

FCC ID: 2A64B-DLX71

IC: 28593-DLX71

Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-18.25	≤8.00	PASS
11B	Ant1	2437	-17.76	≤8.00	PASS
11B	Ant1	2462	-18.08	≤8.00	PASS
11G	Ant1	2412	-17.98	≤8.00	PASS
11G	Ant1	2437	-17.13	≤8.00	PASS
11G	Ant1	2462	-16.95	≤8.00	PASS
11N20SISO	Ant1	2412	-19.25	≤8.00	PASS
11N20SISO	Ant1	2437	-17.56	≤8.00	PASS
11N20SISO	Ant1	2462	-17.74	≤8.00	PASS
11N40SISO	Ant1	2422	-21.35	≤8.00	PASS
11N40SISO	Ant1	2437	-20.20	≤8.00	PASS
11N40SISO	Ant1	2452	-21.22	≤8.00	PASS

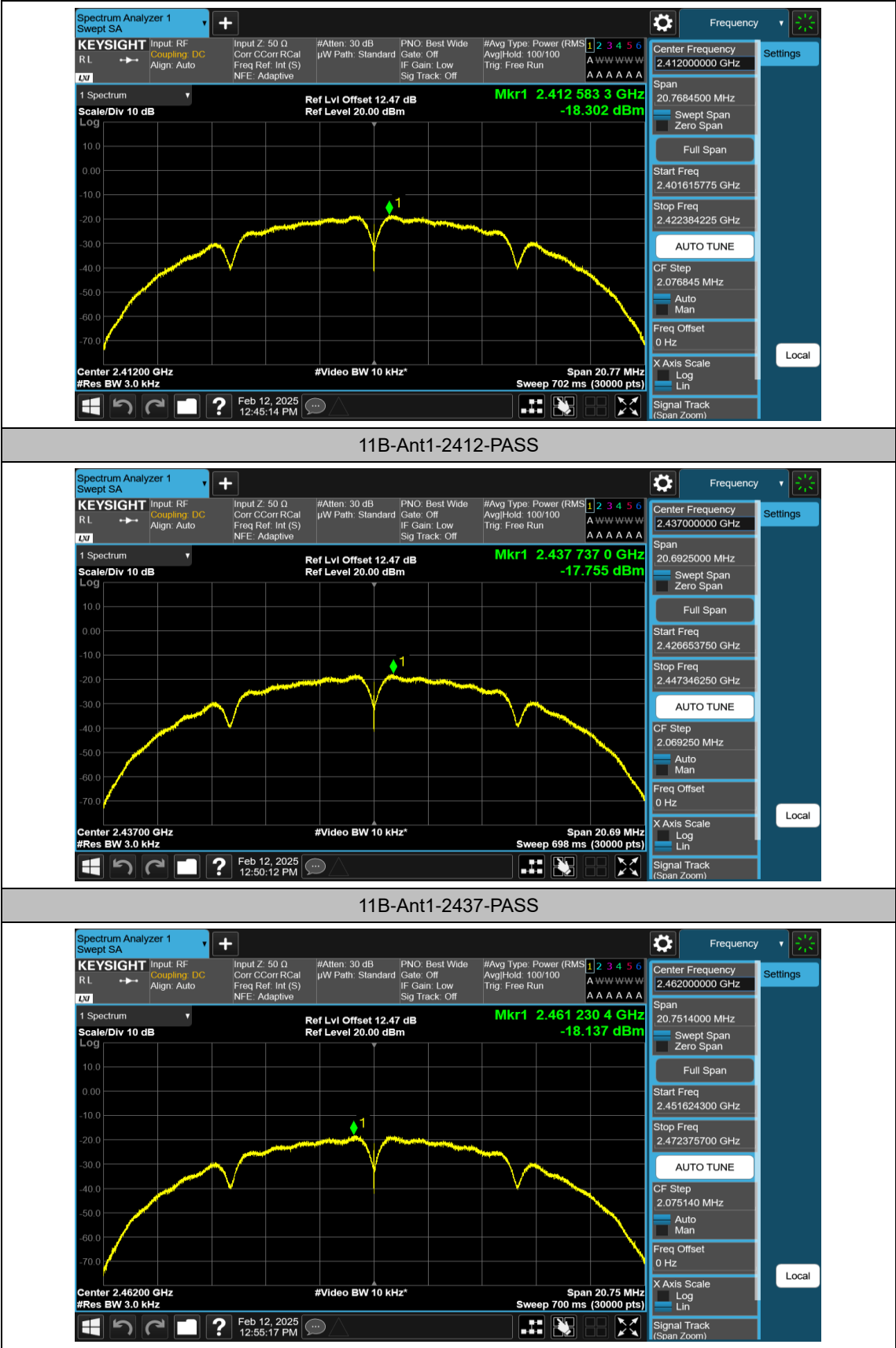
FCC ID:

