



Appendix A

RF Test Data for 2.4G WIFI (Conducted Measurement)

Product Name: Interactive smart board

Trade Mark: HBONY

Test Model: HBY-H550P

Environmental Conditions

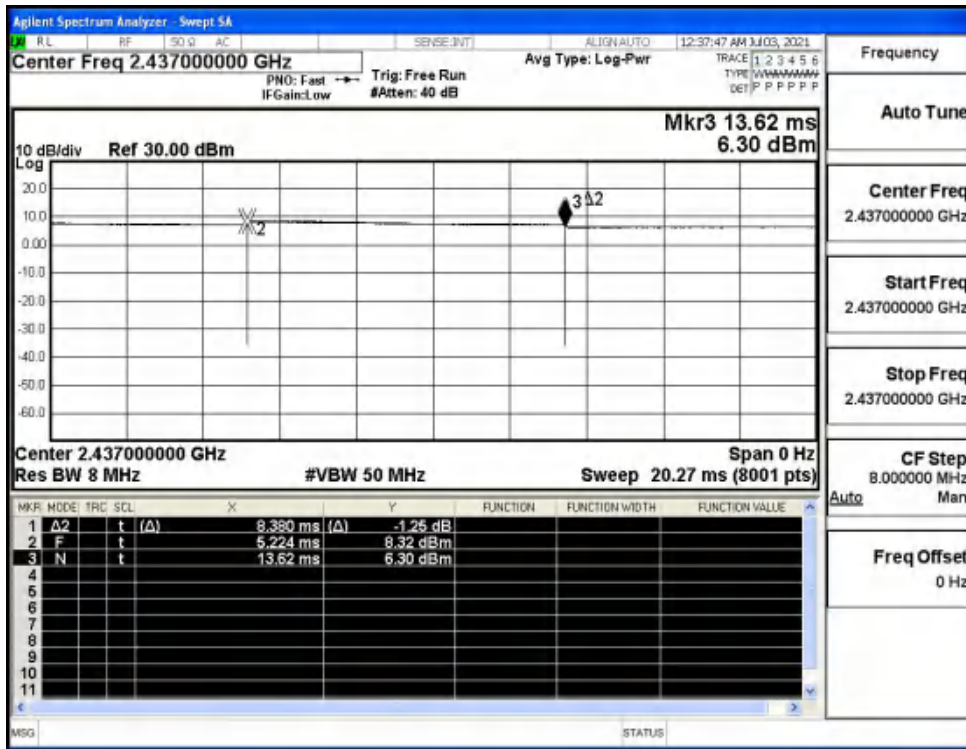
Temperature:	25 ° C
Relative Humidity:	50%
ATM Pressure:	100.0 kPa
Test Engineer:	Jay Li
Supervised by:	Li Huan

A.1 Duty Cycle

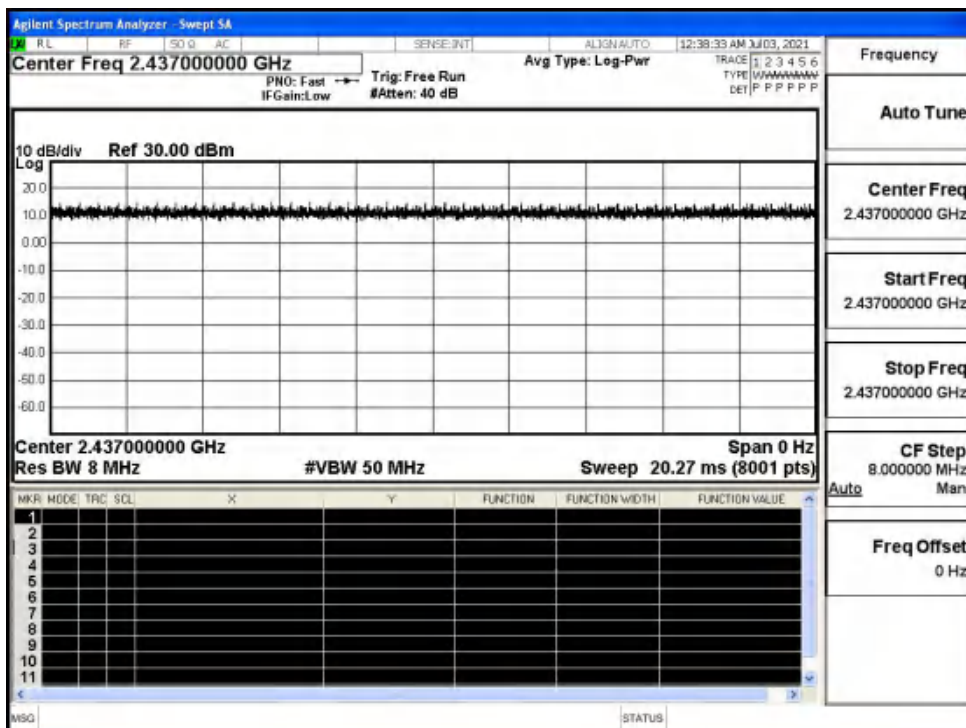
Test Mode	Test Channel	Ant	Duty Cycle[%]	Verdict
11B	2437	Ant1	99.79	PASS
11G	2437	Ant1	98.56	PASS
11N20SISO	2437	Ant1	98.65	PASS
11N40SISO	2437	Ant1	98.07	PASS



Duty Cycle_11B_2437_Ant1

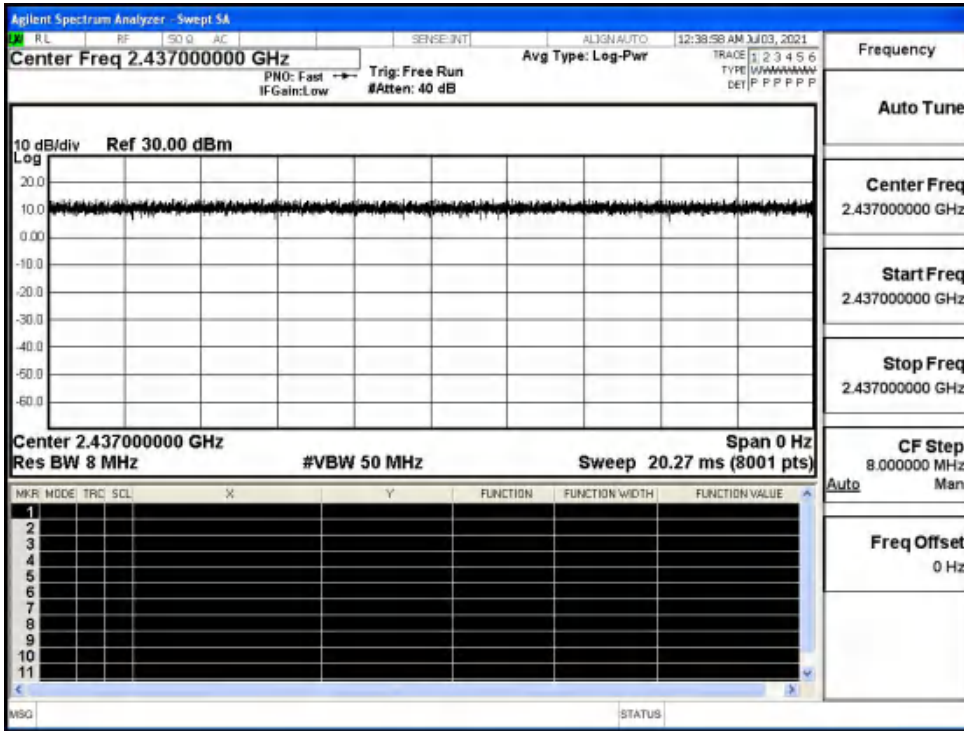


Duty Cycle_11G_2437_Ant1

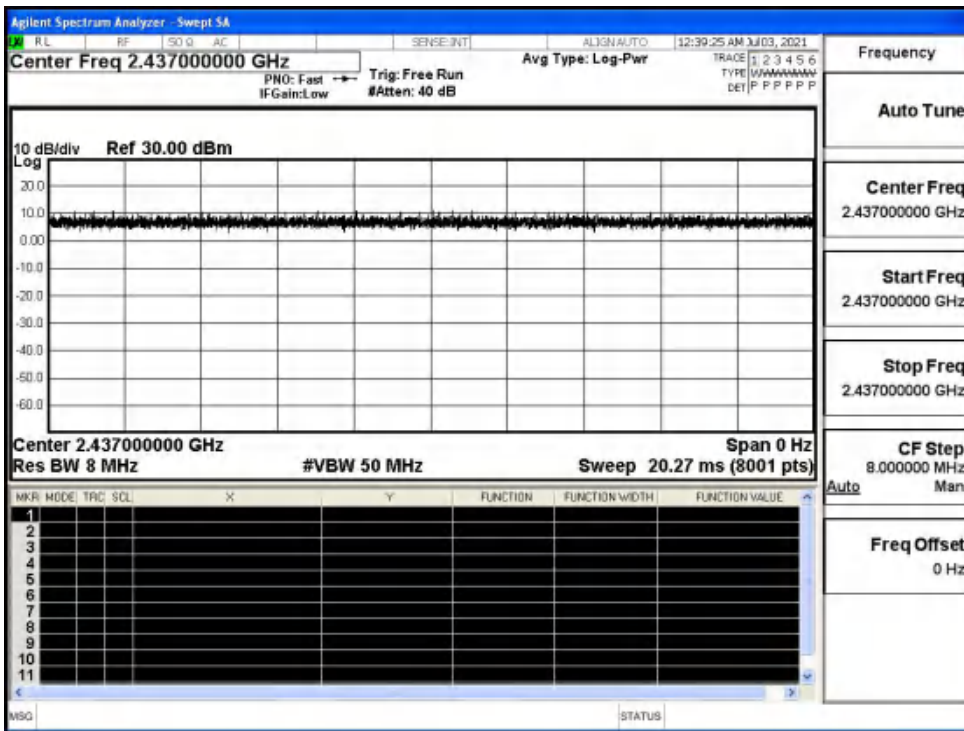




Duty Cycle_11N20SISO_2437_Ant1



Duty Cycle_11N40SISO_2437_Ant1





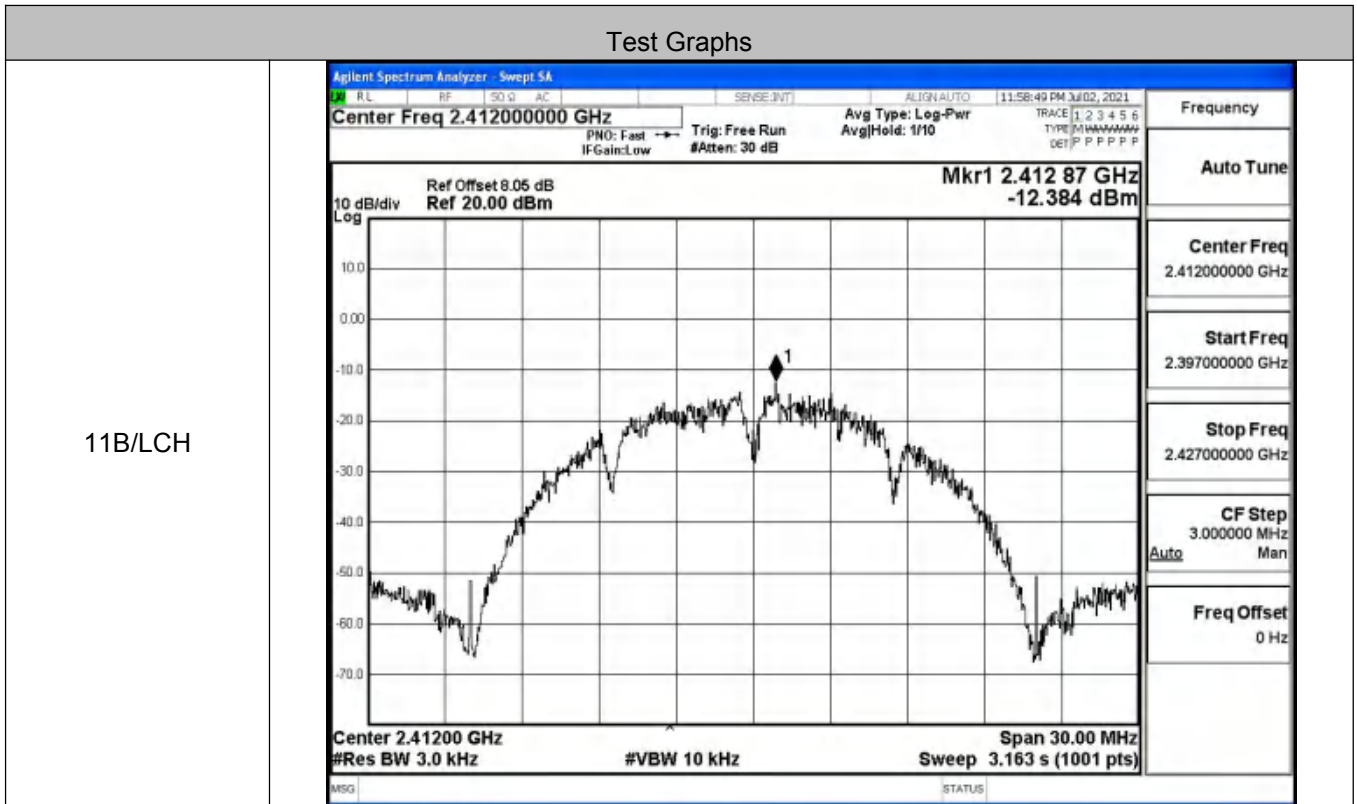
A.2 Maximum Conducted Output Power

Mode	Channel	Meas.Level [dBm]	Limit [dBm]	Verdict
11B	LCH	13.37	30	PASS
	MCH	14.44	30	PASS
	HCH	15.09	30	PASS
11G	LCH	13.57	30	PASS
	MCH	14.23	30	PASS
	HCH	15.87	30	PASS
11N20SISO	LCH	13.03	30	PASS
	MCH	14.49	30	PASS
	HCH	15.17	30	PASS
11N40SISO	LCH	14.11	30	PASS
	MCH	14.87	30	PASS
	HCH	15.5	30	PASS



A.3 Maximum Power Spectral Density

Mode	Channel	Meas.Level [dBm/3KHz]	Limit [dBm/3KHz]	Verdict
11B	LCH	-12.384	8	PASS
	MCH	-13.311	8	PASS
	HCH	-12.575	8	PASS
11G	LCH	-19.501	8	PASS
	MCH	-18.072	8	PASS
	HCH	-17.226	8	PASS
11N20SISO	LCH	-18.264	8	PASS
	MCH	-17.232	8	PASS
	HCH	-15.968	8	PASS
11N40SISO	LCH	-21.685	8	PASS
	MCH	-20.408	8	PASS
	HCH	-19.593	8	PASS





