



**Appendix A: Duty cycle Test Result**

<b>Item</b>	Duty Cycle
<b>Mode</b>	802.11b/g/n(HT20)/n(HT40)
<b>Result</b>	Duty Cycle:100%; Burst:50ms; Period:50ms
<b>Graph:</b>	 <p>The screenshot shows the Keysight Spectrum Analyzer interface. The main display area shows a spectrum plot with a flat line at 2.412 GHz. The y-axis is labeled 'Scale/Div 10 dB' and ranges from -40.0 to 4.00. The x-axis is labeled 'Center 2.412000000 GHz' and ranges from 2.412000000 to 2.412000000 GHz. The plot shows a flat line at approximately 29.21 dBm. The settings on the right include: Center Frequency 2.412000000 GHz, Span 0.00000000 Hz, Start Freq 2.412000000 GHz, Stop Freq 2.412000000 GHz, Res BW 8 MHz, Sweep 50.1 ms (8000 pts), and Video BW 8.0 MHz. The bottom status bar shows the date and time as Apr 08, 2020, 5:18:23 PM.</p>
<b>Graph:</b>	 <p>This screenshot is identical to the one above, showing the Keysight Spectrum Analyzer interface with a flat line at 2.412 GHz. The settings on the right include: Center Frequency 2.412000000 GHz, Span 0.00000000 Hz, Start Freq 2.412000000 GHz, Stop Freq 2.412000000 GHz, Res BW 8 MHz, Sweep 50.1 ms (8000 pts), and Video BW 8.0 MHz. The bottom status bar shows the date and time as Apr 08, 2020, 5:31:27 PM.</p>

Test Report No.: EFGX20030111-IE-01-E01

Eurofins Electrical Testing Service (Shenzhen) Co., Ltd.

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**Appendix B: 6dB bandwidth Test Result**

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	10.160	2406.960	2417.120	>=0.5	PASS
		2437	10.120	2431.960	2442.080	>=0.5	PASS
		2462	10.120	2456.960	2467.080	>=0.5	PASS

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11g	Ant1	2412	16.600	2403.720	2420.320	>=0.5	PASS
		2437	16.640	2428.720	2445.360	>=0.5	PASS
		2462	16.640	2453.720	2470.360	>=0.5	PASS

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11n (HT20)	Ant1	2412	17.880	2403.120	2421.000	>=0.5	PASS
		2437	17.840	2428.120	2445.960	>=0.5	PASS
		2462	17.840	2453.120	2470.960	>=0.5	PASS

Test Mode	Antenna	Channel	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
802.11n (HT40)	Ant1	2422	36.320	2404.000	2440.320	>=0.5	PASS
		2437	36.240	2419.000	2455.240	>=0.5	PASS
		2452	36.480	2433.760	2470.240	>=0.5	PASS

**Test Graphs**
**11B\_Ant1\_2412**

**11B\_Ant1\_2437**


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### 11B\_Ant1\_2462



### 11G\_Ant1\_2412



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### 11G\_Ant1\_2437



### 11G\_Ant1\_2462



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### 11N20SISO\_Ant1\_2412



### 11N20SISO\_Ant1\_2437



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**11N20SISO\_Ant1\_2462**

**11N40SISO\_Ant1\_2422**

**11N40SISO\_Ant1\_2437**

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11N40SISO\_Ant1\_2452



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**Appendix C: Occupied Channel Bandwidth**

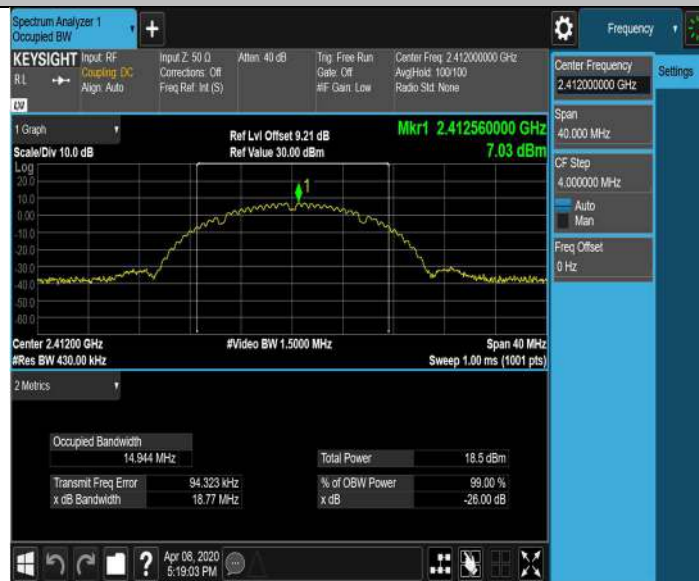
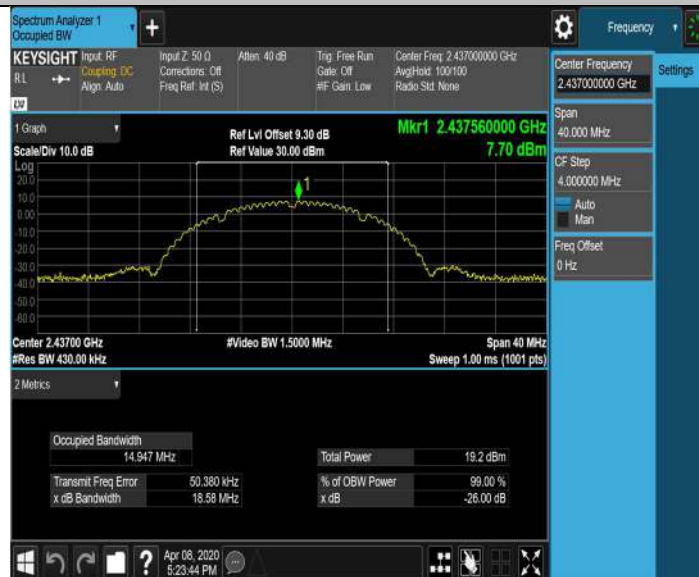
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.944	2404.622	2419.566	---	PASS
		2437	14.947	2429.577	2444.524	---	PASS
		2462	14.994	2454.530	2469.524	---	PASS
11G	Ant1	2412	16.982	2403.527	2420.509	---	PASS
		2437	17.043	2428.440	2445.483	---	PASS
		2462	17.046	2453.429	2470.475	---	PASS
11N20SISO	Ant1	2412	18.038	2403.041	2421.079	---	PASS
		2437	17.989	2428.055	2446.044	---	PASS
		2462	18.039	2452.993	2471.032	---	PASS
11N40SISO	Ant1	2422	36.047	2404.162	2440.209	---	PASS
		2437	35.959	2419.109	2455.068	---	PASS
		2452	35.955	2434.078	2470.033	---	PASS

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**Test Graphs**
**11B\_Ant1\_2412**

**11B\_Ant1\_2437**


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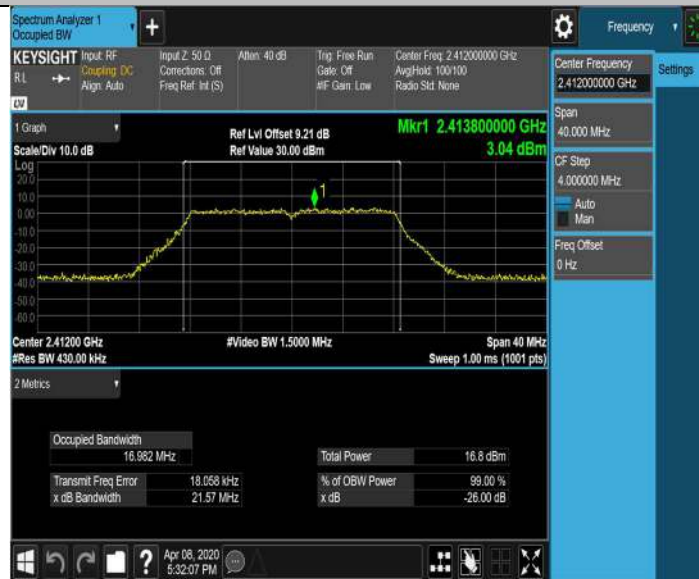
1st Floor, Building 2, Chungu, Meisheng Huigu Science and Technology Park, No. 83 Dabao Road, Bao'an District, Shenzhen.

