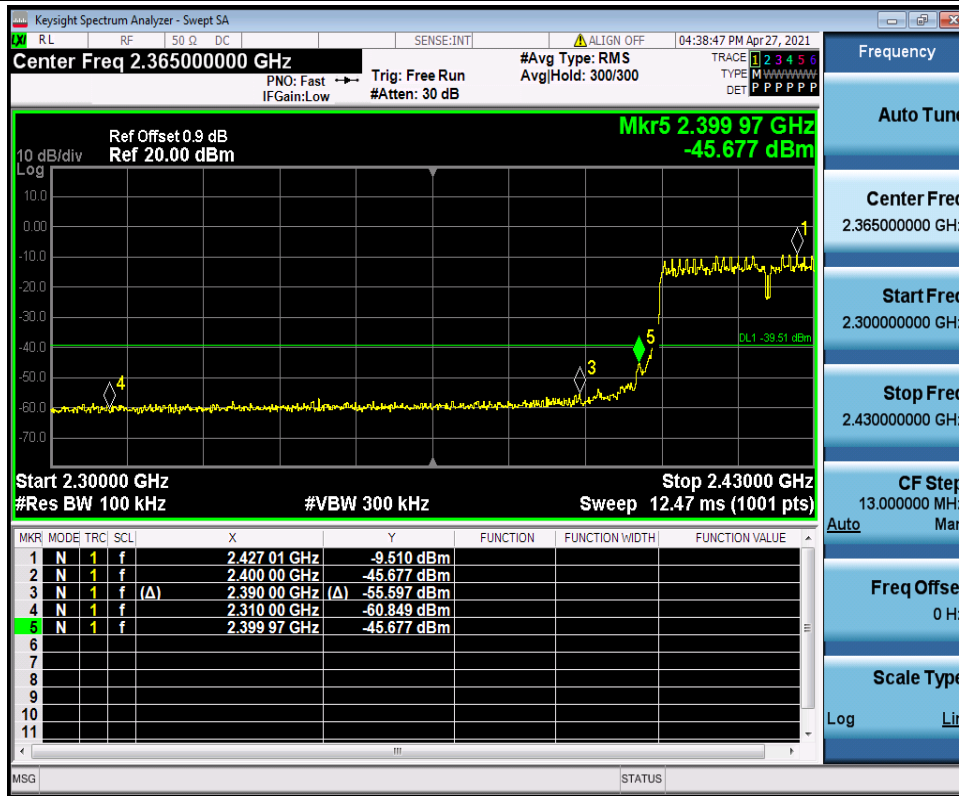


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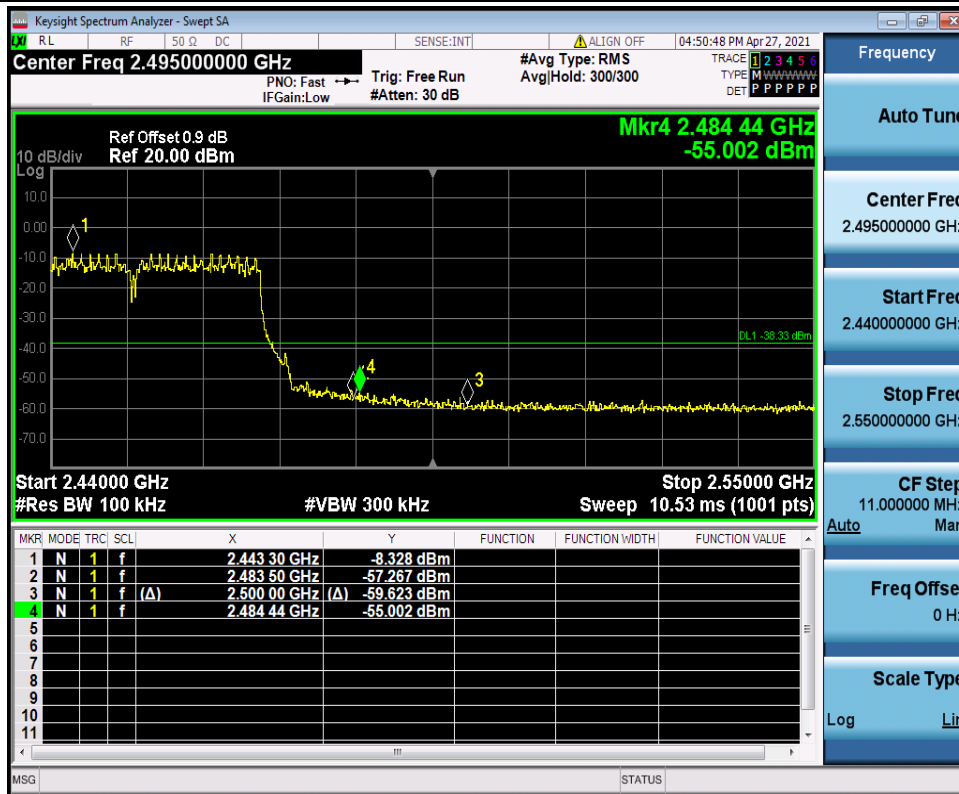


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11N40SISO_Ant1_Low_2422



11N40SISO_Ant1_High_2452



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8.5 Appendix E: Conducted Spurious Emission

8.5.1 Test Result

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	0.19	0.19	---	PASS
			30~1000	30~1000	-66.033	<=-19.81	PASS
			1000~26500	1000~26500	-52.88	<=-19.81	PASS
		2442	Reference	0.83	0.83	---	PASS
			30~1000	30~1000	-70.405	<=-19.168	PASS
			1000~26500	1000~26500	-59.621	<=-19.168	PASS
		2462	Reference	0.64	0.64	---	PASS
			30~1000	30~1000	-66.974	<=-19.361	PASS
			1000~26500	1000~26500	-53.254	<=-19.361	PASS
11G	Ant1	2412	Reference	-7.07	-7.07	---	PASS
			30~1000	30~1000	-65.183	<=-27.068	PASS
			1000~26500	1000~26500	-60.896	<=-27.068	PASS
		2442	Reference	-6.20	-6.20	---	PASS
			30~1000	30~1000	-64.995	<=-26.196	PASS
			1000~26500	1000~26500	-60.117	<=-26.196	PASS
		2462	Reference	-6.21	-6.21	---	PASS
			30~1000	30~1000	-66.111	<=-26.211	PASS
			1000~26500	1000~26500	-60.006	<=-26.211	PASS
11N20SISO	Ant1	2412	Reference	-6.96	-6.96	---	PASS
			30~1000	30~1000	-65.163	<=-26.964	PASS
			1000~26500	1000~26500	-60.617	<=-26.964	PASS
		2442	Reference	-5.98	-5.98	---	PASS
			30~1000	30~1000	-65.474	<=-25.982	PASS
			1000~26500	1000~26500	-59.096	<=-25.982	PASS
		2462	Reference	-6.03	-6.03	---	PASS
			30~1000	30~1000	-65.602	<=-26.03	PASS
			1000~26500	1000~26500	-59.854	<=-26.03	PASS
11N40SISO	Ant1	2422	Reference	-9.59	-9.59	---	PASS
			30~1000	30~1000	-66.342	<=-29.592	PASS
			1000~26500	1000~26500	-60.206	<=-29.592	PASS
		2442	Reference	-8.91	-8.91	---	PASS
			30~1000	30~1000	-65.691	<=-28.907	PASS
			1000~26500	1000~26500	-59.336	<=-28.907	PASS
		2452	Reference	-8.79	-8.79	---	PASS
			30~1000	30~1000	-65.101	<=-28.792	PASS
			1000~26500	1000~26500	-60.32	<=-28.792	PASS

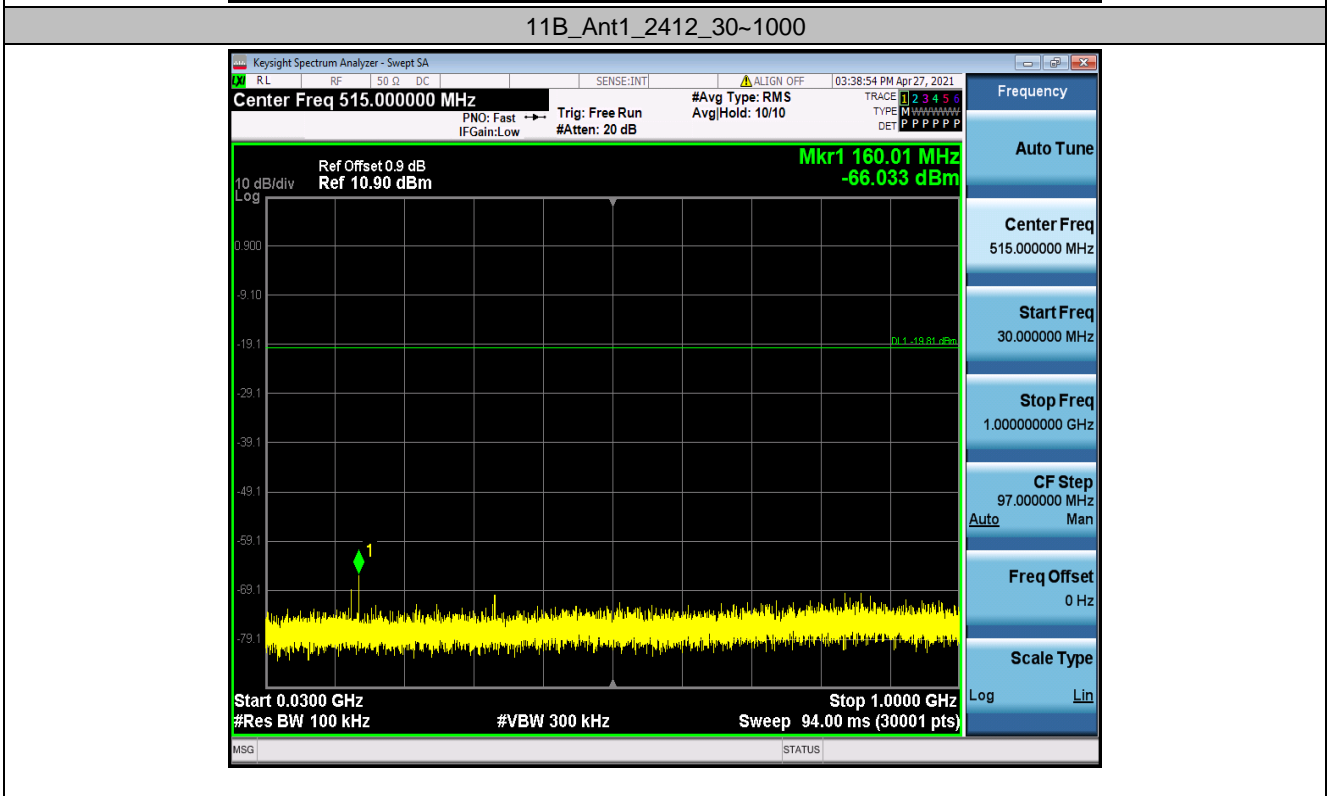
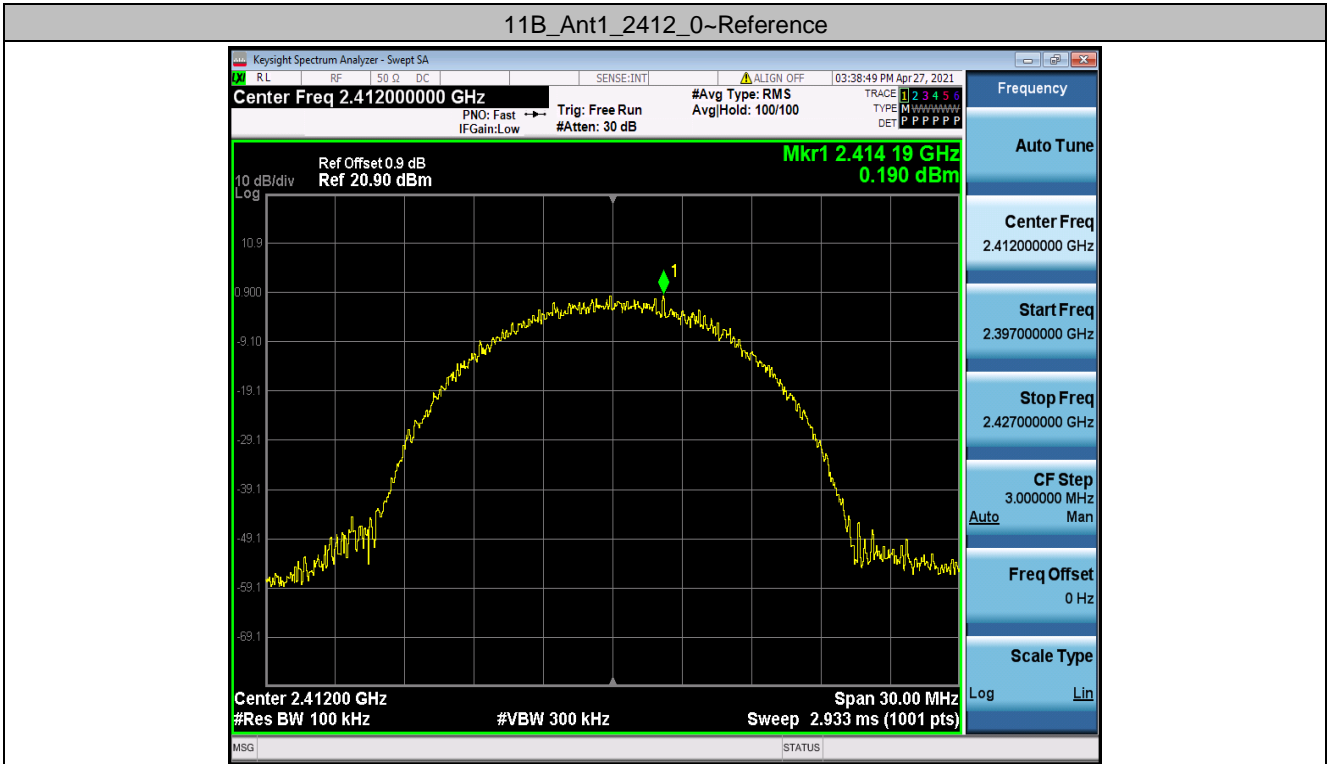