11B/MCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.437000000 GHz Mkr1 2.437 63 GHz -13.311 dBm Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	<table border="1"><tr><td>Frequency</td></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 2.437000000 GHz</td></tr><tr><td>Start Freq 2.422000000 GHz</td></tr><tr><td>Stop Freq 2.452000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 2.437000000 GHz	Start Freq 2.422000000 GHz	Stop Freq 2.452000000 GHz	CF Step 3.000000 MHz Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 2.437000000 GHz									
Start Freq 2.422000000 GHz									
Stop Freq 2.452000000 GHz									
CF Step 3.000000 MHz Auto Man									
Freq Offset 0 Hz									
11B/HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.462000000 GHz Mkr1 2.461 40 GHz -12.575 dBm Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	<table border="1"><tr><td>Frequency</td></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 2.462000000 GHz</td></tr><tr><td>Start Freq 2.447000000 GHz</td></tr><tr><td>Stop Freq 2.477000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 2.462000000 GHz	Start Freq 2.447000000 GHz	Stop Freq 2.477000000 GHz	CF Step 3.000000 MHz Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 2.462000000 GHz									
Start Freq 2.447000000 GHz									
Stop Freq 2.477000000 GHz									
CF Step 3.000000 MHz Auto Man									
Freq Offset 0 Hz									



11G/LCH	<p>Agilent Spectrum Analyzer: Swept SA Center Freq 2.41200000 GHz Mkr1 2.412 96 GHz -19.501 dBm Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	<table border="1"><tr><td>Frequency</td></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 2.41200000 GHz</td></tr><tr><td>Start Freq 2.397000000 GHz</td></tr><tr><td>Stop Freq 2.427000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 2.41200000 GHz	Start Freq 2.397000000 GHz	Stop Freq 2.427000000 GHz	CF Step 3.000000 MHz Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 2.41200000 GHz									
Start Freq 2.397000000 GHz									
Stop Freq 2.427000000 GHz									
CF Step 3.000000 MHz Auto Man									
Freq Offset 0 Hz									
11G/MCH	<p>Agilent Spectrum Analyzer: Swept SA Center Freq 2.437000000 GHz Mkr1 2.436 37 GHz -18.072 dBm Ref Offset 8.05 dB Ref 20.00 dBm 10 dB/div Log Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	<table border="1"><tr><td>Frequency</td></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 2.437000000 GHz</td></tr><tr><td>Start Freq 2.422000000 GHz</td></tr><tr><td>Stop Freq 2.452000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 2.437000000 GHz	Start Freq 2.422000000 GHz	Stop Freq 2.452000000 GHz	CF Step 3.000000 MHz Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 2.437000000 GHz									
Start Freq 2.422000000 GHz									
Stop Freq 2.452000000 GHz									
CF Step 3.000000 MHz Auto Man									
Freq Offset 0 Hz									



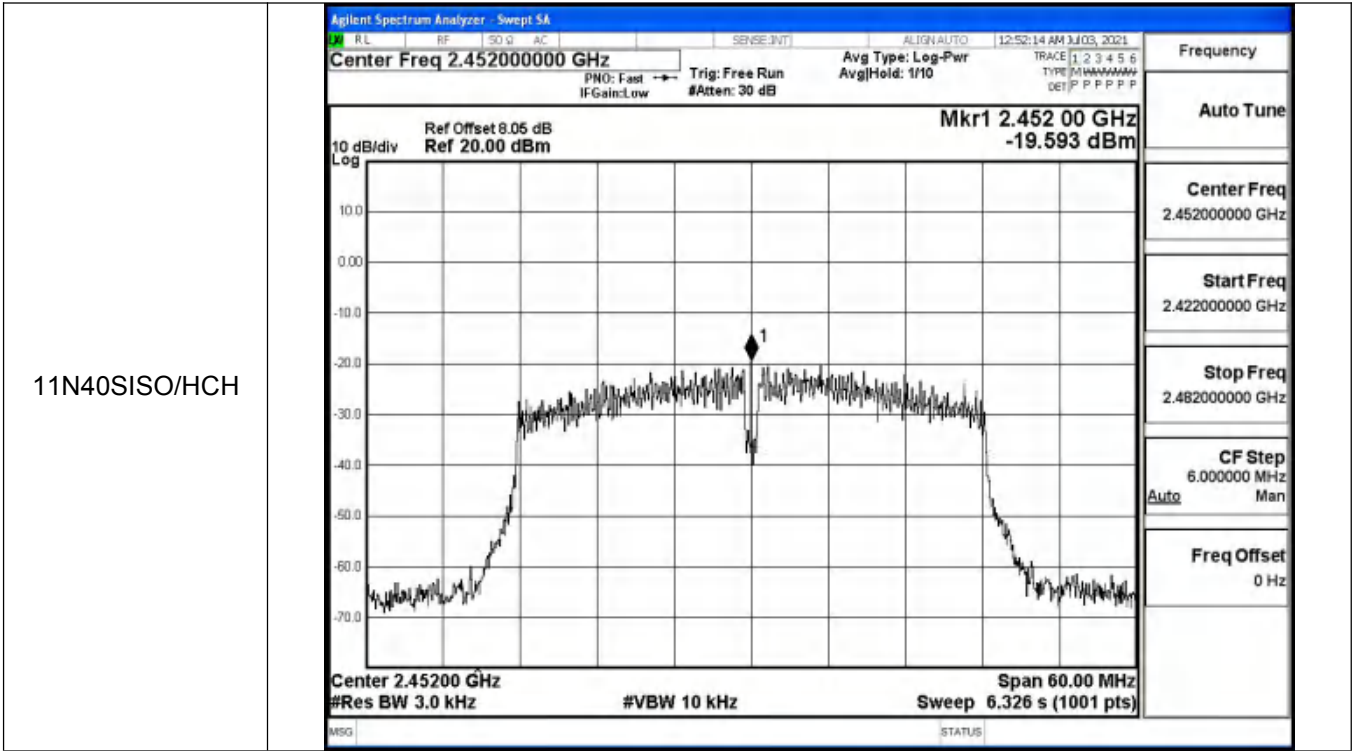
11G/HCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.46200000 GHz Mkr1 2.461 07 GHz -17.226 dBm 10 dB/div Ref 20.00 dBm Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>
11N20SISO/LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.41200000 GHz Mkr1 2.414 79 GHz -18.264 dBm 10 dB/div Ref 20.00 dBm Center 2.41200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>



11N20SISO/MCH	<p>Agilent Spectrum Analyzer: Swept SA Center Freq 2.43700000 GHz Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.439 79 GHz -17.232 dBm 10 dB/div Log Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	<table border="1"><tr><td>Frequency</td></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 2.43700000 GHz</td></tr><tr><td>Start Freq 2.422000000 GHz</td></tr><tr><td>Stop Freq 2.452000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 2.43700000 GHz	Start Freq 2.422000000 GHz	Stop Freq 2.452000000 GHz	CF Step 3.000000 MHz Auto Man	Freq Offset 0 Hz
Frequency									
Auto Tune									
Center Freq 2.43700000 GHz									
Start Freq 2.422000000 GHz									
Stop Freq 2.452000000 GHz									
CF Step 3.000000 MHz Auto Man									
Freq Offset 0 Hz									
11N20SISO/HCH	<p>Agilent Spectrum Analyzer: Swept SA Center Freq 2.46200000 GHz Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.464 79 GHz -15.968 dBm 10 dB/div Log Center 2.46200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 30.00 MHz Sweep 3.163 s (1001 pts)</p>	<table border="1"><tr><td>Frequency</td></tr><tr><td>Auto Tune</td></tr><tr><td>Center Freq 2.46200000 GHz</td></tr><tr><td>Start Freq 2.447000000 GHz</td></tr><tr><td>Stop Freq 2.477000000 GHz</td></tr><tr><td>CF Step 3.000000 MHz Auto Man</td></tr><tr><td>Freq Offset 0 Hz</td></tr></table>	Frequency	Auto Tune	Center Freq 2.46200000 GHz	Start Freq 2.447000000 GHz	Stop Freq 2.477000000 GHz	CF Step 3.000000 MHz Auto Man	Freq Offset 0 Hz
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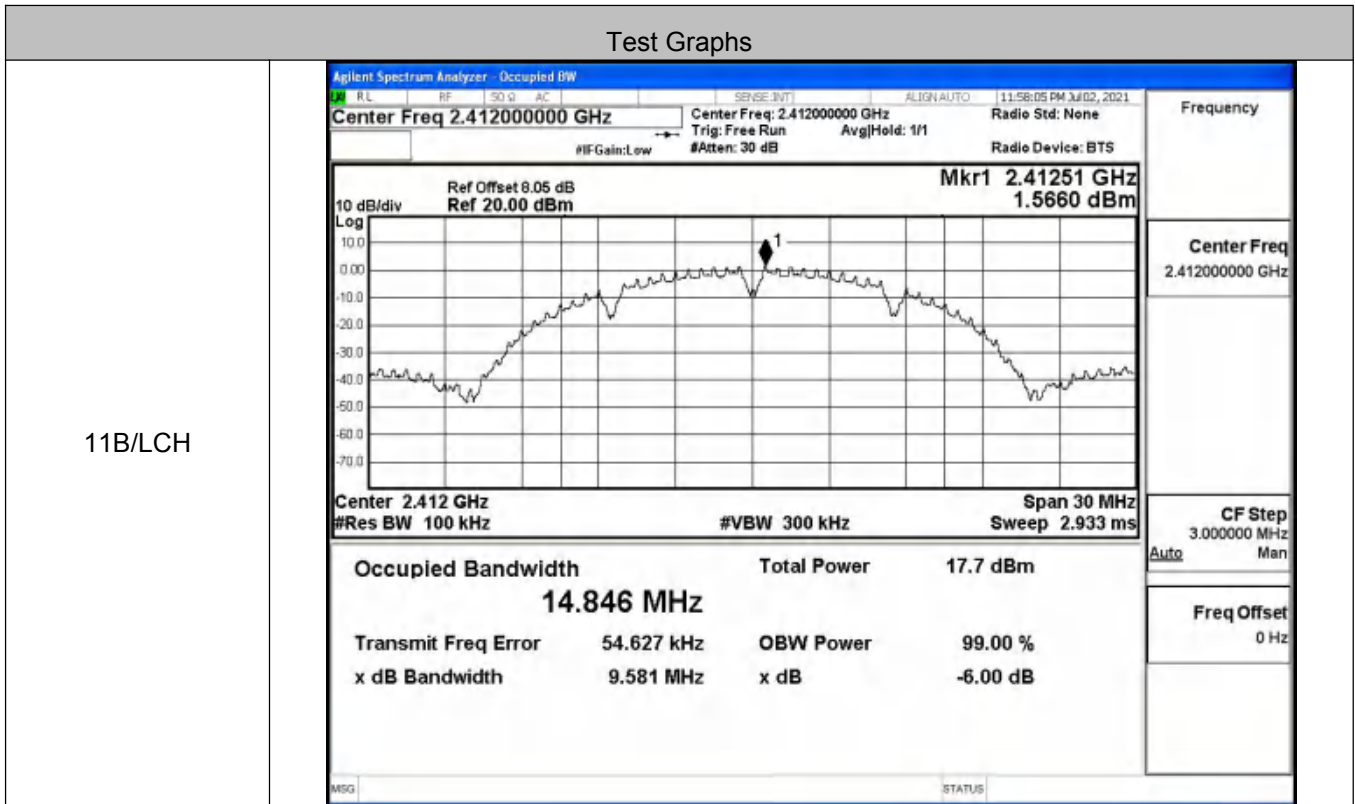
11N40SISO/LCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.422000000 GHz Mkr1 2.422 00 GHz -21.685 dBm 10 dB/div Ref 20.00 dBm Center 2.42200 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>
11N40SISO/MCH	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.437000000 GHz Mkr1 2.442 40 GHz -20.408 dBm 10 dB/div Ref 20.00 dBm Center 2.43700 GHz #Res BW 3.0 kHz #VBW 10 kHz Span 60.00 MHz Sweep 6.326 s (1001 pts)</p>





A.4 6dB Bandwidth

Mode	Channel	6dB Bandwidth [MHz]	Limit [MHz]	Verdict
11B	LCH	9.581	≥0.5	PASS
	MCH	10.06	≥0.5	PASS
	HCH	9.581	≥0.5	PASS
11G	LCH	13.80	≥0.5	PASS
	MCH	10.13	≥0.5	PASS
	HCH	13.81	≥0.5	PASS
11N20SISO	LCH	13.78	≥0.5	PASS
	MCH	15.04	≥0.5	PASS
	HCH	12.56	≥0.5	PASS
11N40SISO	LCH	33.84	≥0.5	PASS
	MCH	33.85	≥0.5	PASS
	HCH	33.85	≥0.5	PASS





<p>11B/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>12:00:50 AM 3/10/2021</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.43652 GHz</p> <p>2.1259 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <p>Occupied Bandwidth</p> <p>14.846 MHz</p> <p>Total Power</p> <p>18.5 dBm</p> <p>Transmit Freq Error</p> <p>63.557 kHz</p> <p>OBW Power</p> <p>99.00 %</p> <p>x dB Bandwidth</p> <p>10.06 MHz</p> <p>x dB</p> <p>-6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.437000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto</p> <p>Man</p> <p>Freq Offset</p> <p>0 Hz</p>
<p>11B/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>12:03:36 AM 3/10/2021</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.46302 GHz</p> <p>3.1287 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <p>Occupied Bandwidth</p> <p>14.875 MHz</p> <p>Total Power</p> <p>19.4 dBm</p> <p>Transmit Freq Error</p> <p>15.066 kHz</p> <p>OBW Power</p> <p>99.00 %</p> <p>x dB Bandwidth</p> <p>9.581 MHz</p> <p>x dB</p> <p>-6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.462000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto</p> <p>Man</p> <p>Freq Offset</p> <p>0 Hz</p>



11G/LCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.41200000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Device: BTS</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.41326 GHz</p> <p>-3.3468 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>12.7 dBm</td></tr><tr><td>15.948 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>44.746 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>13.80 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	12.7 dBm	15.948 MHz			Transmit Freq Error	44.746 kHz	OBW Power	99.00 %	x dB Bandwidth	13.80 MHz	x dB	-6.00 dB	Frequency 2.41200000 GHz Center Freq 2.41200000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
Occupied Bandwidth	Total Power	12.7 dBm														
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Transmit Freq Error	44.746 kHz	OBW Power	99.00 %													
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11G/MCH	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>Radio Device: BTS</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.43829 GHz</p> <p>-2.0969 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <table border="1"><tr><td>Occupied Bandwidth</td><td>Total Power</td><td>14.0 dBm</td></tr><tr><td>15.947 MHz</td><td></td><td></td></tr><tr><td>Transmit Freq Error</td><td>46.080 kHz</td><td>OBW Power</td><td>99.00 %</td></tr><tr><td>x dB Bandwidth</td><td>10.13 MHz</td><td>x dB</td><td>-6.00 dB</td></tr></table>	Occupied Bandwidth	Total Power	14.0 dBm	15.947 MHz			Transmit Freq Error	46.080 kHz	OBW Power	99.00 %	x dB Bandwidth	10.13 MHz	x dB	-6.00 dB	Frequency 2.43700000 GHz Center Freq 2.43700000 GHz CF Step 3.000000 MHz Auto Man Freq Offset 0 Hz
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<p>11G/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.46329 GHz</p> <p>-1.1880 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <p>Occupied Bandwidth 15.940 MHz</p> <p>Total Power 14.9 dBm</p> <p>Transmit Freq Error 28.424 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 13.81 MHz</p> <p>x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.462000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset</p> <p>0 Hz</p>
<p>11N20SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.412000000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>10 dB/div</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.41329 GHz</p> <p>-3.2161 dBm</p> <p>Center 2.412 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <p>Occupied Bandwidth 16.846 MHz</p> <p>Total Power 12.5 dBm</p> <p>Transmit Freq Error 43.473 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 13.78 MHz</p> <p>x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.412000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset</p> <p>0 Hz</p>