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### 11B\_Ant1\_2462



### 11G\_Ant1\_2412



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### 11G\_Ant1\_2437



### 11G\_Ant1\_2462



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### 11N20SISO\_Ant1\_2412



### 11N20SISO\_Ant1\_2437



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### 11N20SISO\_Ant1\_2462



### 11N40SISO\_Ant1\_2422



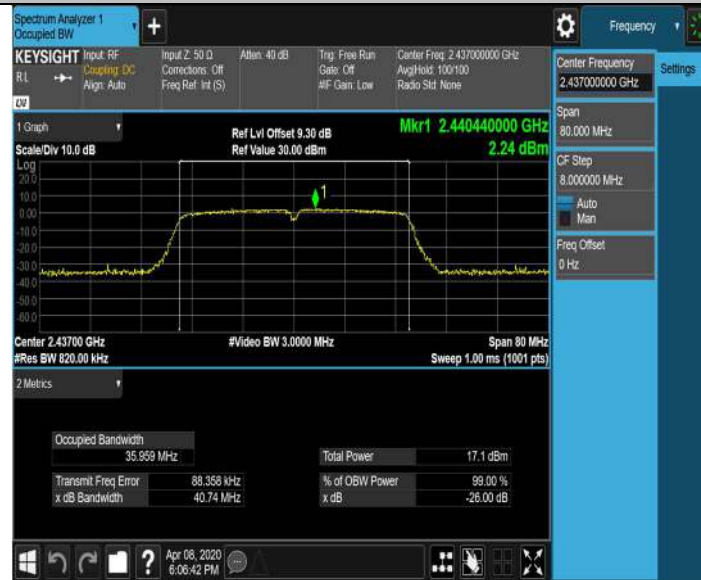
Test Report No.: EFGX20030111-IE-01-E01

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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



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**Appendix D: Conducted output power and E.I.R.P for DTS Test Result**

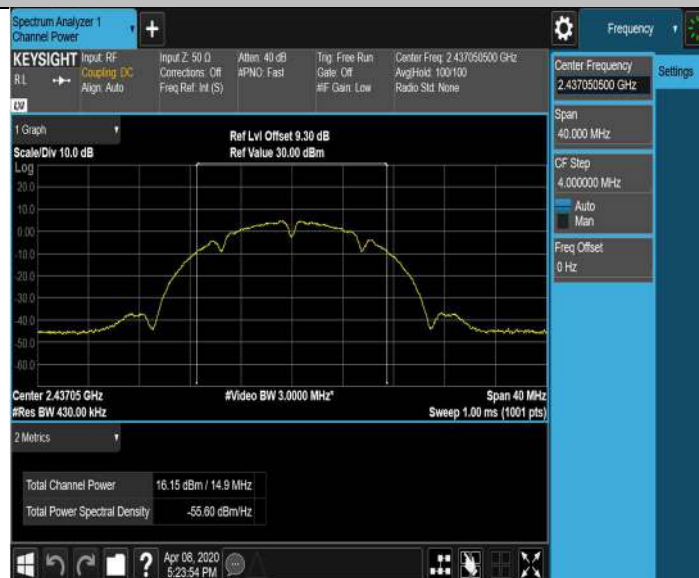
Test Mode	Antenna	Channel	Conducted Power [dBm]	E.I.R.P [dBm]	Conducted Limit [dBm]	E.I.R.P Limit (dBm)	Verdict
11B	Ant1	2412	15.55	18.55	<=30	<=36	PASS
		2437	16.15	19.15	<=30	<=36	PASS
		2462	15.16	18.16	<=30	<=36	PASS
11G	Ant1	2412	10.76	13.76	<=30	<=36	PASS
		2437	11.74	13.74	<=30	<=36	PASS
		2462	11.84	14.84	<=30	<=36	PASS
11N20SISO	Ant1	2412	12.34	15.34	<=30	<=36	PASS
		2437	13.34	16.34	<=30	<=36	PASS
		2462	13.35	16.35	<=30	<=36	PASS
11N40SISO	Ant1	2422	9.66	12.66	<=30	<=36	PASS
		2437	10.25	13.25	<=30	<=36	PASS
		2452	10.40	13.40	<=30	<=36	PASS

## Test Graphs

11B\_Ant1\_2412



11B\_Ant1\_2437



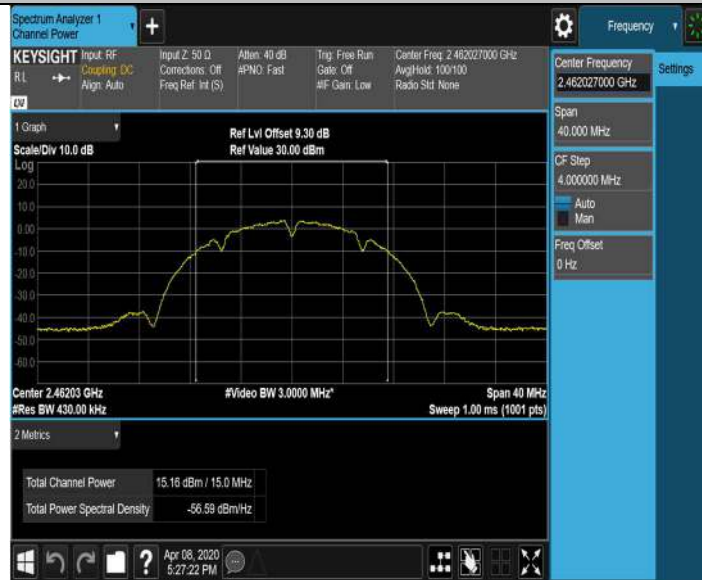
Test Report No.: EFGX20030111-IE-01-E01

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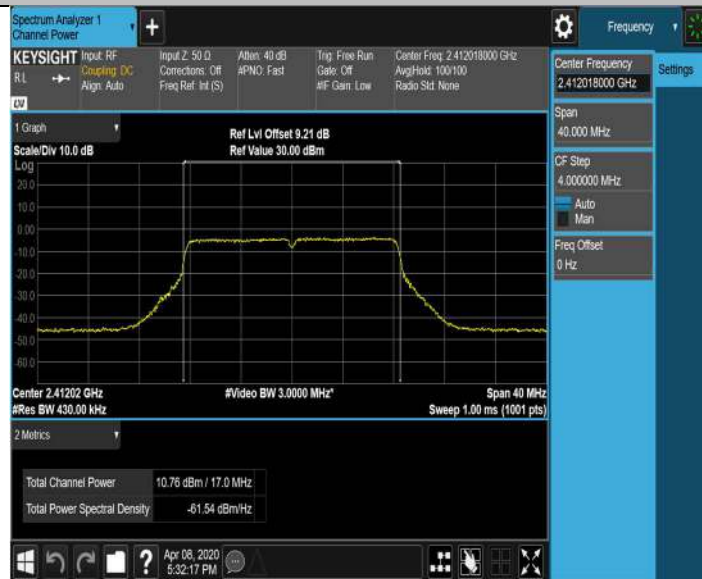
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### 11B\_Ant1\_2462



