



Shenzhen GUOREN Certification Technology Service Co., Ltd.

101#, Building K & Building T, The Second Industrial Zone, Jiazitang Community,
Fenghuang Street, Guangming District, Shenzhen, China

FCC ID:2BLJV-R-W52508

GRCTR250802012-02



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5825-PASS

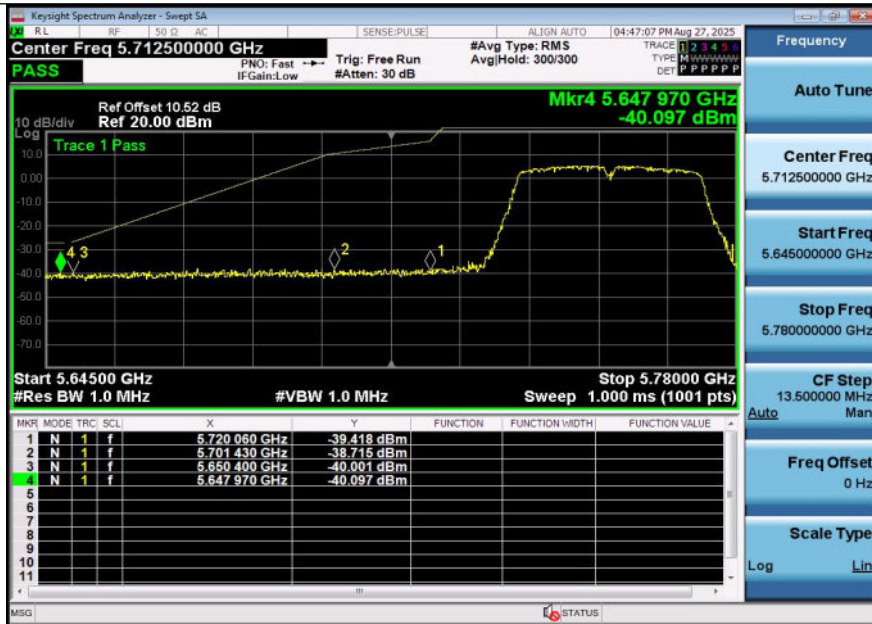


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11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



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11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5825-PASS



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11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS

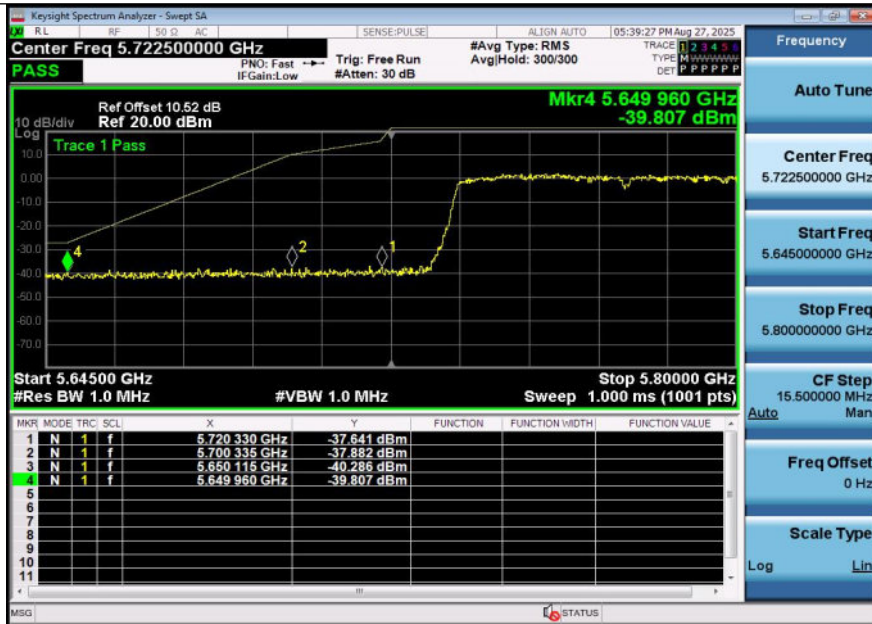


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11AC80SISO-Ant1-5775-PASS



11AC80SISO-Ant1-5775-PASS

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Test Result B1/2/3

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-33.49	≤ -27	PASS
11A	Ant2	High	5320	-34.63	≤ -27	PASS
11A	Ant2	Low	5500	-34.51	≤ -27	PASS
11A	Ant2	High	5700	-33.45	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-33.73	≤ -27	PASS
11N20SISO	Ant2	High	5320	-34.77	≤ -27	PASS
11N20SISO	Ant2	Low	5500	-33.94	≤ -27	PASS
11N20SISO	Ant2	High	5700	-34.26	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-32.24	≤ -27	PASS
11N40SISO	Ant2	High	5310	-34.09	≤ -27	PASS
11N40SISO	Ant2	Low	5510	-33.15	≤ -27	PASS
11N40SISO	Ant2	High	5670	-33.67	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-33.86	≤ -27	PASS
11AC20SISO	Ant2	High	5320	-35.51	≤ -27	PASS
11AC20SISO	Ant2	Low	5500	-34.47	≤ -27	PASS
11AC20SISO	Ant2	High	5700	-33.97	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-33.24	≤ -27	PASS
11AC40SISO	Ant2	High	5310	-34.29	≤ -27	PASS
11AC40SISO	Ant2	Low	5510	-31.58	≤ -27	PASS
11AC40SISO	Ant2	High	5670	-34.02	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-32.44	≤ -27	PASS
11AC80SISO	Ant2	High	5290	-34.14	≤ -27	PASS
11AC80SISO	Ant2	Low	5530	-33.26	≤ -27	PASS
11AC80SISO	Ant2	High	5610	-34.85	≤ -27	PASS