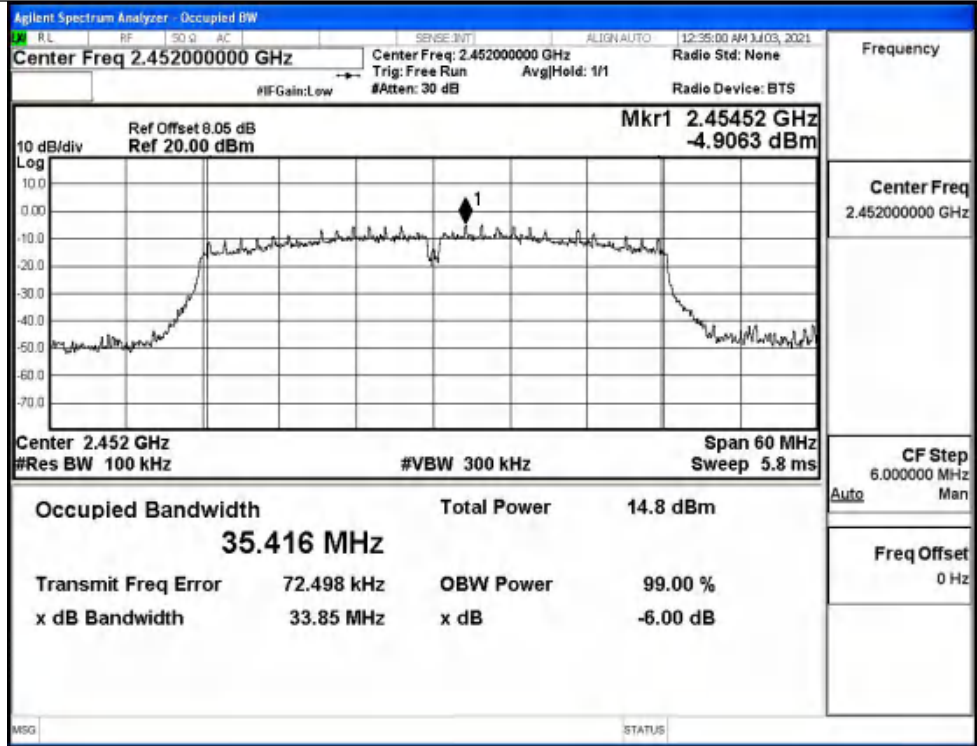
<p>11N20SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.437000000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>12:26:14 AM 3/10/2021</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.43832 GHz</p> <p>-2.7985 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <p>Occupied Bandwidth</p> <p>16.839 MHz</p> <p>Total Power</p> <p>13.8 dBm</p> <p>Transmit Freq Error</p> <p>37.229 kHz</p> <p>OBW Power</p> <p>99.00 %</p> <p>x dB Bandwidth</p> <p>15.04 MHz</p> <p>x dB</p> <p>-6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.437000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto</p> <p>Man</p> <p>Freq Offset</p> <p>0 Hz</p>
<p>11N20SISO/HCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.462000000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 1/1</p> <p>#IFGain: Low</p> <p>#Atten: 30 dB</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>12:27:54 AM 3/10/2021</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.46326 GHz</p> <p>-0.99962 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.462 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 30 MHz</p> <p>Sweep 2.933 ms</p> <p>Occupied Bandwidth</p> <p>16.819 MHz</p> <p>Total Power</p> <p>14.8 dBm</p> <p>Transmit Freq Error</p> <p>20.773 kHz</p> <p>OBW Power</p> <p>99.00 %</p> <p>x dB Bandwidth</p> <p>12.56 MHz</p> <p>x dB</p> <p>-6.00 dB</p> <p>MSG</p> <p>STATUS</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.462000000 GHz</p> <p>CF Step</p> <p>3.000000 MHz</p> <p>Auto</p> <p>Man</p> <p>Freq Offset</p> <p>0 Hz</p>



<p>11N40SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.42200000 GHz</p> <p>Center Freq: 2.42200000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.42452 GHz</p> <p>-6.2813 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.422 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 5.8 ms</p> <p>Occupied Bandwidth 35.409 MHz</p> <p>Total Power 13.5 dBm</p> <p>Transmit Freq Error 110.39 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 33.84 MHz</p> <p>x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.42200000 GHz</p> <p>CF Step</p> <p>6.000000 MHz</p> <p>Freq Offset</p> <p>0 Hz</p>
<p>11N40SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.43700000 GHz</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 8.05 dB</p> <p>Ref 20.00 dBm</p> <p>Mkr1 2.43952 GHz</p> <p>-5.5394 dBm</p> <p>10 dB/div</p> <p>Log</p> <p>Center 2.437 GHz</p> <p>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 60 MHz</p> <p>Sweep 5.8 ms</p> <p>Occupied Bandwidth 35.404 MHz</p> <p>Total Power 14.2 dBm</p> <p>Transmit Freq Error 100.94 kHz</p> <p>OBW Power 99.00 %</p> <p>x dB Bandwidth 33.85 MHz</p> <p>x dB -6.00 dB</p>	<p>Frequency</p> <p>Center Freq</p> <p>2.43700000 GHz</p> <p>CF Step</p> <p>6.000000 MHz</p> <p>Freq Offset</p> <p>0 Hz</p>



11N40SISO/HCH





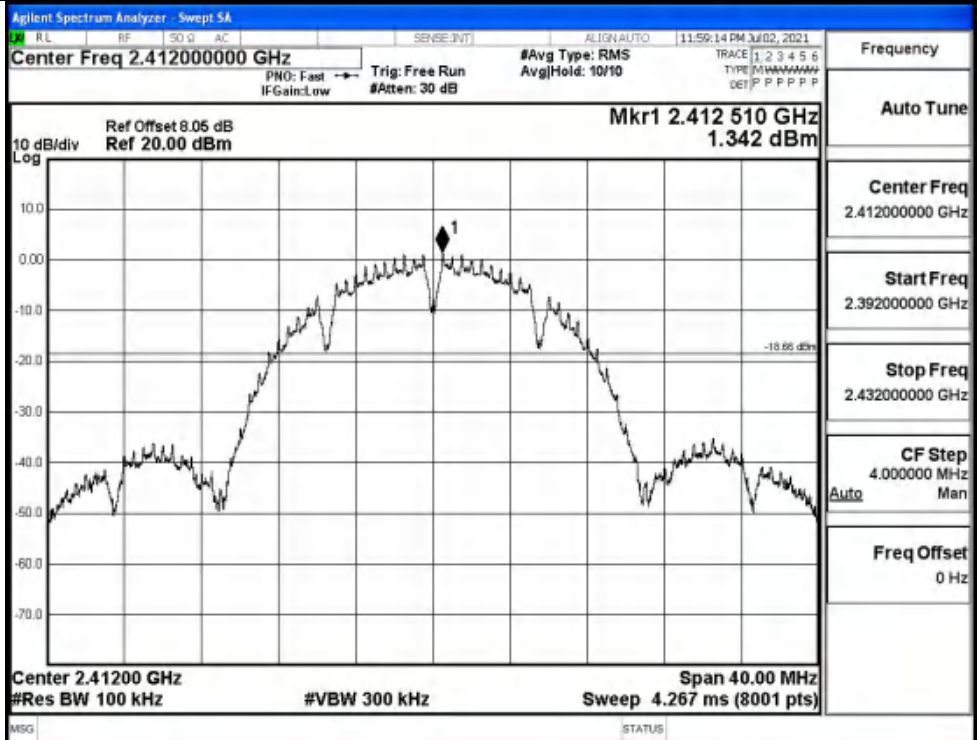
A.5 RF Conducted Spurious Emissions

Mode	Channel	Pref [dBm]	Max. Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.342	-37.867	-18.658	PASS
	MCH	2.151	-37.892	-17.849	PASS
	HCH	2.997	-36.804	-17.003	PASS
11G	LCH	-3.264	-37.556	-23.264	PASS
	MCH	-2.289	-37.664	-22.289	PASS
	HCH	-1.02	-37.800	-21.020	PASS
11N20 SISO	LCH	-3.824	-37.939	-23.824	PASS
	MCH	-2.657	-38.077	-22.657	PASS
	HCH	-1.077	-38.145	-21.077	PASS
11N40 SISO	LCH	-6.373	-37.262	-26.373	PASS
	MCH	-5.858	-37.756	-25.858	PASS
	HCH	-5.299	-37.871	-25.299	PASS

