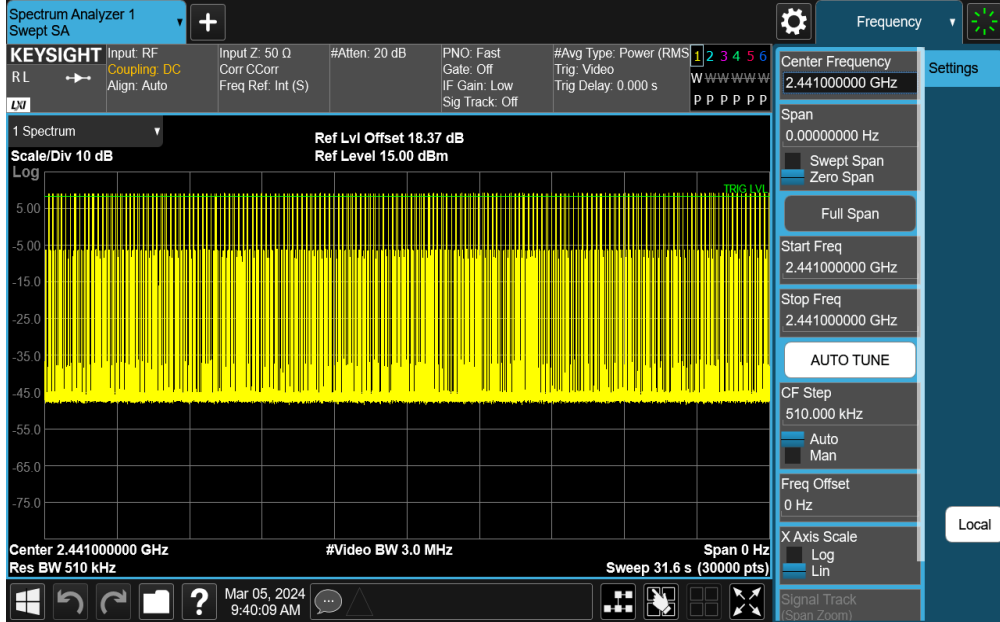
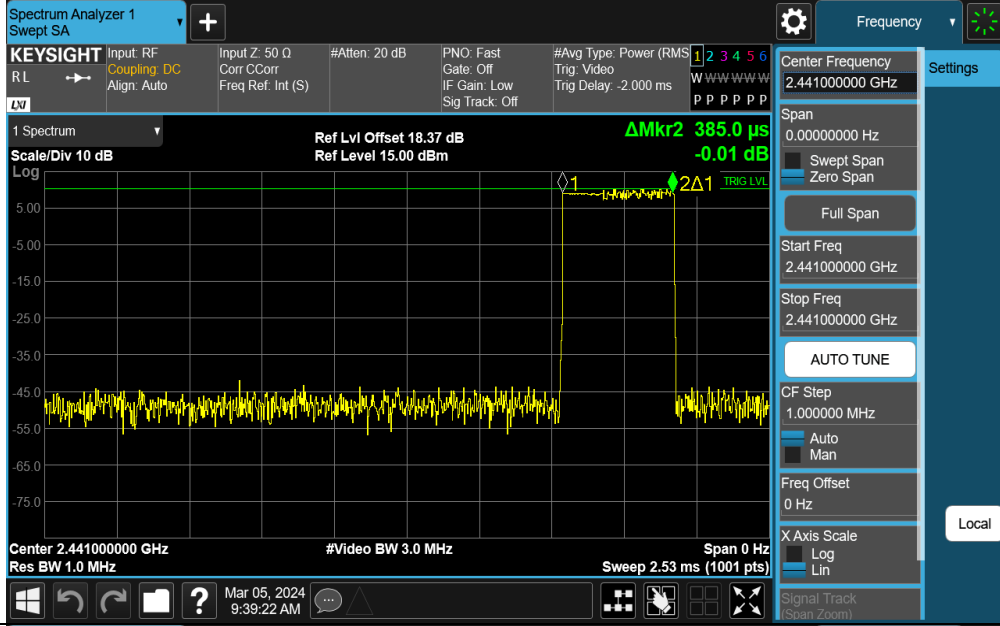
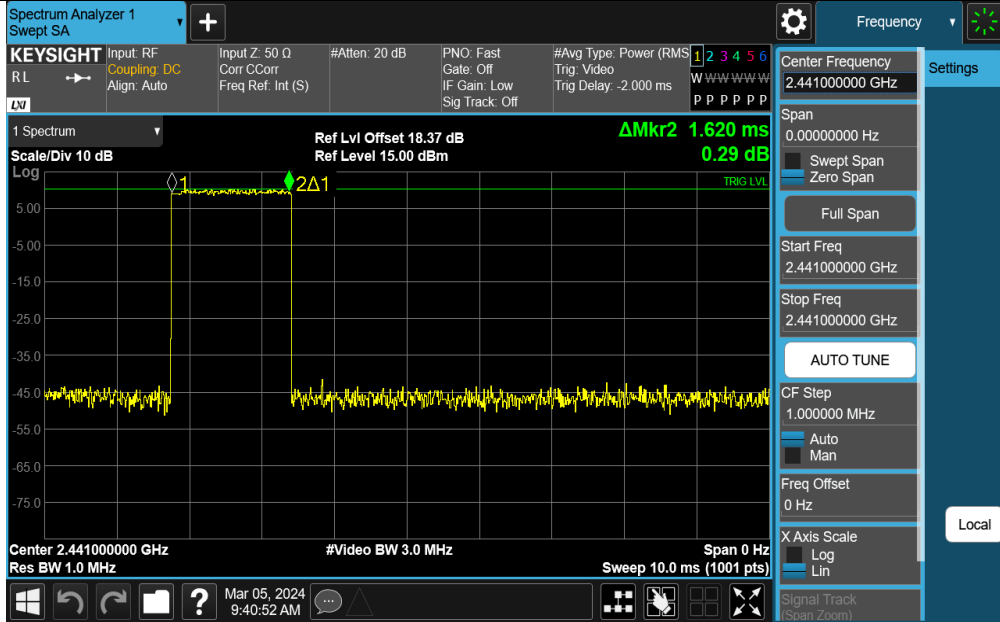
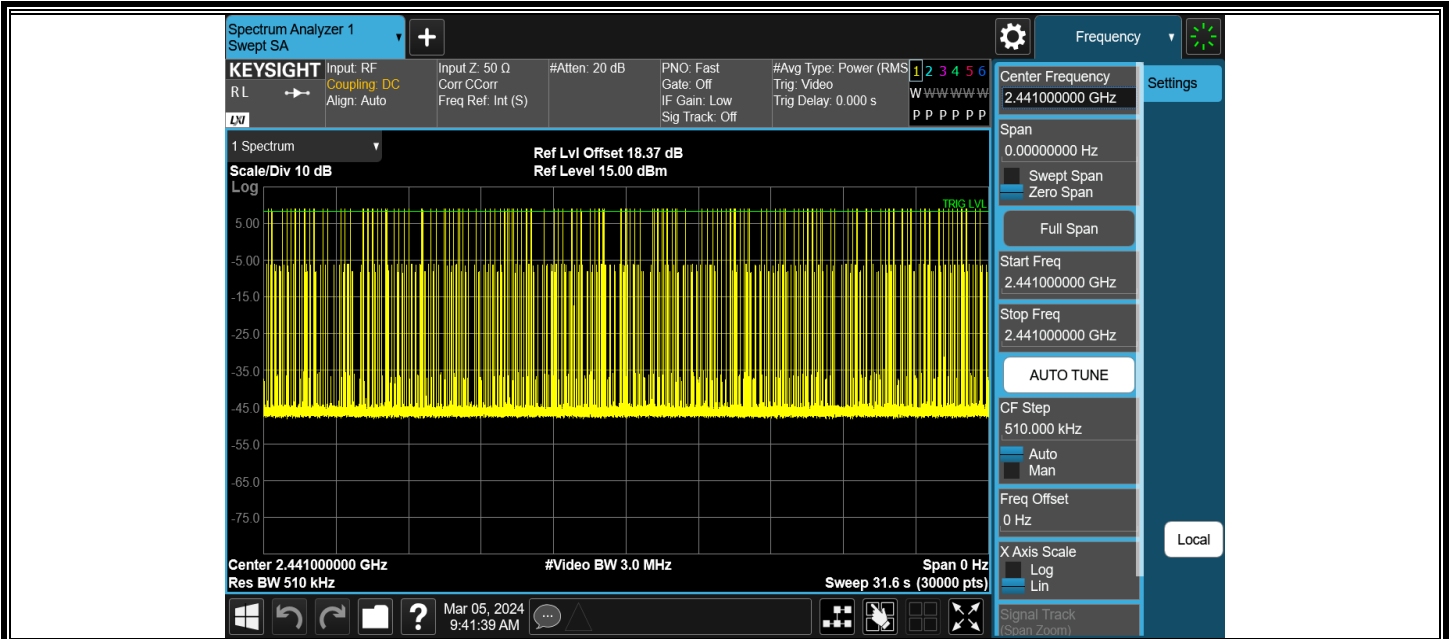


