

## Appendix Test Data

Report No.:	18220WC20133401	Test Sample No.:	1-2-2
Start Test Date:	2022.6.22	Finish Test Date:	2022.6.28
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	0.945	2440.541	2441.486	---	PASS
		2480	0.945	2479.541	2480.486	---	PASS
2DH5	Ant1	2402	1.323	2401.337	2402.660	---	PASS
		2441	1.320	2440.340	2441.660	---	PASS
		2480	1.326	2479.337	2480.663	---	PASS
3DH5	Ant1	2402	1.308	2401.346	2402.654	---	PASS
		2441	1.299	2440.346	2441.645	---	PASS
		2480	1.266	2479.358	2480.624	---	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 B: Occupied Channel Bandwidth

### Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88727	2401.55 7	2402.444	---	PASS
		2441	0.89701	2440.55 7	2441.454	---	PASS
		2480	0.88770	2479.55 8	2480.445	---	PASS
2DH5	Ant1	2402	1.1963	2401.40 2	2402.598	---	PASS
		2441	1.1952	2440.40 2	2441.597	---	PASS
		2480	1.1932	2479.40 3	2480.596	---	PASS
3DH5	Ant1	2402	1.2060	2401.38 8	2402.594	---	PASS
		2441	1.2098	2440.38 6	2441.596	---	PASS
		2480	1.2116	2479.38 5	2480.596	---	PASS



## Test Graphs





2DH5\_Ant1\_2402



2DH5\_Ant1\_2441



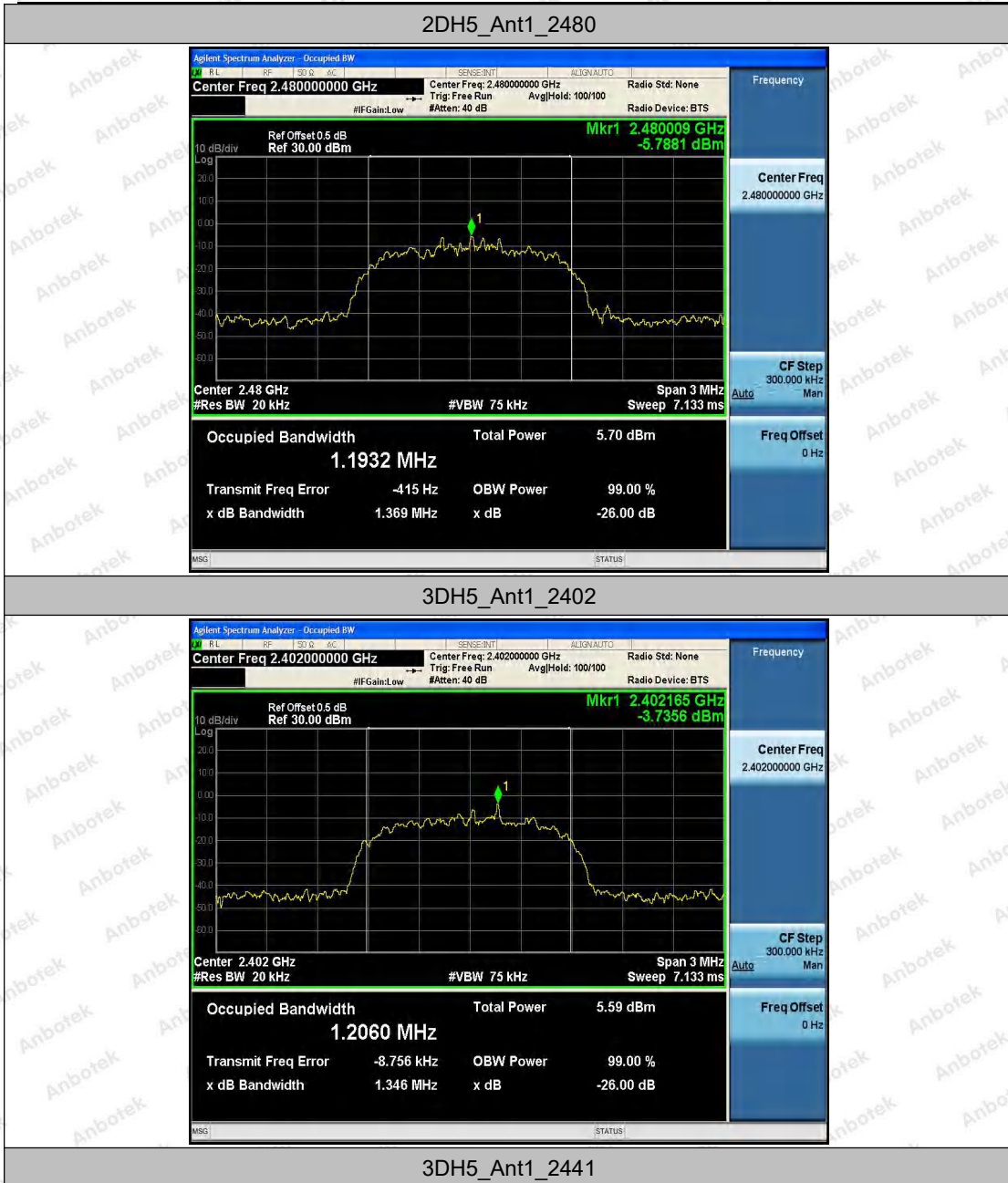
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3DH5\_Ant1\_2480



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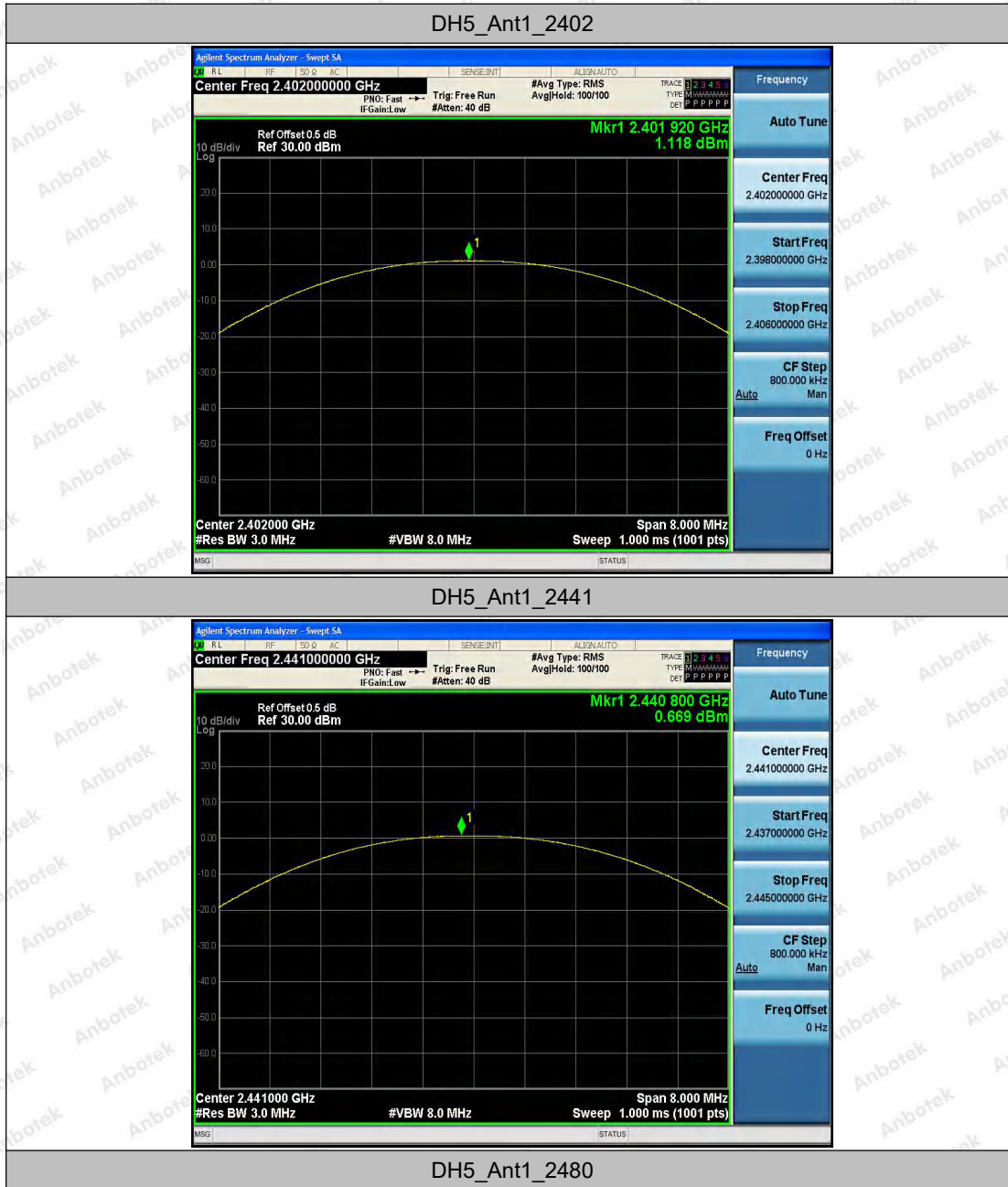


## Appendix C: Maximum conducted output power

### Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	1.12	≤20.97	PASS
		2441	0.67	≤20.97	PASS
		2480	0.66	≤20.97	PASS
2DH5	Ant1	2402	0.71	≤20.97	PASS
		2441	0.29	≤20.97	PASS
		2480	0.2	≤20.97	PASS
3DH5	Ant1	2402	0.84	≤20.97	PASS
		2441	0.48	≤20.97	PASS
		2480	0.36	≤20.97	PASS

## Test Graphs



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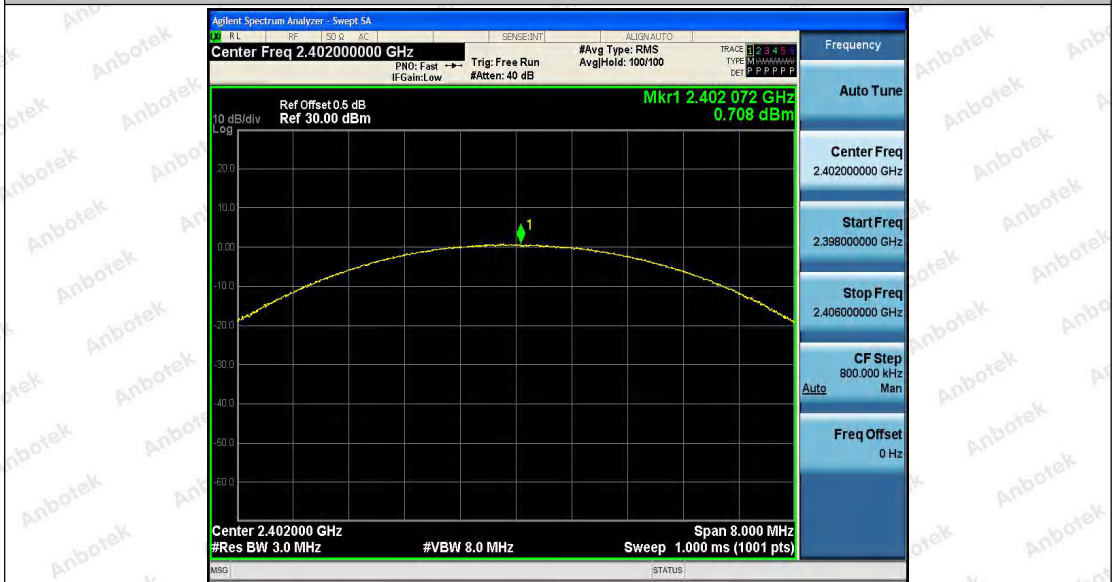
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2DH5\_Ant1\_2402



2DH5\_Ant1\_2441

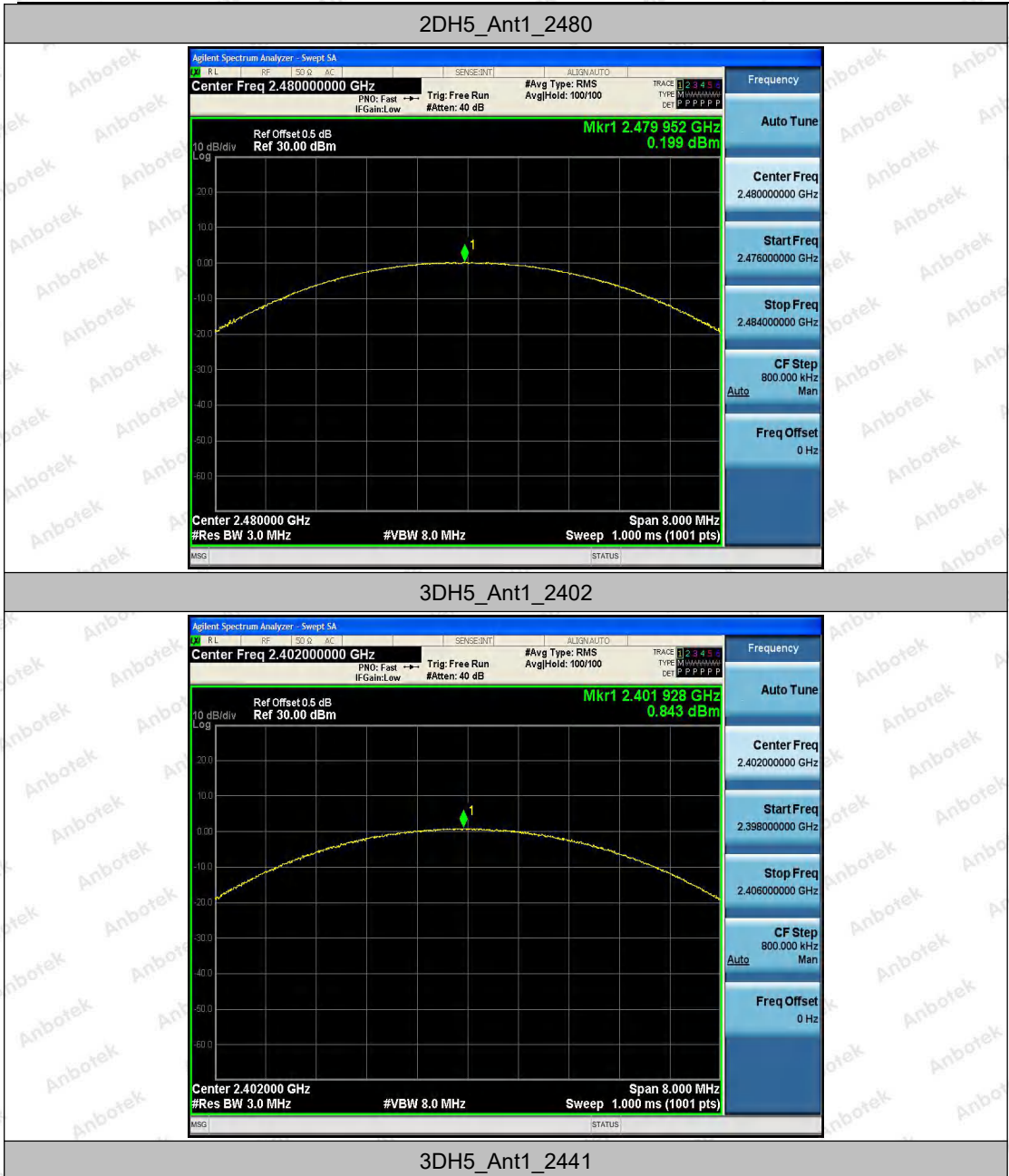


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3DH5\_Ant1\_2480



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## Appendix D: Carrier frequency separation

