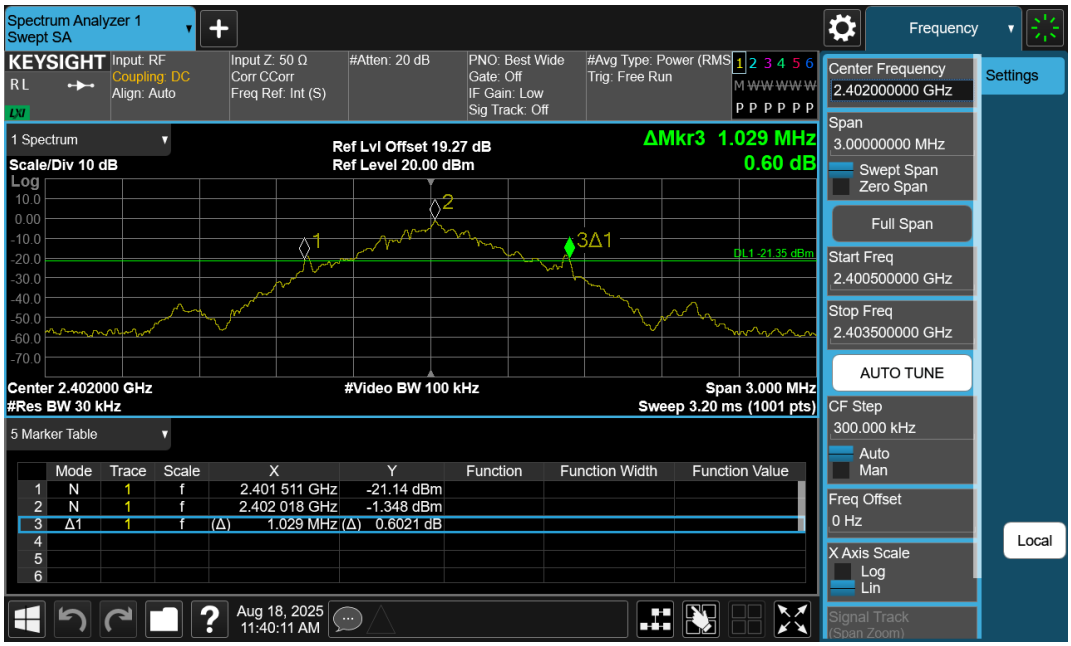
Appendix A: 20dB Emission Bandwidth

Test Result

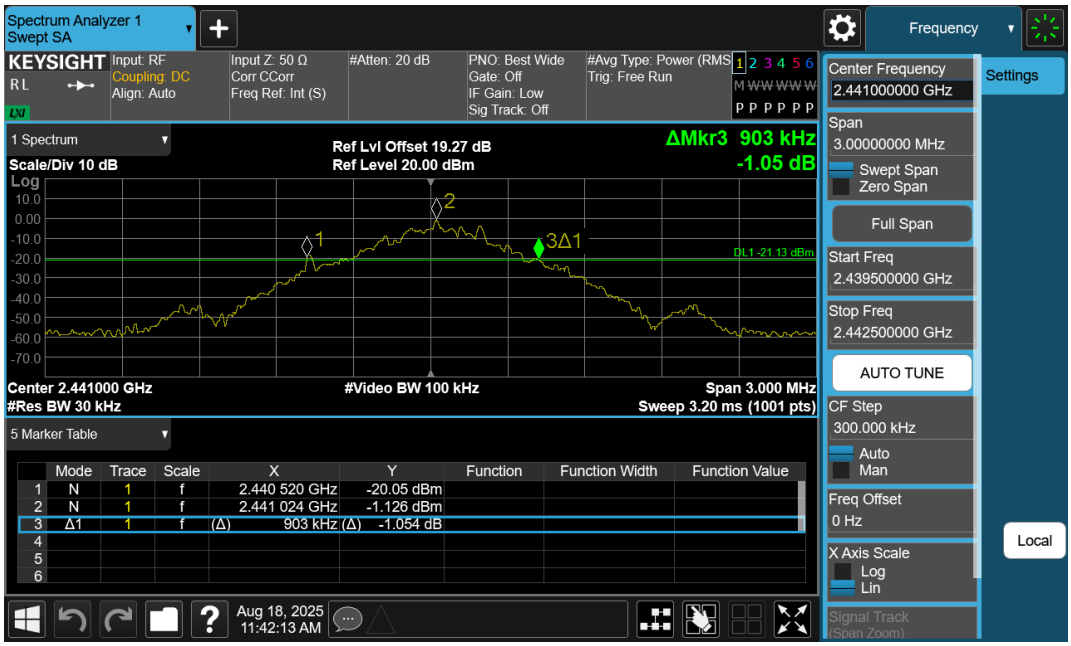
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.029	2401.511	2402.540	---	---
DH5	Ant1	2441	0.903	2440.520	2441.423	---	---
DH5	Ant1	2480	0.984	2479.532	2480.516	---	---
2DH5	Ant1	2402	1.164	2401.430	2402.594	---	---
2DH5	Ant1	2441	1.131	2440.472	2441.603	---	---
2DH5	Ant1	2480	1.260	2479.406	2480.666	---	---
3DH5	Ant1	2402	1.170	2401.442	2402.612	---	---
3DH5	Ant1	2441	1.182	2440.448	2441.630	---	---
3DH5	Ant1	2480	1.242	2479.406	2480.648	---	---

