



## Appendix A

### RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Air Purifier

Trade Mark: N/A

Test Model: Dn-905

#### Environmental Conditions

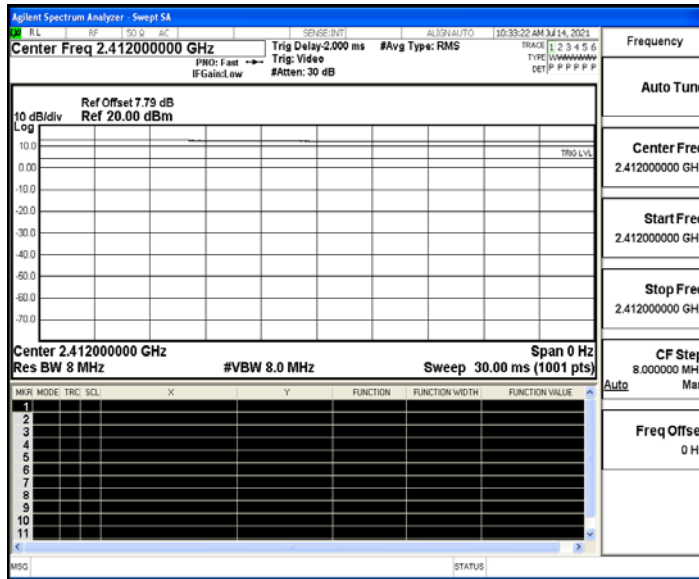
Temperature:	21.6 ° C
Relative Humidity:	52.7%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

#### A.1 Duty Cycle

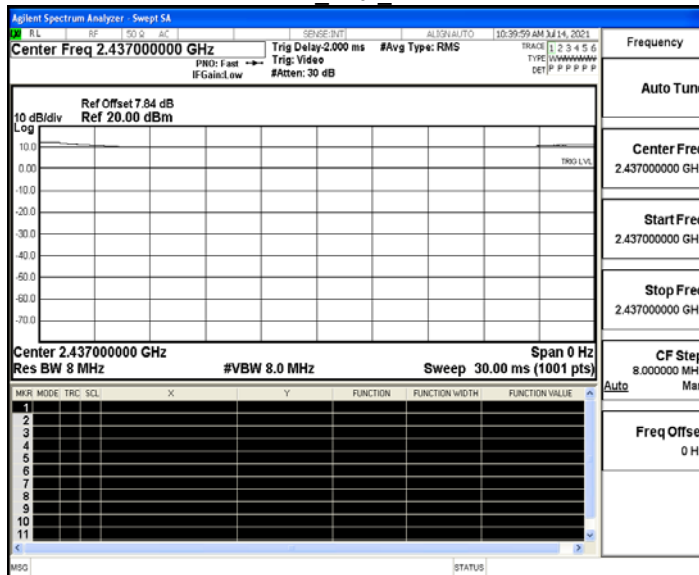
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11B	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11G	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11N20SISO	Ant1	2412	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2462	30.00	30.00	100.00	---	PASS
11N40SISO	Ant1	2422	30.00	30.00	100.00	---	PASS
		2437	30.00	30.00	100.00	---	PASS
		2452	30.00	30.00	100.00	---	PASS



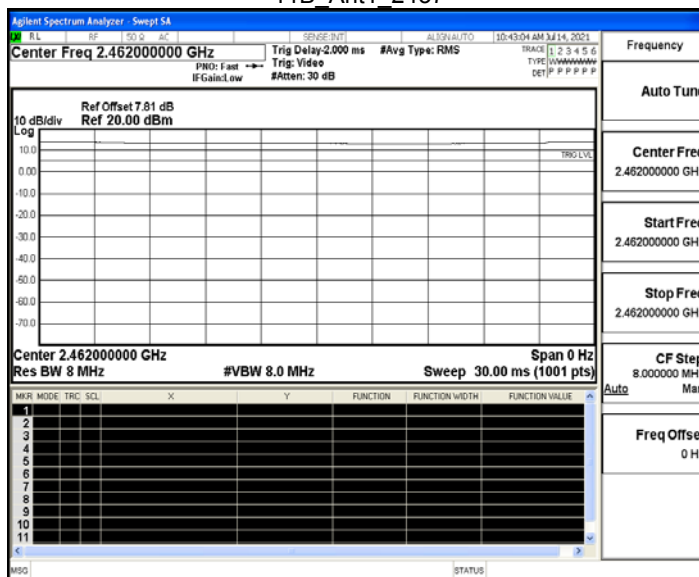
### Test Graphs



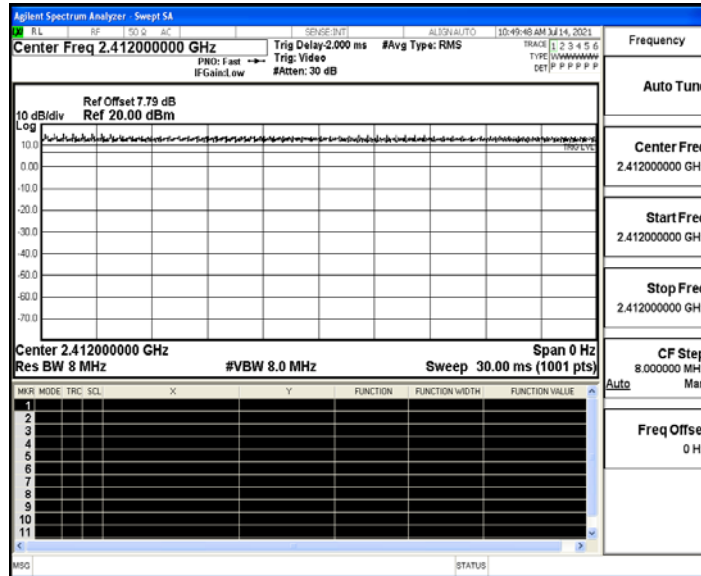
11B Ant1 2412



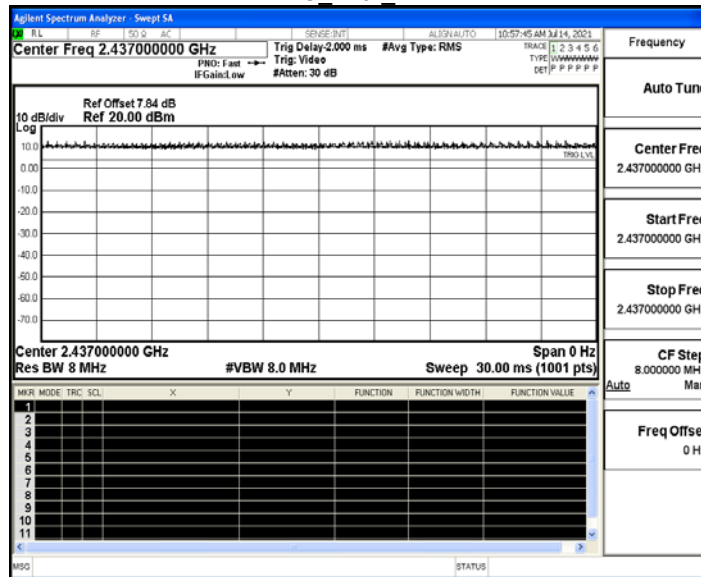
11B Ant1 2437



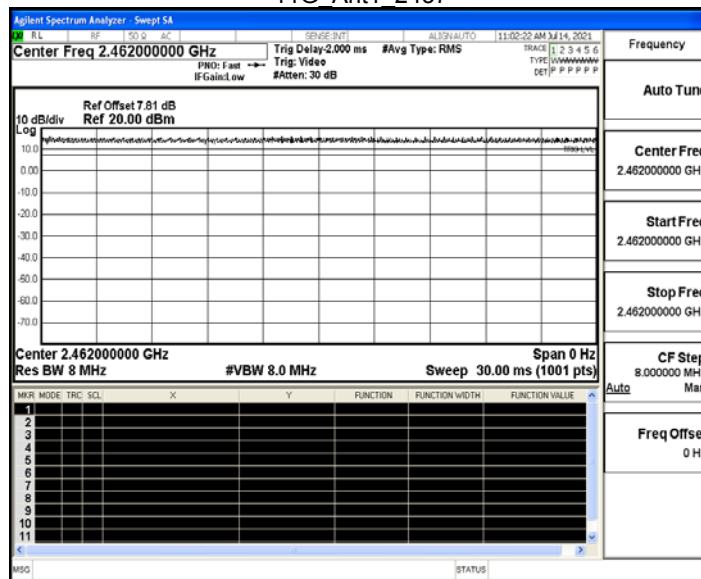
11B\_Ant1\_2462



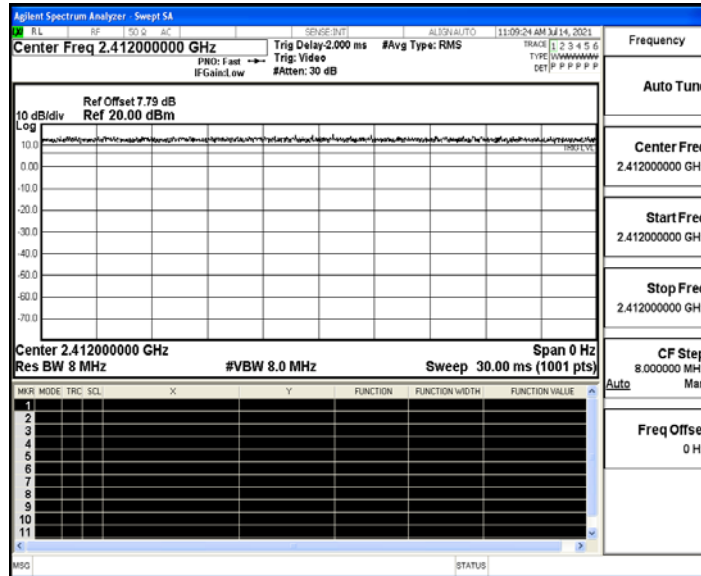
11G\_Ant1\_2412



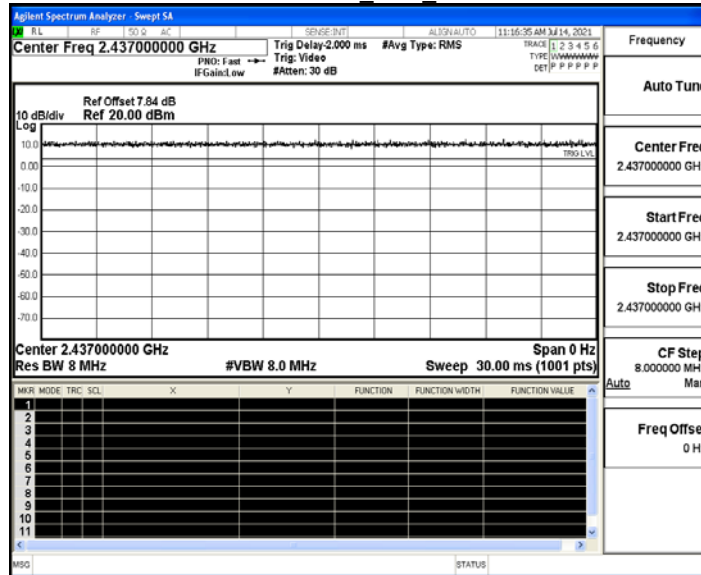
11G\_Ant1\_2437



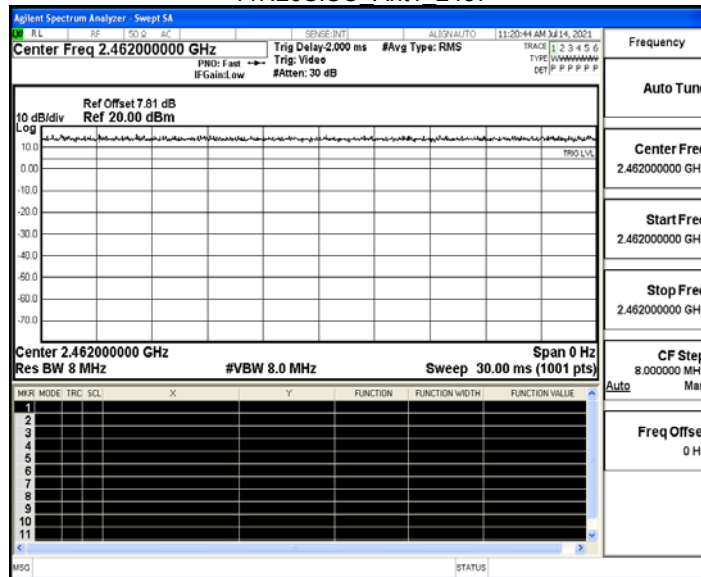
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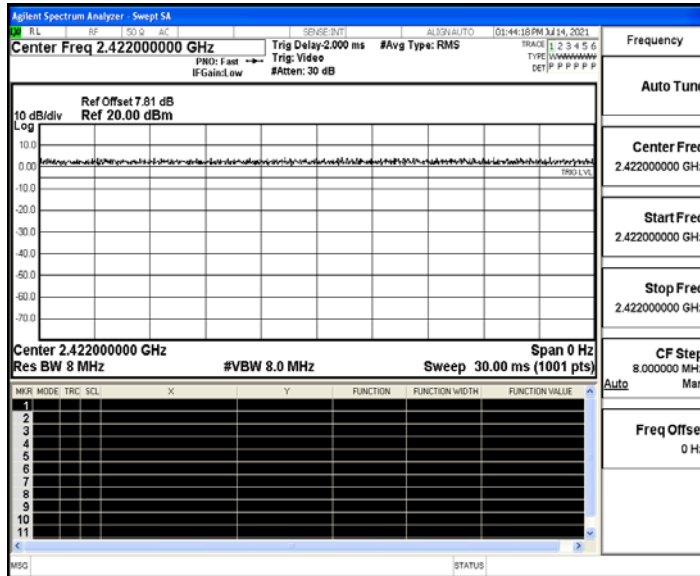
11N20SISO Ant1 2412



