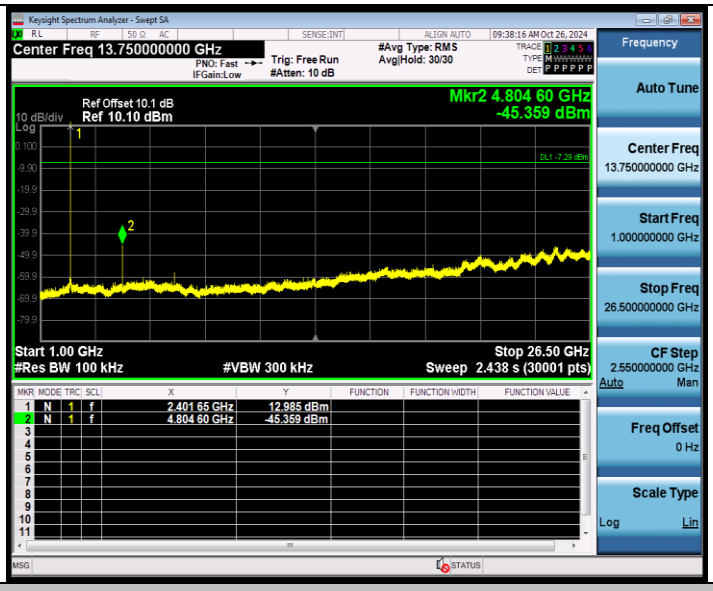
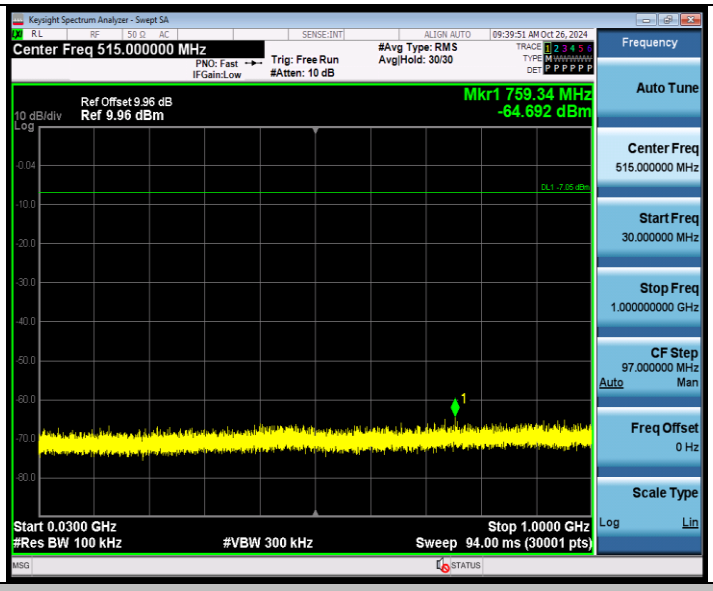
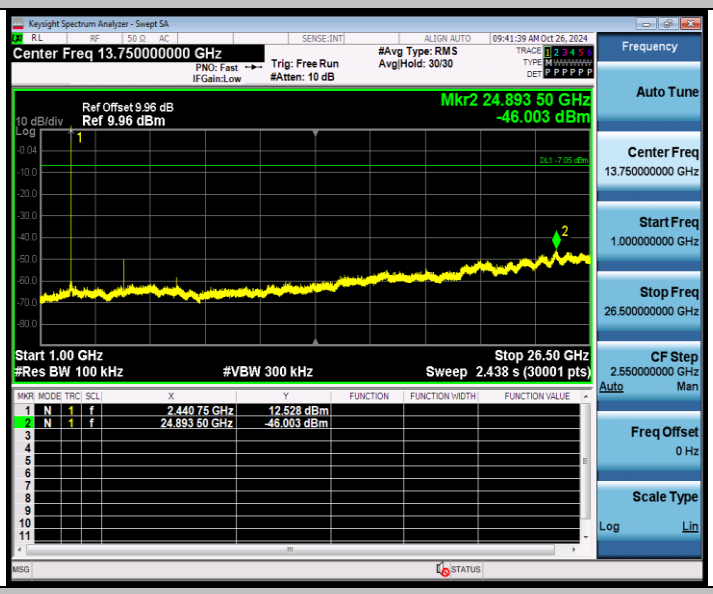


