

## Appendix Test Data

Report No.:	18220WC20042201	Test Sample No.:	1-2-2
Start Test Date:	2022.3.3	Finish Test Date:	2022.3.7
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	22.6°C	Relative Humidity:	54.7 %
Pressure:	1012 hPa		

## Appendix A: 20dB Emission Bandwidth

## Test Result

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.945	2401.541	2402.486	---	PASS
		2441	0.948	2440.538	2441.486	---	PASS
		2480	0.942	2479.541	2480.483	---	PASS
2DH5	Ant1	2402	1.347	2401.331	2402.678	---	PASS
		2441	1.269	2440.367	2441.636	---	PASS
		2480	1.320	2479.340	2480.660	---	PASS
3DH5	Ant1	2402	1.329	2401.331	2402.660	---	PASS
		2441	1.329	2440.334	2441.663	---	PASS
		2480	1.275	2479.352	2480.627	---	PASS

## Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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### 2DH5\_Ant1\_2480



### 3DH5\_Ant1\_2402



### 3DH5\_Ant1\_2441

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3DH5\_Ant1\_2480



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## Appendix B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89386	2401.55 6	2402.450	---	PASS
		2441	0.89158	2440.55 5	2441.447	---	PASS
		2480	0.89639	2479.55 2	2480.448	---	PASS
2DH5	Ant1	2402	1.2000	2401.40 1	2402.601	---	PASS
		2441	1.1926	2440.40 7	2441.599	---	PASS
		2480	1.1932	2479.40 6	2480.599	---	PASS
3DH5	Ant1	2402	1.2090	2401.38 8	2402.597	---	PASS
		2441	1.2134	2440.38 5	2441.598	---	PASS
		2480	1.2010	2479.39 3	2480.594	---	PASS





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



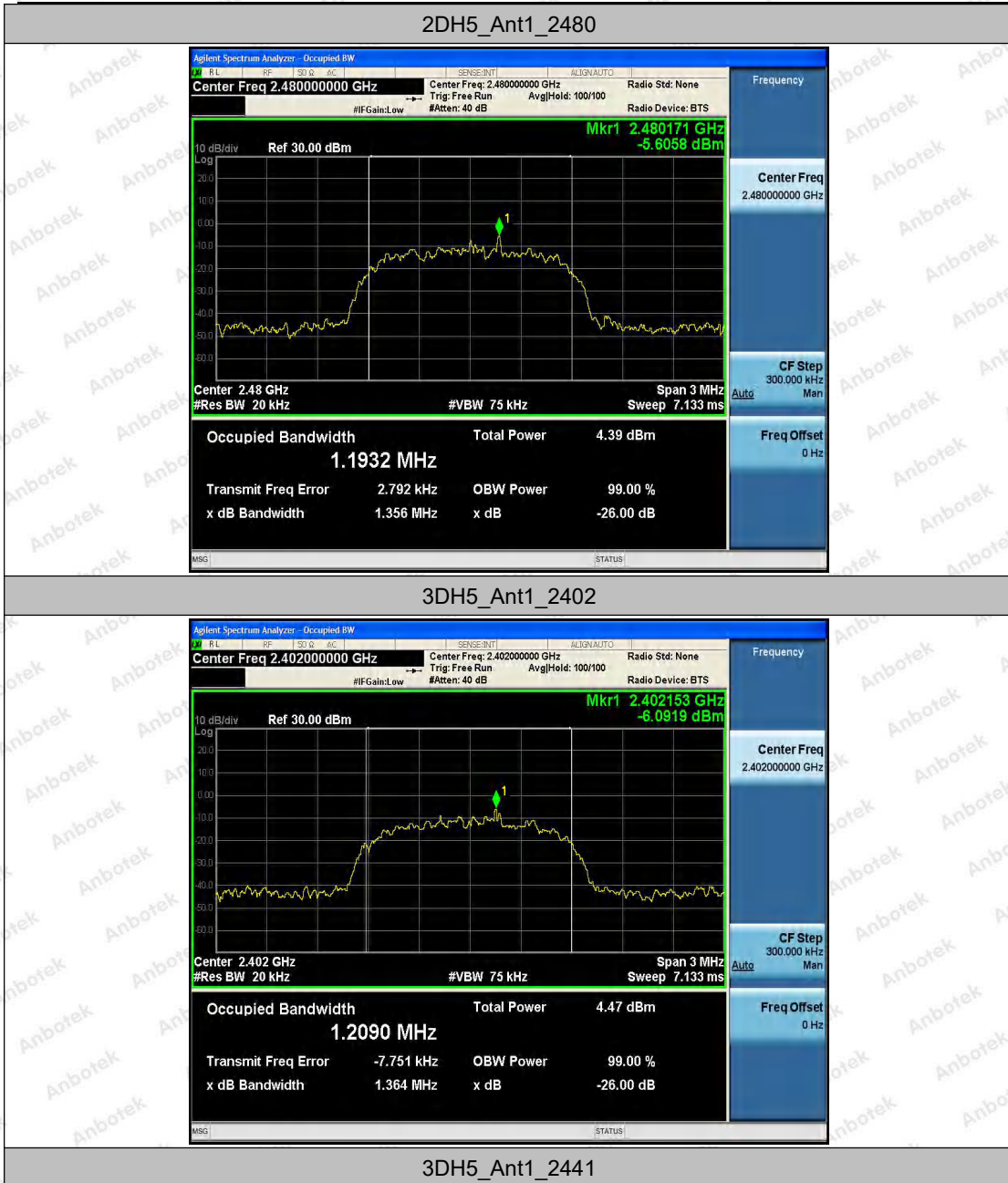
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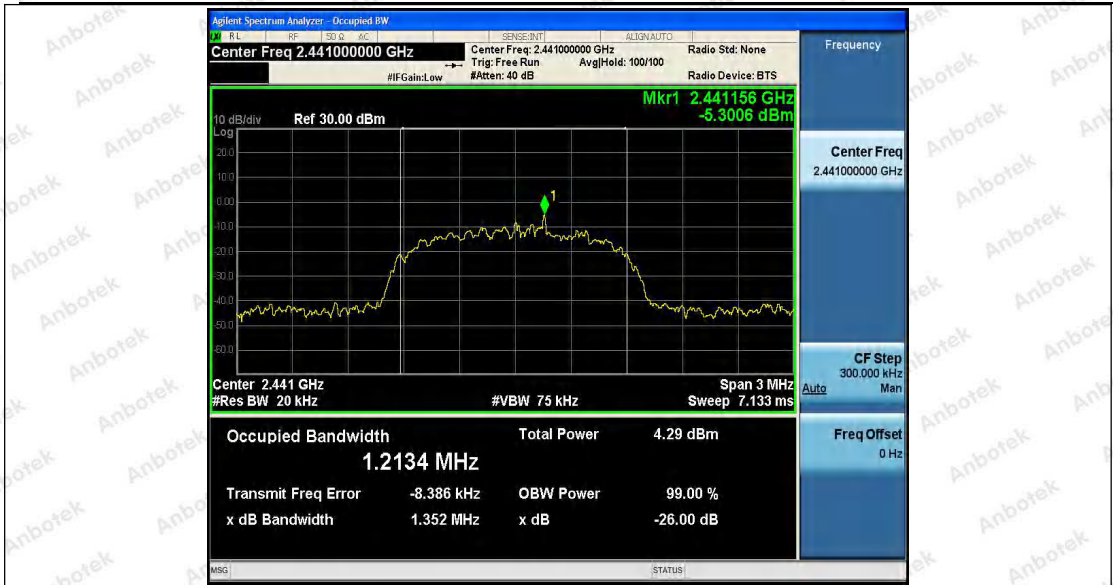


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3DH5\_Ant1\_2480



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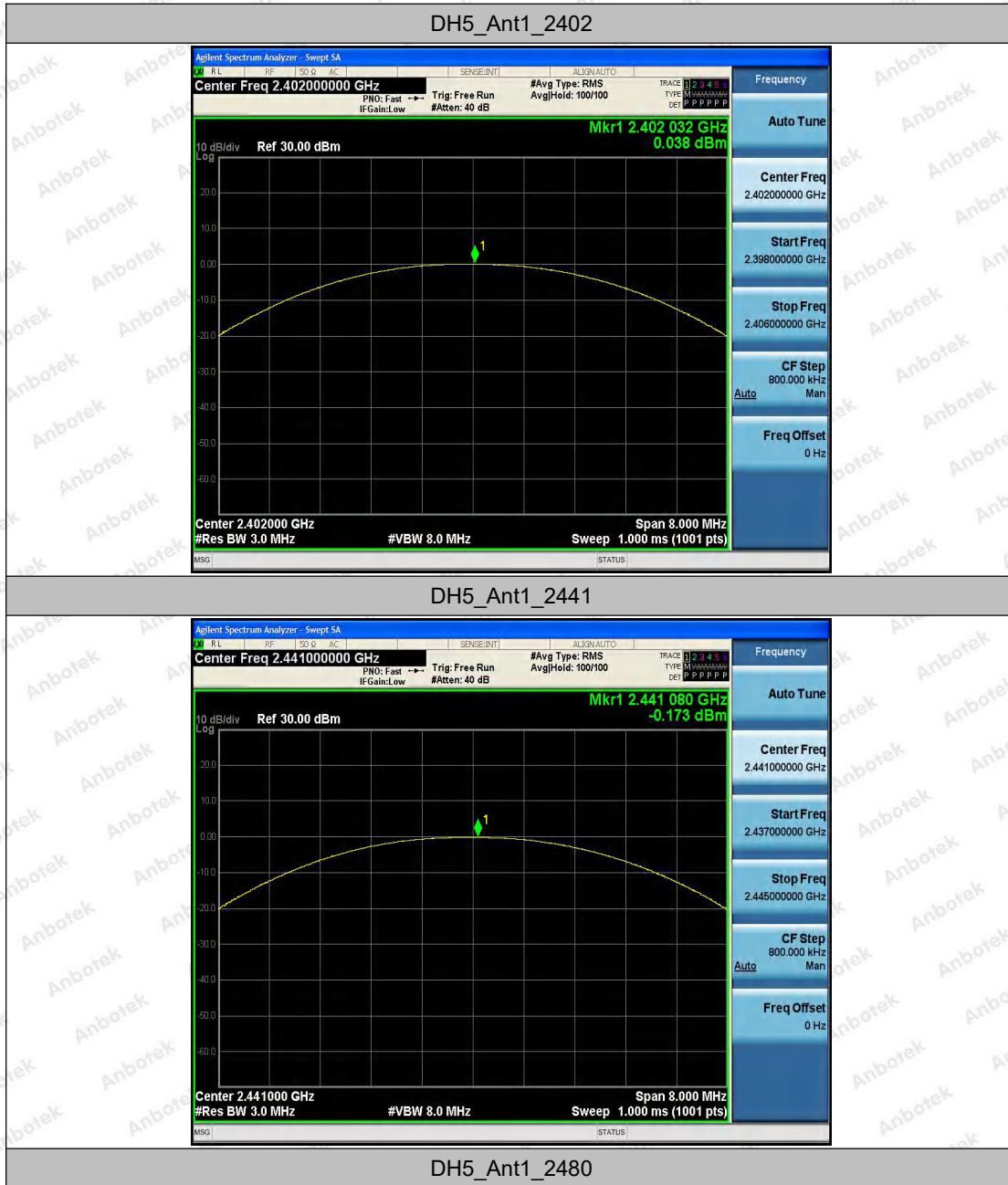
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## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	0.04	≤20.97	PASS
		2441	-0.17	≤20.97	PASS
		2480	0.62	≤20.97	PASS
2DH5	Ant1	2402	-0.69	≤20.97	PASS
		2441	-1.17	≤20.97	PASS
		2480	-0.46	≤20.97	PASS
3DH5	Ant1	2402	-0.46	≤20.97	PASS
		2441	-0.7	≤20.97	PASS
		2480	0.01	≤20.97	PASS

## Test Graphs



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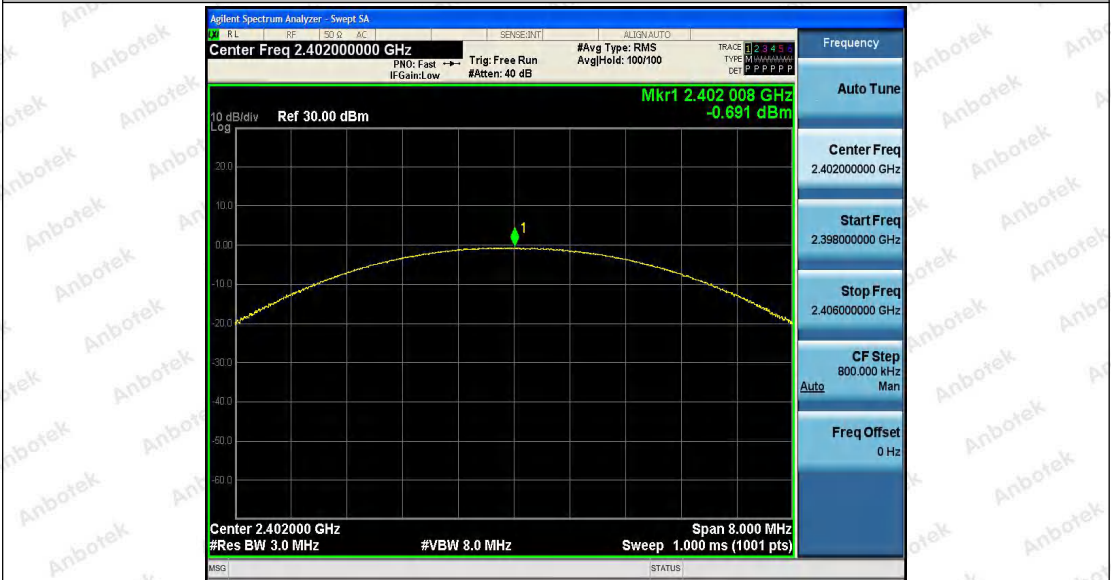
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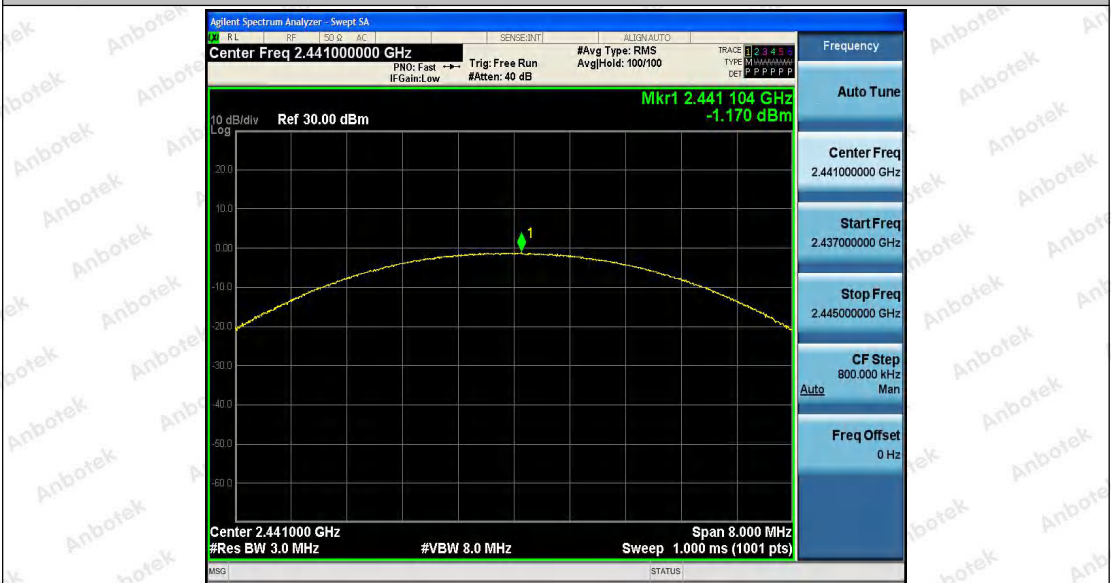
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2DH5\_Ant1\_2402



