

Appendix A

RF Test Data for BT (Conducted Measurement)

Product Name: LUMINATE RECORD PLAYER

Test Model: CR6050A-BK

Environmental Conditions

Temperature:	24.1°C
Relative Humidity:	52.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Yan Chen
Supervised by:	Fengliu Tang

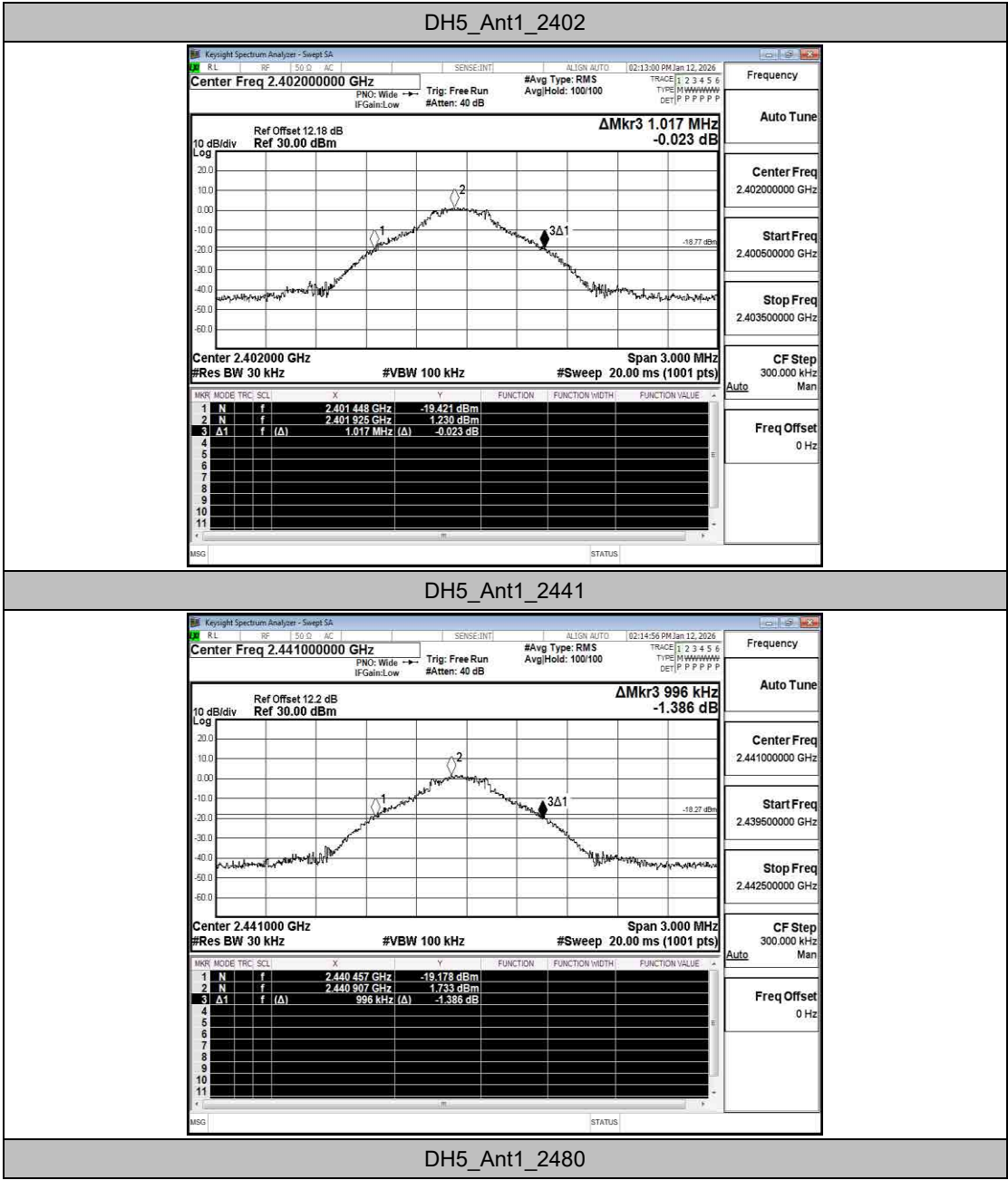
A.1 20dB Emission Bandwidth

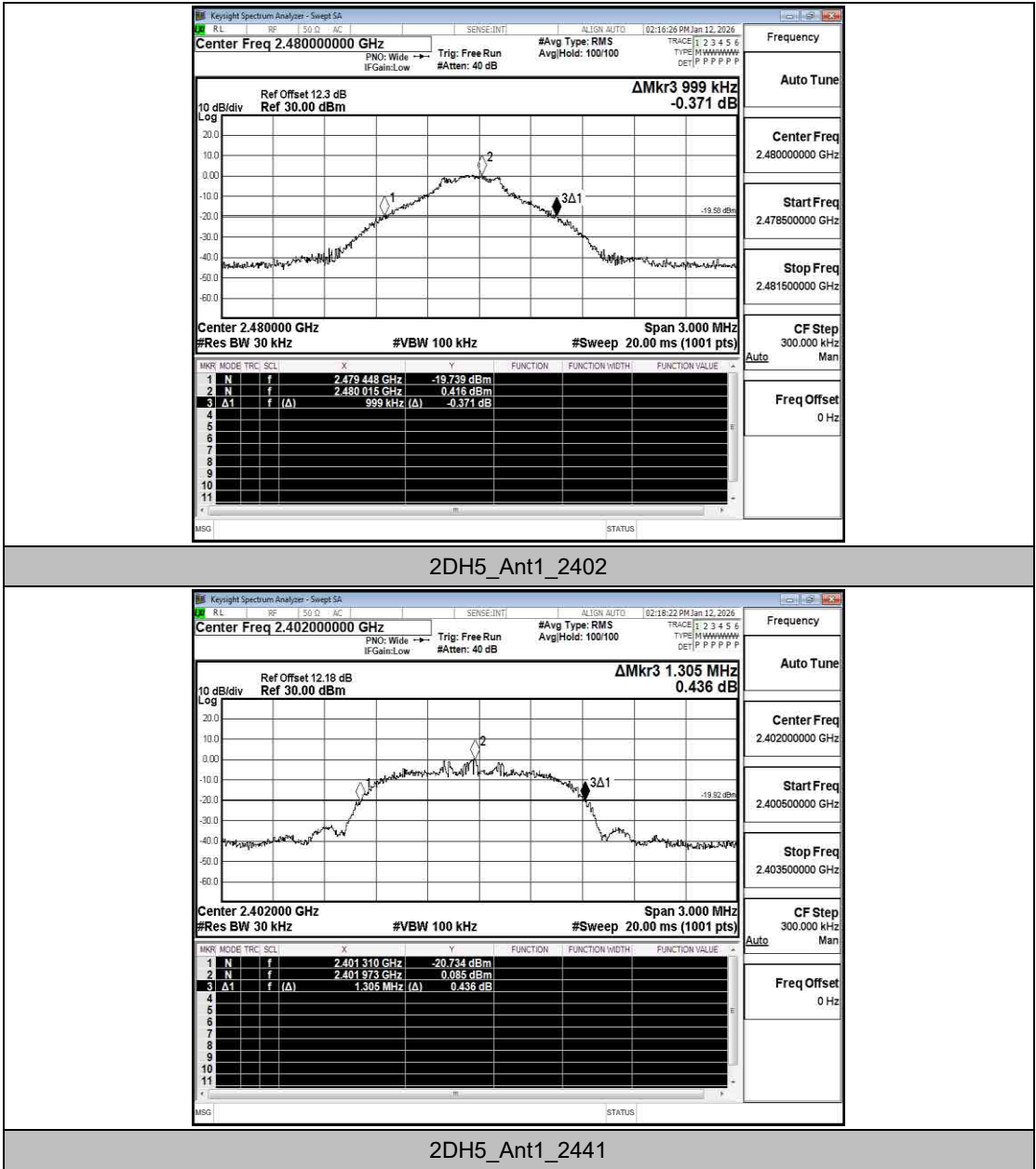
Test Result

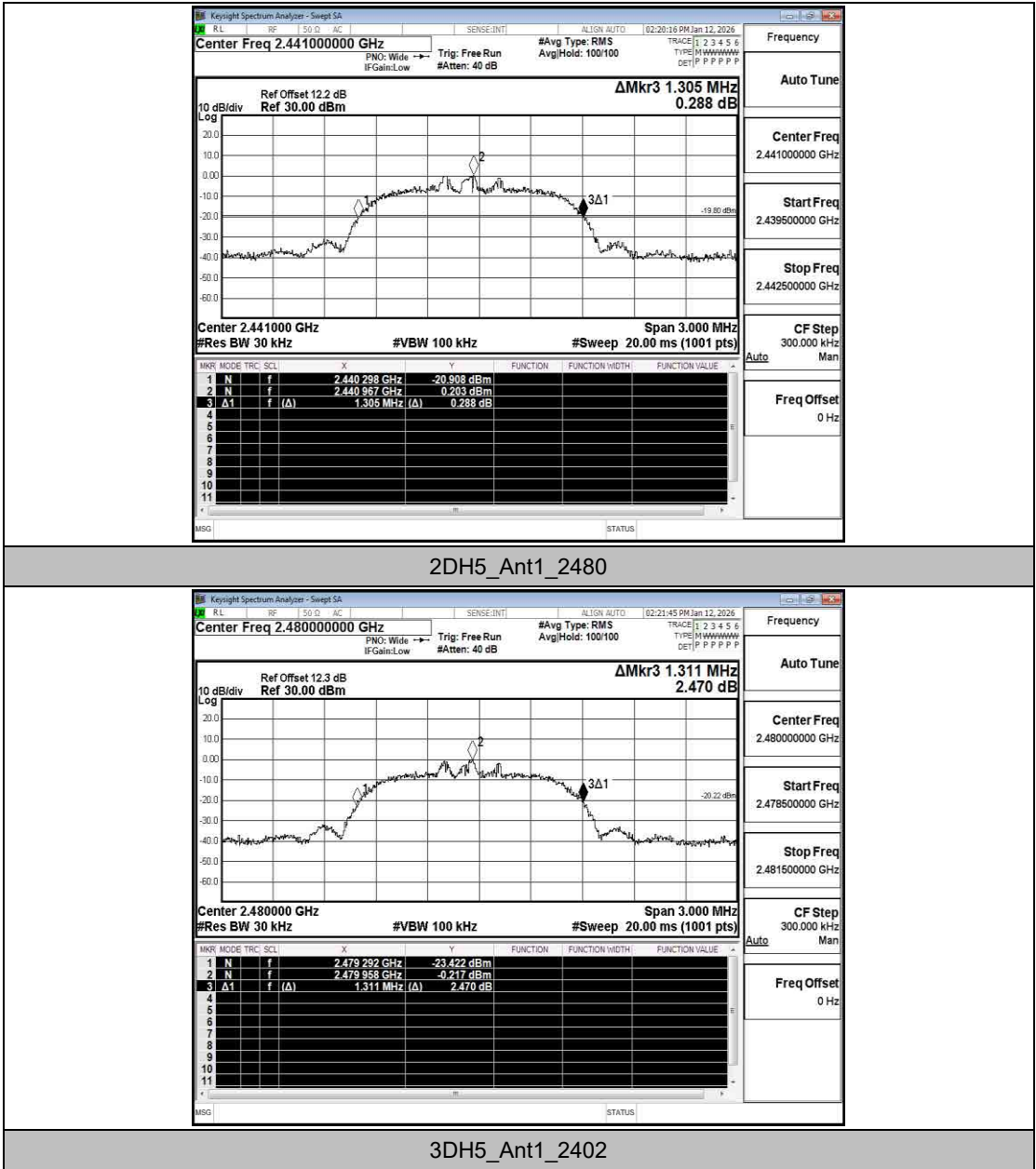
TestMode	Antenna	Freq(MHz)	20dB EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.017	2401.448	2402.465	---	---
		2441	0.996	2440.457	2441.453	---	---
		2480	0.999	2479.448	2480.447	---	---
2DH5	Ant1	2402	1.305	2401.310	2402.615	---	---
		2441	1.305	2440.298	2441.603	---	---
		2480	1.311	2479.292	2480.603	---	---
3DH5	Ant1	2402	1.293	2401.319	2402.612	---	---
		2441	1.296	2440.307	2441.603	---	---
		2480	1.293	2479.301	2480.594	---	---

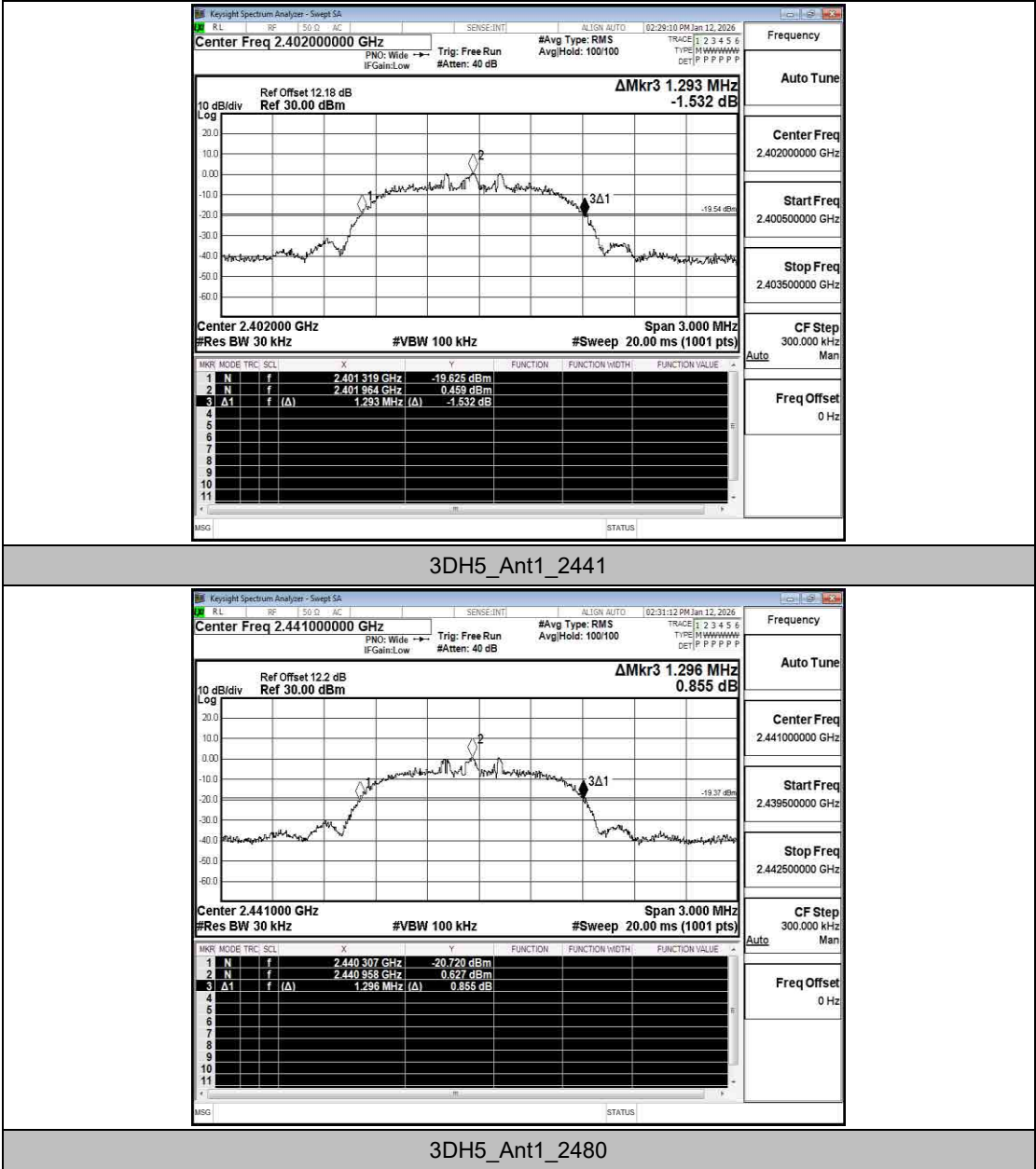
Note :offset=System attenuation +cabal loss