DH5_Ant1_2441_0~Reference

DH5_Ant1_2441_30~1000

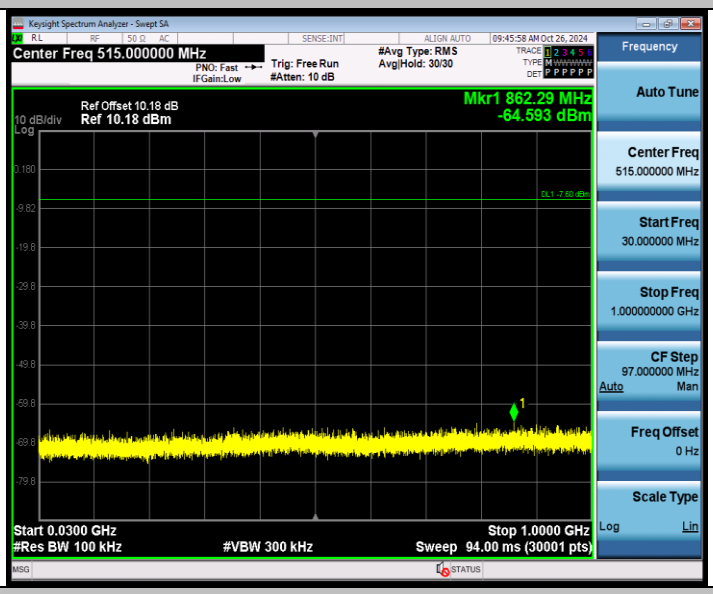


DH5_Ant1_2441_1000~26500

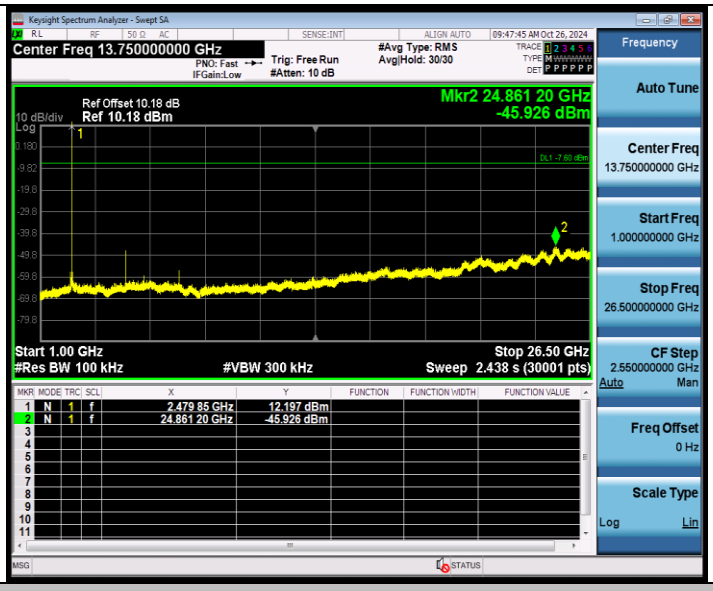


DH5_Ant1_2480_0~Reference

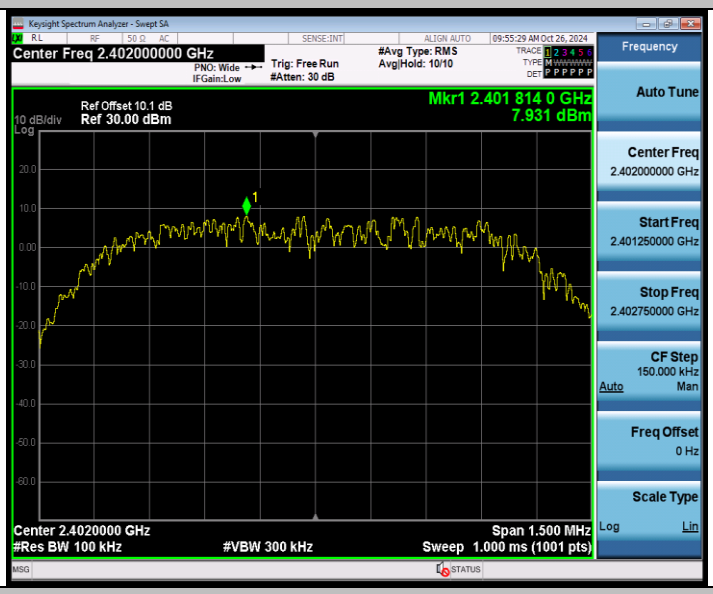
DH5_Ant1_2480_30~1000



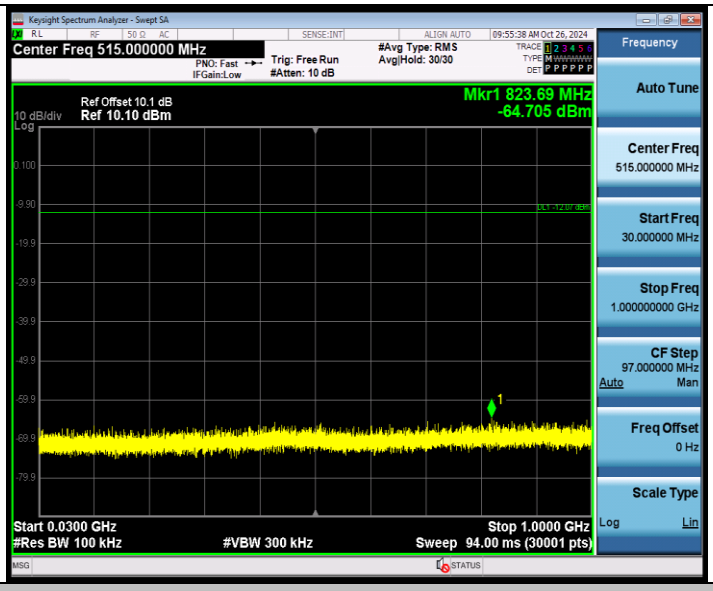
DH5_Ant1_2480_1000~26500



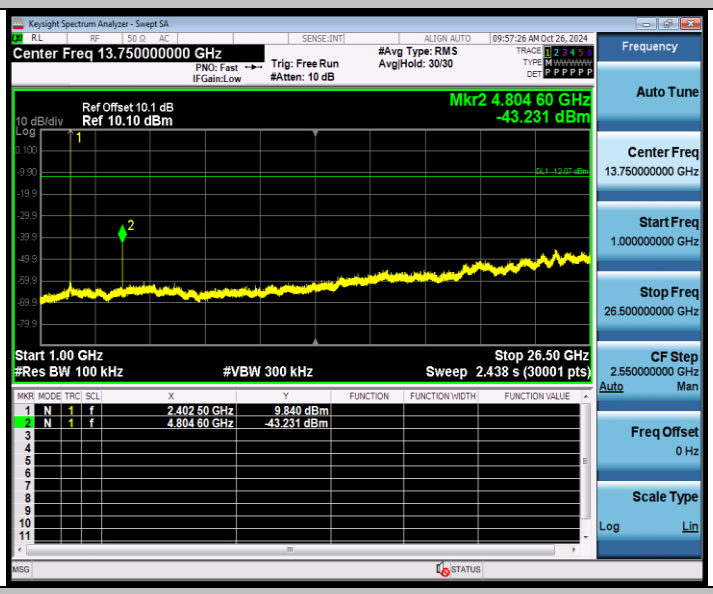
2DH5_Ant1_2402_0~Reference



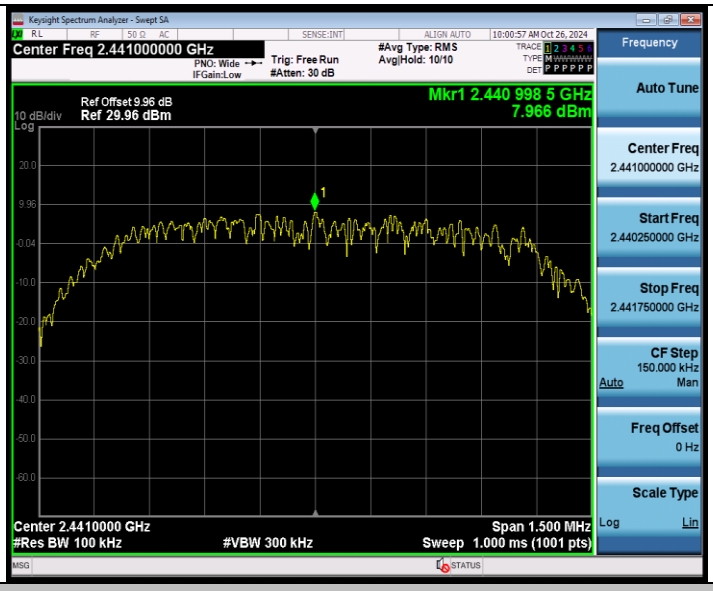
2DH5_Ant1_2402_30~1000



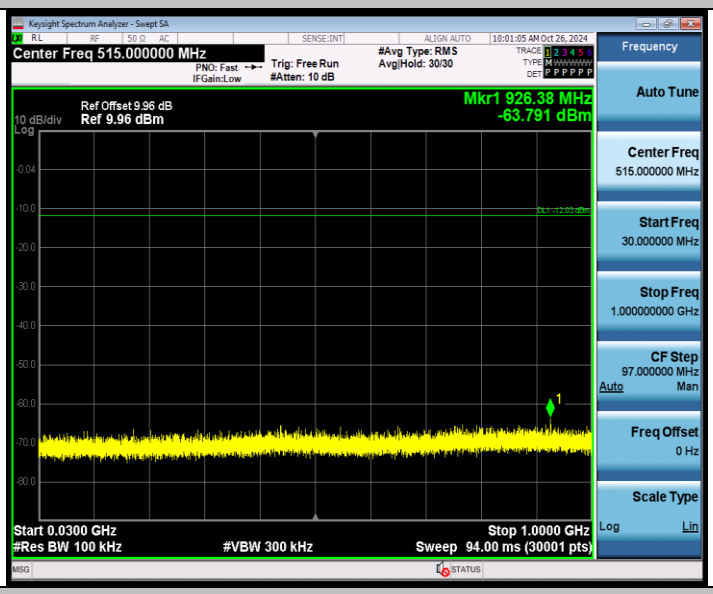
2DH5_Ant1_2402_1000~26500



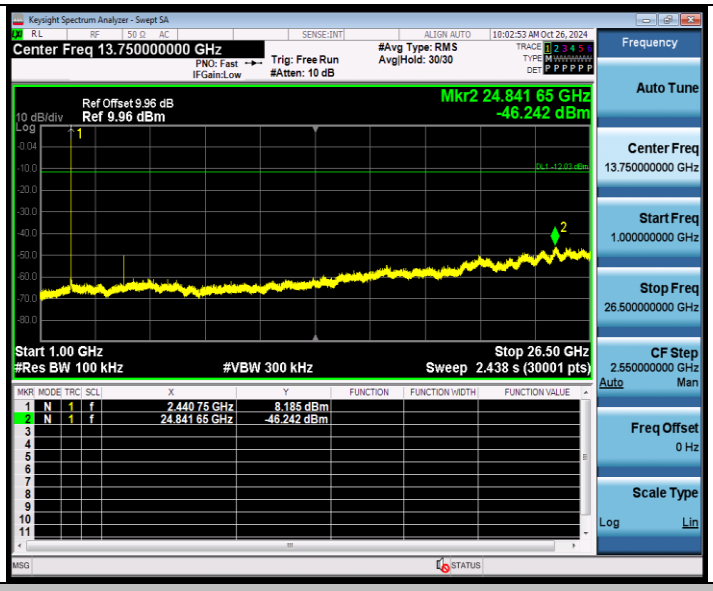
2DH5_Ant1_2441_0~Reference



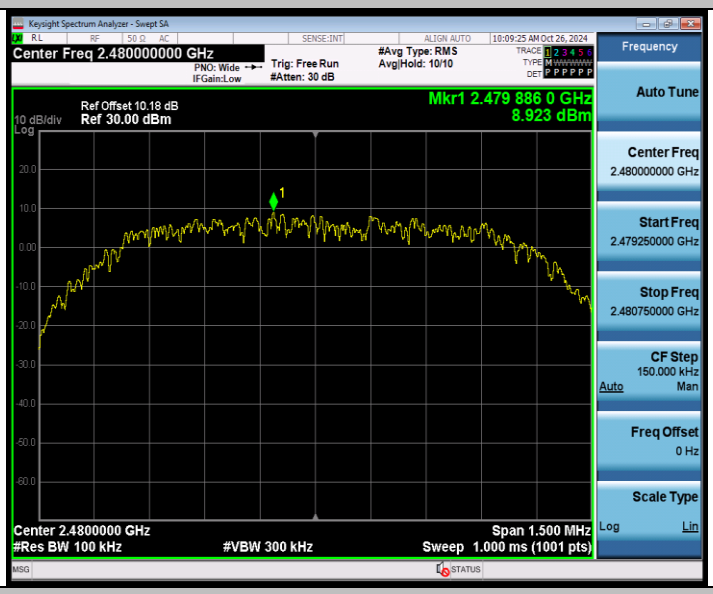
2DH5_Ant1_2441_30~1000



2DH5_Ant1_2441_1000~26500

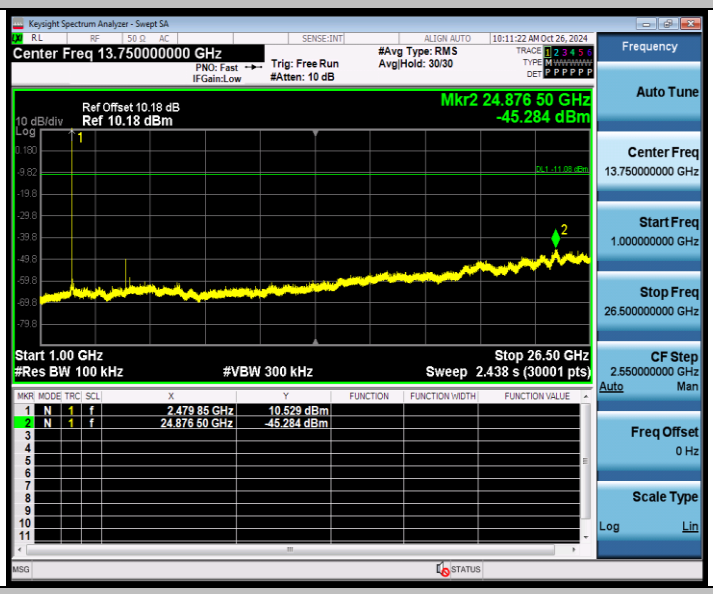


2DH5_Ant1_2480_0~Reference

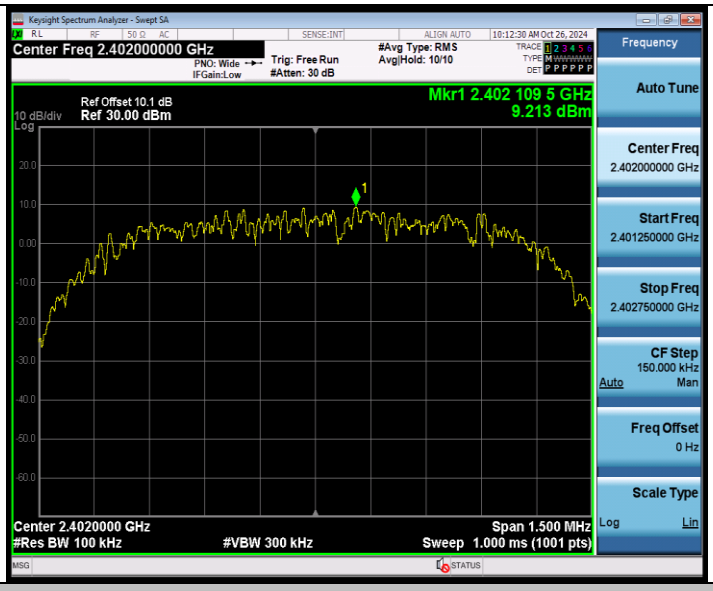


