

## Appendix Test Data

Report No.:	18220WC20048801	Test Sample No.:	1-2-2
Start Test Date:	2022.3.21	Finish Test Date:	2022.3.23
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	56.5 %
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	0.948	2401.538	2402.486	---	PASS
		2441	0.939	2440.538	2441.477	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.341	2401.331	2402.672	---	PASS
		2441	1.329	2440.334	2441.663	---	PASS
		2480	1.311	2479.340	2480.651	---	PASS
3DH5	Ant1	2402	1.281	2401.346	2402.627	---	PASS
		2441	1.326	2440.334	2441.660	---	PASS
		2480	1.272	2479.352	2480.624	---	PASS

## Test Graphs


**DH5\_Ant1\_2441**
**DH5\_Ant1\_2480**



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	0.88739	2401.55 6	2402.443	---	PASS
		2441	0.88479	2440.55 6	2441.441	---	PASS
		2480	0.89815	2479.55 3	2480.452	---	PASS
2DH5	Ant1	2402	1.1989	2401.40 2	2402.601	---	PASS
		2441	1.1935	2440.40 3	2441.596	---	PASS
		2480	1.1950	2479.40 2	2480.597	---	PASS
3DH5	Ant1	2402	1.2142	2401.38 3	2402.597	---	PASS
		2441	1.2058	2440.38 9	2441.594	---	PASS
		2480	1.2086	2479.38 6	2480.595	---	PASS

## Test Graphs

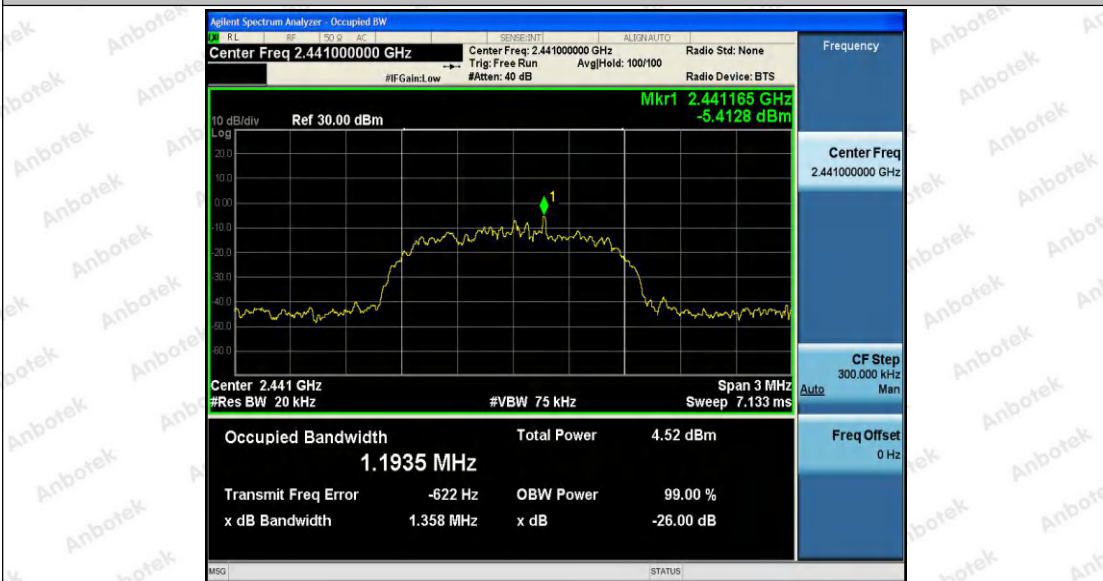




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

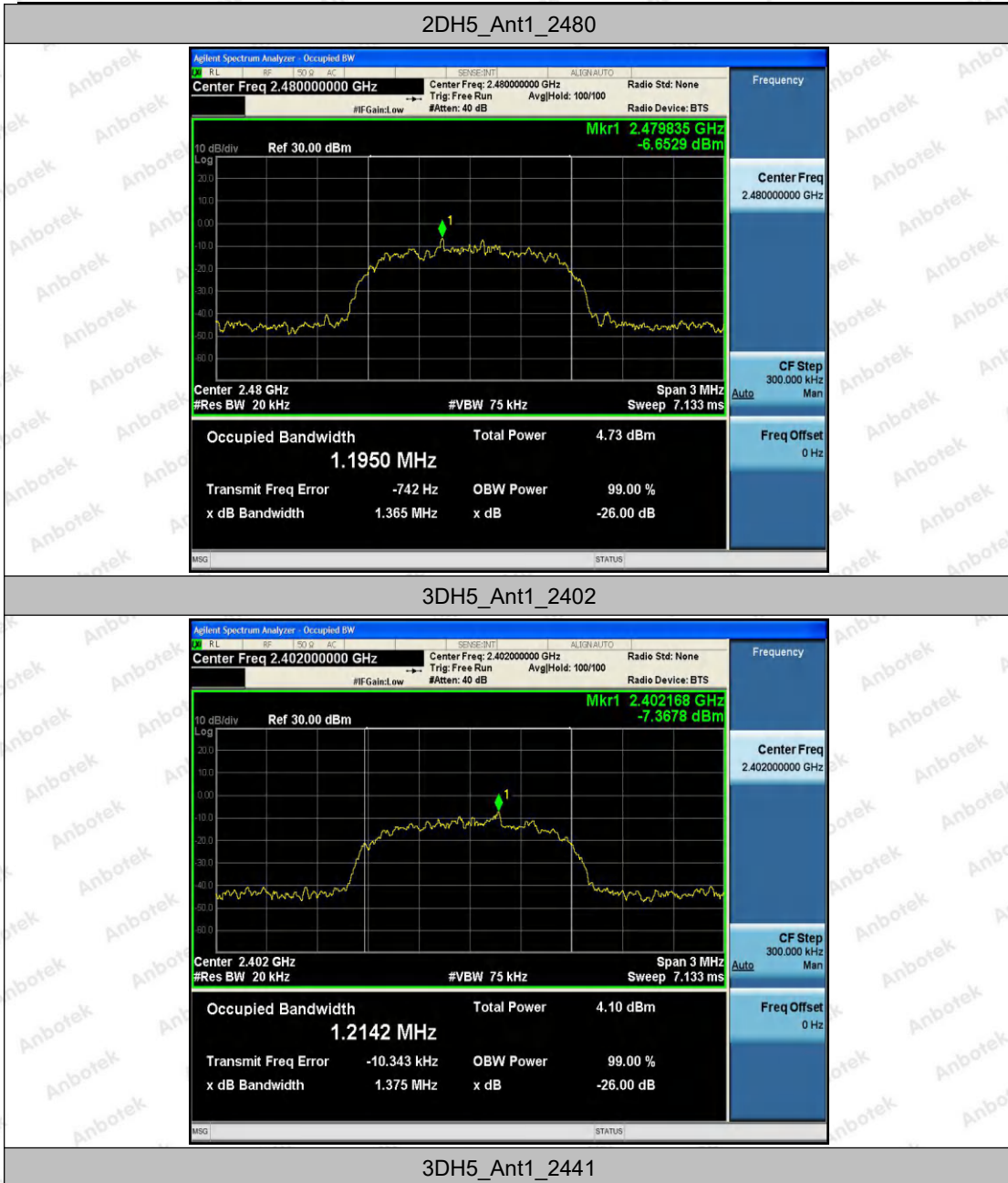


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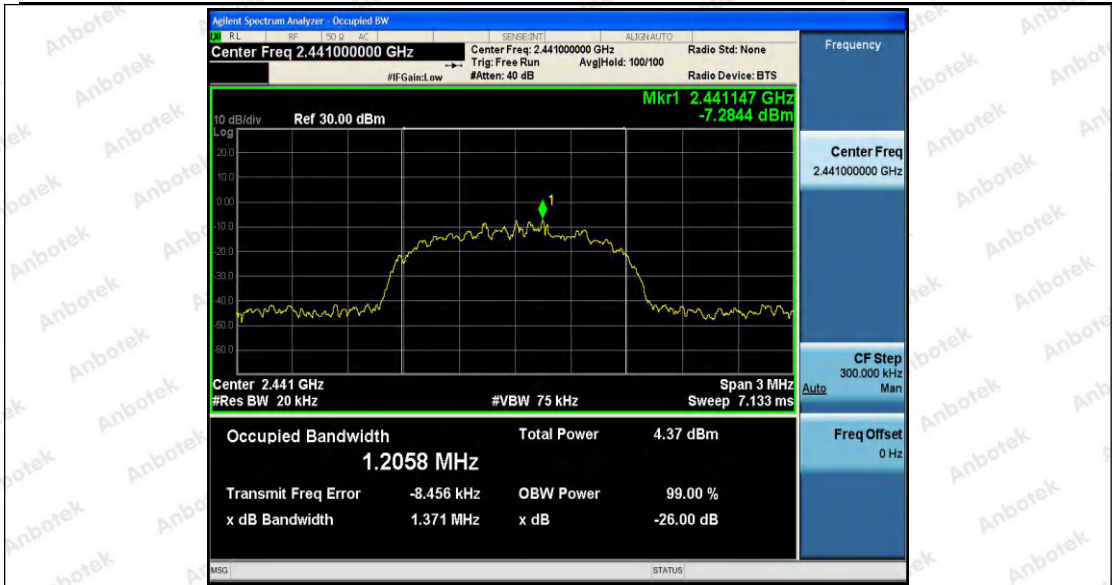


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3DH5\_Ant1\_2480



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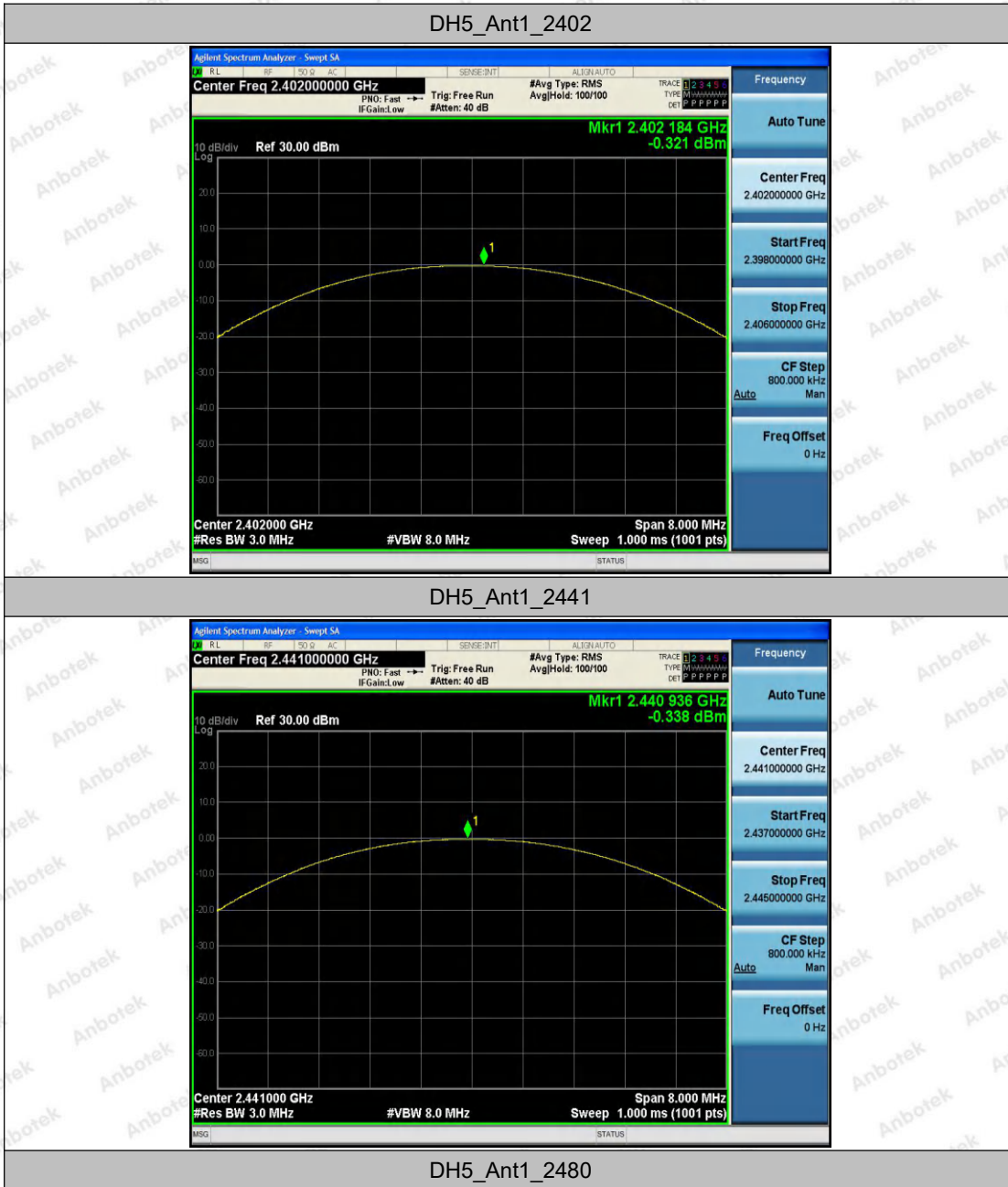
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## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-0.32	≤20.97	PASS
		2441	-0.34	≤20.97	PASS
		2480	0.47	≤20.97	PASS
2DH5	Ant1	2402	-0.85	≤20.97	PASS
		2441	-1.05	≤20.97	PASS
		2480	-0.2	≤20.97	PASS
3DH5	Ant1	2402	-0.68	≤20.97	PASS
		2441	-0.89	≤20.97	PASS
		2480	-0.13	≤20.97	PASS

## Test Graphs



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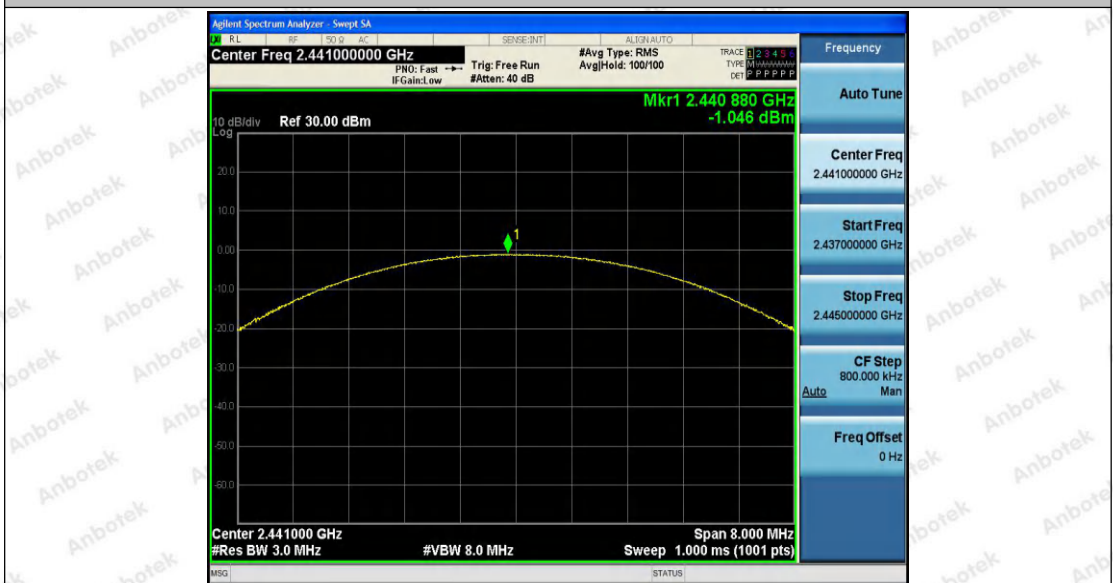
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