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Test Result B4

Test Mode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5720~5725	-39.04	≤15.82	PASS
11A	Ant2	Low	5745	5700~5720	-38.74	≤10.86	PASS
11A	Ant2	Low	5745	5650~5700	-40.02	≤-25.17	PASS
11A	Ant2	Low	5745	5760~5650	-39.91	≤-27	PASS
11A	Ant2	High	5825	5850~5855	-40.96	≤16.03	PASS
11A	Ant2	High	5825	5855~5875	-38.3	≤10.66	PASS
11A	Ant2	High	5825	5875~5925	-39.81	≤-26.51	PASS
11A	Ant2	High	5825	5925~5935	-39.75	≤-27	PASS
11N20SISO	Ant2	Low	5745	5720~5725	-38.38	≤16.34	PASS
11N20SISO	Ant2	Low	5745	5700~5720	-37.73	≤10.44	PASS
11N20SISO	Ant2	Low	5745	5650~5700	-39.46	≤-25.51	PASS
11N20SISO	Ant2	Low	5745	5760~5650	-39.14	≤-27	PASS
11N20SISO	Ant2	High	5825	5850~5855	-39.21	≤17.26	PASS
11N20SISO	Ant2	High	5825	5855~5875	-39.93	≤10.17	PASS
11N20SISO	Ant2	High	5825	5875~5925	-40.77	≤-26.71	PASS
11N20SISO	Ant2	High	5825	5925~5935	-38.69	≤-27	PASS
11N40SISO	Ant2	Low	5755	5720~5725	-37.65	≤16.35	PASS
11N40SISO	Ant2	Low	5755	5700~5720	-38.61	≤10.51	PASS
11N40SISO	Ant2	Low	5755	5650~5700	-40.56	≤-26.90	PASS
11N40SISO	Ant2	Low	5755	5780~5650	-39.13	≤-27	PASS
11N40SISO	Ant2	High	5795	5850~5855	-40.26	≤15.66	PASS
11N40SISO	Ant2	High	5795	5855~5875	-39.93	≤10.02	PASS
11N40SISO	Ant2	High	5795	5875~5925	-39.87	≤-26.83	PASS
11N40SISO	Ant2	High	5795	5925~5935	-38.4	≤-27	PASS
11AC20SISO	Ant2	Low	5745	5720~5725	-37.24	≤16.87	PASS
11AC20SISO	Ant2	Low	5745	5700~5720	-38.62	≤10.28	PASS
11AC20SISO	Ant2	Low	5745	5650~5700	-40.11	≤-26.79	PASS
11AC20SISO	Ant2	Low	5745	5760~5650	-38.67	≤-27	PASS
11AC20SISO	Ant2	High	5825	5850~5855	-39.87	≤16.03	PASS
11AC20SISO	Ant2	High	5825	5855~5875	-38.03	≤10.85	PASS
11AC20SISO	Ant2	High	5825	5875~5925	-40.62	≤-26.91	PASS
11AC20SISO	Ant2	High	5825	5925~5935	-38.95	≤-27	PASS
11AC40SISO	Ant2	Low	5755	5720~5725	-38.41	≤16.04	PASS
11AC40SISO	Ant2	Low	5755	5700~5720	-37.17	≤10.70	PASS
11AC40SISO	Ant2	Low	5755	5650~5700	-39.33	≤-26.20	PASS
11AC40SISO	Ant2	Low	5755	5780~5650	-39.17	≤-27	PASS
11AC40SISO	Ant2	High	5795	5850~5855	-38.89	≤16.03	PASS