### Test Result

TestMode	Antenna	Channel	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.92	$\geq 0.632$	PASS
2DH5	Ant1	Hop	1.178	$\geq 0.884$	PASS
3DH5	Ant1	Hop	1.028	$\geq 0.872$	PASS



## Test Graphs



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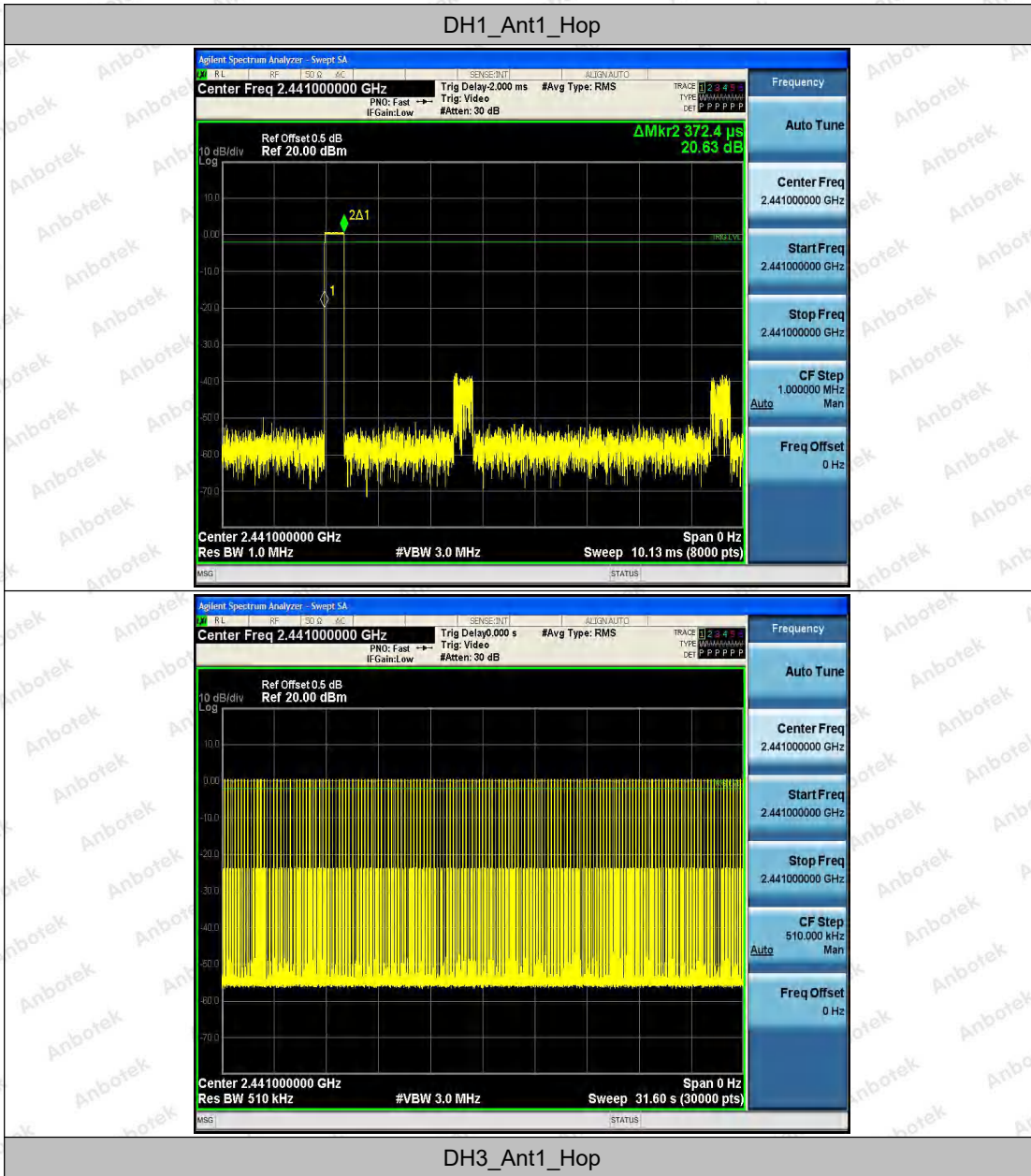


## Appendix E: Time of occupancy

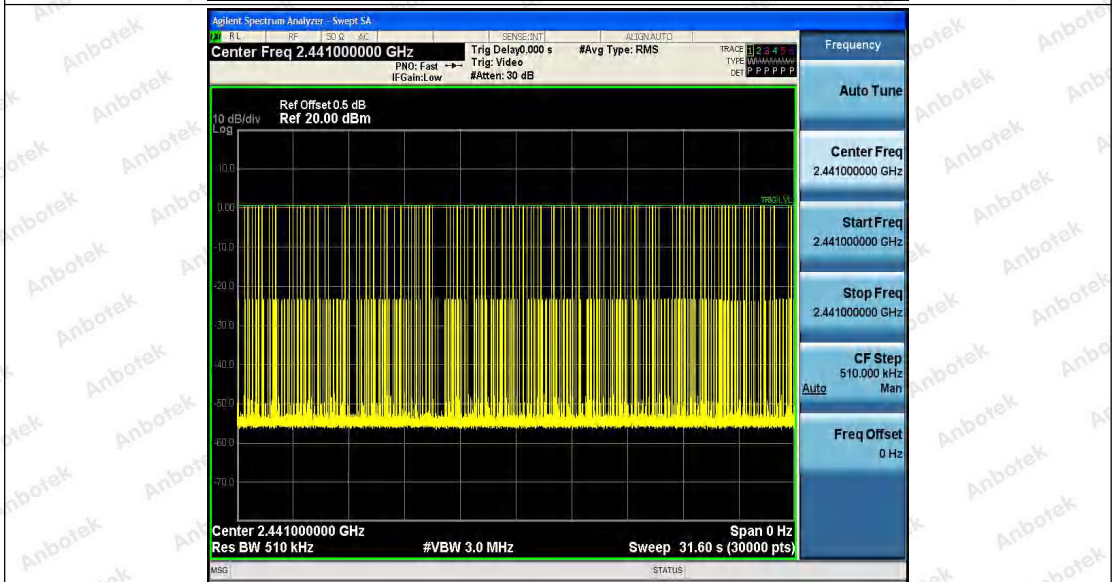
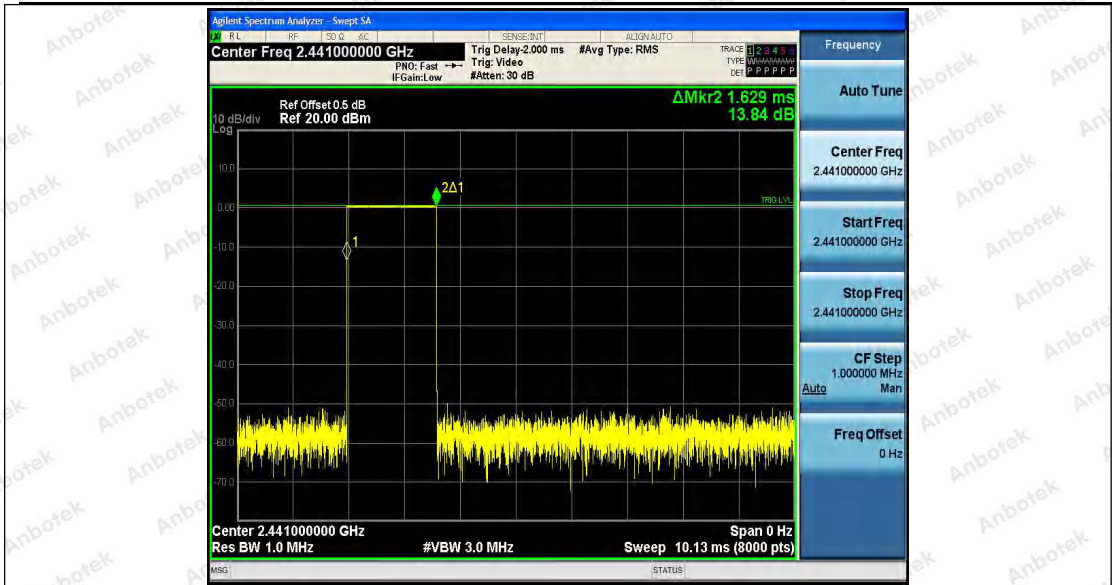
### Test Result

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	156	0.254	≤0.4	PASS
DH5	Ant1	Hop	2.88	108	0.311	≤0.4	PASS
2DH1	Ant1	Hop	0.38	314	0.119	≤0.4	PASS
2DH3	Ant1	Hop	1.63	157	0.256	≤0.4	PASS
2DH5	Ant1	Hop	2.88	107	0.308	≤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	100	0.288	≤0.4	PASS

