

## Appendix Test Data

Report No.:	18220WC20098001	Test Sample No.:	1-2-2
Start Test Date:	2022.5.7	Finish Test Date:	2022.5.16
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	23.5°C	Relative Humidity:	55.4 %
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	2401.535	2402.480	---	PASS
		2441	0.945	2440.538	2441.483	---	PASS
		2480	0.945	2479.538	2480.483	---	PASS
2DH5	Ant1	2402	1.329	2401.334	2402.663	---	PASS
		2441	1.263	2440.370	2441.633	---	PASS
		2480	1.341	2479.331	2480.672	---	PASS
3DH5	Ant1	2402	1.305	2401.346	2402.651	---	PASS
		2441	1.323	2440.334	2441.657	---	PASS
		2480	1.296	2479.349	2480.645	---	PASS

## Test Graphs







2DH5\_Ant1\_2402



2DH5\_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	0.89239	2401.55 6	2402.449	---	PASS
		2441	0.89354	2440.55 2	2441.446	---	PASS
		2480	0.88540	2479.55 4	2480.439	---	PASS
2DH5	Ant1	2402	1.1937	2401.40 3	2402.597	---	PASS
		2441	1.2028	2440.39 9	2441.602	---	PASS
		2480	1.1934	2479.40 2	2480.596	---	PASS
3DH5	Ant1	2402	1.2040	2401.39 0	2402.594	---	PASS
		2441	1.2141	2440.38 4	2441.598	---	PASS
		2480	1.2074	2479.38 9	2480.596	---	PASS



## Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



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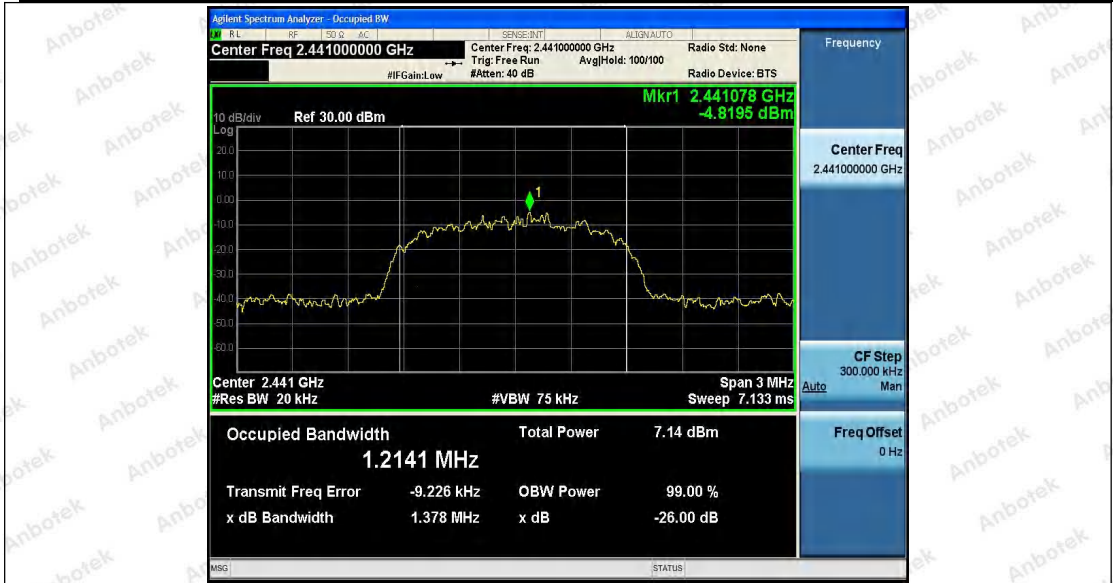




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3DH5\_Ant1\_2480



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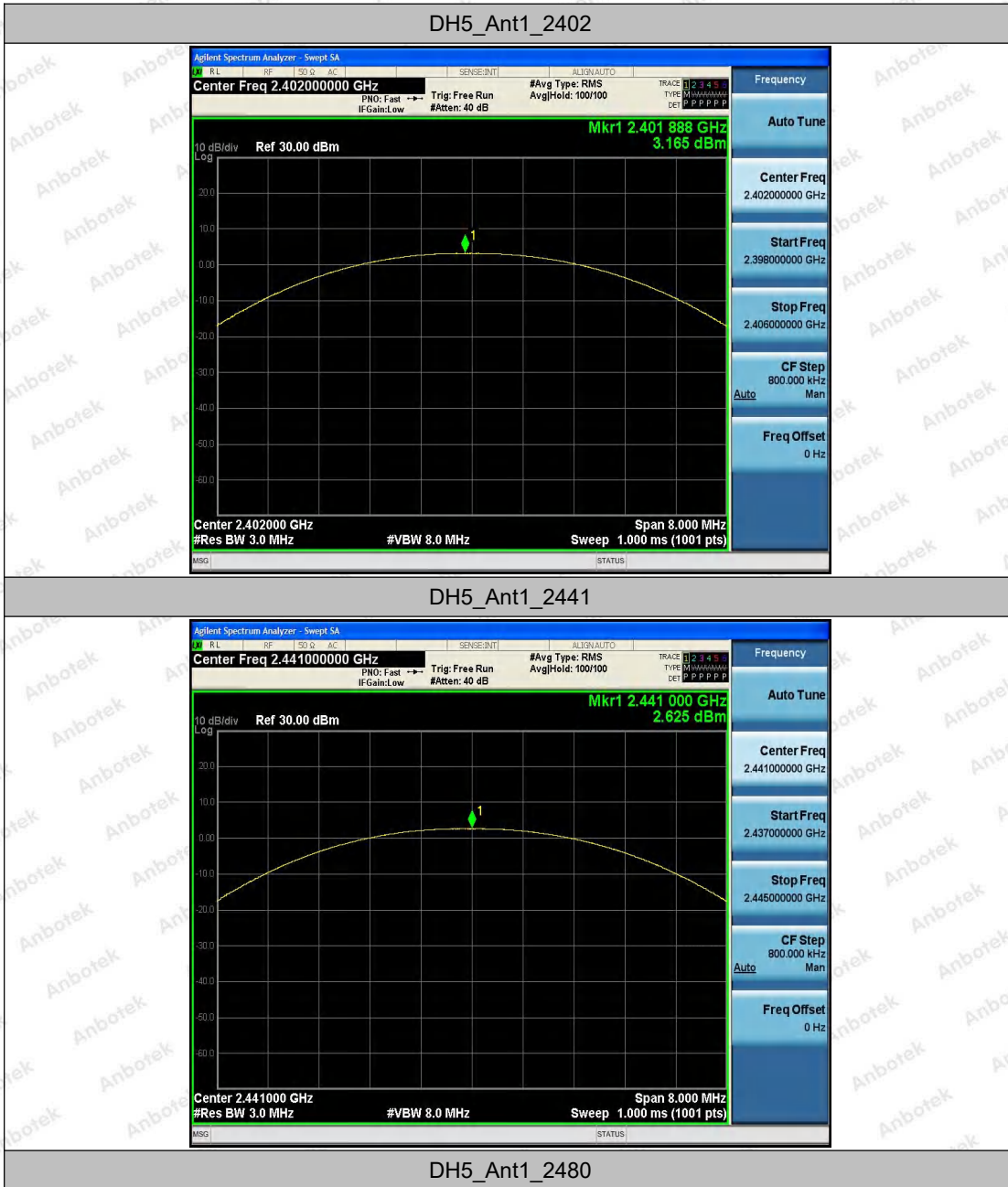


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	3.17	≤20.97	PASS
		2441	2.63	≤20.97	PASS
		2480	3.32	≤20.97	PASS
2DH5	Ant1	2402	2.54	≤20.97	PASS
		2441	2	≤20.97	PASS
		2480	2.6	≤20.97	PASS
3DH5	Ant1	2402	2.61	≤20.97	PASS
		2441	2.13	≤20.97	PASS
		2480	2.75	≤20.97	PASS

## Test Graphs



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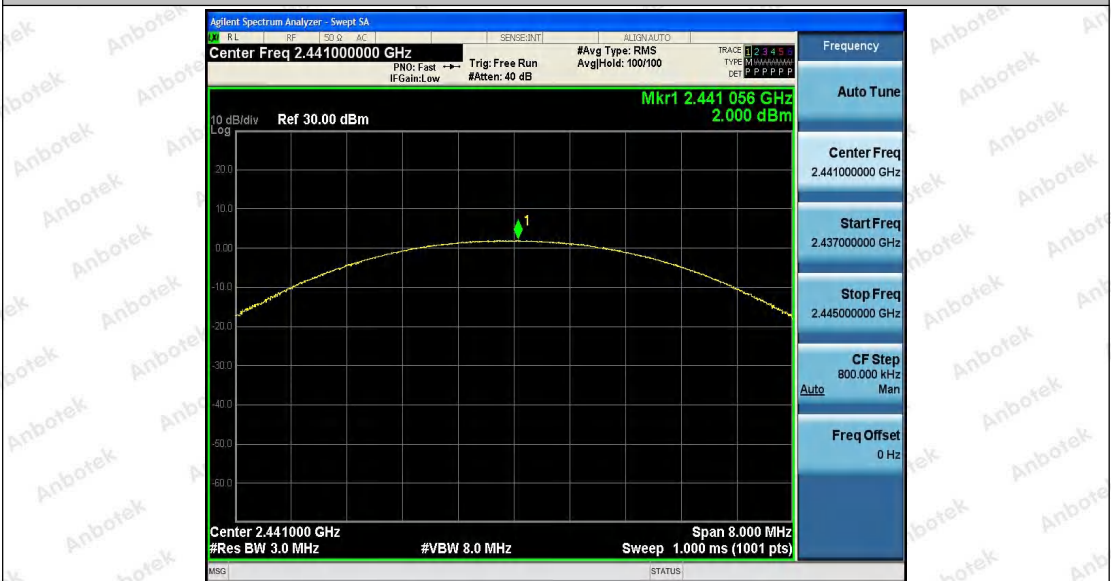




2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

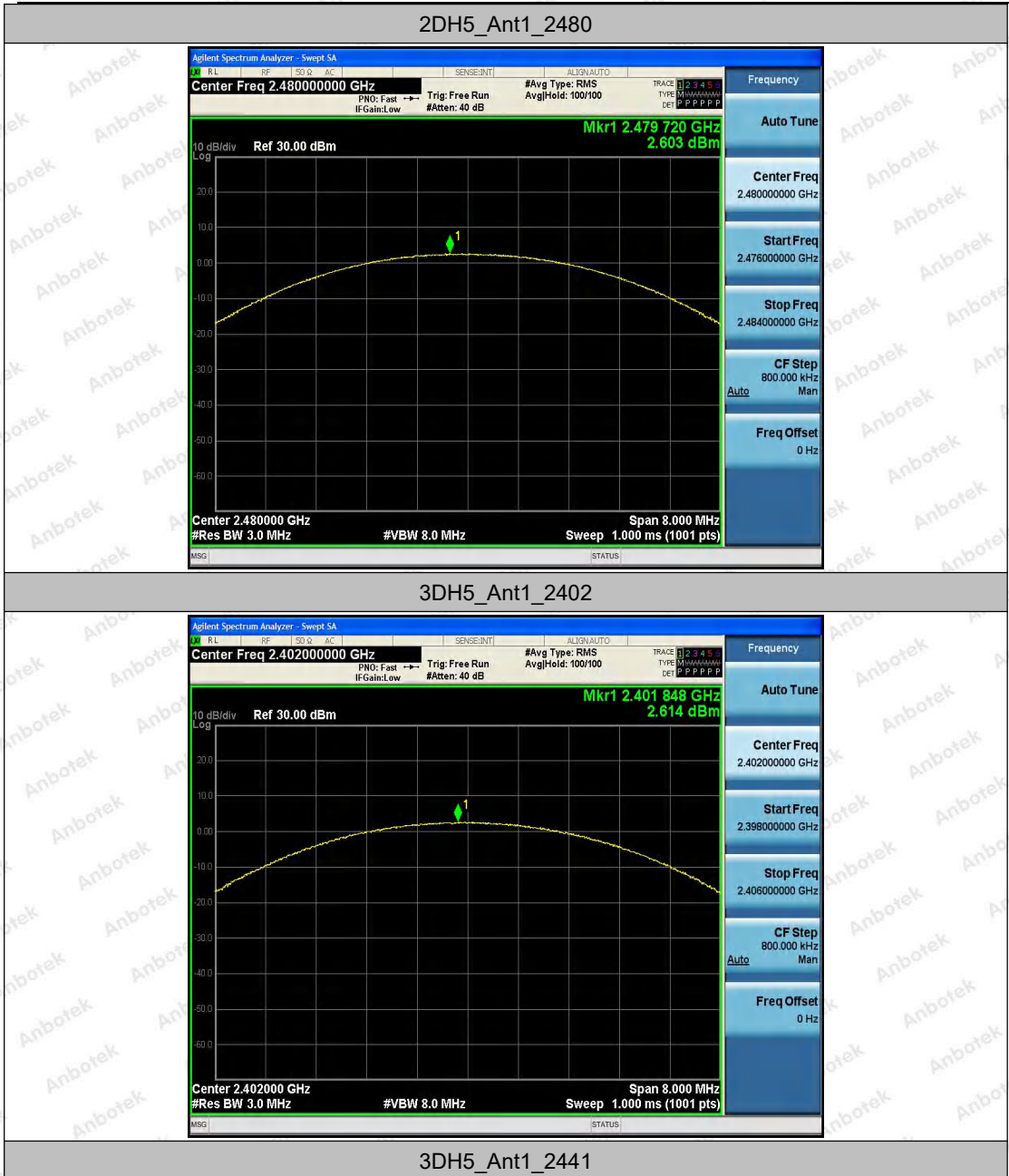


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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.98	$\geq 0.945$	PASS
2DH5	Ant1	Hop	1.22	$\geq 0.894$	PASS
3DH5	Ant1	Hop	1.128	$\geq 0.882$	PASS