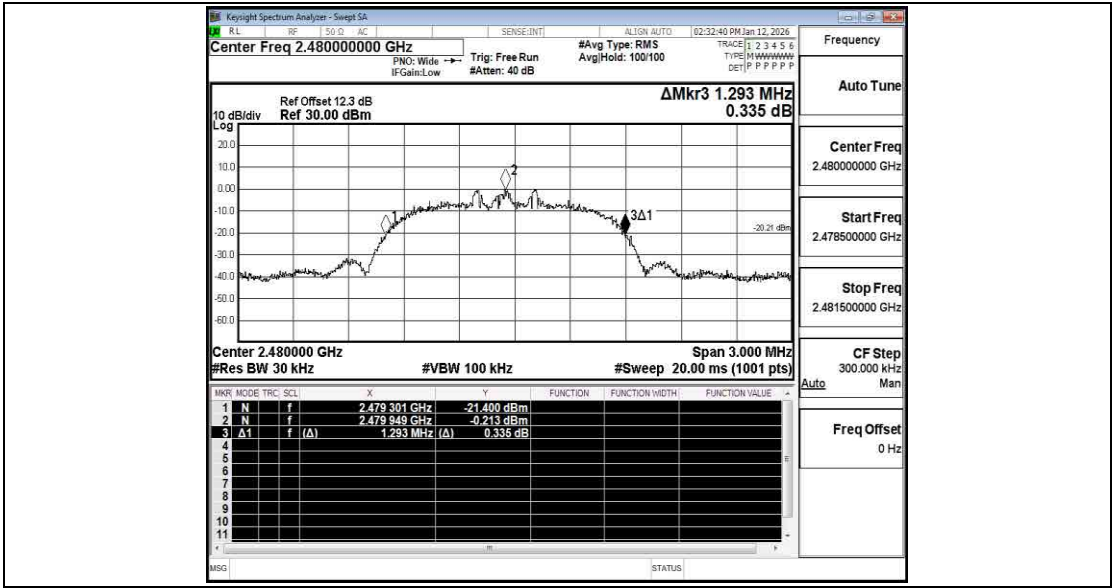
Test Graphs











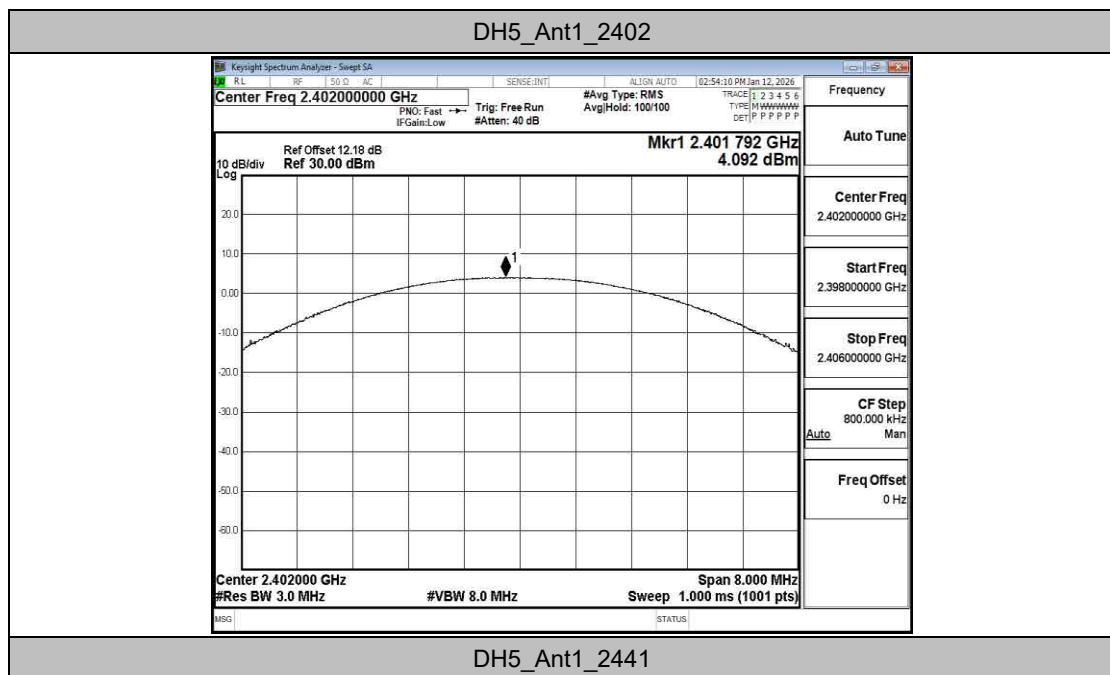
A.2 Maximum Peak conducted output power

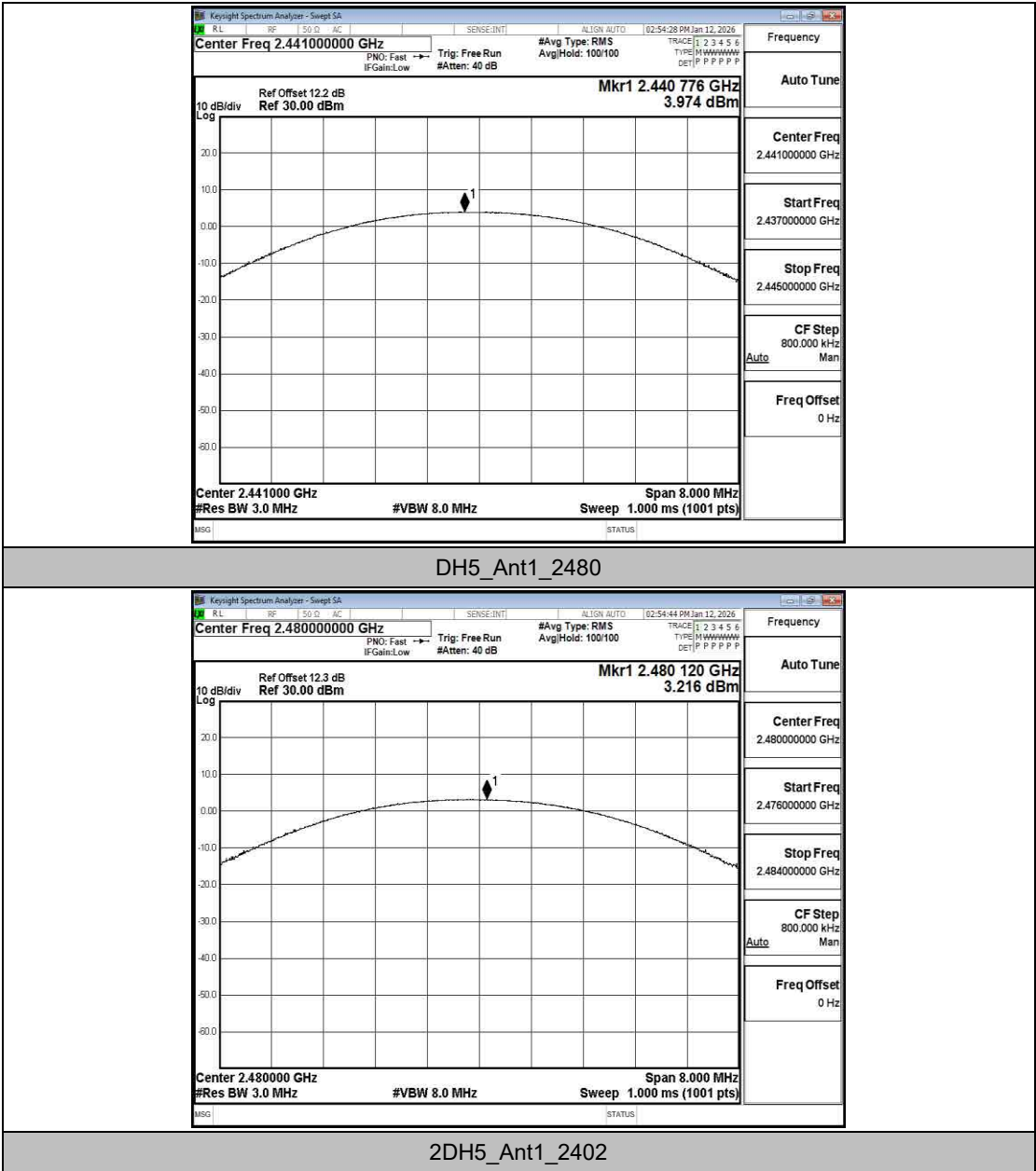
Test Result Peak

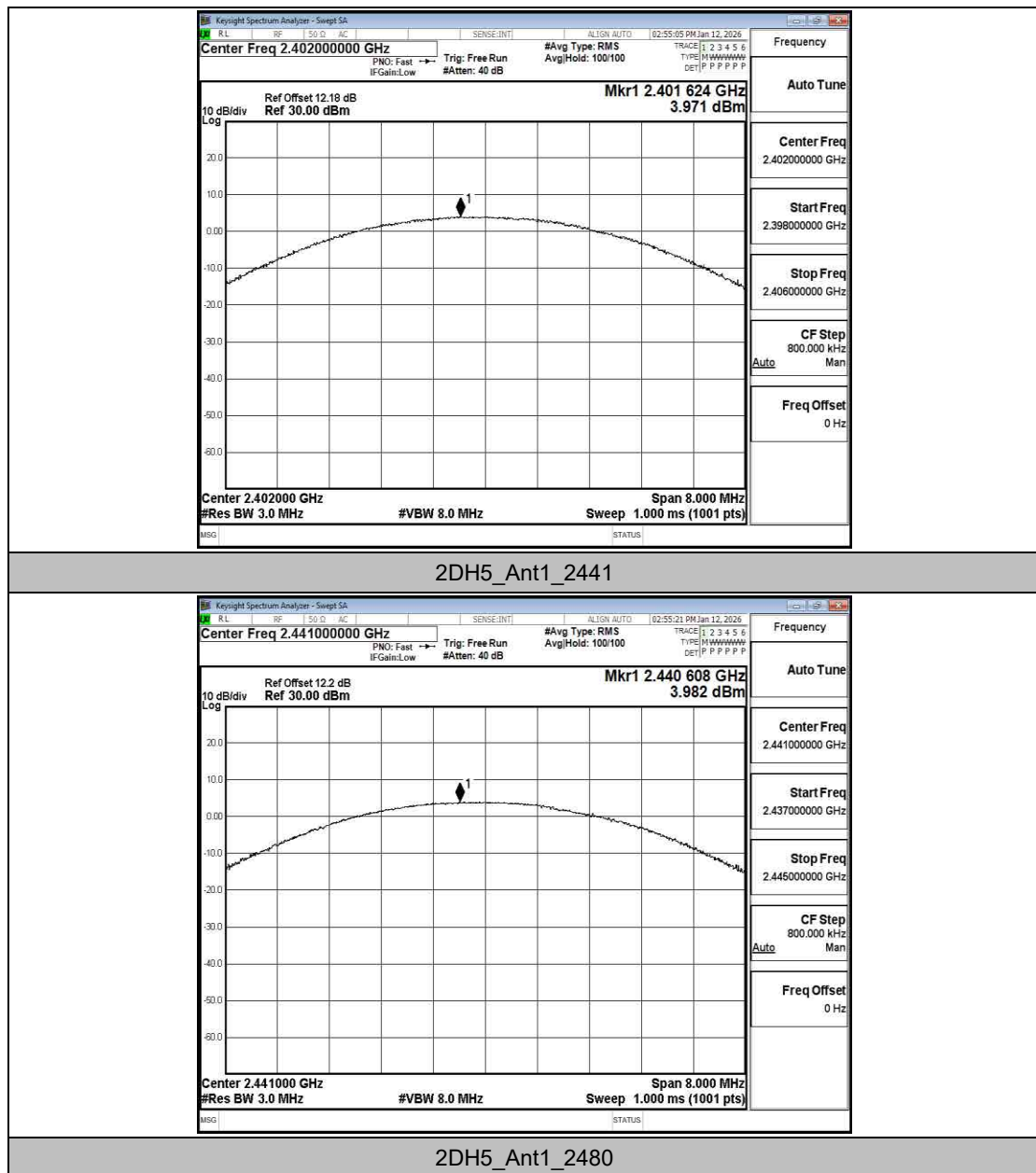
Test Mode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	4.09	≤30	PASS
		2441	3.97	≤30	PASS
		2480	3.22	≤30	PASS
2DH5	Ant1	2402	3.97	≤20.97	PASS
		2441	3.98	≤20.97	PASS
		2480	3.11	≤20.97	PASS
3DH5	Ant1	2402	4.22	≤20.97	PASS
		2441	4.30	≤20.97	PASS
		2480	3.45	≤20.97	PASS

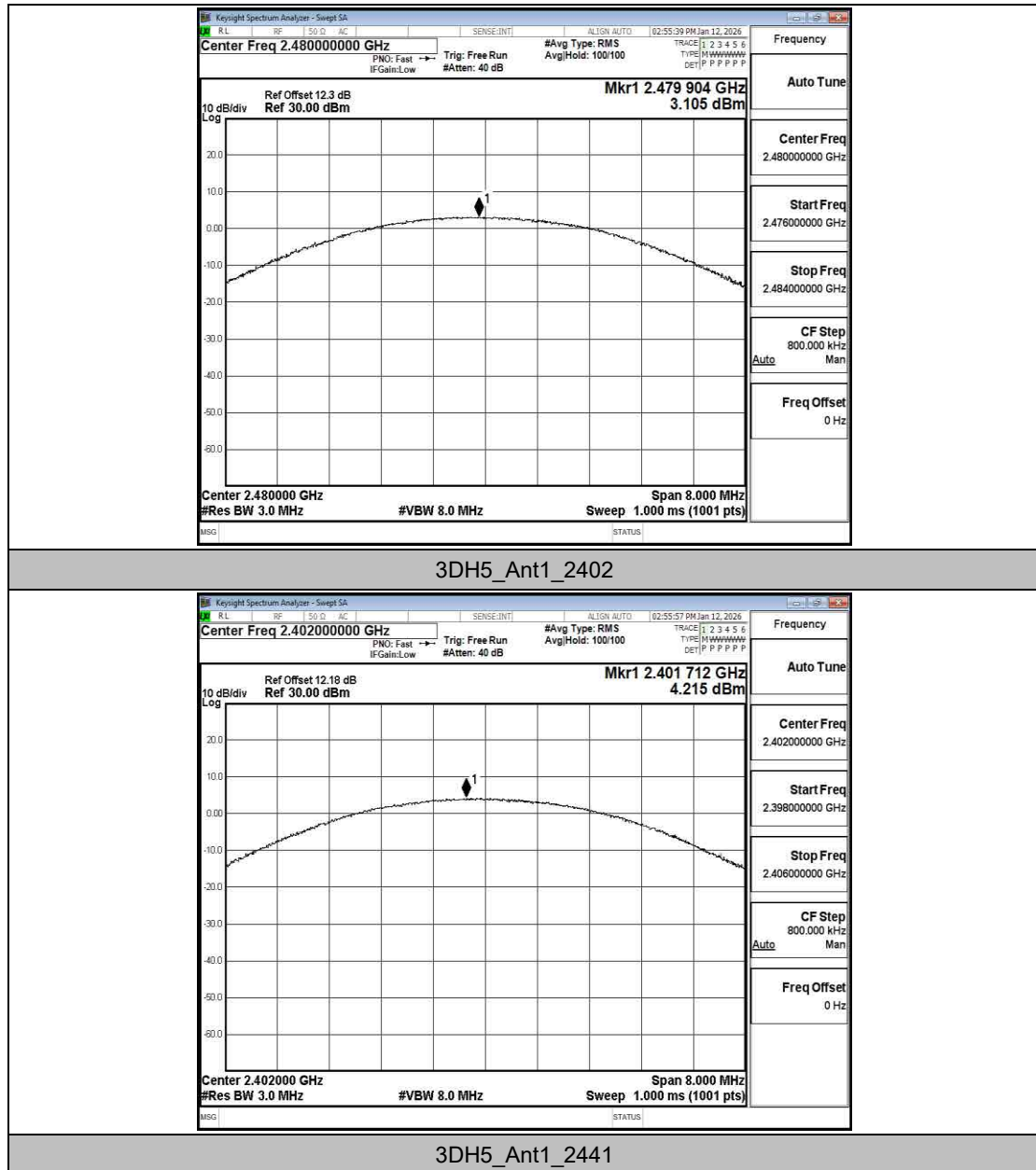
Note :offset=System attenuation +cabal loss

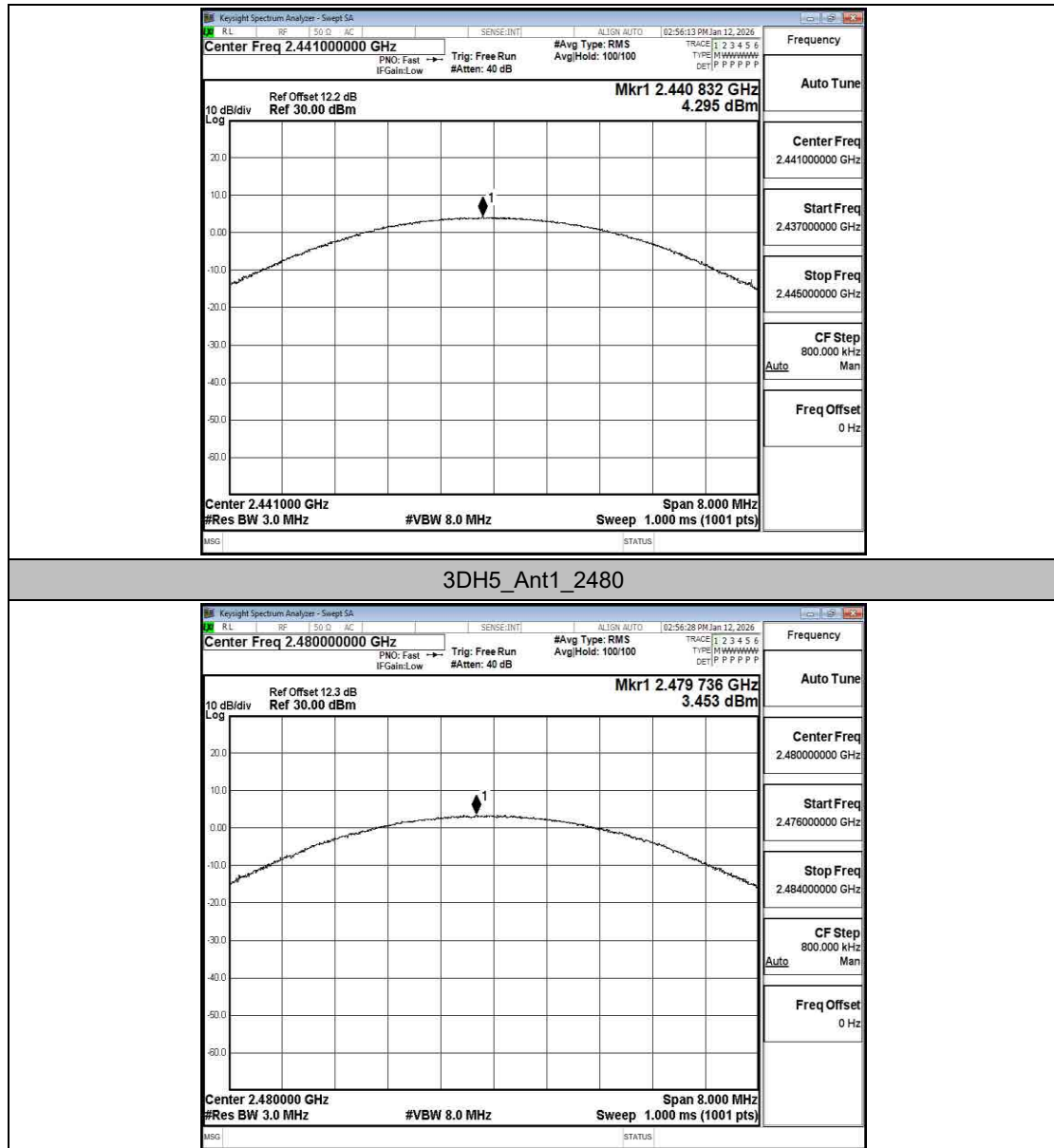
Test Graphs











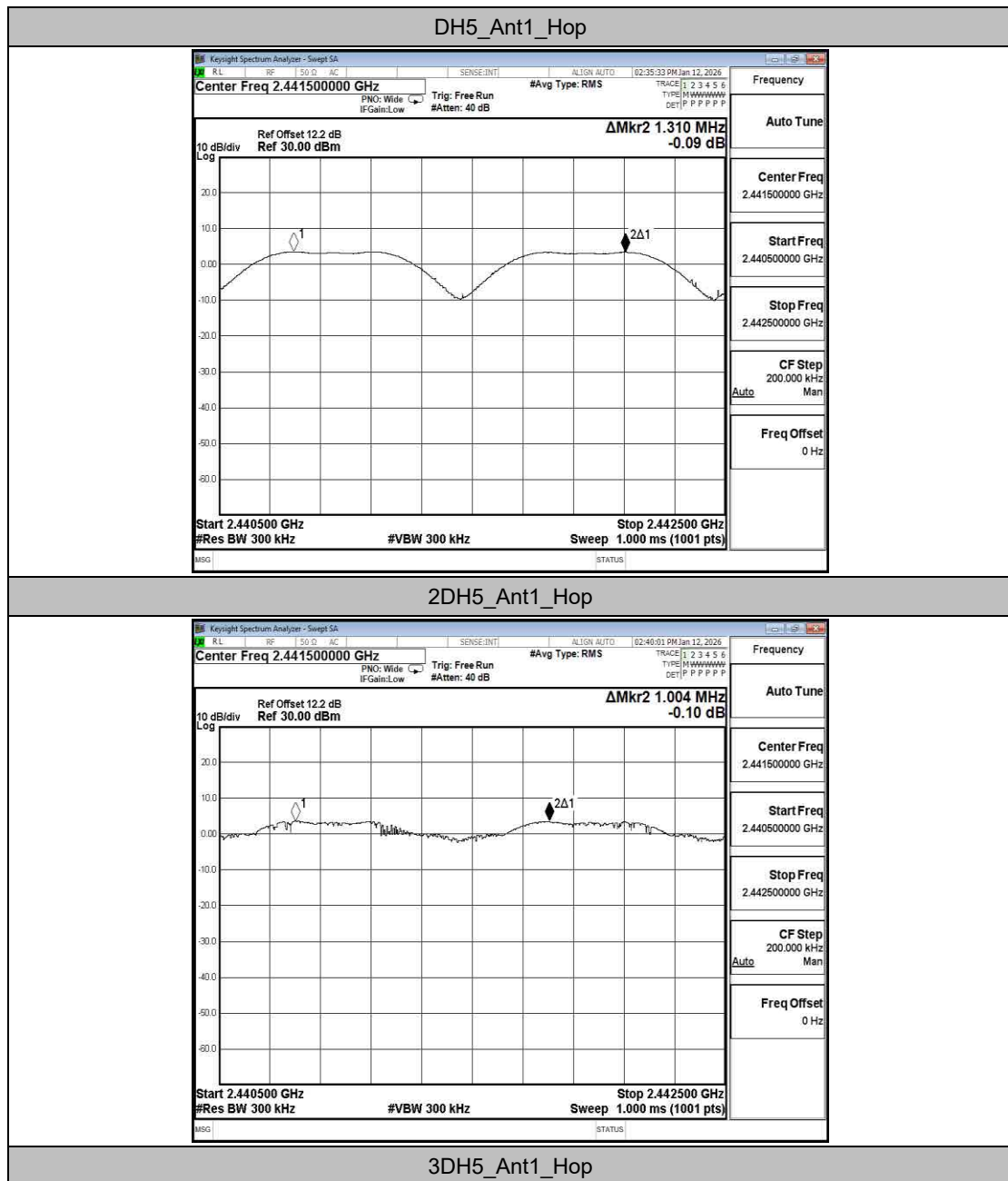
A.3 Carrier frequency separation

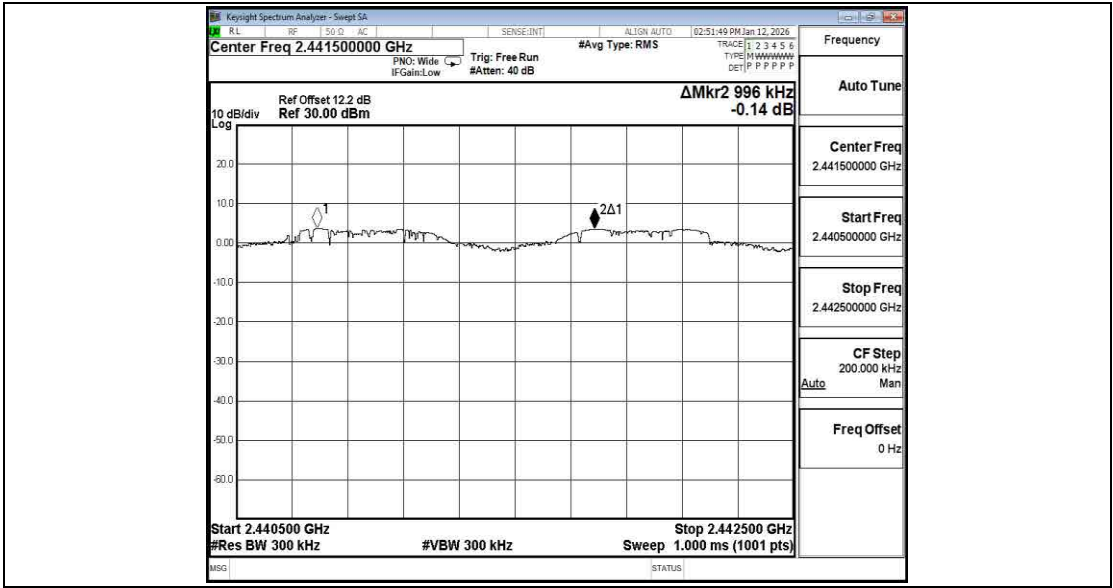
Test Result

TestMode	Antenna	Freq(MHz)	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.31	≥0.678	PASS
2DH5	Ant1	Hop	1.004	≥0.874	PASS
3DH5	Ant1	Hop	0.996	≥0.864	PASS