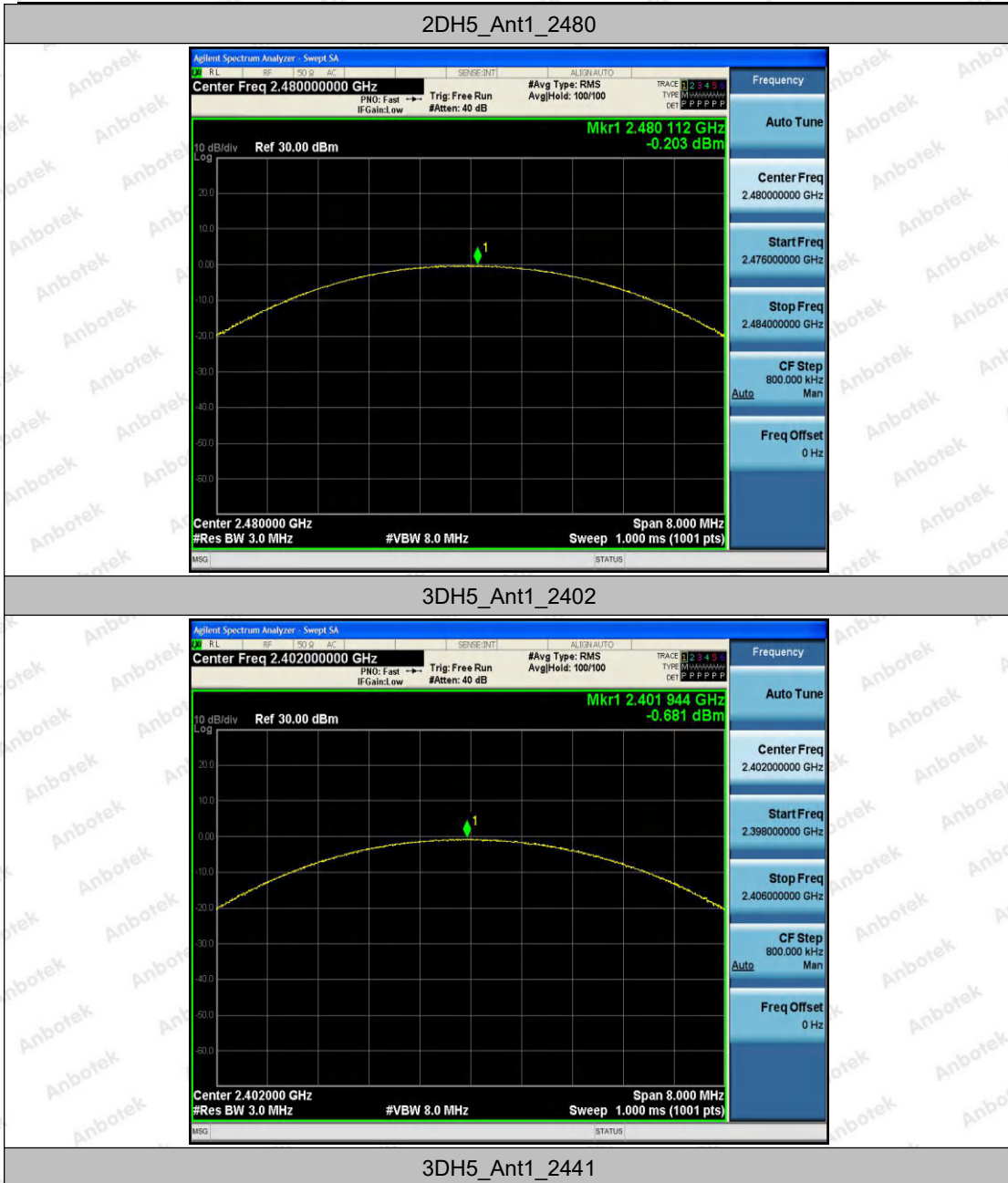


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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.794	≥0.632	PASS
2DH5	Ant1	Hop	1.136	≥0.894	PASS
3DH5	Ant1	Hop	0.976	≥0.884	PASS



## Test Graphs



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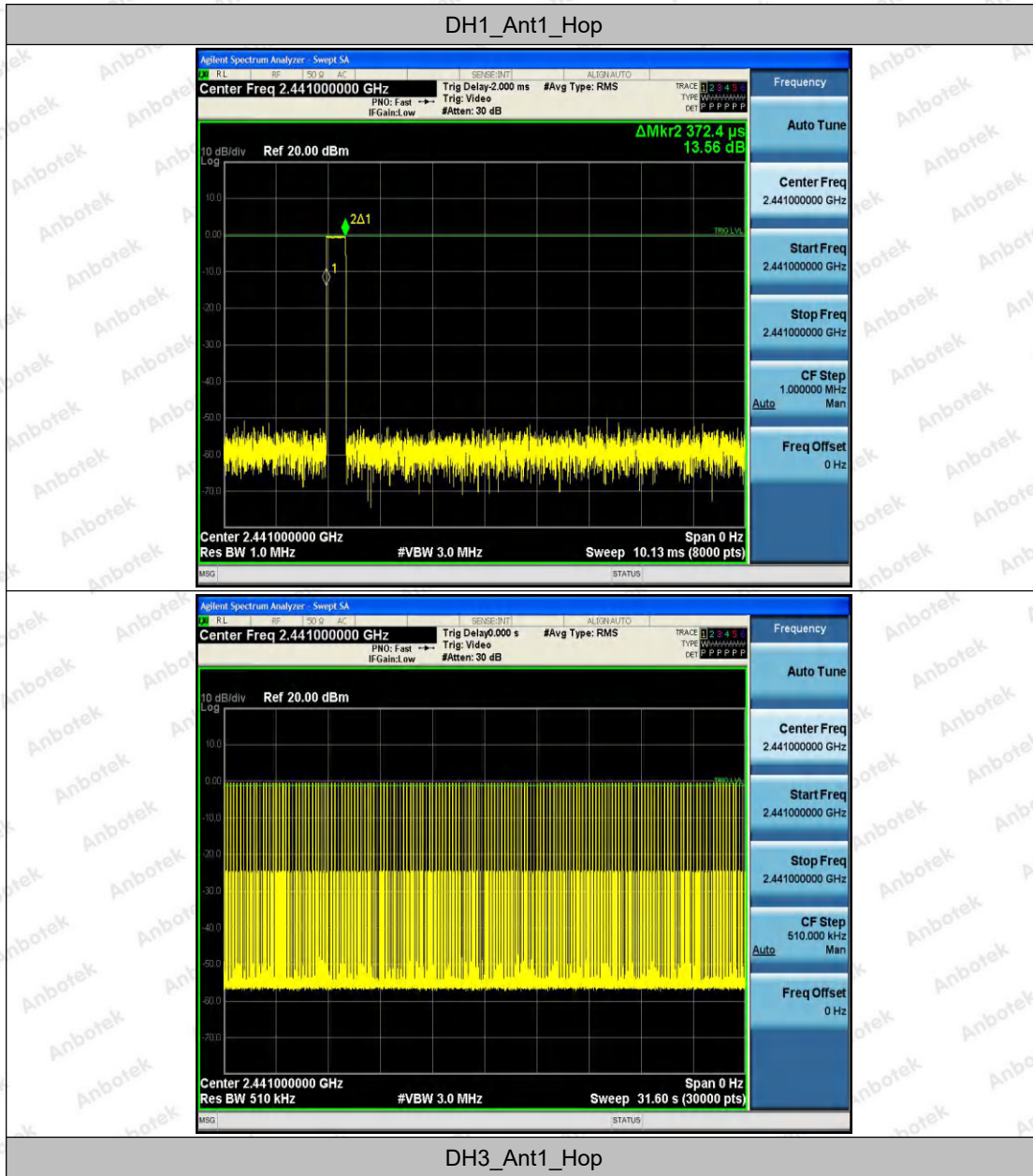
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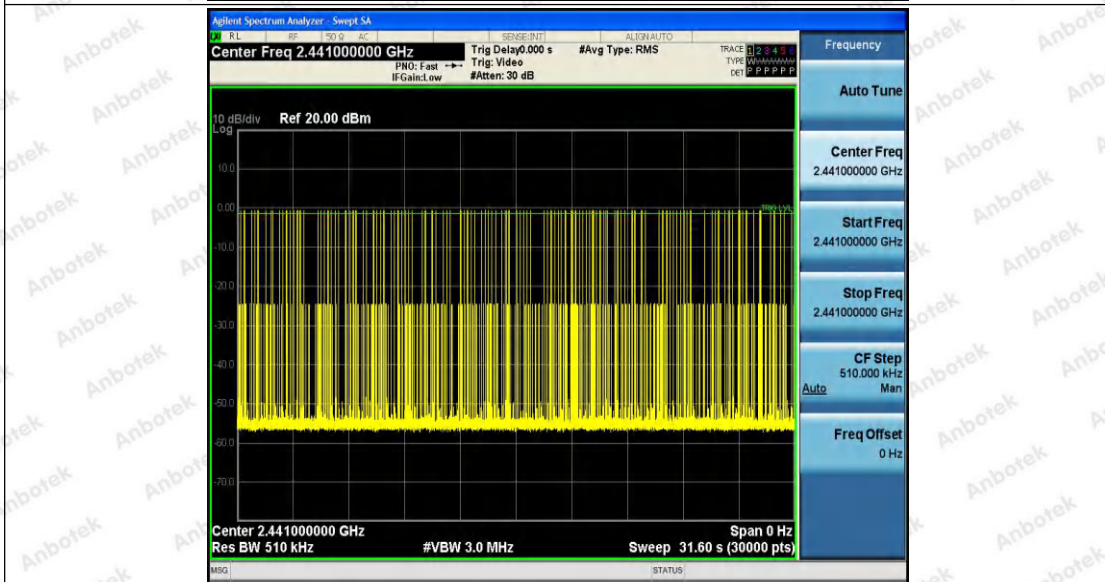
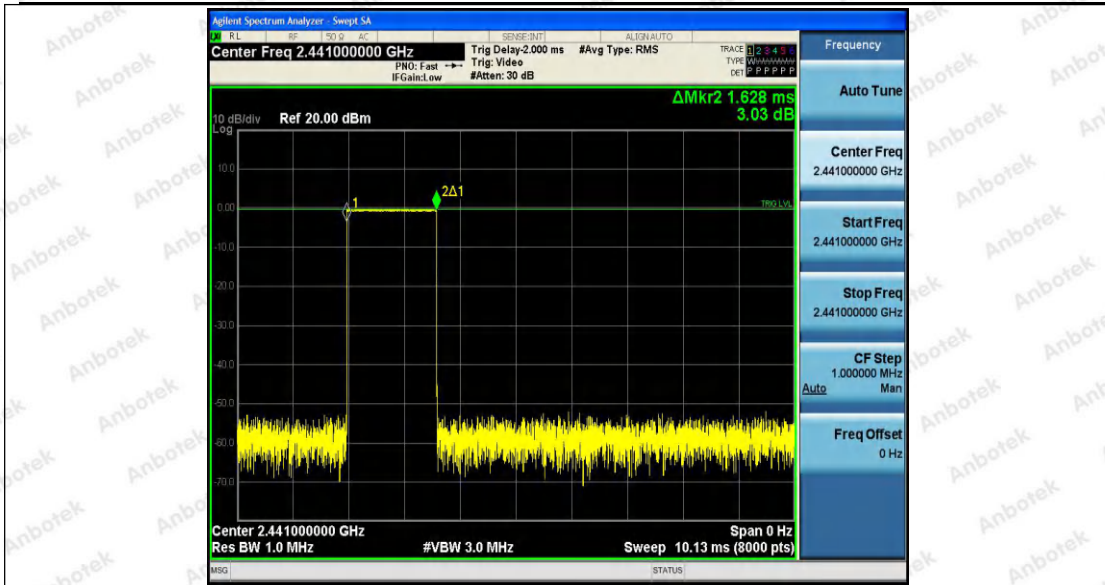
## Appendix E: Time of occupancy

### Test Result

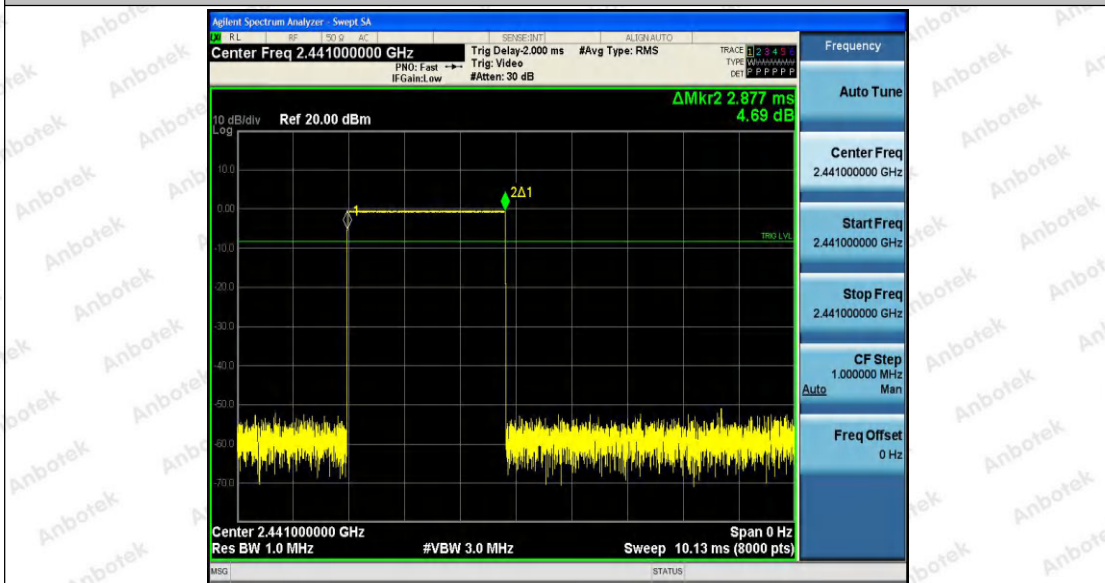
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.37	313	0.117	≤0.4	PASS
DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
DH5	Ant1	Hop	2.88	103	0.296	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	159	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.88	102	0.294	≤0.4	PASS
3DH1	Ant1	Hop	0.38	313	0.119	≤0.4	PASS
3DH3	Ant1	Hop	1.63	159	0.259	≤0.4	PASS
3DH5	Ant1	Hop	2.88	109	0.314	≤0.4	PASS

## Test Graphs





DH5\_Ant1\_Hop

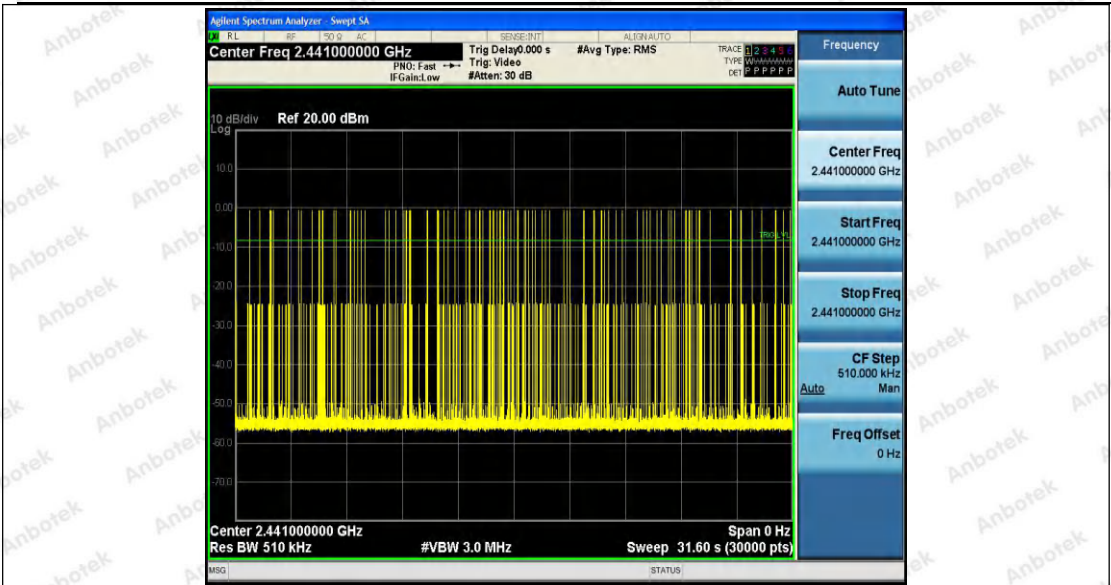


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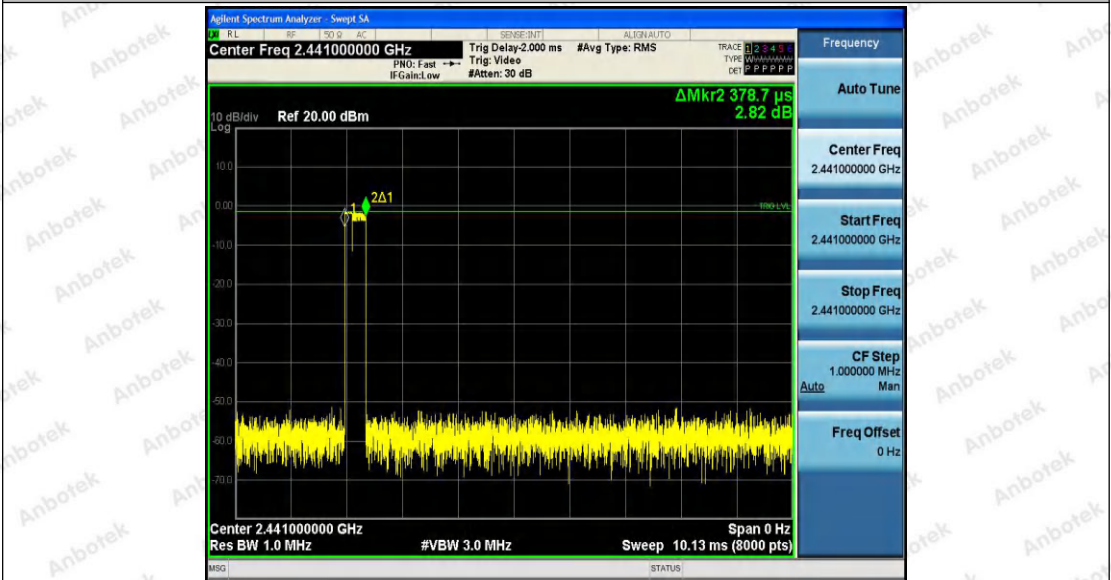
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2DH1\_Ant1\_Hop