## Test Graphs



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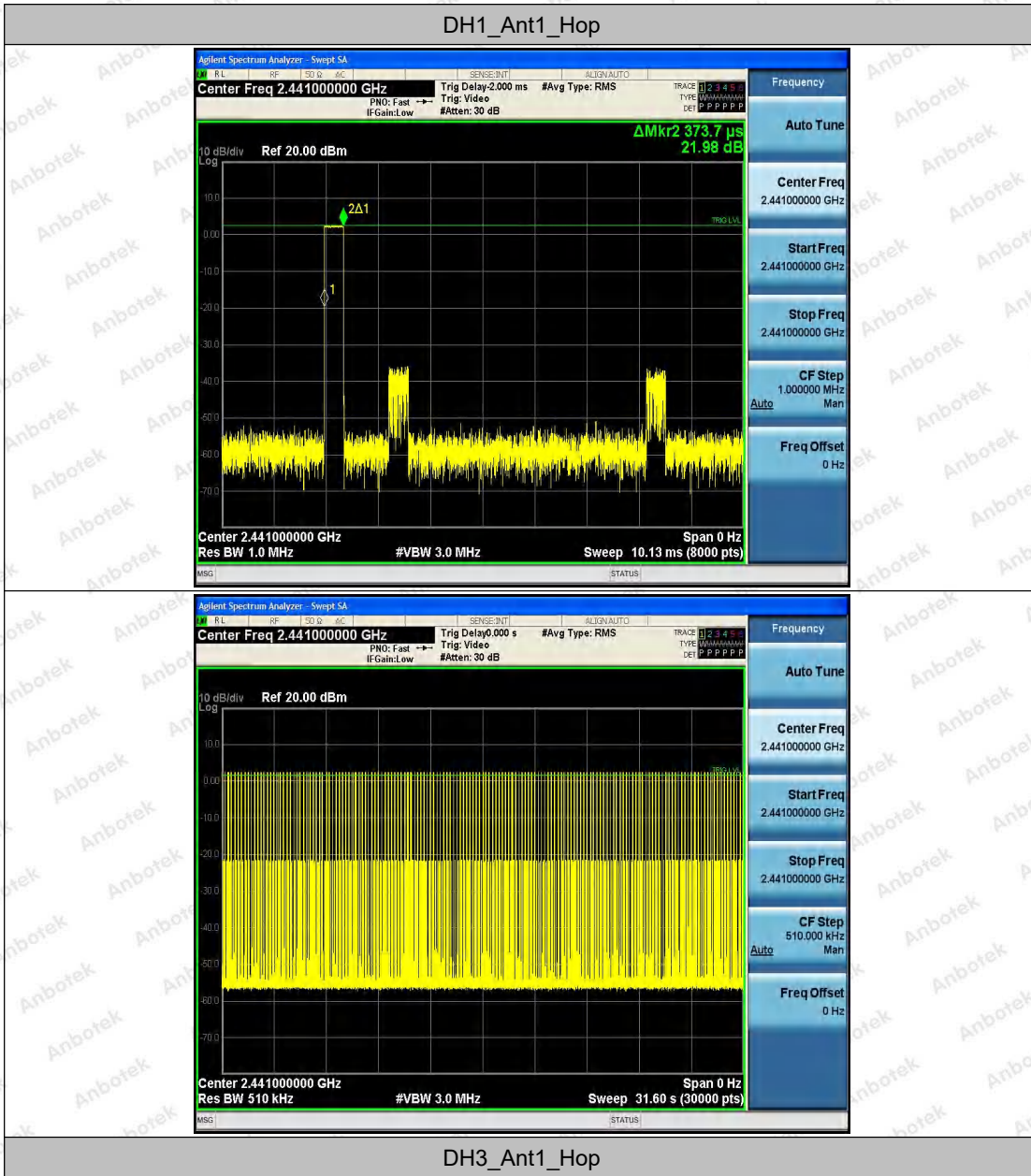


## Appendix E: Time of occupancy

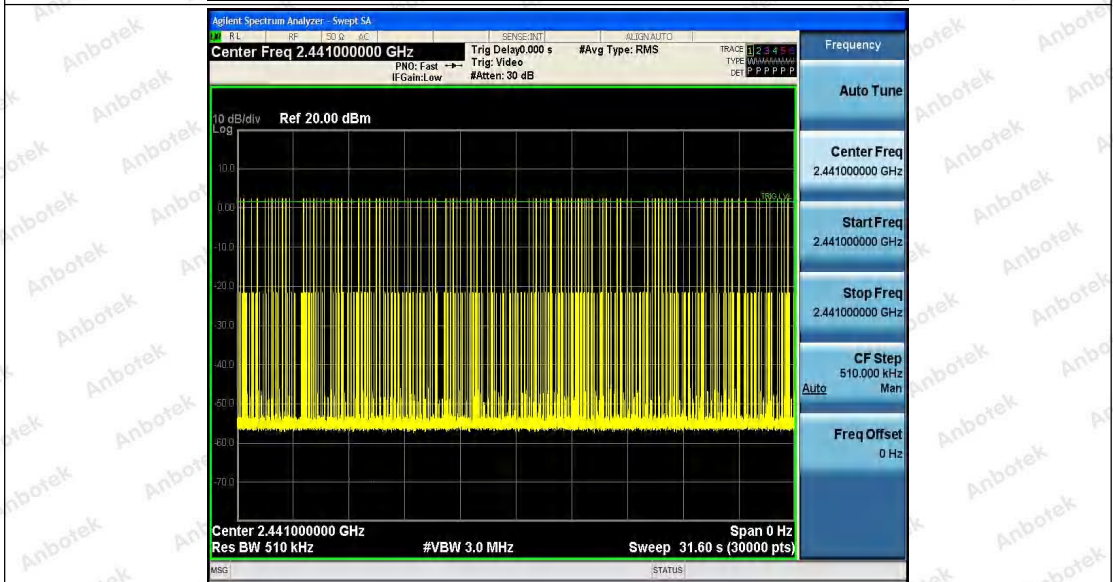
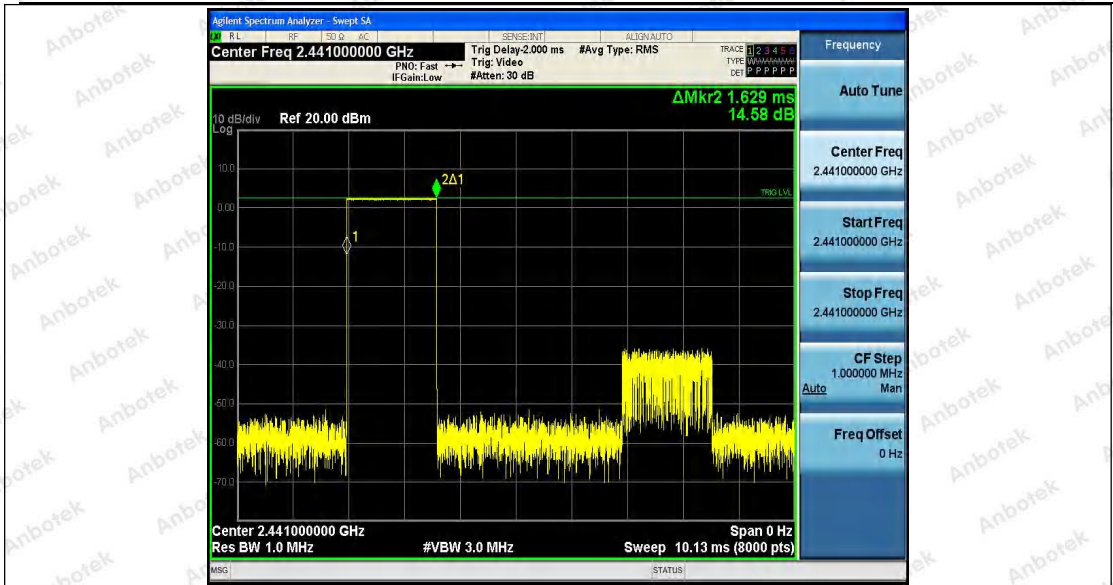
### Test Result

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	109	0.314	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	156	0.255	≤0.4	PASS
2DH5	Ant1	Hop	2.88	105	0.302	≤0.4	PASS
3DH1	Ant1	Hop	0.38	314	0.12	≤0.4	PASS
3DH3	Ant1	Hop	1.63	158	0.258	≤0.4	PASS
3DH5	Ant1	Hop	2.88	98	0.283	≤0.4	PASS

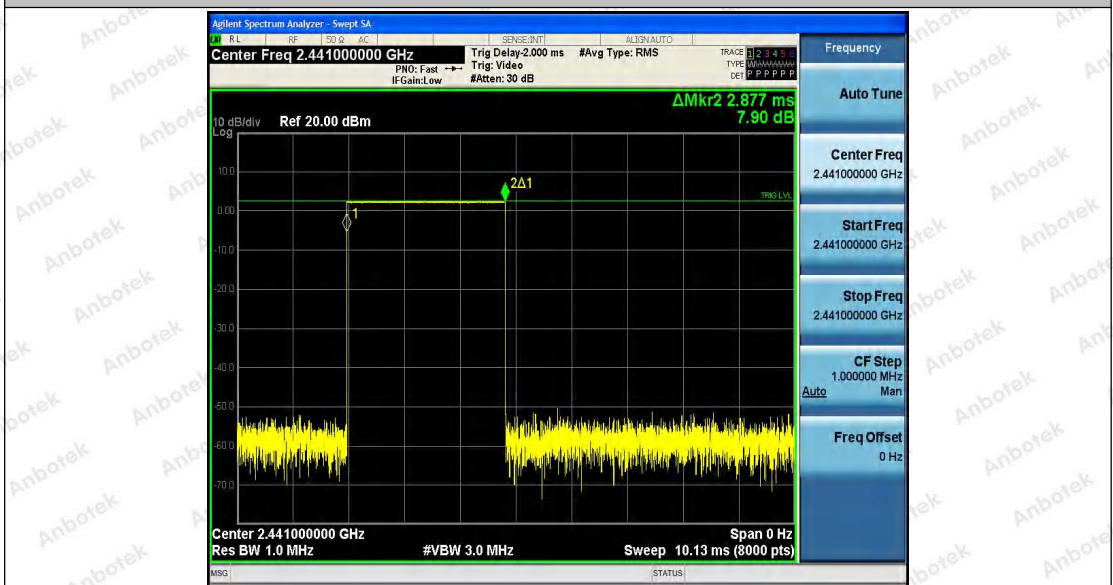
## Test Graphs







DH5\_Ant1\_Hop

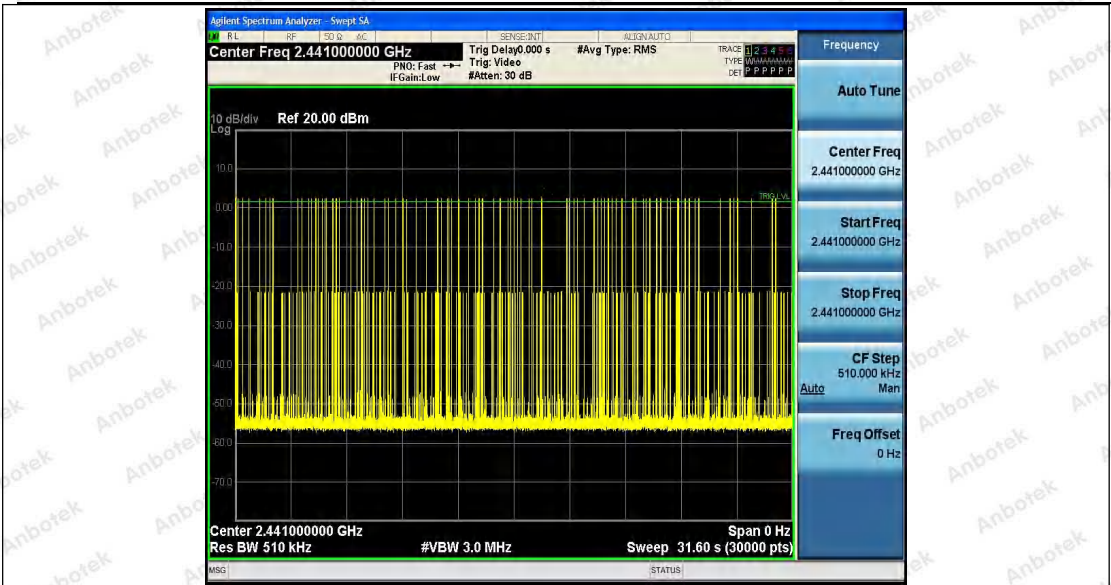


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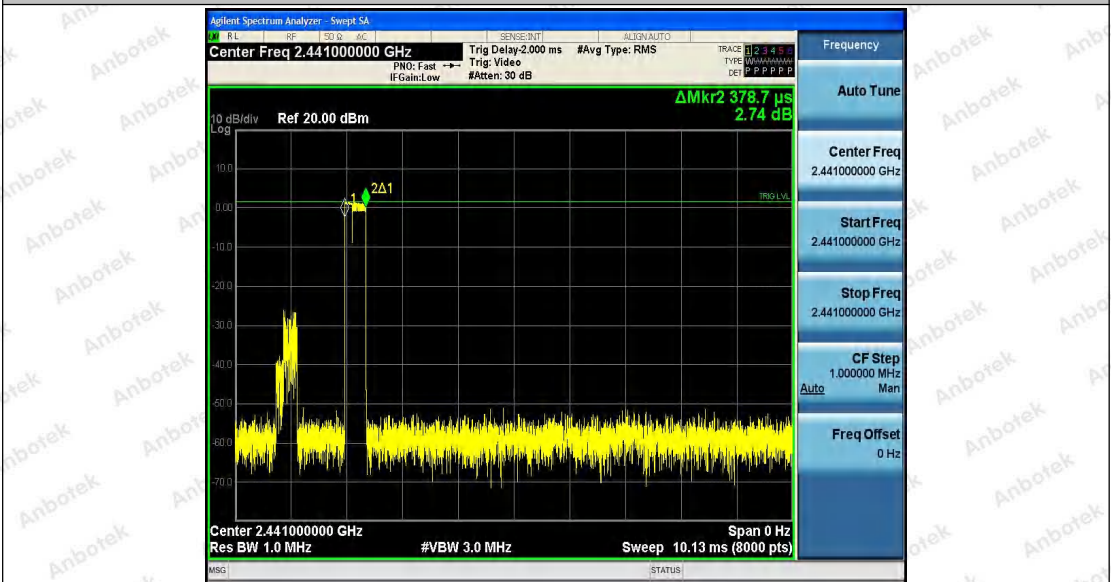
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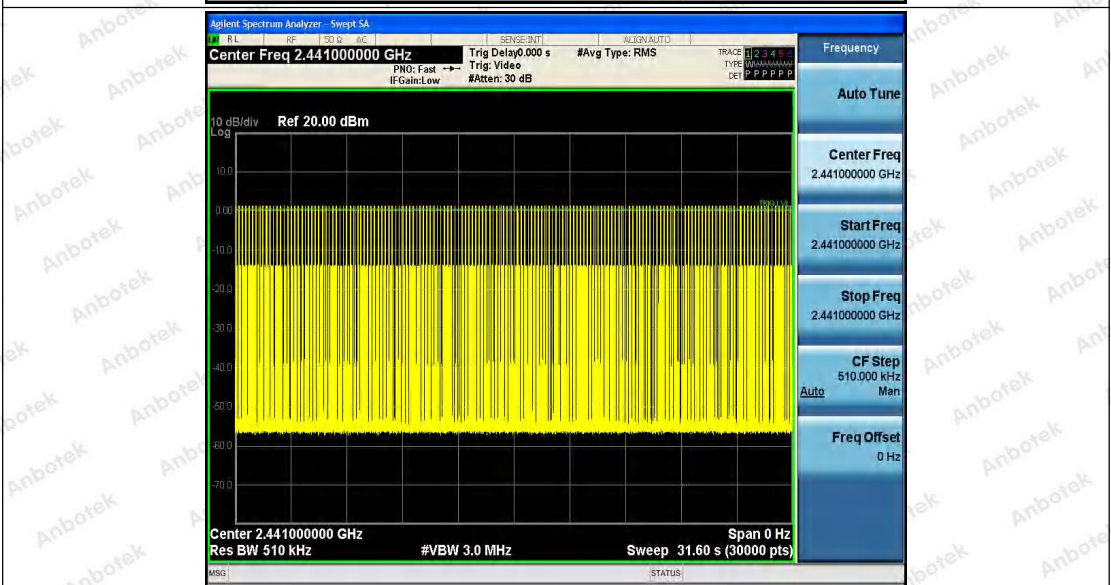
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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