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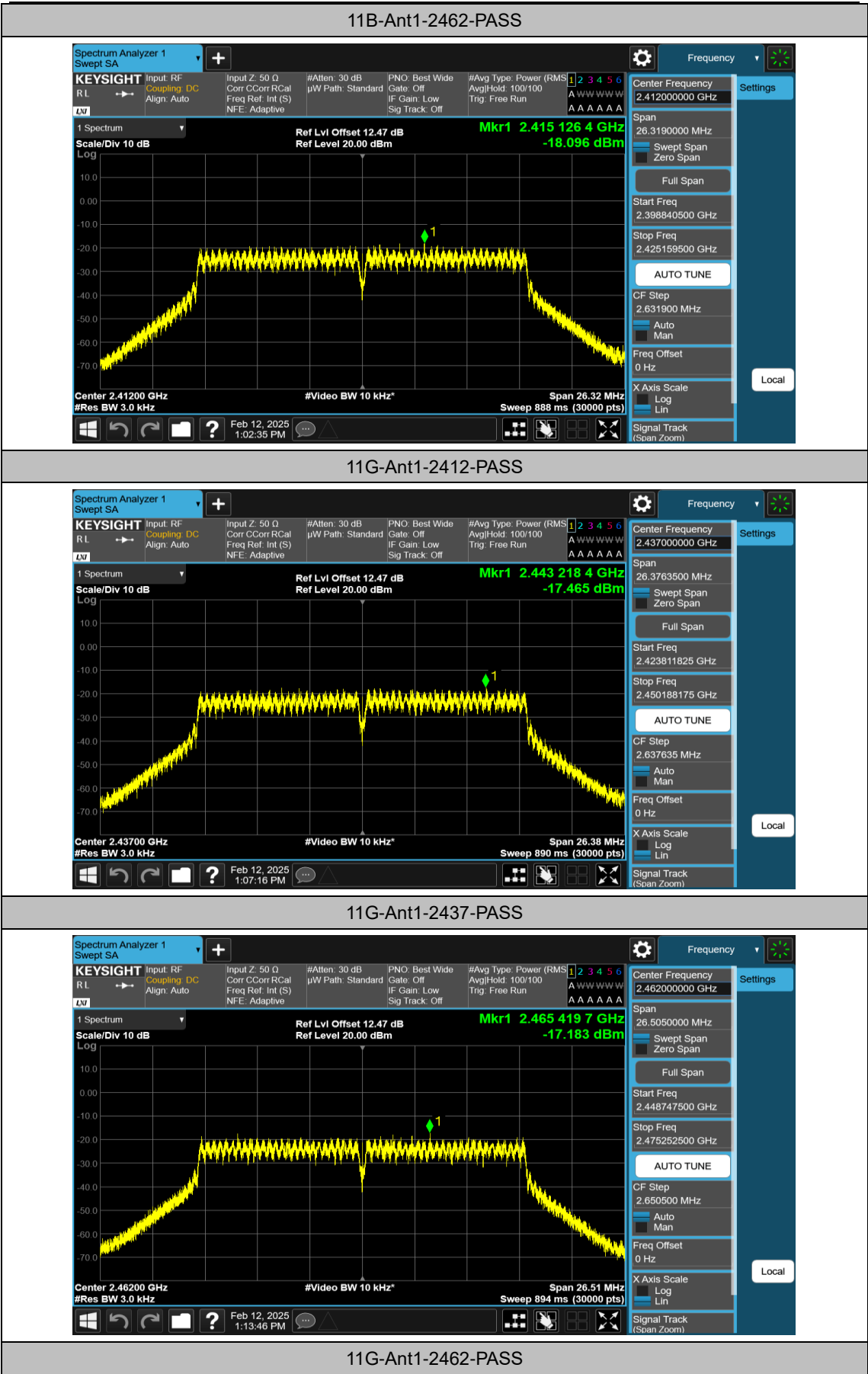
IC:

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Test Graphs

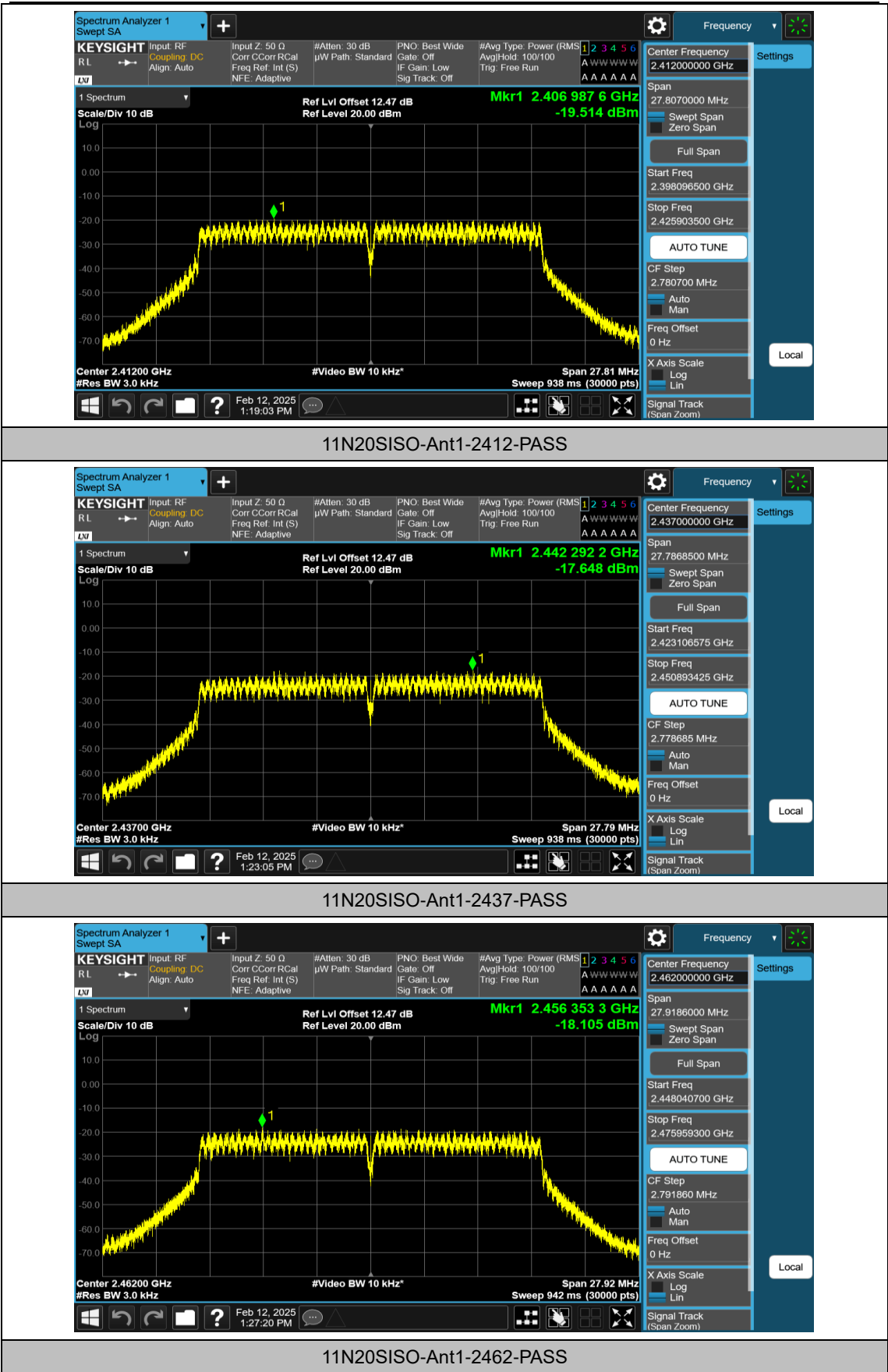


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1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.406 987 6 GHz

-19.514 dBm

Center 2.41200 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 27.81 MHz

Sweep 938 ms (30000 pts)

Feb 12, 2025

1:19:03 PM

11N20SISO-Ant1-2412-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency2.437000000 GHz

Span27.7868500 MHz

Swept Span

Zero Span

Full Span

Start Freq2.423106575 GHz

Stop Freq2.450893425 GHz

AUTO TUNE

CF Step2.778685 MHz

Auto

Man

Freq Offset0 Hz

X Axis ScaleLog

Lin

Signal Track(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.442 292 2 GHz

-17.648 dBm

Center 2.43700 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 27.79 MHz

Sweep 938 ms (30000 pts)

Feb 12, 2025

1:23:05 PM

11N20SISO-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Best Wide

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency2.462000000 GHz

Span27.9186000 MHz

Swept Span

Zero Span

Full Span

Start Freq2.448040700 GHz

Stop Freq2.475959300 GHz

AUTO TUNE

CF Step2.791860 MHz

Auto

Man

Freq Offset0 Hz

X Axis ScaleLog

Lin

Signal Track(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.456 353 3 GHz

-18.105 dBm

Center 2.46200 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 27.92 MHz

Sweep 942 ms (30000 pts)