### 3DH1-Ant1-Hop-PASS

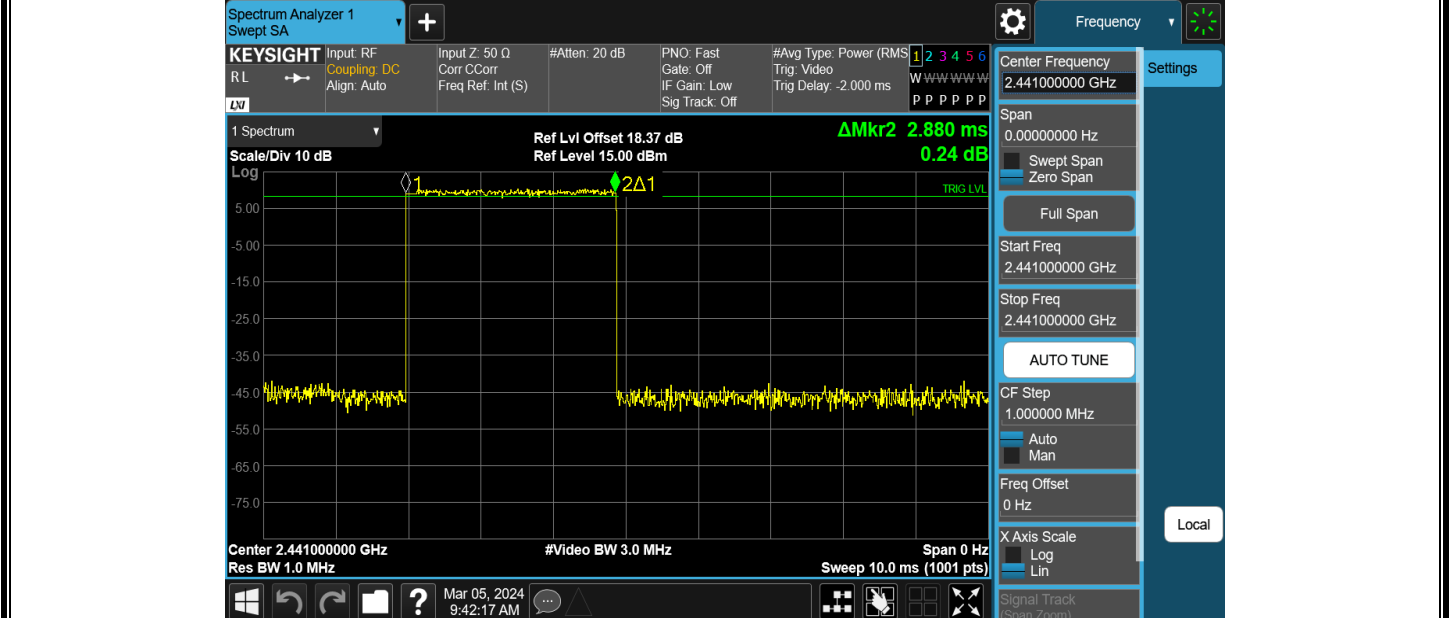


### 3DH3-Ant1-Hop-PASS





3DH5-Ant1-Hop-PASS



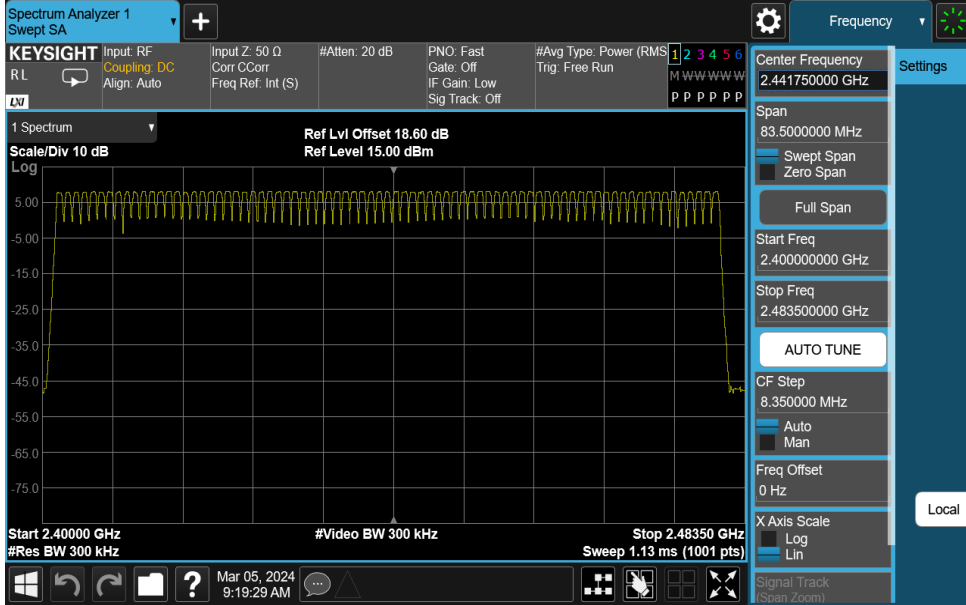
## Appendix E: Number of hopping channels

## Test Result

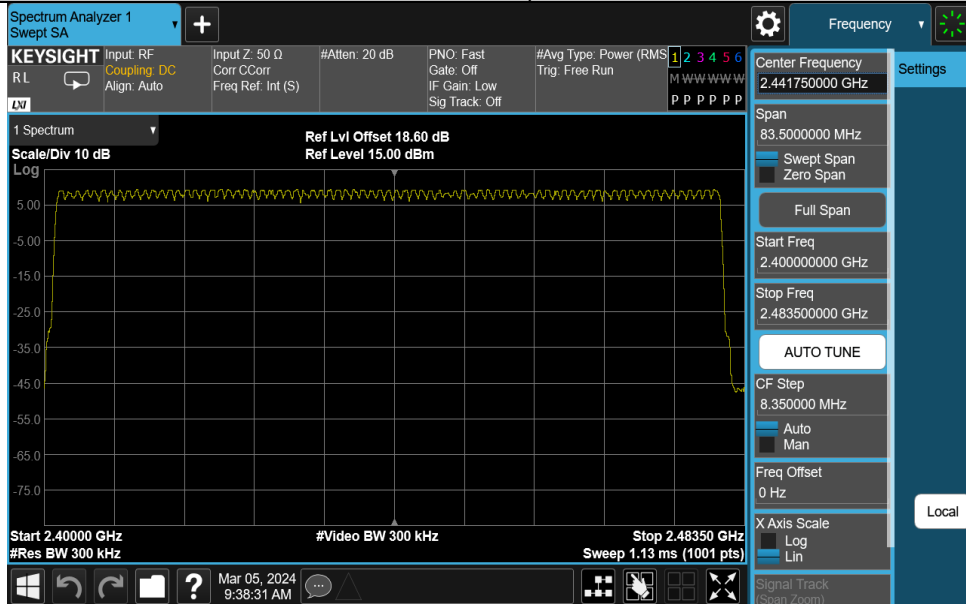
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	$\geq 15$	PASS
2DH5	Ant1	Hop	79	$\geq 15$	PASS
3DH5	Ant1	Hop	79	$\geq 15$	PASS

### Test Graphs

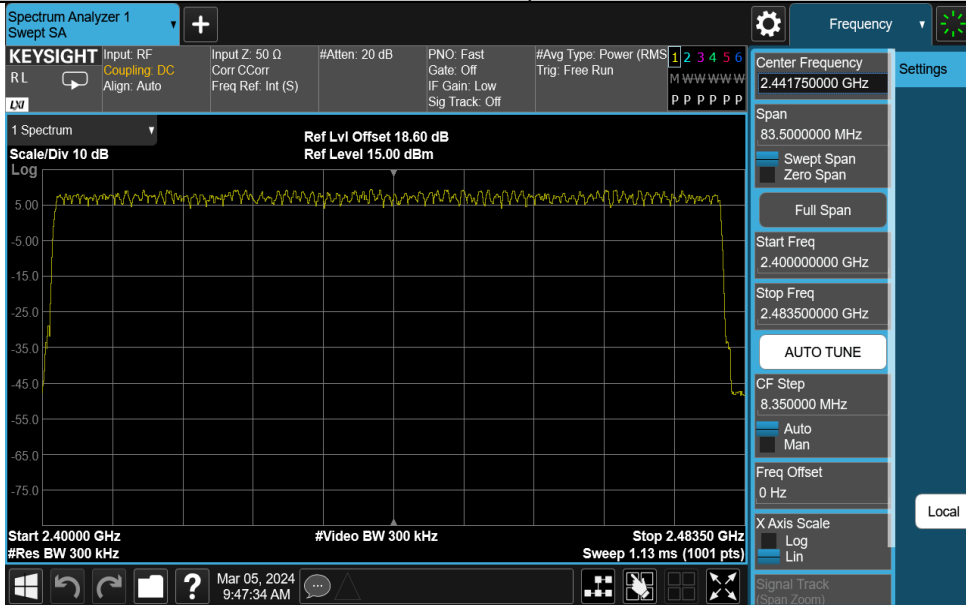
#### DH5-Ant1-Hop-PASS



#### 2DH5-Ant1-Hop-PASS



#### 3DH5-Ant1-Hop-PASS



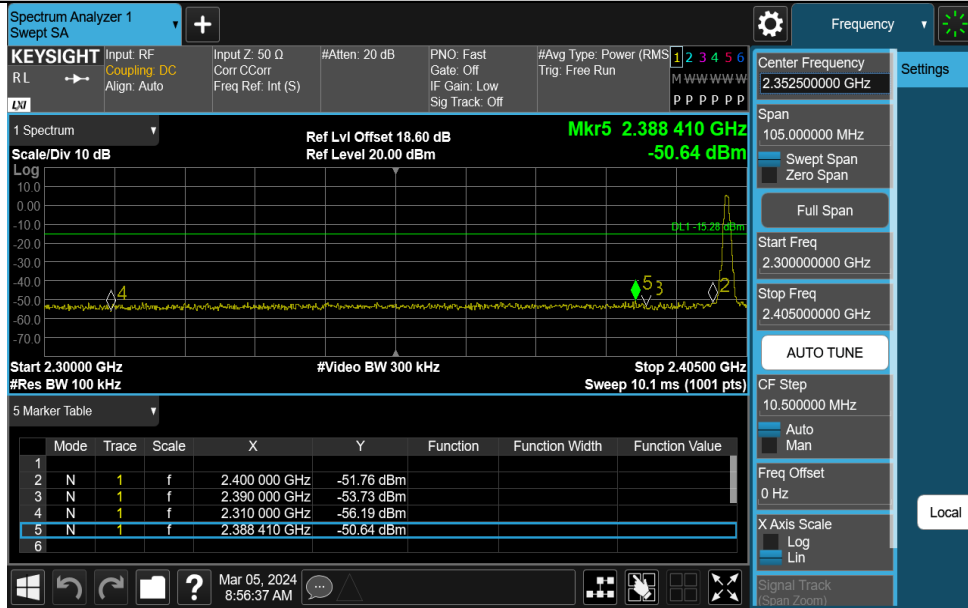
## Appendix F: Band edge measurements

## Test Result

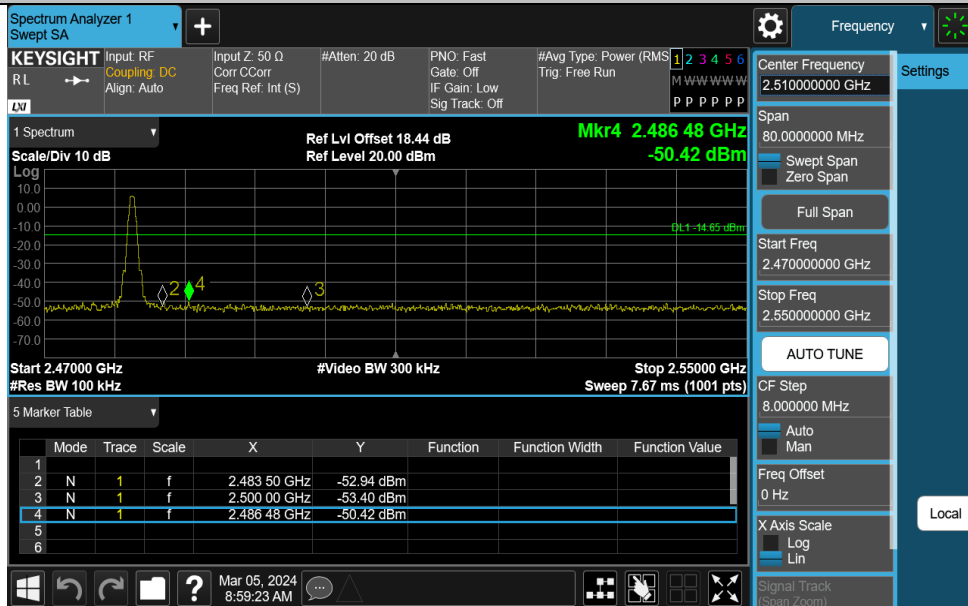
Test Mode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.72	-50.64	≤-15.28	PASS
DH5	Ant1	High	2480	5.35	-50.42	≤-14.65	PASS
DH5	Ant1	Low	Hop_2402	7.14	-50.72	≤-12.86	PASS
DH5	Ant1	High	Hop_2480	7.76	-50.29	≤-12.24	PASS
2DH5	Ant1	Low	2402	4.25	-49.66	≤-15.75	PASS
2DH5	Ant1	High	2480	4.45	-49.41	≤-15.55	PASS
2DH5	Ant1	Low	Hop_2402	5.89	-50.25	≤-14.11	PASS
2DH5	Ant1	High	Hop_2480	8.81	-50.32	≤-11.19	PASS
3DH5	Ant1	Low	2402	4.30	-50.25	≤-15.7	PASS
3DH5	Ant1	High	2480	4.39	-50.33	≤-15.61	PASS
3DH5	Ant1	Low	Hop_2402	7.04	-49.9	≤-12.96	PASS
3DH5	Ant1	High	Hop_2480	7.52	-49.36	≤-12.48	PASS