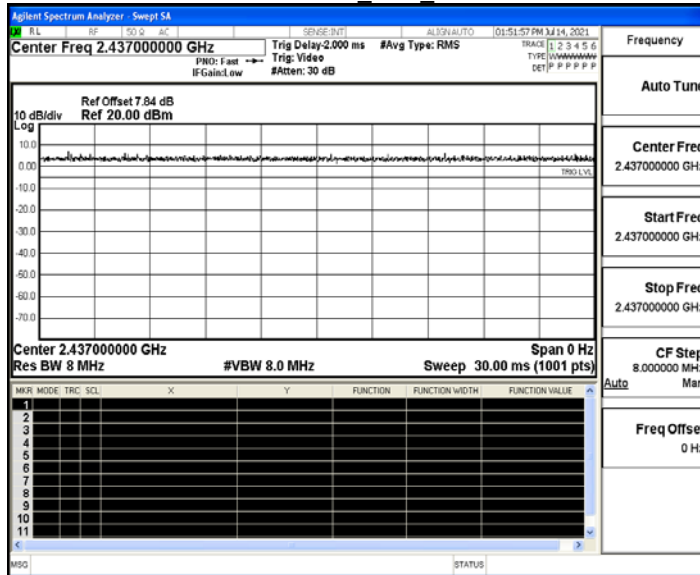
11N20SISO Ant1 2437



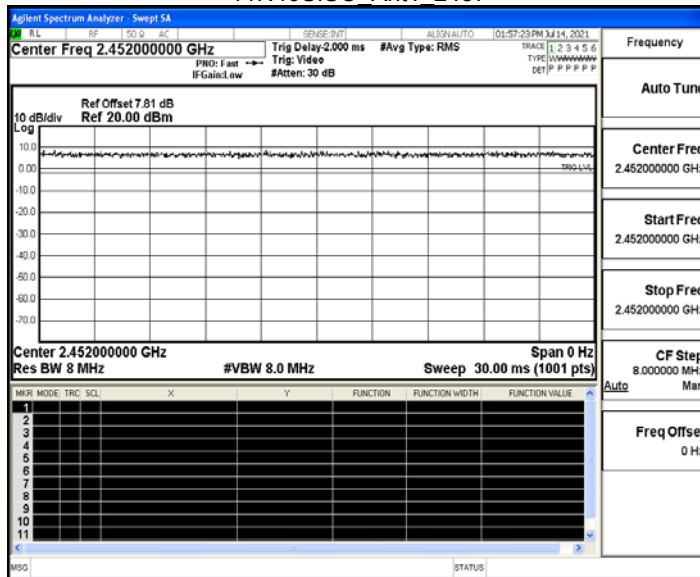
11N20SISO\_Ant1\_2462



11N40SISO Ant1\_2422



11N40SISO Ant1\_2437



11N40SISO\_Ant1\_2452



## A.2 Maximum Conducted Output Power

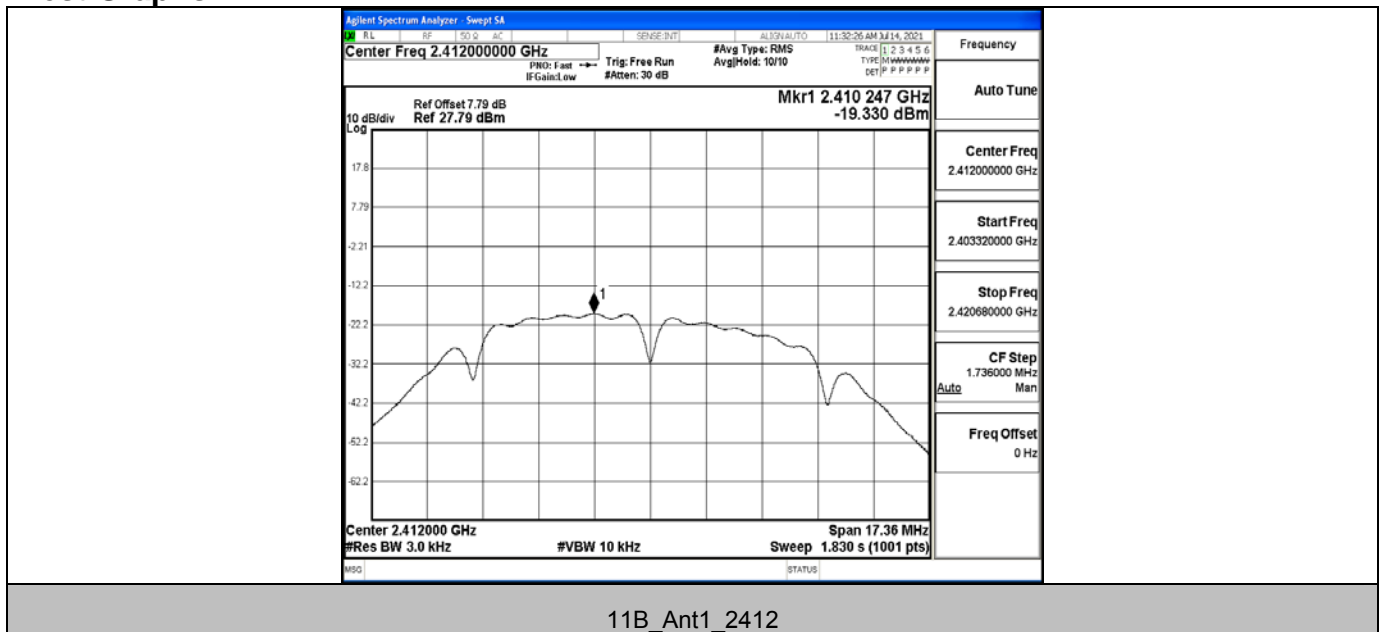
TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	2412	11.54	≤30	PASS
		2437	10.28	≤30	PASS
		2462	12.60	≤30	PASS
11G	Ant1	2412	11.79	≤30	PASS
		2437	11.87	≤30	PASS
		2462	10.59	≤30	PASS
11N20SISO	Ant1	2412	11.00	≤30	PASS
		2437	10.96	≤30	PASS
		2462	9.79	≤30	PASS
11N40SISO	Ant1	2422	9.48	≤30	PASS
		2437	10.98	≤30	PASS
		2452	11.21	≤30	PASS

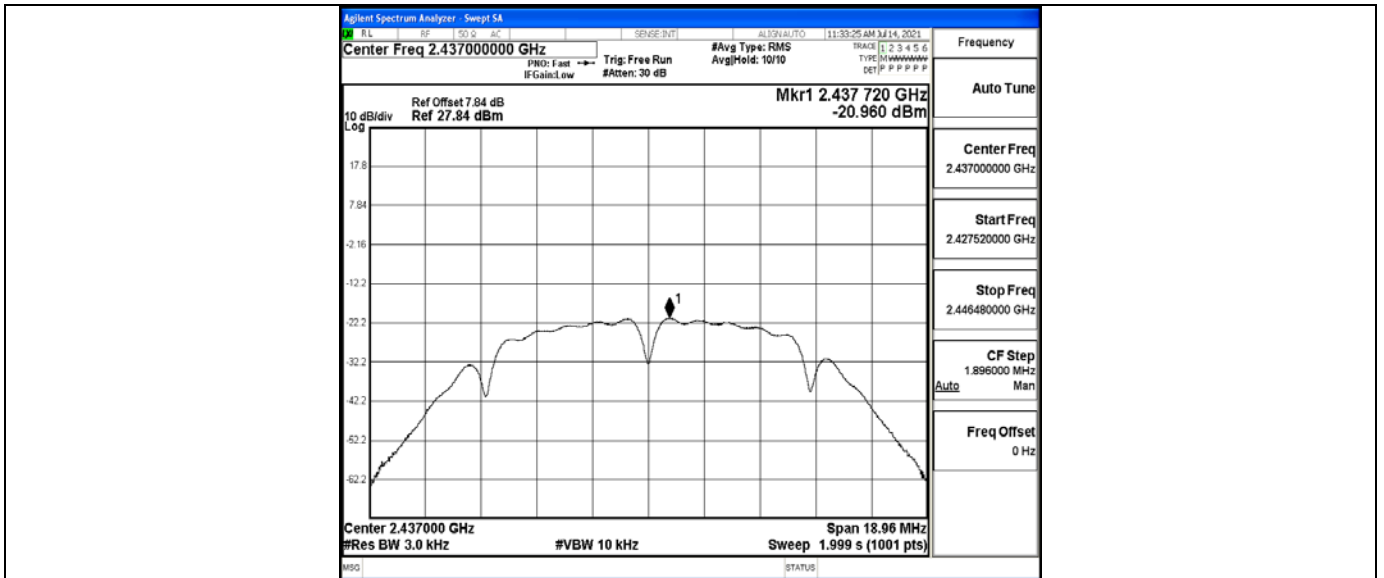


### A.3 Maximum Power Spectral Density

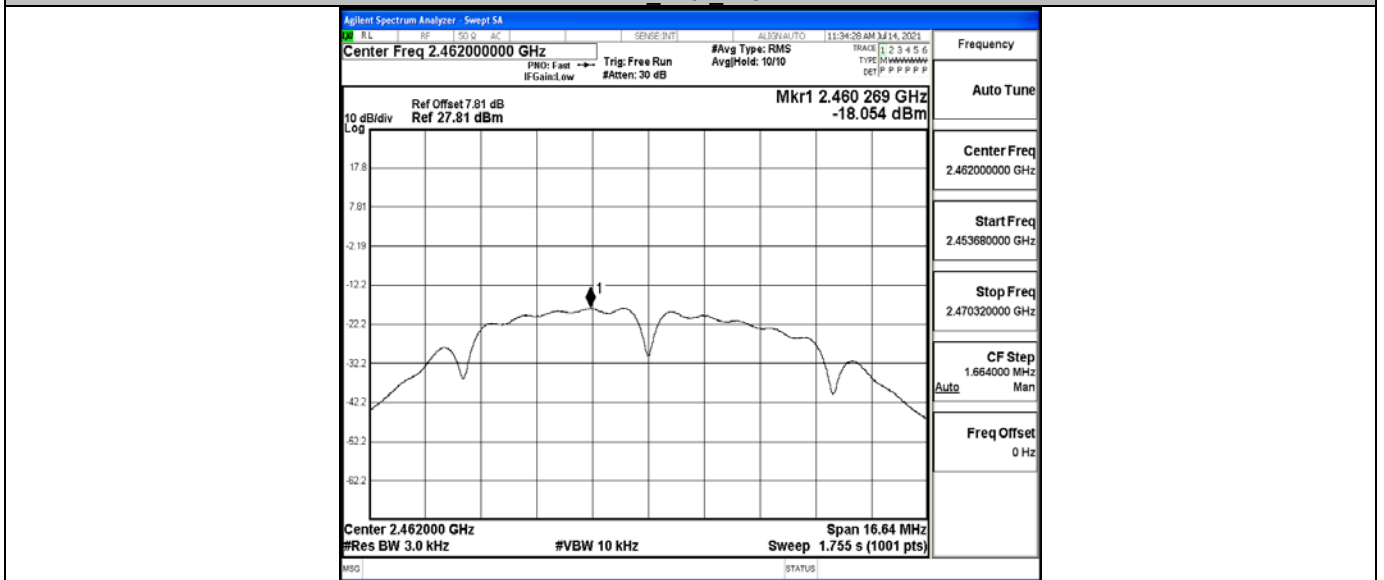
TestMode	Antenna	Channel	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-19.33	≤8	PASS
		2437	-20.96	≤8	PASS
		2462	-18.05	≤8	PASS
11G	Ant1	2412	-21.64	≤8	PASS
		2437	-22.56	≤8	PASS
		2462	-21.96	≤8	PASS
11N20SISO	Ant1	2412	-21.95	≤8	PASS
		2437	-23.89	≤8	PASS
		2462	-23.23	≤8	PASS
11N40SISO	Ant1	2422	-24.3	≤8	PASS
		2437	-23.6	≤8	PASS
		2452	-22.04	≤8	PASS