### 11G\_Ant1\_2412



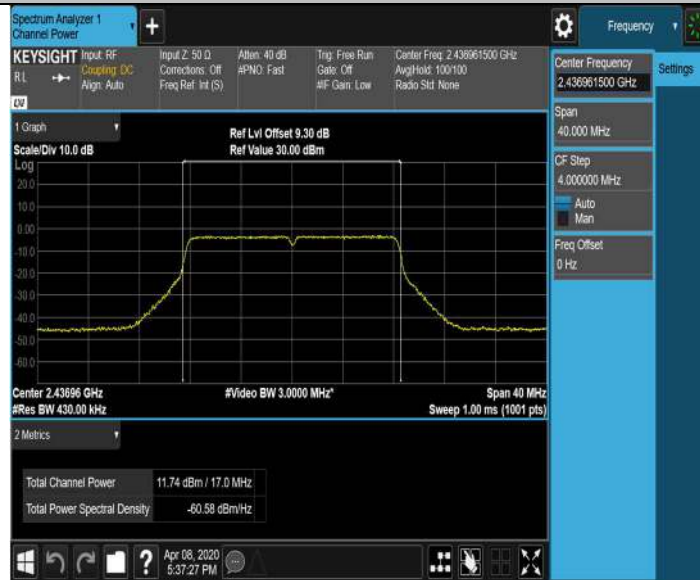
Test Report No.: EFGX20030111-IE-01-E01

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### 11G\_Ant1\_2437



### 11G\_Ant1\_2462

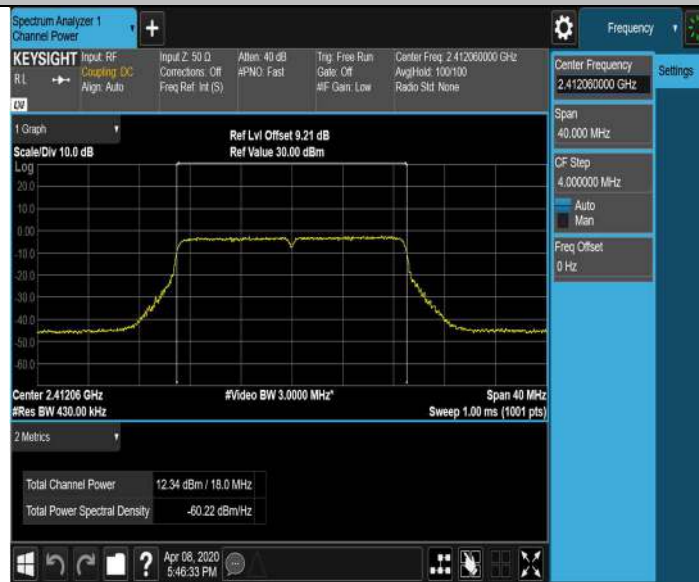
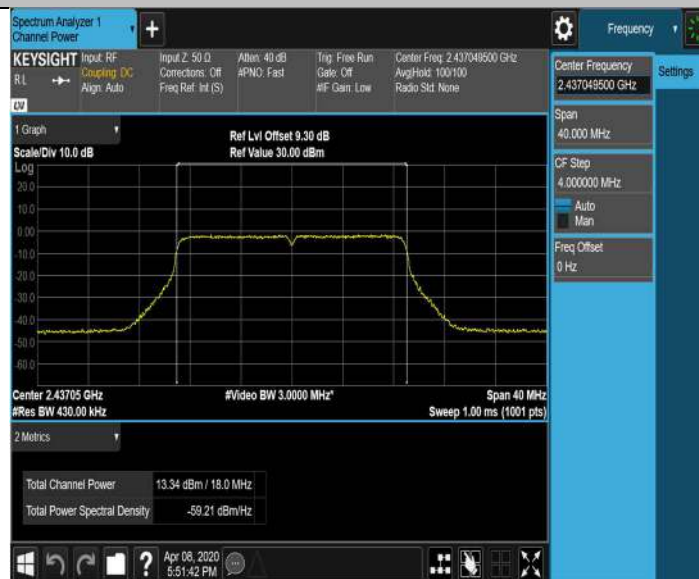


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**11N20SISO\_Ant1\_2412**

**11N20SISO\_Ant1\_2437**


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**11N20SISO\_Ant1\_2462**

**11N40SISO\_Ant1\_2422**

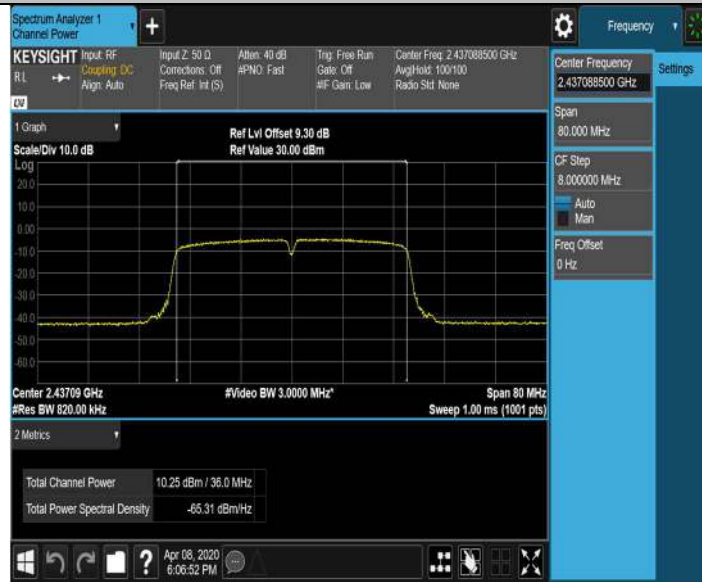

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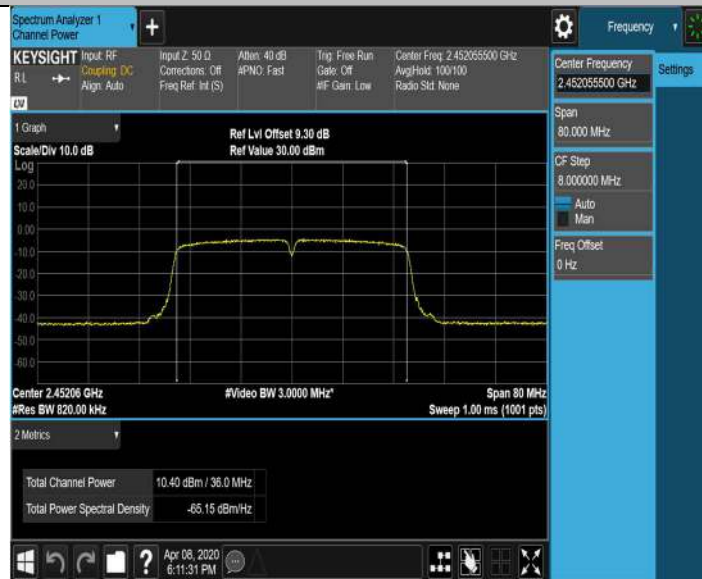
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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