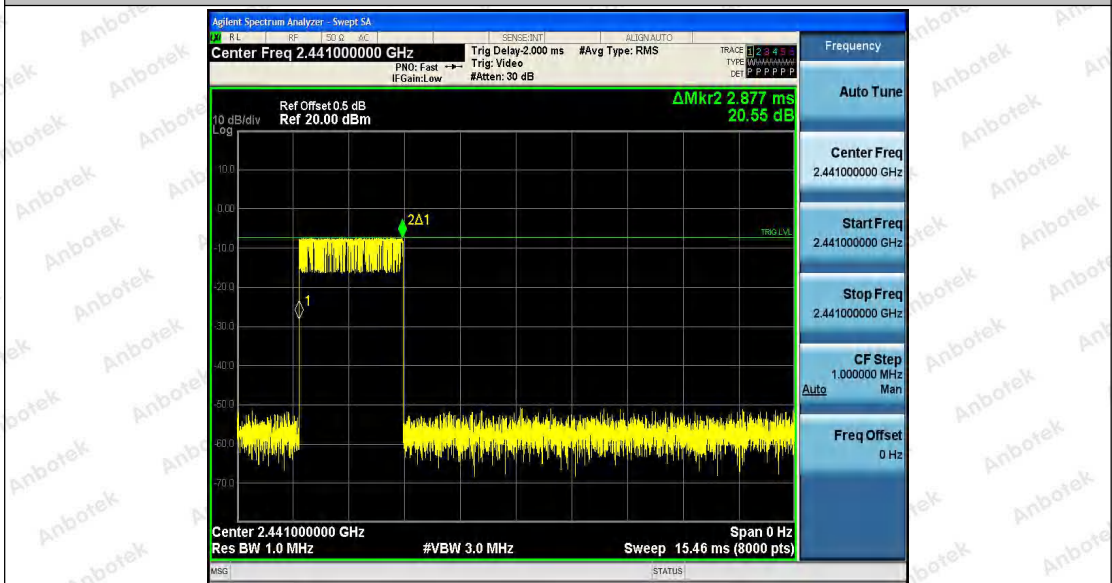
## Test Graphs







### DH5\_Ant1\_Hop

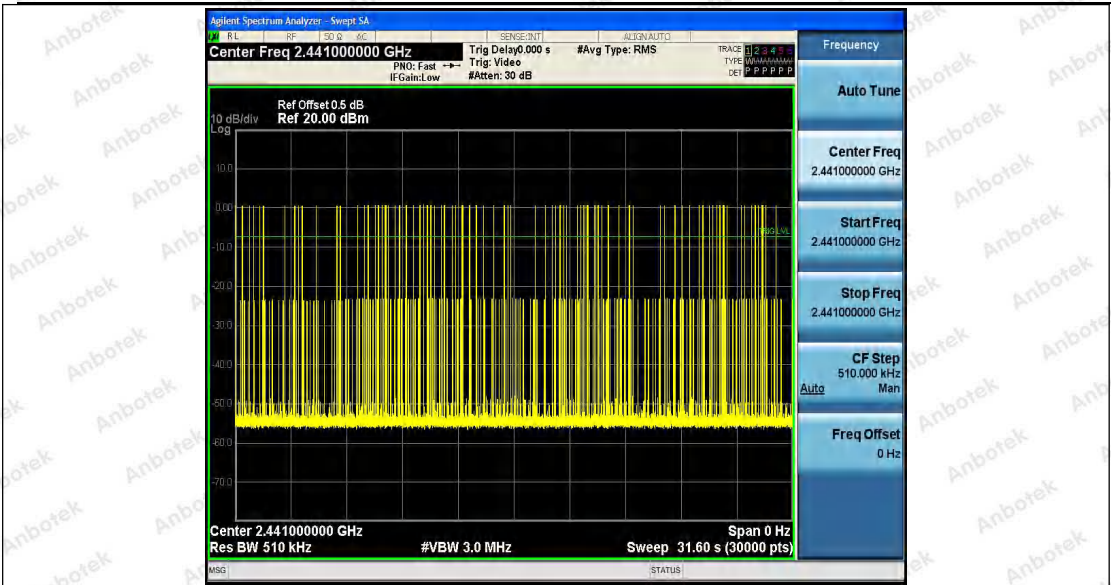


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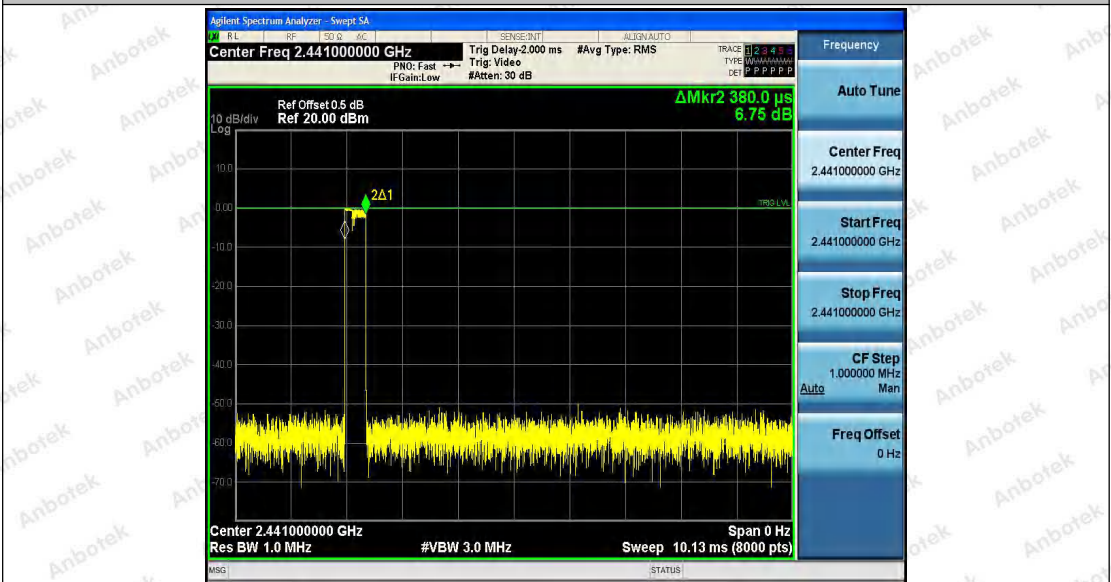
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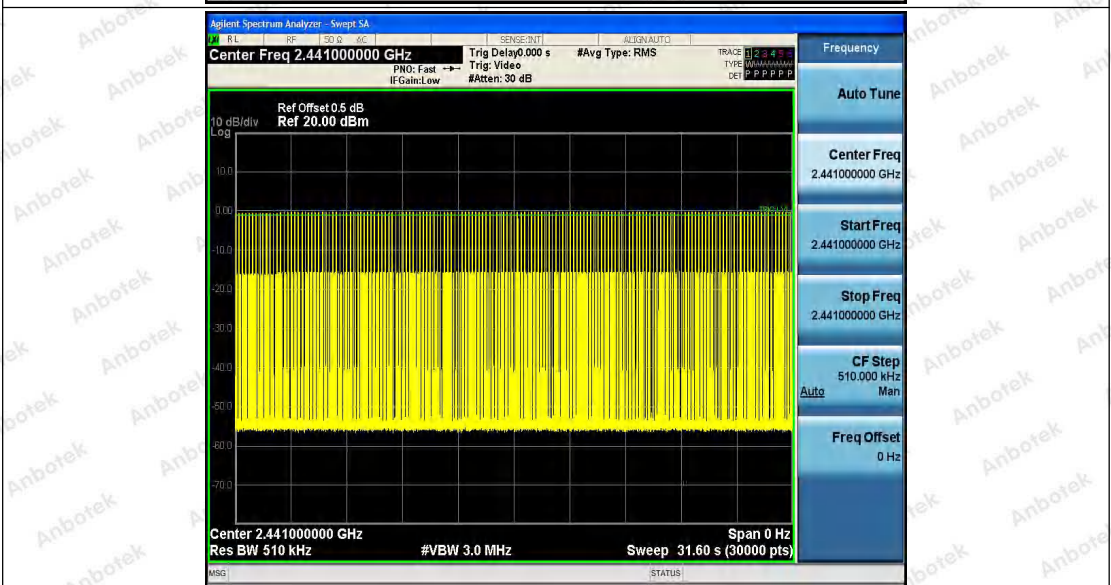
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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop



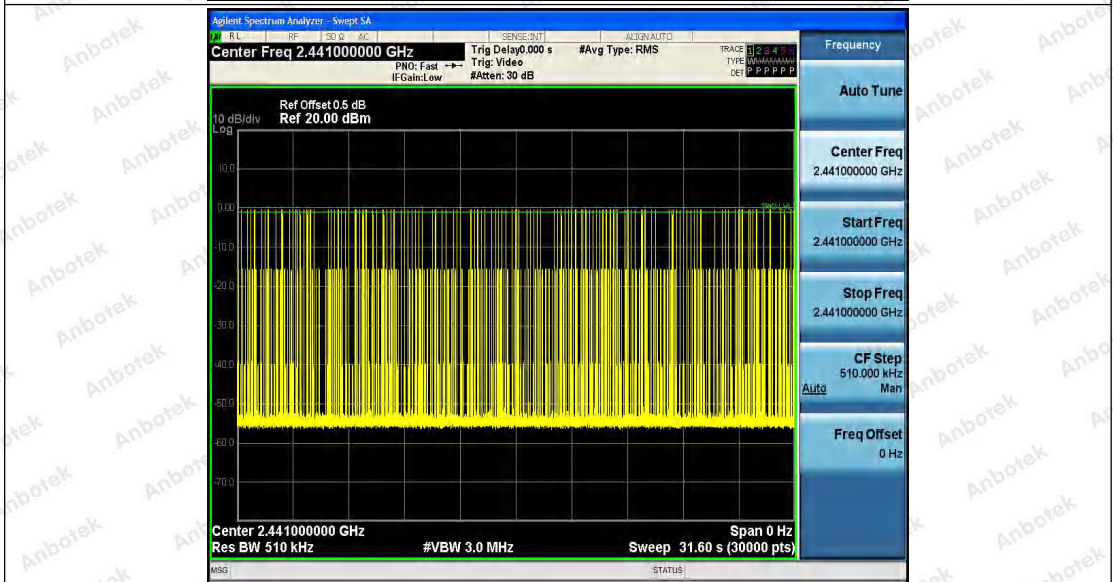
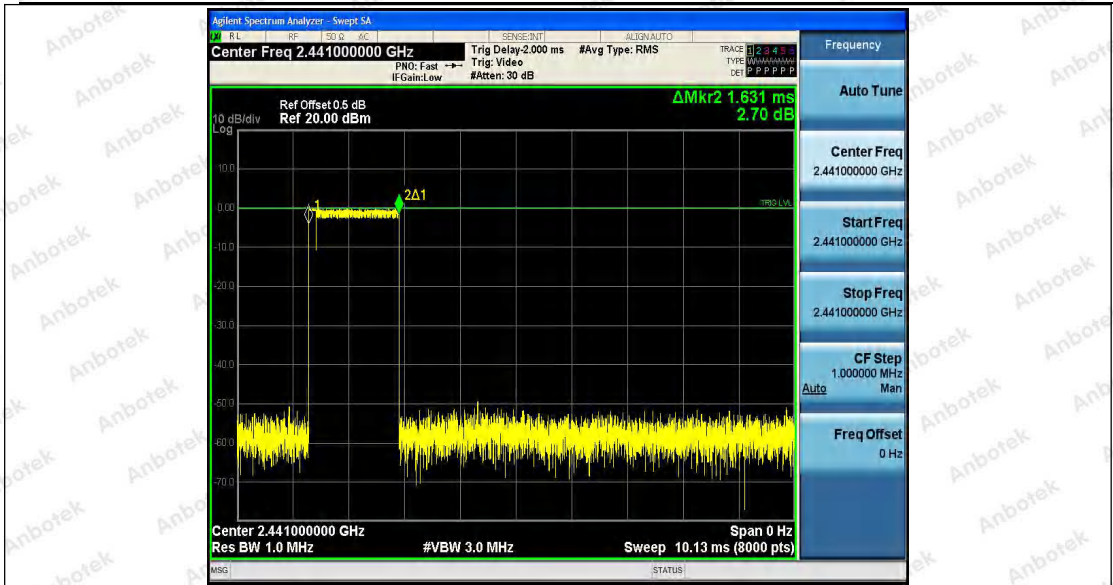
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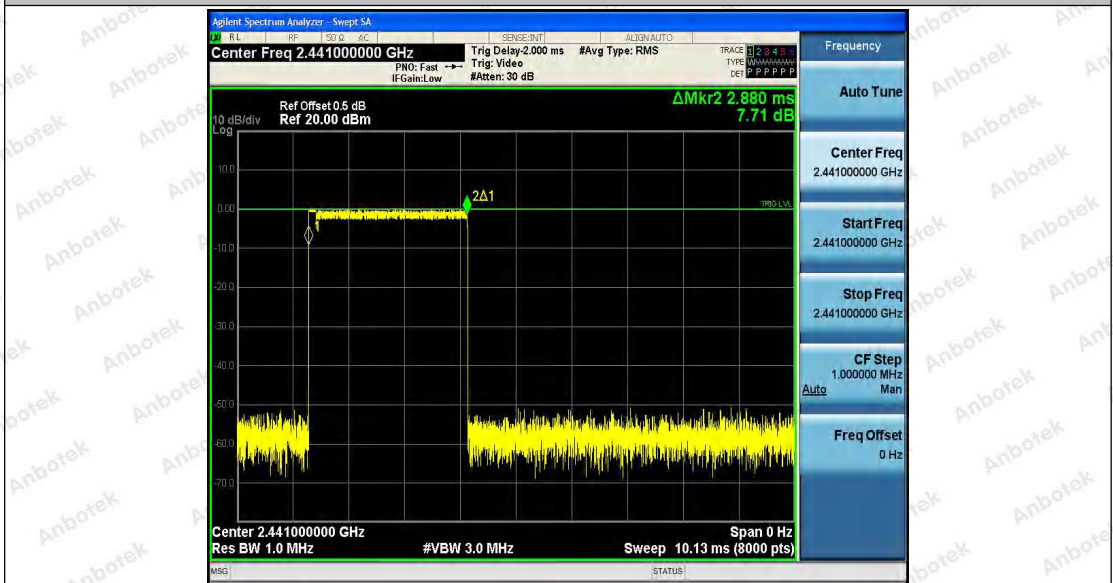
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### 2DH5\_Ant1\_Hop

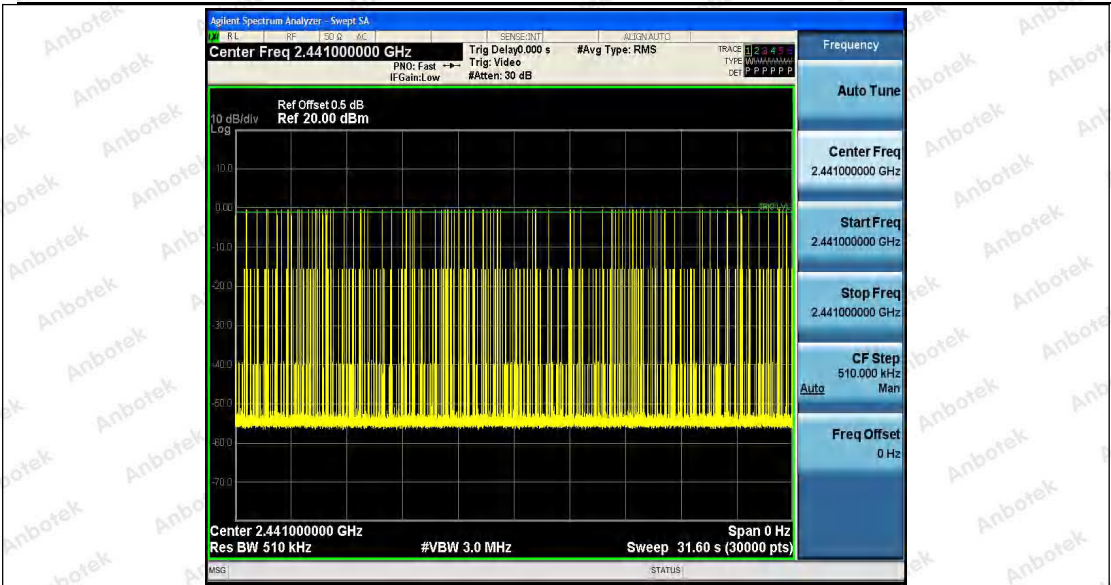


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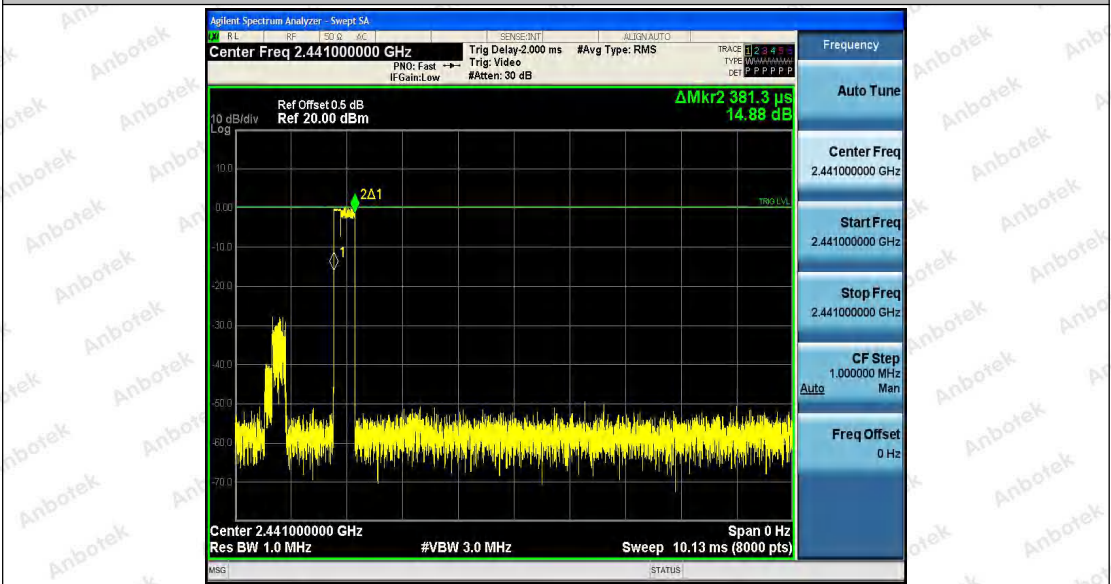
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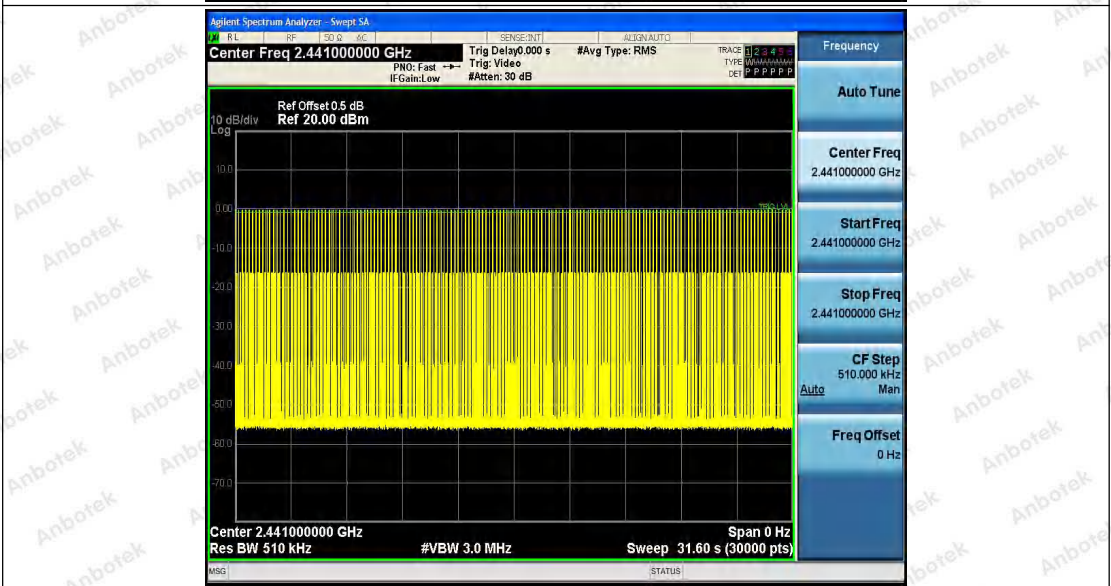
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3DH1\_Ant1\_Hop



