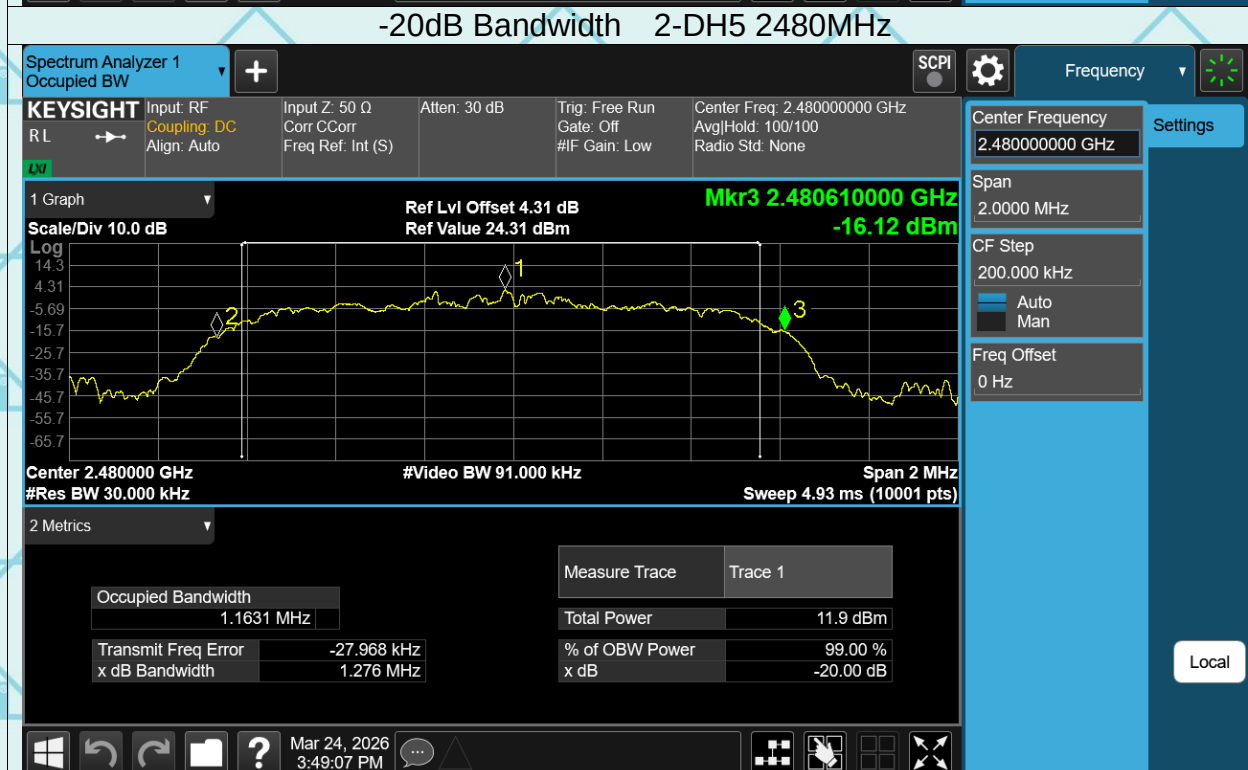
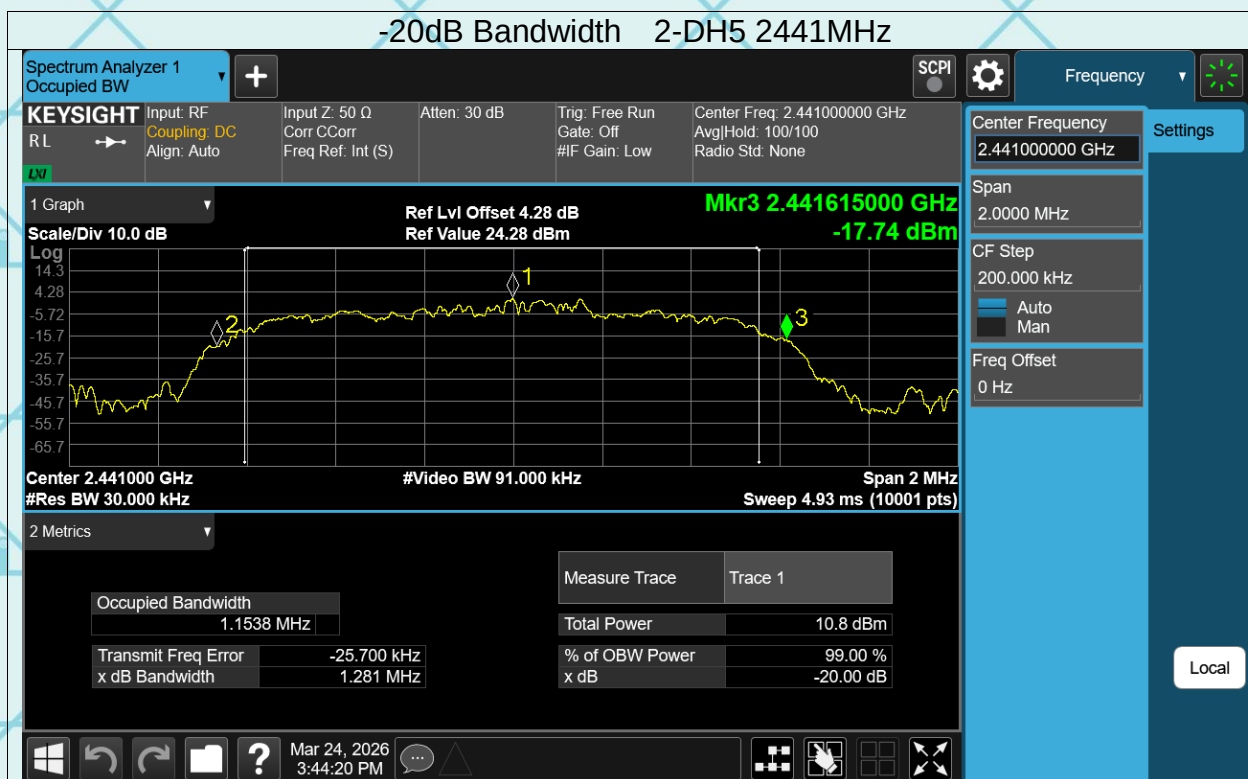
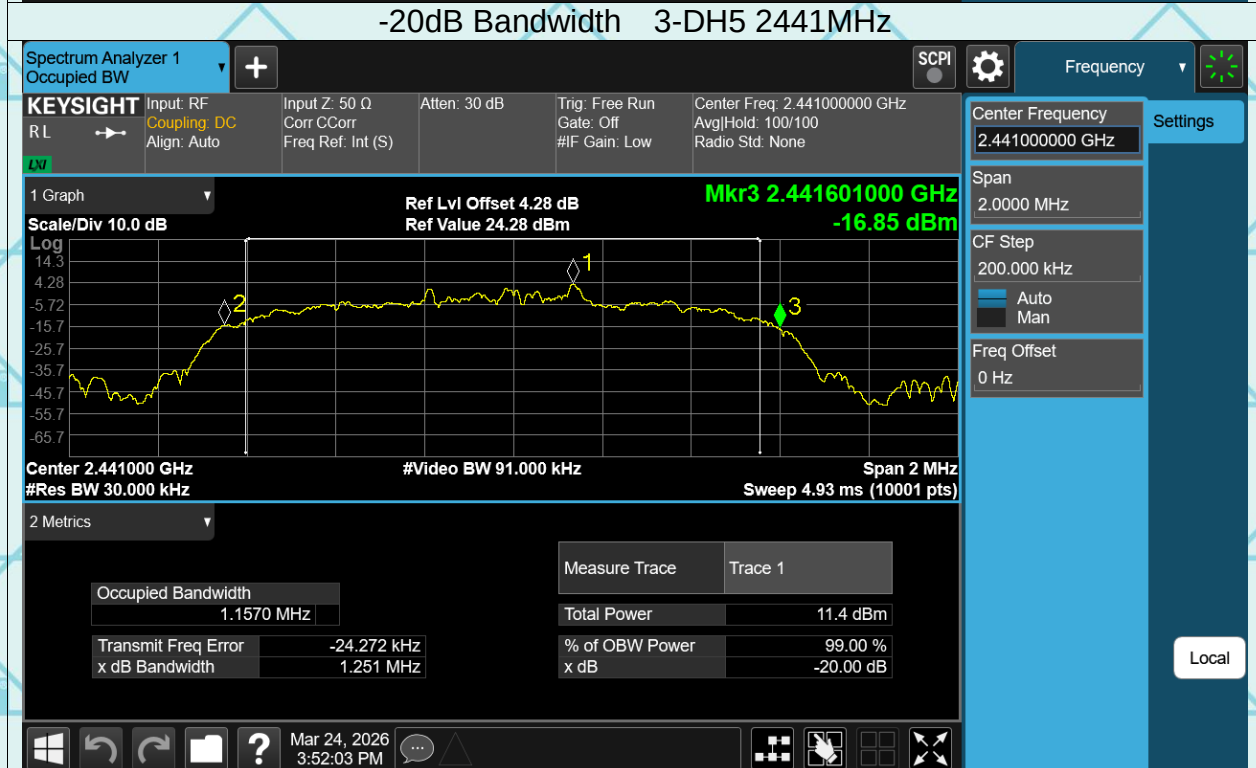
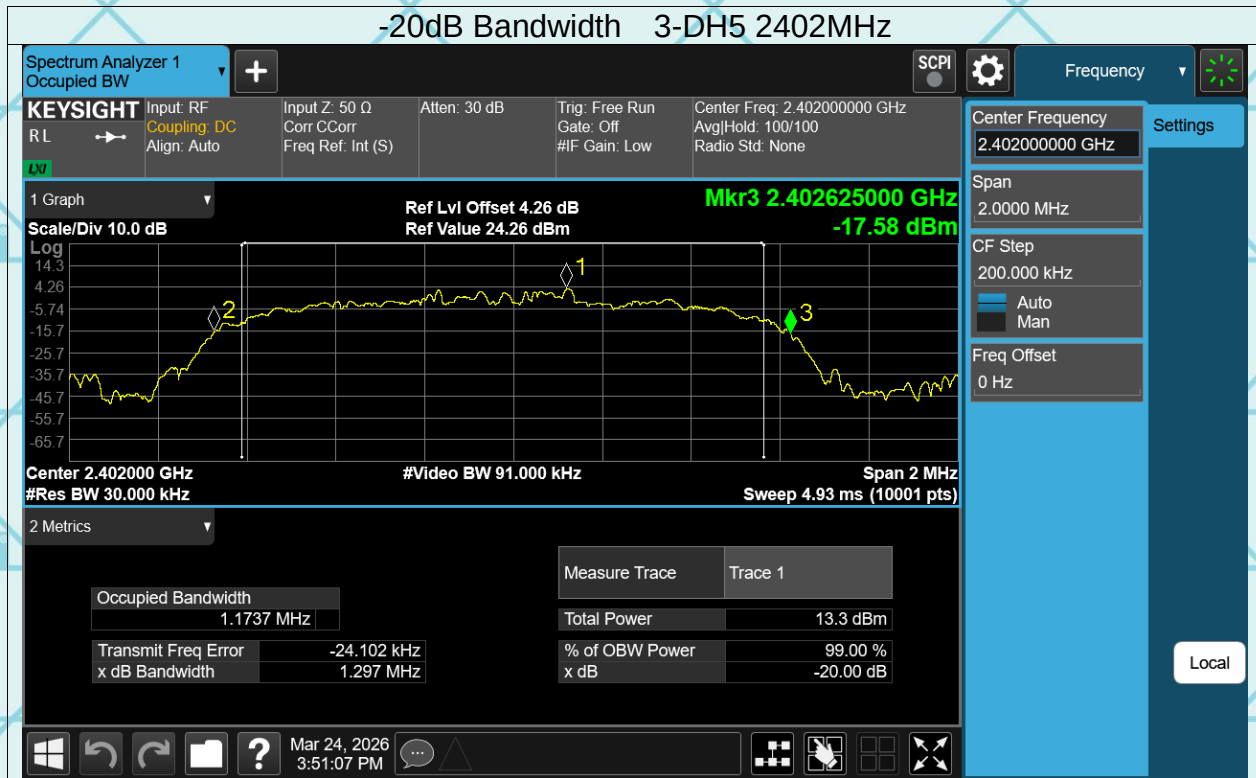
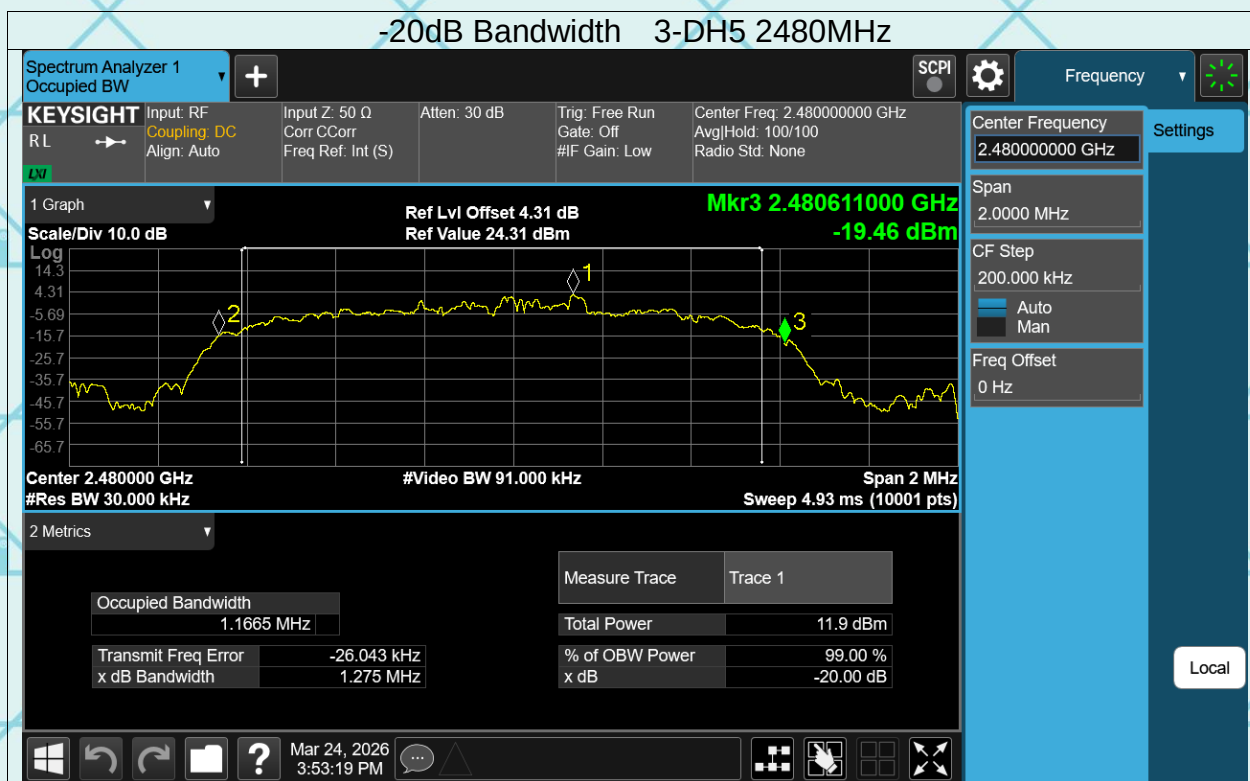




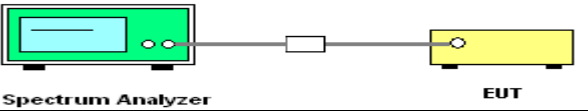


Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026



6.5. Carrier Frequencies Separation

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report.
Test Result:	PASS

6.5.2. Test data

ANT1

Test mode	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
GFSK mode	Lowest	1.186	0.561	PASS
	Middle	0.998	0.561	PASS
	Highest	0.998	0.562	PASS
Pi/4DQ PSK	Lowest	0.848	0.844	PASS
	Middle	0.996	0.845	PASS
	Highest	0.994	0.854	PASS
8DPSK	Lowest	0.998	0.855	PASS
	Middle	1.140	0.848	PASS
	Highest	1.140	0.857	PASS

ANT2

Test mode	Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
GFSK mode	Lowest	1.000	0.563	PASS
	Middle	0.956	0.570	PASS
	Highest	1.148	0.561	PASS
Pi/4DQ PSK	Lowest	1.006	0.847	PASS
	Middle	0.856	0.854	PASS
	Highest	0.996	0.851	PASS
8DPSK	Lowest	0.998	0.865	PASS
	Middle	1.130	0.834	PASS
	Highest	1.150	0.850	PASS

Test plots as follows:

Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

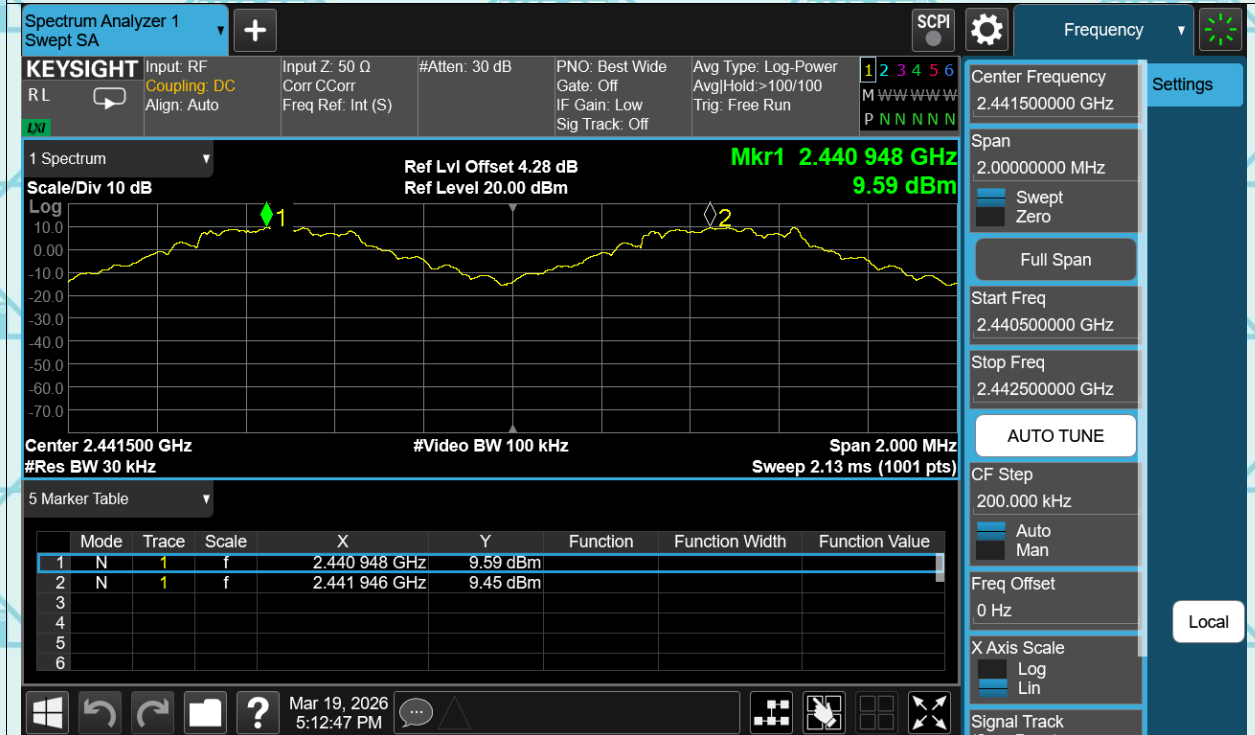
ANT1

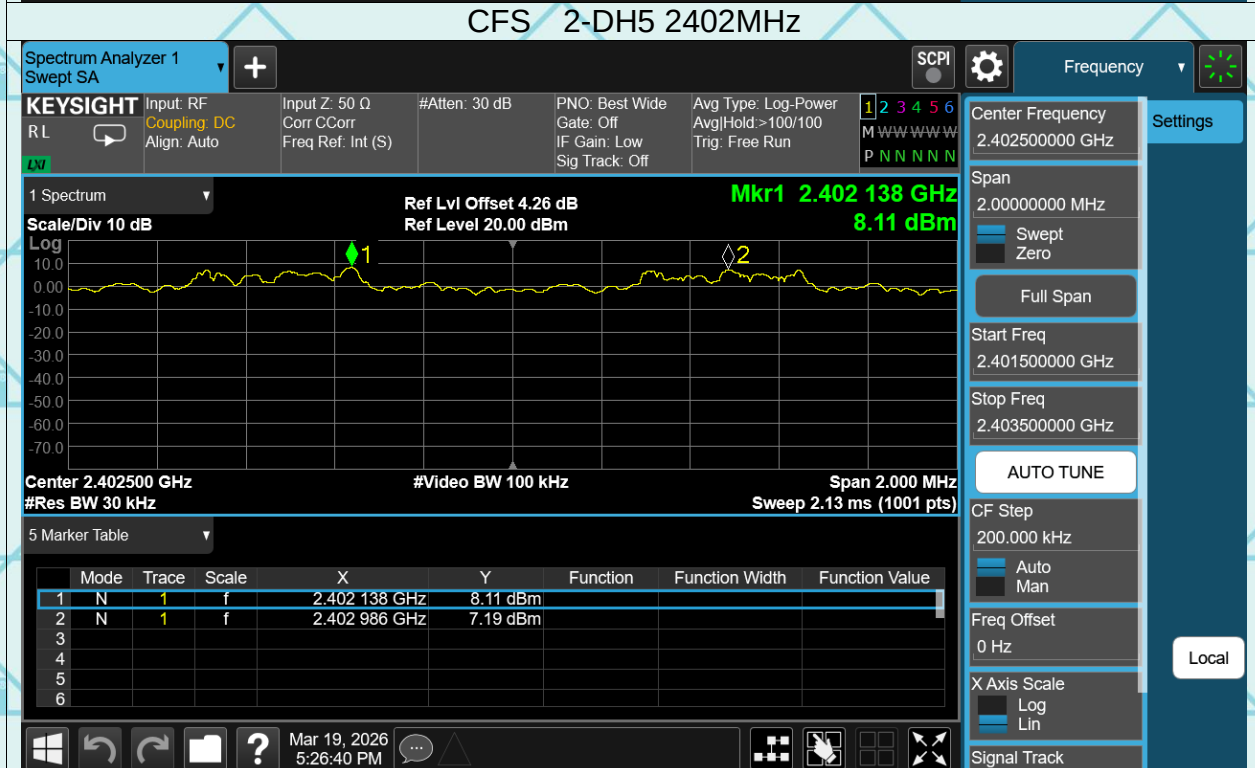
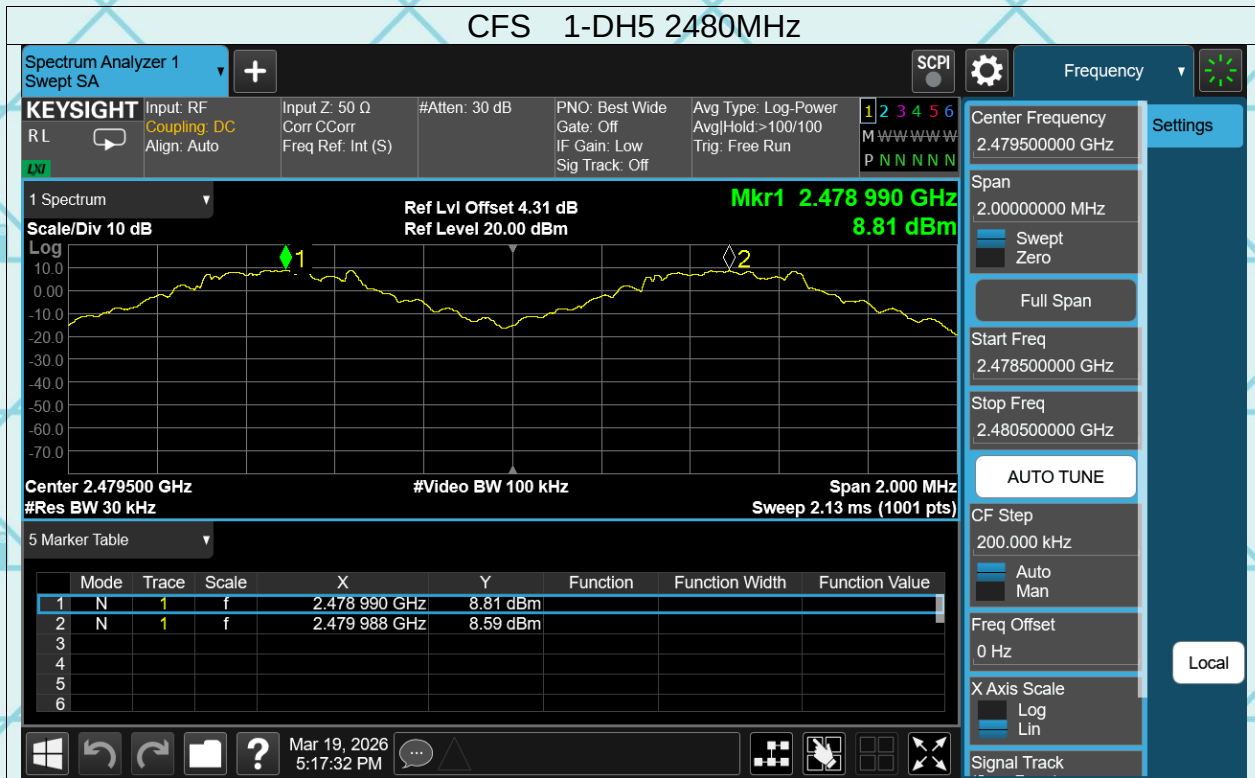
Test Graphs

CFS 1-DH5 2402MHz

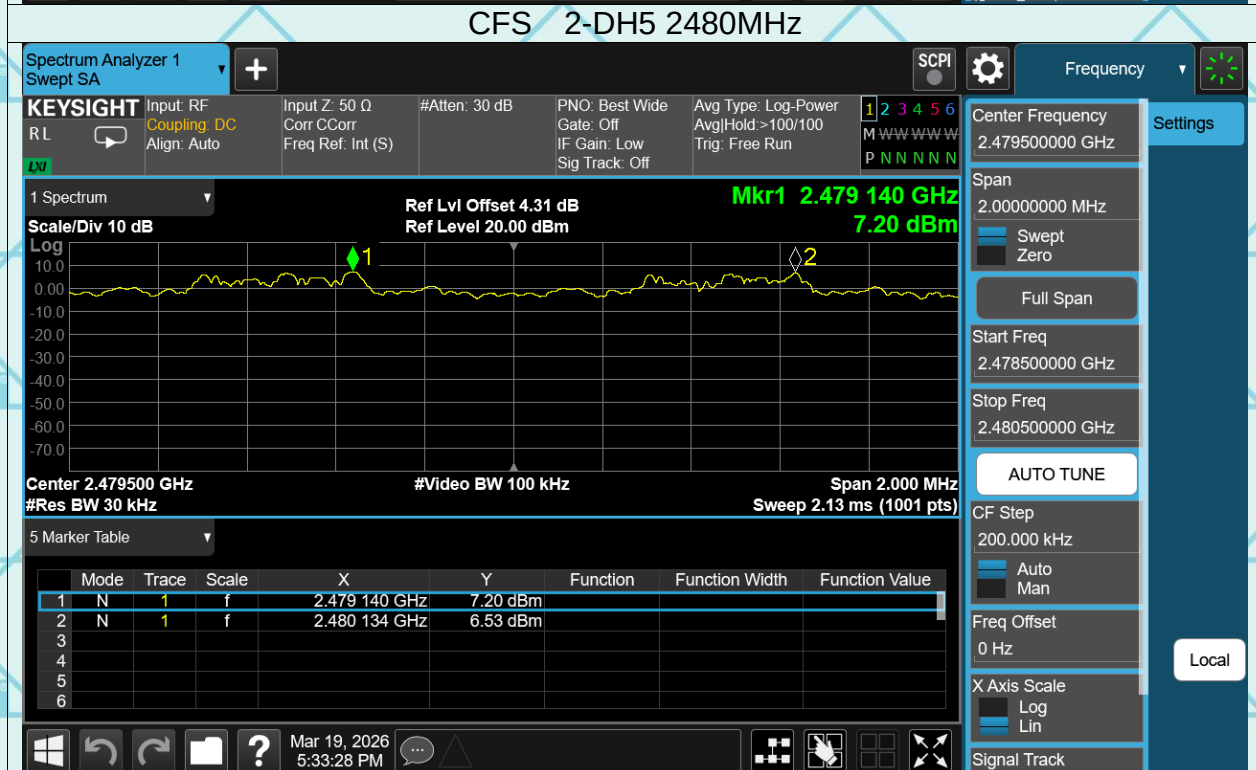
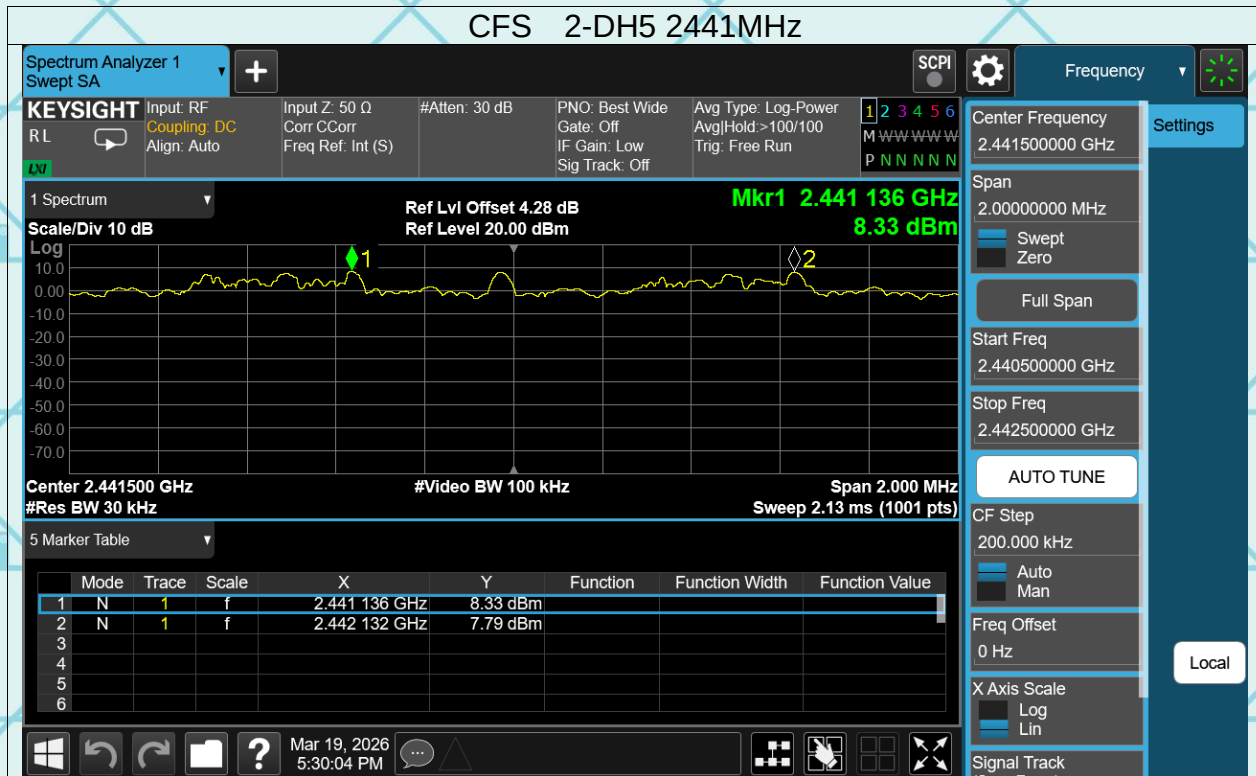


CFS 1-DH5 2441MHz

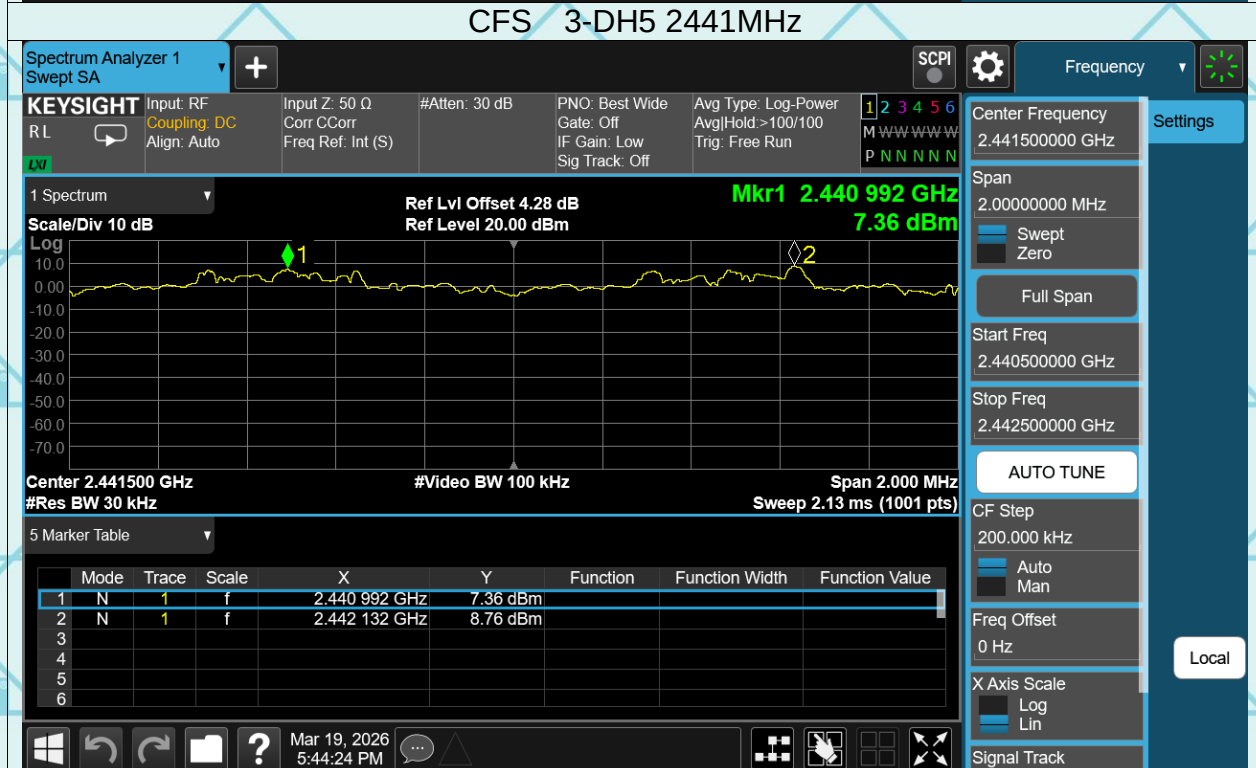
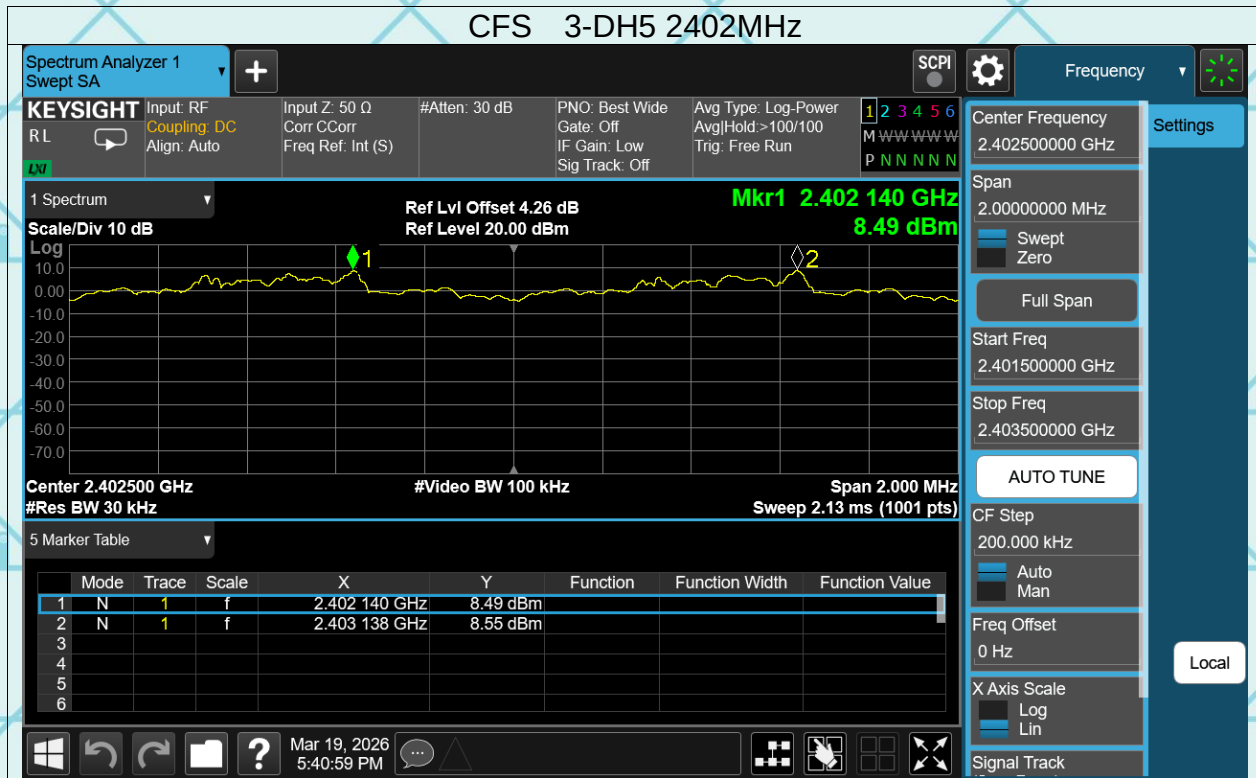




Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026



Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

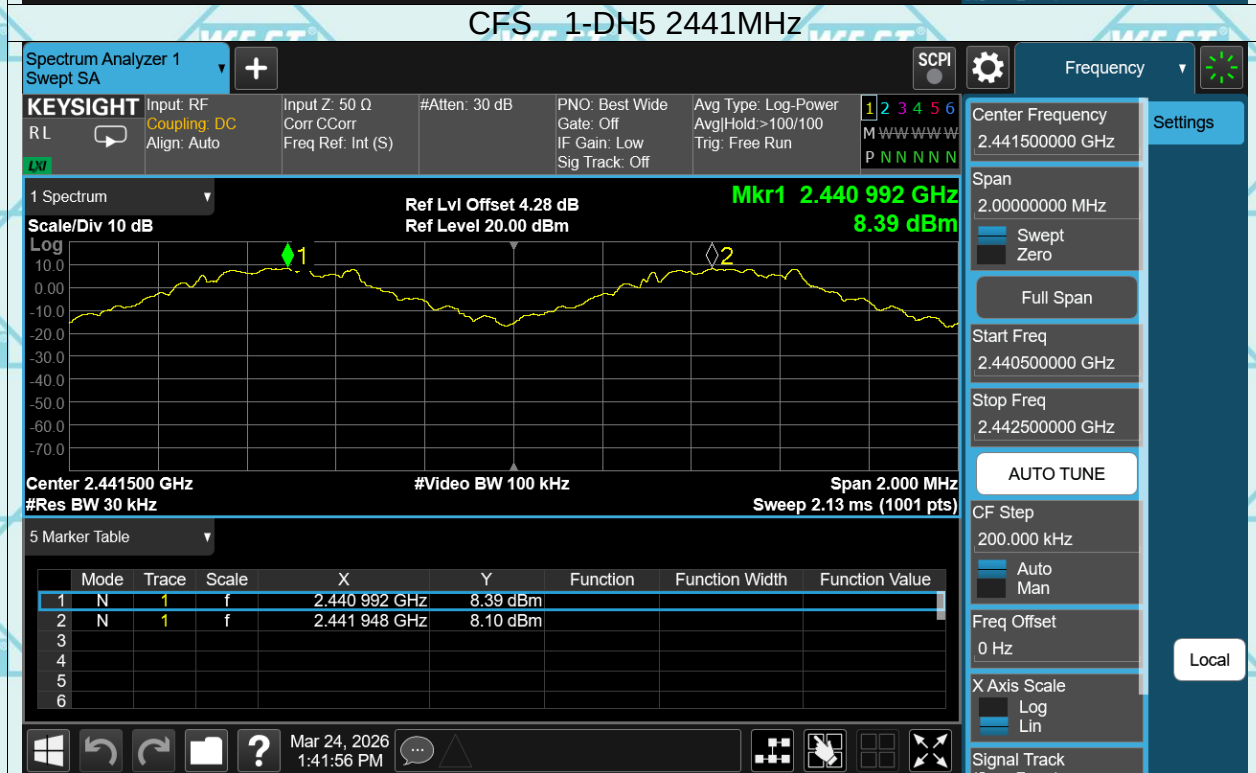
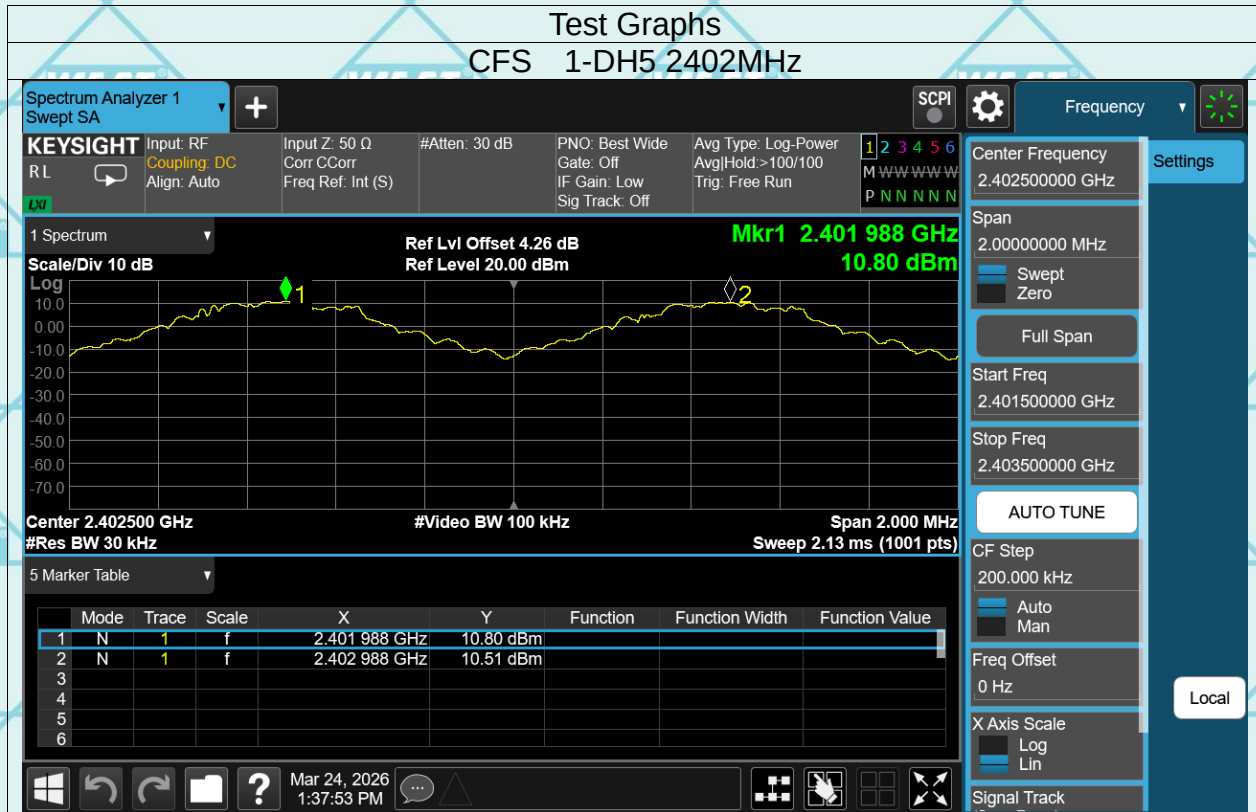


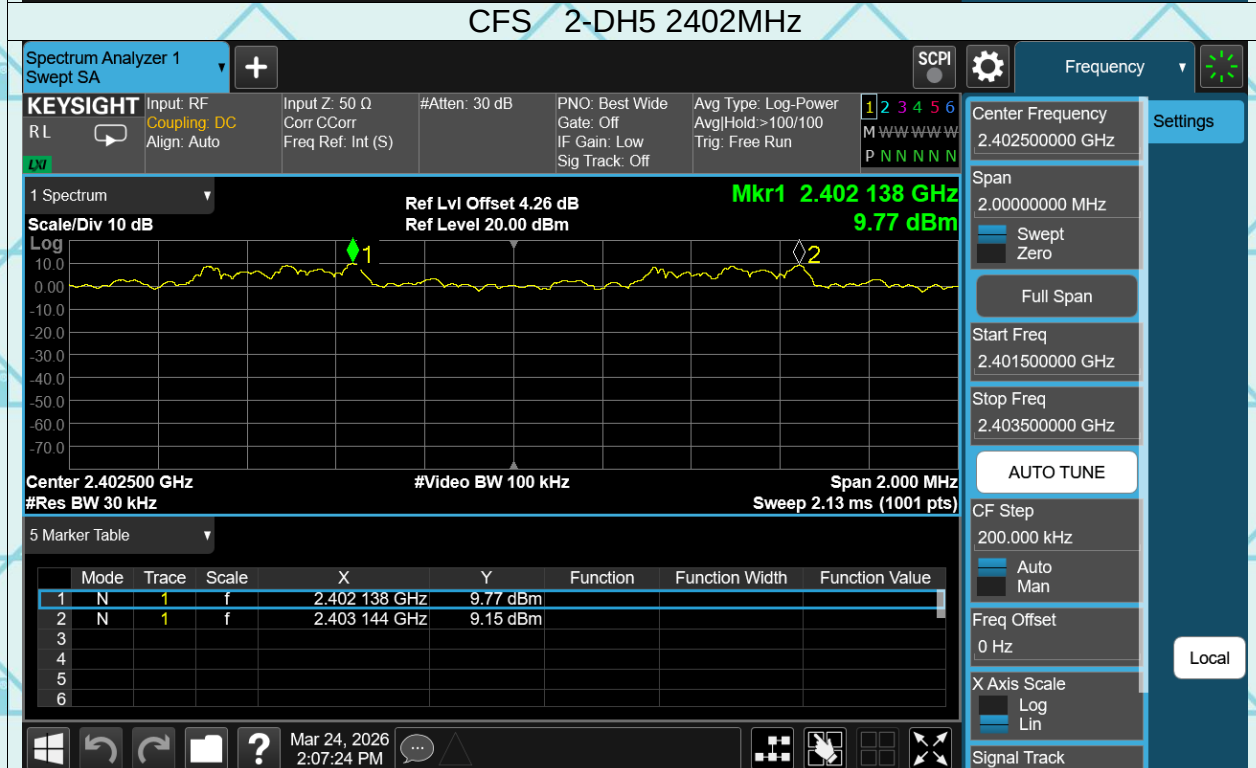
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026



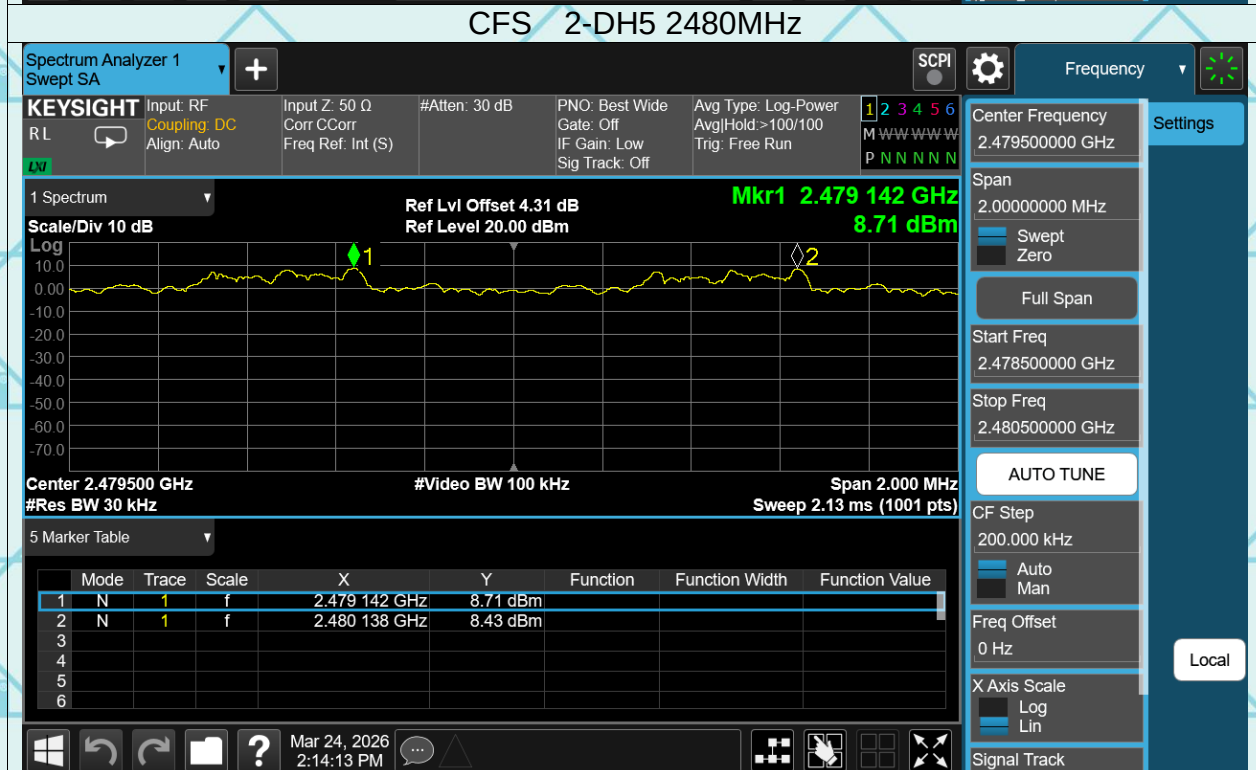
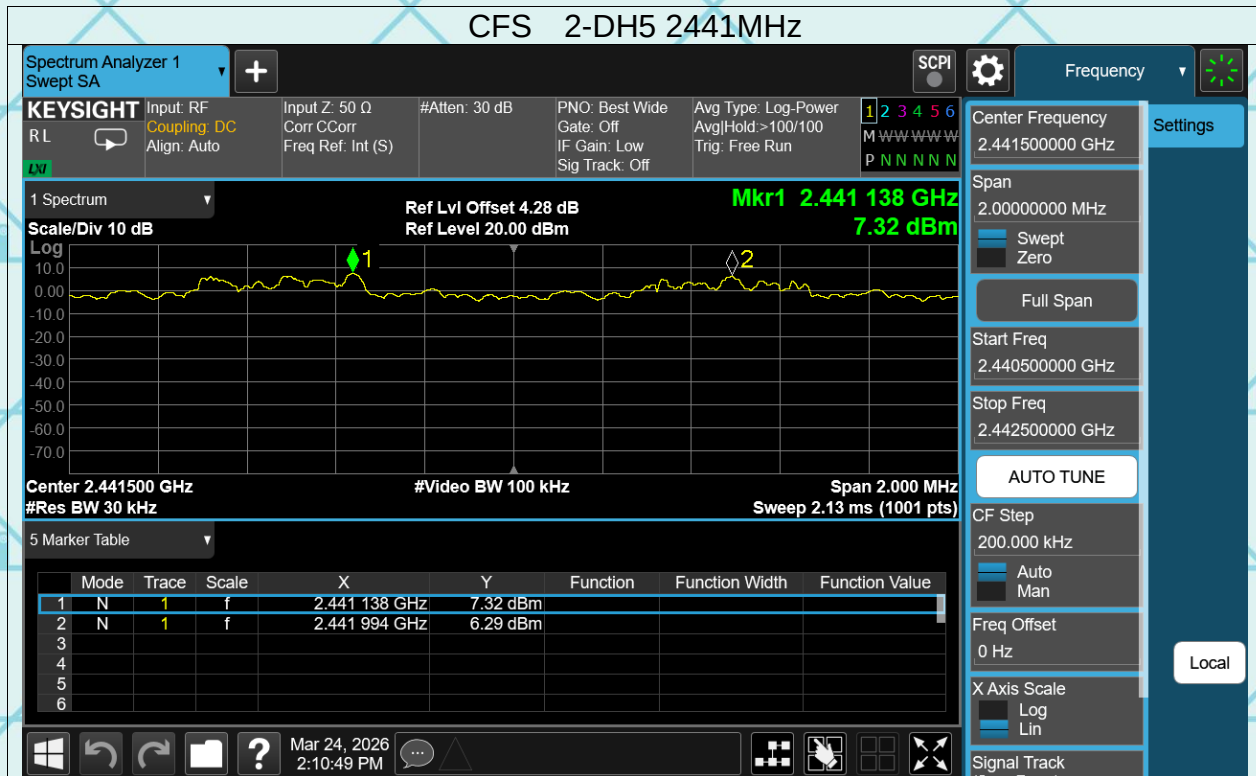
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

ANT2

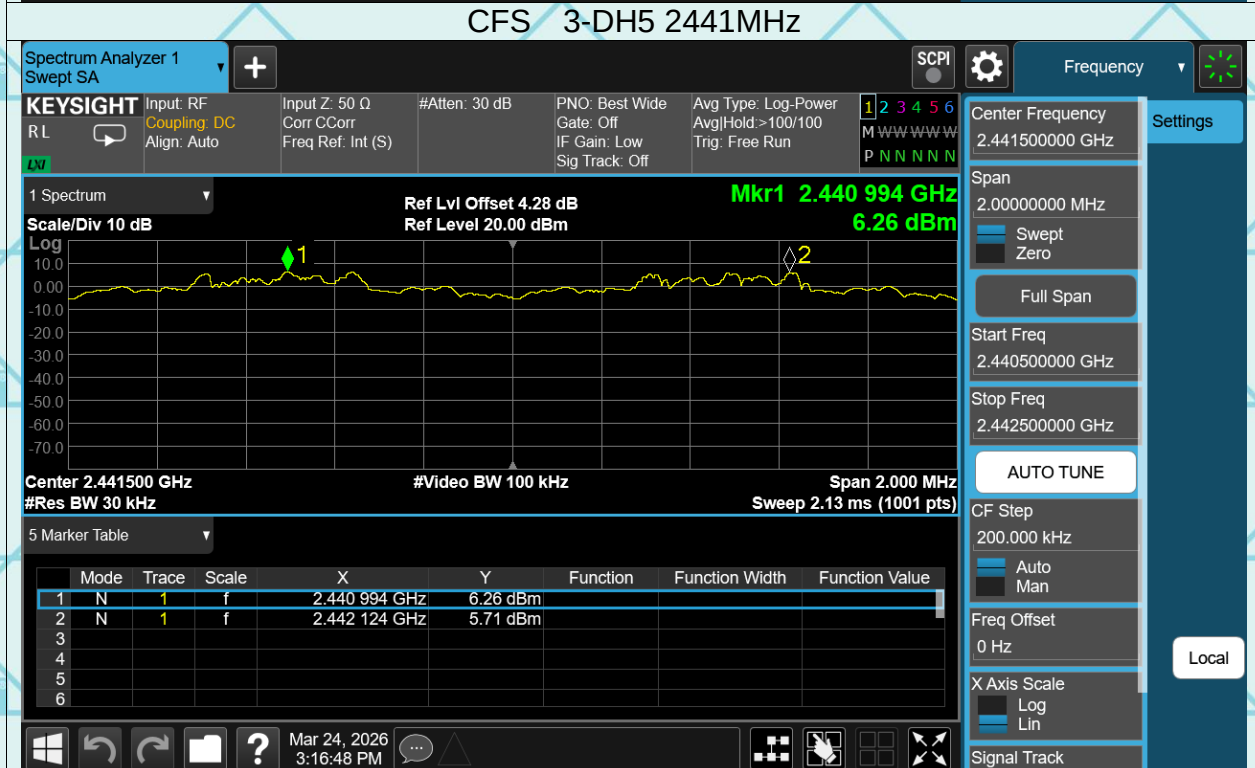
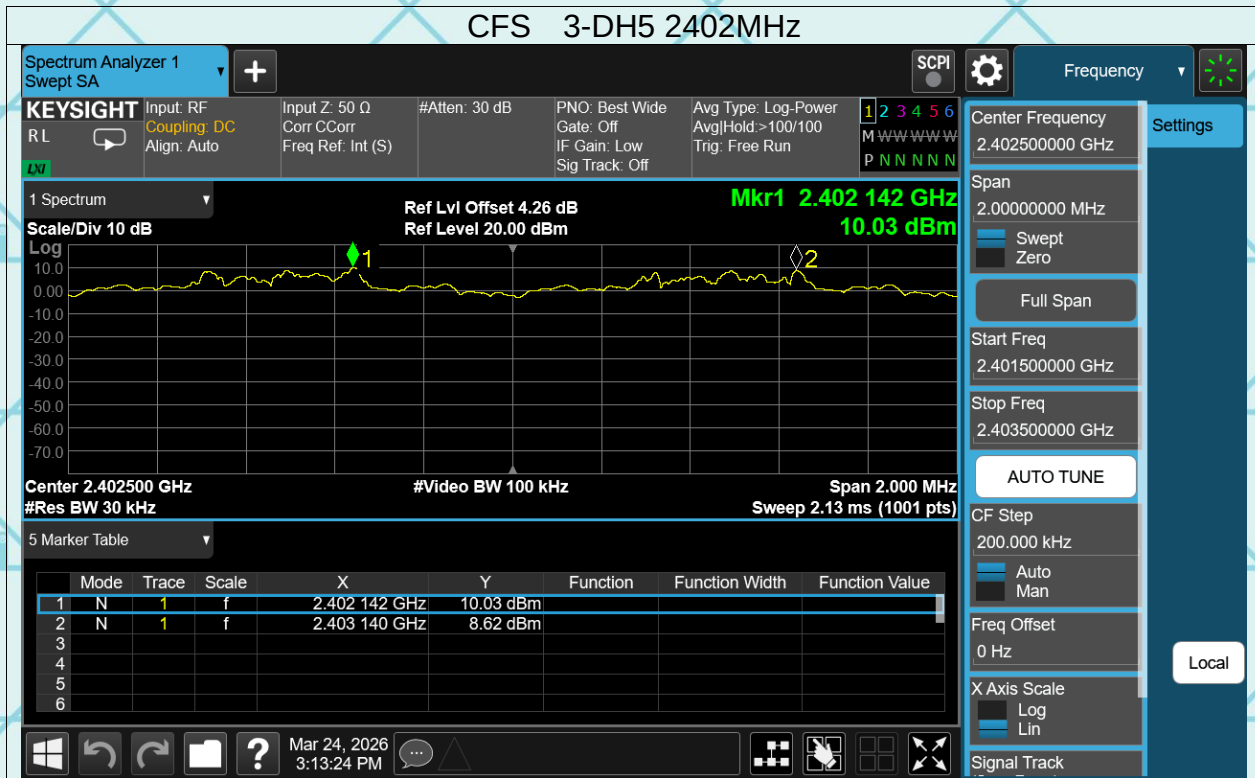




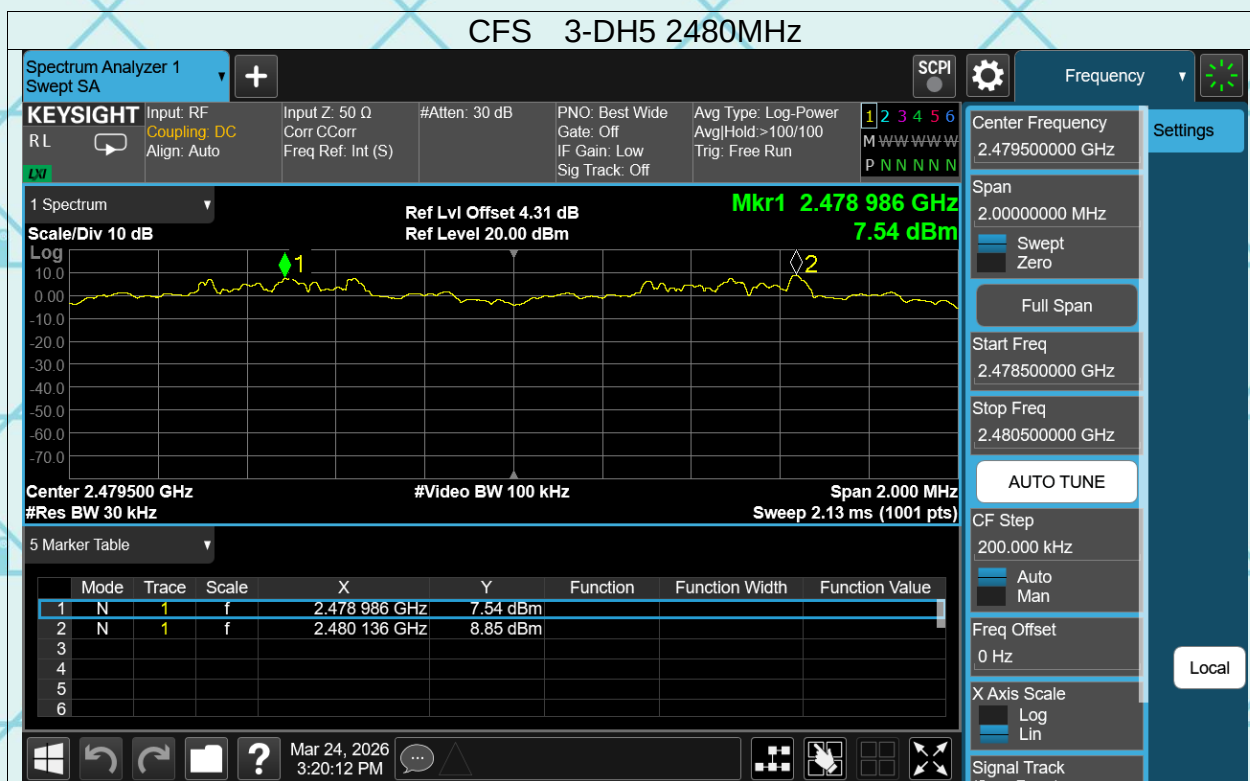
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026



Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

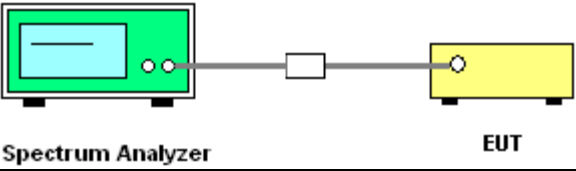


Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026



6.6. Hopping Channel Number

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. 6. The number of hopping frequency used is defined as the number of total channel. 7. Record the measurement data in report.
Test Result:	PASS

6.6.2. Test data

ANT1

Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS

ANT2

Mode	Hopping channel numbers	Limit	Result
GFSK, P/4-DQPSK, 8DPSK	79	15	PASS

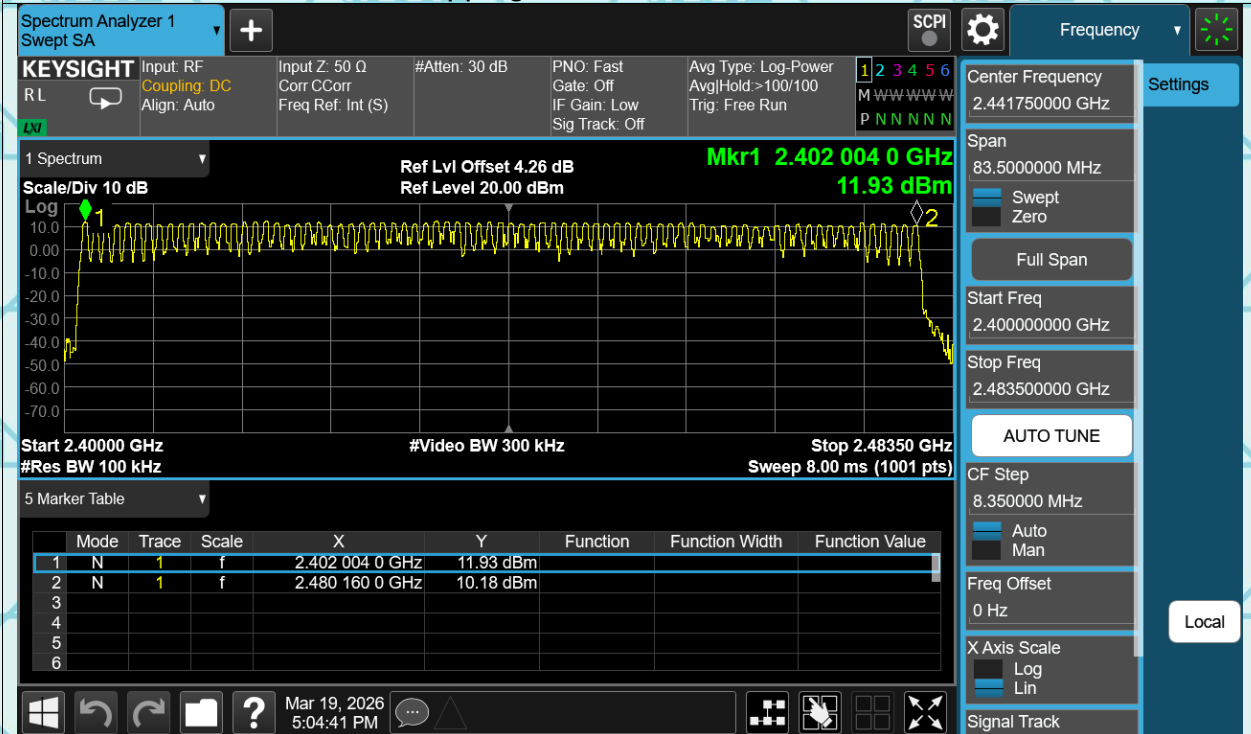
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

Test plots as follows:

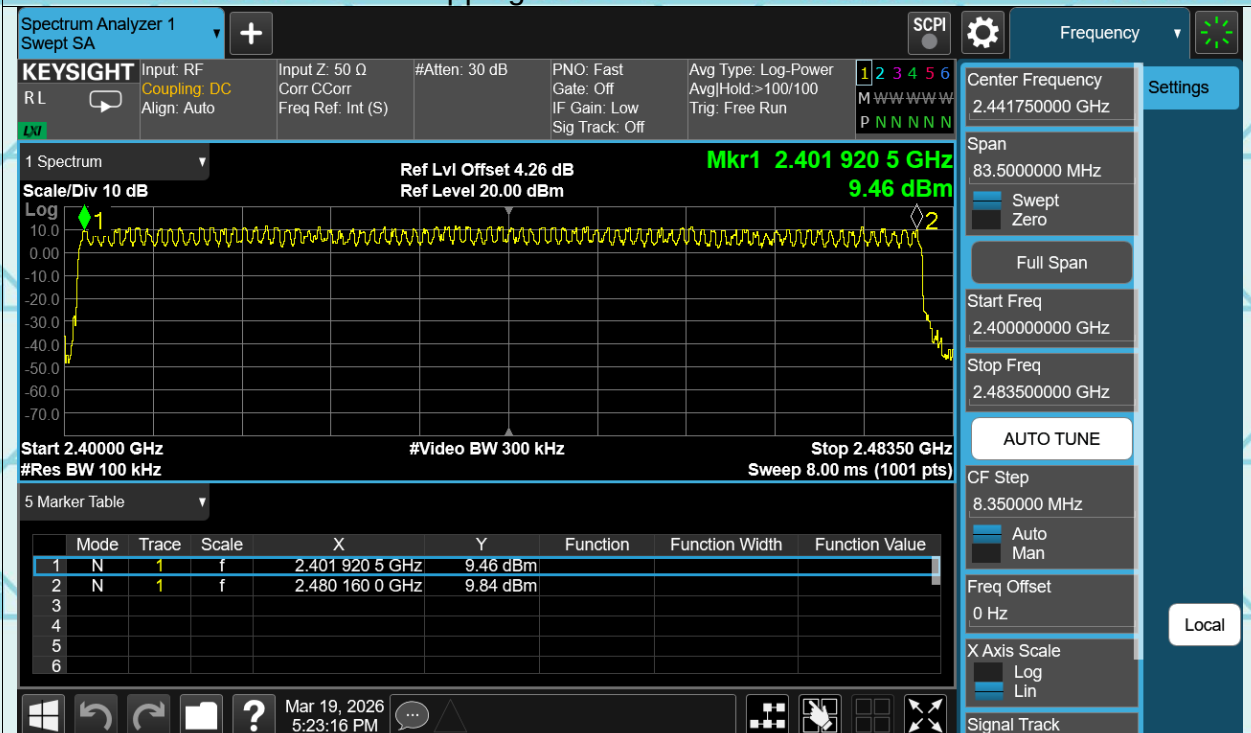
ANT1

Test Graphs

Hopping No. 1-DH5 2402MHz

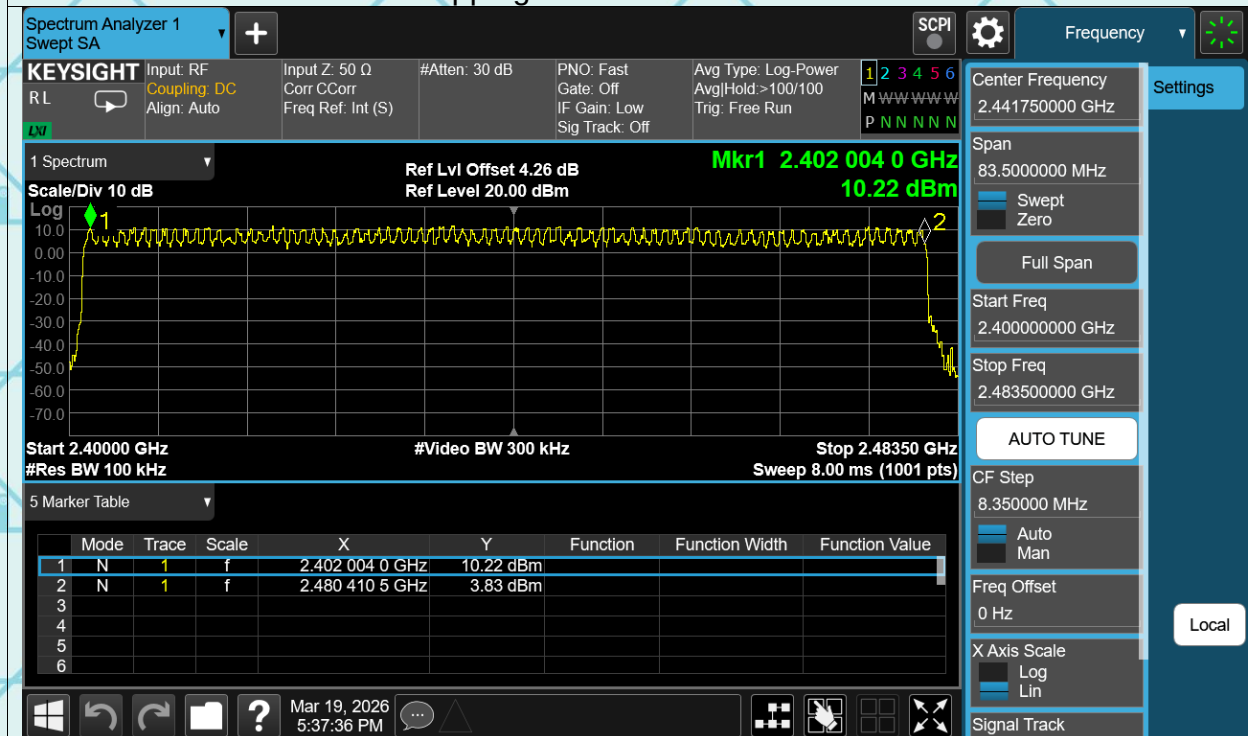


Hopping No. 2-DH5 2402MHz



Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

Hopping No. 3-DH5 2402MHz

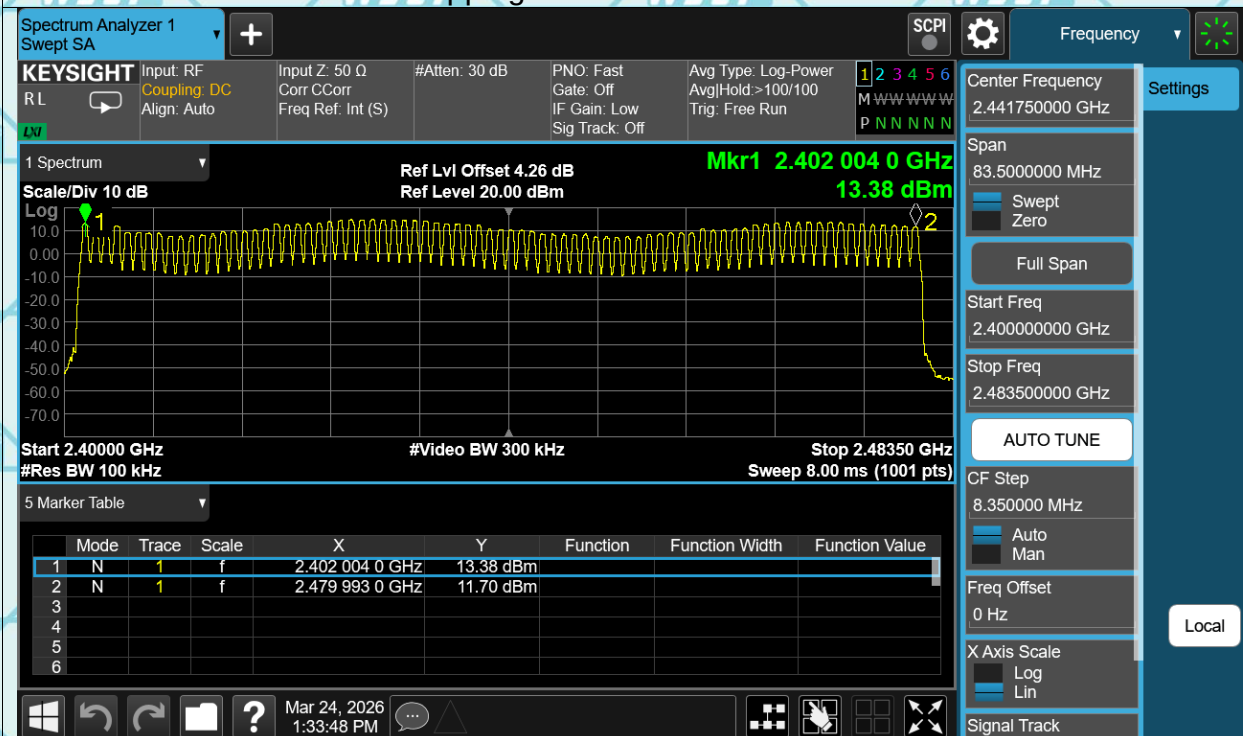


Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

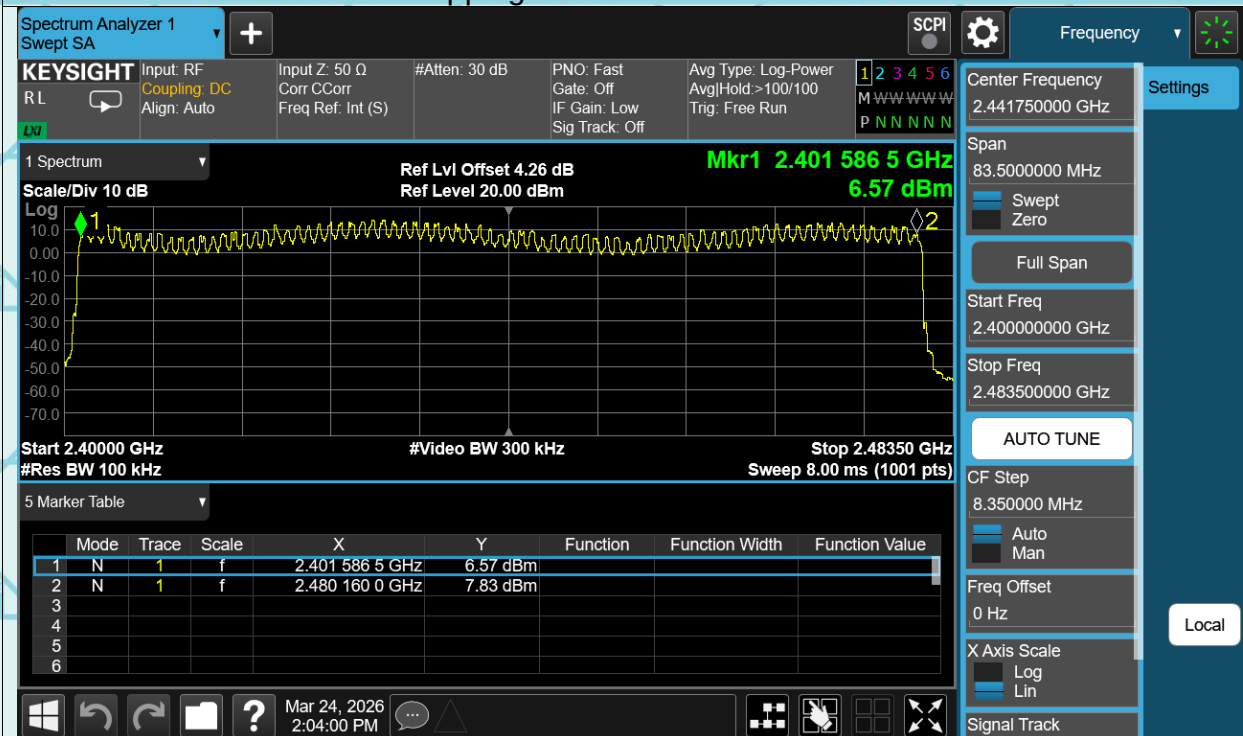
ANT2

Test Graphs

Hopping No. 1-DH5 2402MHz

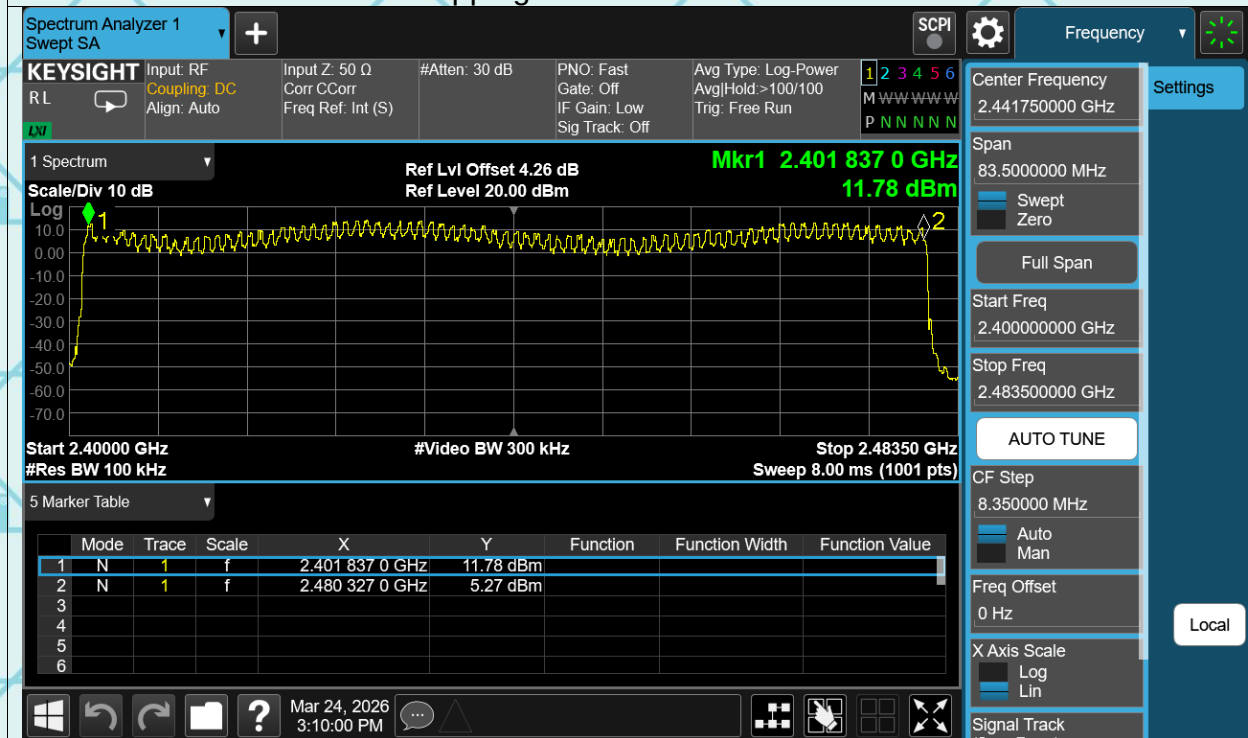


Hopping No. 2-DH5 2402MHz



Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

Hopping No. 3-DH5 2402MHz



6.7. Dwell Time

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2020
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2020 Measurement Guidelines. 2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Enable the EUT hopping function. 5. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel; VBW $\geq$ RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. 6. Measure and record the results in the test report.
Test Result:	PASS

6.7.2. Test Data

ANT1

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2402	0.374	117.81	315	31600	400	Pass
1-DH1	2441	0.374	118.932	318	31600	400	Pass
1-DH1	2480	0.375	118.125	315	31600	400	Pass
1-DH3	2402	1.63	234.72	144	31600	400	Pass
1-DH3	2441	1.631	267.484	164	31600	400	Pass
1-DH3	2480	1.63	270.58	166	31600	400	Pass
1-DH5	2402	2.879	293.658	102	31600	400	Pass
1-DH5	2441	2.879	313.811	109	31600	400	Pass
1-DH5	2480	2.877	284.823	99	31600	400	Pass

ANT2

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2402	0.375	118.5	316	31600	400	Pass
1-DH1	2441	0.373	117.868	316	31600	400	Pass
1-DH1	2480	0.373	117.122	314	31600	400	Pass
1-DH3	2402	1.631	234.864	144	31600	400	Pass
1-DH3	2441	1.63	268.95	165	31600	400	Pass
1-DH3	2480	1.629	270.414	166	31600	400	Pass
1-DH5	2402	2.879	296.537	103	31600	400	Pass
1-DH5	2441	2.879	310.932	108	31600	400	Pass
1-DH5	2480	2.878	284.922	99	31600	400	Pass

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

For DH1, With channel hopping rate $(1600 / 2 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 2 / 79) \times (0.4 \times 79) = 320$ hops

For DH3, With channel hopping rate $(1600 / 4 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 4 / 79) \times (0.4 \times 79) = 160$ hops

For DH5, With channel hopping rate $(1600 / 6 / 79)$ in Occupancy Time Limit (0.4×79) (s), Hops Over Occupancy Time comes to $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$ hops

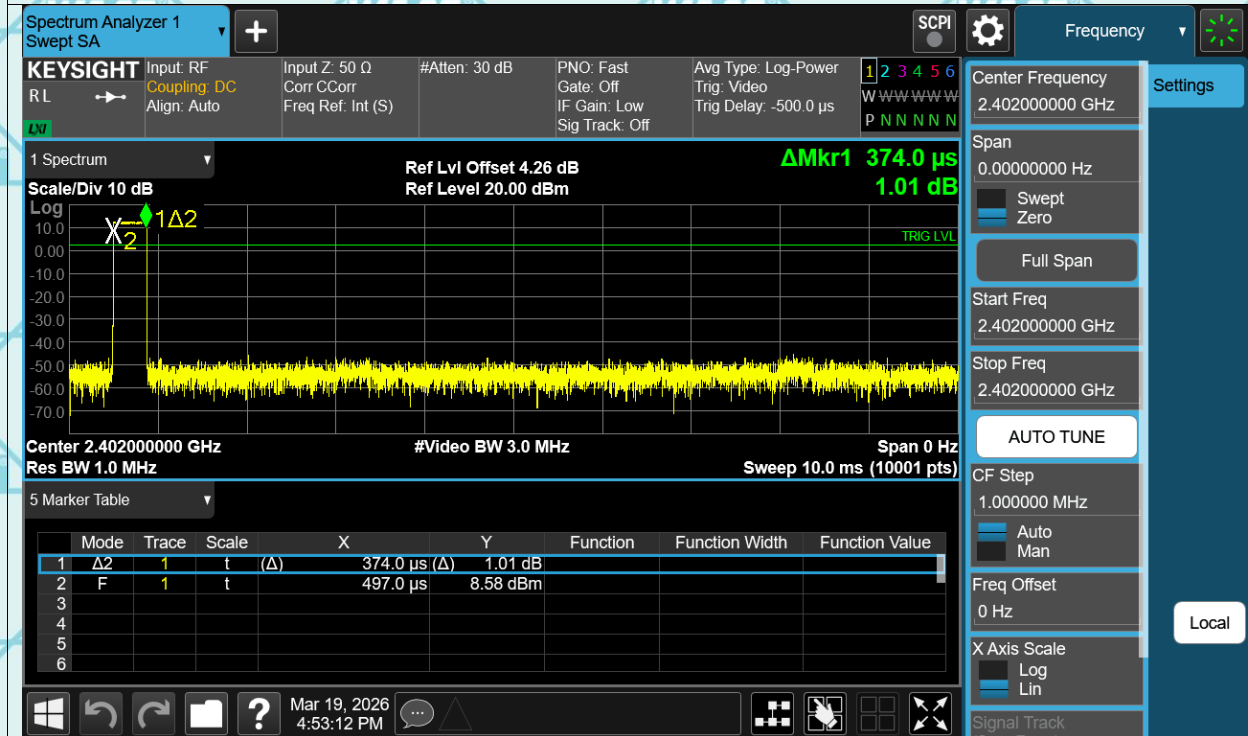
2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

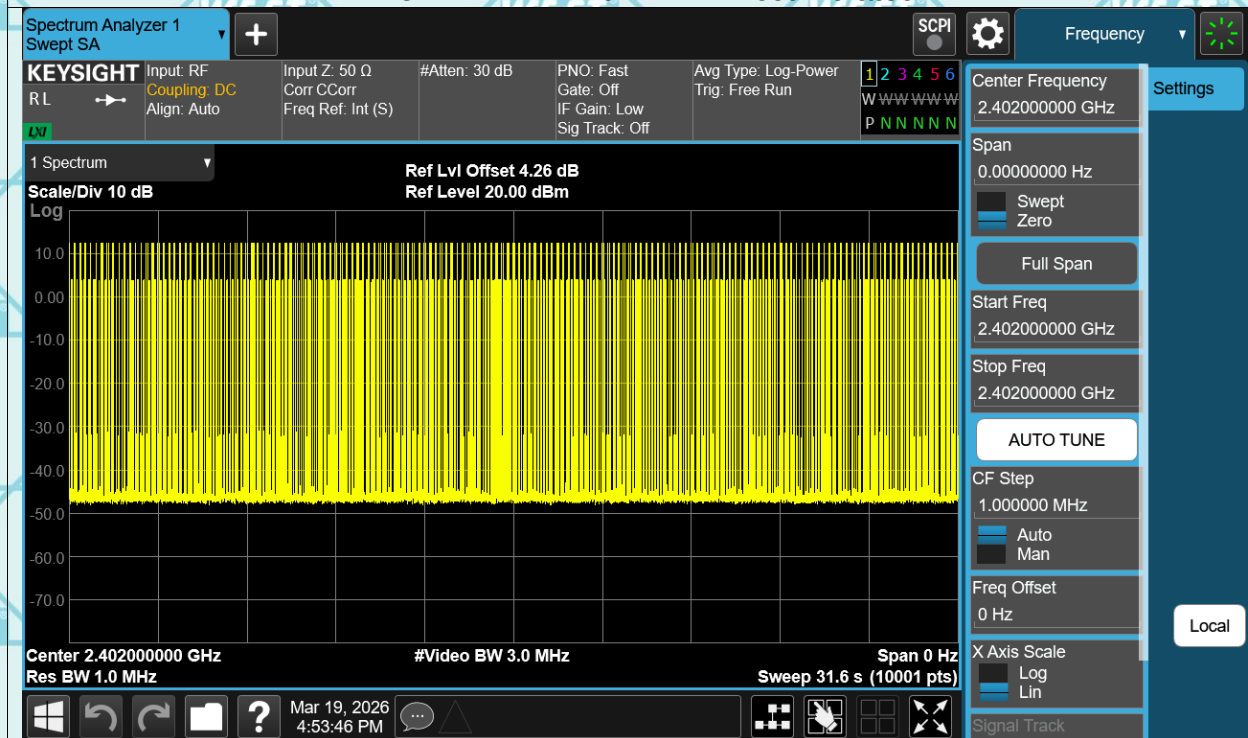
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026
ANT1

Test Graphs

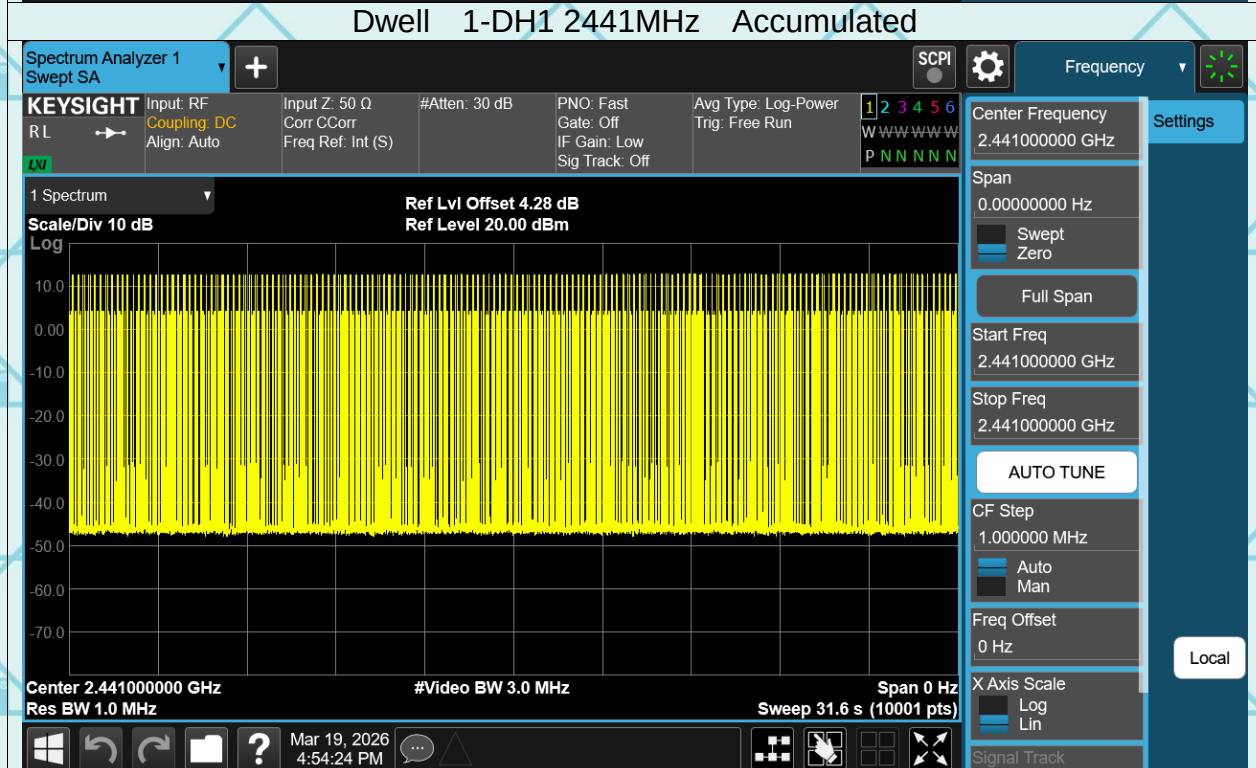
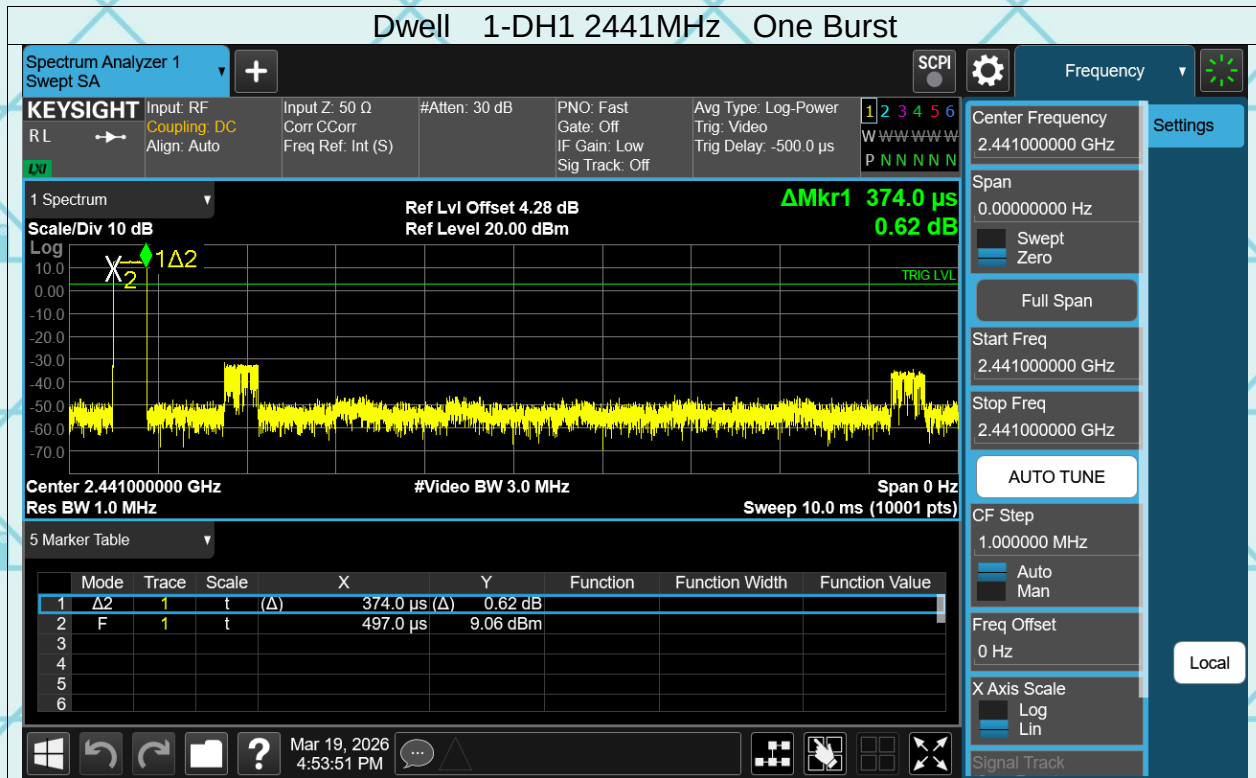
Dwell 1-DH1 2402MHz One Burst



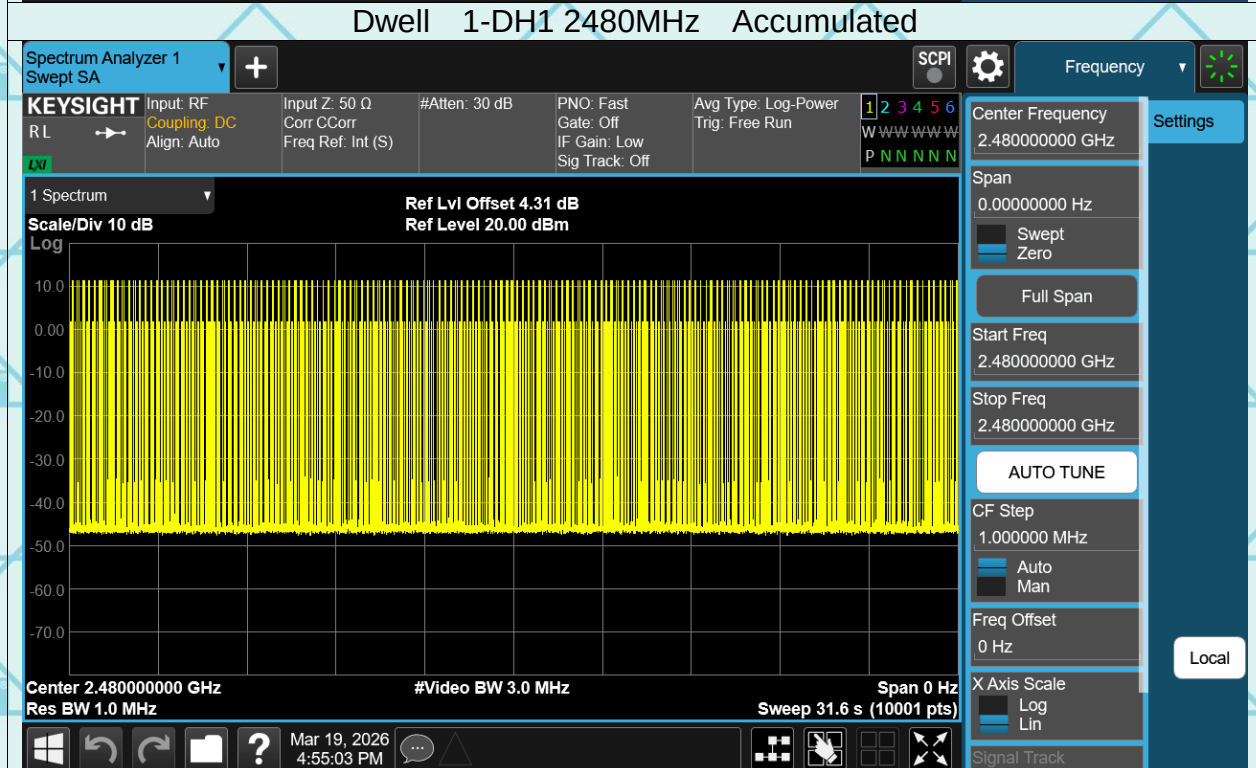
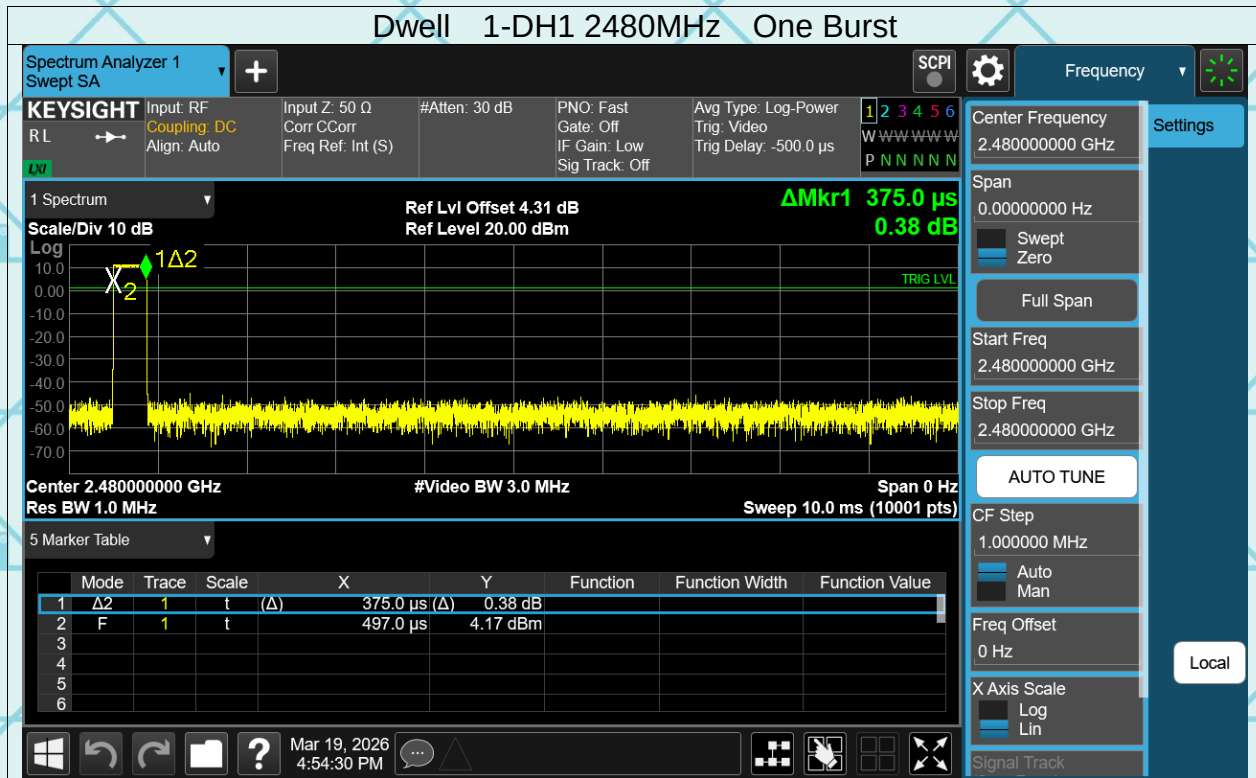
Dwell 1-DH1 2402MHz Accumulated

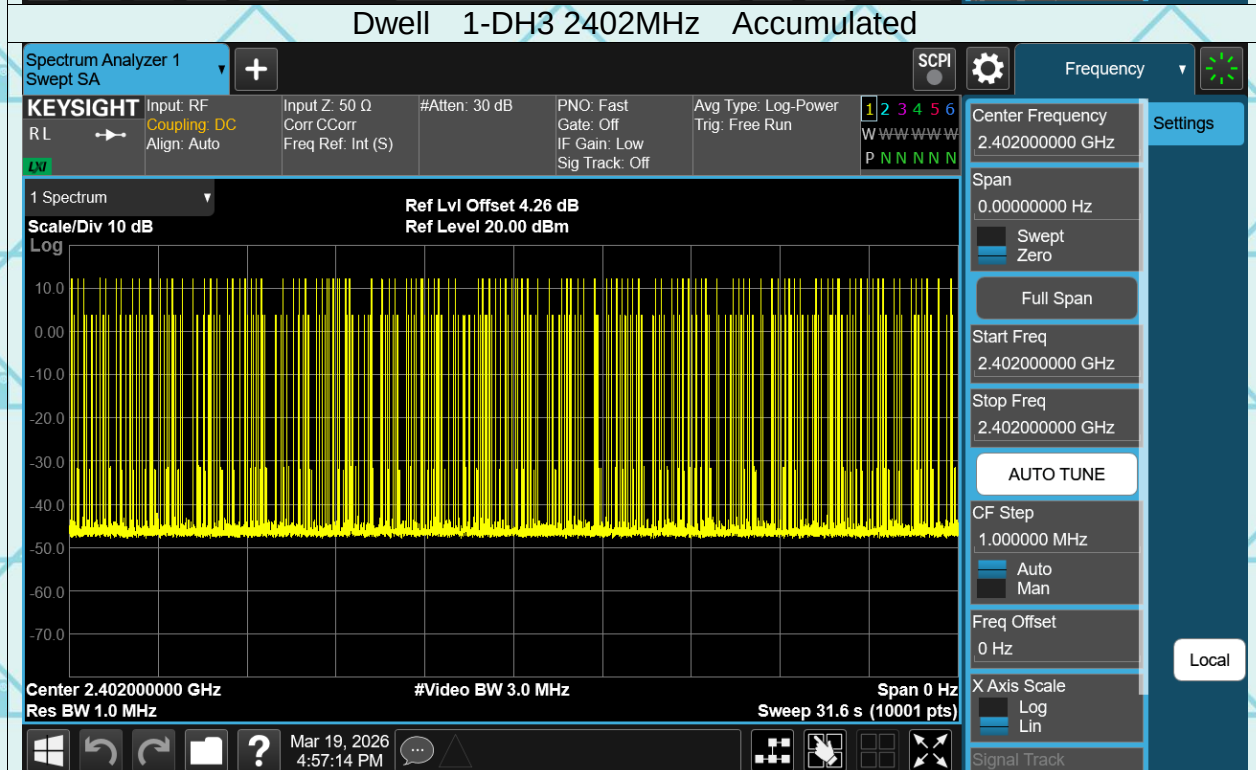
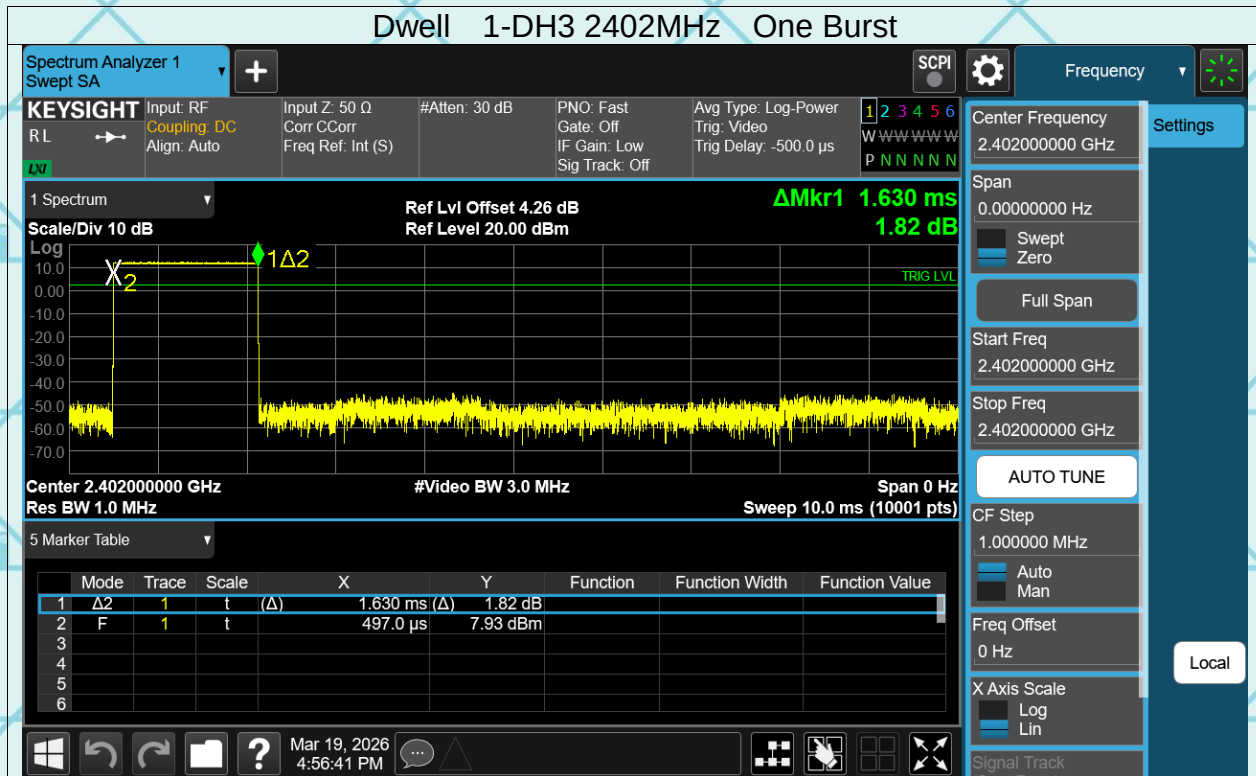


Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

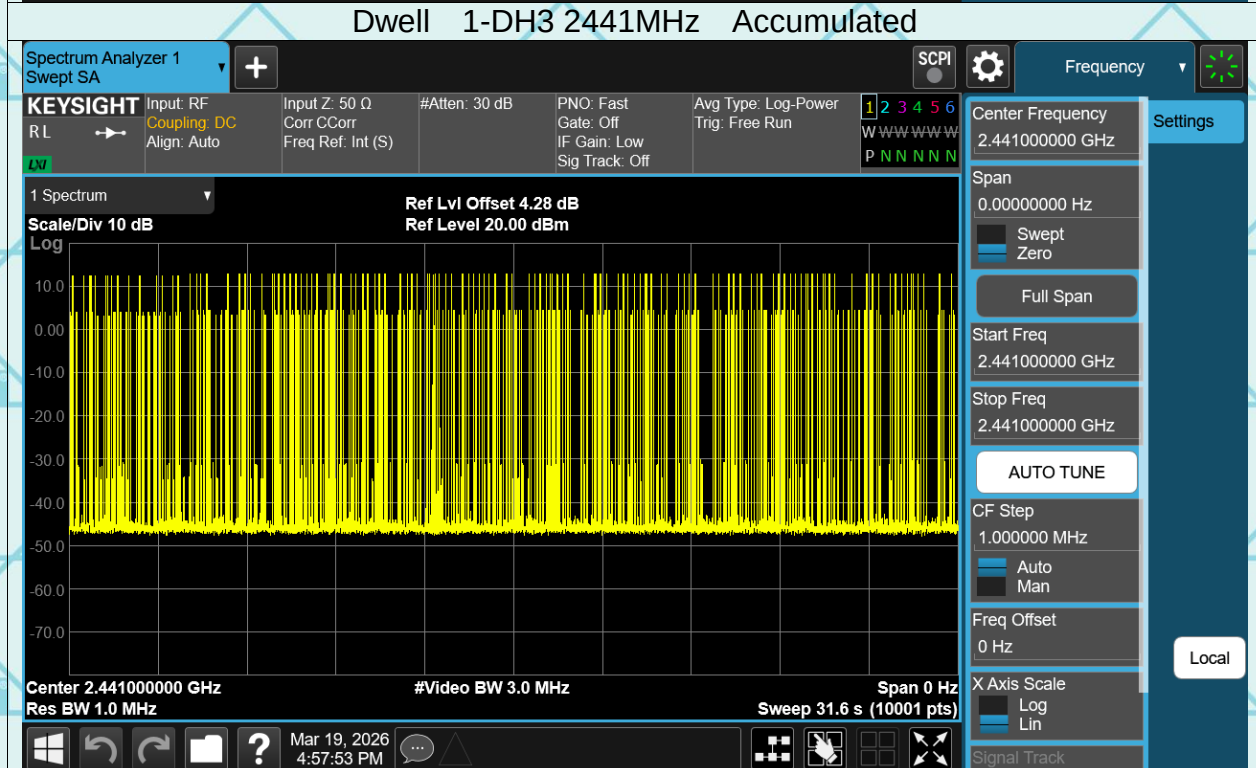
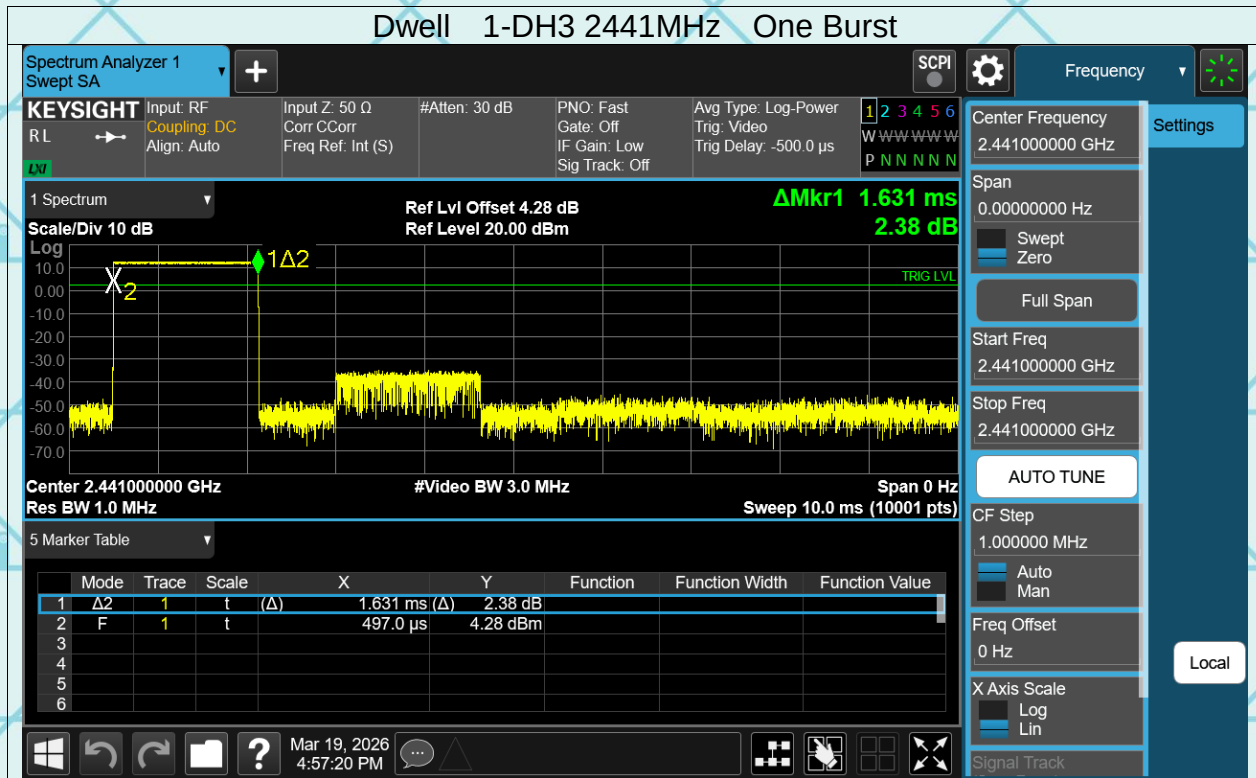


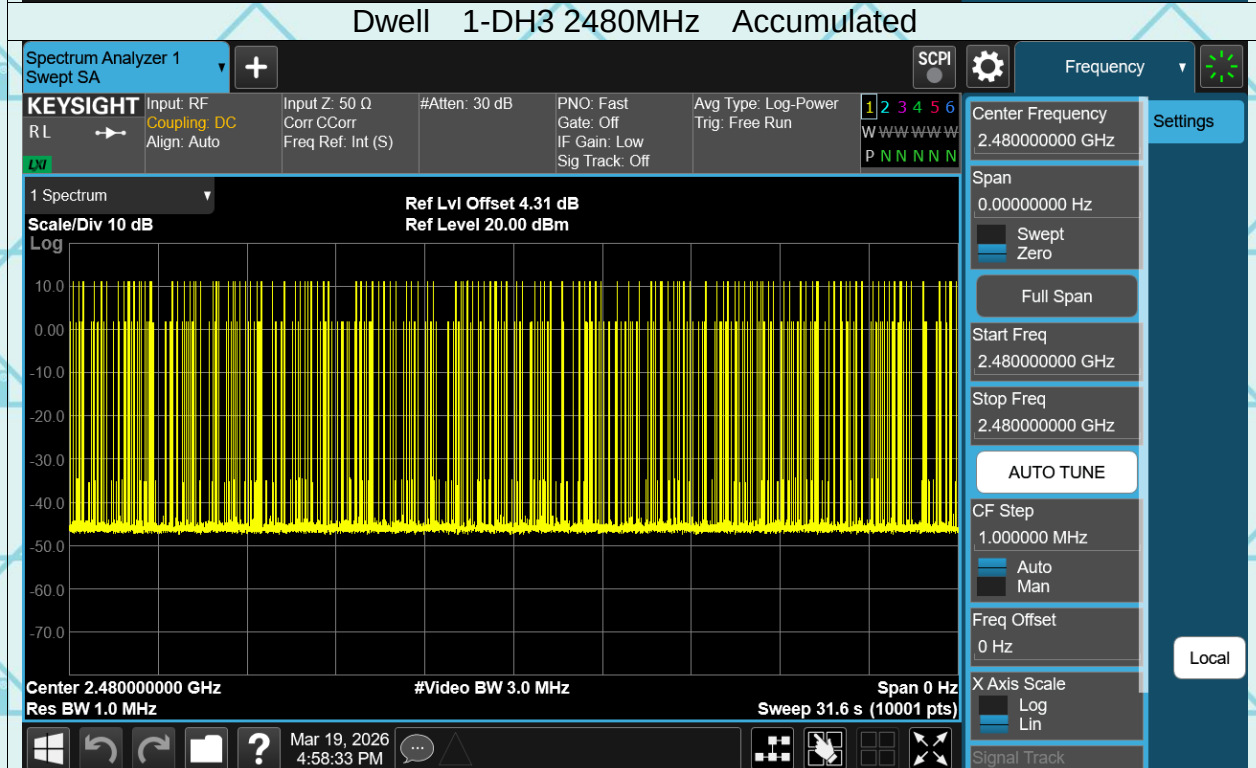
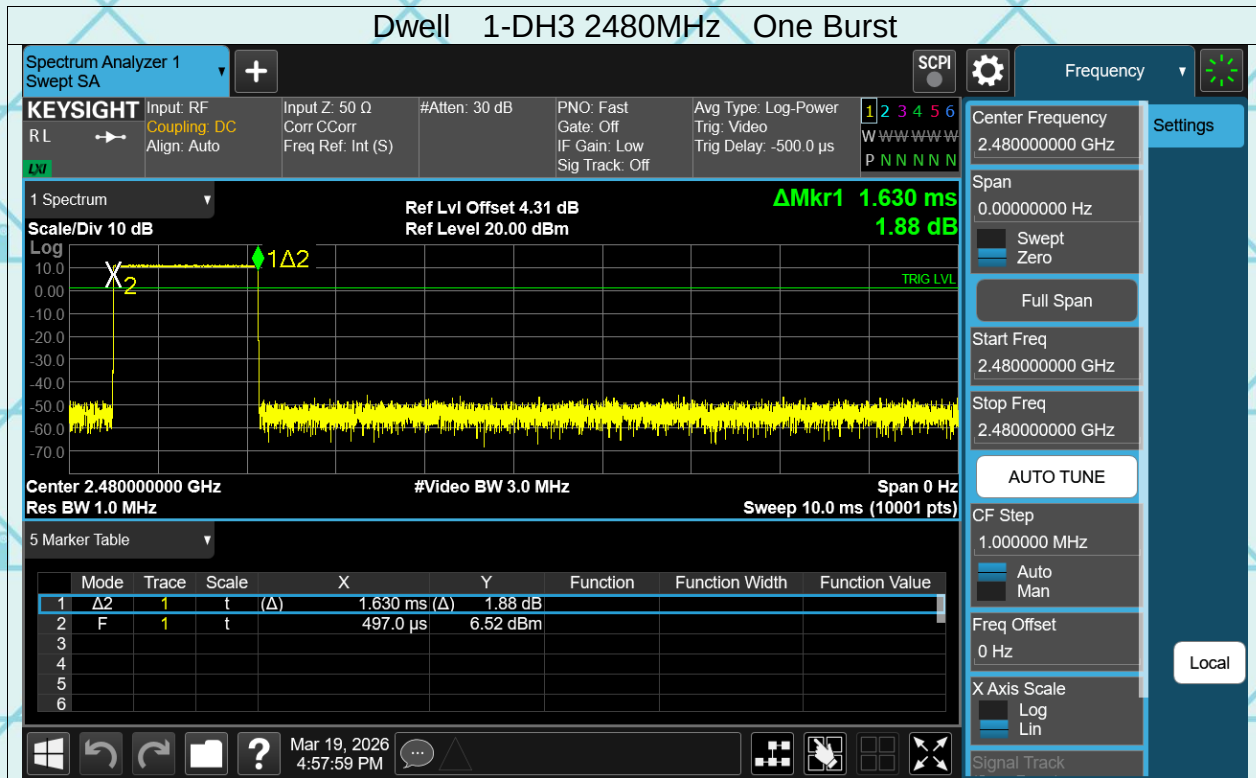
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026

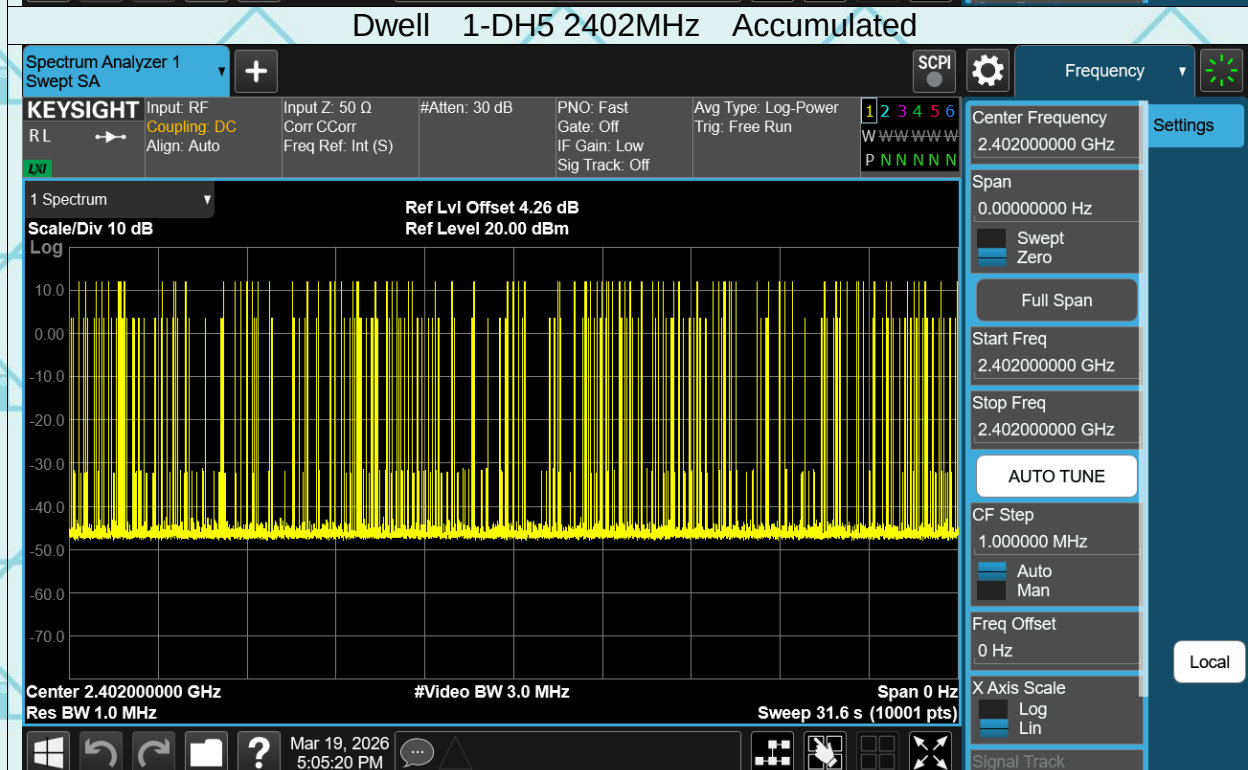
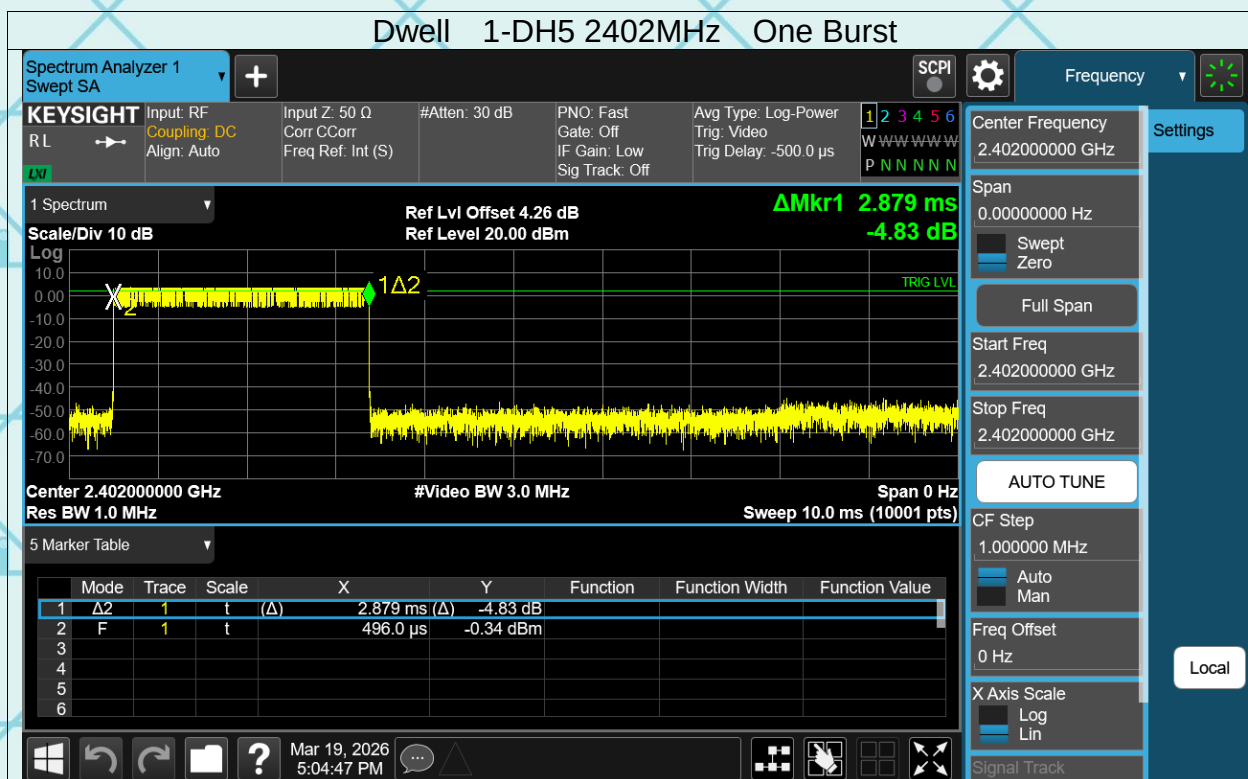


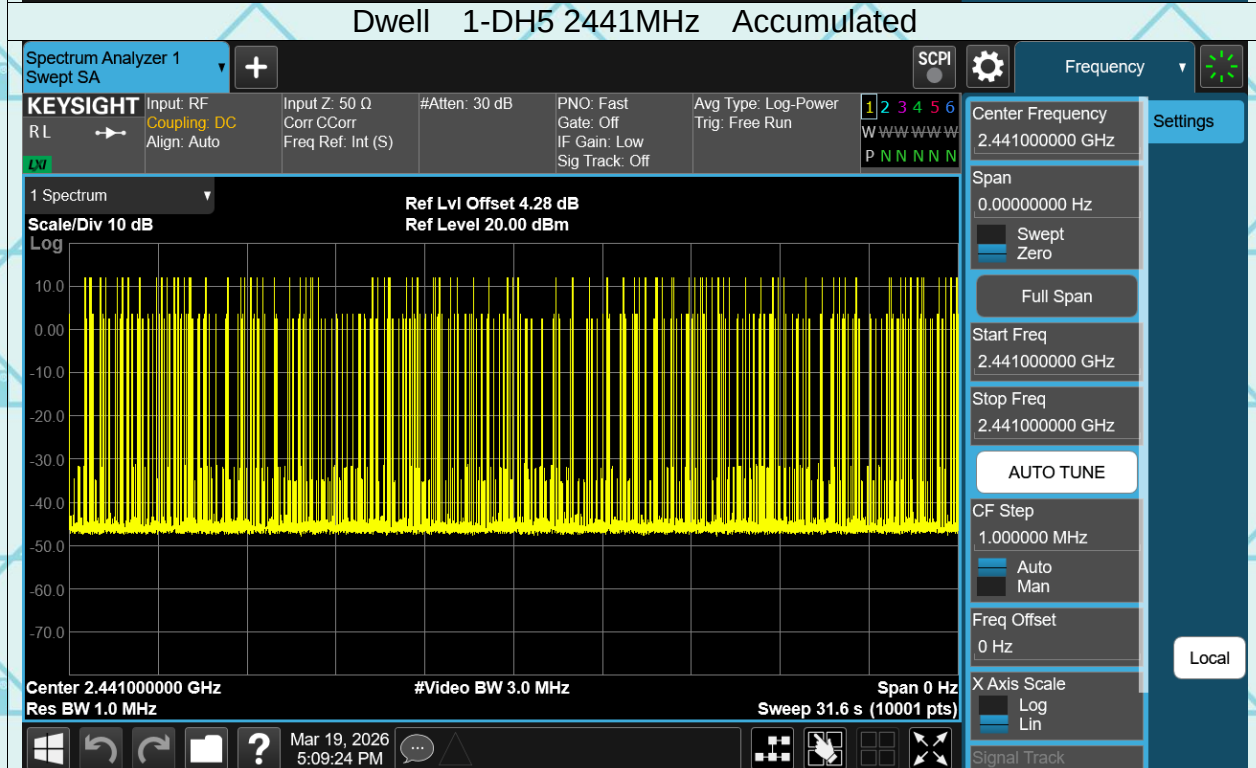
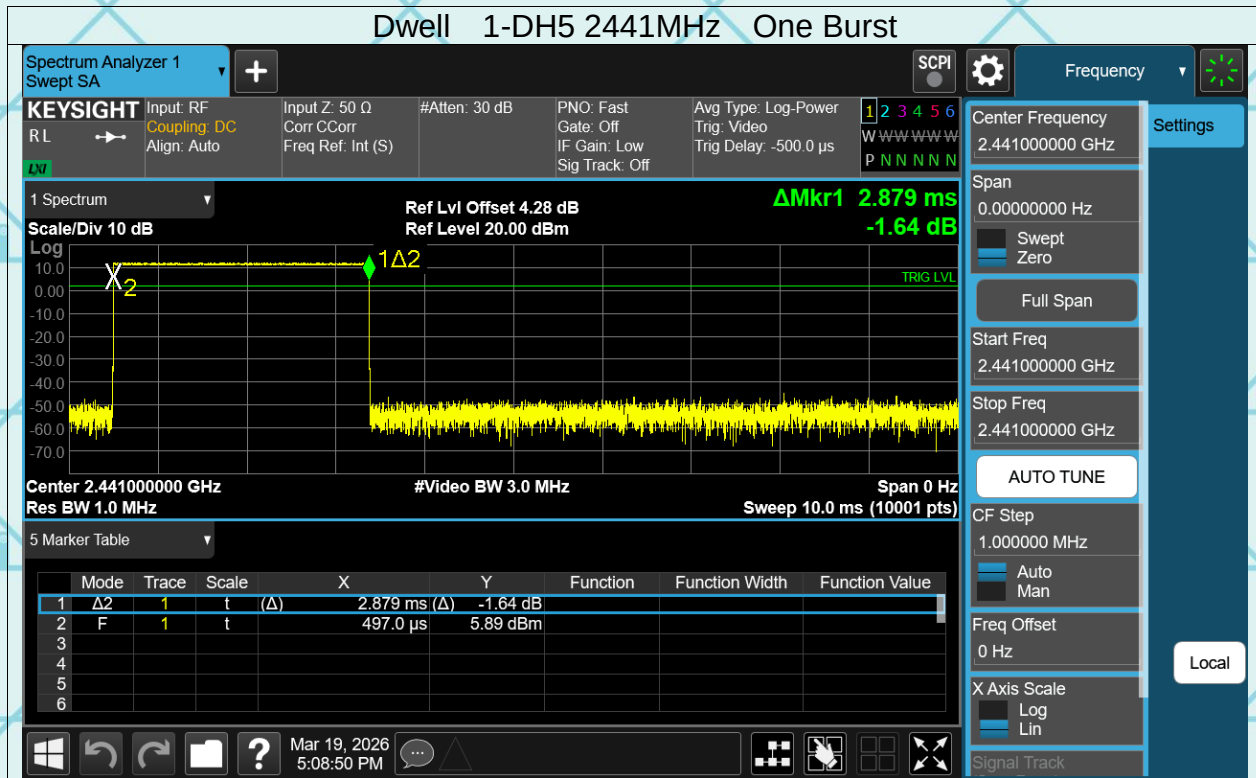


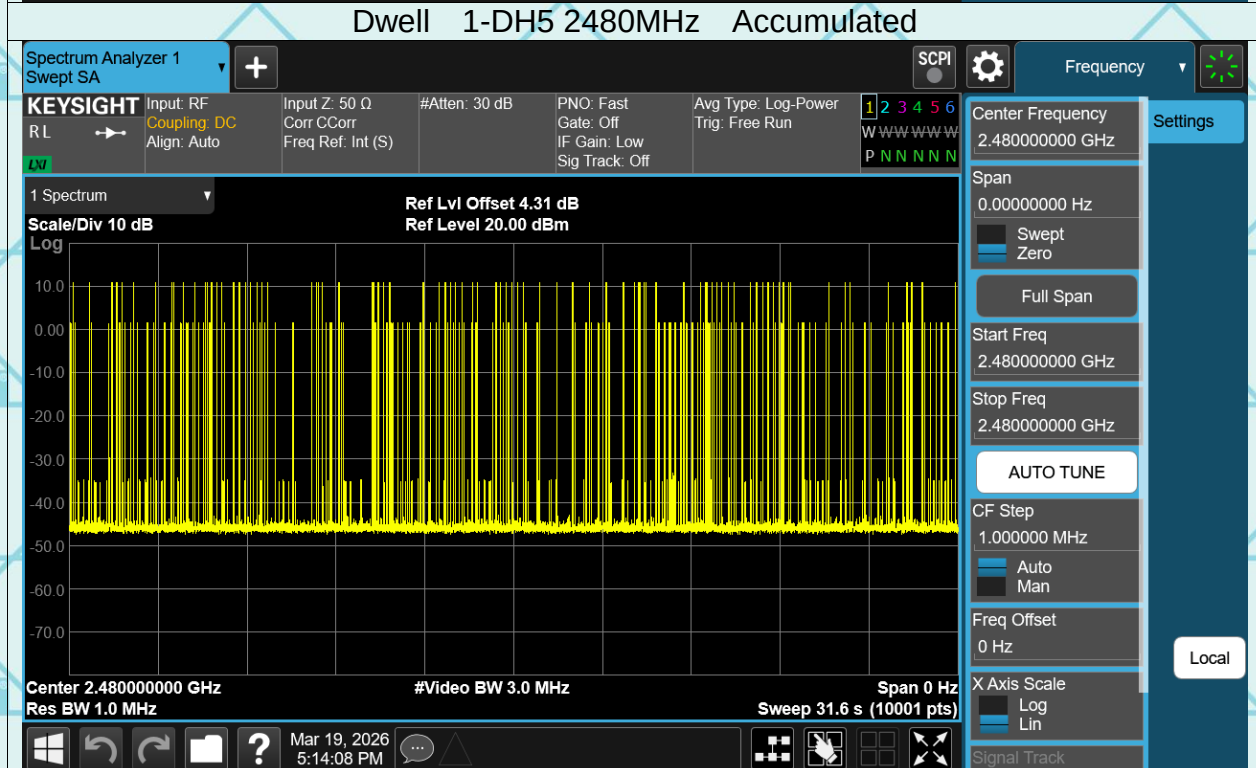
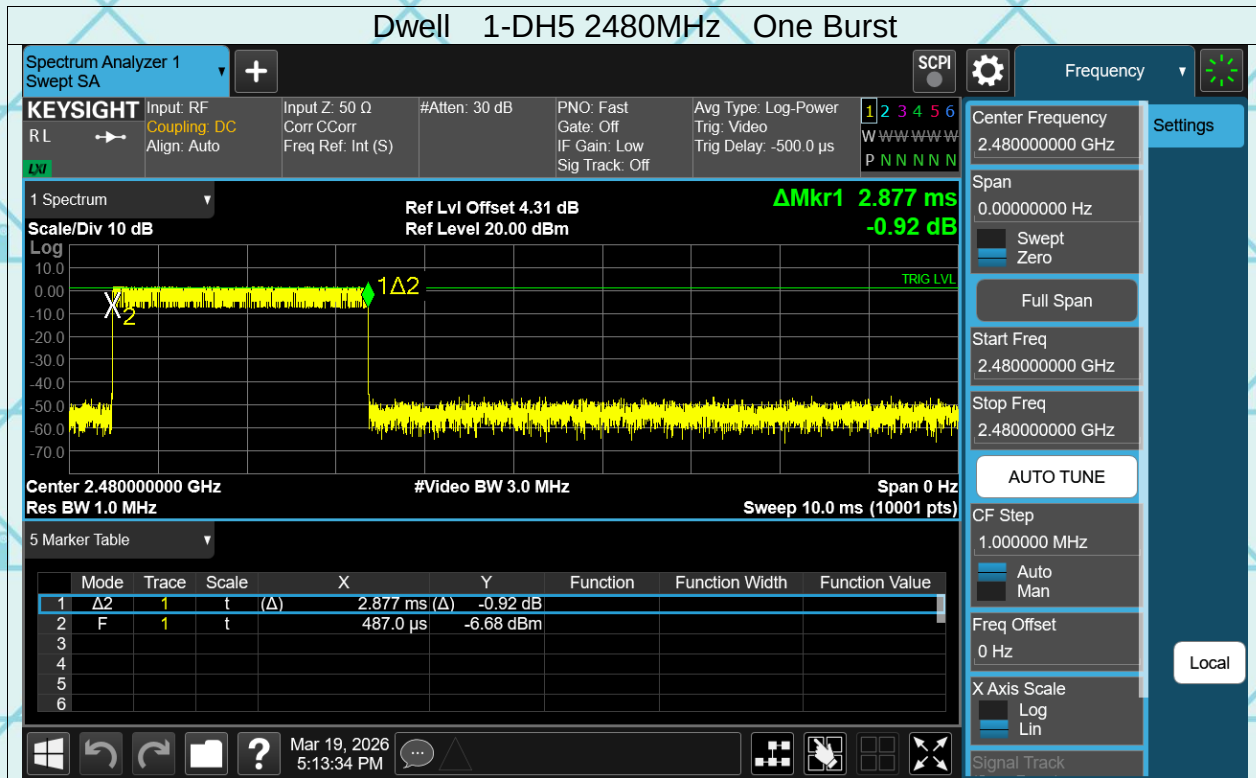
Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026







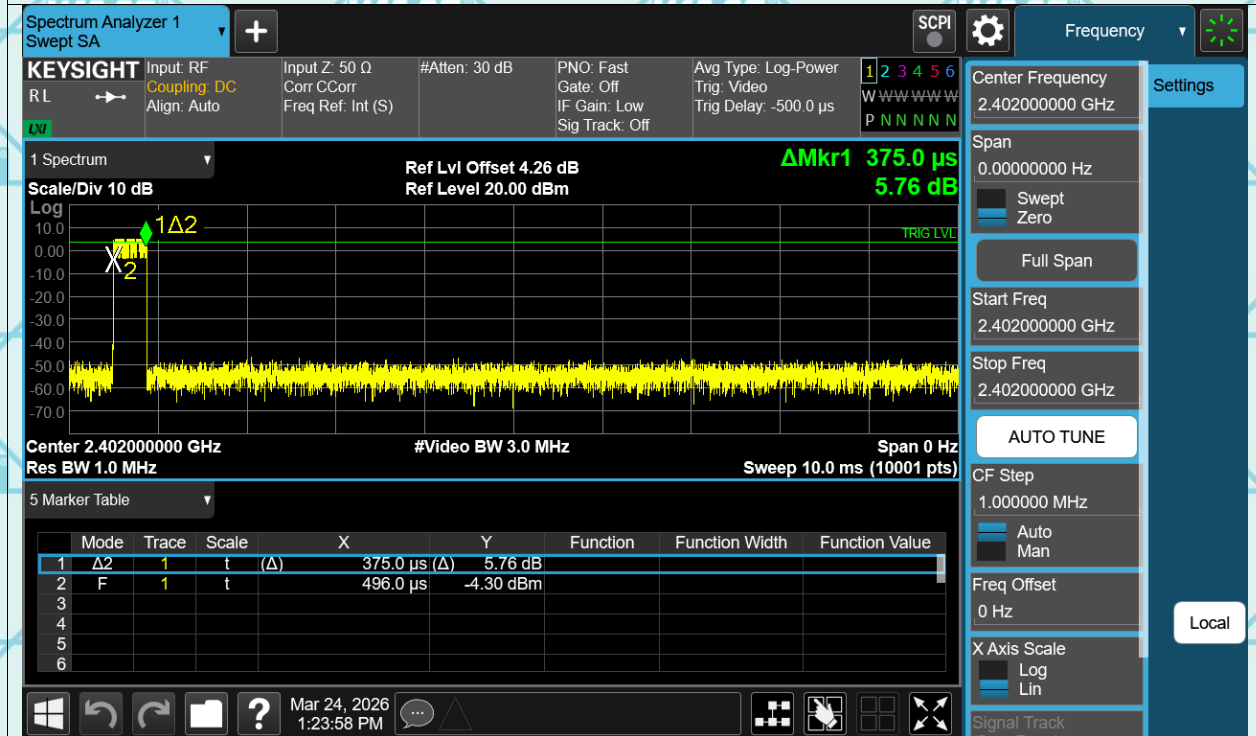




Report No.: WSCT-ANAB-R&E260200024A-BT Issued Date: 09 April 2026
ANT2

Test Graphs

Dwell 1-DH1 2402MHz One Burst



Dwell 1-DH1 2402MHz Accumulated