Note :offset=System attenuation +cabal loss

Test Graphs





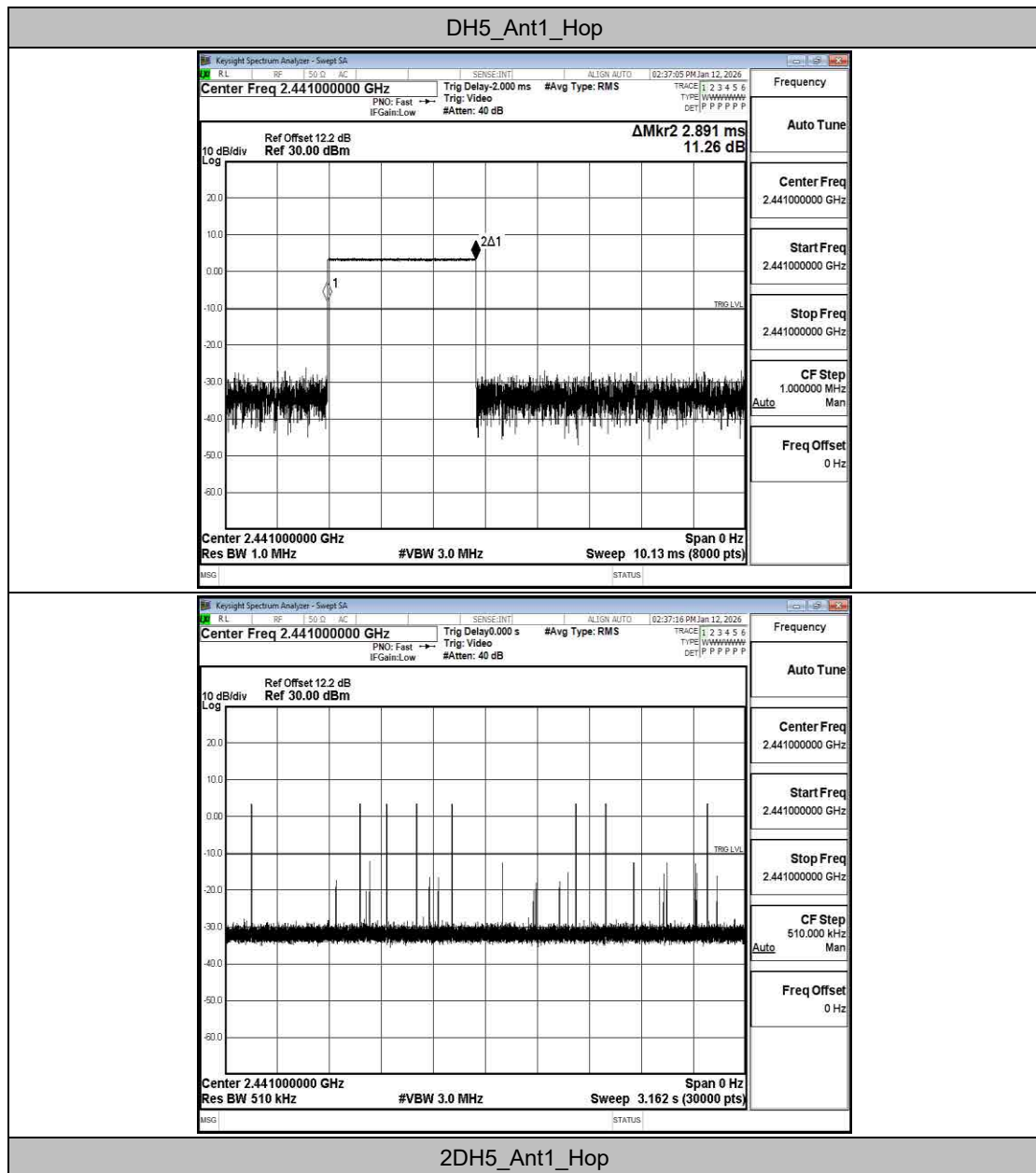
A.4 Time of occupancy

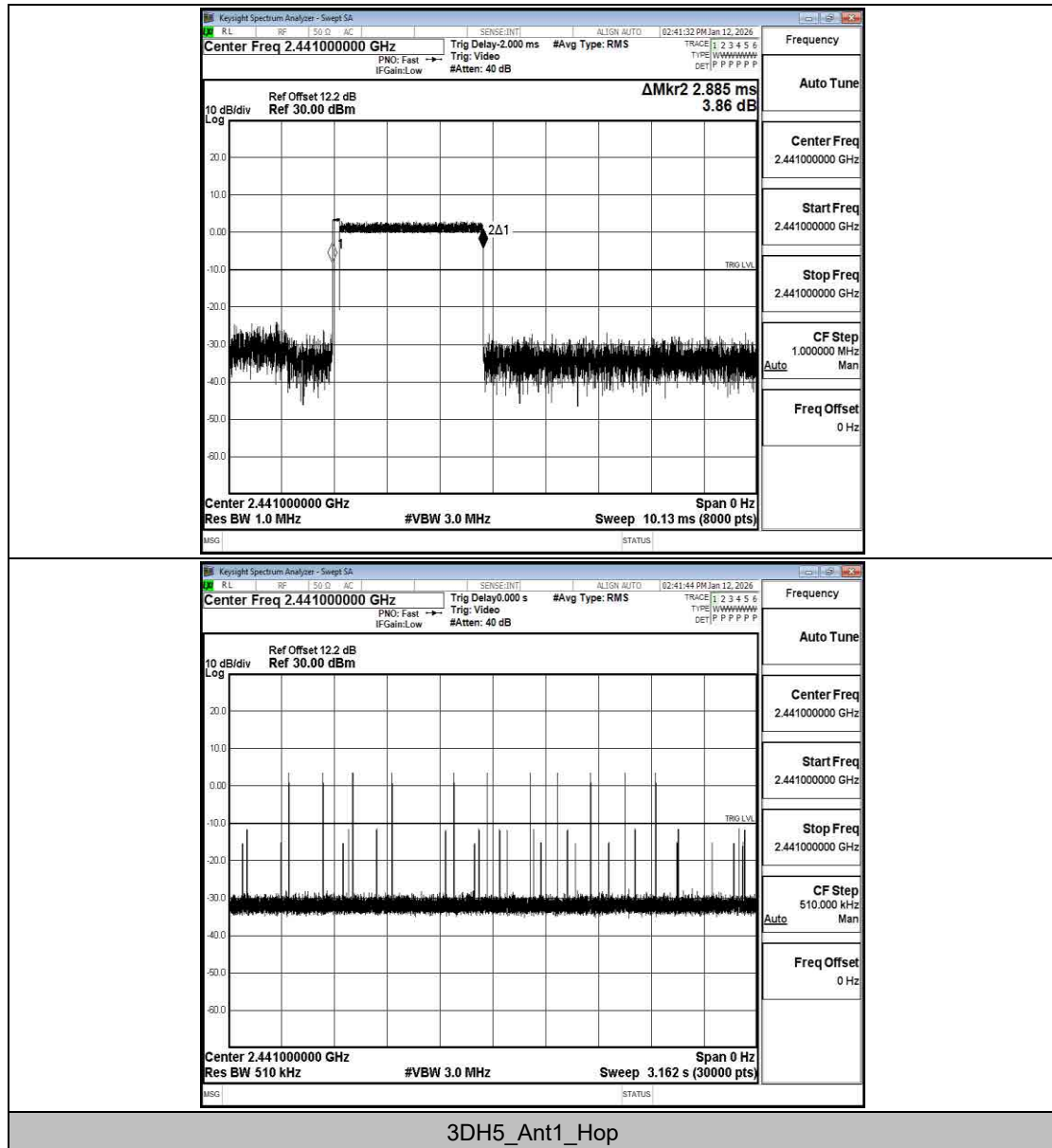
Test Result

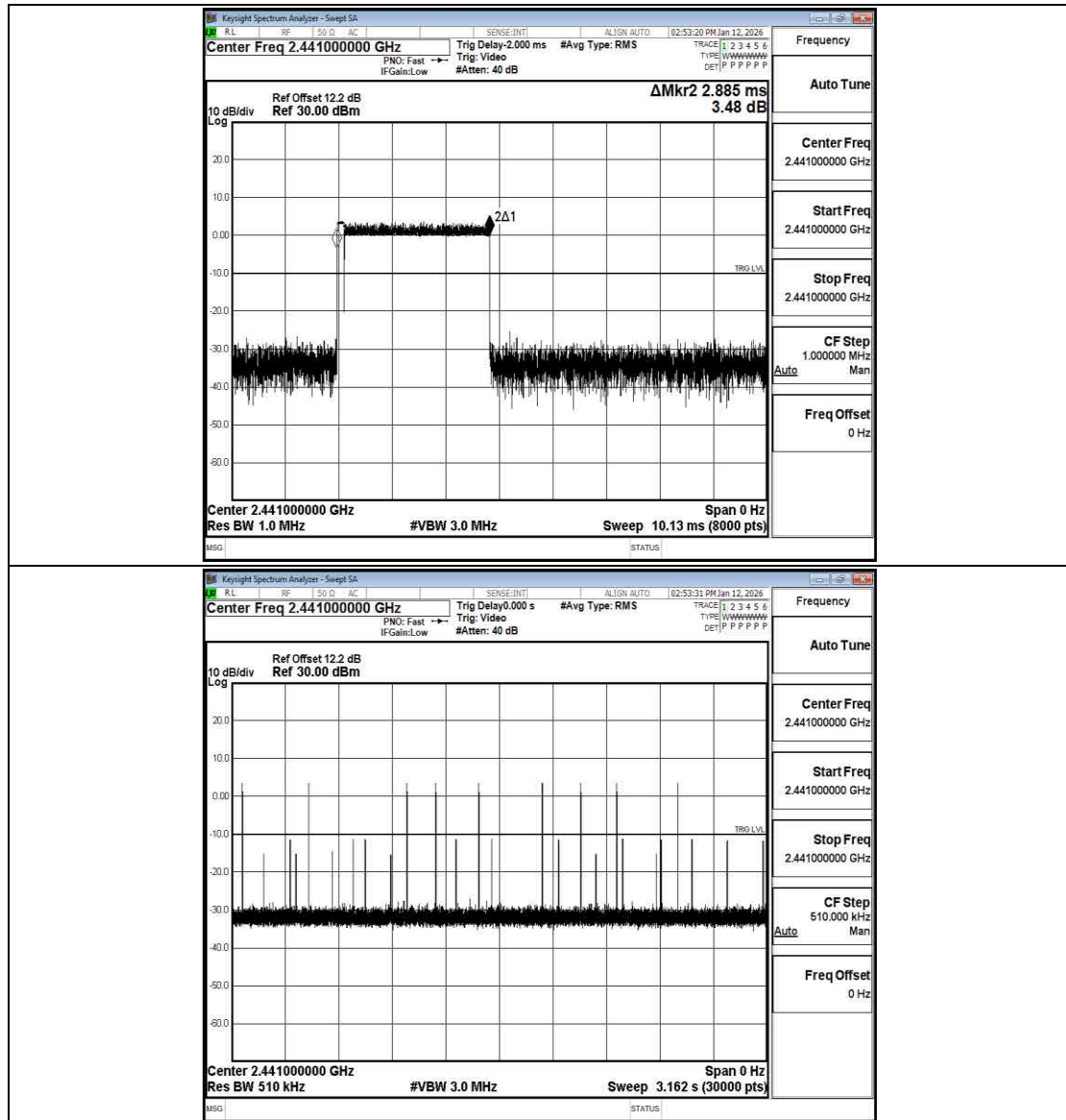
TestMode	Antenna	Freq(MHz)	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.891	90	0.26	≤0.4	PASS
2DH5	Ant1	Hop	2.885	120	0.346	≤0.4	PASS
3DH5	Ant1	Hop	2.885	110	0.317	≤0.4	PASS

Note :offset=System attenuation +cabal loss

Test Graphs







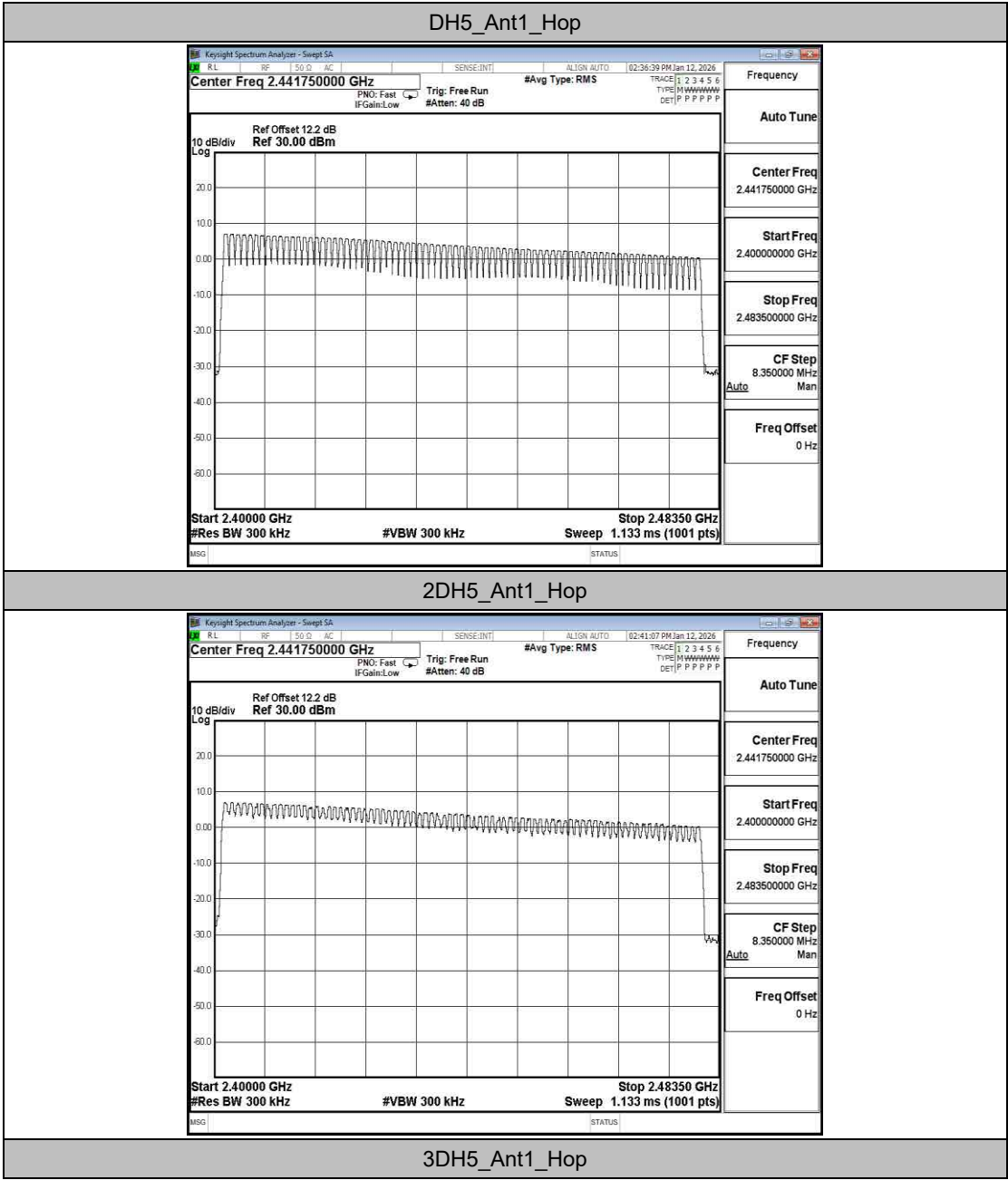
A.5 Number of hopping channels

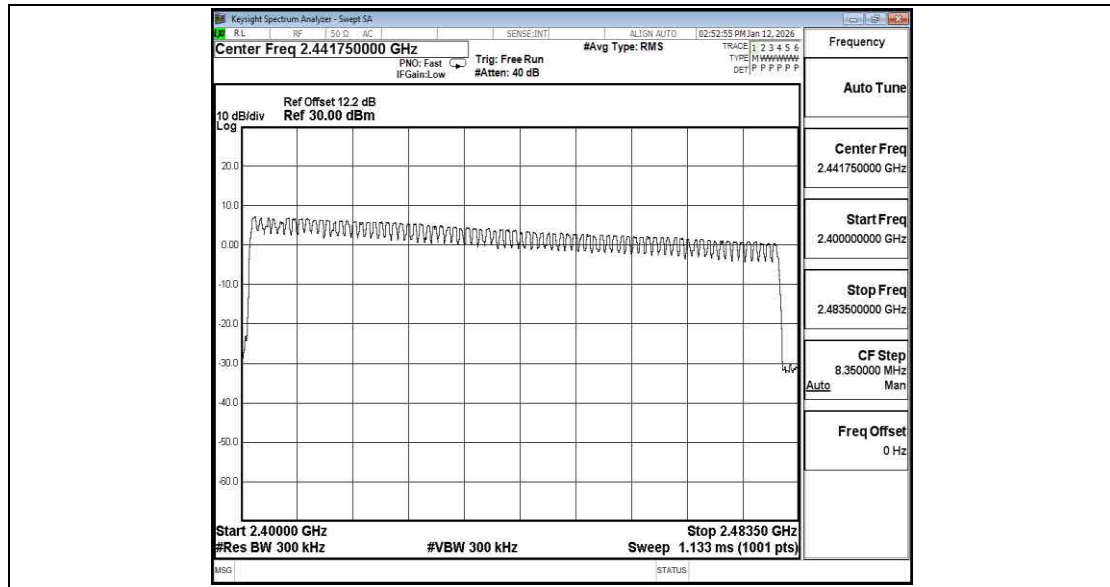
Test Result

TestMode	Antenna	Freq(MHz)	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Note :offset=System attenuation +cabal loss