### Test Graphs

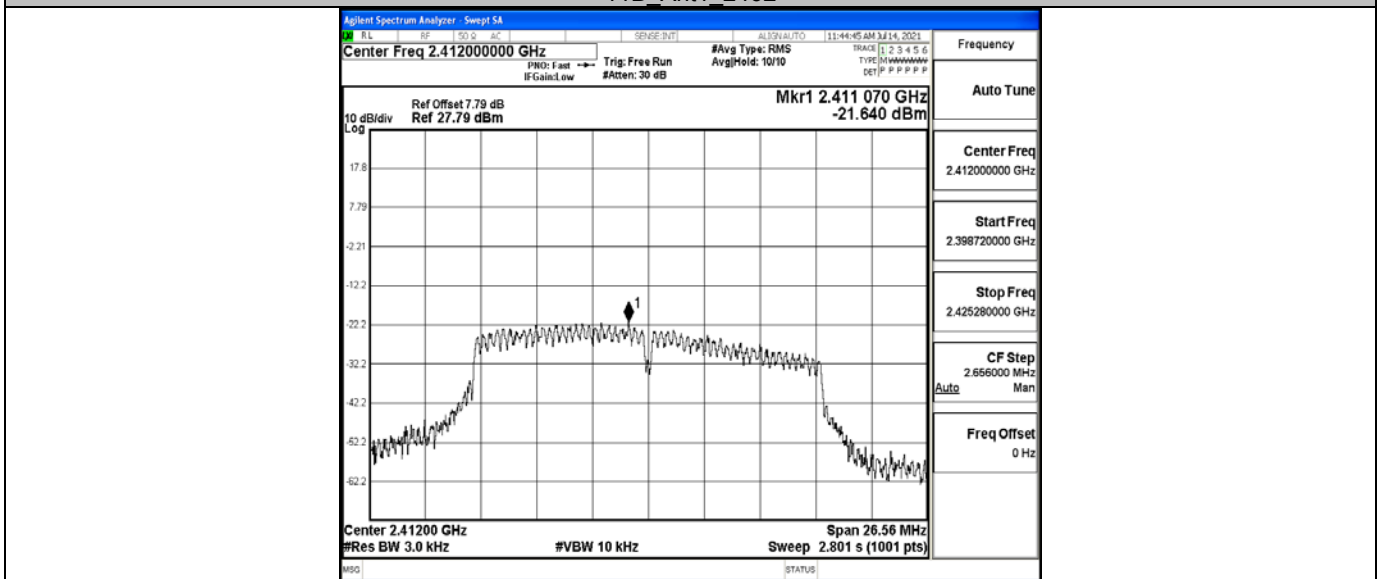




11B Ant1 2437

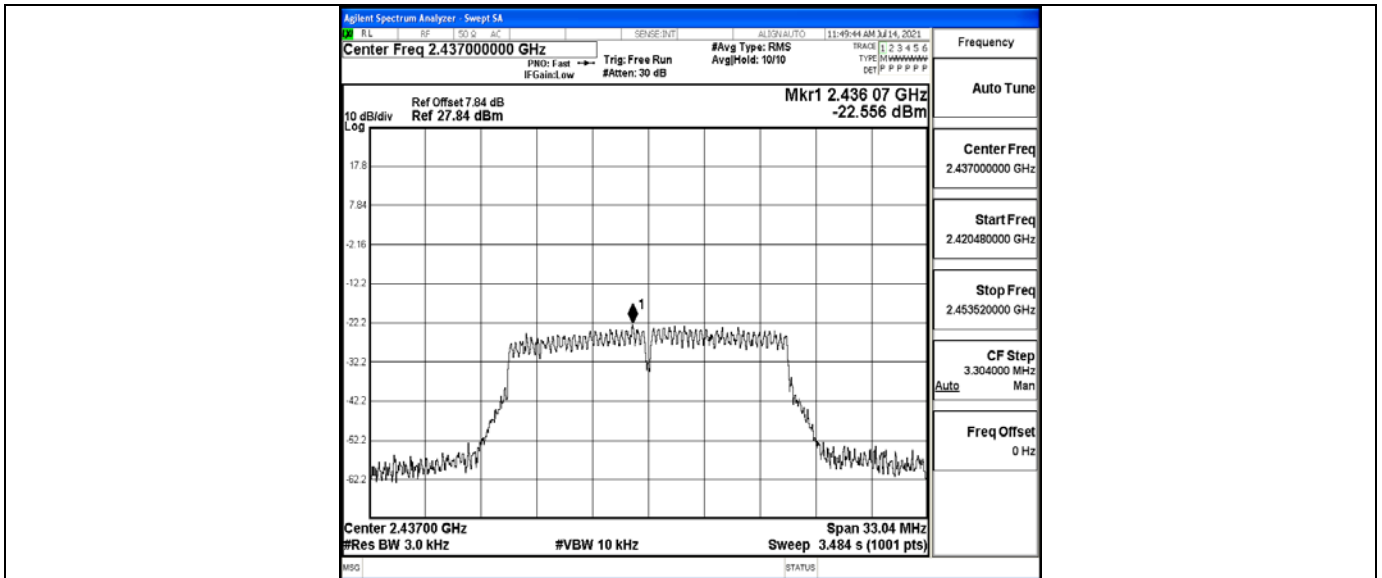


11B Ant1 2462

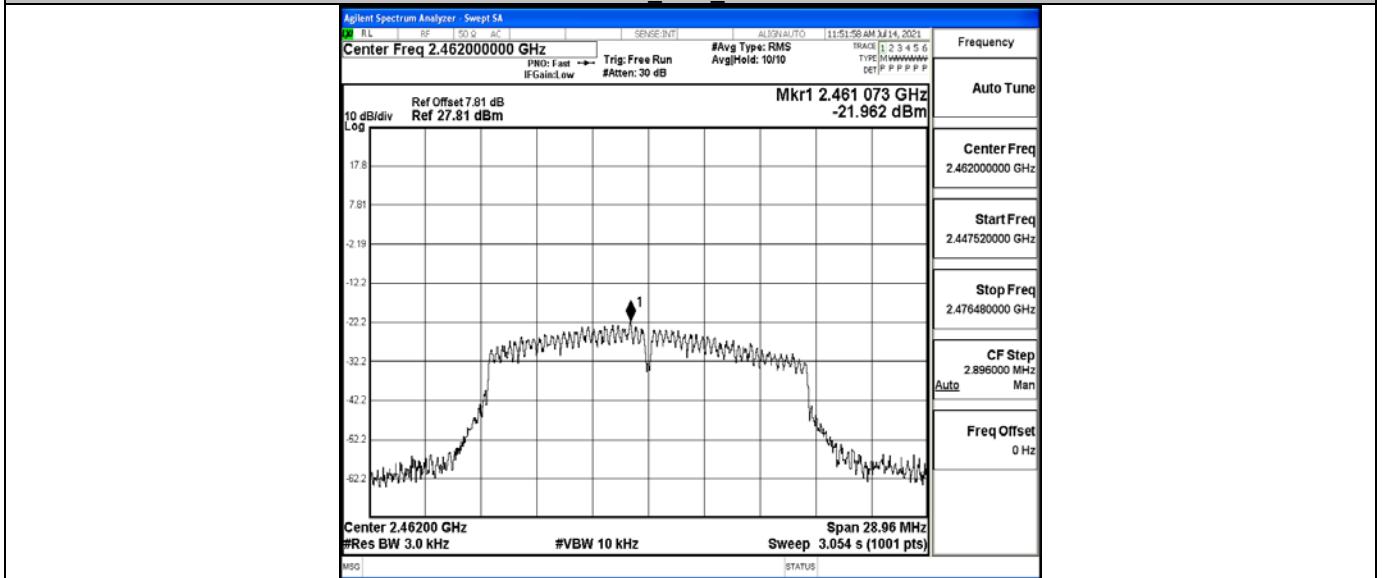


11G Ant1 2412

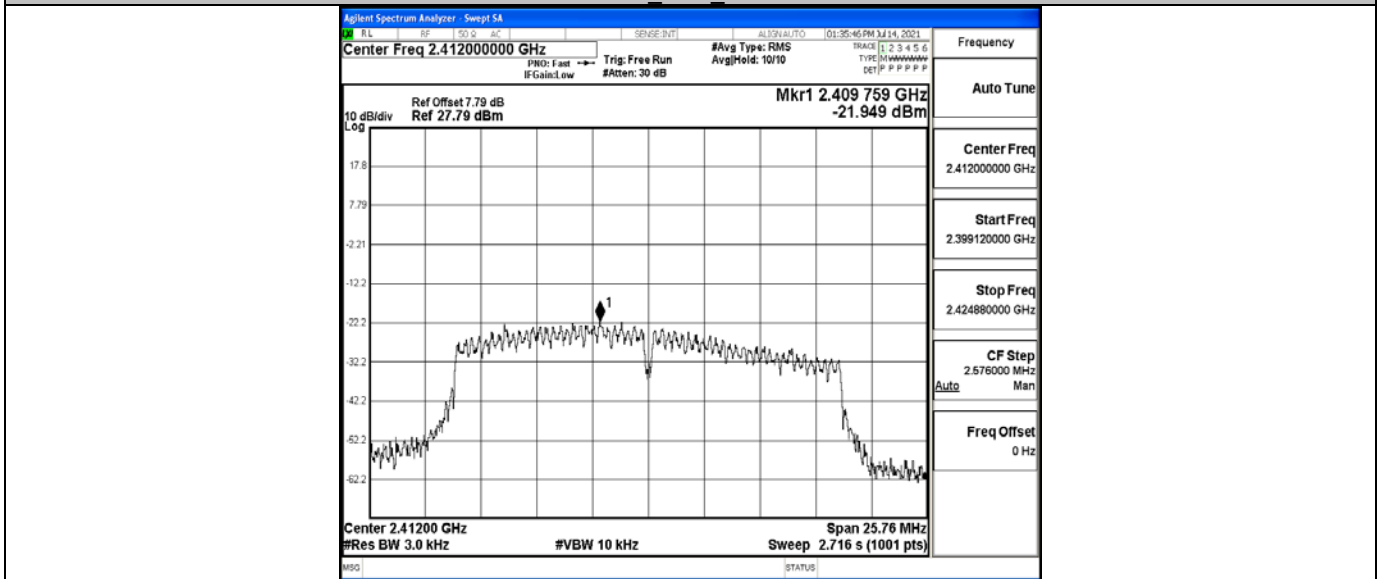




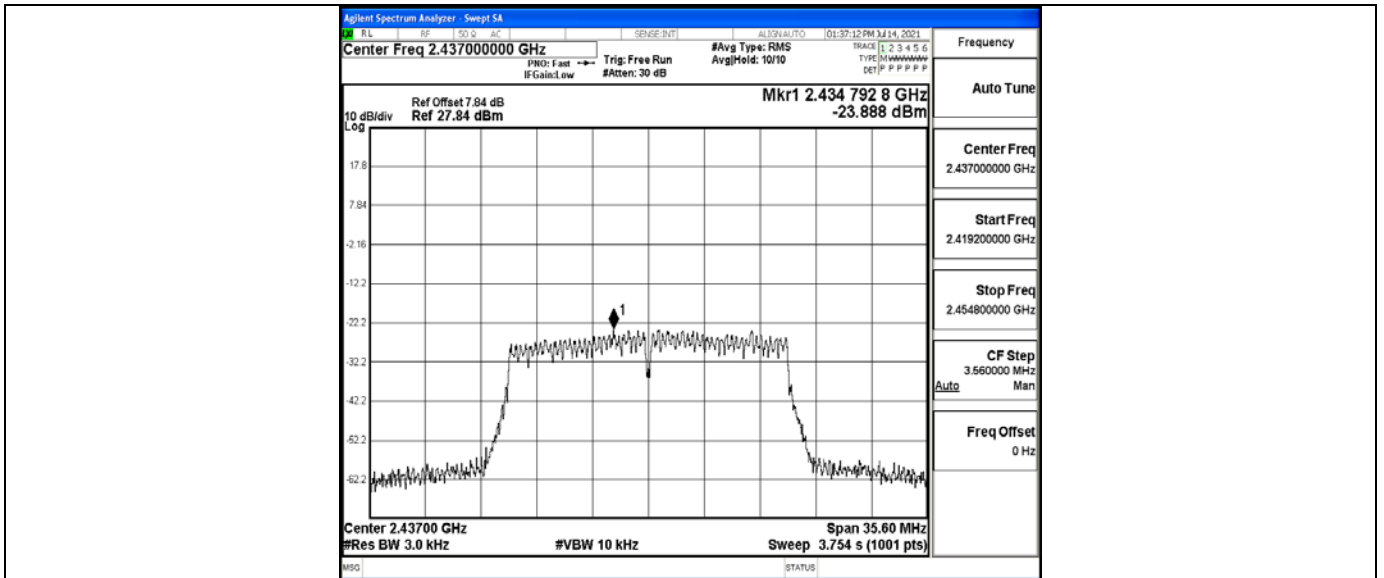
11G Ant1 2437



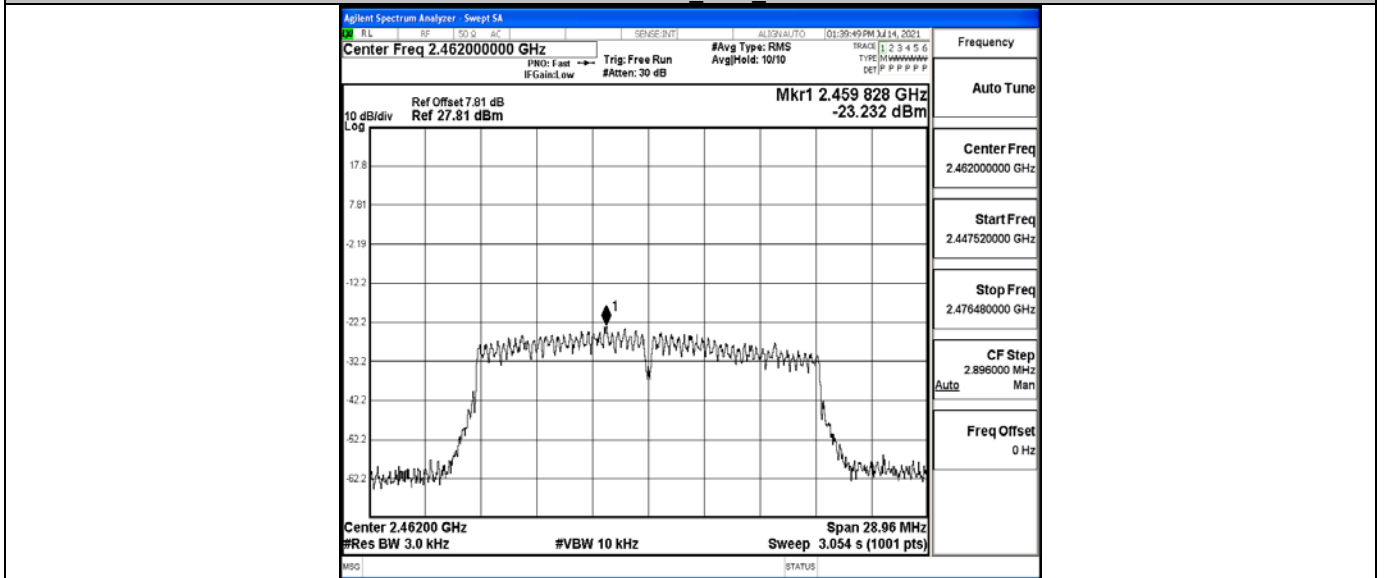
11G Ant1 2462



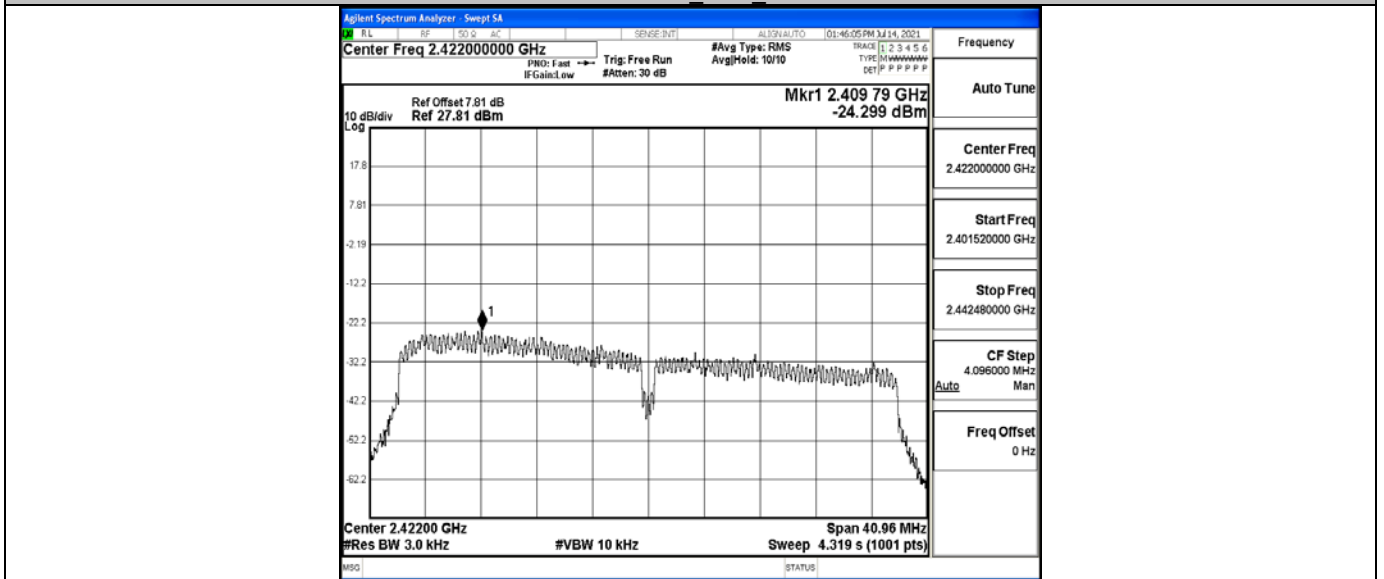
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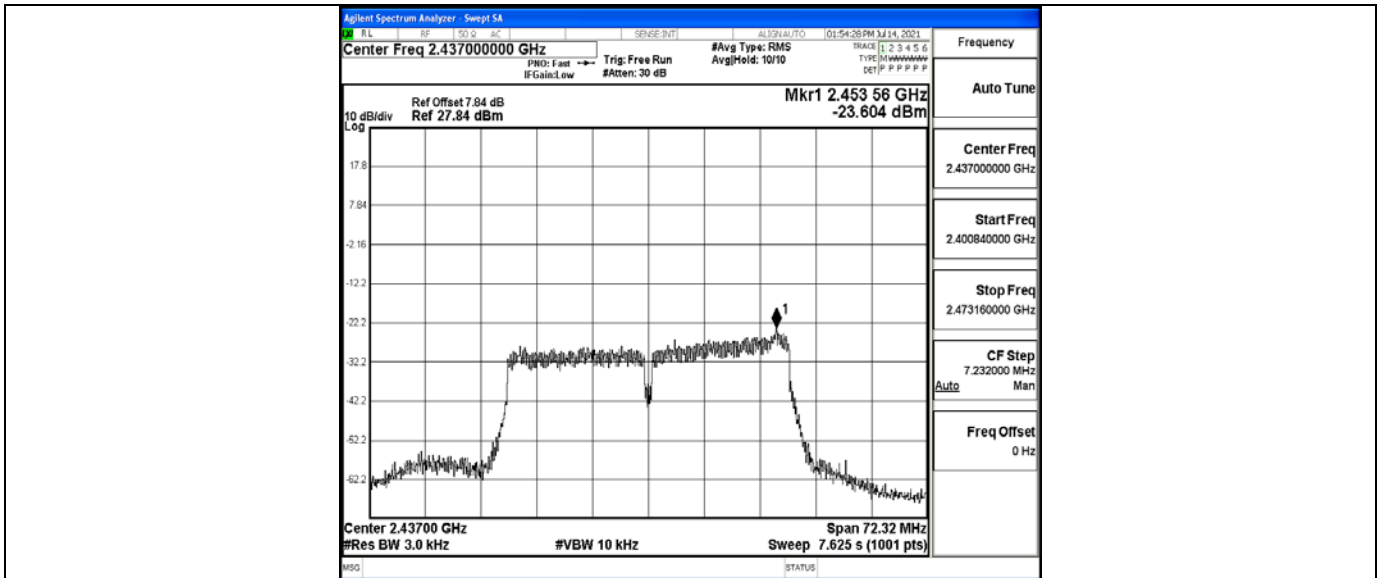
11N20SISO Ant1\_2437