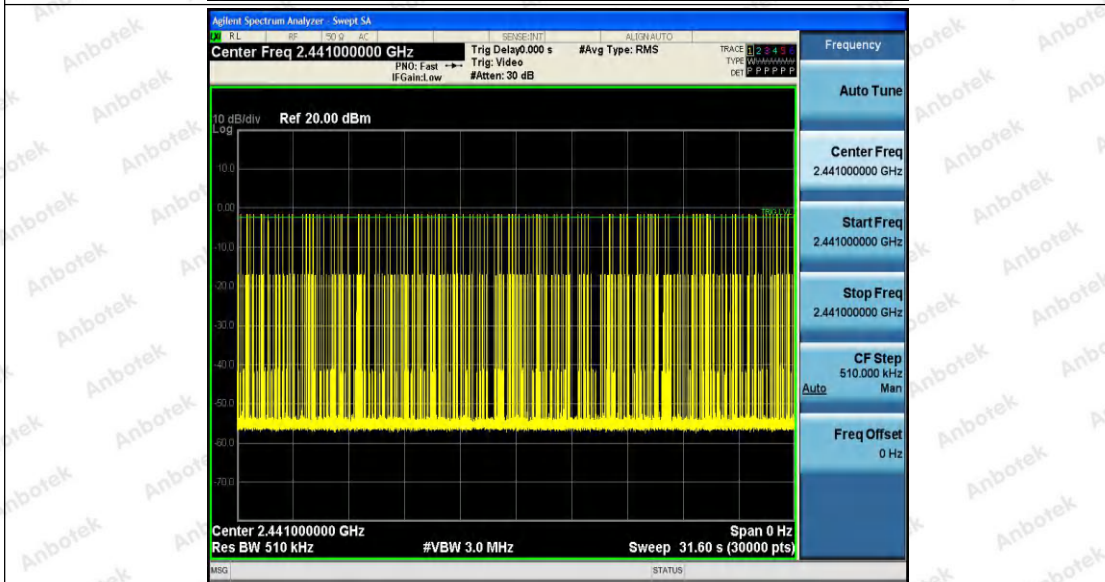
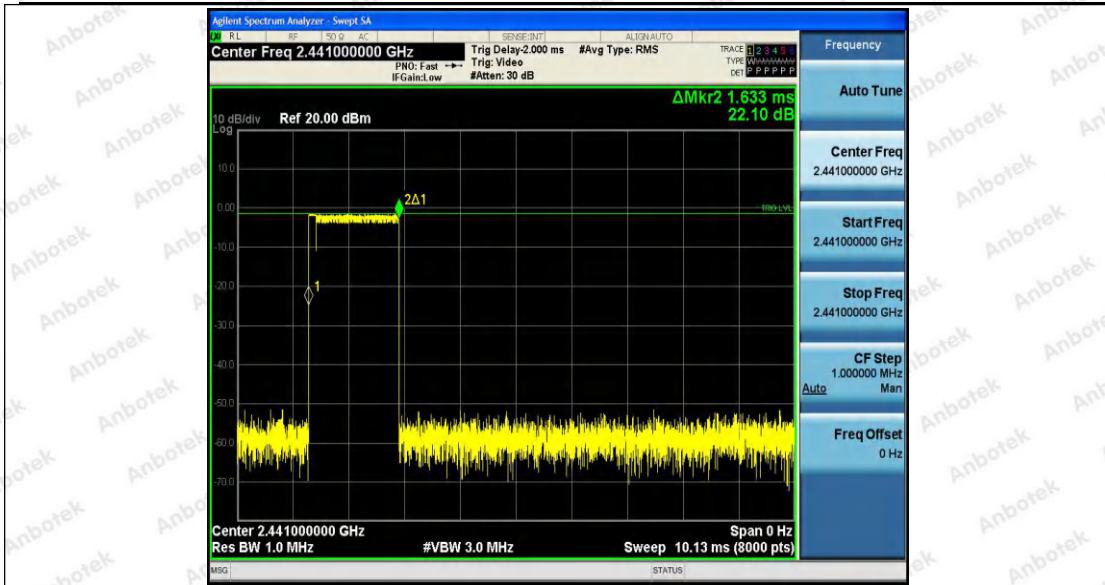


2DH3\_Ant1\_Hop

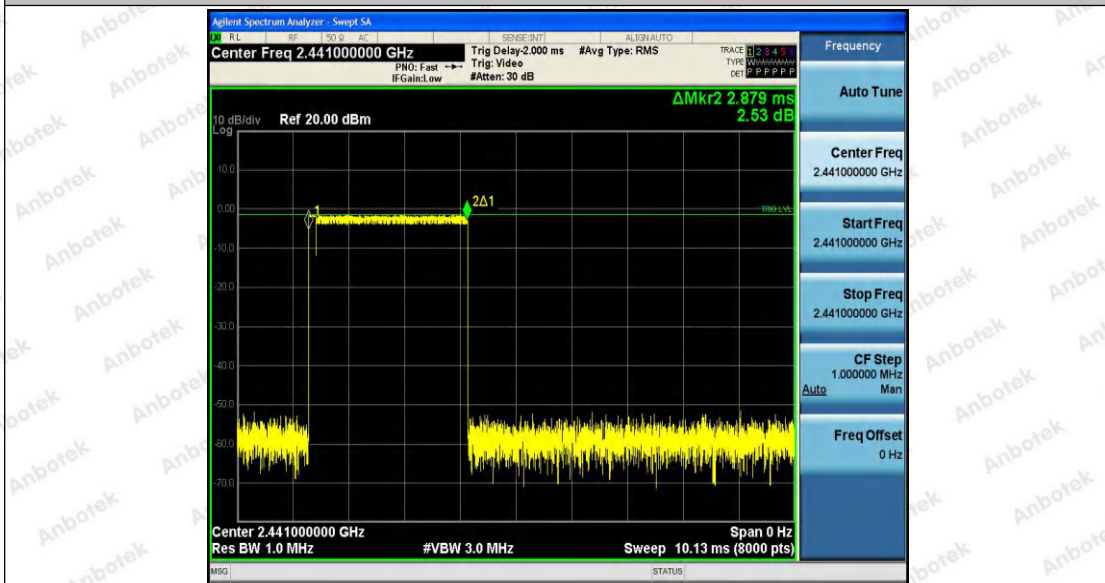
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2DH5\_Ant1\_Hop

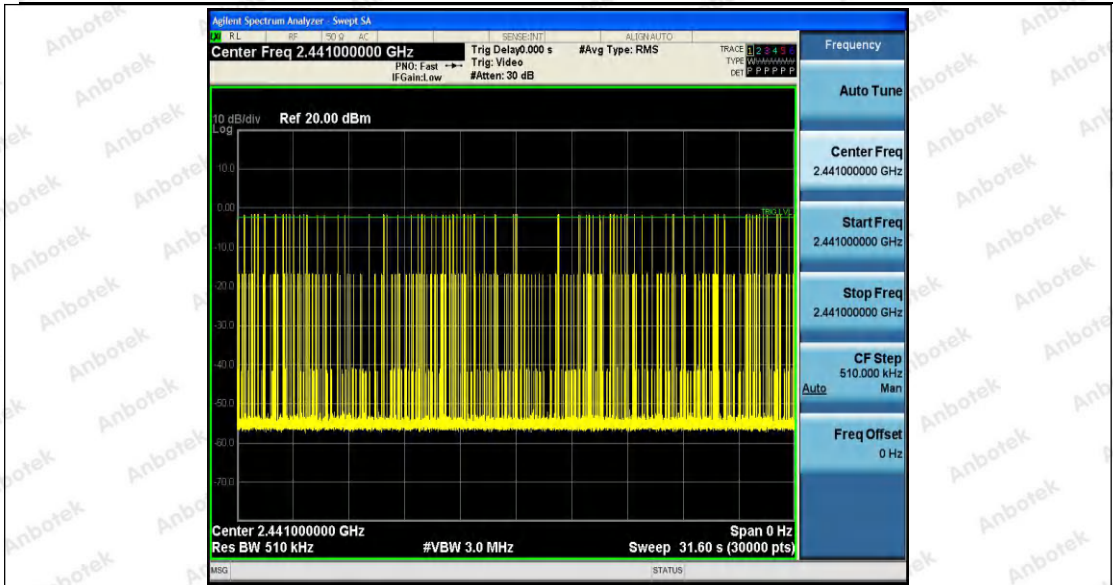


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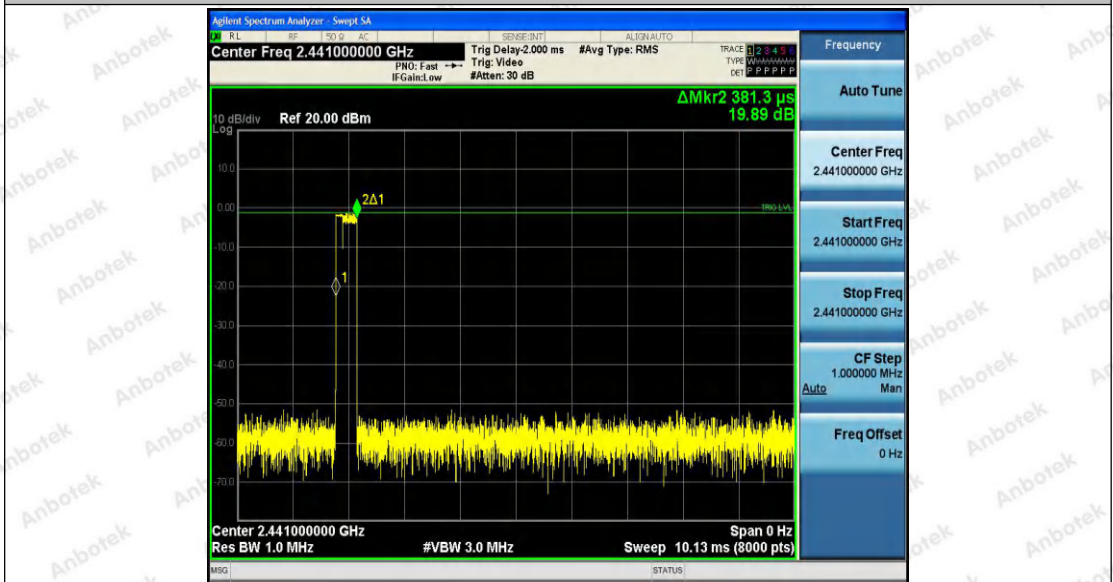
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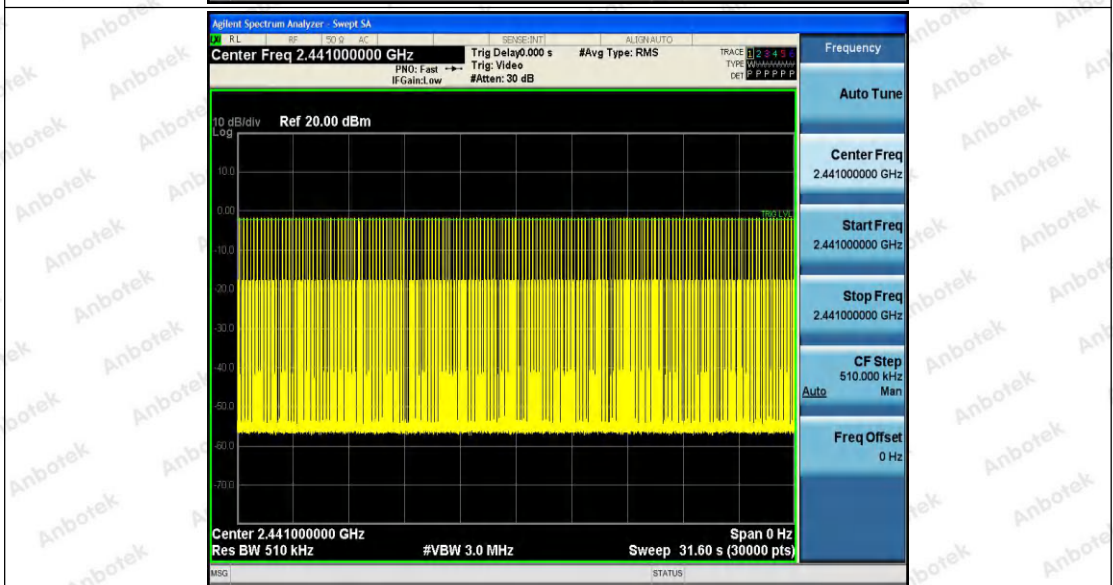
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3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



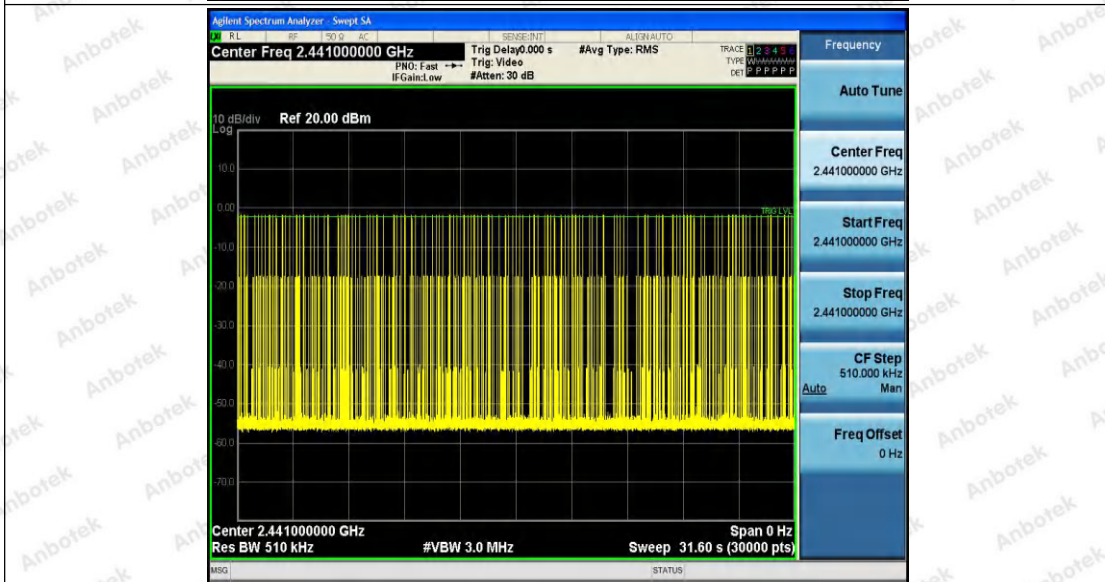
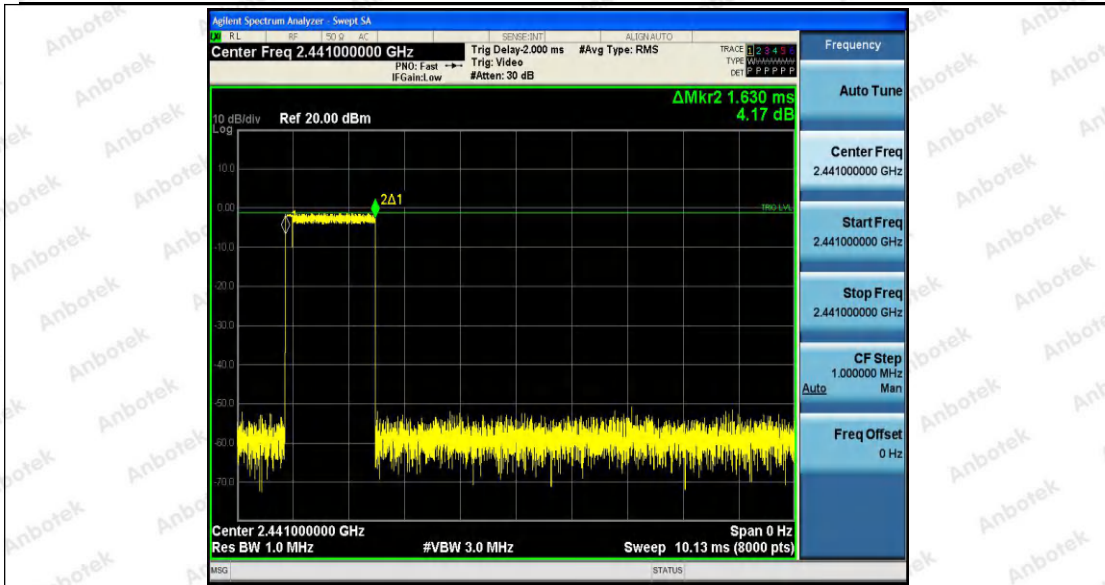
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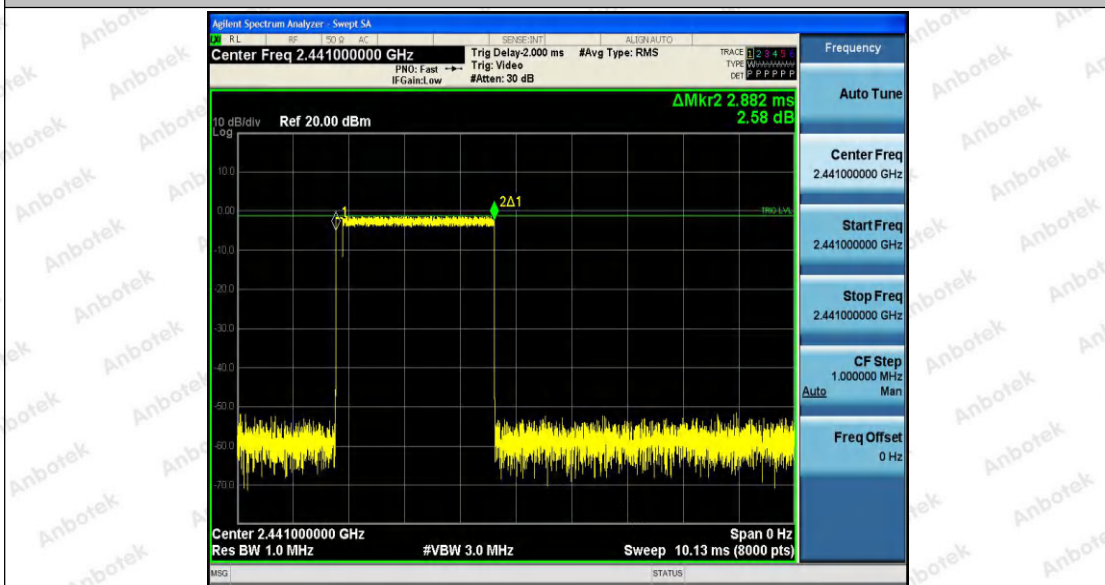
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### 3DH5\_Ant1\_Hop