Test Graphs





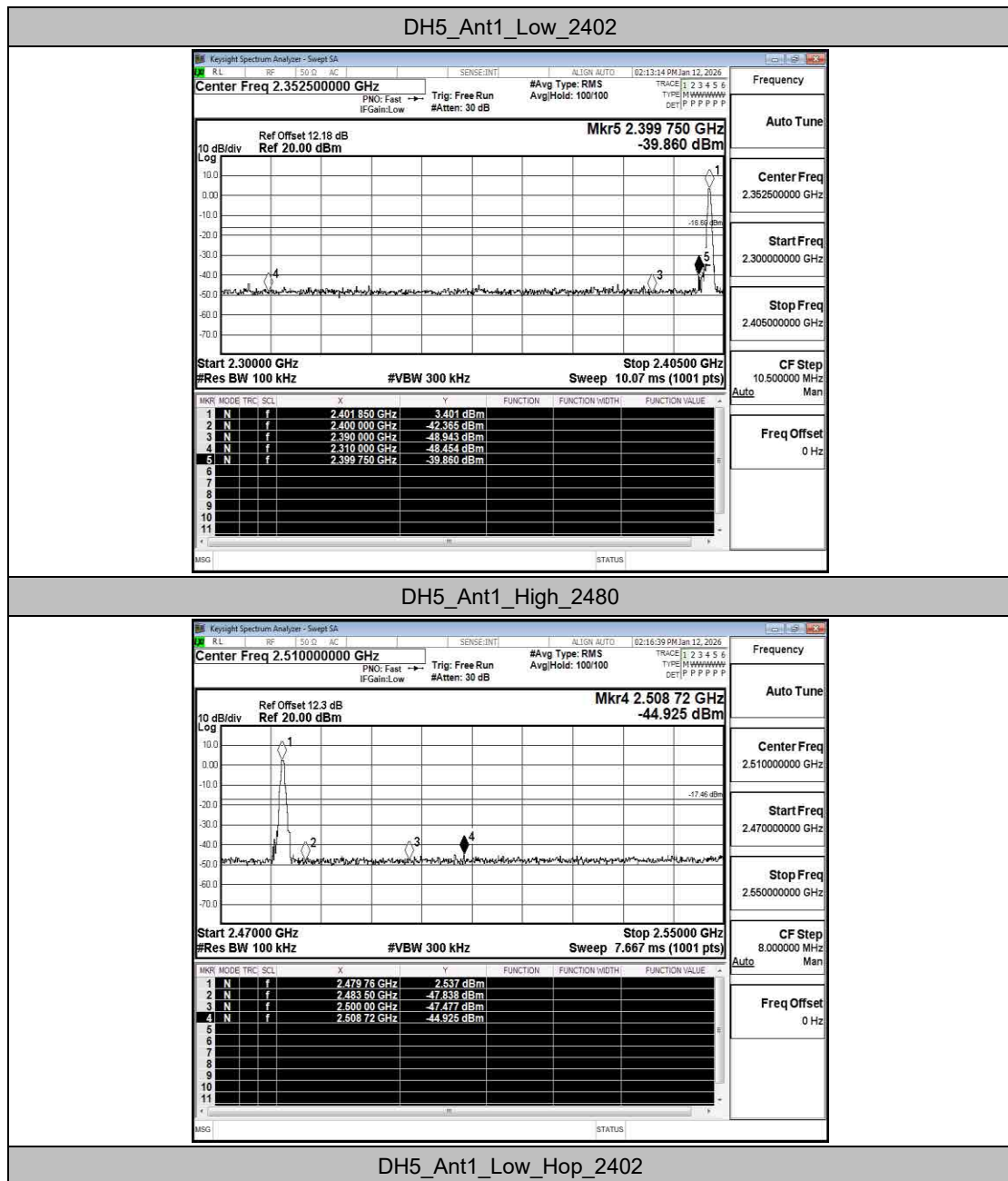
A.6 Band edge measurements

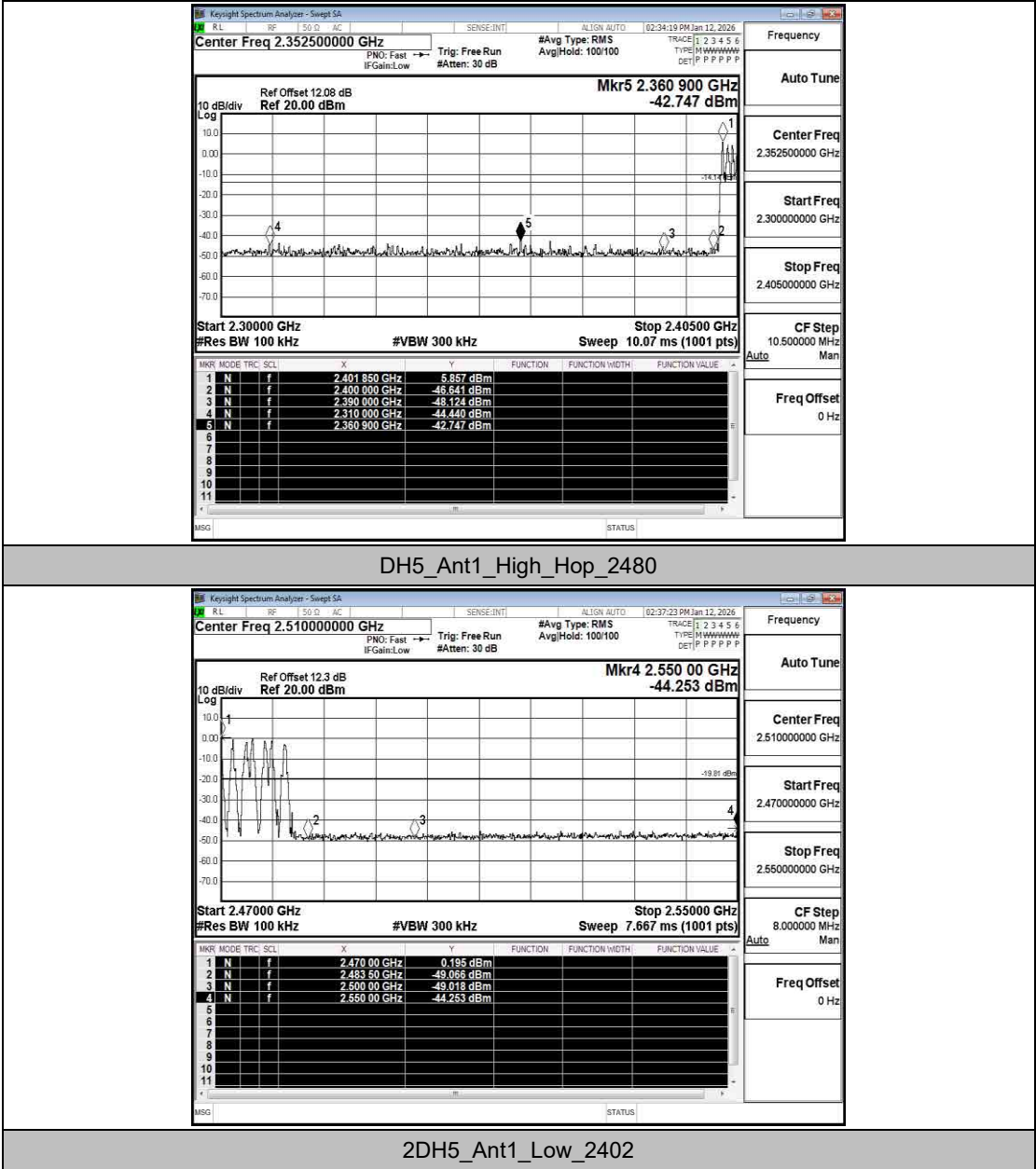
Test Result

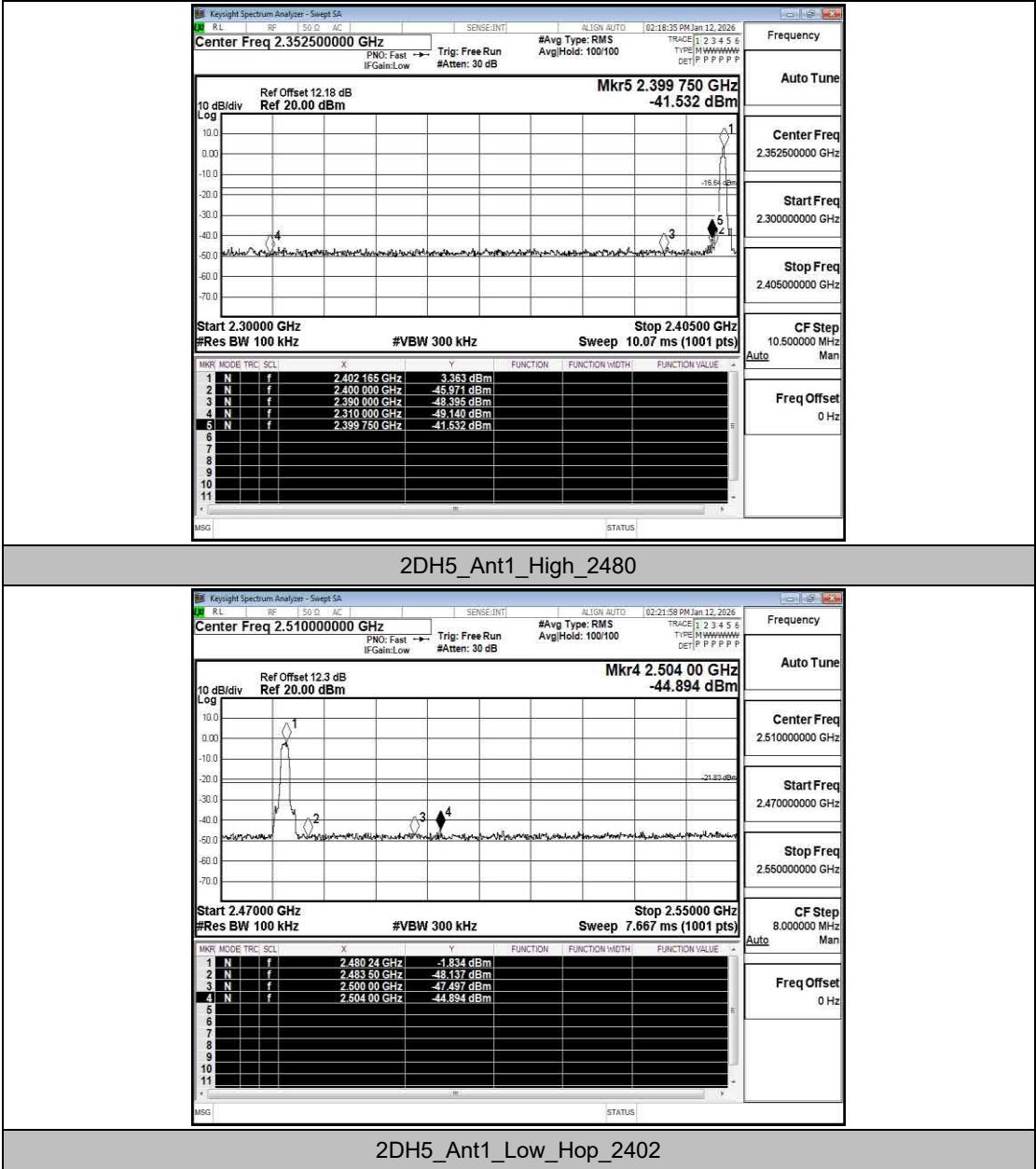
TestMode	Antenna	ChName	Freq(MHz)	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	3.40	-39.86	≤-16.6	PASS
		High	2480	2.54	-44.93	≤-17.46	PASS
		Low	Hop_2402	5.86	-42.75	≤-14.14	PASS
		High	Hop_2480	0.20	-44.25	≤-19.81	PASS
2DH5	Ant1	Low	2402	3.36	-41.53	≤-16.64	PASS
		High	2480	-1.83	-44.89	≤-21.83	PASS
		Low	Hop_2402	1.61	-41.32	≤-18.39	PASS
		High	Hop_2480	-4.05	-44.91	≤-24.05	PASS
3DH5	Ant1	Low	2402	2.02	-44.2	≤-17.98	PASS
		High	2480	0.93	-44.94	≤-19.07	PASS
		Low	Hop_2402	0.19	-44.83	≤-19.81	PASS
		High	Hop_2480	-4.16	-44.75	≤-24.16	PASS

Note :offset=System attenuation +cabal loss

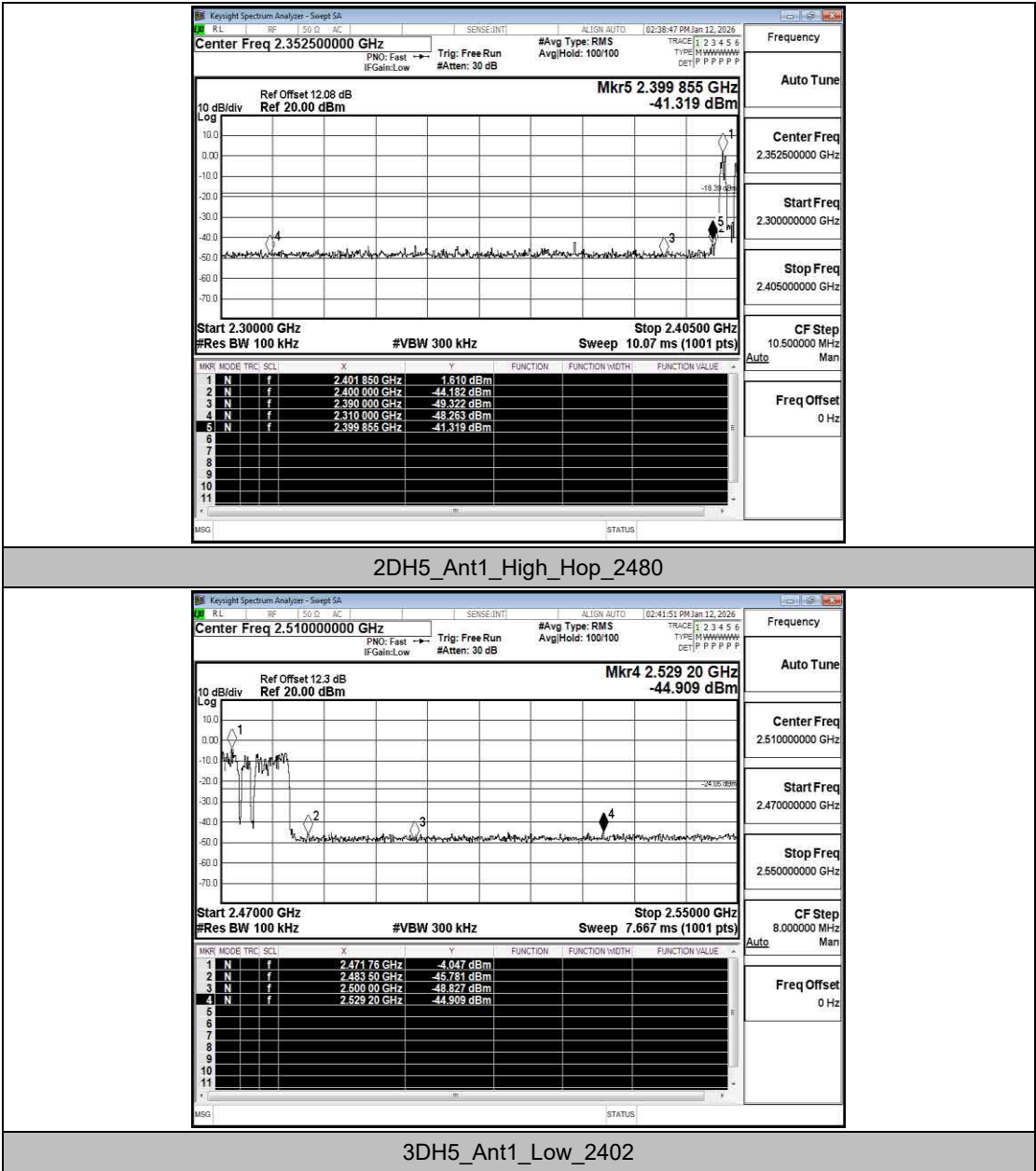
Test Graphs

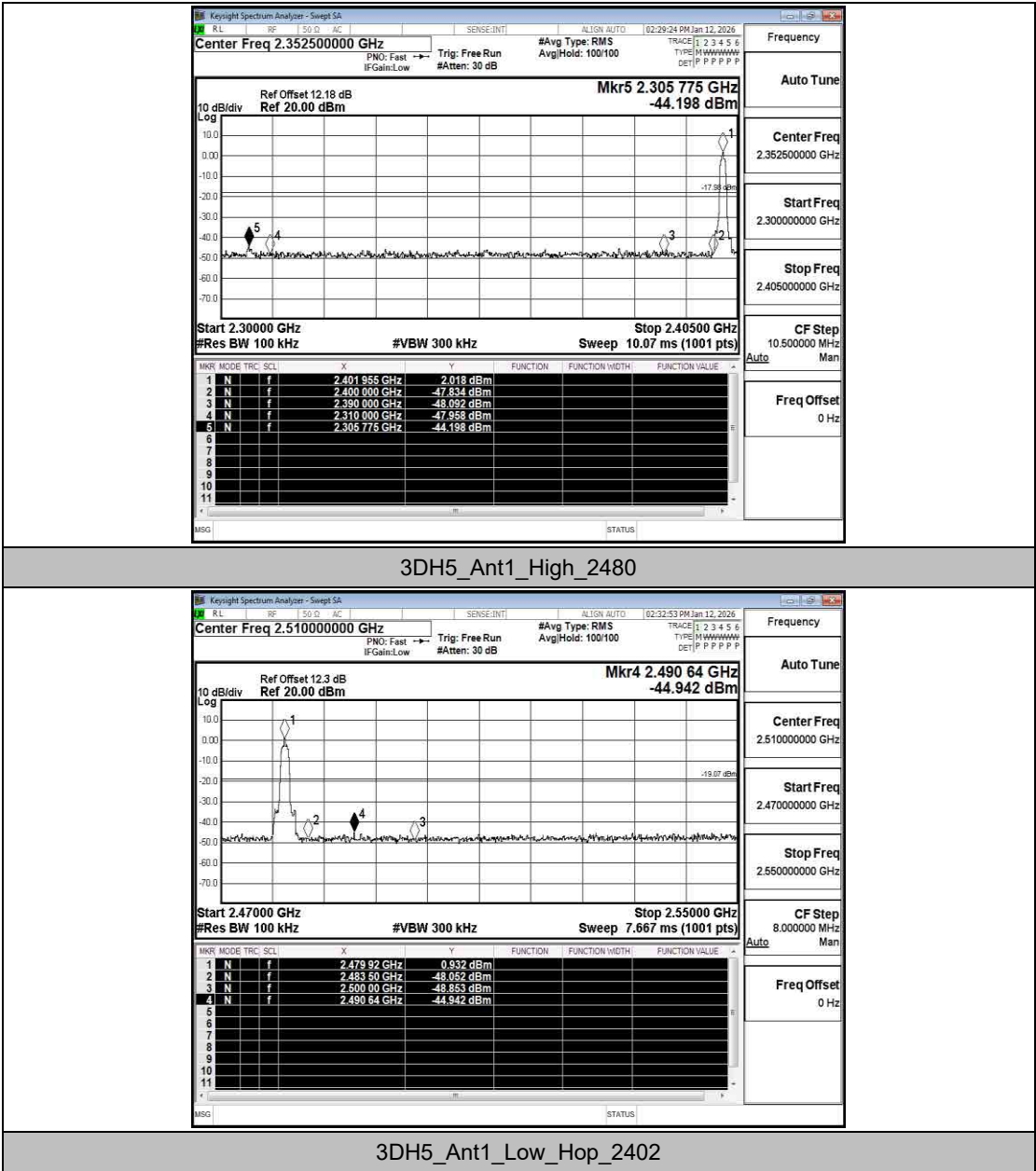


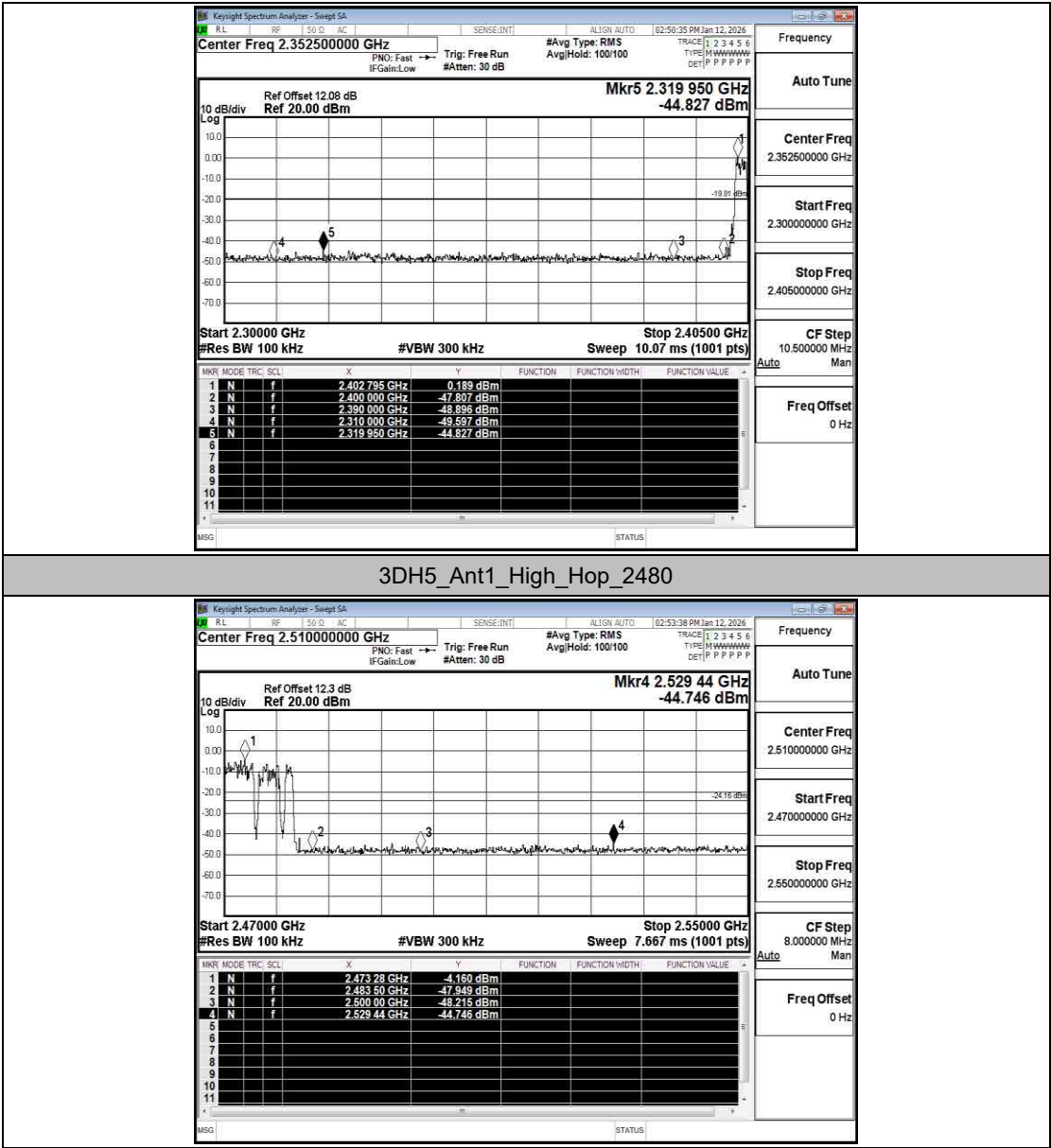




2DH5_Ant1_Low_Hop_2402







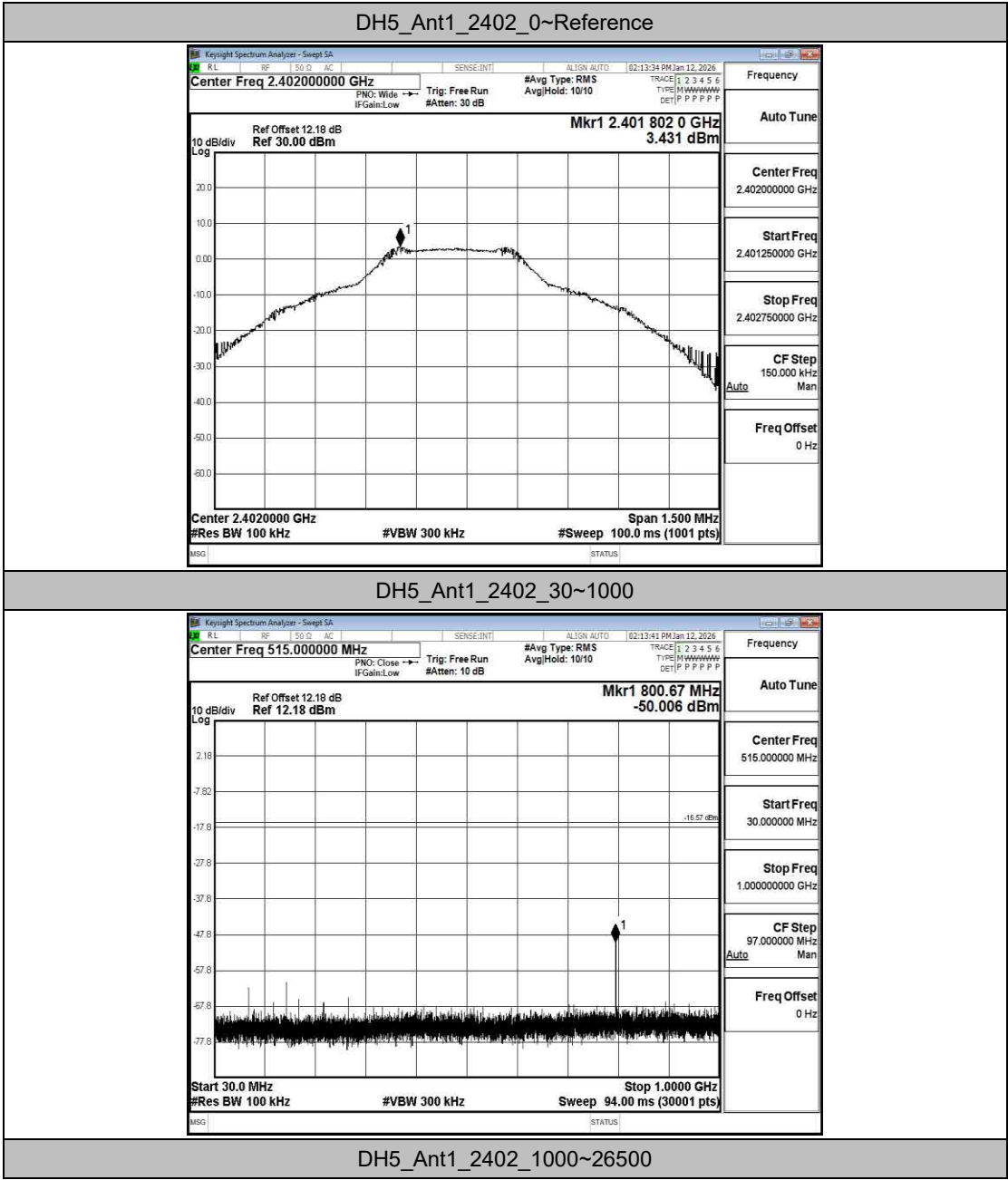
A.7 Conducted Spurious Emission

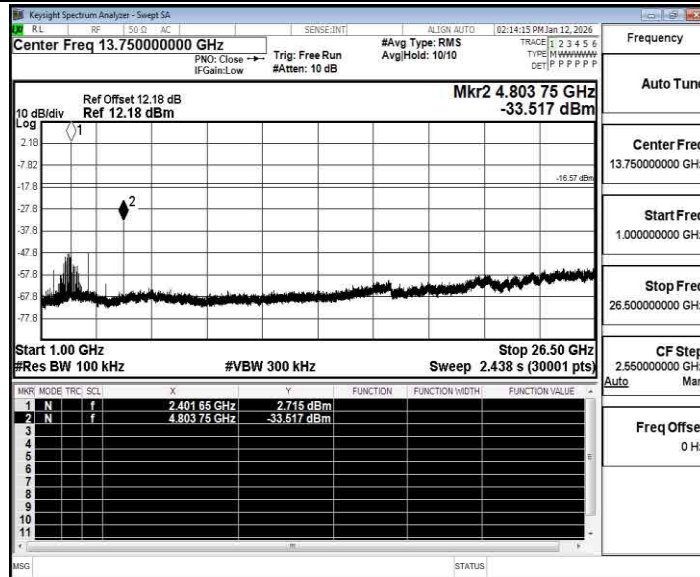
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	3.43	3.43	---	PASS
			30~1000	3.43	-50.01	≤-16.57	PASS
			1000~26500	3.43	-33.52	≤-16.57	PASS
		2441	Reference	3.30	3.30	---	PASS
			30~1000	3.30	-48.95	≤-16.7	PASS
			1000~26500	3.30	-31.71	≤-16.7	PASS
		2480	Reference	2.55	2.55	---	PASS
			30~1000	2.55	-48.13	≤-17.45	PASS
			1000~26500	2.55	-36.61	≤-17.45	PASS
2DH5	Ant1	2402	Reference	3.42	3.42	---	PASS
			30~1000	3.42	-54.67	≤-16.58	PASS
			1000~26500	3.42	-40.84	≤-16.58	PASS
		2441	Reference	3.34	3.34	---	PASS
			30~1000	3.34	-49.68	≤-16.66	PASS
			1000~26500	3.34	-32.93	≤-16.66	PASS
		2480	Reference	2.57	2.57	---	PASS
			30~1000	2.57	-49.93	≤-17.43	PASS
			1000~26500	2.57	-34.15	≤-17.43	PASS
3DH5	Ant1	2402	Reference	3.48	3.48	---	PASS
			30~1000	3.48	-52.08	≤-16.52	PASS
			1000~26500	3.48	-39.86	≤-16.52	PASS
		2441	Reference	3.41	3.41	---	PASS
			30~1000	3.41	-55.19	≤-16.59	PASS
			1000~26500	3.41	-34.45	≤-16.59	PASS
		2480	Reference	2.62	2.62	---	PASS
			30~1000	2.62	-53.64	≤-17.38	PASS
			1000~26500	2.62	-42.77	≤-17.38	PASS

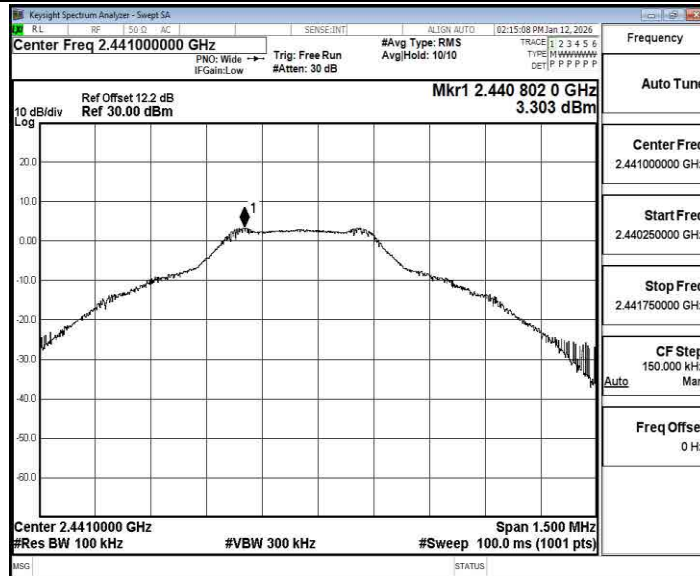
Note : Regarding the spurious emissions from 30MHz to 26.5GHz, the cable lose have been set in the CORREC' of the Spectrum Analyzer during the test.

Test Graphs

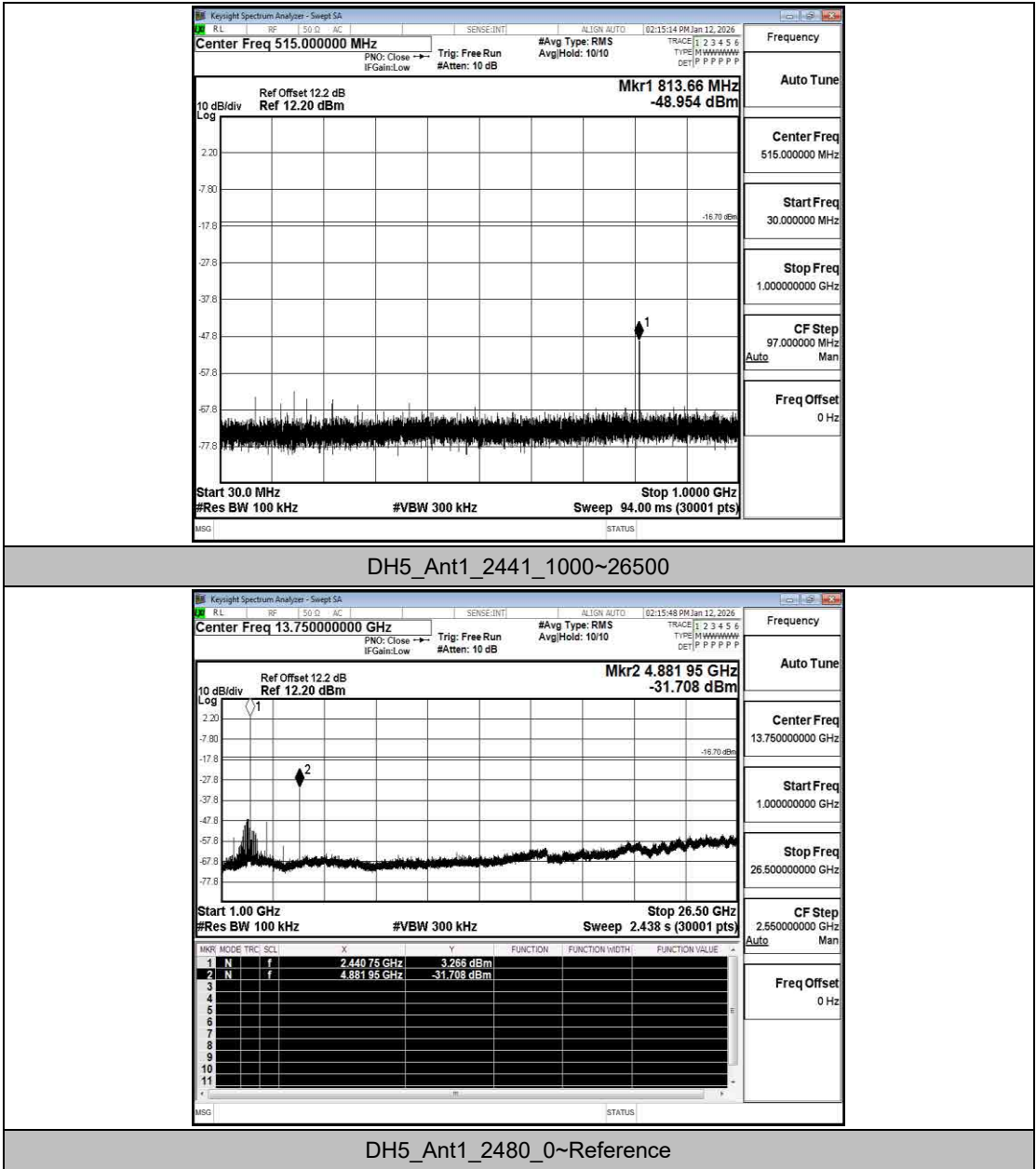


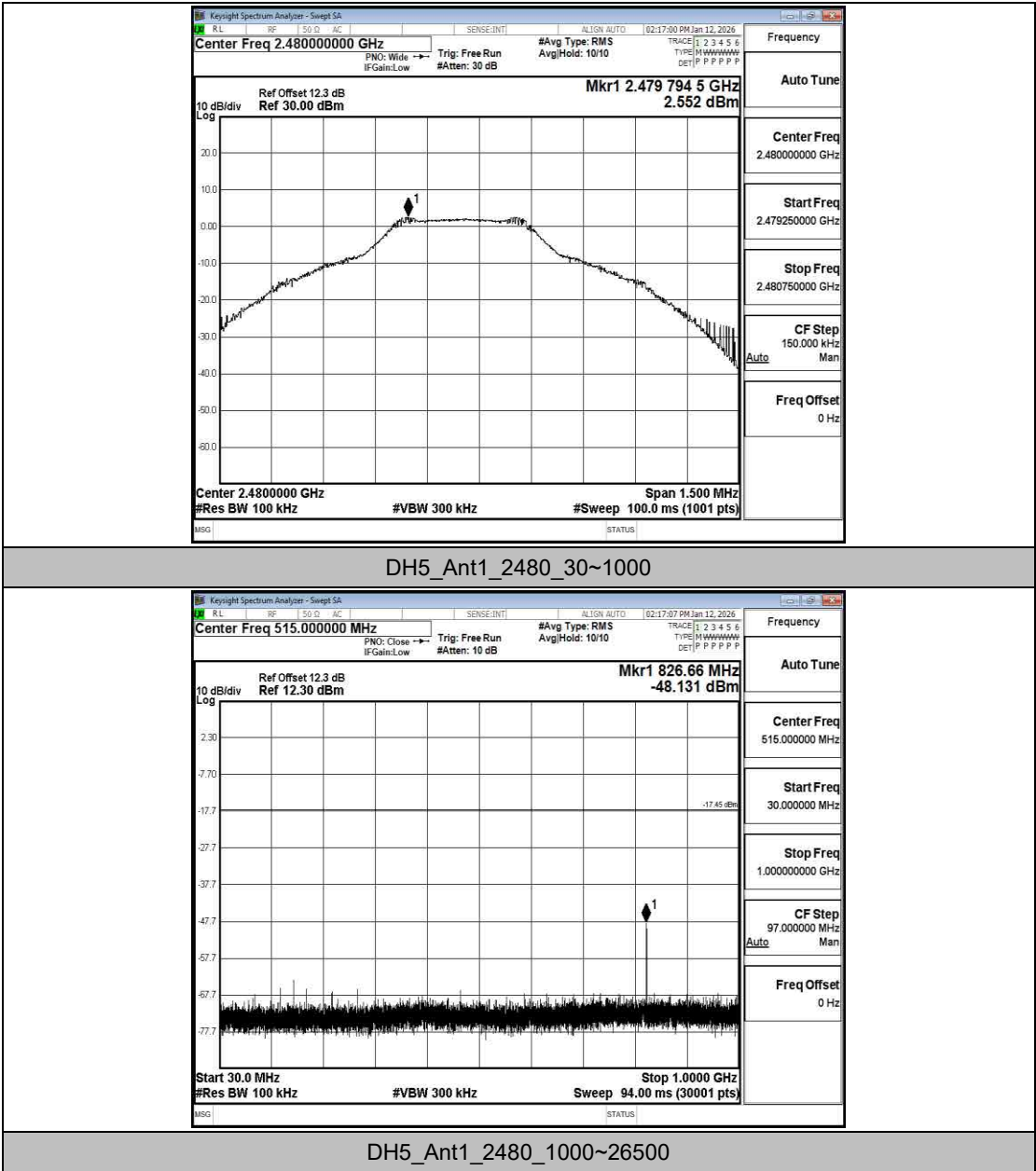


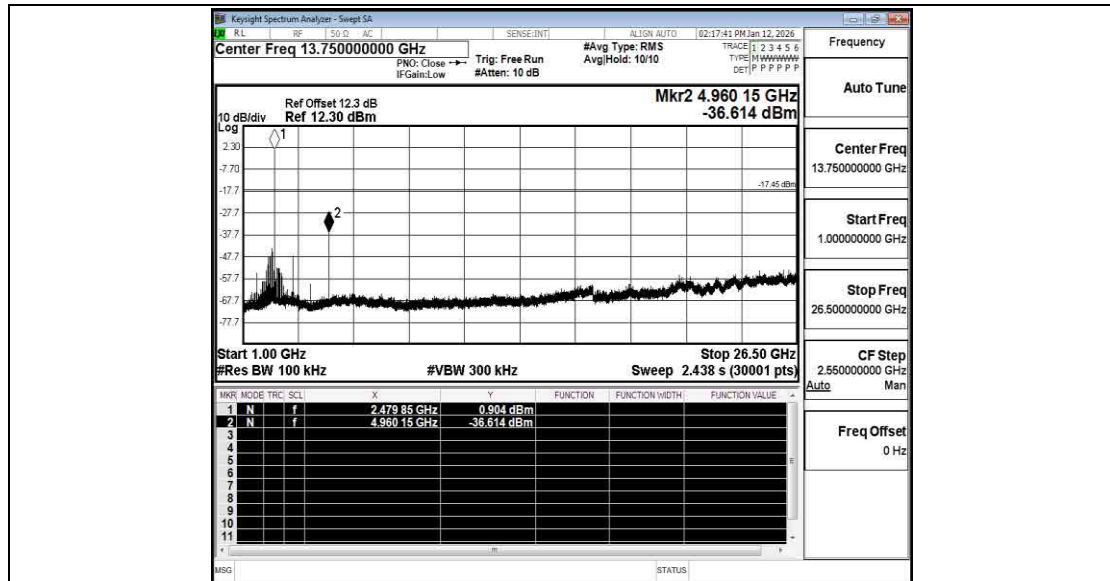
DH5_Ant1_2441_0~Reference



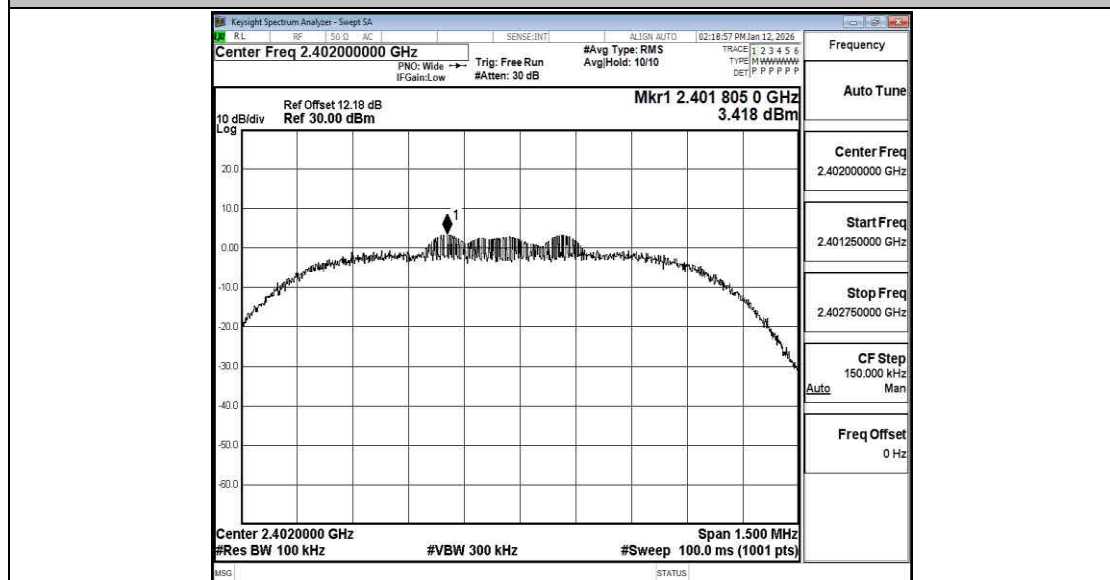
DH5_Ant1_2441_30~1000



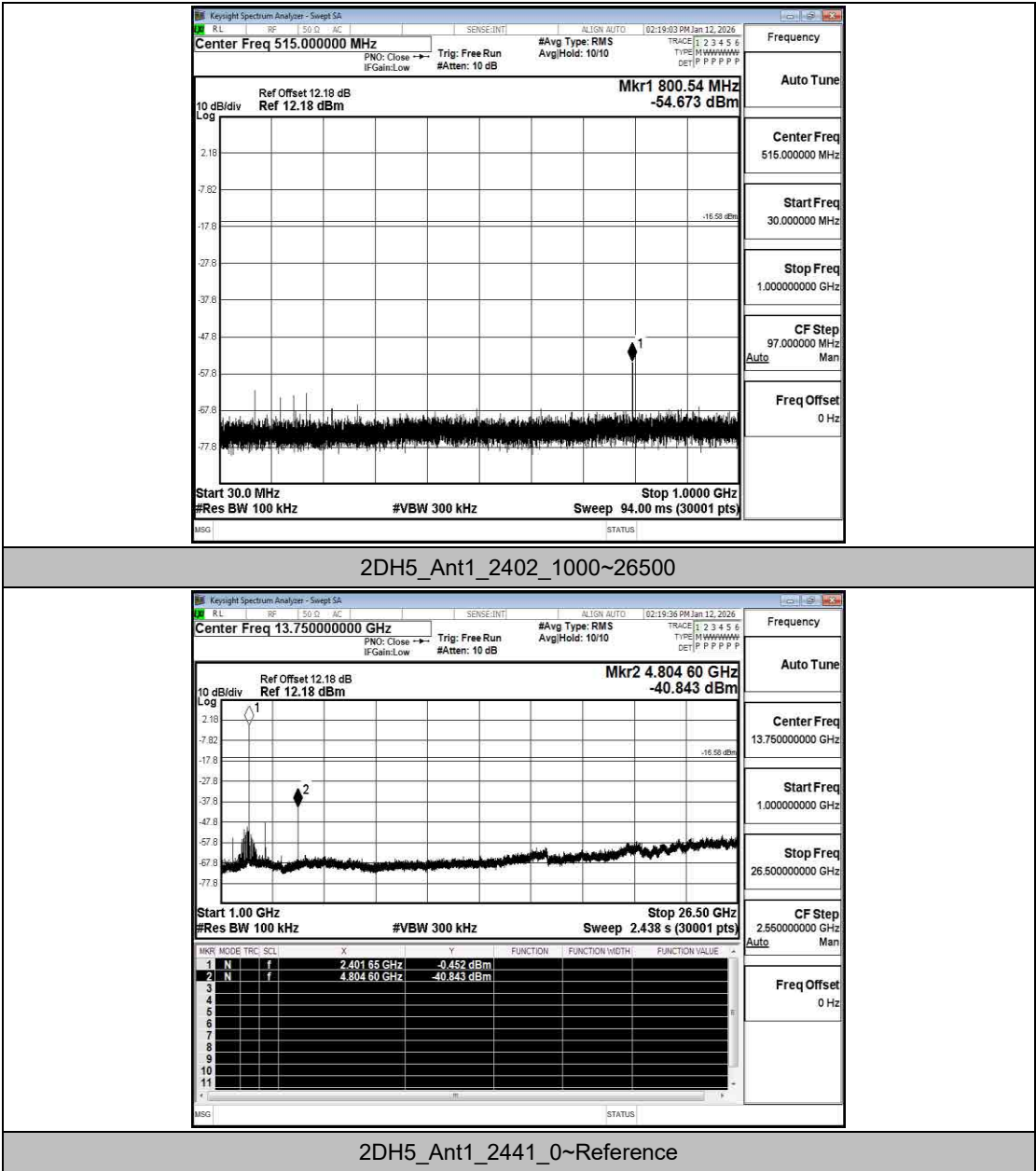


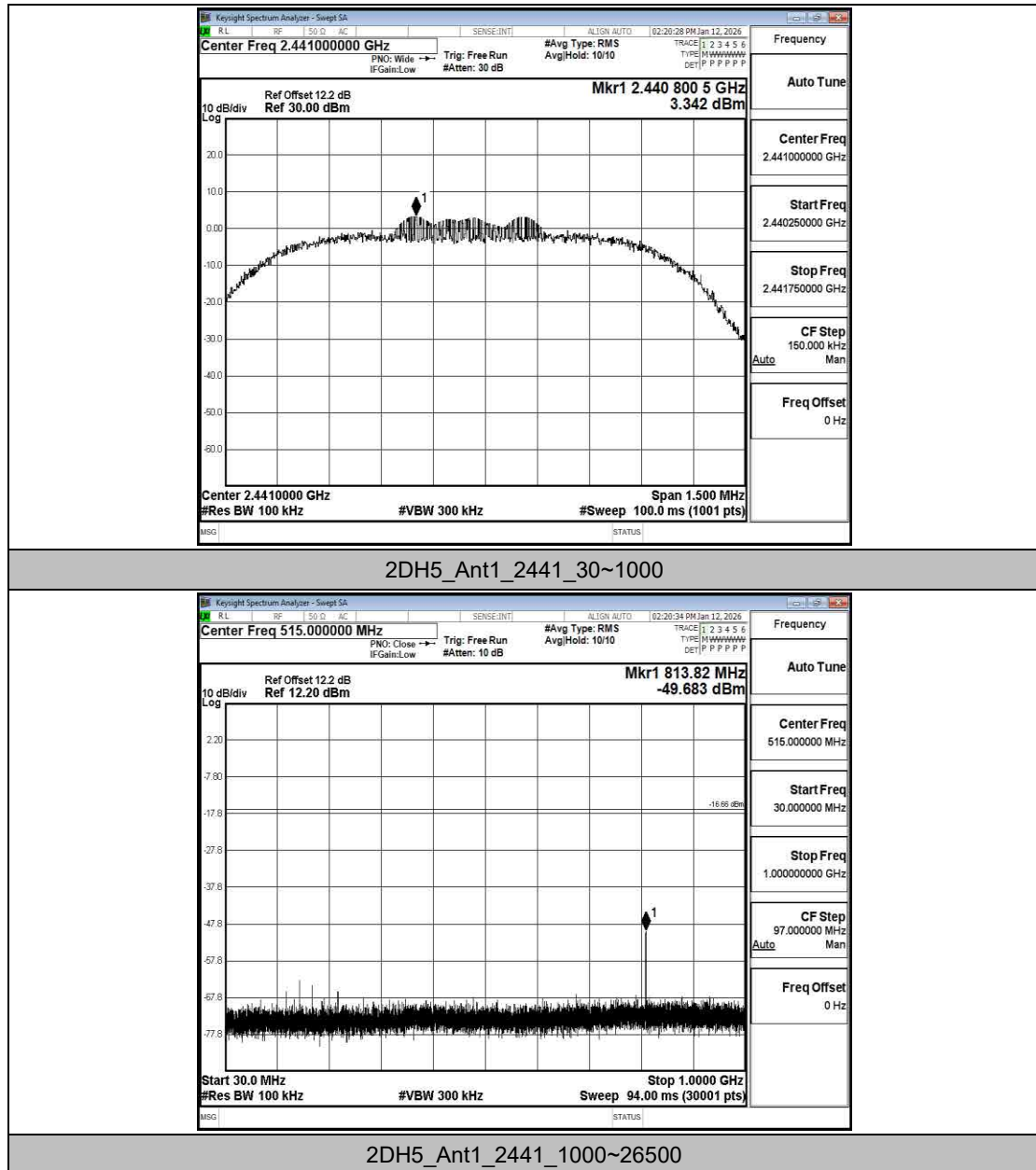


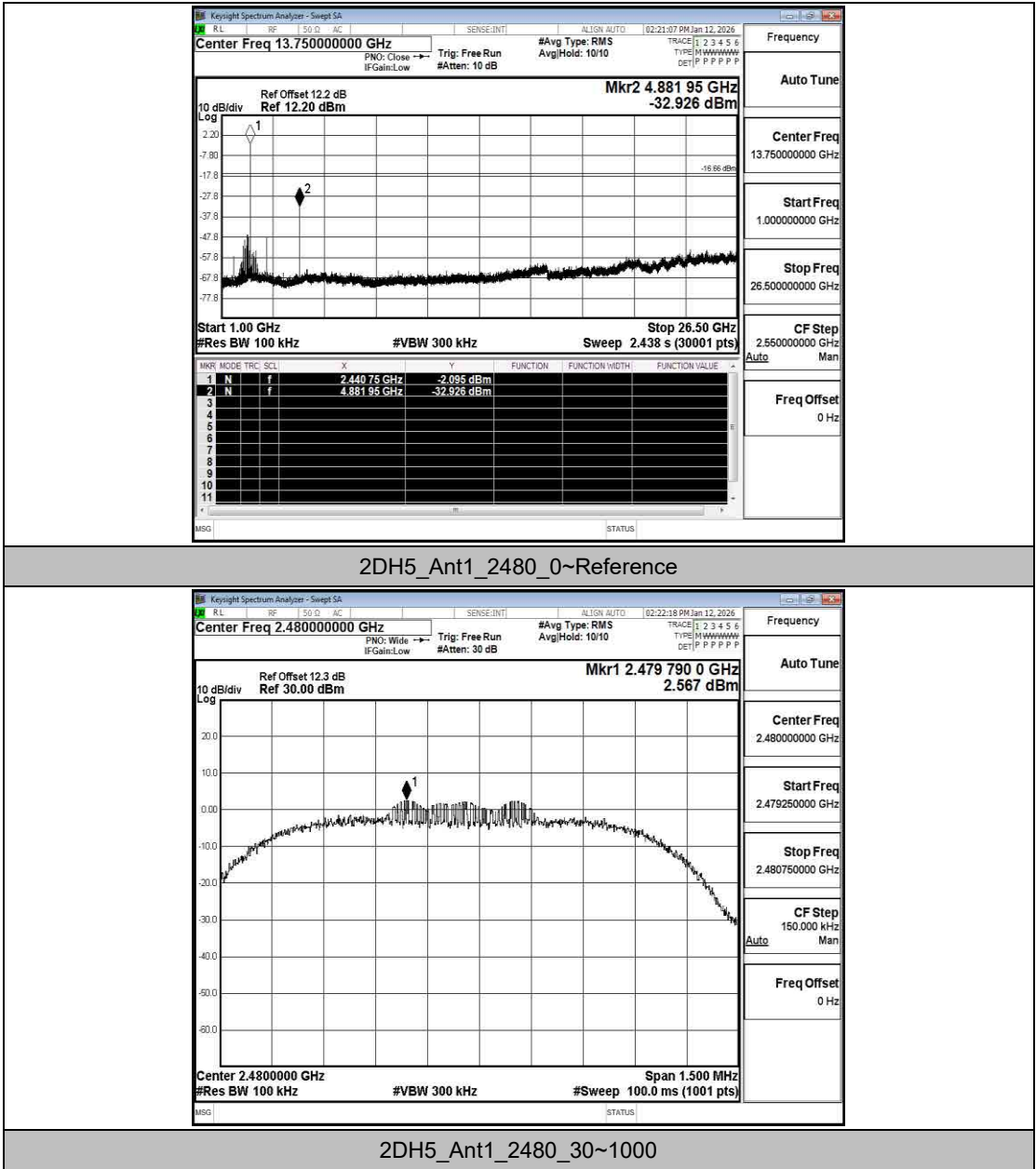
2DH5_Ant1_2402_0~Reference

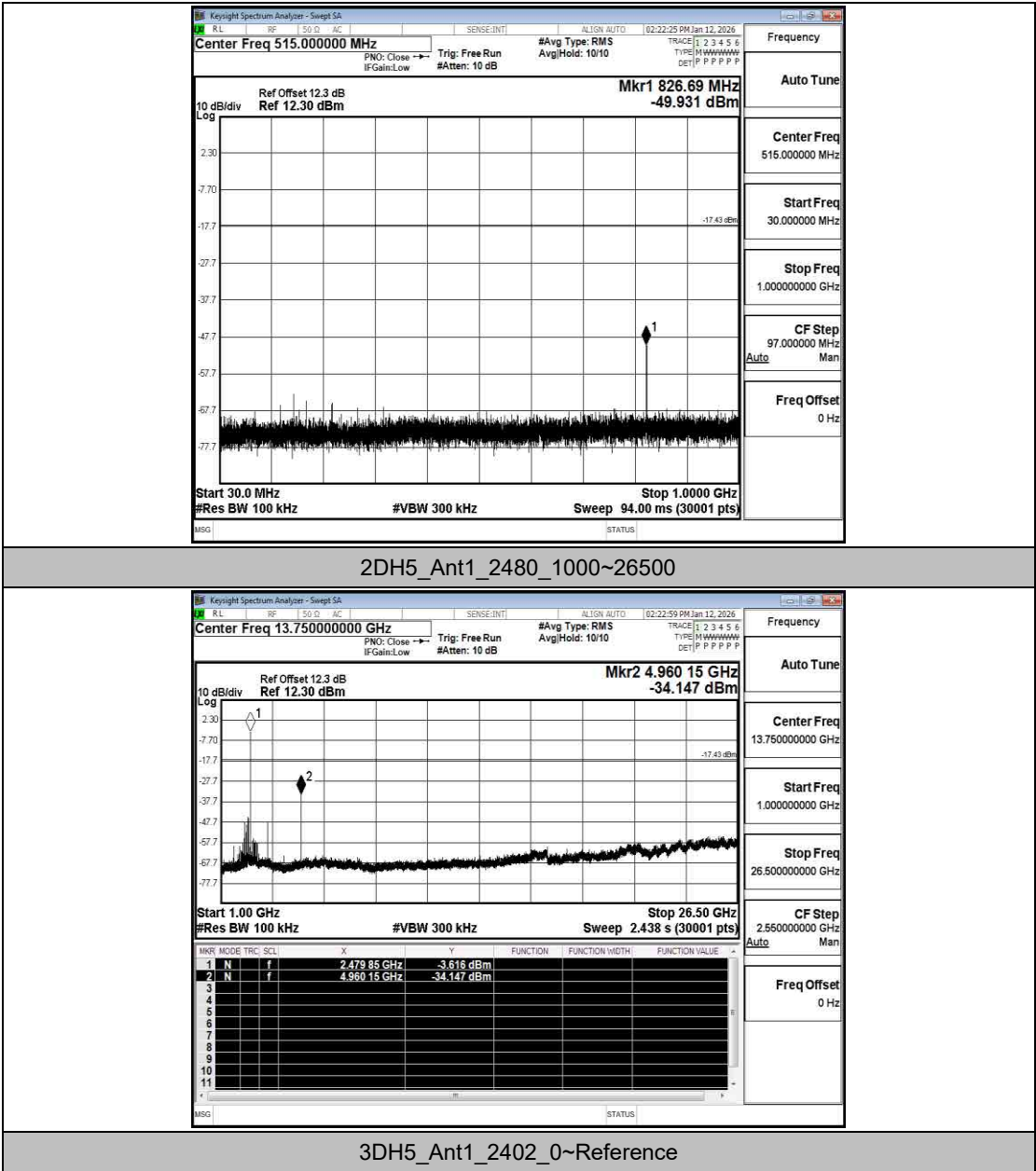


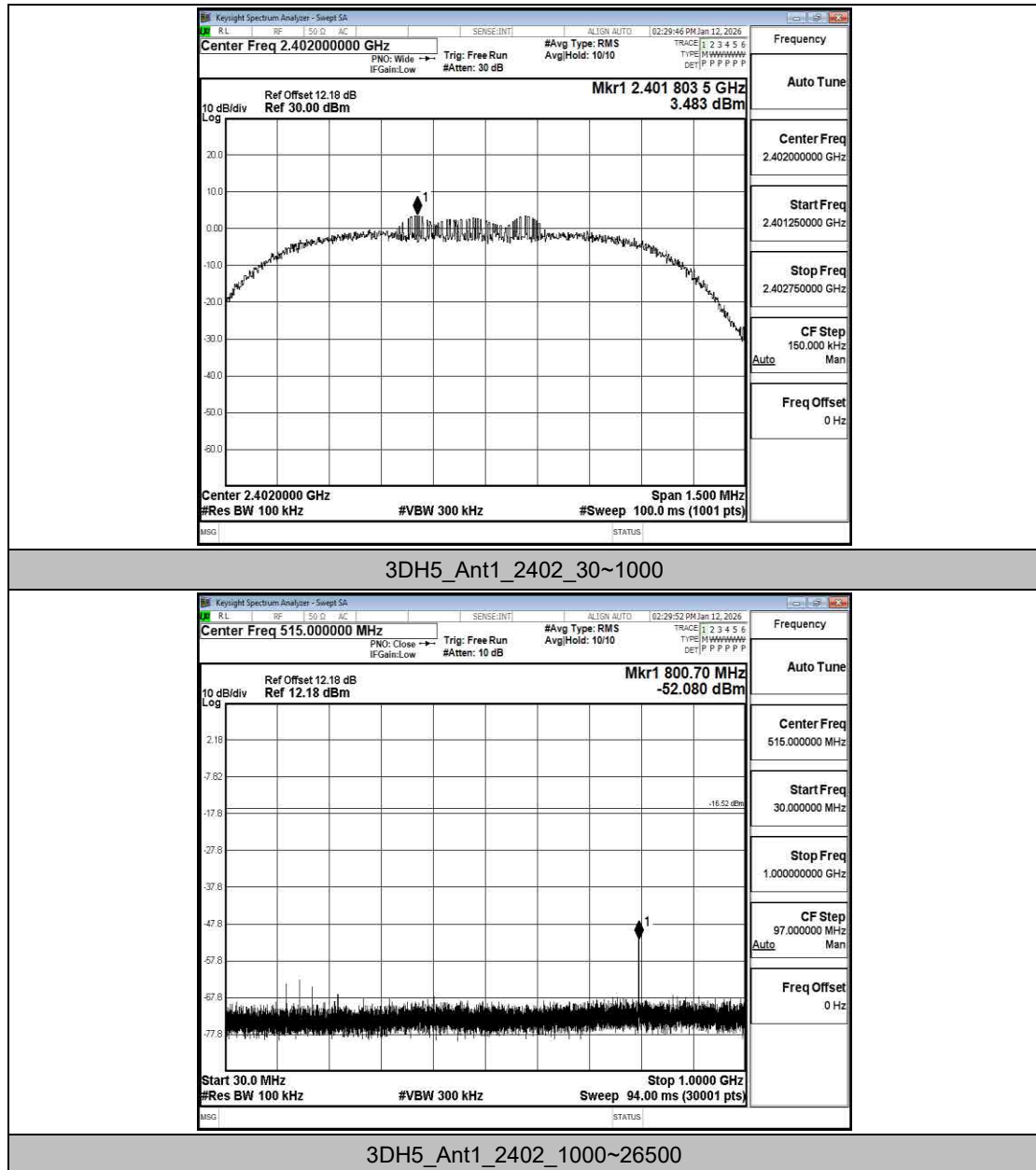
2DH5_Ant1_2402_30~1000

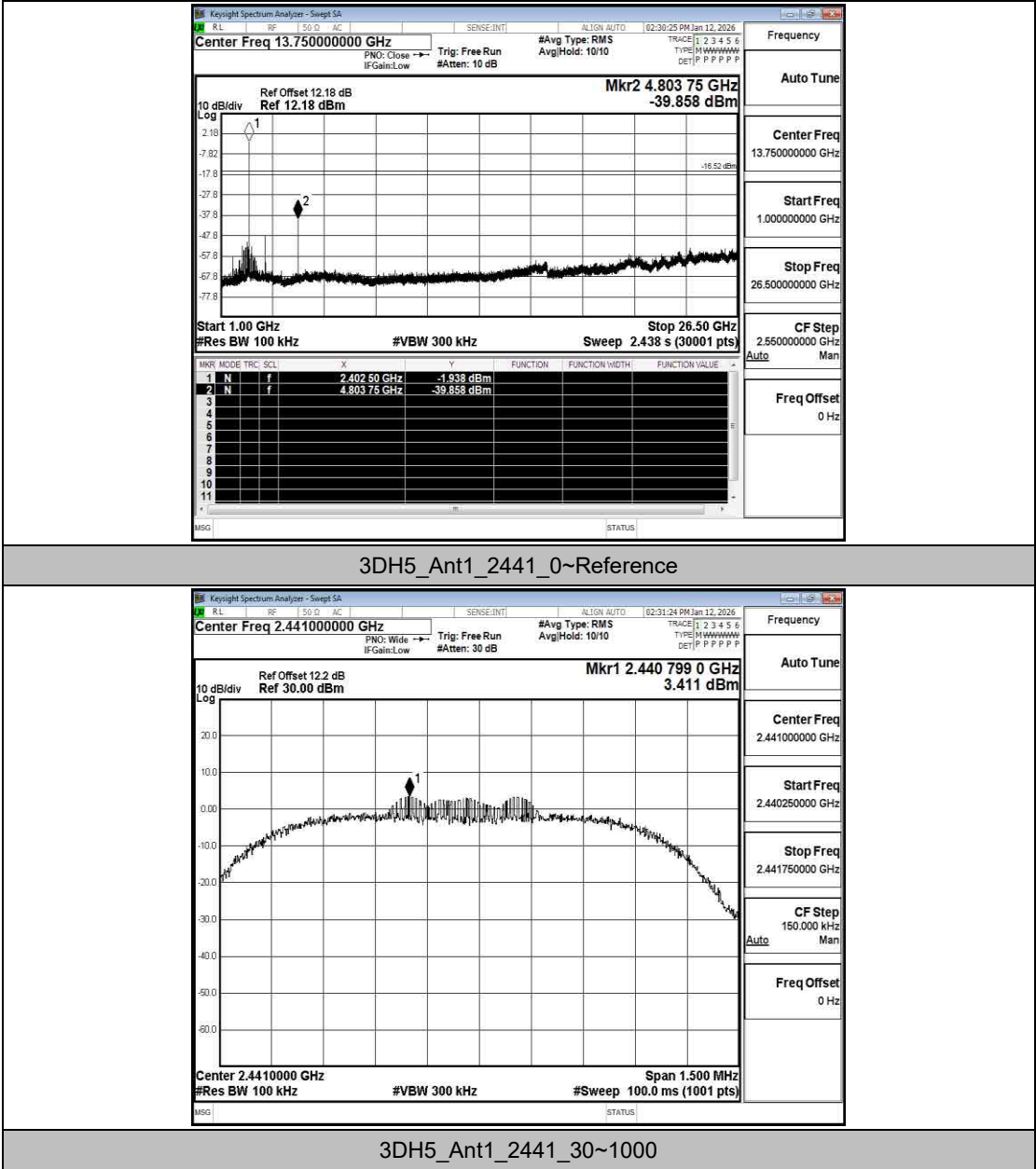


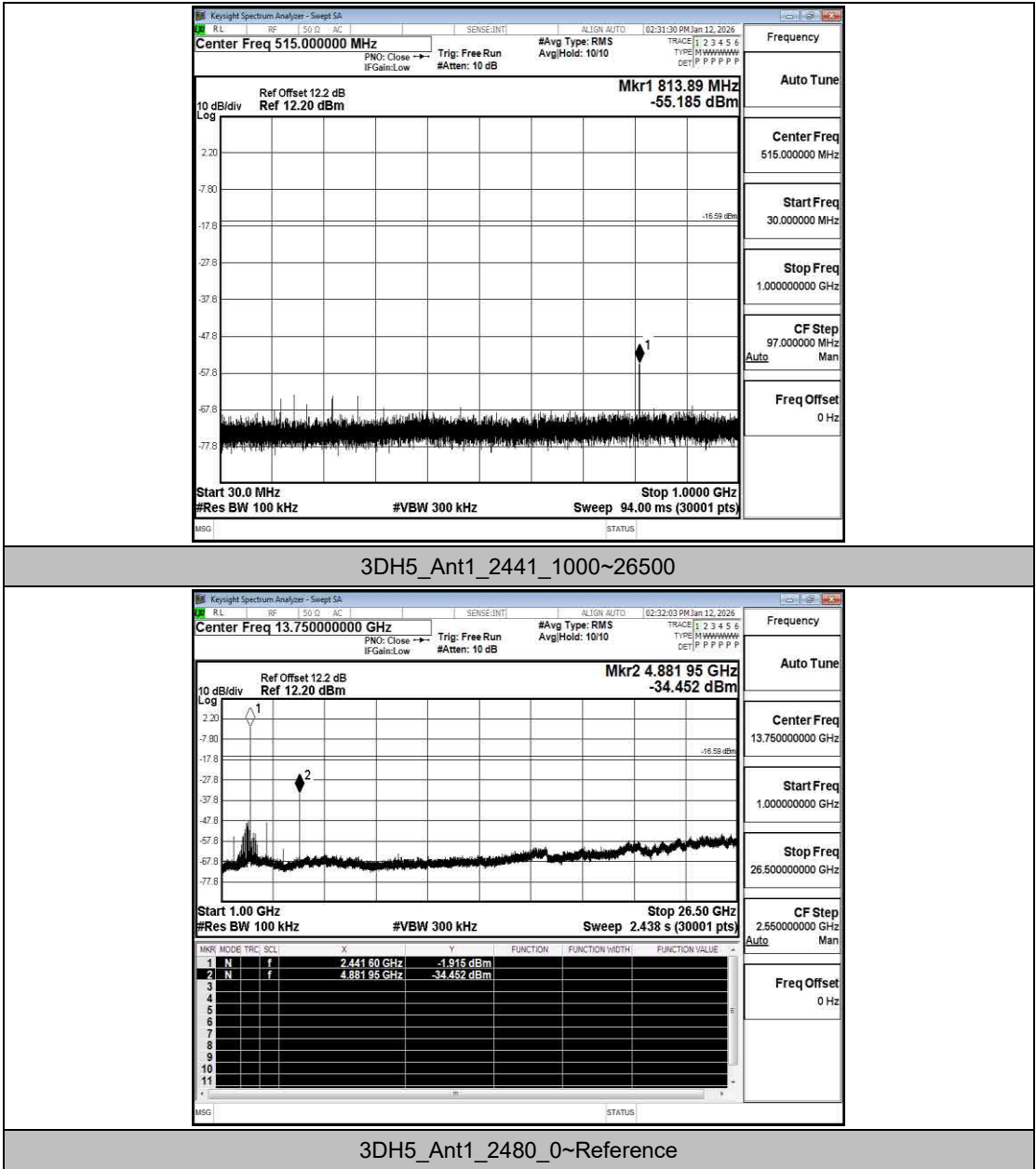


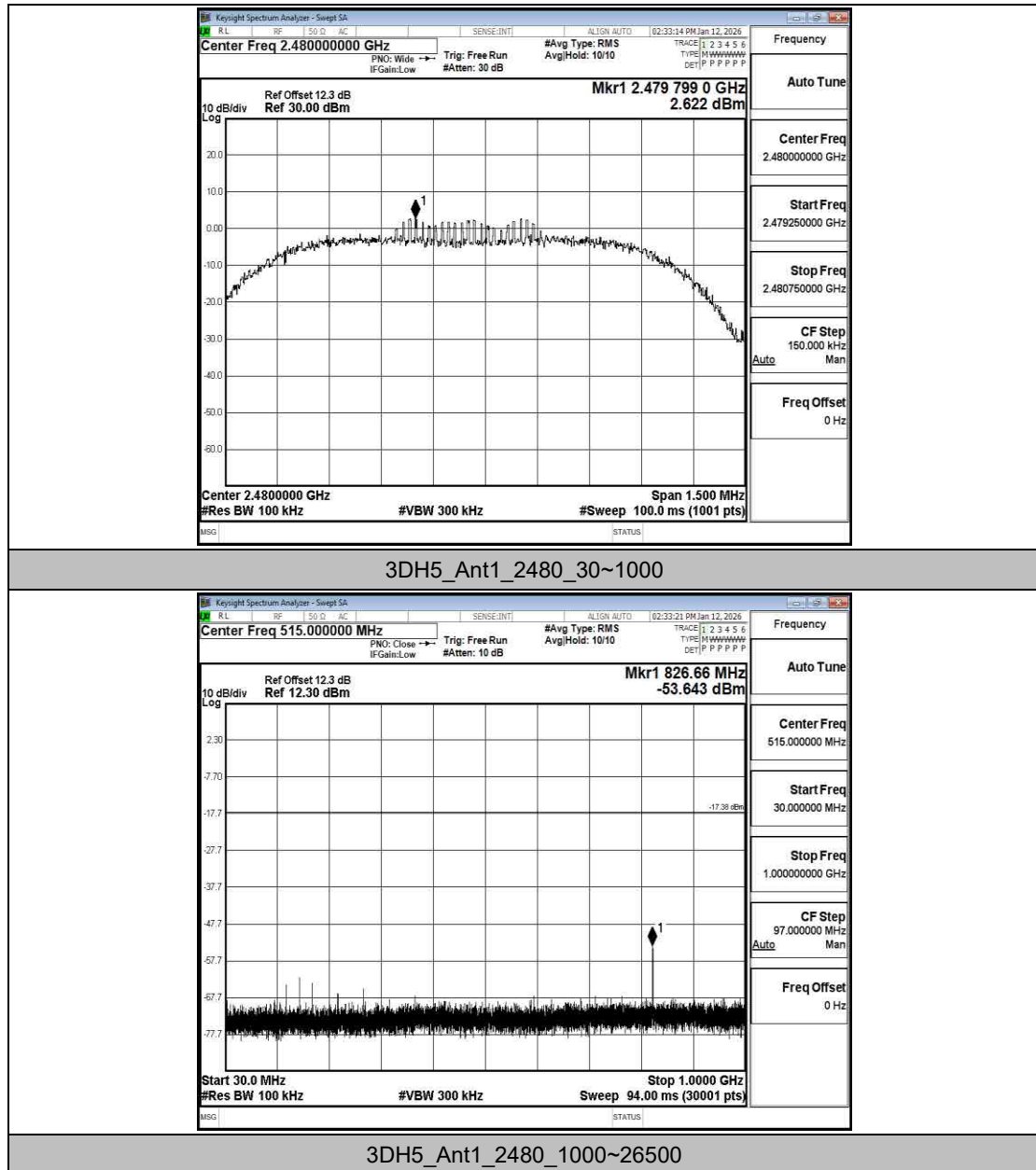


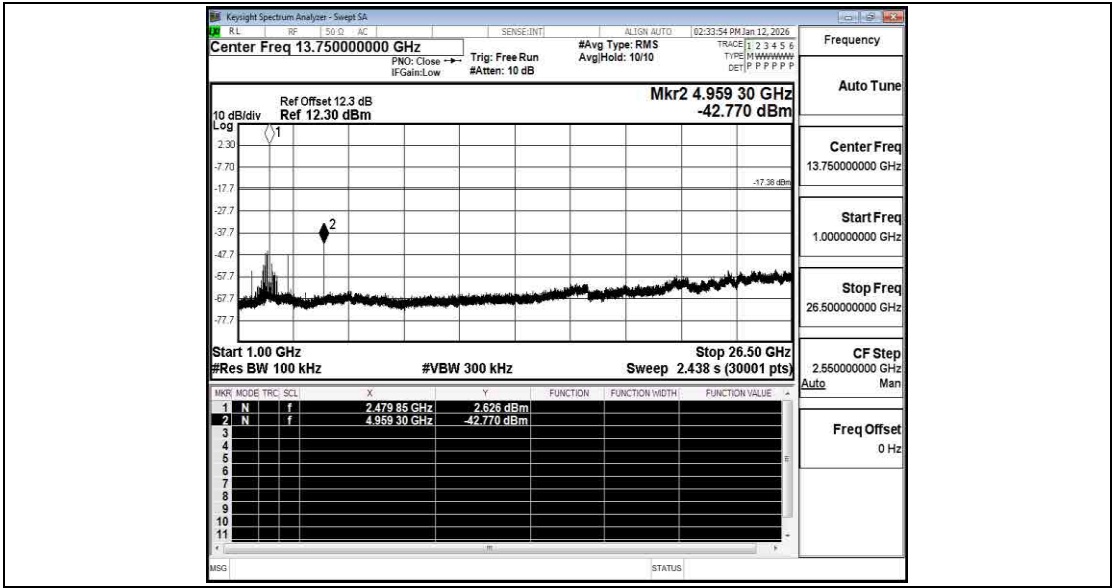












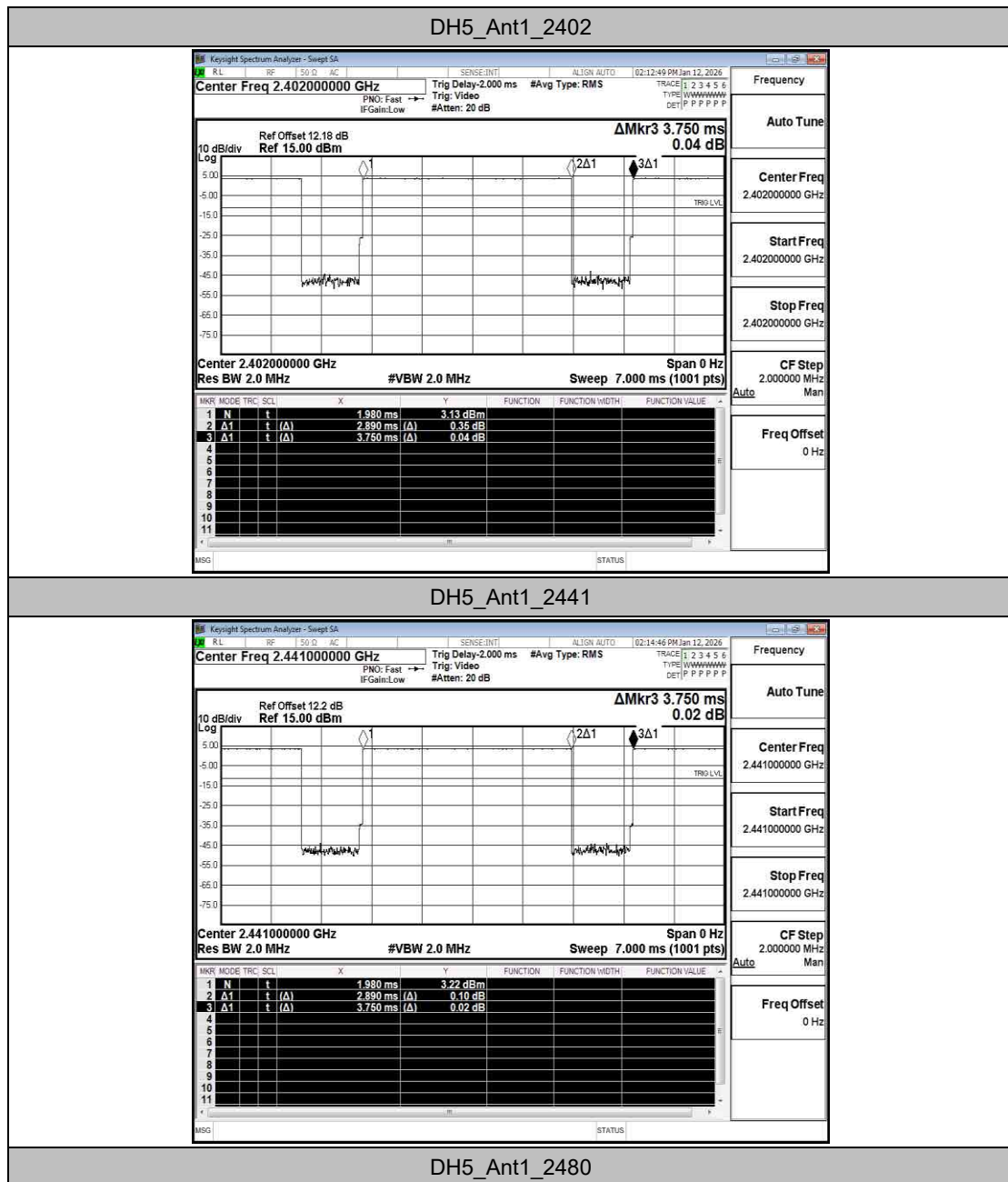
A.8 Duty Cycle

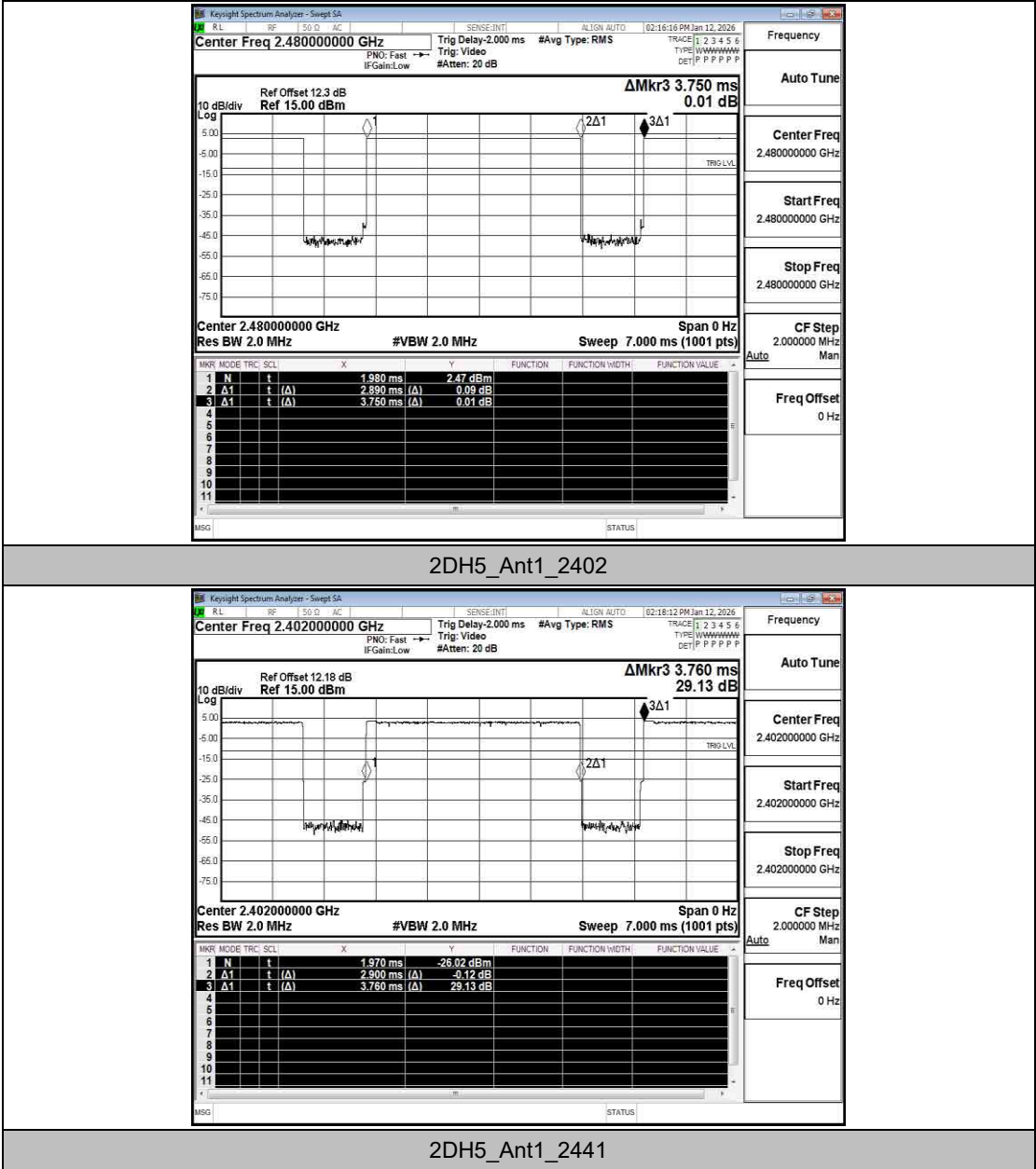
Test Result

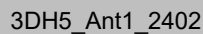
TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
2DH5	Ant1	2402	2.90	3.76	77.13	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.89	3.75	77.07	1.13	---	---
3DH5	Ant1	2402	2.89	3.75	77.07	1.13	---	---
		2441	2.89	3.75	77.07	1.13	---	---
		2480	2.88	3.74	77.01	1.13	---	---

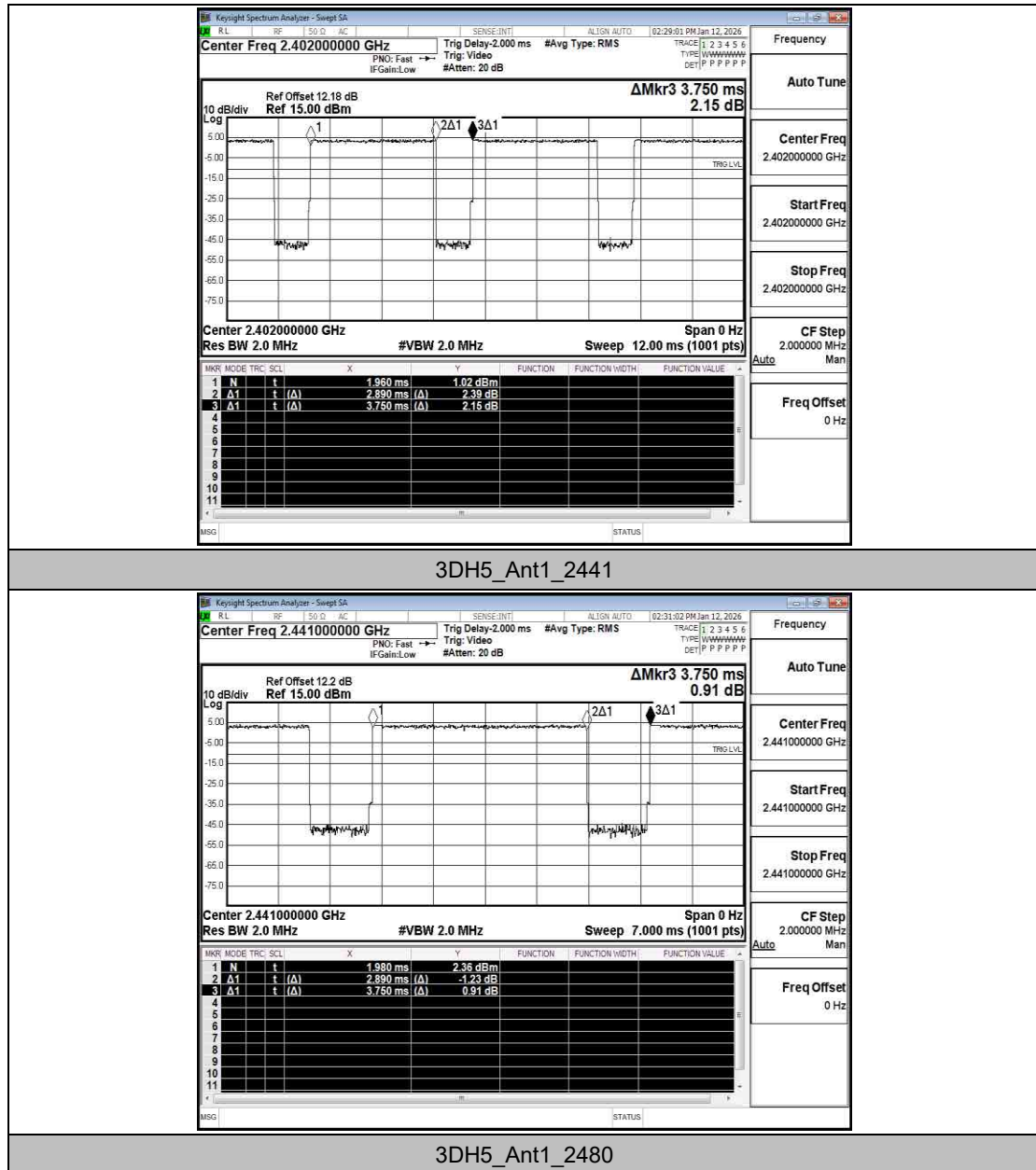
Note :offset=System attenuation +cabal loss

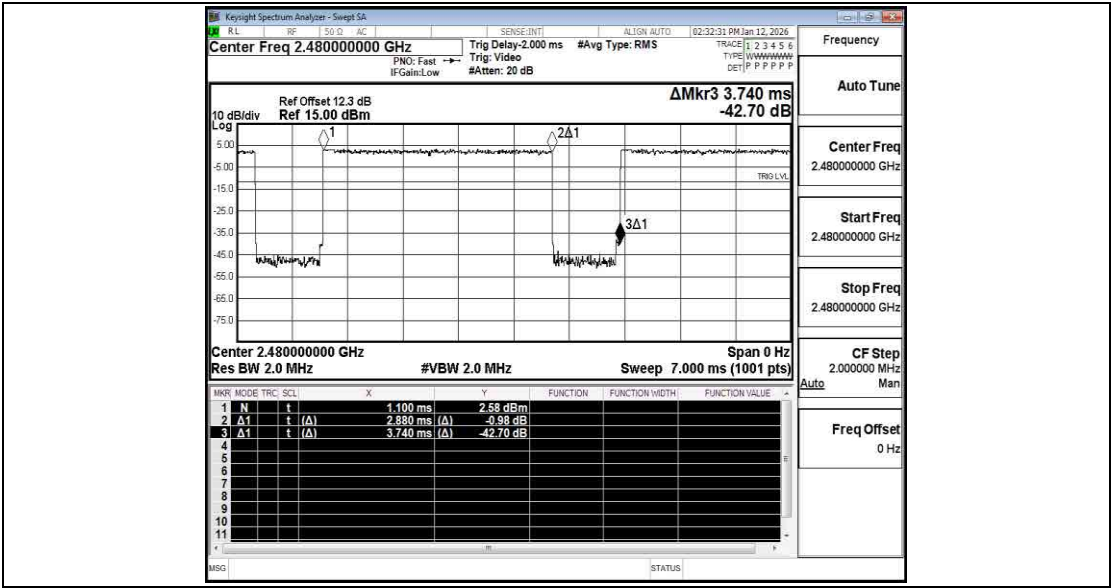
Test Graphs











A.9 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
DH5	Ant1	Low	2402	AV	2310.000	-60.85	≤-44.33	2.00	1.13	37.48	≤54	PASS
				AV	2378.015	-50.26	≤-44.33	2.00	1.13	48.07	≤54	PASS
				AV	2390.000	-60.03	≤-44.33	2.00	1.13	38.30	≤54	PASS
				Peak	2310.000	-53.12	≤-23.20	2.00	0.00	44.08	≤74	PASS
				Peak	2353.865	-44.2	≤-23.20	2.00	0.00	53.00	≤74	PASS
				Peak	2390.000	-51.04	≤-23.20	2.00	0.00	46.16	≤74	PASS
		High	2480	AV	2483.500	-58.94	≤-44.33	2.00	1.13	39.39	≤54	PASS
				AV	2483.600	-58.51	≤-44.33	2.00	1.13	39.82	≤54	PASS
				AV	2500.000	-60.6	≤-44.33	2.00	1.13	37.73	≤54	PASS
				Peak	2483.500	-50.45	≤-23.20	2.00	0.00	46.75	≤74	PASS
				Peak	2483.680	-49.06	≤-23.20	2.00	0.00	48.14	≤74	PASS
				Peak	2500.000	-48.33	≤-23.20	2.00	0.00	48.87	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-44.92	≤-23.20	2.00	0.00	52.28	≤74	PASS
				Peak	2333.180	-41.53	≤-23.20	2.00	0.00	55.67	≤74	PASS
				Peak	2390.000	-49.49	≤-23.20	2.00	0.00	47.71	≤74	PASS
		High	Hop_2480	Peak	2483.500	-51.39	≤-23.20	2.00	0.00	45.81	≤74	PASS
				Peak	2488.400	-50.06	≤-23.20	2.00	0.00	47.14	≤74	PASS
				Peak	2500.000	-53.41	≤-	2.00	0.00	43.79	≤74	PASS

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							23.20					
2DH5	Ant1	Low	2402	AV	2310.000	-60.43	≤- 44.33	2.00	1.13	37.90	≤54	PASS
				AV	2377.910	-51.95	≤- 44.33	2.00	1.13	46.38	≤54	PASS
				AV	2390.000	-59.59	≤- 44.33	2.00	1.13	38.74	≤54	PASS
				Peak	2310.000	-52.09	≤- 23.20	2.00	0.00	45.11	≤74	PASS
				Peak	2378.435	-45.28	≤- 23.20	2.00	0.00	51.92	≤74	PASS
				Peak	2390.000	-52.75	≤- 23.20	2.00	0.00	44.45	≤74	PASS
		High	2480	AV	2483.500	-58.97	≤- 44.33	2.00	1.13	39.36	≤54	PASS
				AV	2483.920	-58.77	≤- 44.33	2.00	1.13	39.56	≤54	PASS
				AV	2500.000	-60.59	≤- 44.33	2.00	1.13	37.74	≤54	PASS
				Peak	2483.500	-51.51	≤- 23.20	2.00	0.00	45.69	≤74	PASS
				Peak	2486.880	-48.99	≤- 23.20	2.00	0.00	48.21	≤74	PASS
				Peak	2500.000	-51.21	≤- 23.20	2.00	0.00	45.99	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-46.92	≤- 23.20	2.00	0.00	50.28	≤74	PASS
				Peak	2328.770	-41.8	≤- 23.20	2.00	0.00	55.40	≤74	PASS
				Peak	2390.000	-48.23	≤- 23.20	2.00	0.00	48.97	≤74	PASS
		High	Hop_2480	Peak	2483.500	-52.82	≤- 23.20	2.00	0.00	44.38	≤74	PASS
				Peak	2498.880	-46.8	≤- 23.20	2.00	0.00	50.40	≤74	PASS
				Peak	2500.000	-51.14	≤- 23.20	2.00	0.00	46.06	≤74	PASS
3DH5	Ant1	Low	2402	AV	2310.000	-61.16	≤- 44.33	2.00	1.13	37.17	≤54	PASS
				AV	2378.015	-51.89	≤- 44.33	2.00	1.13	46.44	≤54	PASS
				AV	2390.000	-59.74	≤-	2.00	1.13	38.59	≤54	PASS

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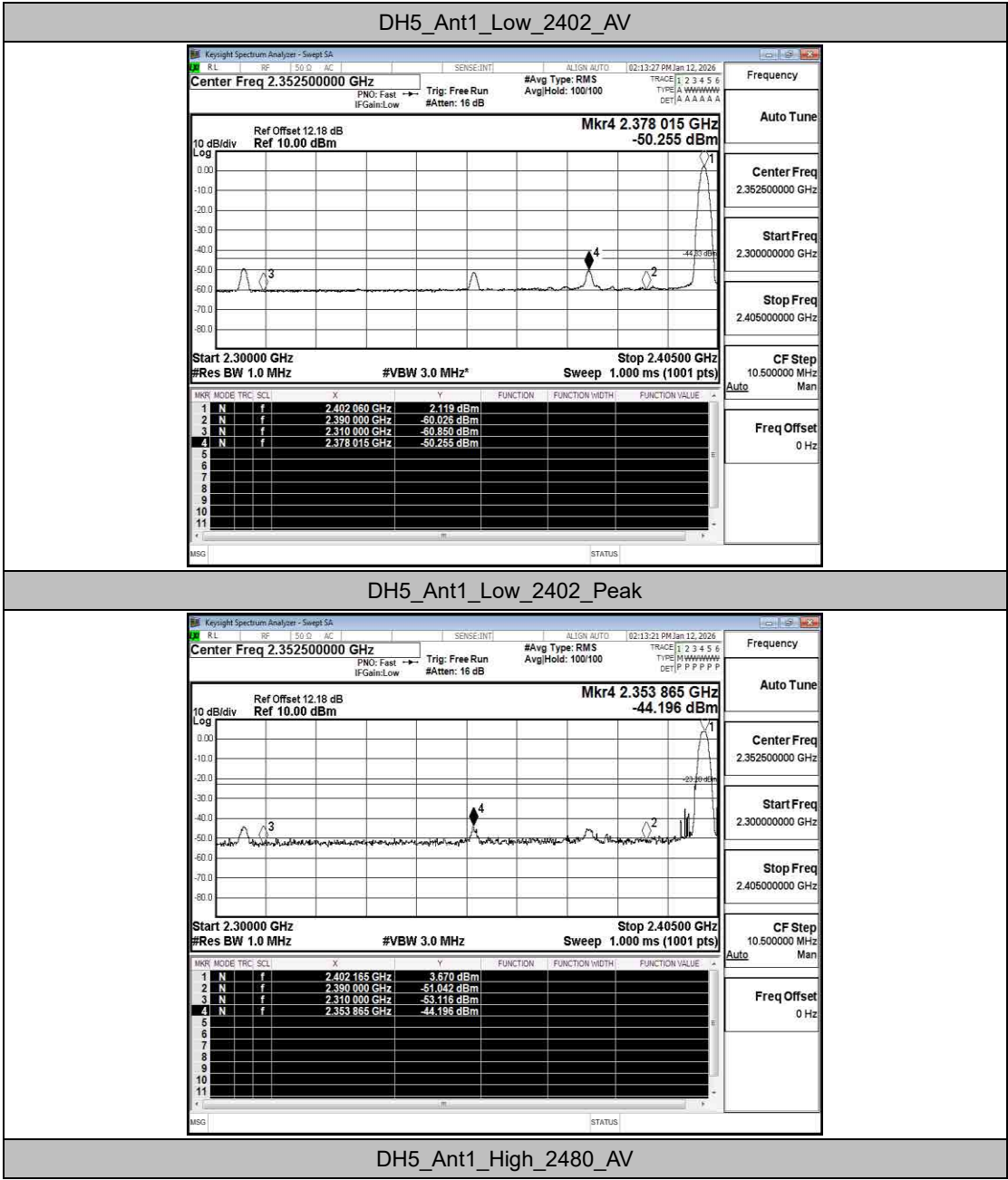
							44.33					
				Peak	2310.000	-53.97	≤- 23.20	2.00	0.00	43.23	≤74	PASS
				Peak	2377.910	-44.48	≤- 23.20	2.00	0.00	52.72	≤74	PASS
		High	2480	Peak	2390.000	-52.95	≤- 23.20	2.00	0.00	44.25	≤74	PASS
				AV	2483.500	-59.21	≤- 44.33	2.00	1.13	39.12	≤54	PASS
				AV	2483.600	-58.74	≤- 44.33	2.00	1.13	39.59	≤54	PASS
				AV	2500.000	-60.41	≤- 44.33	2.00	1.13	37.92	≤54	PASS
				Peak	2483.500	-50.56	≤- 23.20	2.00	0.00	46.64	≤74	PASS
				Peak	2485.120	-49.52	≤- 23.20	2.00	0.00	47.68	≤74	PASS
				Peak	2500.000	-51.88	≤- 23.20	2.00	0.00	45.32	≤74	PASS
		Low	Hop_2402	Peak	2310.000	-46.3	≤- 23.20	2.00	0.00	50.90	≤74	PASS
				Peak	2337.170	-42.5	≤- 23.20	2.00	0.00	54.70	≤74	PASS
				Peak	2390.000	-47.23	≤- 23.20	2.00	0.00	49.97	≤74	PASS
		High	Hop_2480	Peak	2483.500	-52.36	≤- 23.20	2.00	0.00	44.84	≤74	PASS
				Peak	2498.880	-48.28	≤- 23.20	2.00	0.00	48.92	≤74	PASS
				Peak	2500.000	-50.4	≤- 23.20	2.00	0.00	46.80	≤74	PASS

Note :offset=System attenuation +cabal loss

Note:

1. The Antenna Gain is compensated in the graph.
2. The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs



DH5_Ant1_Low_2402_Peak

KeySight Spectrum Analyzer - Swept SA

RL 150.0 -40

SENSE:INT1

ALIGN: AUTO

02:13:21 PM Jan 12, 2026

Center Freq 2.352500000 GHz

PNO: Fast
IFGain: Low

Trig: Free Run
#Atten: 16 dB

#Avg Type: RMS
Avg/Hold: 100/100

Frequency

Auto Tune

Center Freq
2.352500000 GHz

Start Freq
2.300000000 GHz

Stop Freq
2.405000000 GHz

CF Step
10.500000 MHz
Auto Man

Freq Offset
0 Hz

Ref Offset 12.18 dB
Ref 10.00 dBm

Mkr4 2.353 865 GHz
-44.196 dBm

10 dB/div

Log

Start 2.30000 GHz
#Res BW 1.0 MHz

#VBW 3.0 MHz

Stop 2.40500 GHz
Sweep 1.000 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	f		2.402 155 GHz	3.670 dBm			
2	N	f		2.390 000 GHz	-51.042 dBm			
3	N	f		2.310 000 GHz	-53.116 dBm			
4	N	f		2.353 865 GHz	-44.196 dBm			
5								
6								
7								
8								
9								
10								
11								

MSG STATUS

DH5_Ant1_High_2480_AV