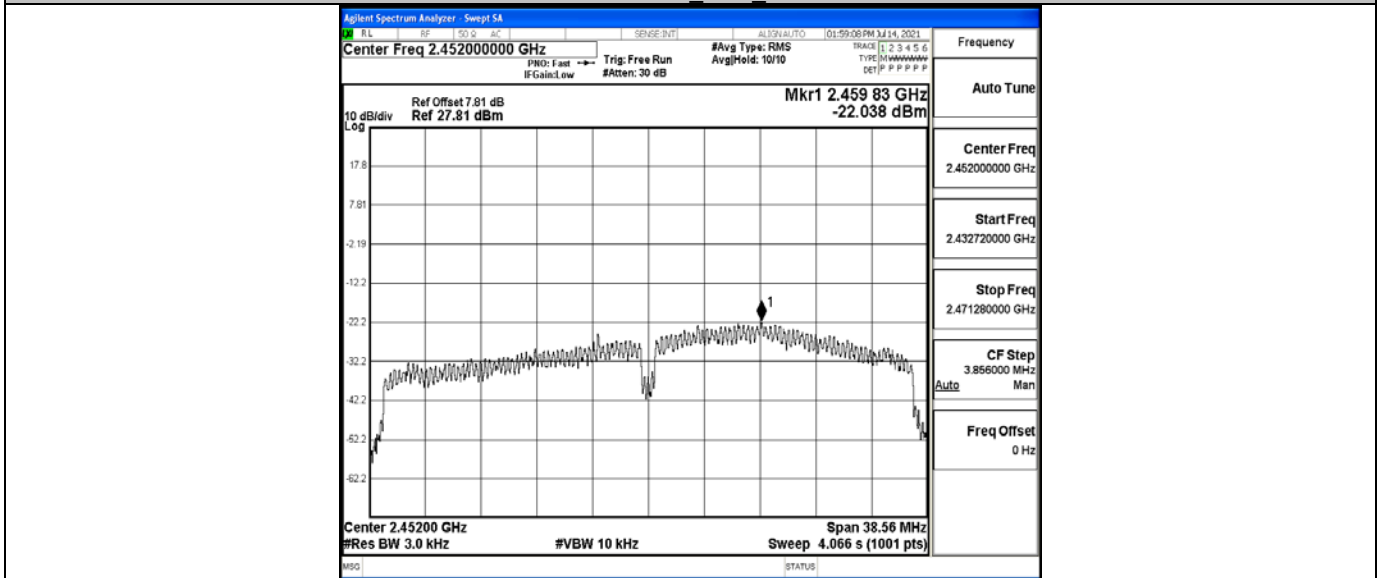
11N20SISO Ant1\_2462



11N40SISO Ant1\_2422



11N40SISO Ant1\_2437



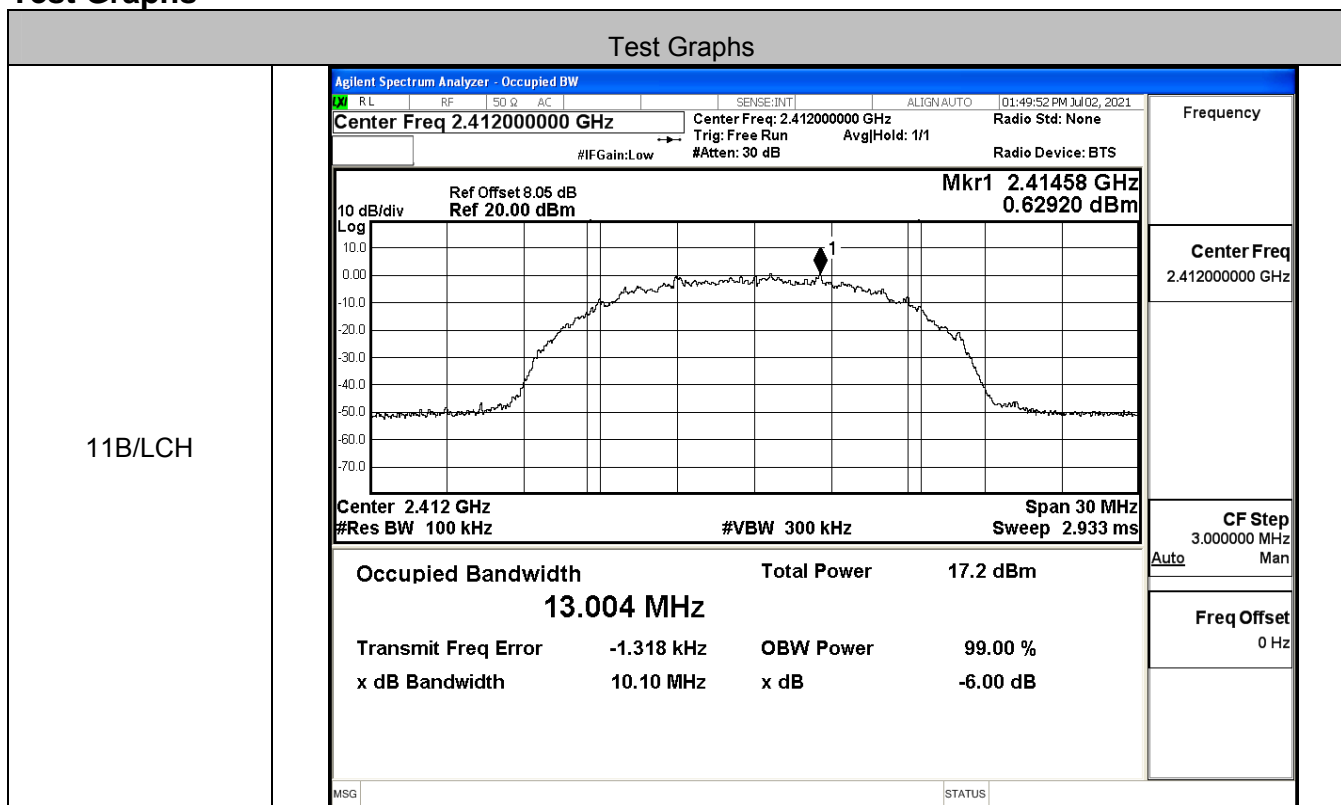
11N40SISO Ant1\_2452



### A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	10.10	≥0.5	PASS
	MCH	10.10	≥0.5	PASS
	HCH	10.11	≥0.5	PASS
11G	LCH	16.49	≥0.5	PASS
	MCH	16.48	≥0.5	PASS
	HCH	16.48	≥0.5	PASS
11N20SISO	LCH	17.62	≥0.5	PASS
	MCH	17.61	≥0.5	PASS
	HCH	17.63	≥0.5	PASS
11N40SISO	LCH	36.48	≥0.5	PASS
	MCH	36.48	≥0.5	PASS
	HCH	36.50	≥0.5	PASS

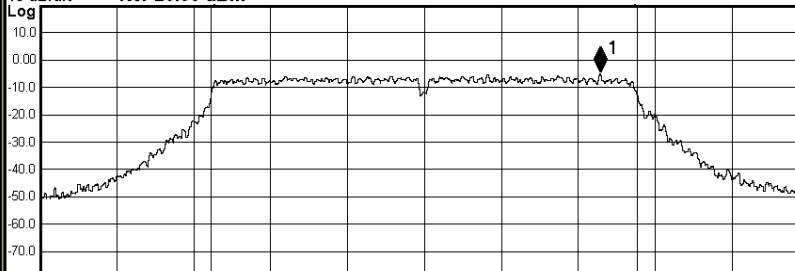
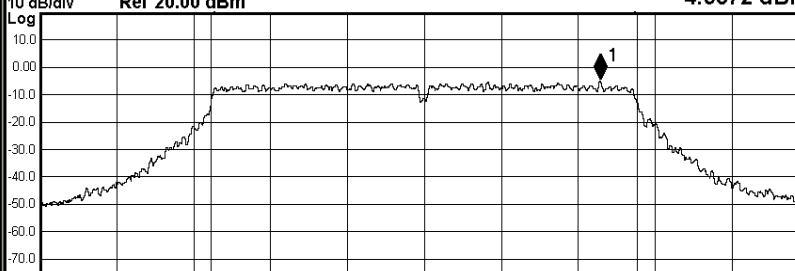
### Test Graphs



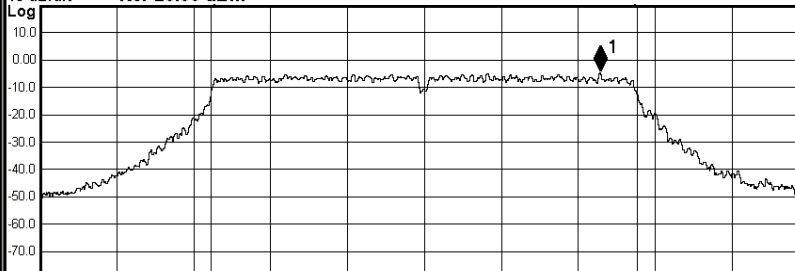
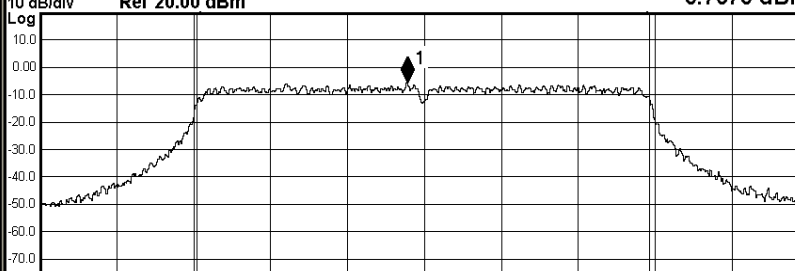


<p>11B/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq <b>2.43700000 GHz</b>      Center Freq: 2.43700000 GHz      Radio Std: None          Trig: Free Run      Avg Hold: 1/1          #IFGain:Low      #Atten: 30 dB      Radio Device: BTS</p> <p>10 dB/div      Ref Offset 8.05 dB      Mkr1 <b>2.43763 GHz</b>          Ref 20.00 dBm      <b>0.59357 dBm</b></p> <p>Center <b>2.437 GHz</b>      Span <b>30 MHz</b>          #Res BW <b>100 kHz</b>      #VBW <b>300 kHz</b>      Sweep <b>2.933 ms</b></p> <p><b>Occupied Bandwidth</b>      Total Power      <b>17.2 dBm</b>  <b>13.008 MHz</b></p> <p>Transmit Freq Error      -5.555 kHz      OBW Power      99.00 %          x dB Bandwidth      10.10 MHz      x dB      -6.00 dB</p> <p>MSG      STATUS</p>	<p>Frequency</p> <p>Center Freq 2.43700000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
	<p>11B/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq <b>2.46200000 GHz</b>      Center Freq: 2.46200000 GHz      Radio Std: None          Trig: Free Run      Avg Hold: 1/1          #IFGain:Low      #Atten: 30 dB      Radio Device: BTS</p> <p>10 dB/div      Ref Offset 8.05 dB      Mkr1 <b>2.46455 GHz</b>          Ref 20.00 dBm      <b>0.49375 dBm</b></p> <p>Center <b>2.462 GHz</b>      Span <b>30 MHz</b>          #Res BW <b>100 kHz</b>      #VBW <b>300 kHz</b>      Sweep <b>2.933 ms</b></p> <p><b>Occupied Bandwidth</b>      Total Power      <b>17.3 dBm</b>  <b>13.008 MHz</b></p> <p>Transmit Freq Error      -24.961 kHz      OBW Power      99.00 %          x dB Bandwidth      10.11 MHz      x dB      -6.00 dB</p> <p>MSG      STATUS</p>



<p>11G/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF SO Ω AC SENSE:INT ALIGN AUTO 02:10:13 PM Jul02, 2021</p> <p><b>Center Freq 2.41200000 GHz</b> Center Freq: 2.41200000 GHz Radio Std: None          Trig: Free Run Avg Hold: 1/1          #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.05 dB <b>Mkr1 2.41884 GHz</b>          Ref 20.00 dBm <b>-4.9852 dBm</b></p>  <p>Center 2.412 GHz Span 30 MHz          #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p><b>Occupied Bandwidth 16.550 MHz</b> Total Power 14.6 dBm</p> <p>Transmit Freq Error 11.590 kHz OBW Power 99.00 %          x dB Bandwidth 16.49 MHz x dB -6.00 dB</p> <p>MSG STATUS</p>	<p>Frequency</p> <p>Center Freq 2.41200000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
	<p>11G/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF SO Ω AC SENSE:INT ALIGN AUTO 02:12:41 PM Jul02, 2021</p> <p><b>Center Freq 2.43700000 GHz</b> Center Freq: 2.43700000 GHz Radio Std: None          Trig: Free Run Avg Hold: 1/1          #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.05 dB <b>Mkr1 2.44384 GHz</b>          Ref 20.00 dBm <b>-4.9372 dBm</b></p>  <p>Center 2.437 GHz Span 30 MHz          #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p><b>Occupied Bandwidth 16.549 MHz</b> Total Power 14.6 dBm</p> <p>Transmit Freq Error 6.250 kHz OBW Power 99.00 %          x dB Bandwidth 16.48 MHz x dB -6.00 dB</p> <p>MSG STATUS</p>



<p>11G/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF SQ AC SENSE:INT ALIGN AUTO 02:14:30 PM Jul 02, 2021</p> <p>Center Freq 2.46200000 GHz Center Freq: 2.46200000 GHz Radio Std: None        Trig: Free Run AvgHold: 1/1        #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.05 dB Mkr1 2.46887 GHz        Ref 20.00 dBm -4.5666 dBm</p>  <p>Center 2.462 GHz Span 30 MHz        #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 15.1 dBm  <b>16.544 MHz</b></p> <p>Transmit Freq Error 55 Hz OBW Power 99.00 %        x dB Bandwidth 16.48 MHz x dB -6.00 dB</p> <p>MSG STATUS</p>	<p>Frequency</p> <p>Center Freq 2.46200000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
<p>11N20SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>RL RF SQ AC SENSE:INT ALIGN AUTO 02:18:00 PM Jul 02, 2021</p> <p>Center Freq 2.41200000 GHz Center Freq: 2.41200000 GHz Radio Std: None        Trig: Free Run AvgHold: 1/1        #IFGain:Low #Atten: 30 dB Radio Device: BTS</p> <p>10 dB/div Ref Offset 8.05 dB Mkr1 2.41134 GHz        Ref 20.00 dBm -5.7675 dBm</p>  <p>Center 2.412 GHz Span 30 MHz        #Res BW 100 kHz #VBW 300 kHz Sweep 2.933 ms</p> <p>Occupied Bandwidth Total Power 14.1 dBm  <b>17.538 MHz</b></p> <p>Transmit Freq Error -18.624 kHz OBW Power 99.00 %        x dB Bandwidth 17.62 MHz x dB -6.00 dB</p> <p>MSG STATUS</p>	<p>Frequency</p> <p>Center Freq 2.41200000 GHz</p> <p>CF Step 3.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>

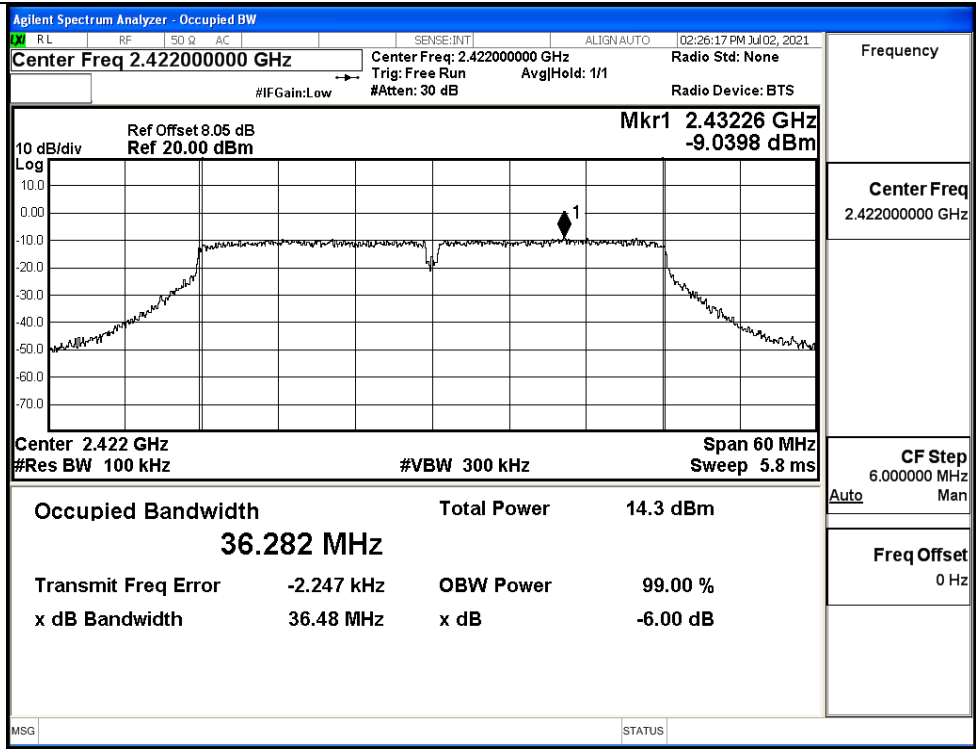


<p>11N20SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Mkr1 2.43634 GHz -5.6992 dBm</p> <p>Center 2.437 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth <b>17.537 MHz</b></p> <p>Total Power <b>14.2 dBm</b></p> <p>Transmit Freq Error -19.036 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.61 MHz</p> <p>x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq 2.43700000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>
<p>11N20SISO/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.46200000 GHz</p> <p>Mkr1 2.4566 GHz -5.3884 dBm</p> <p>Center 2.462 GHz #Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz Sweep 2.933 ms</p> <p>Occupied Bandwidth <b>17.544 MHz</b></p> <p>Total Power <b>14.7 dBm</b></p> <p>Transmit Freq Error -20.045 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 17.63 MHz</p> <p>x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq 2.46200000 GHz</p> <p>CF Step 3.000000 MHz</p> <p>Freq Offset 0 Hz</p>