3DH3\_Ant1\_Hop

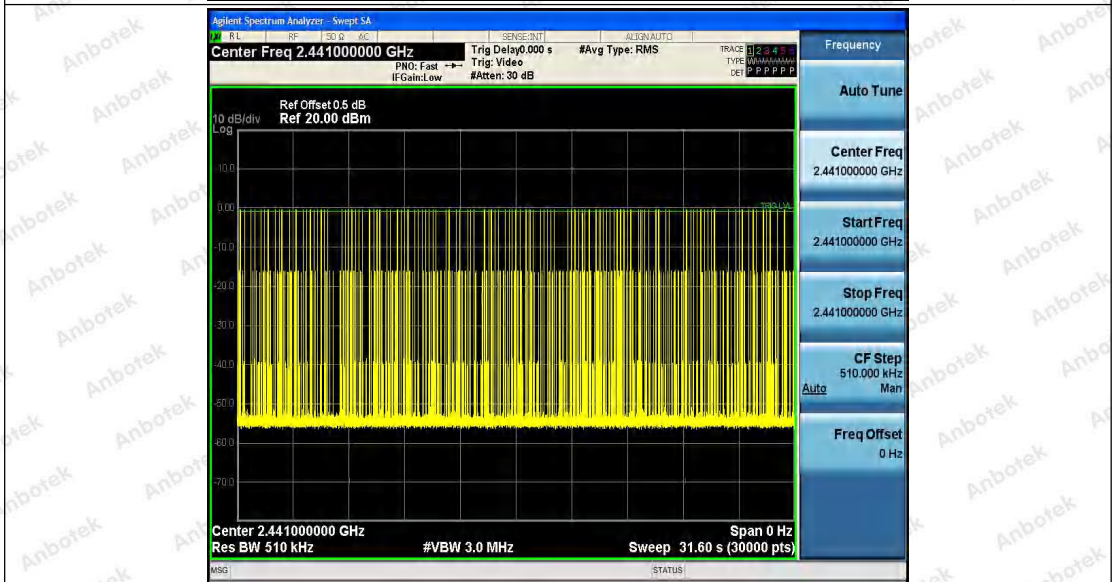
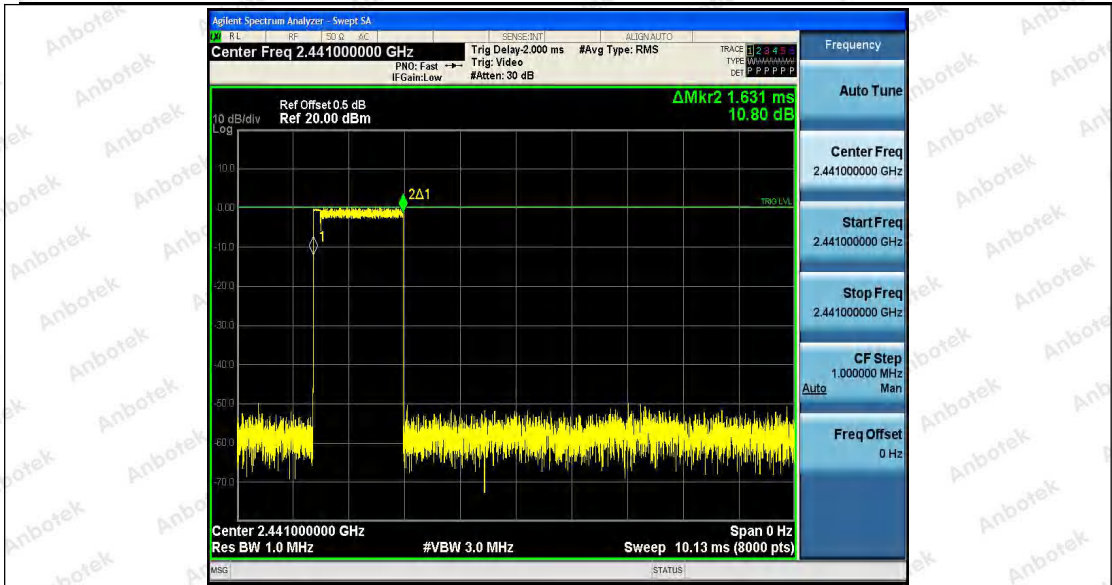


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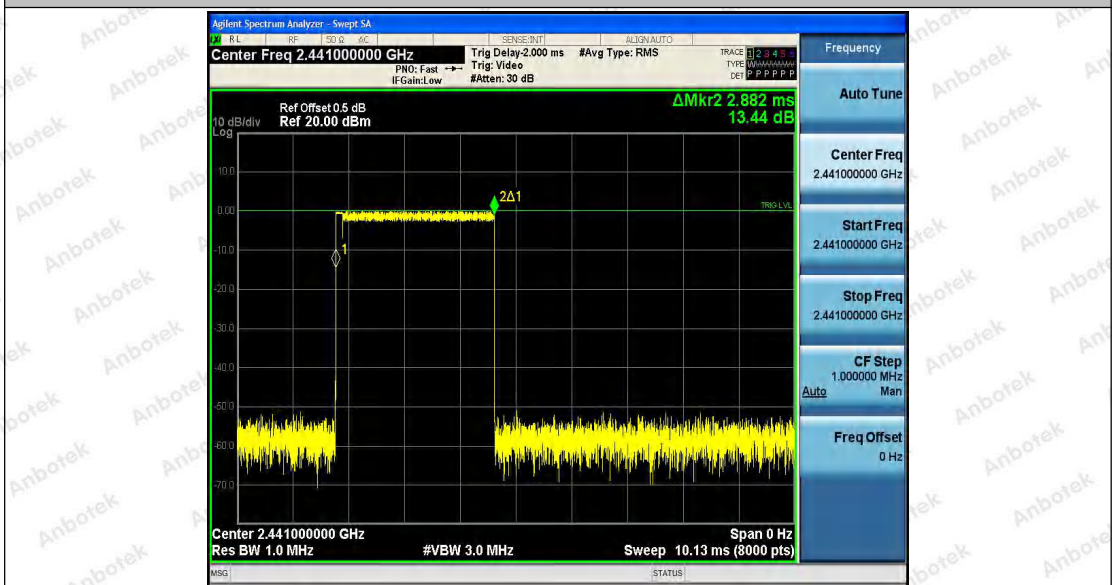
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### 3DH5\_Ant1\_Hop

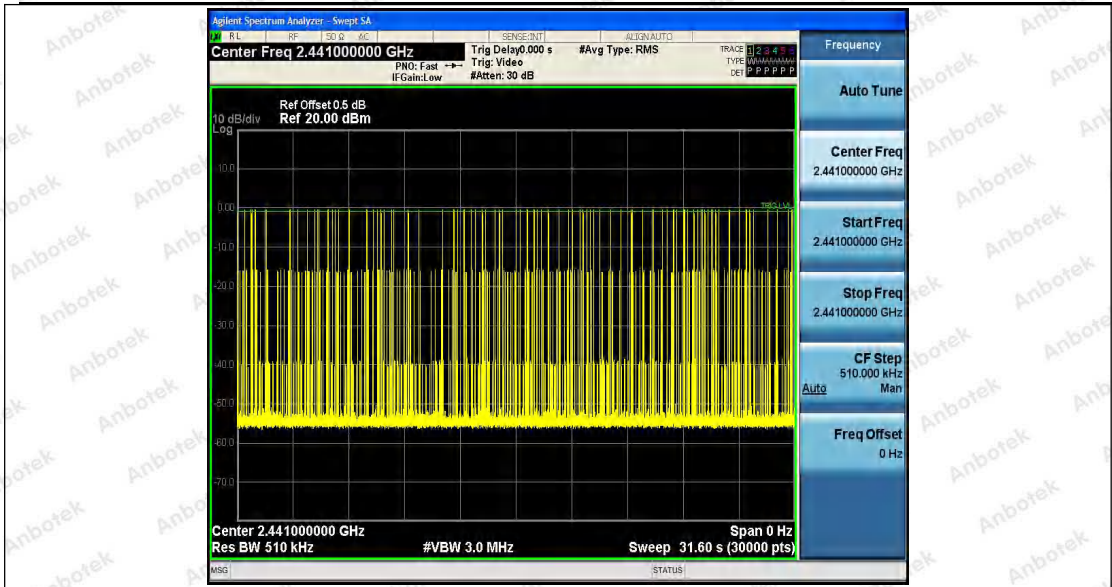


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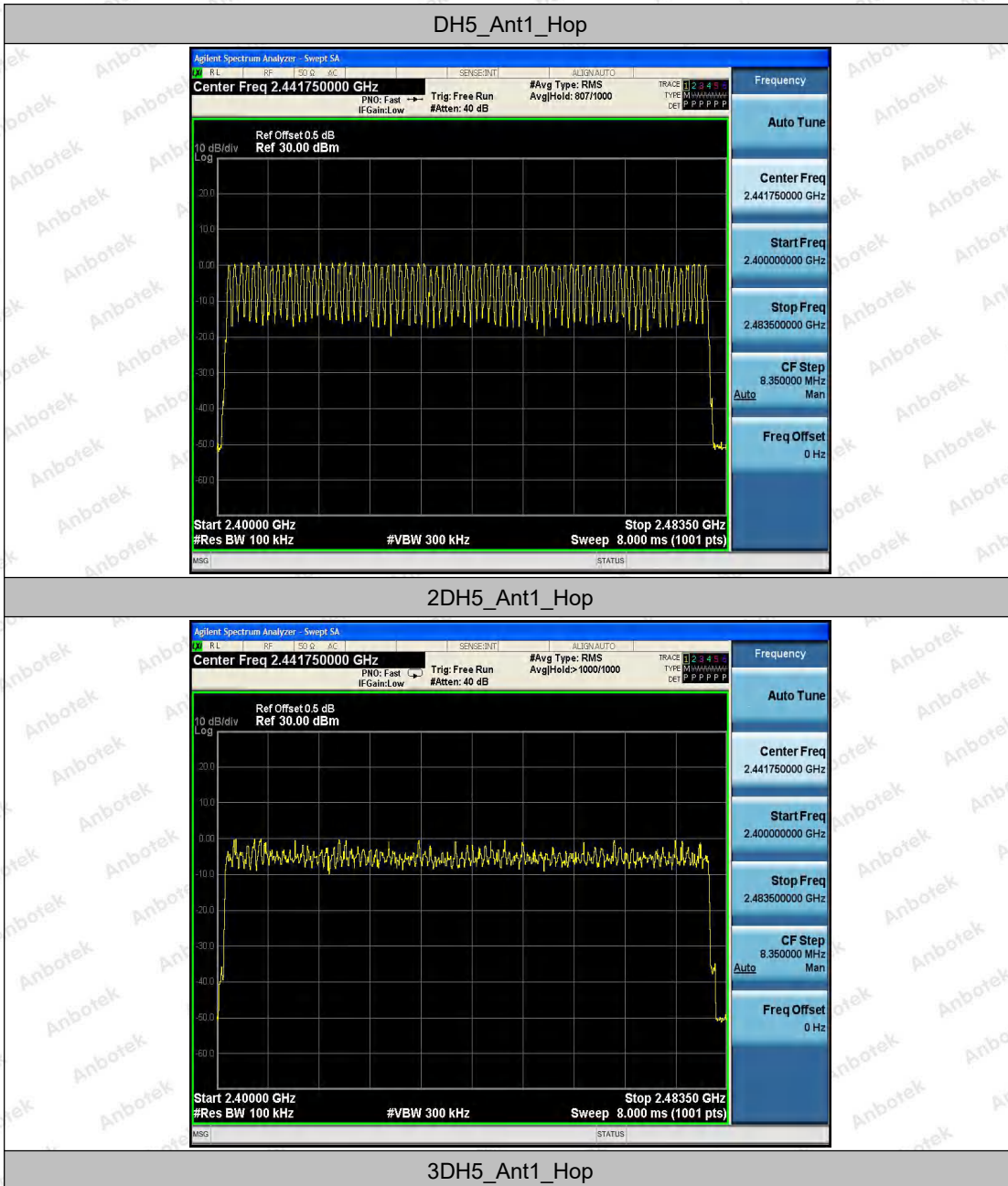