2DH5_Ant1_2480_30~1000

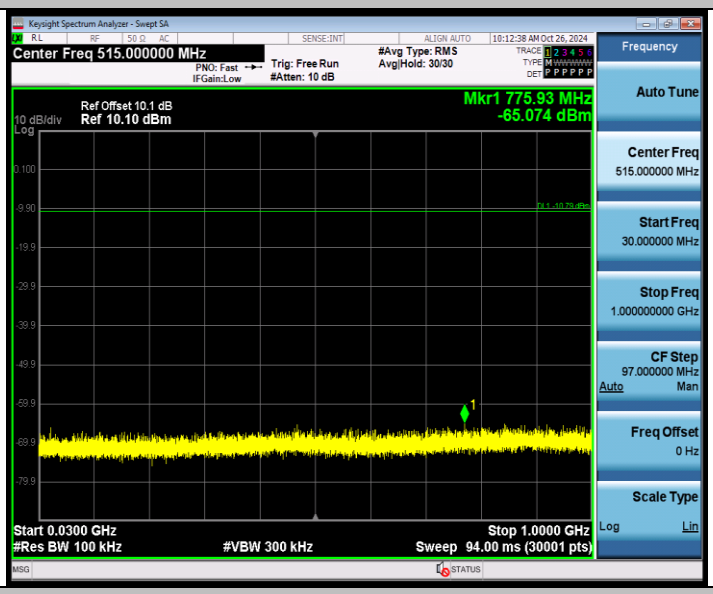
2DH5_Ant1_2480_1000~26500



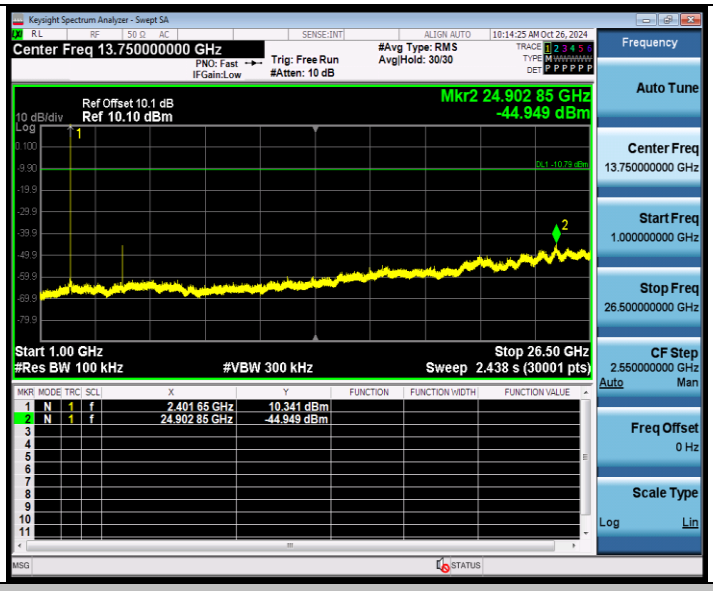
3DH5_Ant1_2402_0~Reference



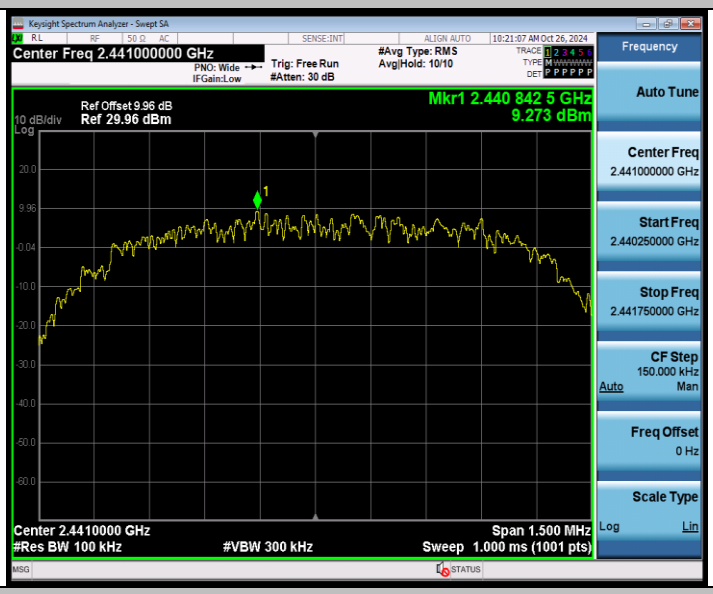
3DH5_Ant1_2402_30~1000



3DH5_Ant1_2402_1000~26500

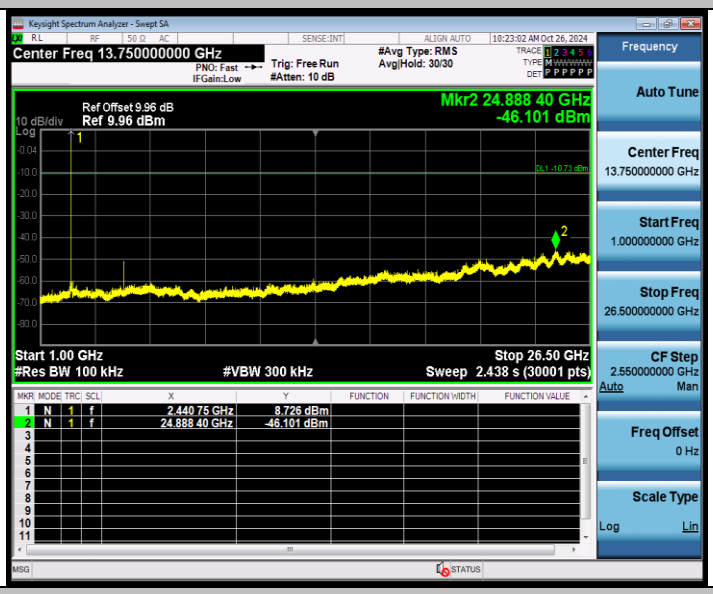


3DH5_Ant1_2441_0~Reference

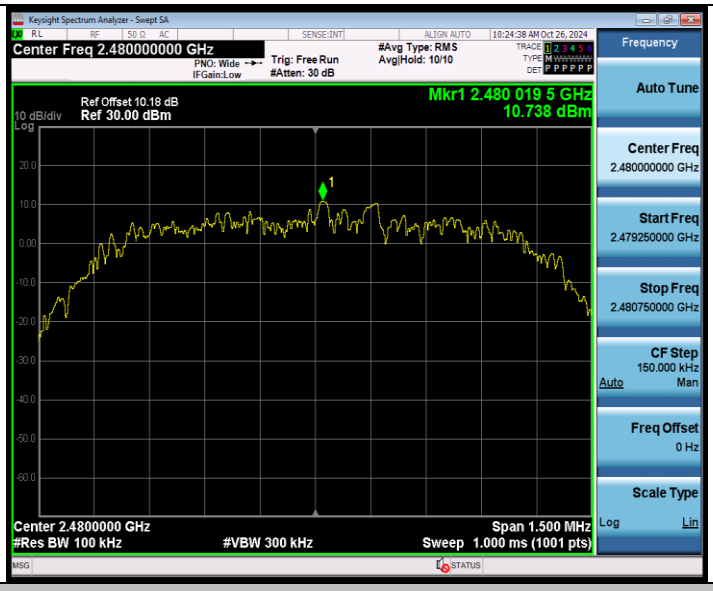


3DH5_Ant1_2441_30~1000

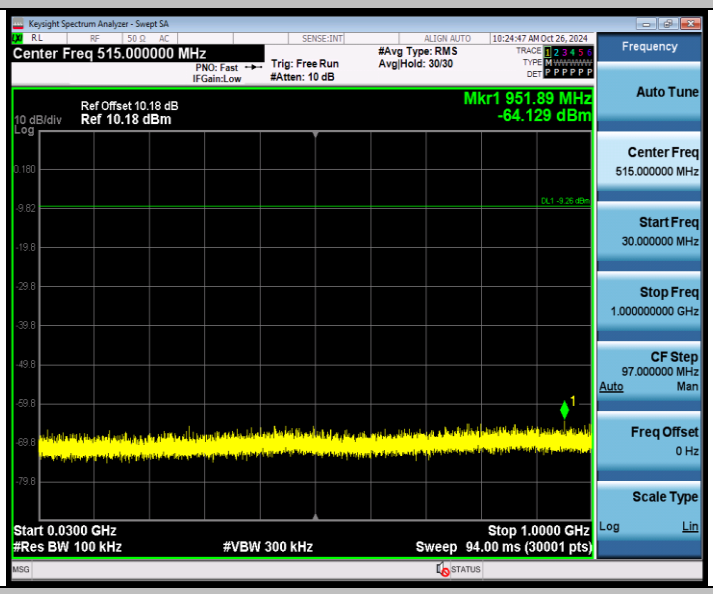
3DH5_Ant1_2441_1000~26500



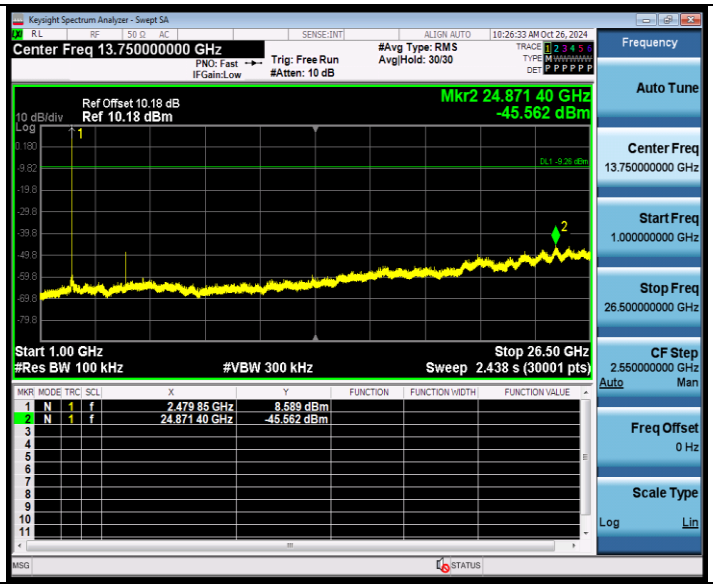
3DH5_Ant1_2480_0~Reference



3DH5_Ant1_2480_30~1000



3DH5_Ant1_2480_1000~26500


Keysight Spectrum Analyzer - Swept SA
Center Freq 13.750000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 10 dB
#Avg Type: RMS
Avg|Hold: 30/30
10:26:33 AM Oct 26, 2024
Ref Offset 10.18 dB
10 dB/div