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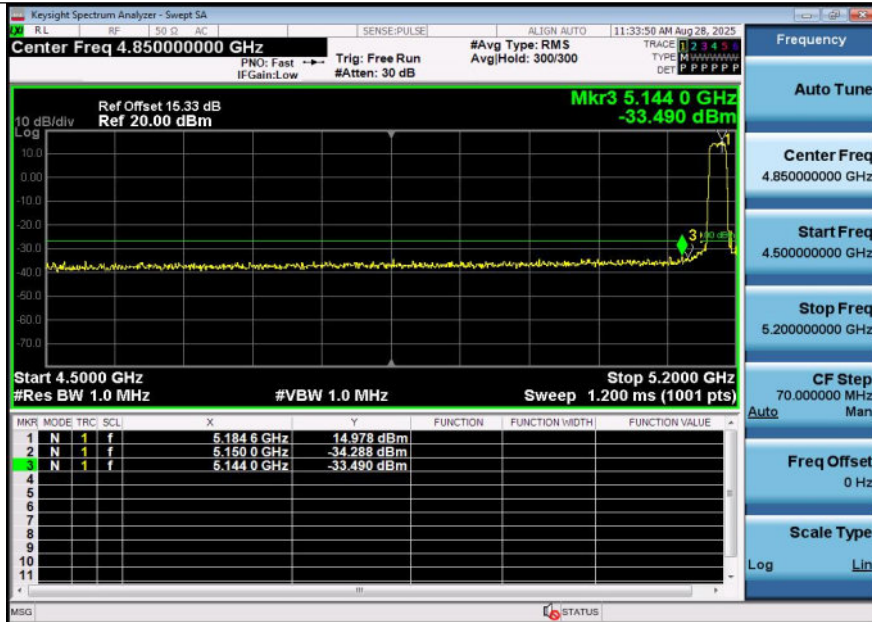
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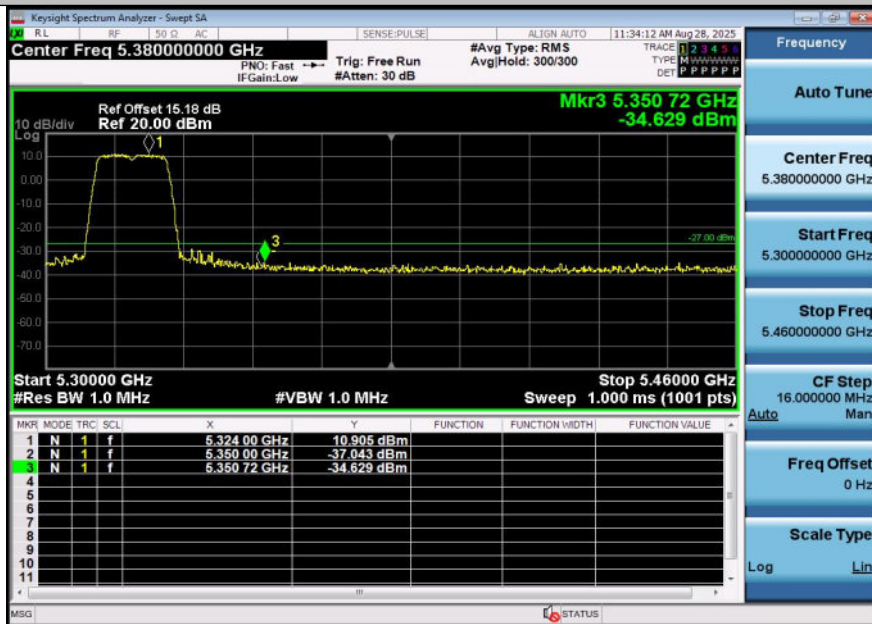
11AC40SISO	Ant2	High	5795	5855~5875	-40.2	≤10.16	PASS
11AC40SISO	Ant2	High	5795	5875~5925	-39.66	≤-26.71	PASS
11AC40SISO	Ant2	High	5795	5925~5935	-39.84	≤-27	PASS
11AC80SISO	Ant2	Low	5775	5720~5725	-38.82	≤15.65	PASS
11AC80SISO	Ant2	Low	5775	5700~5720	-38.02	≤10.31	PASS
11AC80SISO	Ant2	Low	5775	5650~5700	-39.4	≤-26.80	PASS
11AC80SISO	Ant2	Low	5775	5800~5650	-38.59	≤-27	PASS