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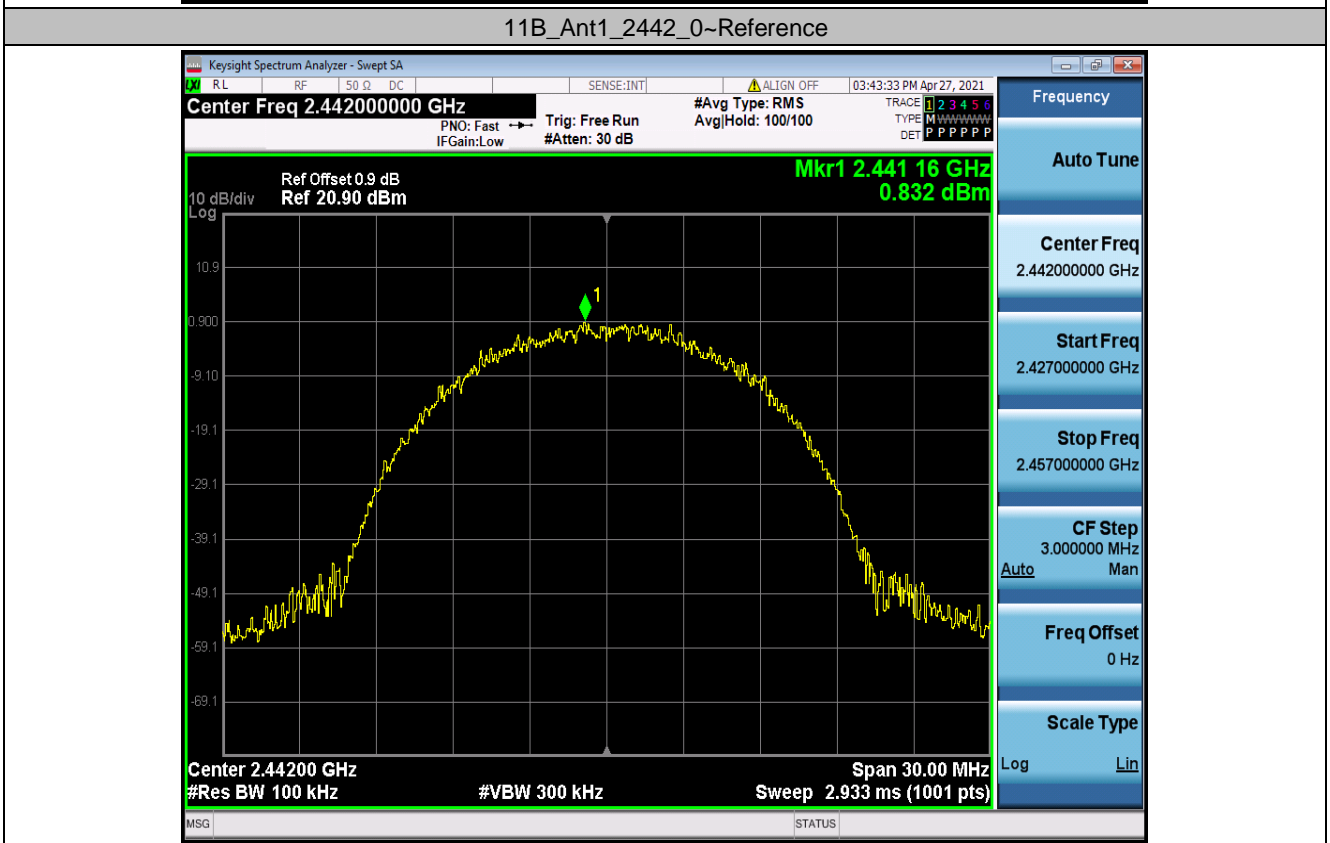
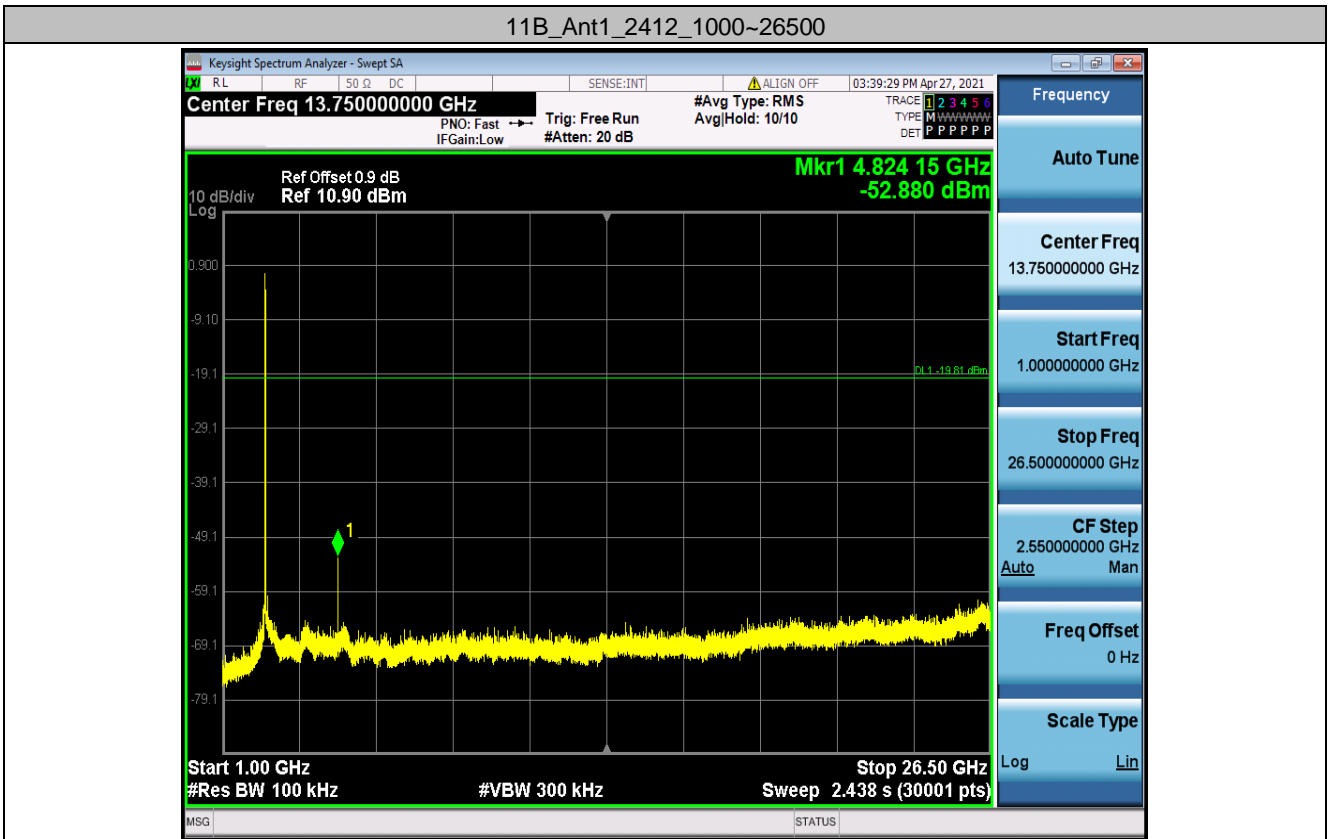
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8.5.2 Test Graphs



