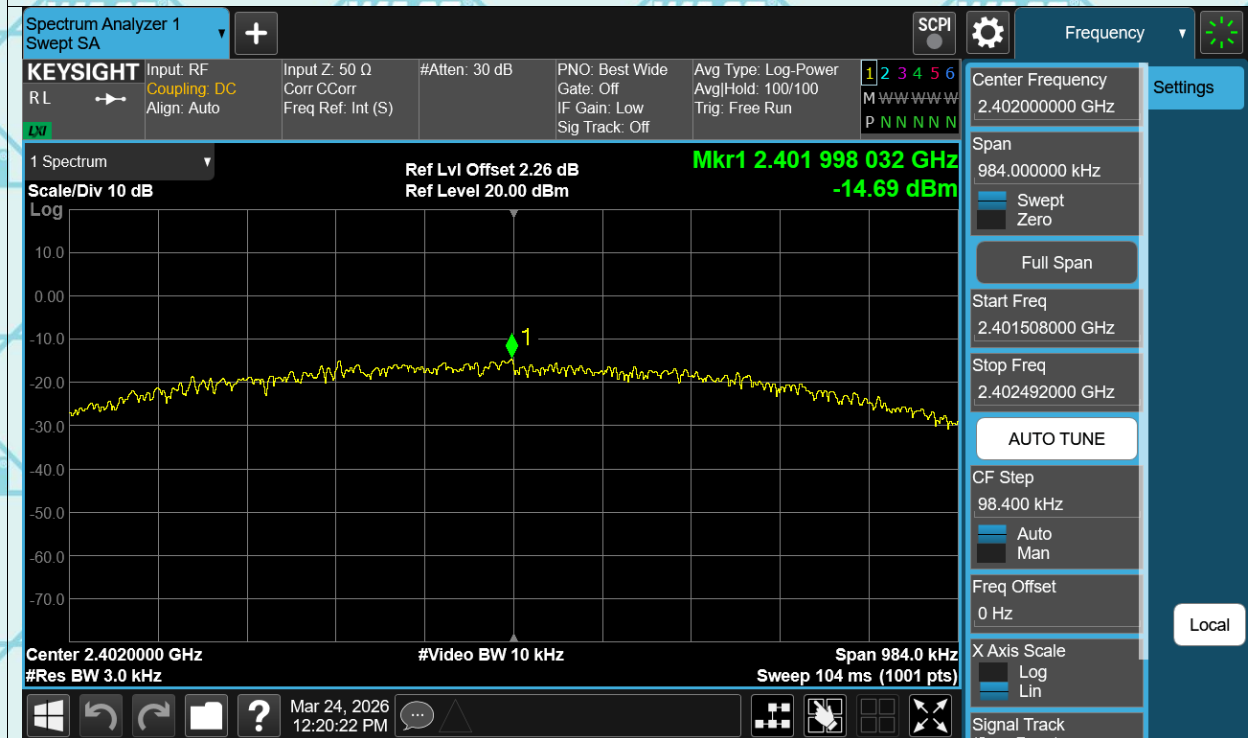


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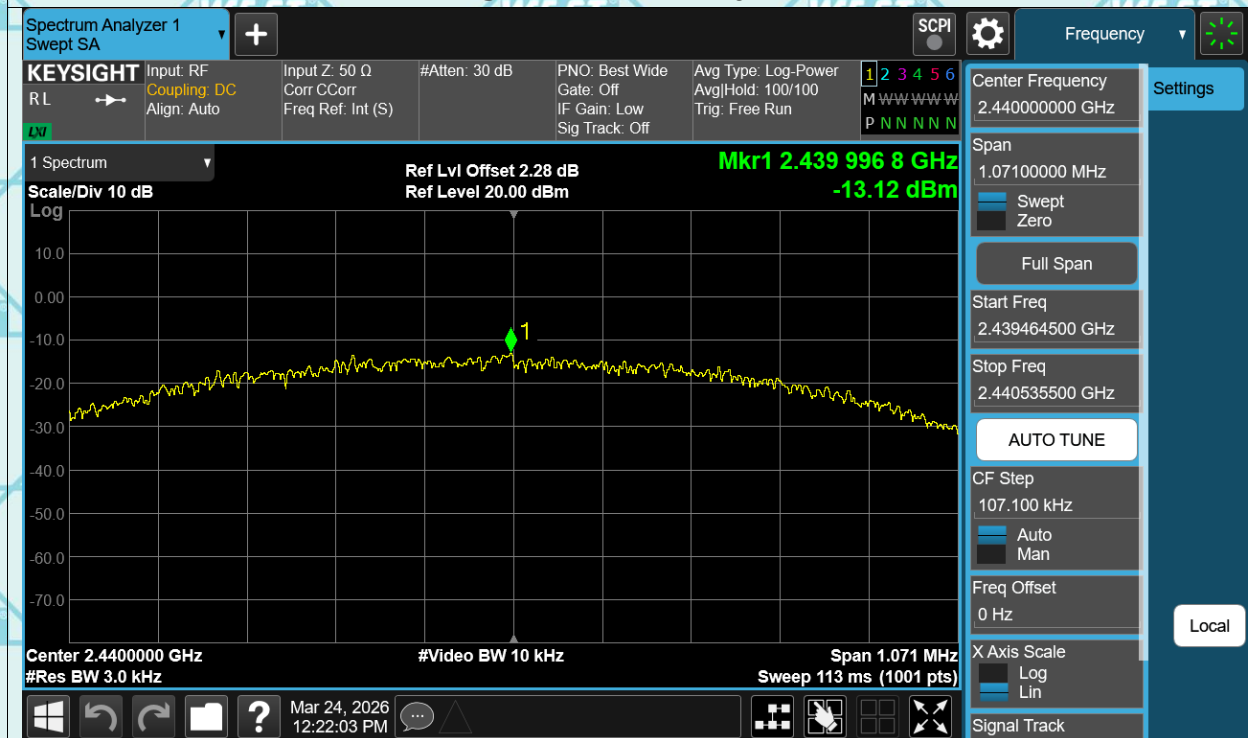
ANT2

Test Graphs

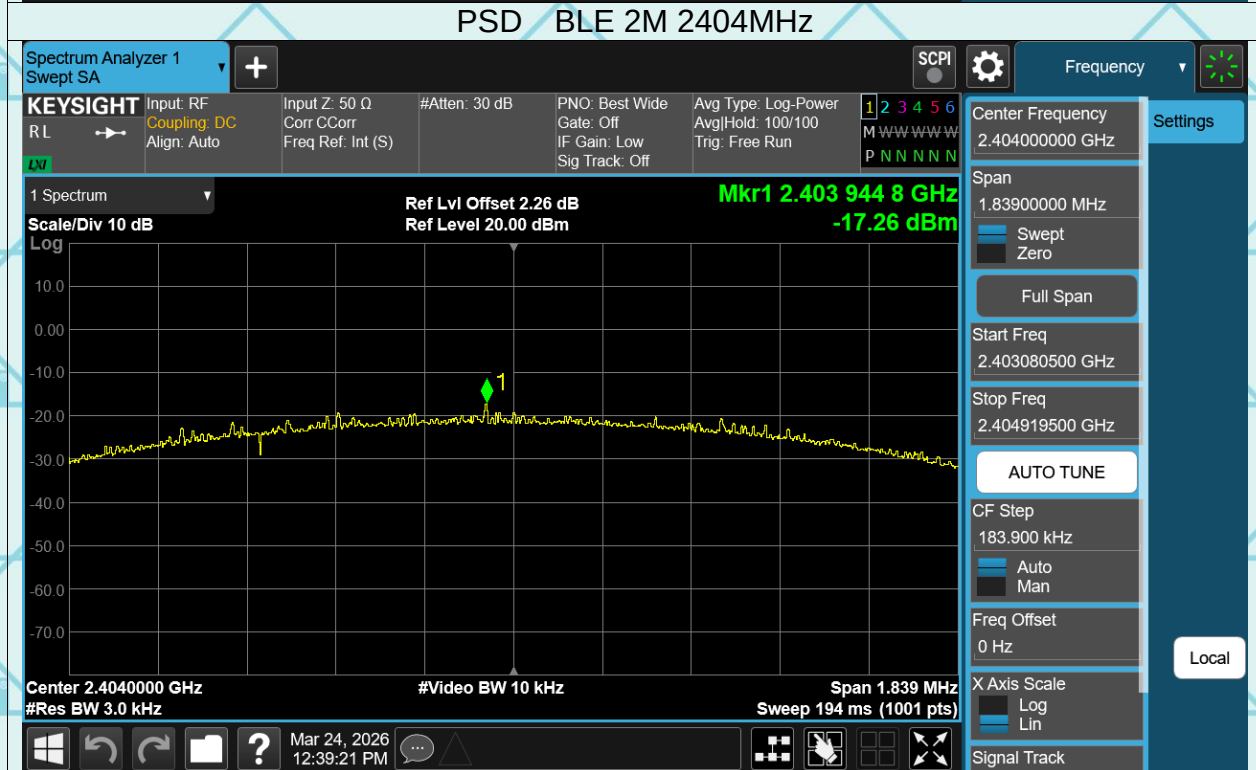
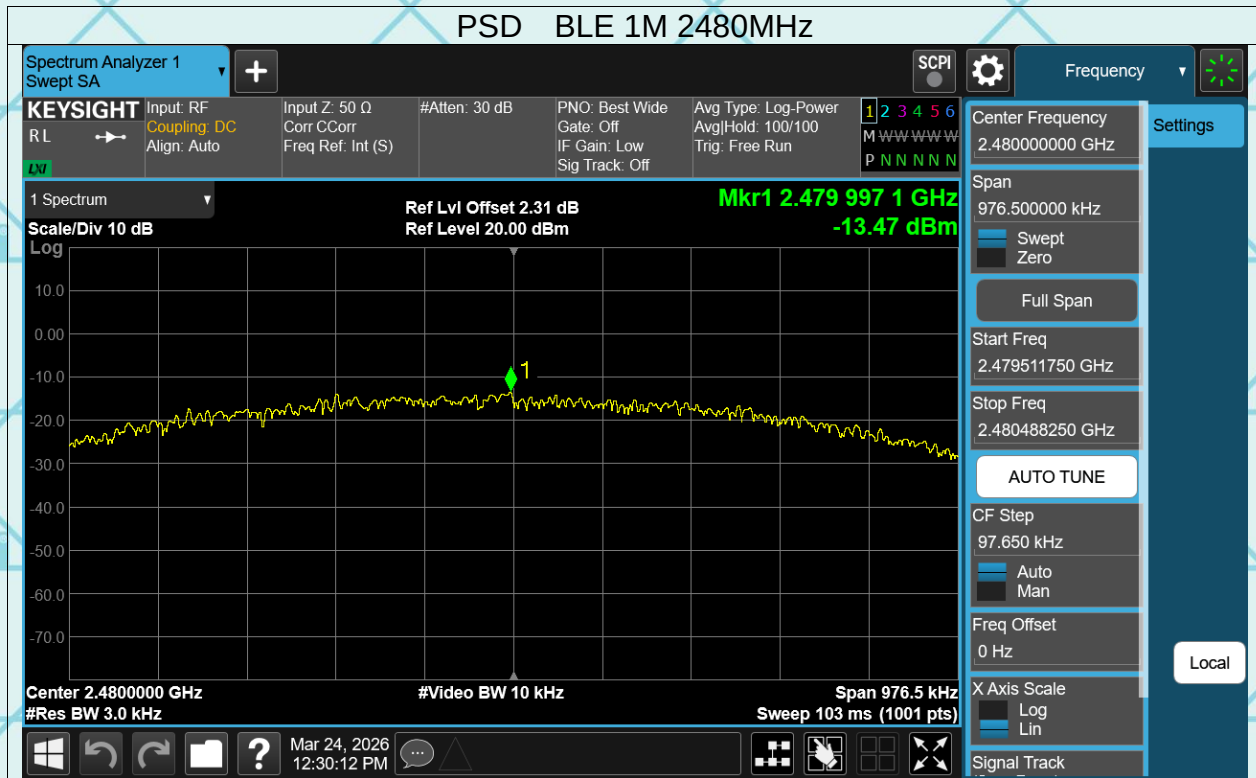
PSD BLE 1M 2402MHz



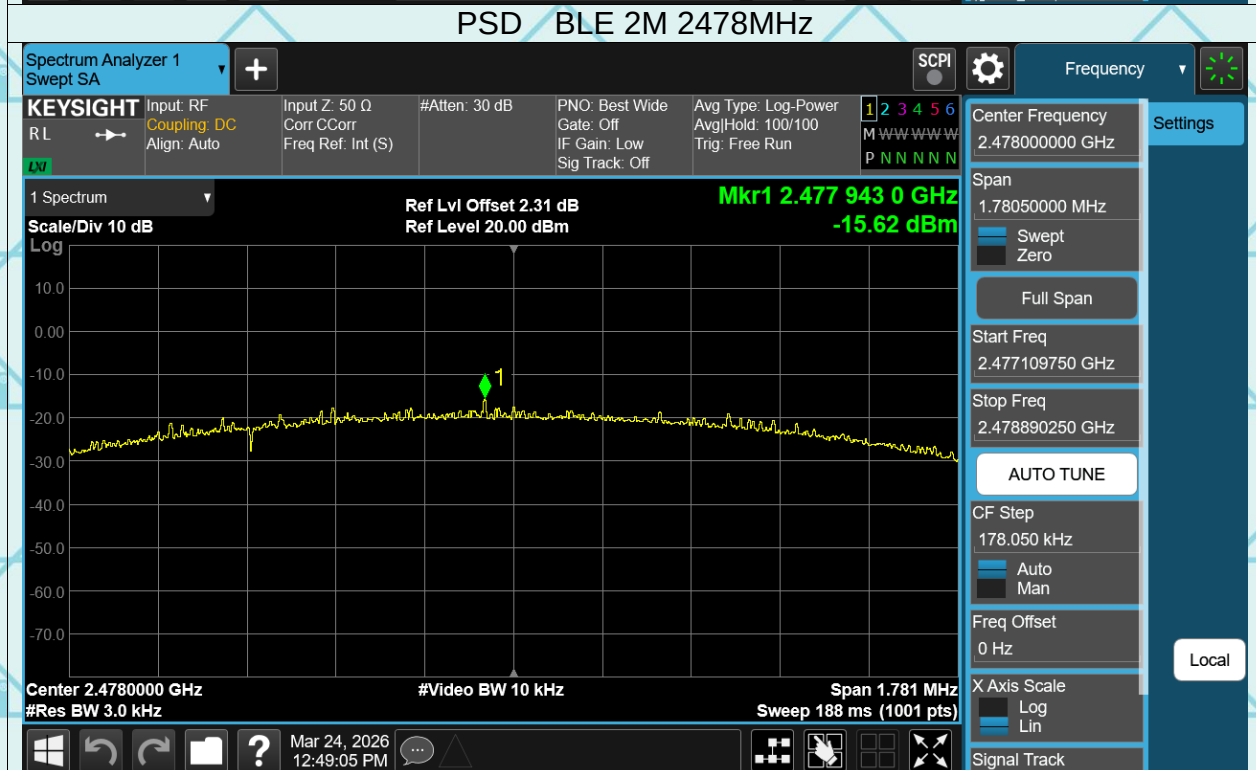
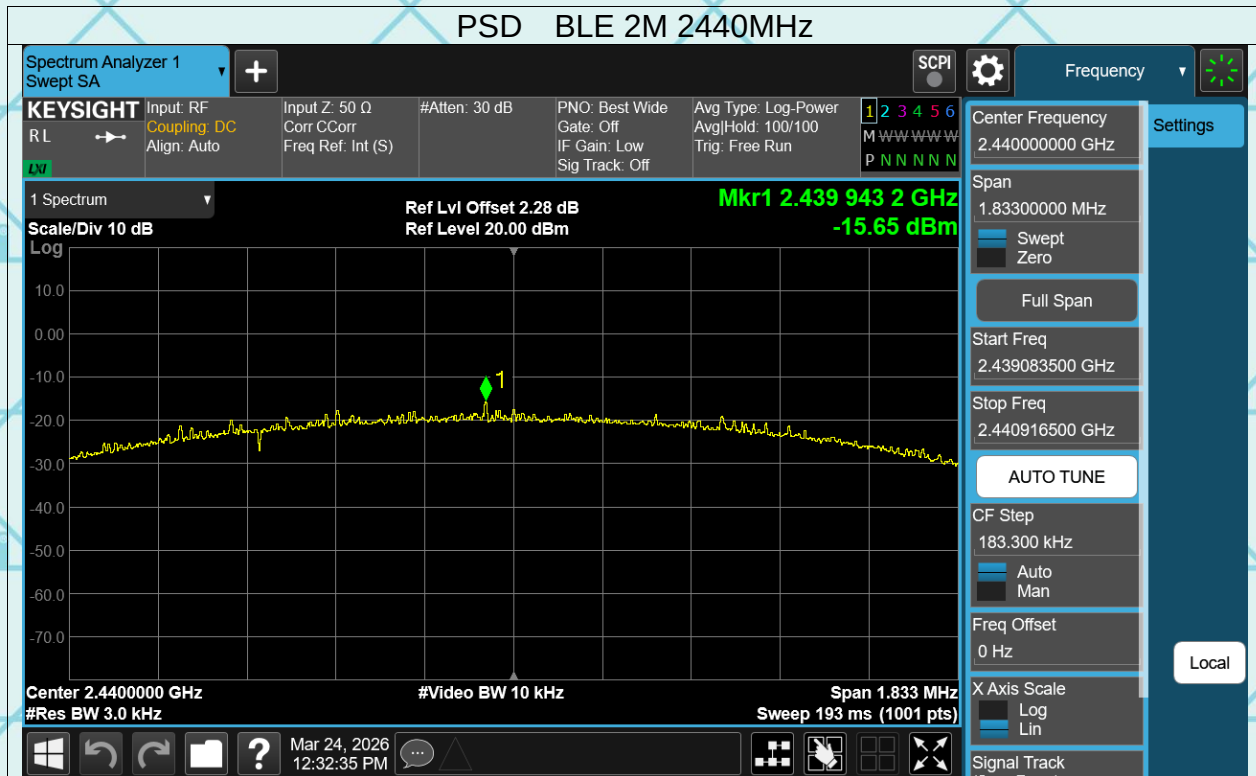
PSD BLE 1M 2440MHz



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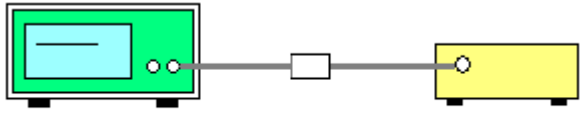


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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	KDB558074
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).
Test Setup:	 Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	1. 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. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). 4. Measure and record the results in the test report. 5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

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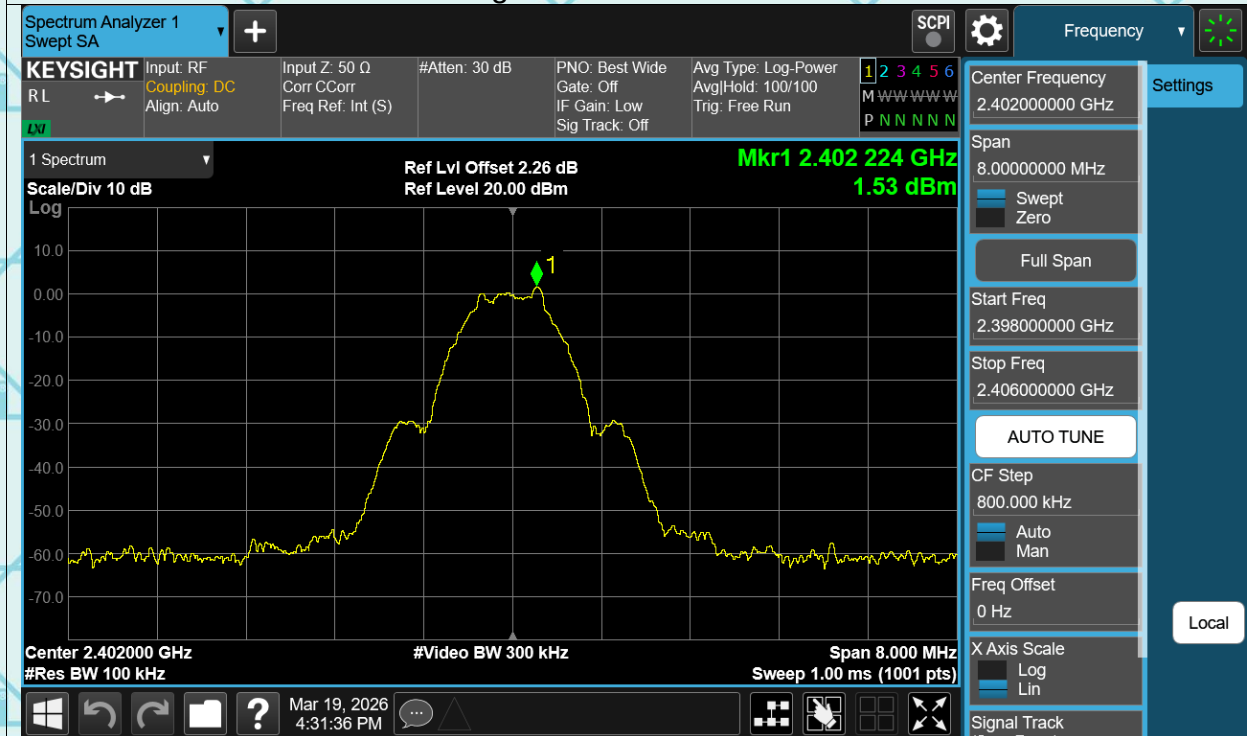
Test Data

ANT1

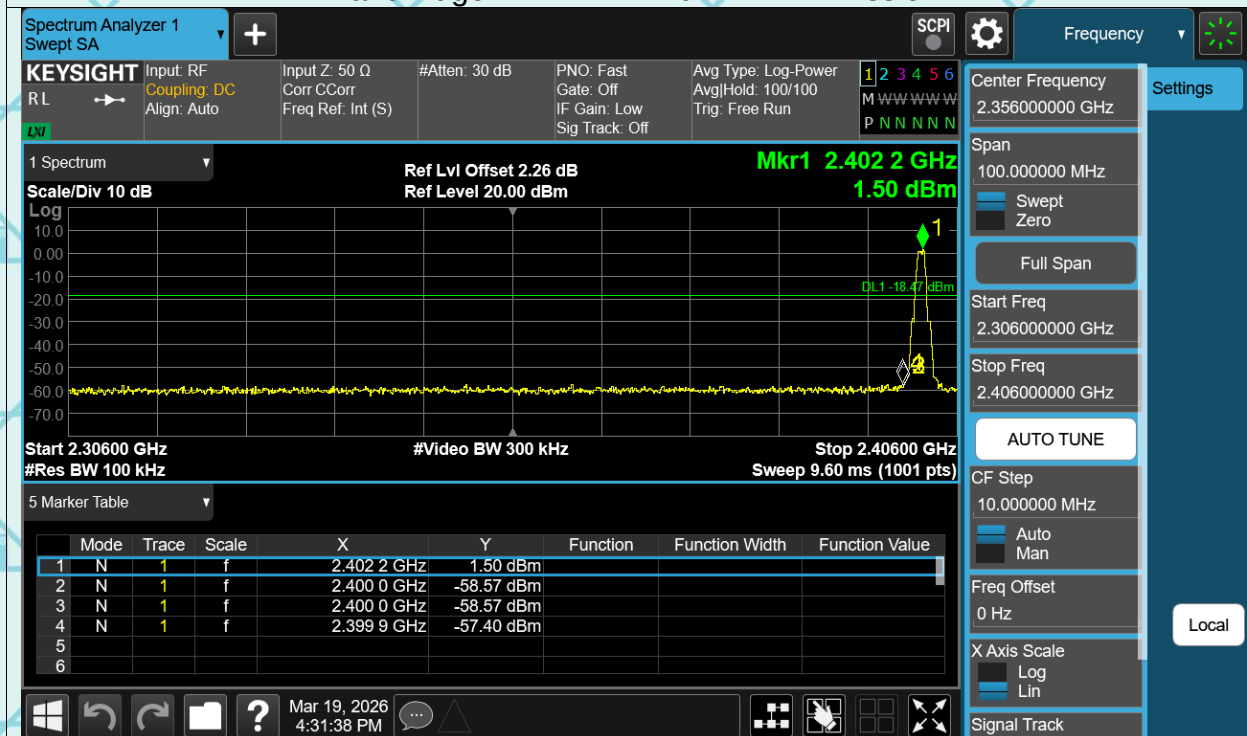
Band Edge

Test Graphs

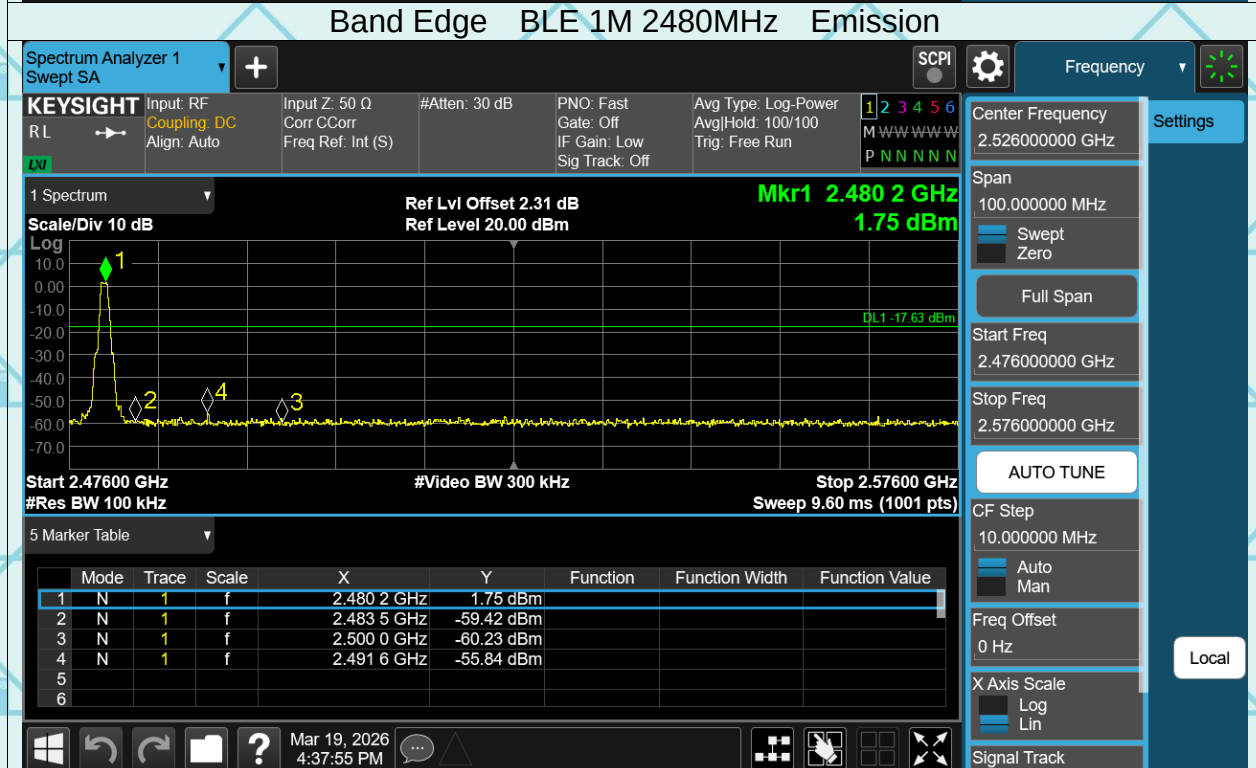
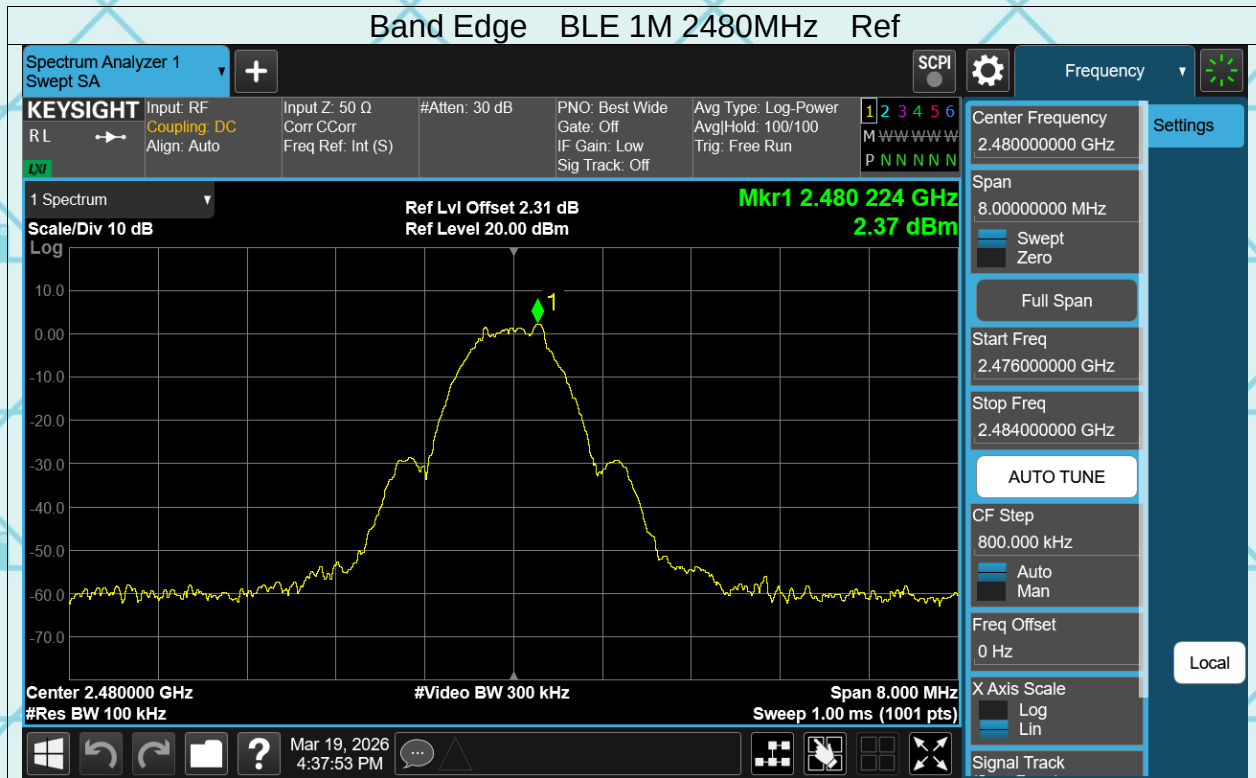
Band Edge BLE 1M 2402MHz Ref

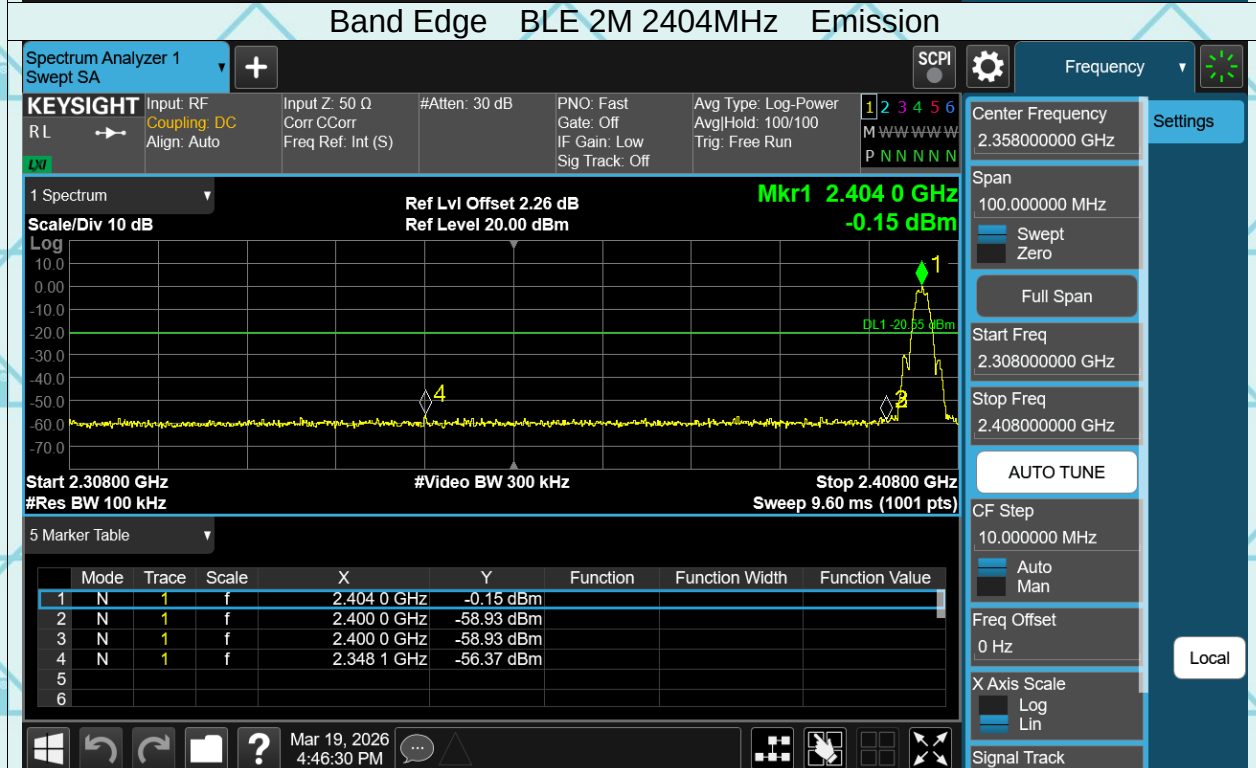
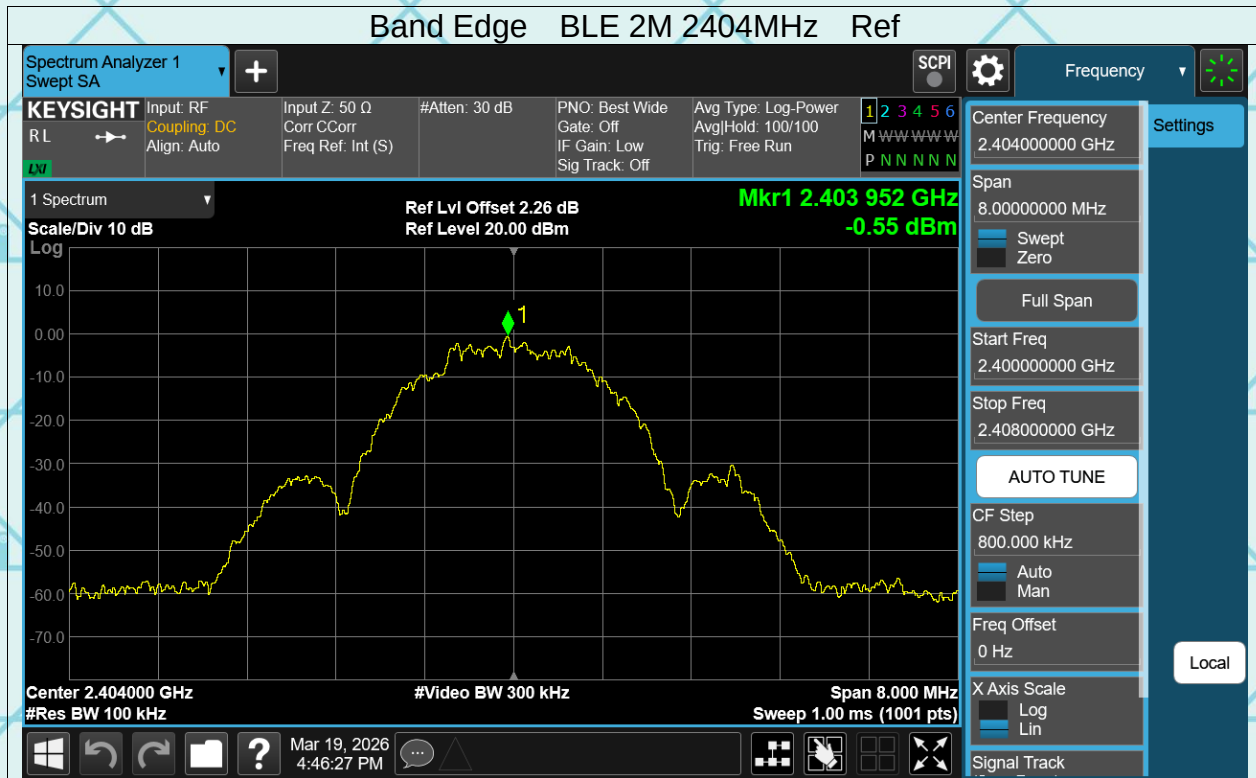


Band Edge BLE 1M 2402MHz Emission

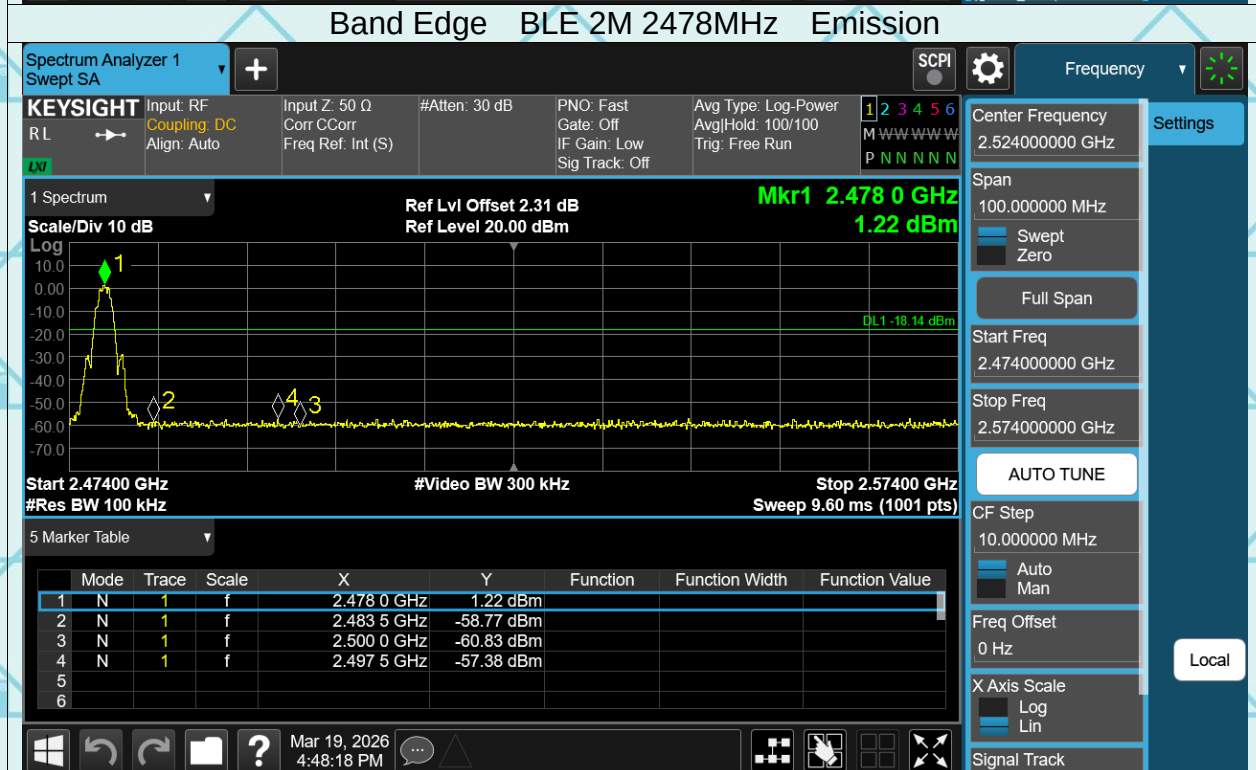
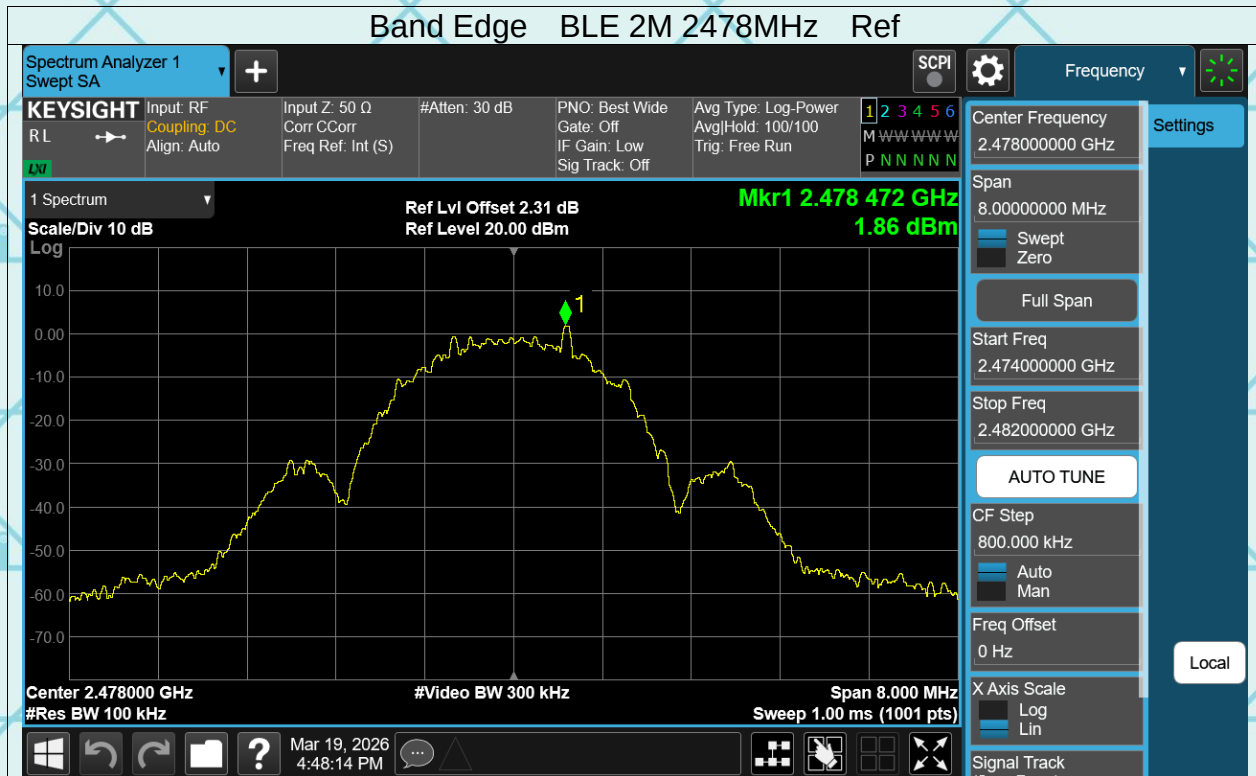


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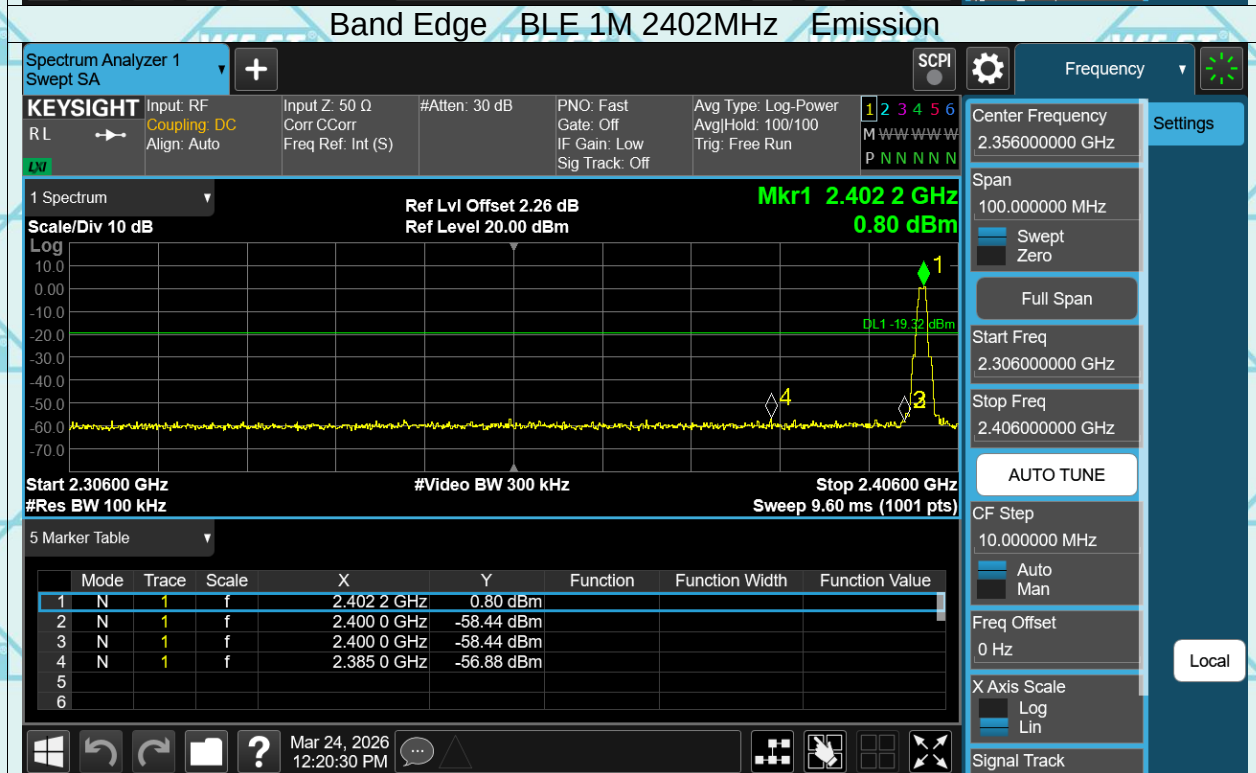
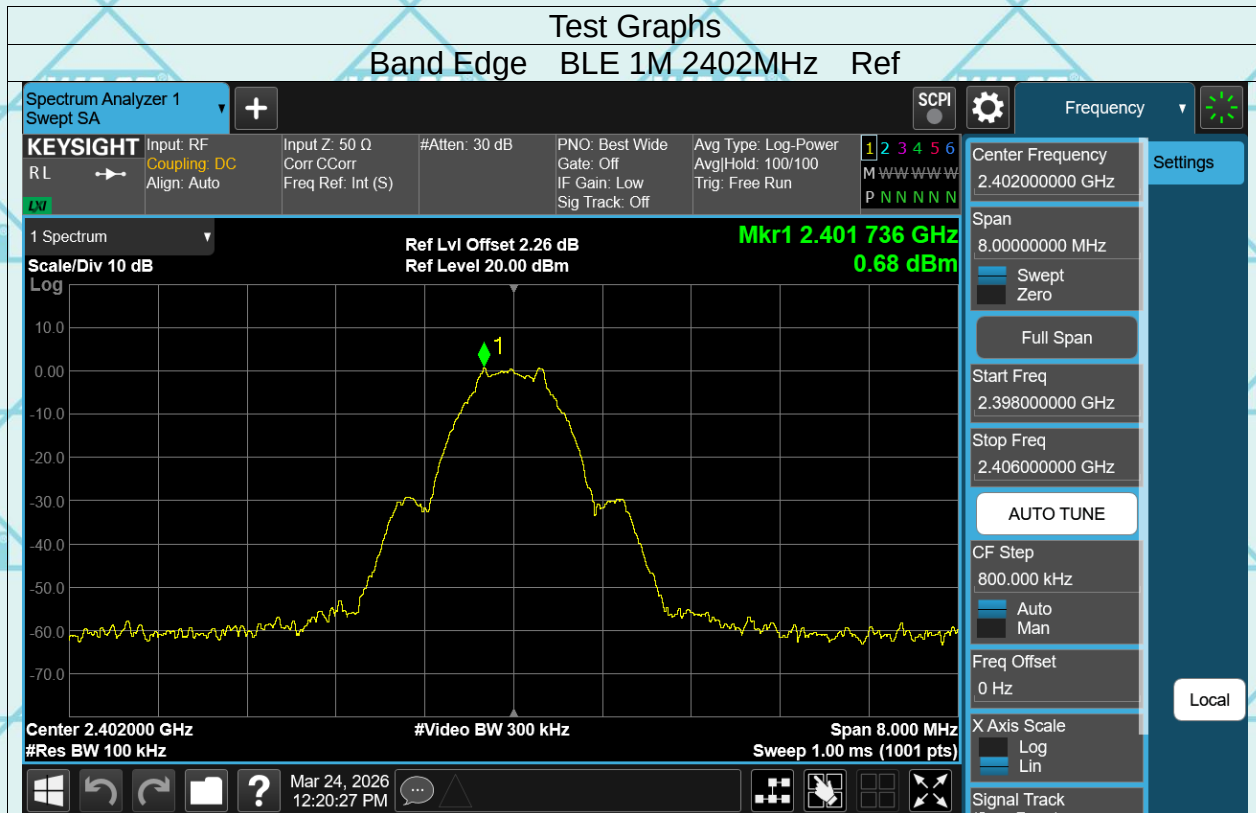




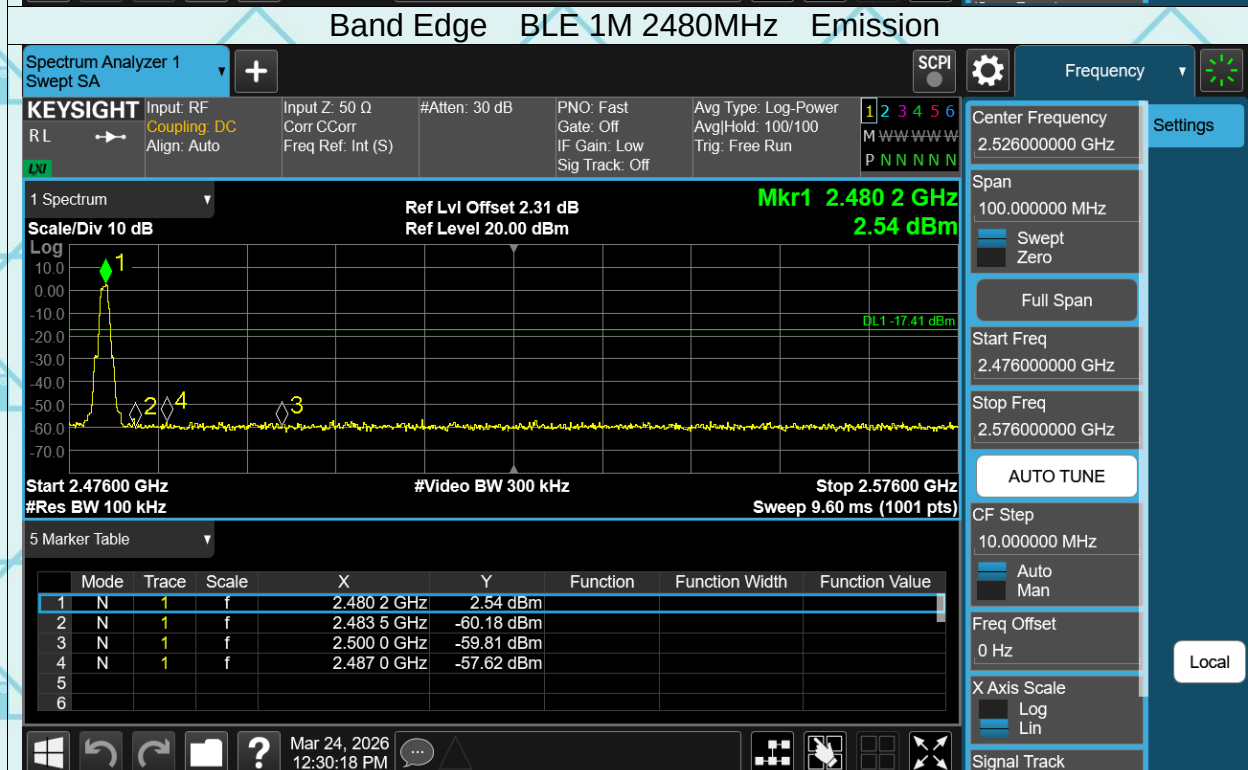
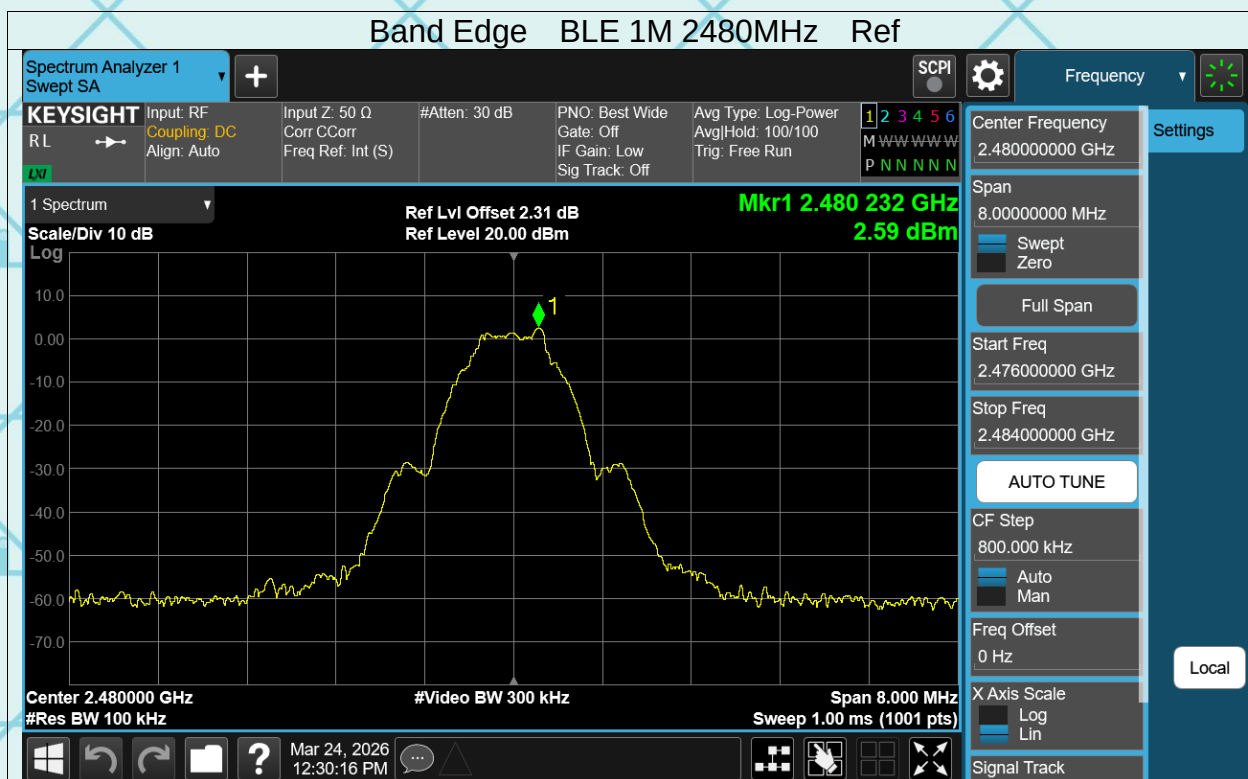
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026

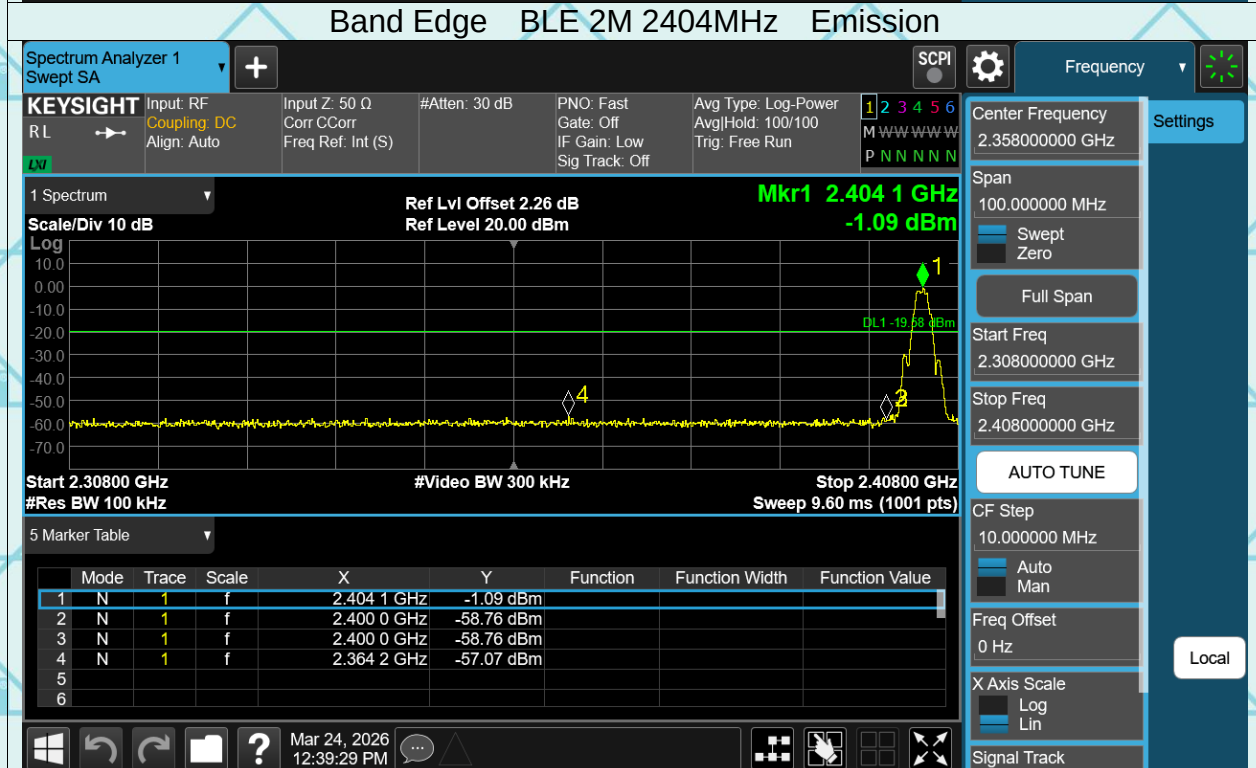
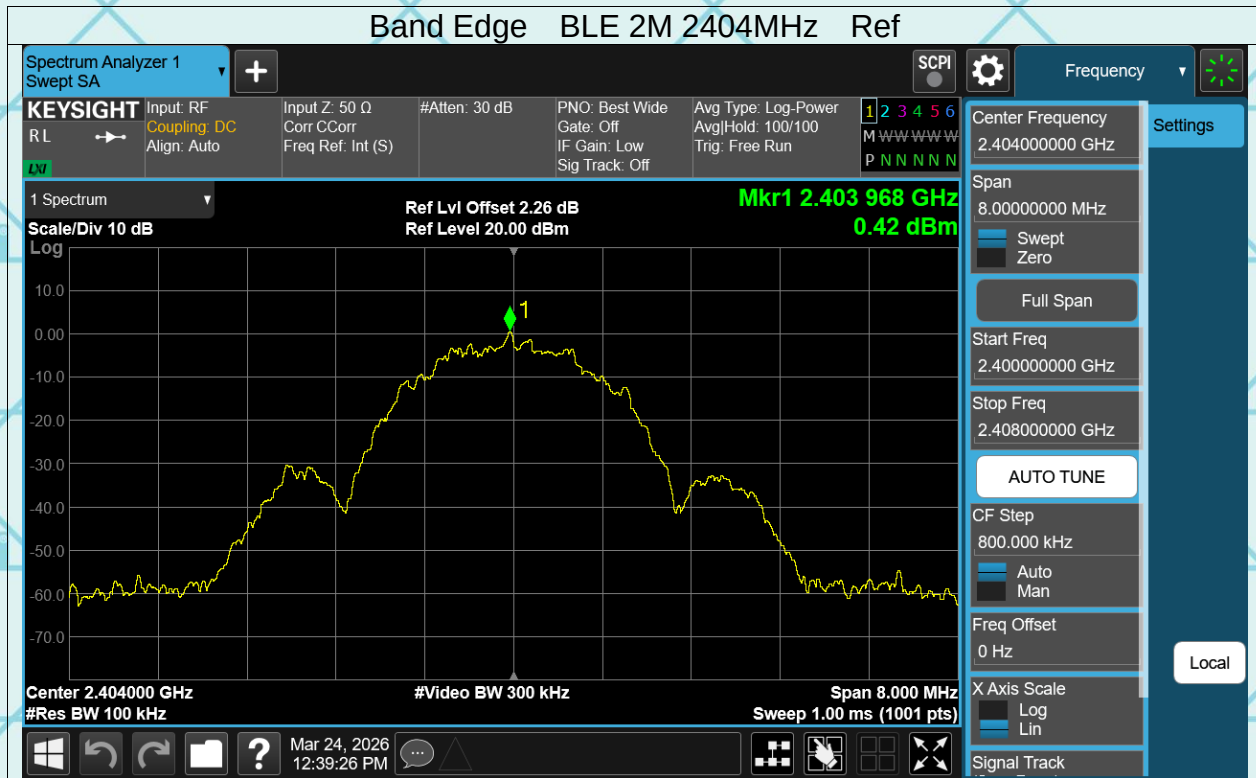


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ANT2

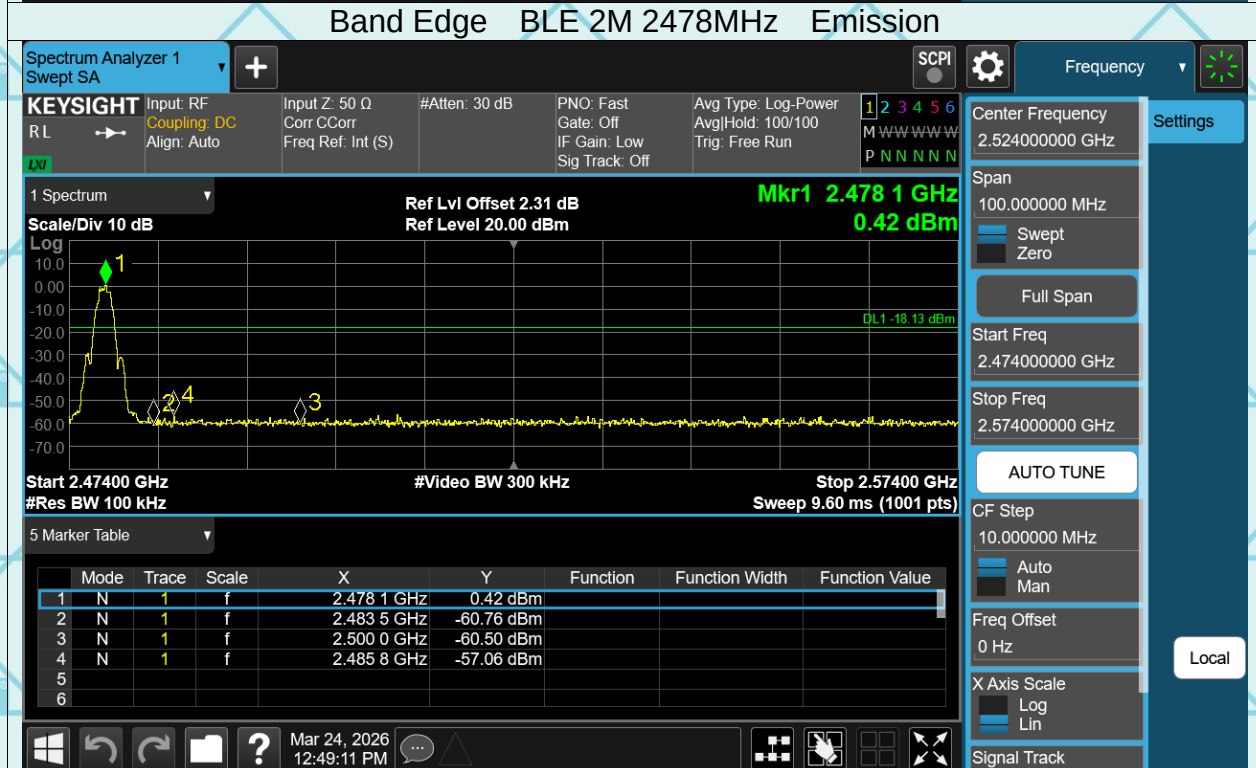
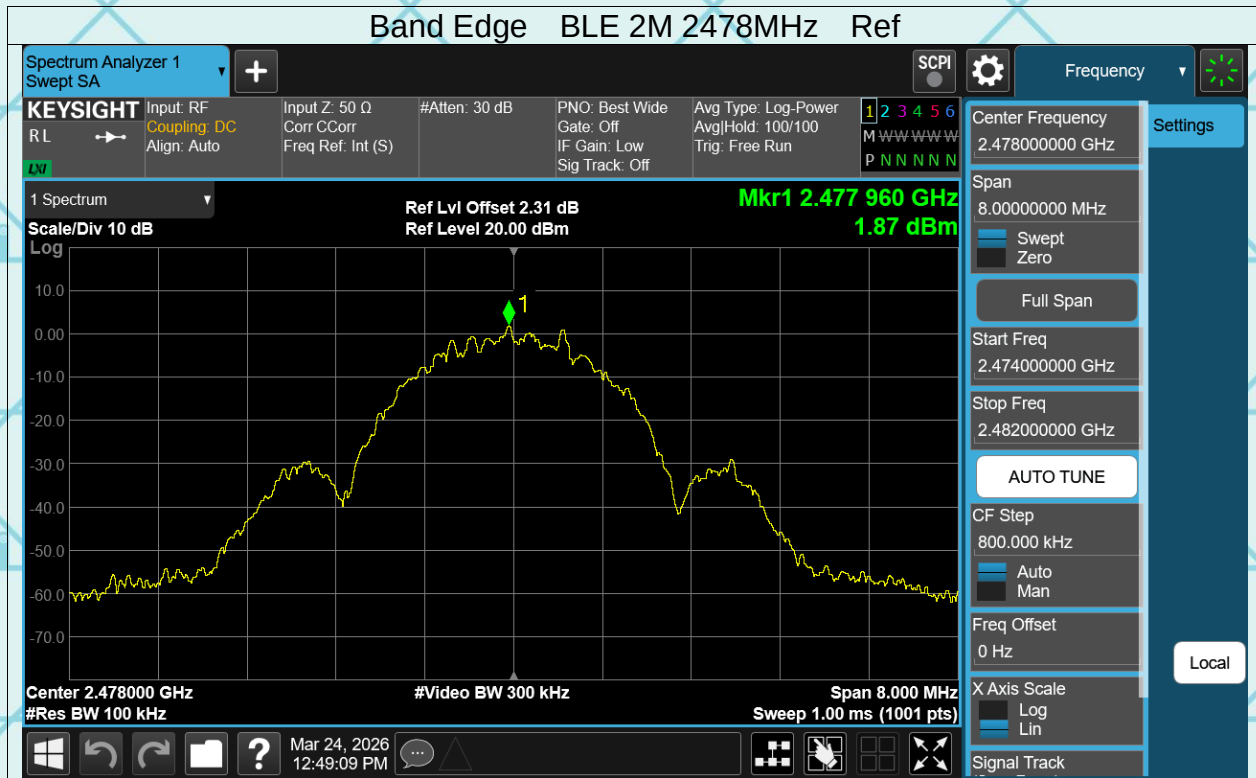


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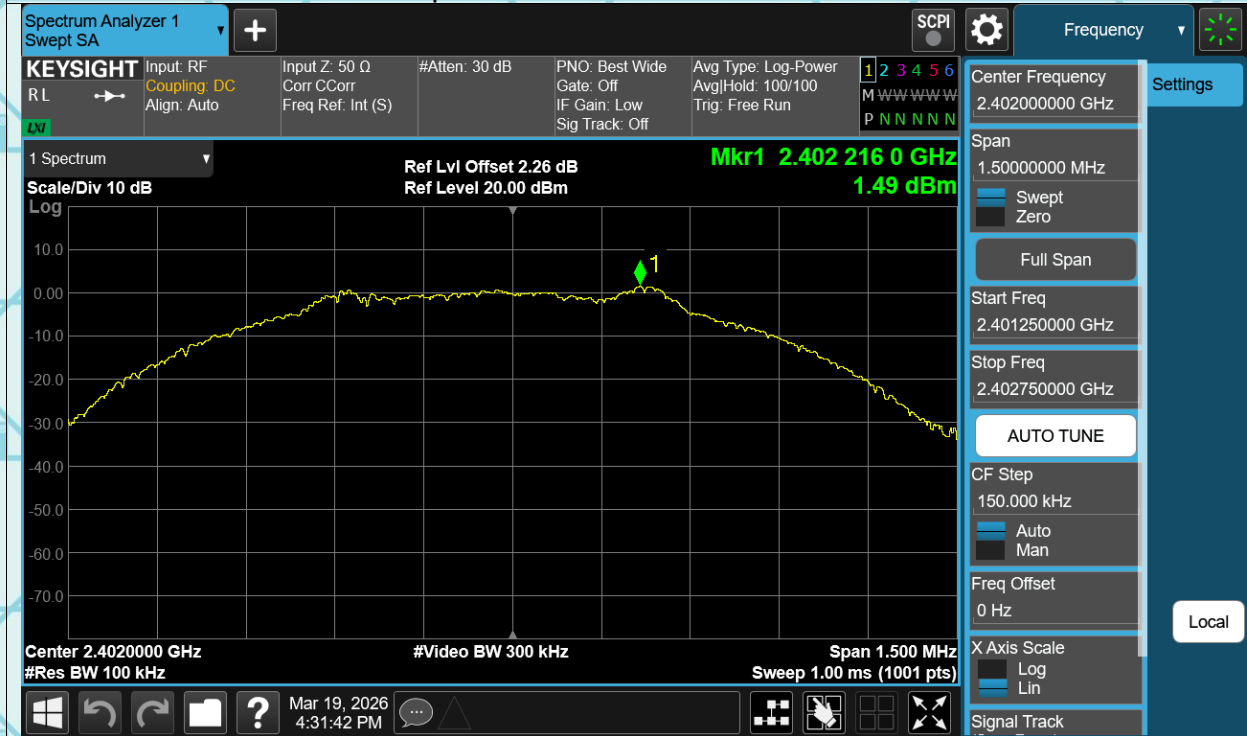
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026

Conducted RF Spurious Emission

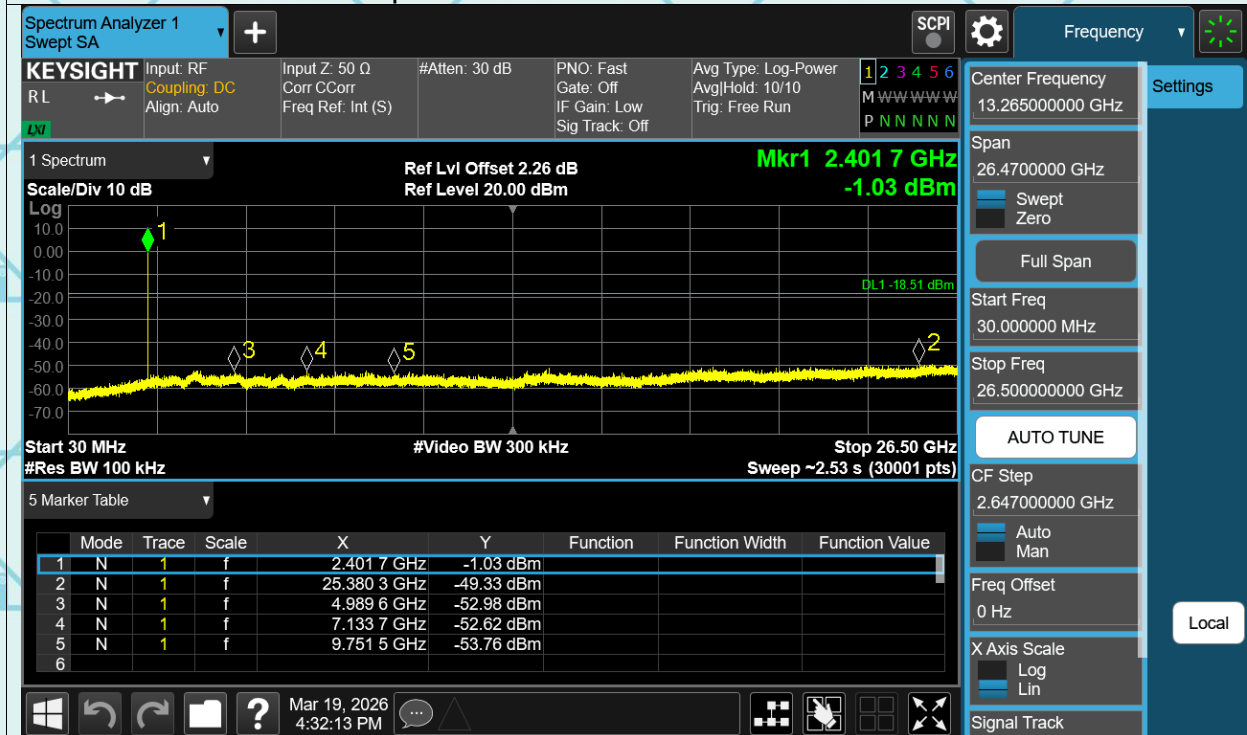
ANT1

Test Graphs

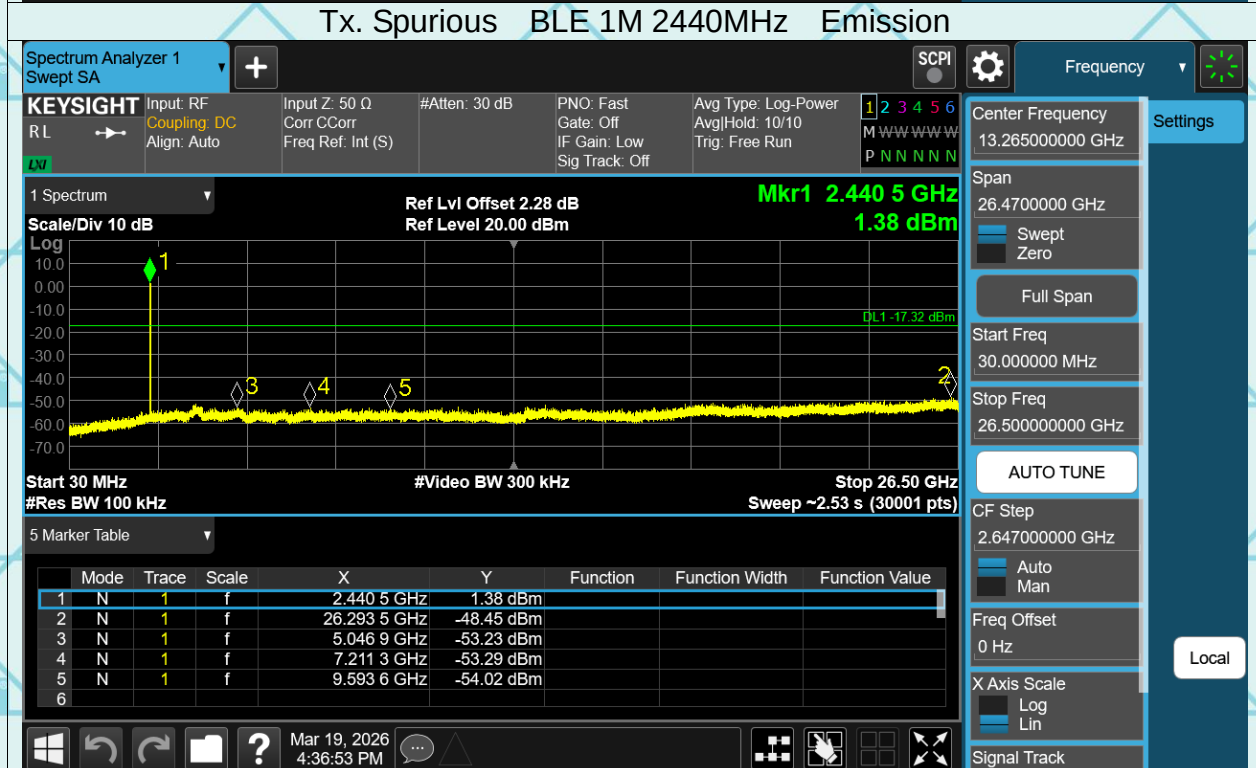
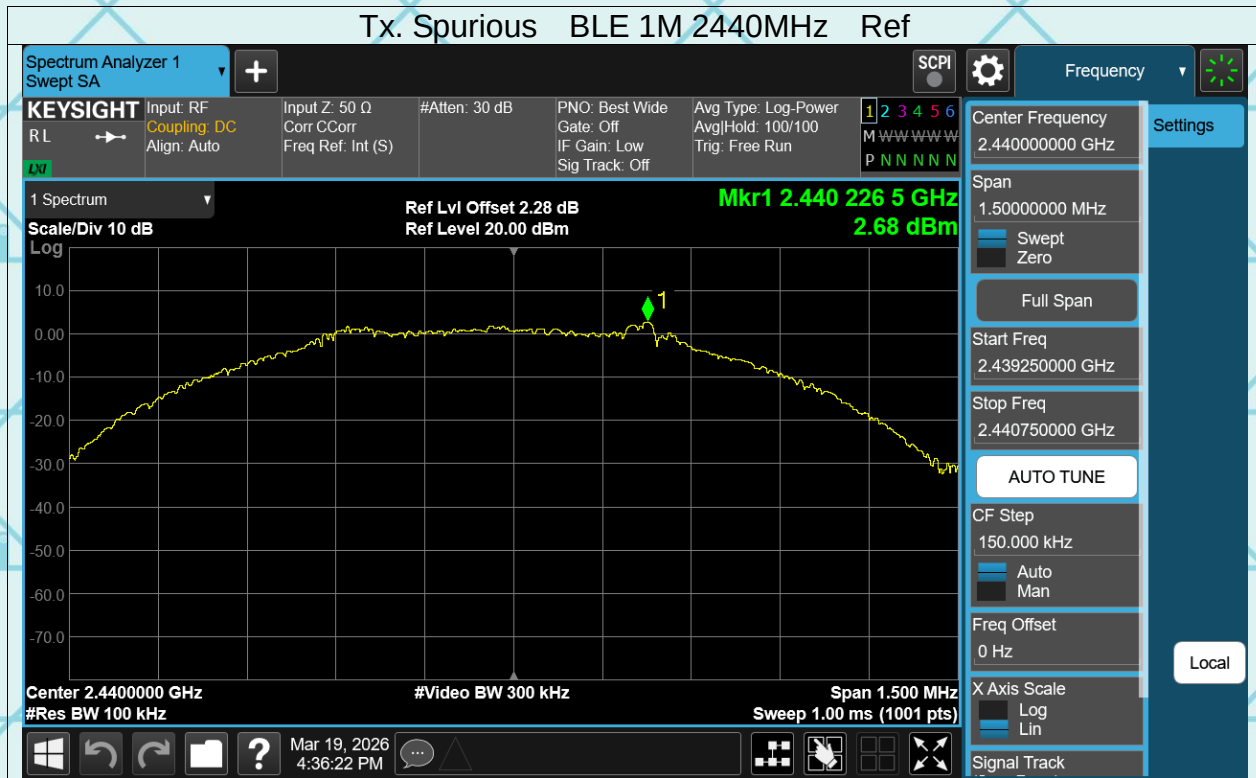
Tx: Spurious BLE 1M 2402MHz Ref



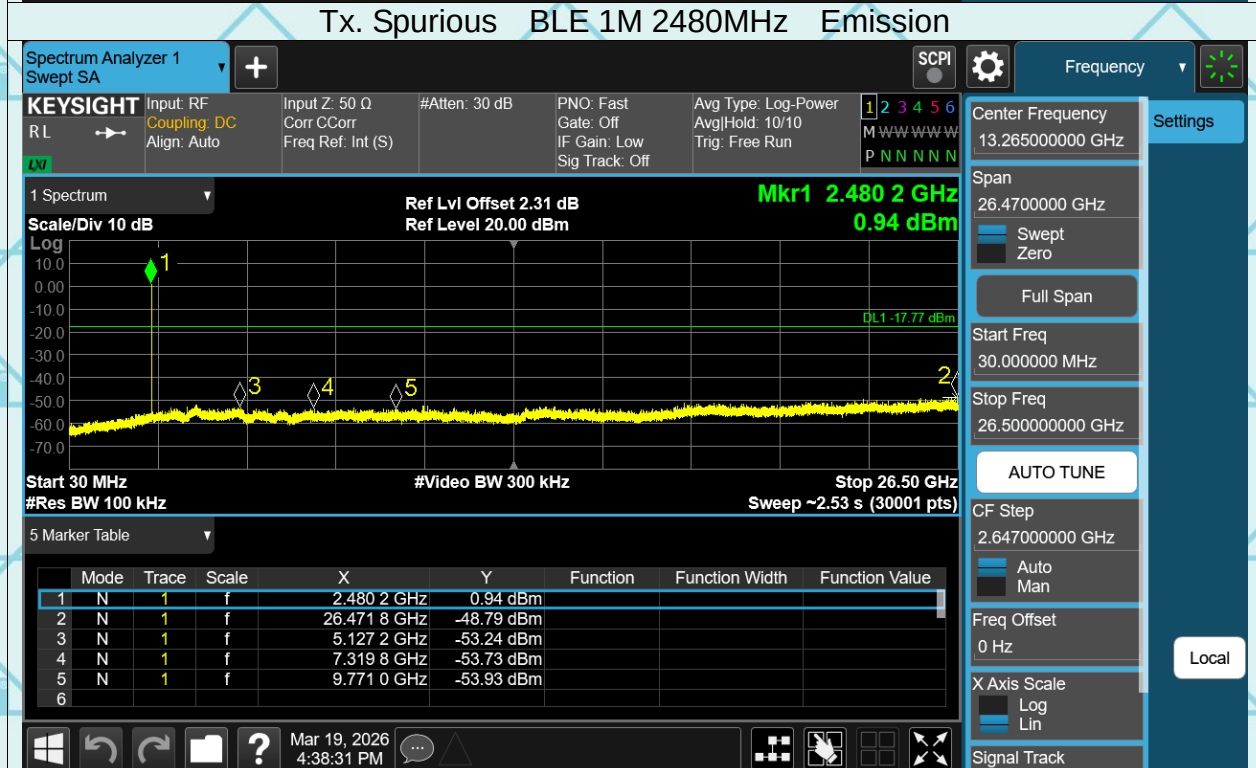
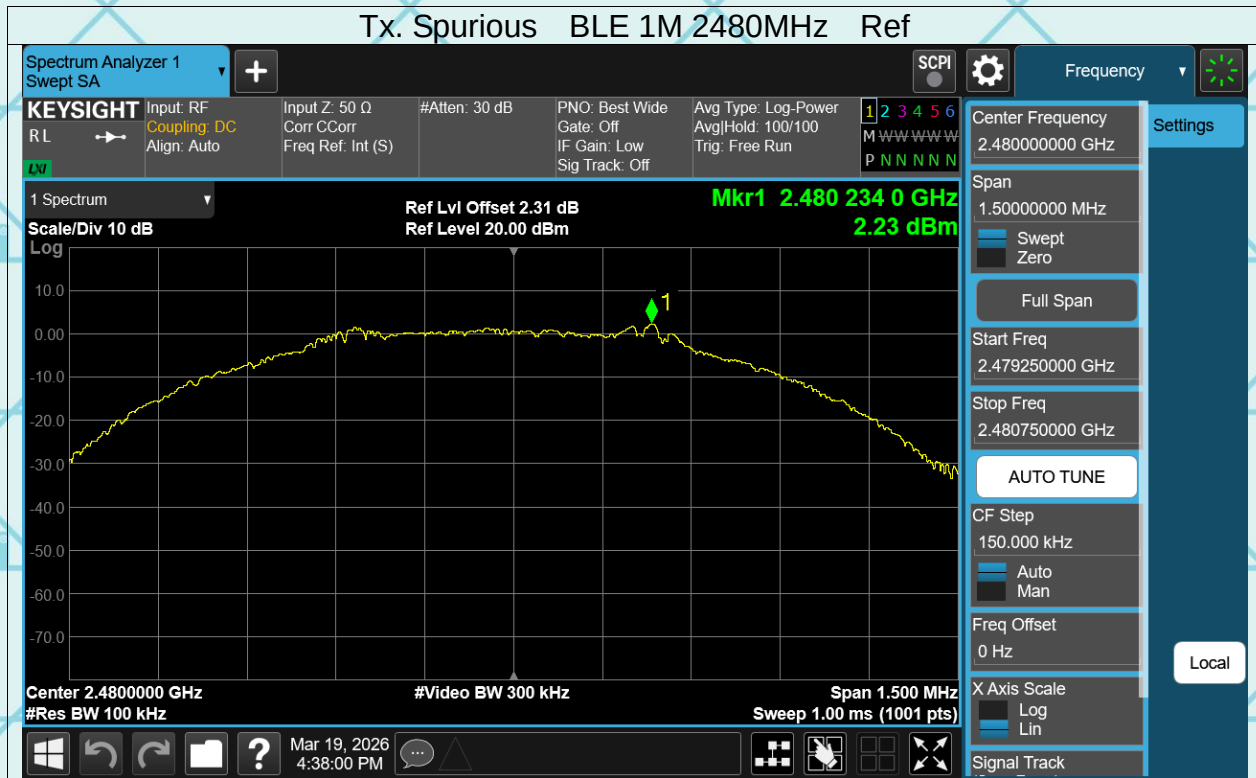
Tx: Spurious BLE 1M 2402MHz Emission



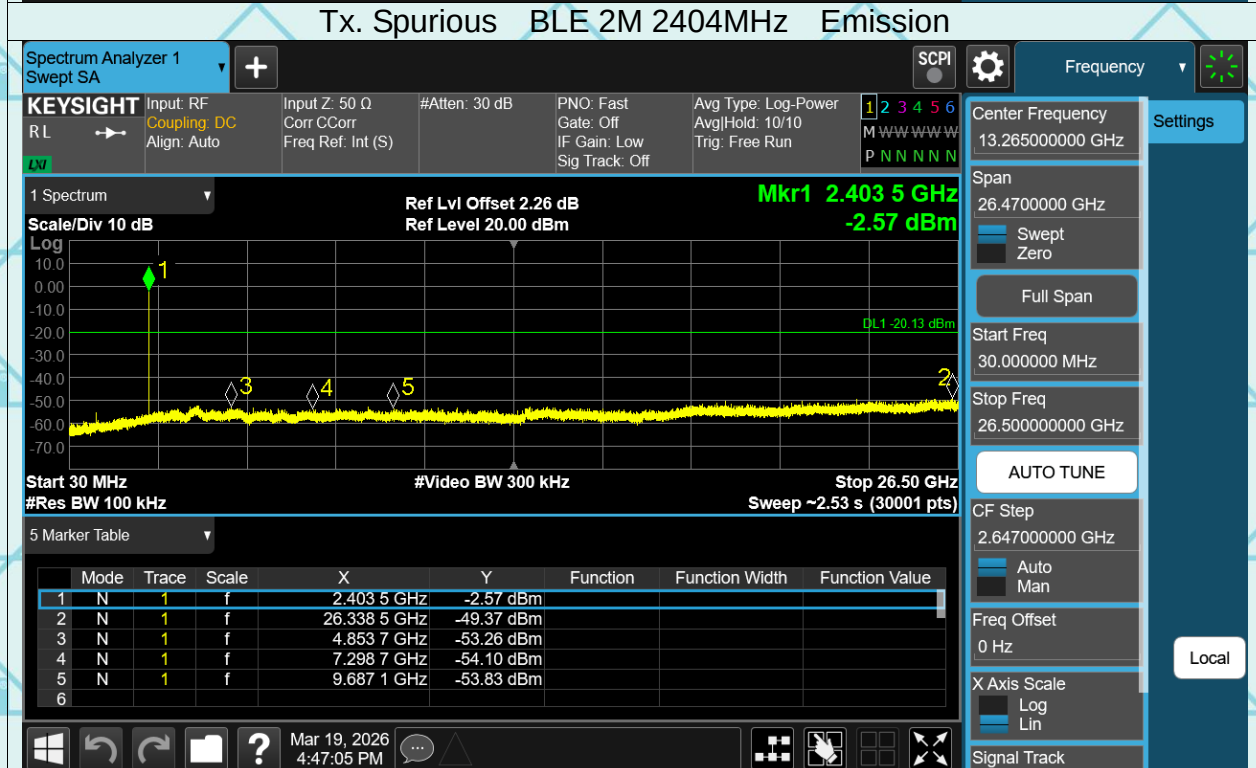
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026



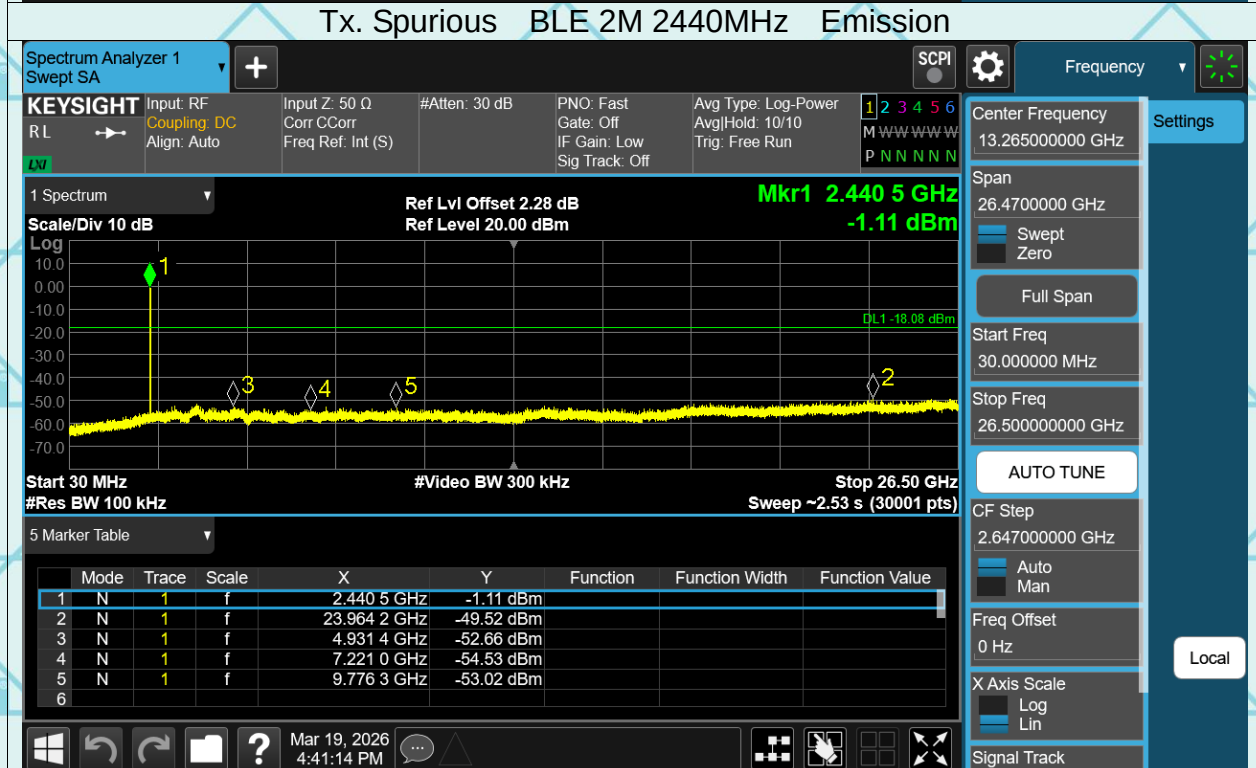
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026



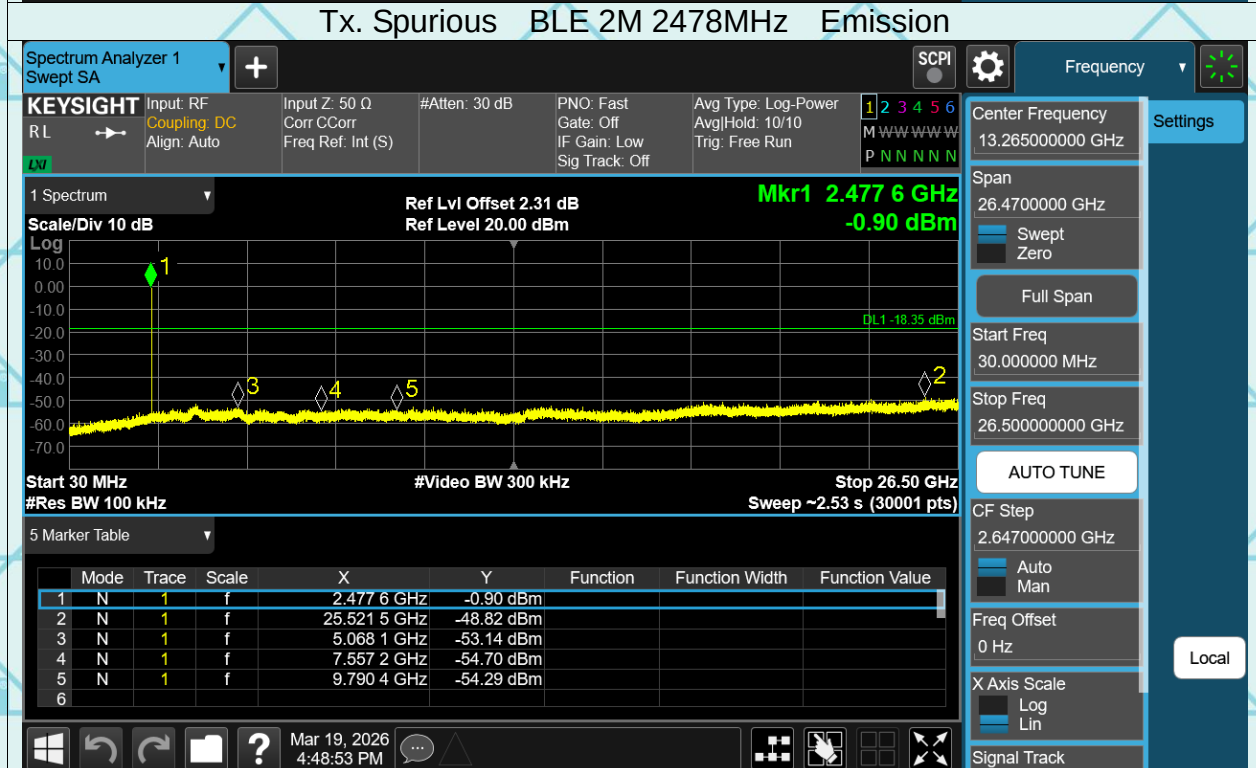
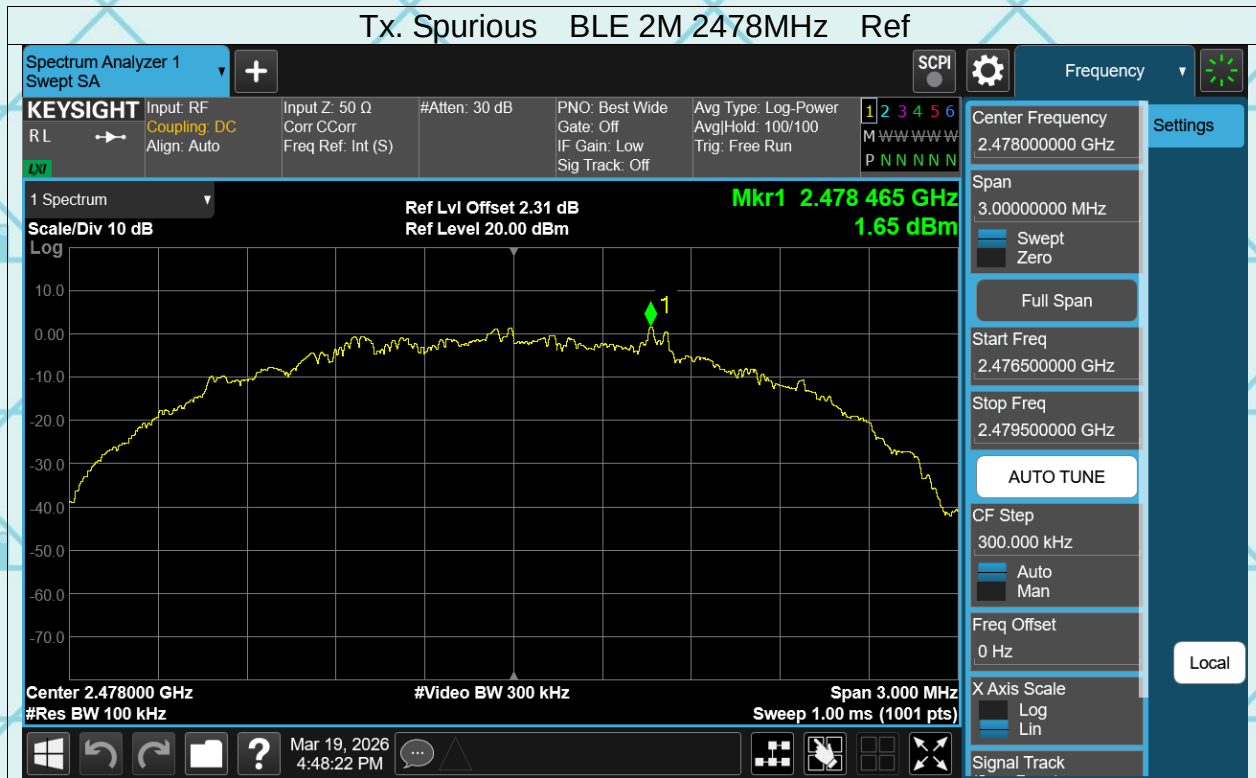
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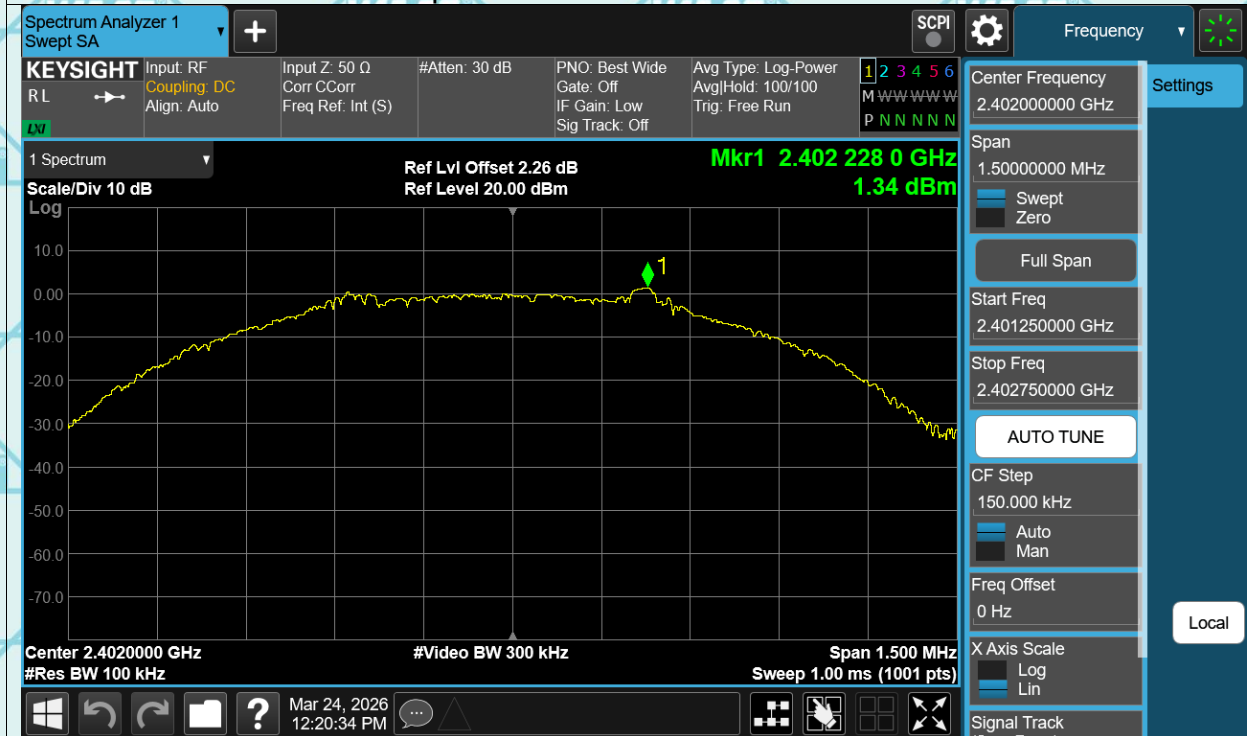
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026



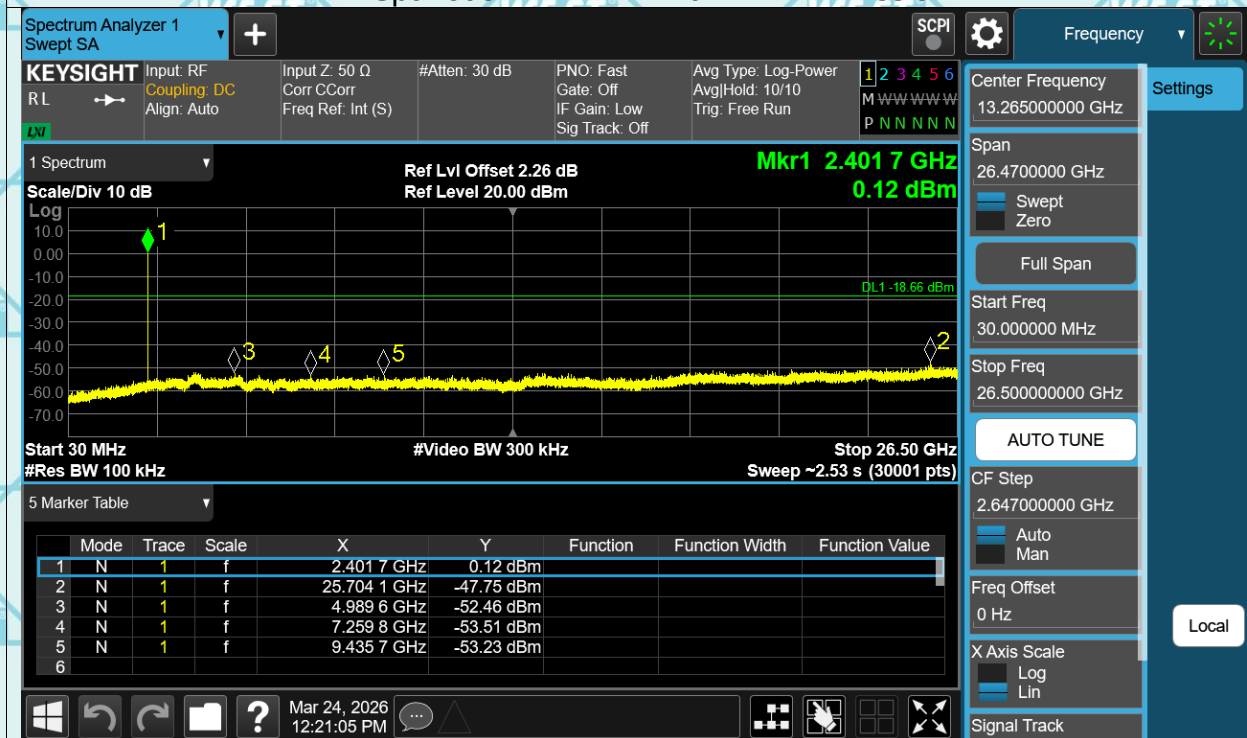
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026
ANT2

Test Graphs

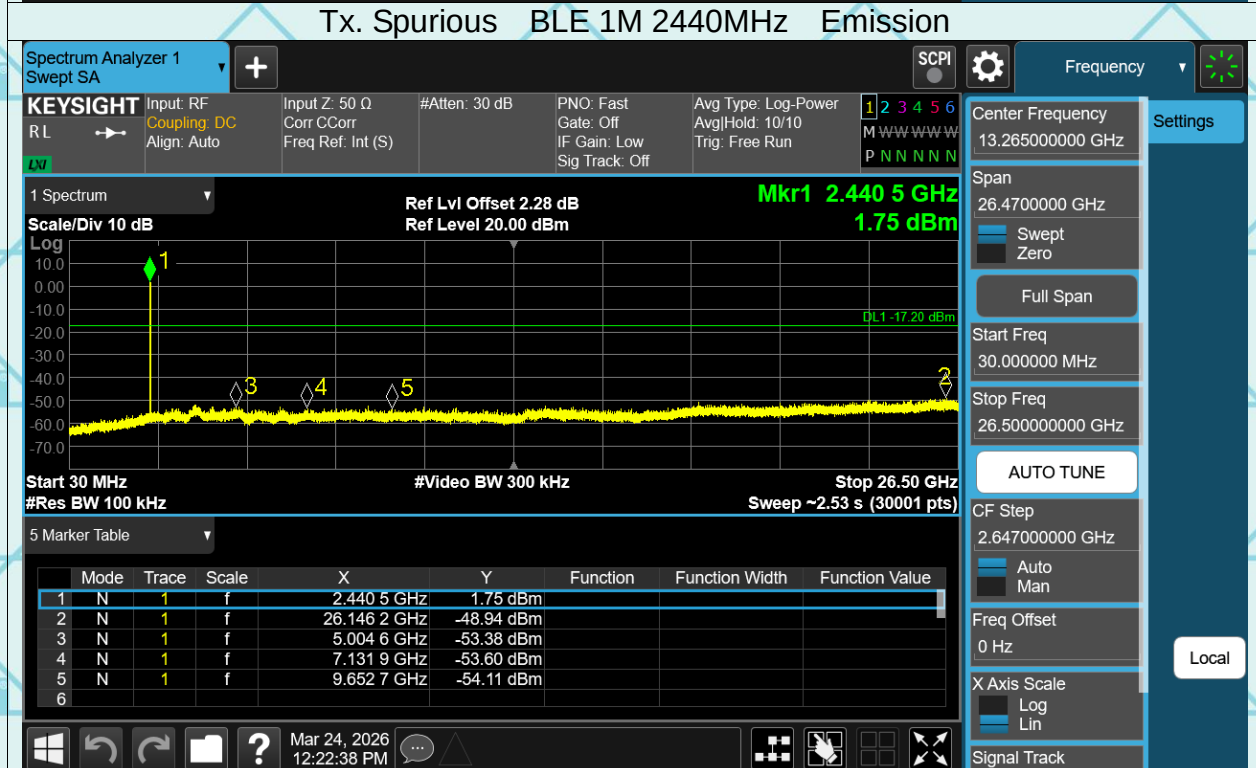
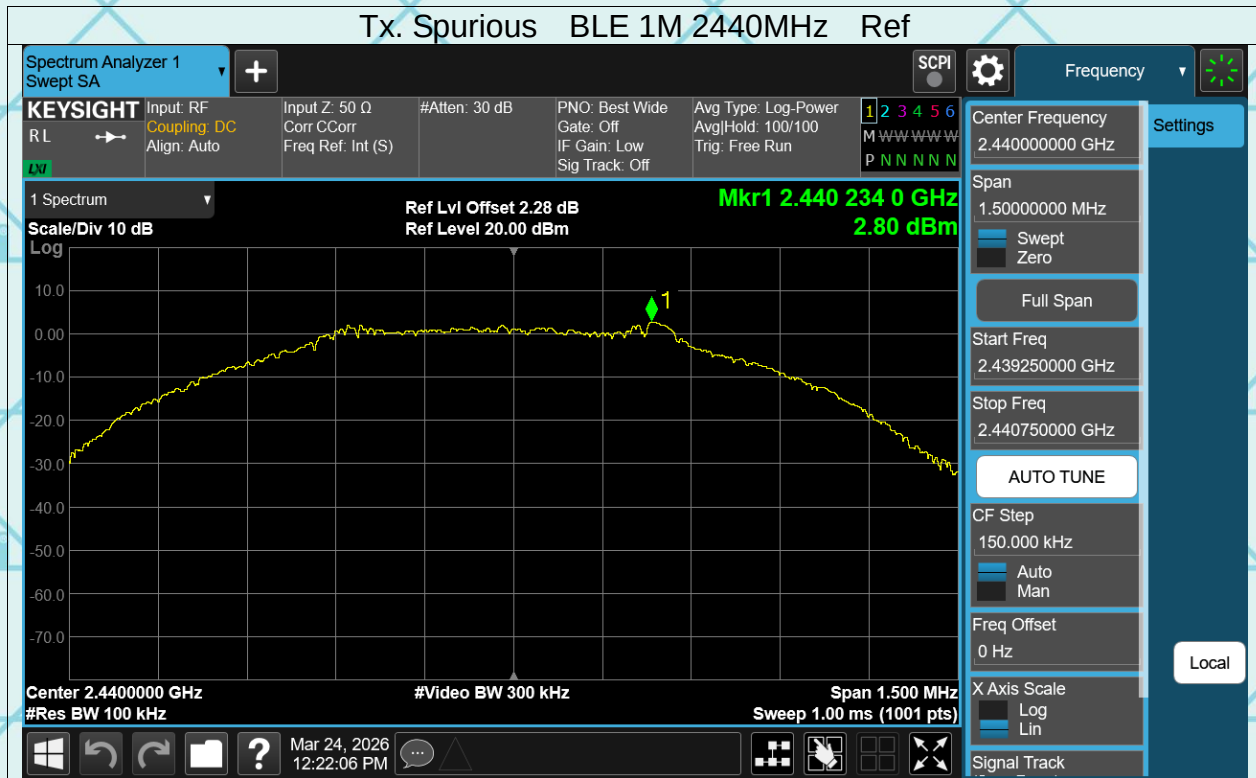
Tx. Spurious BLE 1M 2402MHz Ref



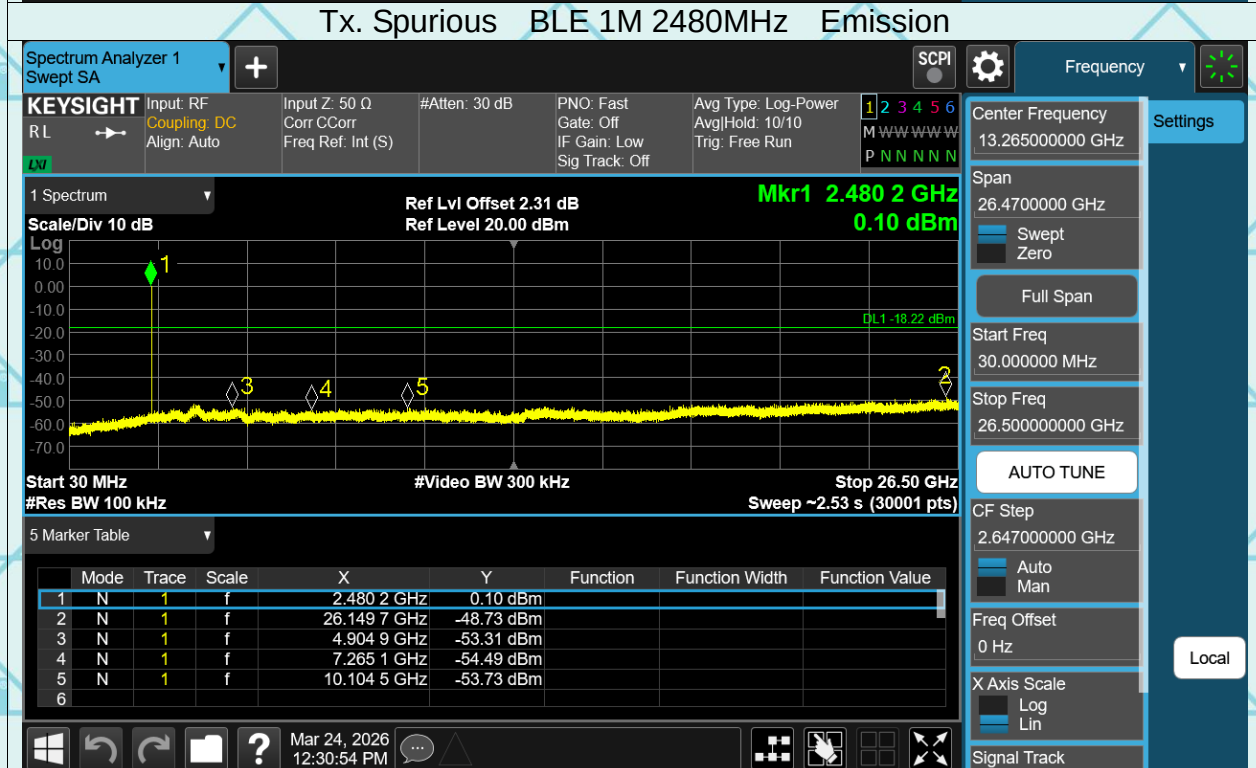
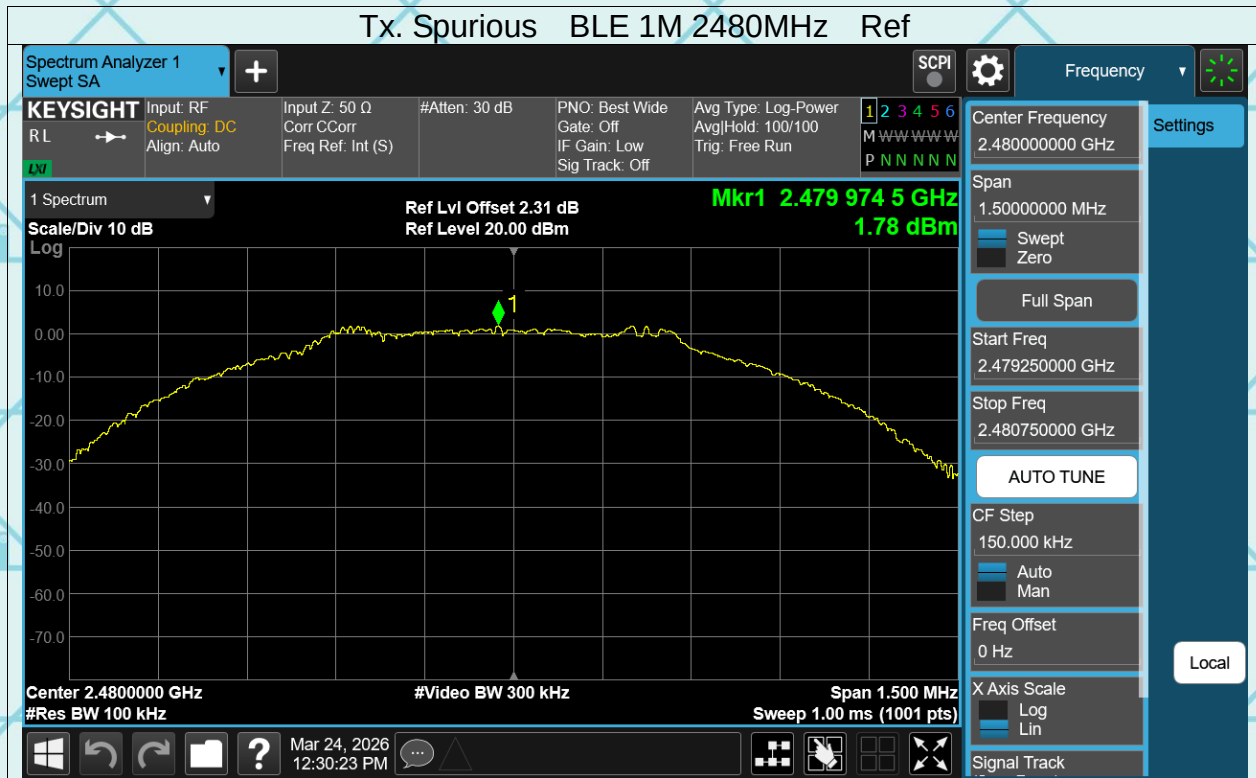
Tx. Spurious BLE 1M 2402MHz Emission



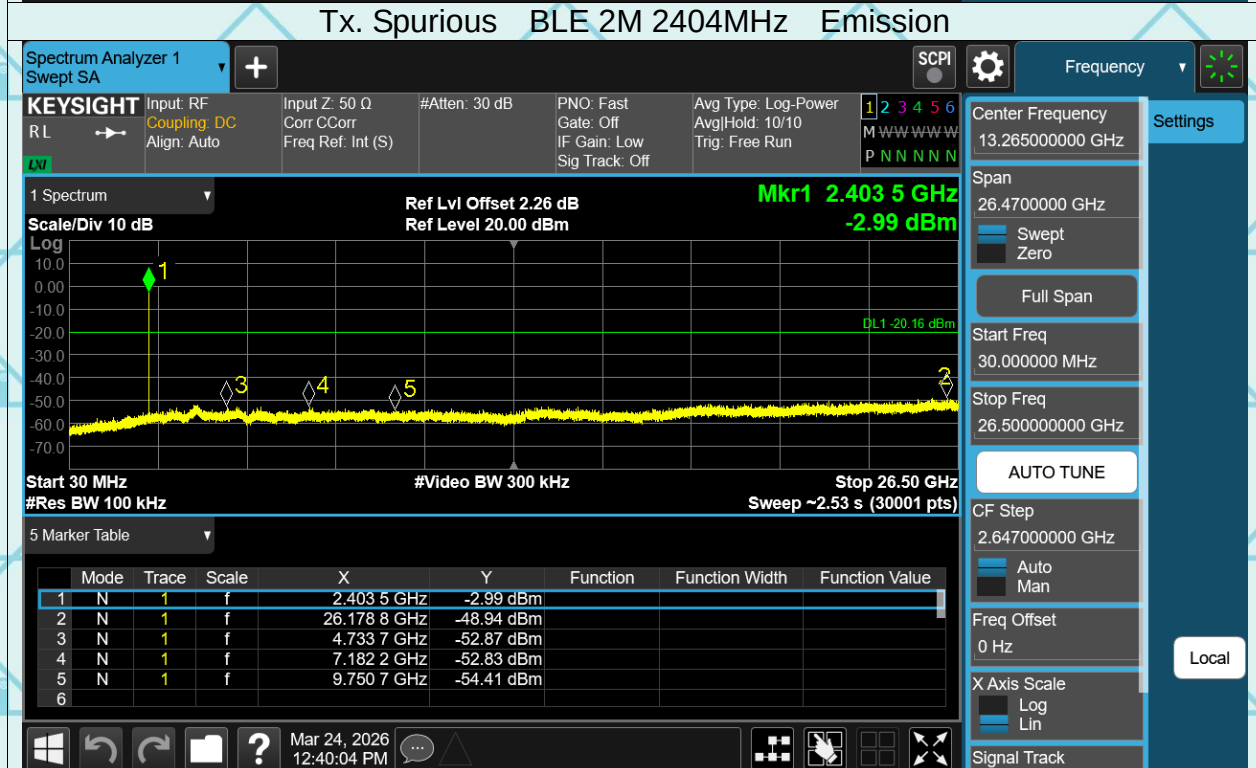
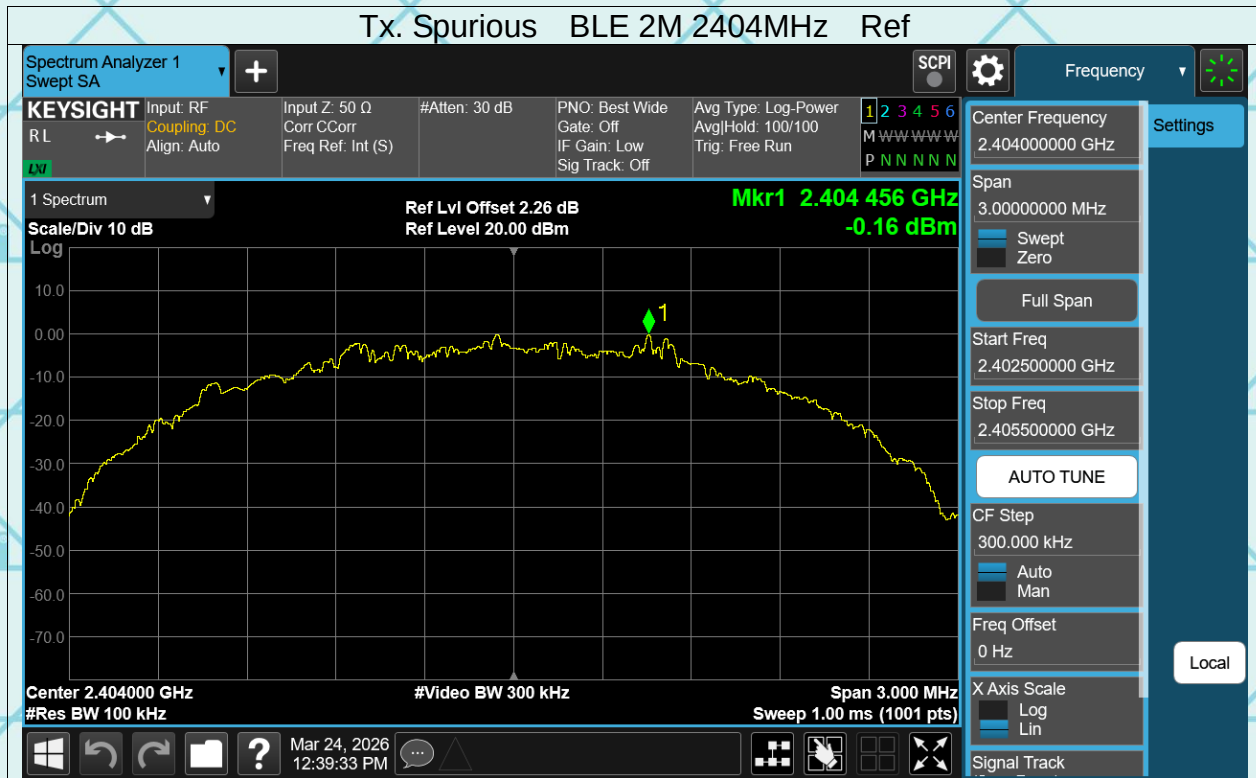
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026



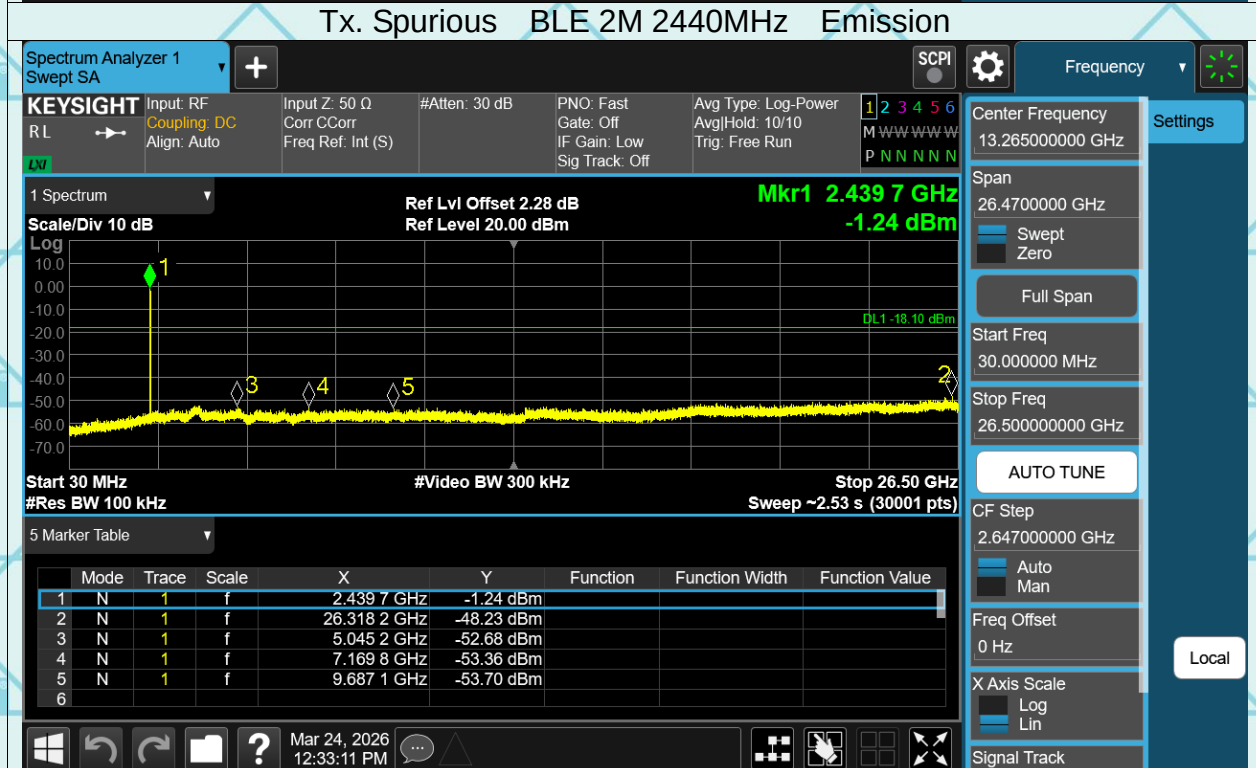
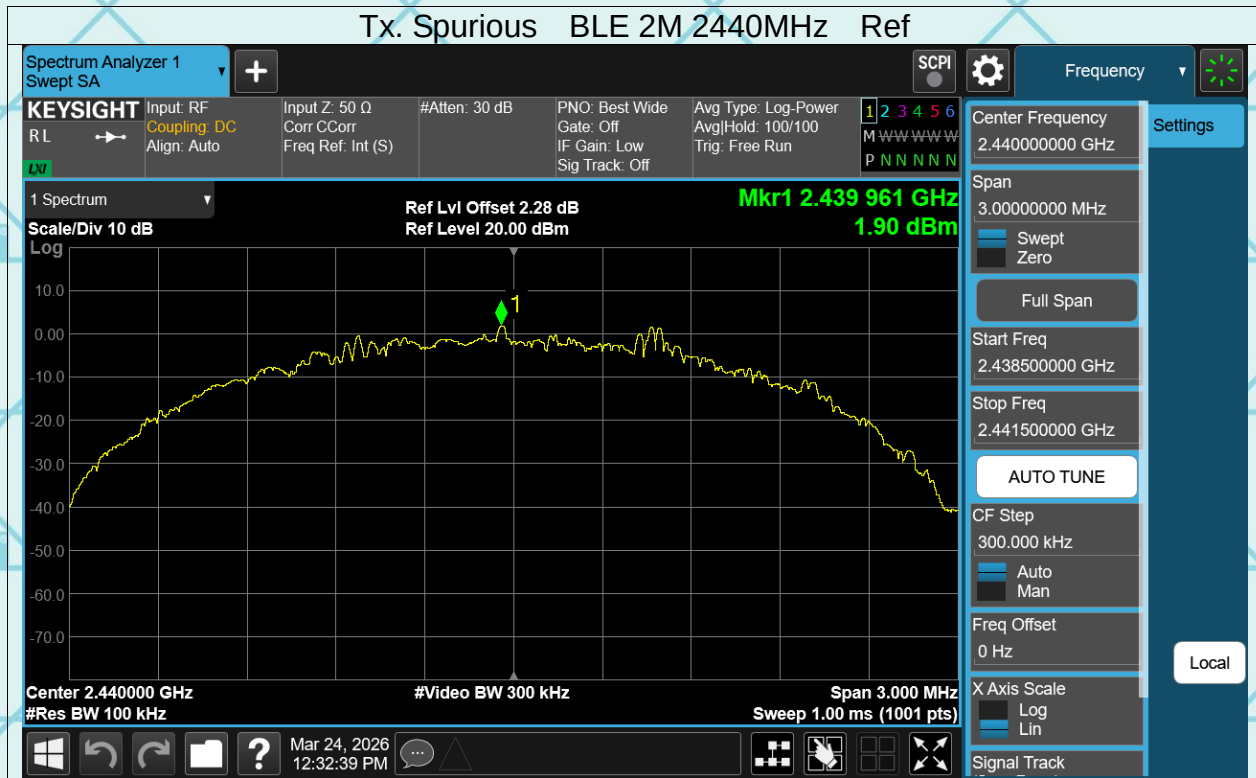
Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026



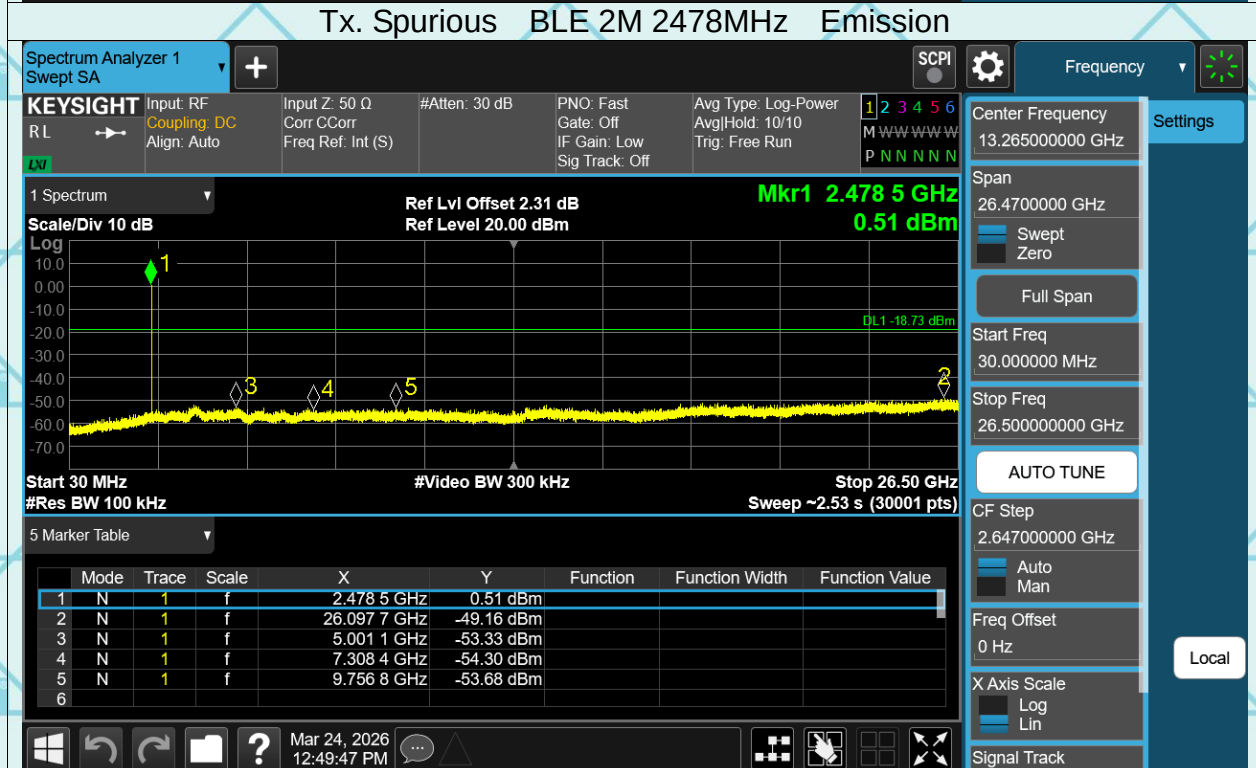
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Report No.: WSCT-ANAB-R&E260200024A-LE Issued Date: 09 April 2026

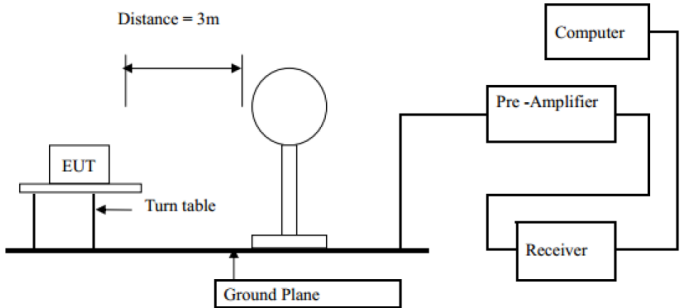


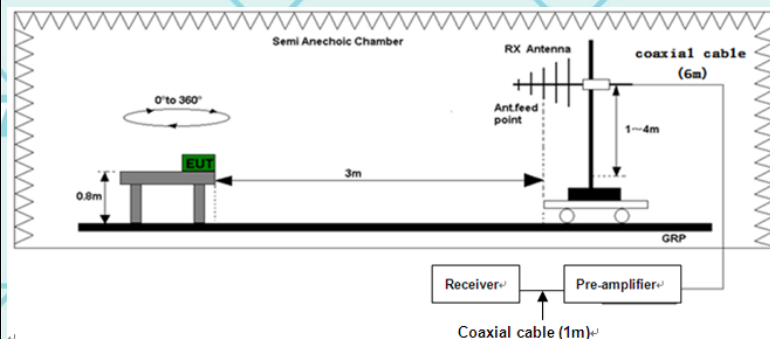
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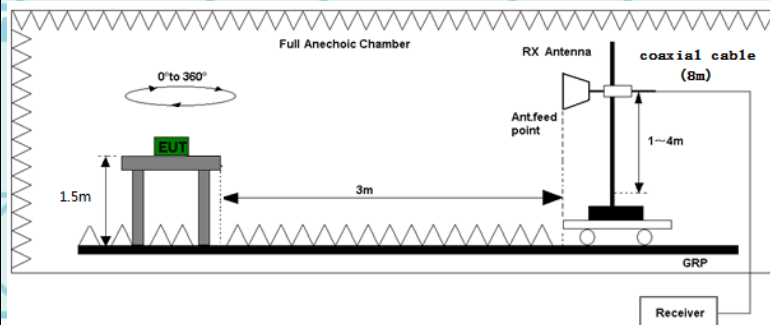
6.7. Radiated Spurious Emission Measurement

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209			
Test Method:	ANSI C63.10:2020			
Frequency Range:	9 kHz to 25 GHz			
Measurement Distance:	3 m			
Antenna Polarization:	Horizontal & Vertical			
Operation mode:	Refer to item 4.1			
Receiver Setup:	Frequency	Detector	RBW	VBW
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Limit:				Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz
	150kHz- 30MHz	Quasi-peak	9kHz	30kHz
	30MHz-1GHz	Quasi-peak	100KHz	300KHz
	Above 1GHz	Peak	1MHz	3MHz
Test setup:	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	0.009-0.490	2400/F(KHz)	300	Average
	0.490-1.705	24000/F(KHz)	30	Peak
	1.705-30	30	30	Peak
	30-88	100	3	Peak
Test setup:	88-216	150	3	Peak
	216-960	200	3	Peak
	Above 960	500	3	Peak
	Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
	Above 1GHz	500	3	Average
		5000	3	Peak
Test setup:	For radiated emissions below 30MHz			
				
	30MHz to 1GHz			



Above 1GHz



Test Procedure:

1. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.1 meter above ground. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level.
For the radiated emission test above 1GHz:
Place the measurement antenna on a turntable with 1.5 meter above ground, which is away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
2. Corrected Reading: Antenna Factor + Cable Loss +

	Read Level - Preamplifier Factor = Level 3. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported. 4. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold; (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Test mode:	Refer to section 4.1 for details
Test results:	PASS

Note 1: The symbol of "--" in the table which means not application.

Note 2: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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6.7.2. Test Data(Worst case)

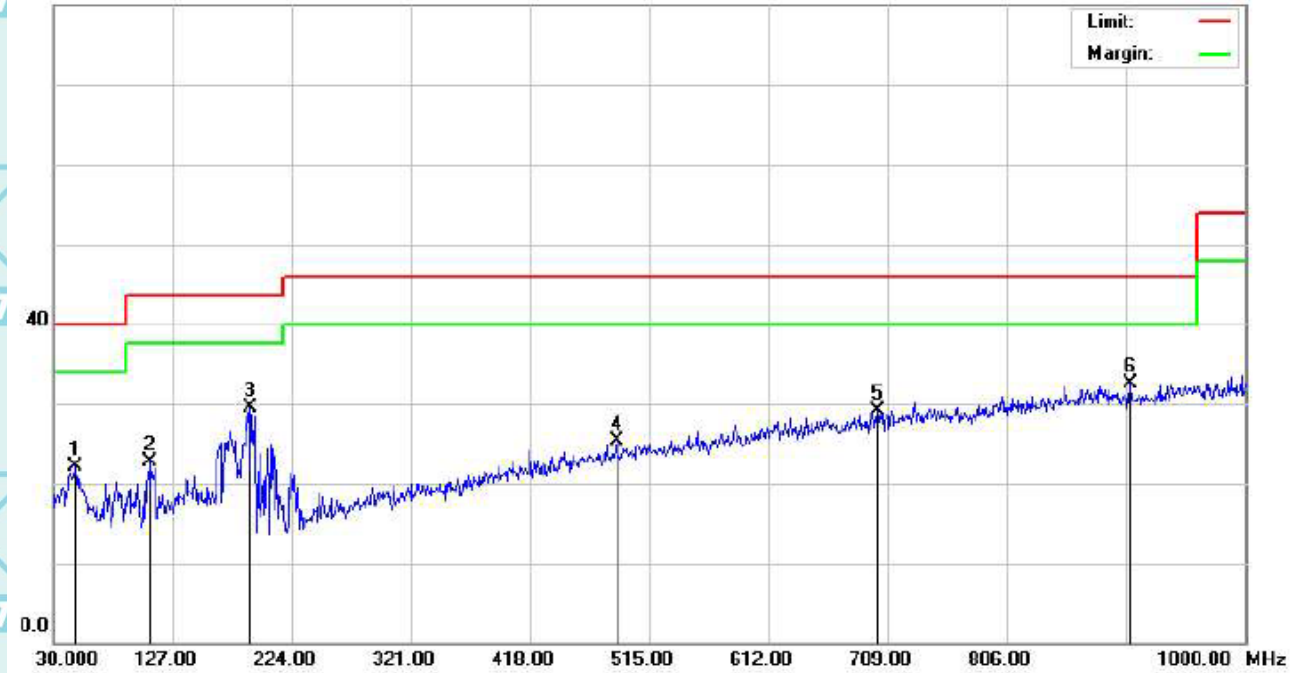
The worst mode is ANT1 2402MHz

Please refer to following diagram for individual

Below 1GHz

Horizontal:

80.0 dBuV/m

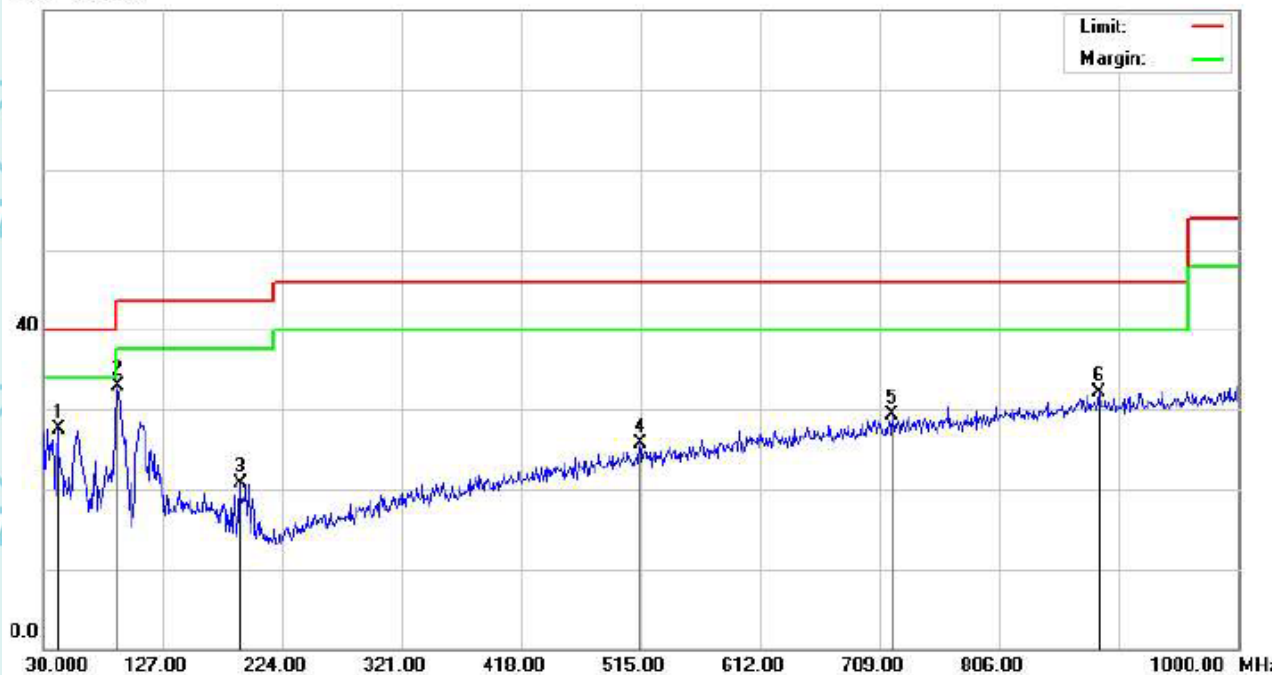


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		47.4600	29.69	-7.67	22.02	40.00	-17.98	QP
2		108.5700	32.98	-10.35	22.63	43.50	-20.87	QP
3		189.0800	39.24	-9.64	29.60	43.50	-13.90	QP
4		487.8400	26.67	-1.27	25.40	46.00	-20.60	QP
5		700.2700	25.81	3.22	29.03	46.00	-16.97	QP
6	*	905.9100	25.87	6.57	32.44	46.00	-13.56	QP

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Vertical:

80.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		41.6400	48.02	-20.52	27.50	40.00	-12.50	QP
2	*	90.1400	53.18	-20.20	32.98	43.50	-10.52	QP
3		189.0800	40.45	-19.72	20.73	43.50	-22.77	QP
4		514.0300	43.86	-18.19	25.67	46.00	-20.33	QP
5		718.7000	46.37	-17.10	29.27	46.00	-16.73	QP
6		886.5100	48.08	-16.07	32.01	46.00	-13.99	QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBuV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement (dBuV) = Reading level (dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Over(dB) = Measurement (dBuV) - Limits (dBuV)

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Above 1GHz

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

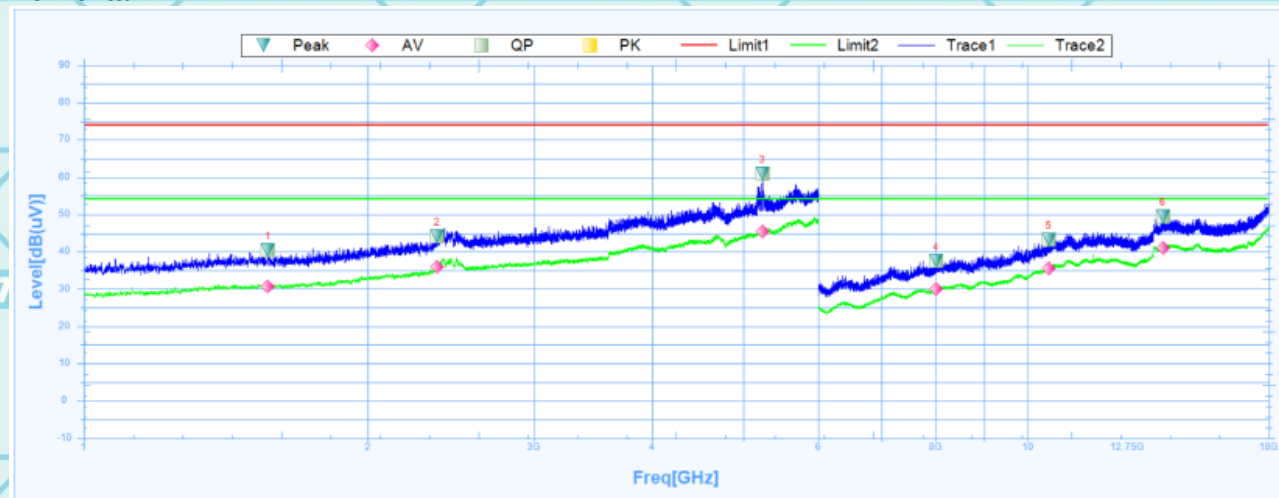
Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: The prototype has two BT antennas, with the worst antenna being ANT1. This project only reflects the worst antenna data

Note 4: BLE 1M and 2M both tested the report and only recorded the worst-case scenario 1M:

Low channel: 2402MHz

Horizontal:



Suspected Data List

NO.	Freq. [MHz]	Level [dB(uV)]	Factor [dB]	Reading [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	1567.5000	40.34	24.93	15.41	74	-33.66	153.9	Horizontal	PK	Pass
1	1567.5000	30.63	24.93	5.7	54	-23.37	153.9	Horizontal	AV	Pass
2	2369.3750	44.09	27.16	16.93	74	-29.91	232.9	Horizontal	PK	Pass
2	2369.3750	35.96	27.16	8.8	54	-18.04	232.9	Horizontal	AV	Pass
3	5236.8750	60.98	31.79	29.19	74	-13.02	149.1	Horizontal	PK	Pass
3	5236.8750	45.51	31.79	13.72	54	-8.49	149.1	Horizontal	AV	Pass
4	8001.0000	37.57	8.28	29.29	74	-36.43	57.9	Horizontal	PK	Pass
4	8001.0000	29.95	8.28	21.67	54	-24.05	57.9	Horizontal	AV	Pass
5	10527.0000	43.18	14.04	29.14	74	-30.82	1.2	Horizontal	PK	Pass
5	10527.0000	35.42	14.04	21.38	54	-18.58	1.2	Horizontal	AV	Pass
6	13903.5000	49.45	18.84	30.61	74	-24.55	0.5	Horizontal	PK	Pass
6	13903.5000	41.02	18.84	22.18	54	-12.98	0.5	Horizontal	AV	Pass