### Test Graphs

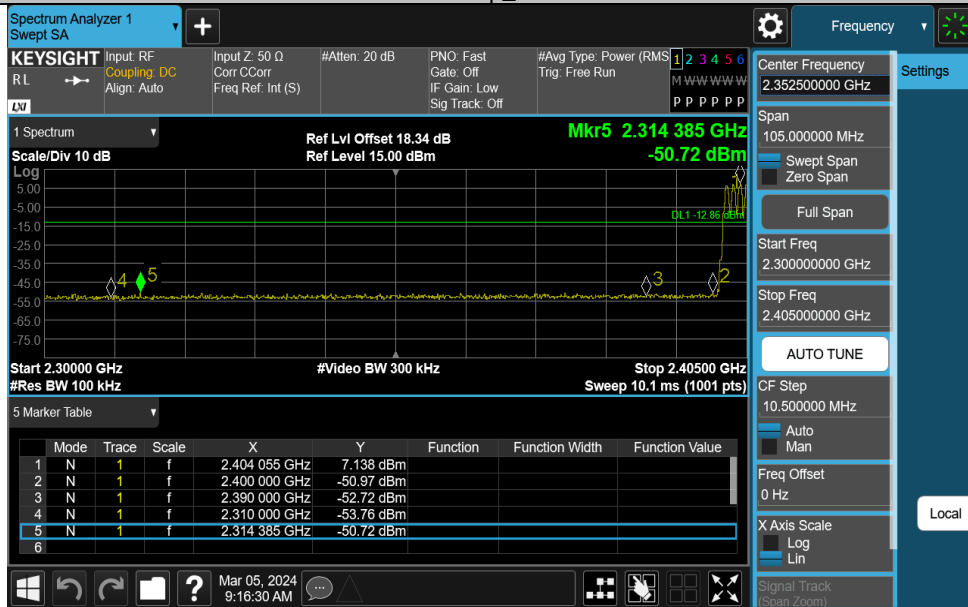
#### DH5-Ant1-2402-PASS



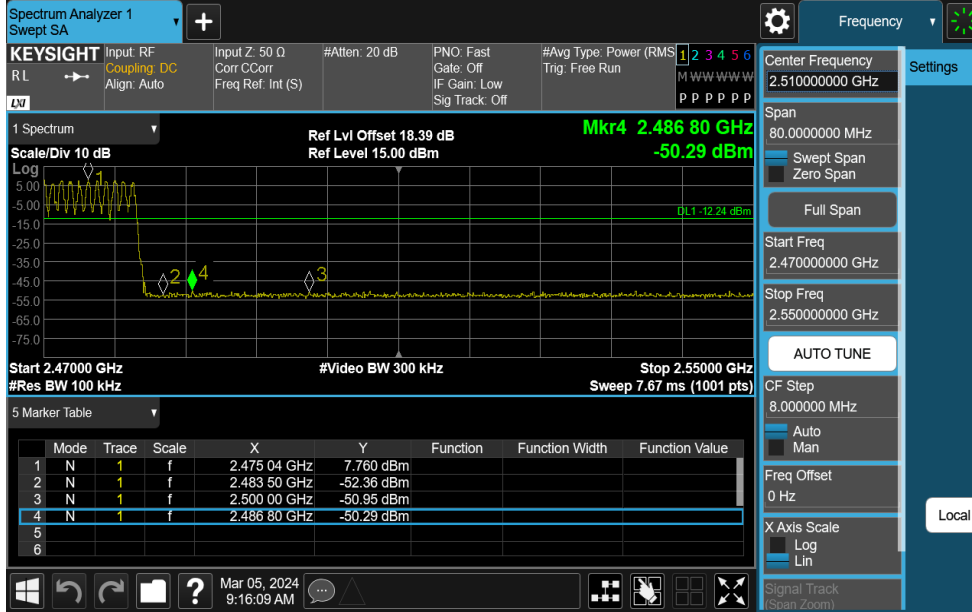
#### DH5-Ant1-2480-PASS



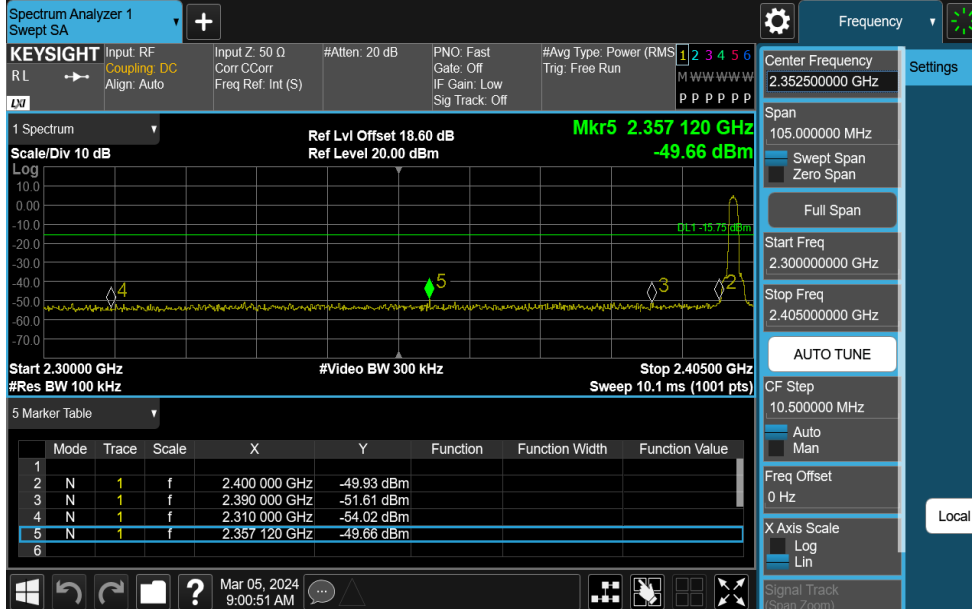
#### DH5-Ant1-Hop\_2402-PASS



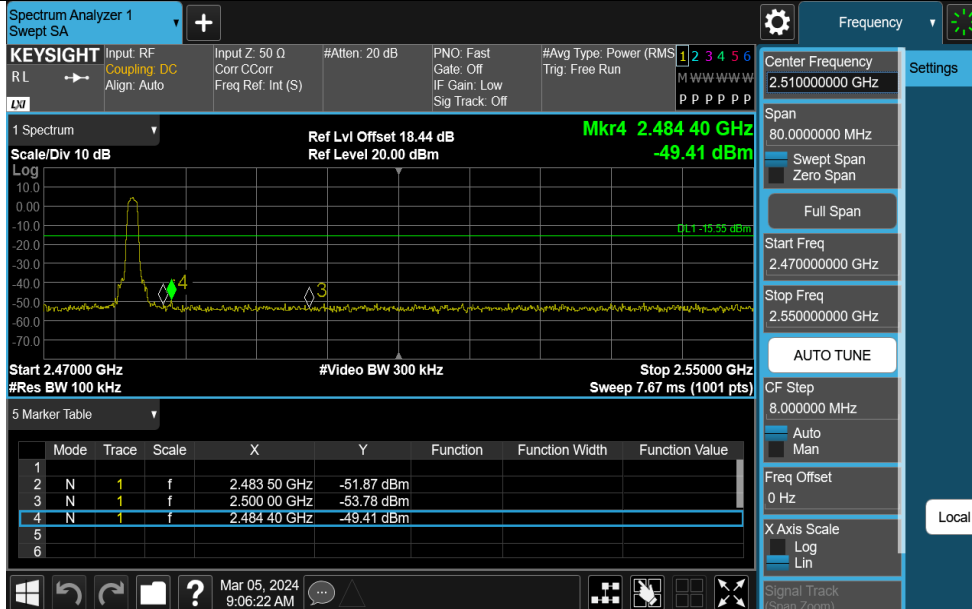
### DH5-Ant1-Hop\_2480-PASS



### 2DH5-Ant1-2402-PASS



### 2DH5-Ant1-2480-PASS



### 2DH5-Ant1-Hop\_2402-PASS

Spectrum Analyzer 1 Swept SA

**KEYSIGHT** Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 20 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Trig: Free Run

Center Frequency: 2.352500000 GHz

Span: 105.000000 MHz

Scale/Div: 10 dB

Ref Lvl Offset: 18.34 dB

Ref Level: 15.00 dBm

Mkr5: 2.391 770 GHz

-50.25 dBm

Start: 2.30000 GHz

Stop: 2.40500 GHz

#Res BW: 100 kHz

#Video BW: 300 kHz

Sweep: 10.1 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.405 000 GHz	5.891 dBm		
2	N	1	f	2.400 000 GHz	-51.96 dBm		
3	N	1	f	2.390 000 GHz	-51.89 dBm		
4	N	1	f	2.310 000 GHz	-52.77 dBm		
5	N	1	f	2.391 770 GHz	-50.25 dBm		
6							

Mar 05, 2024 9:32:08 AM

### 2DH5-Ant1-Hop\_2480-PASS

Spectrum Analyzer 1 Swept SA

**KEYSIGHT** Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 20 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Trig: Free Run

Center Frequency: 2.510000000 GHz

Span: 80.000000 MHz

Scale/Div: 10 dB

Ref Lvl Offset: 18.39 dB

Ref Level: 15.00 dBm

Mkr4: 2.509 20 GHz

-50.32 dBm

Start: 2.47000 GHz

Stop: 2.55000 GHz

#Res BW: 100 kHz

#Video BW: 300 kHz

Sweep: 7.67 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.478 00 GHz	8.809 dBm		
2	N	1	f	2.483 50 GHz	-52.56 dBm		
3	N	1	f	2.500 00 GHz	-51.99 dBm		
4	N	1	f	2.509 20 GHz	-50.32 dBm		
5							
6							

Mar 05, 2024 9:31:41 AM

### 3DH5-Ant1-2402-PASS

Spectrum Analyzer 1 Swept SA

**KEYSIGHT** Input: RF Coupling: DC Align: Auto Input Z: 50 Ω Corr: C Corr Freq Ref: Int (S) #Atten: 20 dB PNO: Fast Gate: Off IF Gain: Low Sig Track: Off #Avg Type: Power (RMS) Trig: Free Run

Center Frequency: 2.352500000 GHz

Span: 105.000000 MHz

Scale/Div: 10 dB

Ref Lvl Offset: 18.60 dB

Ref Level: 20.00 dBm

Mkr5: 2.399 855 GHz

-50.25 dBm

Start: 2.30000 GHz

Stop: 2.40500 GHz

#Res BW: 100 kHz

#Video BW: 300 kHz

Sweep: 10.1 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1							
2	N	1	f	2.400 000 GHz	-50.86 dBm		
3	N	1	f	2.390 000 GHz	-54.63 dBm		
4	N	1	f	2.310 000 GHz	-55.59 dBm		
5	N	1	f	2.399 855 GHz	-50.25 dBm		
6							

Mar 05, 2024 9:07:56 AM



### 3DH5-Ant1-2480-PASS

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 20 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6  
 RL Coupling: DC Corr C/Corr Freq Ref: Int (S) Gate: Off IF Gain: Low Trig: Free Run  
 Align: Auto Freq Ref: Int (S) Sig Track: Off

Center Frequency: 2.510000000 GHz

Scale/Div 10 dB Ref Lvl Offset 18.44 dB Mkr4 2.503 76 GHz  
 Ref Level 20.00 dB -50.33 dBm