11AC80SISO	Ant2	High	5775	5850~5855	-40.13	≤16.26	PASS
11AC80SISO	Ant2	High	5775	5855~5875	-38.88	≤10.50	PASS
11AC80SISO	Ant2	High	5775	5875~5925	-40.38	≤-26.19	PASS
11AC80SISO	Ant2	High	5775	5925~5935	-38.34	≤-27	PASS



Test Graphs B1/2/3



11A-Ant2-5180-PASS



11A-Ant2-5320-PASS



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11A-Ant2-5500-PASS



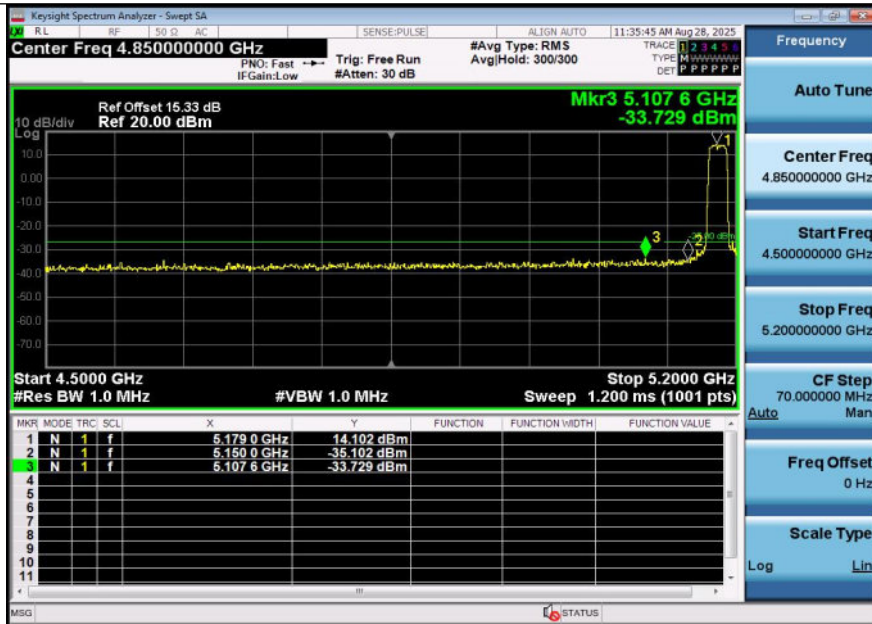
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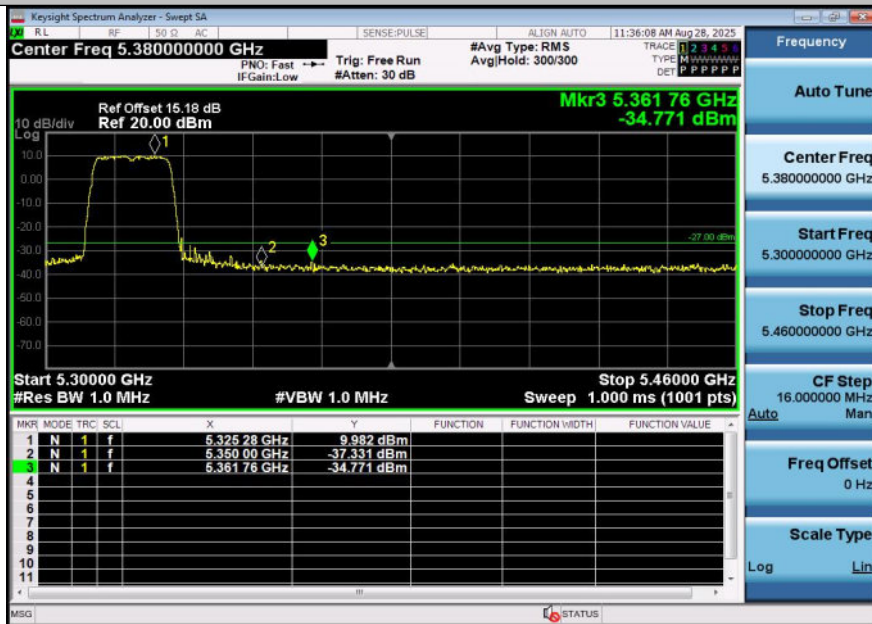
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11N20SISO-Ant2-5180-PASS