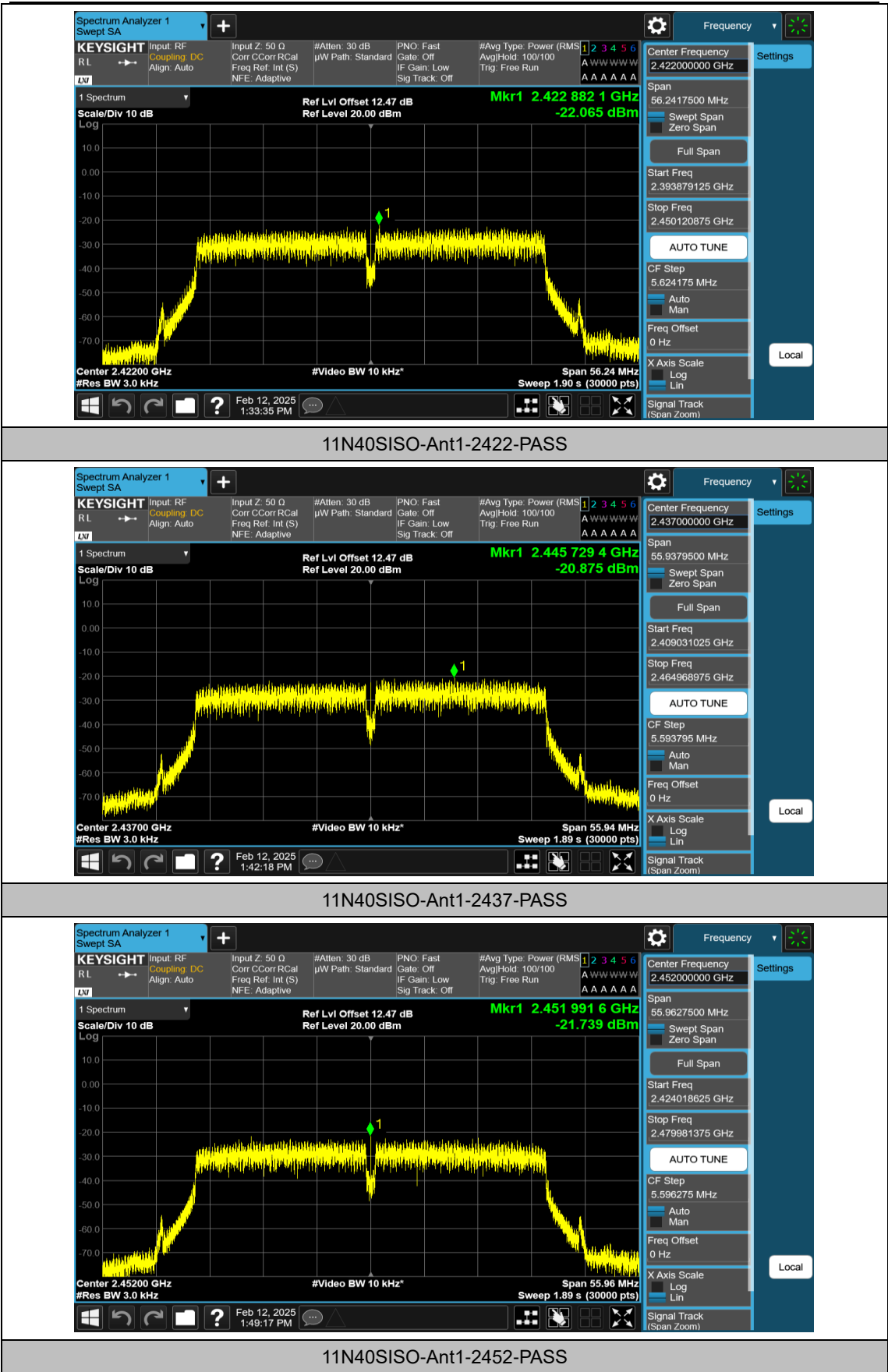
Feb 12, 2025

1:27:20 PM

11N20SISO-Ant1-2462-PASS

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1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.422 882 1 GHz

-22.065 dBm

Center 2.42200 GHz

#Res BW 10 kHz

#Video BW 10 kHz

Span 56.24 MHz

Sweep 1.90 s (30000 pts)

Feb 12, 2025 1:33:35 PM

11N40SISO-Ant1-2422-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency2.437000000 GHz

Span55.9379500 MHz

Swept Span

Zero Span

Full Span

Start Freq2.409031025 GHz

Stop Freq2.464968975 GHz

AUTO TUNE

CF Step5.593795 MHz

Auto

Man

Freq Offset0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.445 729 4 GHz

-20.875 dBm

Center 2.43700 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 55.94 MHz

Sweep 1.89 s (30000 pts)

Feb 12, 2025 1:42:18 PM

11N40SISO-Ant1-2437-PASS

Spectrum Analyzer 1

Swept SA

KEYSIGHT

Input: RF

Coupling: DC

Align: Auto

Input Z: 50 Ω

Corr: CCorr RCal

Freq Ref: Int (S)

NFE: Adaptive

#Atten: 30 dB

μ W Path: Standard

PNO: Fast

Gate: Off

IF Gain: Low

Sig Track: Off

#Avg Type: Power (RMS)

Avg/Hold: 100/100

Trig: Free Run

1 2 3 4 5 6

A W W W W W

A A A A A A

Center Frequency2.452000000 GHz

Span55.9627500 MHz

Swept Span

Zero Span

Full Span

Start Freq2.424018625 GHz

Stop Freq2.479981375 GHz

AUTO TUNE

CF Step5.596275 MHz

Auto

Man

Freq Offset0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

Local

1 Spectrum

Scale/Div 10 dB

Log

Ref Lvl Offset 12.47 dB

Ref Level 20.00 dBm

Mkr1 2.451 991 6 GHz

-21.739 dBm

Center 2.45200 GHz

#Res BW 3.0 kHz

#Video BW 10 kHz

Span 55.96 MHz

Sweep 1.89 s (30000 pts)