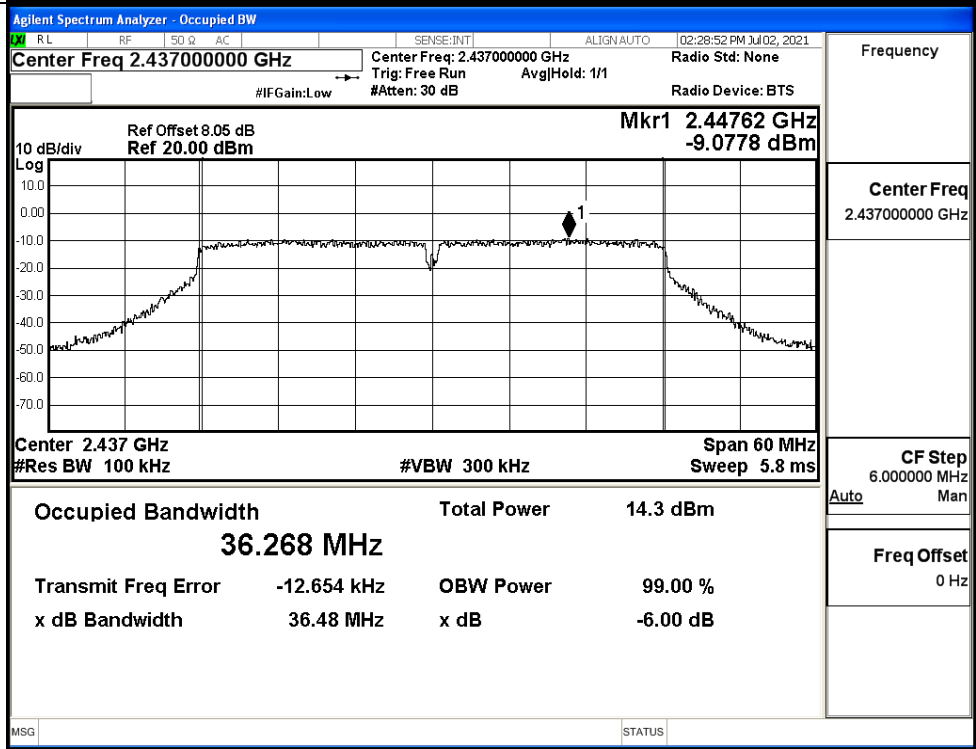


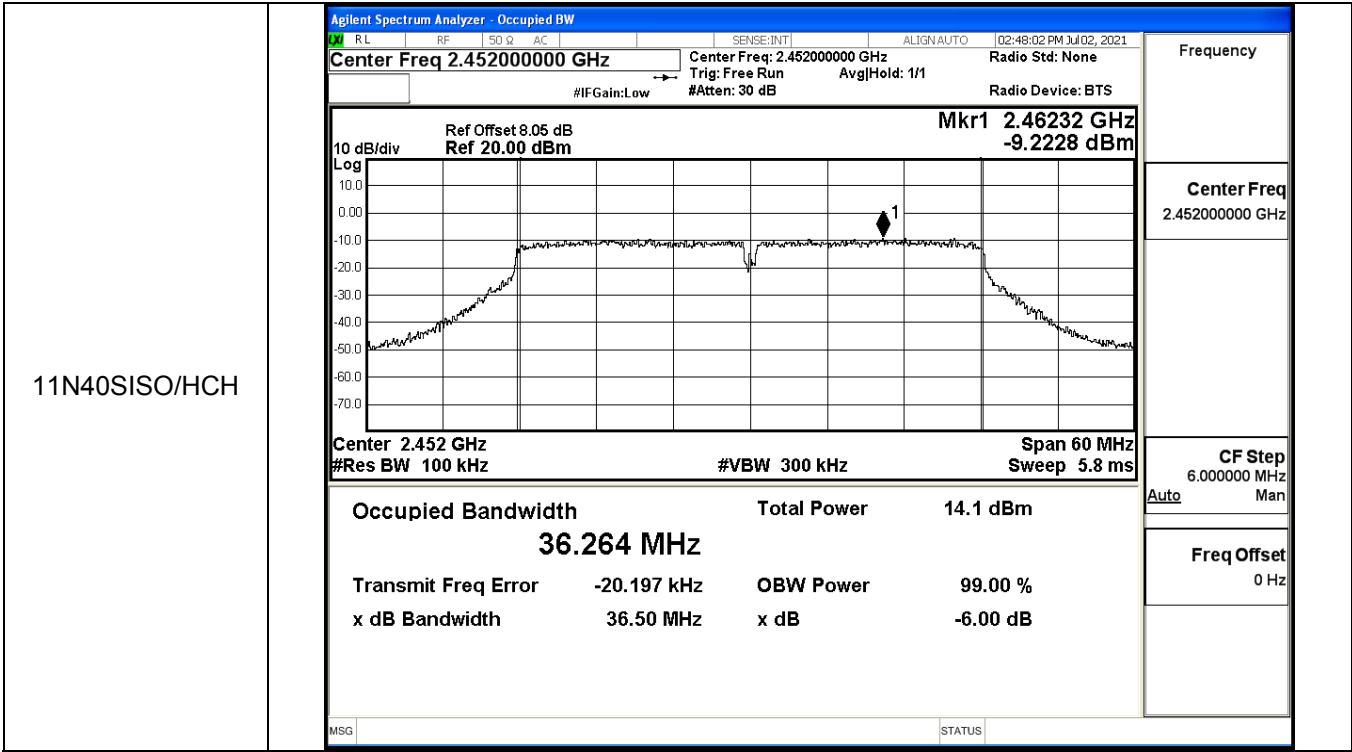


11N40SISO/LCH



11N40SISO/MCH







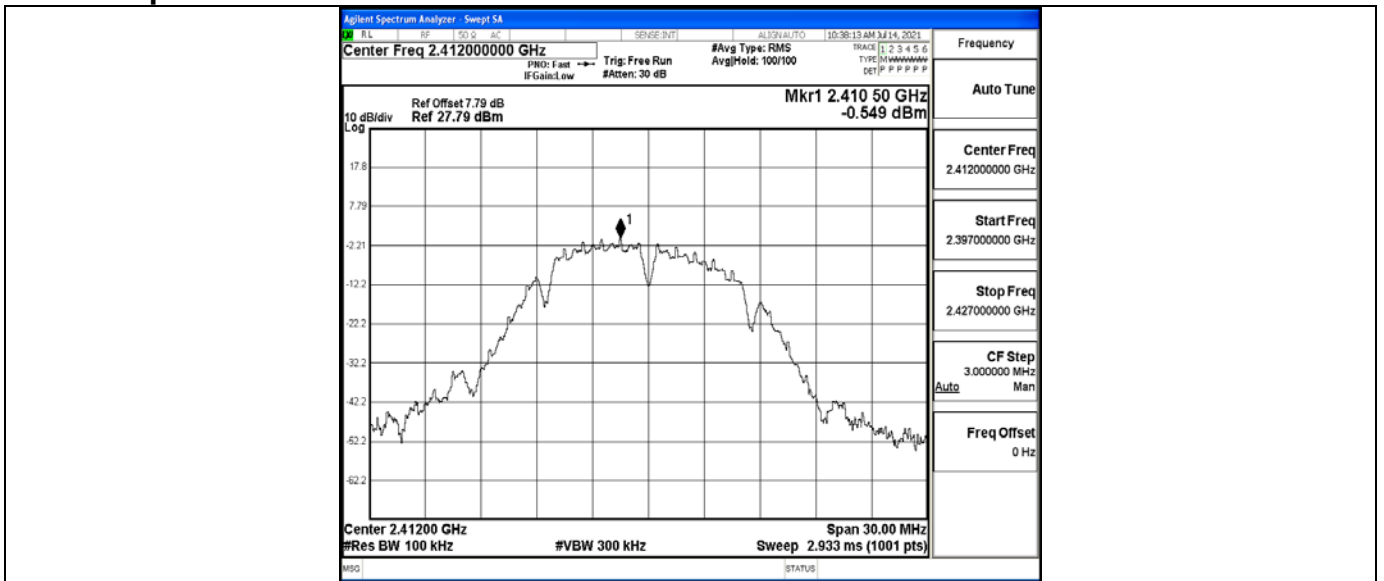
## A.5 RF Conducted Spurious Emissions

TestMode	Antenna	Channel	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	-0.55	-0.55	---	PASS
			30~1000	-0.55	-59.89	≤-20.55	PASS
			1000~26500	-0.55	-47.13	≤-20.55	PASS
		2437	Reference	-3.10	-3.10	---	PASS
			30~1000	-3.10	-60.89	≤-23.1	PASS
			1000~26500	-3.10	-47.05	≤-23.1	PASS
		2462	Reference	0.46	0.46	---	PASS
			30~1000	0.46	-60.4	≤-19.54	PASS
			1000~26500	0.46	-47.81	≤-19.54	PASS
11G	Ant1	2412	Reference	-4.39	-4.39	---	PASS
			30~1000	-4.39	-60.18	≤-24.39	PASS
			1000~26500	-4.39	-46.49	≤-24.39	PASS
		2437	Reference	-7.99	-7.99	---	PASS
			30~1000	-7.99	-61.58	≤-27.99	PASS
			1000~26500	-7.99	-46.72	≤-27.99	PASS
		2462	Reference	-2.90	-2.90	---	PASS
			30~1000	-2.90	-60.74	≤-22.9	PASS
			1000~26500	-2.90	-47.94	≤-22.9	PASS
11N20SISO	Ant1	2412	Reference	-4.34	-4.34	---	PASS
			30~1000	-4.34	-61.57	≤-24.34	PASS
			1000~26500	-4.34	-47.12	≤-24.34	PASS
		2437	Reference	-8.30	-8.30	---	PASS
			30~1000	-8.30	-60.62	≤-28.3	PASS
			1000~26500	-8.30	-47.53	≤-28.3	PASS
		2462	Reference	-3.18	-3.18	---	PASS
			30~1000	-3.18	-61.46	≤-23.18	PASS
			1000~26500	-3.18	-47.52	≤-23.18	PASS
11N40SISO	Ant1	2422	Reference	-11.27	-11.27	---	PASS
			30~1000	-11.27	-61.07	≤-31.27	PASS
			1000~26500	-11.27	-47.69	≤-31.27	PASS
		2437	Reference	-10.99	-10.99	---	PASS
			30~1000	-10.99	-61.09	≤-30.99	PASS
			1000~26500	-10.99	-47.81	≤-30.99	PASS
		2452	Reference	-9.10	-9.10	---	PASS