Ref 10.18 dBm
Mkr2 24.871 40 GHz
-45.562 dBm
Start 1.00 GHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 26.50 GHz
Sweep 2.438 s (30001 pts)
1 N 1 f 2.479 85 GHz 8.589 dBm
2 N 1 f 24.871 40 GHz -45.562 dBm
Frequency
Auto Tune
Center Freq
13.750000000 GHz
Start Freq
1.000000000 GHz
Stop Freq
26.500000000 GHz
CF Step
2.550000000 GHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

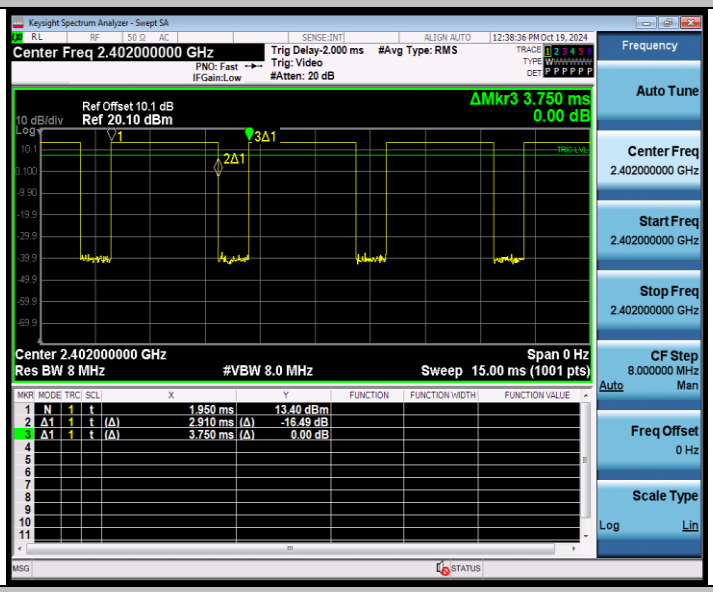
DUTY CYCLE

TEST RESULT

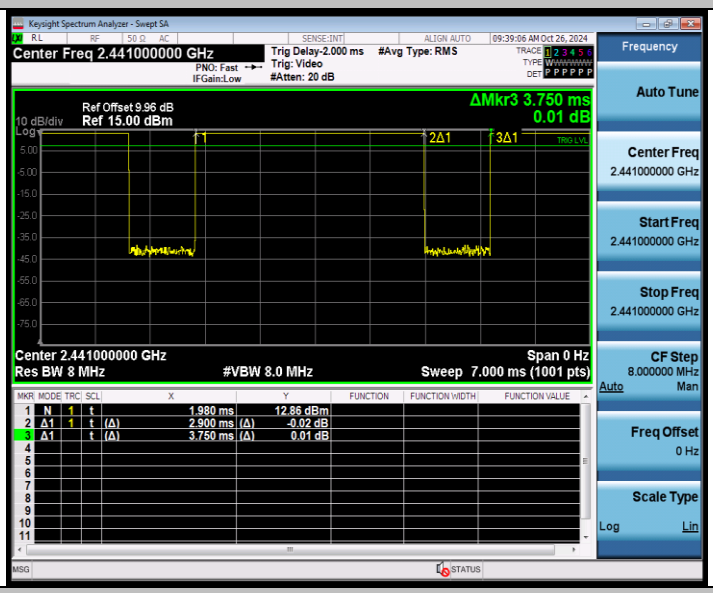
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.90	3.75	77.33	1.12
		2480	2.91	3.75	77.60	1.10
2DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.90	3.75	77.33	1.12
		2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.91	3.75	77.60	1.10
		2441	2.90	3.74	77.54	1.10
		2480	2.91	3.76	77.39	1.11