Feb 12, 2025 1:49:17 PM

11N40SISO-Ant1-2452-PASS

FCC ID: 2A64B-DLX71

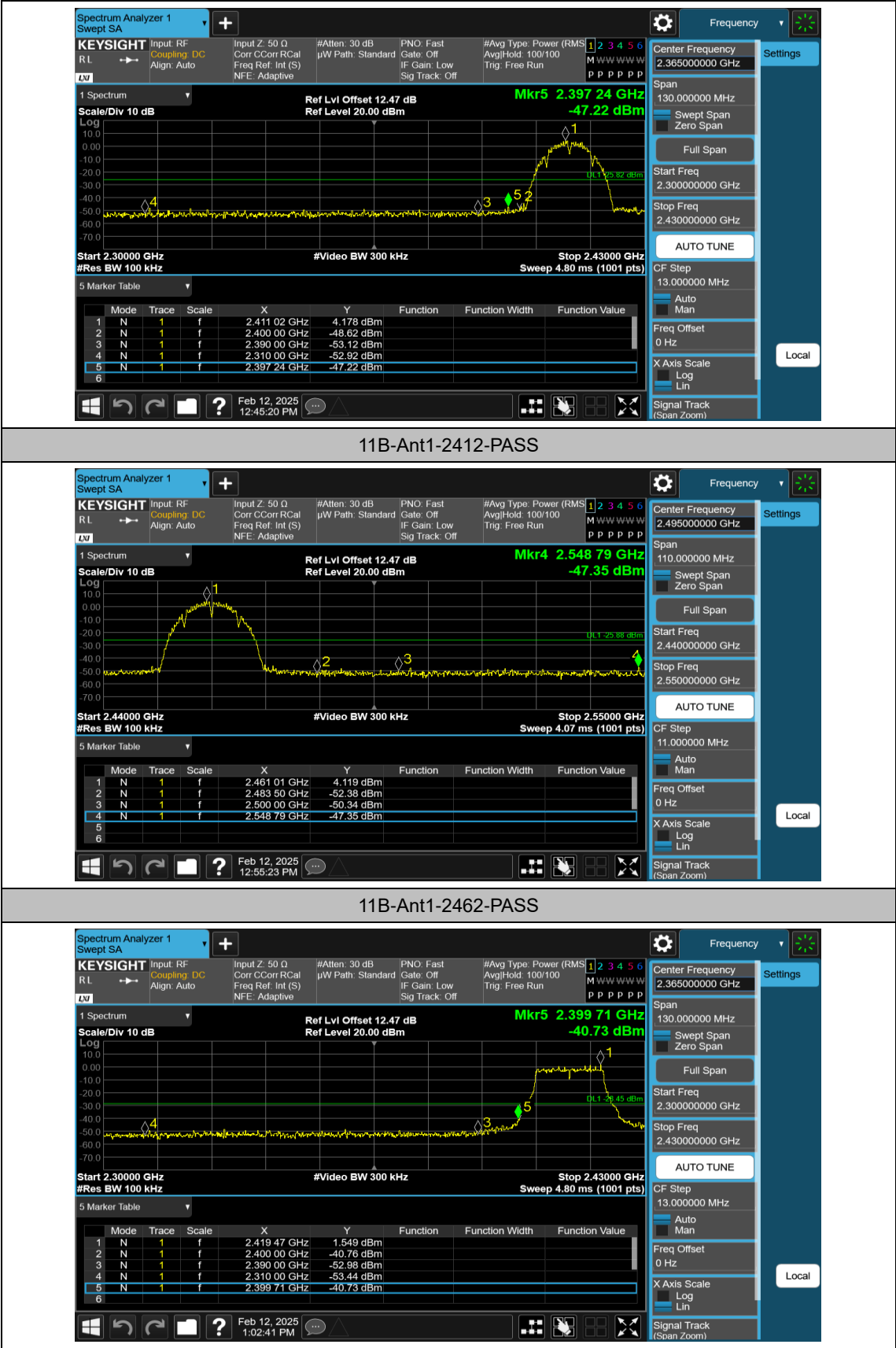
IC: 28593-DLX71

Band edge measurements

Test Result

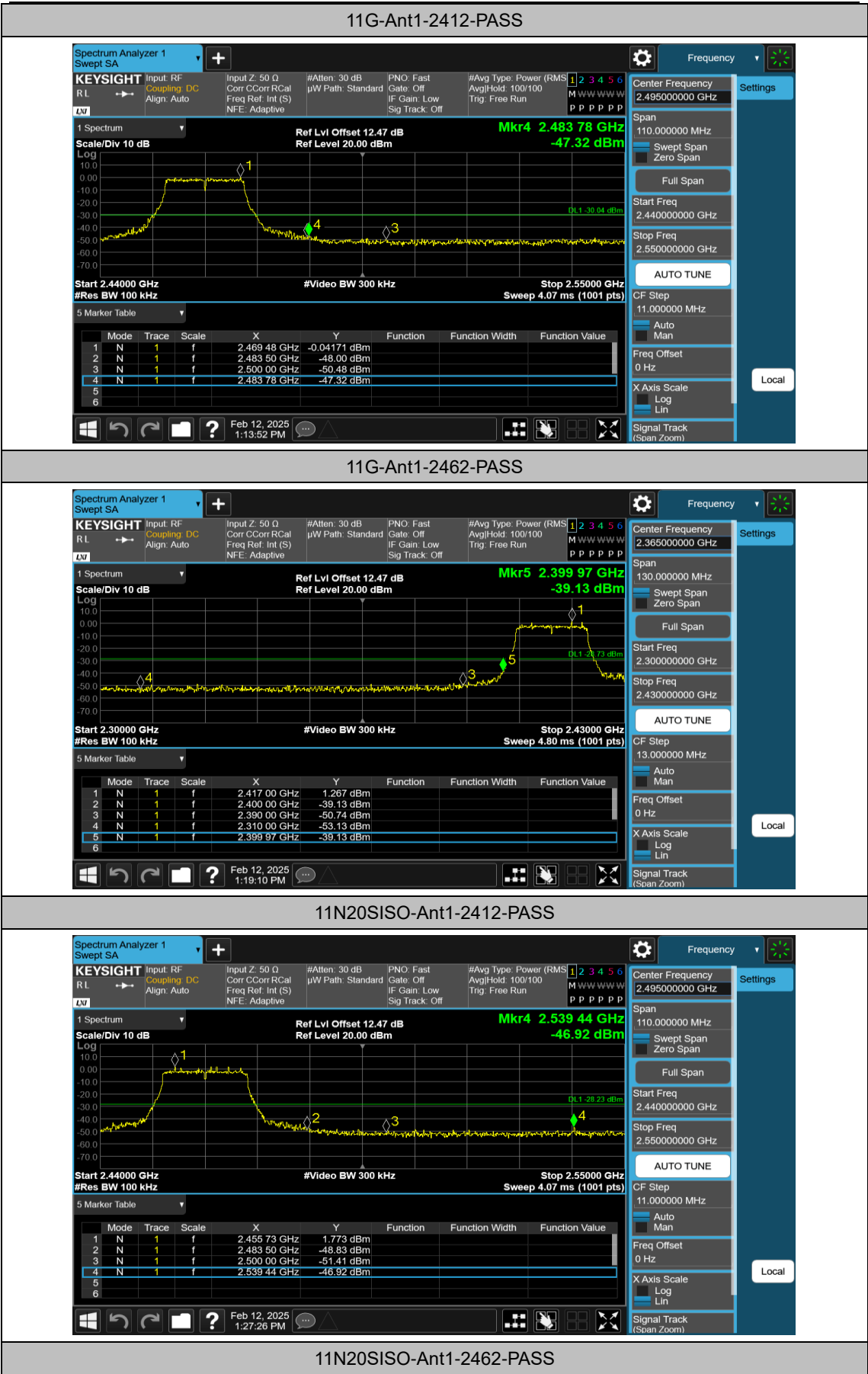
TestMode	Antenna	ChName	Frequency [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	Low	2412	4.18	-47.22	≤-25.82	PASS
11B	Ant1	High	2462	4.12	-47.35	≤-25.88	PASS
11G	Ant1	Low	2412	1.55	-40.73	≤-28.45	PASS
11G	Ant1	High	2462	-0.04	-47.32	≤-30.04	PASS
11N20SISO	Ant1	Low	2412	1.27	-39.13	≤-28.73	PASS
11N20SISO	Ant1	High	2462	1.77	-46.92	≤-28.23	PASS
11N40SISO	Ant1	Low	2422	-2.85	-40.87	≤-32.85	PASS
11N40SISO	Ant1	High	2452	-2.00	-47.62	≤-32	PASS