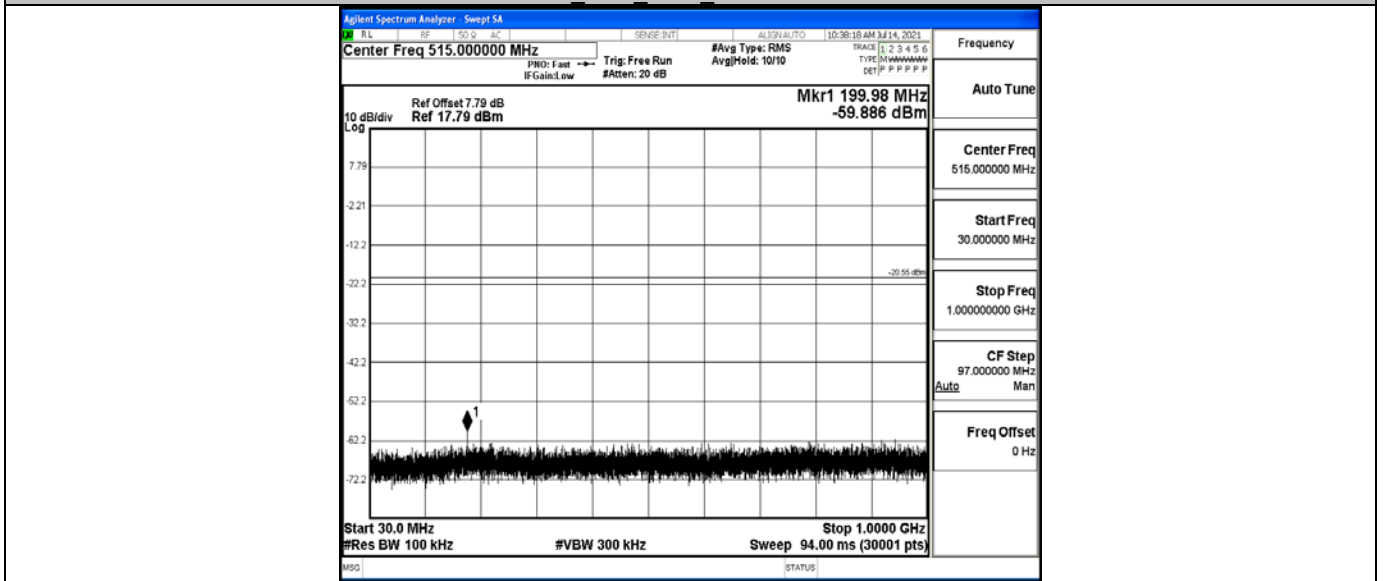


			30~1000	-9.10	-60.1	≤-29.1	PASS
			1000~26500	-9.10	-47.95	≤-29.1	PASS

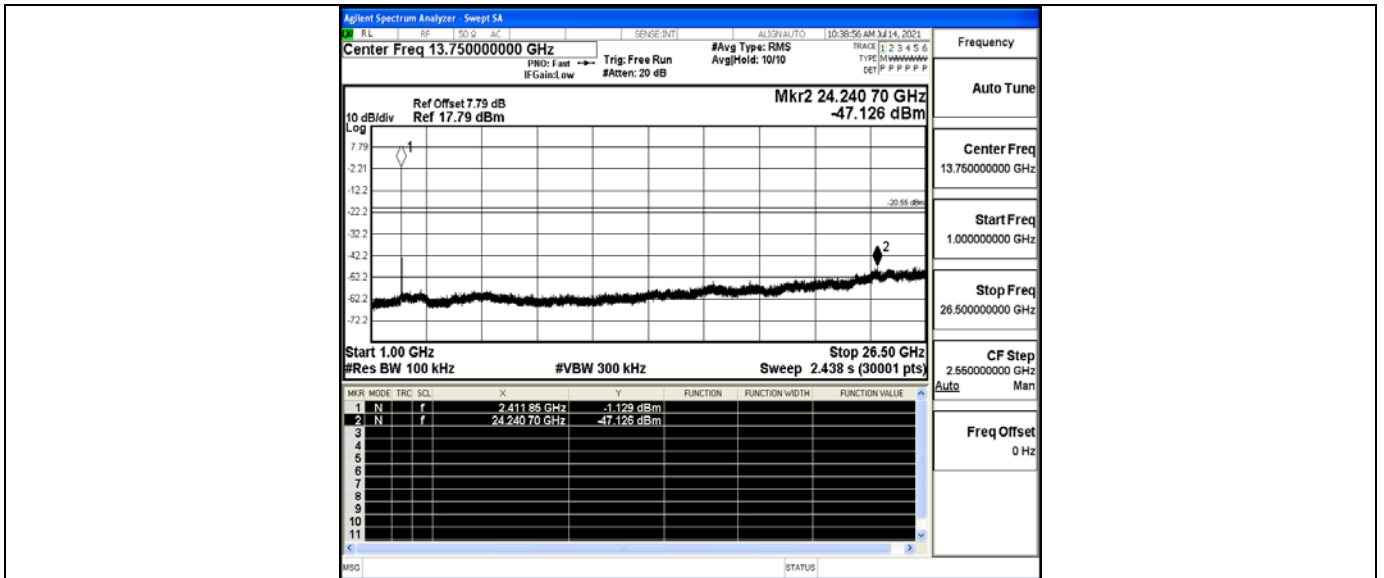
Test Graphs



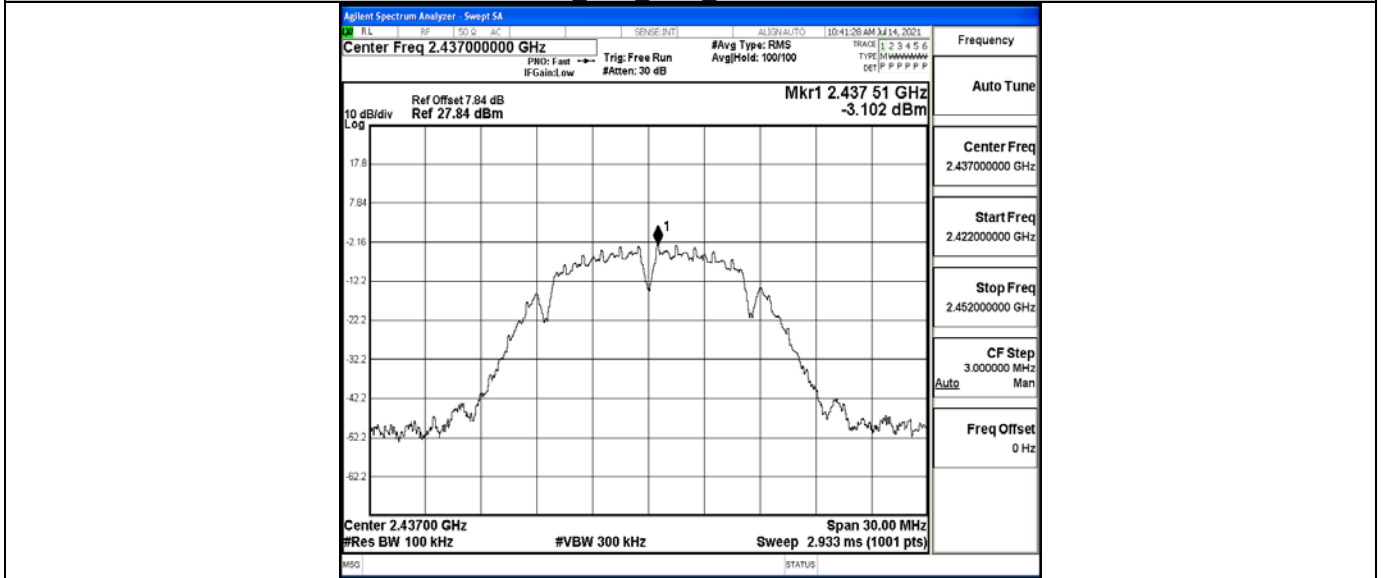
11B\_Ant1\_2412\_0~Reference



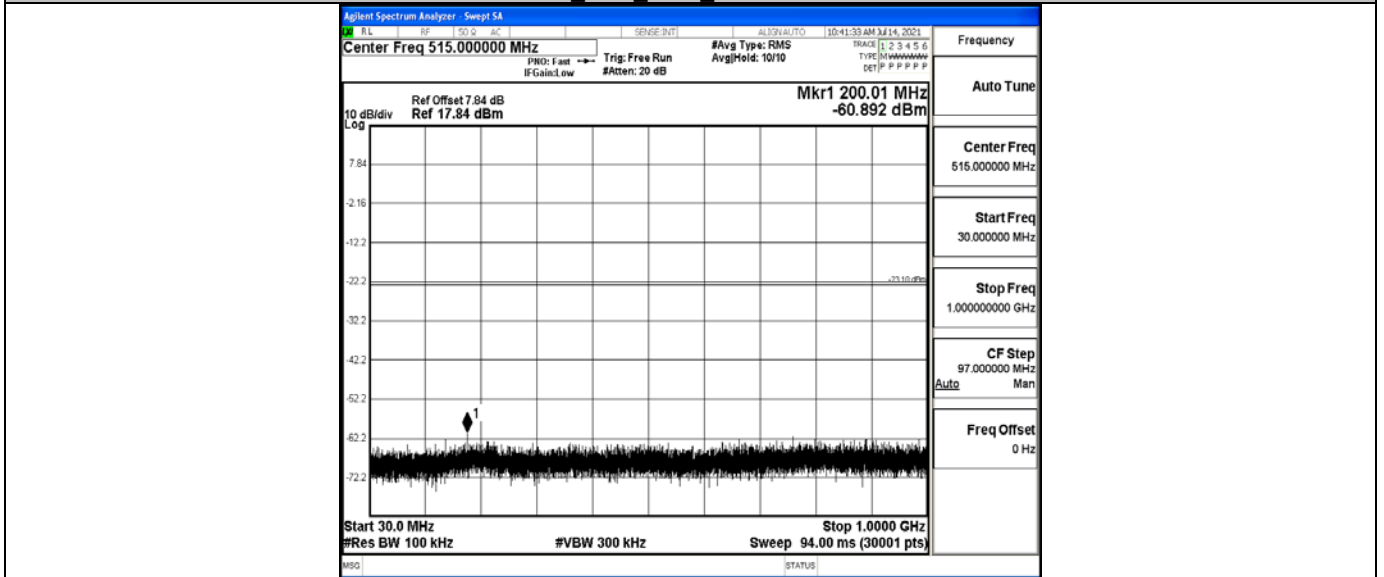
11B\_Ant1\_2412\_30~1000



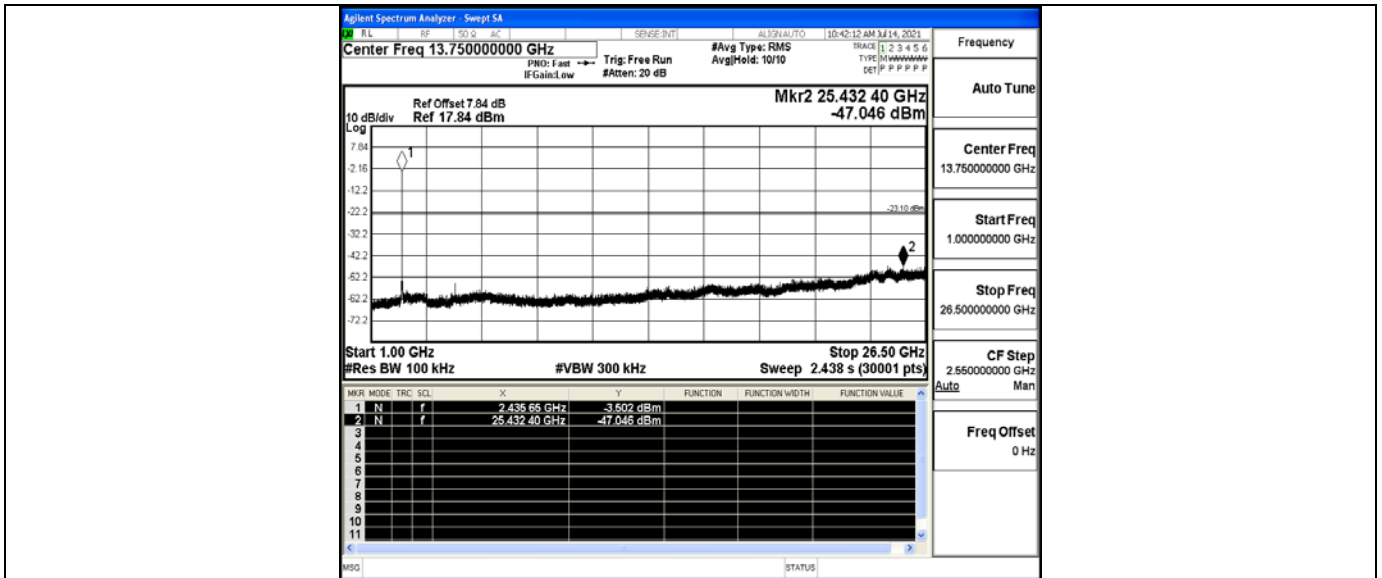
11B\_Ant1\_2412\_1000~26500



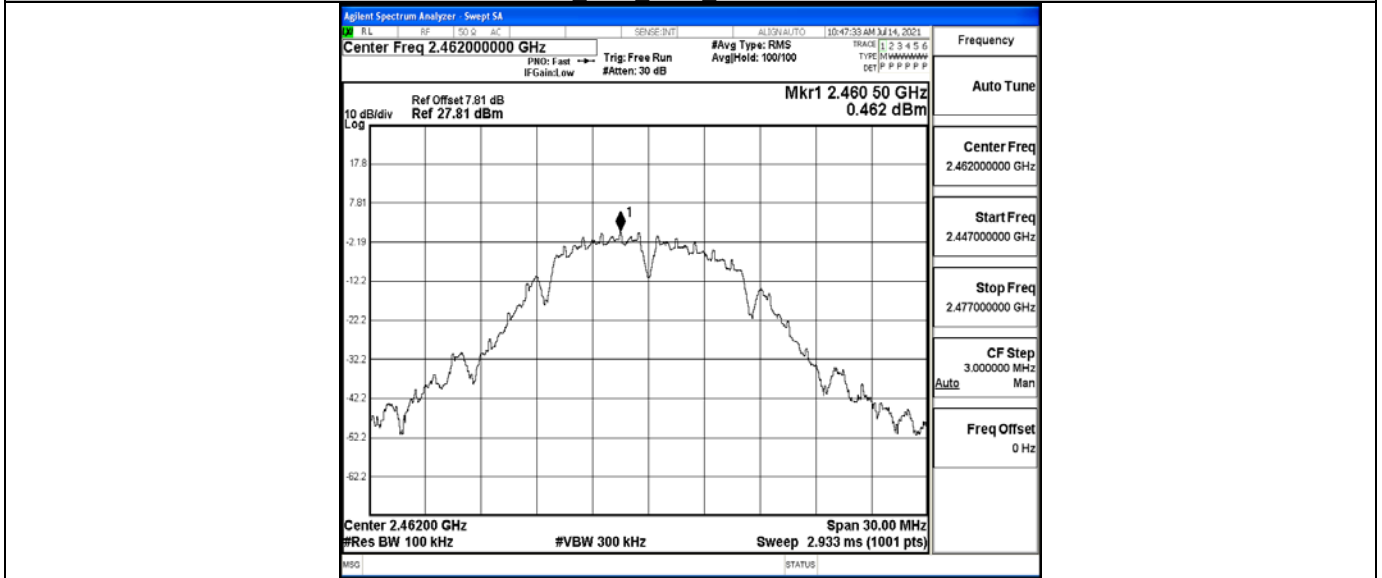
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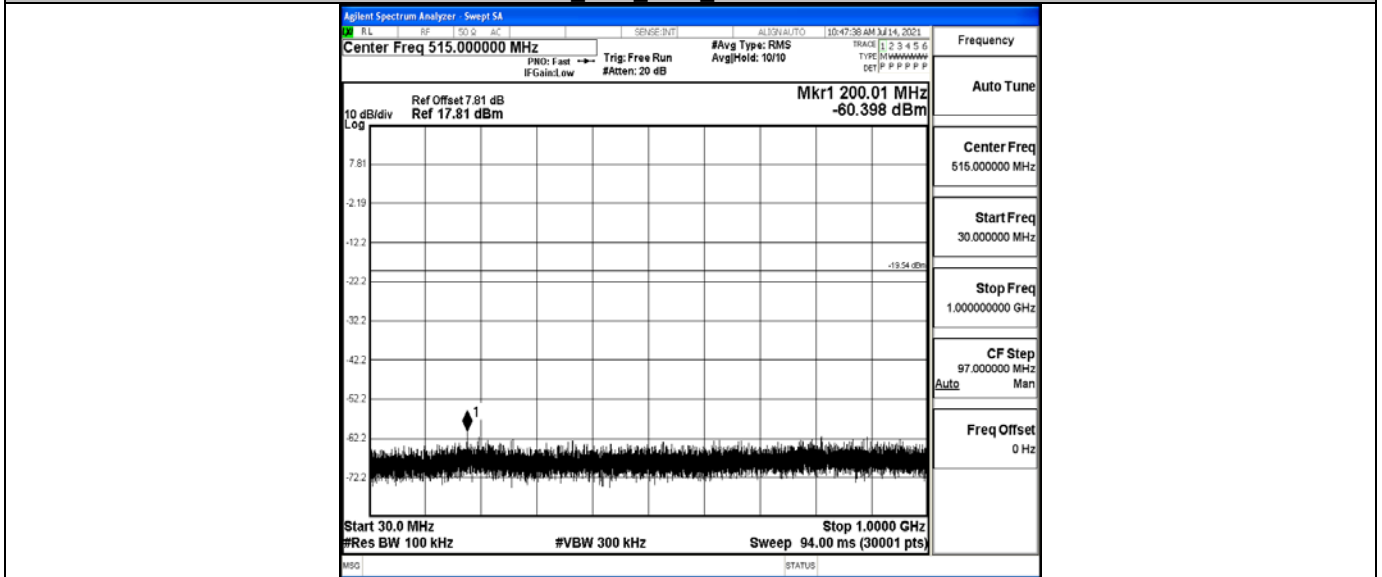
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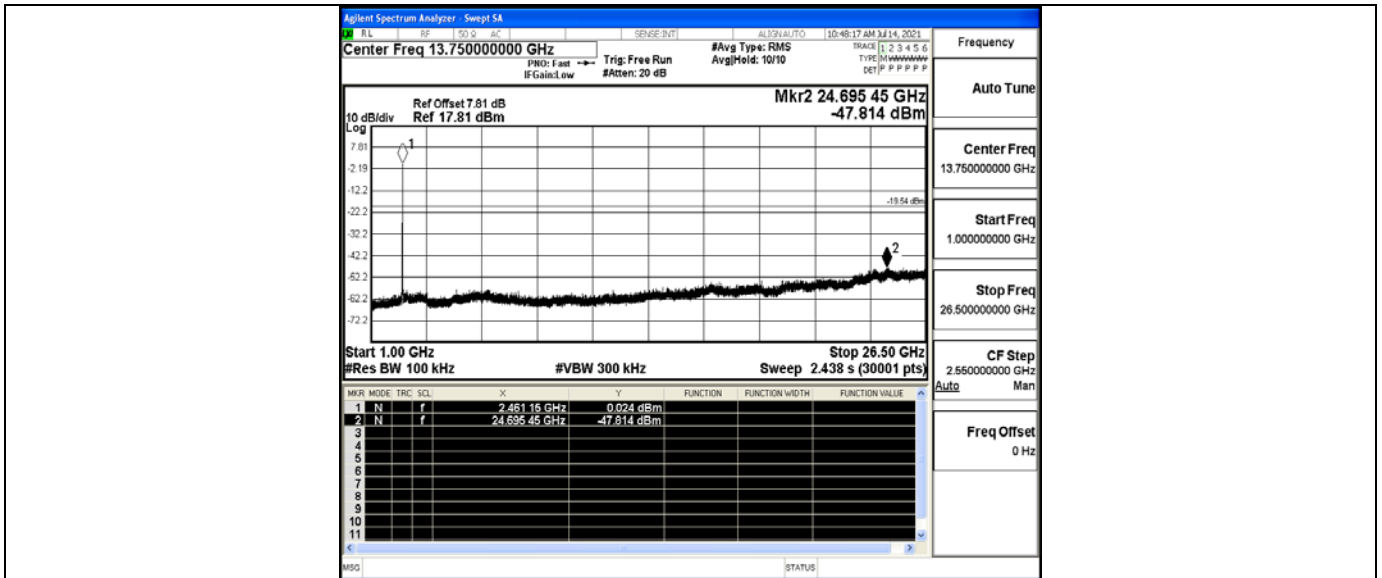
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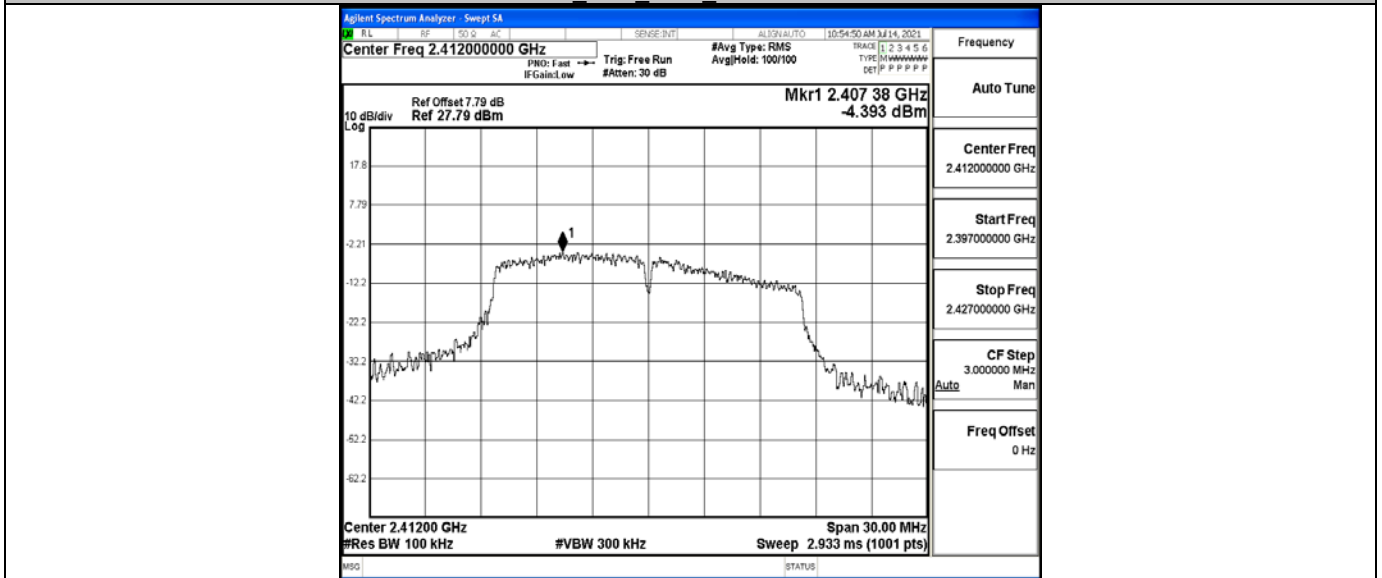