11N20SISO-Ant2-5320-PASS

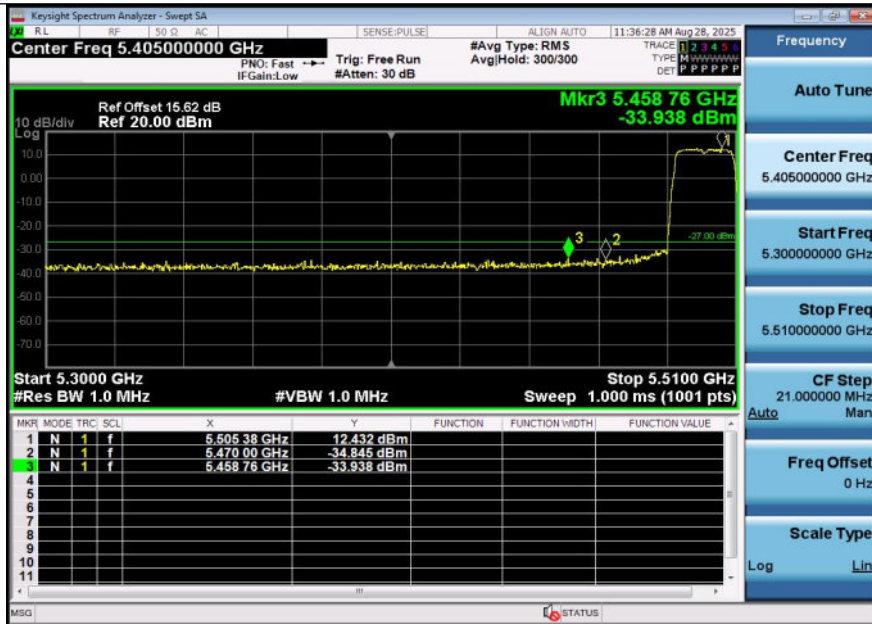


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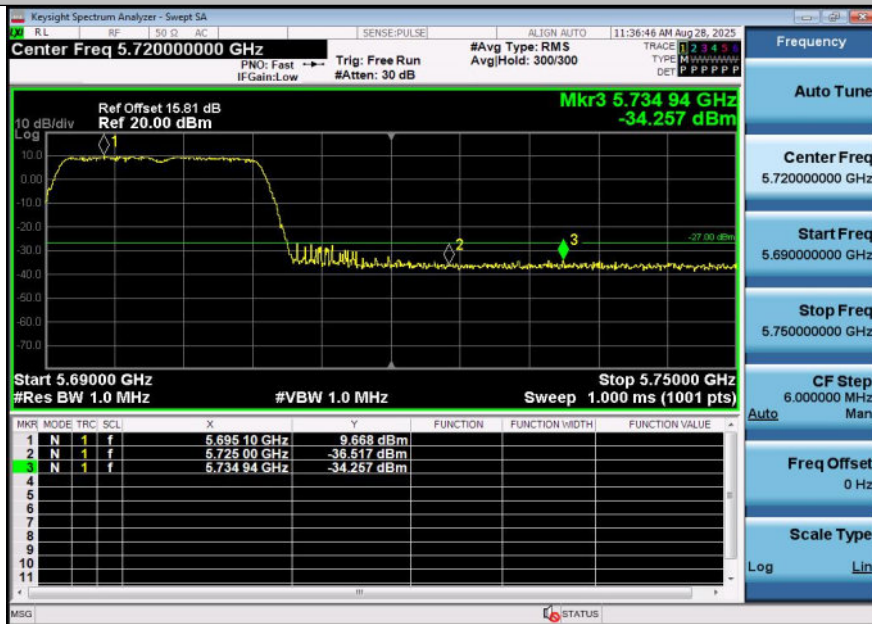
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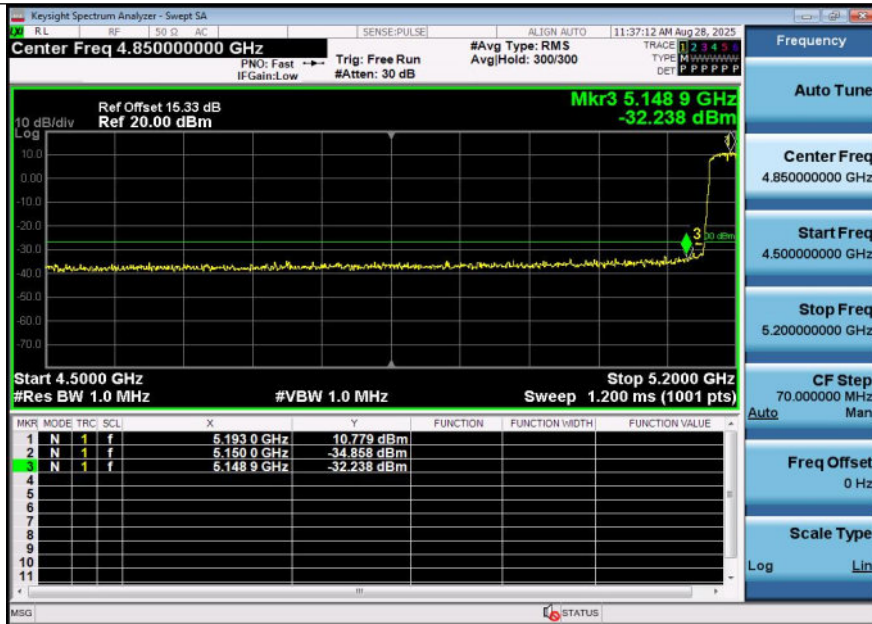
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11N40SISO-Ant2-5190-PASS