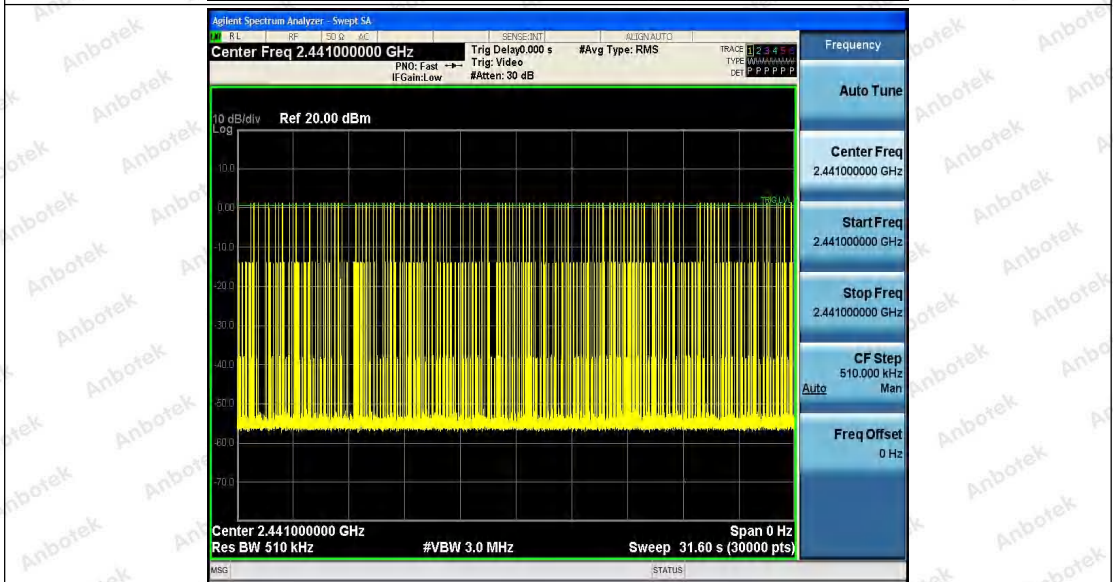
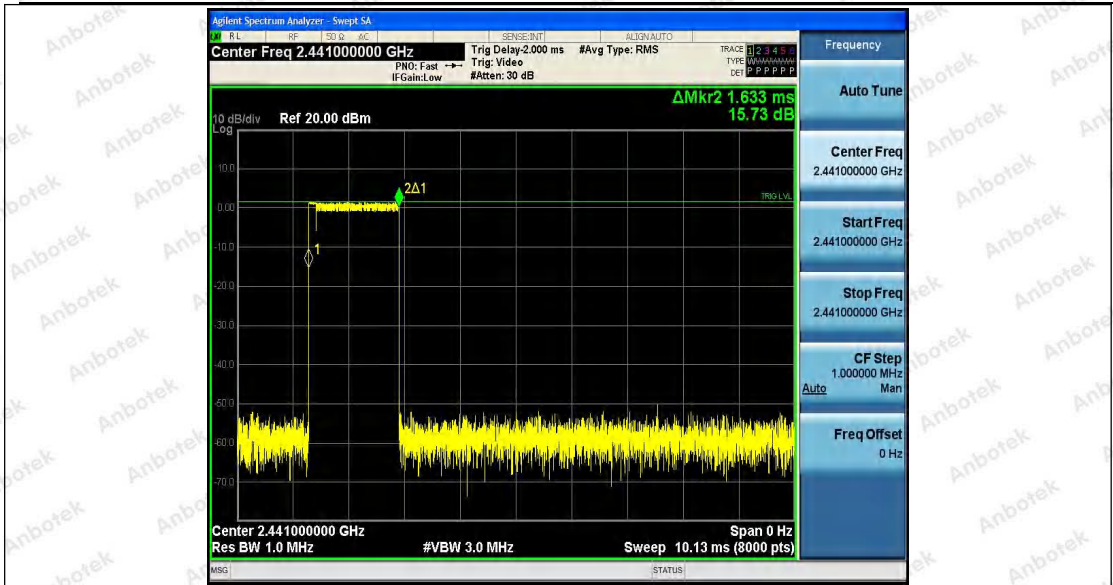


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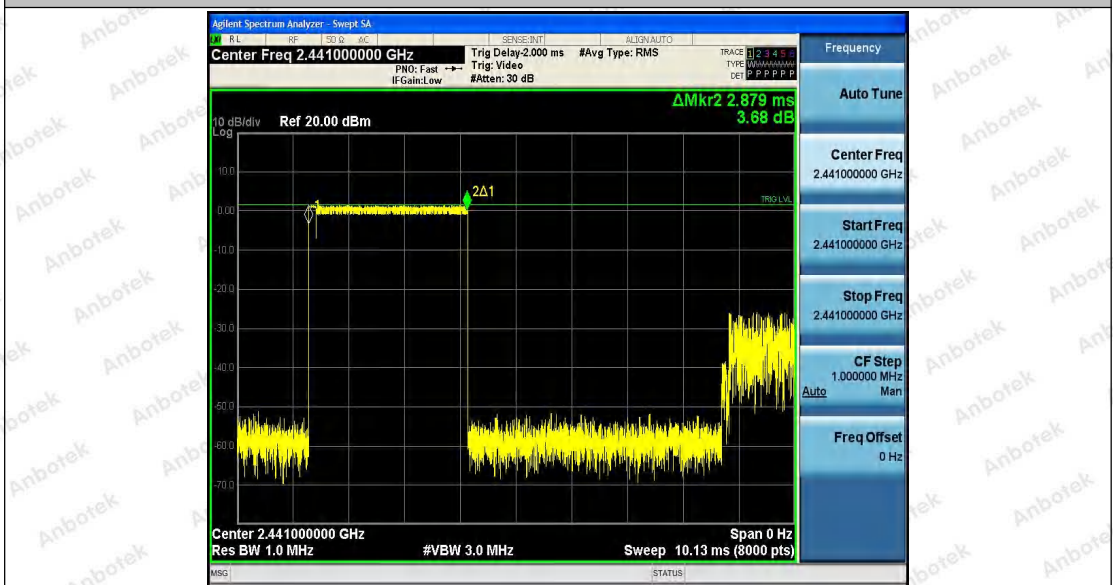
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2DH5\_Ant1\_Hop

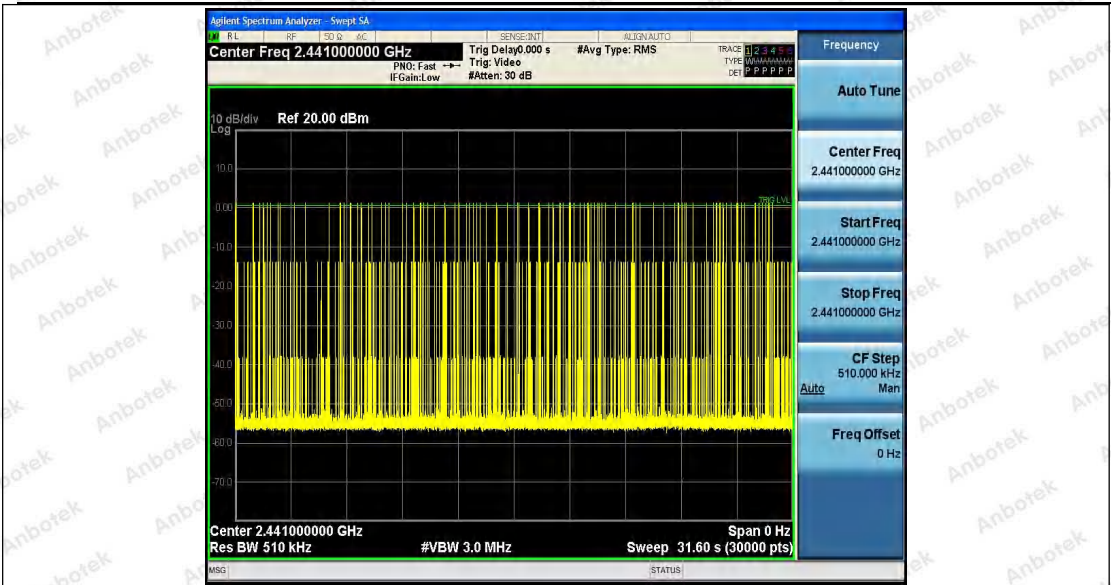


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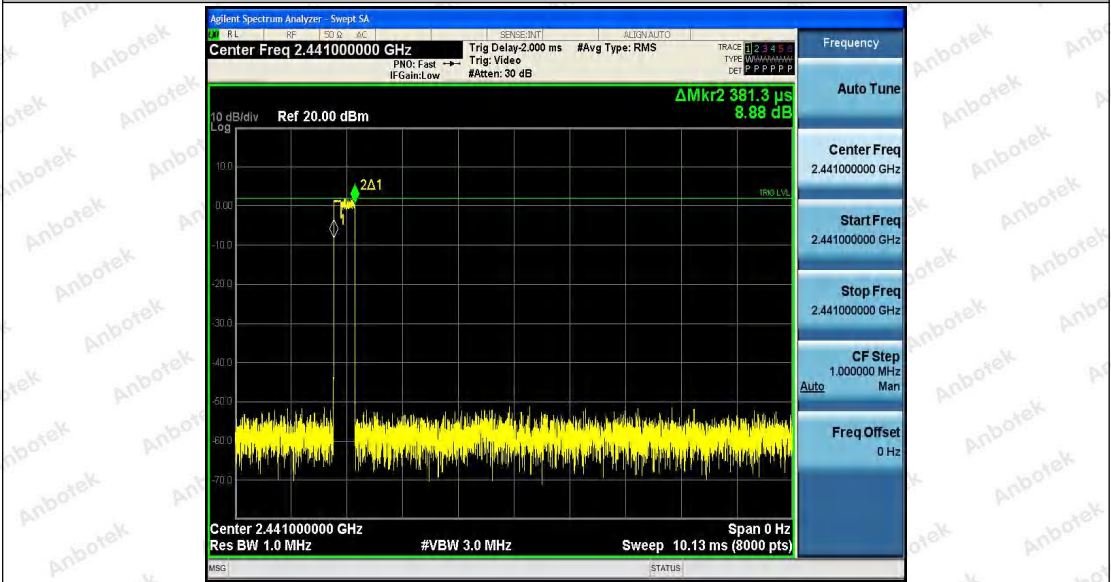
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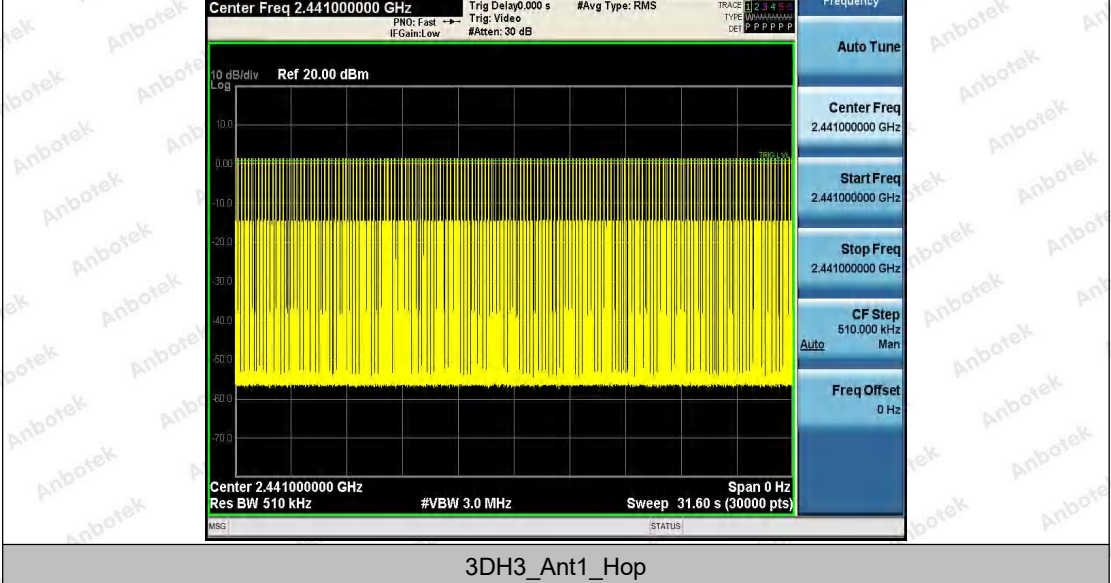
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3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop



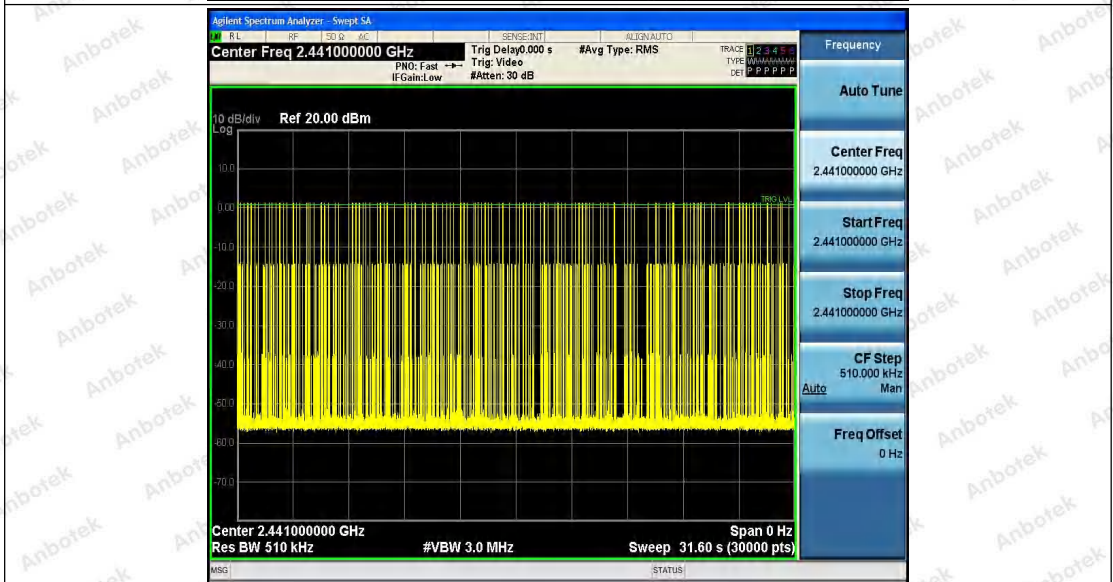
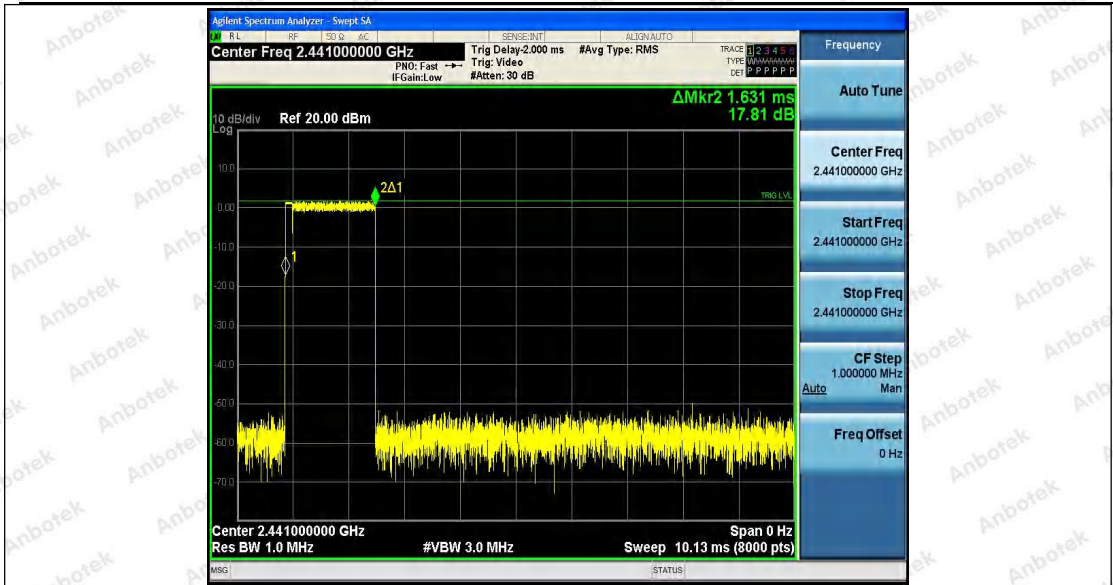
3DH3\_Ant1\_Hop