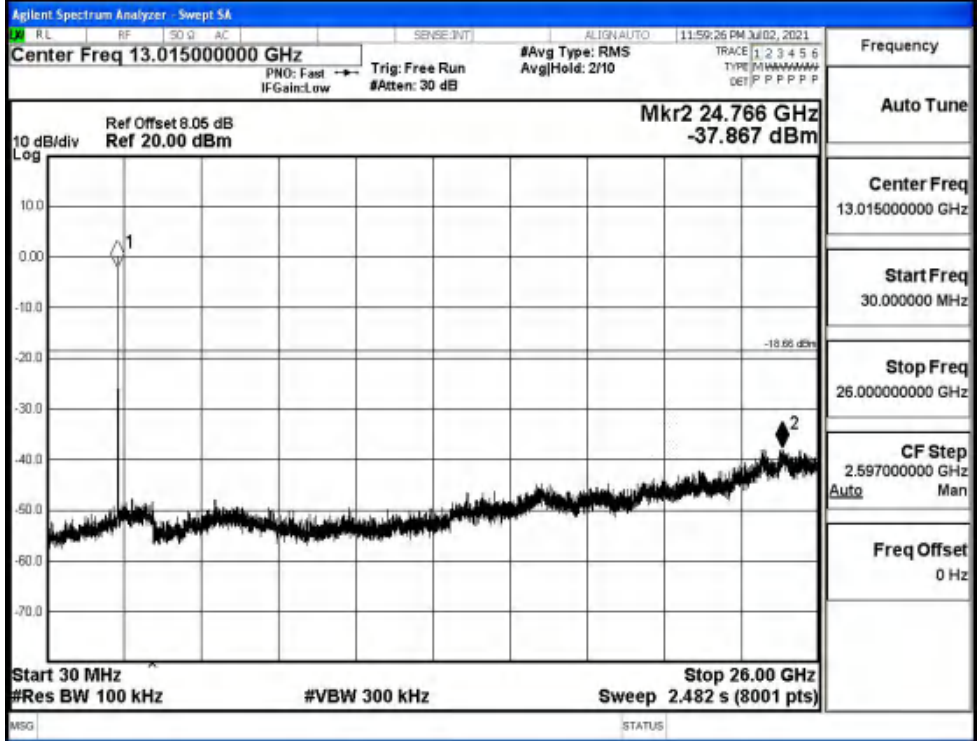


11B_LCH_Graphs

Pref/11B/LCH



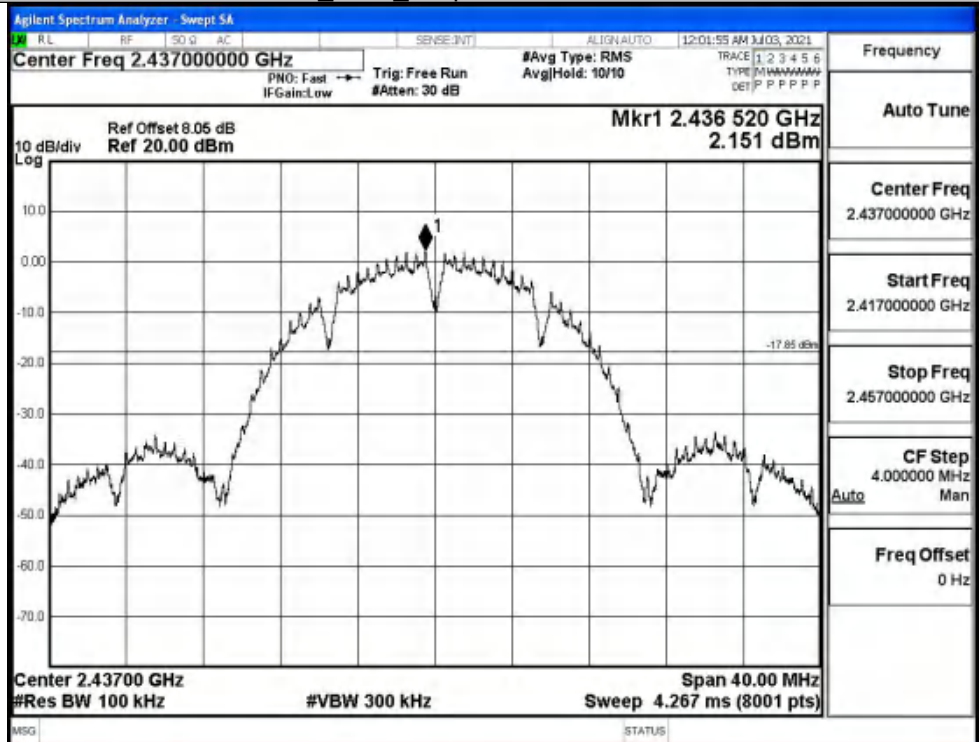
Puw/11B/LCH



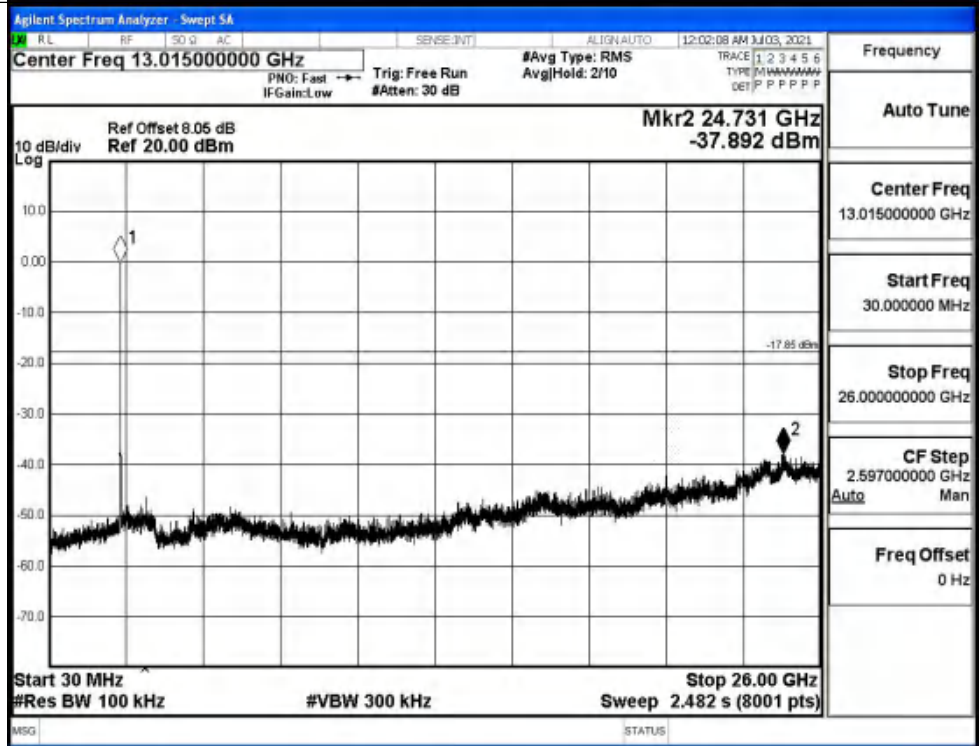


11B_MCH_Graphs

Pref/11B/MCH



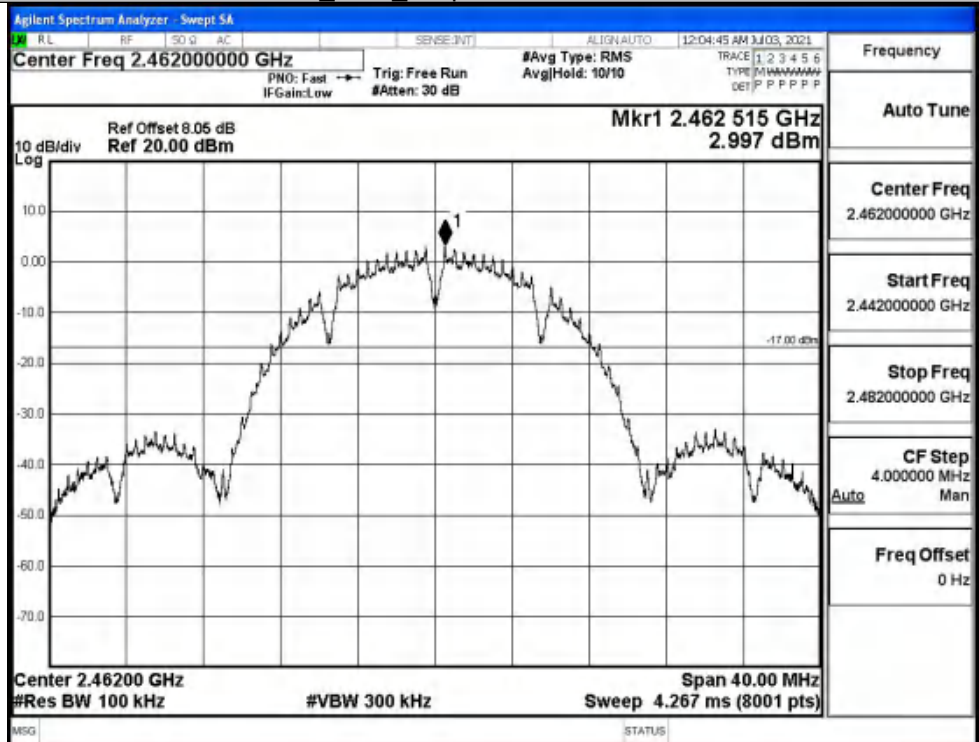
Puw/11B/MCH





11B_HCH_Graphs

Pref/11B/HCH



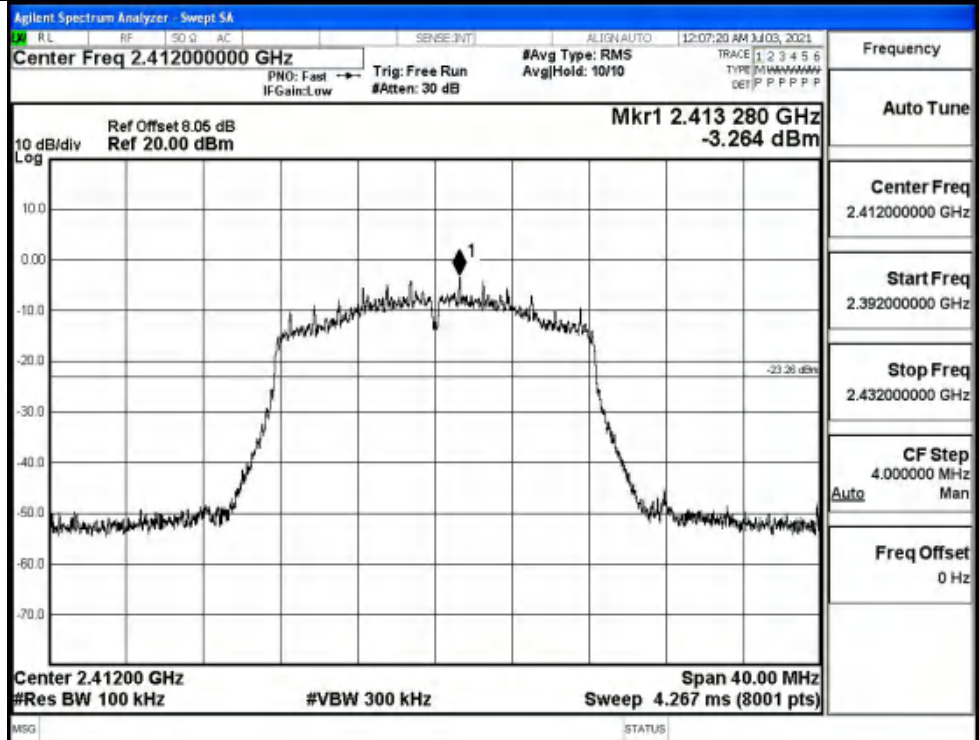
Puw/11B/HCH





11G_LCH_Graphs

Pref/11G/LCH



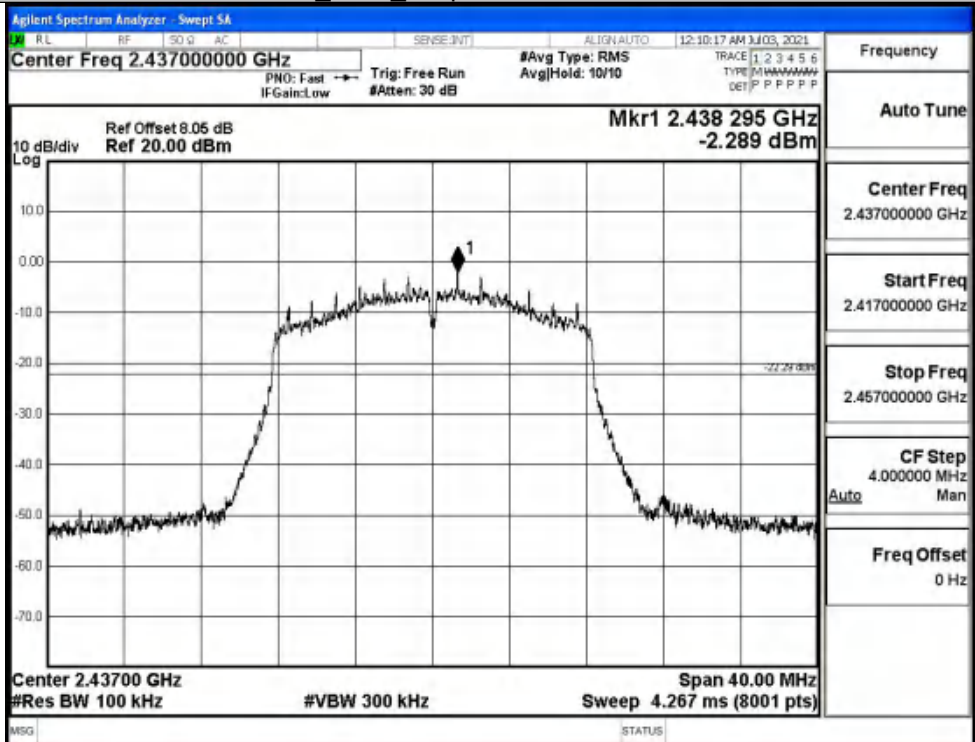
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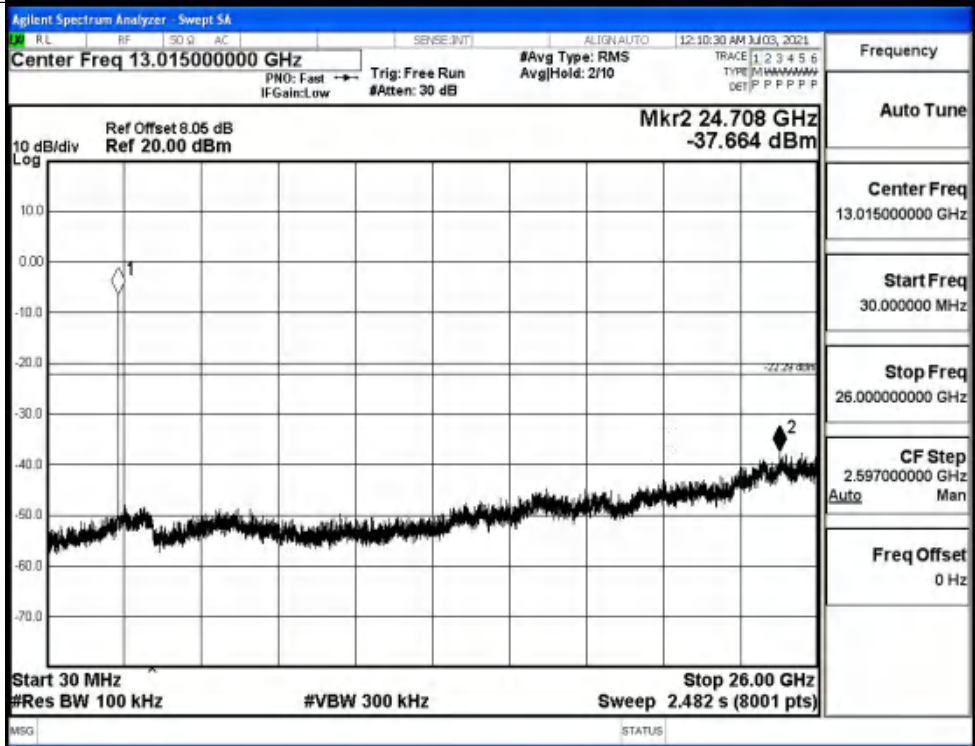


11G_MCH_Graphs

Pref/11G/MCH



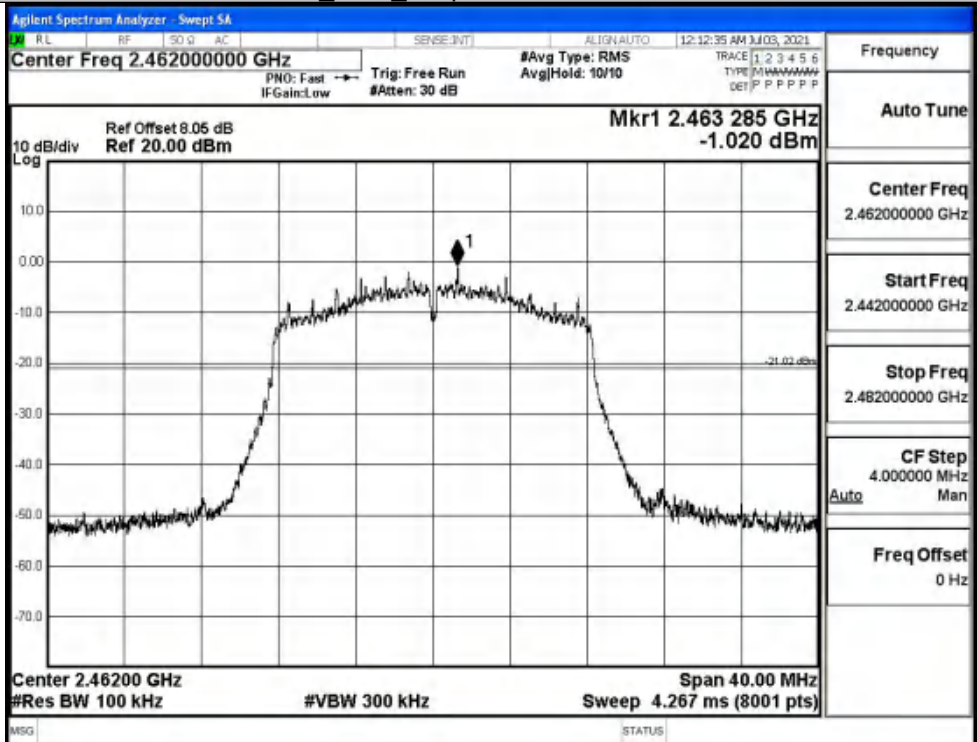
Puw/11G/MCH





11G_HCH_Graphs

Pref/11G/HCH



Frequency
Auto Tune
Center Freq 2.462000000 GHz
Start Freq 2.442000000 GHz
Stop Freq 2.482000000 GHz
CF Step 4.000000 MHz Auto Man
Freq Offset 0 Hz