Start 2.47000 GHz #Video BW 300 kHz Stop 2.55000 GHz  
 #Res BW 100 kHz Sweep 7.67 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.483 50 GHz	-52.00 dBm		
2	N	1	f	2.500 00 GHz	-53.93 dBm		
3	N	1	f	2.503 76 GHz	-50.33 dBm		
4	N	1	f	2.503 76 GHz	-50.33 dBm		
5	N	1	f				
6	N	1	f				

Mar 05, 2024 9:10:57 AM

### 3DH5-Ant1-Hop\_2402-PASS

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 20 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6  
 RL Coupling: DC Corr C/Corr Freq Ref: Int (S) Gate: Off IF Gain: Low Trig: Free Run  
 Align: Auto Freq Ref: Int (S) Sig Track: Off

Center Frequency: 2.352500000 GHz

Scale/Div 10 dB Ref Lvl Offset 18.34 dB Mkr5 2.399 750 GHz  
 Ref Level 15.00 dB -49.90 dBm

Start 2.30000 GHz #Video BW 300 kHz Stop 2.40500 GHz  
 #Res BW 100 kHz Sweep 10.1 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.404 160 GHz	7.044 dBm		
2	N	1	f	2.400 000 GHz	-51.85 dBm		
3	N	1	f	2.390 000 GHz	-53.38 dBm		
4	N	1	f	2.310 000 GHz	-52.80 dBm		
5	N	1	f	2.399 750 GHz	-49.90 dBm		
6	N	1	f				

Mar 05, 2024 9:44:09 AM

### 3DH5-Ant1-Hop\_2480-PASS

Spectrum Analyzer 1 Swept SA

KEYSIGHT Input: RF Input Z: 50 Ω #Atten: 20 dB PNO: Fast #Avg Type: Power (RMS) 1 2 3 4 5 6  
 RL Coupling: DC Corr C/Corr Freq Ref: Int (S) Gate: Off IF Gain: Low Trig: Free Run  
 Align: Auto Freq Ref: Int (S) Sig Track: Off

Center Frequency: 2.510000000 GHz

Scale/Div 10 dB Ref Lvl Offset 18.39 dB Mkr4 2.530 24 GHz  
 Ref Level 15.00 dB -49.36 dBm

Start 2.47000 GHz #Video BW 300 kHz Stop 2.55000 GHz  
 #Res BW 100 kHz Sweep 7.67 ms (1001 pts)

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.474 00 GHz	7.524 dBm		
2	N	1	f	2.483 50 GHz	-53.25 dBm		
3	N	1	f	2.500 00 GHz	-52.33 dBm		
4	N	1	f	2.530 24 GHz	-49.36 dBm		
5	N	1	f				
6	N	1	f				

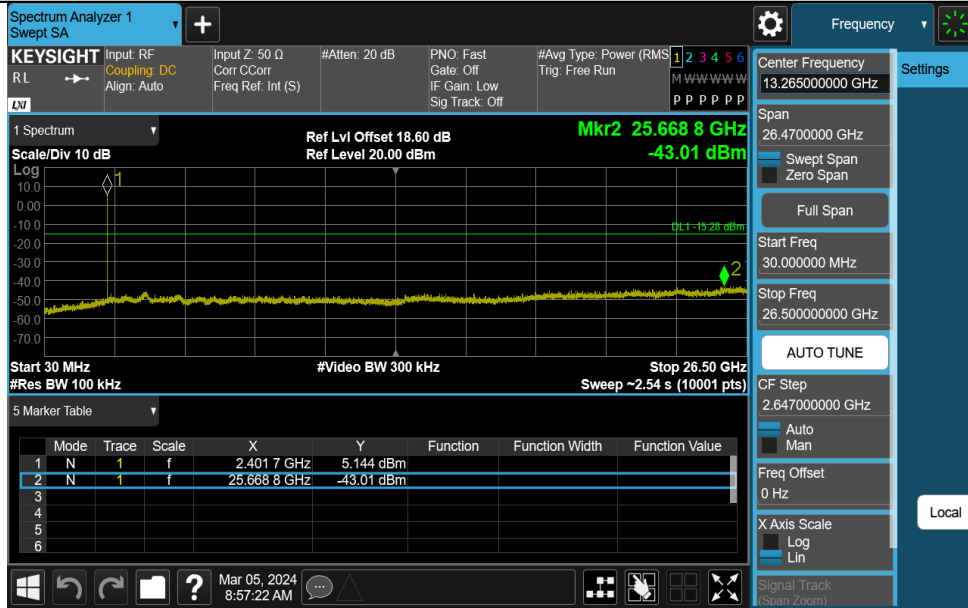
Mar 05, 2024 9:43:47 AM

## Appendix G: Conducted Spurious Emission Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~26500	4.72	-43.01	≤-15.28	PASS
DH5	Ant1	2441	30~26500	5.27	-42.65	≤-14.73	PASS
DH5	Ant1	2480	30~26500	5.35	-42.18	≤-14.65	PASS
2DH5	Ant1	2402	30~26500	4.25	-42.95	≤-15.75	PASS
2DH5	Ant1	2441	30~26500	4.45	-42.36	≤-15.55	PASS
2DH5	Ant1	2480	30~26500	4.45	-42.95	≤-15.55	PASS
3DH5	Ant1	2402	30~26500	4.30	-42.48	≤-15.7	PASS
3DH5	Ant1	2441	30~26500	4.27	-42.67	≤-15.73	PASS
3DH5	Ant1	2480	30~26500	4.39	-42.87	≤-15.61	PASS