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## Appendix E: Power spectral density Test Result

Test Mode	Antenna	Channel	Result [dBm/3-100kHz]	Limit [dBm/3kHz]	Verdict
802.11b	Ant1	2412	-11.31	<=8	PASS
		2437	-10.06	<=8	PASS
		2462	-11.48	<=8	PASS
802.11g	Ant1	2412	-18.06	<=8	PASS
		2437	-16.98	<=8	PASS
		2462	-17.14	<=8	PASS
802.11n(HT20)	Ant1	2412	-16.27	<=8	PASS
		2437	-15.54	<=8	PASS
		2462	-15.55	<=8	PASS
802.11n(HT40)	Ant1	2422	-21.6	<=8	PASS
		2437	-30.13	<=8	PASS
		2452	-20.89	<=8	PASS

### Test Graphs



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### 11B\_Ant1\_2437



### 11B\_Ant1\_2462



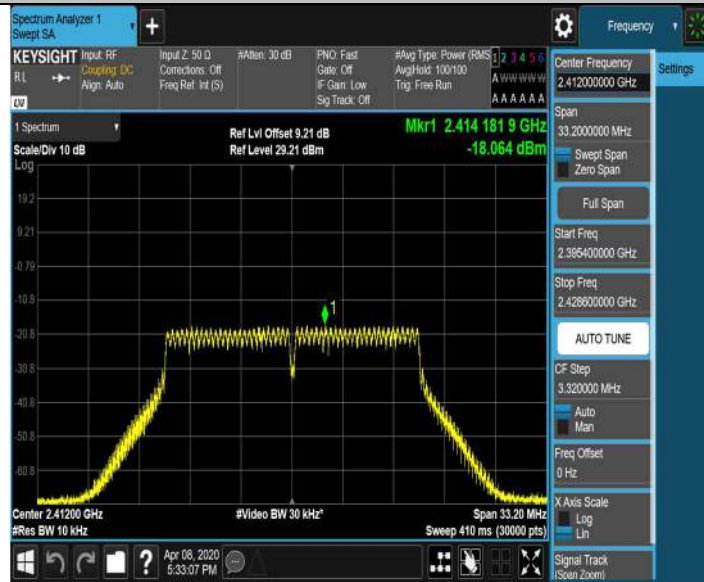
Test Report No.: EFGX20030111-IE-01-E01

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### 11G\_Ant1\_2412



### 11G\_Ant1\_2437



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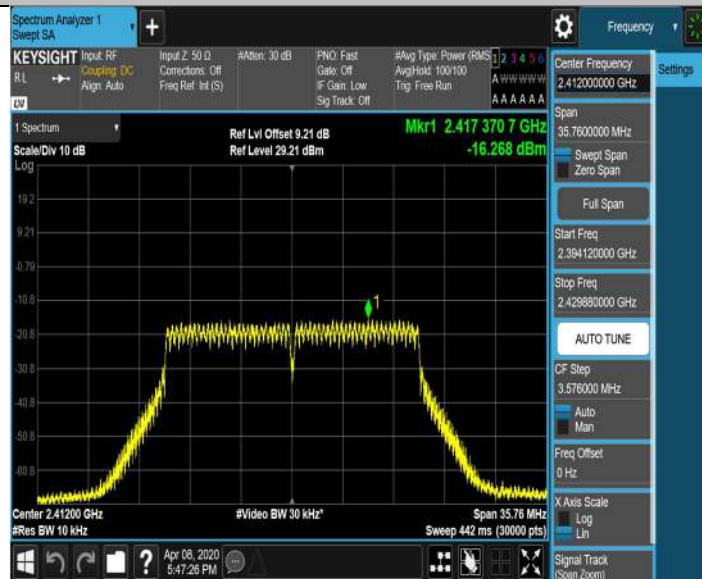
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### 11G\_Ant1\_2462



### 11N20SISO\_Ant1\_2412



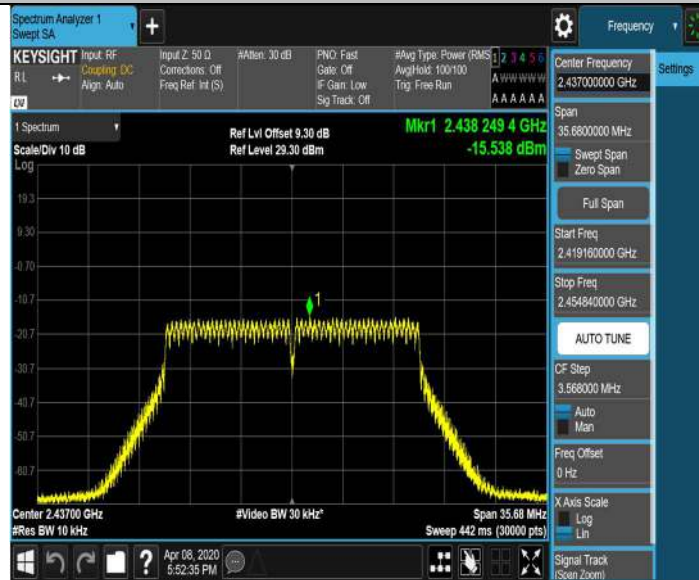
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### 11N20SISO\_Ant1\_2437



### 11N20SISO\_Ant1\_2462



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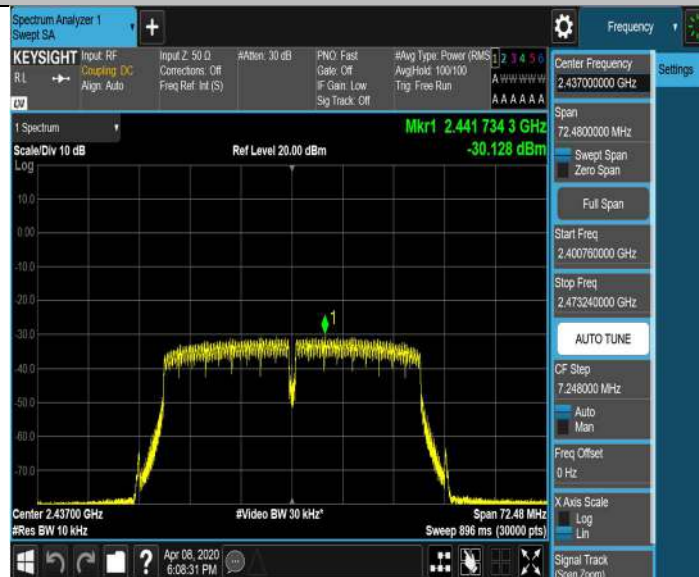
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### 11N40SISO\_Ant1\_2422