## Appendix F: Number of hopping channels

### 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



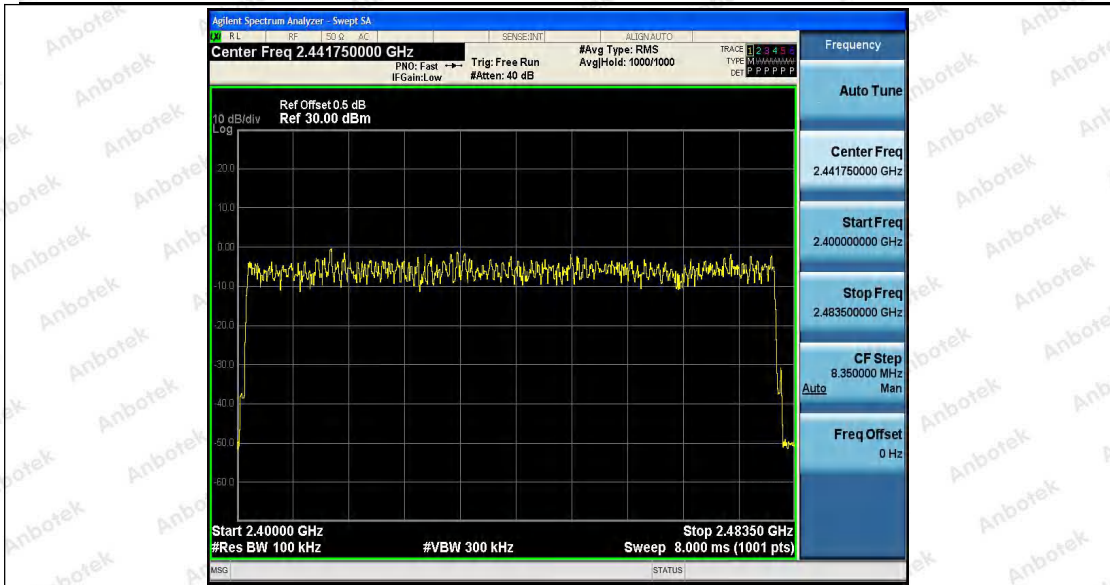
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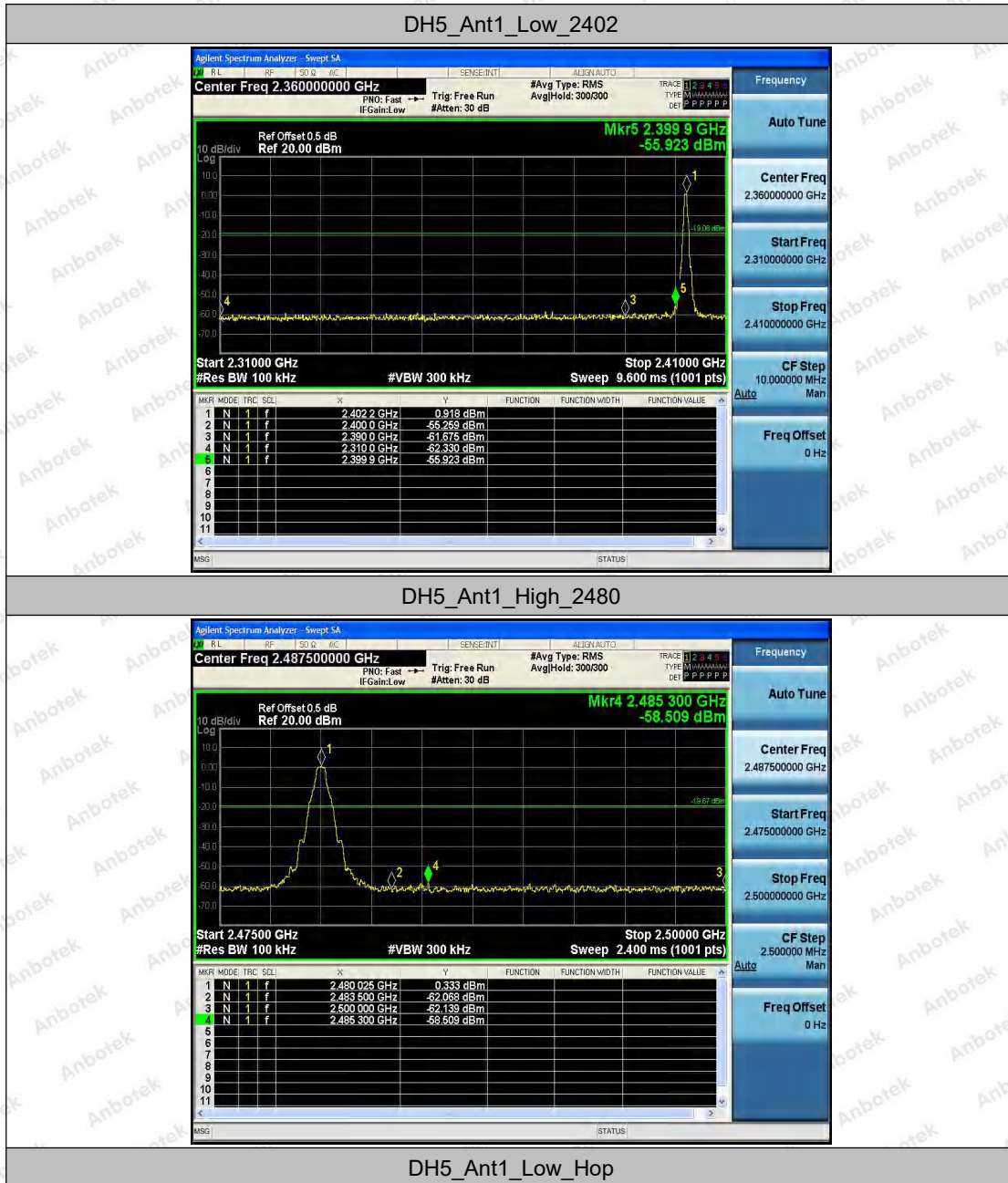
## Appendix G: Band edge measurements

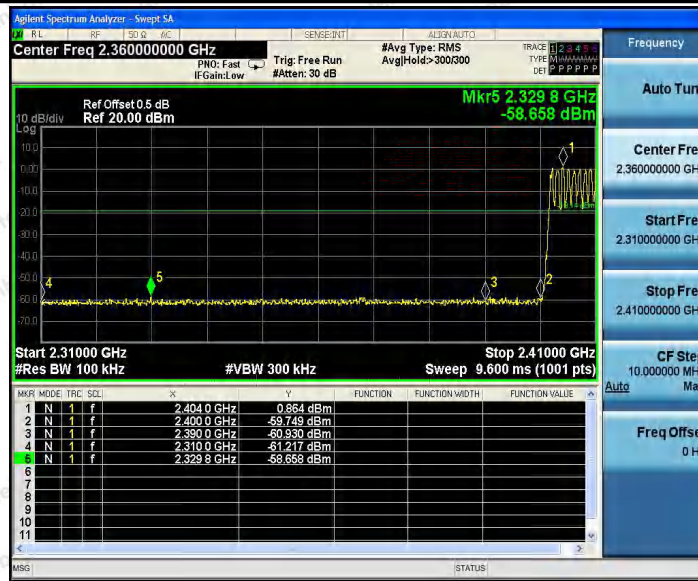
### Test Result

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	0.92	-55.92	≤-19.08	PASS
		High	2480	0.33	-58.51	≤-19.67	PASS
		Low	Hop	0.86	-58.66	≤-19.14	PASS
		High	Hop	0.43	-60.93	≤-19.57	PASS
2DH5	Ant1	Low	2402	-0.62	-54.99	≤-20.62	PASS
		High	2480	-2.29	-57.92	≤-22.29	PASS
		Low	Hop	-1.82	-58.77	≤-21.82	PASS
		High	Hop	-3.93	-62.16	≤-23.93	PASS
3DH5	Ant1	Low	2402	-0.18	-54.32	≤-20.18	PASS
		High	2480	-0.47	-59.08	≤-20.47	PASS
		Low	Hop	-2.10	-59.2	≤-22.1	PASS
		High	Hop	-4.30	-61.68	≤-24.3	PASS

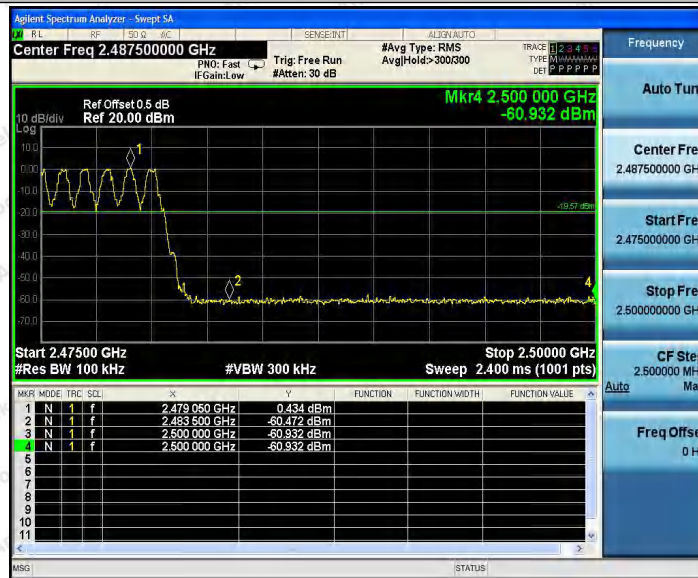


## Test Graphs

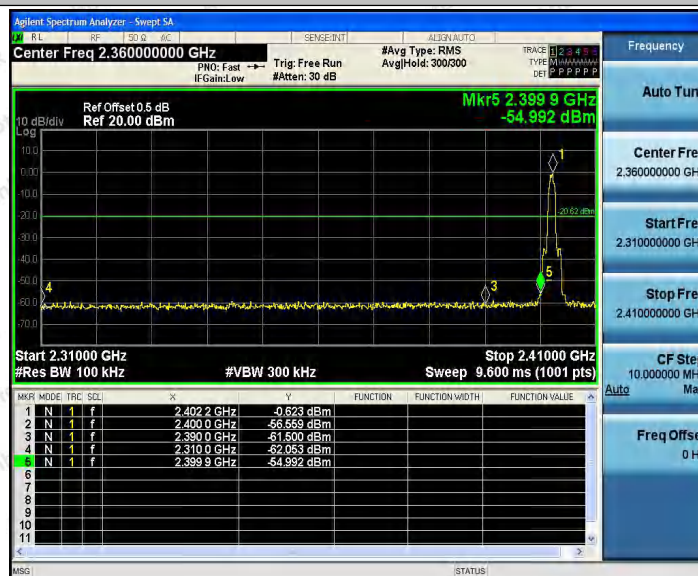




DH5\_Ant1\_High\_Hop



2DH5\_Ant1\_Low\_2402



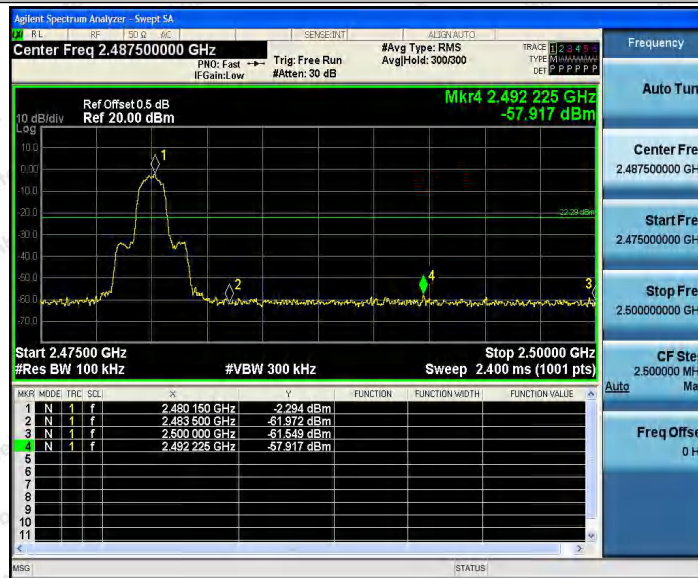
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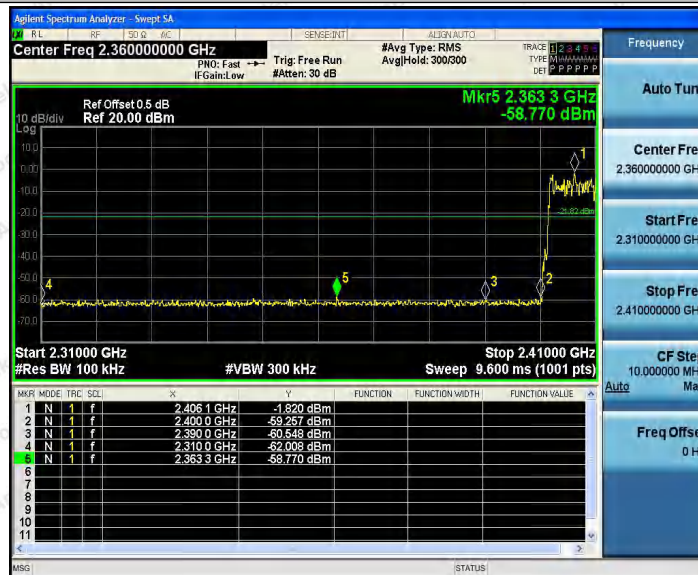
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### 2DH5\_Ant1\_High\_2480



### 2DH5\_Ant1\_Low\_Hop



### 2DH5\_Ant1\_High\_Hop

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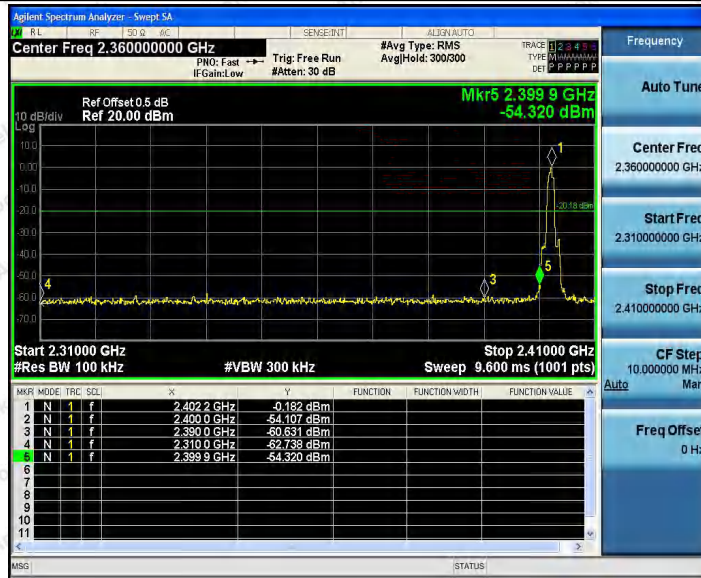
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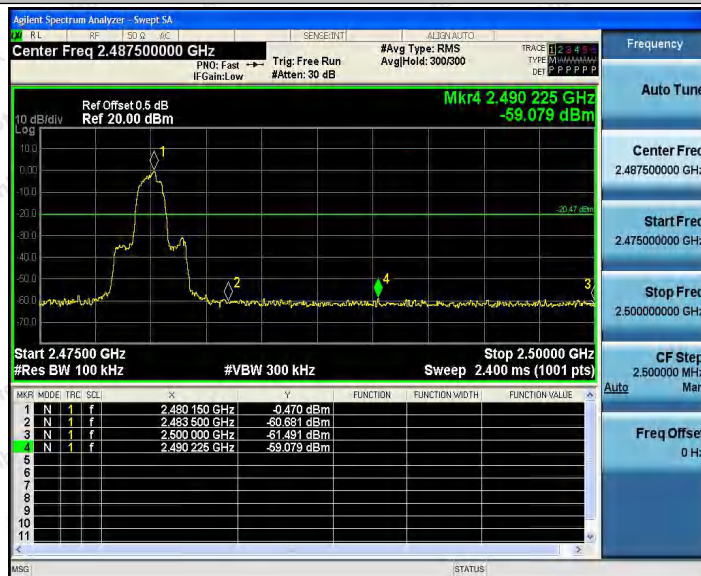
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3DH5\_Ant1\_Low\_2402