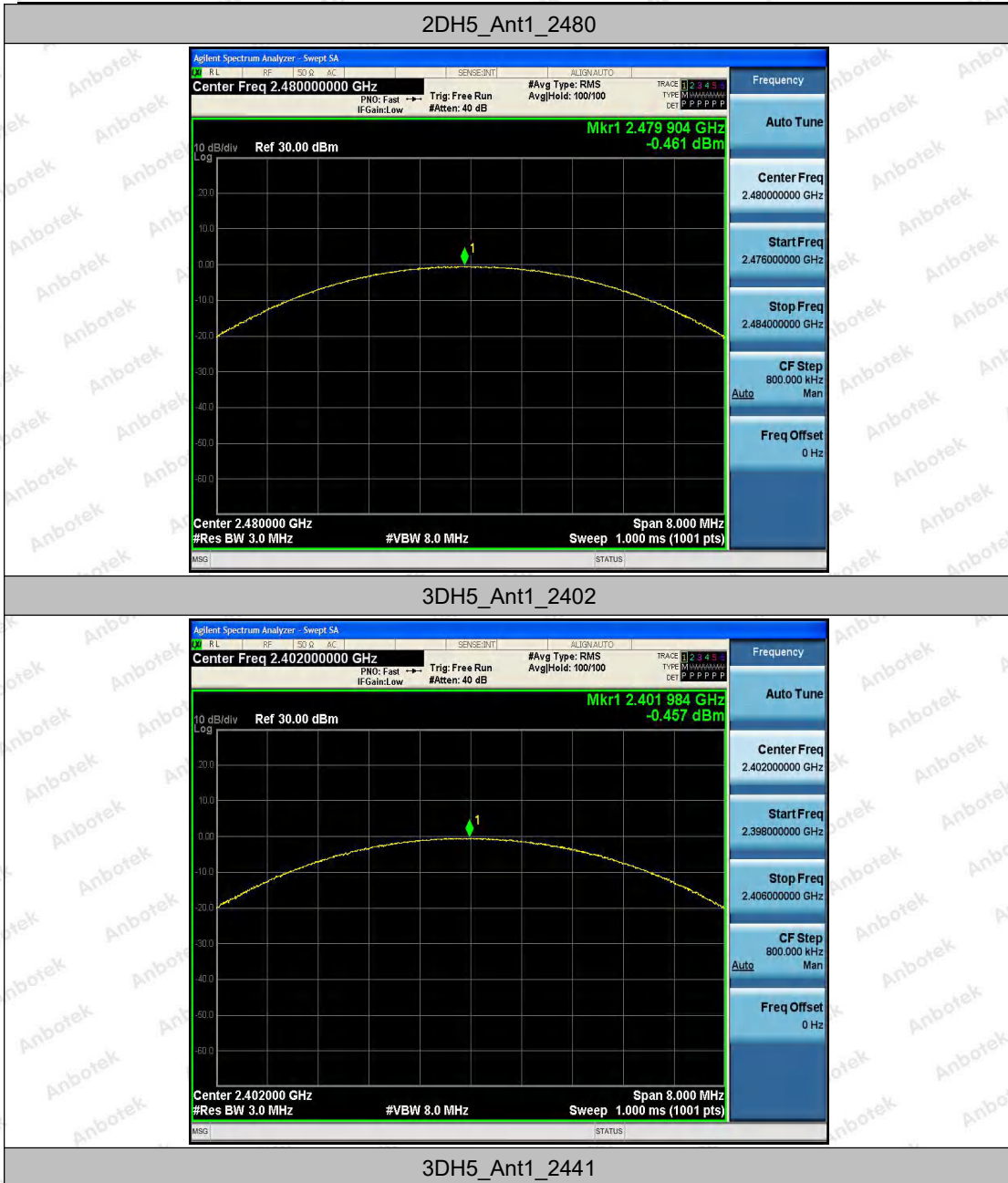
2DH5\_Ant1\_2441



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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.162	≥0.948	PASS
2DH5	Ant1	Hop	1.118	≥0.898	PASS
3DH5	Ant1	Hop	1.36	≥0.886	PASS



## Test Graphs



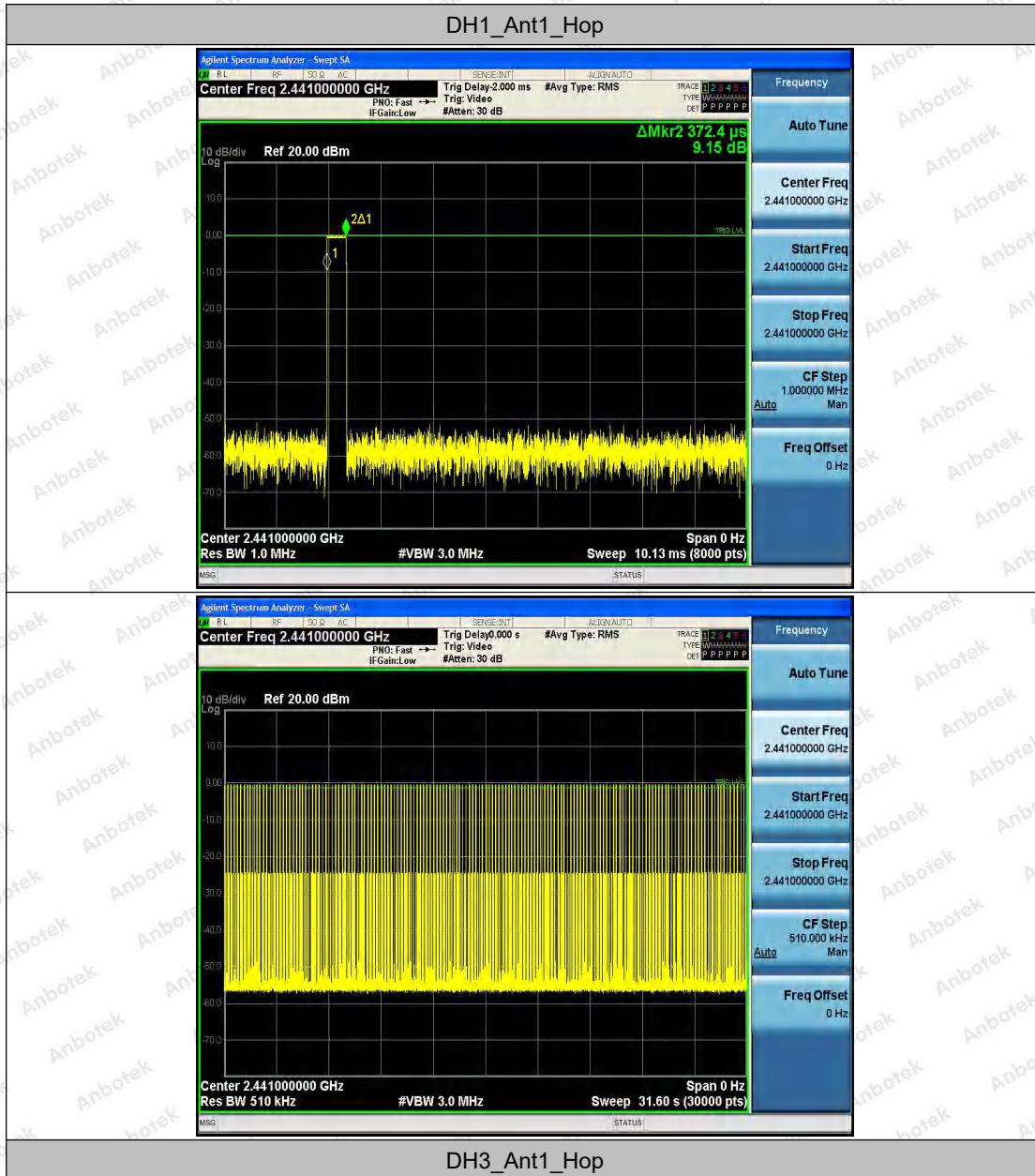


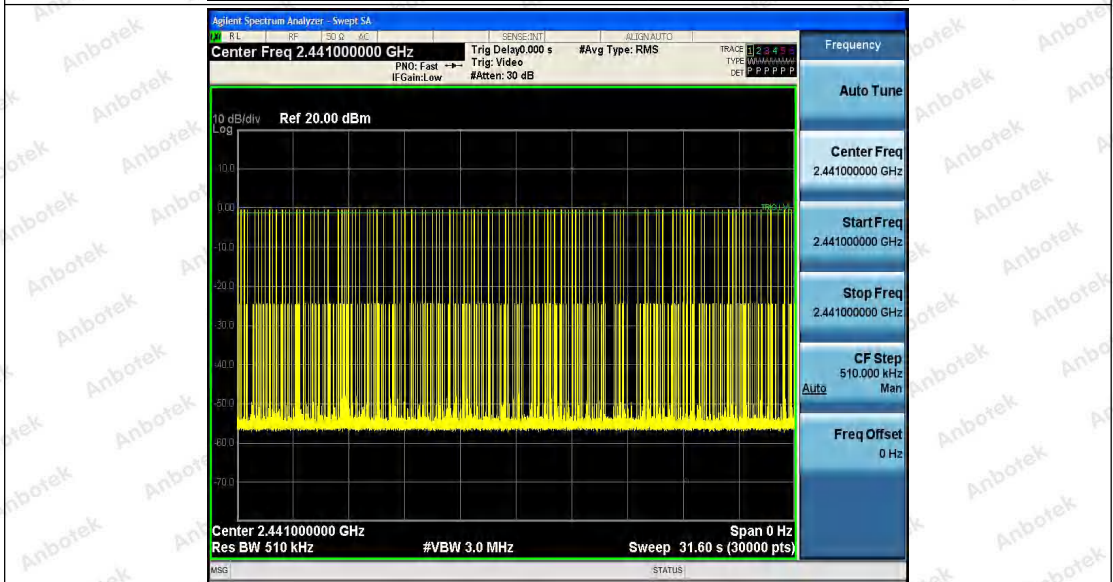
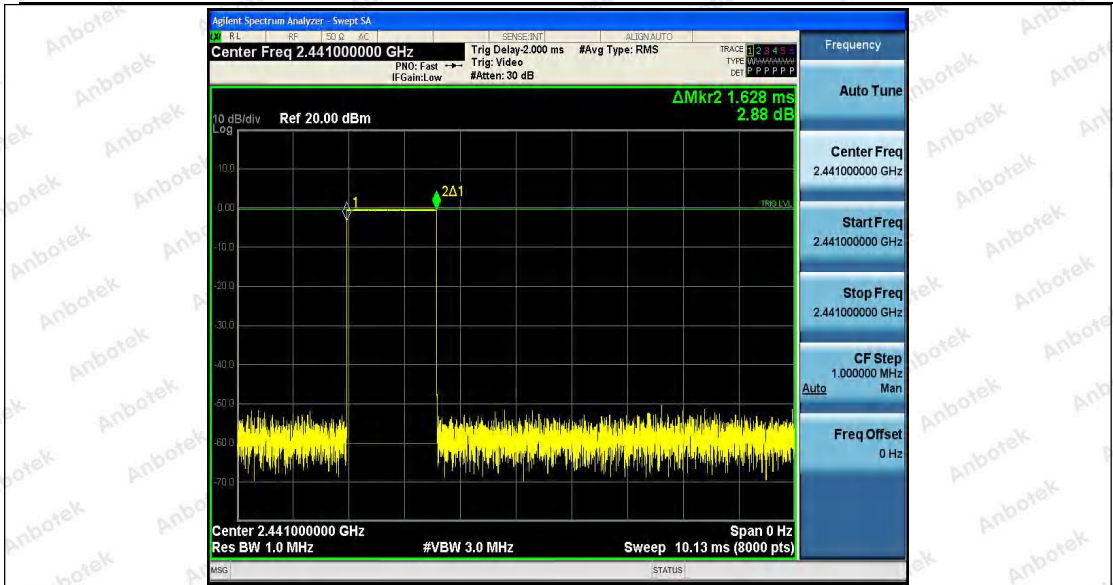
## Appendix E: Time of occupancy

### Test Result

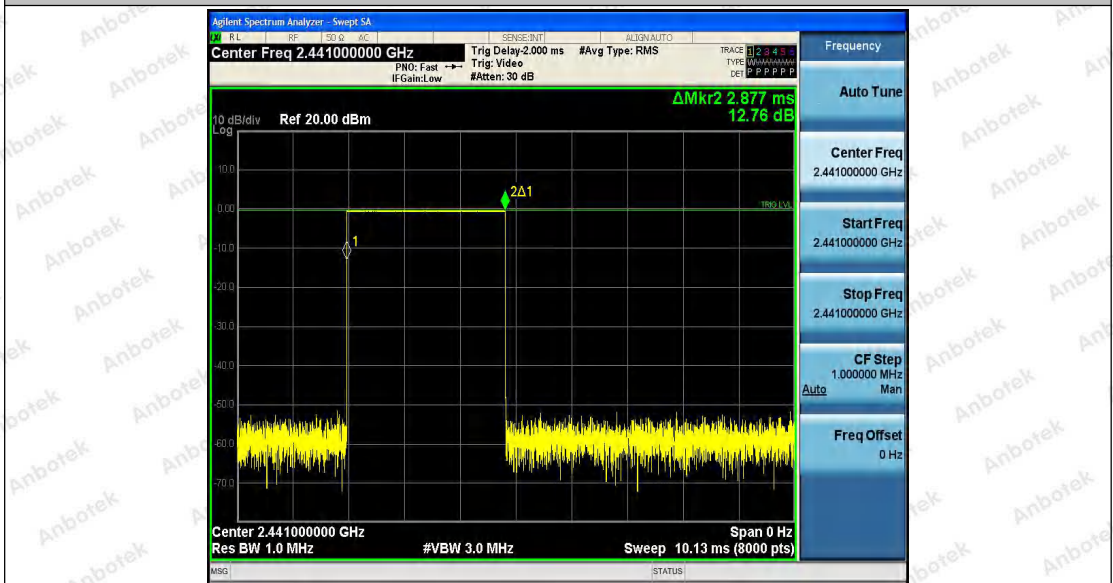
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.88	100	0.288	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
2DH5	Ant1	Hop	2.88	101	0.291	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
3DH5	Ant1	Hop	2.88	113	0.326	≤0.4	PASS