Puw/11G/HCH

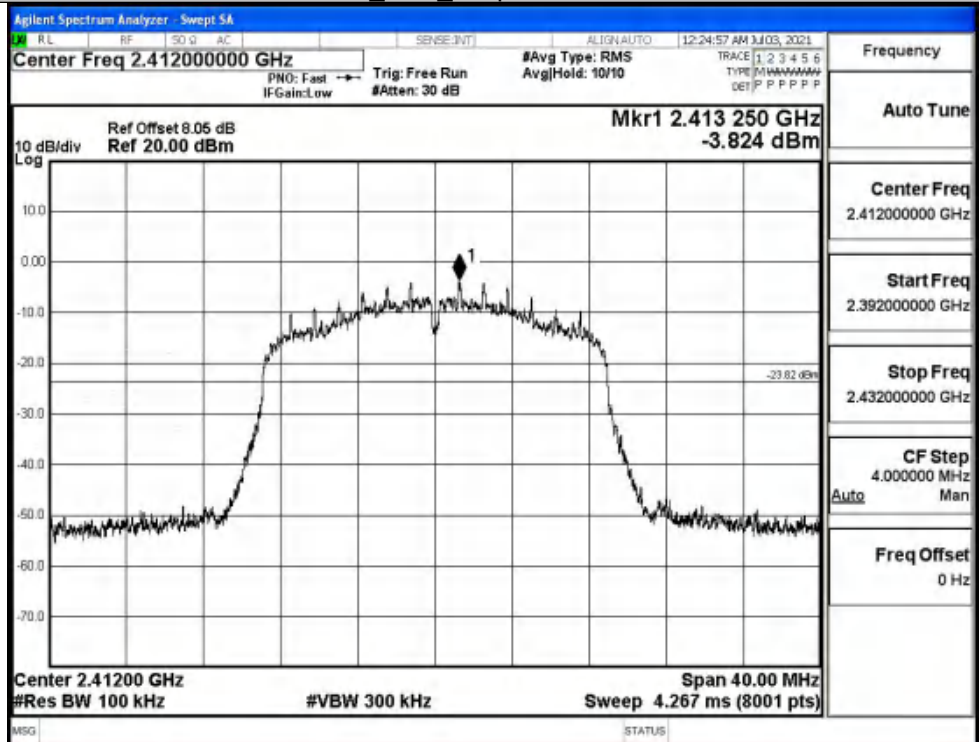


Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Auto Man
Freq Offset 0 Hz



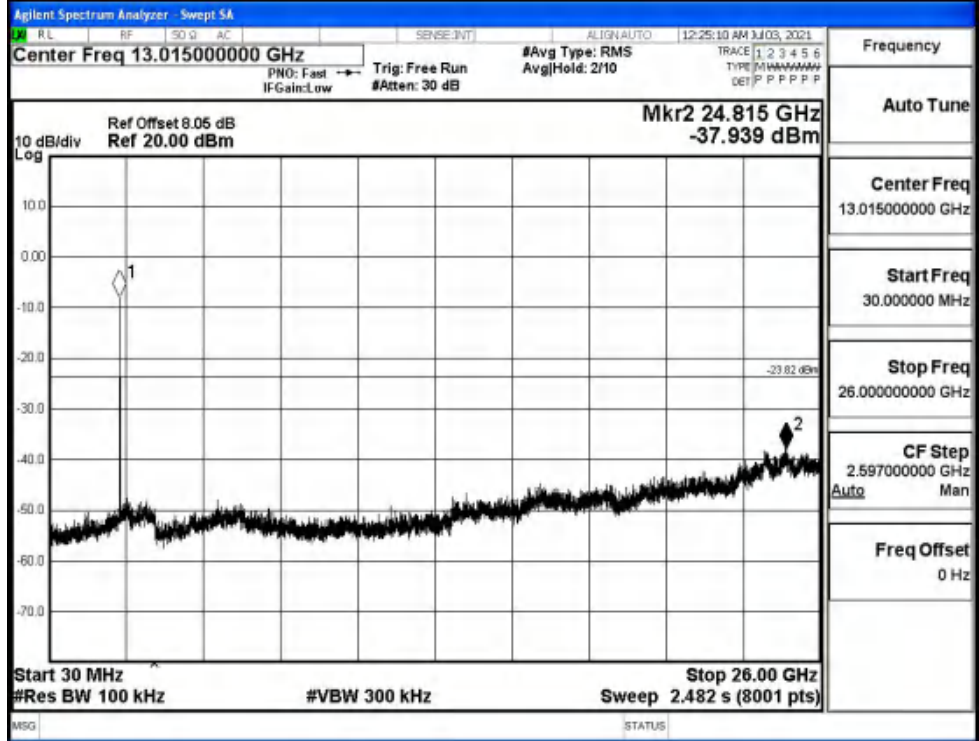
11N20SISO_LCH_Graphs

Pref/11N20SIS
O/LCH



Frequency
Auto Tune
Center Freq 2.412000000 GHz
Start Freq 2.392000000 GHz
Stop Freq 2.432000000 GHz
CF Step 4.000000 MHz Auto Man
Freq Offset 0 Hz

Puw/11N20
SISO/LCH



Frequency
Auto Tune
Center Freq 13.015000000 GHz
Start Freq 30.000000 MHz
Stop Freq 26.000000000 GHz
CF Step 2.597000000 GHz Auto Man
Freq Offset 0 Hz



11N20SISO_MCH_Graphs

Pref/11N20 SISO/MCH		Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.417000000 GHz Stop Freq 2.457000000 GHz CF Step 4.000000 MHz Auto Man Freq Offset 0 Hz
Puw/11N20 SISO/MCH		Frequency Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz CF Step 2.597000000 GHz Auto Man Freq Offset 0 Hz



11N20SISO_HCH_Graphs

Pref/11N20 SISO/HCH		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 8.05 dB Ref 20.00 dBm</p> <p>Mkr1 2.463 290 GHz -1.077 dBm</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.462000000 GHz</p> <p>Start Freq 2.442000000 GHz</p> <p>Stop Freq 2.482000000 GHz</p> <p>CF Step 4.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
Puw/11N20 SISO/HCH		<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 13.015000000 GHz</p> <p>Ref Offset 8.05 dB Ref 20.00 dBm</p> <p>Mkr2 24.763 GHz -38.145 dBm</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 13.015000000 GHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 26.000000000 GHz</p> <p>CF Step 2.597000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p>



11N40SISO_LCH_Graphs

<p>Pref/11N40 SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.42200000 GHz Ref Offset 8.05 dB Ref 20.00 dBm Mkr1 2.424 52 GHz -6.373 dBm 10 dB/div Log Center 2.42200 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 8.000 ms (8001 pts) Span 80.00 MHz</p>	<p>Frequency Auto Tune Center Freq 2.422000000 GHz Start Freq 2.382000000 GHz Stop Freq 2.462000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz</p>
<p>Puw/11N40 SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 13.01500000 GHz Ref Offset 8.05 dB Ref 20.00 dBm Mkr2 24.786 GHz -37.262 dBm 10 dB/div Log Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (8001 pts) Stop 26.00 GHz</p>	<p>Frequency Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz CF Step 2.597000000 GHz Auto Man Freq Offset 0 Hz</p>



11N40SISO_MCH_Graphs

<p>Pref/11N40 SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 2.43700000 GHz Mkr1 2.442 01 GHz -5.858 dBm 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm Center 2.43700 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 8.000 ms (8001 pts) Span 80.00 MHz</p>	<p>Frequency Auto Tune Center Freq 2.437000000 GHz Start Freq 2.397000000 GHz Stop Freq 2.477000000 GHz CF Step 8.000000 MHz Auto Man Freq Offset 0 Hz</p>
<p>Puw/11N40 SISO/MCH</p>	<p>Agilent Spectrum Analyzer - Swept SA Center Freq 13.01500000 GHz Mkr2 24.776 GHz -37.756 dBm 10 dB/div Log Ref Offset 8.05 dB Ref 20.00 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (8001 pts) Stop 26.00 GHz</p>	<p>Frequency Auto Tune Center Freq 13.015000000 GHz Start Freq 30.000000 MHz Stop Freq 26.000000000 GHz CF Step 2.597000000 GHz Auto Man Freq Offset 0 Hz</p>



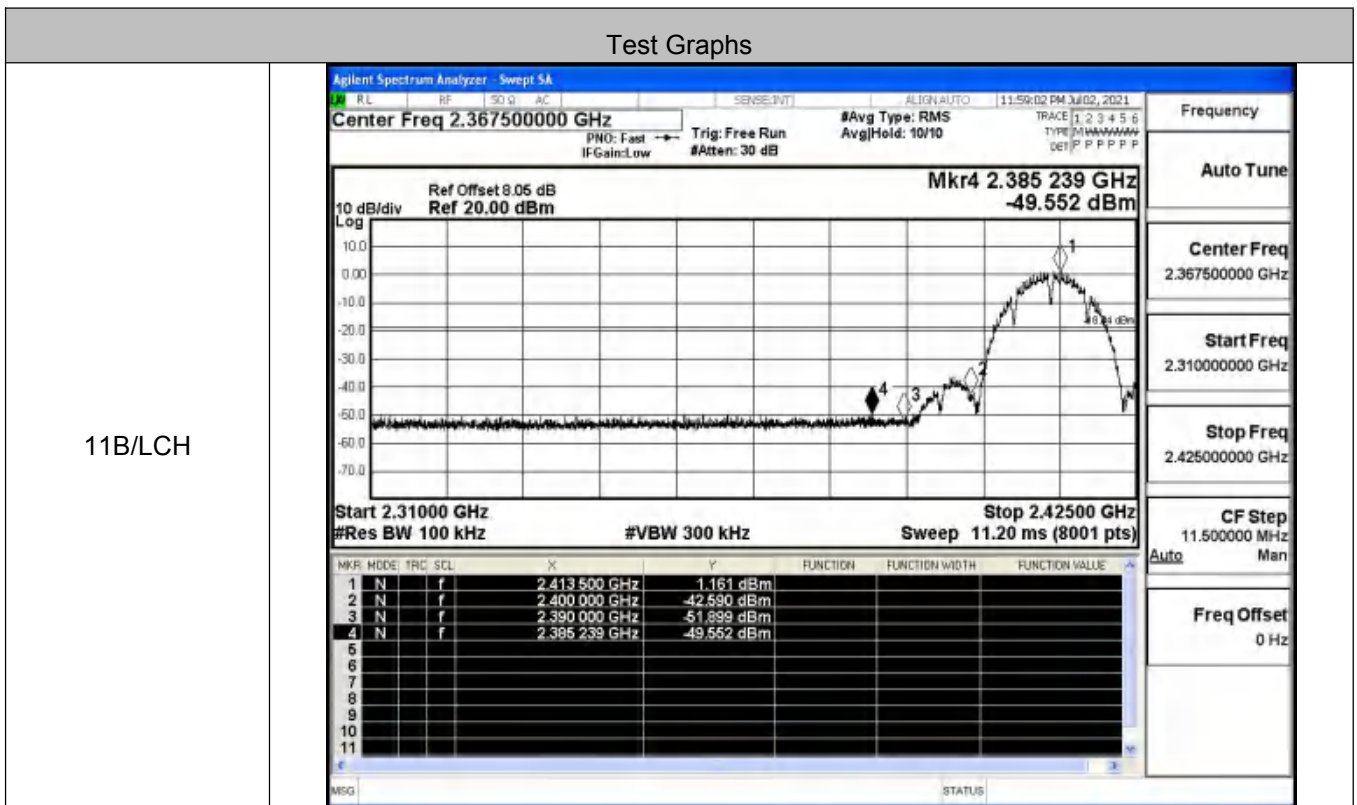
11N40SISO_HCH_Graphs

Pref/11N40 SISO/HCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.452000000 GHz</p> <p>Start Freq 2.412000000 GHz</p> <p>Stop Freq 2.492000000 GHz</p> <p>CF Step 8.000000 MHz Auto Man</p> <p>Freq Offset 0 Hz</p>
Puw/11N40 SISO/HCH		<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 13.015000000 GHz</p> <p>Start Freq 30.000000 MHz</p> <p>Stop Freq 26.000000000 GHz</p> <p>CF Step 2.597000000 GHz Auto Man</p> <p>Freq Offset 0 Hz</p>



A.6 Band-edge for RF Conducted Emissions

Mode	Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Limit [dBm]	Verdict
11B	LCH	1.161	-49.552	-18.84	PASS
	HCH	2.742	-47.711	-17.26	PASS
11G	LCH	-4.193	-49.033	-24.19	PASS
	HCH	-1.439	-48.691	-21.44	PASS
11N20SISO	LCH	-3.286	-49.160	-23.29	PASS
	HCH	-1.871	-49.145	-21.87	PASS
11N40SISO	LCH	-6.384	-47.739	-26.38	PASS
	HCH	-4.976	-44.646	-24.98	PASS