3DH5\_Ant1\_High\_2480



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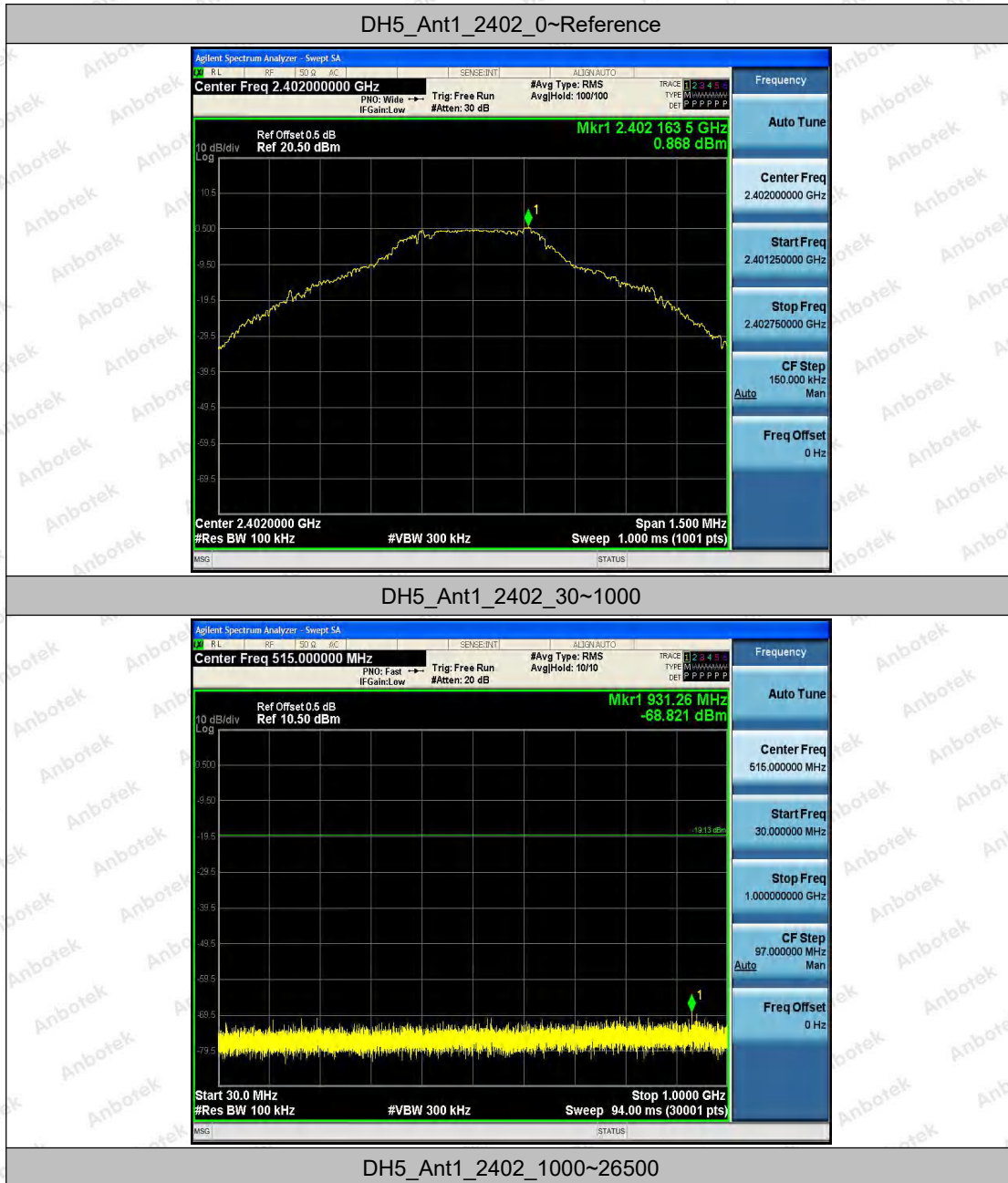
## Appendix H: Conducted Spurious Emission

### Test Result

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	0.87	0.87	---	PASS
			30~1000	0.87	-68.82	≤-19.13	PASS
			1000~26500	0.87	-55.32	≤-19.13	PASS
		2441	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-69.34	≤-19.66	PASS
			1000~26500	0.34	-55.08	≤-19.66	PASS
		2480	Reference	0.10	0.10	---	PASS
			30~1000	0.10	-69.57	≤-19.9	PASS
			1000~26500	0.10	-54.09	≤-19.9	PASS
2DH5	Ant1	2402	Reference	-0.43	-0.43	---	PASS
			30~1000	-0.43	-70.1	≤-20.43	PASS
			1000~26500	-0.43	-54.76	≤-20.43	PASS
		2441	Reference	-0.98	-0.98	---	PASS
			30~1000	-0.98	-69.32	≤-20.98	PASS
			1000~26500	-0.98	-54.9	≤-20.98	PASS
		2480	Reference	-1.18	-1.18	---	PASS
			30~1000	-1.18	-69.46	≤-21.18	PASS
			1000~26500	-1.18	-55.01	≤-21.18	PASS
3DH5	Ant1	2402	Reference	-0.29	-0.29	---	PASS
			30~1000	-0.29	-70.11	≤-20.29	PASS
			1000~26500	-0.29	-54.63	≤-20.29	PASS
		2441	Reference	-0.76	-0.76	---	PASS
			30~1000	-0.76	-69.27	≤-20.76	PASS
			1000~26500	-0.76	-55.02	≤-20.76	PASS
		2480	Reference	-1.22	-1.22	---	PASS
			30~1000	-1.22	-70.03	≤-21.22	PASS
			1000~26500	-1.22	-54.46	≤-21.22	PASS



## Test Graphs

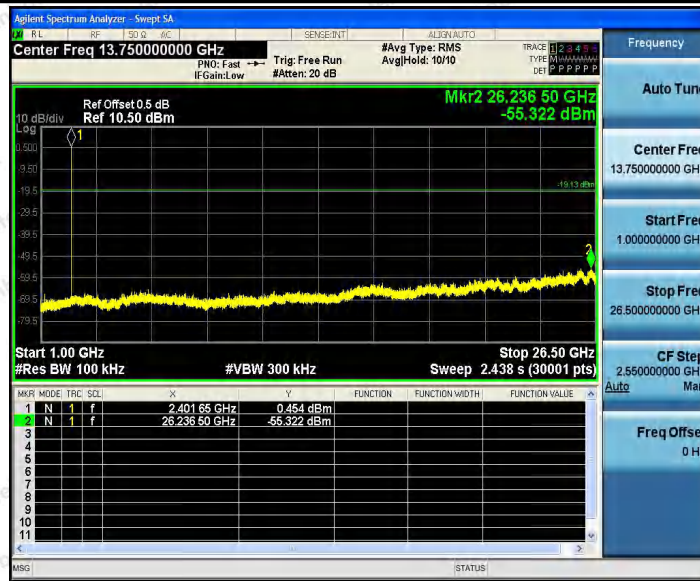


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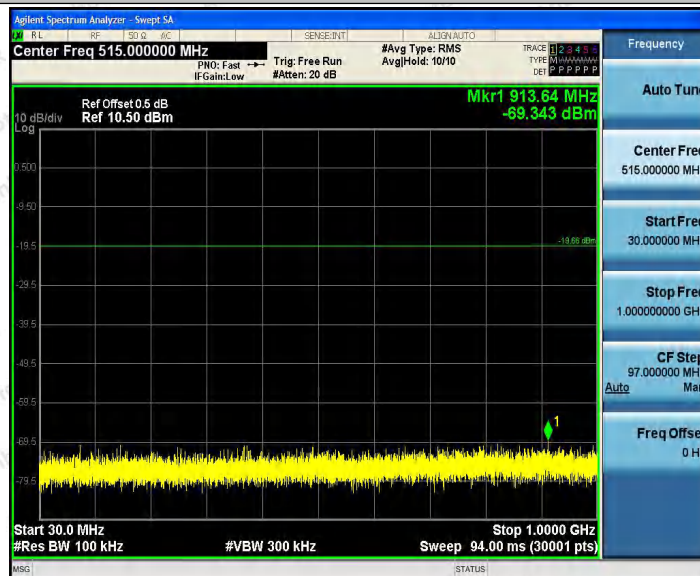
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DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000



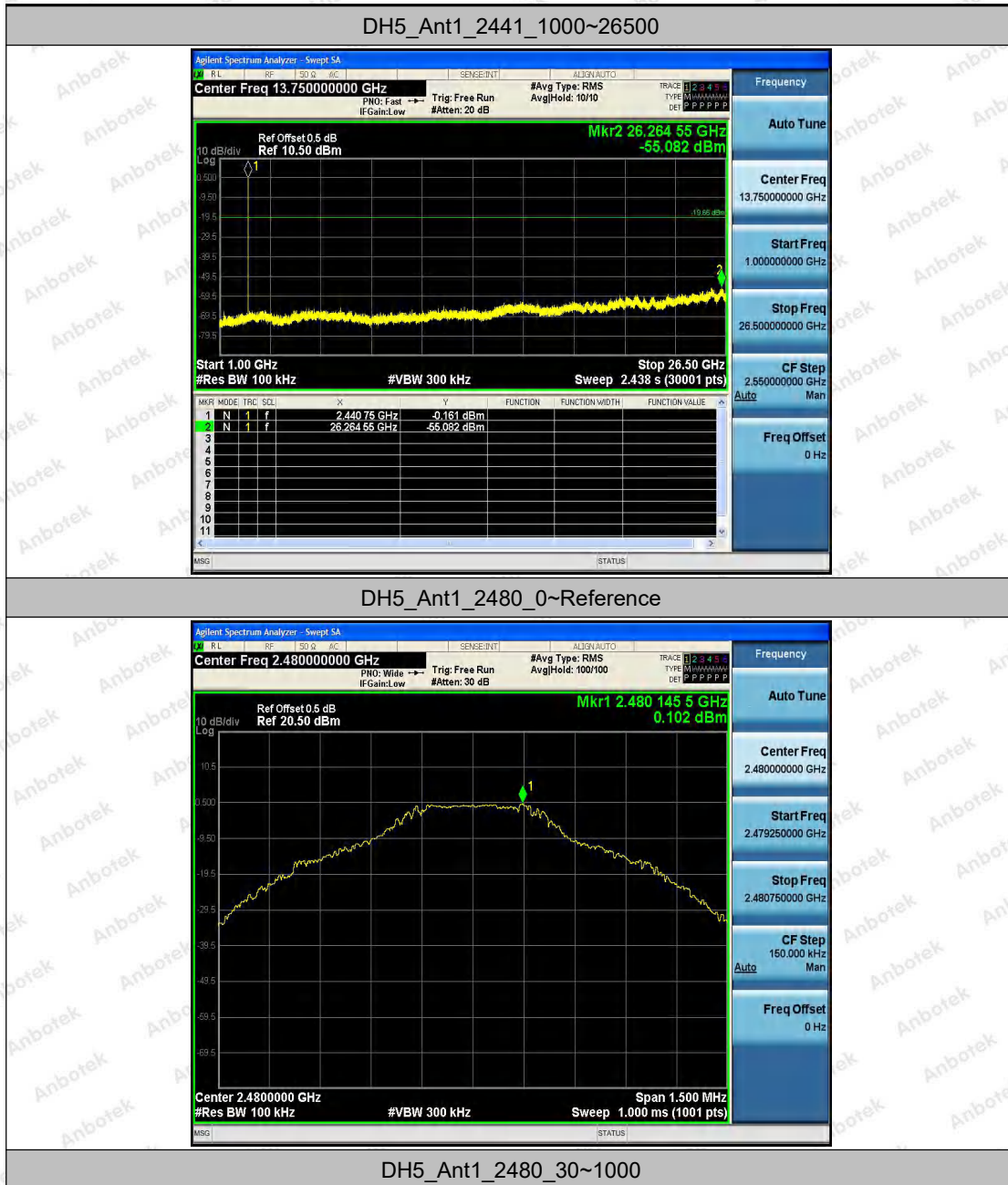
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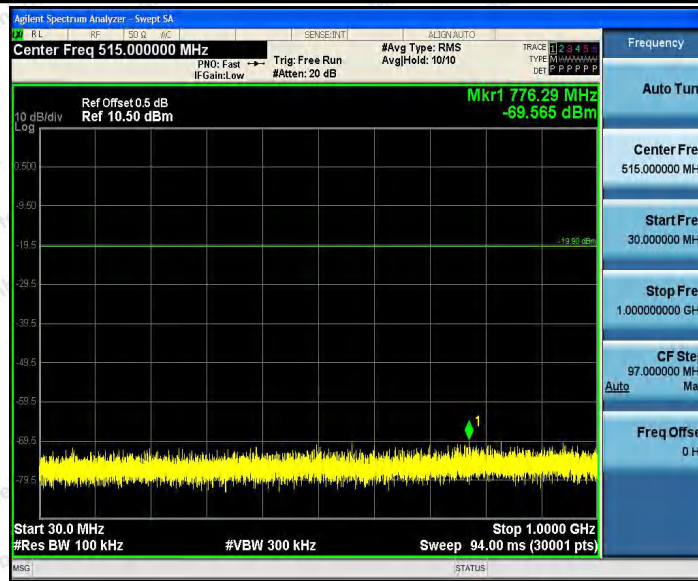