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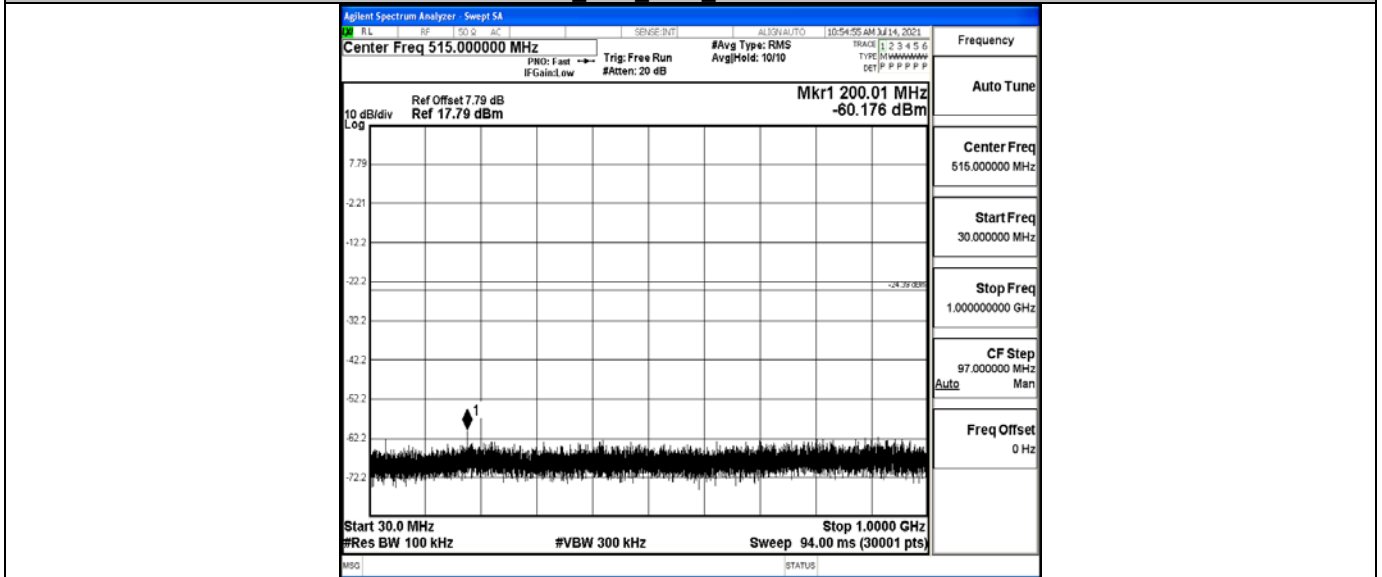
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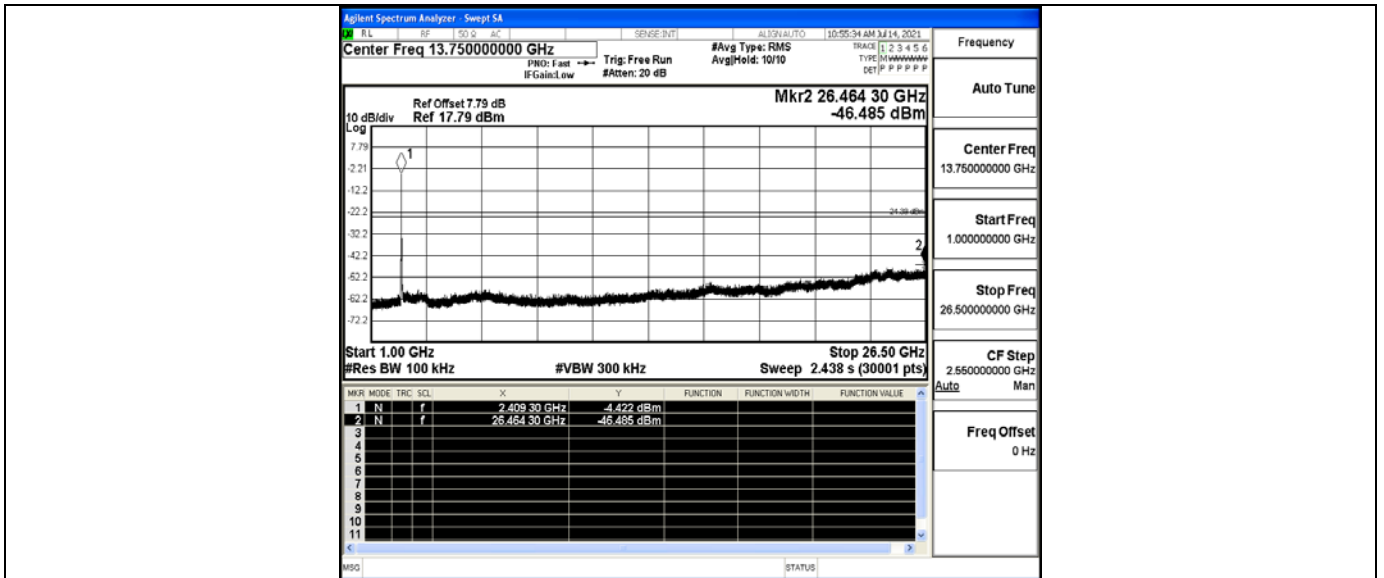
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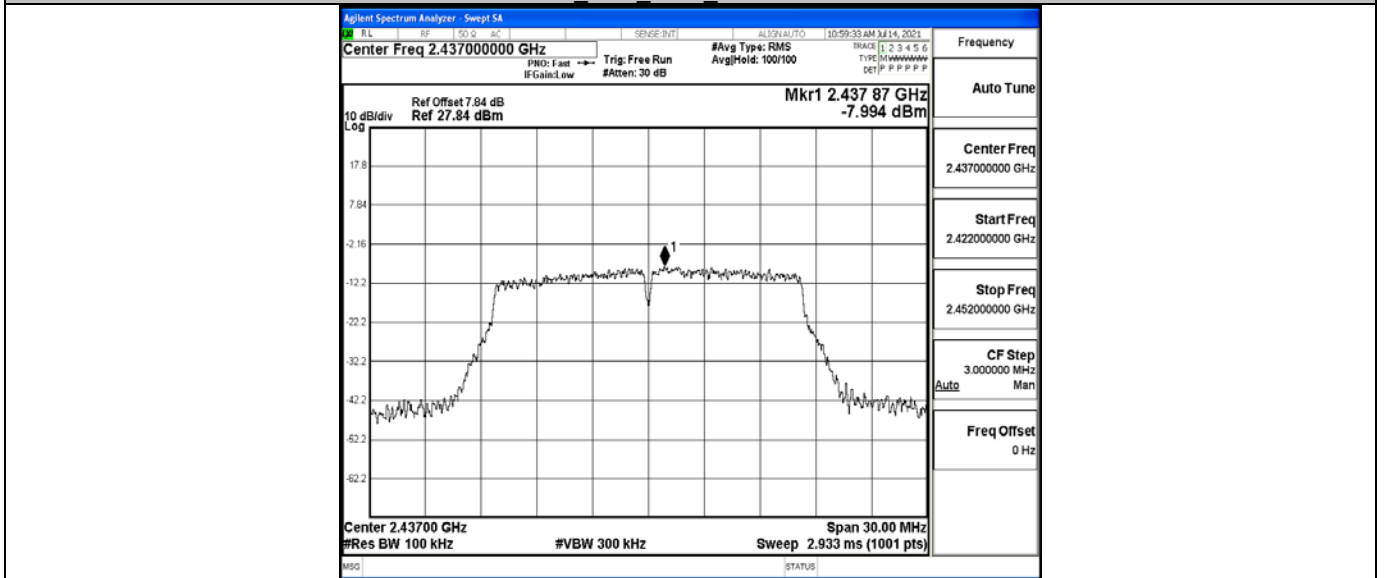
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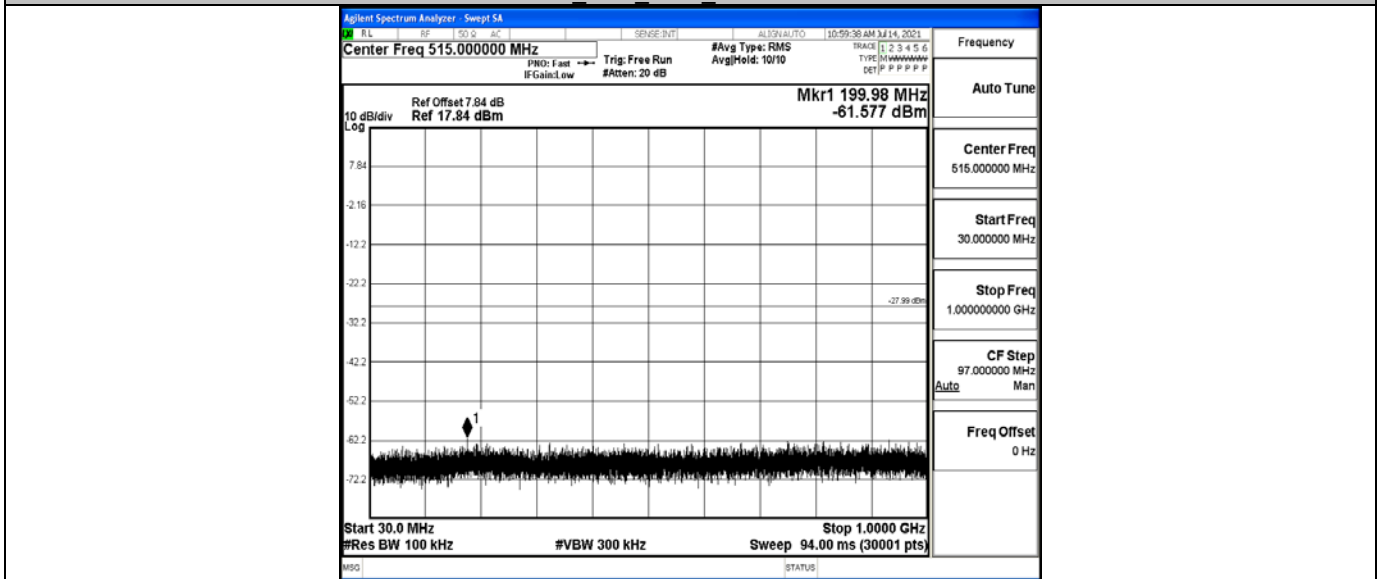
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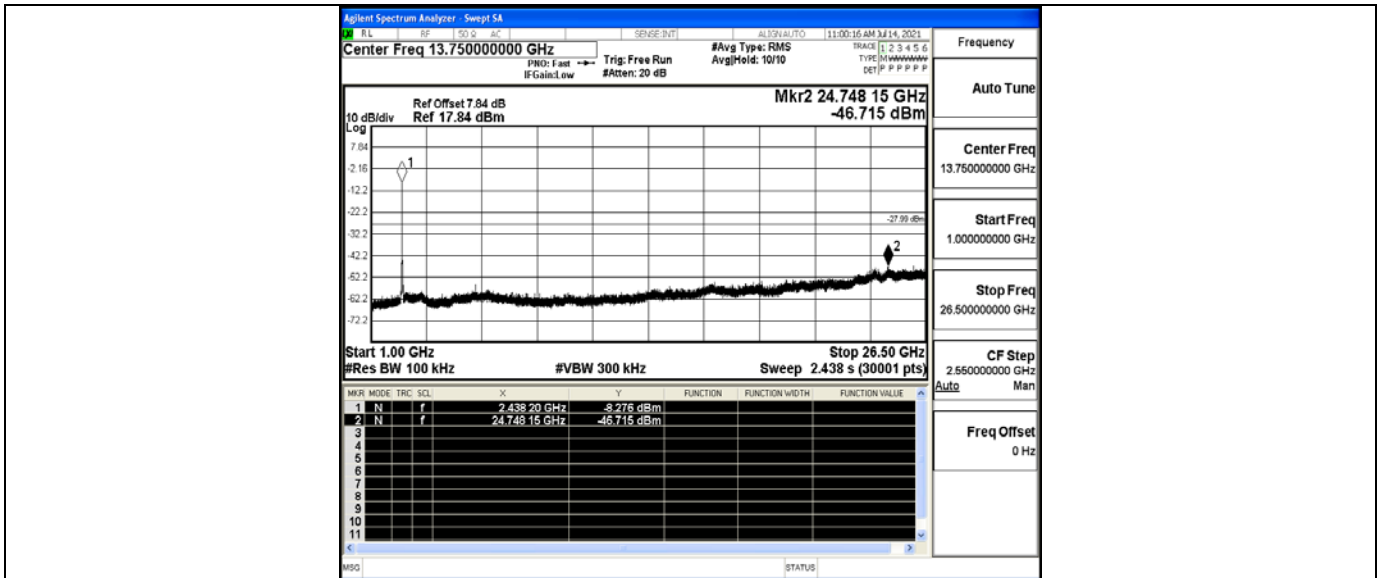


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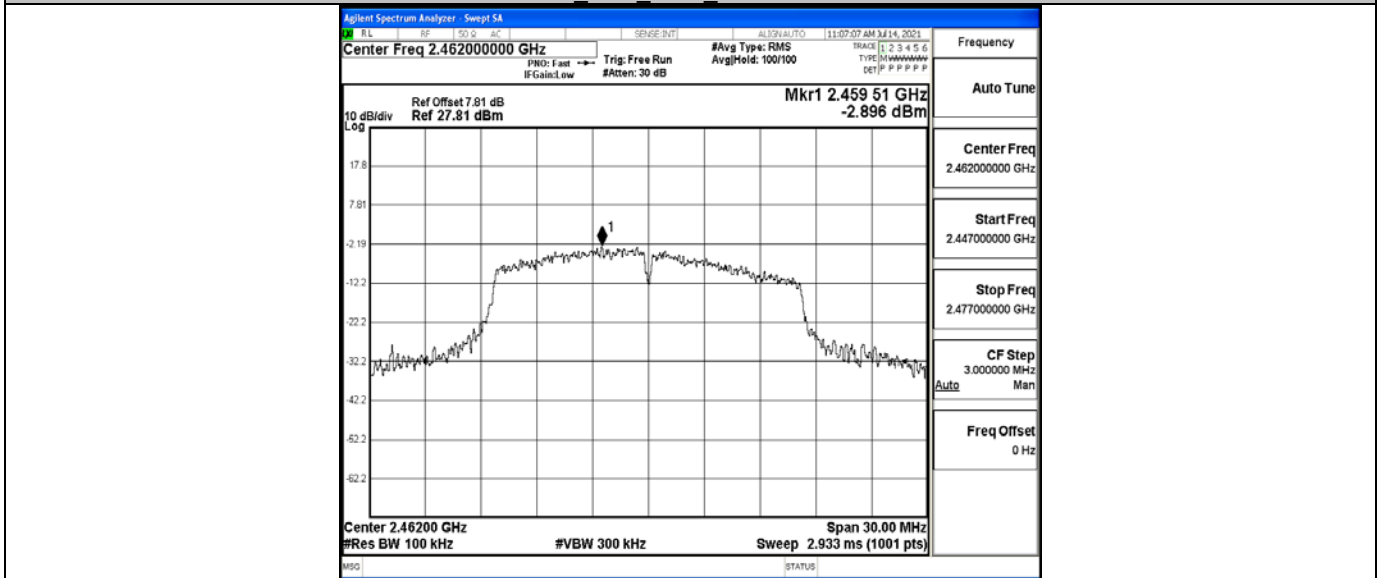


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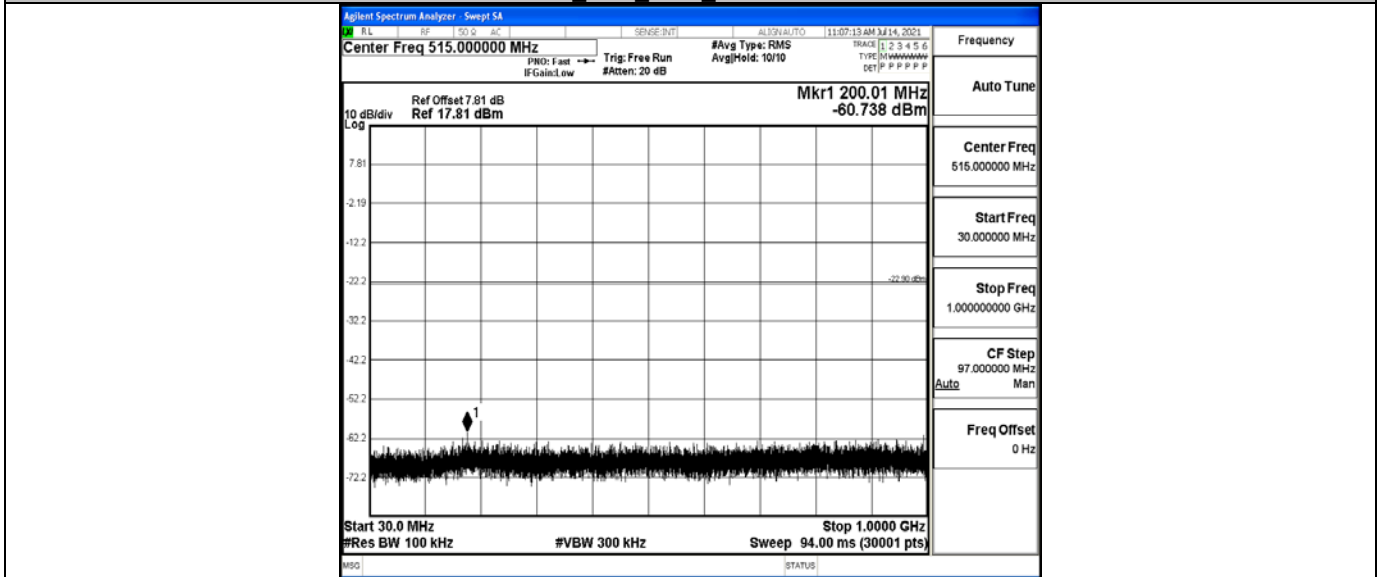