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### 3DH5\_Ant1\_Hop

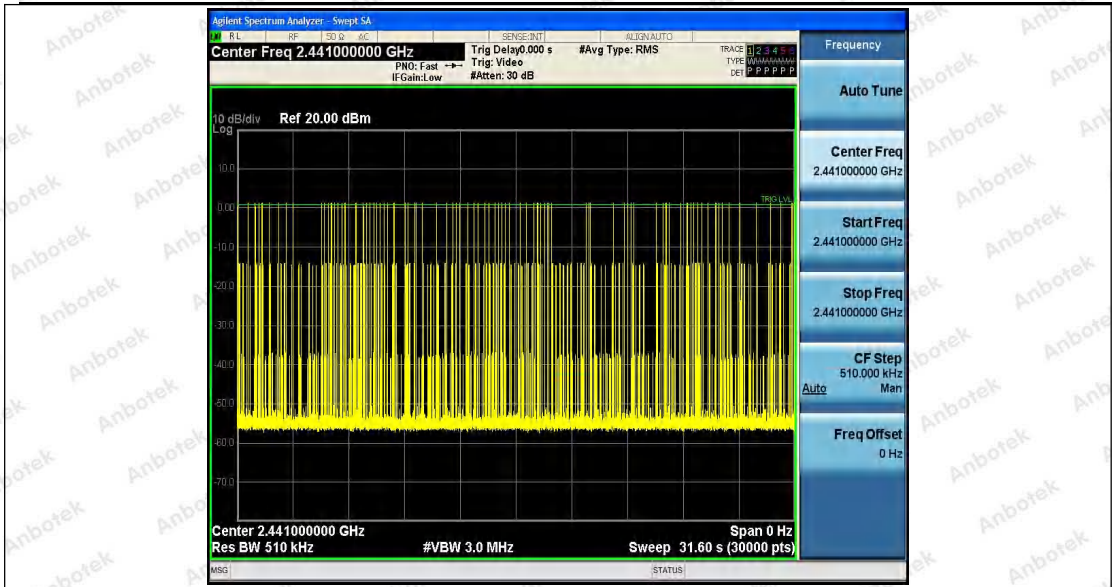


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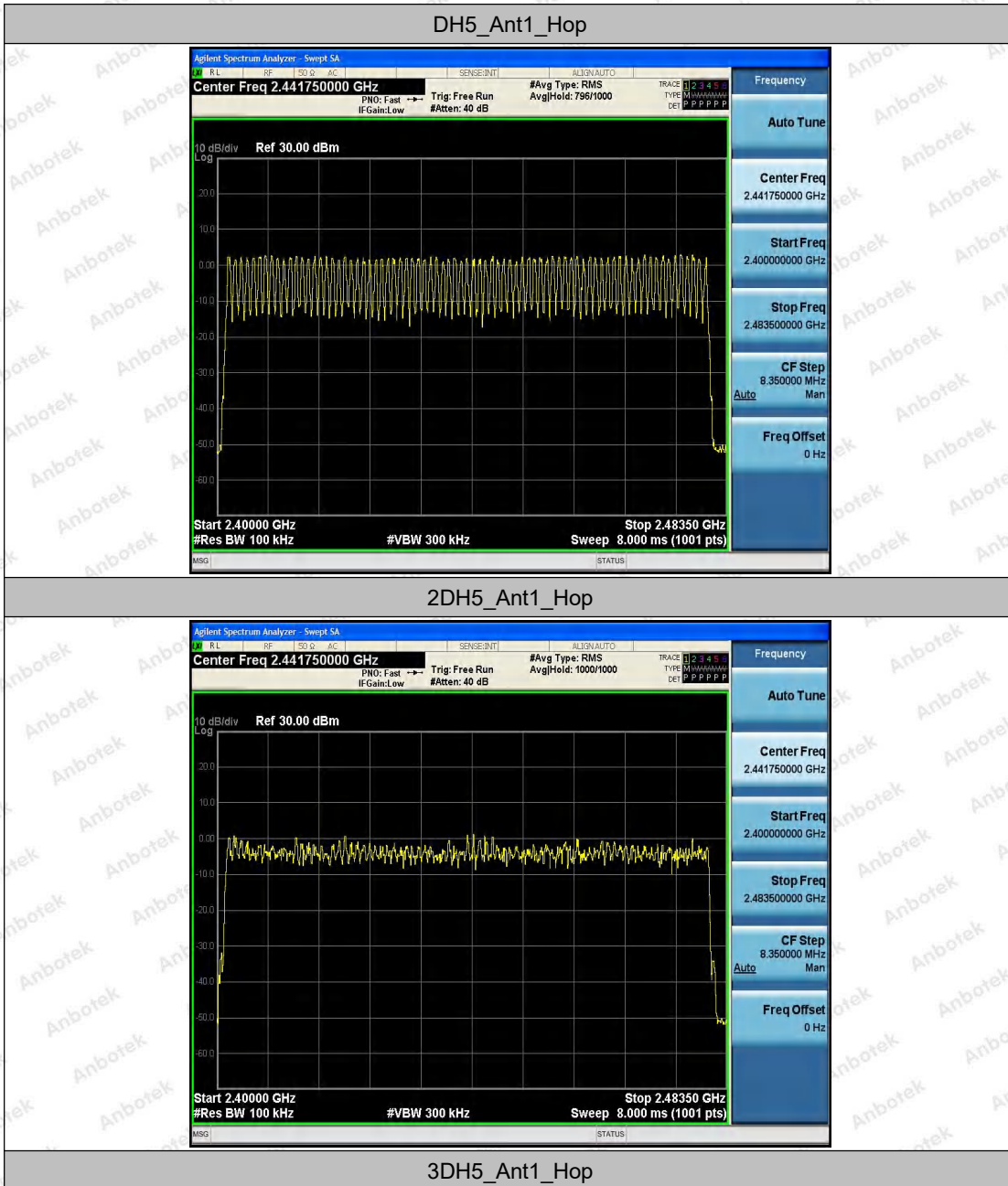


## Appendix F: Number of hopping channels

### 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



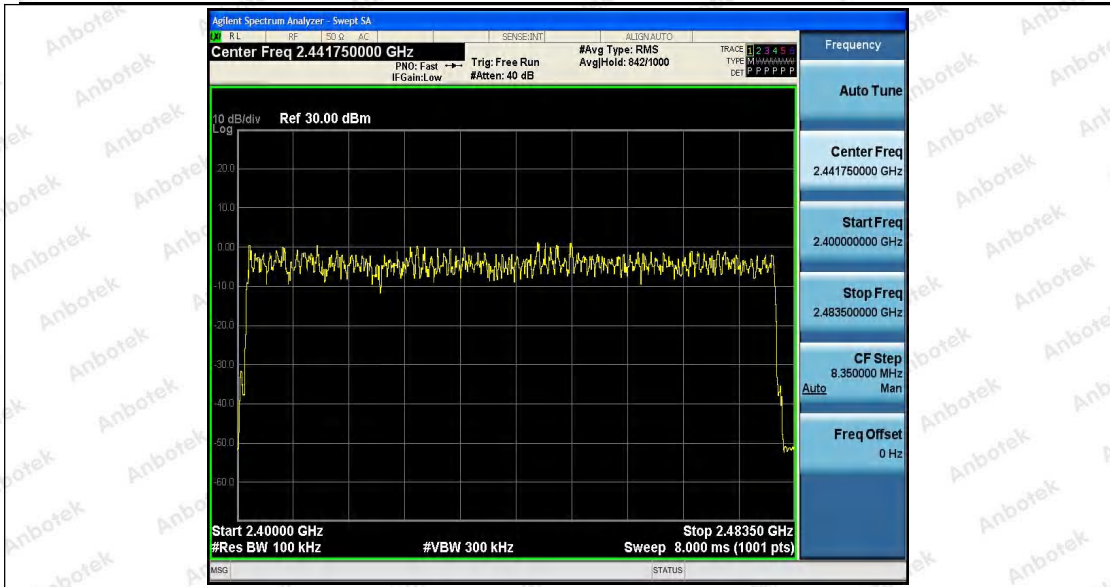
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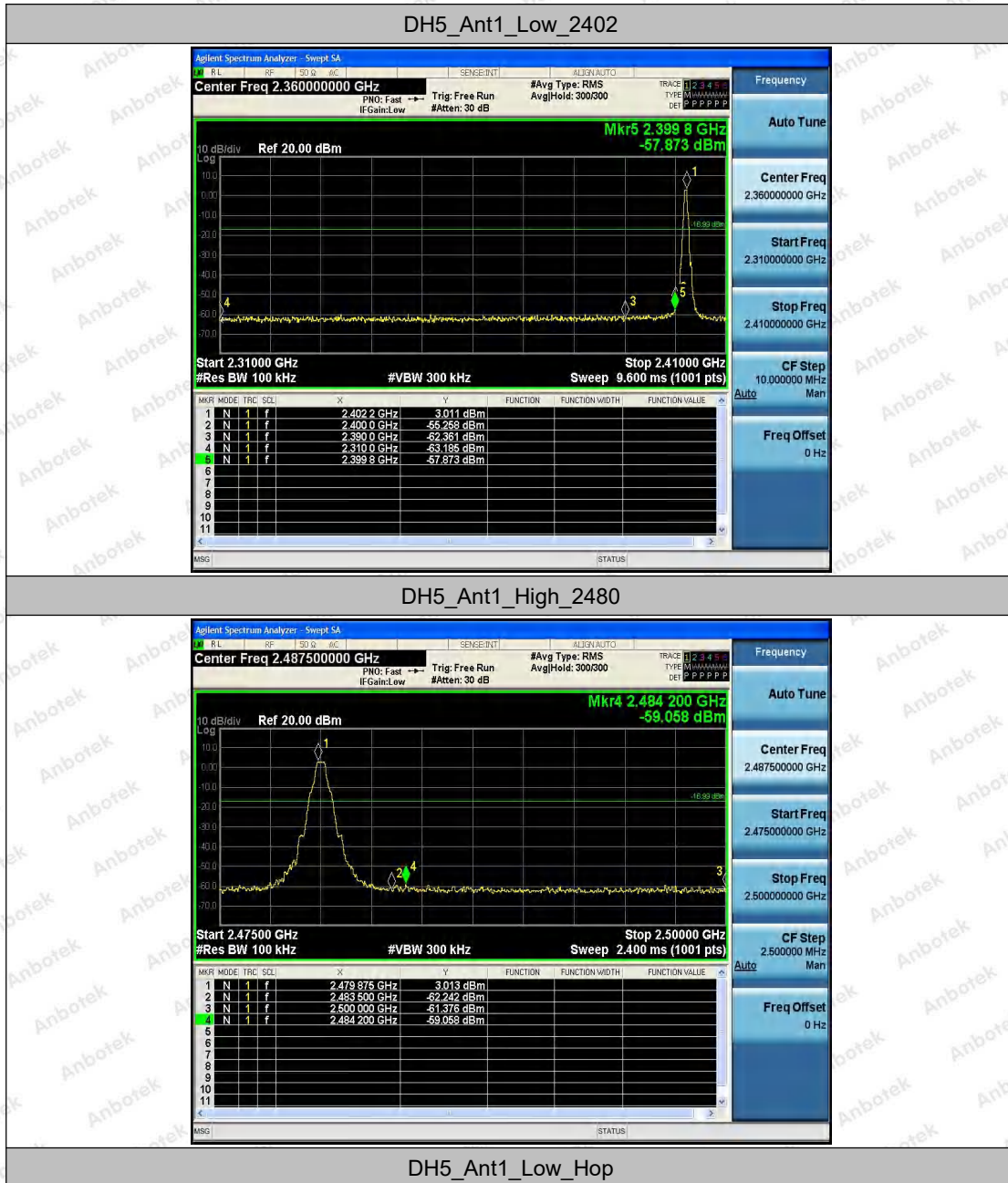
## Appendix G: Band edge measurements

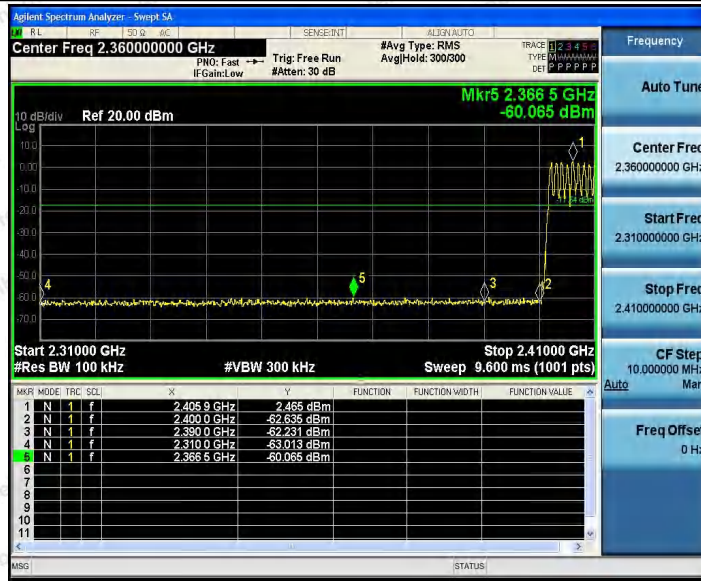
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.01	-57.87	≤-16.99	PASS
		High	2480	3.01	-59.06	≤-16.99	PASS
		Low	Hop	2.47	-60.07	≤-17.54	PASS
		High	Hop	2.85	-61.45	≤-17.15	PASS
2DH5	Ant1	Low	2402	1.53	-55.02	≤-18.47	PASS
		High	2480	1.74	-59.25	≤-18.26	PASS
		Low	Hop	1.06	-59.11	≤-18.94	PASS
		High	Hop	-2.11	-62.84	≤-22.11	PASS
3DH5	Ant1	Low	2402	0.79	-54.76	≤-19.21	PASS
		High	2480	1.84	-58.93	≤-18.16	PASS
		Low	Hop	1.04	-59.07	≤-18.96	PASS
		High	Hop	1.87	-60.43	≤-18.13	PASS

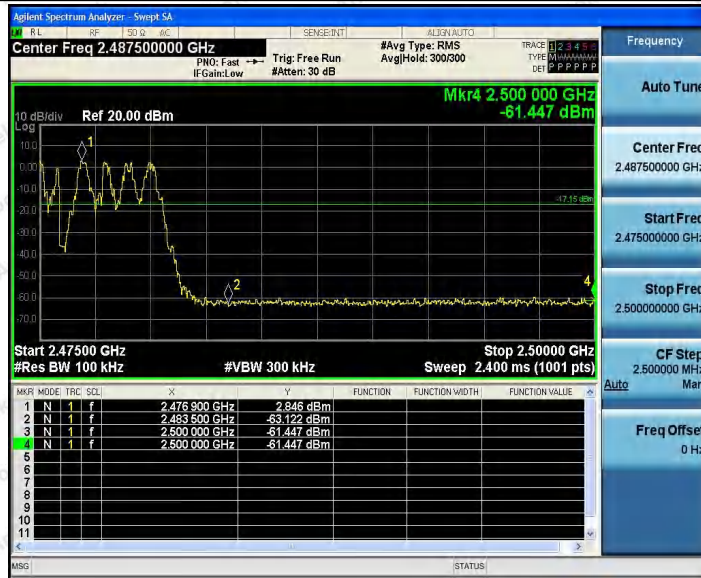


## Test Graphs

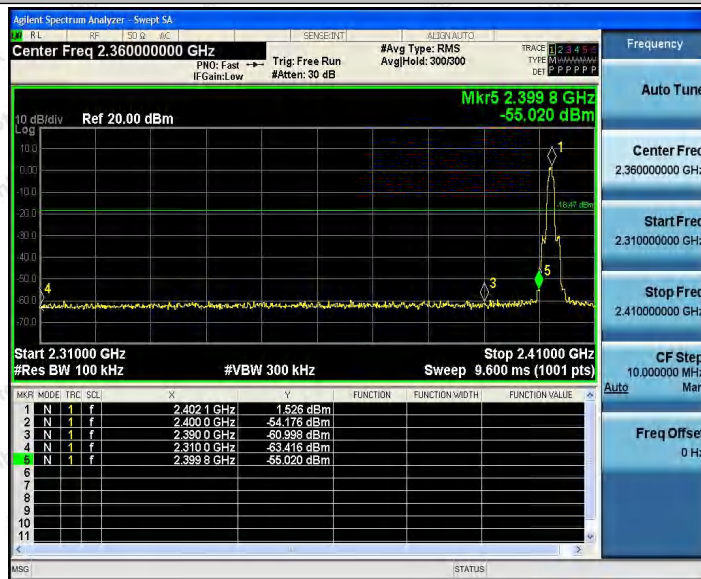

**DH5\_Ant1\_High\_2480**
**DH5\_Ant1\_Low\_Hop**



DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



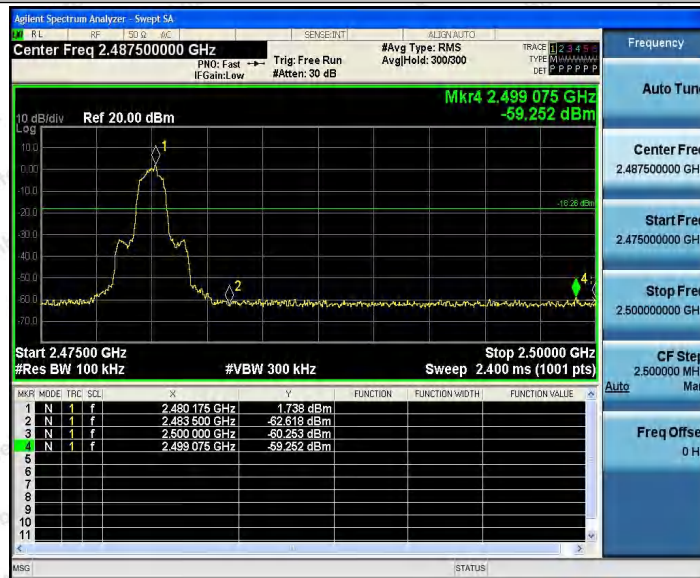
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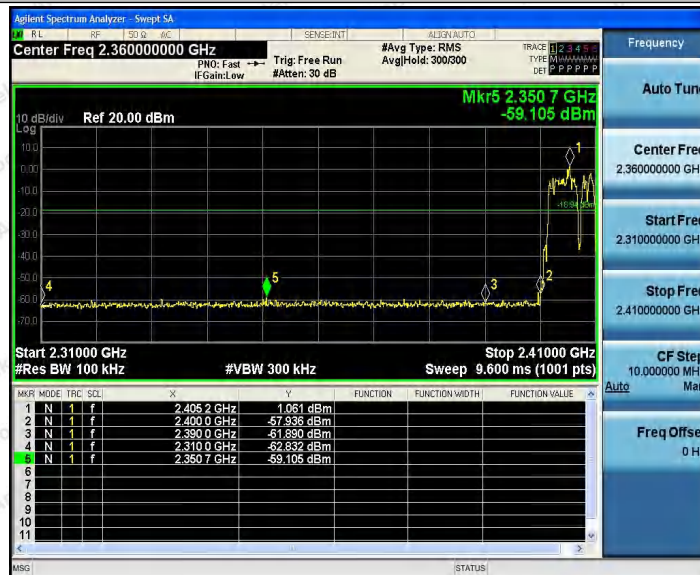
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop



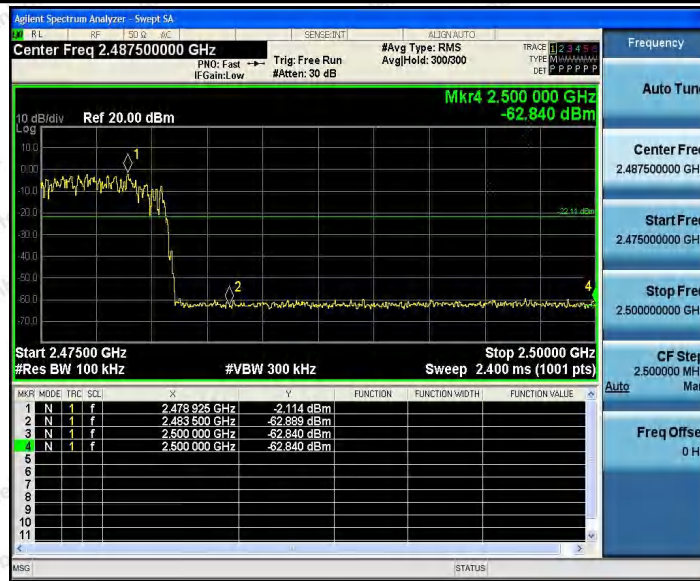
### 2DH5\_Ant1\_High\_Hop

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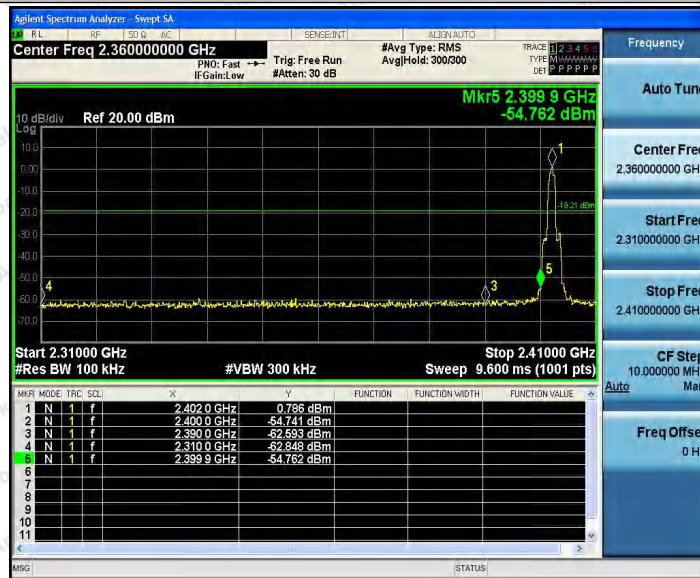
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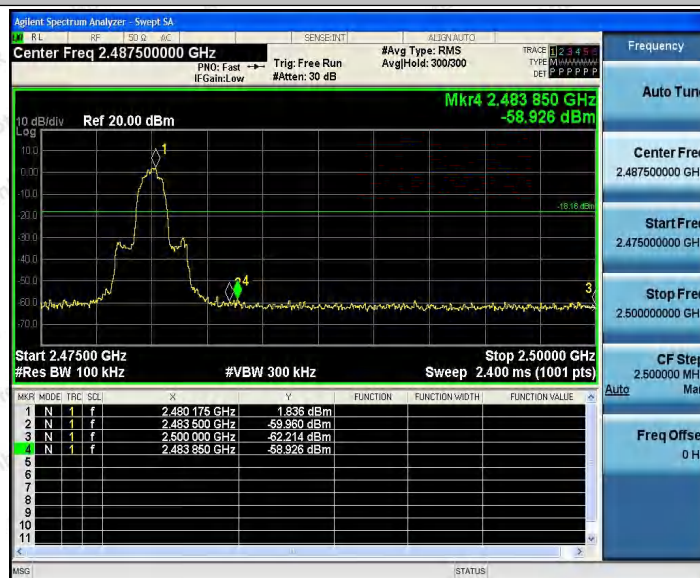
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3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



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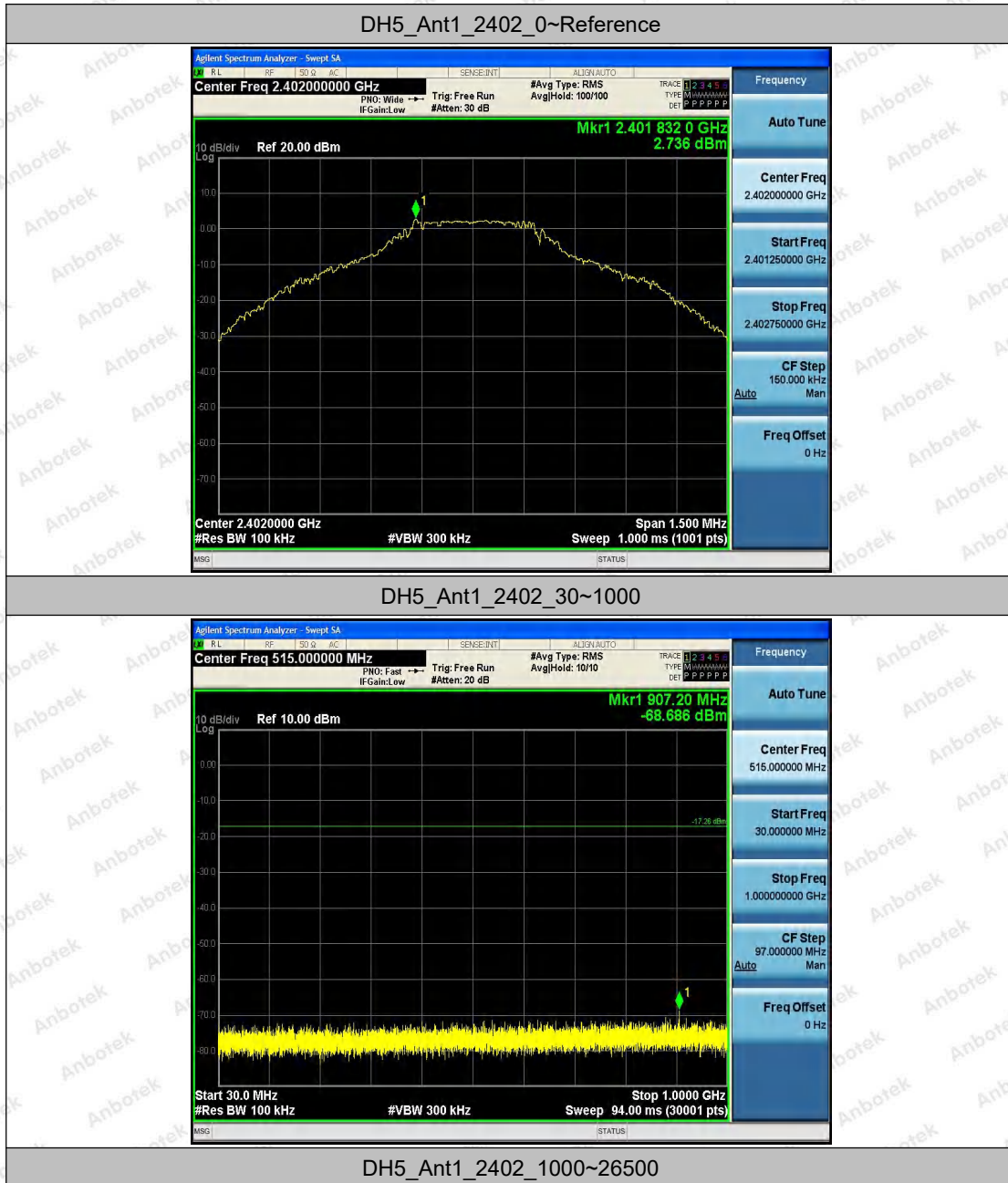
## Appendix H: Conducted Spurious Emission

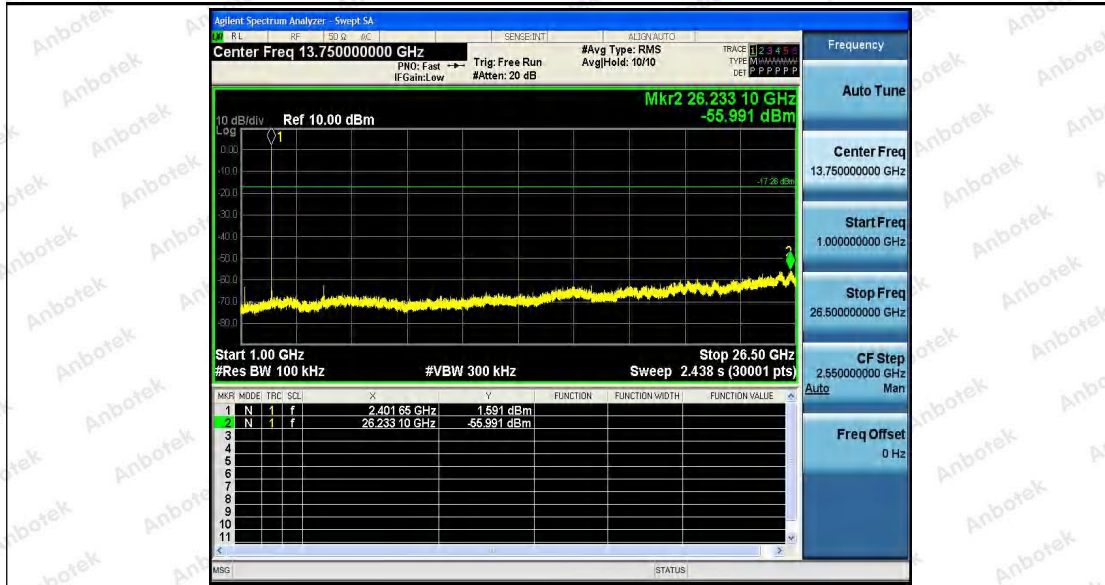
### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	2.74	2.74	---	PASS
			30~1000	2.74	-68.69	≤-17.26	PASS
			1000~26500	2.74	-55.99	≤-17.26	PASS
		2441	Reference	2.17	2.17	---	PASS
			30~1000	2.17	-70.36	≤-17.83	PASS
			1000~26500	2.17	-55.58	≤-17.83	PASS
		2480	Reference	3.06	3.06	---	PASS
			30~1000	3.06	-69.71	≤-16.95	PASS
			1000~26500	3.06	-55.52	≤-16.95	PASS
2DH5	Ant1	2402	Reference	1.17	1.17	---	PASS
			30~1000	1.17	-70.18	≤-18.83	PASS
			1000~26500	1.17	-55.23	≤-18.83	PASS
		2441	Reference	0.70	0.70	---	PASS
			30~1000	0.70	-70.66	≤-19.3	PASS
			1000~26500	0.70	-55.77	≤-19.3	PASS
		2480	Reference	1.73	1.73	---	PASS
			30~1000	1.73	-70.51	≤-18.27	PASS
			1000~26500	1.73	-54.92	≤-18.27	PASS
3DH5	Ant1	2402	Reference	1.71	1.71	---	PASS
			30~1000	1.71	-69.84	≤-18.29	PASS
			1000~26500	1.71	-55.55	≤-18.29	PASS
		2441	Reference	0.69	0.69	---	PASS
			30~1000	0.69	-70.42	≤-19.31	PASS
			1000~26500	0.69	-55.4	≤-19.31	PASS
		2480	Reference	0.95	0.95	---	PASS
			30~1000	0.95	-70.7	≤-19.05	PASS
			1000~26500	0.95	-55.29	≤-19.05	PASS



## Test Graphs

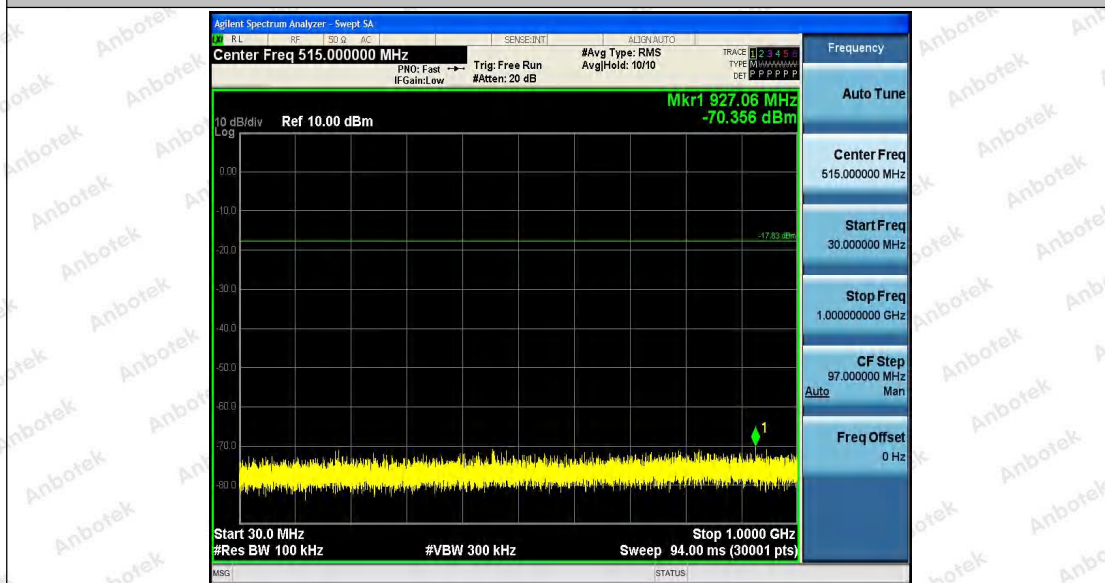




DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



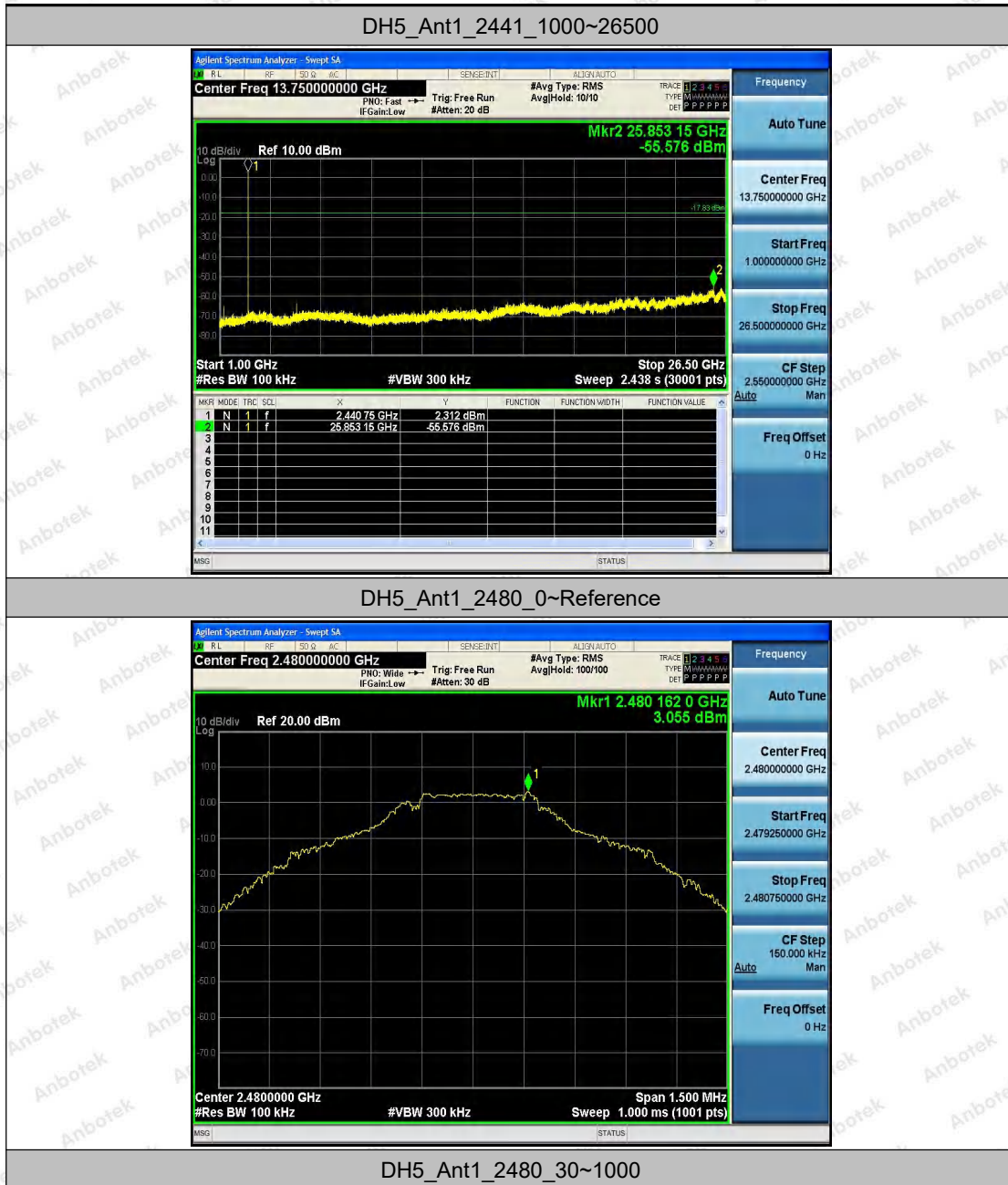
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Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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400-003-0500  
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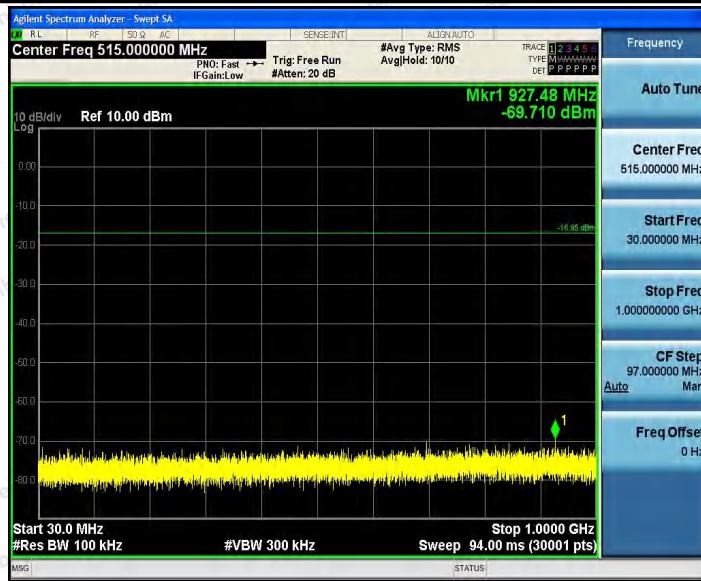


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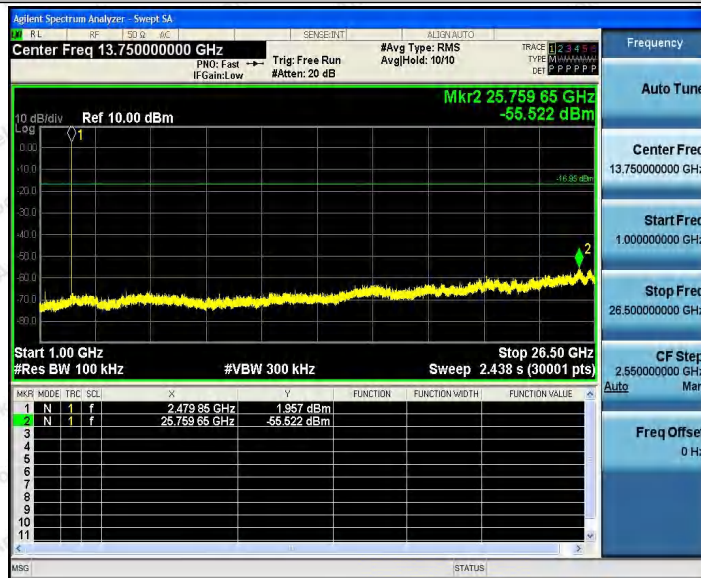
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



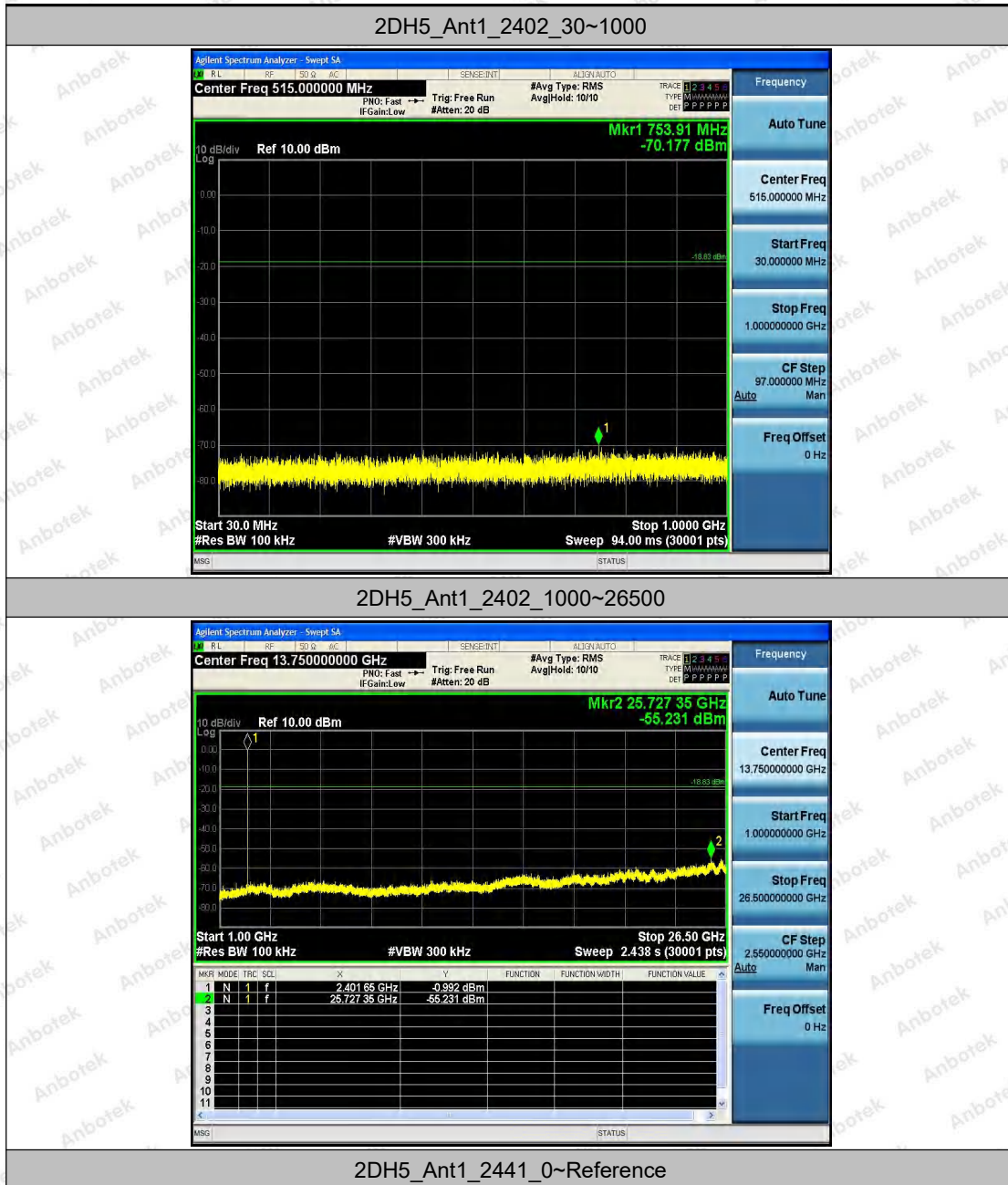
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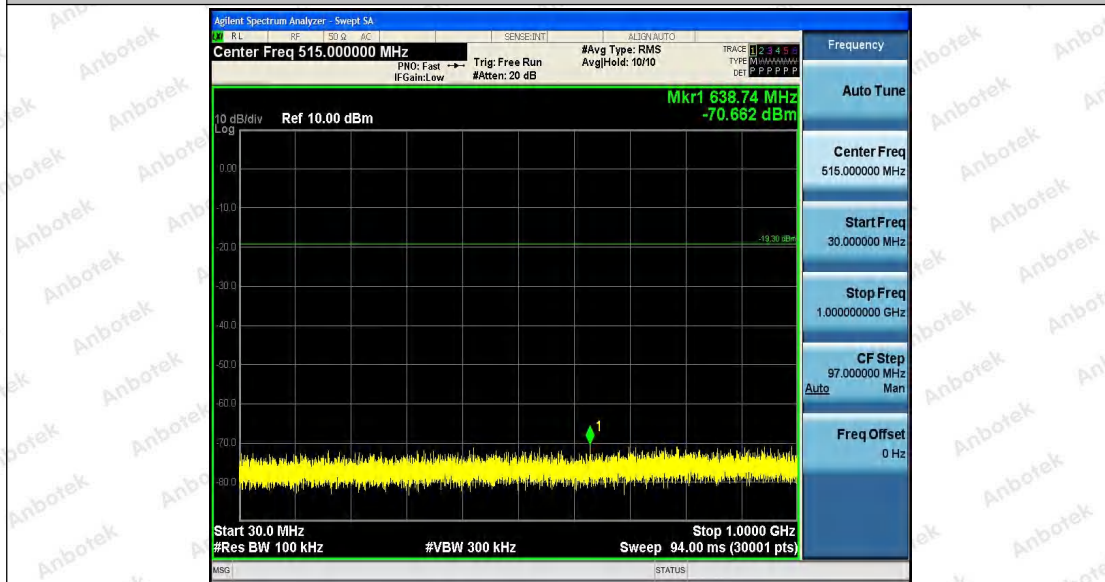
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

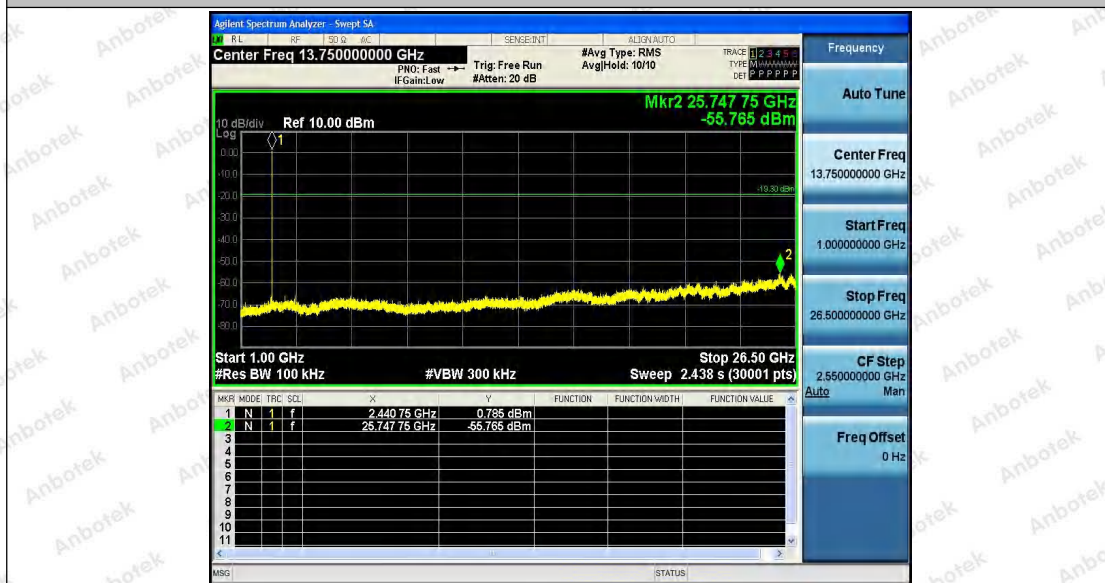
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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



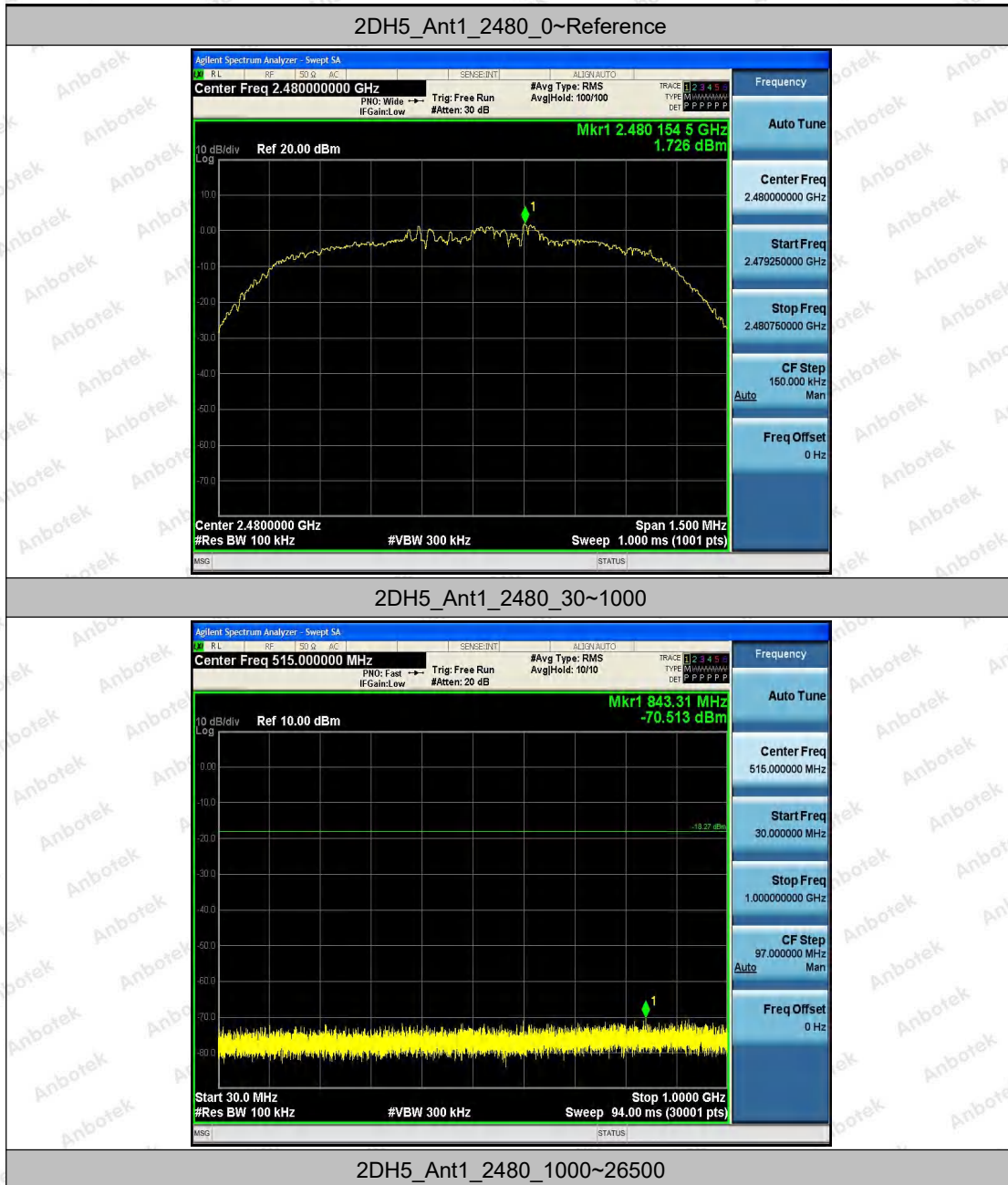
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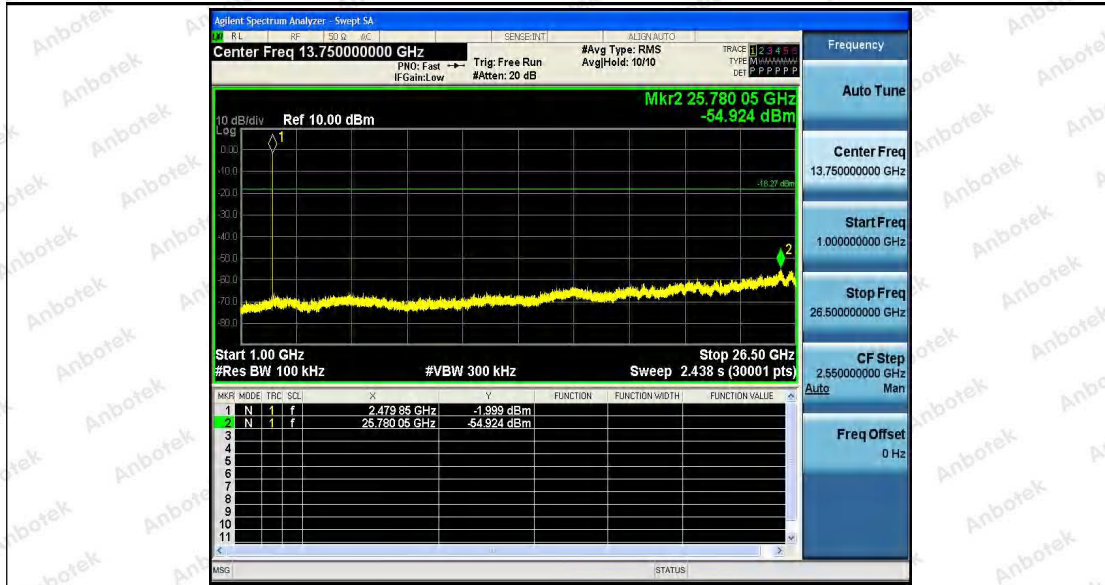




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 Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

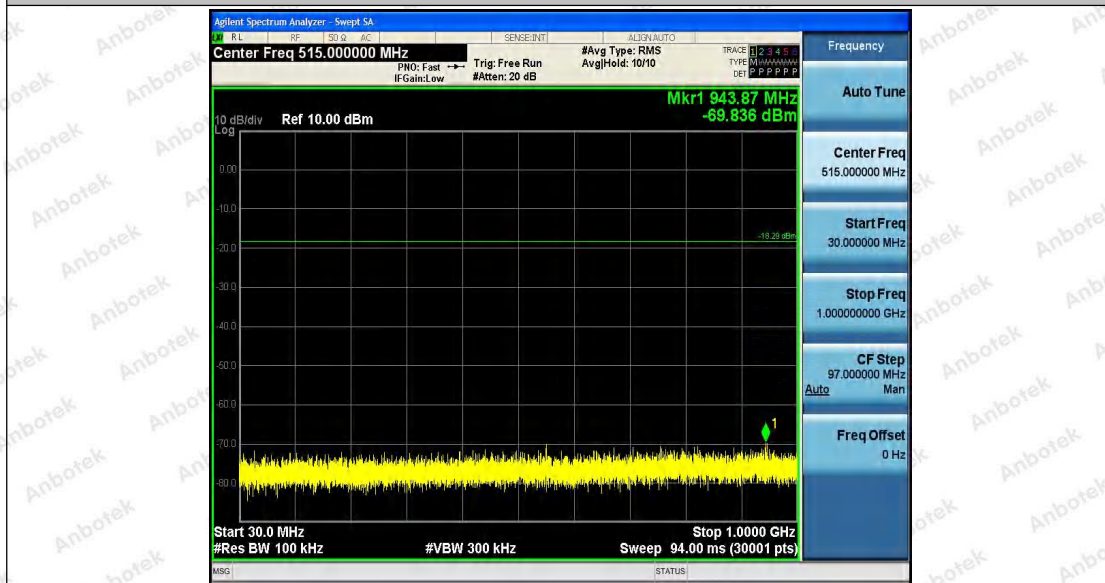
Hotline  
 400-003-0500  
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3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



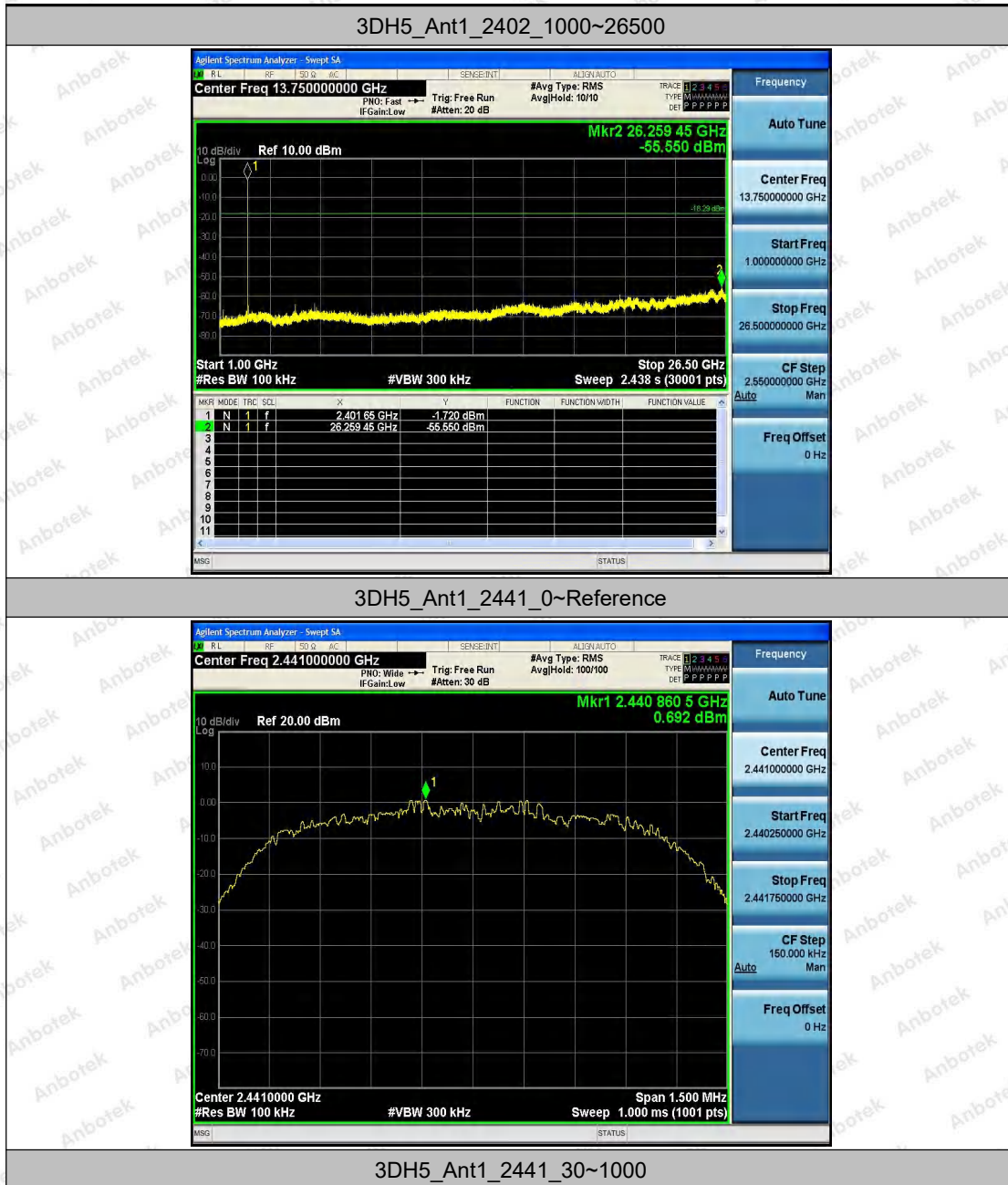
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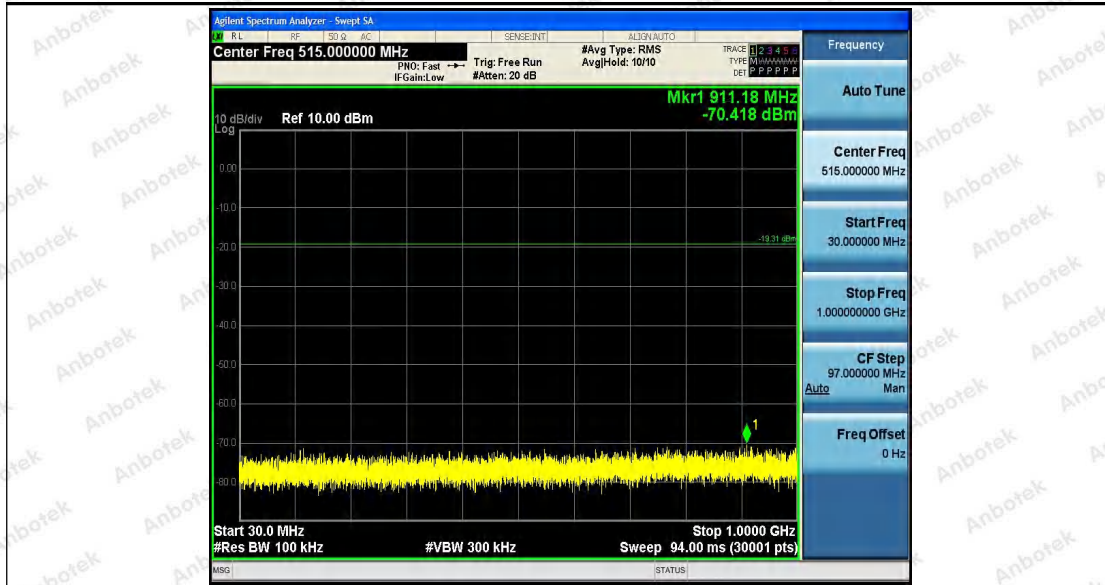


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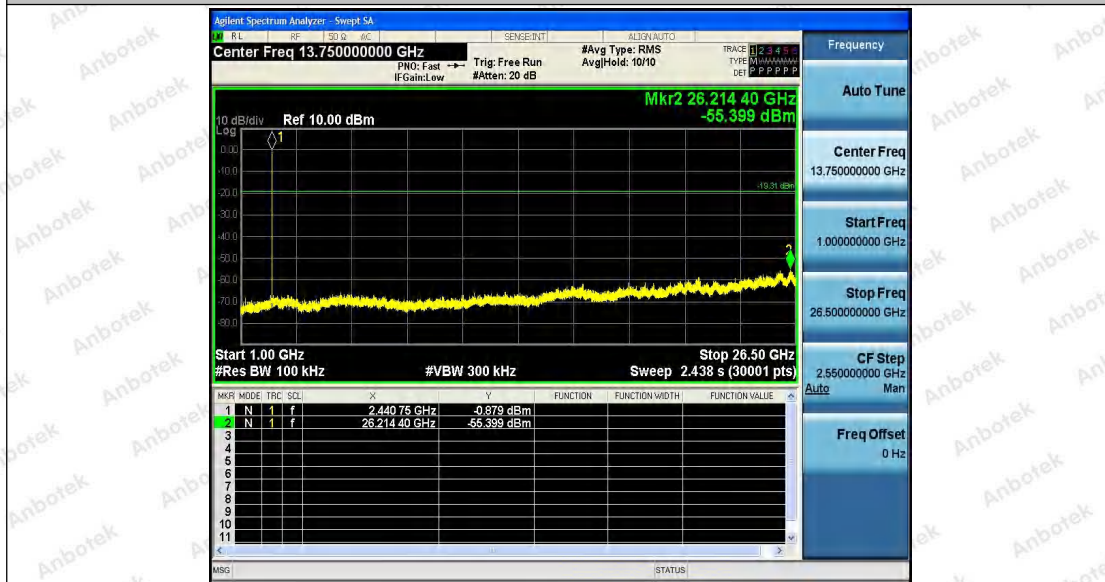
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



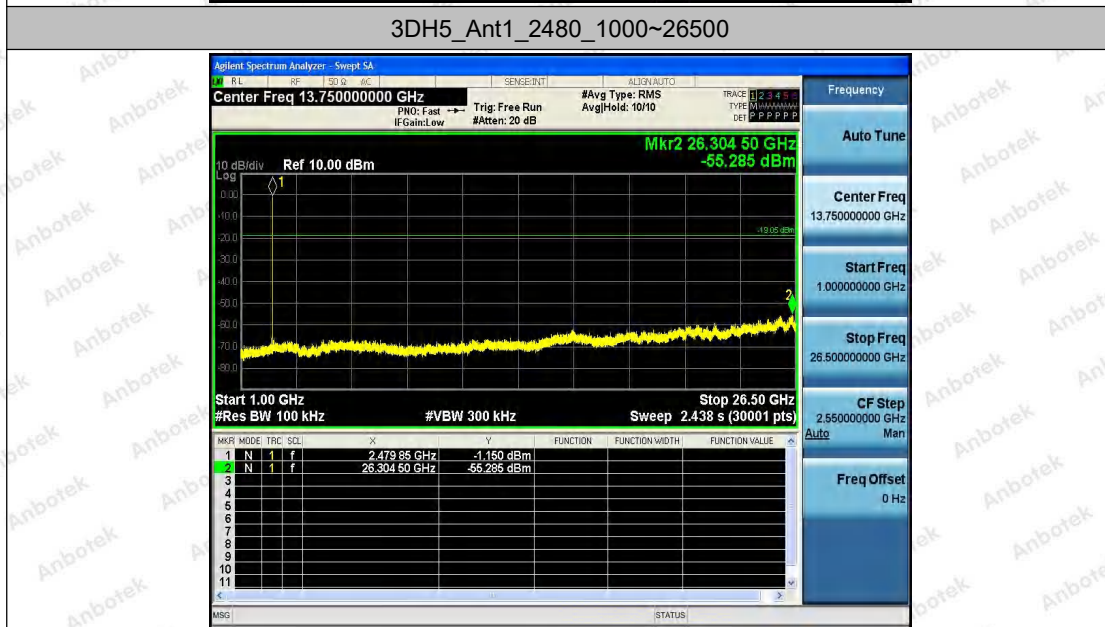
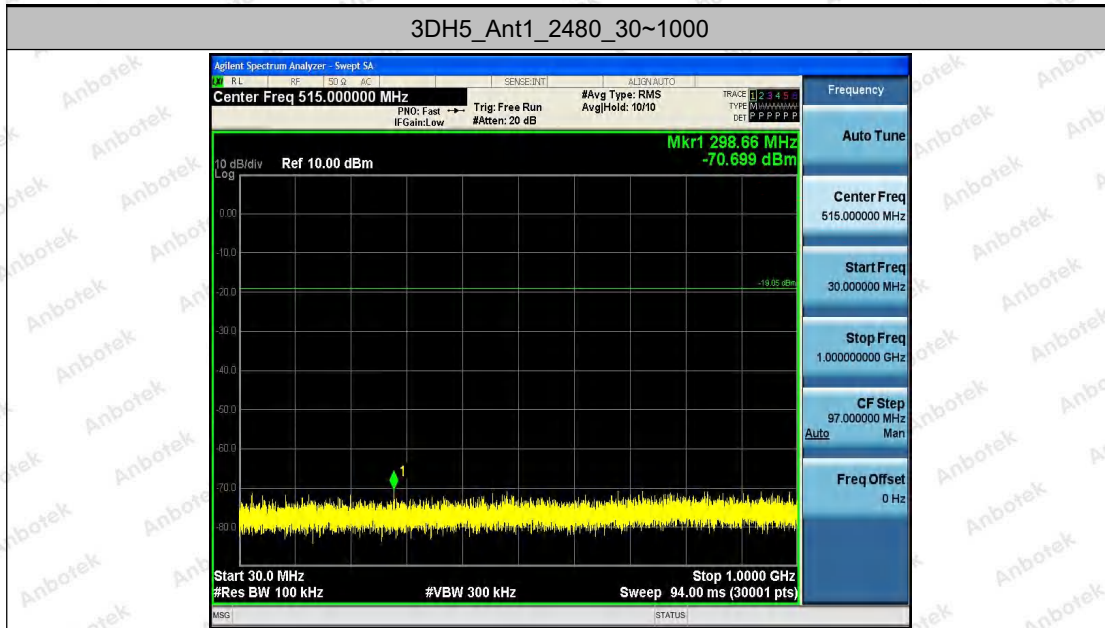
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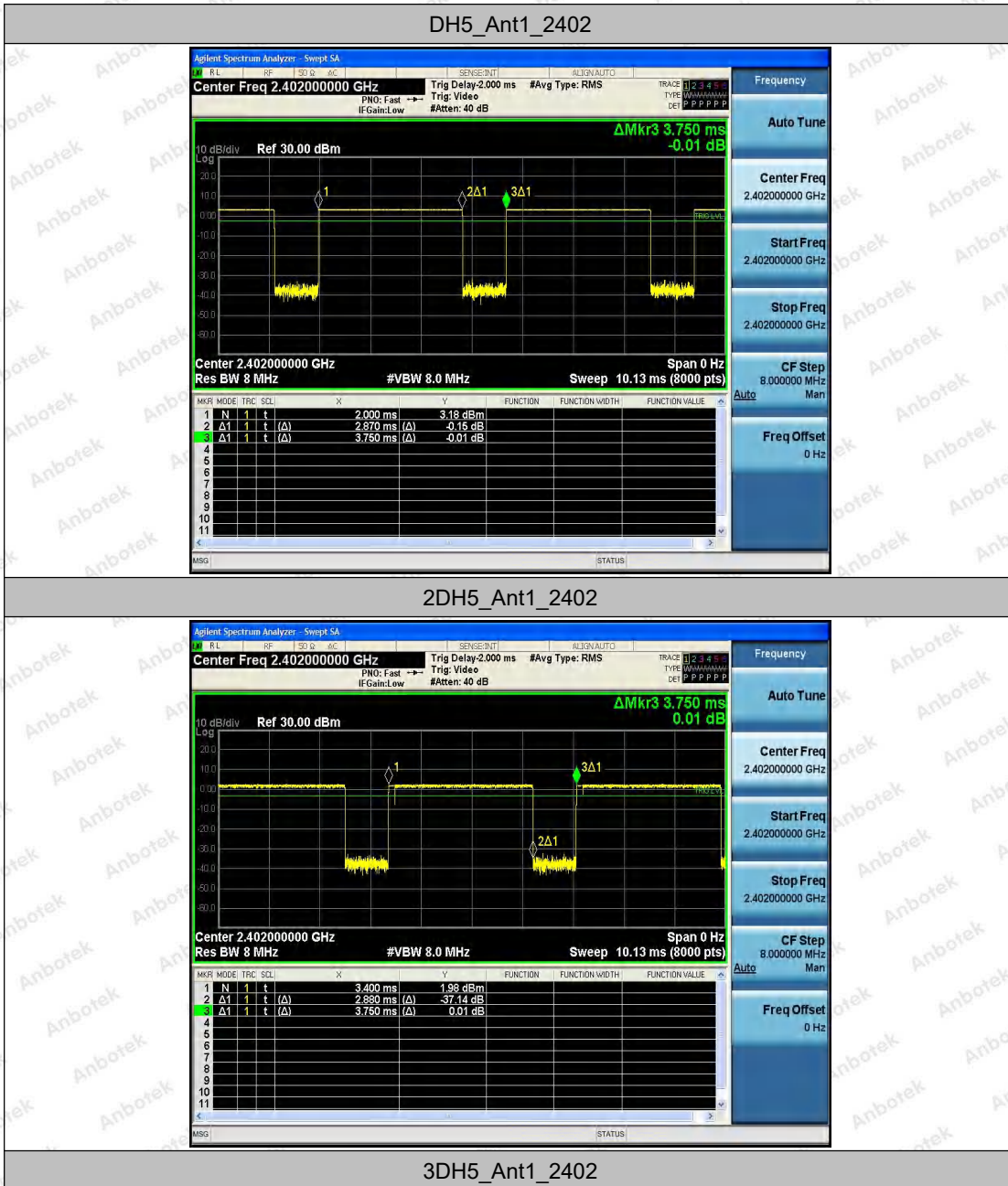
## Appendix I: Duty Cycle

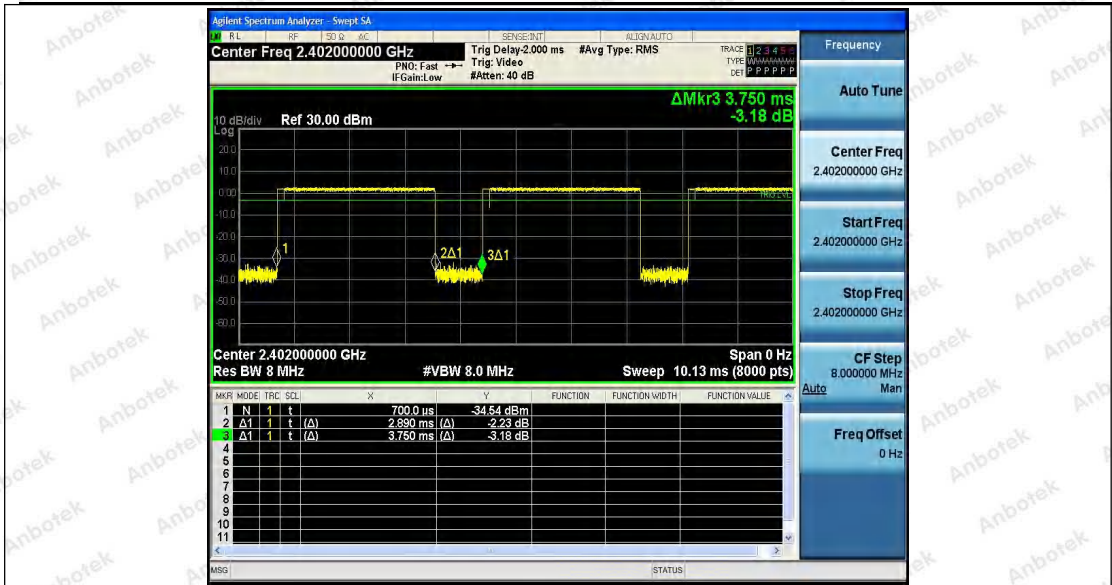
### Test Result

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---