### 11N40SISO\_Ant1\_2437

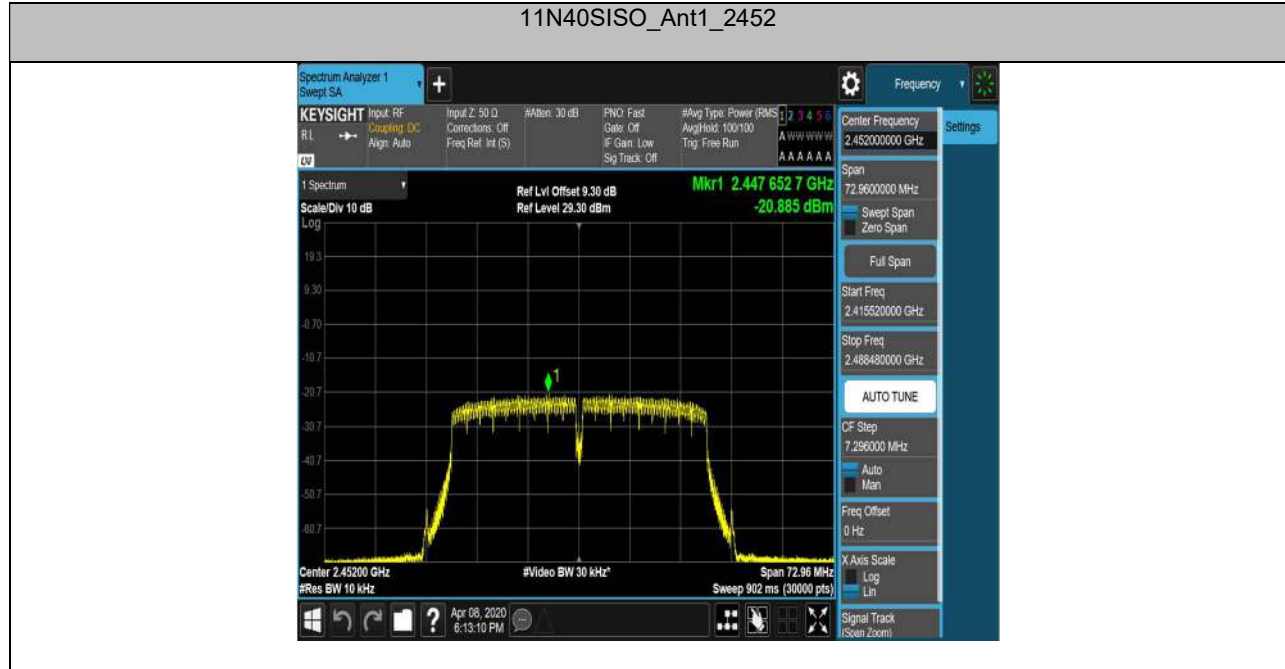


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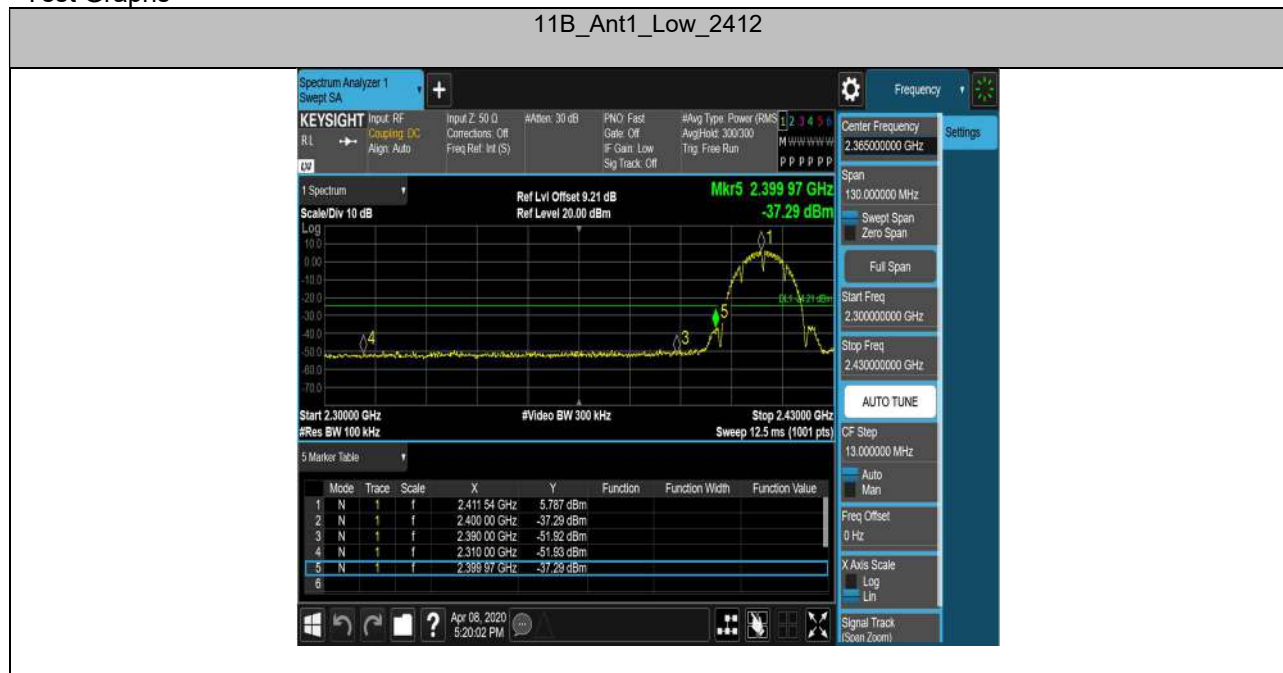
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## Appendix F: Band edge Test Result

Test Mode	Antenna	Ch Name	Channel	Ref Level[dBm]	Result[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	Low	2412	5.79	-37.29	<=-24.21	PASS
		High	2462	5.47	-48.87	<=-24.53	PASS
802.11g	Ant1	Low	2412	-3.55	-41.62	<=-33.55	PASS
		High	2462	-2.52	-48.28	<=-32.52	PASS
802.11n(HT20)	Ant1	Low	2412	-1.81	-39.19	<=-31.81	PASS
		High	2462	-0.61	-47.44	<=-30.61	PASS
802.11n(HT40)	Ant1	Low	2422	-7.32	-44.68	<=-37.32	PASS
		High	2452	-6.46	-49.45	<=-36.46	PASS

## Test Graphs



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### 11B\_Ant1\_High\_2462



### 11G\_Ant1\_Low\_2412



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### 11G\_Ant1\_High\_2462



### 11N20\_Ant1\_Low\_2412



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### 11N20\_Ant1\_High\_2462



### 11N40\_Ant1\_Low\_2422



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11N40\_Ant1\_High\_2452



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**Appendix G: Emissions in Restricted Bands Test Result**

Test Mode	Antenna	ChName	Channel	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	Low	2412	AV	2310.000	-48.92	<=-41.20	PASS
				AV	2390.000	-47.23	<=-41.20	PASS
				Peak	2310.000	-43.85	<=-21.20	PASS
				Peak	2390.000	-41.74	<=-21.20	PASS
		High	2462	AV	2483.500	-46.75	<=-41.20	PASS
				AV	2500.000	-47.4	<=-41.20	PASS
				Peak	2483.500	-42.67	<=-21.20	PASS
				Peak	2500.000	-42.1	<=-21.20	PASS
802.11g	Ant1	Low	2412	AV	2310.000	-49.06	<=-41.20	PASS
				AV	2390.000	-48.19	<=-41.20	PASS
				Peak	2310.000	-44.77	<=-21.20	PASS
				Peak	2390.000	-42.3	<=-21.20	PASS
		High	2462	AV	2483.500	-47.27	<=-41.20	PASS
				AV	2500.000	-48.11	<=-41.20	PASS
				Peak	2483.500	-44.09	<=-21.20	PASS
				Peak	2500.000	-40.92	<=-21.20	PASS
802.11n (HT20)	Ant1	Low	2412	AV	2310.000	-48.76	<=-41.20	PASS
				AV	2390.000	-47.67	<=-41.20	PASS
				Peak	2310.000	-40.12	<=-21.20	PASS
				Peak	2390.000	-42.49	<=-21.20	PASS
		High	2462	AV	2483.500	-46.64	<=-41.20	PASS
				AV	2500.000	-47.6	<=-41.20	PASS
				Peak	2483.500	-41.11	<=-21.20	PASS
				Peak	2500.000	-43.53	<=-21.20	PASS