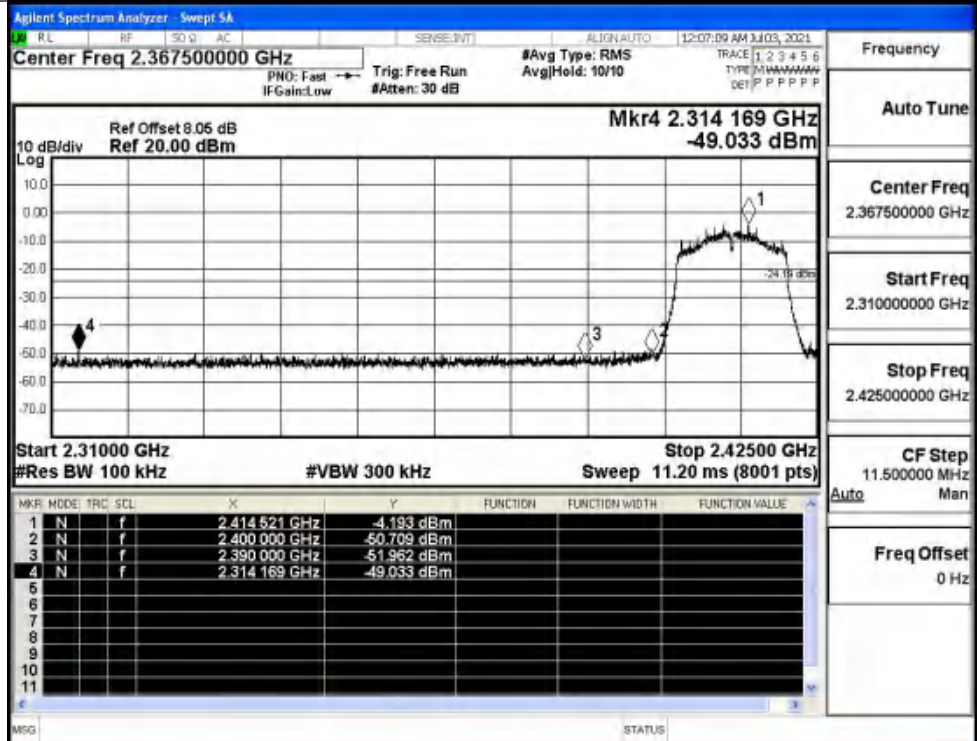




11B/HCH

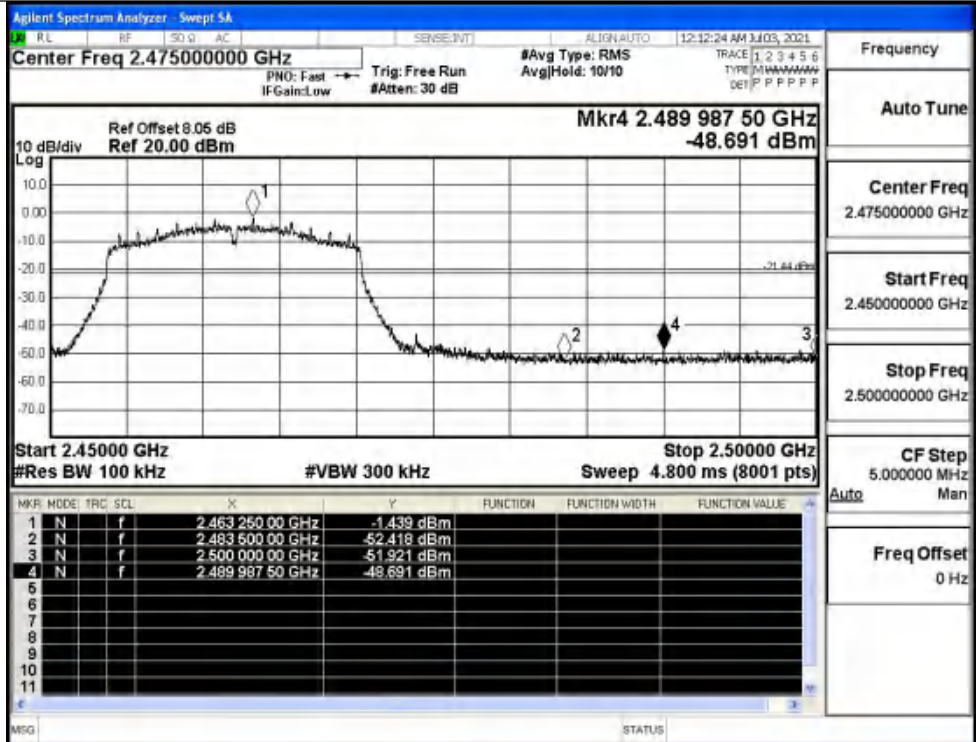


11G/LCH

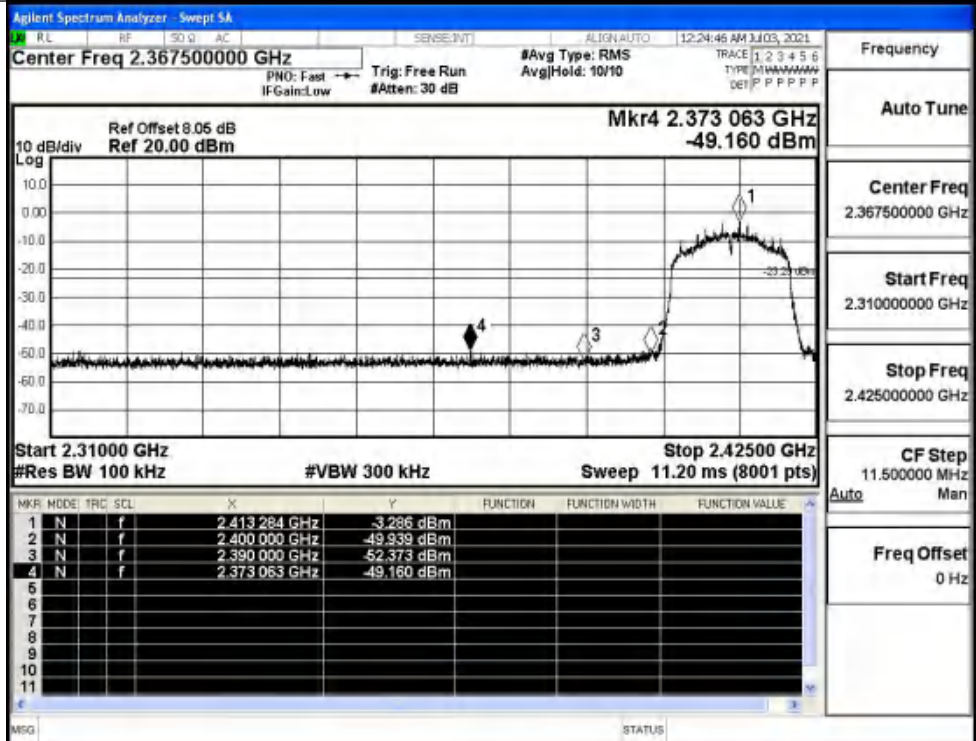




11G/HCH



11N20SISO/LCH

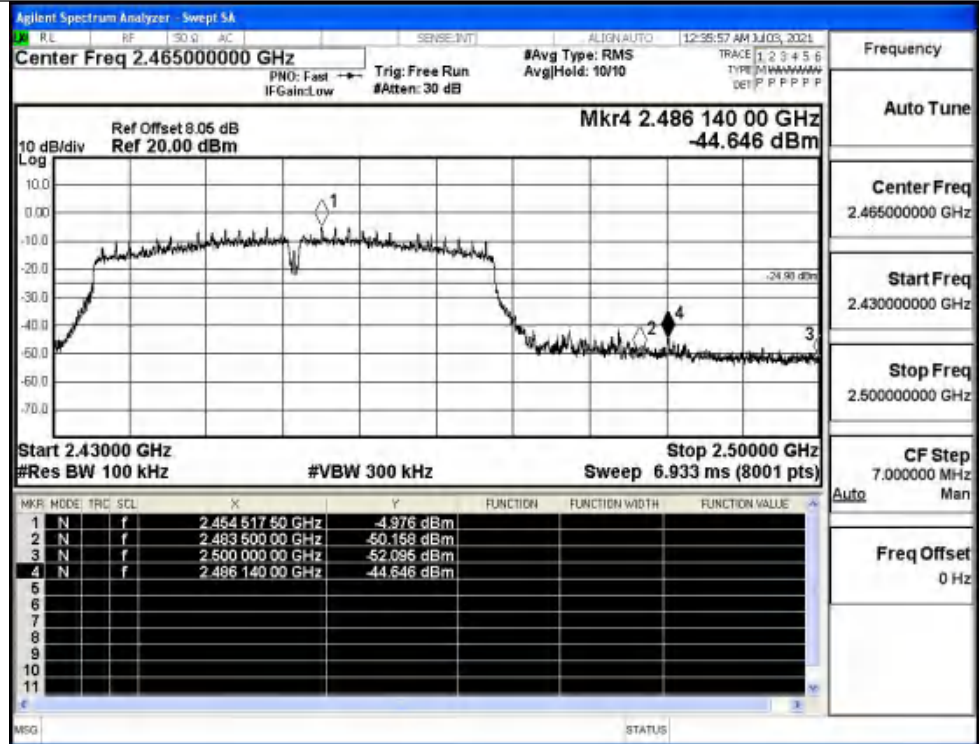




<p>11N20SISO/HCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.475000000 GHz</p> <p>Mkr4 2.48538750 GHz -49.145 dBm</p> <p>Start 2.45000 GHz Stop 2.50000 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 4.800 ms (8001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td></td> <td>2.46451250 GHz</td> <td>-1.871 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.48350000 GHz</td> <td>-52.162 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.50000000 GHz</td> <td>-50.142 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.48538750 GHz</td> <td>-49.145 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.46451250 GHz	-1.871 dBm				2	N	f		2.48350000 GHz	-52.162 dBm				3	N	f		2.50000000 GHz	-50.142 dBm				4	N	f		2.48538750 GHz	-49.145 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.475000000 GHz</p> <p>Start Freq 2.450000000 GHz</p> <p>Stop Freq 2.500000000 GHz</p> <p>CF Step 5.000000 MHz</p> <p>Freq Offset 0 Hz</p>
MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																							
1	N	f		2.46451250 GHz	-1.871 dBm																																										
2	N	f		2.48350000 GHz	-52.162 dBm																																										
3	N	f		2.50000000 GHz	-50.142 dBm																																										
4	N	f		2.48538750 GHz	-49.145 dBm																																										
<p>11N40SISO/LCH</p>	<p>Agilent Spectrum Analyzer - Swept SA</p> <p>Center Freq 2.377500000 GHz</p> <p>Mkr4 2.387085 GHz -47.739 dBm</p> <p>Start 2.31000 GHz Stop 2.44500 GHz</p> <p>#Res BW 100 kHz #VBW 300 kHz Sweep 13.33 ms (8001 pts)</p> <table border="1"> <thead> <tr> <th>MKR</th> <th>MODE</th> <th>TRIG</th> <th>SCL</th> <th>X</th> <th>Y</th> <th>FUNCTION</th> <th>FUNCTION WIDTH</th> <th>FUNCTION VALUE</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>N</td> <td>f</td> <td></td> <td>2.424548 GHz</td> <td>-6.384 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td>N</td> <td>f</td> <td></td> <td>2.400000 GHz</td> <td>-50.329 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td>N</td> <td>f</td> <td></td> <td>2.390000 GHz</td> <td>-53.586 dBm</td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td>N</td> <td>f</td> <td></td> <td>2.387085 GHz</td> <td>-47.739 dBm</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE	1	N	f		2.424548 GHz	-6.384 dBm				2	N	f		2.400000 GHz	-50.329 dBm				3	N	f		2.390000 GHz	-53.586 dBm				4	N	f		2.387085 GHz	-47.739 dBm				<p>Frequency</p> <p>Auto Tune</p> <p>Center Freq 2.377500000 GHz</p> <p>Start Freq 2.310000000 GHz</p> <p>Stop Freq 2.445000000 GHz</p> <p>CF Step 13.500000 MHz</p> <p>Freq Offset 0 Hz</p>
MKR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE																																							
1	N	f		2.424548 GHz	-6.384 dBm																																										
2	N	f		2.400000 GHz	-50.329 dBm																																										
3	N	f		2.390000 GHz	-53.586 dBm																																										
4	N	f		2.387085 GHz	-47.739 dBm																																										



11N40SISO/HCH





A.7 Restrict-band band-edge measurements

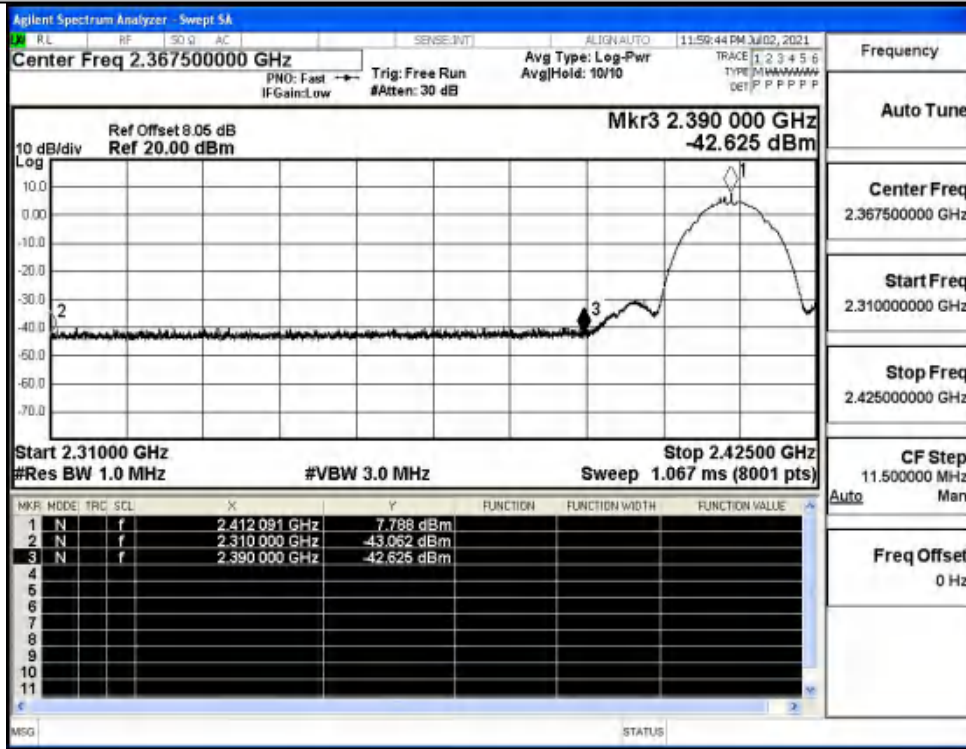
Test Mode	Test Channel	Ant	Freq.	Power [dBm]	Gain	Ground Factor	E [dBuV/m]	Detector	Limit [dBu V/m]	Verdict
11B	2412	Ant1	2310.0	-43.06	2.0	0	54.17	PEAK	74	PASS
	2412	Ant1	2310.0	-53.54	2.0	0	43.69	AV	54	PASS
	2412	Ant1	2390.0	-42.63	2.0	0	54.60	PEAK	74	PASS
	2412	Ant1	2390.0	-52.79	2.0	0	44.44	AV	54	PASS
	2462	Ant1	2483.5	-41.73	2.0	0	55.50	PEAK	74	PASS
	2462	Ant1	2483.5	-52.07	2.0	0	45.16	AV	54	PASS
	2462	Ant1	2500.0	-42.31	2.0	0	54.92	PEAK	74	PASS
	2462	Ant1	2500.0	-52.12	2.0	0	45.11	AV	54	PASS
11G	2412	Ant1	2310.0	-43.74	2.0	0	53.49	PEAK	74	PASS
	2412	Ant1	2310.0	-53.52	2.0	0	43.71	AV	54	PASS
	2412	Ant1	2390.0	-42.30	2.0	0	54.93	PEAK	74	PASS
	2412	Ant1	2390.0	-53.04	2.0	0	44.19	AV	54	PASS
	2462	Ant1	2483.5	-41.15	2.0	0	56.08	PEAK	74	PASS
	2462	Ant1	2483.5	-52.35	2.0	0	44.88	AV	54	PASS
	2462	Ant1	2500.0	-42.11	2.0	0	55.12	PEAK	74	PASS
	2462	Ant1	2500.0	-52.02	2.0	0	45.21	AV	54	PASS
11N20 SISO	2412	Ant1	2310.0	-42.98	2.0	0	54.25	PEAK	74	PASS
	2412	Ant1	2310.0	-53.51	2.0	0	43.72	AV	54	PASS
	2412	Ant1	2390.0	-42.90	2.0	0	54.33	PEAK	74	PASS
	2412	Ant1	2390.0	-53.04	2.0	0	44.19	AV	54	PASS
	2462	Ant1	2483.5	-41.03	2.0	0	56.20	PEAK	74	PASS
	2462	Ant1	2483.5	-52.33	2.0	0	44.90	AV	54	PASS
	2462	Ant1	2500.0	-40.86	2.0	0	56.37	PEAK	74	PASS
	2462	Ant1	2500.0	-52.01	2.0	0	45.22	AV	54	PASS
11N40 SISO	2422	Ant1	2310.0	-43.38	2.0	0	53.85	PEAK	74	PASS
	2422	Ant1	2310.0	-53.52	2.0	0	43.71	AV	54	PASS



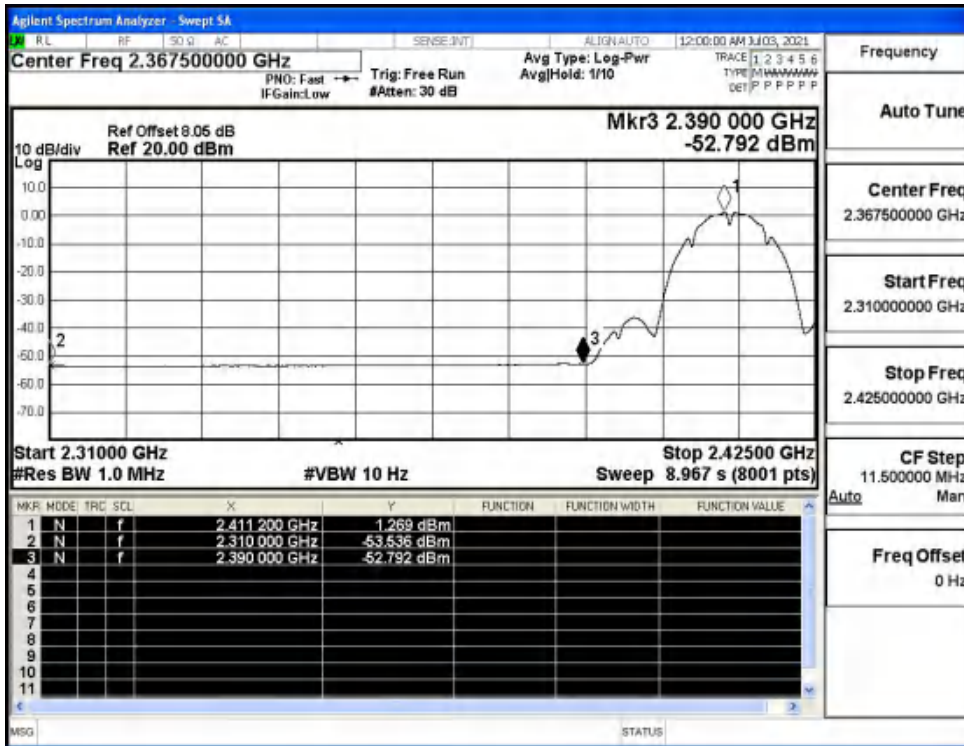
	2422	Ant1	2390.0	-41.23	2.0	0	56.00	PEAK	74	PASS
	2422	Ant1	2390.0	-52.02	2.0	0	45.21	AV	54	PASS
	2452	Ant1	2483.5	-34.02	2.0	0	63.21	PEAK	74	PASS
	2452	Ant1	2483.5	-50.07	2.0	0	47.16	AV	54	PASS
	2452	Ant1	2500.0	-41.72	2.0	0	55.51	PEAK	74	PASS
	2452	Ant1	2500.0	-51.99	2.0	0	45.24	AV	54	PASS