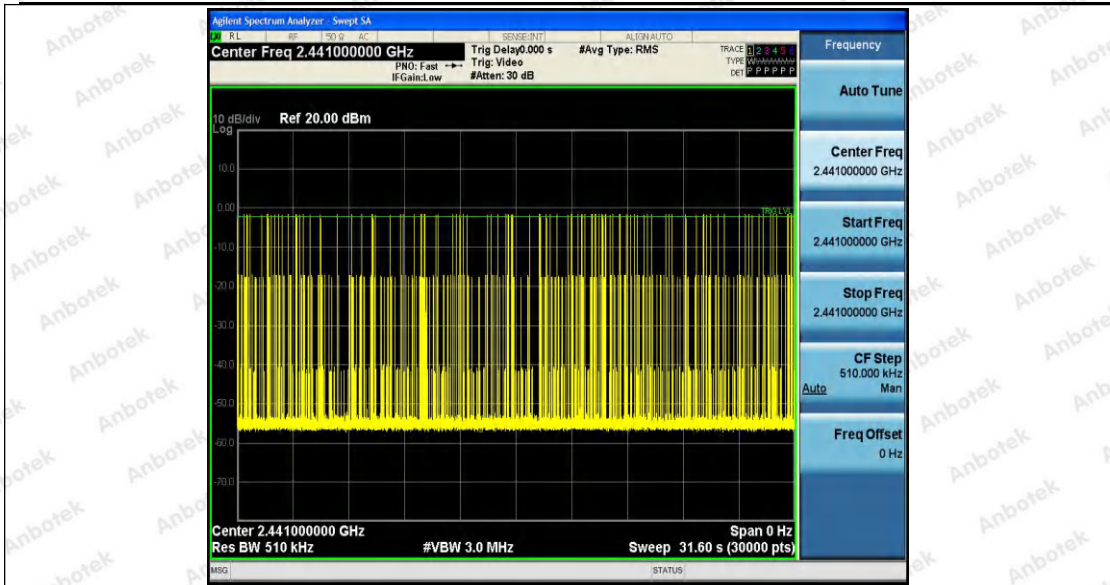


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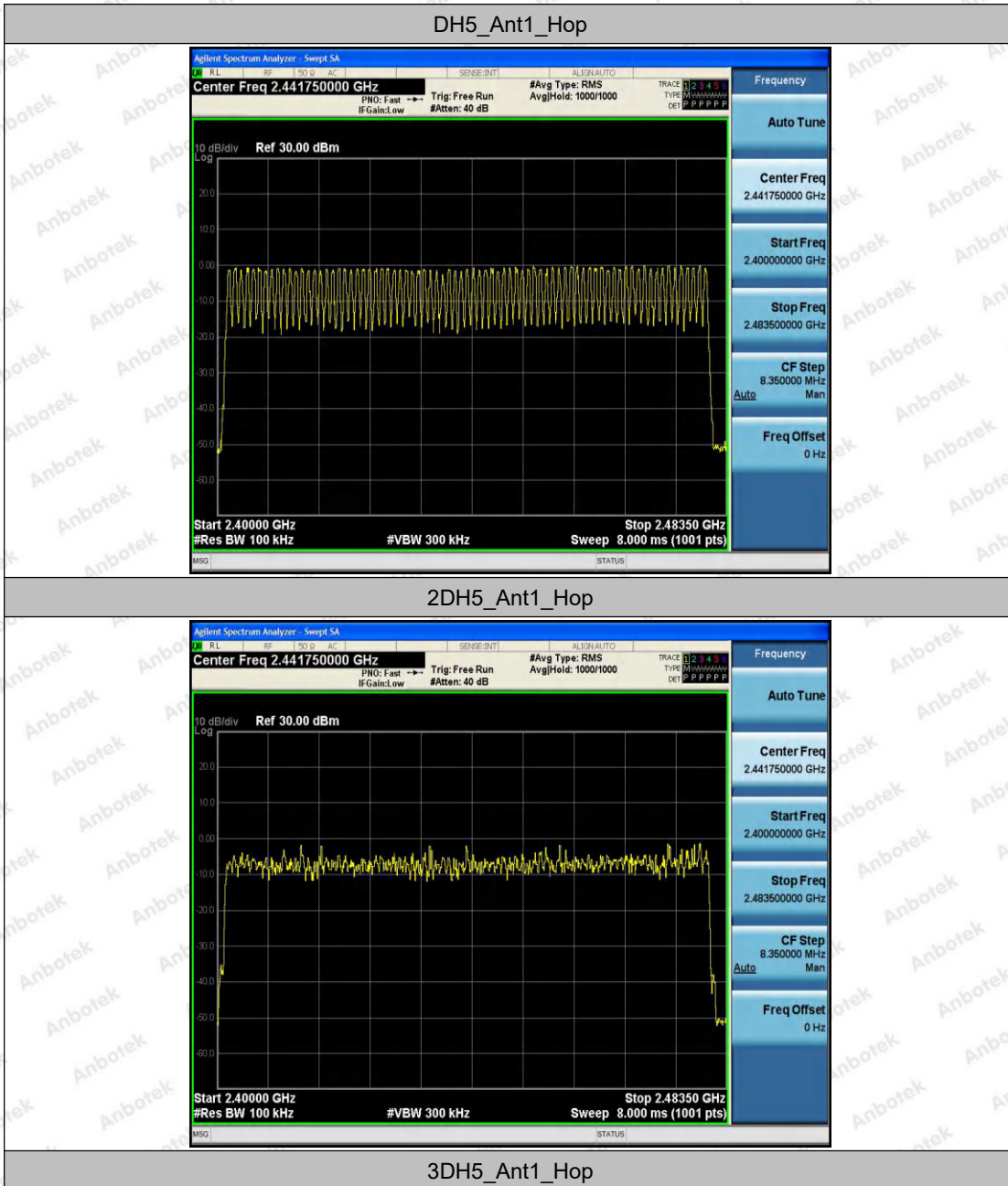
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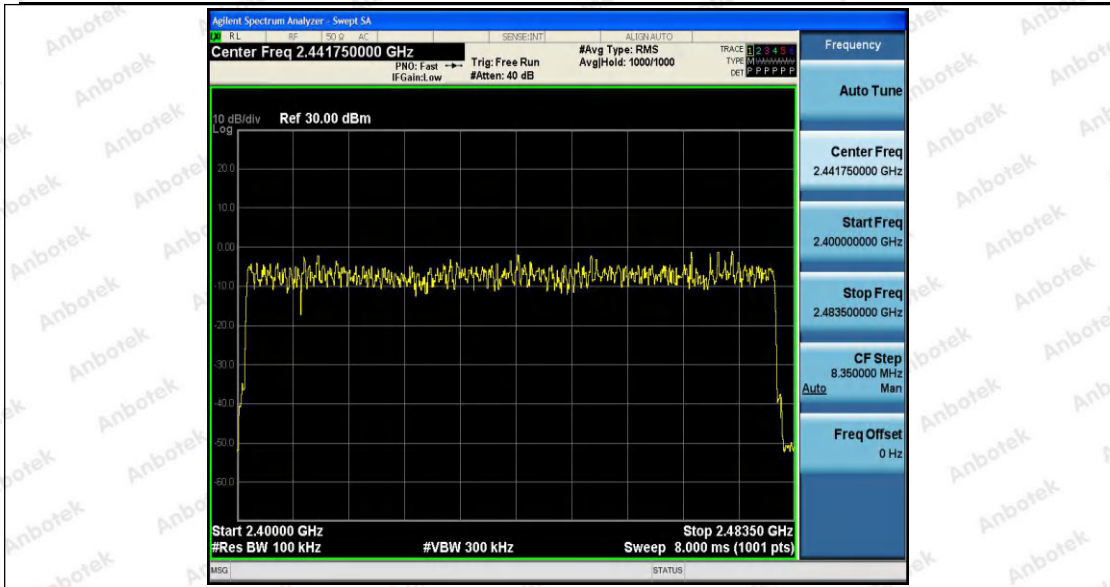
## Appendix F: Number of hopping channels

### 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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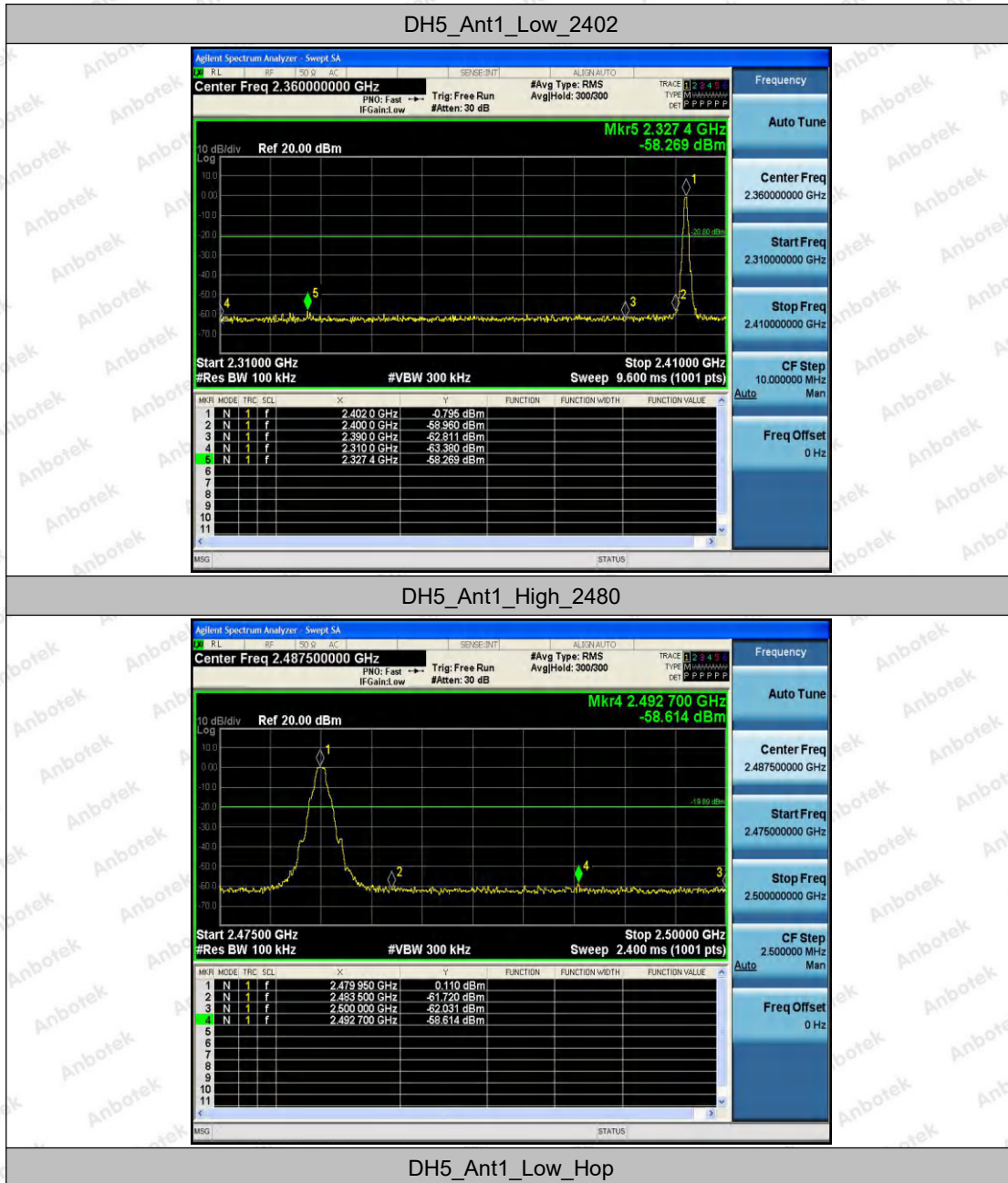
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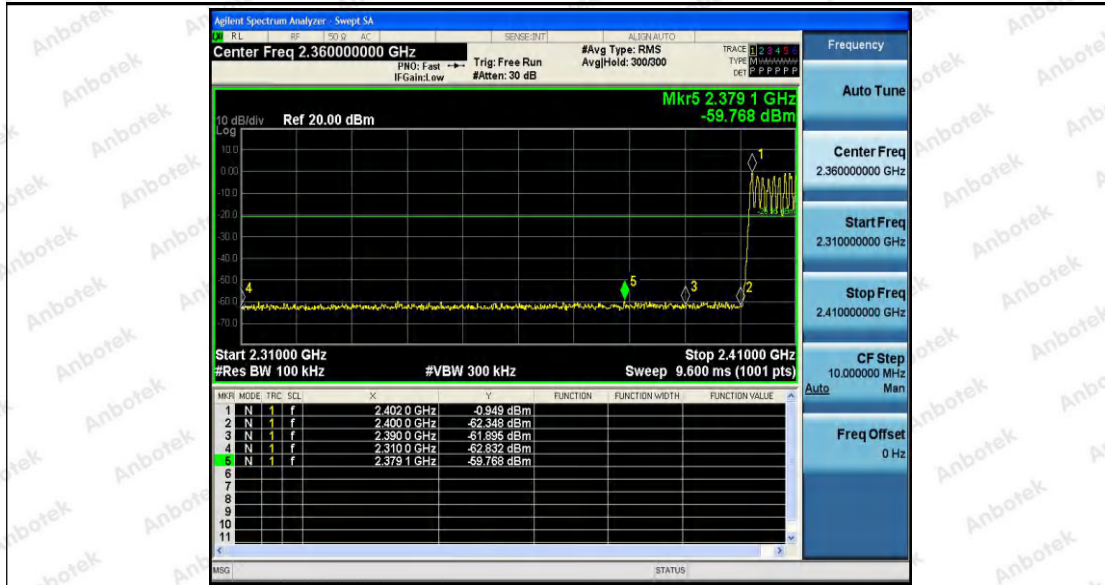
## Appendix G: Band edge measurements