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802.11n (HT40)	Ant1	Low	2422	AV	2310.000	-49.04	<=-41.20	PASS
				AV	2390.000	-48.07	<=-41.20	PASS
				Peak	2310.000	-44.09	<=-21.20	PASS
				Peak	2390.000	-40.16	<=-21.20	PASS
	High	2452	AV	2483.500	-47.64	<=-41.20	PASS	
			AV	2500.000	-47.79	<=-41.20	PASS	
			Peak	2483.500	-42.63	<=-21.20	PASS	
			Peak	2500.000	-45.2	<=-21.20	PASS	

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

### Test Graphs

11B\_Ant1\_Low\_2412\_AV



11B\_Ant1\_Low\_2412\_Peak



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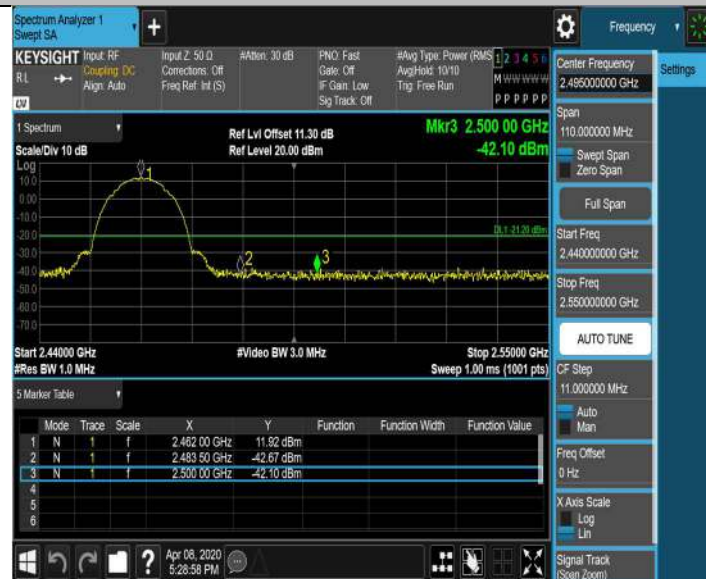
1st Floor, Building 2, Chungu, Meisheng Huigu Science and Technology Park, No. 83 Dabao Road, Bao'an District, Shenzhen.

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### 11B\_Ant1\_High\_2462\_AV



### 11B\_Ant1\_High\_2462\_Peak



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### 11G\_Ant1\_Low\_2412\_AV



### 11G\_Ant1\_Low\_2412\_Peak



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### 11G\_Ant1\_High\_2462\_AV



### 11G\_Ant1\_High\_2462\_Peak



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### 11N20SISO\_Ant1\_Low\_2412\_AV



### 11N20SISO\_Ant1\_Low\_2412\_Peak



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### 11N20SISO\_Ant1\_High\_2462\_AV



### 11N20SISO\_Ant1\_High\_2462\_Peak



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### 11N40SISO\_Ant1\_Low\_2422\_AV



### 11N40SISO\_Ant1\_Low\_2422\_Peak



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### 11N40SISO\_Ant1\_High\_2452\_AV



### 11N40SISO\_Ant1\_High\_2452\_Peak



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**Appendix H: Spurious RF conducted emissions Test Result**

Test Mode	Antenna	Channel	Freq Range [Mhz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
802.11b	Ant1	2412	Reference	5.81	5.81	---	PASS
			30~1000	30~1000	-61.634	<=-14.188	PASS
			1000~26500	1000~26500	-39.317	<=-14.188	PASS
		2437	Reference	6.28	6.28	---	PASS
			30~1000	30~1000	-61.386	<=-13.718	PASS
			1000~26500	1000~26500	-53.279	<=-13.718	PASS
		2462	Reference	5.40	5.40	---	PASS
			30~1000	30~1000	-61.37	<=-14.602	PASS
			1000~26500	1000~26500	-53.316	<=-14.602	PASS
802.11g	Ant1	2412	Reference	-3.69	-3.69	---	PASS
			30~1000	30~1000	-61.538	<=-23.689	PASS
			1000~26500	1000~26500	-40.027	<=-23.689	PASS
		2437	Reference	-2.70	-2.70	---	PASS
			30~1000	30~1000	-61.912	<=-22.697	PASS
			1000~26500	1000~26500	-52.954	<=-22.697	PASS
		2462	Reference	-2.61	-2.61	---	PASS
			30~1000	30~1000	-62.112	<=-22.61	PASS
			1000~26500	1000~26500	-53.038	<=-22.61	PASS
802.11n(HT20)	Ant1	2412	Reference	-2.19	-2.19	---	PASS
			30~1000	30~1000	-61.614	<=-22.194	PASS
			1000~26500	1000~26500	-39.474	<=-22.194	PASS
		2437	Reference	-0.96	-0.96	---	PASS
			30~1000	30~1000	-61.947	<=-20.957	PASS
			1000~26500	1000~26500	-53.143	<=-20.957	PASS
		2462	Reference	-0.63	-0.63	---	PASS

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			30~1000	30~1000	-61.008	<=-20.631	PASS
			1000~26500	1000~26500	-52.248	<=-20.631	PASS
802.11n(HT40)	Ant1	2422	Reference	-7.22	-7.22	---	PASS
			30~1000	30~1000	-61.844	<=-27.221	PASS
			1000~26500	1000~26500	-43.077	<=-27.221	PASS
		2437	Reference	-6.62	-6.62	---	PASS
			30~1000	30~1000	-60.712	<=-26.619	PASS
			1000~26500	1000~26500	-52.854	<=-26.619	PASS
		2452	Reference	-6.91	-6.91	---	PASS
			30~1000	30~1000	-60.378	<=-26.905	PASS
			1000~26500	1000~26500	-53.289	<=-26.905	PASS

### Test Graphs



**11B\_Ant1\_2412\_30~1000**

**11B\_Ant1\_2412\_1000~26500**


Test Report No.: EFGX20030111-IE-01-E01

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### 11B\_Ant1\_2437\_0~Reference



### 11B\_Ant1\_2437\_30~1000



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### 11B\_Ant1\_2437\_1000~26500