11N40SISO-Ant2-5310-PASS

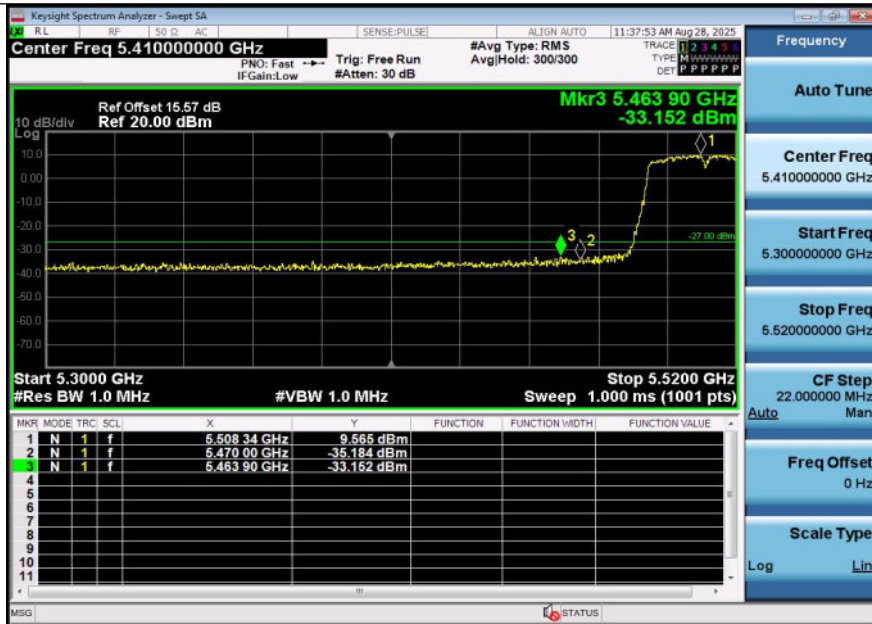


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11N40SISO-Ant2-5510-PASS



11N40SISO-Ant2-5670-PASS

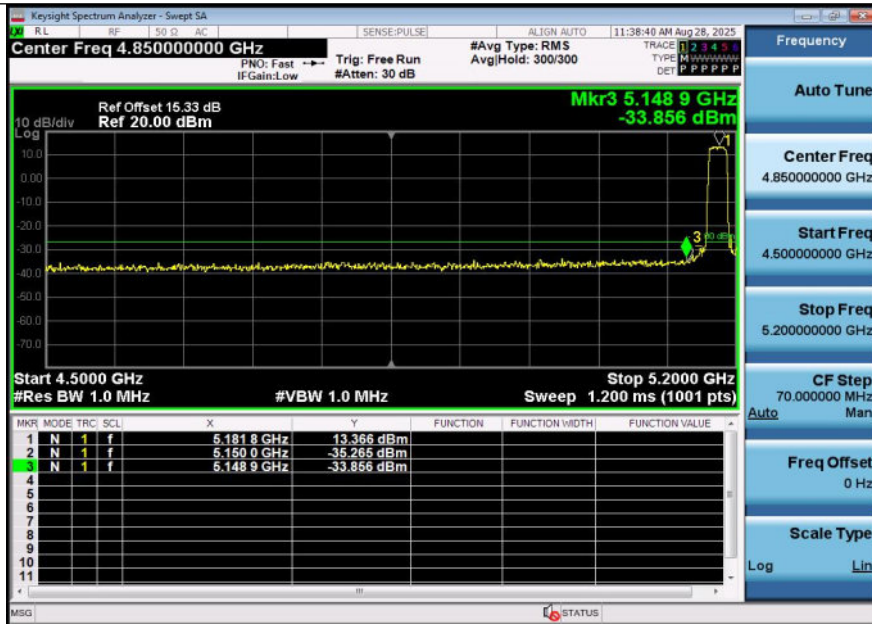


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11AC20SISO-Ant2-5180-PASS



11AC20SISO-Ant2-5320-PASS



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11AC20SISO-Ant2-5500-PASS



11AC20SISO-Ant2-5700-PASS

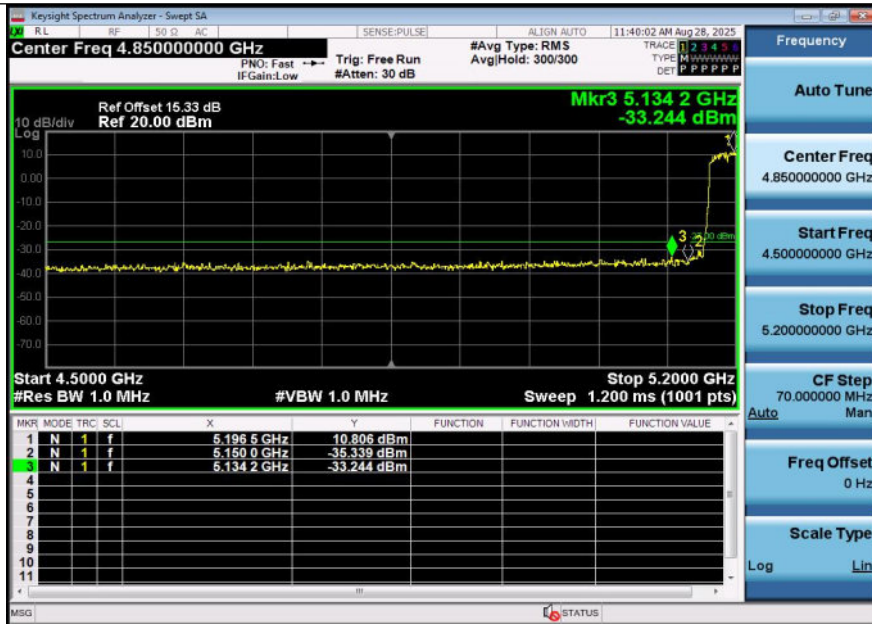


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11AC40SISO-Ant2-5310-PASS

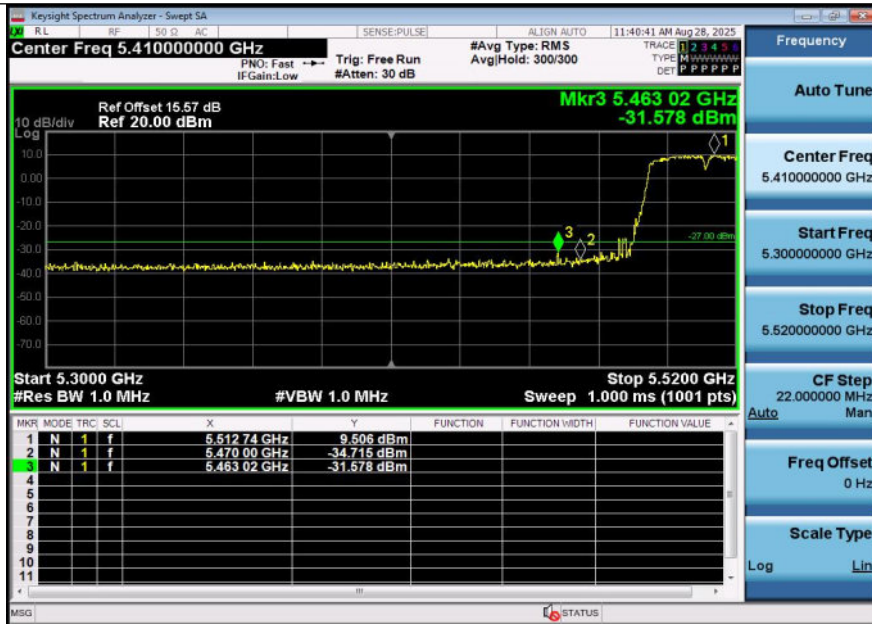


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11AC40SISO-Ant2-5510-PASS