### Test Result

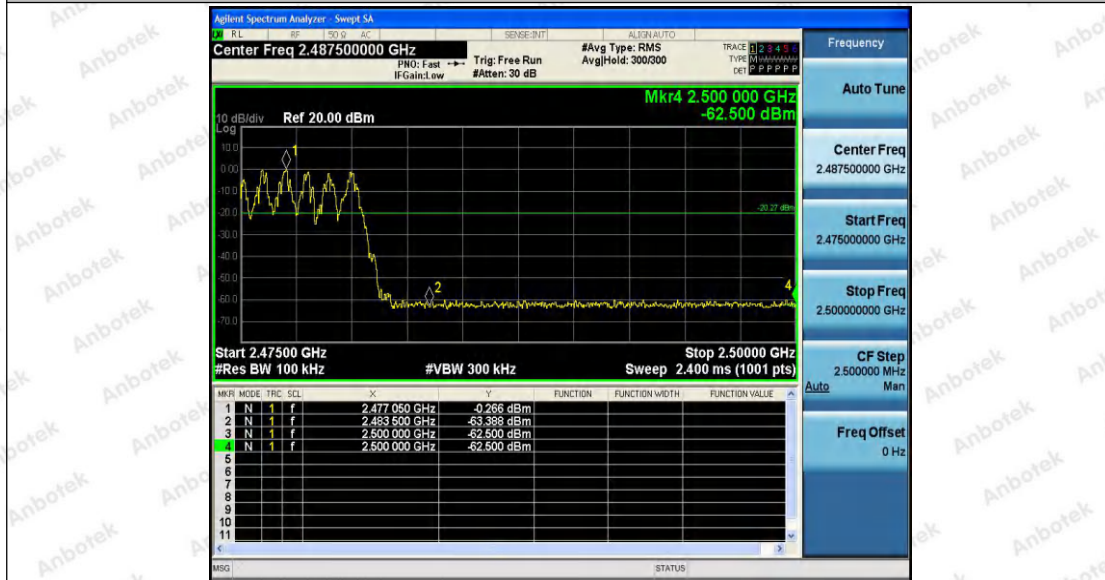
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.80	-58.27	≤-20.8	PASS
		High	2480	0.11	-58.61	≤-19.89	PASS
		Low	Hop	-0.95	-59.77	≤-20.95	PASS
		High	Hop	-0.27	-62.5	≤-20.27	PASS
2DH5	Ant1	Low	2402	-2.88	-56.76	≤-22.88	PASS
		High	2480	-1.21	-59.16	≤-21.21	PASS
		Low	Hop	-2.38	-59.88	≤-22.38	PASS
		High	Hop	-5.07	-62.76	≤-25.07	PASS
3DH5	Ant1	Low	2402	-1.91	-58.11	≤-21.91	PASS
		High	2480	-1.58	-59.66	≤-21.58	PASS
		Low	Hop	-4.06	-58.94	≤-24.06	PASS
		High	Hop	-1.65	-62.45	≤-21.65	PASS

## Test Graphs

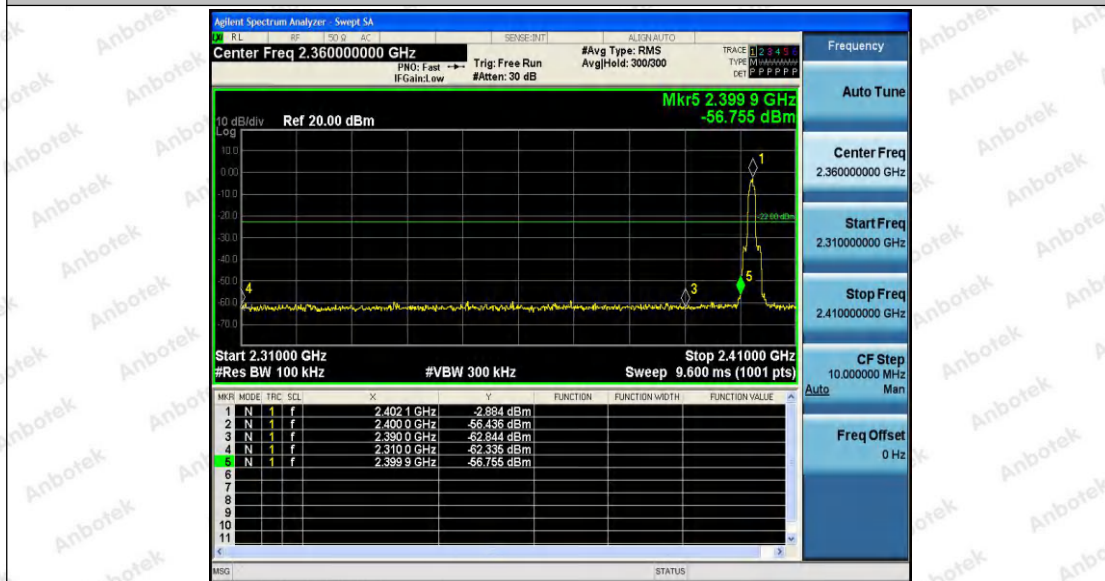




DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



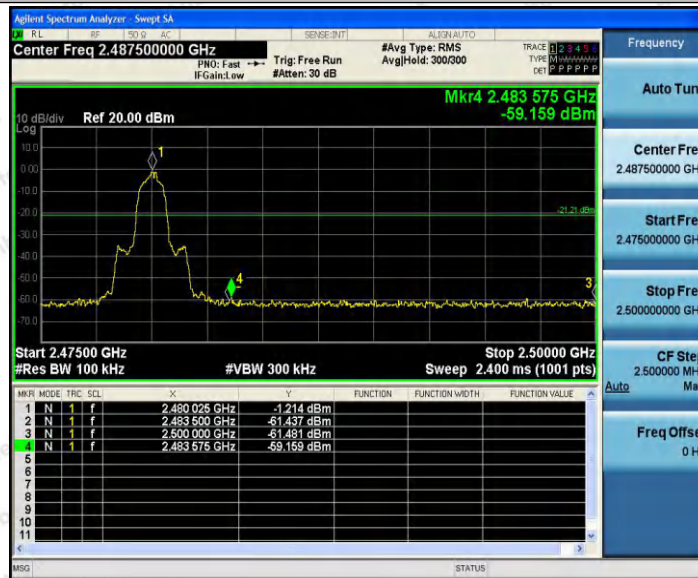
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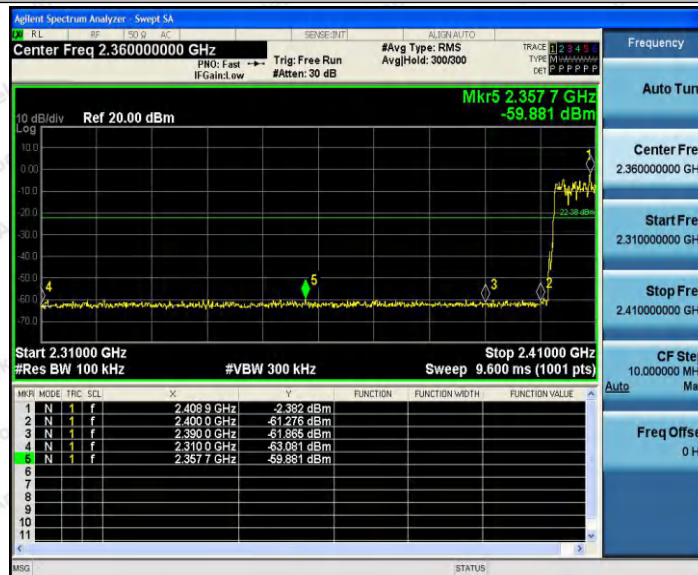
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## 2DH5\_Ant1\_High\_2480



## 2DH5\_Ant1\_Low\_Hop



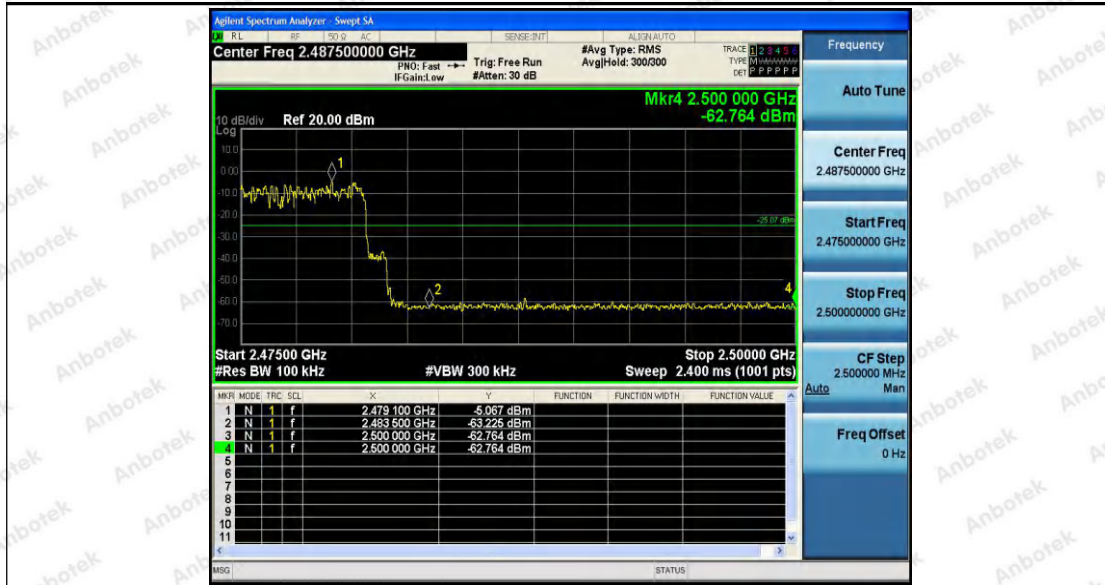
## 2DH5\_Ant1\_High\_Hop

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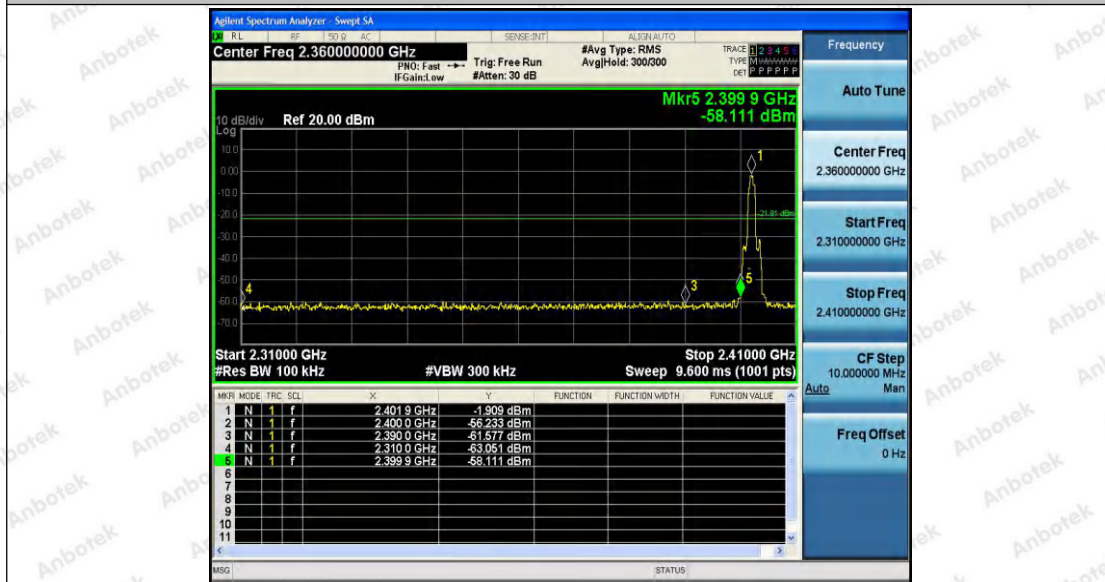
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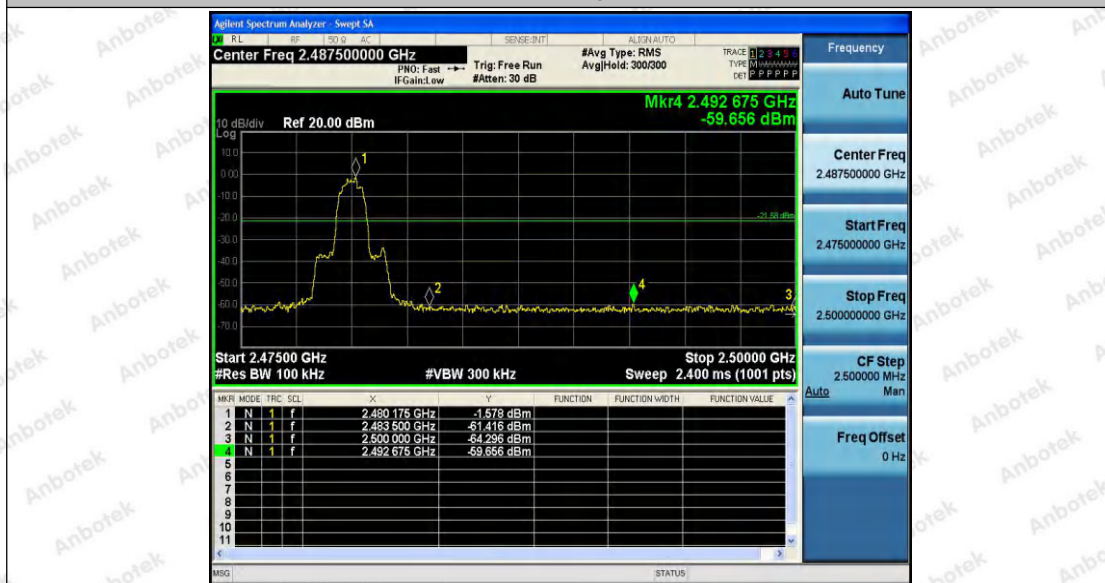
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3DH5\_Ant1\_Low\_2402



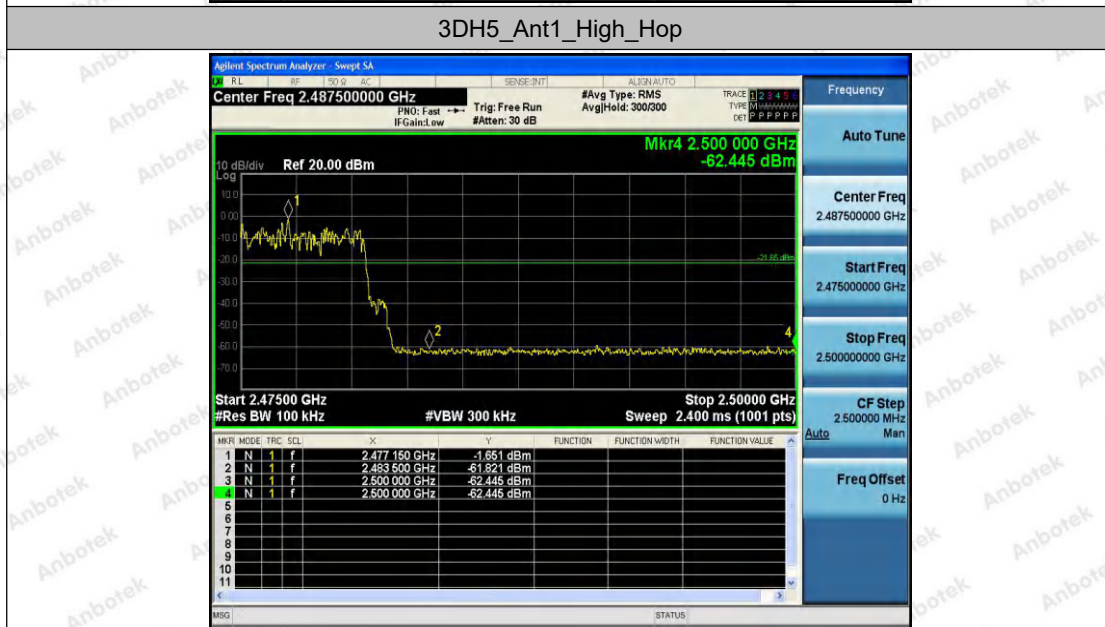
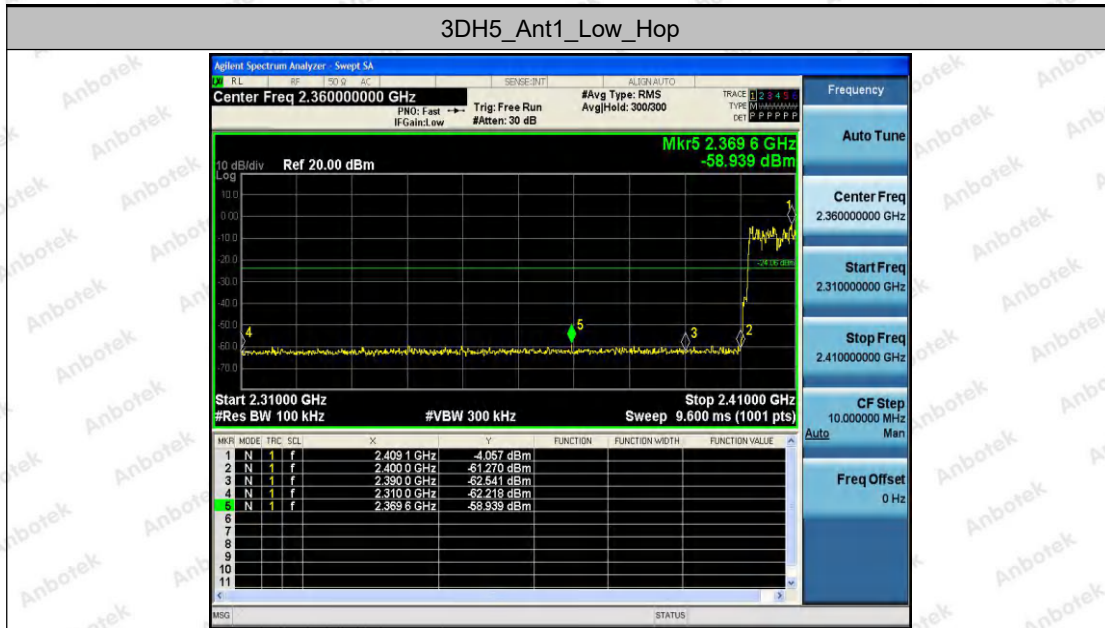
3DH5\_Ant1\_High\_2480