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

Spectrum Analyzer 1
Swept SA
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 20 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Ref Lvl Offset 19.40 dB
Ref Level 20.00 dBm
ΔMkr3 1.242 MHz
-0.22 dB
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
1
2
3Δ1
D1: -24.98 dBm
Center 2.480000 GHz
#Res BW 30 kHz
#Video BW 100 kHz
Span 3.000 MHz
Sweep 3.20 ms (1001 pts)
5 Marker Table
Mode Trace Scale X Y Function Function Width Function Value
1 N 1 f 2.479 406 GHz -24.69 dBm
2 N 1 f 2.480 075 GHz -4.979 dBm
3 Δ1 1 f (Δ) 1.242 MHz (Δ) -0.2247 dB
4
5
6
Aug 18, 2025
1:52:38 PM
Center Frequency
2.480000000 GHz
Span
3.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478500000 GHz
Stop Freq
2.481500000 GHz
AUTO TUNE
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Settings
Local

Appendix B: Maximum conducted output power

Test Result Peak

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]	Conducted Limit[dBm]	Verdict
DH5	Ant1	2402	0.54	≤20.97	PASS
DH5	Ant1	2441	0.70	≤20.97	PASS
DH5	Ant1	2480	1.27	≤20.97	PASS
2DH5	Ant1	2402	0.58	≤20.97	PASS
2DH5	Ant1	2441	0.72	≤20.97	PASS
2DH5	Ant1	2480	1.23	≤20.97	PASS
3DH5	Ant1	2402	0.59	≤20.97	PASS
3DH5	Ant1	2441	0.86	≤20.97	PASS
3DH5	Ant1	2480	1.35	≤20.97	PASS