11AC40SISO-Ant2-5670-PASS



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11AC80SISO-Ant2-5210-PASS



11AC80SISO-Ant2-5290-PASS

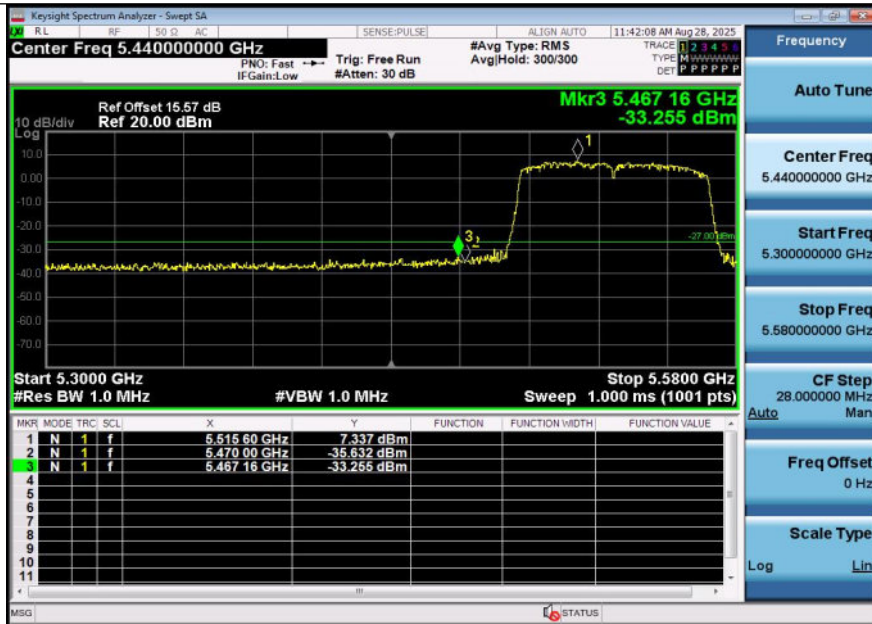


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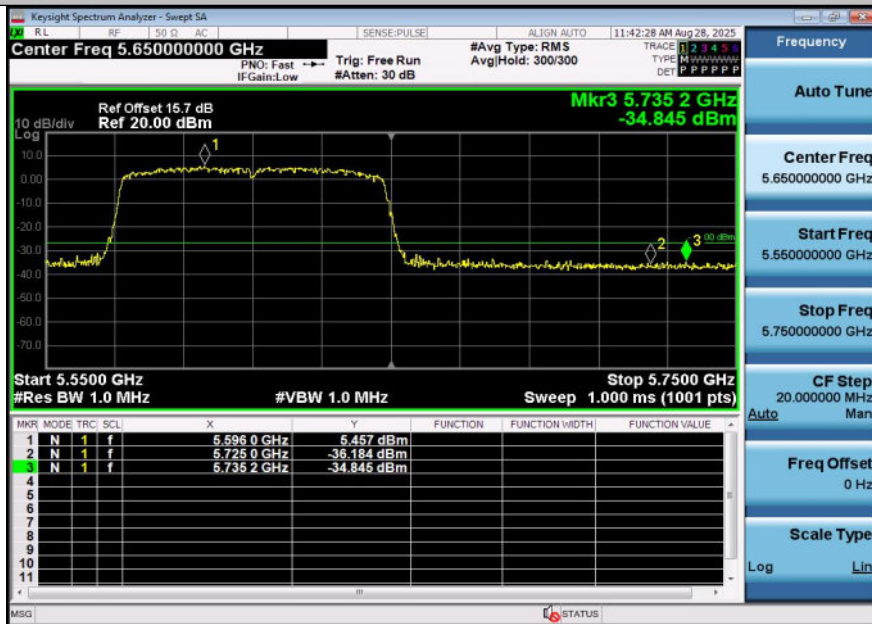
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11AC80SISO-Ant2-5530-PASS



11AC80SISO-Ant2-5610-PASS



Test Graphs B4



11A-Ant2-5745-PASS



11A-Ant2-5825-PASS



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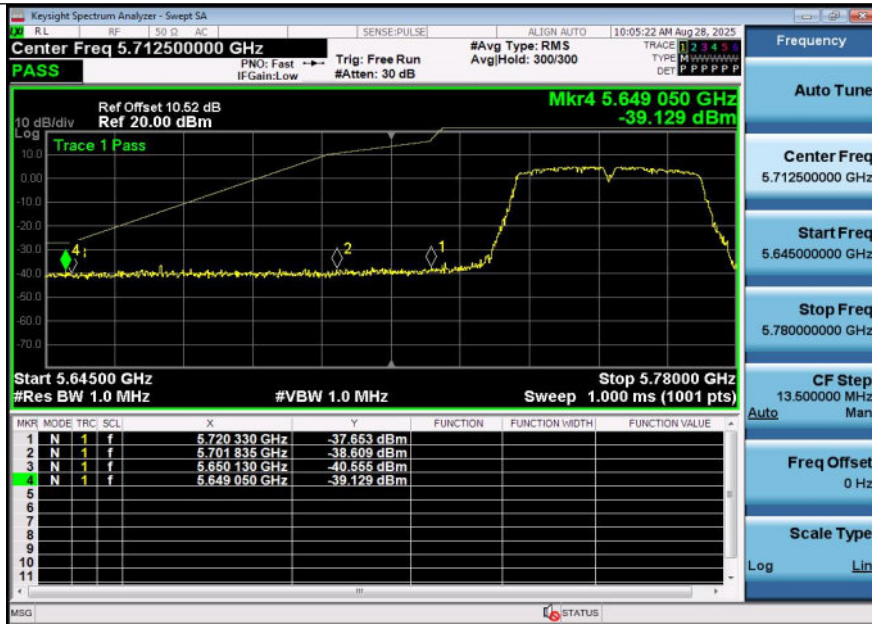
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11N40SISO-Ant2-5795-PASS



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11AC20SISO-Ant2-5825-PASS

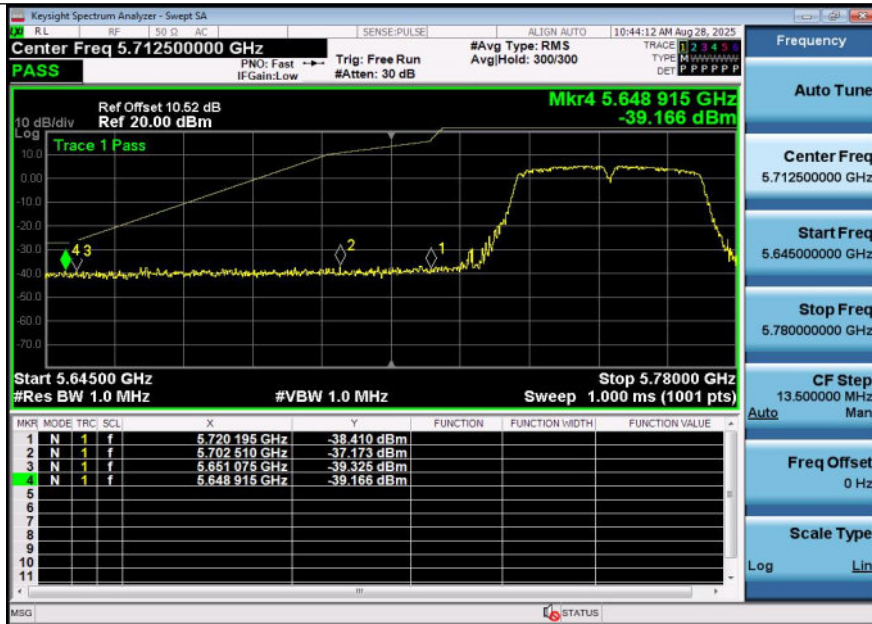


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11AC40SISO-Ant2-5795-PASS

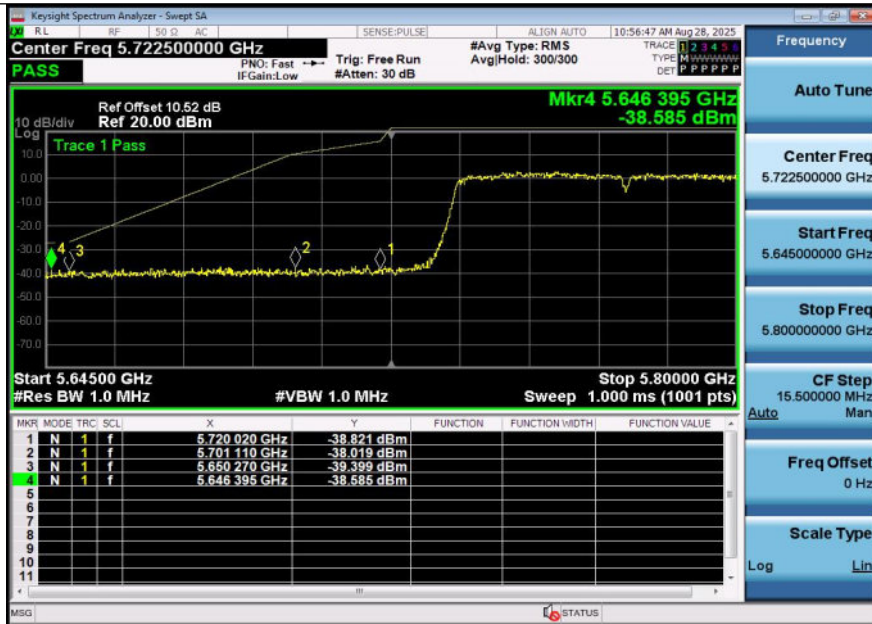


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11AC80SISO-Ant2-5775-PASS



11AC80SISO-Ant2-5775-PASS



Appendix F: Frequency Stability

Test Result

Ant 1

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	157.84	0.03047	Within the band of operation	Pass
	-20	146.25	0.02823		
	-10	160.43	0.03097		
	0	137.58	0.02656		
	10	130.92	0.02527		
	20	144.65	0.02792		
	30	135.73	0.02620		
	40	155.26	0.02997		
	50	171.54	0.03312		
13.2	20	161.67	0.03121	Within the band of operation	Pass
10.8	20	158.39	0.03058		

Reference Frequency: 802.11ac channel=52 frequency=5260MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	146.27	0.02781	Within the band of operation	Pass
	-20	158.92	0.03021		
	-10	143.76	0.02733		
	0	166.29	0.03161		
	10	163.48	0.03108		
	20	157.29	0.02990		
	30	151.63	0.02883		
	40	140.59	0.02673		
	50	144.73	0.02752		
13.2	20	138.94	0.02641	Within the band of operation	Pass
10.8	20	135.25	0.02571		

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Reference Frequency: 802.11ac channel=100 frequency=5500MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	167.47	0.03045	Within the band of operation	Pass
	-20	143.26	0.02605		
	-10	155.08	0.02820		
	0	140.21	0.02549		
	10	151.73	0.02759		
	20	152.69	0.02776		
	30	143.57	0.02610		
	40	144.62	0.02629		
	50	130.07	0.02365		
13.2	20	133.84	0.02433	Within the band of operation	Pass
10.8	20	136.94	0.02490		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	152.72	0.02658	Within the band of operation	Pass
	-20	161.24	0.02807		
	-10	142.83	0.02486		
	0	159.41	0.02775		
	10	140.05	0.02438		
	20	136.61	0.02378		
	30	132.09	0.02299		
	40	143.82	0.02503		
	50	144.67	0.02518		
13.2	20	139.27	0.02424	Within the band of operation	Pass
10.8	20	132.08	0.02299		

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Ant 2

Reference Frequency: 802.11ac channel=36 frequency=5180MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	130.27	0.02515	Within the band of operation	Pass
	-20	129.54	0.02501		
	-10	138.71	0.02678		
	0	140.93	0.02721		
	10	144.27	0.02785		
	20	134.19	0.02591		
	30	150.58	0.02907		
	40	153.47	0.02963		
	50	146.18	0.02822		
13.2	20	140.15	0.02706	Within the band of operation	Pass
10.8	20	136.48	0.02635		

Reference Frequency: 802.11ac channel=52 frequency=5260MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	128.46	0.02442	Within the band of operation	Pass
	-20	133.09	0.02530		
	-10	137.51	0.02614		
	0	145.82	0.02772		
	10	150.73	0.02866		
	20	148.29	0.02819		
	30	141.98	0.02699		
	40	160.52	0.03052		
	50	164.75	0.03132		
13.2	20	154.27	0.02933	Within the band of operation	Pass
10.8	20	136.84	0.02602		

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Reference Frequency: 802.11ac channel=100 frequency=5500MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	151.78	0.02760	Within the band of operation	Pass
	-20	137.48	0.02500		
	-10	131.07	0.02383		
	0	146.59	0.02665		
	10	153.27	0.02787		
	20	144.79	0.02633		
	30	135.07	0.02456		
	40	129.34	0.02352		
	50	130.85	0.02379		
13.2	20	147.37	0.02679	Within the band of operation	Pass
10.8	20	150.21	0.02731		

Reference Frequency: 802.11ac channel=149 frequency=5745MHz					
Voltage (V)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
12.0	-30	163.84	0.02852	Within the band of operation	Pass
	-20	162.53	0.02829		
	-10	149.26	0.02598		
	0	158.35	0.02756		
	10	141.29	0.02459		
	20	132.87	0.02313		
	30	146.29	0.02546		
	40	135.61	0.02360		
	50	148.43	0.02584		
13.2	20	152.08	0.02647	Within the band of operation	Pass
10.8	20	147.26	0.02563		