Test Graphs

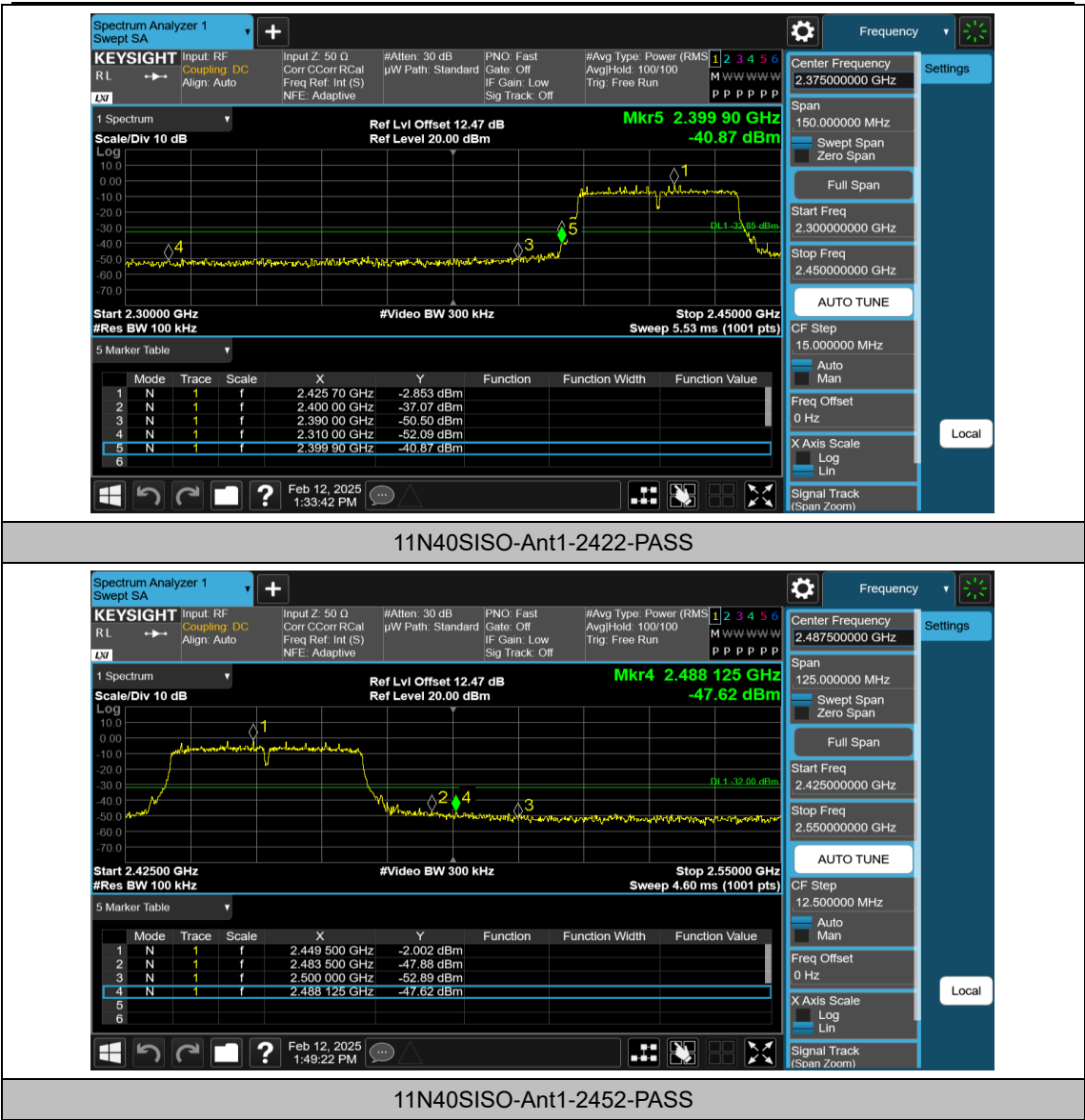


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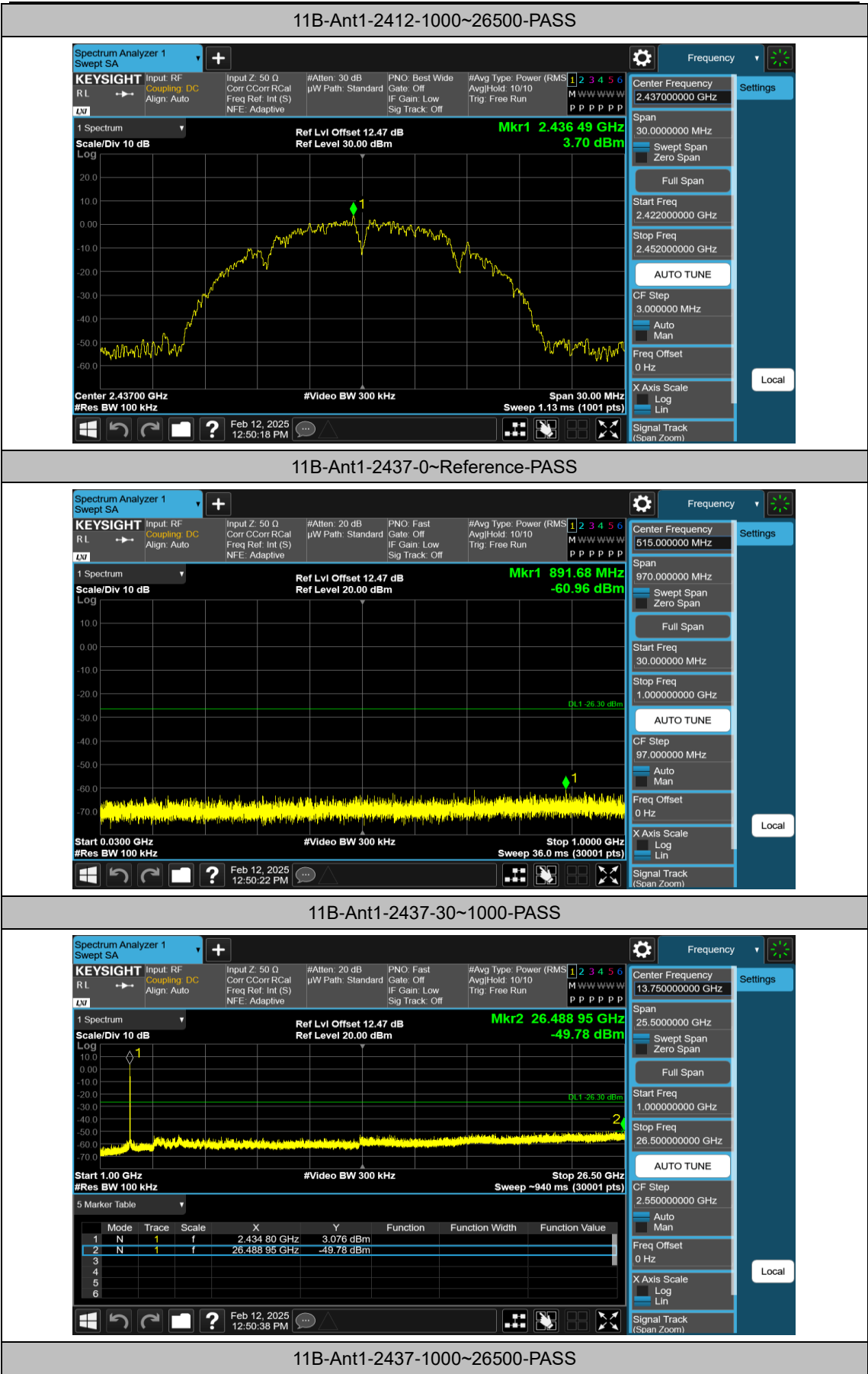
IC: 28593-DLX71