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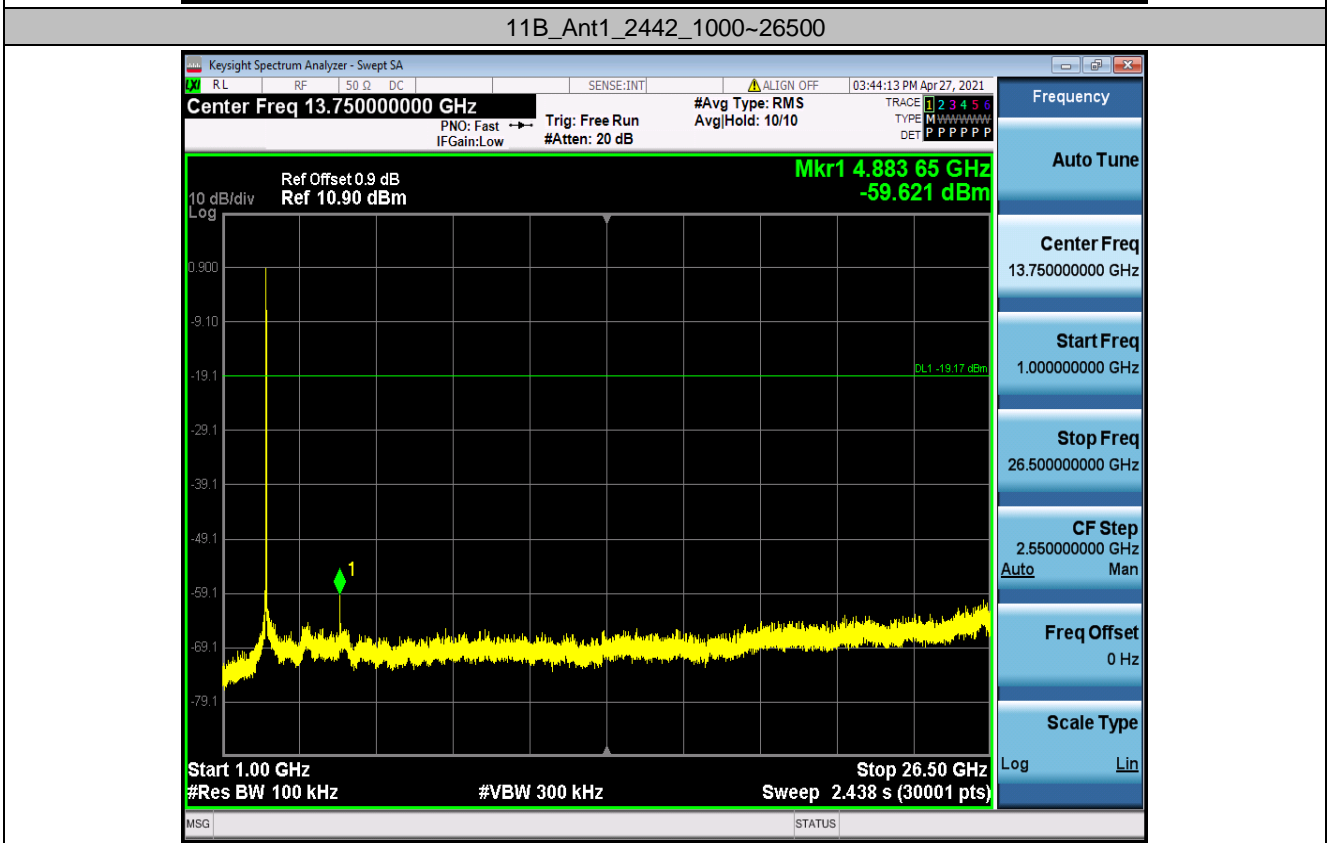
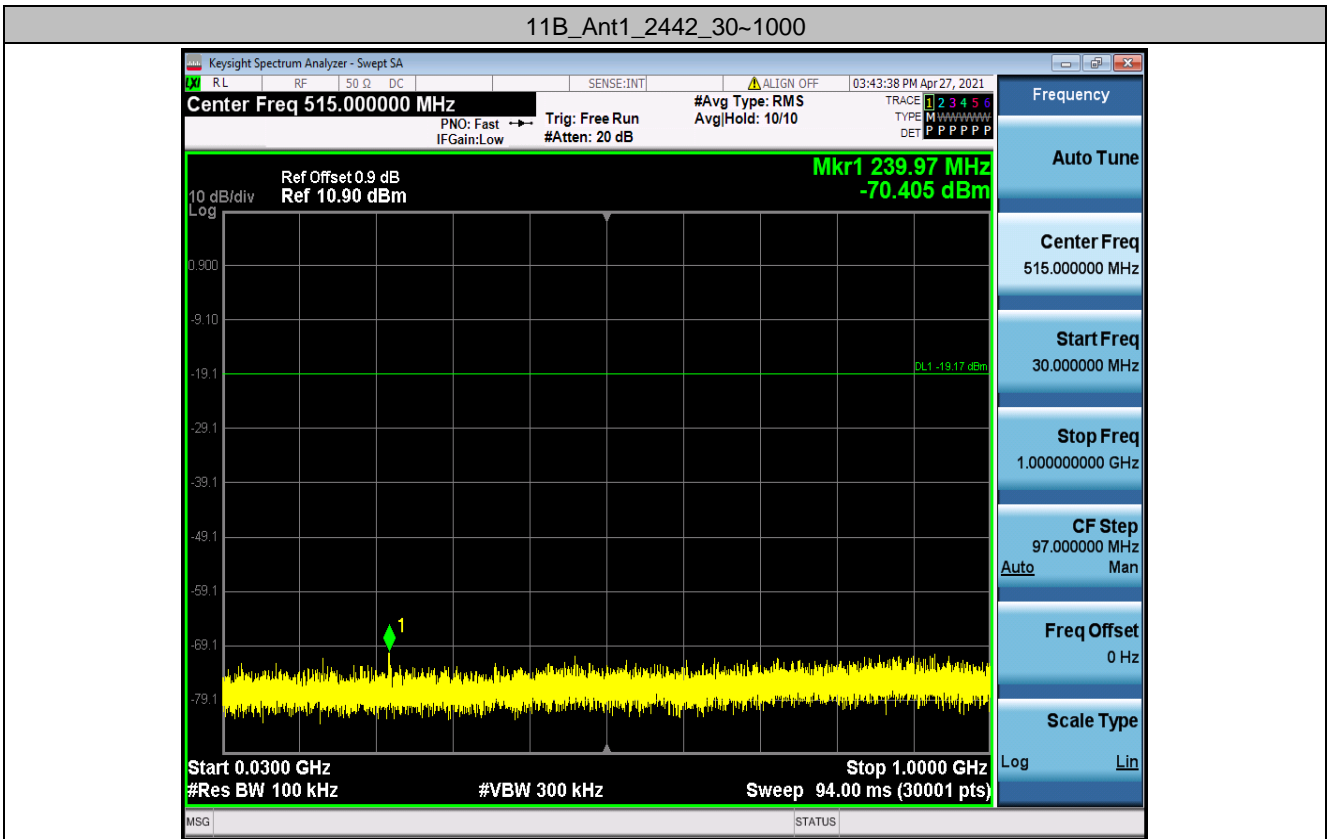
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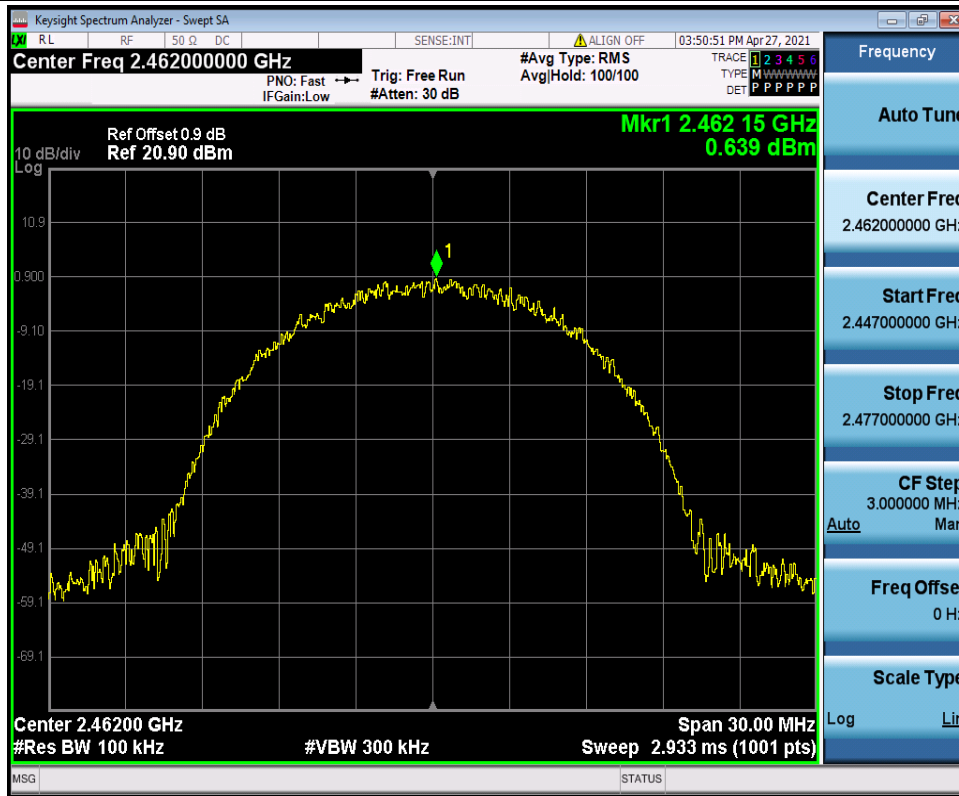
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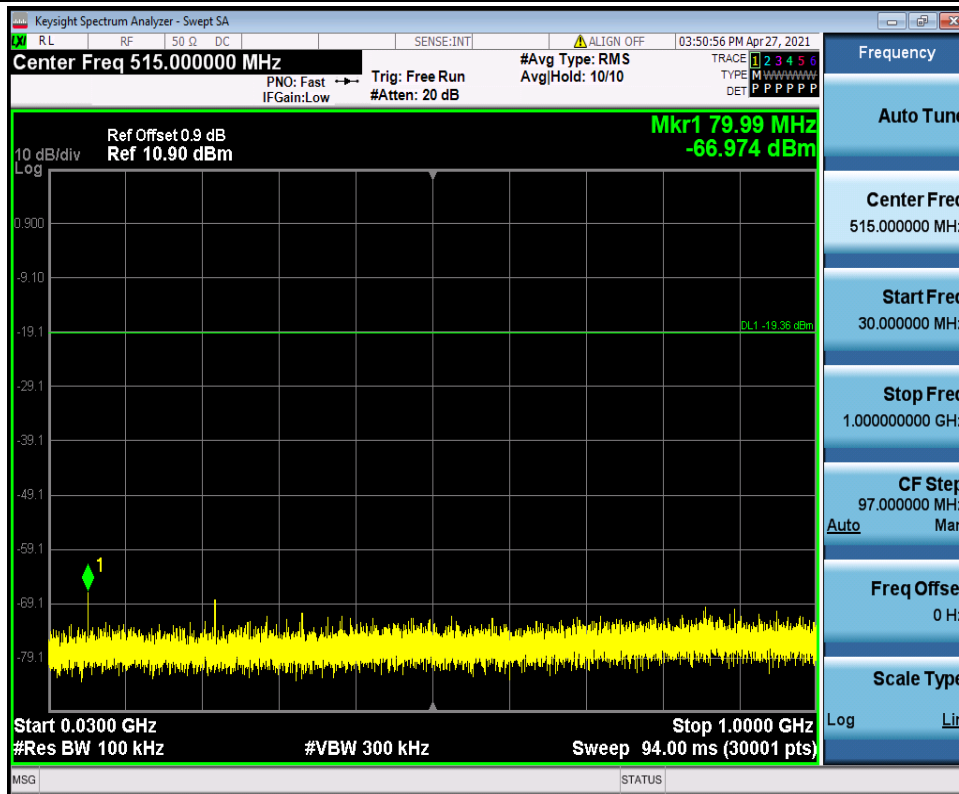
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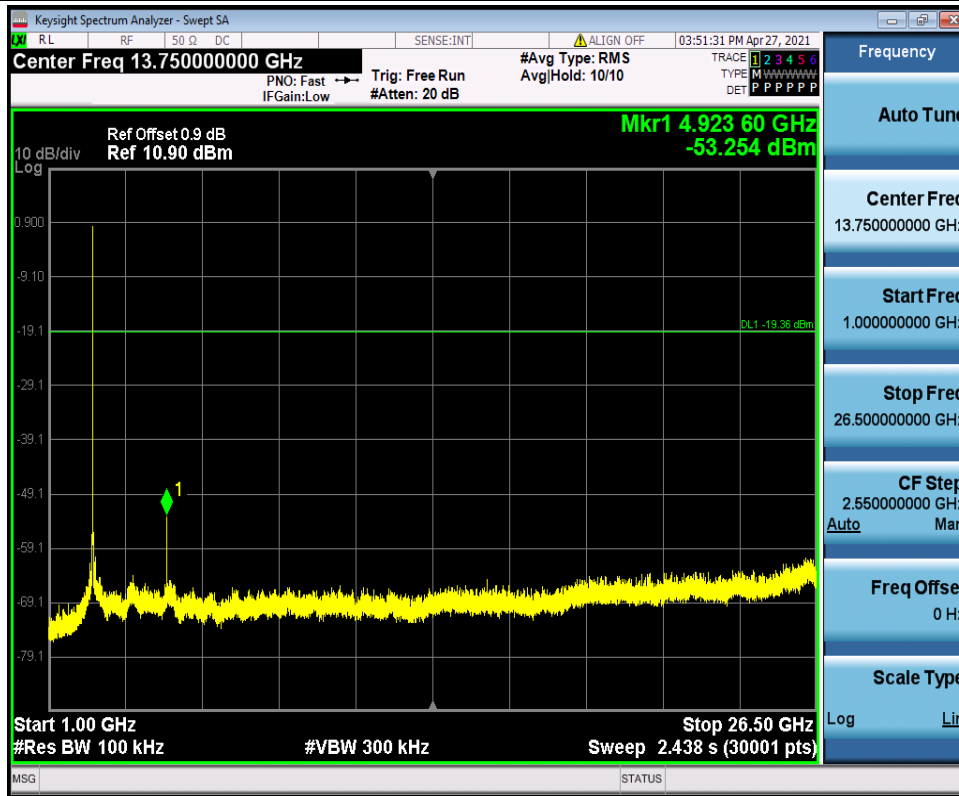
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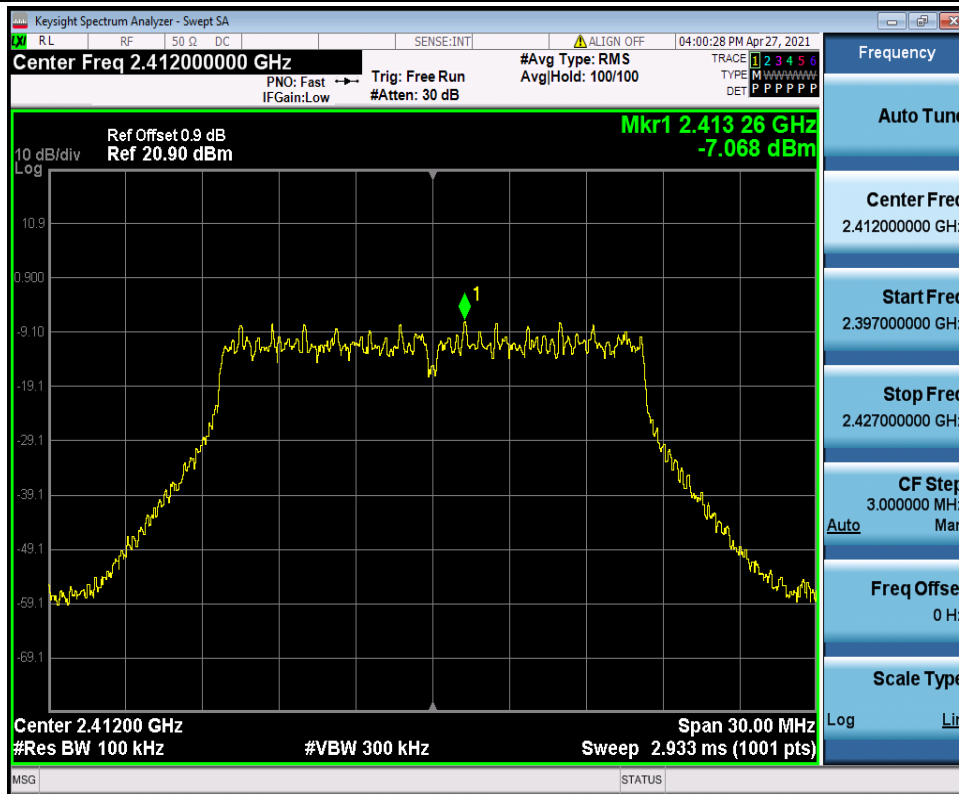
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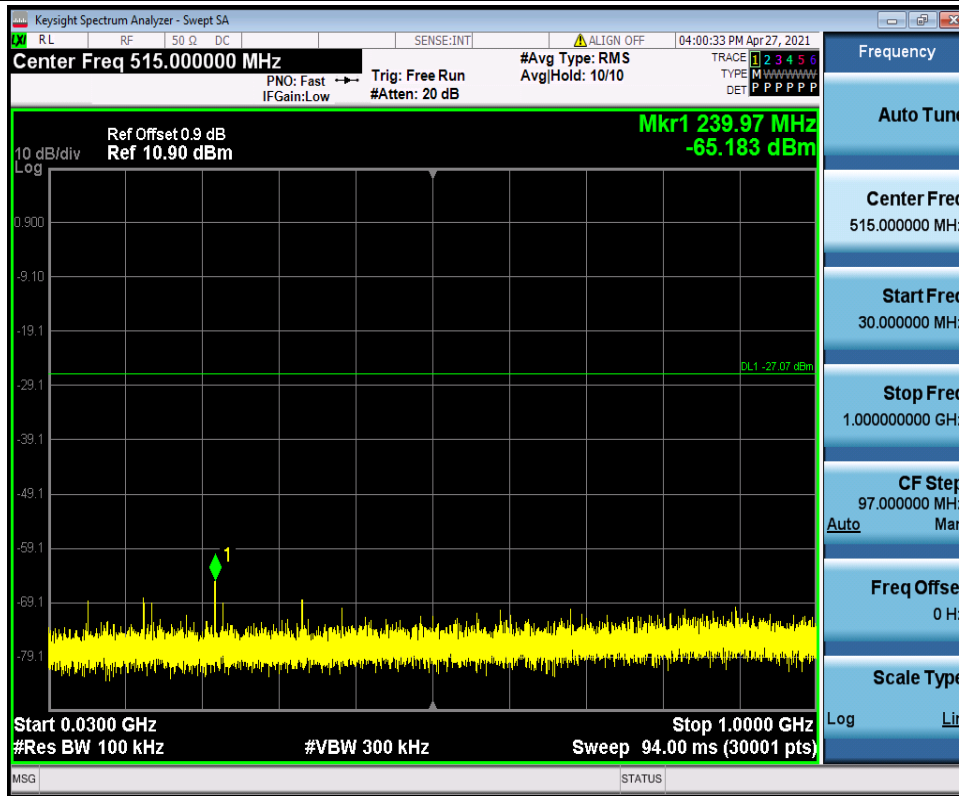