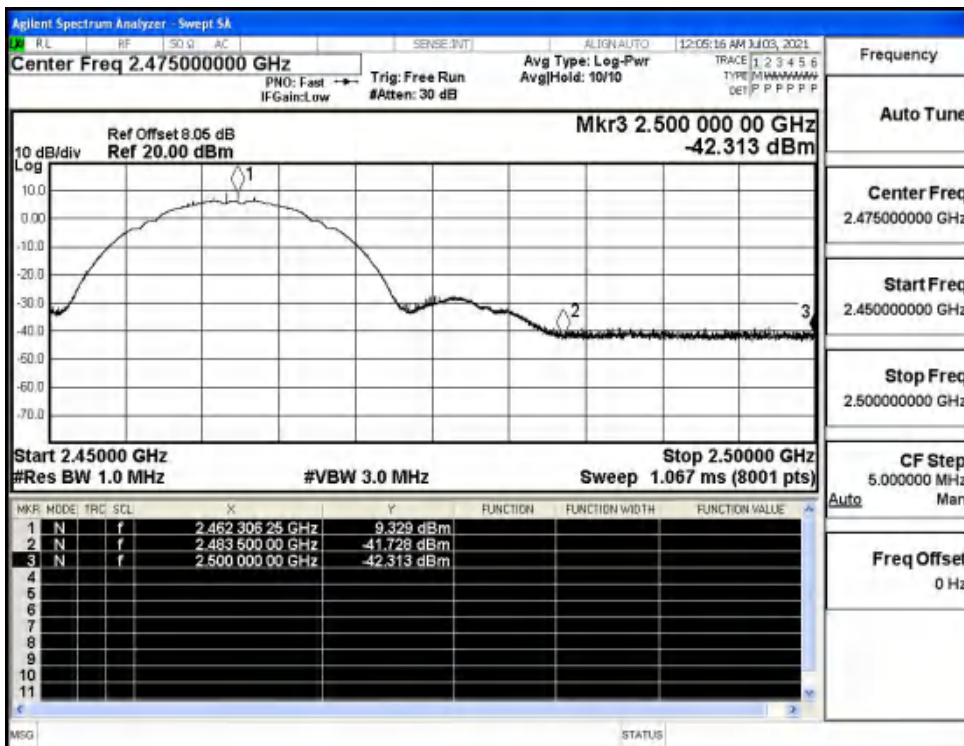
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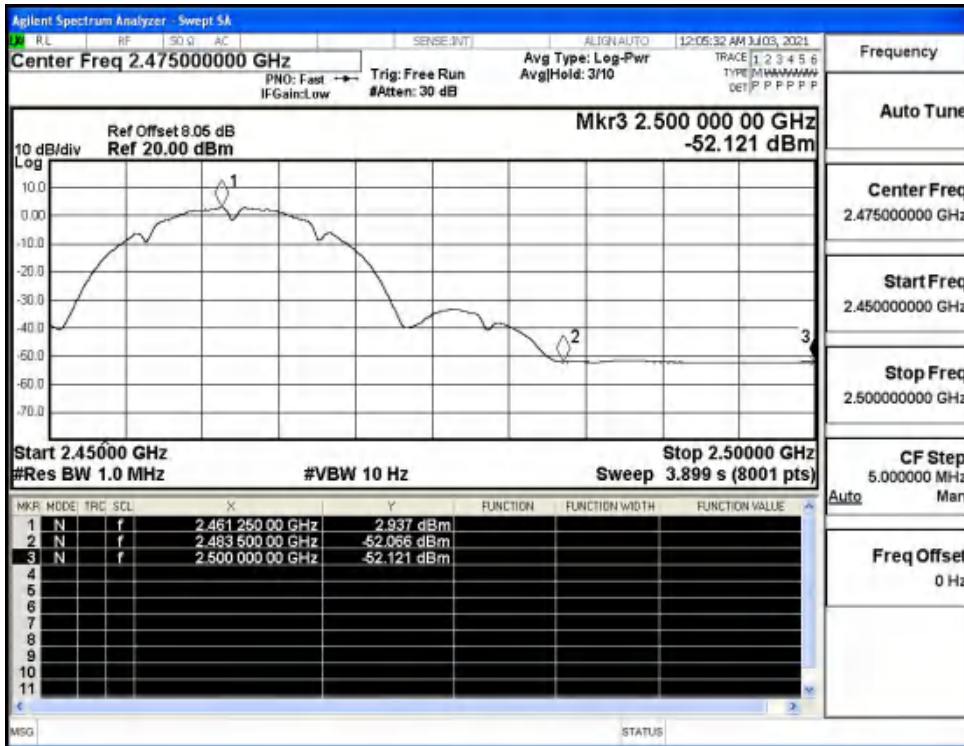
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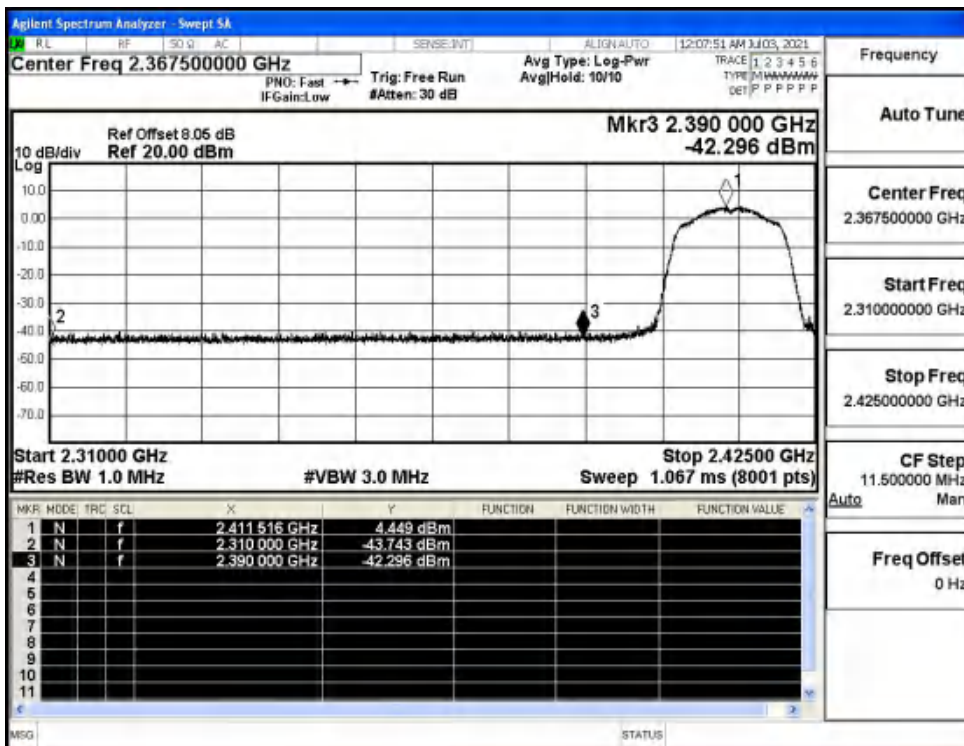
Restrict-band band-edge measurements_11B_2462_Ant1_PEAK