Conducted Spurious Emission

Test Result

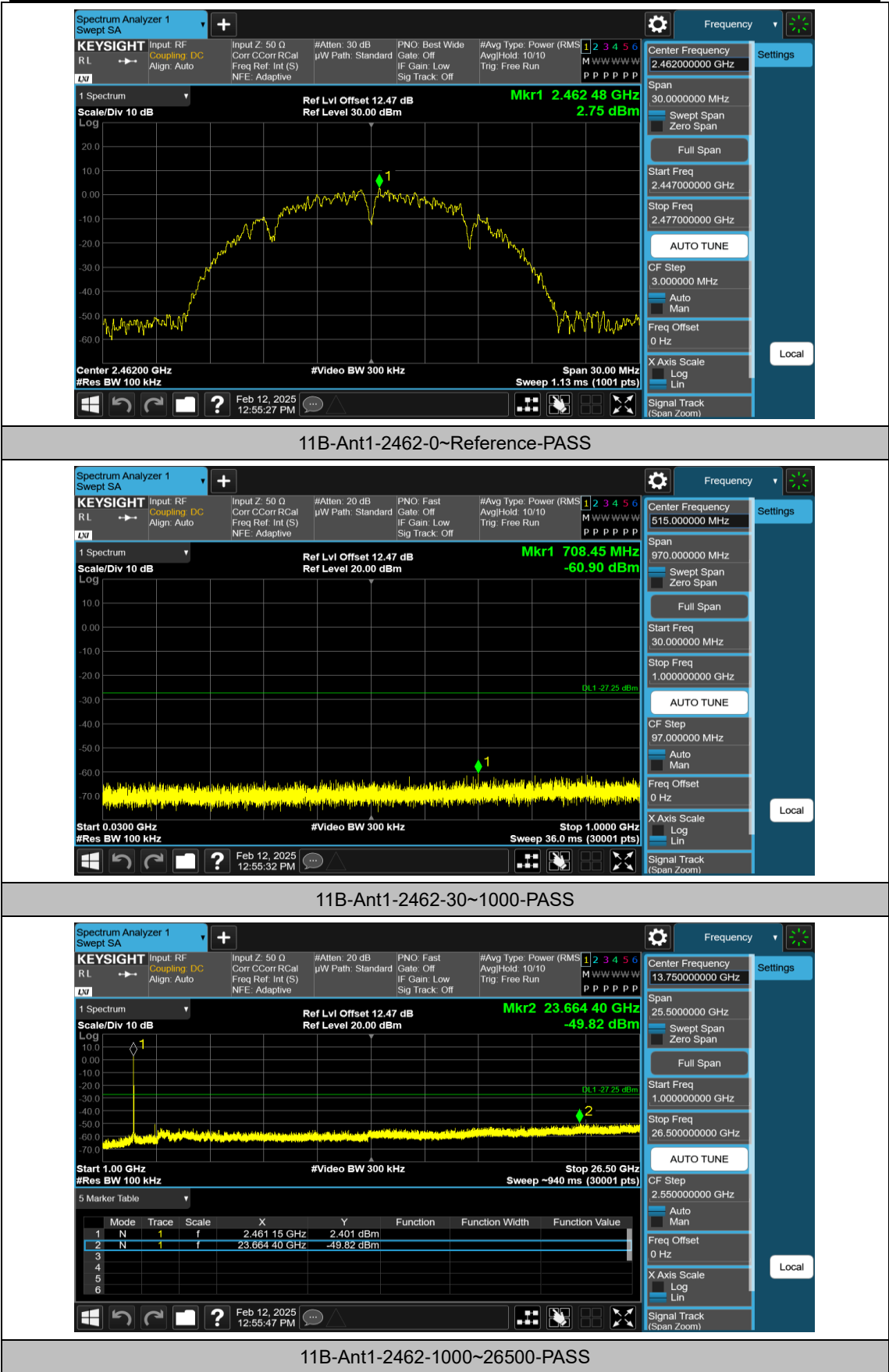
TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	0~Reference	3.24	3.24	---	PASS
11B	Ant1	2412	30~1000	3.24	-60.74	≤-26.76	PASS
11B	Ant1	2412	1000~26500	3.24	-47.98	≤-26.76	PASS
11B	Ant1	2437	0~Reference	3.70	3.70	---	PASS
11B	Ant1	2437	30~1000	3.70	-60.96	≤-26.3	PASS
11B	Ant1	2437	1000~26500	3.70	-49.78	≤-26.3	PASS
11B	Ant1	2462	0~Reference	2.75	2.75	---	PASS
11B	Ant1	2462	30~1000	2.75	-60.9	≤-27.25	PASS
11B	Ant1	2462	1000~26500	2.75	-49.82	≤-27.25	PASS
11G	Ant1	2412	0~Reference	-1.59	-1.59	---	PASS
11G	Ant1	2412	30~1000	-1.59	-61.64	≤-31.59	PASS
11G	Ant1	2412	1000~26500	-1.59	-49.3	≤-31.59	PASS
11G	Ant1	2437	0~Reference	2.87	2.87	---	PASS
11G	Ant1	2437	30~1000	2.87	-61.27	≤-27.13	PASS
11G	Ant1	2437	1000~26500	2.87	-49.14	≤-27.13	PASS
11G	Ant1	2462	0~Reference	1.89	1.89	---	PASS
11G	Ant1	2462	30~1000	1.89	-61.3	≤-28.11	PASS
11G	Ant1	2462	1000~26500	1.89	-41.68	≤-28.11	PASS
11N20SISO	Ant1	2412	0~Reference	-2.03	-2.03	---	PASS
11N20SISO	Ant1	2412	30~1000	-2.03	-60.48	≤-32.03	PASS
11N20SISO	Ant1	2412	1000~26500	-2.03	-47.74	≤-32.03	PASS
11N20SISO	Ant1	2437	0~Reference	2.75	2.75	---	PASS
11N20SISO	Ant1	2437	30~1000	2.75	-60.38	≤-27.25	PASS
11N20SISO	Ant1	2437	1000~26500	2.75	-49.18	≤-27.25	PASS
11N20SISO	Ant1	2462	0~Reference	-0.95	-0.95	---	PASS
11N20SISO	Ant1	2462	30~1000	-0.95	-60.74	≤-30.95	PASS
11N20SISO	Ant1	2462	1000~26500	-0.95	-49.19	≤-30.95	PASS
11N40SISO	Ant1	2422	0~Reference	-3.74	-3.74	---	PASS
11N40SISO	Ant1	2422	30~1000	-3.74	-59.11	≤-33.74	PASS
11N40SISO	Ant1	2422	1000~26500	-3.74	-48.89	≤-33.74	PASS
11N40SISO	Ant1	2437	0~Reference	-3.32	-3.32	---	PASS
11N40SISO	Ant1	2437	30~1000	-3.32	-60.07	≤-33.32	PASS
11N40SISO	Ant1	2437	1000~26500	-3.32	-48.98	≤-33.32	PASS
11N40SISO	Ant1	2452	0~Reference	-4.46	-4.46	---	PASS
11N40SISO	Ant1	2452	30~1000	-4.46	-61.75	≤-34.46	PASS
11N40SISO	Ant1	2452	1000~26500	-4.46	-41.79	≤-34.46	PASS

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