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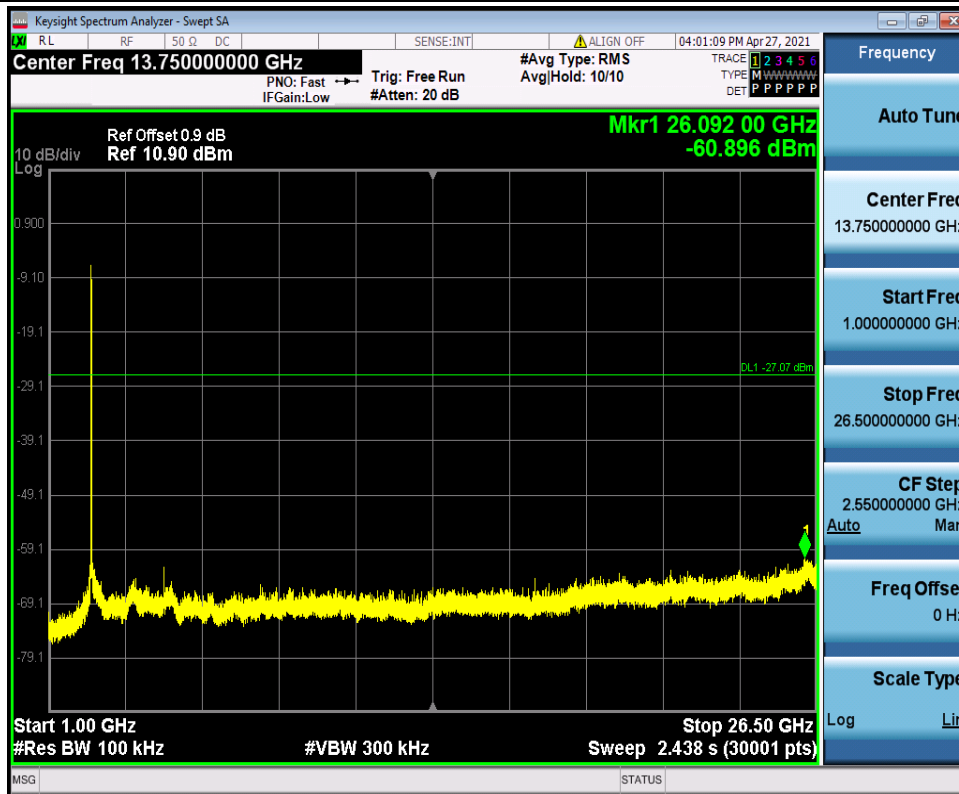


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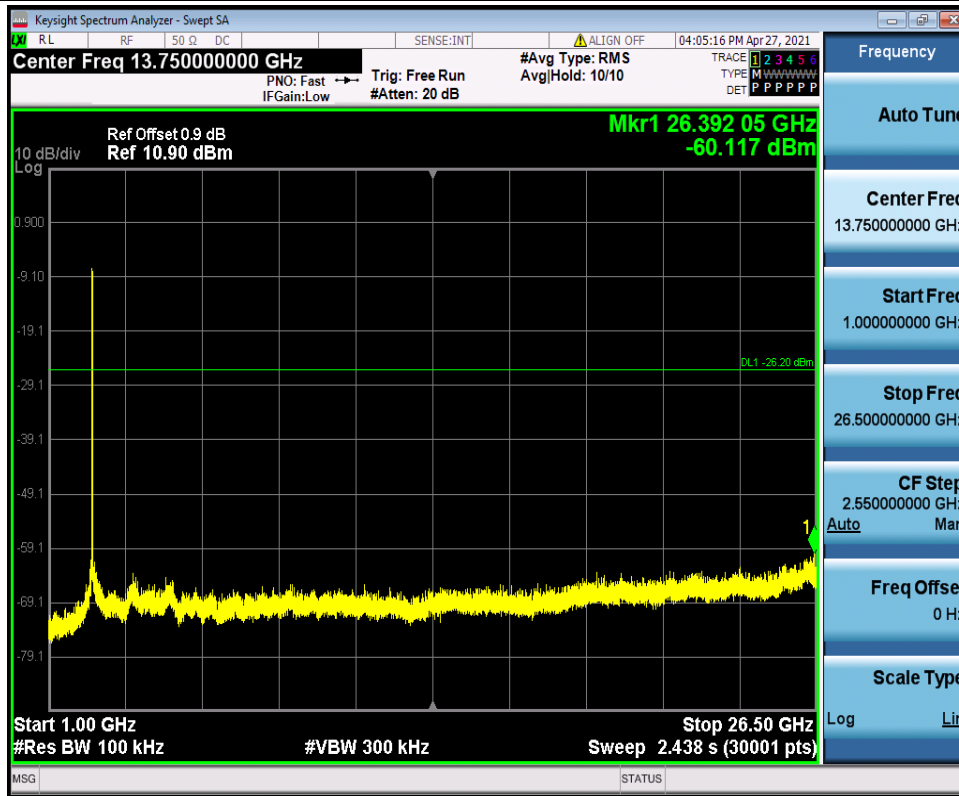
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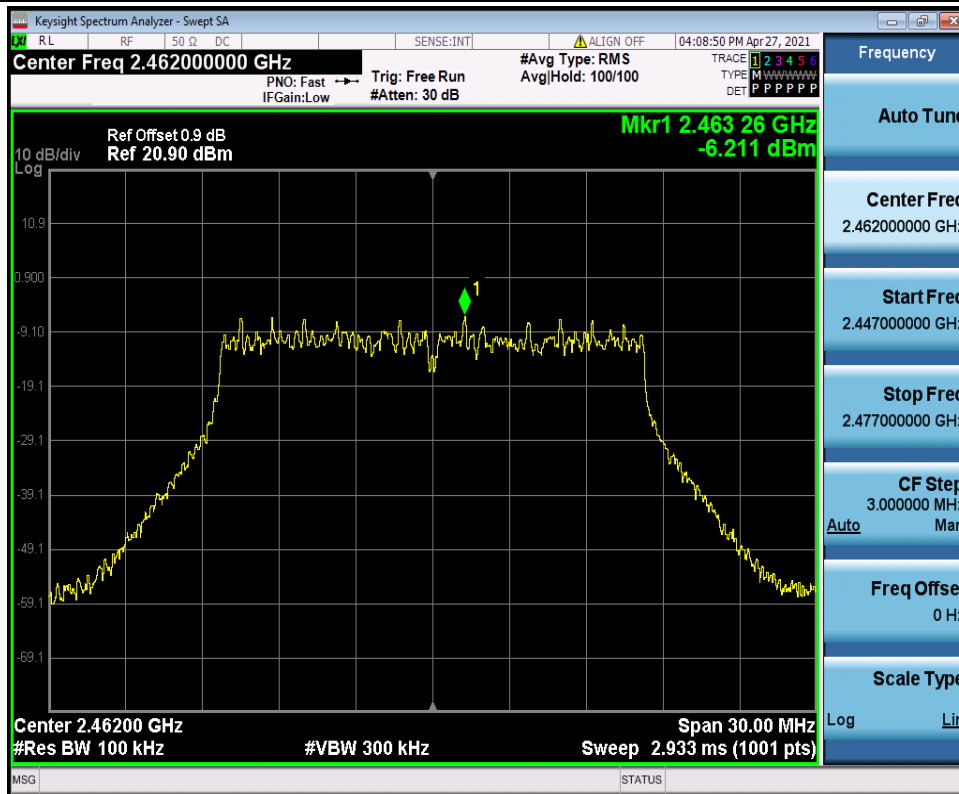
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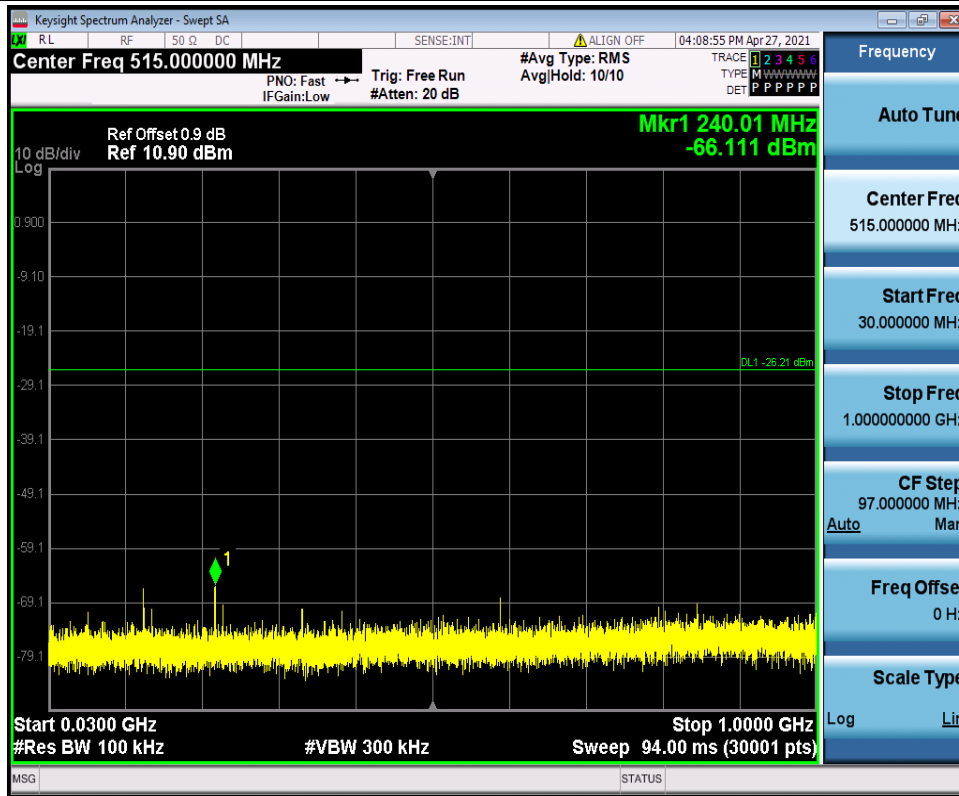
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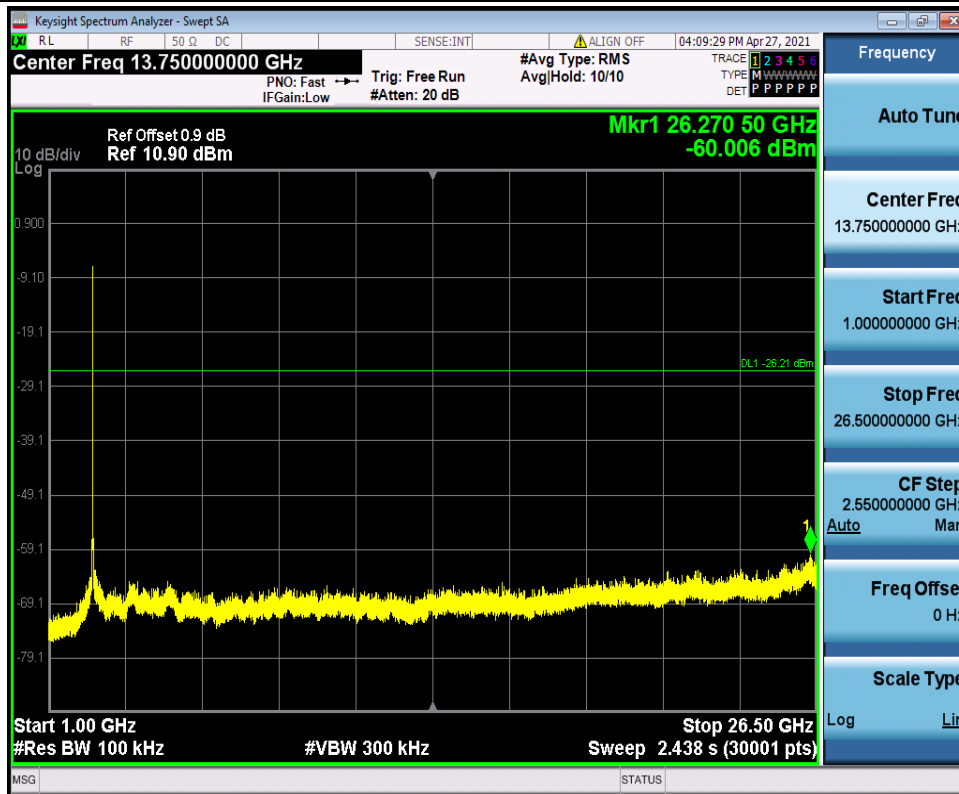
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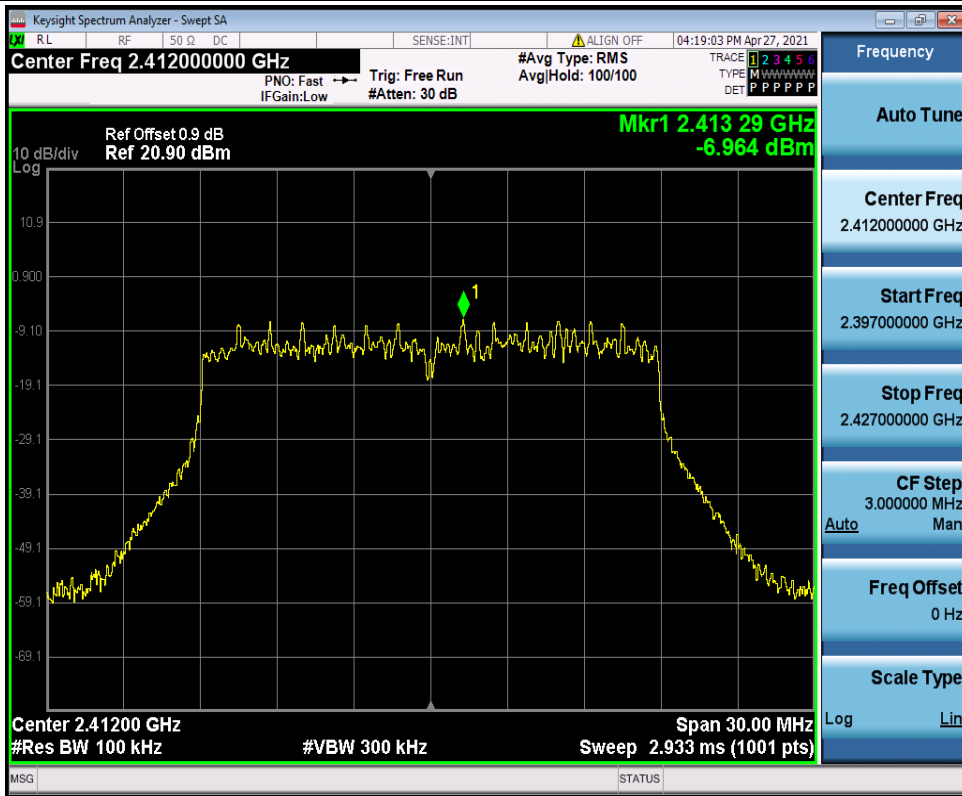
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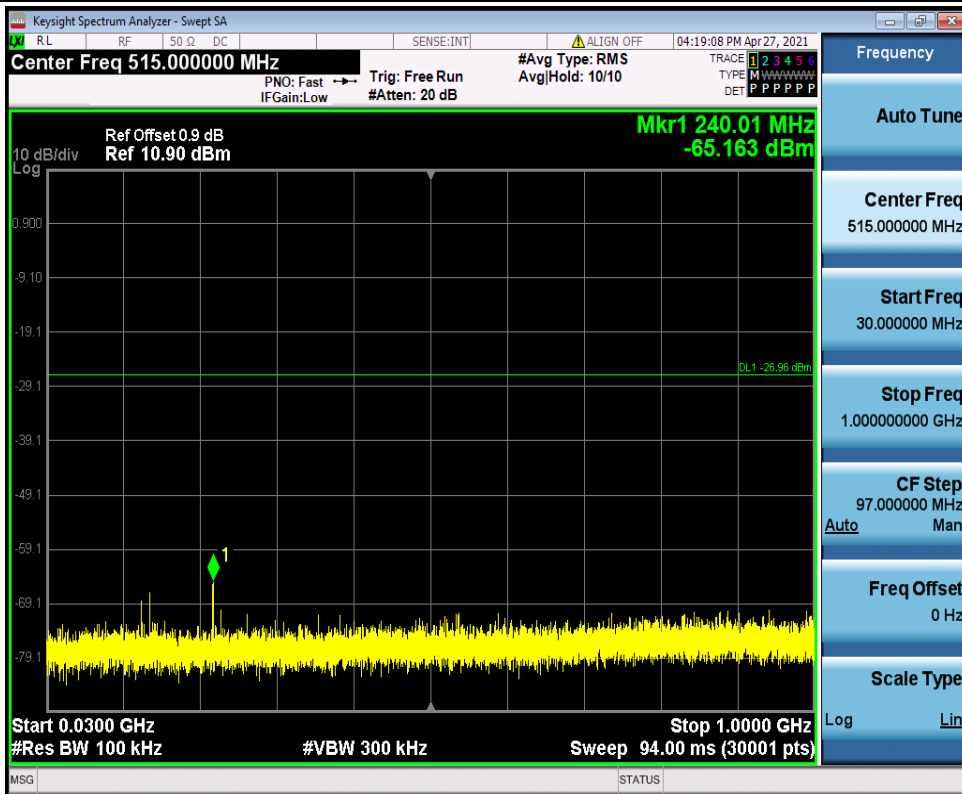
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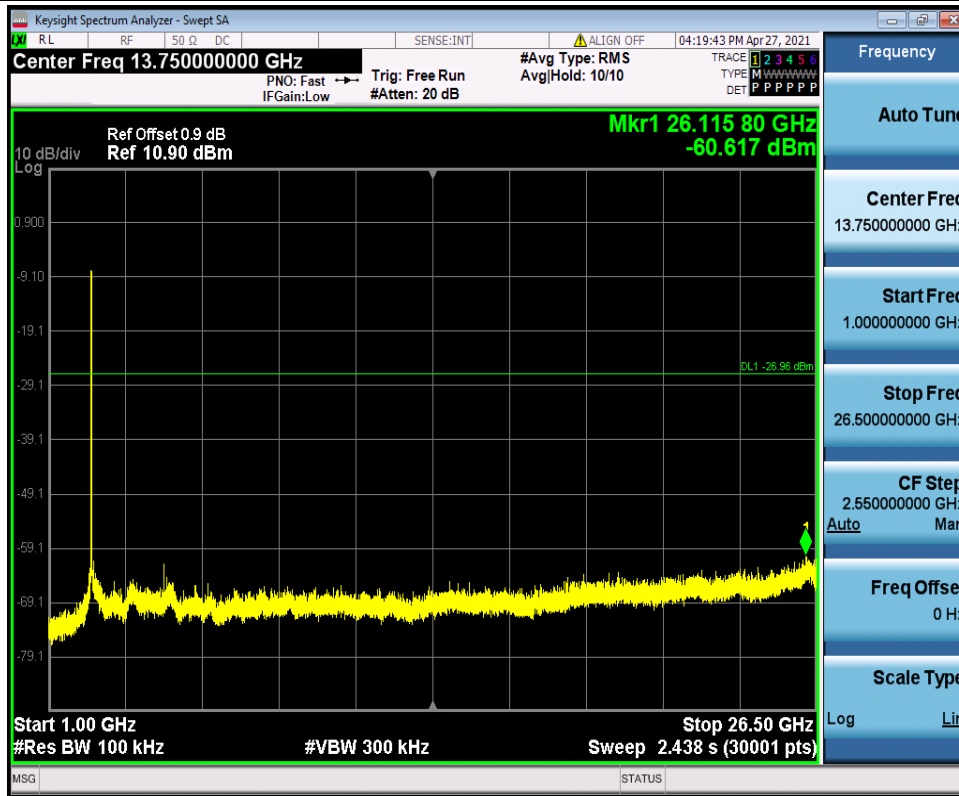
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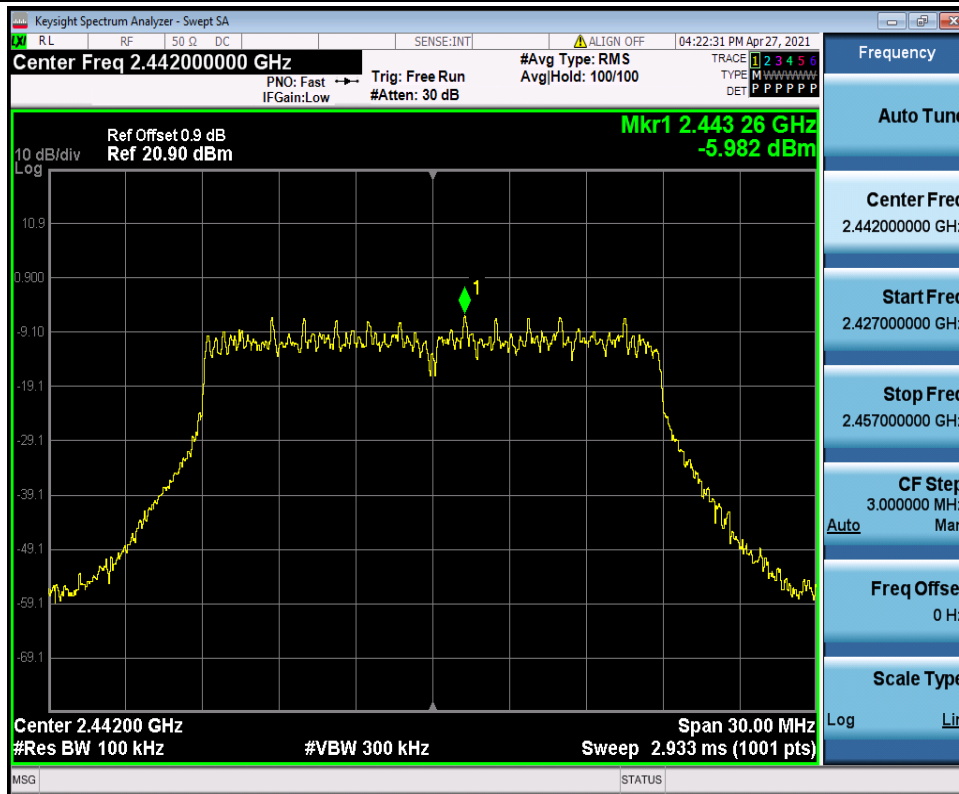
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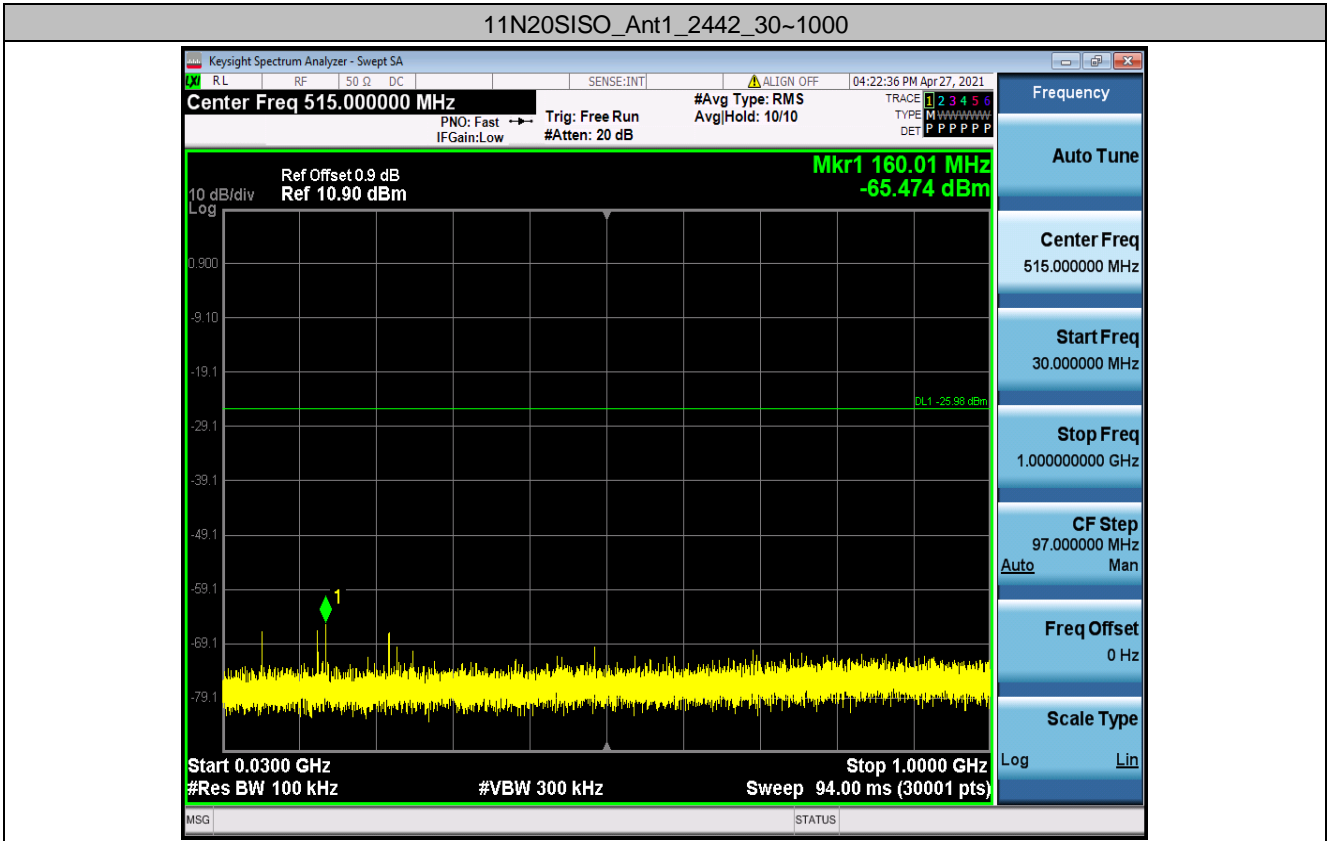
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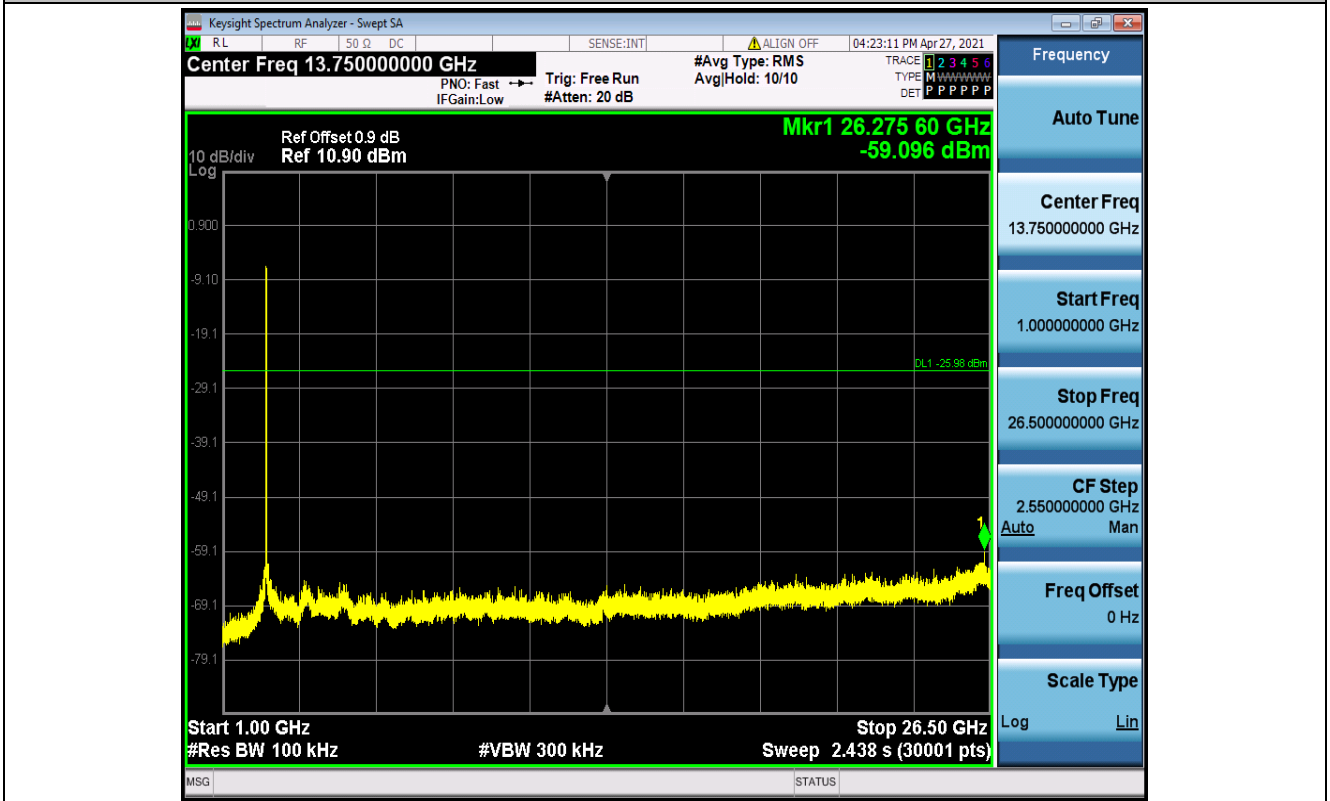
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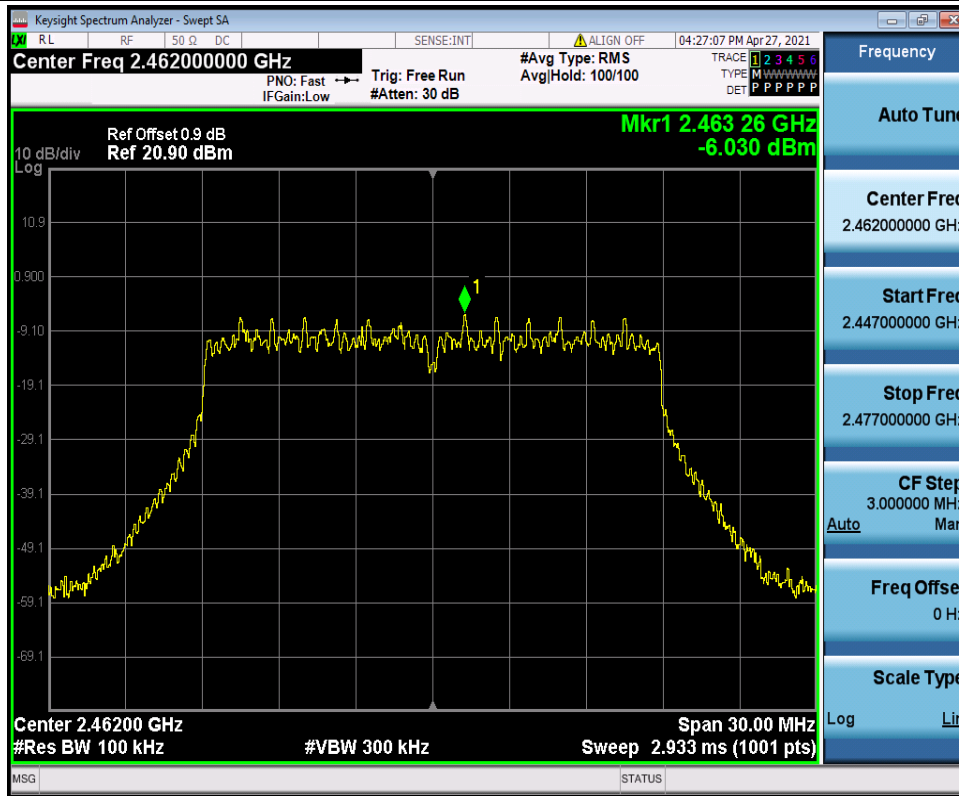
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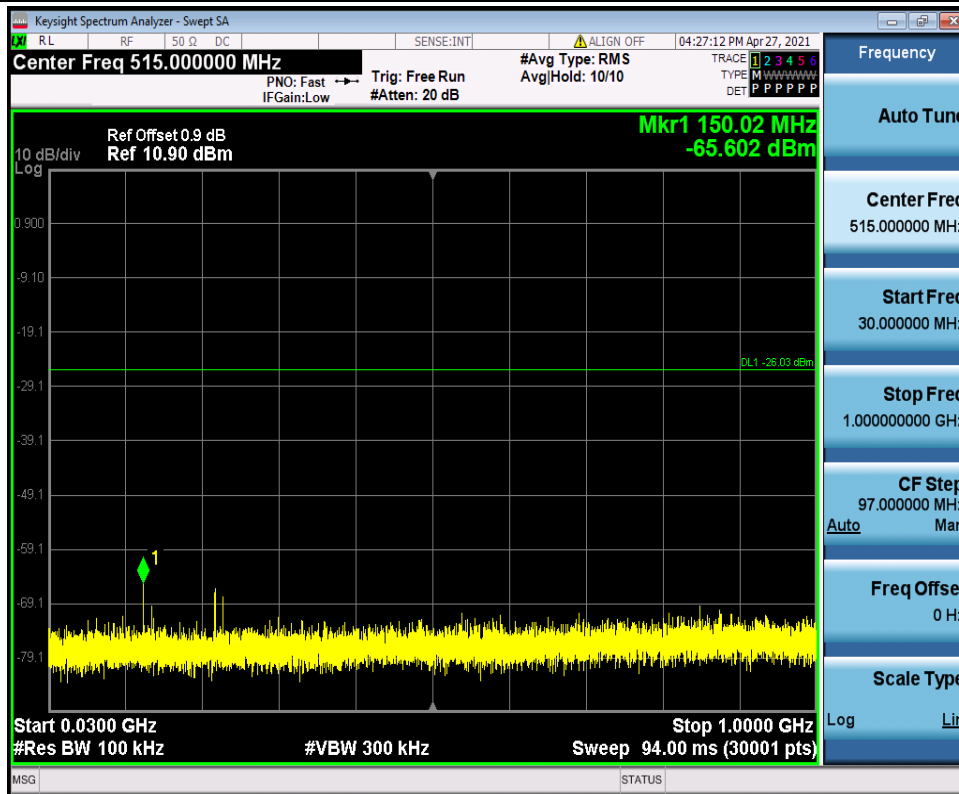
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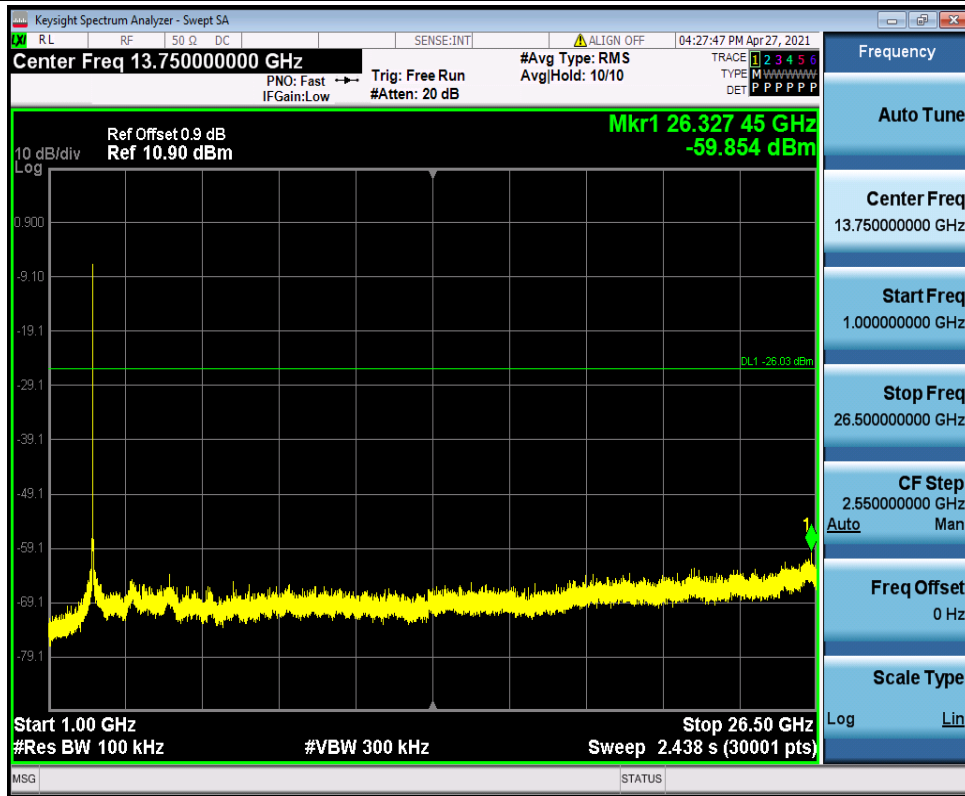


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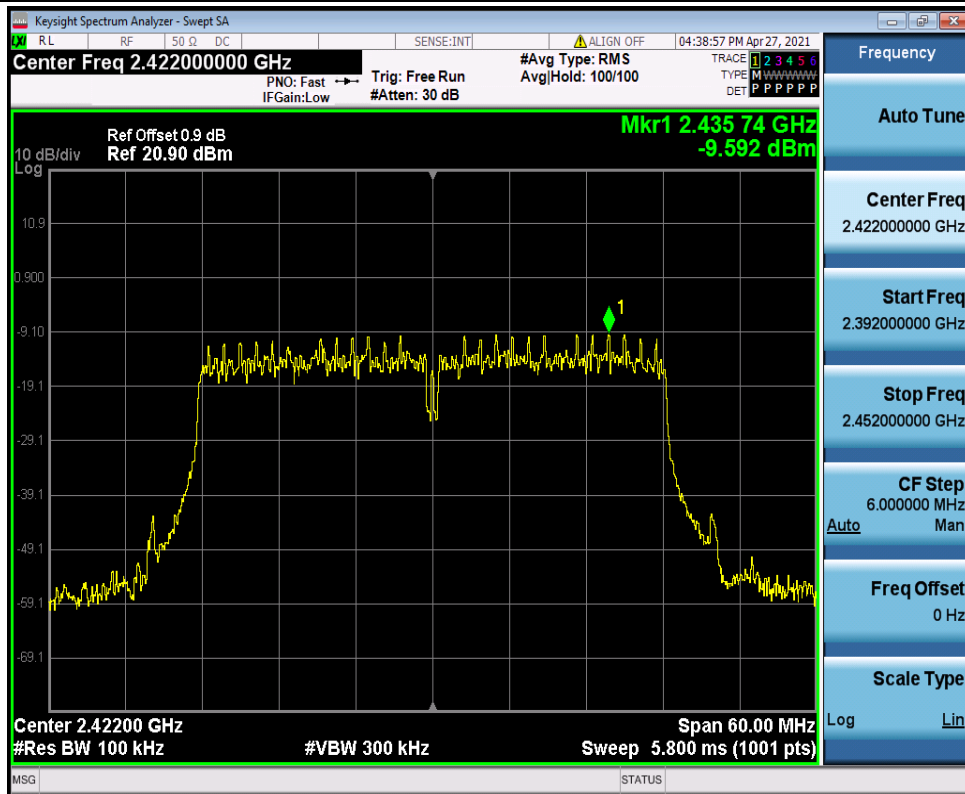


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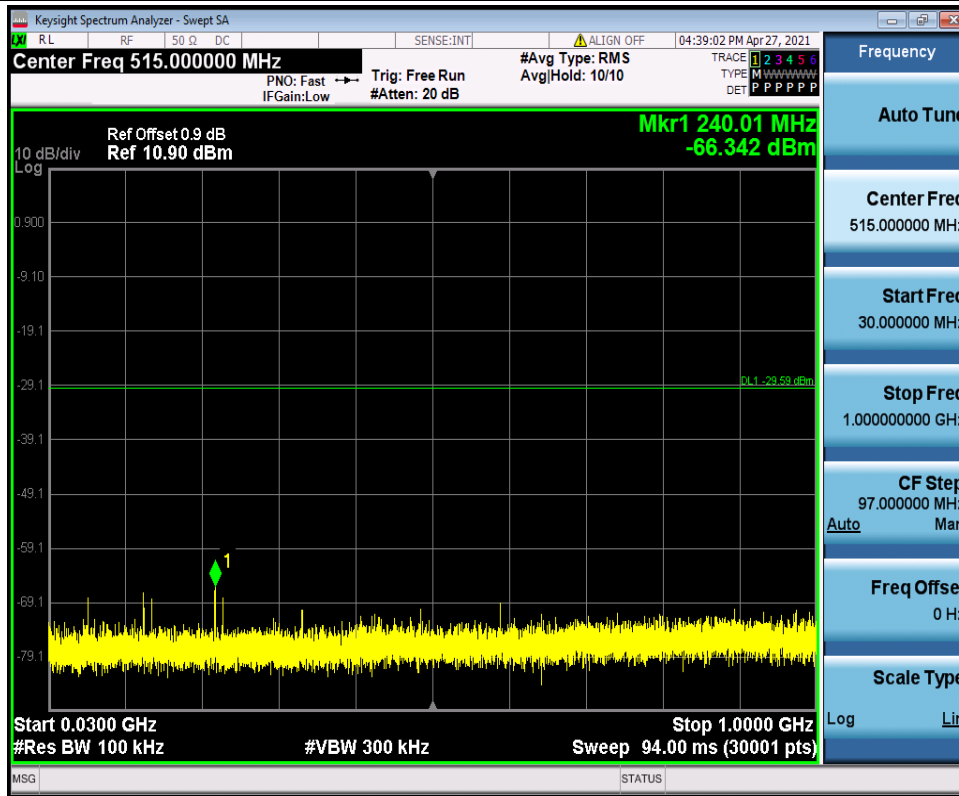


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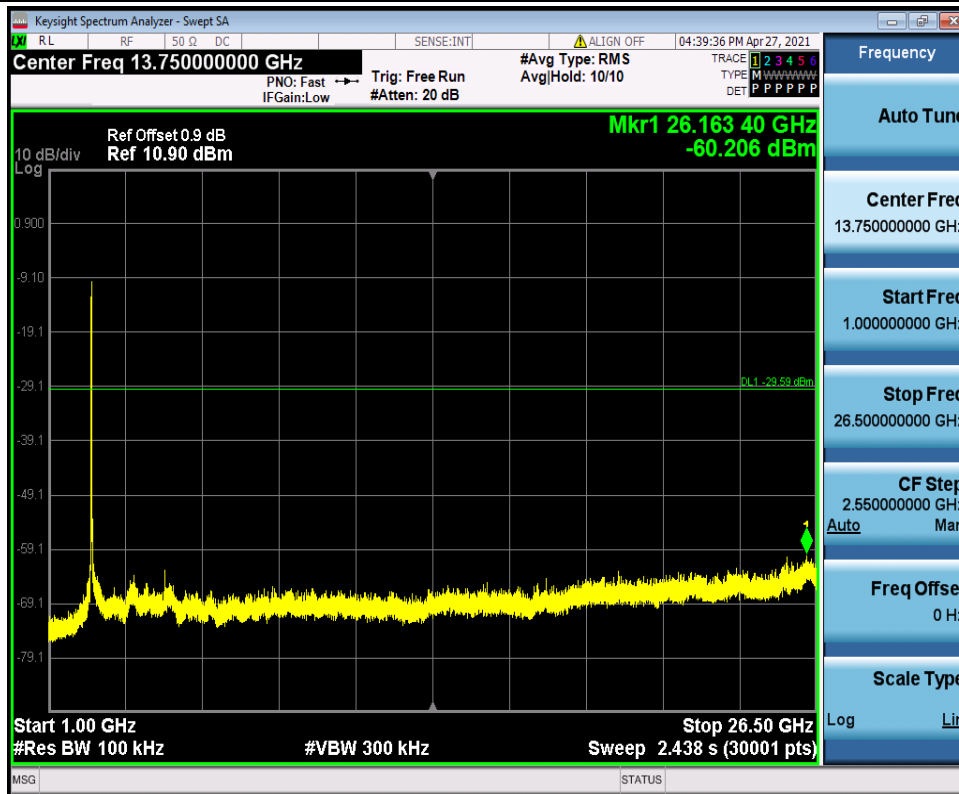
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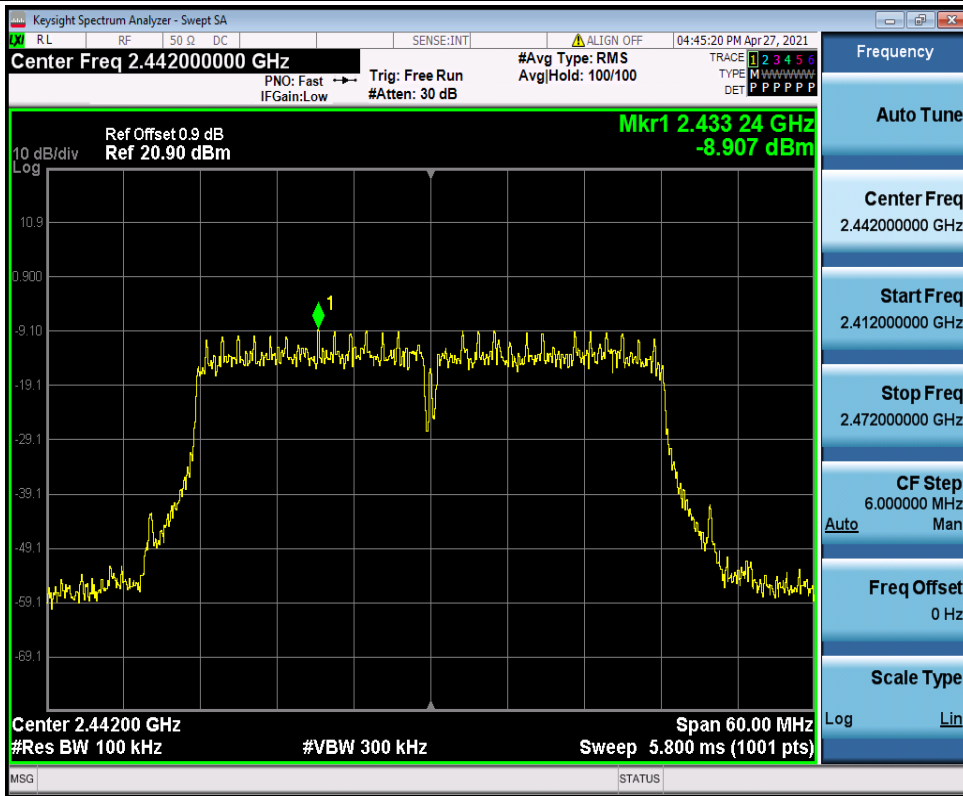


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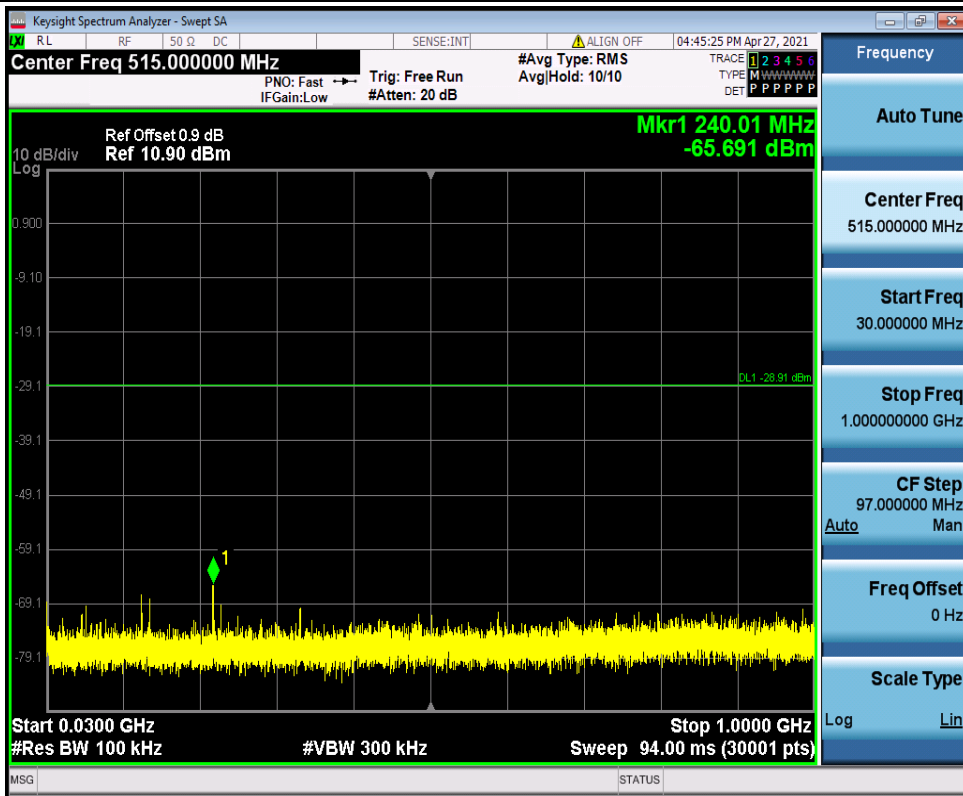


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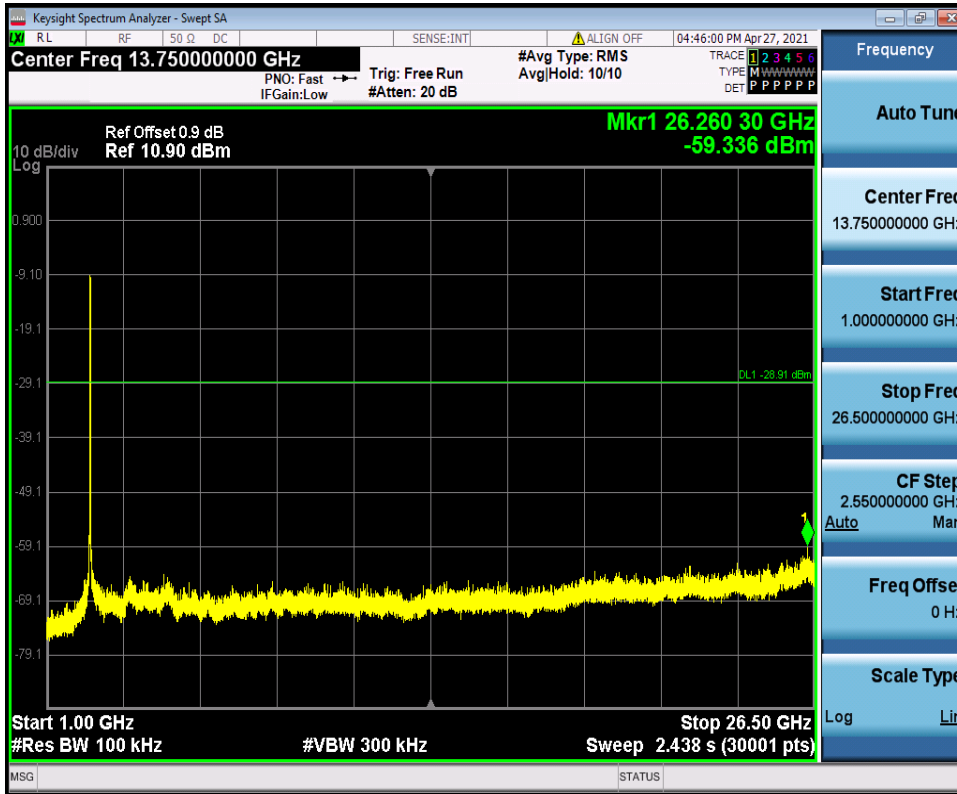


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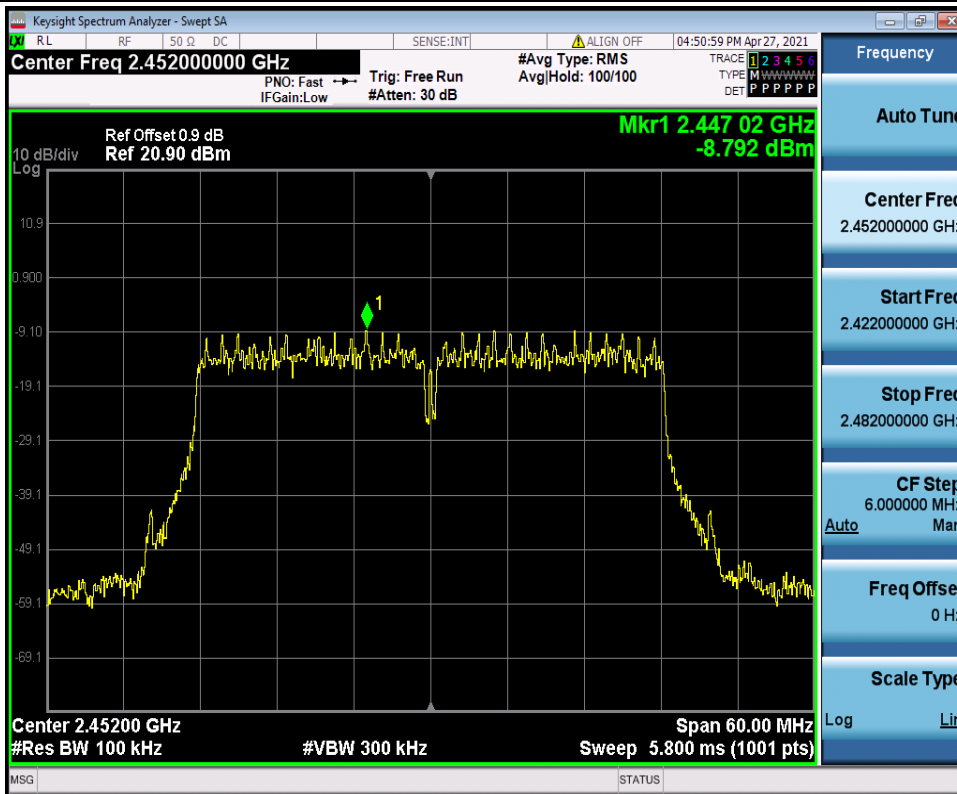


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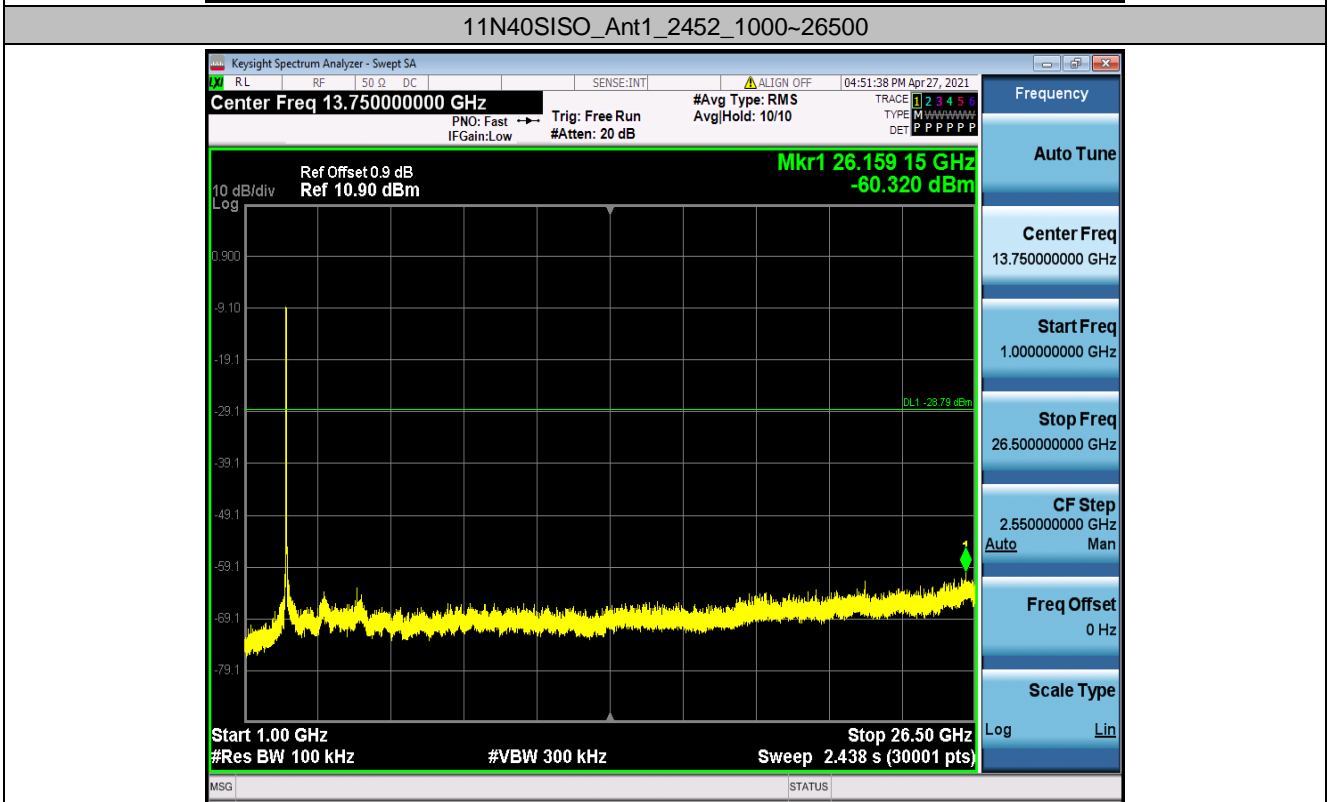
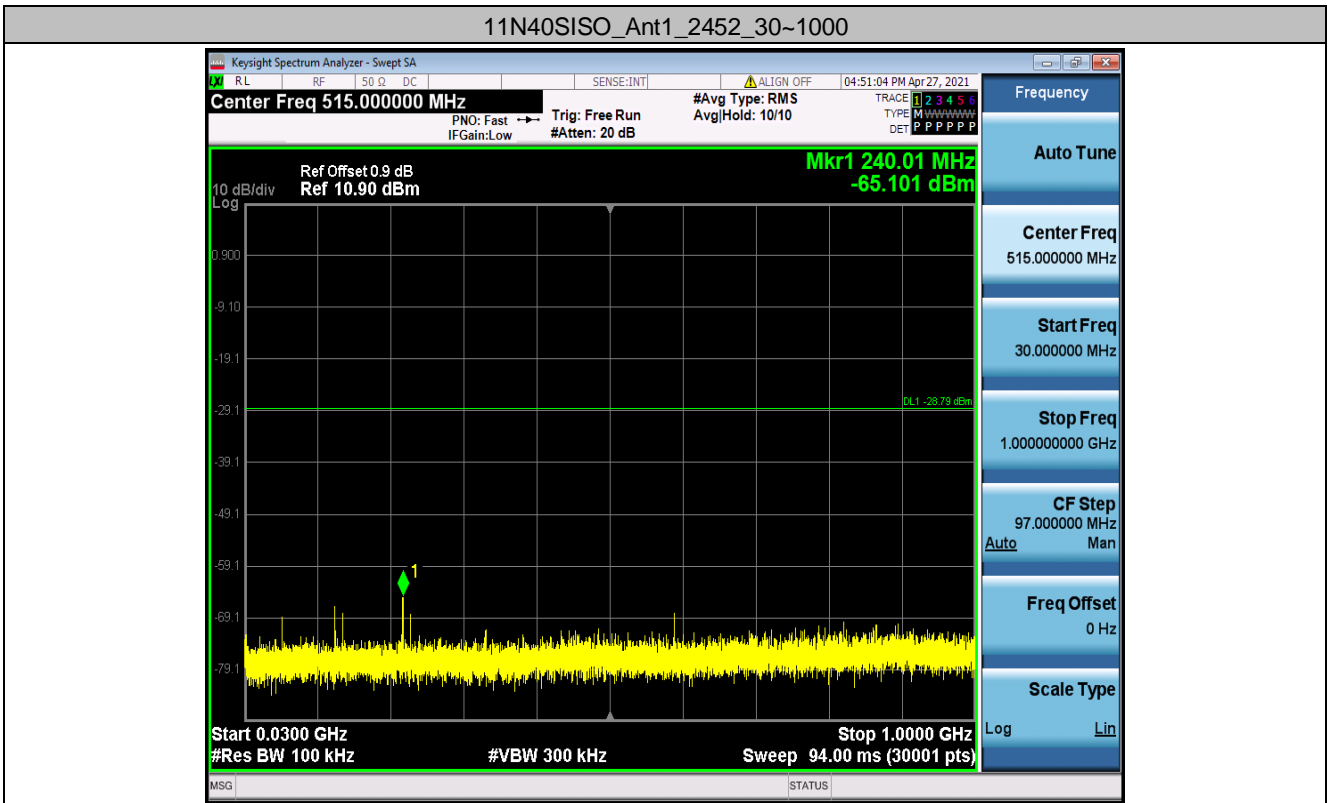


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