## Test Graphs





### DH5\_Ant1\_Hop

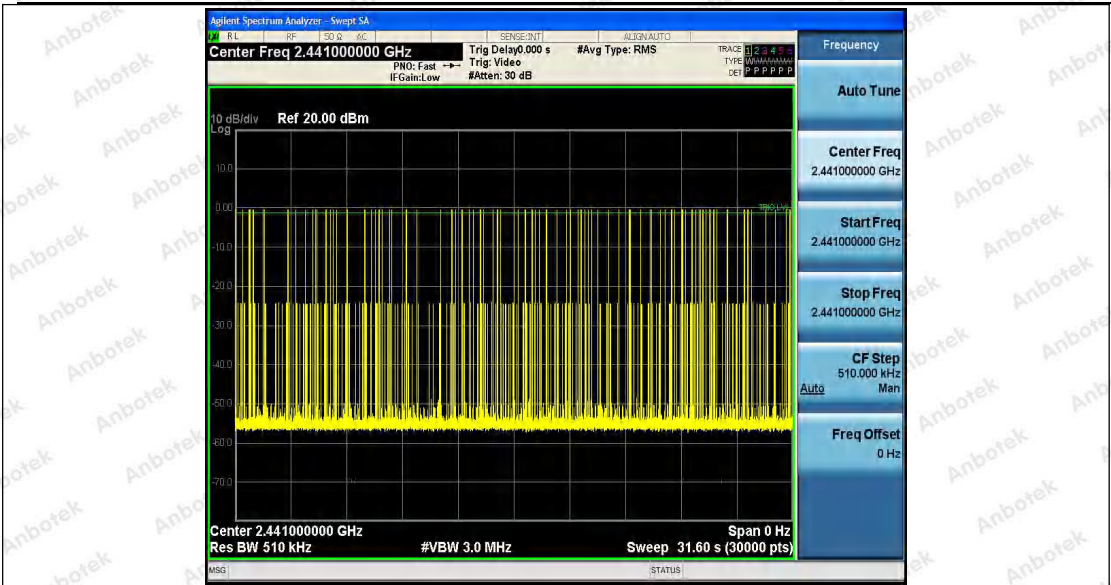


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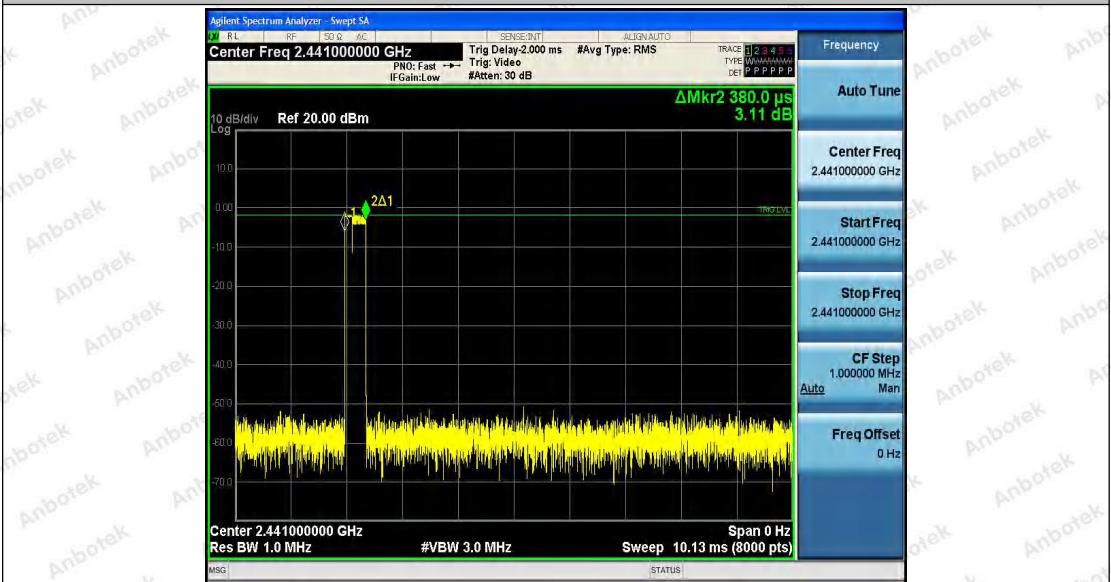
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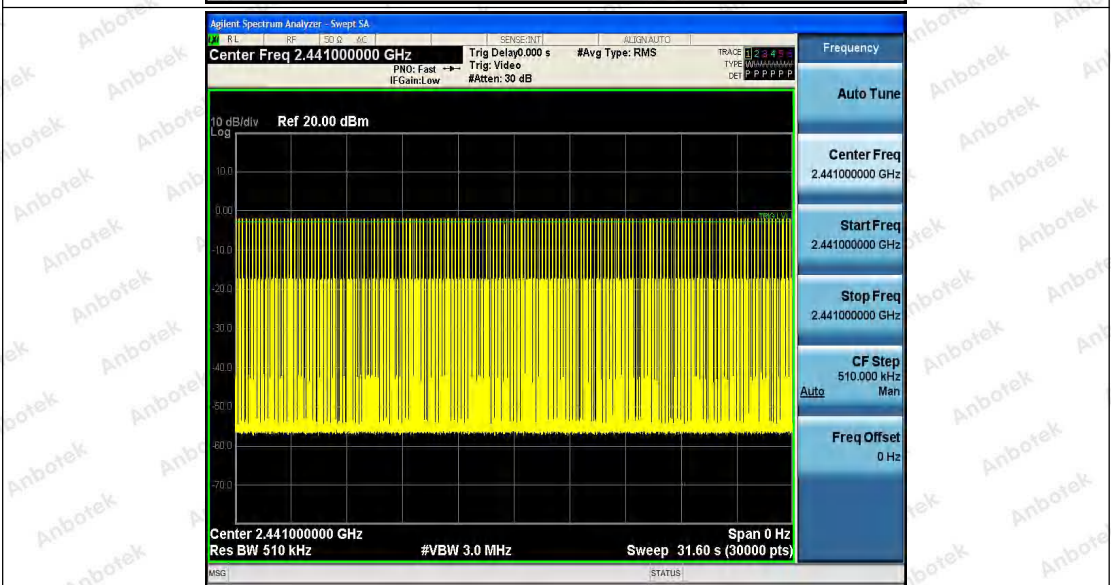
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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop



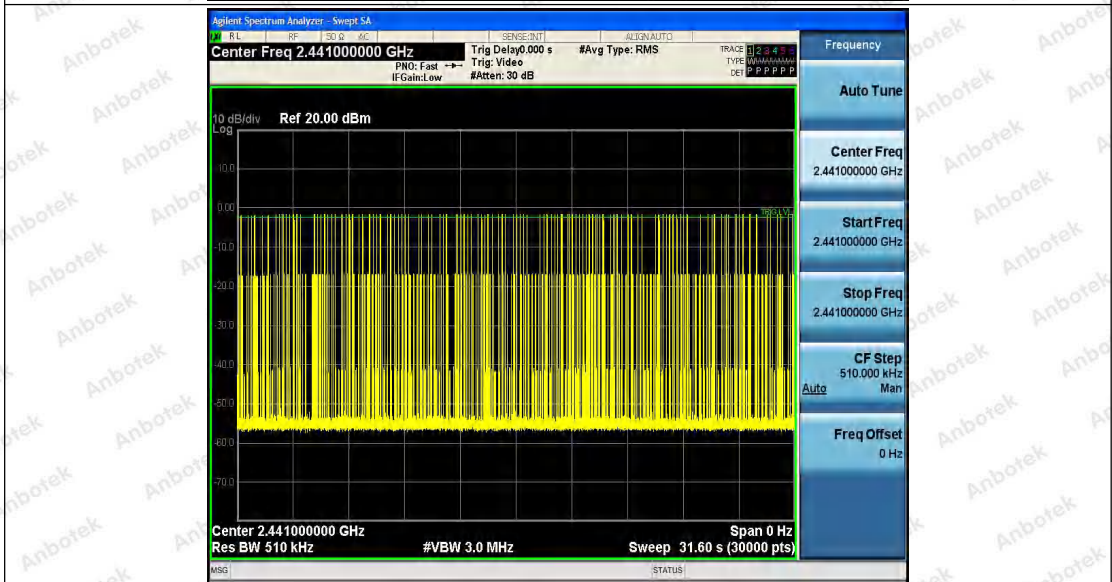
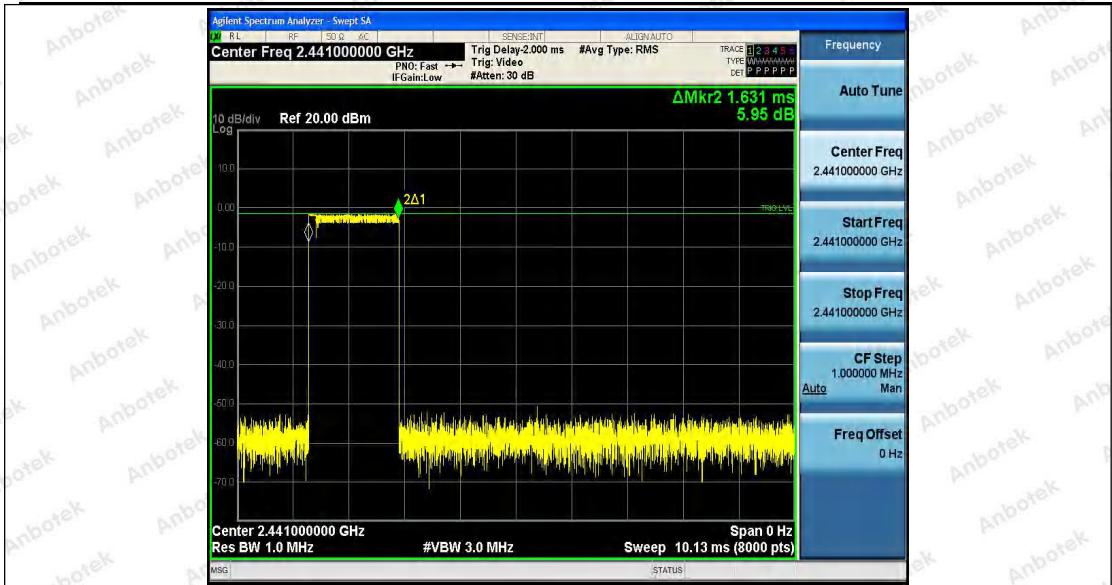
2DH3\_Ant1\_Hop

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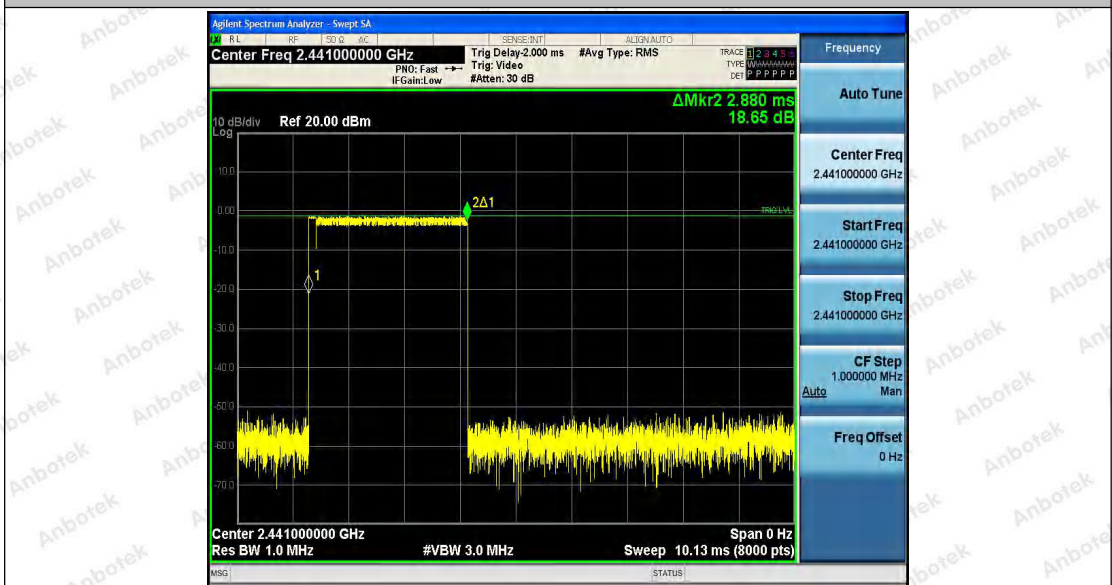
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### 2DH5\_Ant1\_Hop

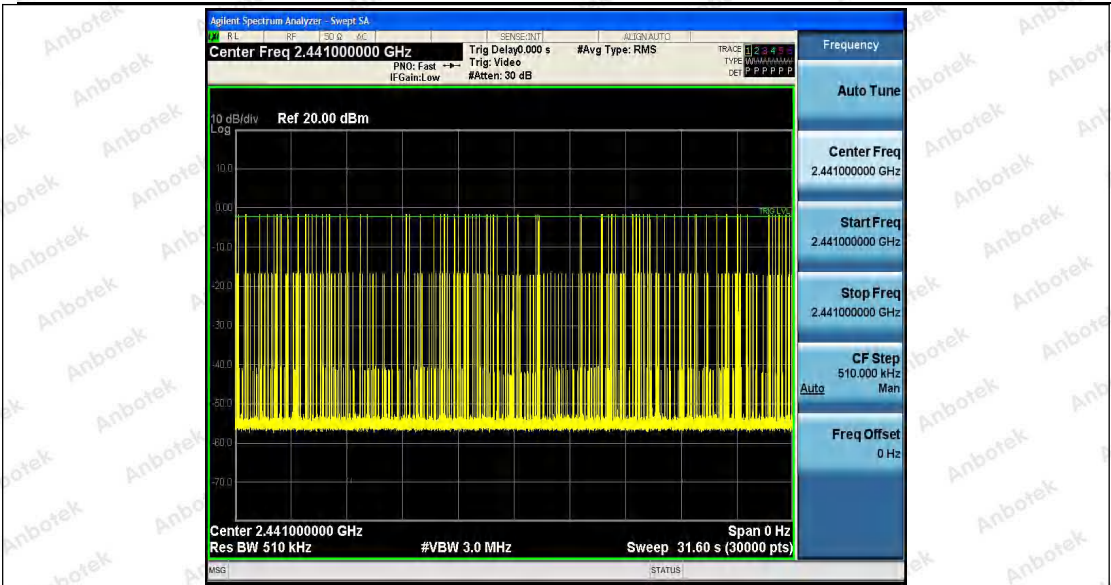


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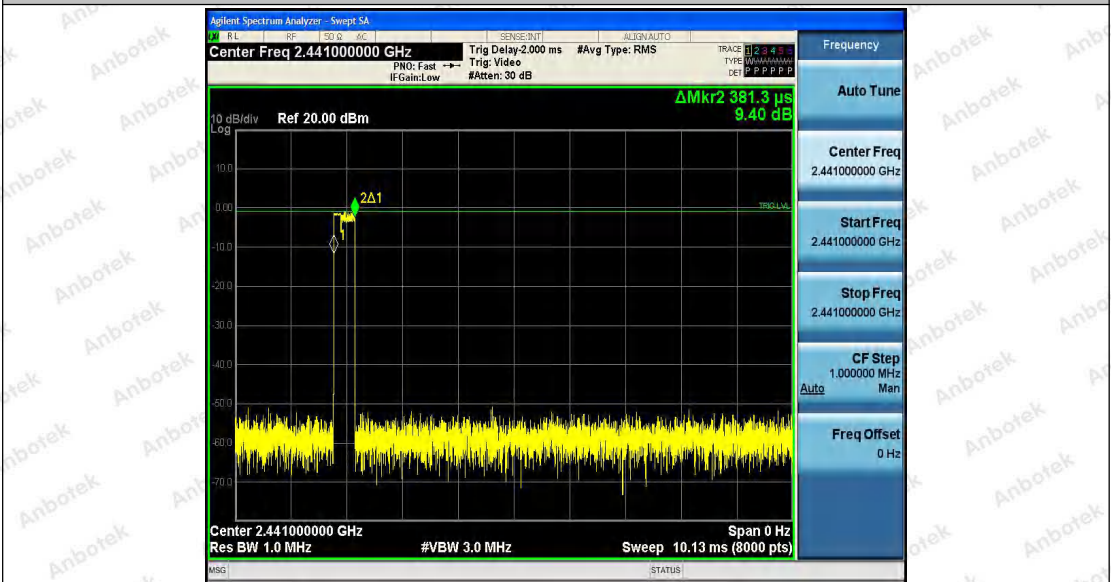
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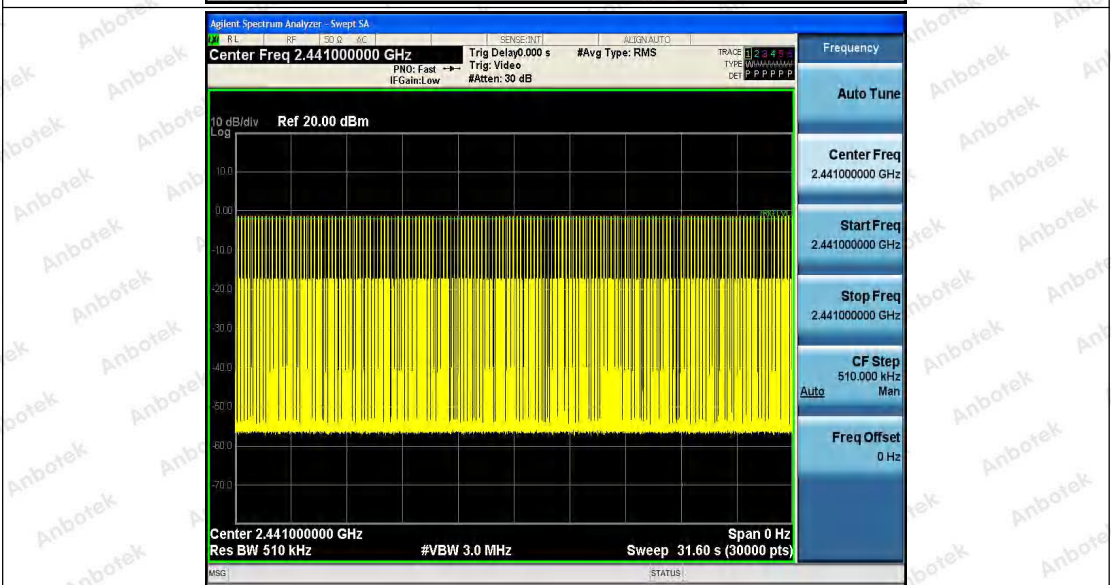
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3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



3DH3\_Ant1\_Hop

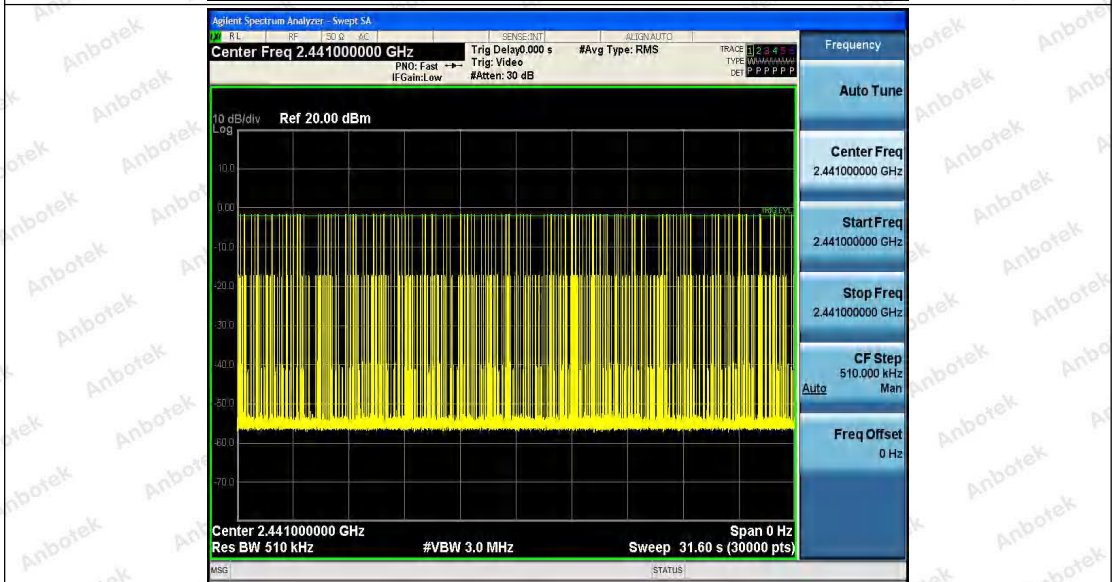
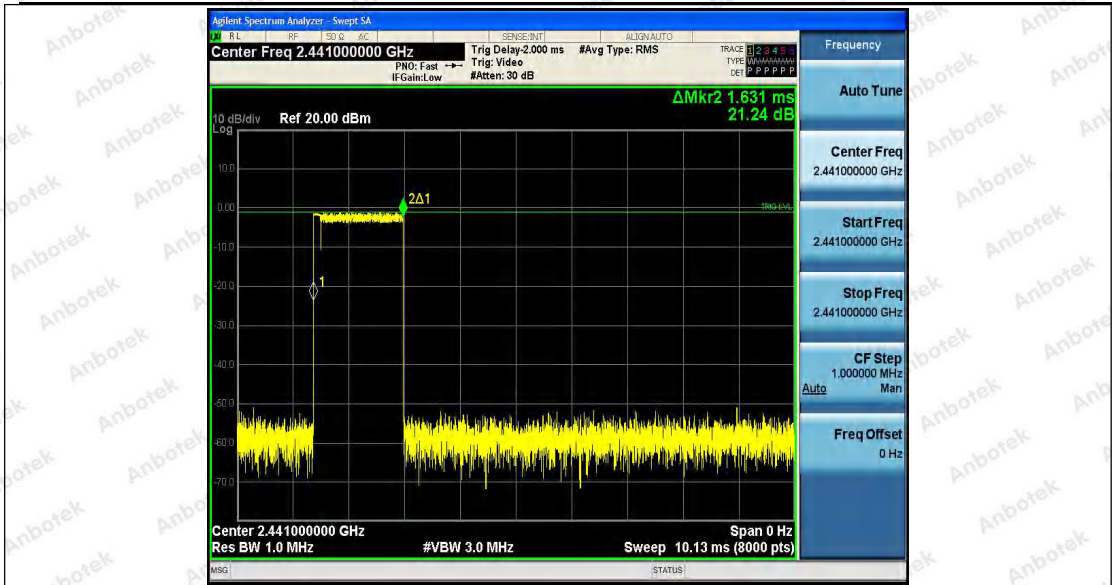
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### 3DH5\_Ant1\_Hop

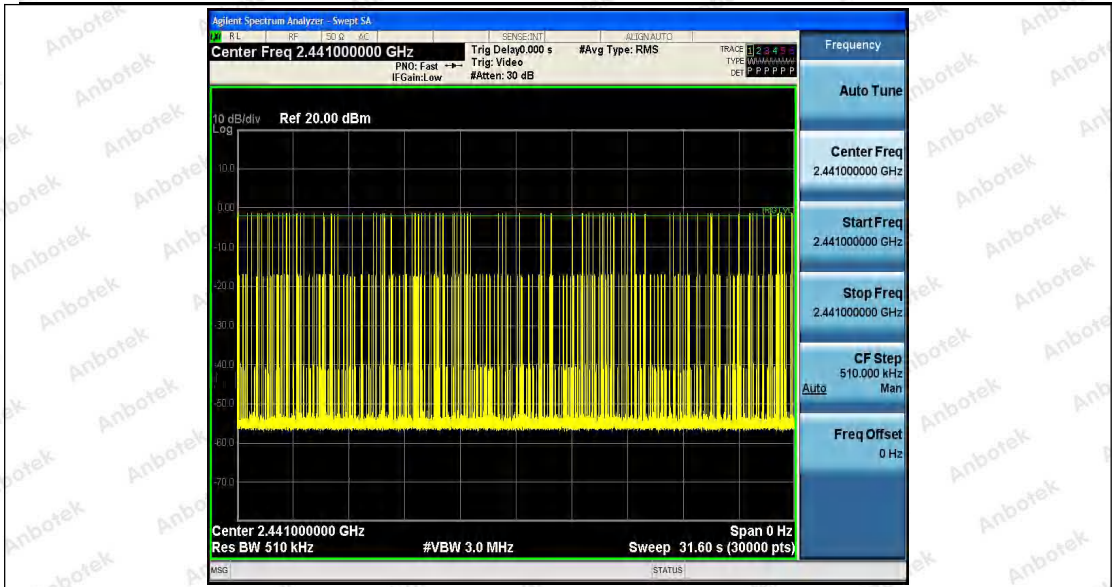


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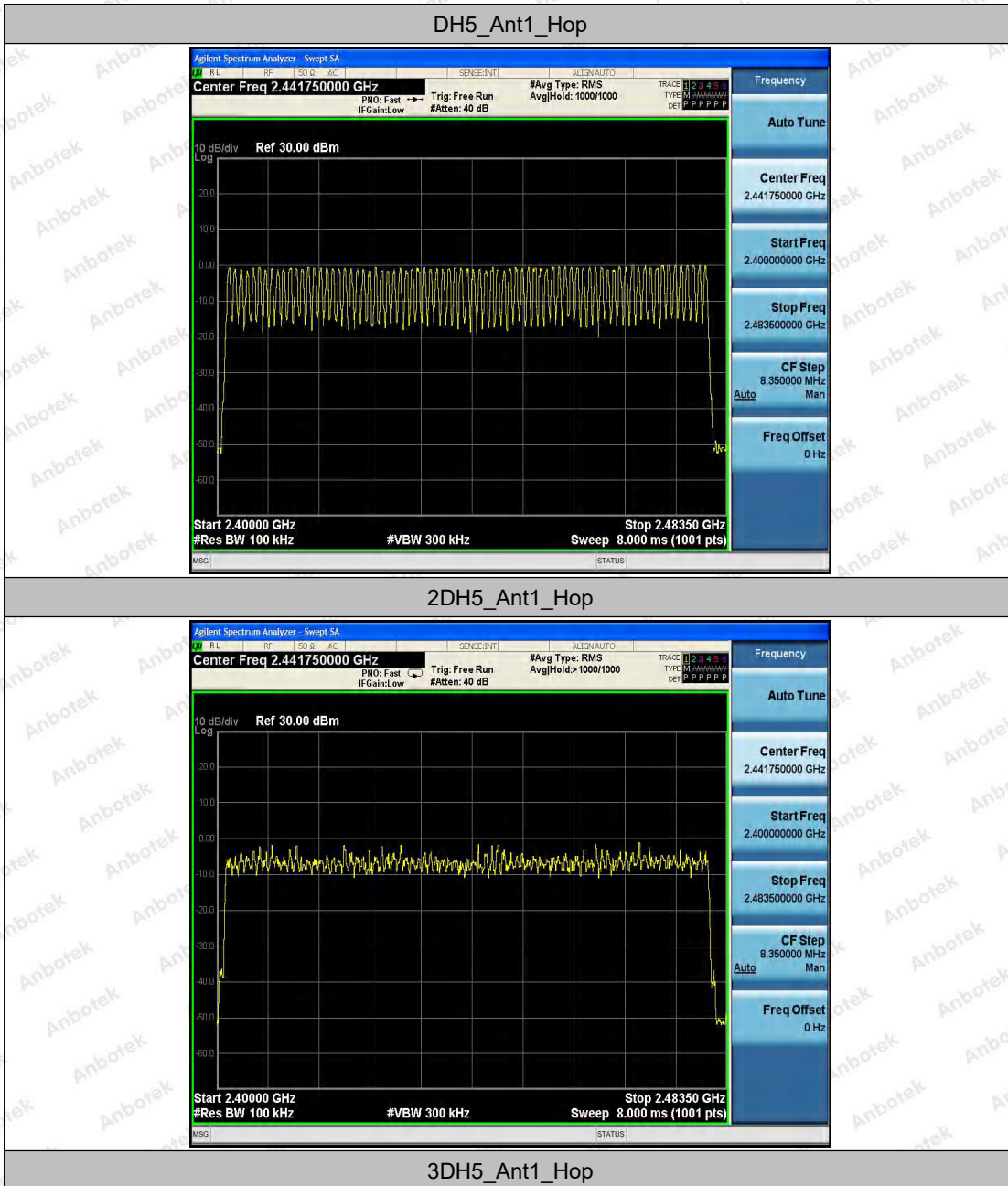
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## Appendix F: Number of hopping channels

### Test Result

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

## Test Graphs

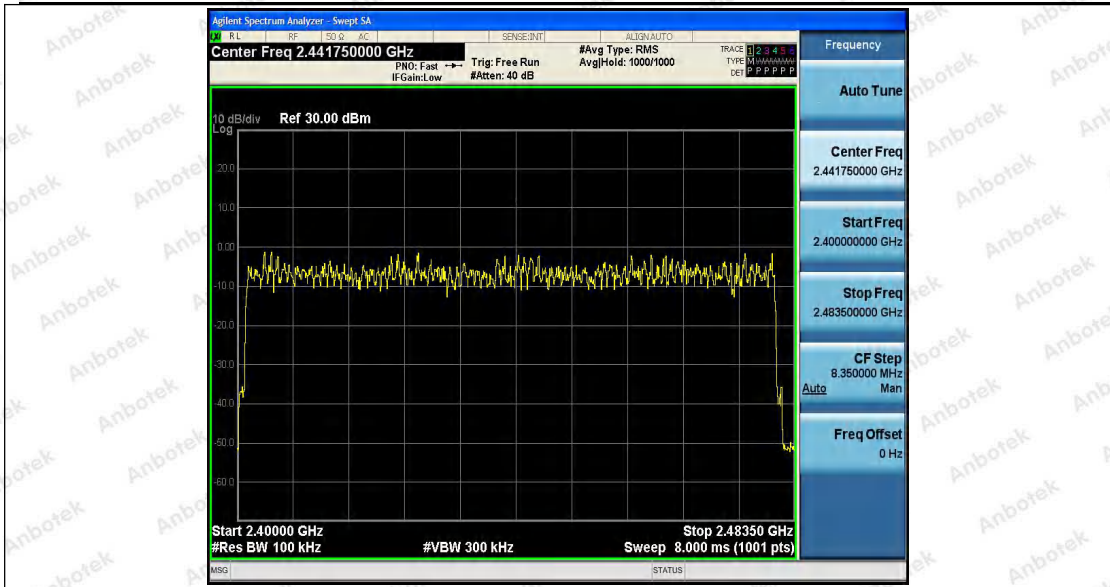


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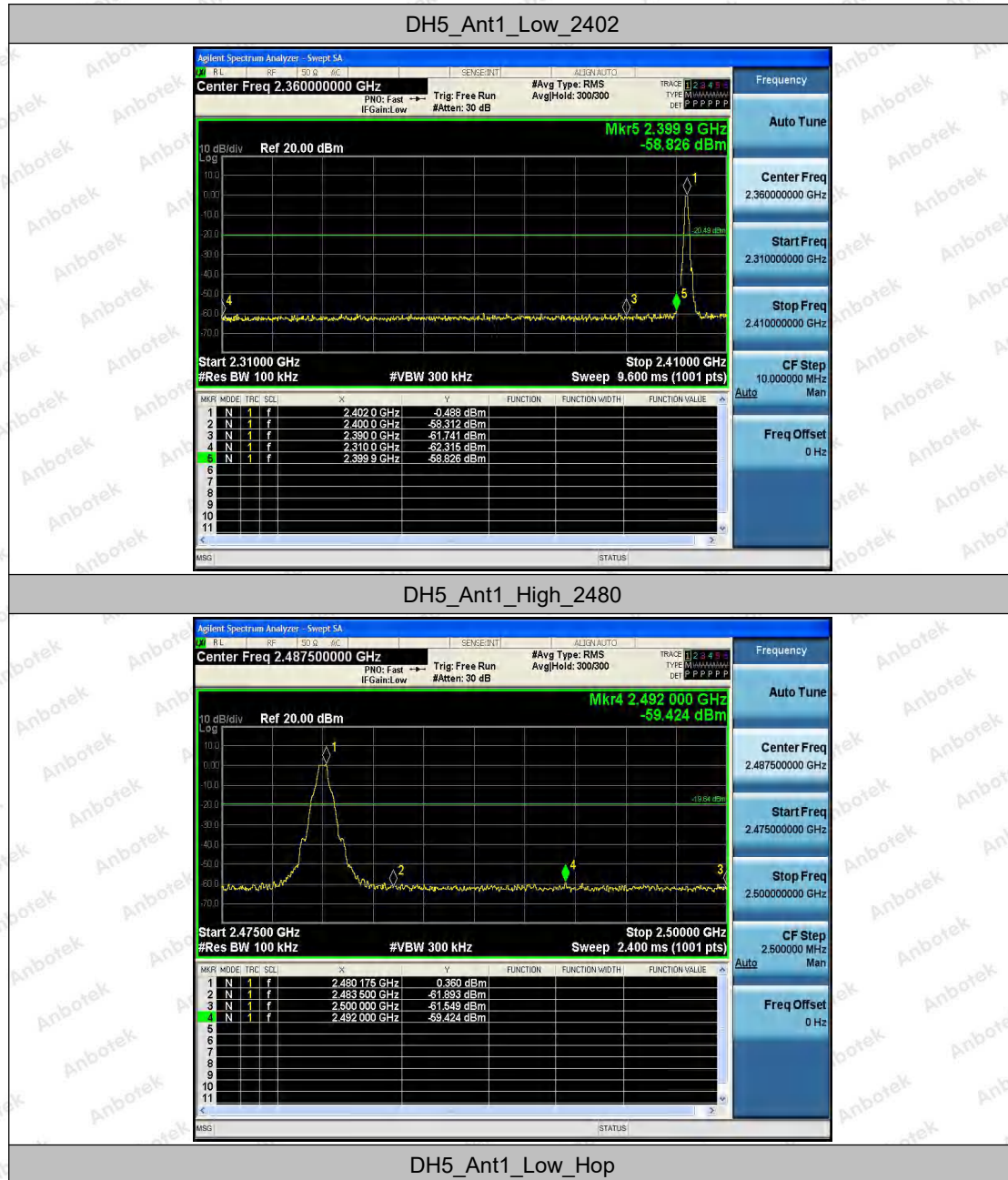
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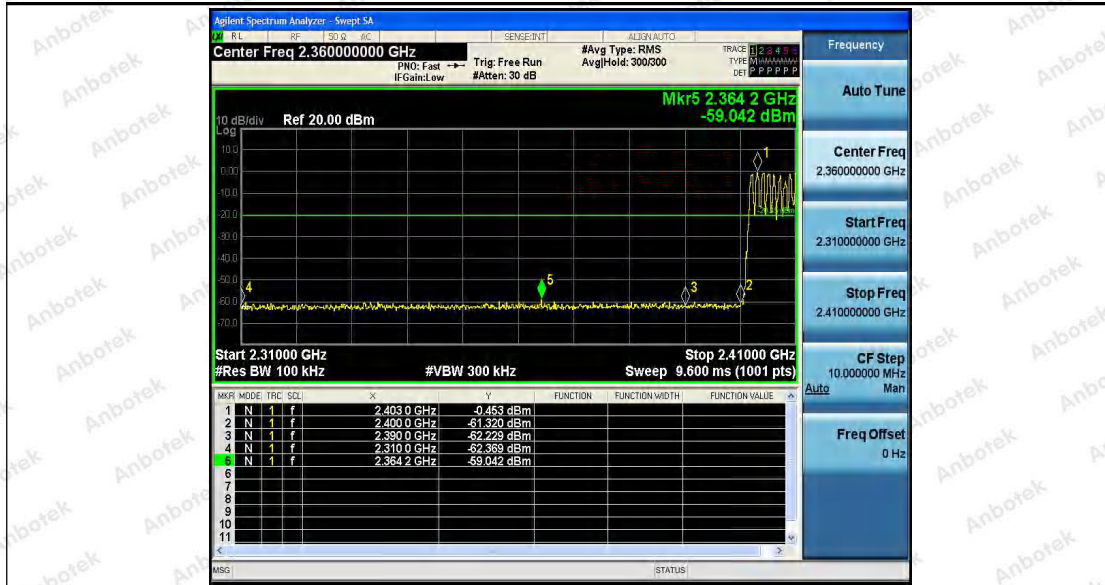
## Appendix G: Band edge measurements

### Test Result

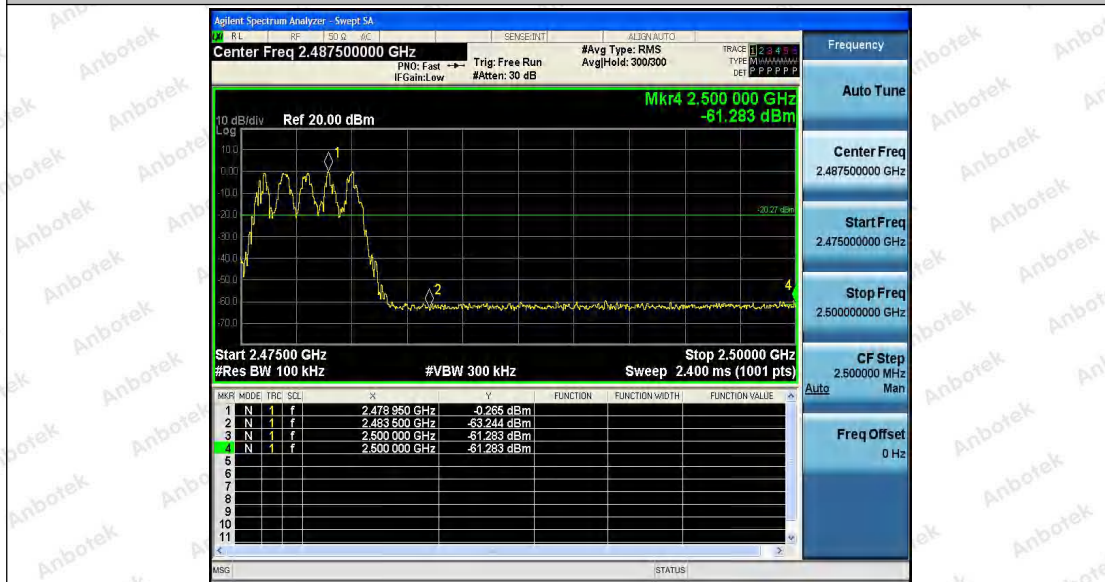
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.49	-58.83	≤-20.49	PASS
		High	2480	0.36	-59.42	≤-19.64	PASS
		Low	Hop	-0.45	-59.04	≤-20.45	PASS
		High	Hop	-0.27	-61.28	≤-20.27	PASS
2DH5	Ant1	Low	2402	-1.92	-57.64	≤-21.92	PASS
		High	2480	-1.58	-59.3	≤-21.58	PASS
		Low	Hop	-1.90	-59.87	≤-21.9	PASS
		High	Hop	-3.92	-62.36	≤-23.92	PASS
3DH5	Ant1	Low	2402	-2.37	-57.68	≤-22.37	PASS
		High	2480	-1.39	-58.87	≤-21.39	PASS
		Low	Hop	-1.71	-58.94	≤-21.71	PASS
		High	Hop	-1.29	-62.86	≤-21.29	PASS

## Test Graphs

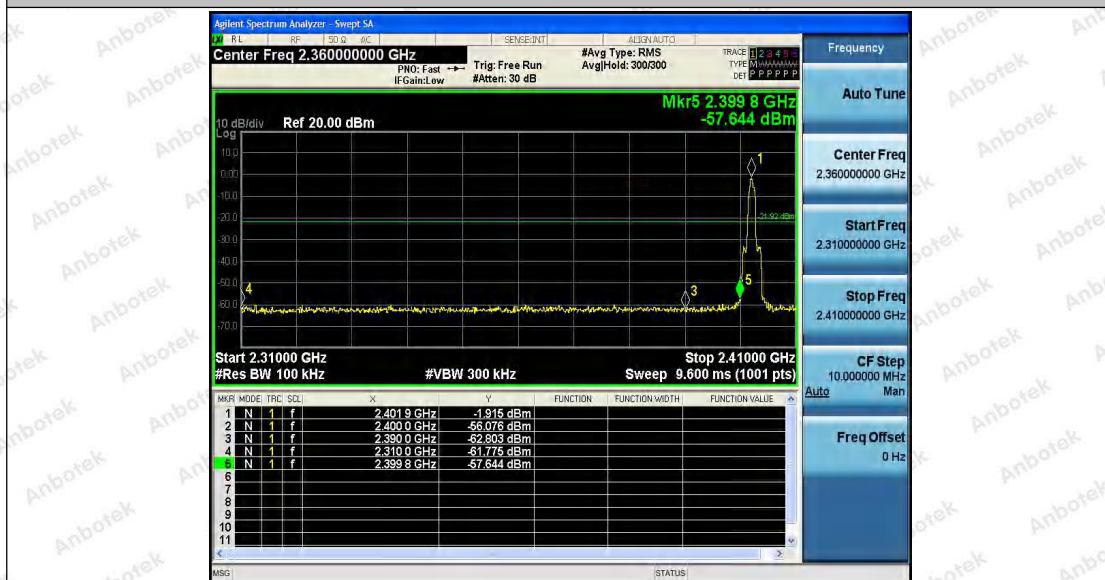




DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



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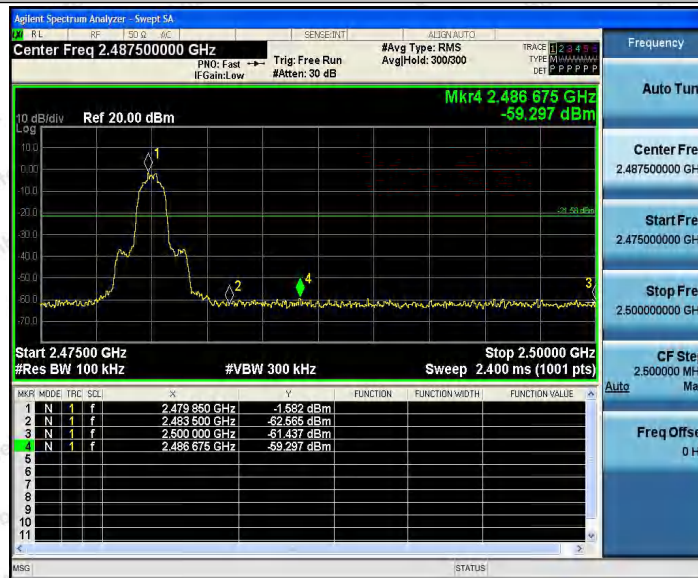
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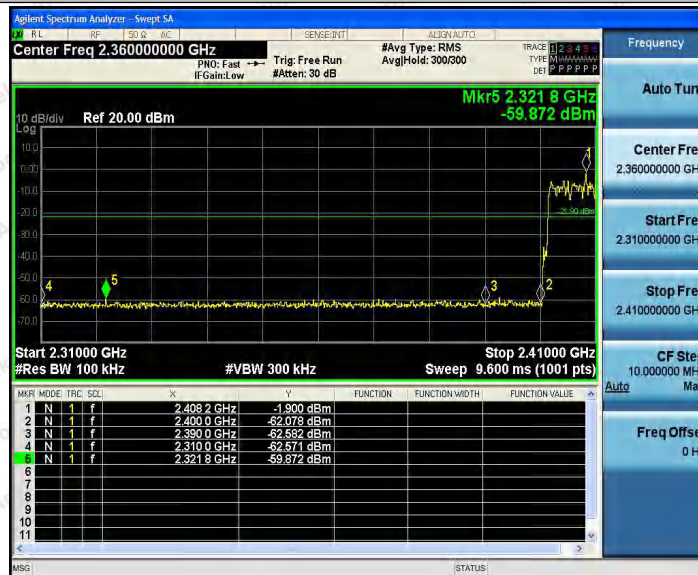
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop



### 2DH5\_Ant1\_High\_Hop

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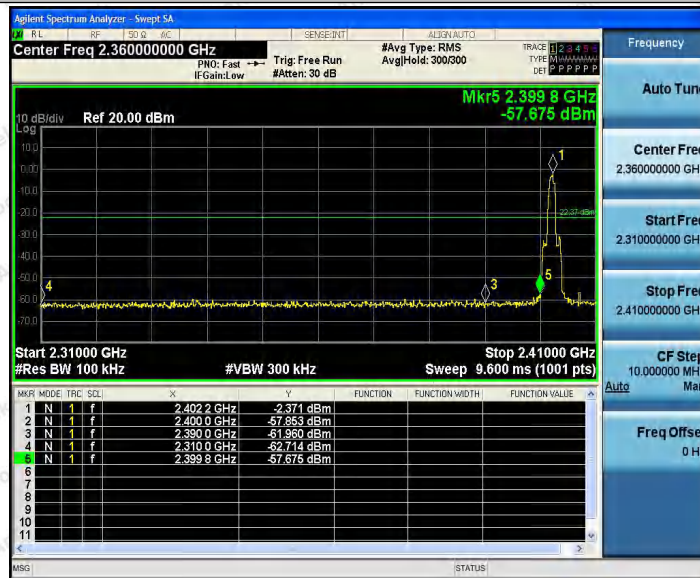
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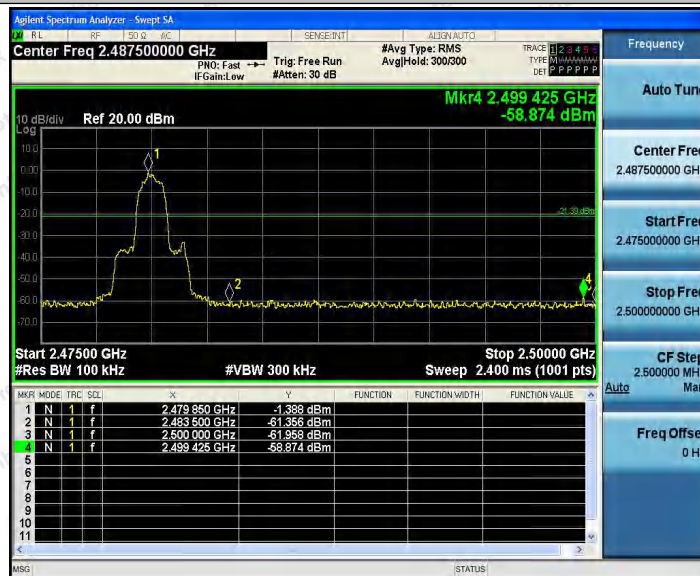
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3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480

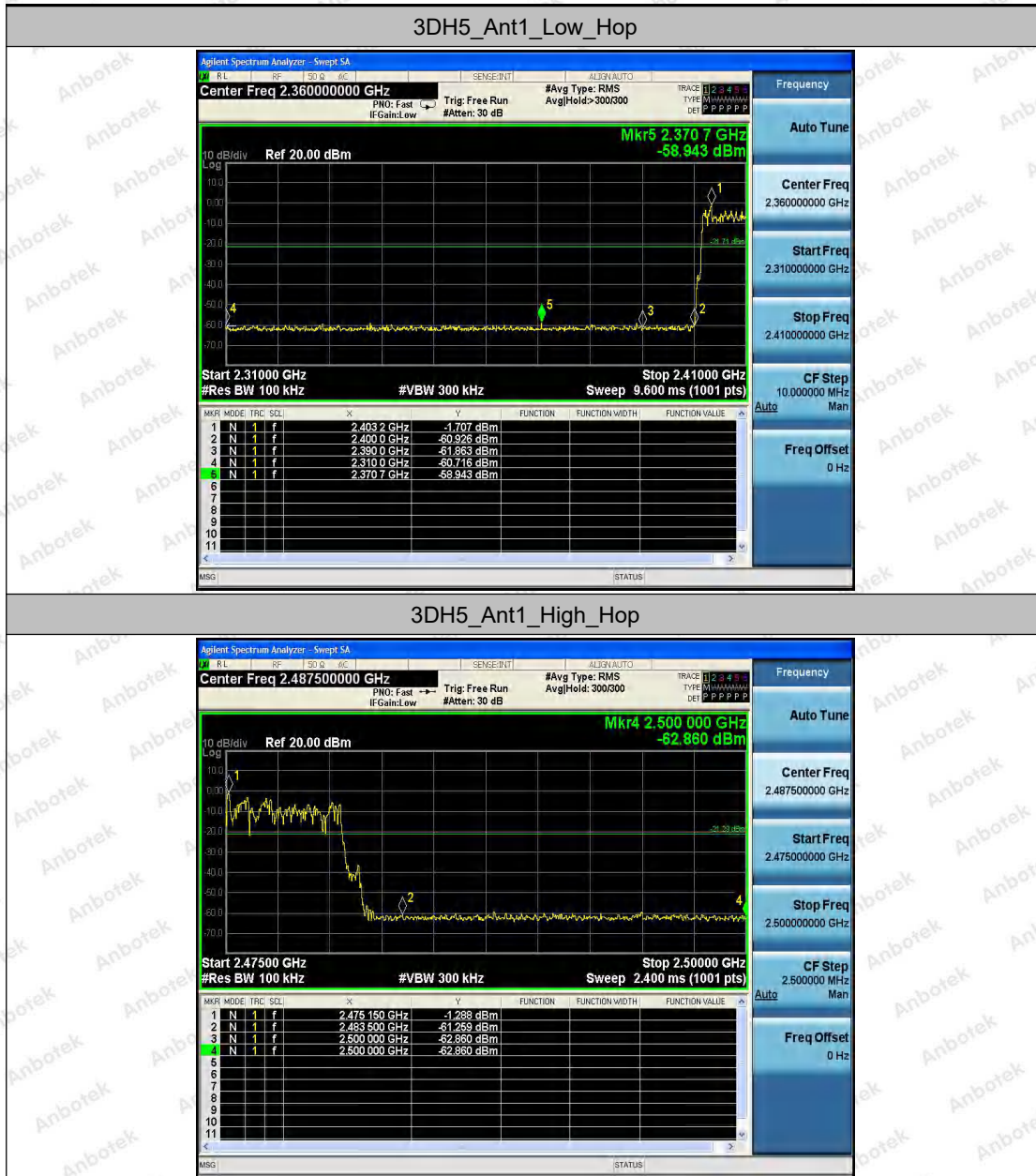


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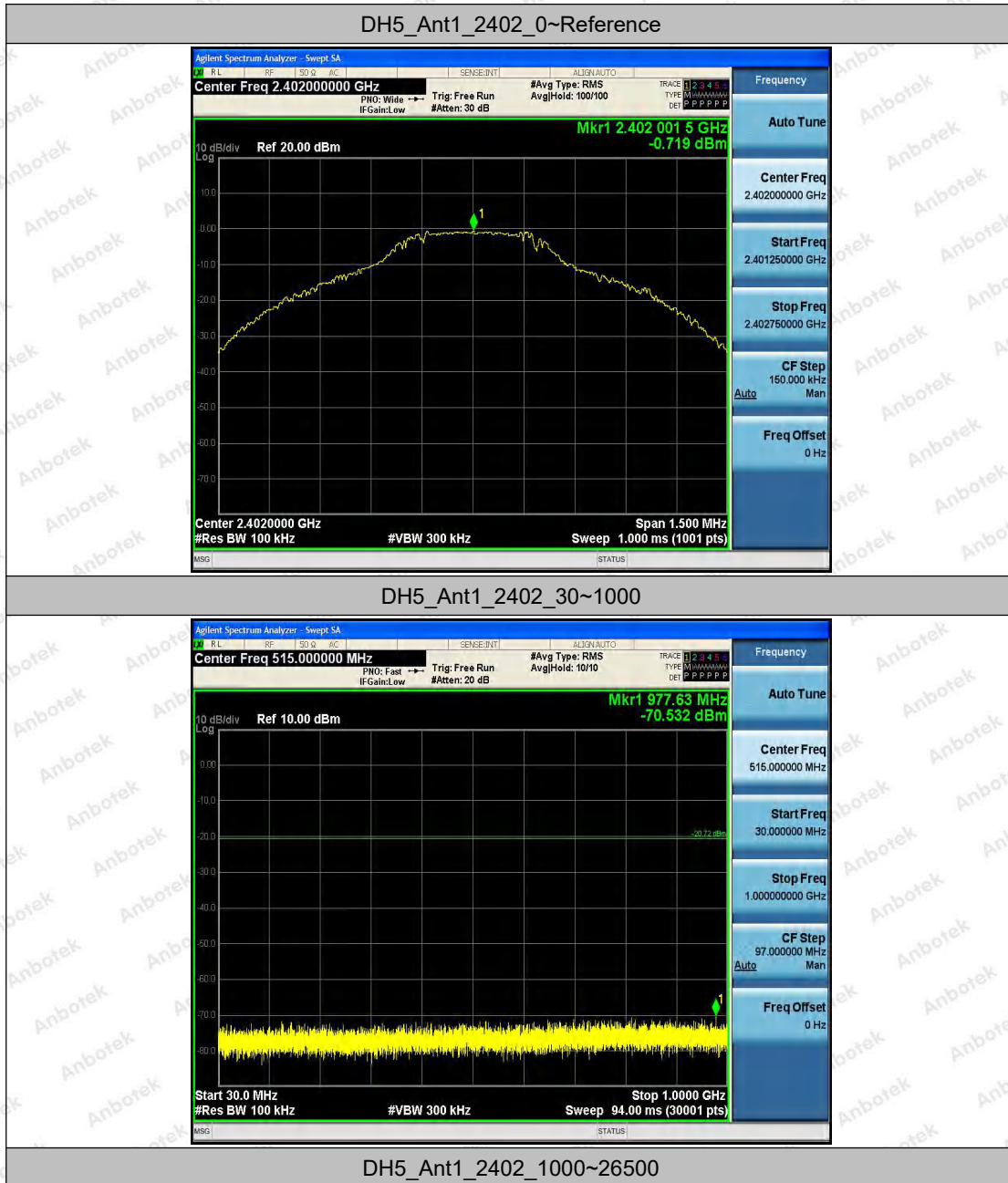
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## Appendix H: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.72	-0.72	---	PASS
			30~1000	-0.72	-70.53	≤-20.72	PASS
			1000~26500	-0.72	-55.28	≤-20.72	PASS
		2441	Reference	-0.90	-0.90	---	PASS
			30~1000	-0.90	-70.73	≤-20.9	PASS
			1000~26500	-0.90	-55.44	≤-20.9	PASS
		2480	Reference	-0.13	-0.13	---	PASS
			30~1000	-0.13	-69.92	≤-20.13	PASS
			1000~26500	-0.13	-55.11	≤-20.13	PASS
2DH5	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-70.39	≤-21.81	PASS
			1000~26500	-1.81	-55.48	≤-21.81	PASS
		2441	Reference	-2.13	-2.13	---	PASS
			30~1000	-2.13	-70.96	≤-22.13	PASS
			1000~26500	-2.13	-55.08	≤-22.13	PASS
		2480	Reference	-1.46	-1.46	---	PASS
			30~1000	-1.46	-70.56	≤-21.46	PASS
			1000~26500	-1.46	-55.44	≤-21.46	PASS
3DH5	Ant1	2402	Reference	-2.39	-2.39	---	PASS
			30~1000	-2.39	-70.29	≤-22.39	PASS
			1000~26500	-2.39	-55.06	≤-22.39	PASS
		2441	Reference	-2.23	-2.23	---	PASS
			30~1000	-2.23	-70.08	≤-22.23	PASS
			1000~26500	-2.23	-55.56	≤-22.23	PASS
		2480	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-70.65	≤-20.96	PASS
			1000~26500	-0.96	-55.35	≤-20.96	PASS

## Test Graphs

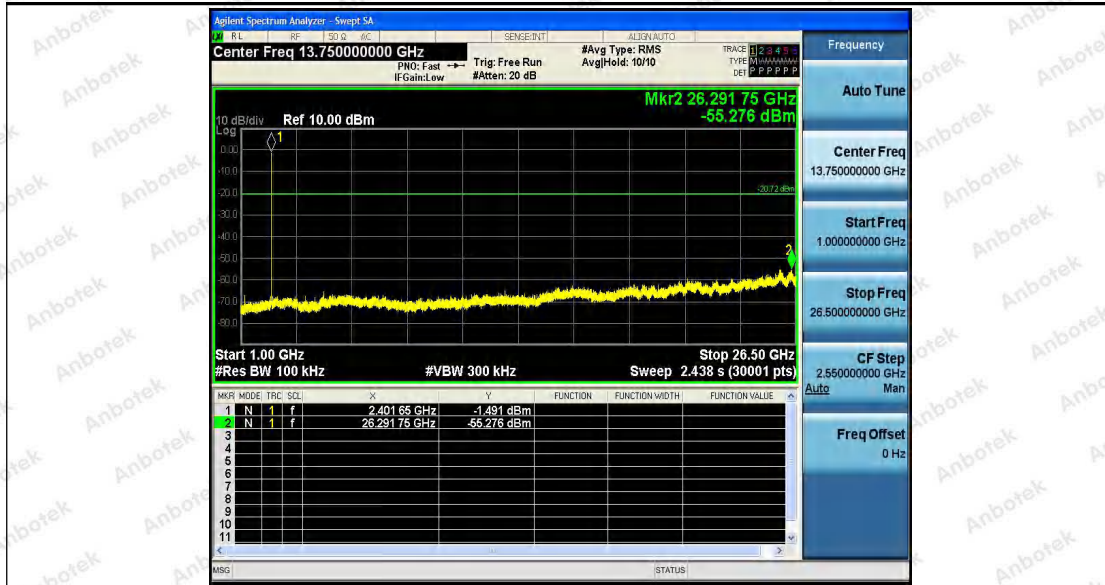


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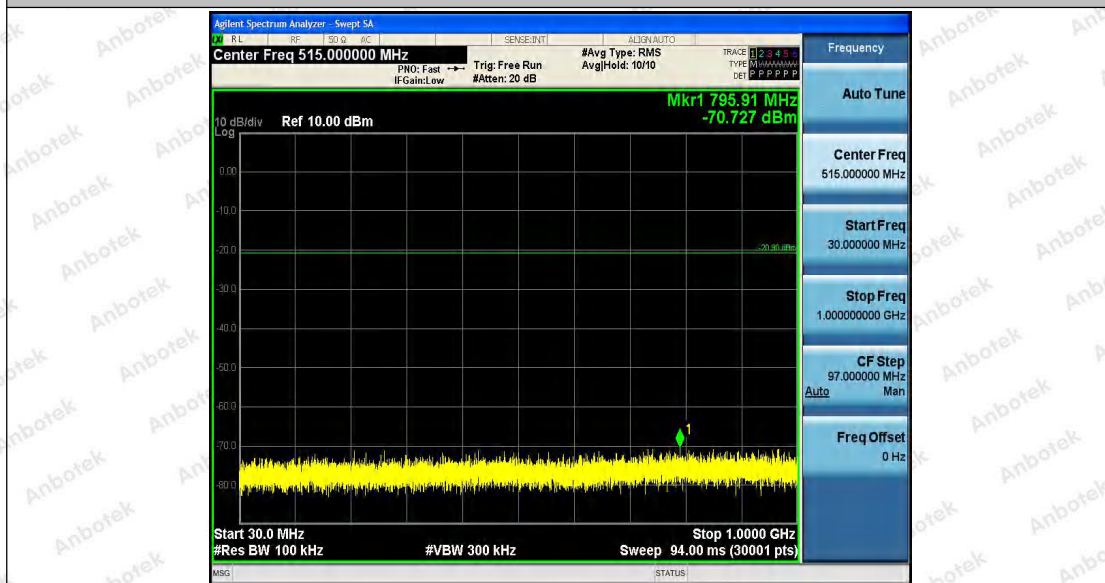
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DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000

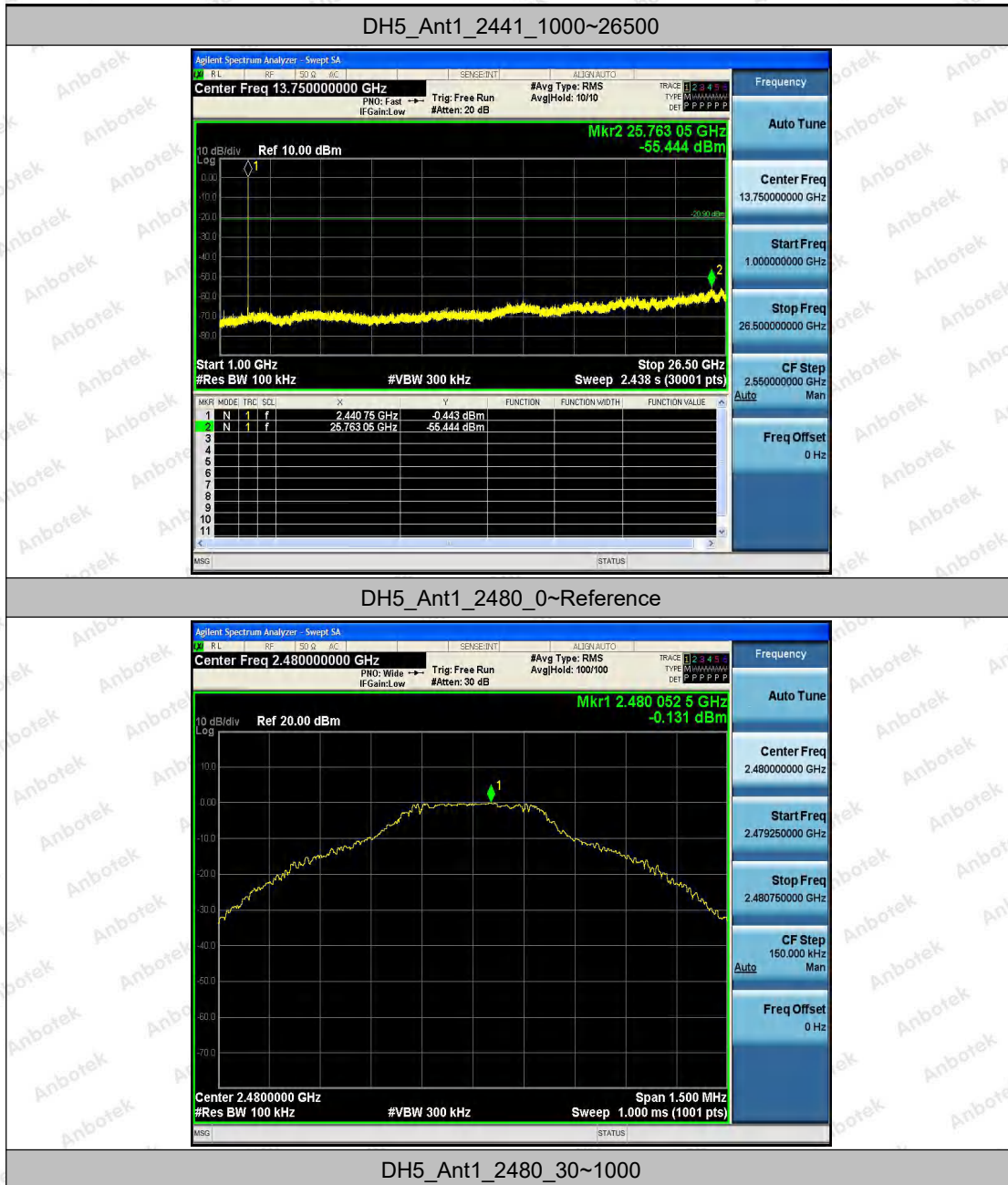


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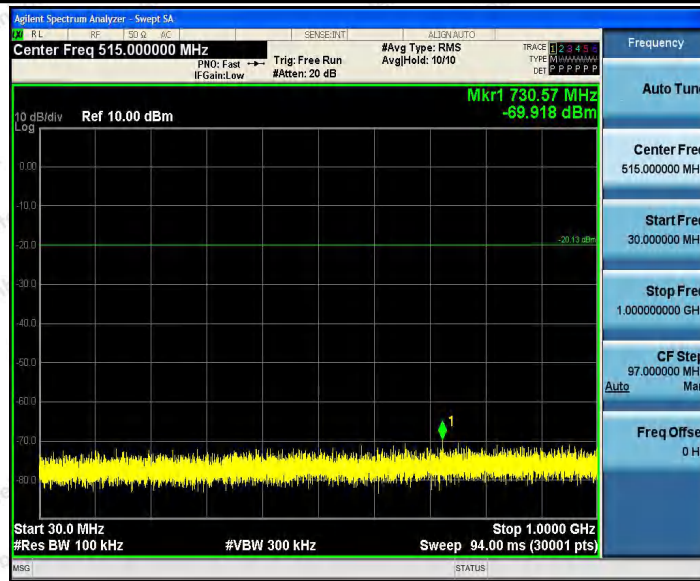


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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



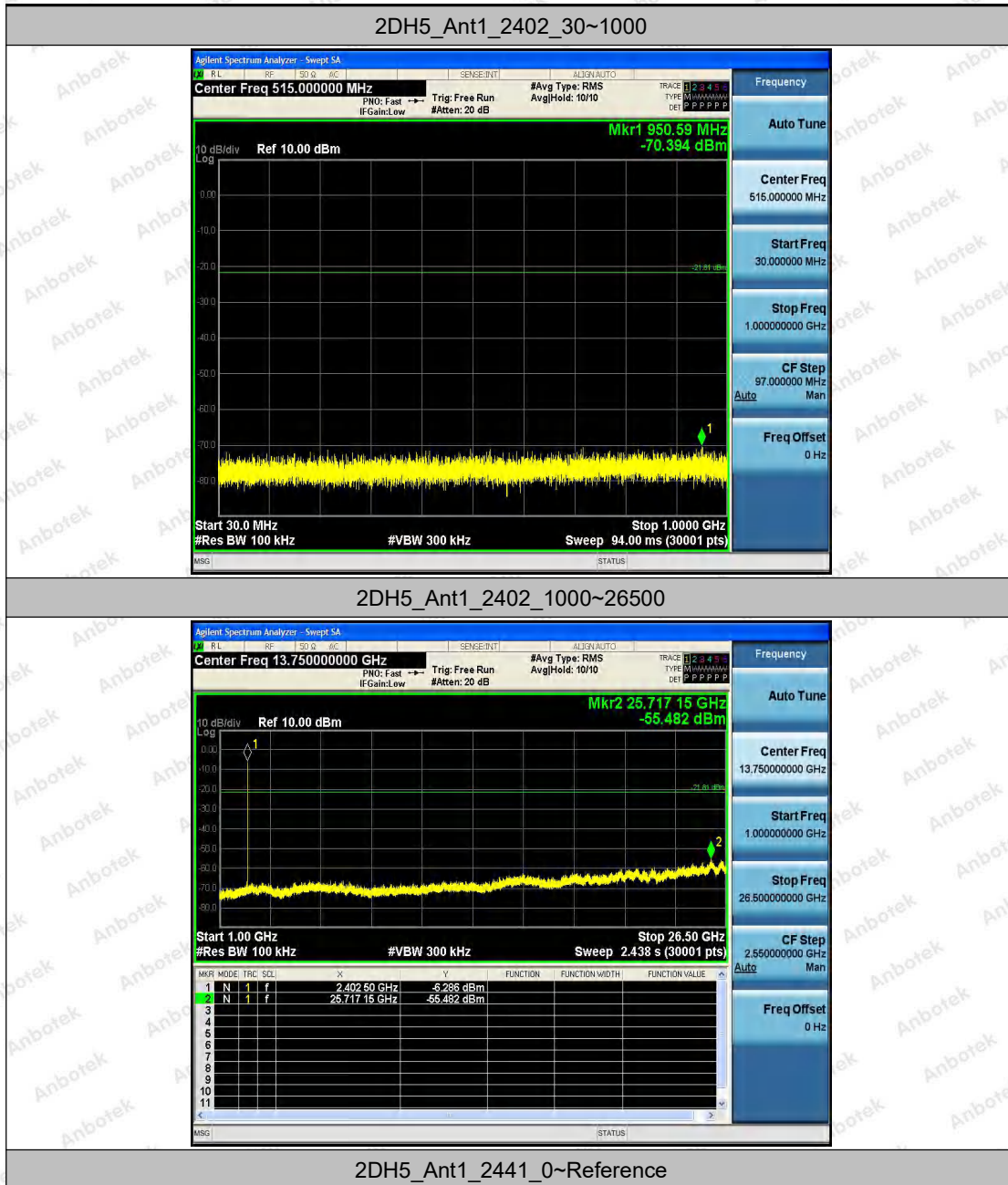
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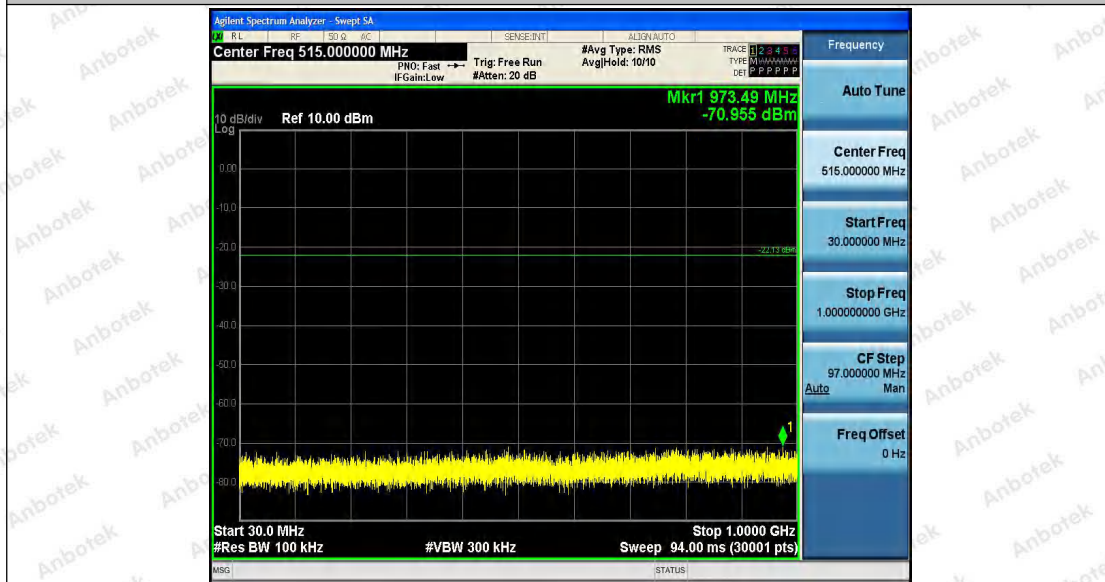
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

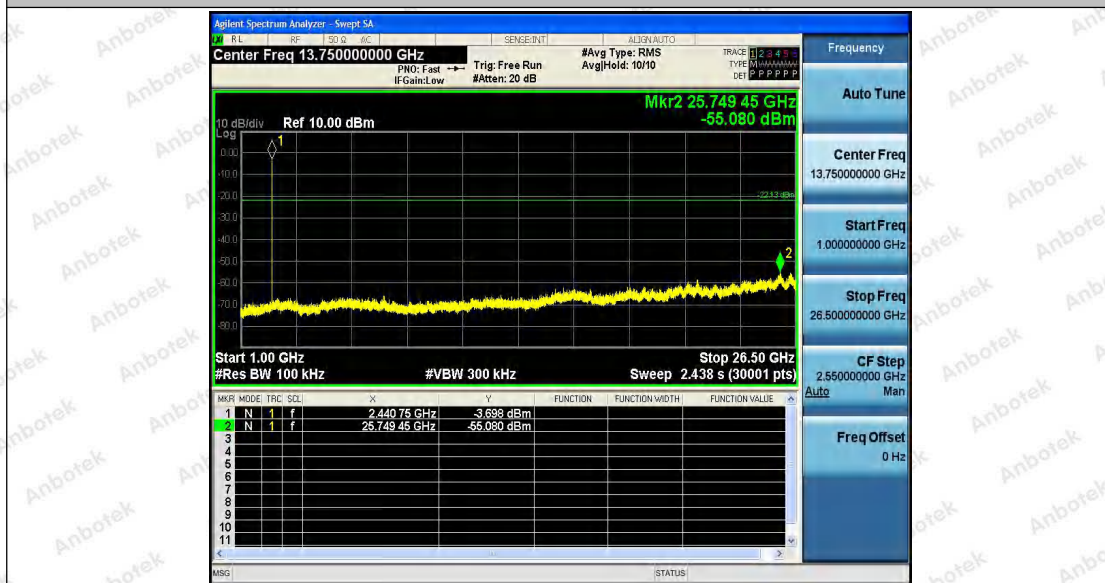
Hotline  
 400-003-0500  
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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500

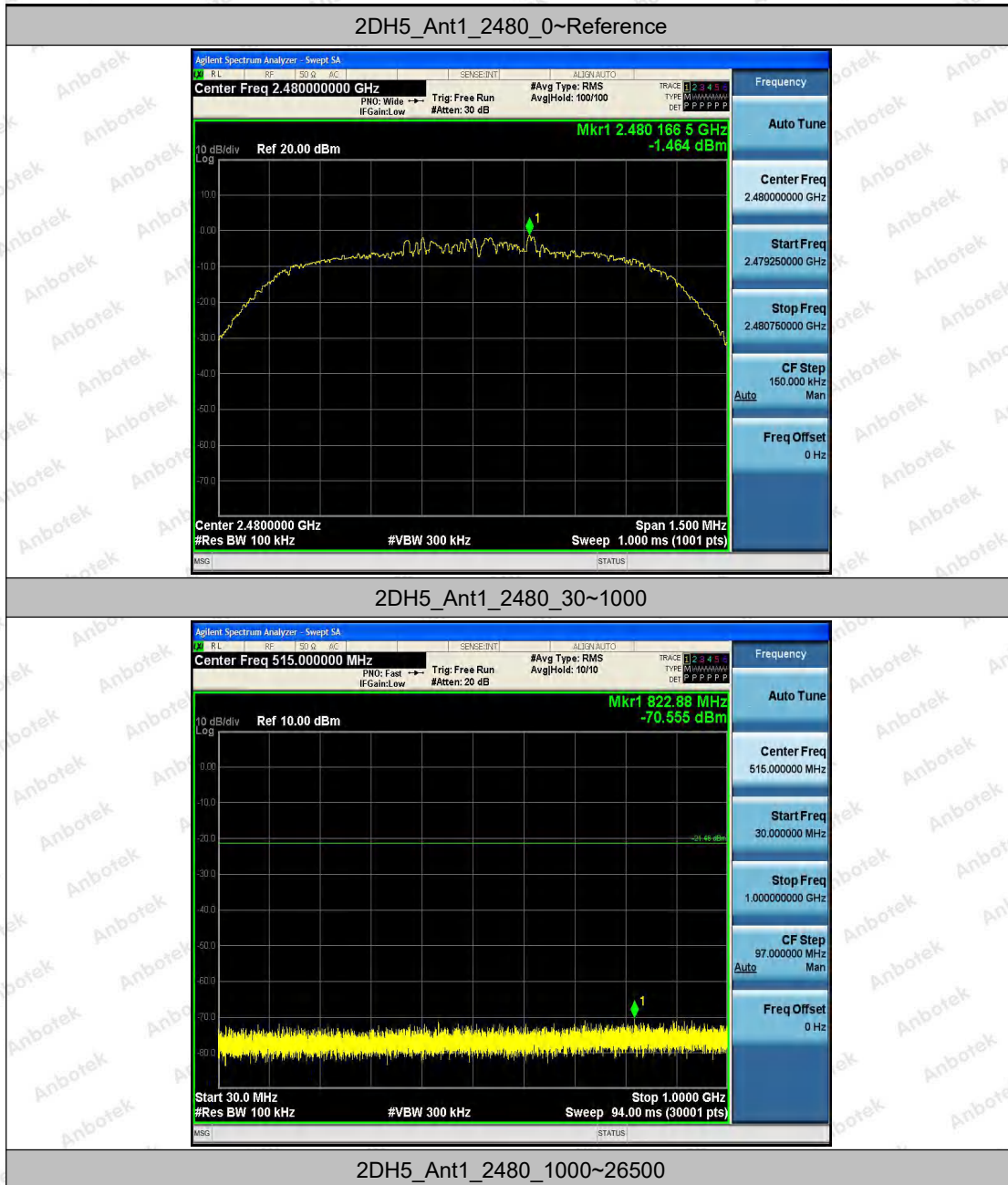


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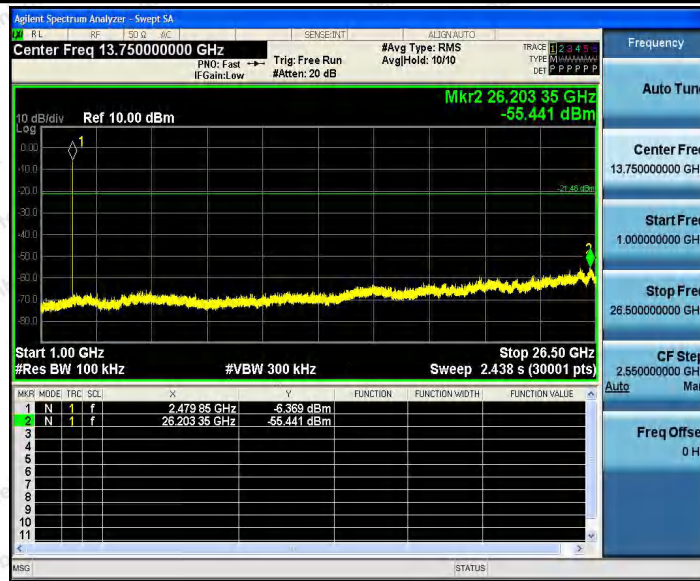


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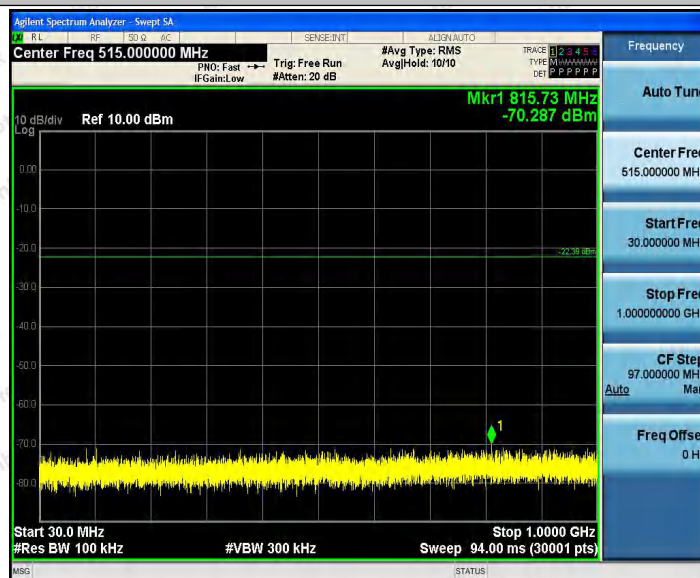
Hotline  
 400-003-0500  
[www.anbotek.com](http://www.anbotek.com)



3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

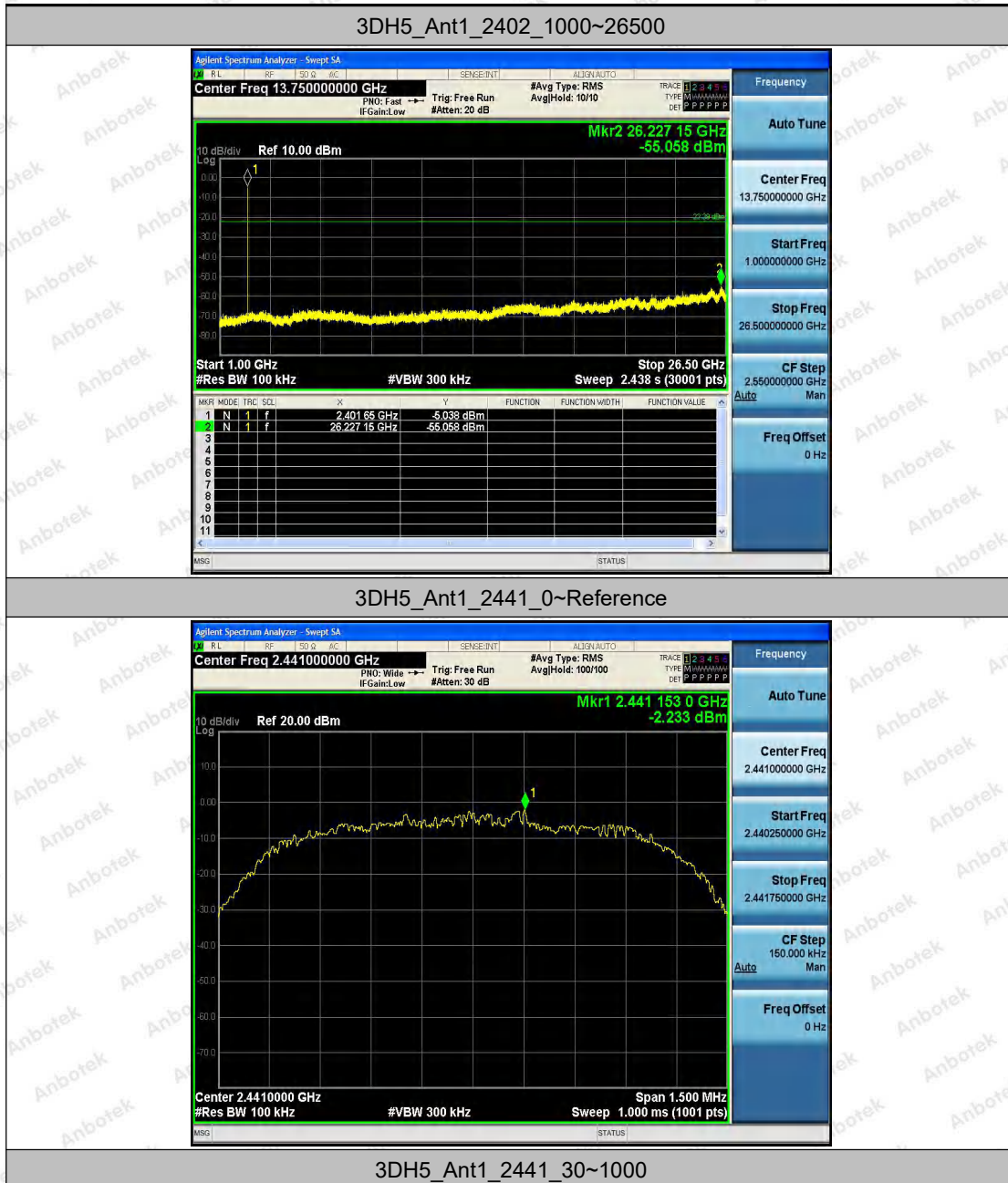


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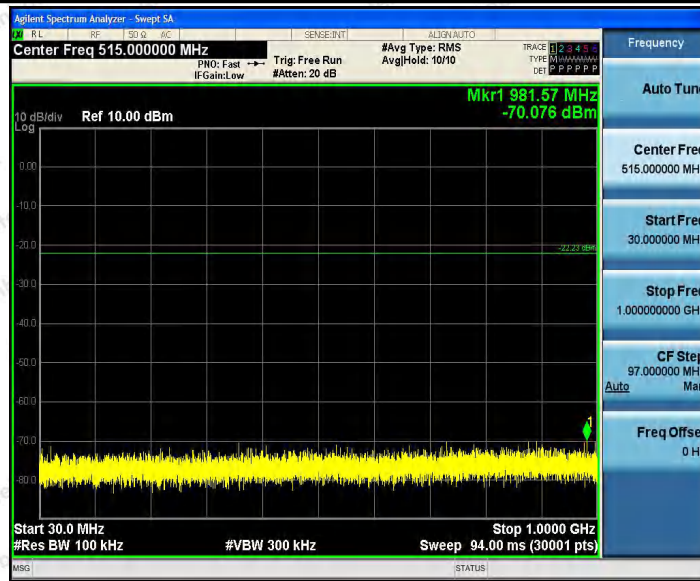


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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference

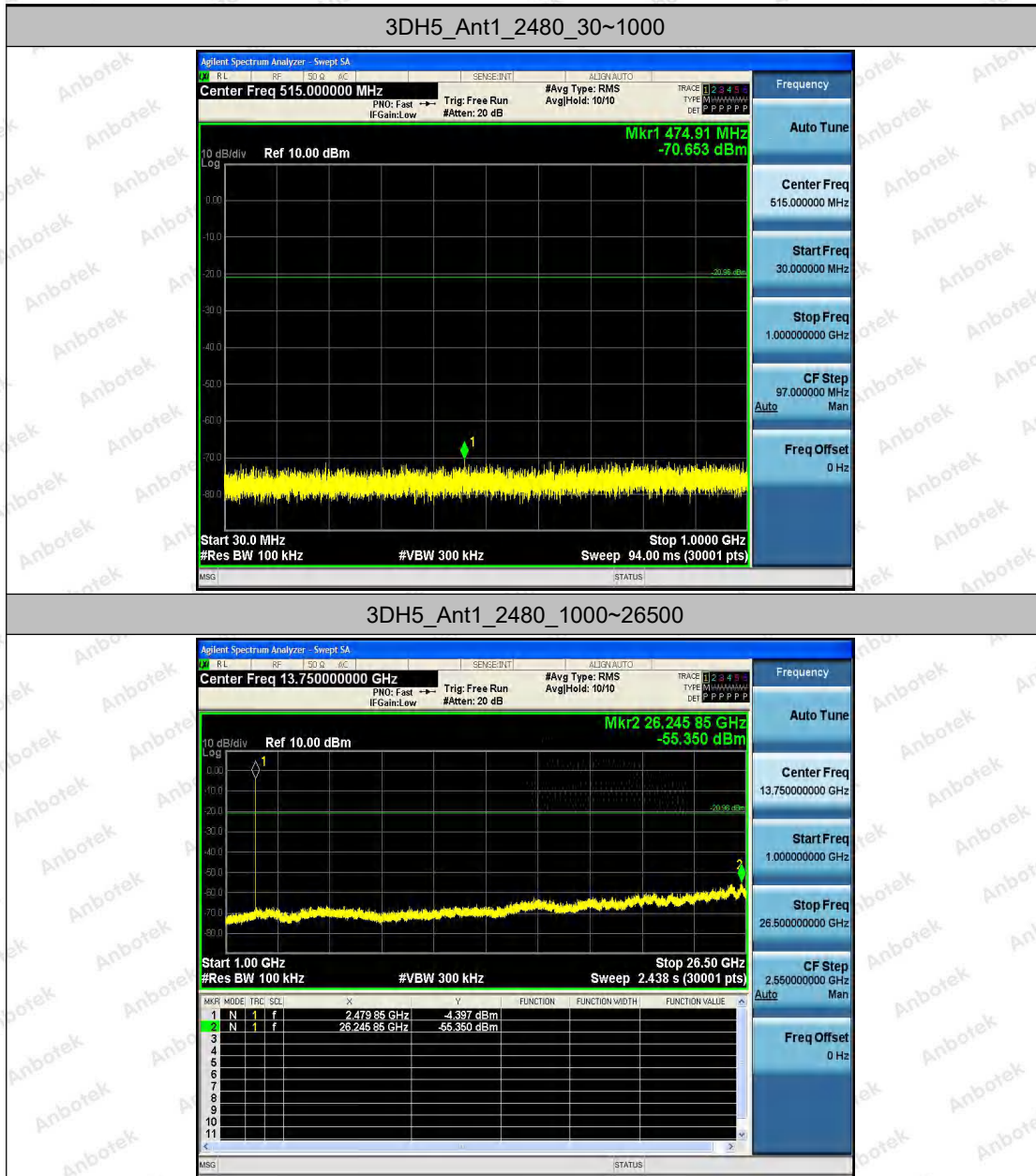


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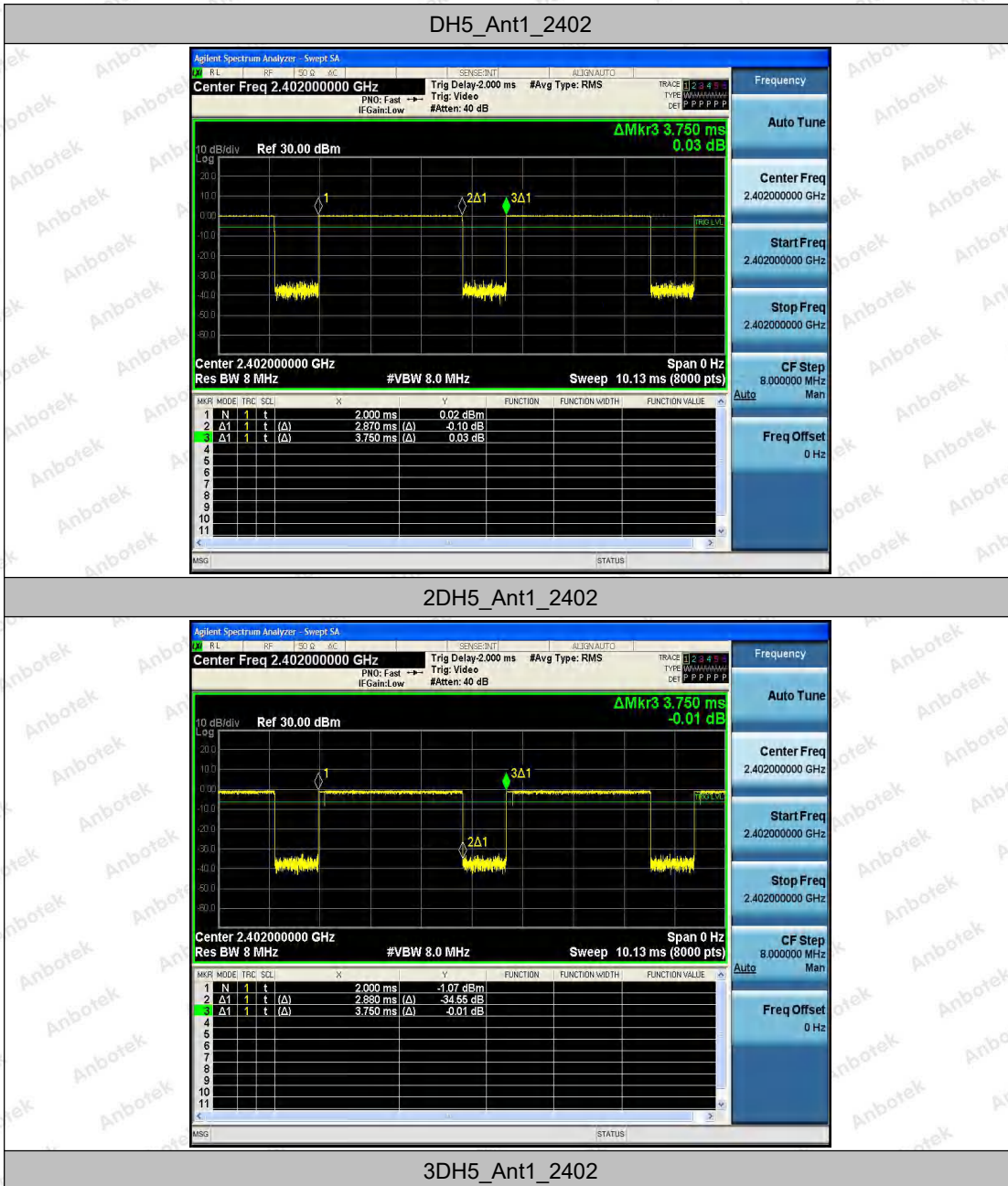
## Appendix I: Duty Cycle

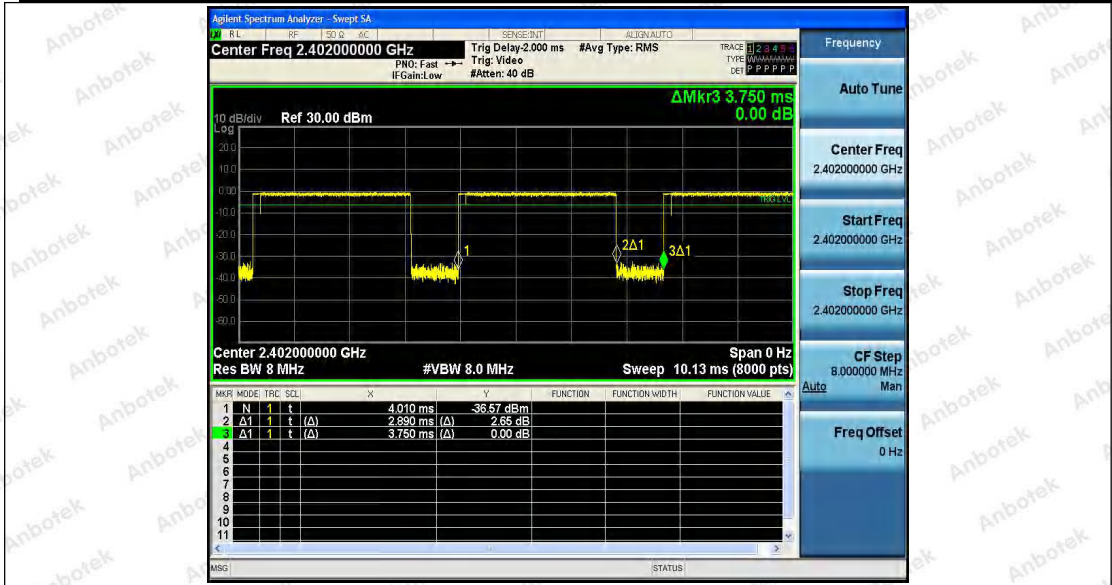
### Test Result

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.87	3.75	0.765 3	76.53	1.16	---	PASS
2DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS
3DH5	Ant1	2402	2.89	3.75	0.770 7	77.07	1.13	---	PASS



## Test Graphs





---End---