TEST GRAPHS

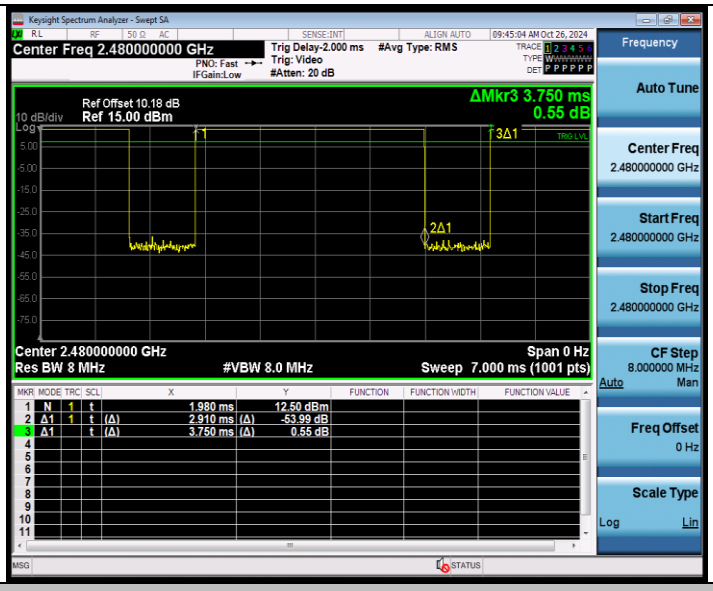
DH5_Ant1_2402



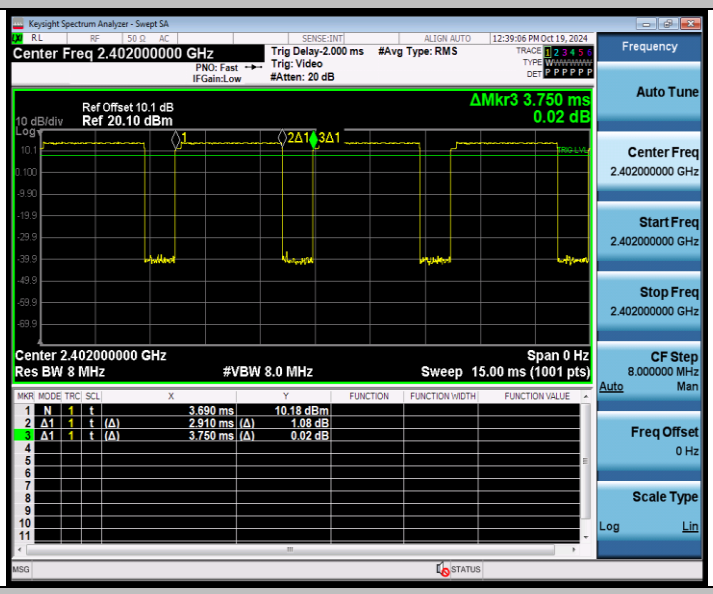
DH5_Ant1_2441



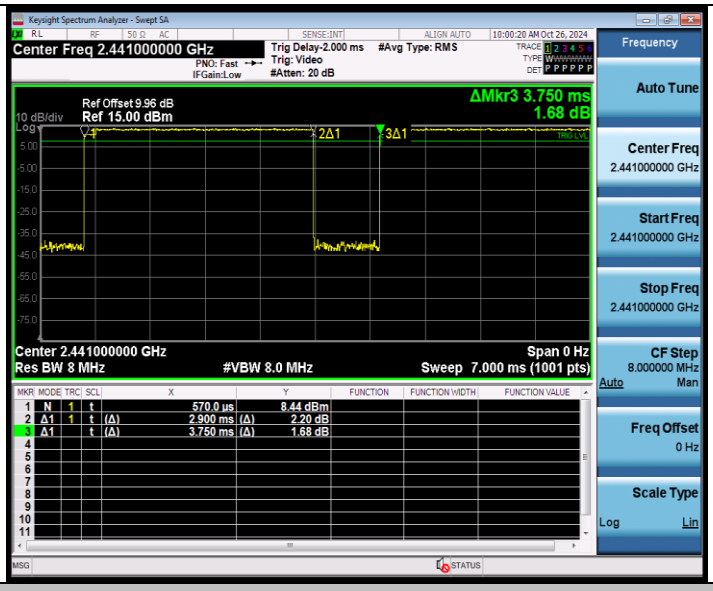
DH5_Ant1_2480



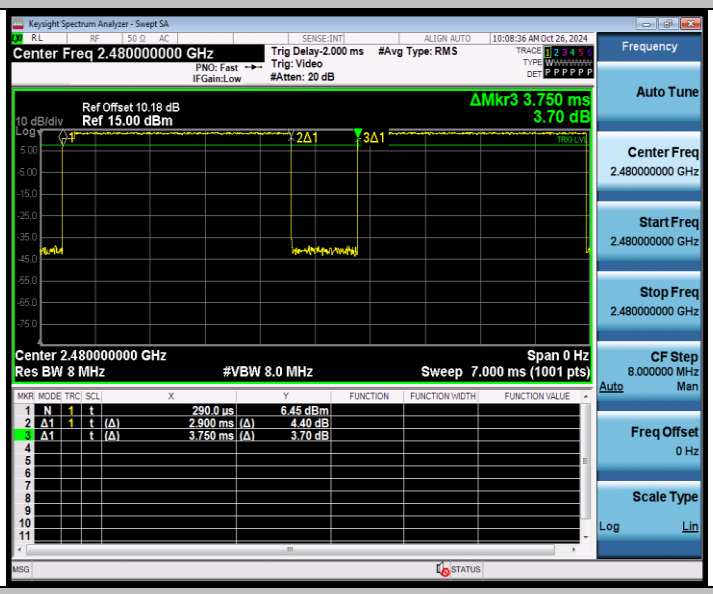
2DH5_Ant1_2402



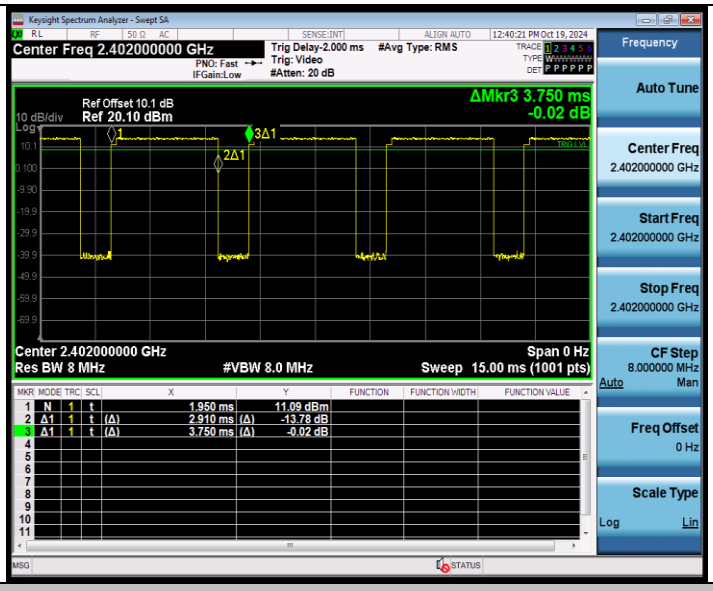
2DH5_Ant1_2441



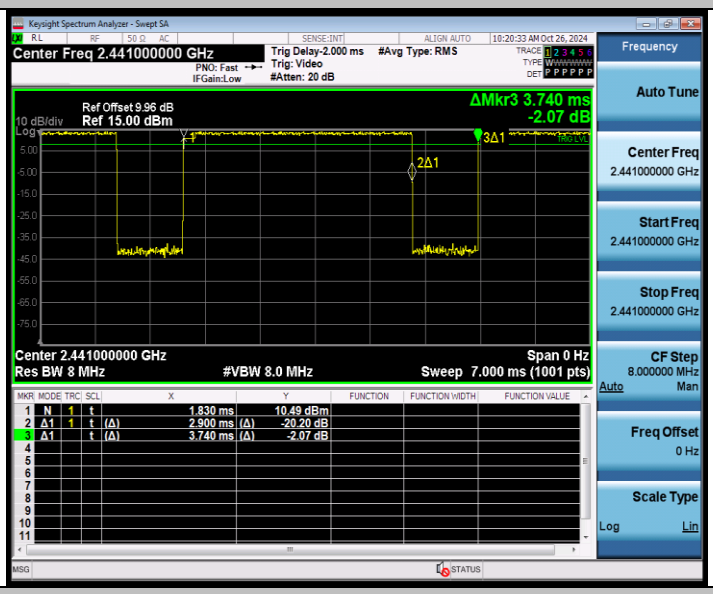
2DH5_Ant1_2480



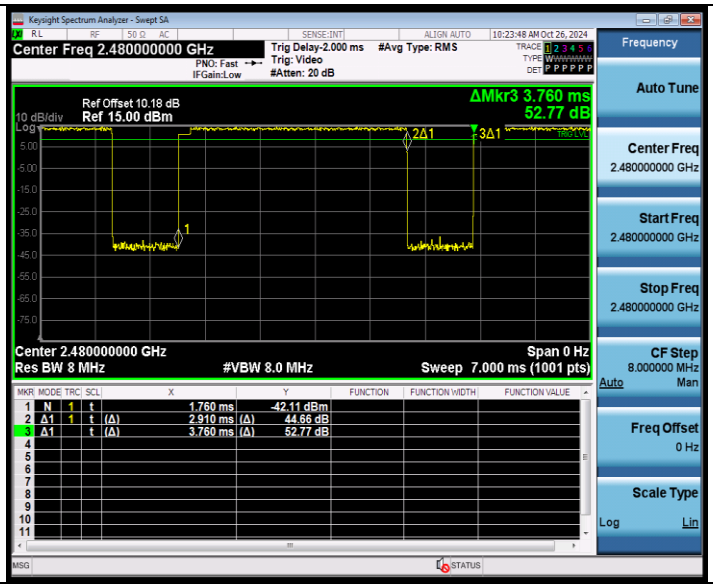
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
Trig Delay-2.000 ms
#Avg Type: RMS
Trig: Video
#Atten: 20 dB
PNO: Fast
IFGain:Low
10:23:48 AM Oct 26, 2024
Ref Offset 10.18 dB
10 dB/div
Ref 15.00 dBm
ΔMkr3 3.760 ms
52.77 dB
Center 2.480000000 GHz
Span 0 Hz
Res BW 8 MHz
#VBW 8.0 MHz
Sweep 7.000 ms (1001 pts)
1 N 1 t 1.760 ms -42.11 dBm
2 Δ1 1 t (Δ) 2.910 ms (Δ) 44.66 dB
3 Δ1 t (Δ) 3.760 ms (Δ) 52.77 dB
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.480000000 GHz
Stop Freq
2.480000000 GHz
CF Step
8.000000 MHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