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

Appendix C: Carrier frequency separation

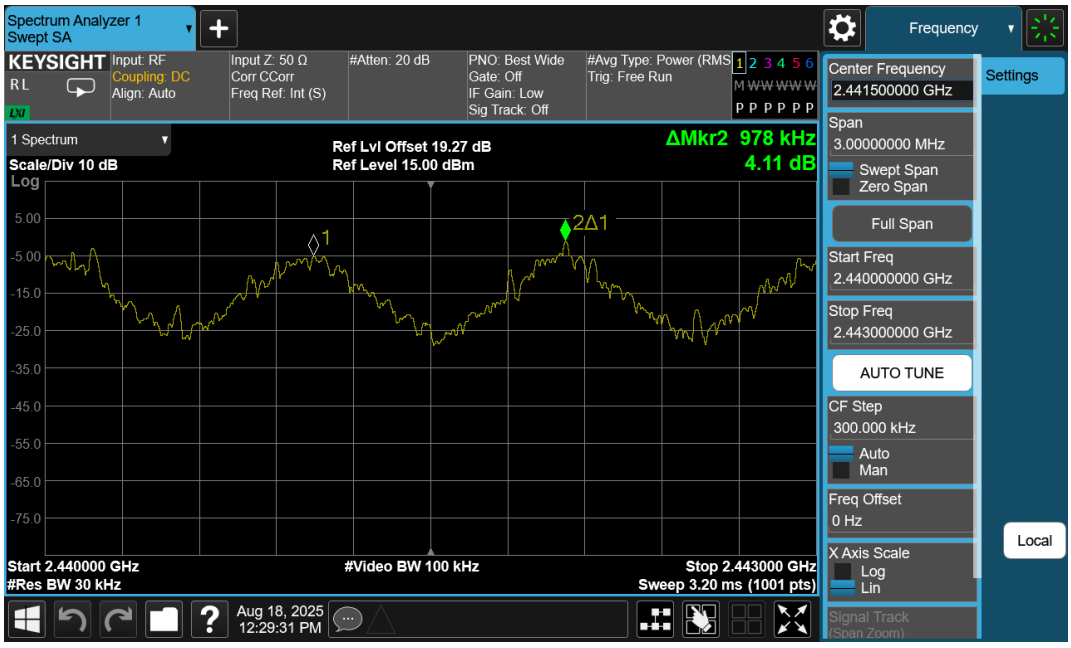
Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.999	≥0.686	PASS
DH5	Ant1	2441	0.978	≥0.686	PASS
DH5	Ant1	2480	0.975	≥0.686	PASS
2DH5	Ant1	2402	1.164	≥0.840	PASS
2DH5	Ant1	2441	0.894	≥0.840	PASS
2DH5	Ant1	2480	1.02	≥0.840	PASS
3DH5	Ant1	2402	1.041	≥0.828	PASS
3DH5	Ant1	2441	0.93	≥0.828	PASS
3DH5	Ant1	2480	1.239	≥0.828	PASS