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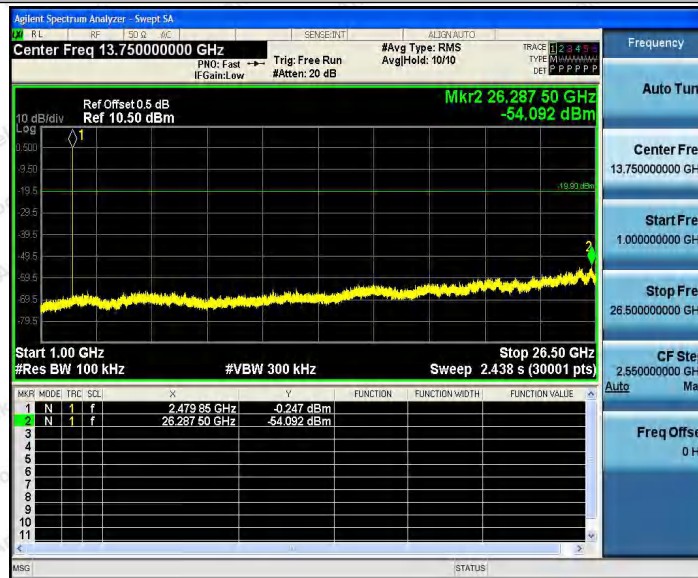
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DH5\_Ant1\_2480\_1000~26500



2DH5\_Ant1\_2402\_0~Reference



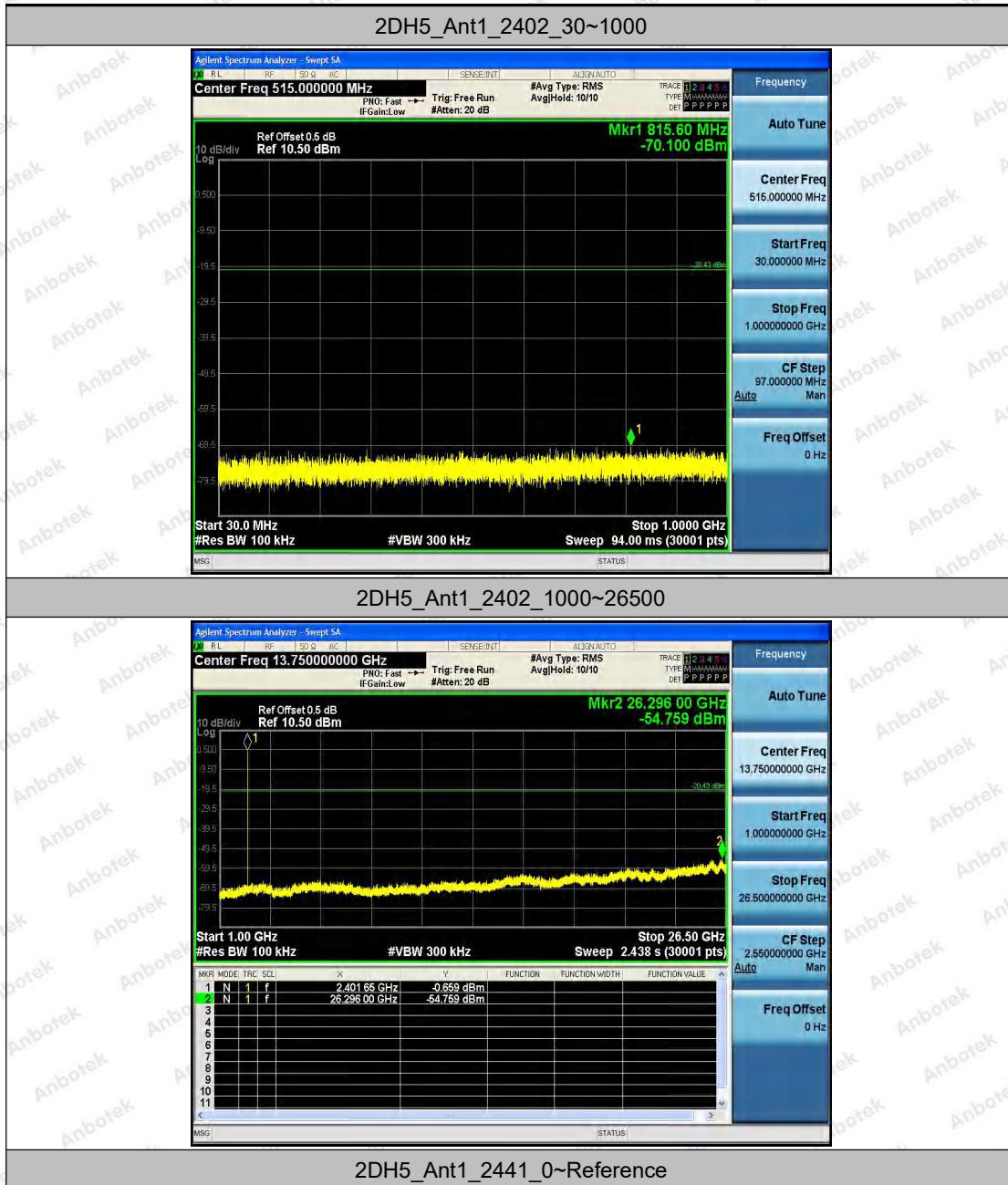
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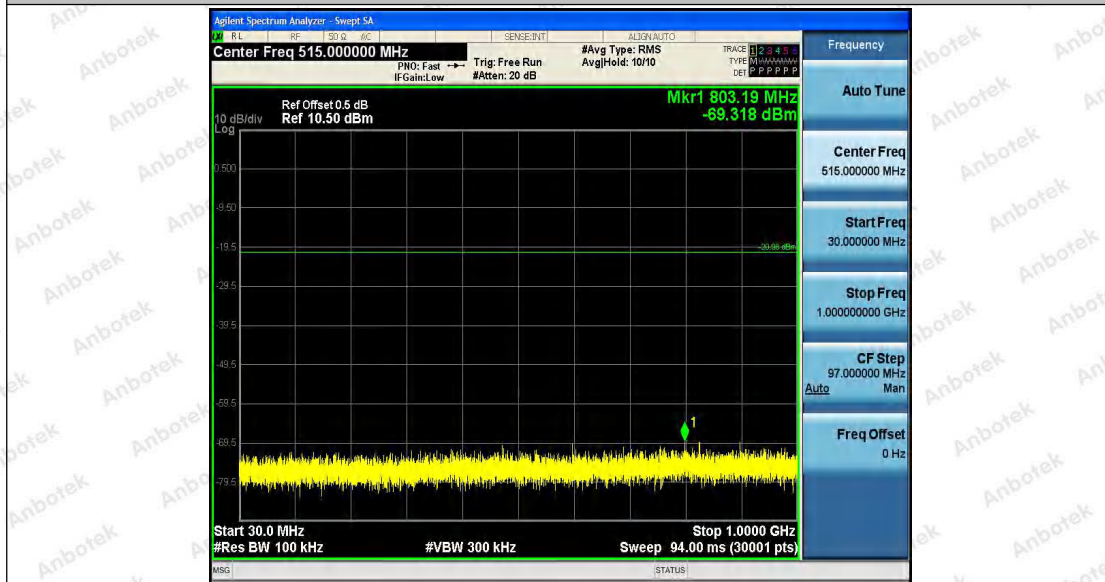
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

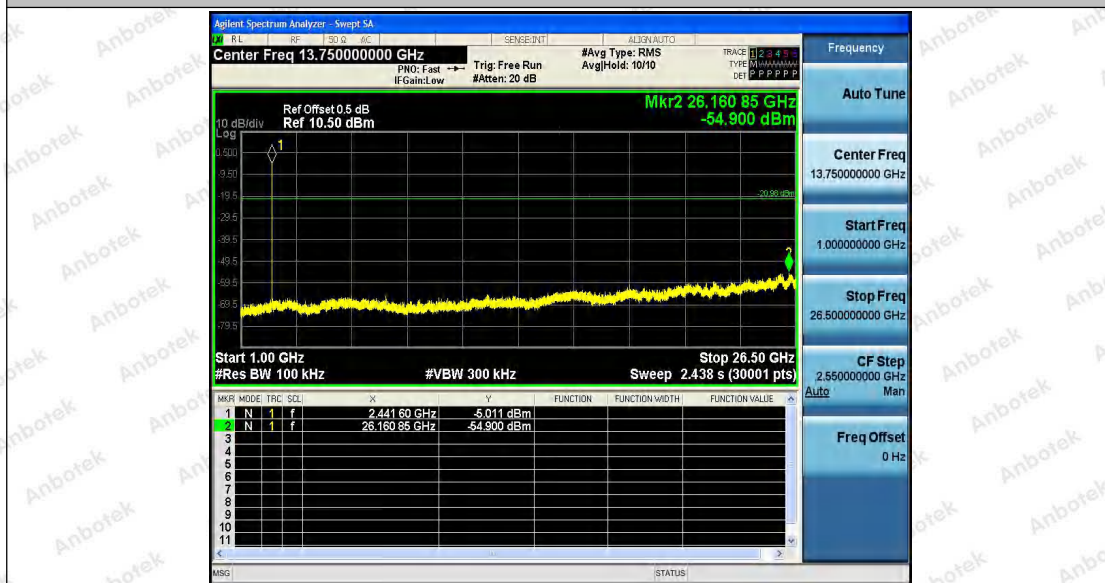
Hotline  
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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



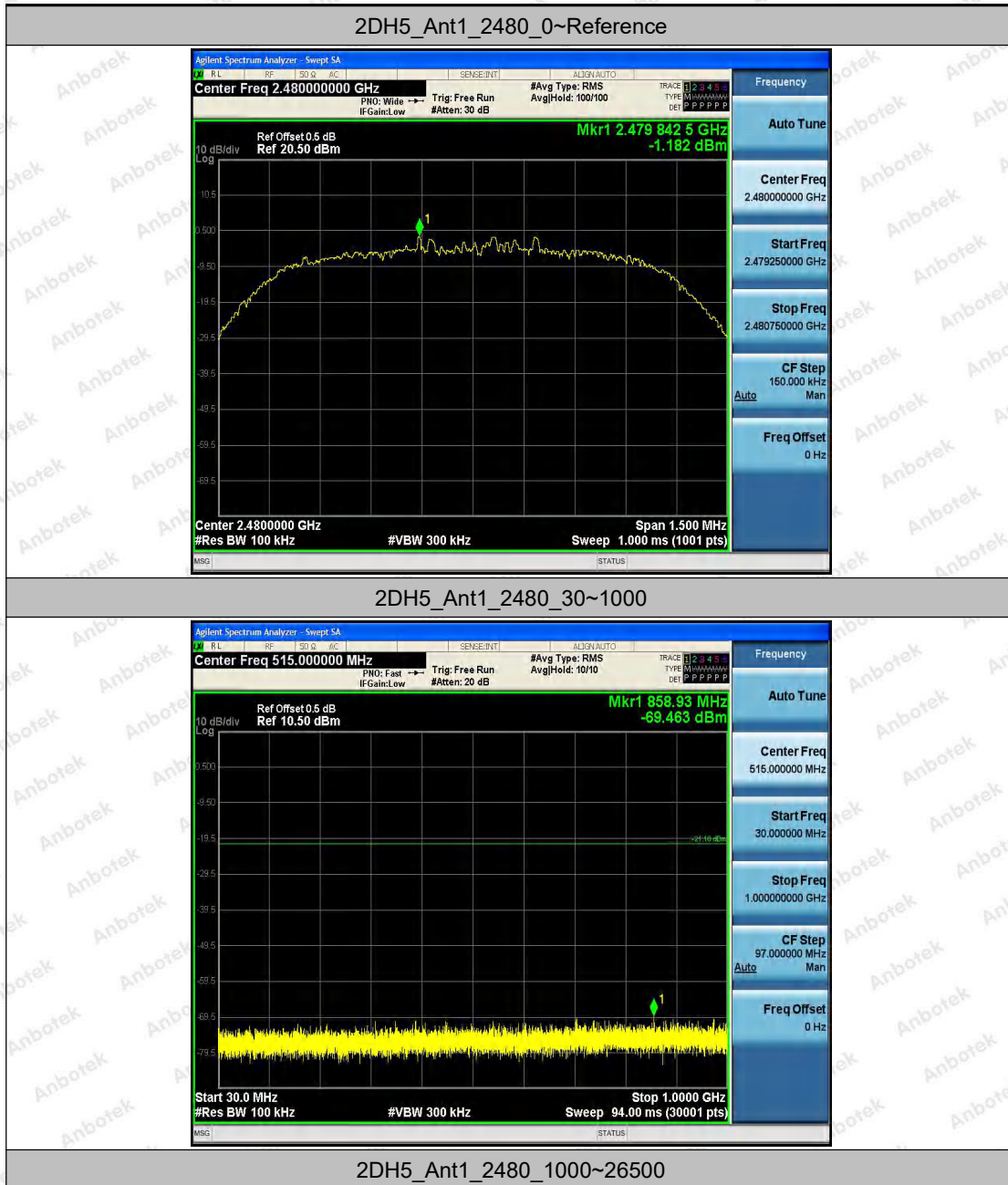
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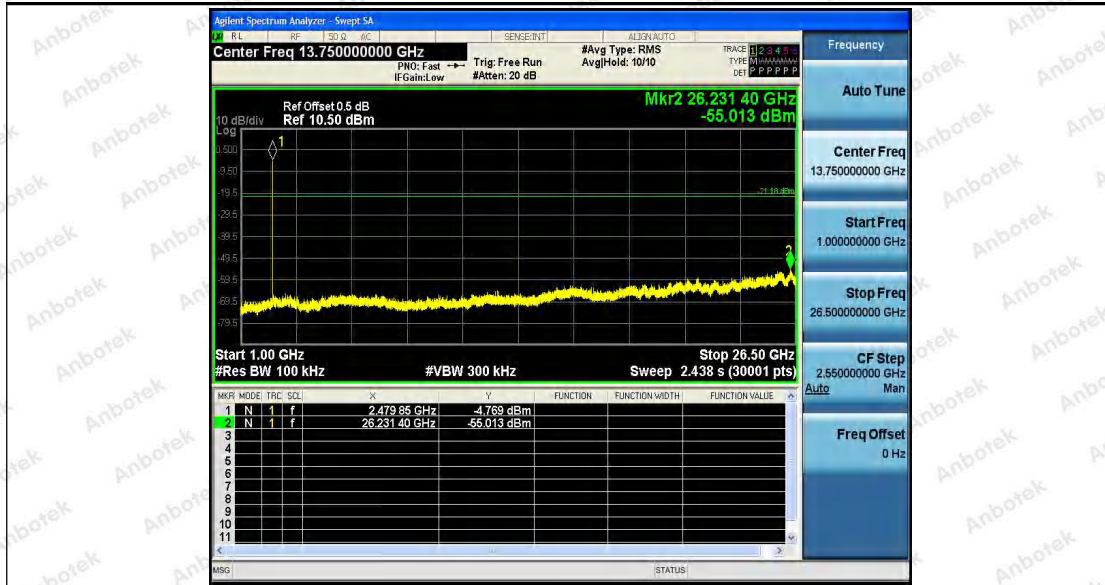