Left ear

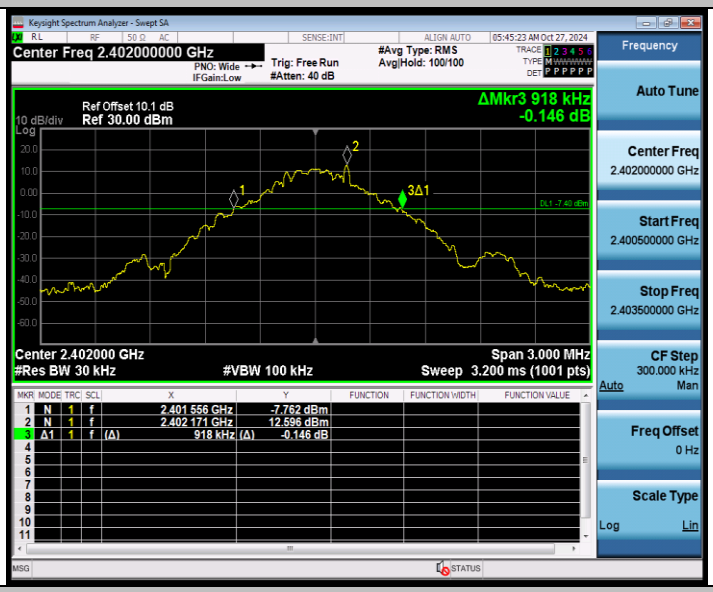
20DB EMISSION BANDWIDTH

TEST RESULT

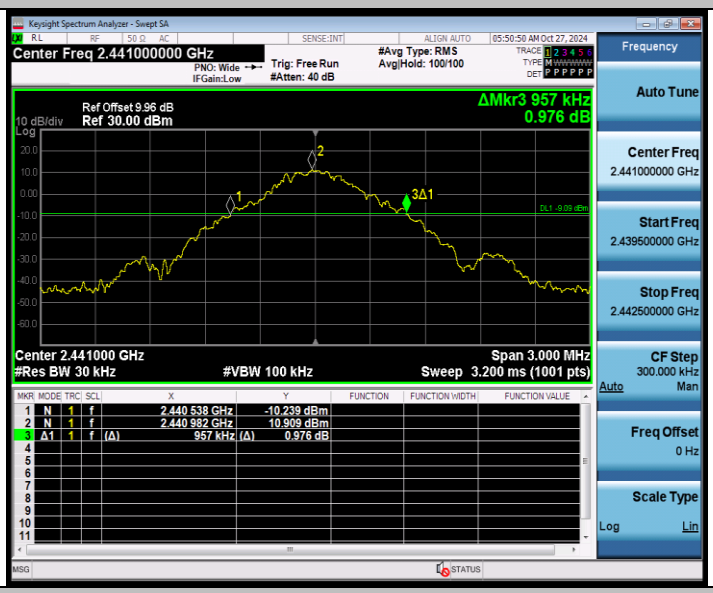
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.918	2401.556	2402.474	---	---
		2441	0.957	2440.538	2441.495	---	---
		2480	0.966	2479.538	2480.504	---	---
2DH5	Ant1	2402	1.305	2401.367	2402.672	---	---
		2441	1.323	2440.346	2441.669	---	---
		2480	1.326	2479.346	2480.672	---	---
3DH5	Ant1	2402	1.320	2401.352	2402.672	---	---
		2441	1.293	2440.370	2441.663	---	---
		2480	1.305	2479.361	2480.666	---	---