Test Graphs

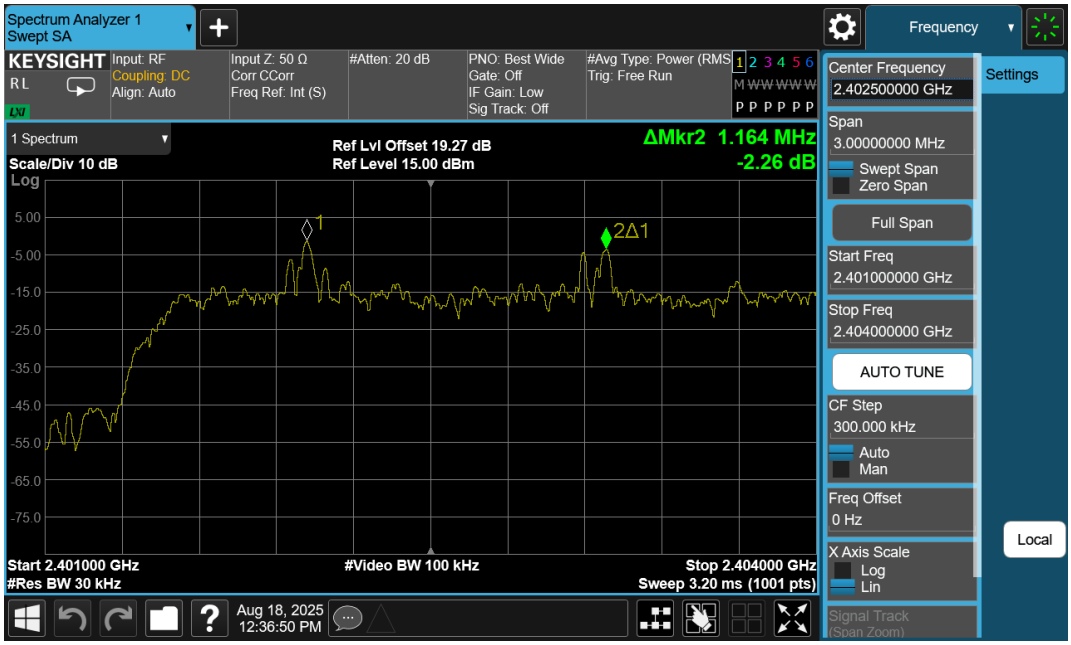
DH5-Ant1-2402-PASS

DH5-Ant1-2441-PASS

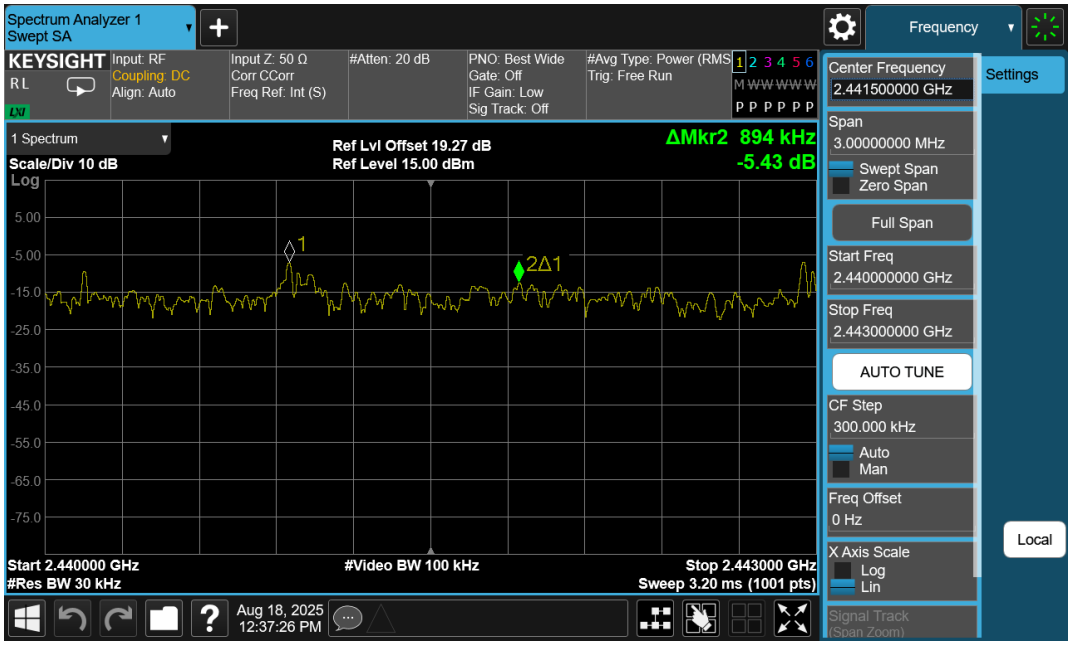


DH5-Ant1-2480-PASS

2DH5-Ant1-2402-PASS

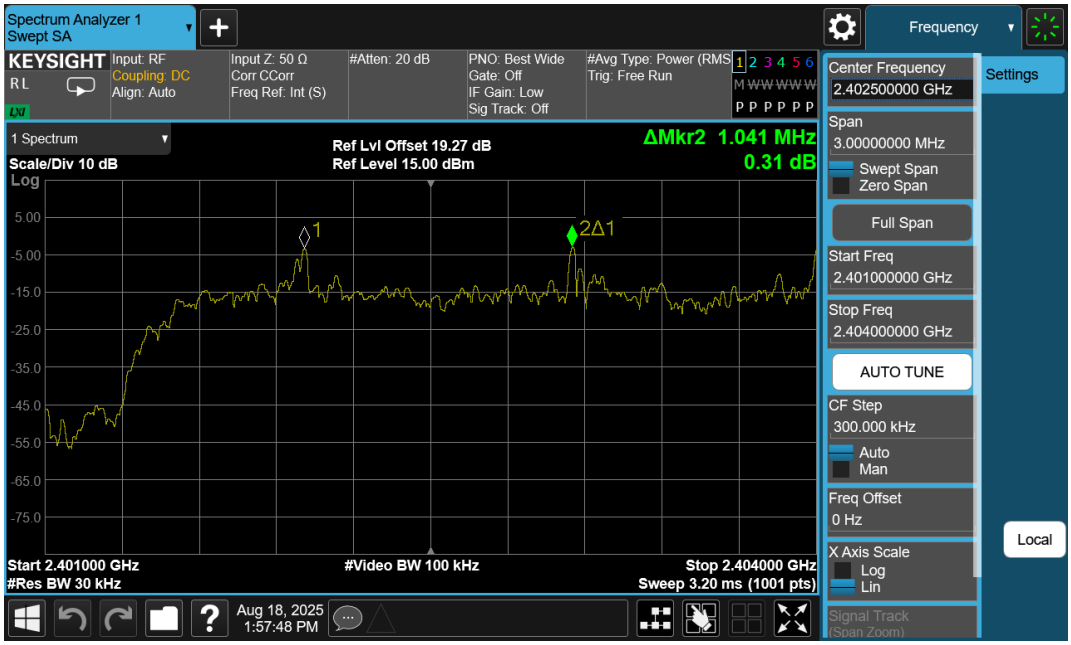


2DH5-Ant1-2441-PASS

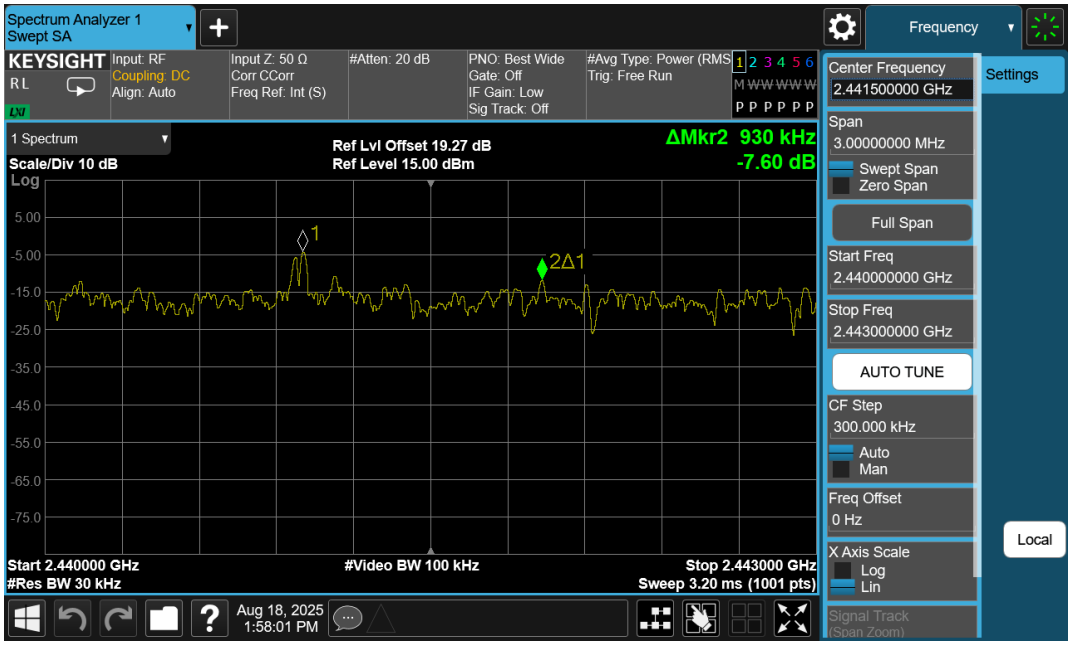


2DH5-Ant1-2480-PASS

3DH5-Ant1-2402-PASS



3DH5-Ant1-2441-PASS



3DH5-Ant1-2480-PASS

Spectrum Analyzer 1
Swept SA
Frequency
KEYSIGHT
Input: RF
Coupling: DC
Align: Auto
Input Z: 50 Ω
Corr CCorr
Freq Ref: Int (S)
#Atten: 20 dB
PNO: Best Wide
Gate: Off
IF Gain: Low
Sig Track: Off
#Avg Type: Power (RMS
Trig: Free Run
1 Spectrum
Scale/Div 10 dB
Log
Ref Lvl Offset 19.40 dB
Ref Level 15.00 dBm
ΔMkr2 1.239 MHz
7.65 dB
5.00
-5.00
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
-75.0
Start 2.478000 GHz
#Res BW 30 kHz
#Video BW 100 kHz
Stop 2.481000 GHz
Sweep 3.20 ms (1001 pts)
Center Frequency
2.479500000 GHz
Span
3.00000000 MHz
Swept Span
Zero Span
Full Span
Start Freq
2.478000000 GHz
Stop Freq
2.481000000 GHz
AUTO TUNE
CF Step
300.000 kHz
Auto
Man
Freq Offset
0 Hz
X Axis Scale
Log
Lin
Signal Track
(Span Zoom)
Settings
Local
Aug 18, 2025
1:58:18 PM