### Test Graphs

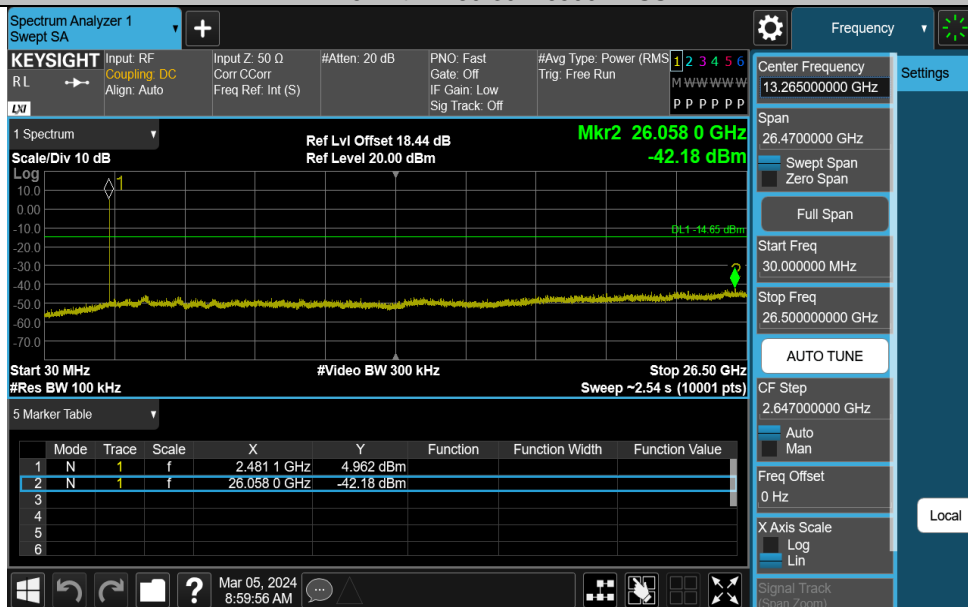
#### DH5-Ant1-2402-30~26500-PASS

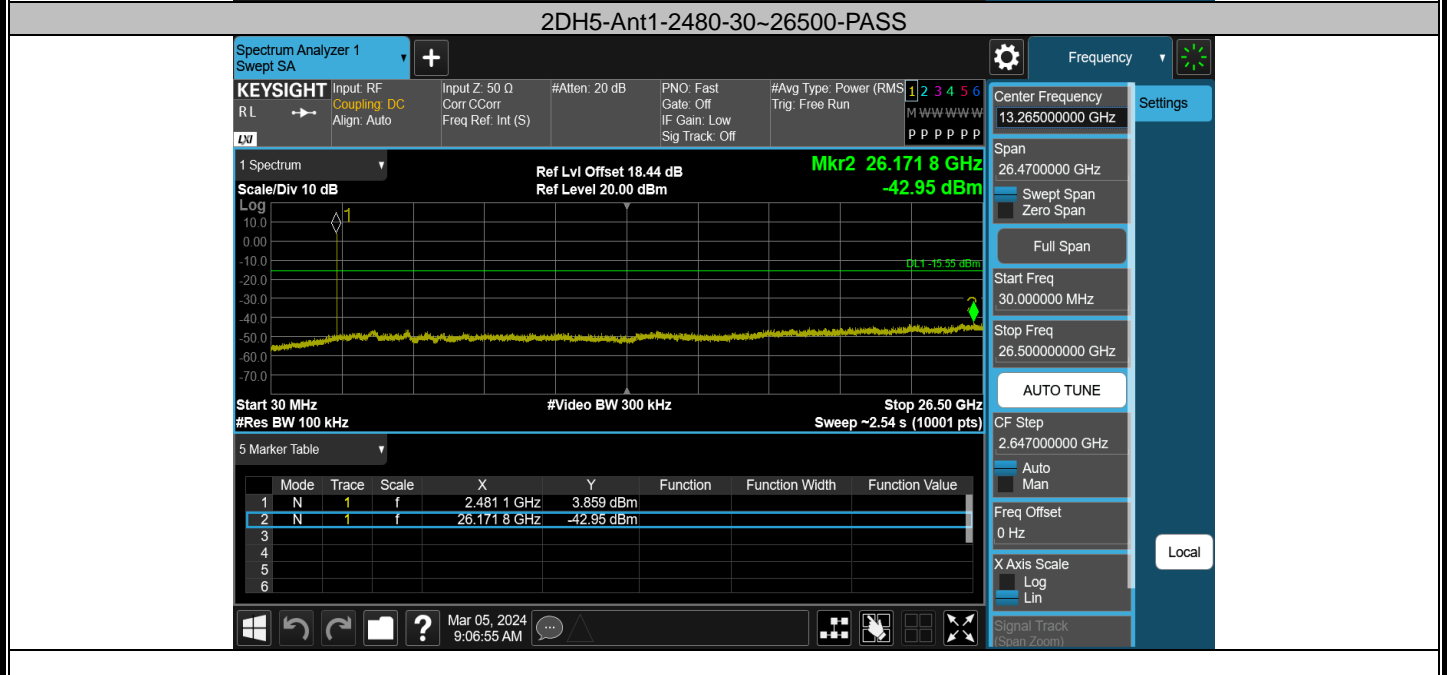
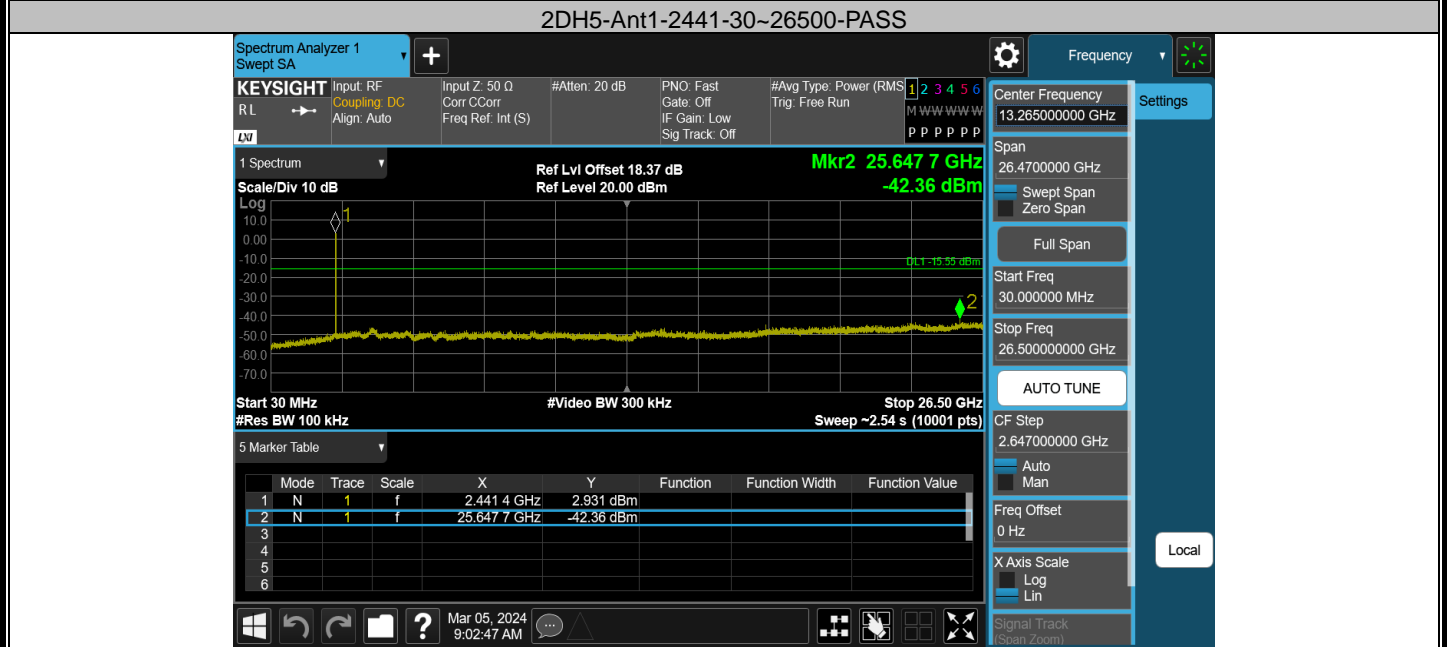
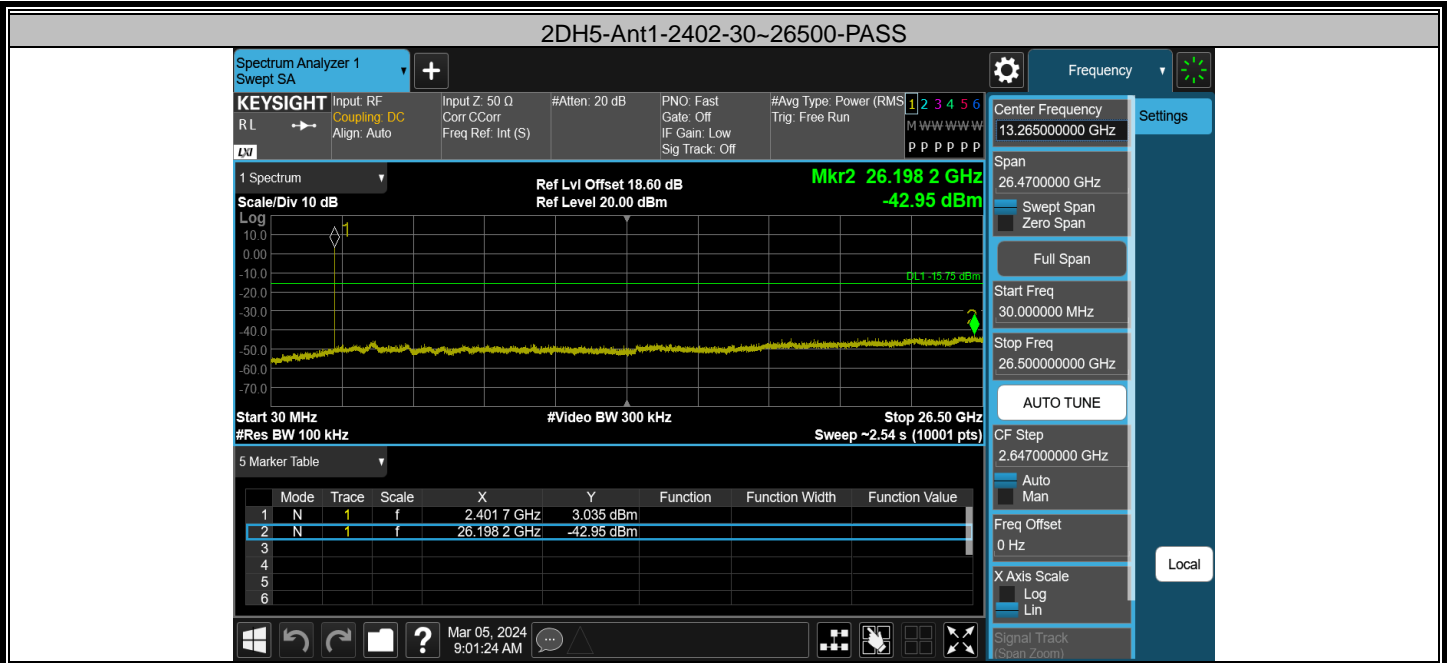


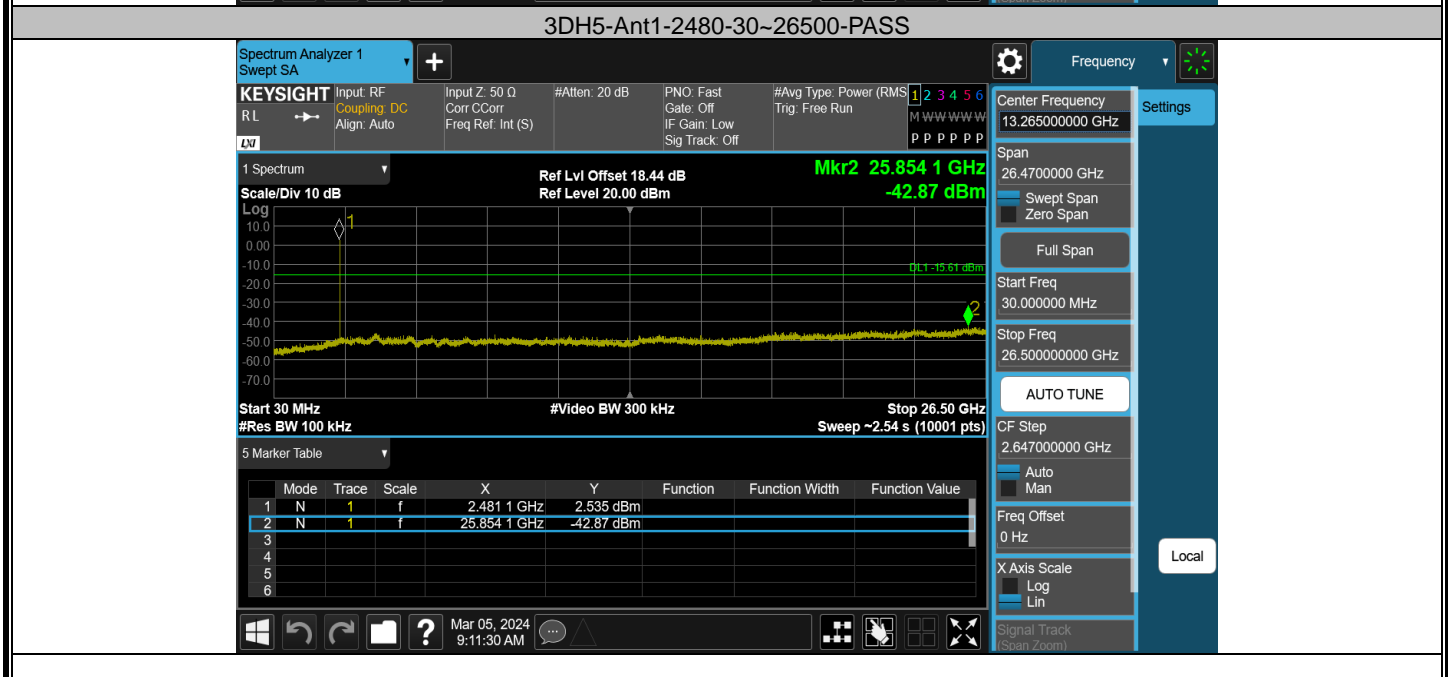
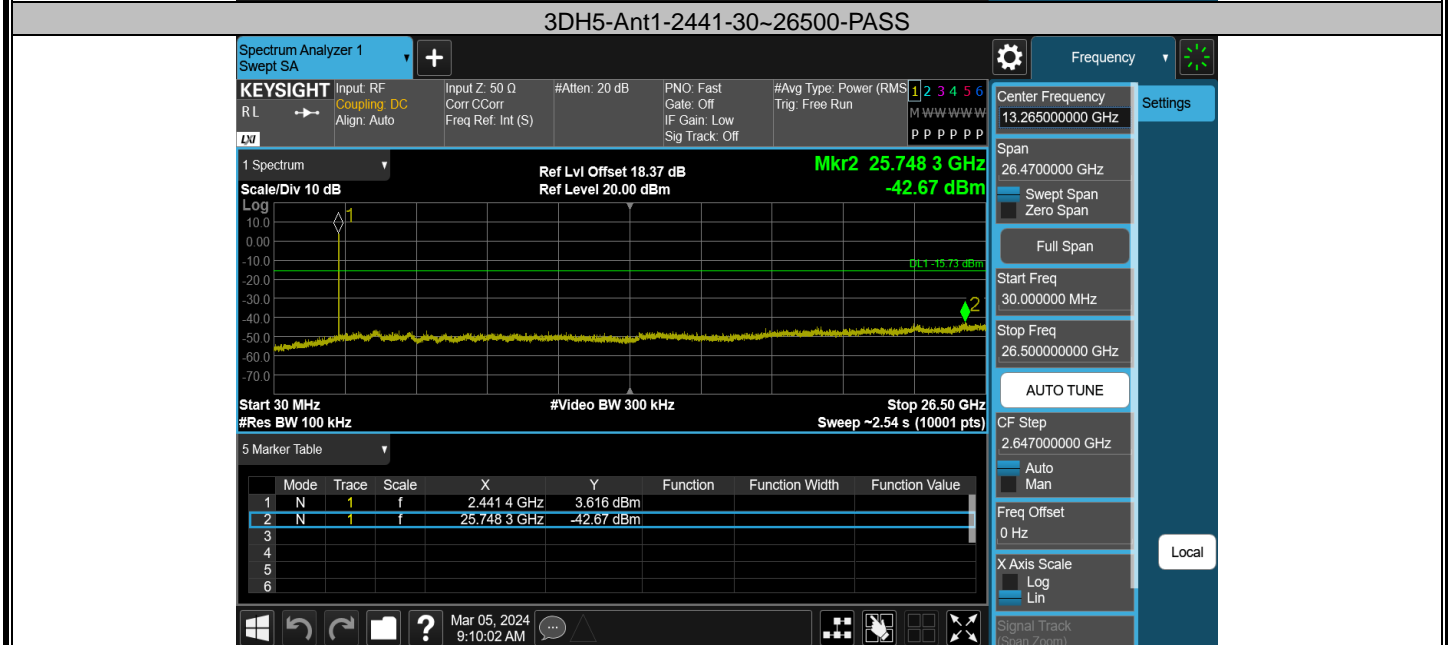
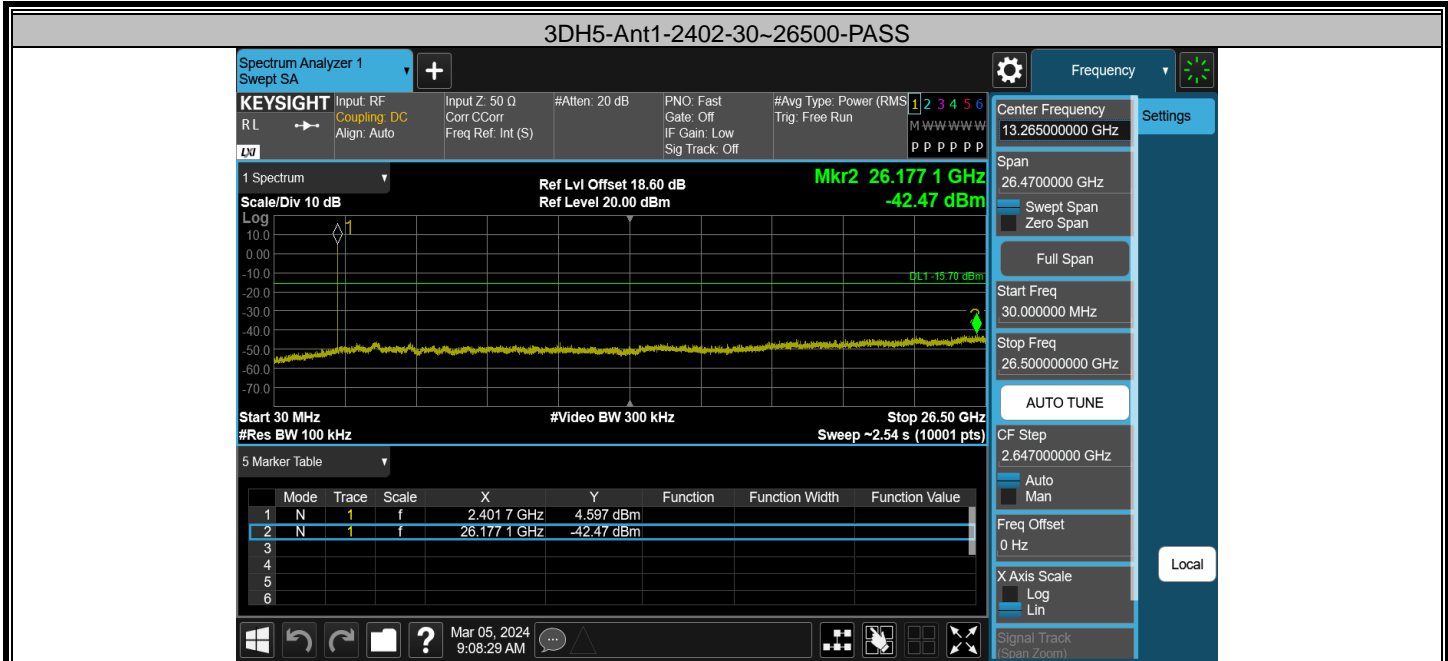
#### DH5-Ant1-2441-30~26500-PASS



#### DH5-Ant1-2480-30~26500-PASS





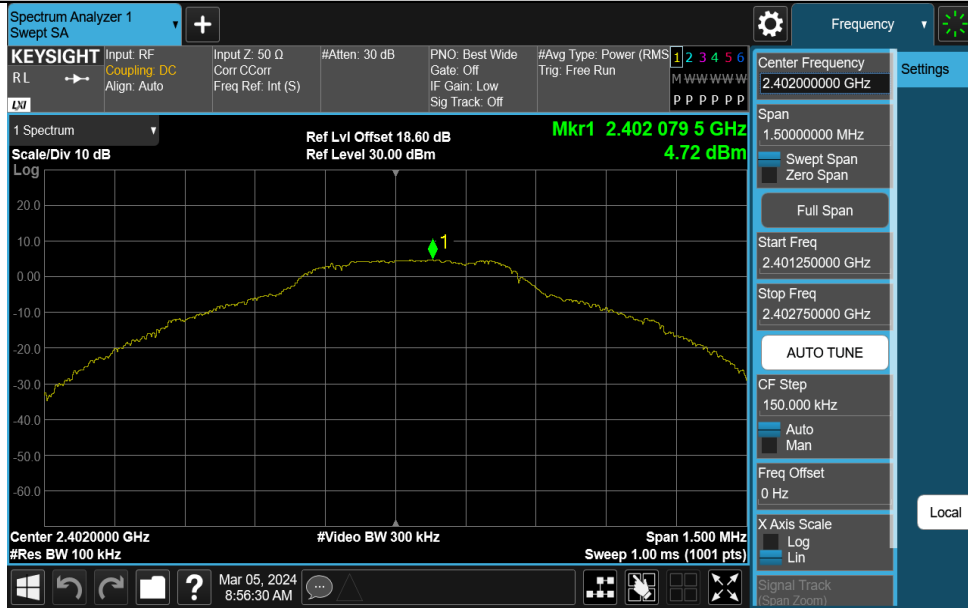


## Appendix H: Reference level measurement Test Result

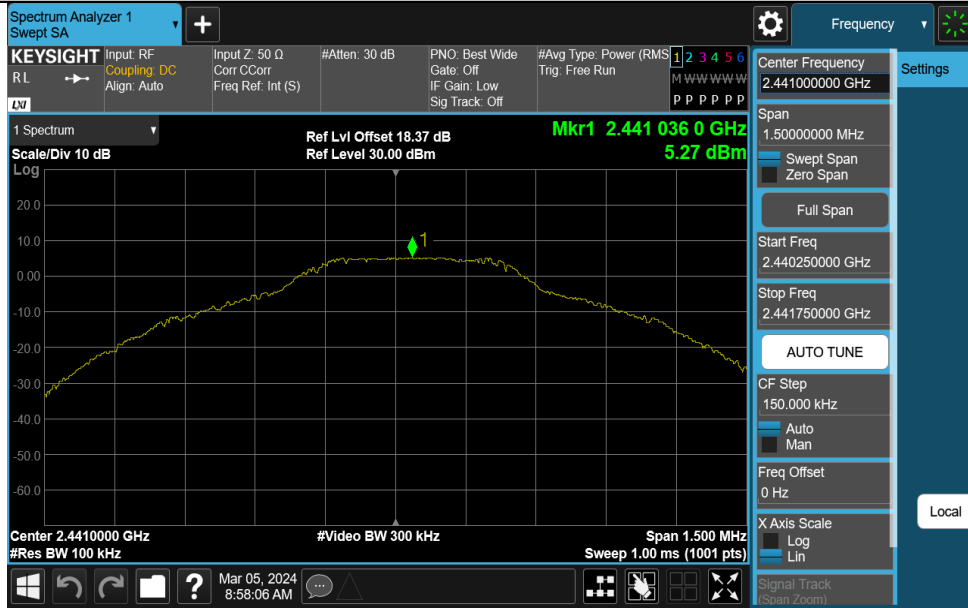
Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
DH5	Ant1	2402	2402.08	4.72
DH5	Ant1	2441	2441.04	5.27
DH5	Ant1	2480	2480.03	5.35
2DH5	Ant1	2402	2402.06	4.25
2DH5	Ant1	2441	2441.06	4.45
2DH5	Ant1	2480	2480.07	4.45
3DH5	Ant1	2402	2402.13	4.30
3DH5	Ant1	2441	2441.13	4.27
3DH5	Ant1	2480	2480.13	4.39