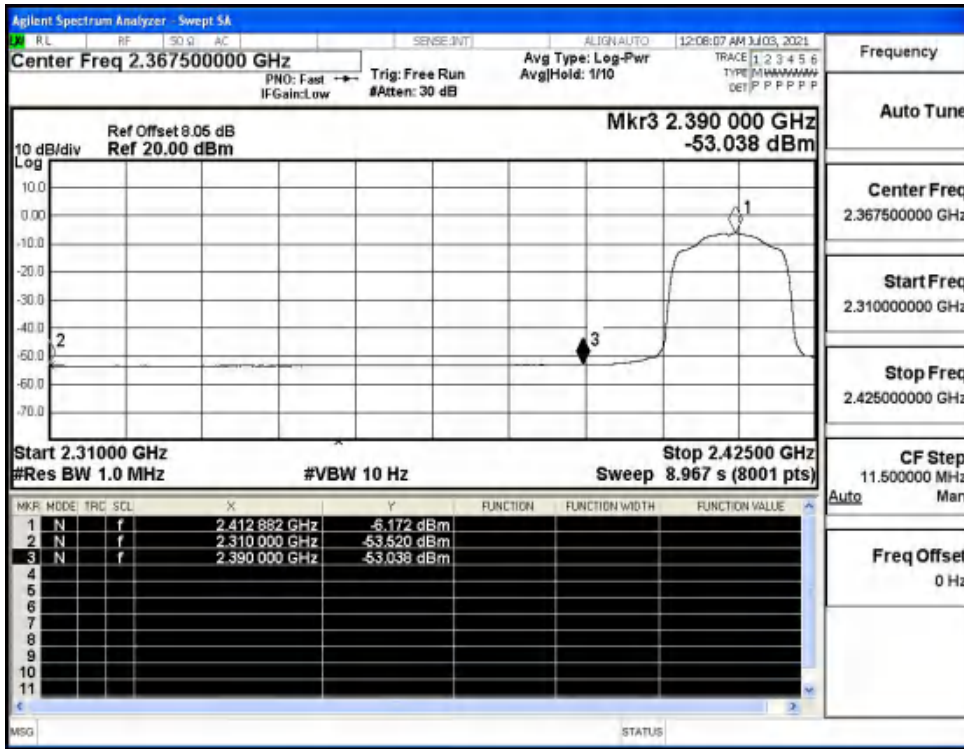
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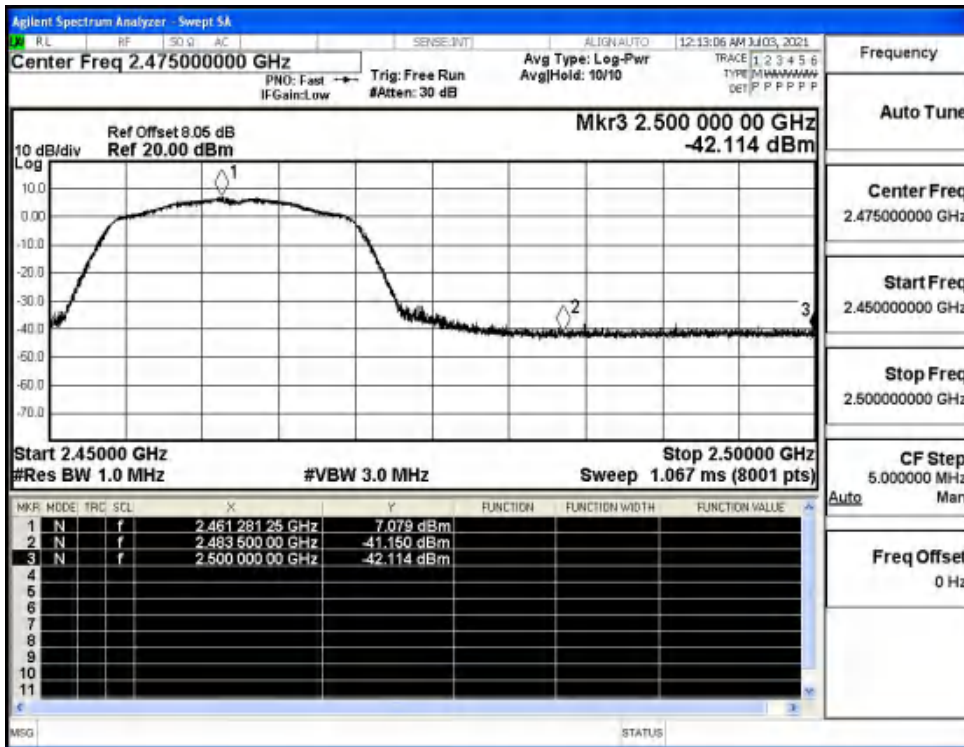
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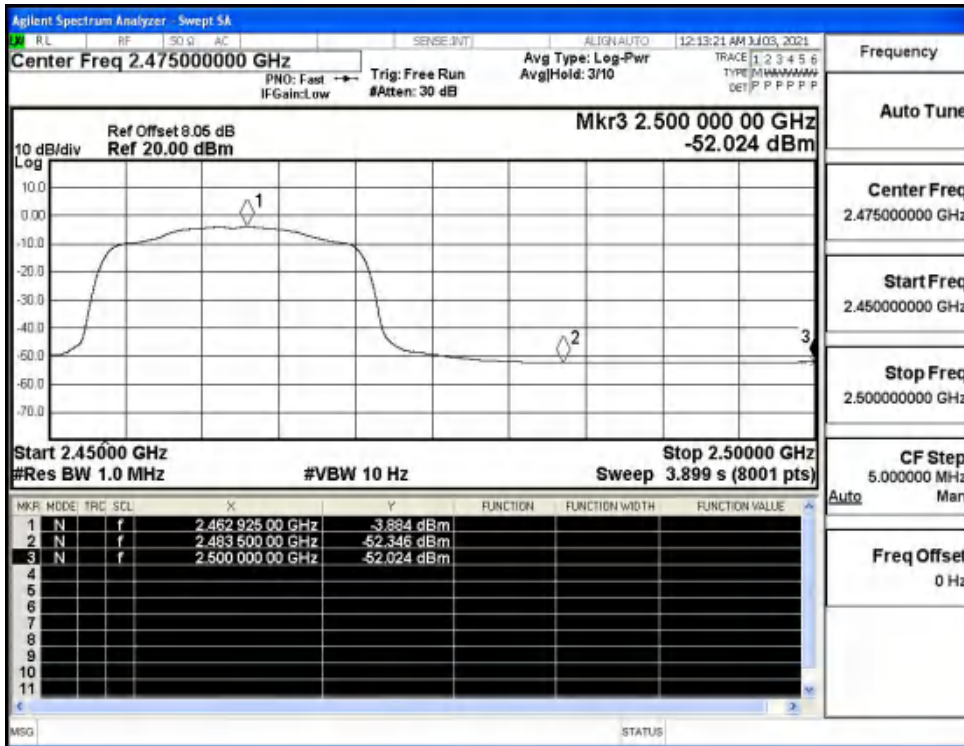
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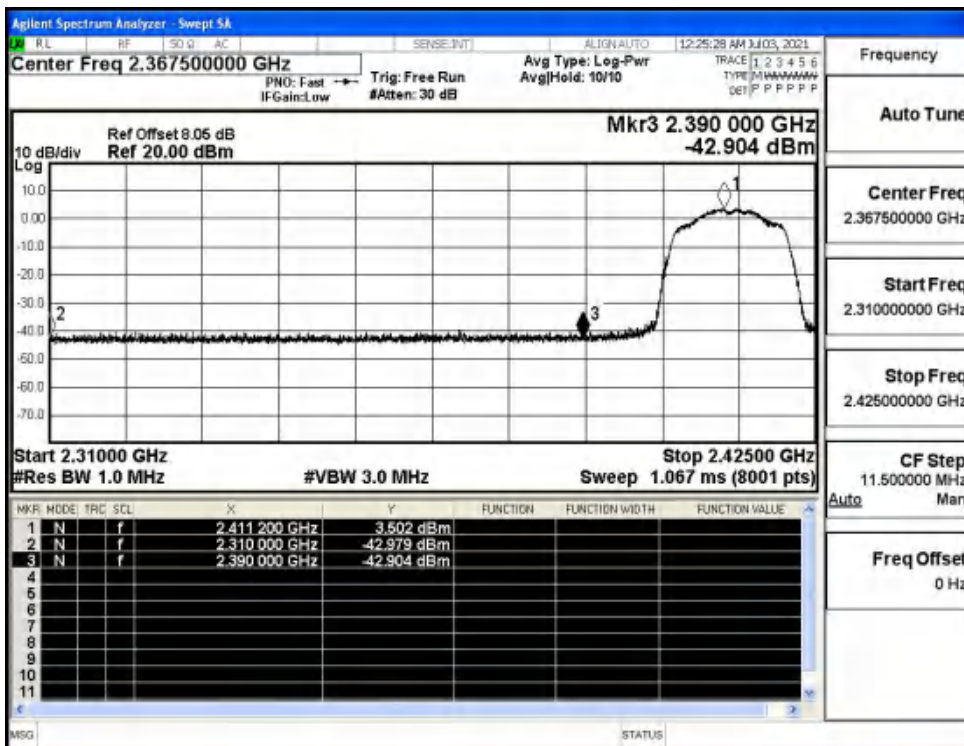
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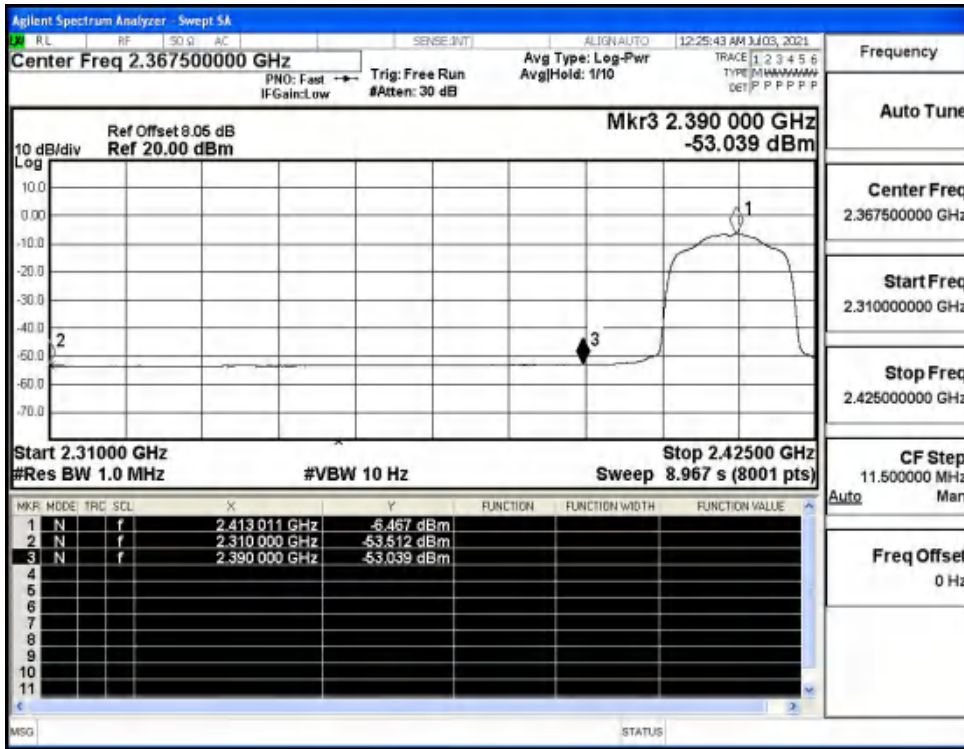
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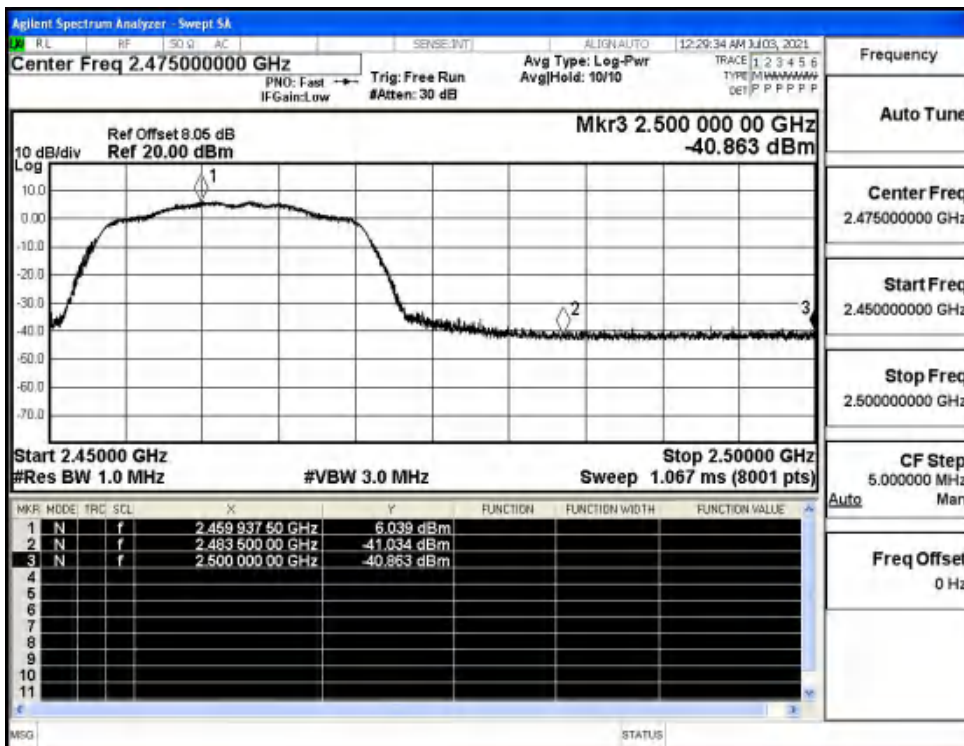
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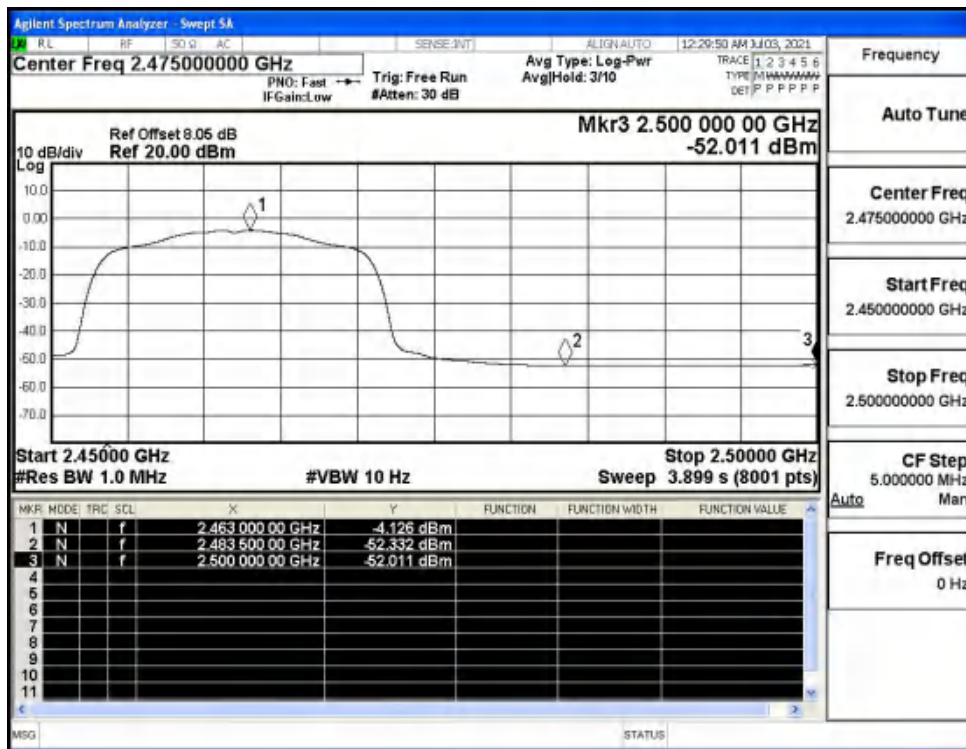
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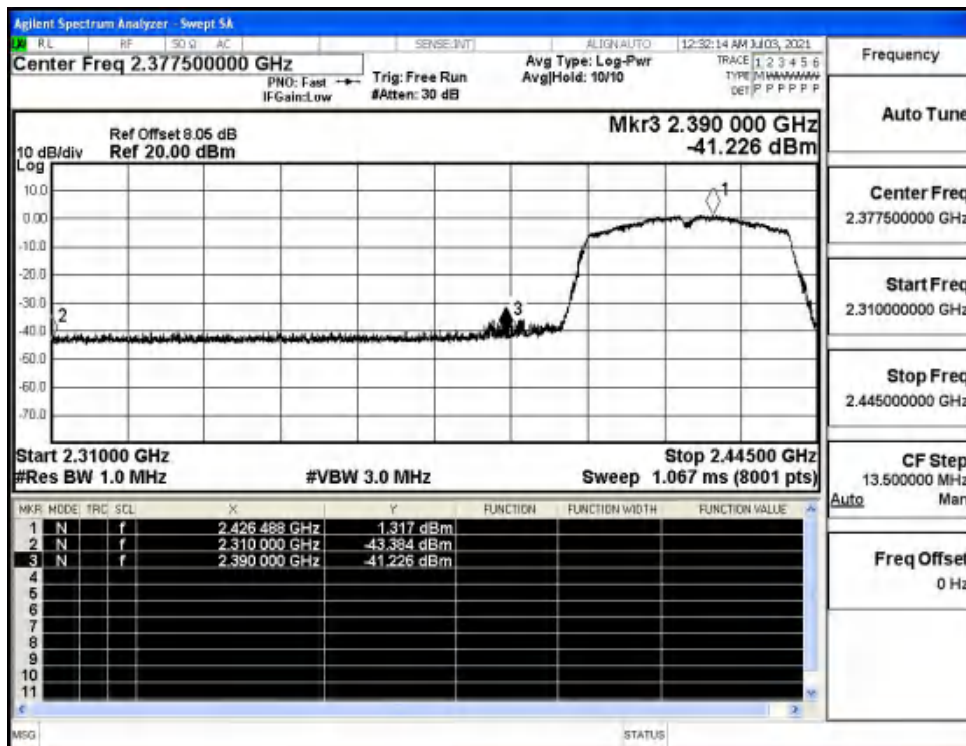
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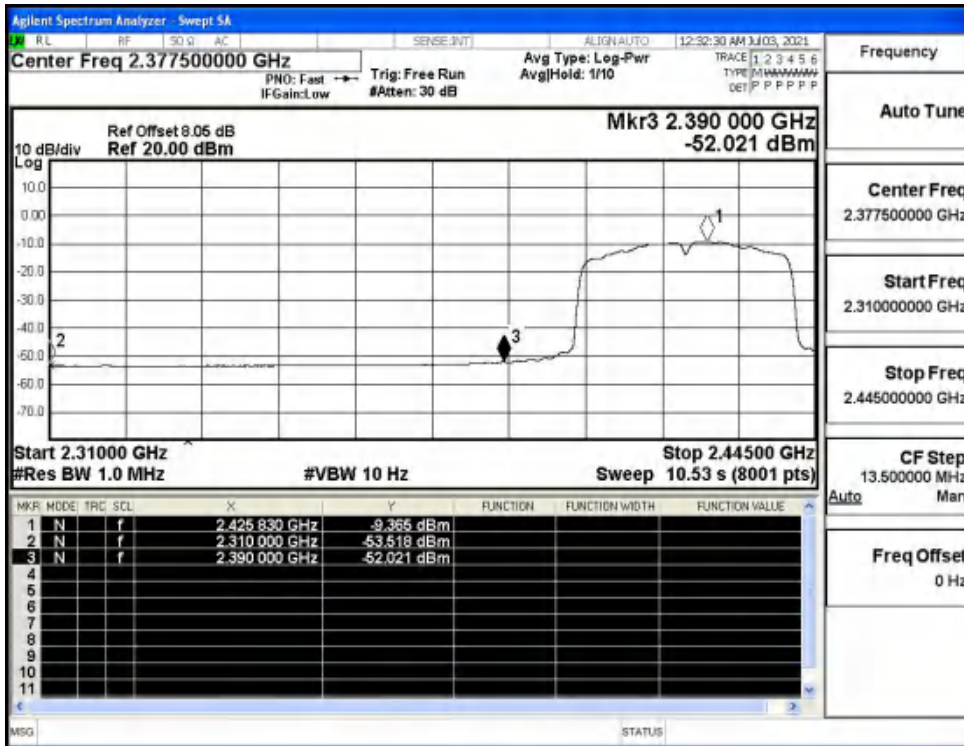
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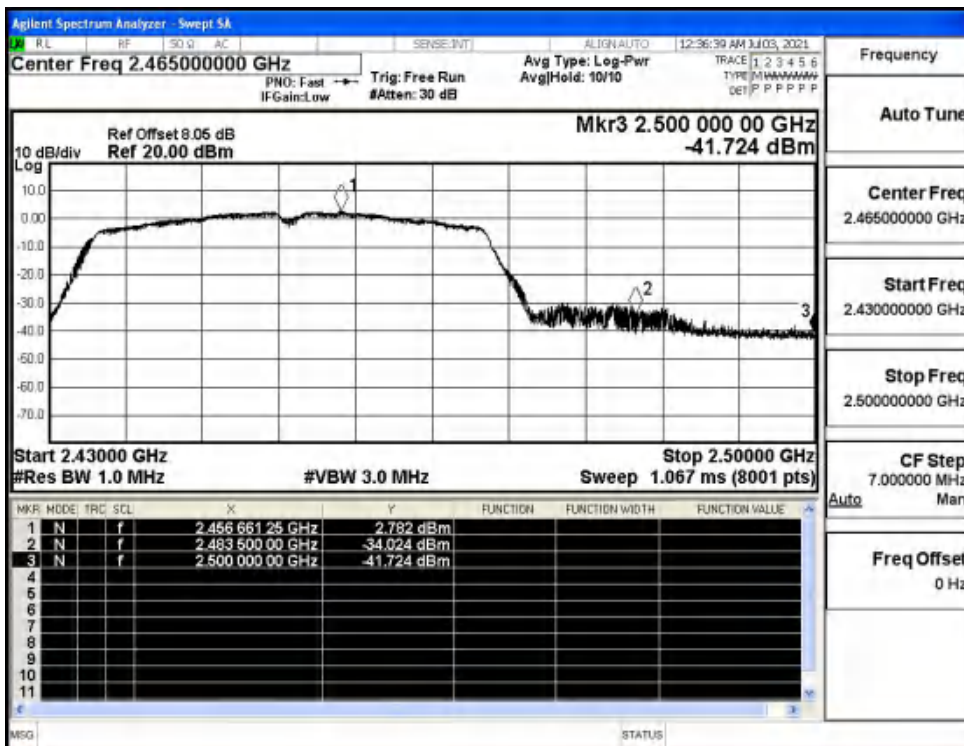
Restrict-band band-edge measurements_11N40SISO_2422_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2422_Ant1_AV



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_PEAK



Restrict-band band-edge measurements_11N40SISO_2452_Ant1_AV