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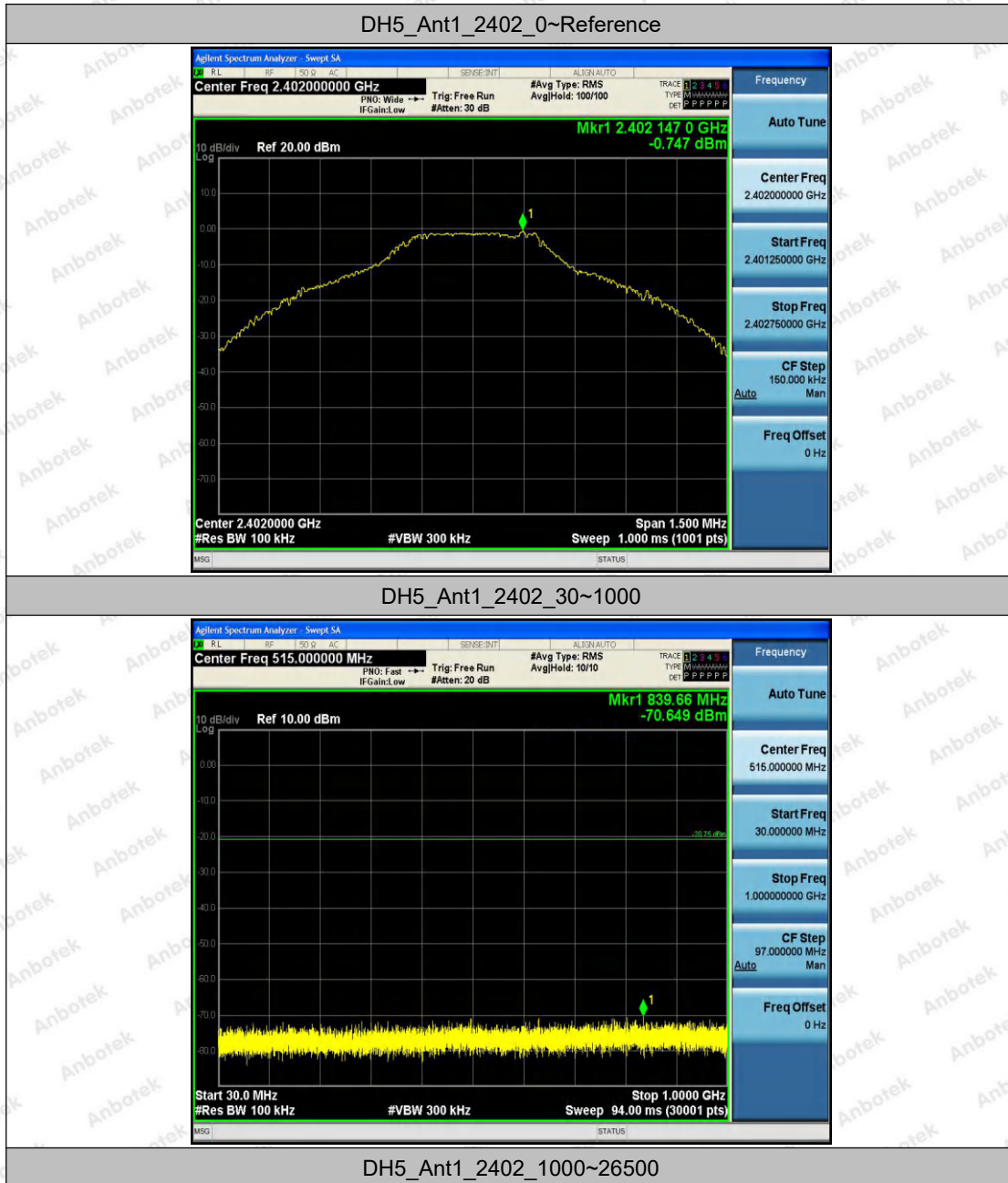
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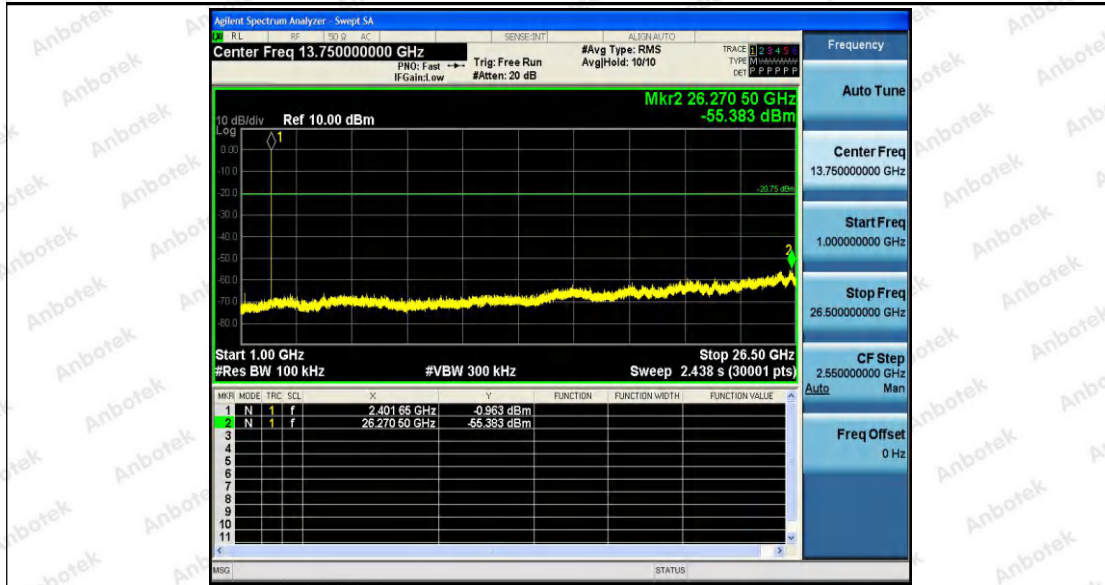
## Appendix H: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.75	-0.75	---	PASS
			30~1000	-0.75	-70.65	≤-20.75	PASS
			1000~26500	-0.75	-55.38	≤-20.75	PASS
		2441	Reference	-1.09	-1.09	---	PASS
			30~1000	-1.09	-70.4	≤-21.09	PASS
			1000~26500	-1.09	-55.32	≤-21.09	PASS
		2480	Reference	0.19	0.19	---	PASS
			30~1000	0.19	-69.8	≤-19.81	PASS
			1000~26500	0.19	-54.82	≤-19.81	PASS
2DH5	Ant1	2402	Reference	-1.75	-1.75	---	PASS
			30~1000	-1.75	-70.98	≤-21.75	PASS
			1000~26500	-1.75	-54.91	≤-21.75	PASS
		2441	Reference	-2.09	-2.09	---	PASS
			30~1000	-2.09	-70.36	≤-22.09	PASS
			1000~26500	-2.09	-41.52	≤-22.09	PASS
		2480	Reference	-1.17	-1.17	---	PASS
			30~1000	-1.17	-70.36	≤-21.17	PASS
			1000~26500	-1.17	-55.36	≤-21.17	PASS
3DH5	Ant1	2402	Reference	-1.81	-1.81	---	PASS
			30~1000	-1.81	-70.34	≤-21.81	PASS
			1000~26500	-1.81	-55.13	≤-21.81	PASS
		2441	Reference	-2.04	-2.04	---	PASS
			30~1000	-2.04	-70.26	≤-22.04	PASS
			1000~26500	-2.04	-56.15	≤-22.04	PASS
		2480	Reference	-1.02	-1.02	---	PASS
			30~1000	-1.02	-70.97	≤-21.02	PASS
			1000~26500	-1.02	-54.64	≤-21.02	PASS

## Test Graphs

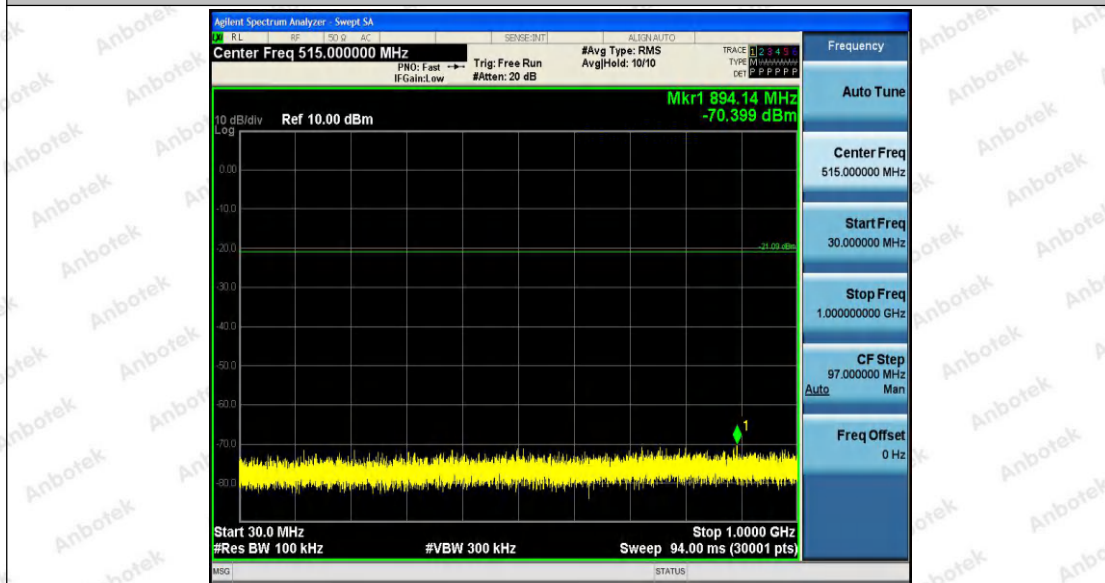




DH5\_Ant1\_2441\_0~Reference



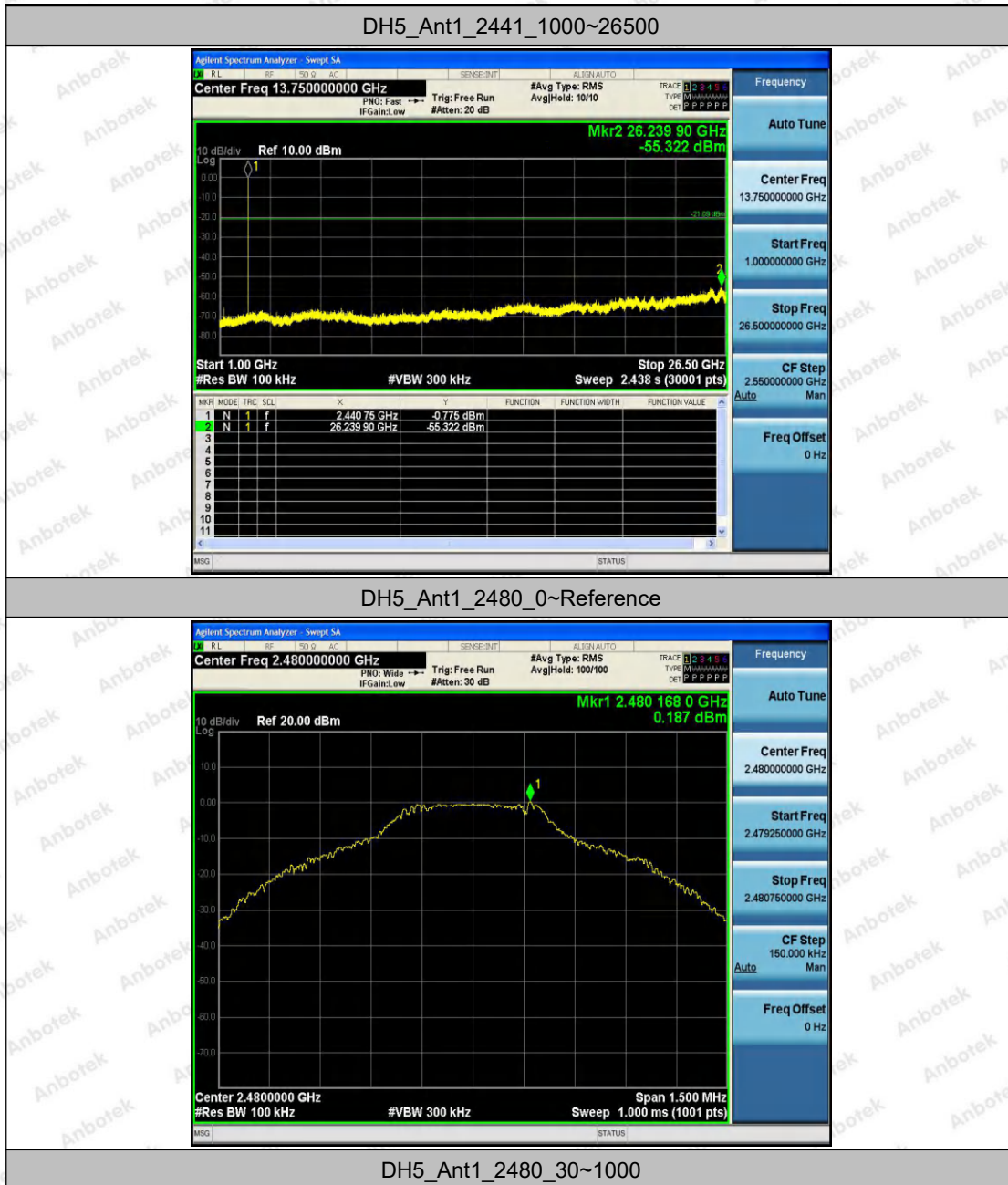
DH5\_Ant1\_2441\_30~1000



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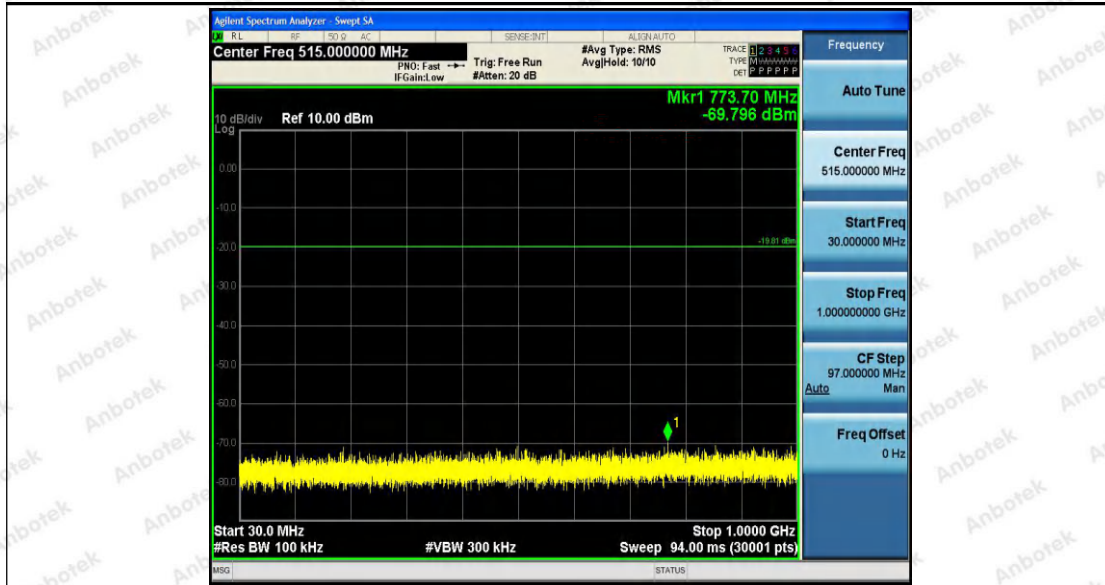
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference

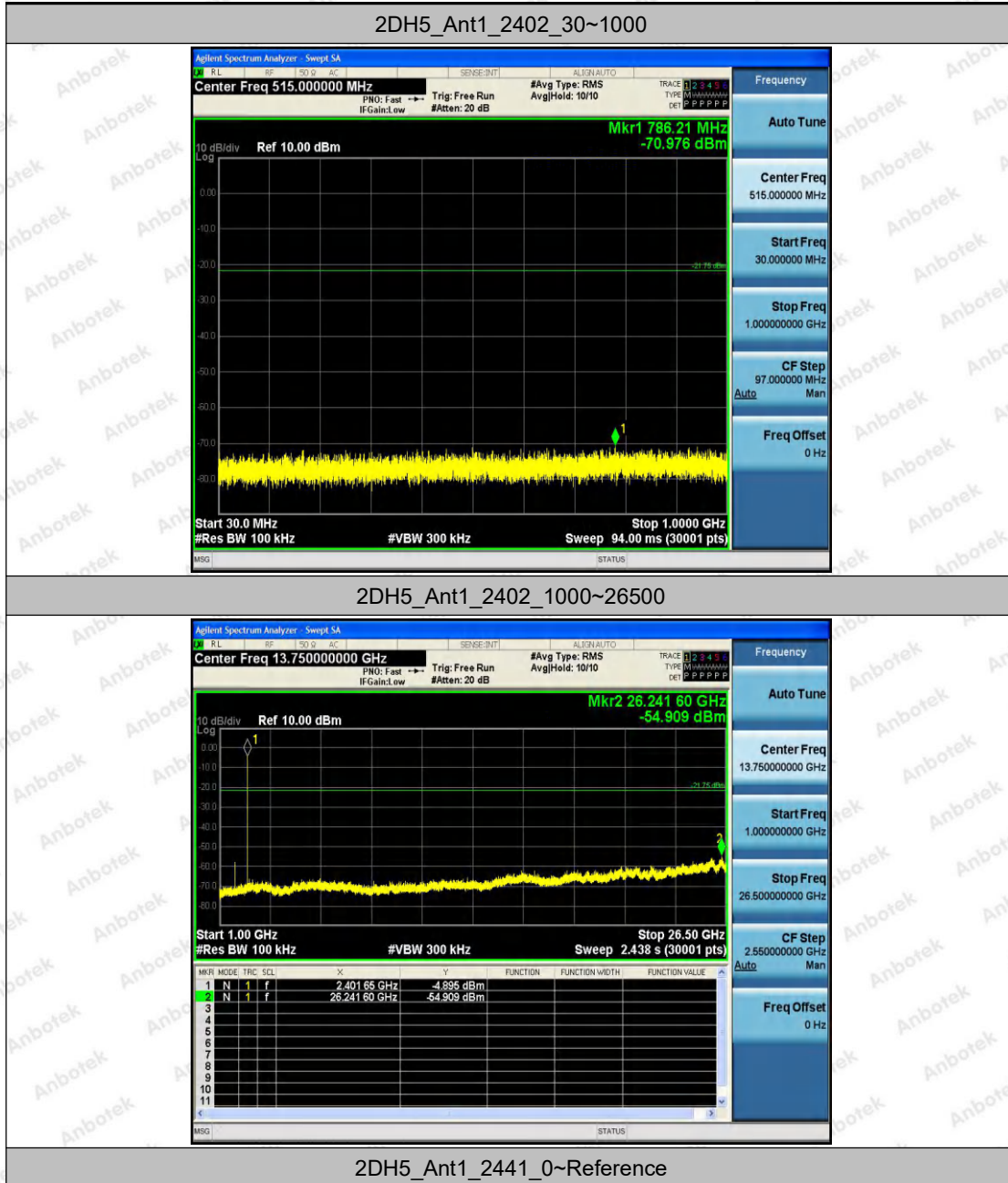


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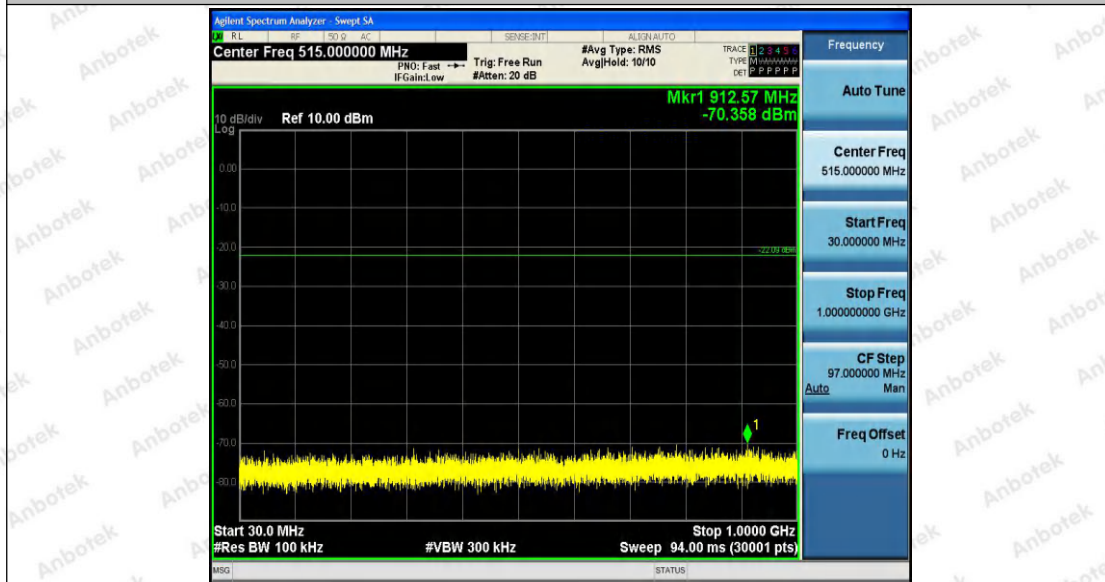
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

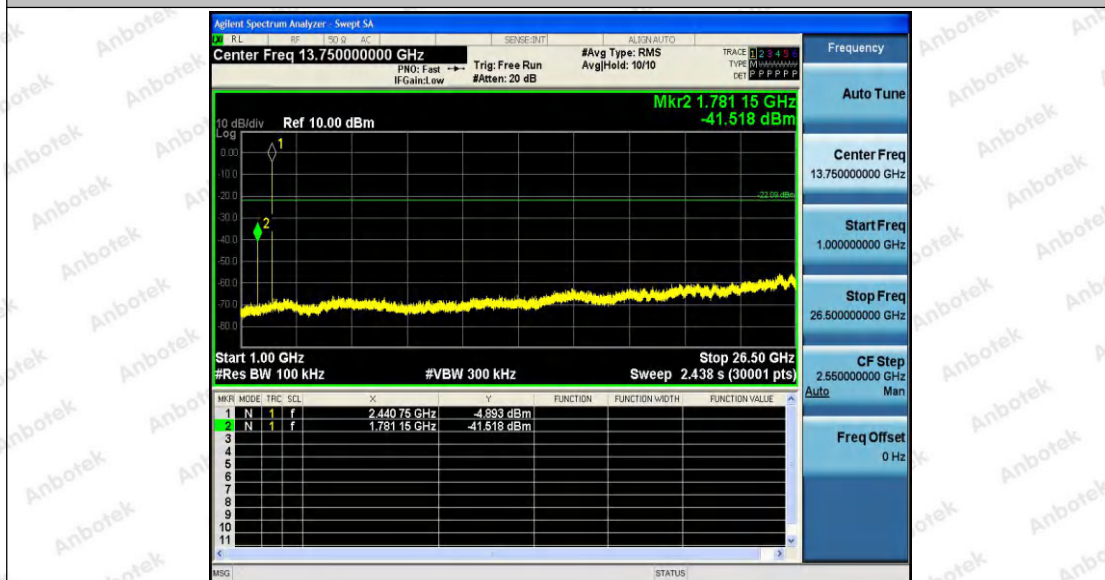
Hotline  
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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500

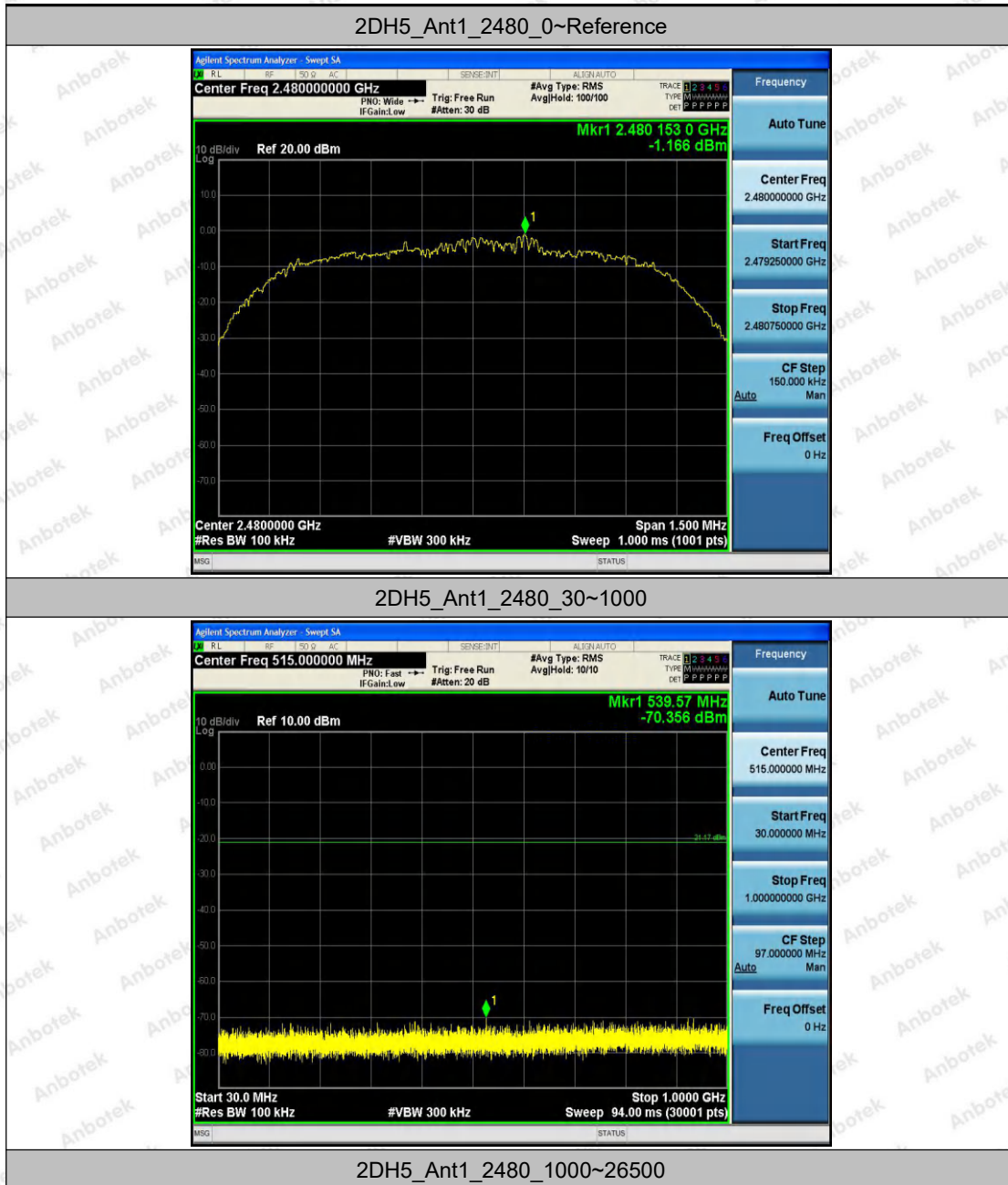


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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

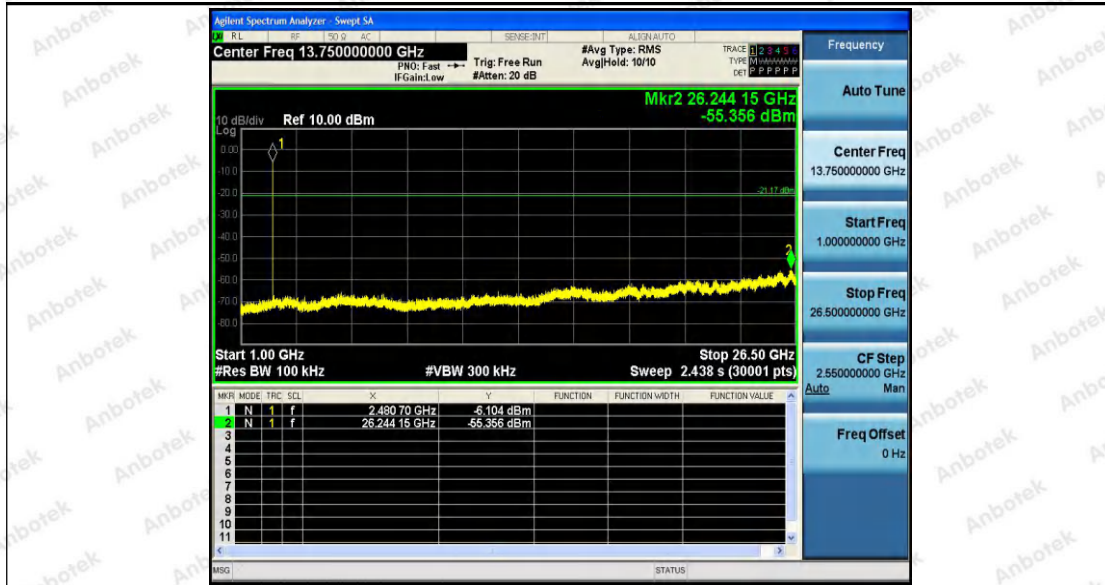
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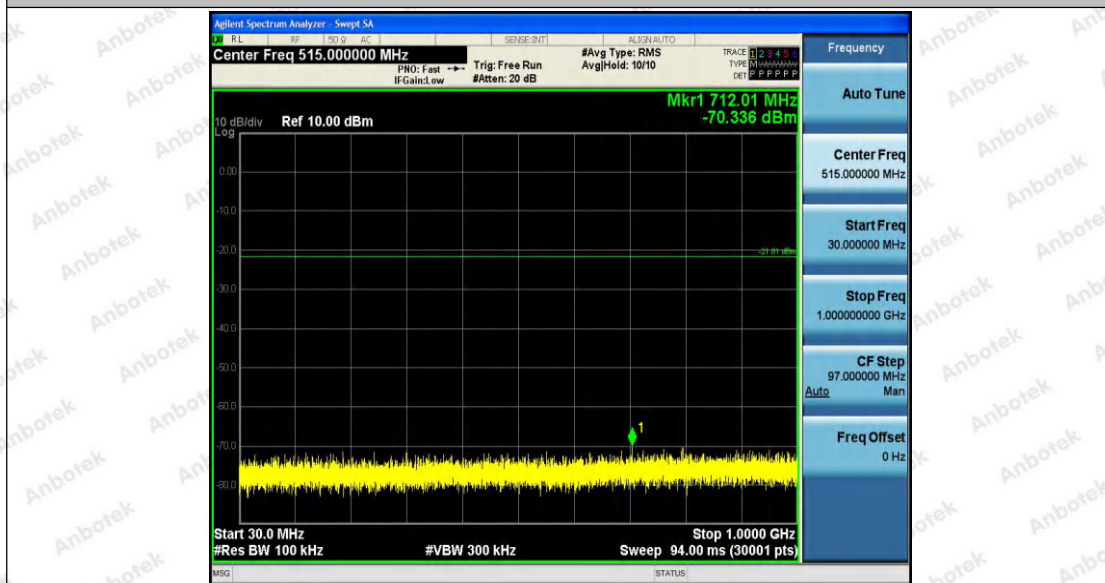
Hotline 400-003-0500  
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3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000