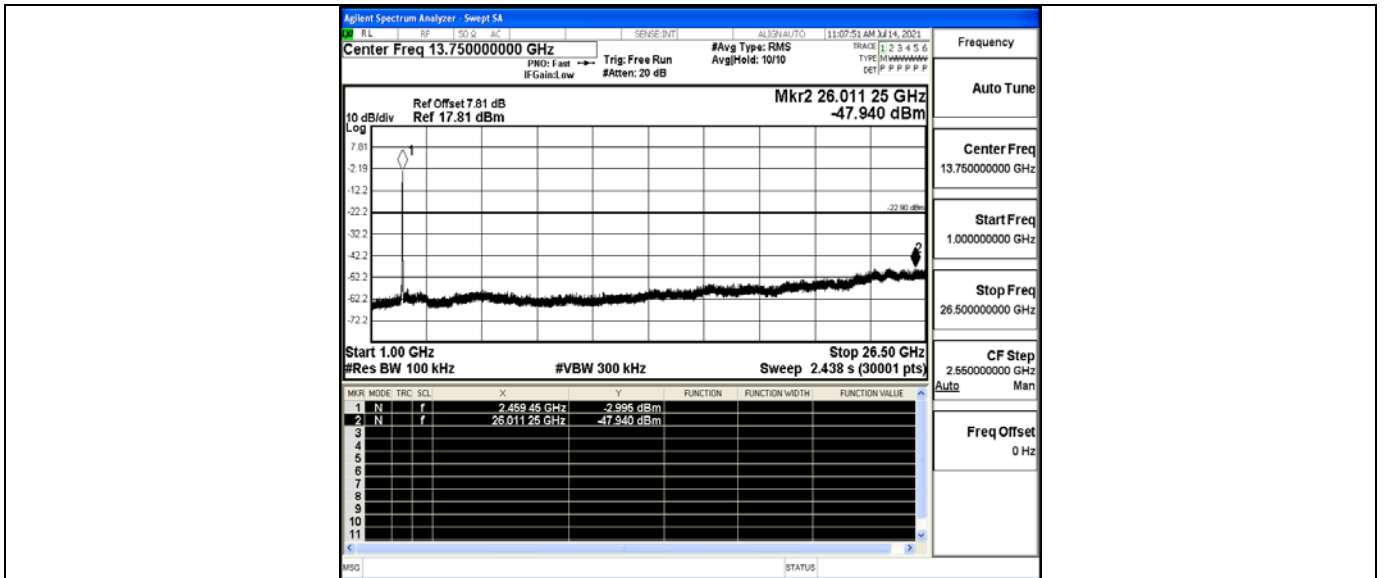
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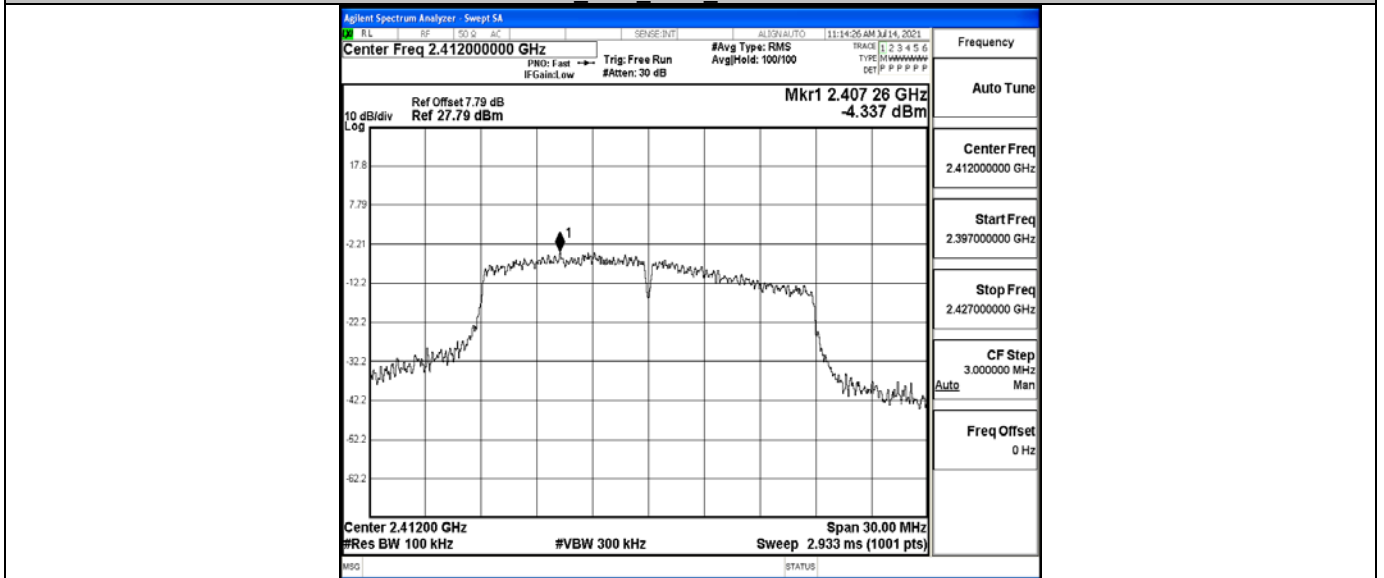
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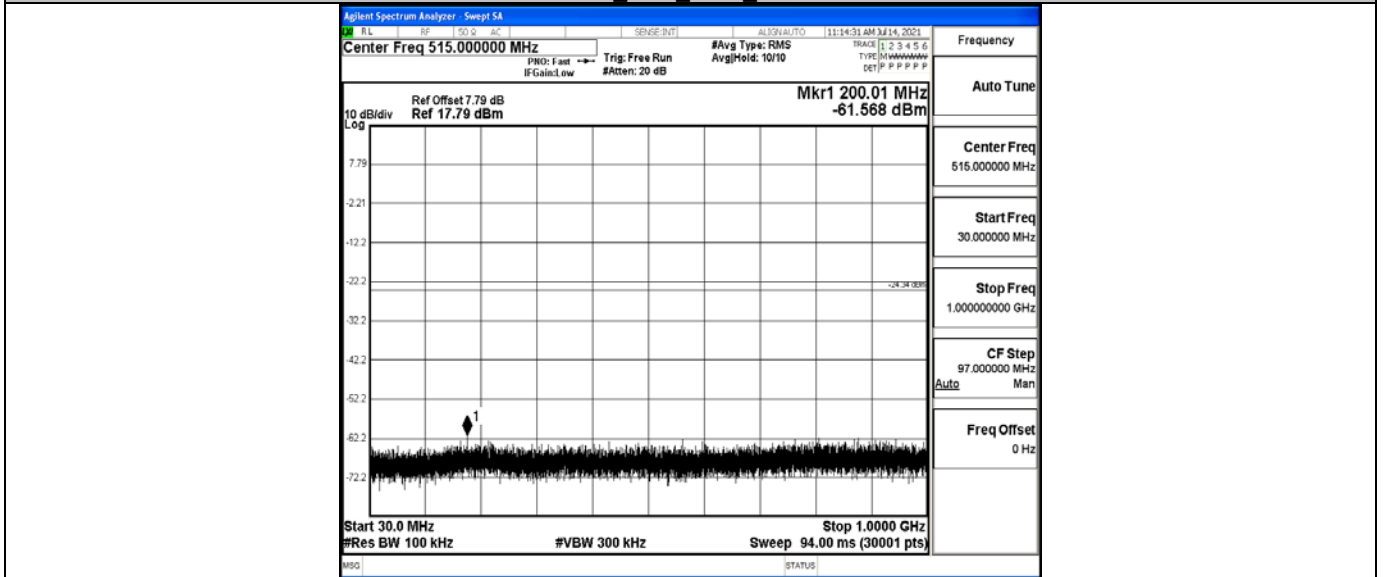
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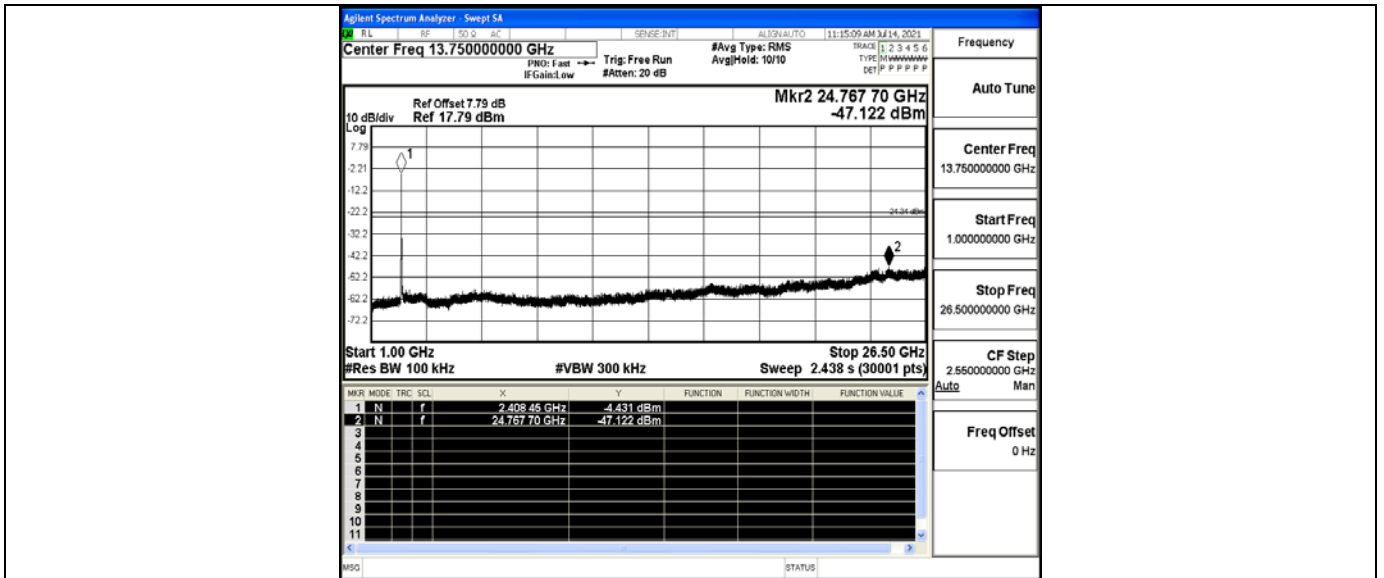
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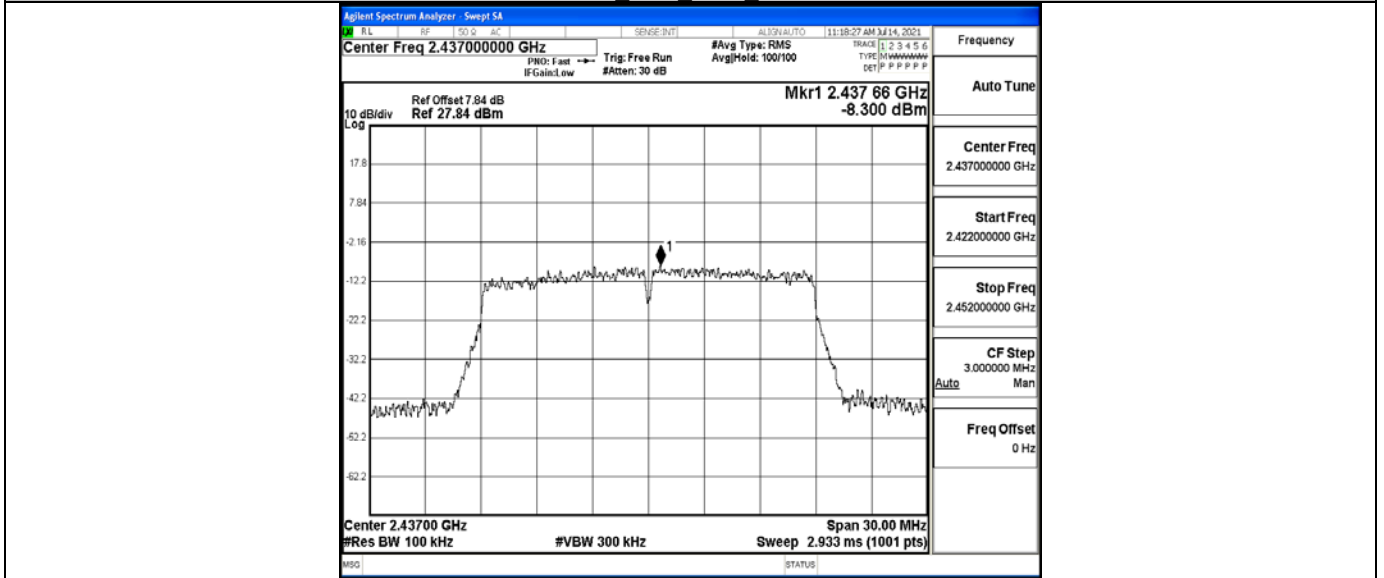
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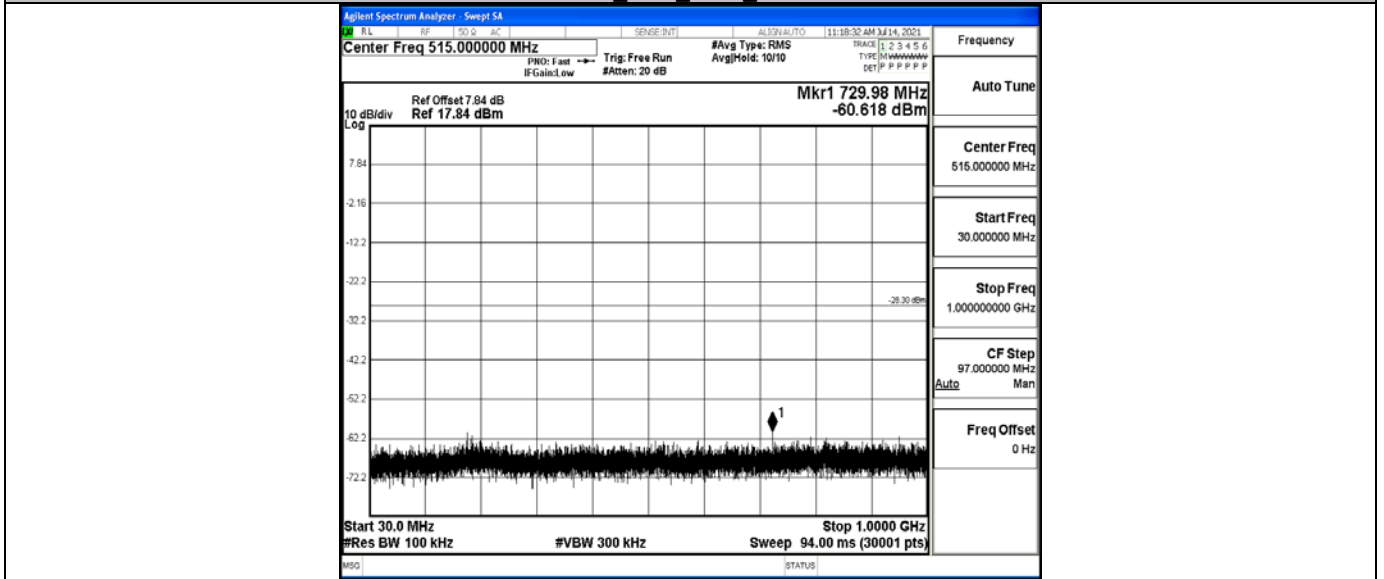
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11N20SISO Ant1 2412 1000~26500



11N20SISO Ant1 2437 0~Reference



11N20SISO Ant1 2437 30~1000