### 11B\_Ant1\_2462\_0~Reference



**11B\_Ant1\_2462\_30~1000**

**11B\_Ant1\_2462\_1000~26500**

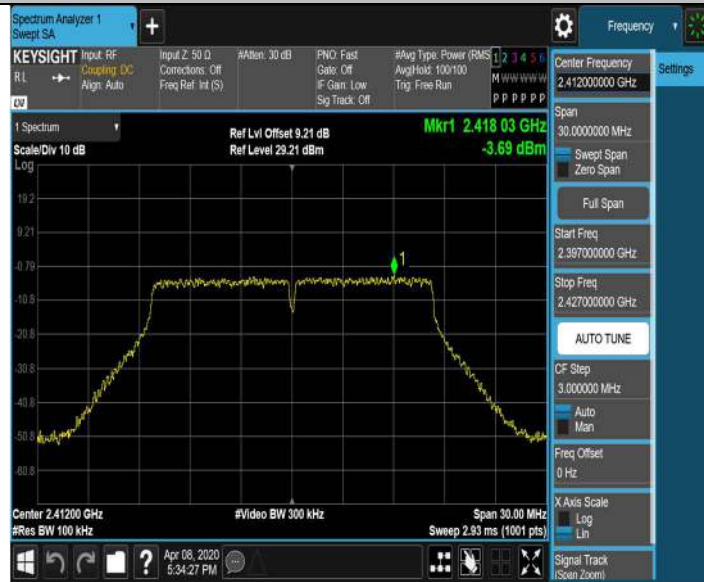

Test Report No.: EFGX20030111-IE-01-E01

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### 11G\_Ant1\_2412\_0~Reference



### 11G\_Ant1\_2412\_30~1000



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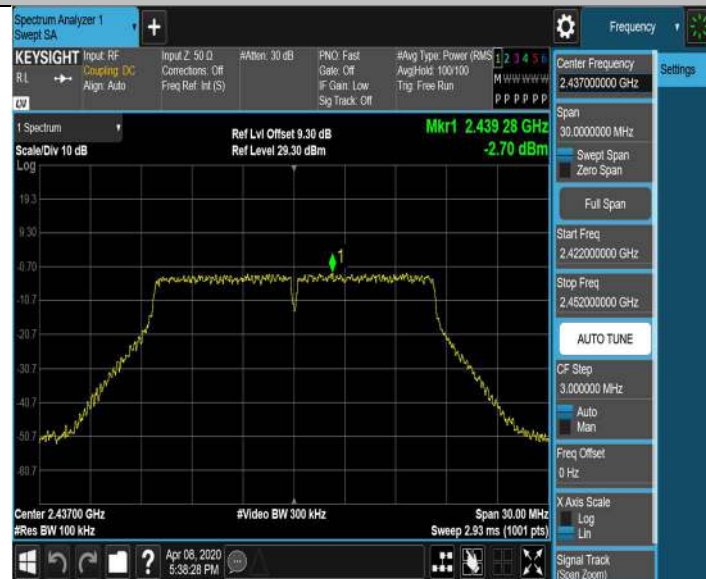
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### 11G\_Ant1\_2412\_1000~26500



### 11G\_Ant1\_2437\_0~Reference



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11G\_Ant1\_2437\_30~1000



11G\_Ant1\_2437\_1000~26500



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### 11G\_Ant1\_2462\_0~Reference



### 11G\_Ant1\_2462\_30~1000



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11G\_Ant1\_2462\_1000~26500



11N20SISO\_Ant1\_2412\_0~Reference



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**11N20SISO\_Ant1\_2412\_30~1000**

**11N20SISO\_Ant1\_2412\_1000~26500**

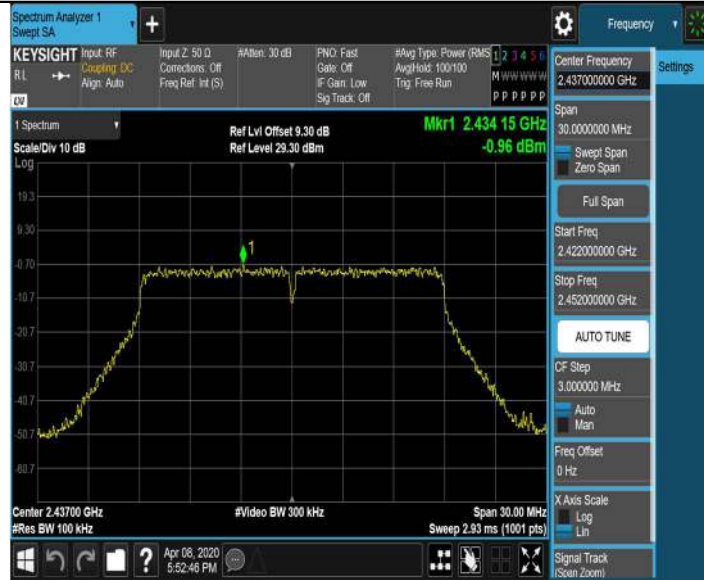

Test Report No.: EFGX20030111-IE-01-E01

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11N20SISO\_Ant1\_2437\_0~Reference



11N20SISO\_Ant1\_2437\_30~1000



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11N20SISO\_Ant1\_2437\_1000~26500



11N20SISO\_Ant1\_2462\_0~Reference



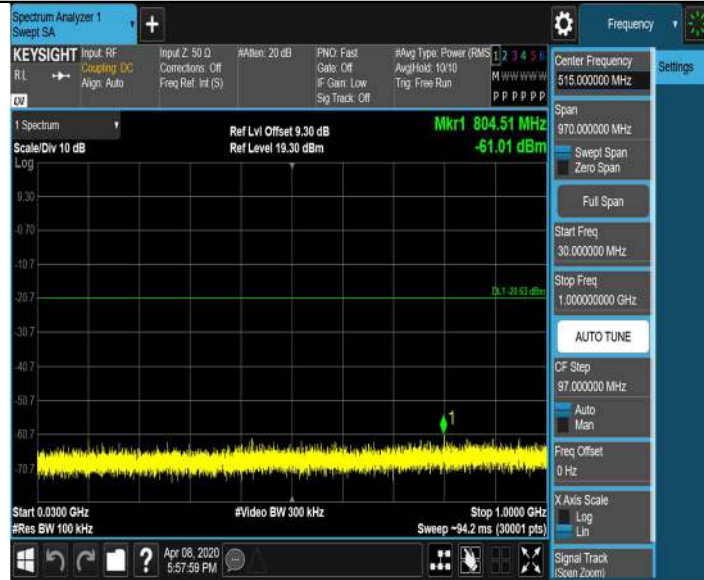
Test Report No.: EFGX20030111-IE-01-E01

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11N20SISO\_Ant1\_2462\_30~1000



11N20SISO\_Ant1\_2462\_1000~26500



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### 11N40SISO\_Ant1\_2422\_0~Reference



### 11N40SISO\_Ant1\_2422\_30~1000



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11N40SISO\_Ant1\_2422\_1000~26500



11N40SISO\_Ant1\_2437\_0~Reference



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11N40SISO\_Ant1\_2437\_30~1000



11N40SISO\_Ant1\_2437\_1000~26500



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### 11N40SISO\_Ant1\_2452\_0~Reference