TEST GRAPHS

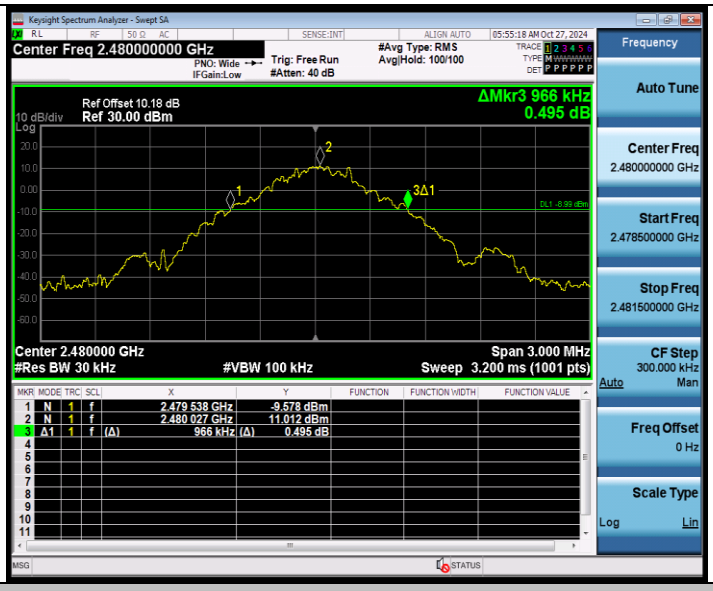
DH5_Ant1_2402



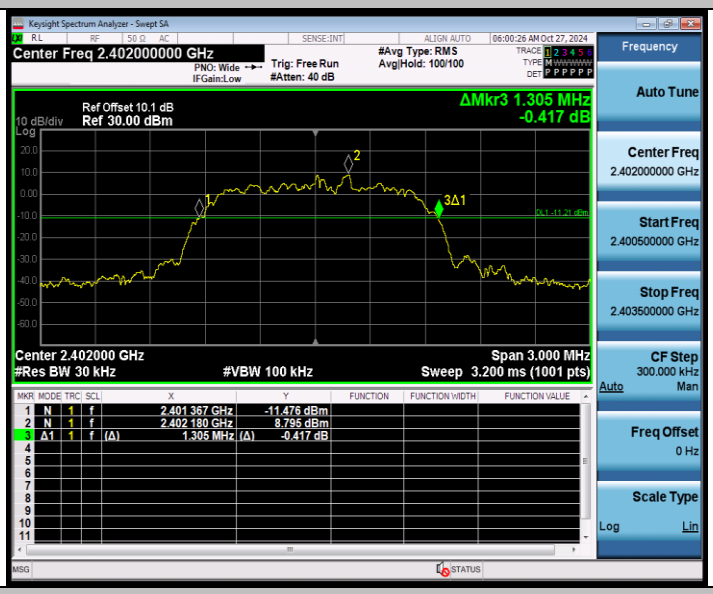
DH5_Ant1_2441



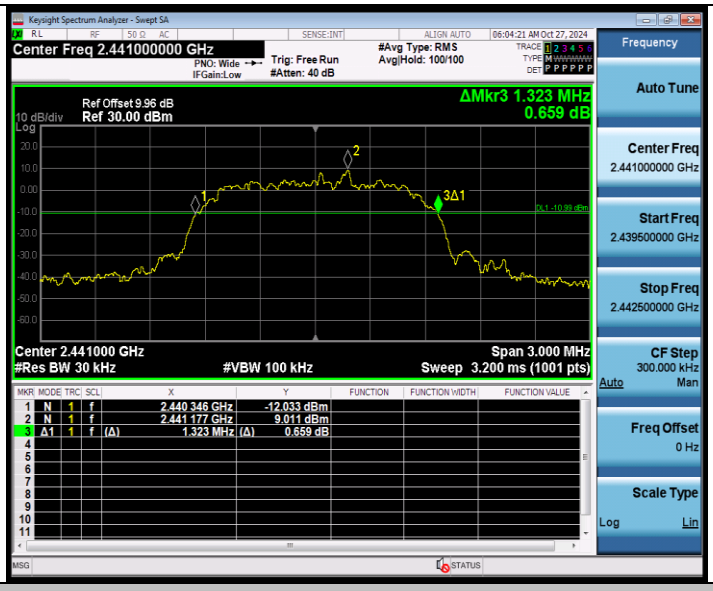
DH5_Ant1_2480



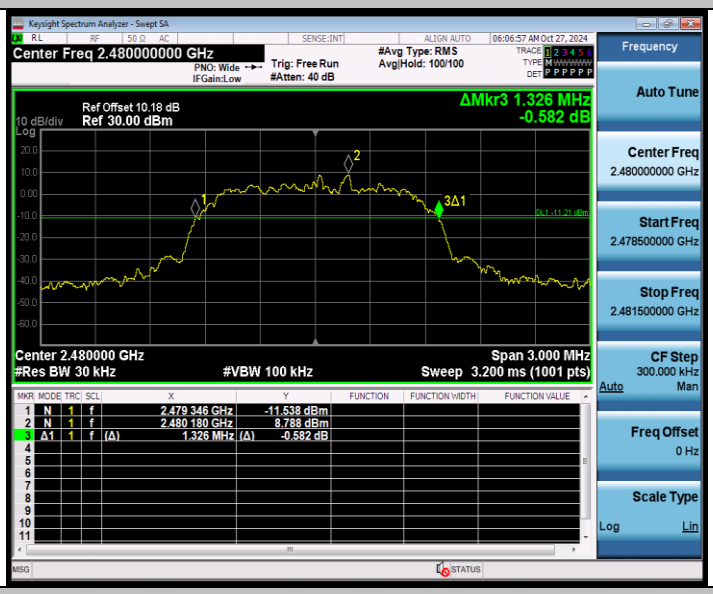
2DH5_Ant1_2402



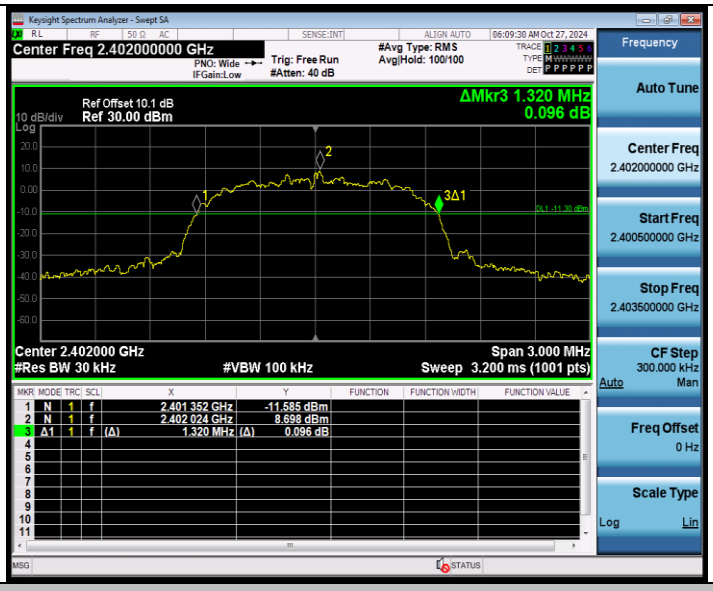
2DH5_Ant1_2441



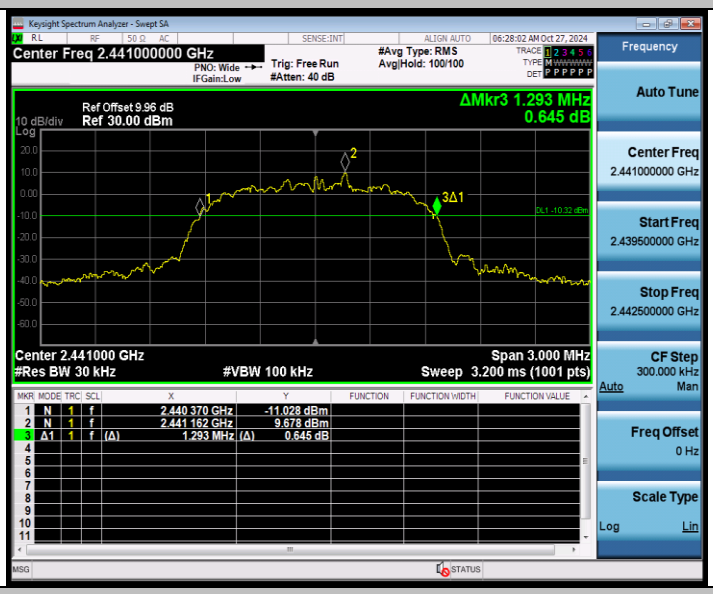
2DH5_Ant1_2480



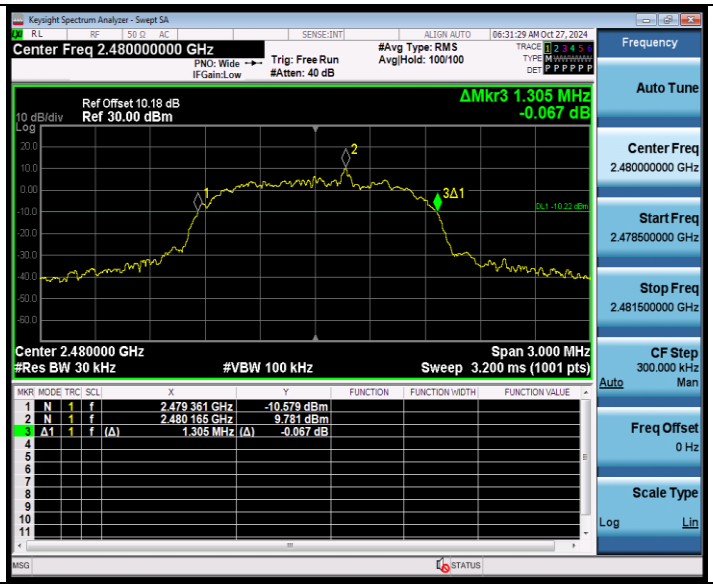
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480


Keysight Spectrum Analyzer - Swept SA
Center Freq 2.480000000 GHz
PNO: Wide
IFGain:Low
Trig: Free Run
#Atten: 40 dB
#Avg Type: RMS
Avg|Hold: 100/100
06:31:29 AM Oct 27, 2024
Ref Offset 10.18 dB
10 dB/div
Ref 30.00 dBm
ΔMkr3 1.305 MHz
-0.067 dB
Center 2.480000 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3.000 MHz
Sweep 3.200 ms (1001 pts)
1 N 1 f 2.479 361 GHz -10.579 dBm
2 N 1 f 2.480 165 GHz 9.781 dBm
3 Δ1 1 f (Δ) 1.305 MHz (Δ) -0.067 dB
Frequency
Auto Tune
Center Freq
2.480000000 GHz
Start Freq
2.478500000 GHz
Stop Freq
2.481500000 GHz
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
Scale Type
Log
Lin

OCCUPIED CHANNEL BANDWIDTH

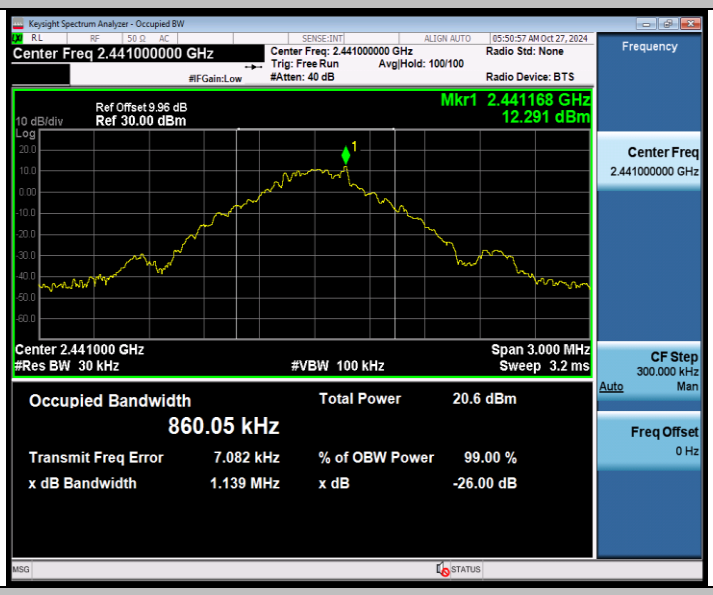
TEST RESULT

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.88245	2401.5725	2402.4550	---	---
		2441	0.86005	2440.5771	2441.4371	---	---
		2480	0.88711	2479.5722	2480.4593	---	---
2DH5	Ant1	2402	1.1943	2401.4099	2402.6042	---	---
		2441	1.1906	2440.4131	2441.6037	---	---
		2480	1.1877	2479.4154	2480.6031	---	---
3DH5	Ant1	2402	1.1970	2401.4069	2402.6039	---	---
		2441	1.1928	2440.4093	2441.6021	---	---
		2480	1.1949	2479.4118	2480.6067	---	---