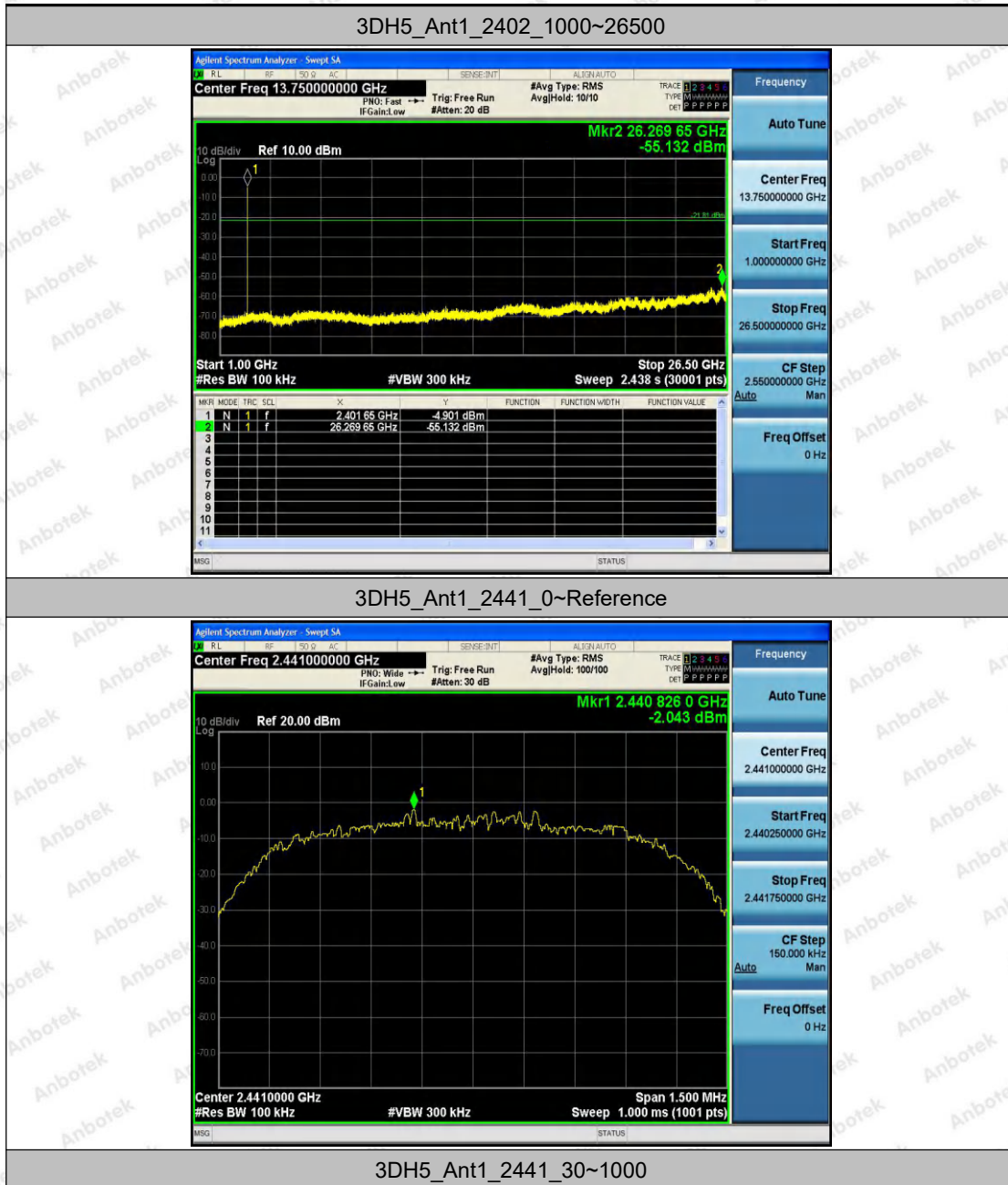


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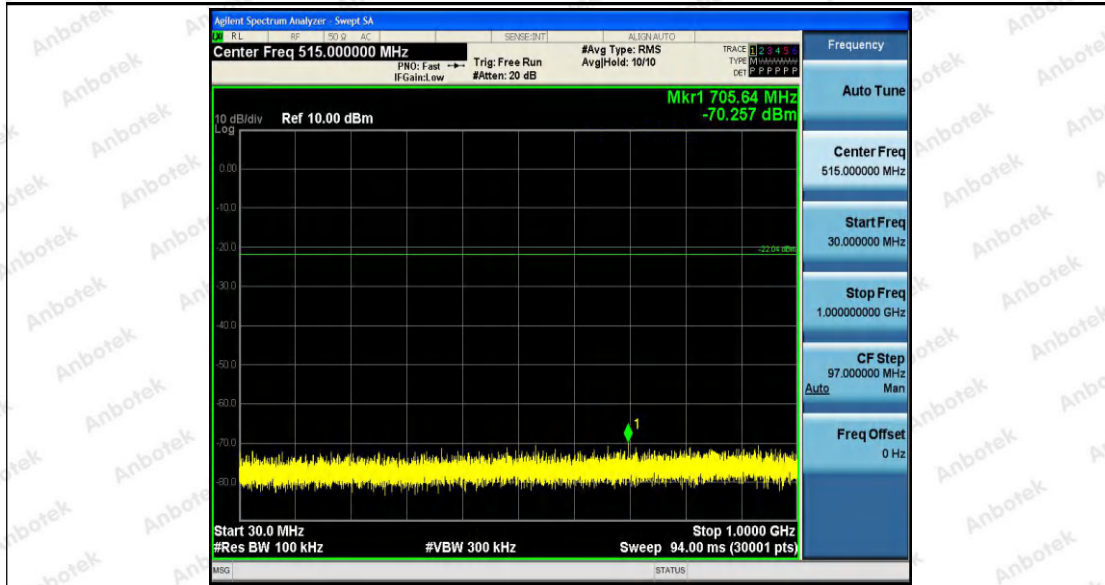
Hotline  
400-003-0500  
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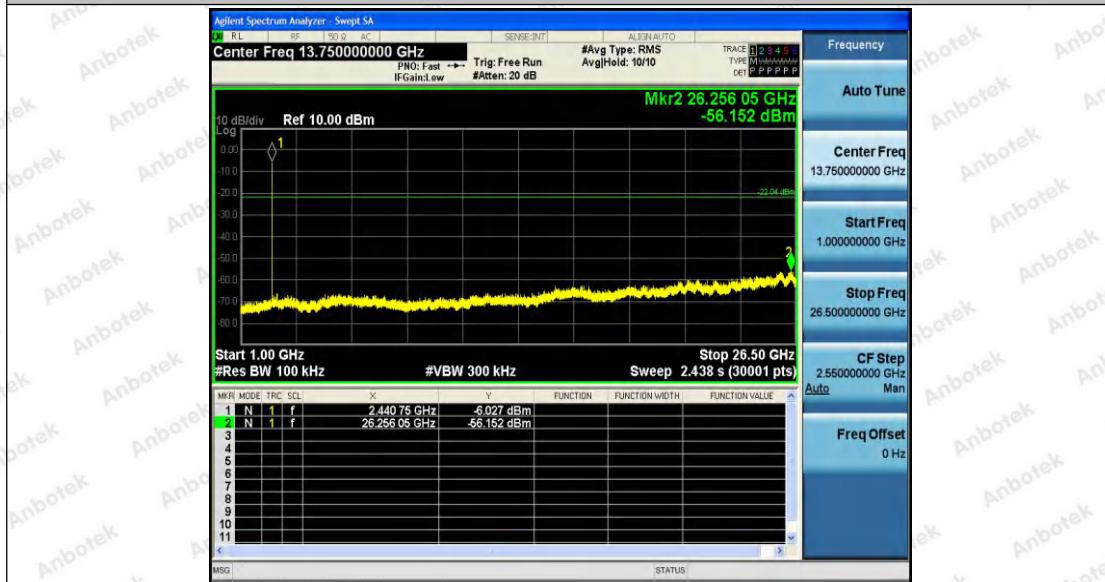
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3DH5\_Ant1\_2441\_1000~26500



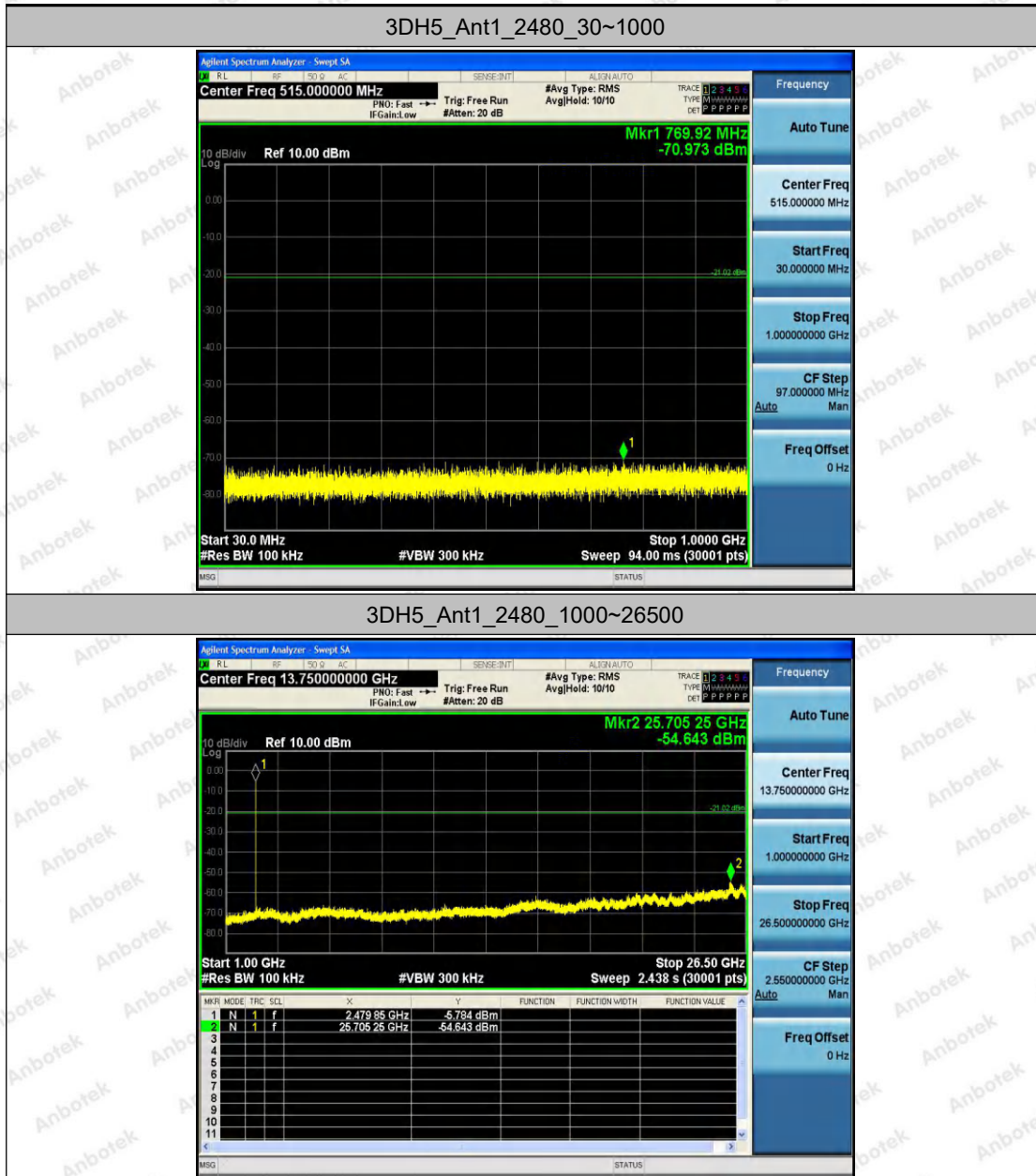
3DH5\_Ant1\_2480\_0~Reference



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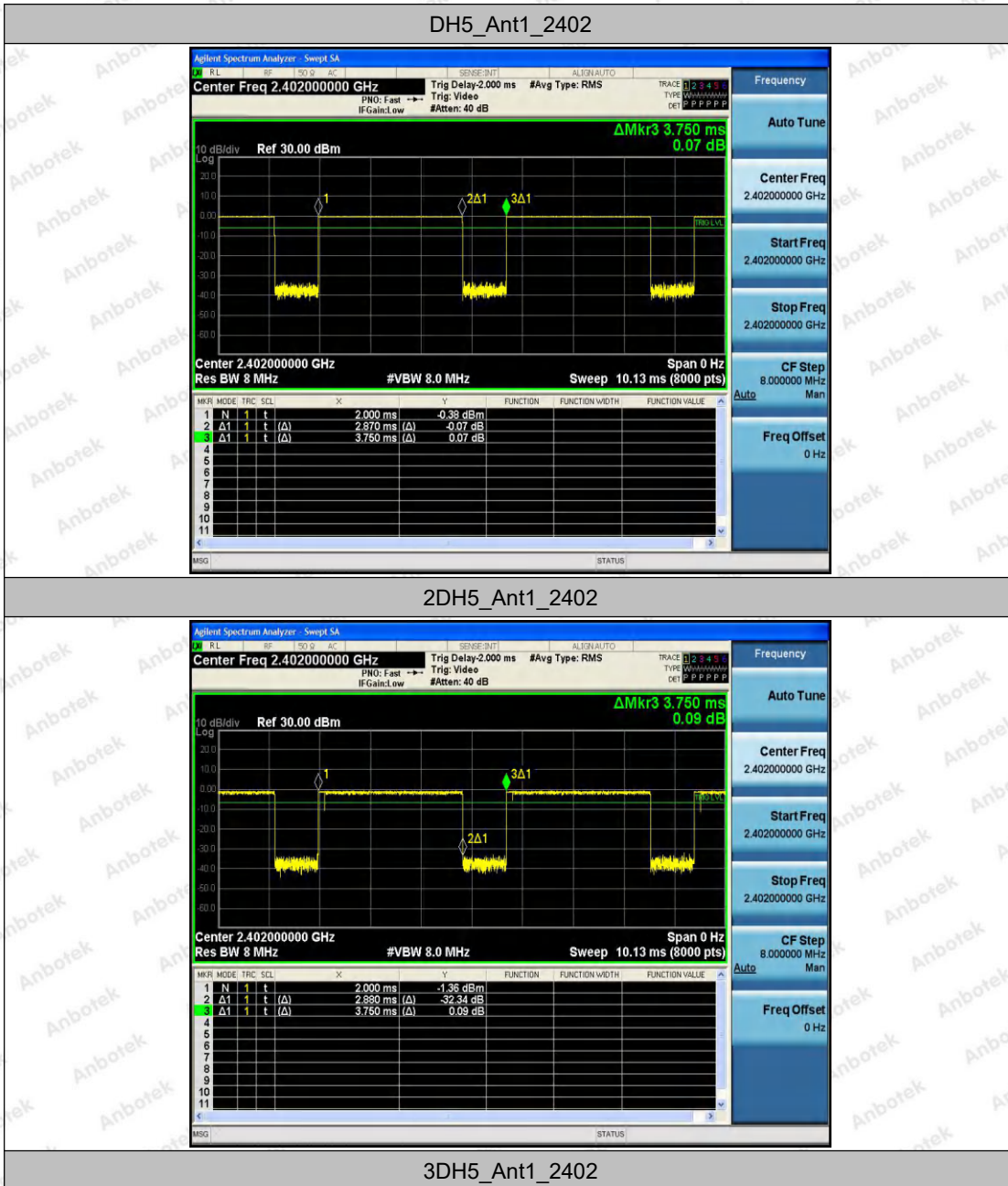
## Appendix I: Duty Cycle

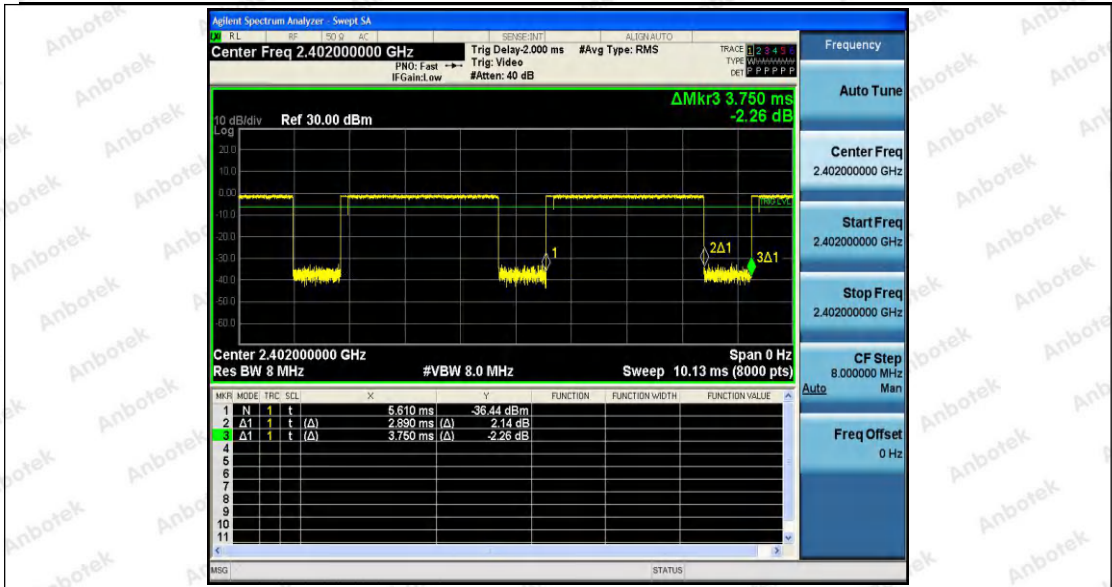
### Test Result

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---