### 11N40SISO\_Ant1\_2452\_30~1000



Test Report No.: EFGX20030111-IE-01-E01

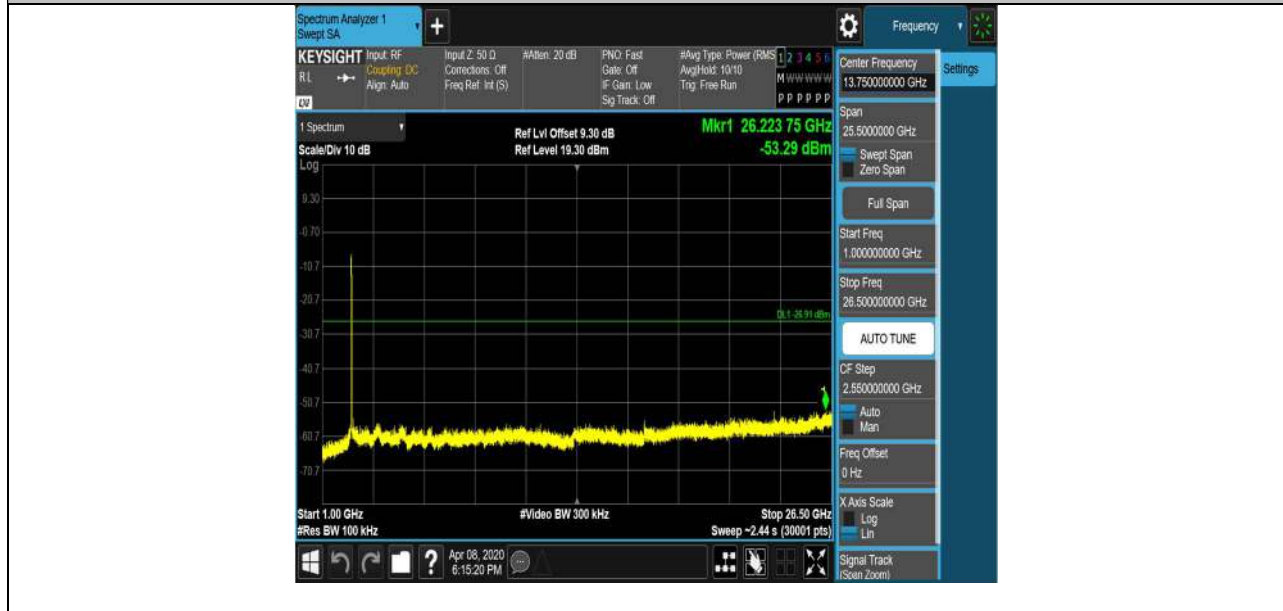
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11N40SISO\_Ant1\_2452\_1000~26500



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**Appendix I: Transmitter frequency stability**

Test Mode	Antenna	Channel	Test Frequency	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	2412.094	2404.622	2419.566	±80% of Permitted operating frequency	PASS
		2437	2437.051	2429.577	2444.524		PASS
		2462	2462.027	2454.530	2469.524		PASS
11G	Ant1	2412	2412.018	2403.527	2420.509		PASS
		2437	2436.962	2428.440	2445.483		PASS
		2462	2461.952	2453.429	2470.475		PASS
11N20SISO	Ant1	2412	2412.06	2403.041	2421.079		PASS
		2437	2437.05	2428.055	2446.044		PASS
		2462	2462.013	2452.993	2471.032		PASS
11N40SISO	Ant1	2422	2422.186	2404.162	2440.209		PASS
		2437	2437.089	2419.109	2455.068		PASS
		2452	2452.056	2434.078	2470.033		PASS

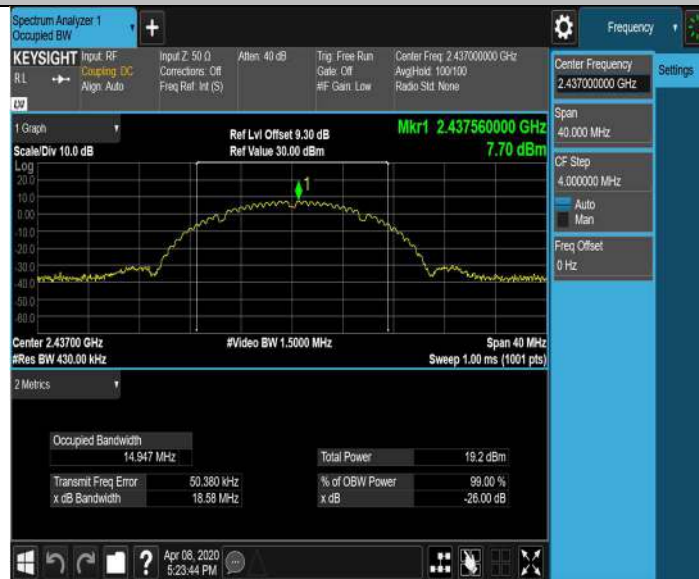
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**Test Graphs**
**11B\_Ant1\_2412**

**11B\_Ant1\_2437**


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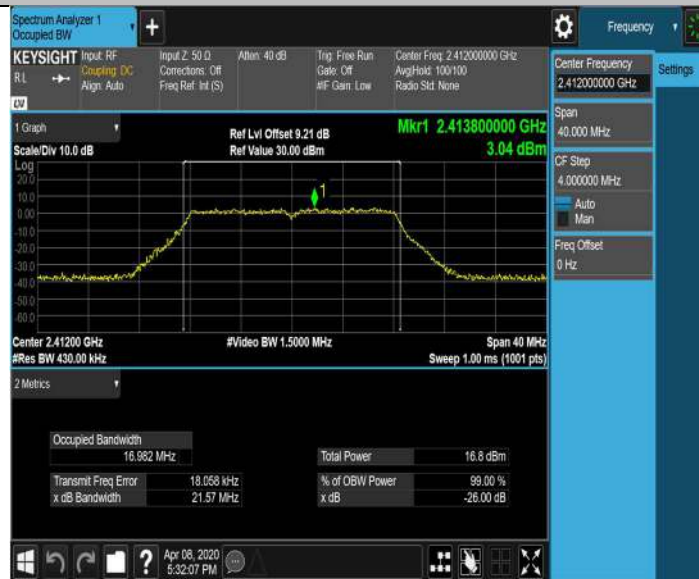
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### 11B\_Ant1\_2462



### 11G\_Ant1\_2412



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### 11G\_Ant1\_2437



### 11G\_Ant1\_2462



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### 11N20SISO\_Ant1\_2412



### 11N20SISO\_Ant1\_2437



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### 11N20SISO\_Ant1\_2462



### 11N40SISO\_Ant1\_2422



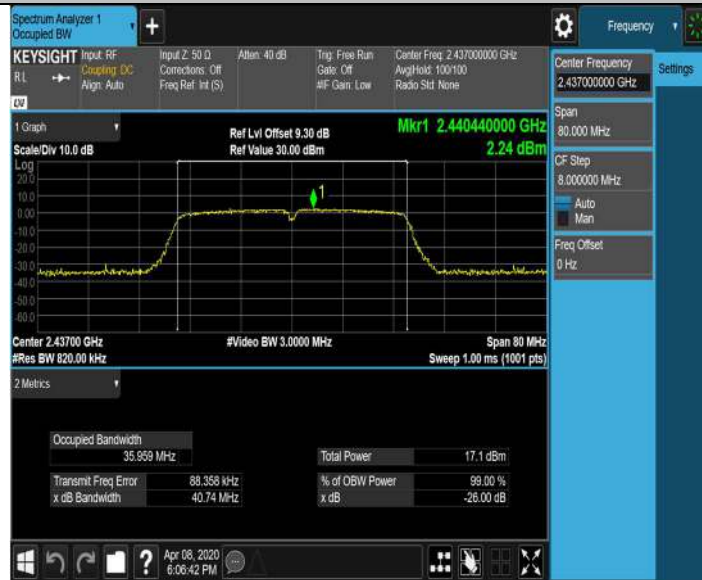
Test Report No.: EFGX20030111-IE-01-E01

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### 11N40SISO\_Ant1\_2437



### 11N40SISO\_Ant1\_2452



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