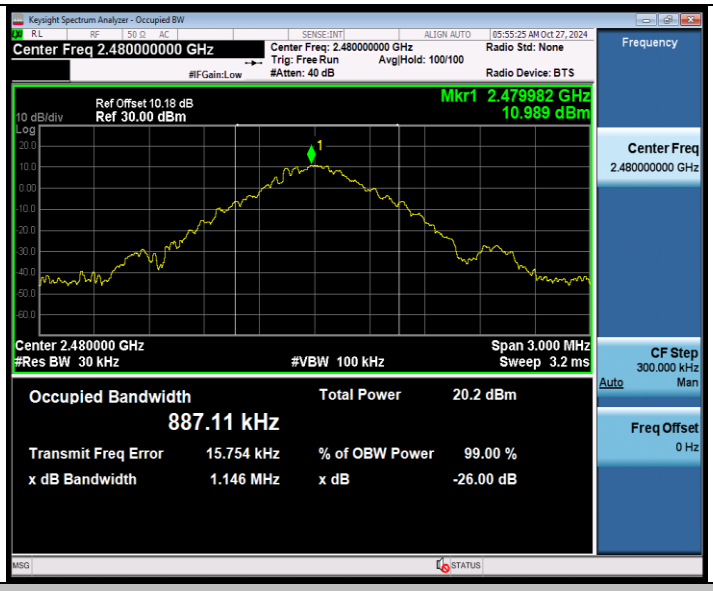
TEST GRAPHS

DH5_Ant1_2402

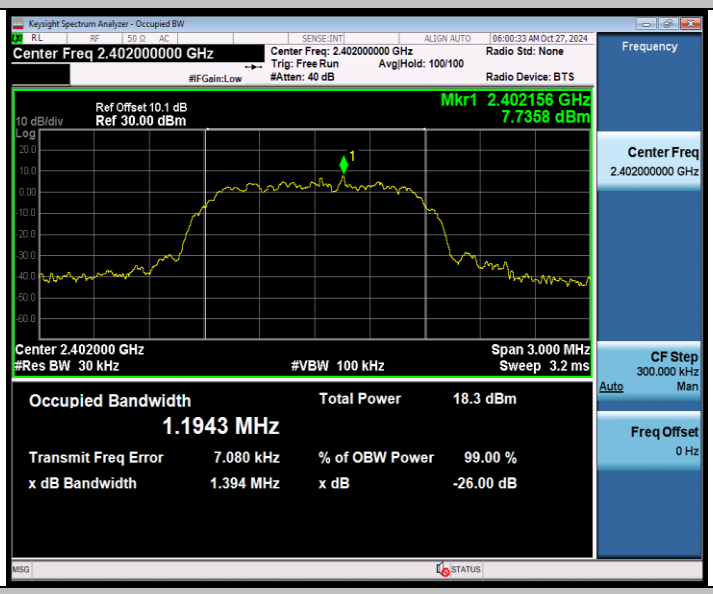
DH5_Ant1_2441



DH5_Ant1_2480

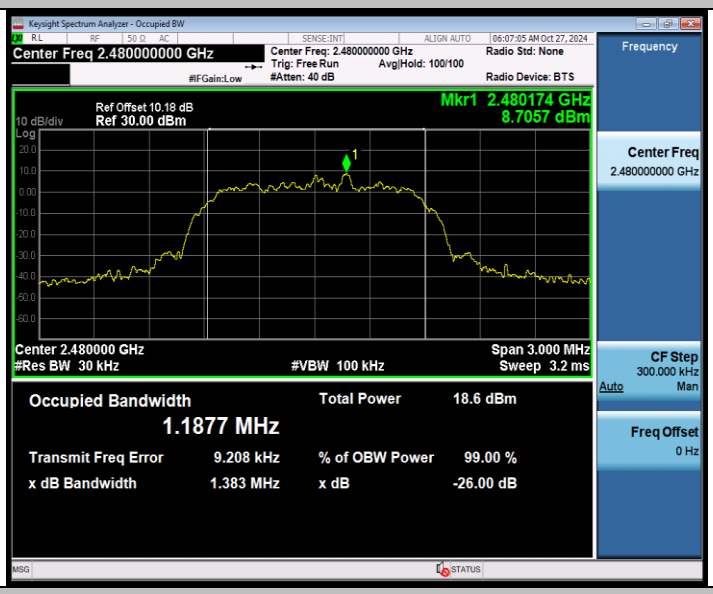


2DH5_Ant1_2402



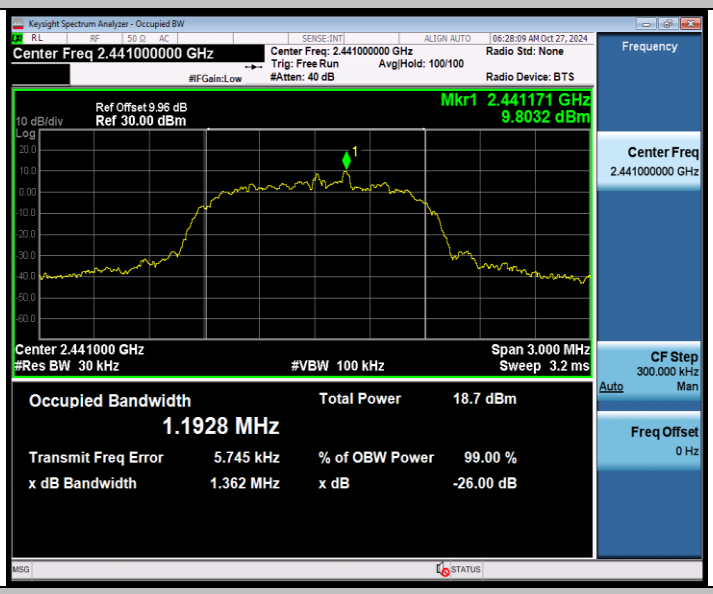
2DH5_Ant1_2441

2DH5_Ant1_2480



3DH5_Ant1_2402

3DH5_Ant1_2441



3DH5_Ant1_2480

Keysight Spectrum Analyzer - Occupied BW
Center Freq 2.480000000 GHz
Center Freq: 2.480000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 40 dB
Radio Std: None
Radio Device: BTS
06:31:36 AM Oct 27, 2024
Frequency
Ref Offset 10.18 dB
10 dB/div
Ref 30.00 dBm
Mkr1 2.480159 GHz
9.3772 dBm
Center Freq
2.480000000 GHz
Center 2.480000 GHz
#Res BW 30 kHz
#VBW 100 kHz
Span 3.000 MHz
Sweep 3.2 ms
CF Step
300.000 kHz
Auto
Man
Occupied Bandwidth
1.1949 MHz
Total Power 18.6 dBm
Transmit Freq Error 9.216 kHz
% of OBW Power 99.00 %
x dB Bandwidth 1.366 MHz
x dB -26.00 dB
Freq Offset
0 Hz
MSG
STATUS

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT

TestMode	Antenna	Frequency [MHz]	Average power [dBm]	Peak Power [dBm]	Peak power [mw]	Conducted Limit [dBm]	EIRP [dBm]	EIRP [mw]	EIRP Limit [dBm]	Verdict	Power Setting
DH5	Ant1	2402	13.47	13.51	22.44	≤20.97	8.66	7.35	≤36.00	PASS	Defult
		2441	13.42	13.55	22.65	≤20.97	8.7	7.41	≤36.00	PASS	Defult
		2480	13.46	13.56	22.70	≤20.97	8.71	7.43	≤36.00	PASS	Defult
2DH5	Ant1	2402	11.25	11.33	13.58	≤20.97	6.48	4.45	≤36.00	PASS	Defult
		2441	11.21	11.45	13.96	≤20.97	6.6	4.57	≤36.00	PASS	Defult
		2480	11.14	11.42	13.87	≤20.97	6.57	4.54	≤36.00	PASS	Defult
3DH5	Ant1	2402	11.26	11.32	13.55	≤20.97	6.47	4.44	≤36.00	PASS	Defult
		2441	11.25	11.41	13.84	≤20.97	6.56	4.53	≤36.00	PASS	Defult
		2480	11.17	11.45	13.96	≤20.97	6.6	4.57	≤36.00	PASS	Defult
Note:EIRP=Peak Power+Gain											

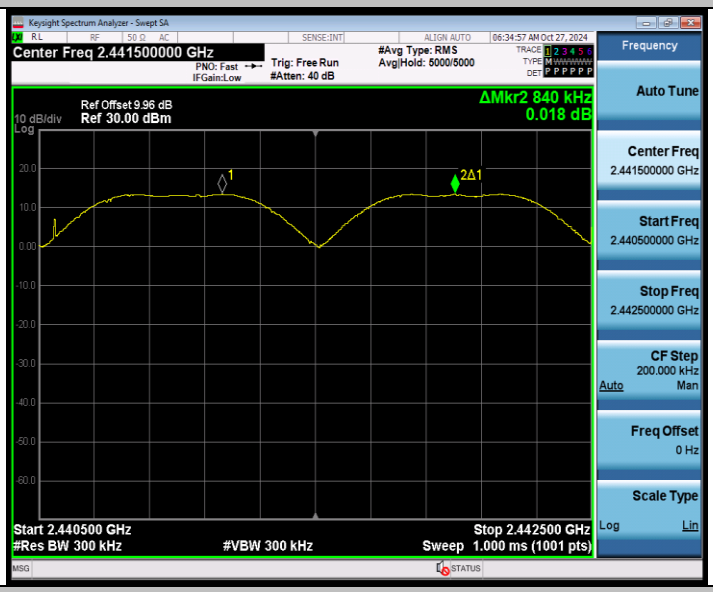
CARRIER FREQUENCY SEPARATION

TEST RESULT

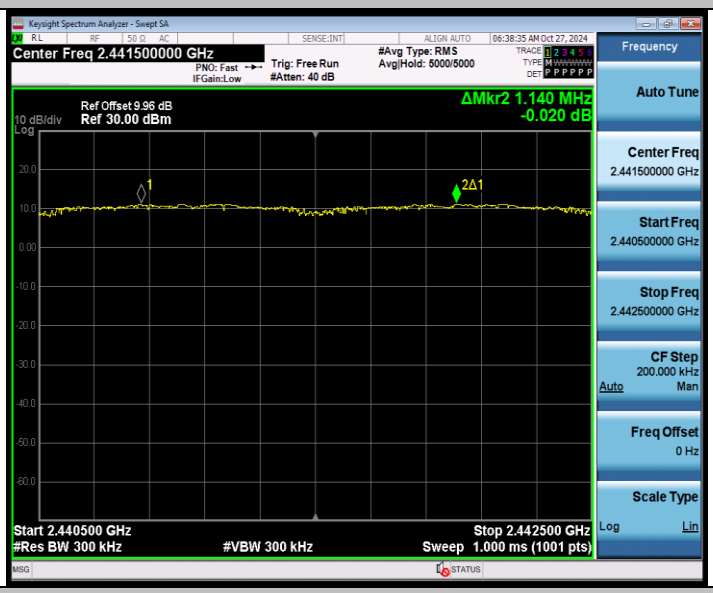
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.84	≥0.644	PASS
2DH5	Ant1	Hop	1.14	≥0.884	PASS
3DH5	Ant1	Hop	0.976	≥0.880	PASS

TEST GRAPHS

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop