6.5.2. Test data

GFSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
Lowest	1.000	0.463	PASS
Middle	1.000	0.519	PASS
Highest	1.000	0.450	PASS

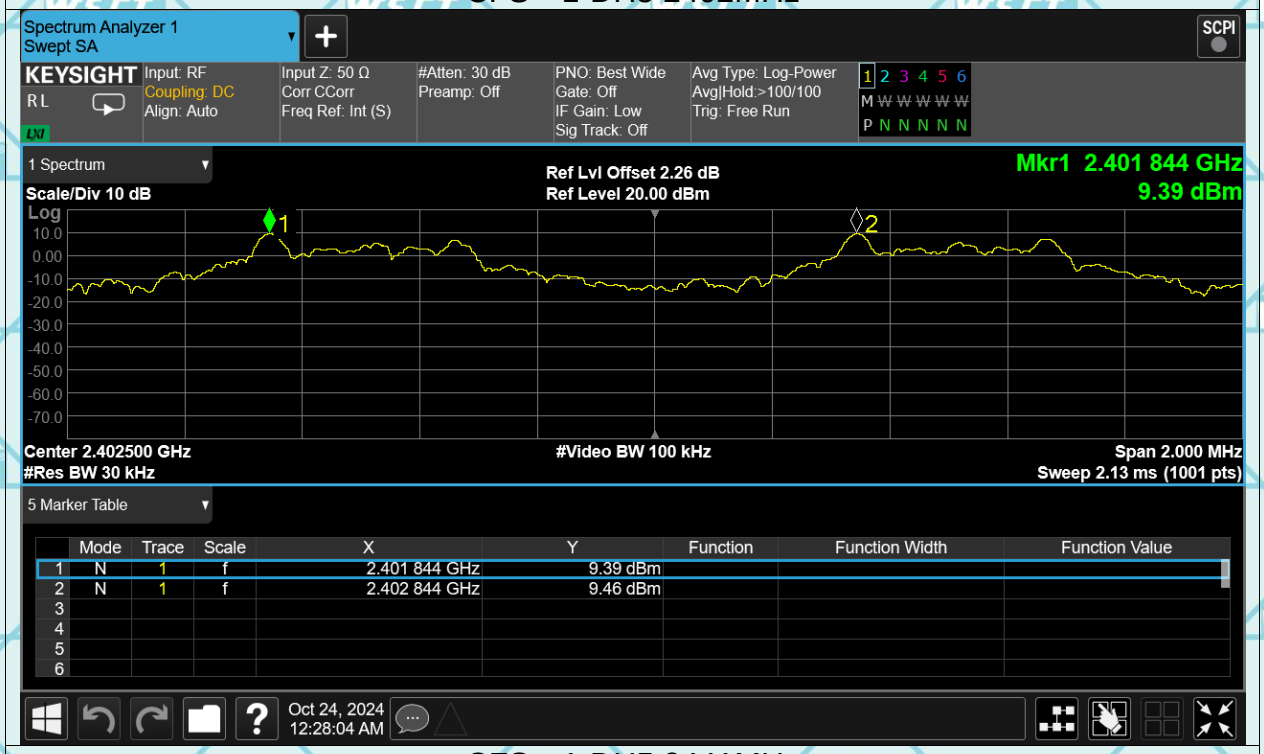
Pi/4 DQPSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
Lowest	1.000	0.718	PASS
Middle	1.000	0.733	PASS
Highest	1.000	0.741	PASS

8DPSK mode			
Test channel	Carrier Frequencies Separation (MHz)	Limit (2/3*20dB BW MHz)	Result
Lowest	1.000	0.724	PASS
Middle	0.998	0.713	PASS
Highest	0.998	0.724	PASS

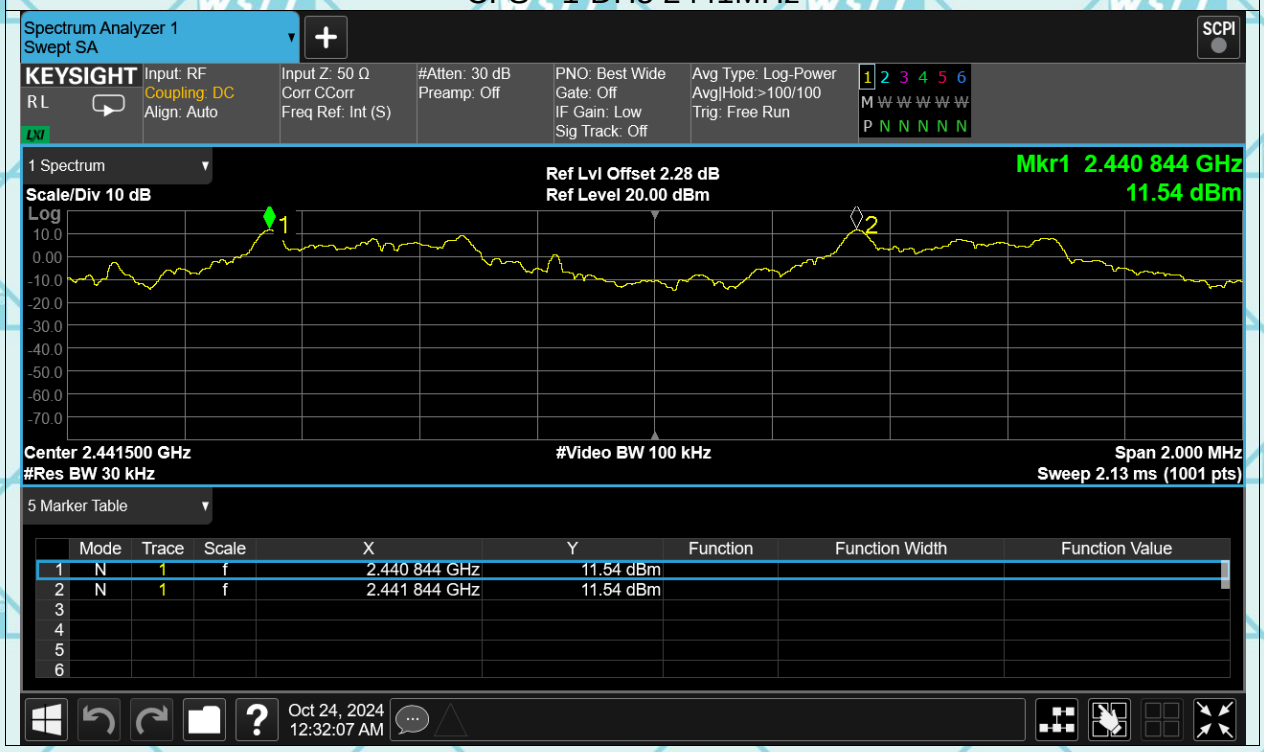
Test plots as follows:

Test Graphs

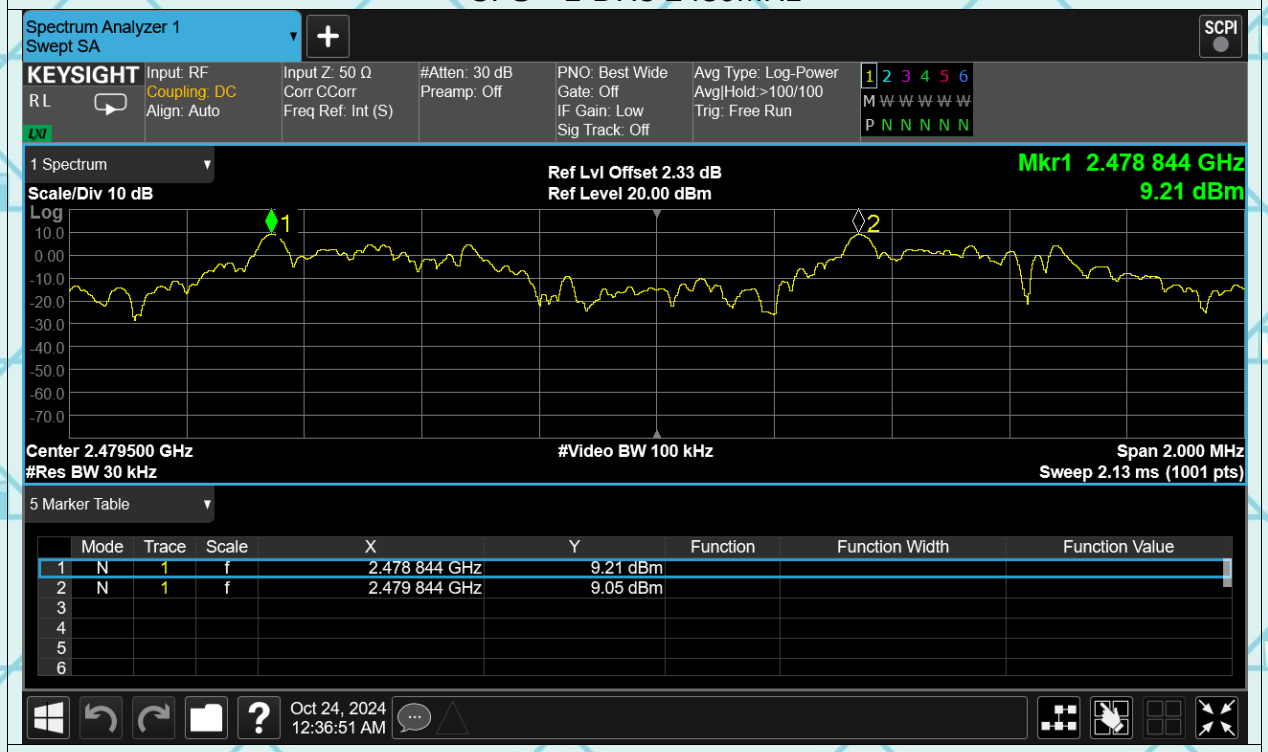
CFS 1-DH5 2402MHz



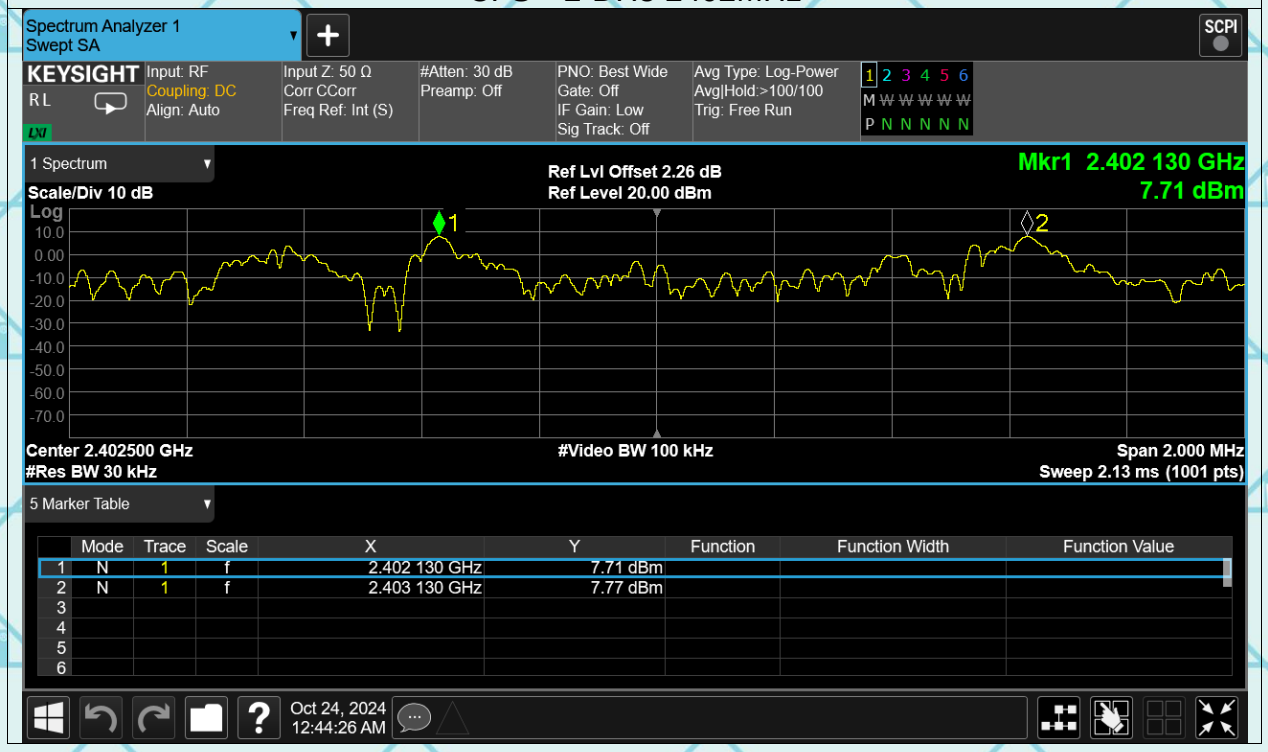
CFS 1-DH5 2441MHz



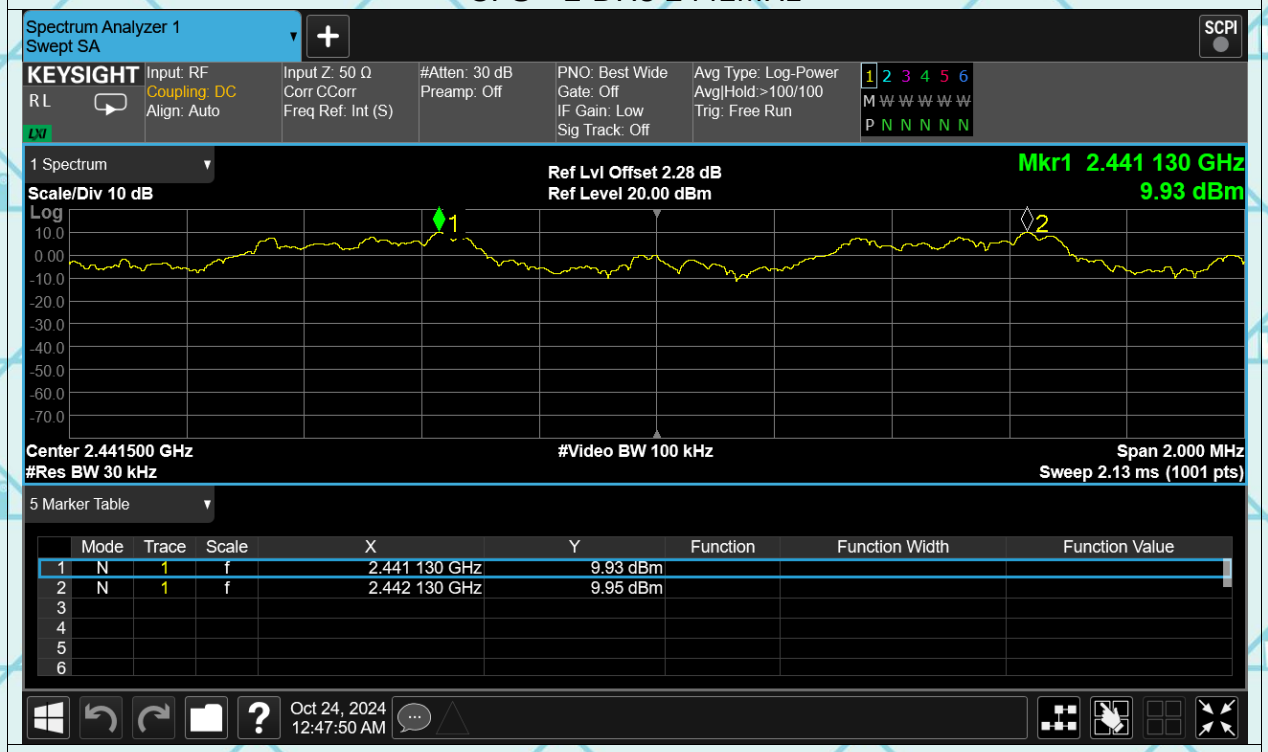
CFS 1-DH5 2480MHz



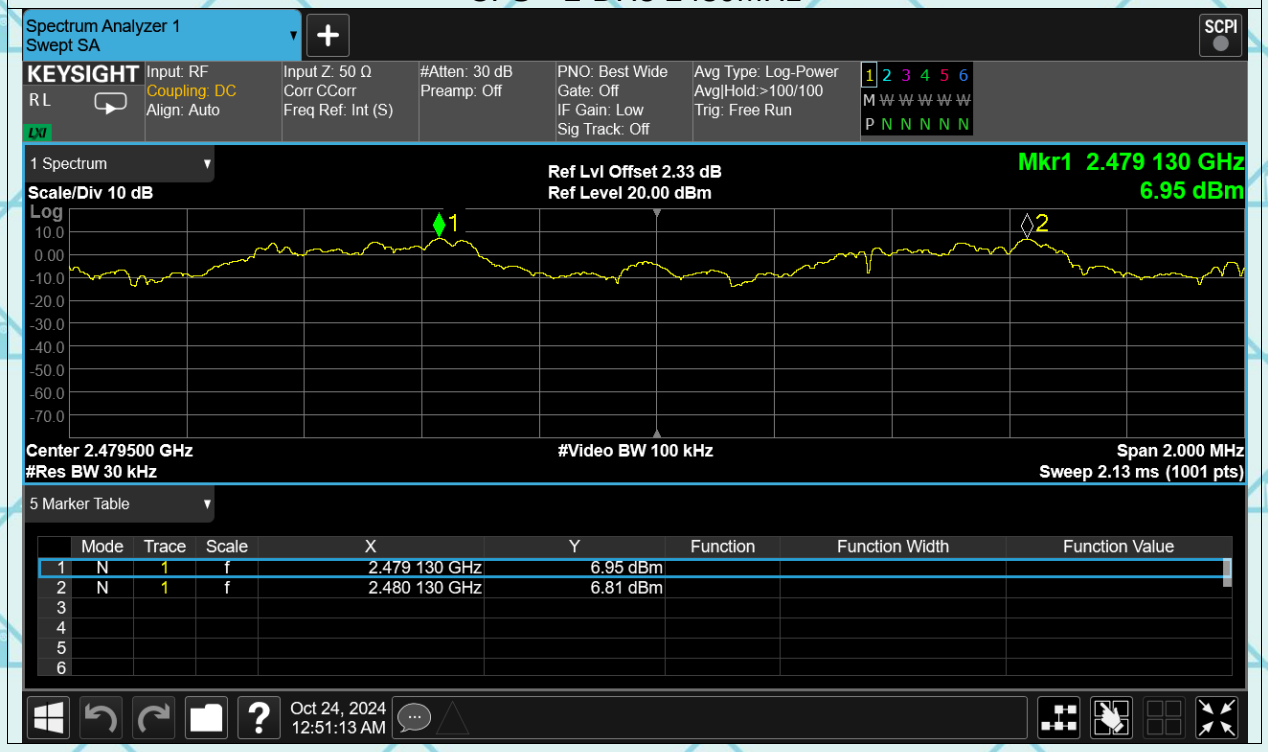
CFS 2-DH5 2402MHz



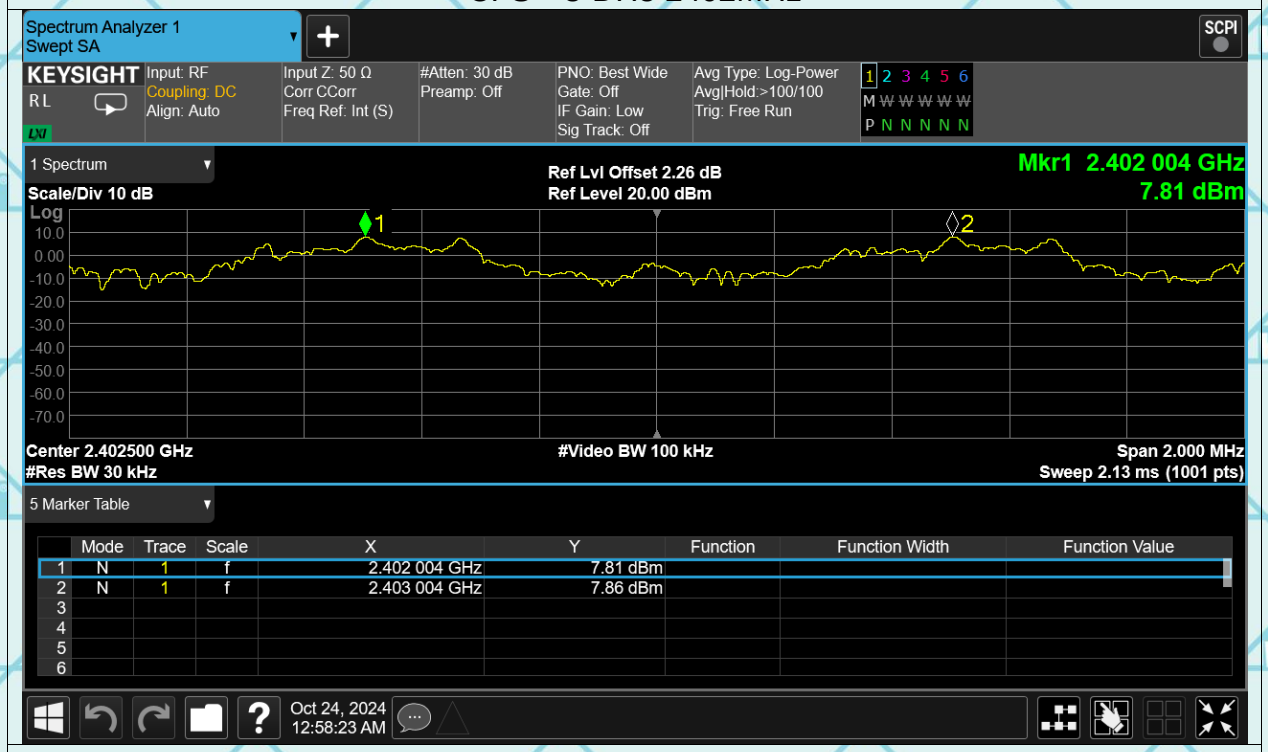
CFS 2-DH5 2441MHz



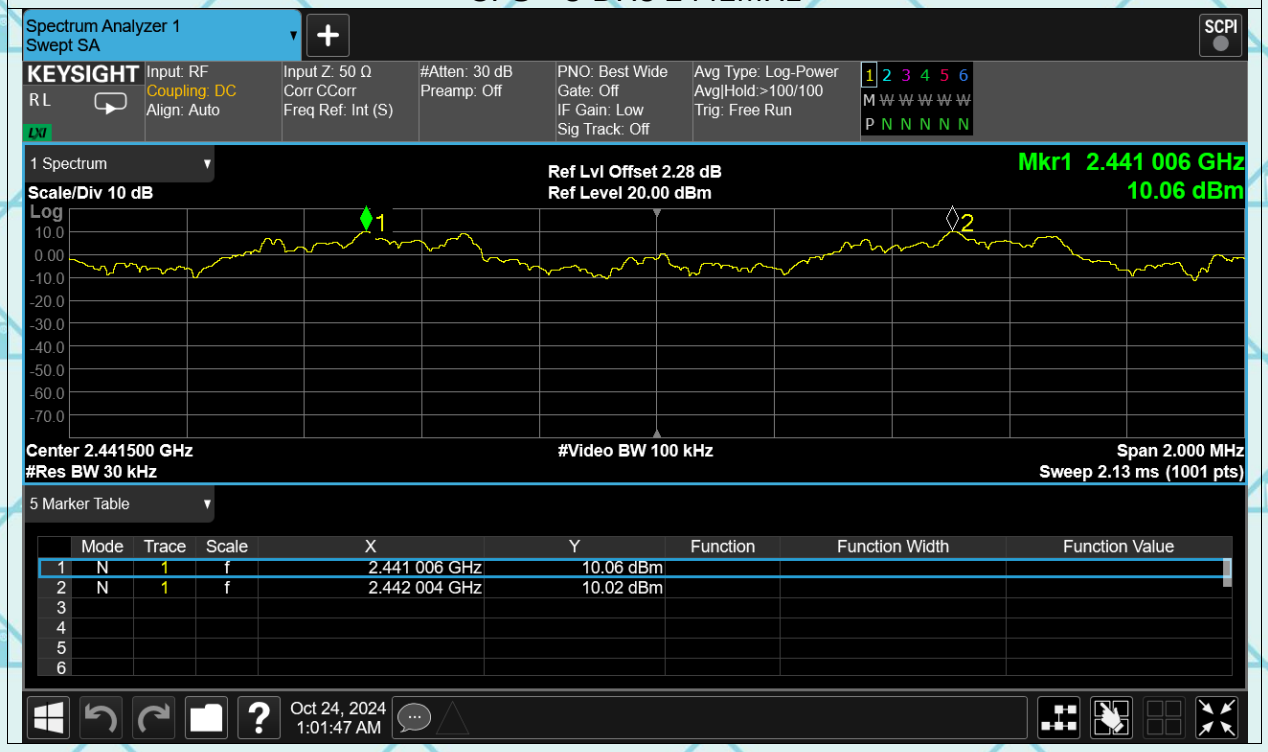
CFS 2-DH5 2480MHz



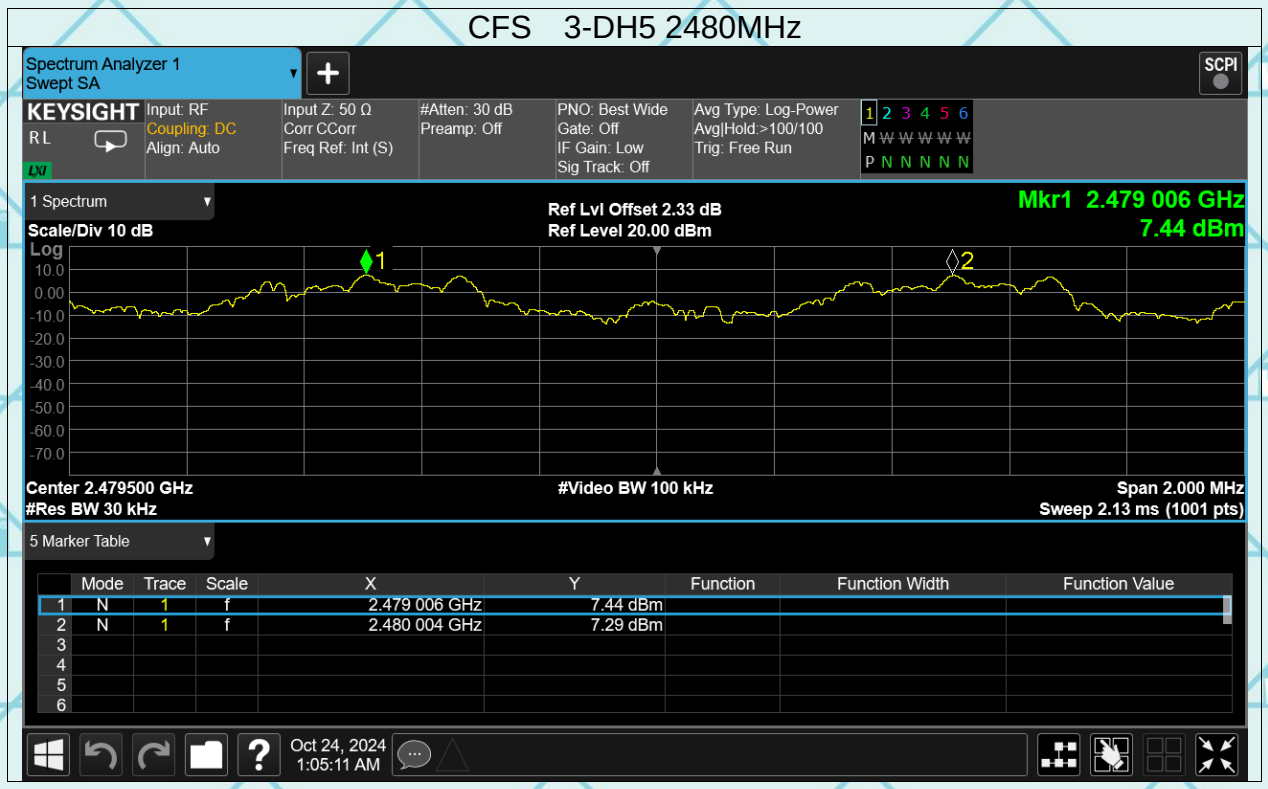
CFS 3-DH5 2402MHz



CFS 3-DH5 2441MHz

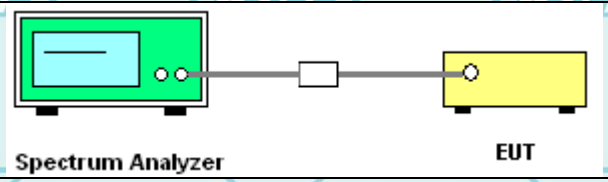


CFS 3-DH5 2480MHz



6.6. Hopping Channel Number

6.6.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.
Test Setup:	
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2014 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

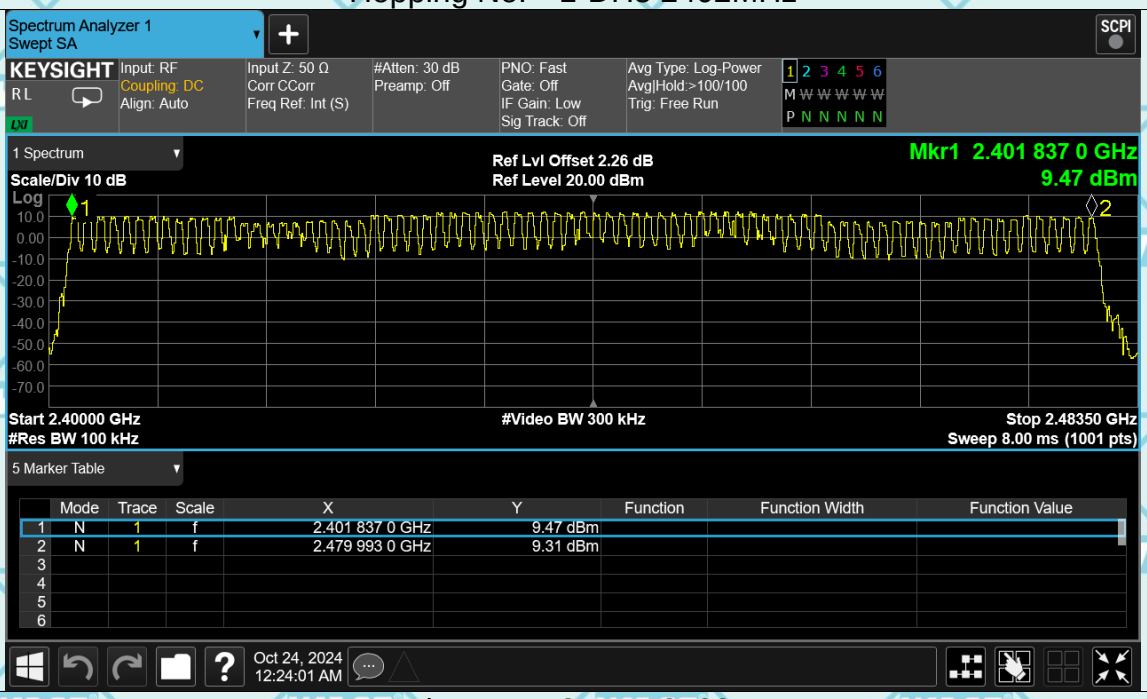
6.6.2. Test data

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

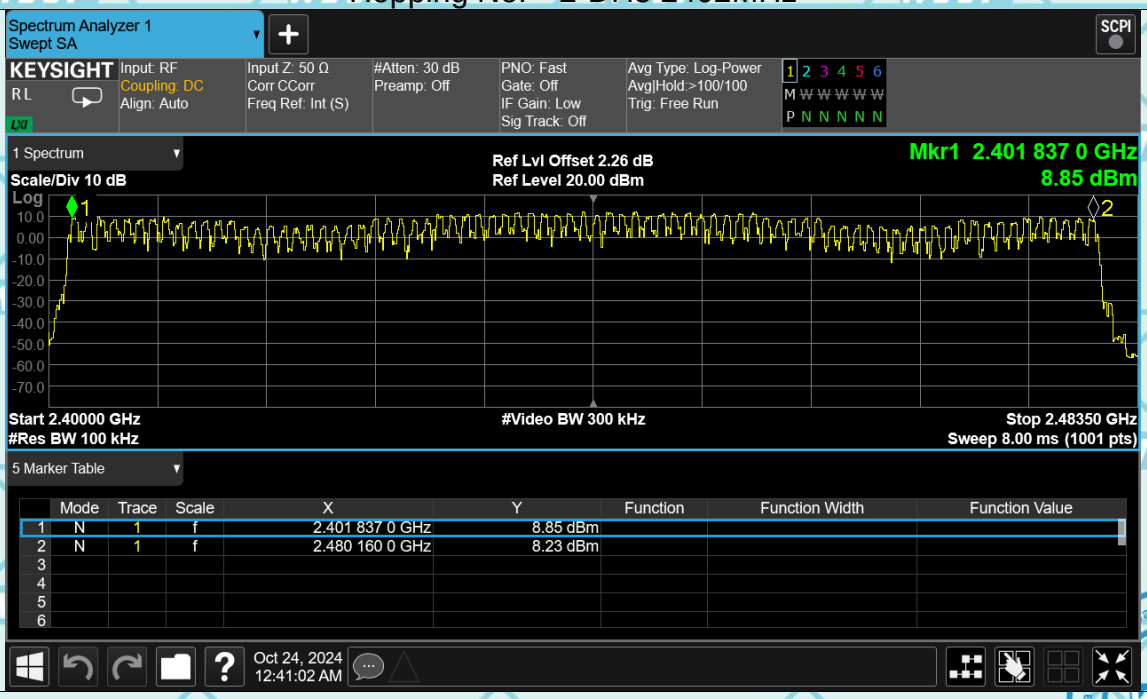
Test plots as follows:

Test Graphs

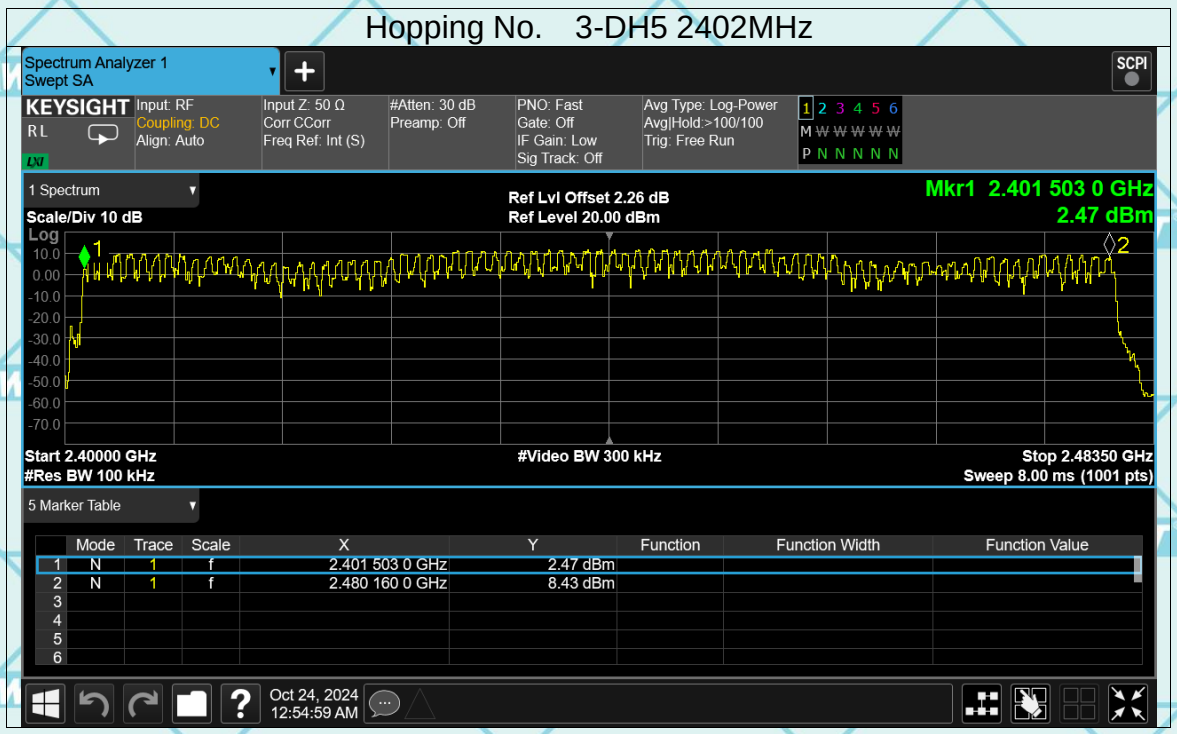
Hopping No. 1-DH5 2402MHz



Hopping No. 2-DH5 2402MHz

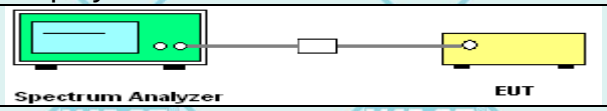


Hopping No. 3-DH5 2402MHz



6.7. Dwell Time

6.7.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(1)
Test Method:	ANSI C63.10:2014
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:	
Test Mode:	Hopping mode
Test Procedure:	1. The testing follows ANSI C63.10:2014 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 ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥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

Mode	Frequency (MHz)	Pulse Time (ms)	Total Dwell Time (ms)	Burst Count	Period Time (ms)	Limit (ms)	Verdict
1-DH1	2402	0.378	117.558	311	31600	400	Pass
1-DH1	2441	0.378	118.692	314	31600	400	Pass
1-DH1	2480	0.376	118.816	316	31600	400	Pass
1-DH3	2402	1.634	269.61	165	31600	400	Pass
1-DH3	2441	1.634	263.074	161	31600	400	Pass
1-DH3	2480	1.633	261.28	160	31600	400	Pass
1-DH5	2402	2.882	319.902	111	31600	400	Pass
1-DH5	2441	2.882	282.436	98	31600	400	Pass
1-DH5	2480	2.882	302.61	105	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 x 79) (s), Hops Over Occupancy Time comes to (1600 / 2 / 79) x (0.4 x 79) = 320 hops

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

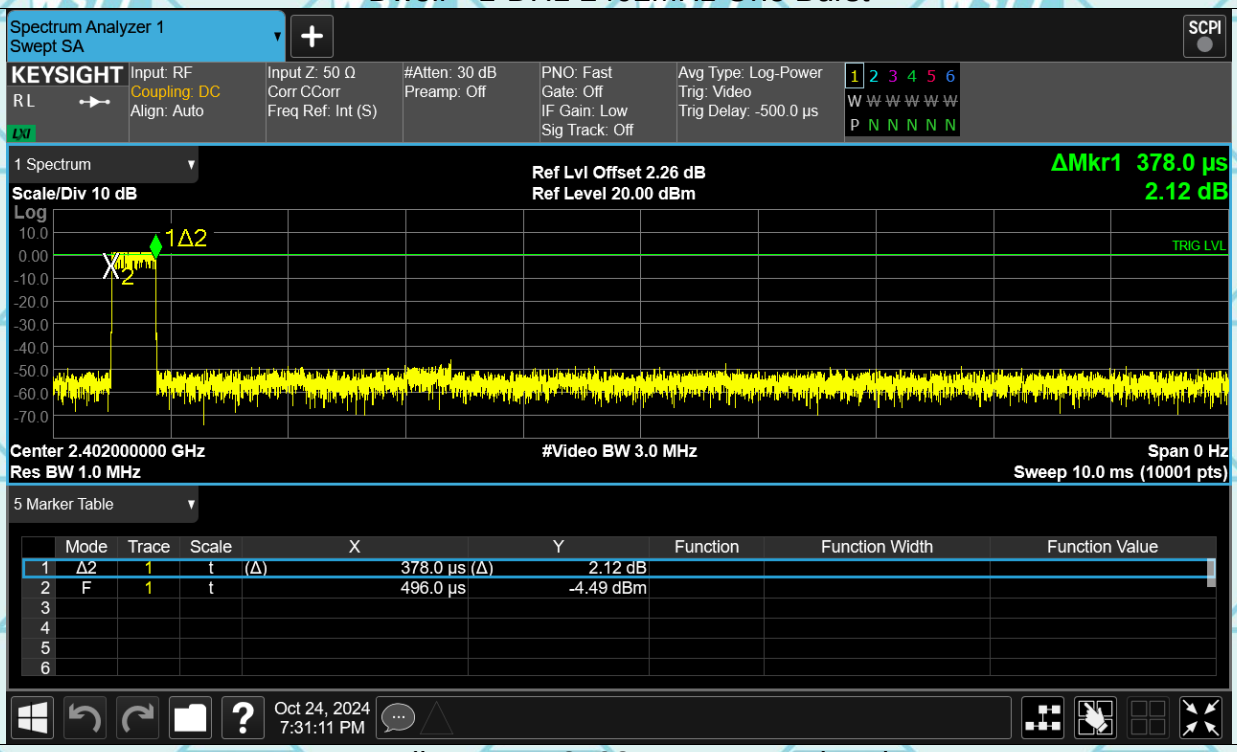
For DH5, With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

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

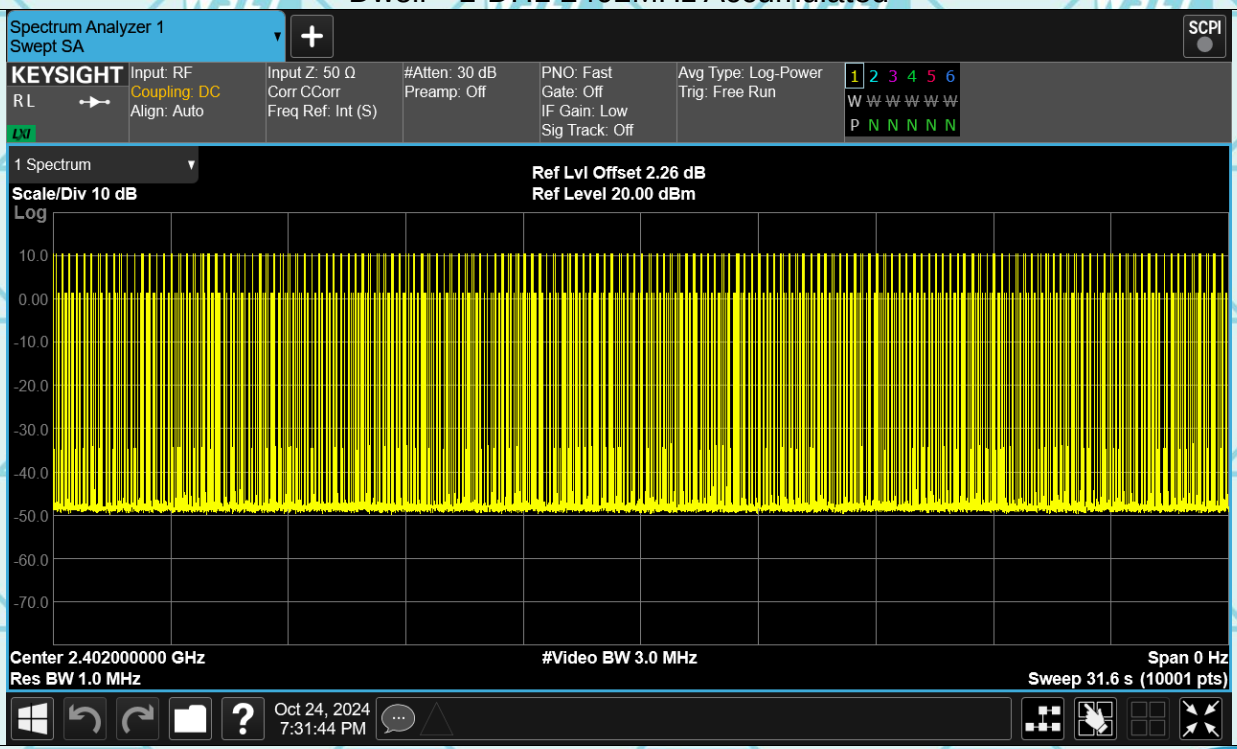
Test plots as follows:

Test Graphs

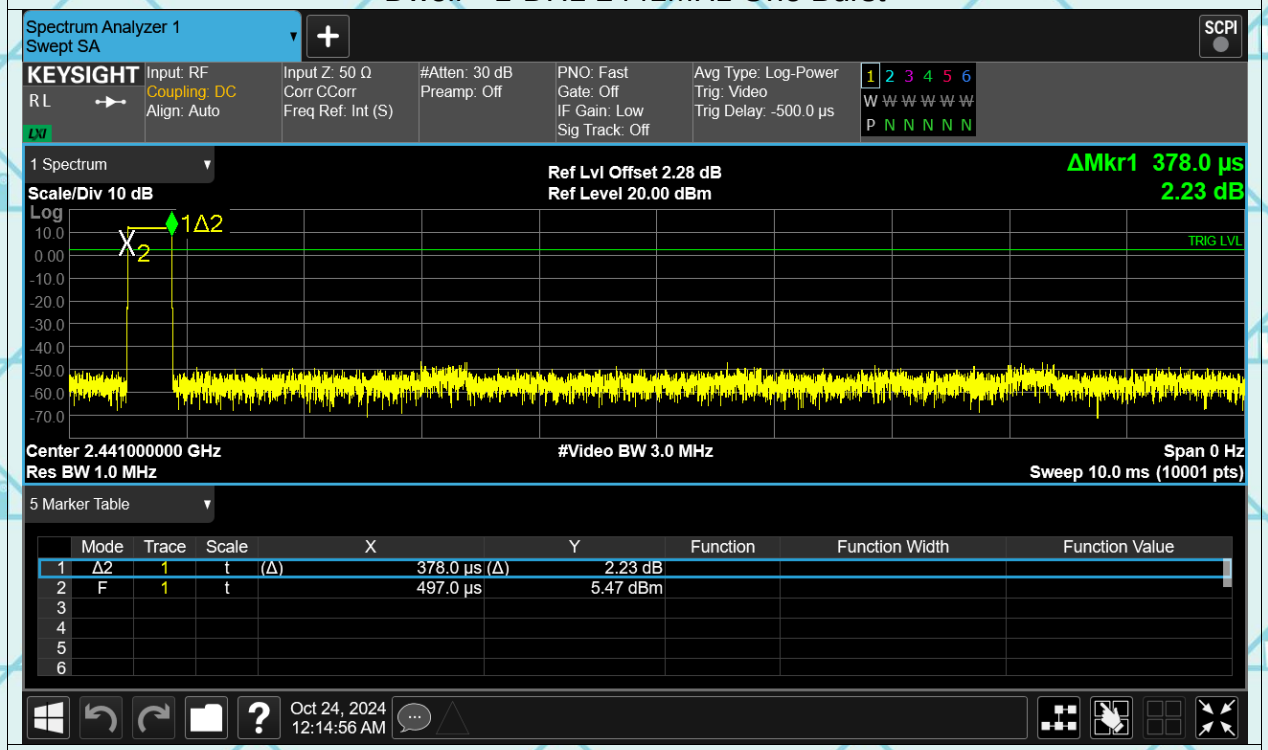
Dwell 1-DH1 2402MHz One Burst



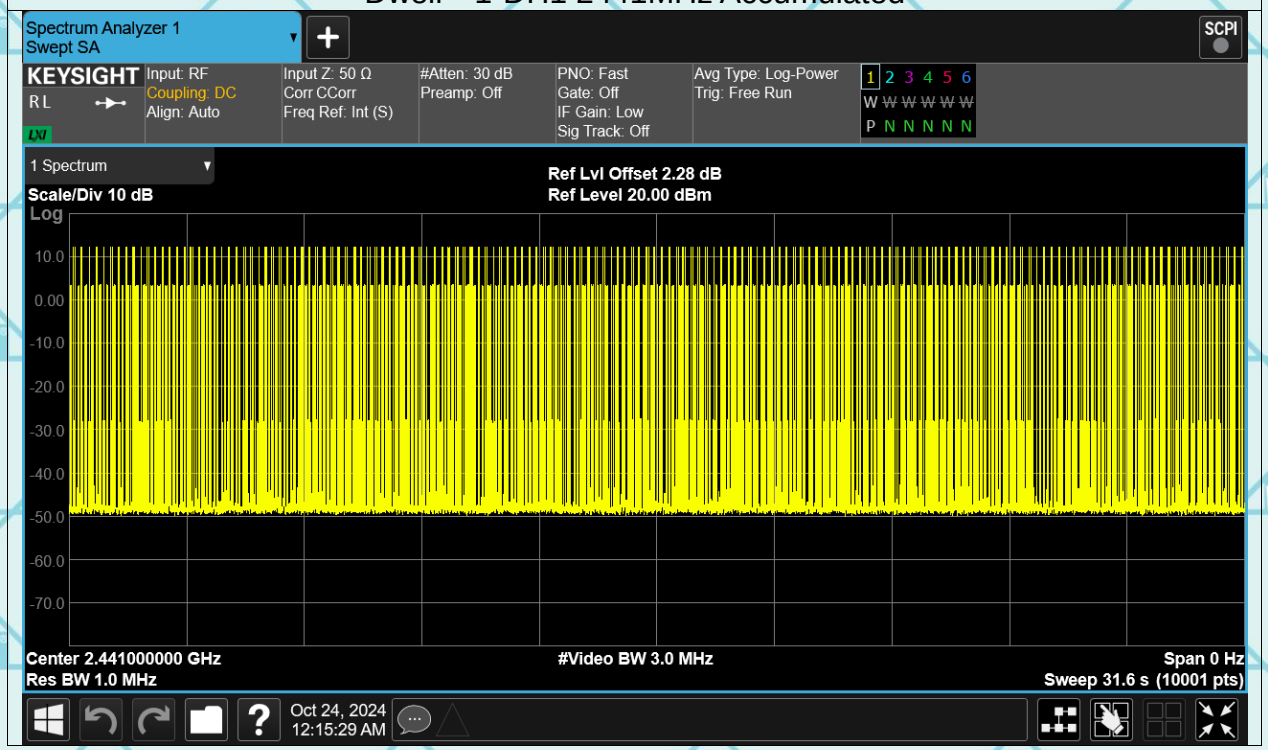
Dwell 1-DH1 2402MHz Accumulated



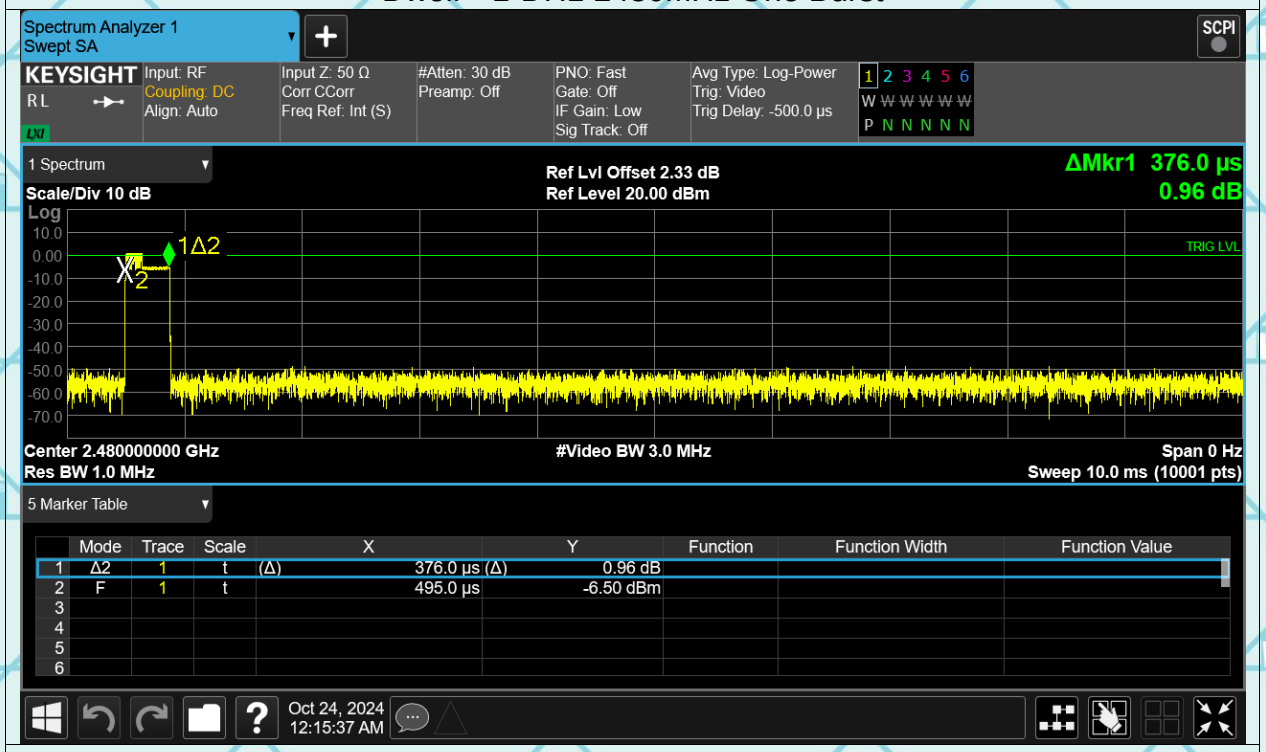
Dwell 1-DH1 2441MHz One Burst



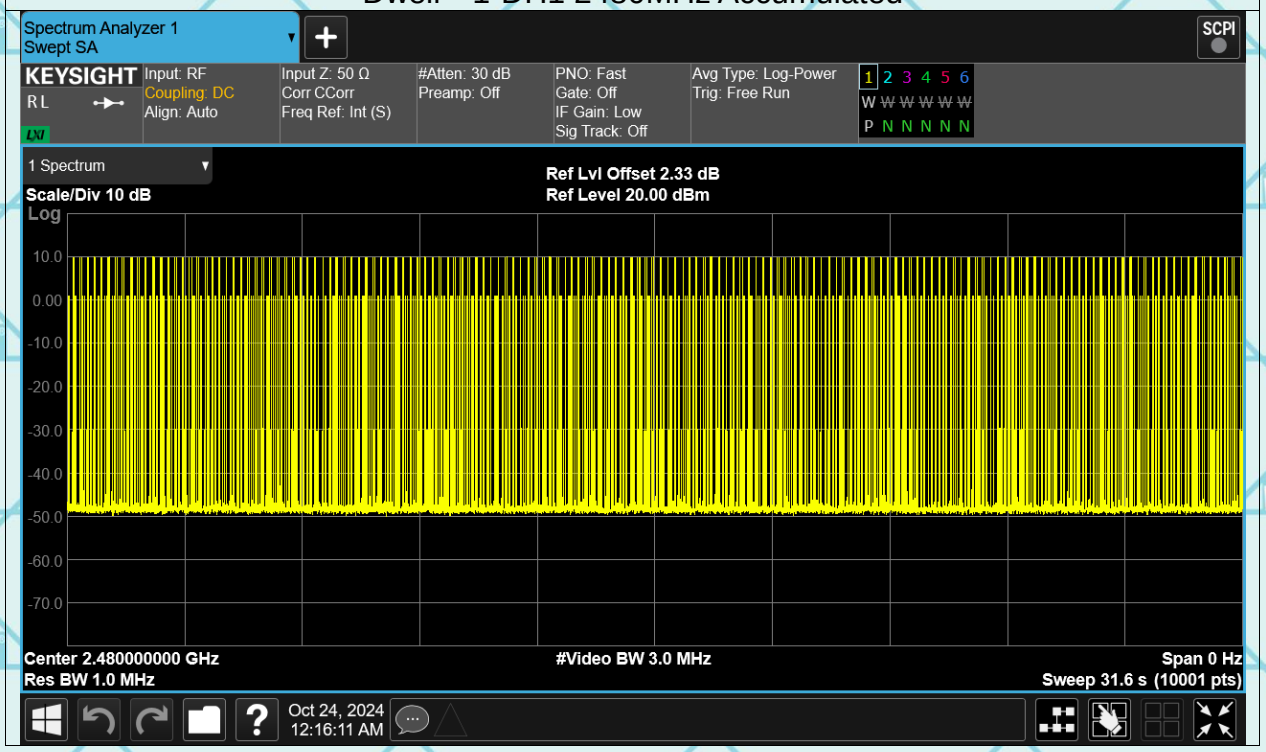
Dwell 1-DH1 2441MHz Accumulated



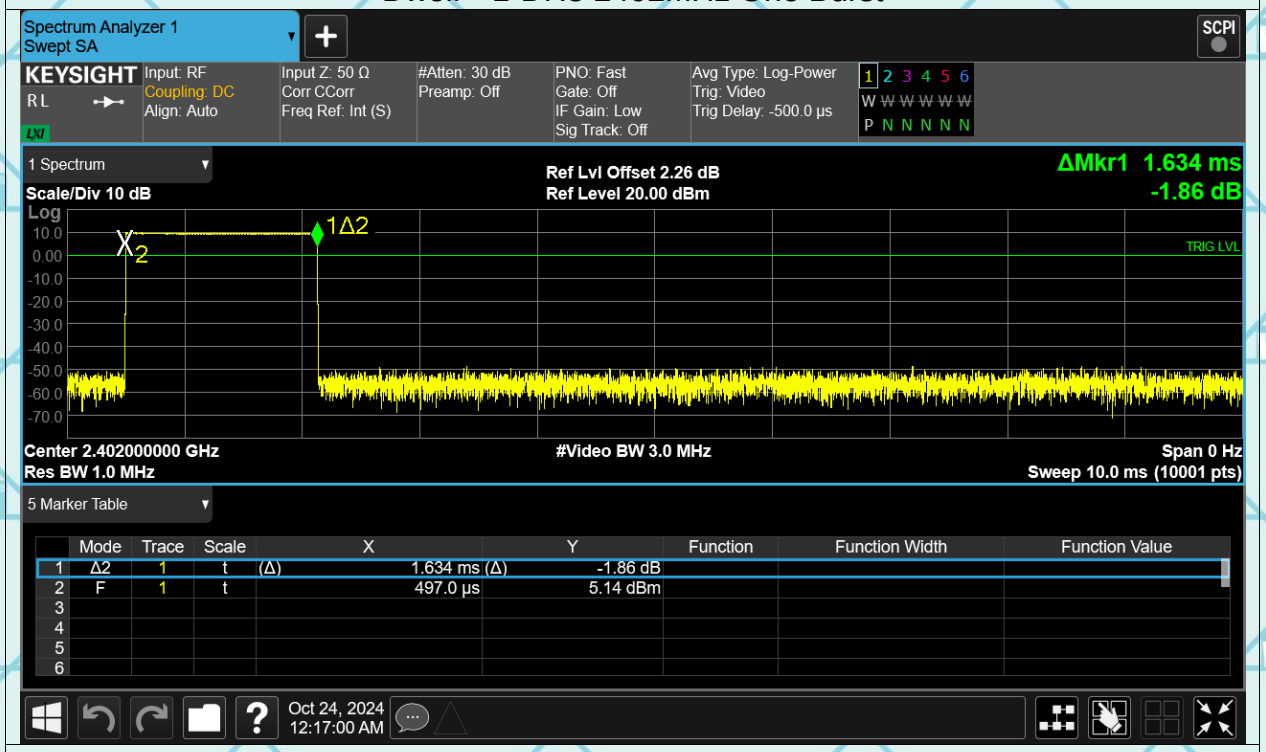
Dwell 1-DH1 2480MHz One Burst



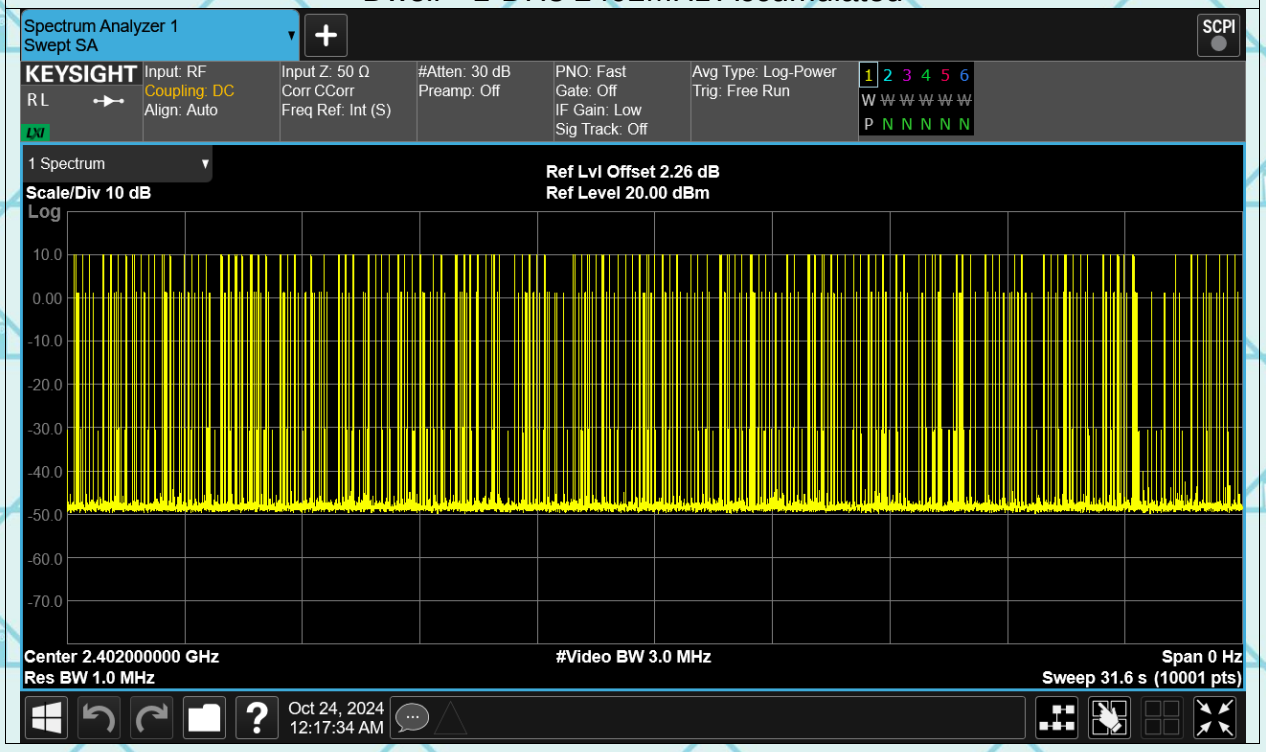
Dwell 1-DH1 2480MHz Accumulated



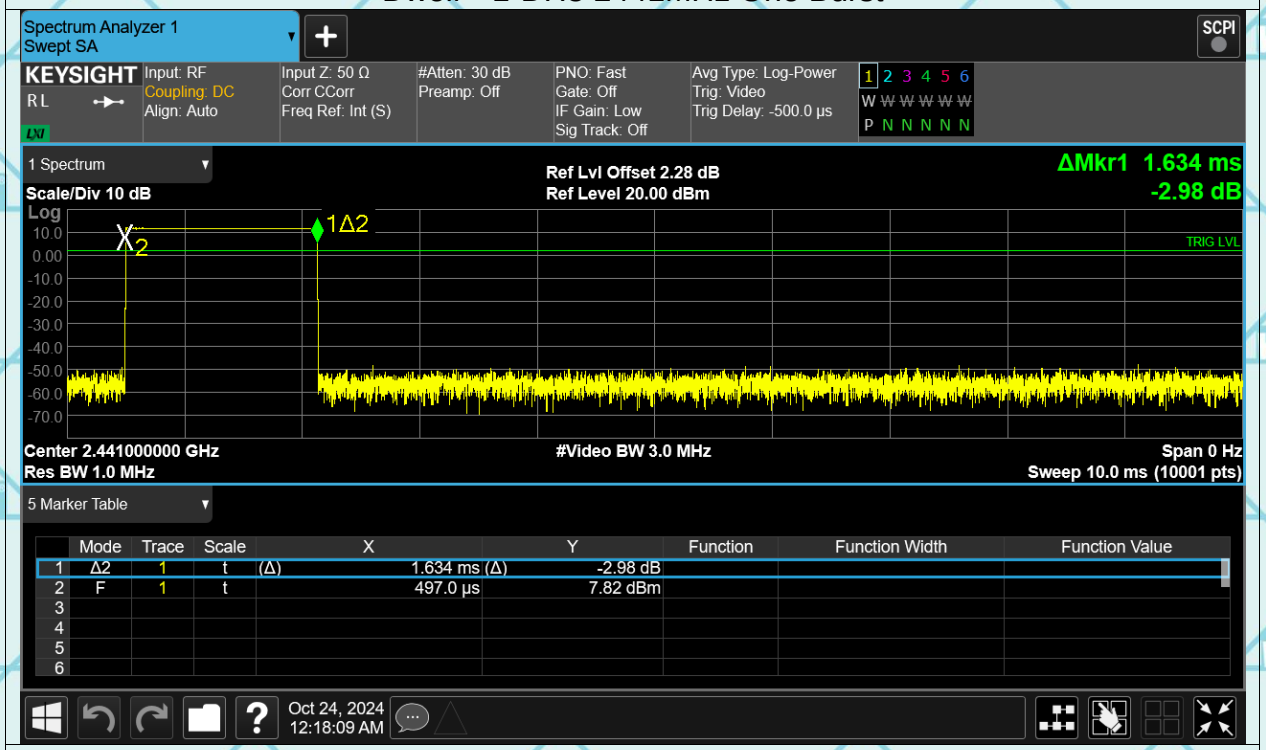
Dwell 1-DH3 2402MHz One Burst



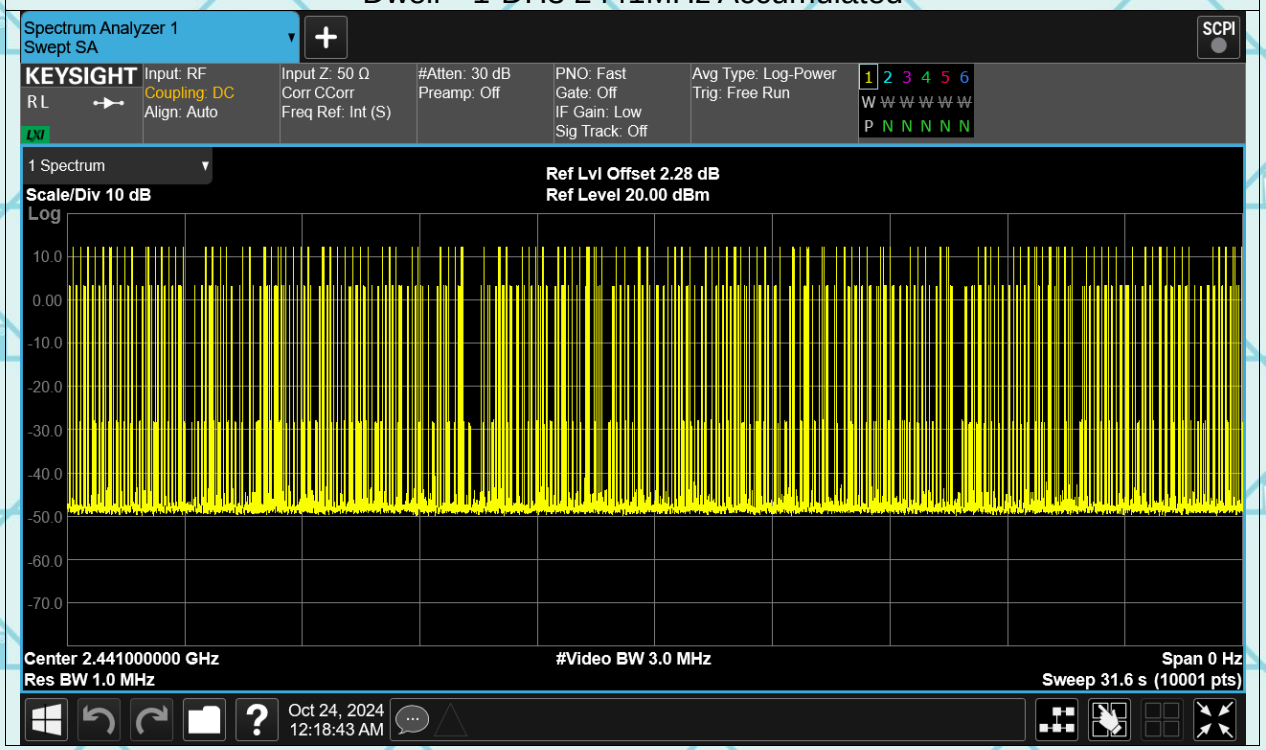
Dwell 1-DH3 2402MHz Accumulated



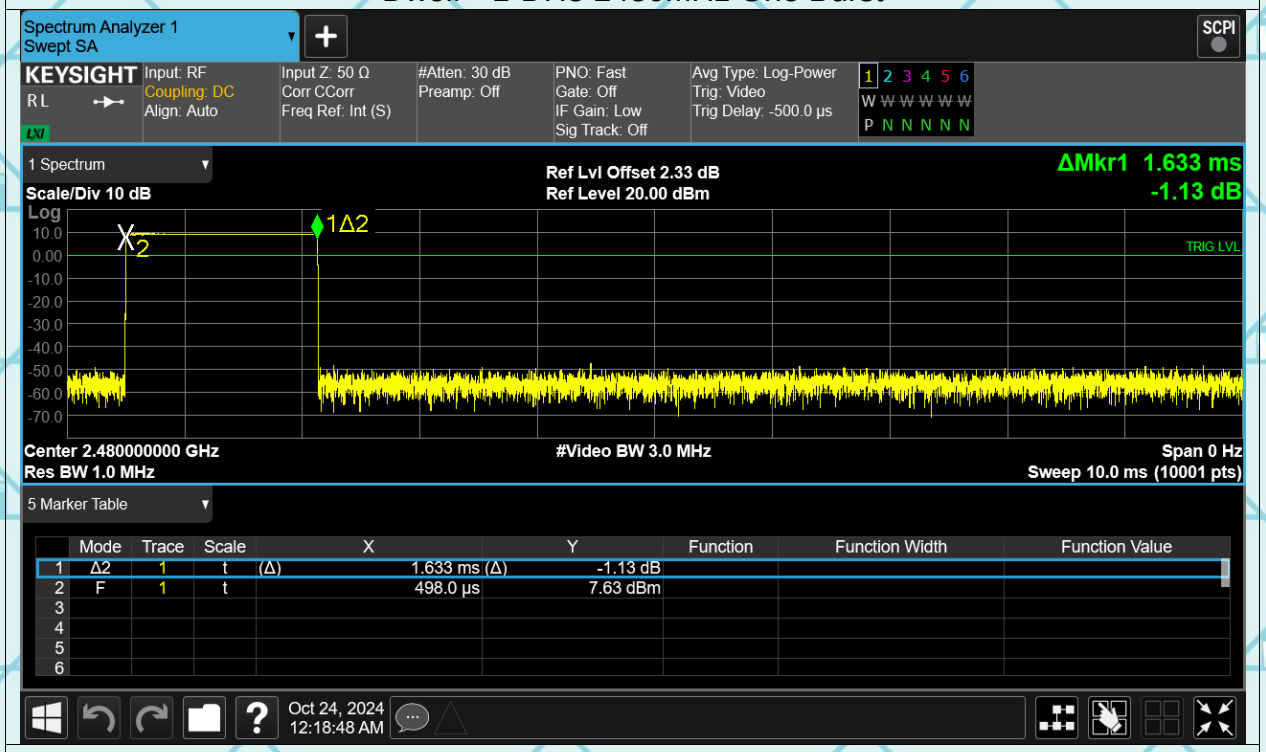
Dwell 1-DH3 2441MHz One Burst



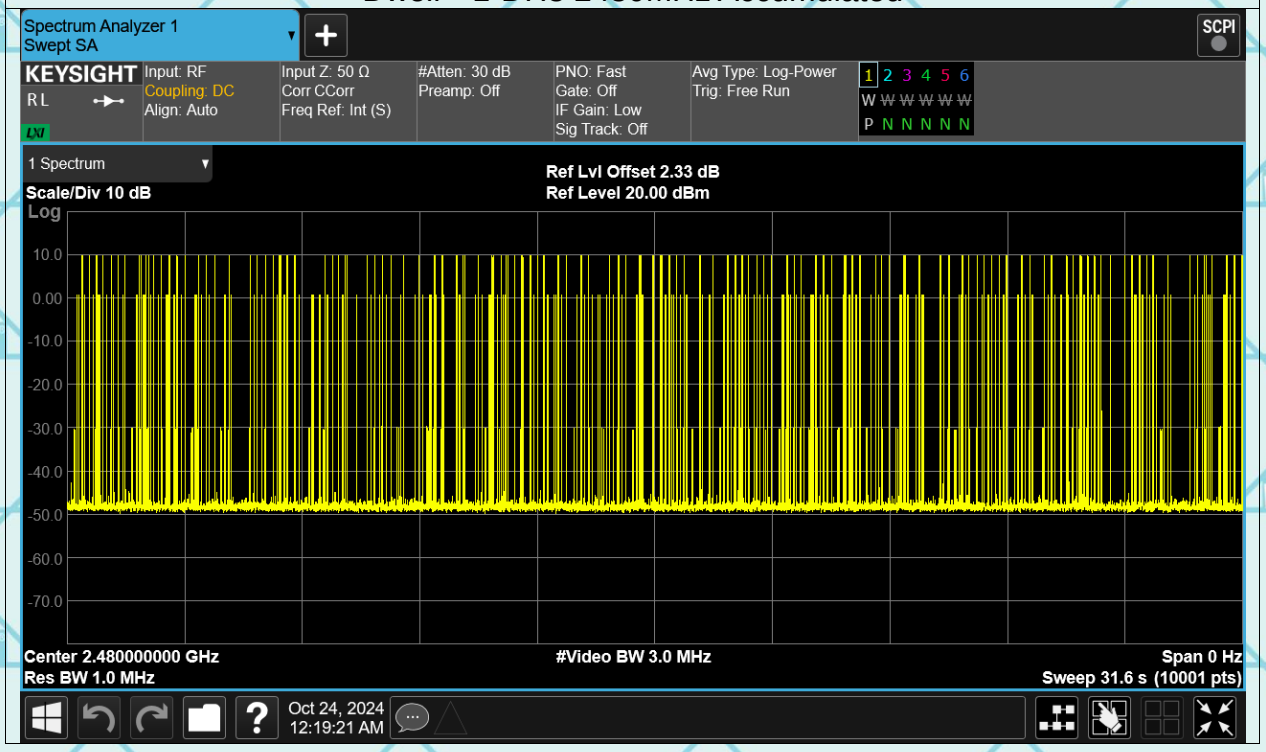
Dwell 1-DH3 2441MHz Accumulated



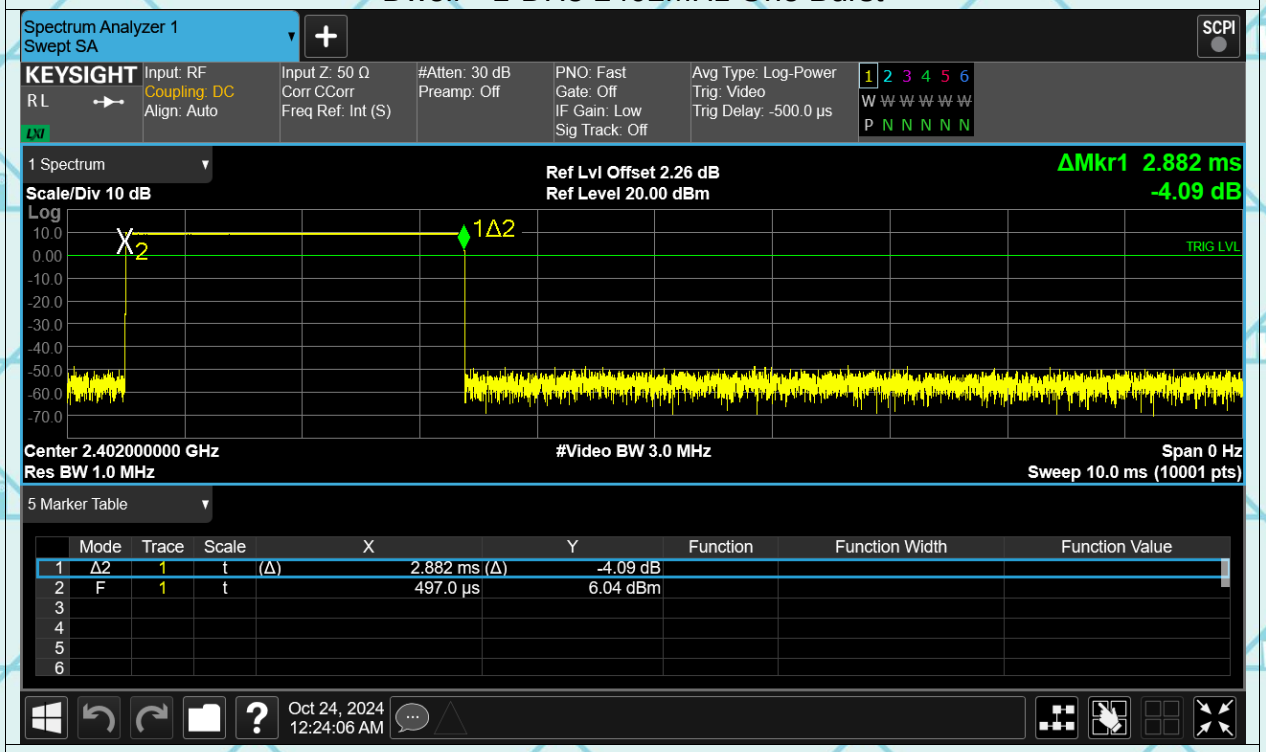
Dwell 1-DH3 2480MHz One Burst



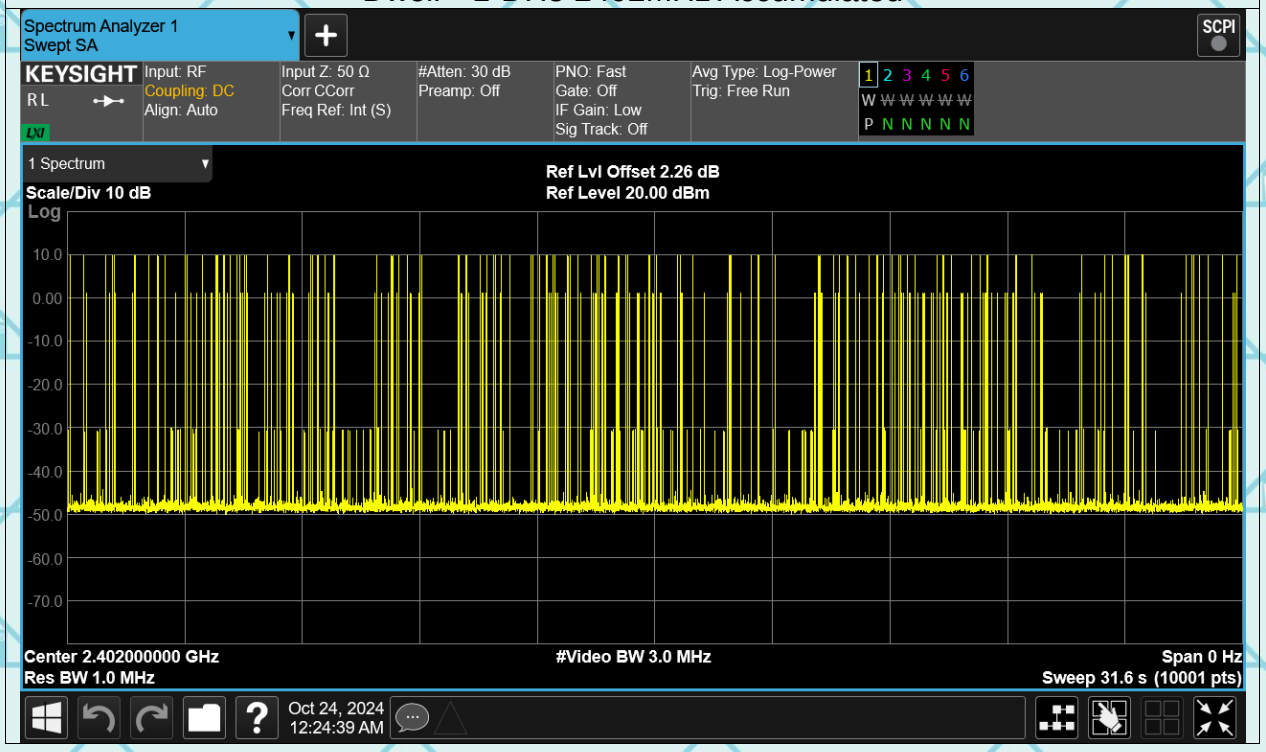
Dwell 1-DH3 2480MHz Accumulated



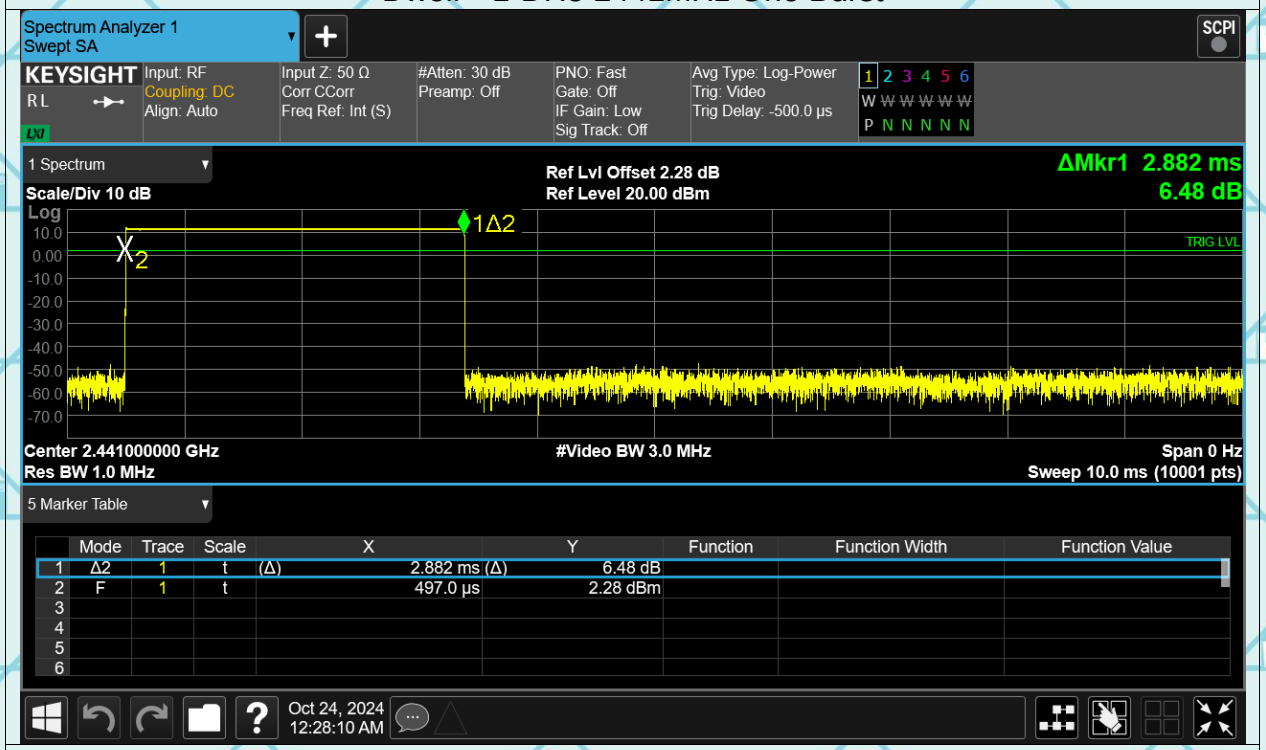
Dwell 1-DH5 2402MHz One Burst



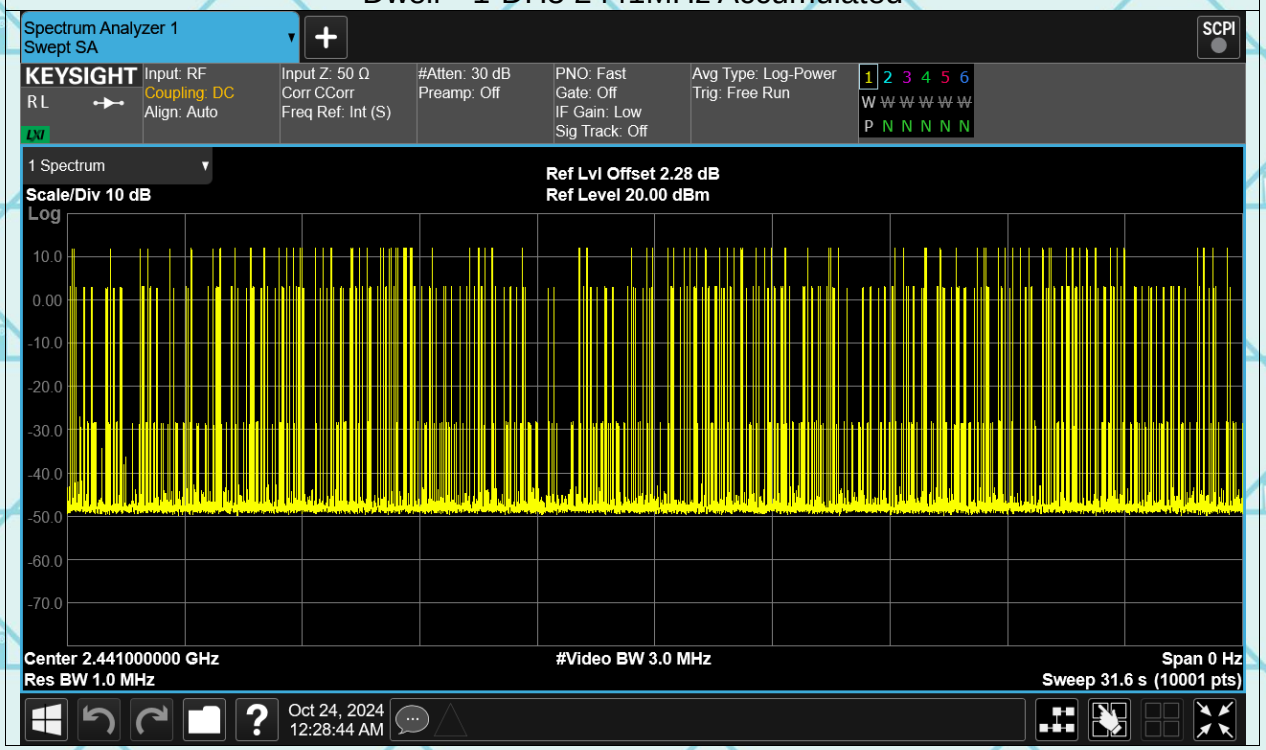
Dwell 1-DH5 2402MHz Accumulated



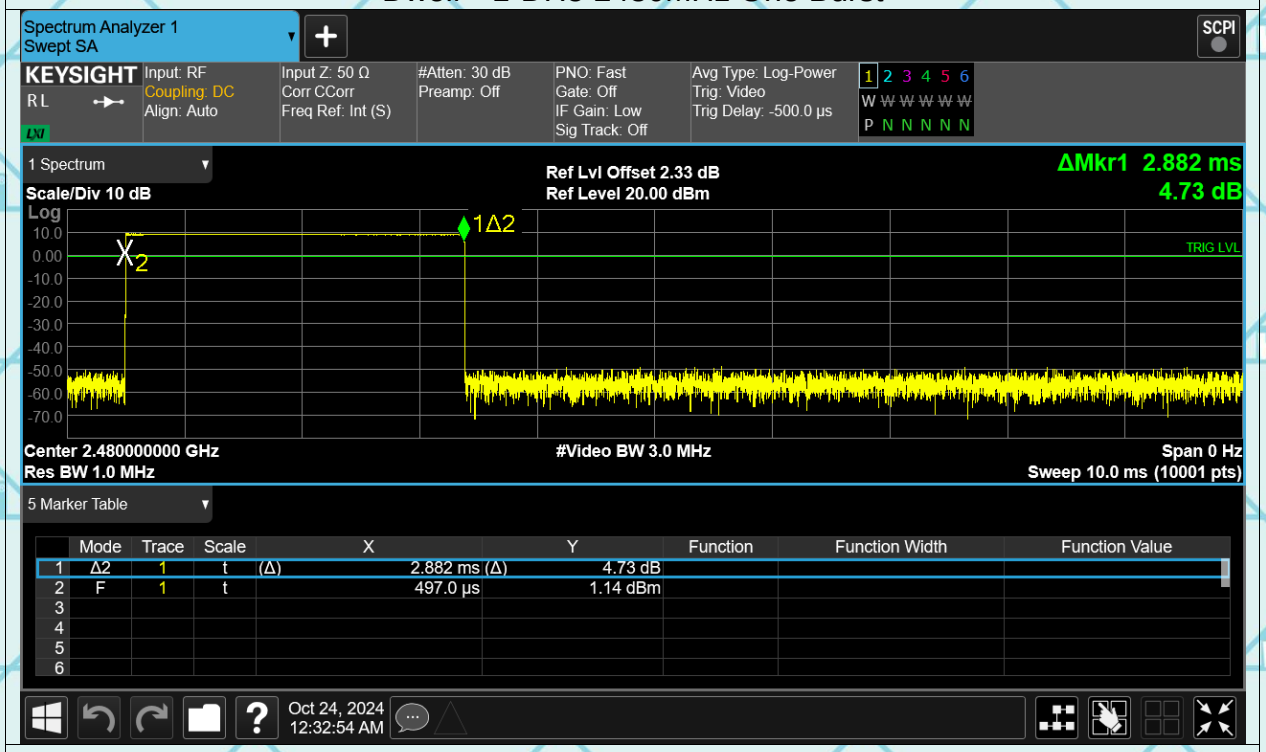
Dwell 1-DH5 2441MHz One Burst



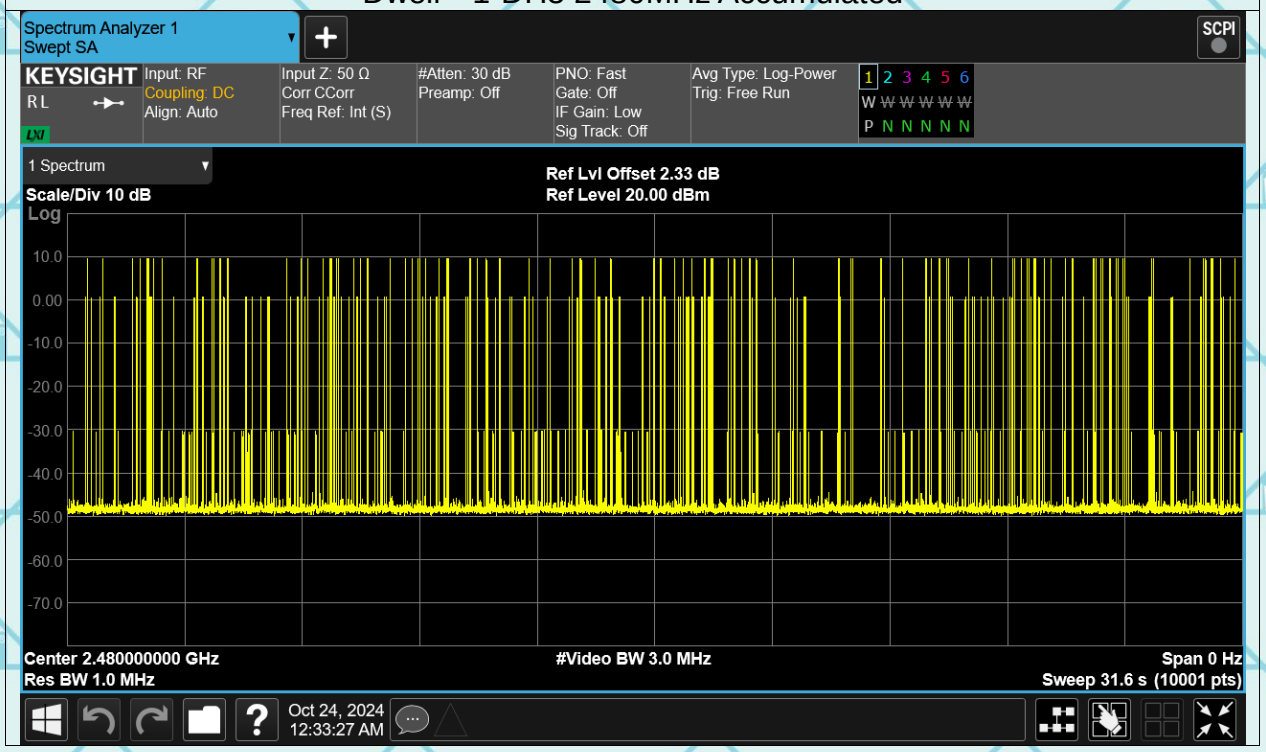
Dwell 1-DH5 2441MHz Accumulated



Dwell 1-DH5 2480MHz One Burst



Dwell 1-DH5 2480MHz Accumulated



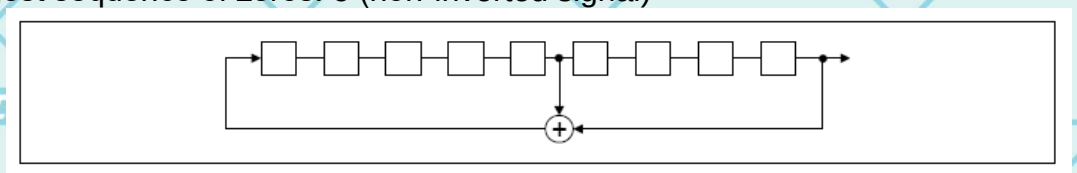
6.8. Pseudorandom Frequency Hopping Sequence

Test Requirement:	FCC Part15 C Section 15.247 (a)(1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
Alternatively. 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, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

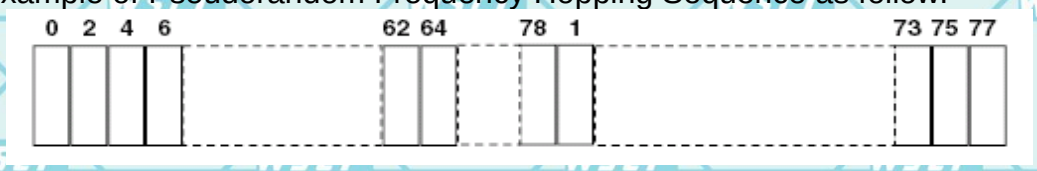
EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.
• Number of shift register stages: 9
• Length of pseudo-random sequence: 2^9 -1 = 511 bits
• Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

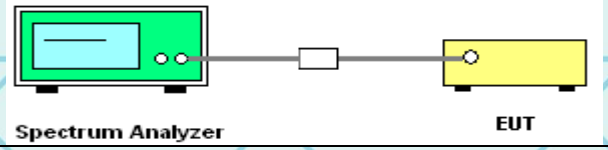
An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.
The system receivers have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

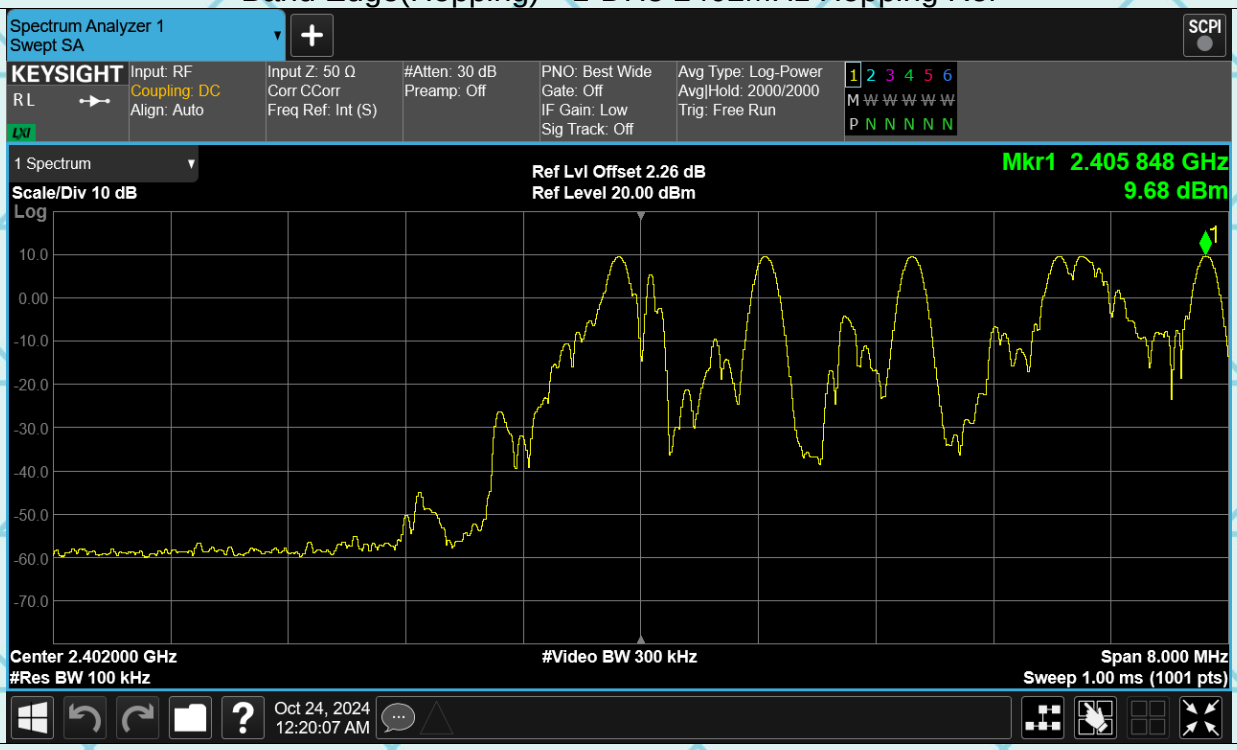
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of ANSI C63.10:2014 Measurement Guidelines. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. 4. Enable hopping function of the EUT and then repeat step 2 and 3. 5. Measure and record the results in the test report.
Test Result:	PASS

Test Data

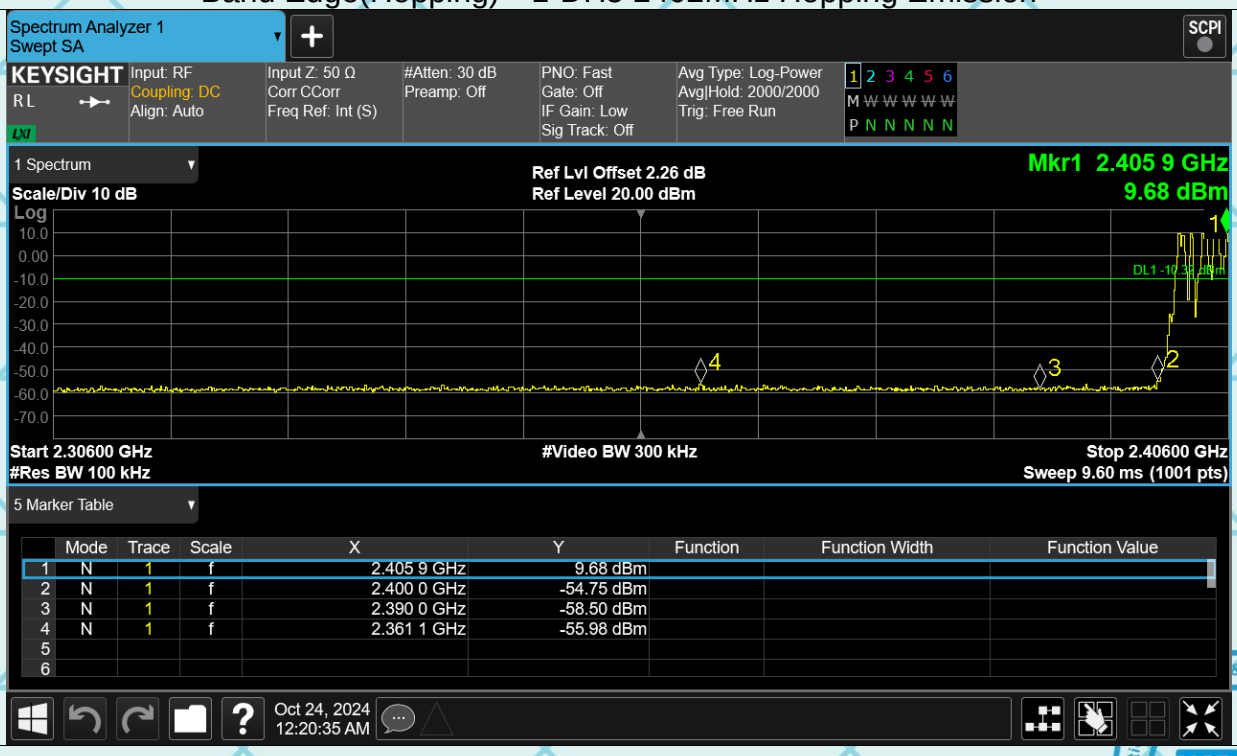
GFSK Modulation (the worst case)

Test Graphs

Band Edge(Hopping) 1-DH5 2402MHz Hopping Ref

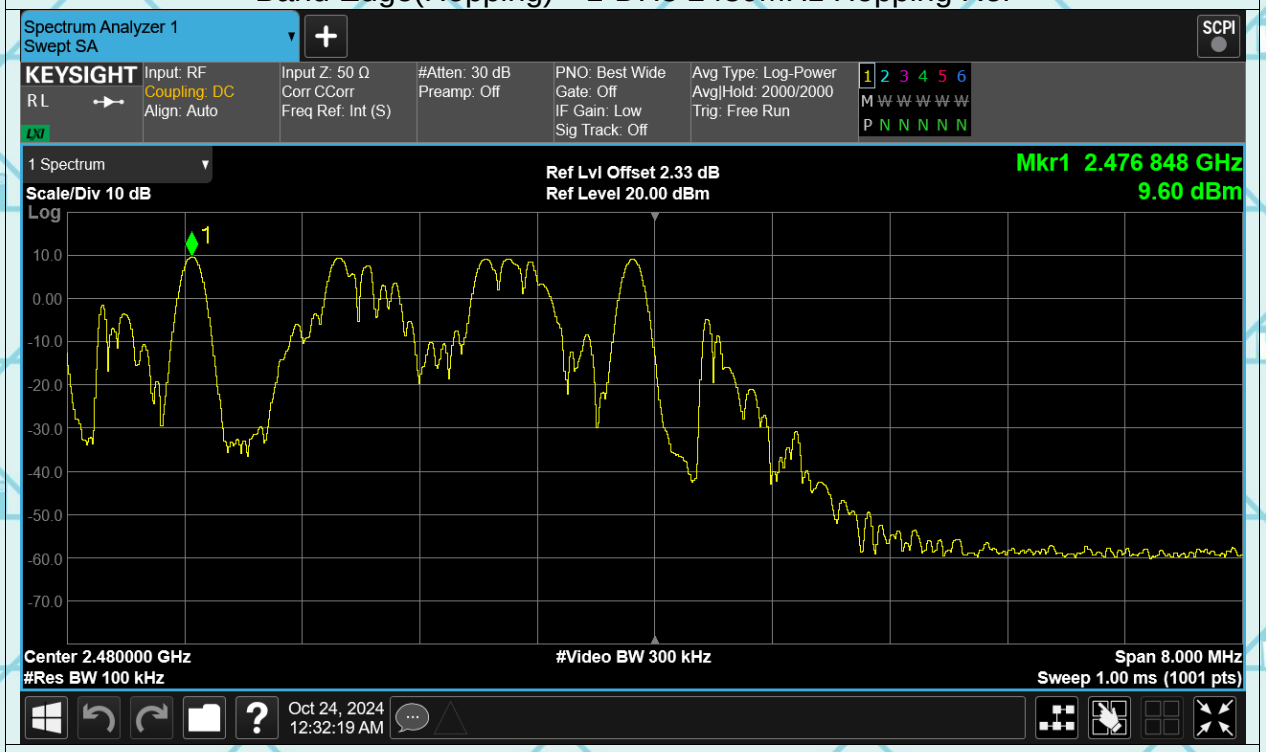


Band Edge(Hopping) 1-DH5 2402MHz Hopping Emission

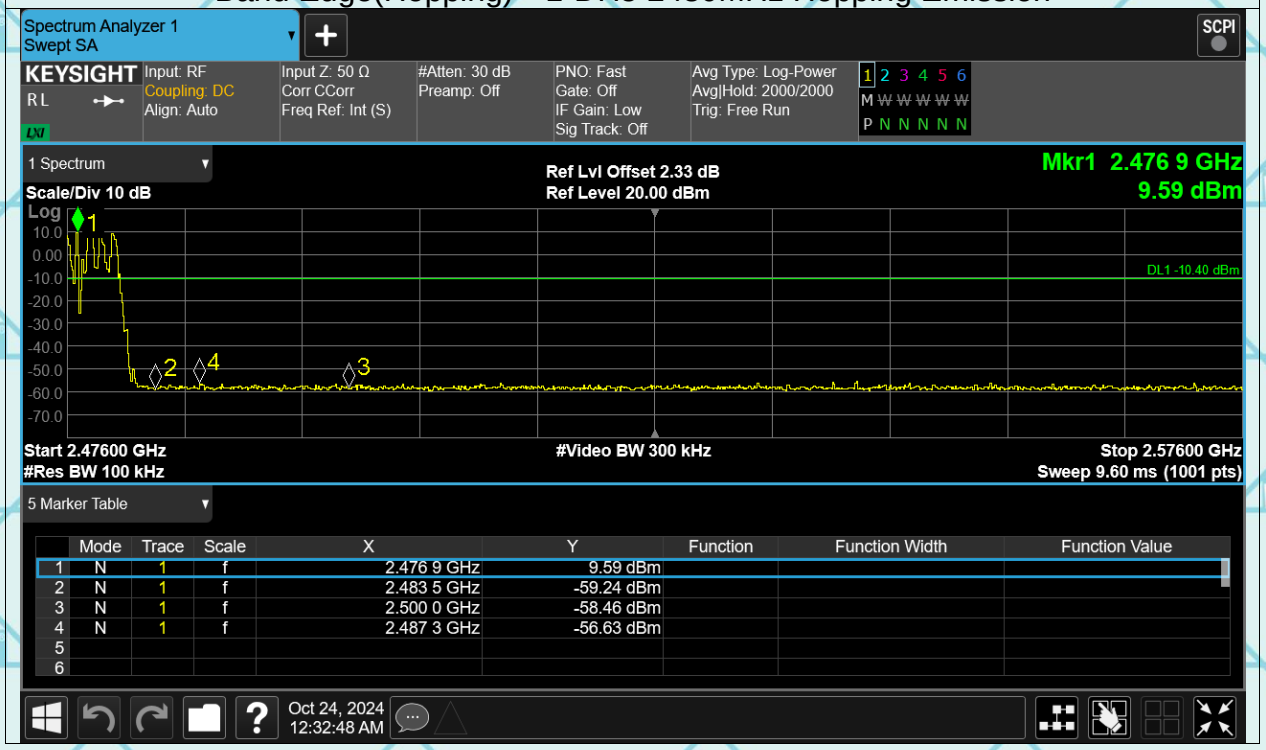


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.405 9 GHz	9.68 dBm			
2	N	1	f	2.400 0 GHz	-54.75 dBm			
3	N	1	f	2.390 0 GHz	-58.50 dBm			
4	N	1	f	2.361 1 GHz	-55.98 dBm			
5								
6								

Band Edge(Hopping) 1-DH5 2480MHz Hopping Ref



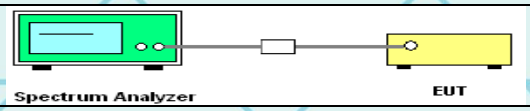
Band Edge(Hopping) 1-DH5 2480MHz Hopping Emission



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.476 9 GHz	9.59 dBm			
2	N	1	f	2.483 5 GHz	-59.24 dBm			
3	N	1	f	2.500 0 GHz	-58.46 dBm			
4	N	1	f	2.487 3 GHz	-56.63 dBm			
5								
6								

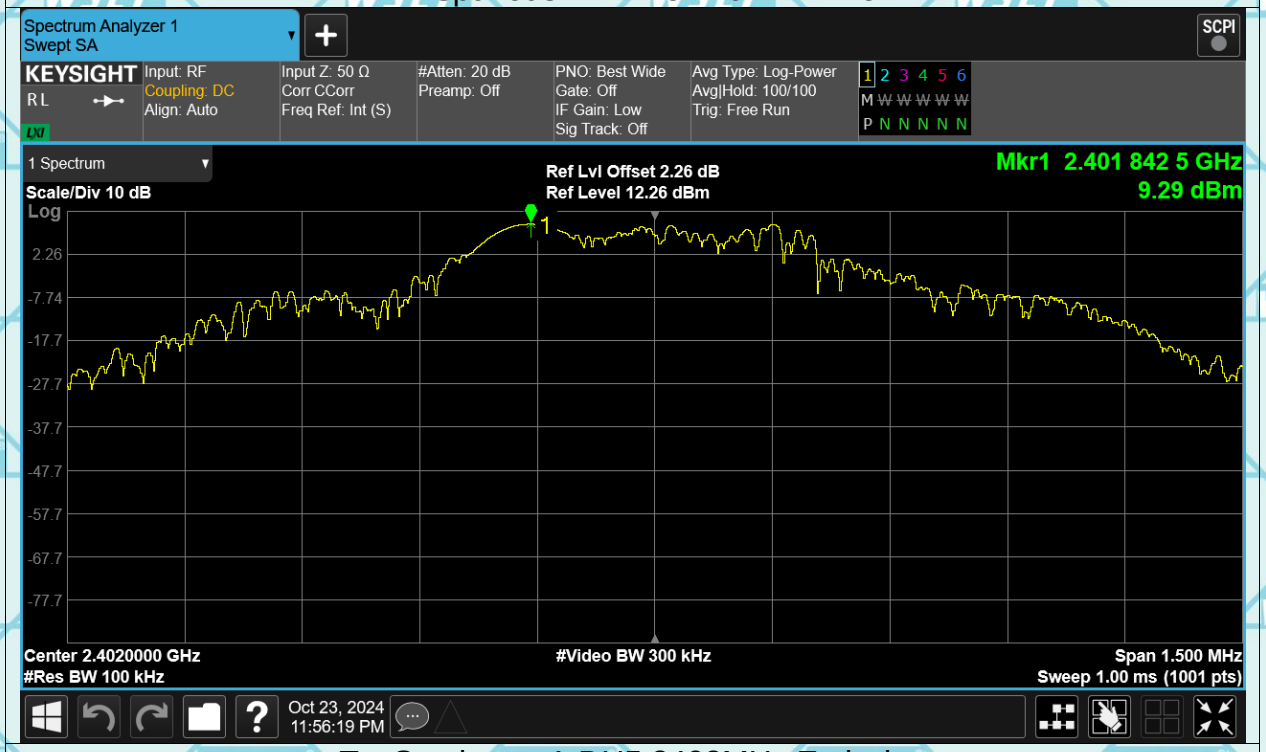
6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

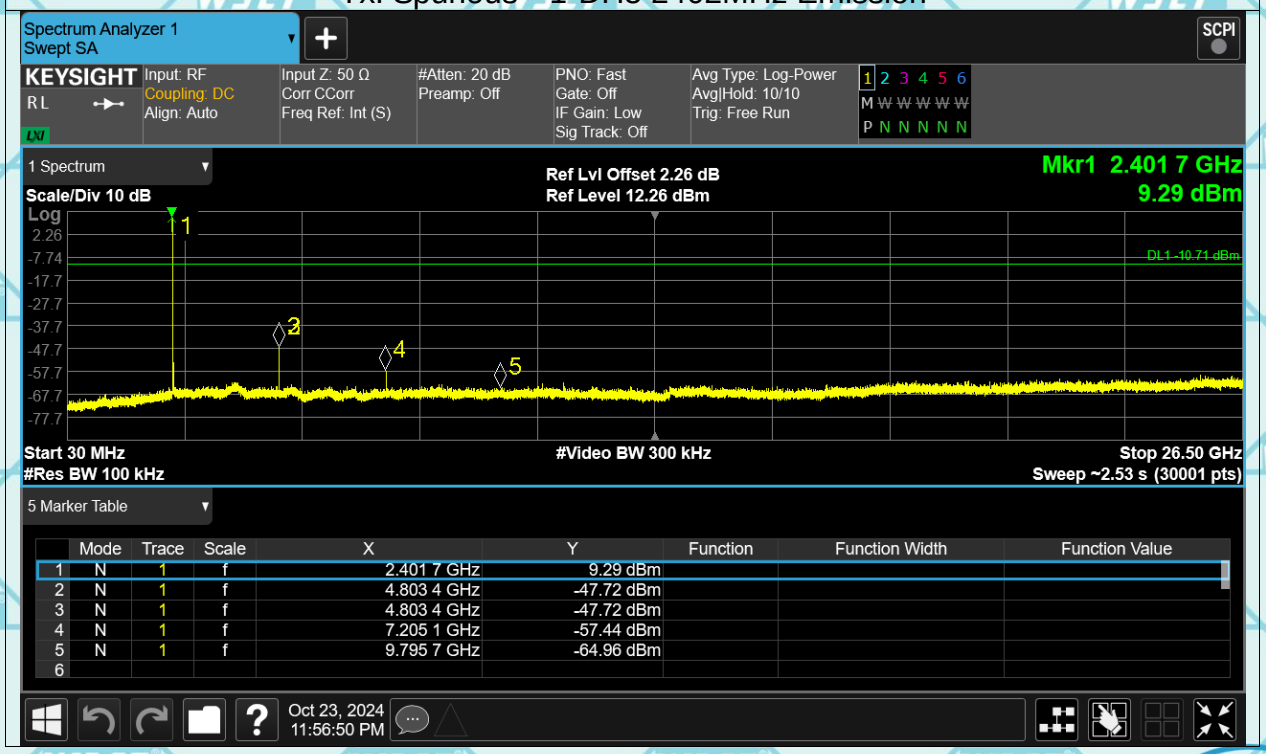
Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10:2014
Limit:	In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fall in the restricted bands must also comply with the radiated emission limits.
Test Setup:	
Test Mode:	Transmitting mode with modulation
Test Procedure:	1. The testing follows the guidelines in Spurious RF Conducted Emissions of ANSI C63.10:2014 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. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. 5. Measure and record the results in the test report. 6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
Test Result:	PASS

Test Graphs

Tx. Spurious 1-DH5 2402MHz Ref

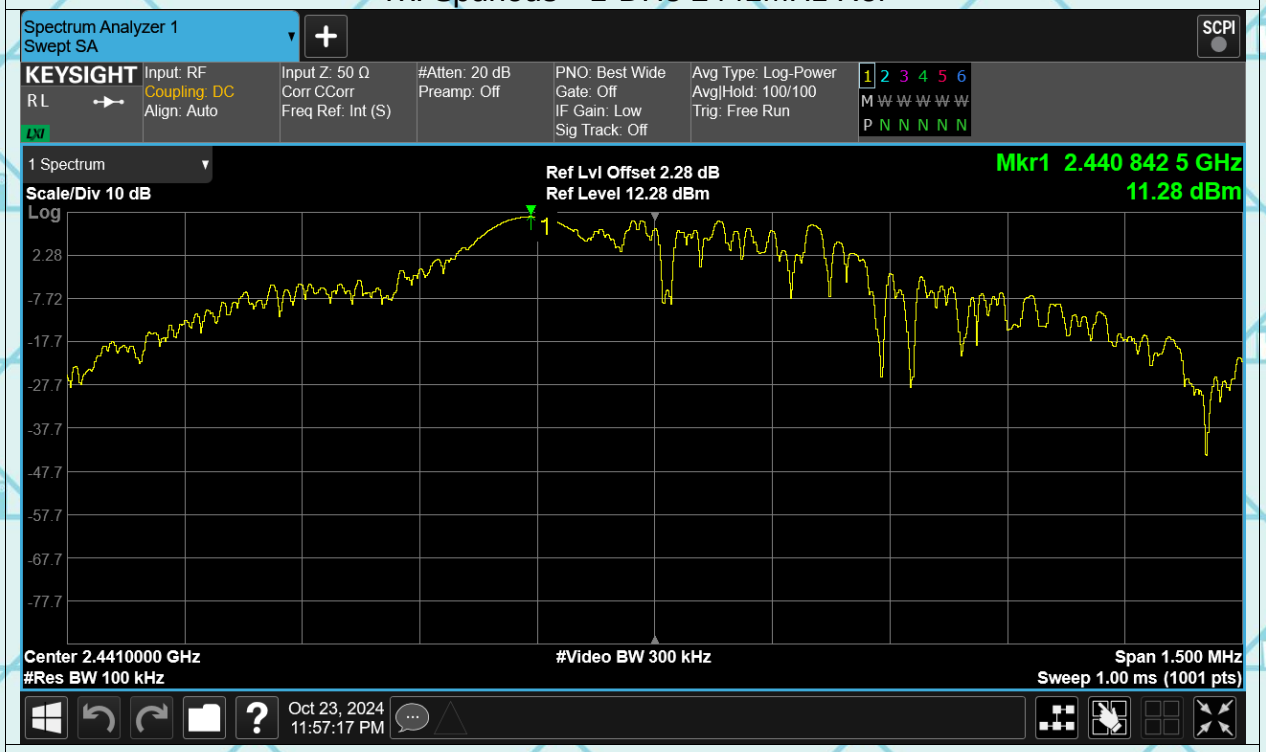


Tx. Spurious 1-DH5 2402MHz Emission

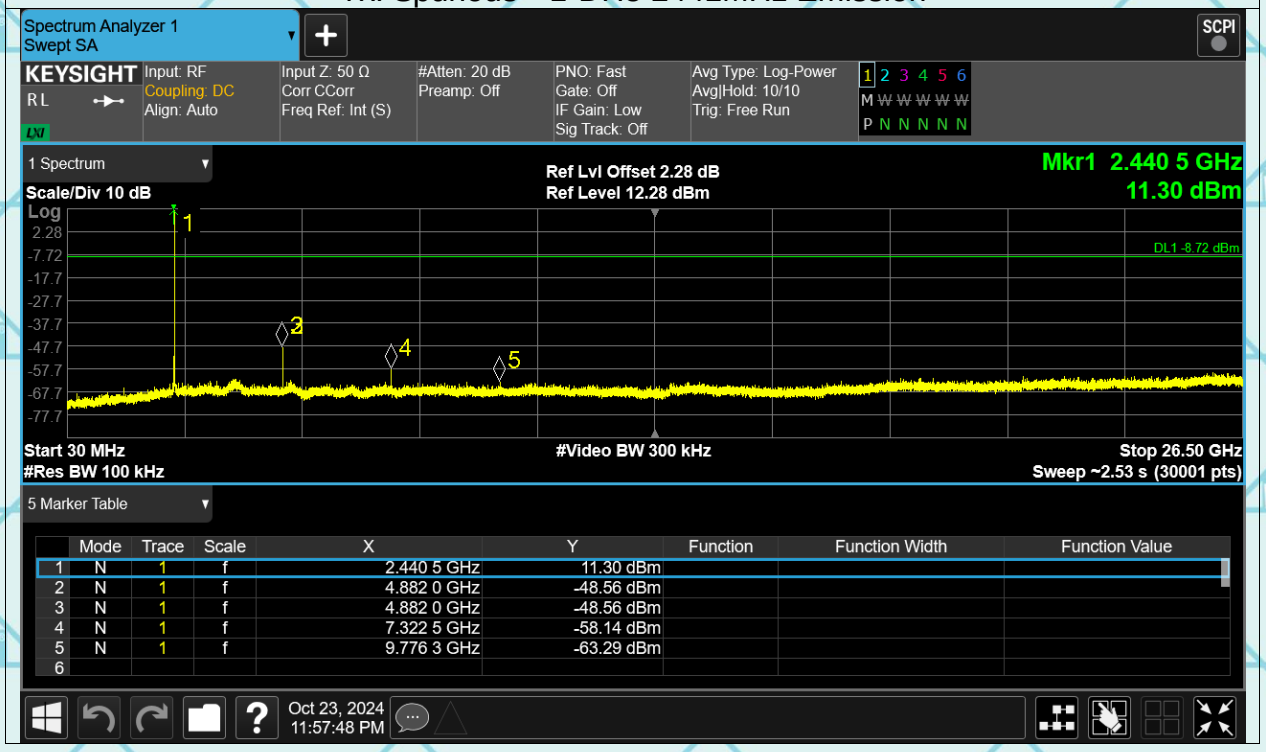


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.401 7 GHz	9.29 dBm			
2	N	1	f	4.803 4 GHz	-47.72 dBm			
3	N	1	f	4.803 4 GHz	-47.72 dBm			
4	N	1	f	7.205 1 GHz	-57.44 dBm			
5	N	1	f	9.795 7 GHz	-64.96 dBm			
6								

Tx. Spurious 1-DH5 2441MHz Ref

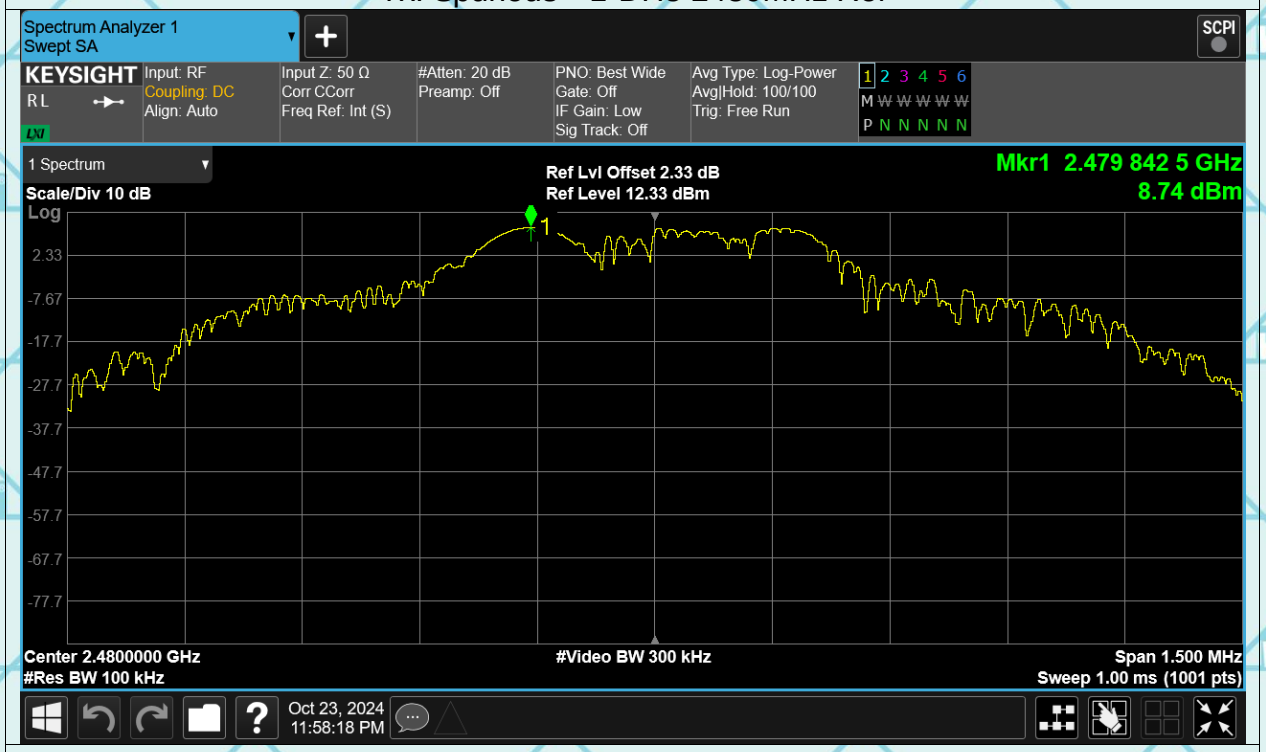


Tx. Spurious 1-DH5 2441MHz Emission

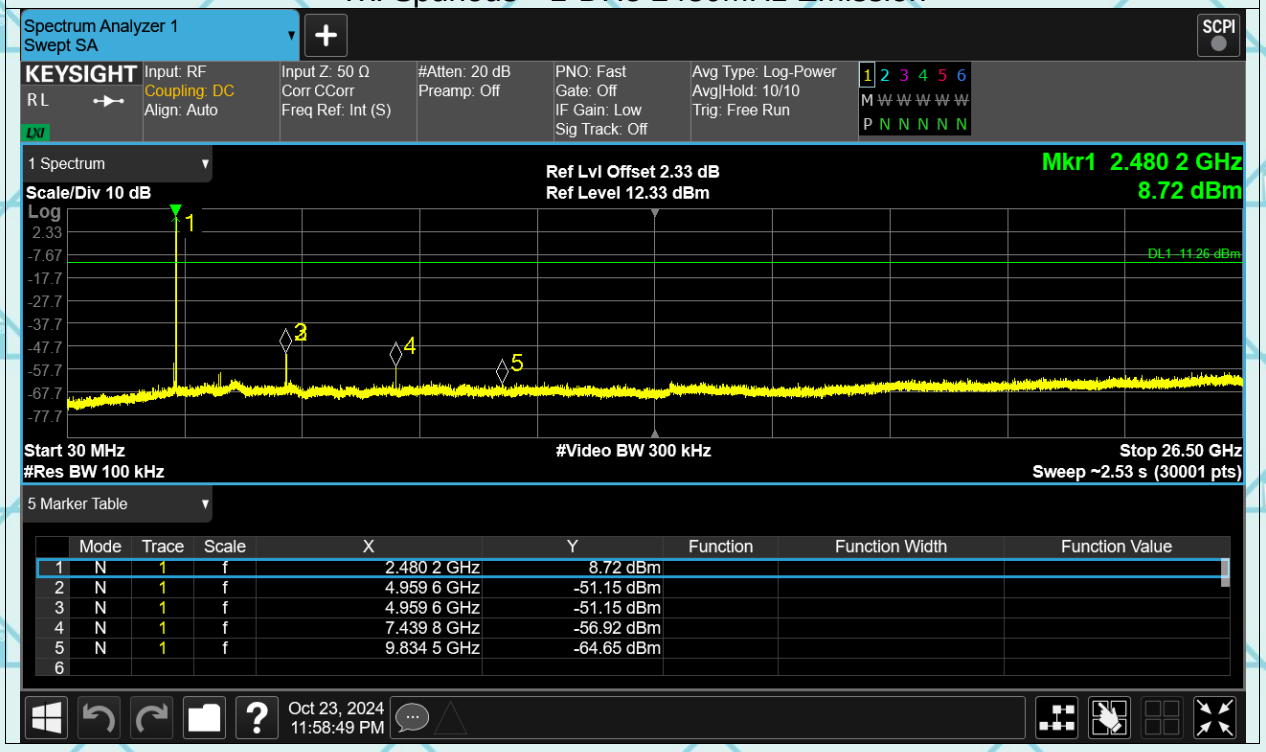


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.440 5 GHz	11.30 dBm			
2	N	1	f	4.882 0 GHz	-48.56 dBm			
3	N	1	f	4.882 0 GHz	-48.56 dBm			
4	N	1	f	7.322 5 GHz	-58.14 dBm			
5	N	1	f	9.776 3 GHz	-63.29 dBm			
6								

Tx. Spurious 1-DH5 2480MHz Ref

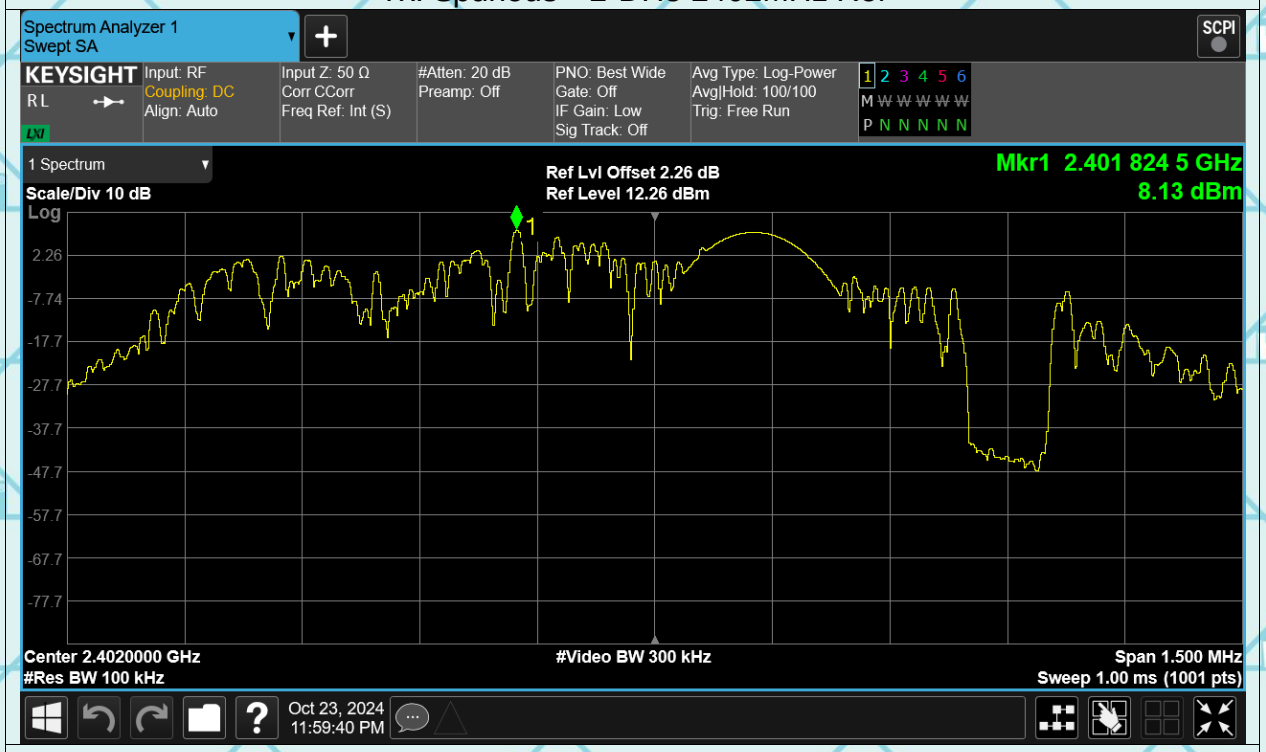


Tx. Spurious 1-DH5 2480MHz Emission

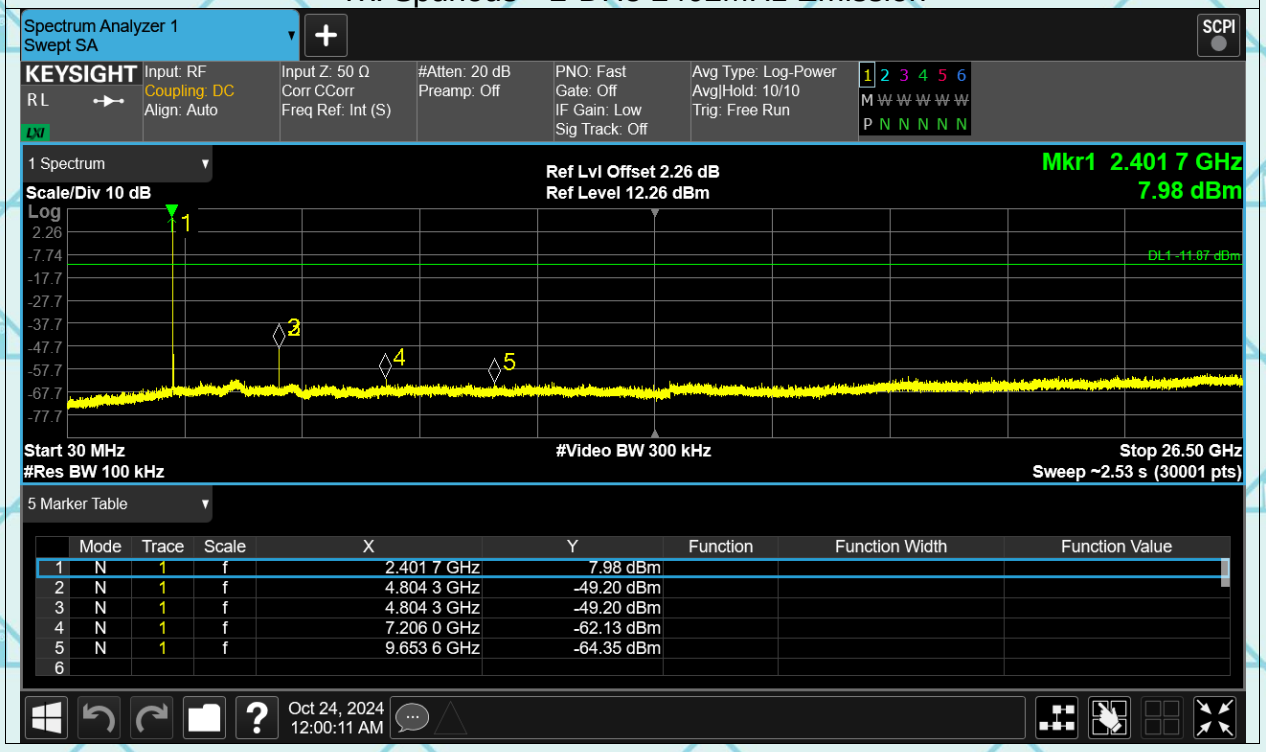


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.480 2 GHz	8.72 dBm			
2	N	1	f	4.959 6 GHz	-51.15 dBm			
3	N	1	f	4.959 6 GHz	-51.15 dBm			
4	N	1	f	7.439 8 GHz	-56.92 dBm			
5	N	1	f	9.834 5 GHz	-64.65 dBm			
6								

Tx. Spurious 2-DH5 2402MHz Ref

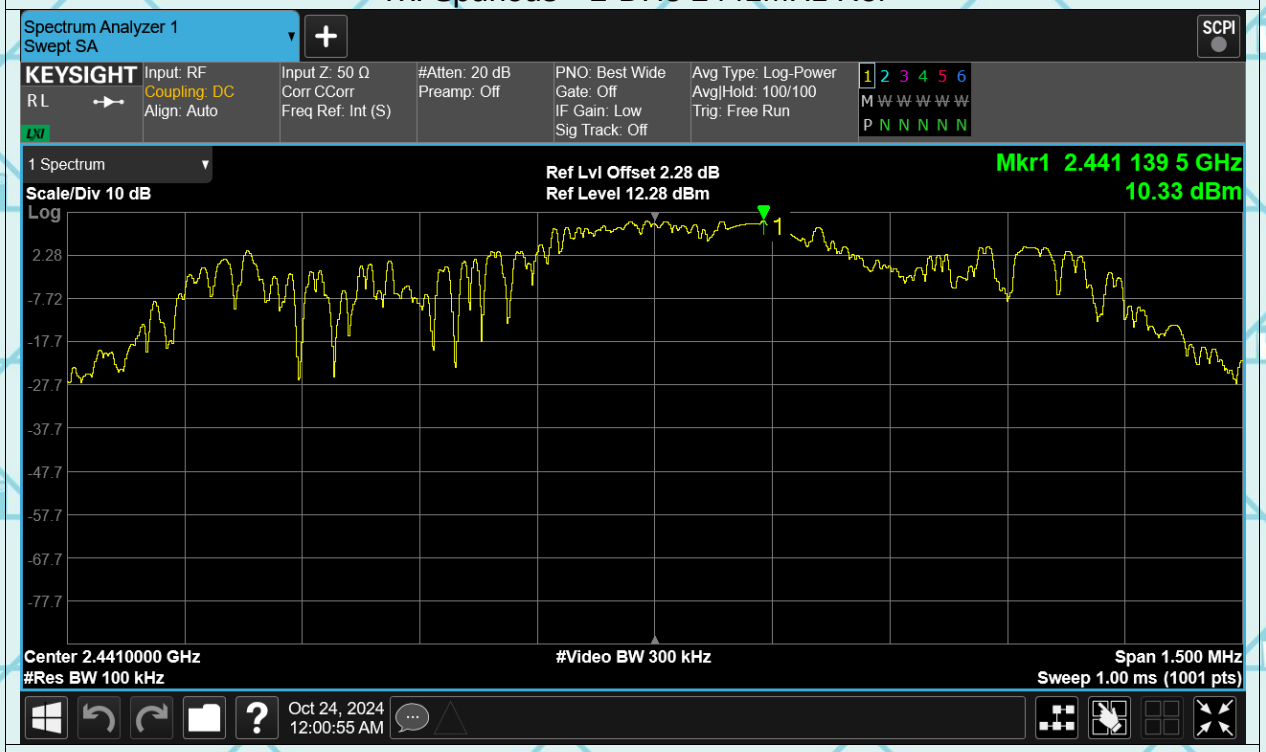


Tx. Spurious 2-DH5 2402MHz Emission

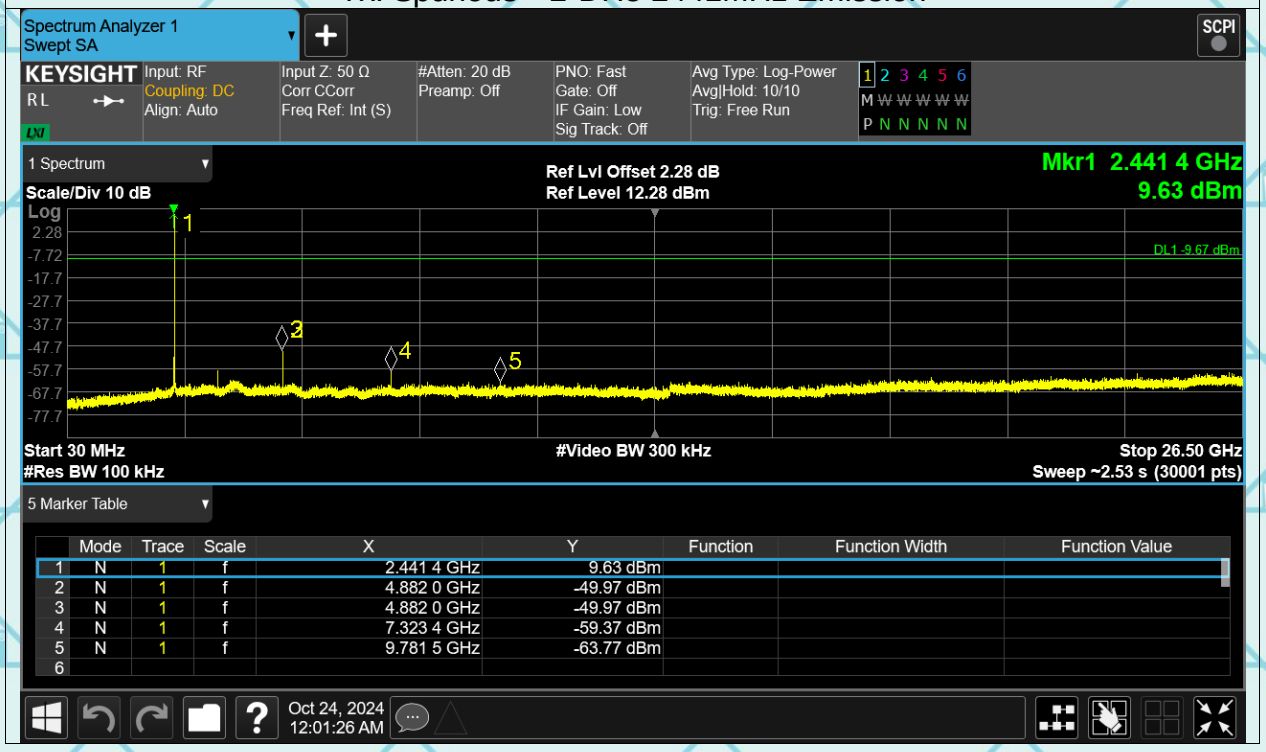


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.401 7 GHz	7.98 dBm			
2	N	1	f	4.804 3 GHz	-49.20 dBm			
3	N	1	f	4.804 3 GHz	-49.20 dBm			
4	N	1	f	7.206 0 GHz	-62.13 dBm			
5	N	1	f	9.653 6 GHz	-64.35 dBm			
6								

Tx. Spurious 2-DH5 2441MHz Ref

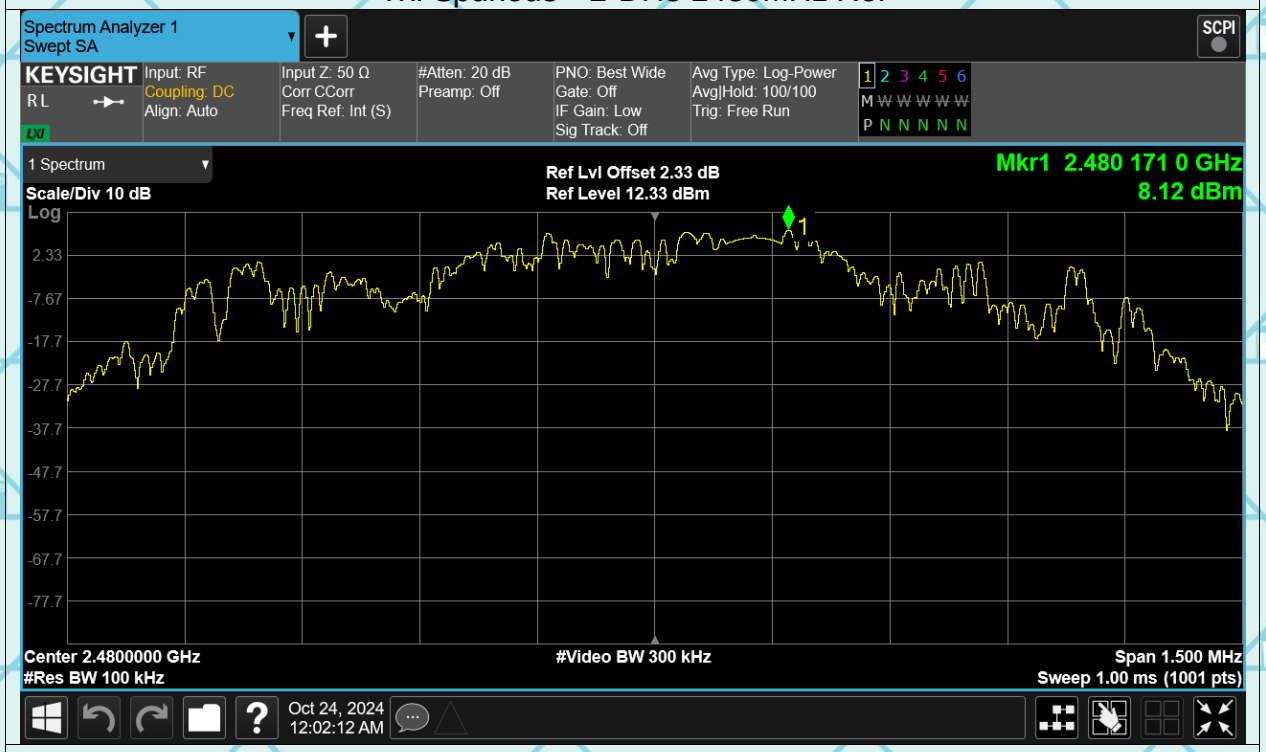


Tx. Spurious 2-DH5 2441MHz Emission

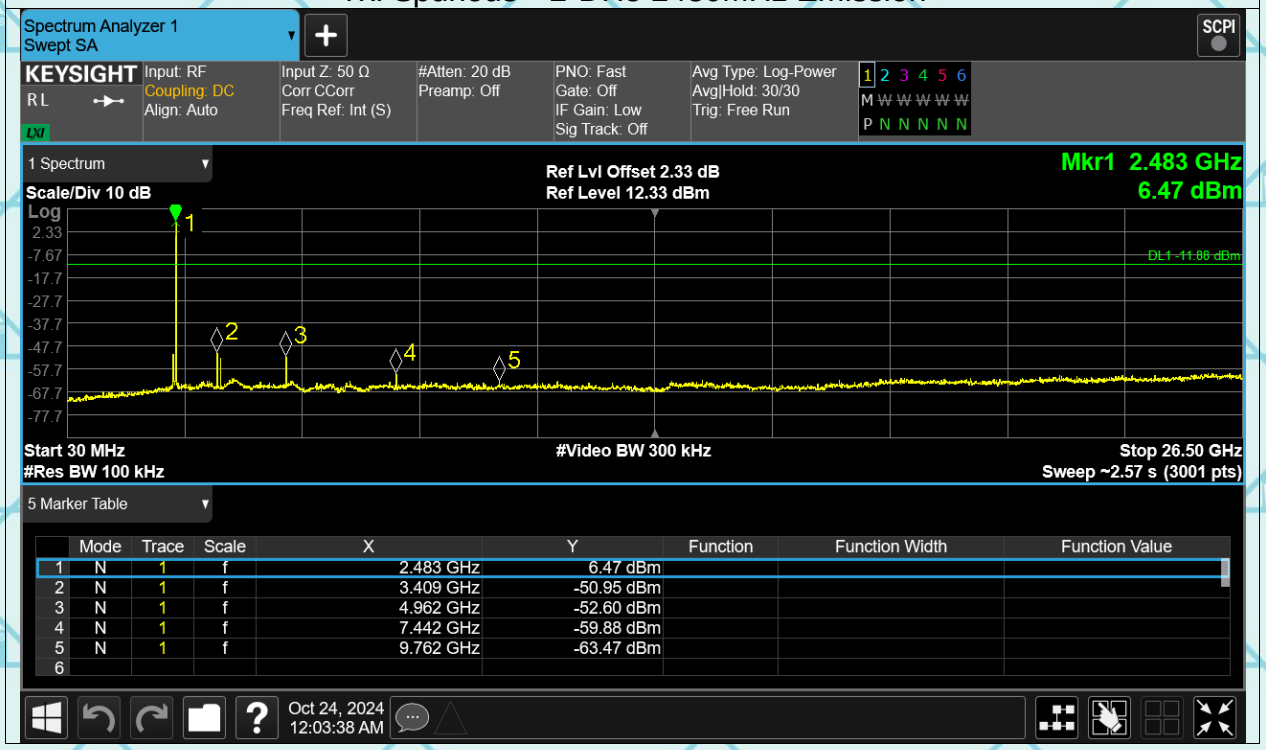


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.441 4 GHz	9.63 dBm			
2	N	1	f	4.882 0 GHz	-49.97 dBm			
3	N	1	f	4.882 0 GHz	-49.97 dBm			
4	N	1	f	7.323 4 GHz	-59.37 dBm			
5	N	1	f	9.781 5 GHz	-63.77 dBm			
6								

Tx. Spurious 2-DH5 2480MHz Ref

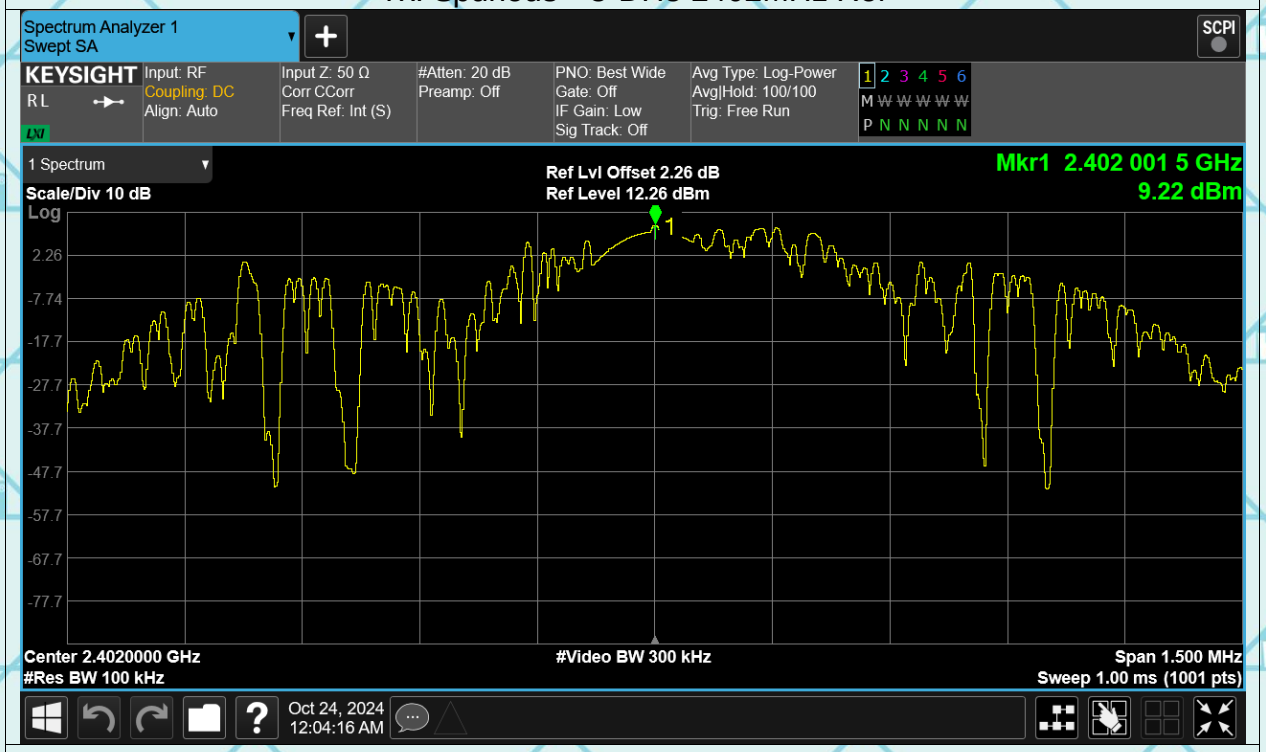


Tx. Spurious 2-DH5 2480MHz Emission

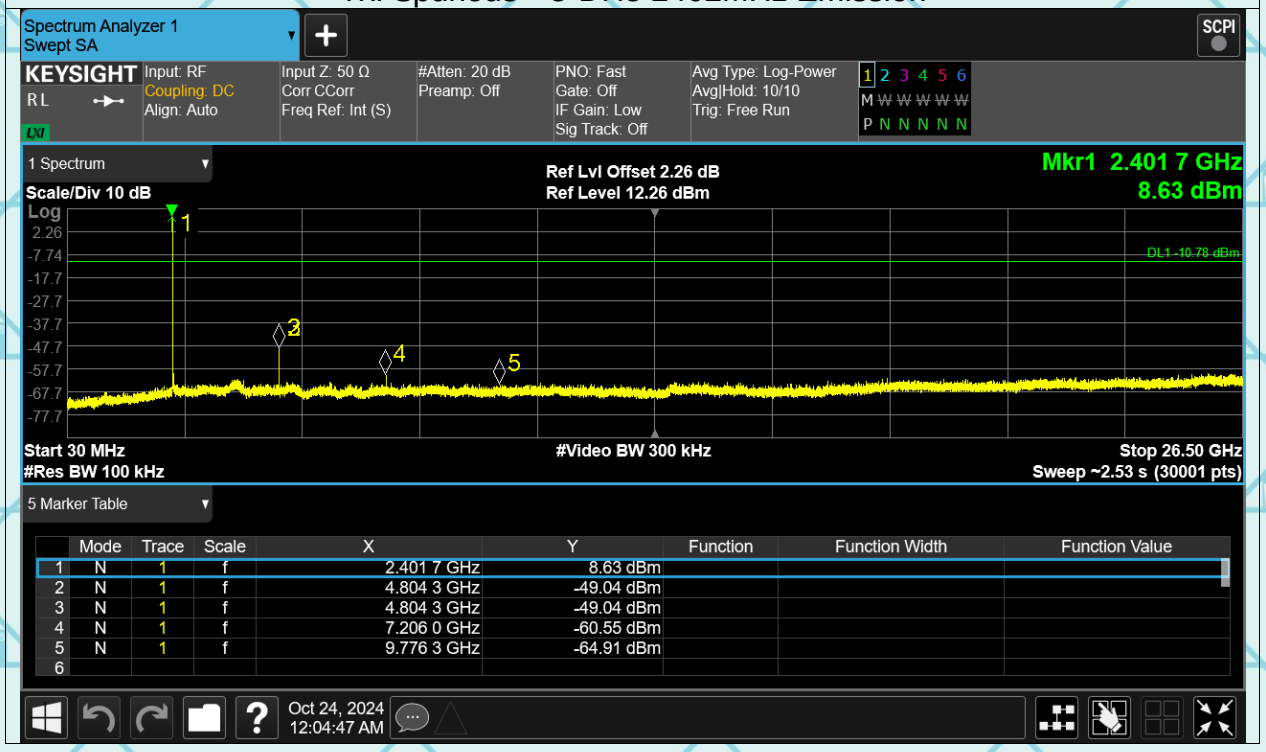


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.483 GHz	6.47 dBm			
2	N	1	f	3.409 GHz	-50.95 dBm			
3	N	1	f	4.962 GHz	-52.60 dBm			
4	N	1	f	7.442 GHz	-59.88 dBm			
5	N	1	f	9.762 GHz	-63.47 dBm			
6								

Tx. Spurious 3-DH5 2402MHz Ref

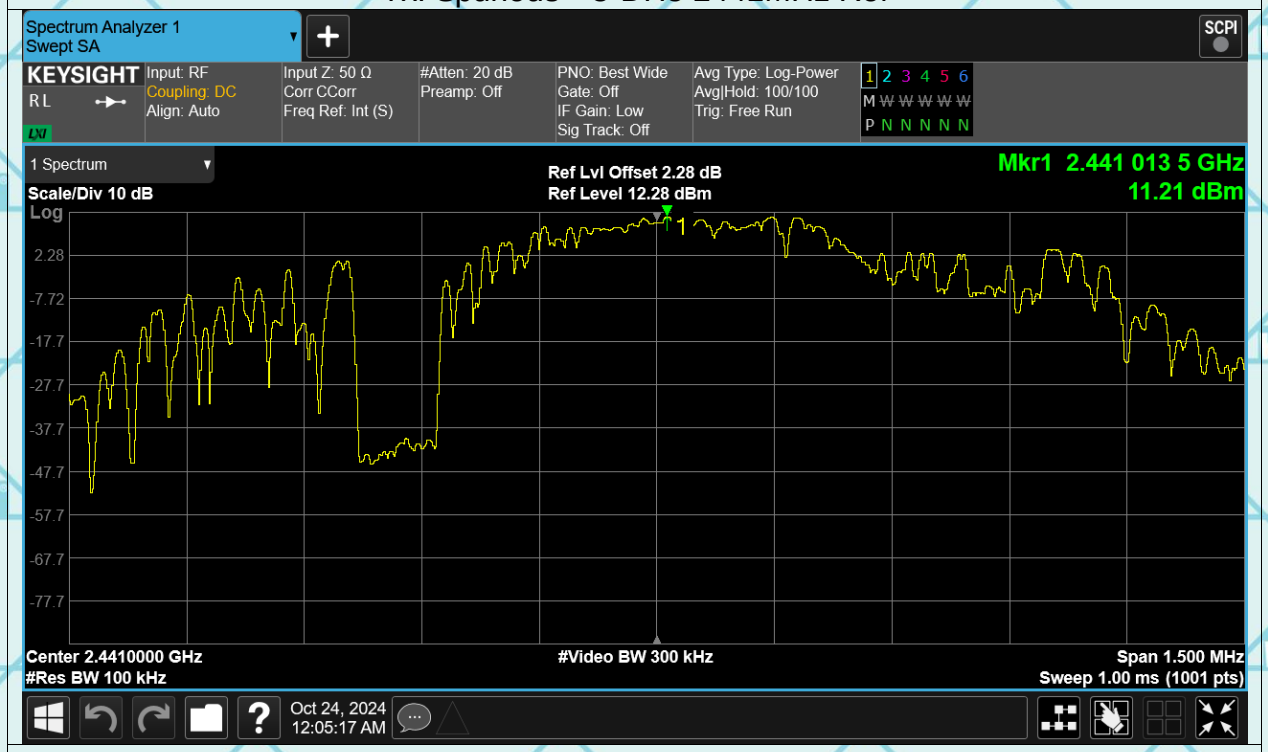


Tx. Spurious 3-DH5 2402MHz Emission

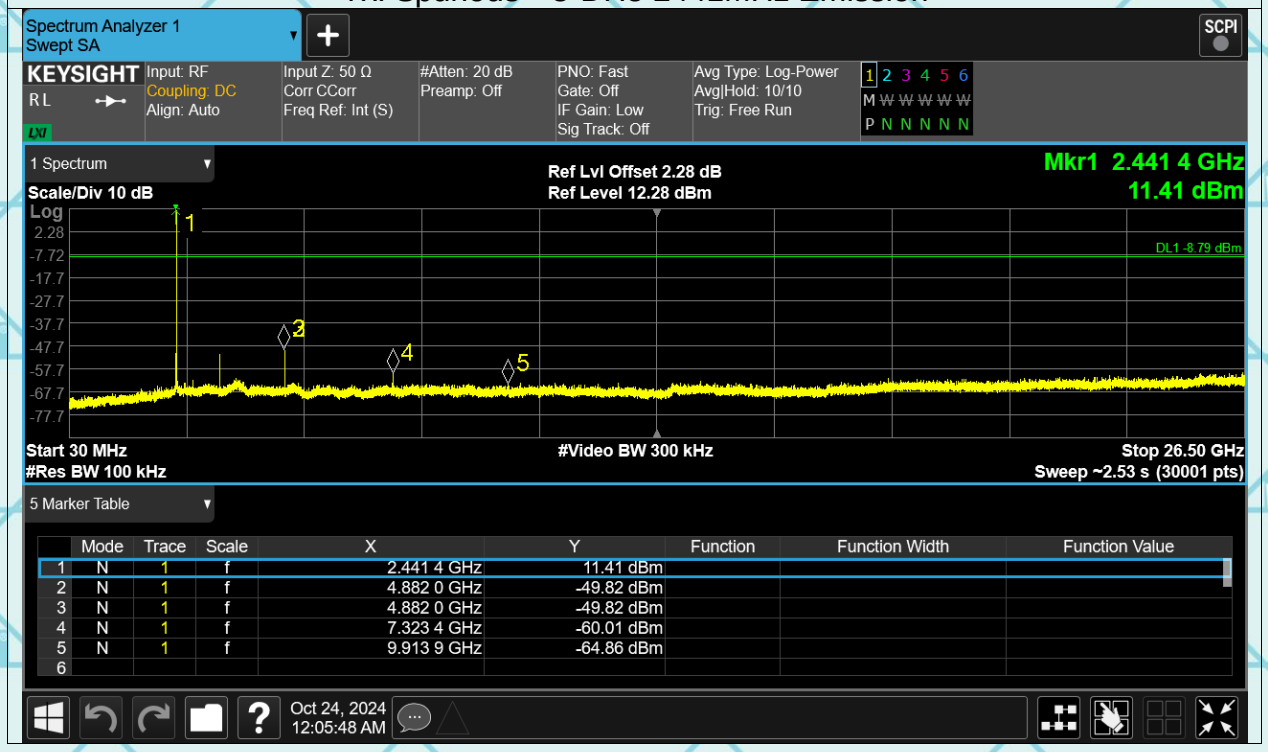


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.401 7 GHz	8.63 dBm			
2	N	1	f	4.804 3 GHz	-49.04 dBm			
3	N	1	f	4.804 3 GHz	-49.04 dBm			
4	N	1	f	7.206 0 GHz	-60.55 dBm			
5	N	1	f	9.776 3 GHz	-64.91 dBm			
6								

Tx. Spurious 3-DH5 2441MHz Ref

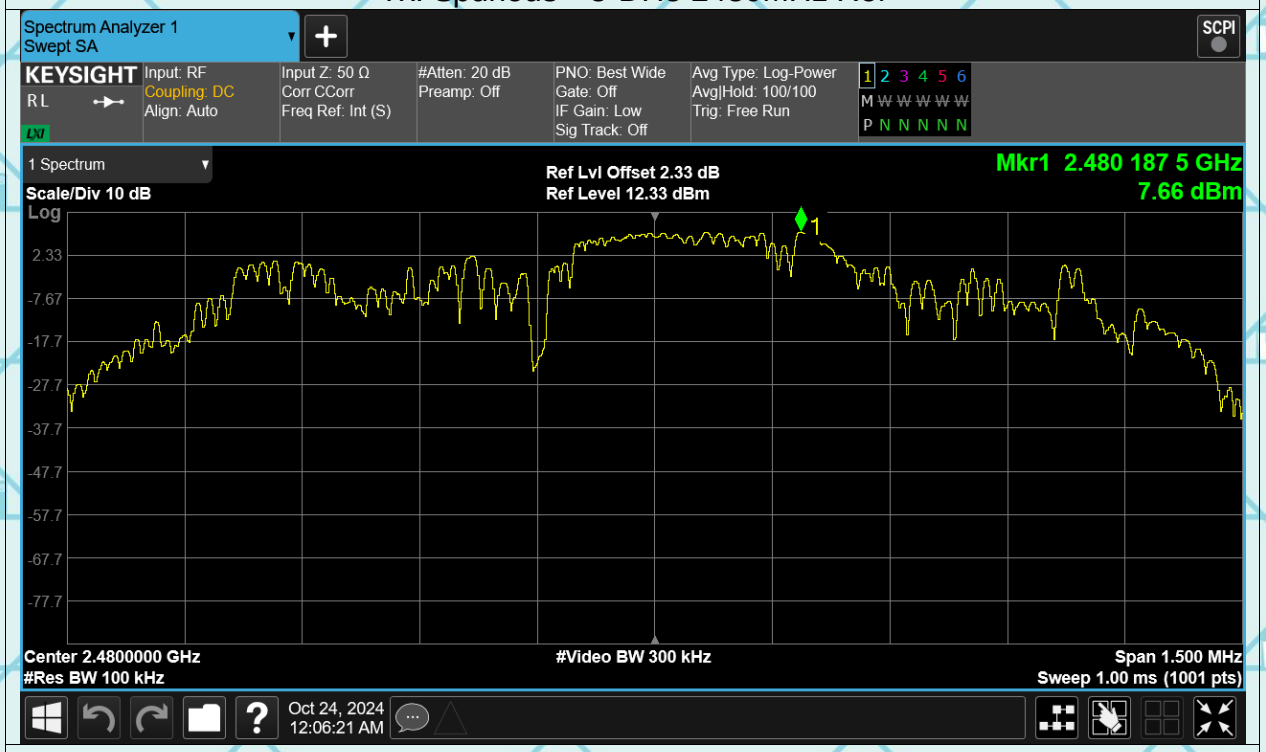


Tx. Spurious 3-DH5 2441MHz Emission

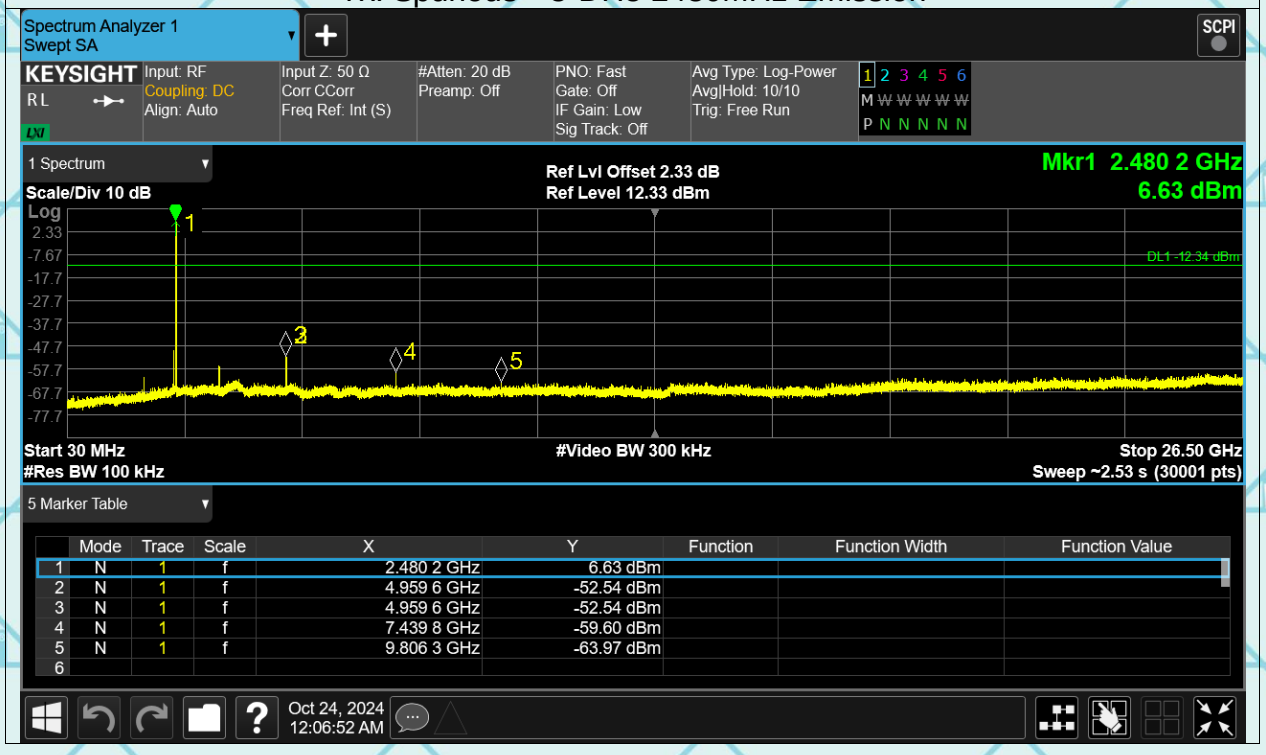


	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.441 4 GHz	11.41 dBm			
2	N	1	f	4.882 0 GHz	-49.82 dBm			
3	N	1	f	4.882 0 GHz	-49.82 dBm			
4	N	1	f	7.323 4 GHz	-60.01 dBm			
5	N	1	f	9.913 9 GHz	-64.86 dBm			
6								

Tx. Spurious 3-DH5 2480MHz Ref



Tx. Spurious 3-DH5 2480MHz Emission



	Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.480 2 GHz	6.63 dBm			
2	N	1	f	4.959 6 GHz	-52.54 dBm			
3	N	1	f	4.959 6 GHz	-52.54 dBm			
4	N	1	f	7.439 8 GHz	-59.60 dBm			
5	N	1	f	9.806 3 GHz	-63.97 dBm			
6								

6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.209
Test Method:	ANSI C63.10:2014
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m
Antenna Polarization:	Horizontal & Vertical

Receiver Setup:

Frequency	Detector	RBW	VBW	Remark
9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
Above 1GHz	Peak	1MHz	3MHz	Peak Value
	Peak	1MHz	10Hz	Average Value

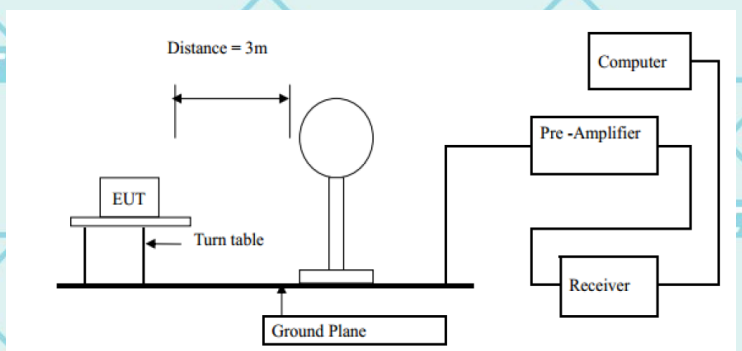
Limit:

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009-0.490	2400/F(KHz)	300
0.490-1.705	24000/F(KHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

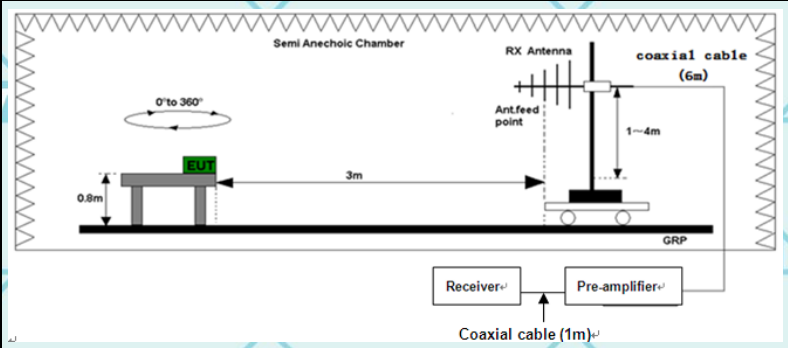
Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Above 1GHz	500	3	Average
	5000	3	Peak

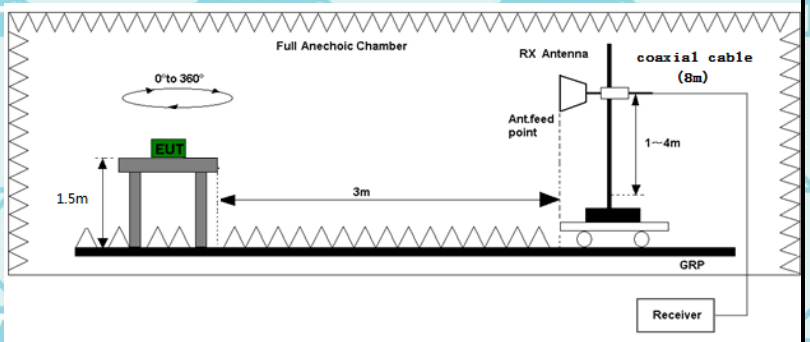
Test setup:

For radiated emissions below 30MHz



30MHz to 1GHz

<table>
<tr><td></td><td> 

Above 1GHz

</td></tr>
<tr><td>Test Mode:</td><td>Transmitting mode with modulation</td></tr>
<tr><td>Test Procedure:</td><td>1. The testing follows the guidelines in Spurious Radiated Emissions of ANSI C63.10:2014 Measurement Guidelines.
2. For the radiated emission test below 1GHz:
The EUT was placed on a turntable with 0.8 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</td></tr>
</table>

	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. 3. Set to the maximum power setting and enable the EUT transmit continuously. 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, RBW=1MHz for f>1GHz ; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time =N1*L1+N2*L2+...+Nn-1*LNn-1+Nn*Ln Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
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 C63.10-2013, 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.

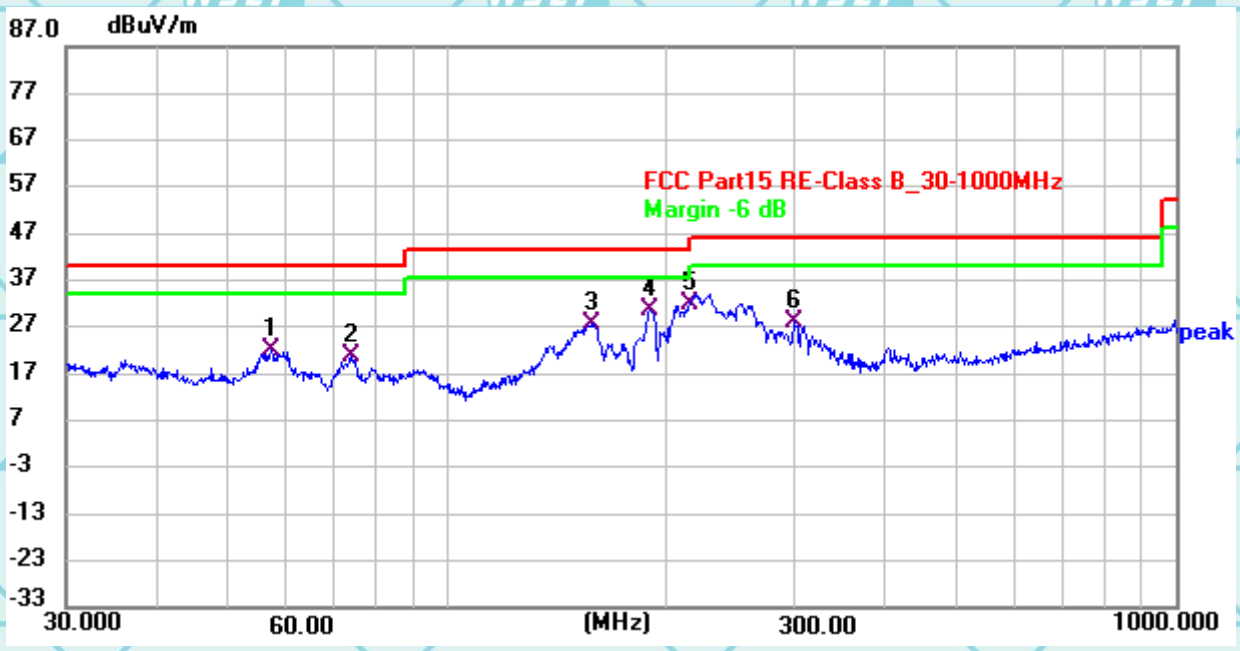
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

6.11.2. Test Data

Please refer to following diagram for individual

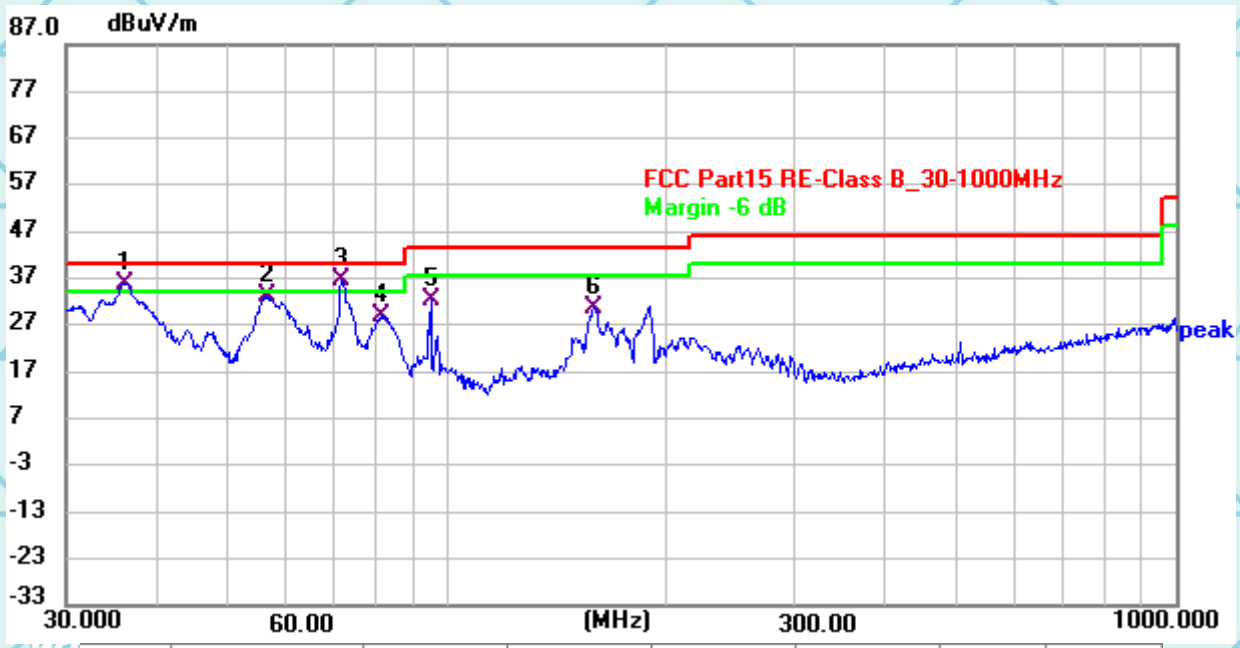
Below 1GHz

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	57.4427	41.99	-20.07	21.92	40.00	-18.08	QP
2	74.1676	44.05	-23.26	20.79	40.00	-19.21	QP
3	157.6280	47.28	-19.51	27.77	43.50	-15.73	QP
4	190.4885	53.72	-22.99	30.73	43.50	-12.77	QP
5 *	215.7401	55.98	-24.06	31.92	43.50	-11.58	QP
6	301.0263	48.05	-20.15	27.90	46.00	-18.10	QP

Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 !	36.3018	55.33	-19.44	35.89	40.00	-4.11	QP
2	56.7171	53.20	-19.94	33.26	40.00	-6.74	QP
3 *	72.0843	59.10	-22.61	36.49	40.00	-3.51	QP
4	81.4256	52.94	-24.08	28.86	40.00	-11.14	QP
5	95.1764	56.57	-24.10	32.47	43.50	-11.03	QP
6	158.9462	50.42	-19.65	30.77	43.50	-12.73	QP

Note1:
Freq. = Emission frequency in MHz
Reading level (dBµV) = Receiver reading
Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.
Measurement (dBµV) = Reading level (dBµV) + Corr. Factor (dB)
Limit (dBµV) = Limit stated in standard
Margin (dB) = Measurement (dBµV) – Limits (dBµV)

Above 1GHz

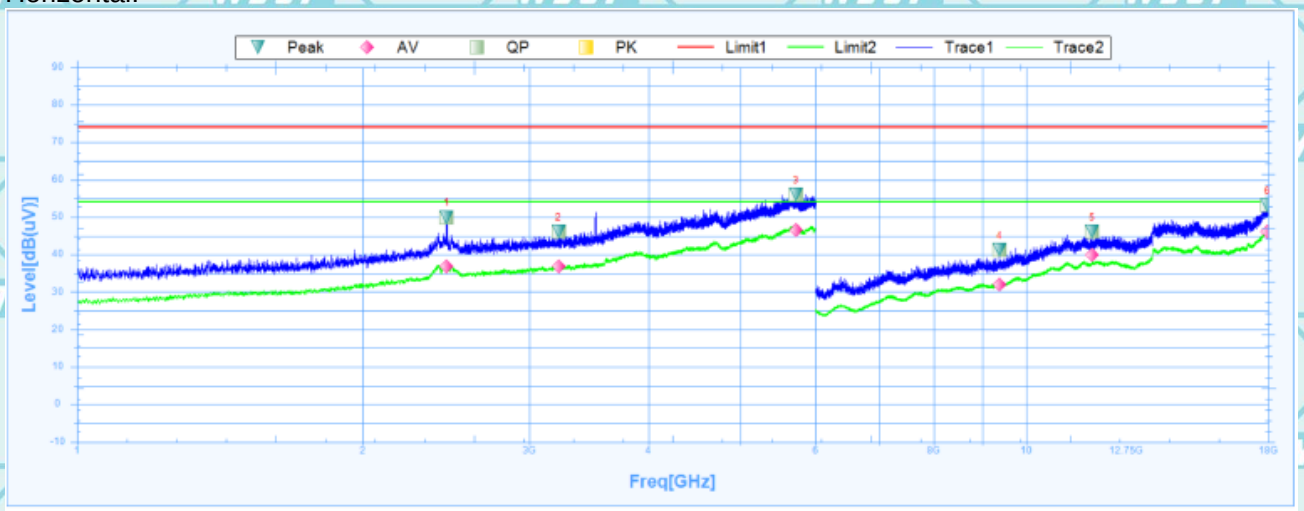
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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

GFSK

Low channel: 2402MHz

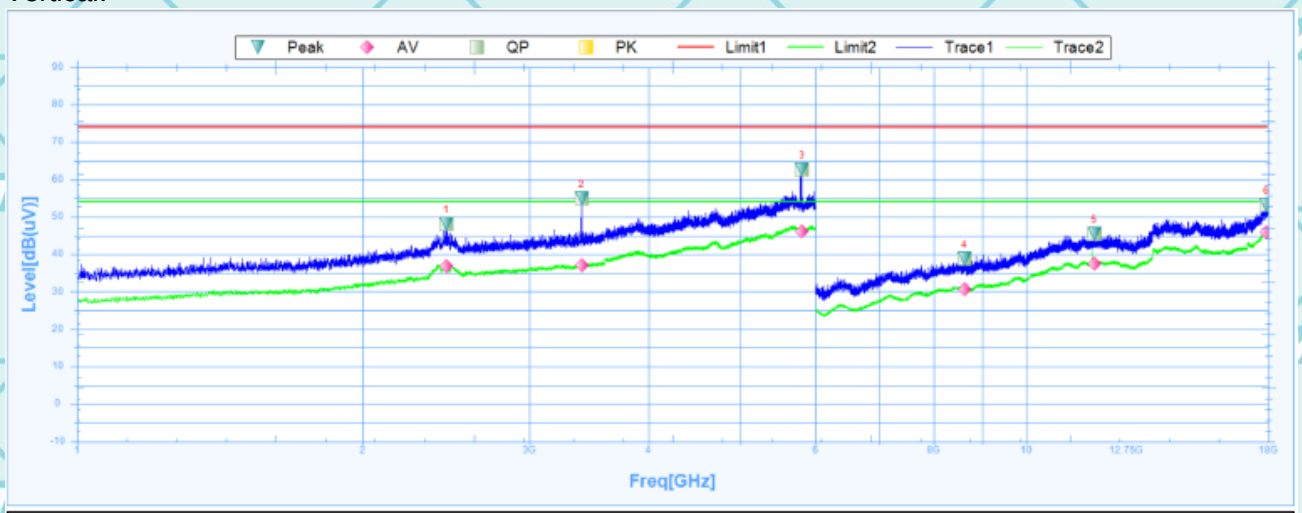
Horizontal:



Susputed Data List

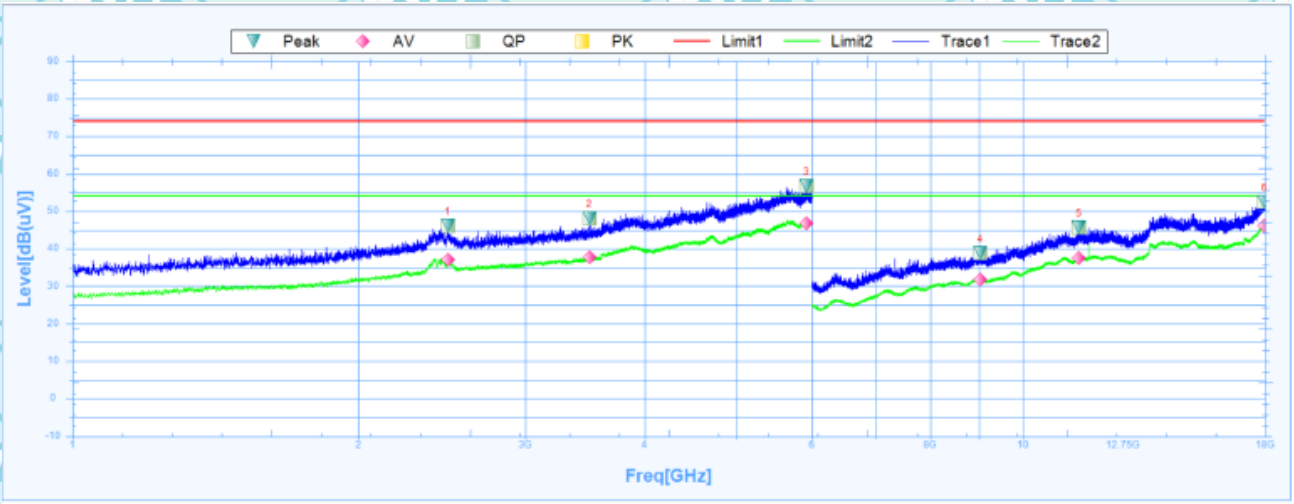
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2452.5000	49.98	27.44	22.54	74	-24.02	359.5	Horizontal	PK	Pass
1	2452.5000	36.75	27.44	9.31	54	-17.25	359.5	Horizontal	AV	Pass
2	3216.8750	46.02	28.33	17.69	74	-27.98	171.9	Horizontal	PK	Pass
2	3216.8750	36.76	28.33	8.43	54	-17.24	171.9	Horizontal	AV	Pass
3	5726.2500	56.07	32.36	23.71	74	-17.93	0	Horizontal	PK	Pass
3	5726.2500	46.51	32.36	14.15	54	-7.49	0	Horizontal	AV	Pass
4	9378.0000	41.18	10.71	30.47	74	-32.82	98.6	Horizontal	PK	Pass
4	9378.0000	32.06	10.71	21.35	54	-21.94	98.6	Horizontal	AV	Pass
5	11743.5000	46.08	16.11	29.97	74	-27.92	195.4	Horizontal	PK	Pass
5	11743.5000	39.94	16.11	23.83	54	-14.06	195.4	Horizontal	AV	Pass
6	17962.5000	53.27	23.66	29.61	74	-20.73	115.3	Horizontal	PK	Pass
6	17962.5000	46.22	23.66	22.56	54	-7.78	115.3	Horizontal	AV	Pass

Vertical:



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2449.3750	48.01	27.43	20.58	74	-25.99	300.9	Vertical	PK	Pass
1	2449.3750	36.83	27.43	9.4	54	-17.17	300.9	Vertical	AV	Pass
2	3401.8750	54.95	28.44	26.51	74	-19.05	358.6	Vertical	PK	Pass
2	3401.8750	37.16	28.44	8.72	54	-16.84	358.6	Vertical	AV	Pass
3	5809.3750	62.73	32.49	30.24	74	-11.27	54.6	Vertical	PK	Pass
3	5809.3750	46.02	32.49	13.53	54	-7.98	54.6	Vertical	AV	Pass
4	8610.0000	38.88	9.31	29.57	74	-35.12	337.5	Vertical	PK	Pass
4	8610.0000	30.74	9.31	21.43	54	-23.26	337.5	Vertical	AV	Pass
5	11796.0000	45.35	16.2	29.15	74	-28.65	149.8	Vertical	PK	Pass
5	11796.0000	37.42	16.2	21.22	54	-16.58	149.8	Vertical	AV	Pass
6	17920.5000	53.12	23.39	29.73	74	-20.88	360	Vertical	PK	Pass
6	17920.5000	45.9	23.39	22.51	54	-8.1	360	Vertical	AV	Pass

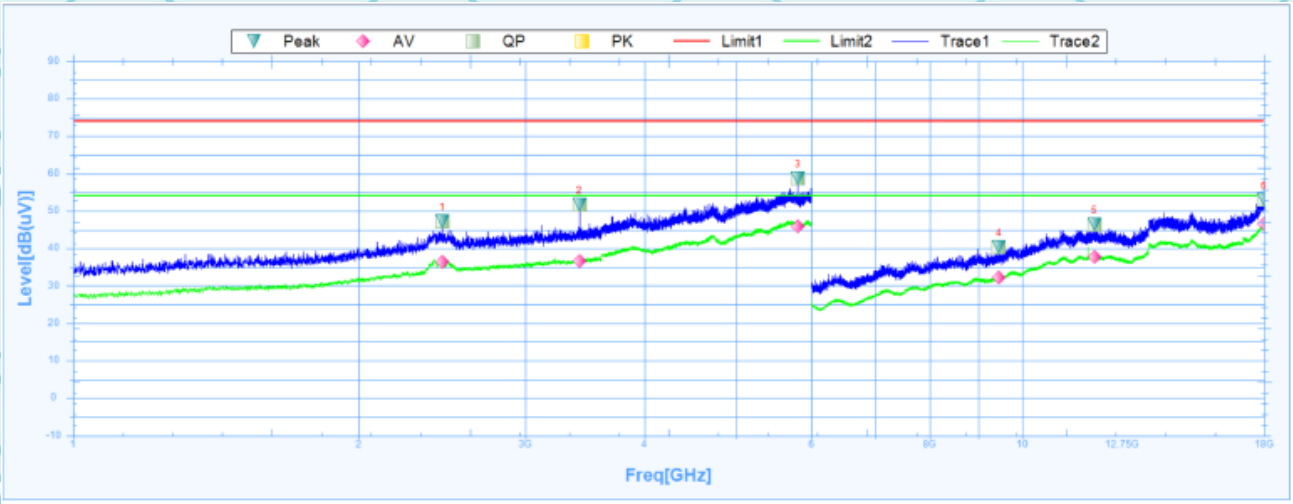
Middle channel: 2441MHz
Horizontal:



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2482.5000	46.02	27.54	18.48	74	-27.98	237.2	Horizontal	PK	Pass
1	2482.5000	37.1	27.54	9.56	54	-16.9	237.2	Horizontal	AV	Pass
2	3498.7500	48.15	28.5	19.65	74	-25.85	152.2	Horizontal	PK	Pass
2	3498.7500	37.77	28.5	9.27	54	-16.23	152.2	Horizontal	AV	Pass
3	5923.1250	56.76	32.68	24.08	74	-17.24	3.8	Horizontal	PK	Pass
3	5923.1250	46.88	32.68	14.2	54	-7.12	3.8	Horizontal	AV	Pass
4	9028.5000	38.75	9.86	28.89	74	-35.25	24.3	Horizontal	PK	Pass
4	9028.5000	31.69	9.86	21.83	54	-22.31	24.3	Horizontal	AV	Pass
5	11466.0000	45.57	16.03	29.54	74	-28.43	147.4	Horizontal	PK	Pass
5	11466.0000	37.43	16.03	21.4	54	-16.57	147.4	Horizontal	AV	Pass
6	17968.5000	52.53	23.71	28.82	74	-21.47	185.7	Horizontal	PK	Pass
6	17968.5000	46.06	23.71	22.35	54	-7.94	185.7	Horizontal	AV	Pass

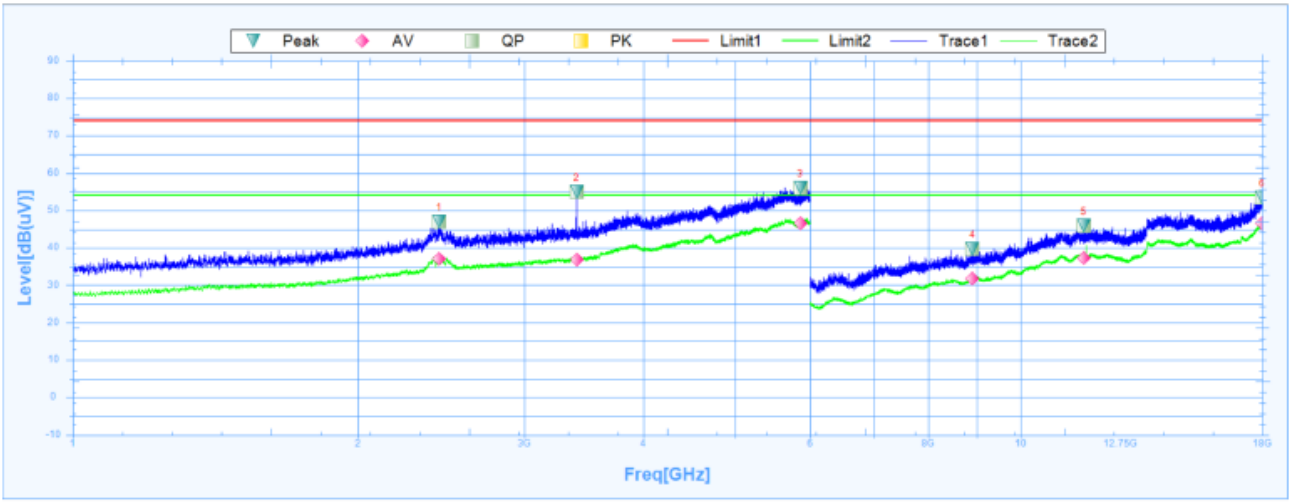
Vertical:



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2450.0000	47.13	27.43	19.7	74	-26.87	-0.1	Vertical	PK	Pass
1	2450.0000	36.47	27.43	9.04	54	-17.53	-0.1	Vertical	AV	Pass
2	3415.6250	51.69	28.45	23.24	74	-22.31	195.7	Vertical	PK	Pass
2	3415.6250	36.7	28.45	8.25	54	-17.3	195.7	Vertical	AV	Pass
3	5807.5000	58.61	32.49	26.12	74	-15.39	11.8	Vertical	PK	Pass
3	5807.5000	45.96	32.49	13.47	54	-8.04	11.8	Vertical	AV	Pass
4	9457.5000	40.31	11.04	29.27	74	-33.69	189.4	Vertical	PK	Pass
4	9457.5000	32.25	11.04	21.21	54	-21.75	189.4	Vertical	AV	Pass
5	11917.5000	46.35	16.57	29.78	74	-27.65	77	Vertical	PK	Pass
5	11917.5000	37.8	16.57	21.23	54	-16.2	77	Vertical	AV	Pass
6	17989.5000	52.97	23.86	29.11	74	-21.03	6.6	Vertical	PK	Pass
6	17989.5000	46.48	23.86	22.62	54	-7.52	6.6	Vertical	AV	Pass

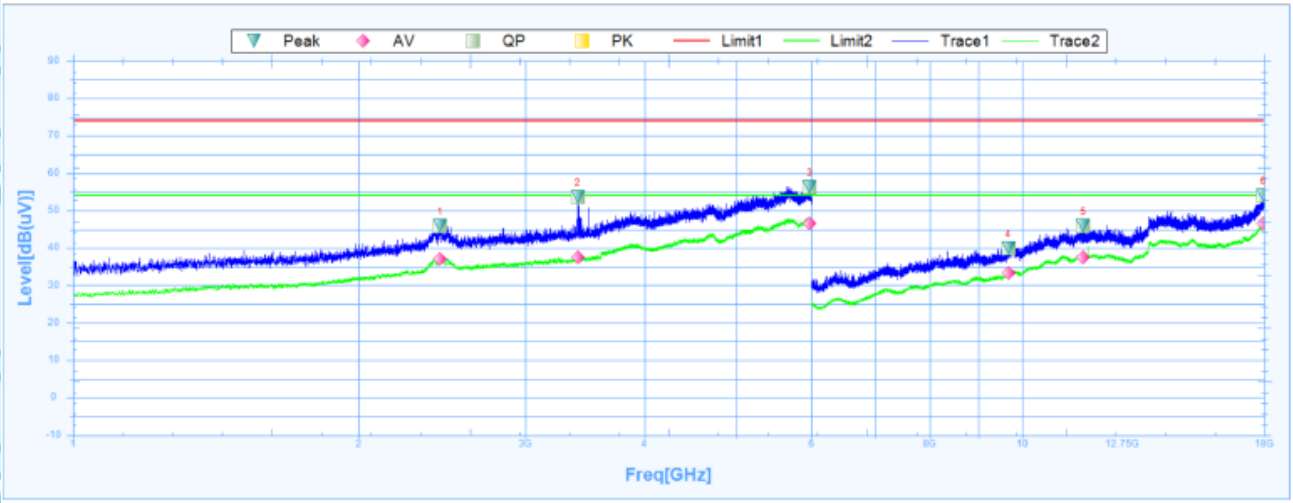
High channel: 2480MHz
Horizontal:



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2435.6250	46.94	27.38	19.56	74	-27.06	274.8	Horizontal	PK	Pass
1	2435.6250	37.04	27.38	9.66	54	-16.96	274.8	Horizontal	AV	Pass
2	3401.8750	54.86	28.44	26.42	74	-19.14	77.5	Horizontal	PK	Pass
2	3401.8750	36.81	28.44	8.37	54	-17.19	77.5	Horizontal	AV	Pass
3	5861.8750	56.12	32.58	23.54	74	-17.88	341	Horizontal	PK	Pass
3	5861.8750	46.67	32.58	14.09	54	-7.33	341	Horizontal	AV	Pass
4	8905.5000	39.65	9.77	29.88	74	-34.35	191.7	Horizontal	PK	Pass
4	8905.5000	31.69	9.77	21.92	54	-22.31	191.7	Horizontal	AV	Pass
5	11665.5000	45.9	16.15	29.75	74	-28.1	360	Horizontal	PK	Pass
5	11665.5000	37.31	16.15	21.16	54	-16.69	360	Horizontal	AV	Pass
6	17988.0000	53.34	23.84	29.5	74	-20.66	60.2	Horizontal	PK	Pass
6	17988.0000	46.55	23.84	22.71	54	-7.45	60.2	Horizontal	AV	Pass

Vertical:



Susputed Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2436.2500	45.97	27.38	18.59	74	-28.03	193.4	Vertical	PK	Pass
1	2436.2500	37.01	27.38	9.63	54	-16.99	193.4	Vertical	AV	Pass
2	3401.8750	53.57	28.44	25.13	74	-20.43	137.2	Vertical	PK	Pass
2	3401.8750	37.48	28.44	9.04	54	-16.52	137.2	Vertical	AV	Pass
3	5975.0000	56.37	32.76	23.61	74	-17.63	85.8	Vertical	PK	Pass
3	5975.0000	46.66	32.76	13.9	54	-7.34	85.8	Vertical	AV	Pass
4	9672.0000	39.93	11.55	28.38	74	-34.07	360.1	Vertical	PK	Pass
4	9672.0000	33.23	11.55	21.68	54	-20.77	360.1	Vertical	AV	Pass
5	11602.5000	45.98	16.19	29.79	74	-28.02	332.8	Vertical	PK	Pass
5	11602.5000	37.53	16.19	21.34	54	-16.47	332.8	Vertical	AV	Pass
6	17961.0000	54.09	23.65	30.44	74	-19.91	93.8	Vertical	PK	Pass
6	17961.0000	46.57	23.65	22.92	54	-7.43	93.8	Vertical	AV	Pass

Note:

1. *The emission levels of other frequencies are very lower than the limit and not show in test report.*
2. *Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.*
3. *Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.*
4. *Measurements were conducted in all three modulation (GFSK, Pi/4 DQPSK, 8DPSK), and the worst case Mode (GFSK) was submitted only.*
5. *EUT has been tested in unfolded states, and the report only reflects data in the unfolded state (worst-case scenario)*

7. Test Setup Photographs

Please refer to Annex "Set Up Photos-15C" for test setup photos

*******END OF REPORT*******