### Test Graphs

#### DH5-Ant1-2402-PASS



#### DH5-Ant1-2441-PASS



#### DH5-Ant1-2480-PASS



### 2DH5-Ant1-2402-PASS



### 2DH5-Ant1-2441-PASS

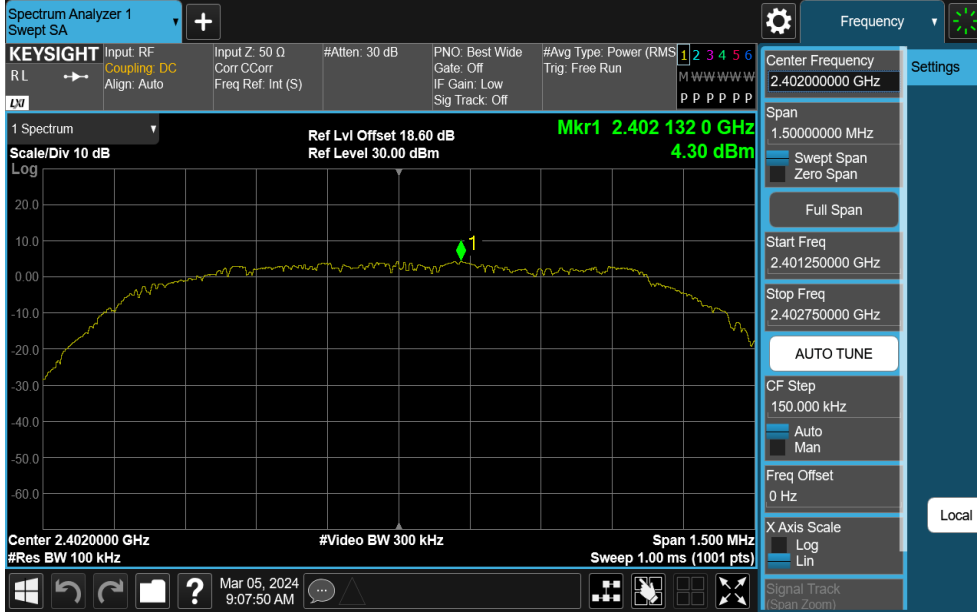


### 2DH5-Ant1-2480-PASS





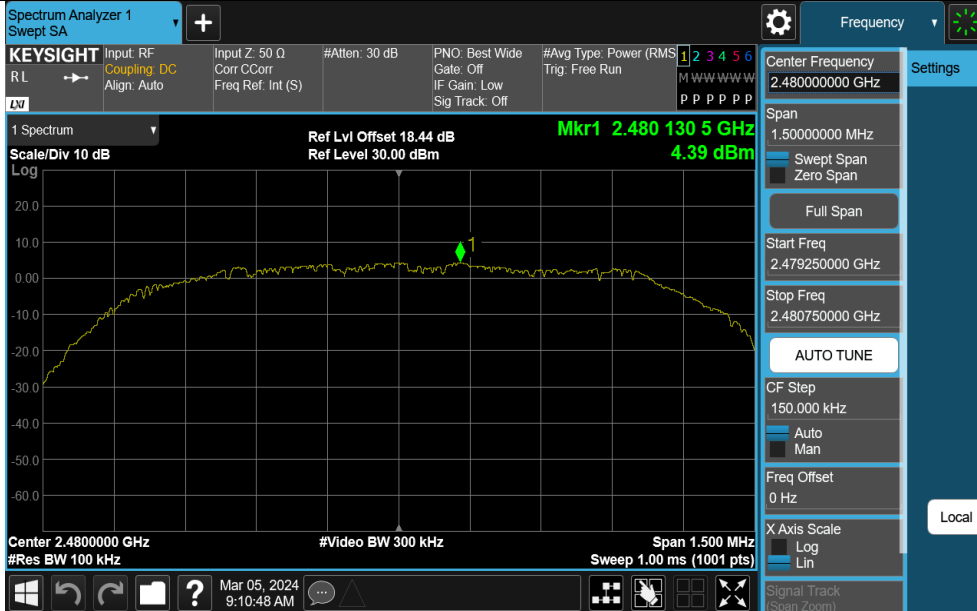
### 3DH5-Ant1-2402-PASS



### 3DH5-Ant1-2441-PASS

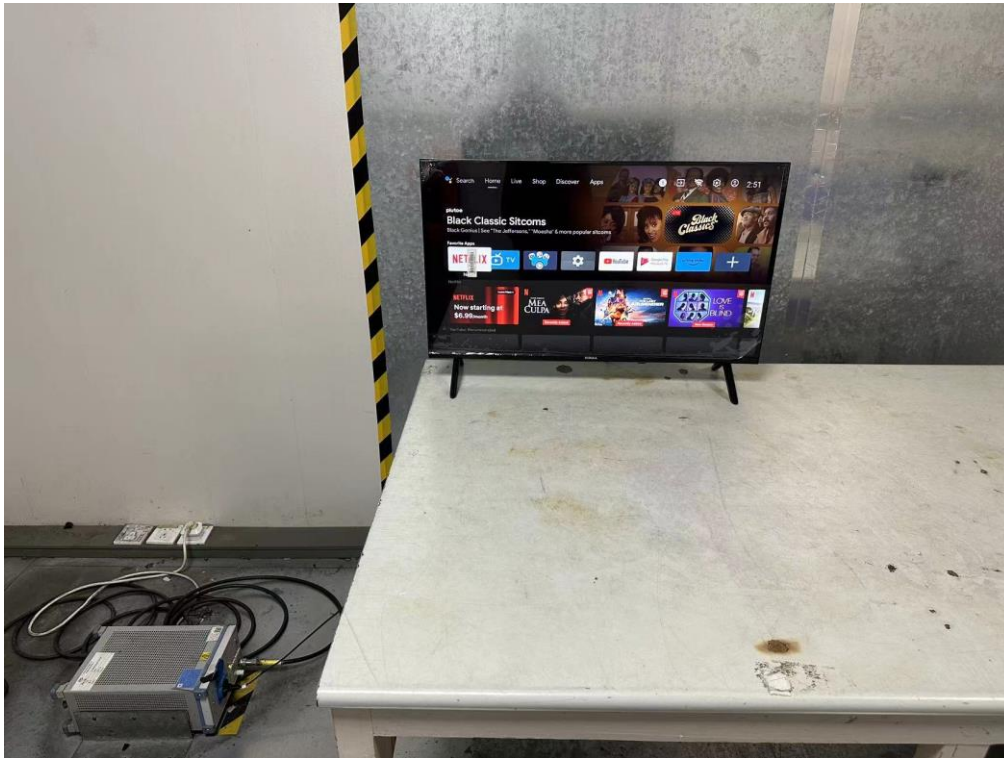


### 3DH5-Ant1-2480-PASS

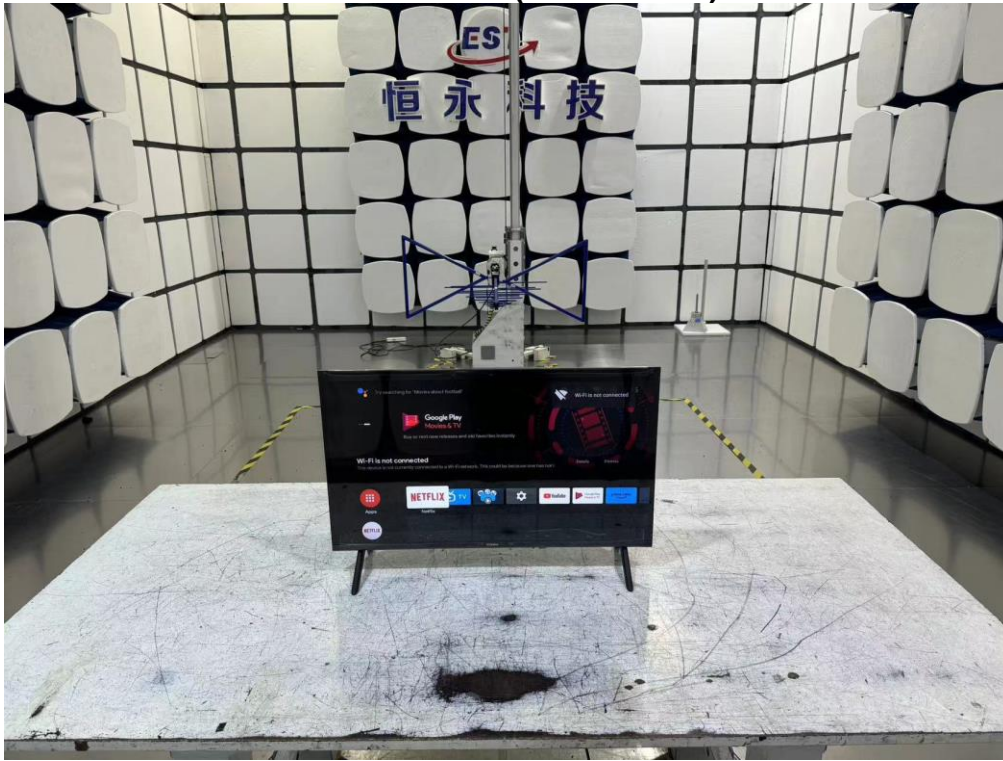


## 14. TEST SETUP PHOTO

### Conducted Test



### Radiated Test (Below 1GHz)



### Radiated Test (Above 1GHz)



## 15. EUT PHOTO

**External Photos**  
M/N: 32RR683TC



**External Photos**  
M/N: 32RR683TC



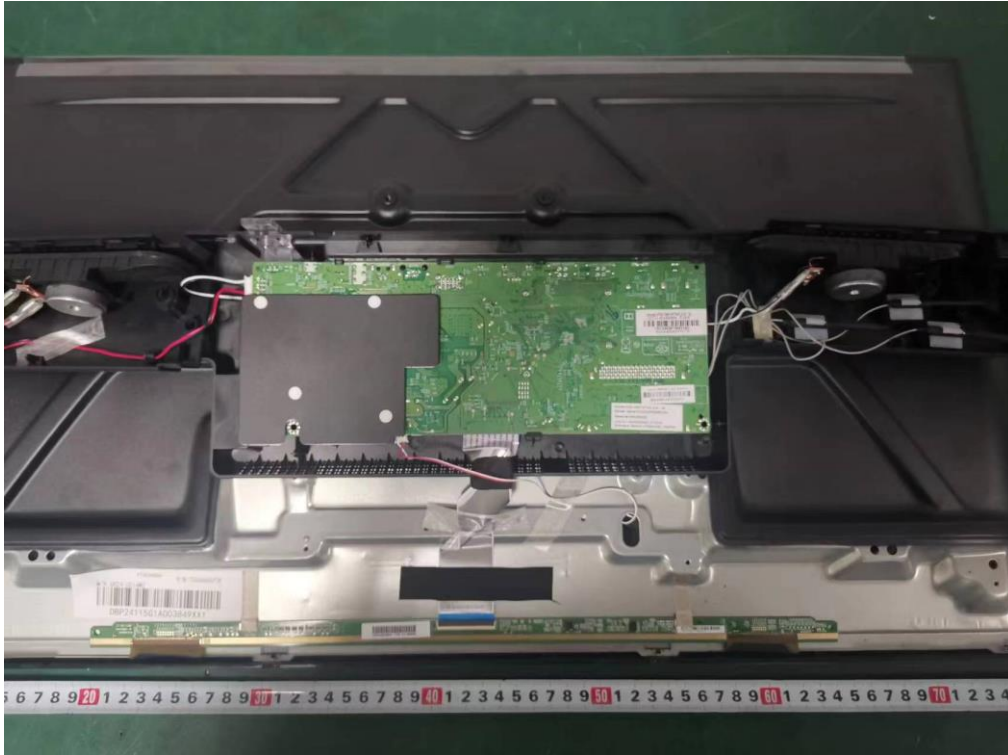