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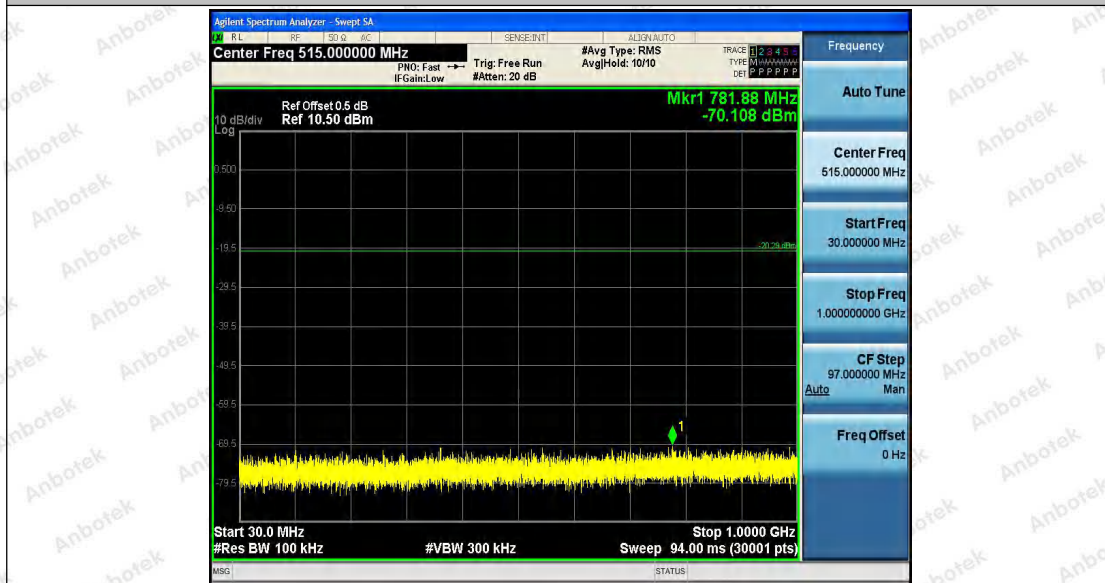
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3DH5\_Ant1\_2402\_0~Reference



3DH5\_Ant1\_2402\_30~1000



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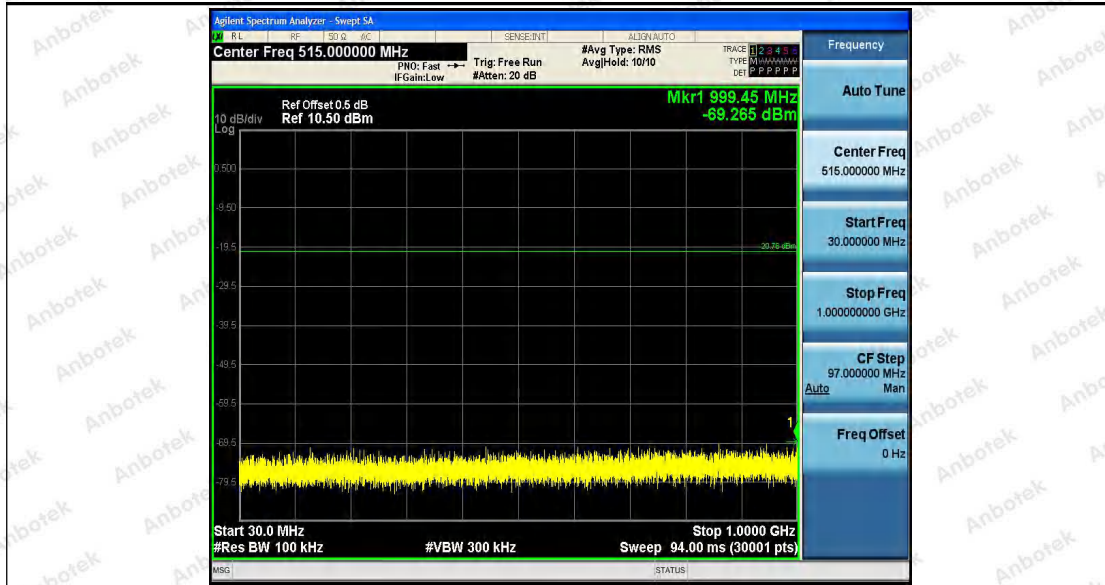


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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference



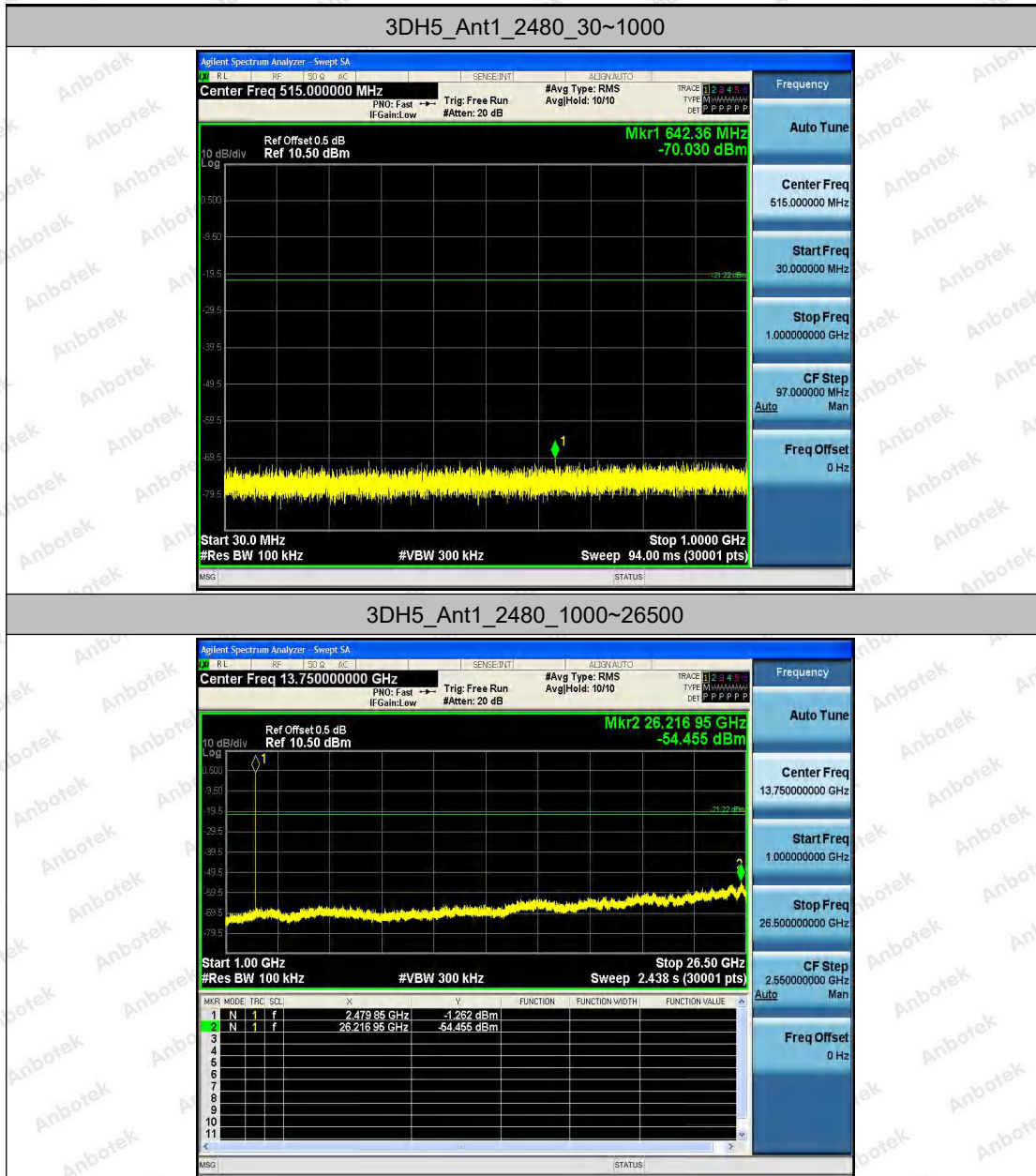
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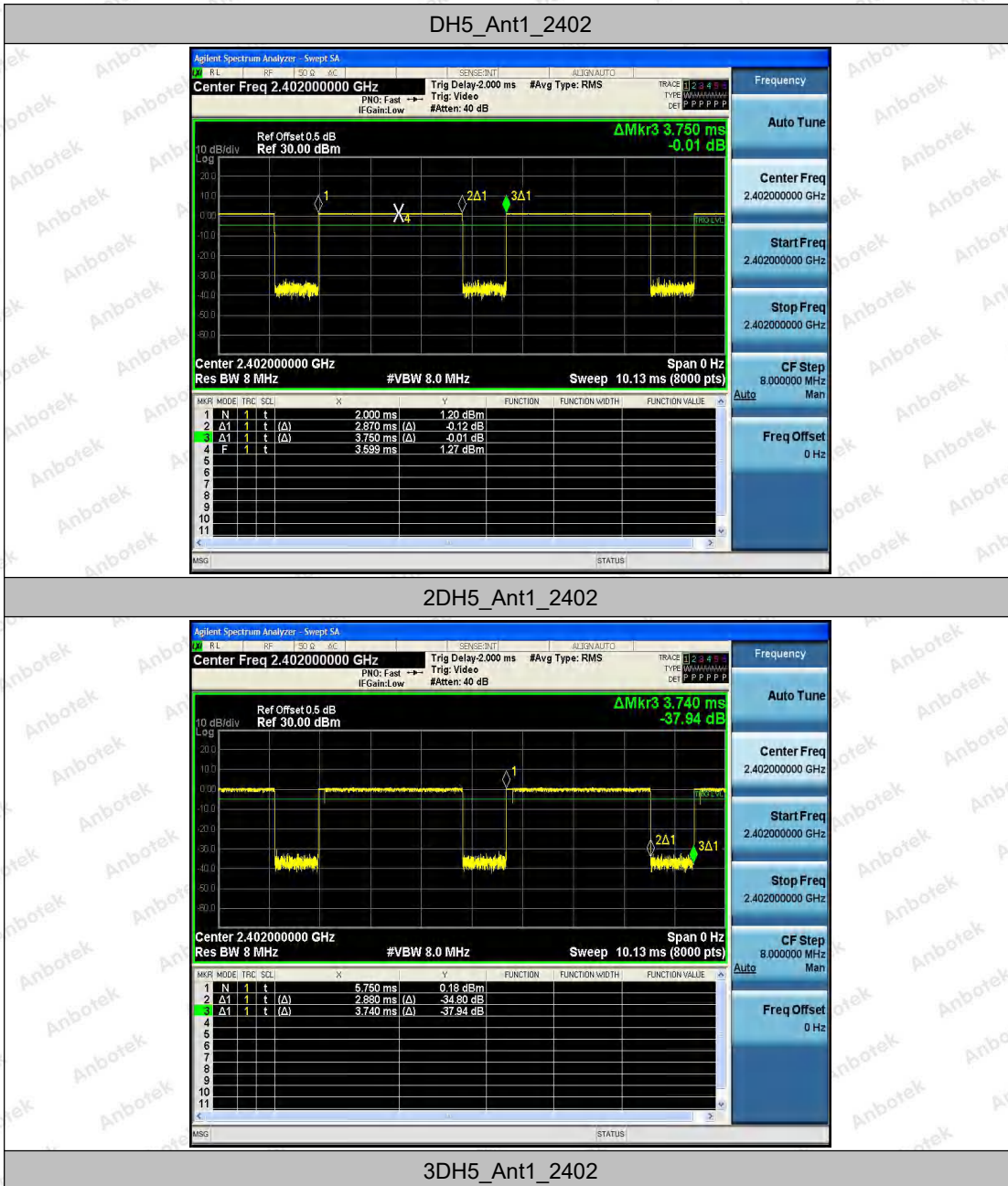
## Appendix I: Duty Cycle

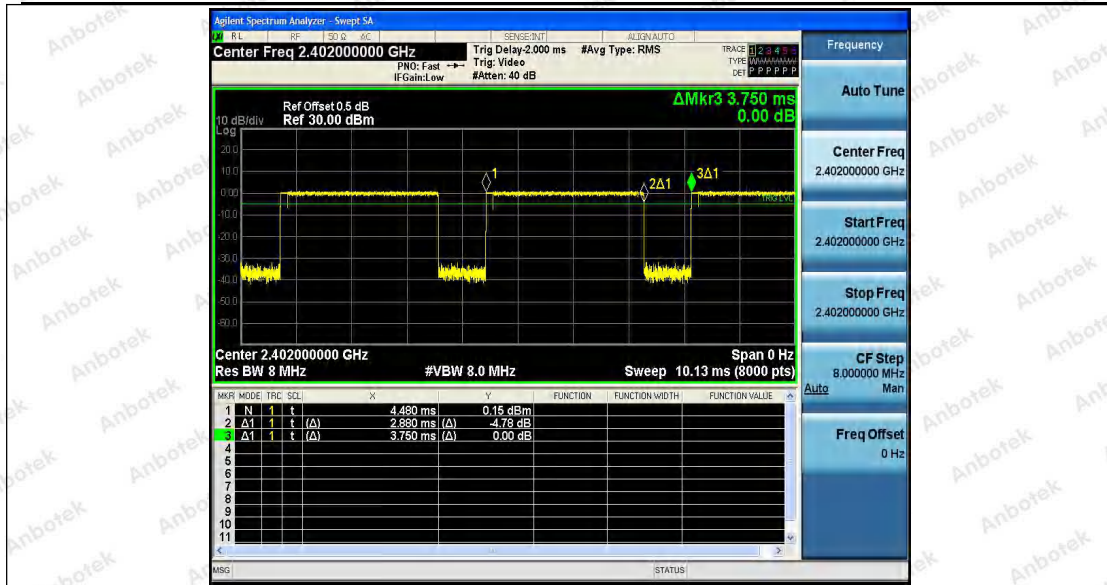
### Test Result

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	3.74	0.770 1	77.01	1.13	---	PASS
3DH5	Ant1	2402	2.88	3.75	0.768 0	76.80	1.15	---	PASS



## Test Graphs





---End---