**External Photos**  
M/N: 32RR683TC



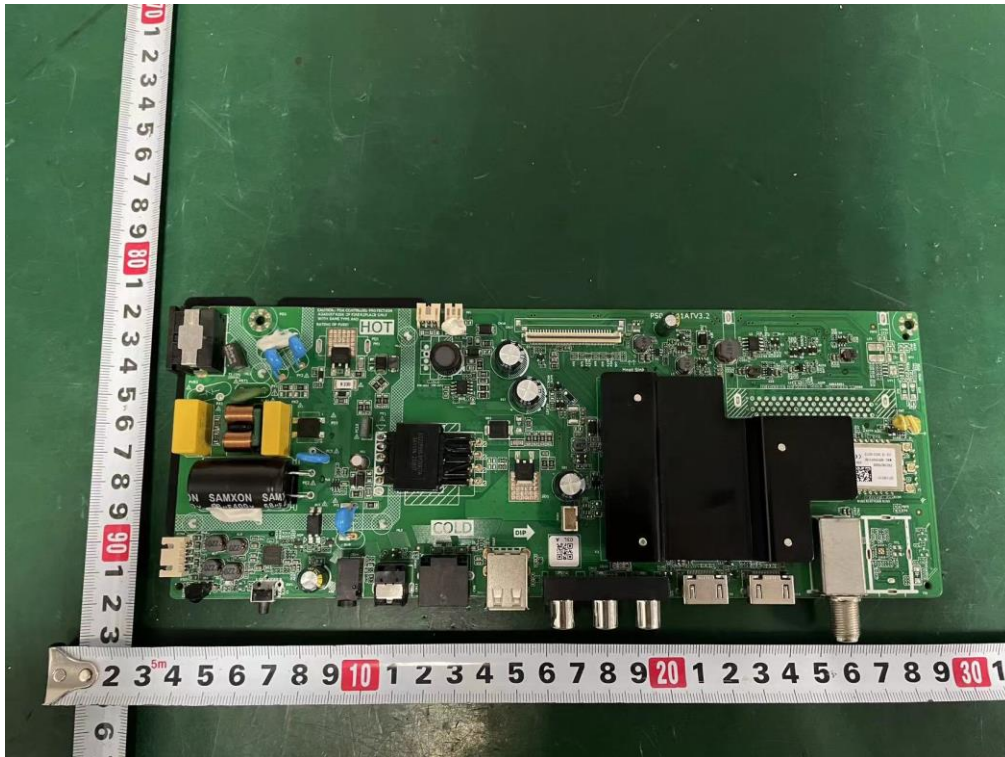
**Internal Photos**  
M/N: 32RR683TC



**Internal Photos**  
M/N: 32RR683TC

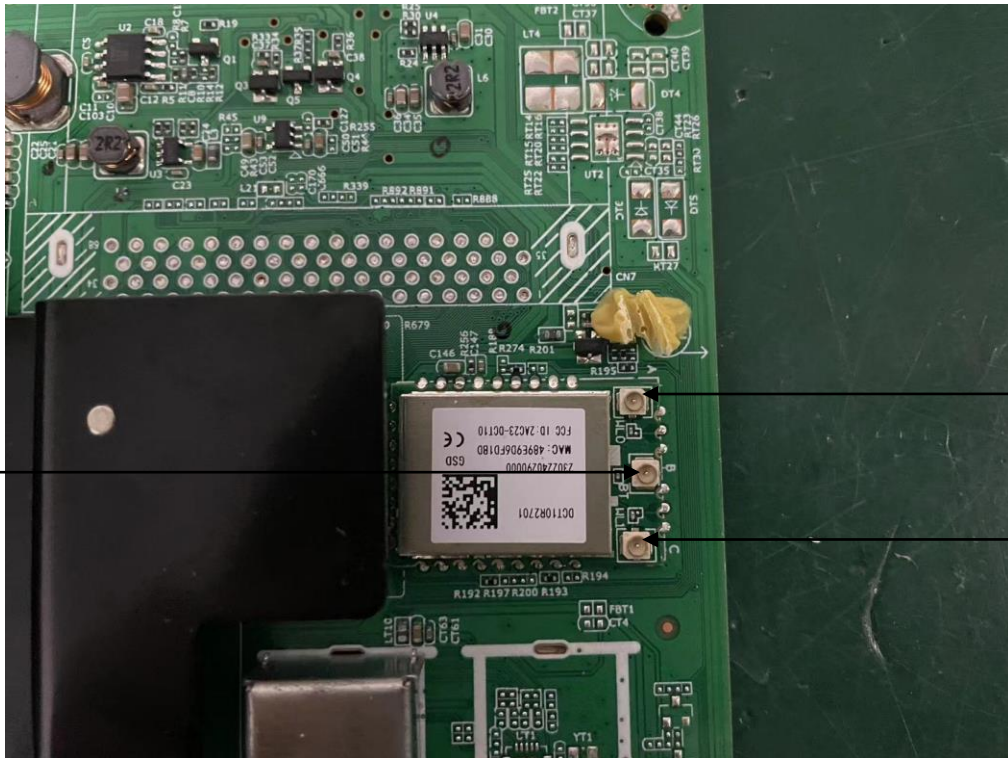


Screen No.: HV320WHB-F70





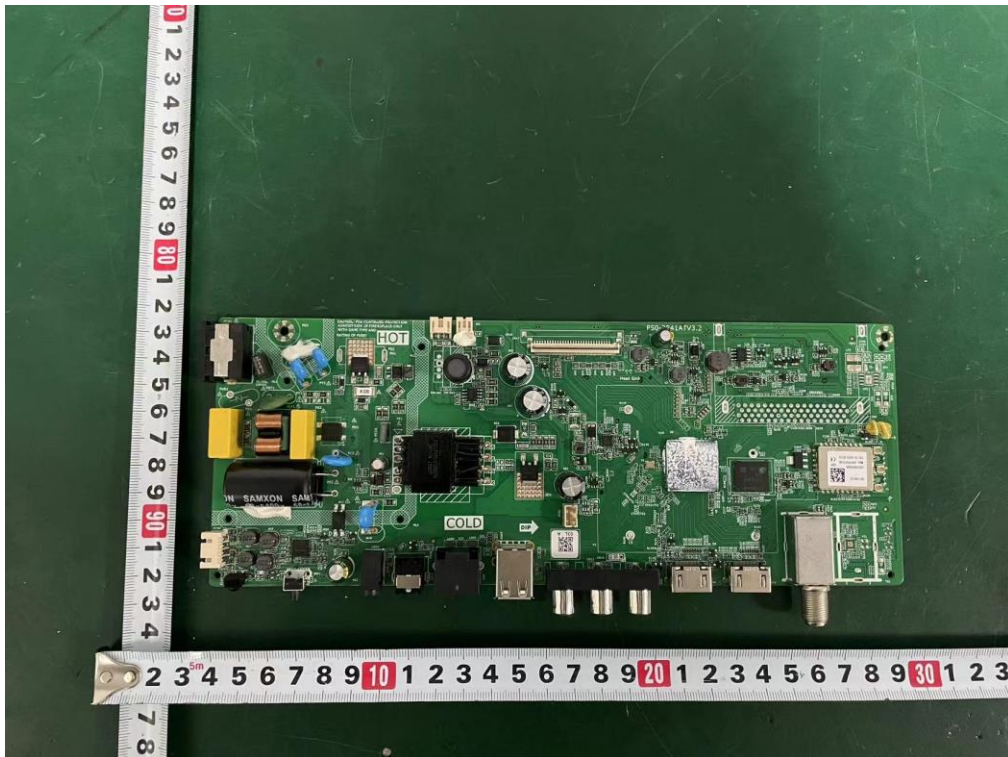
**Internal Photos**  
M/N: 32RR683TC



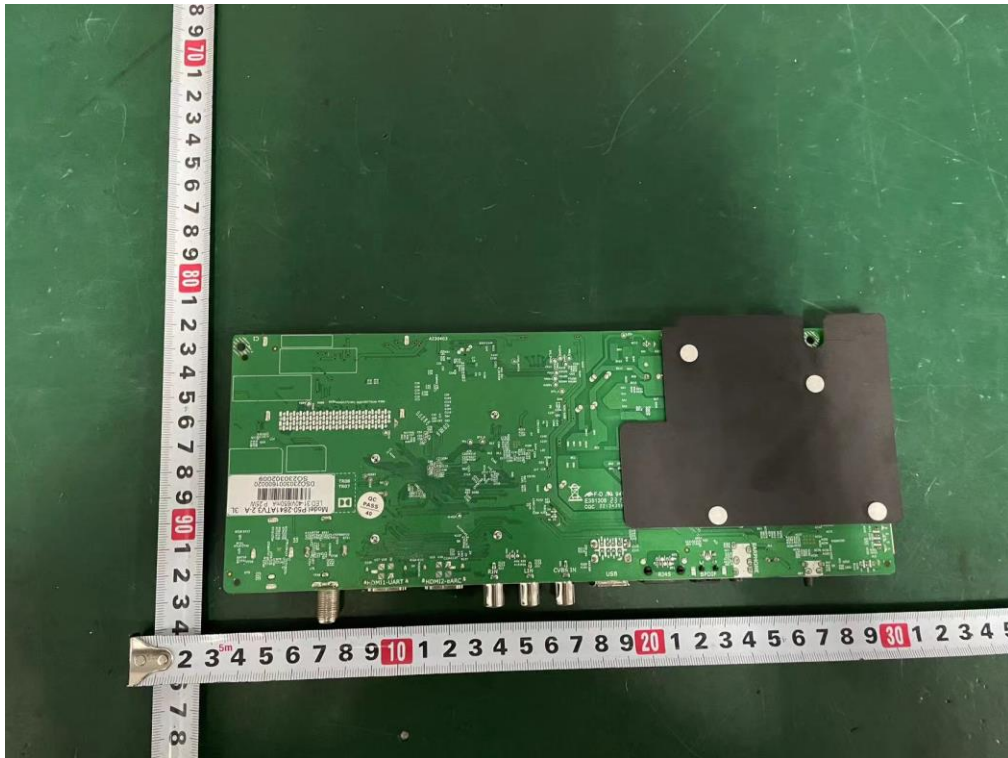
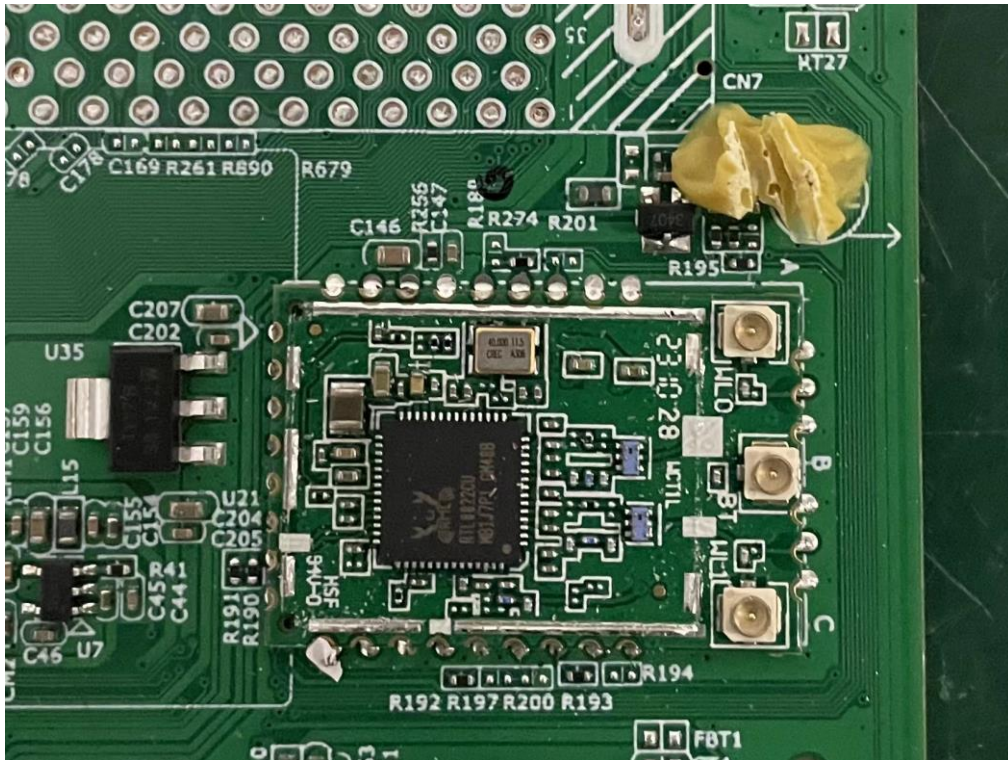
Bluetooth  
Connector  
Antenna

Wi-Fi 1  
Connector  
Antenna

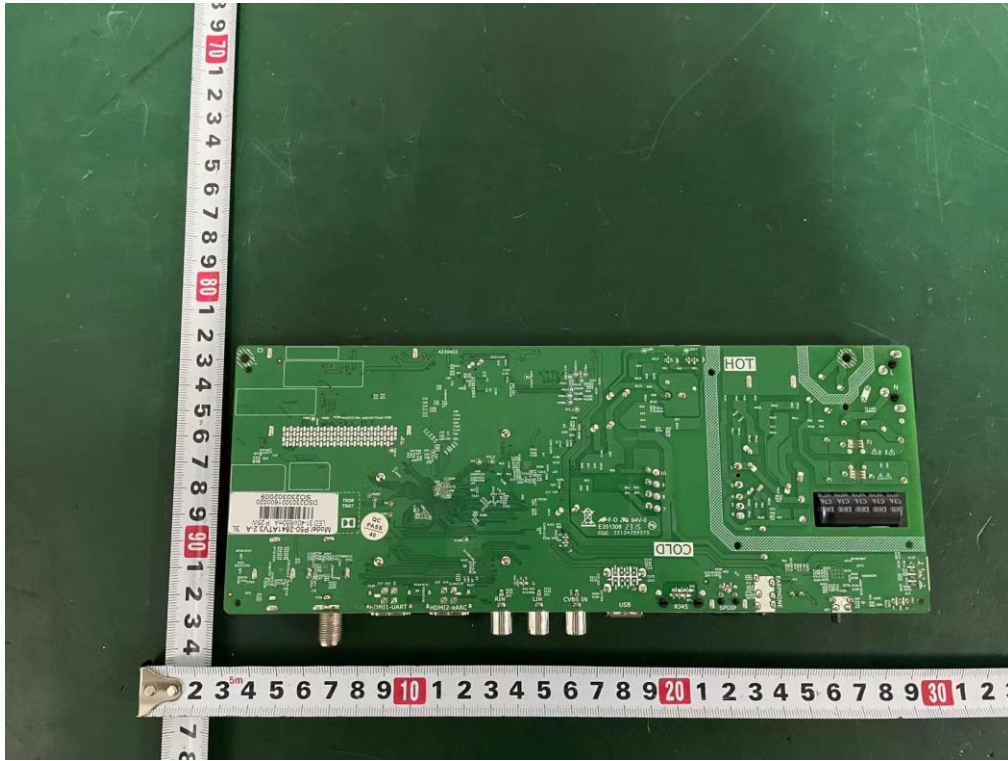
Wi-Fi 2  
Connector  
Antenna



### Internal Photos M/N: 32RR683TC



**Internal Photos**  
M/N: 32RR683TC



Screen No.: HV320WHB-F56

**End of Test Report**