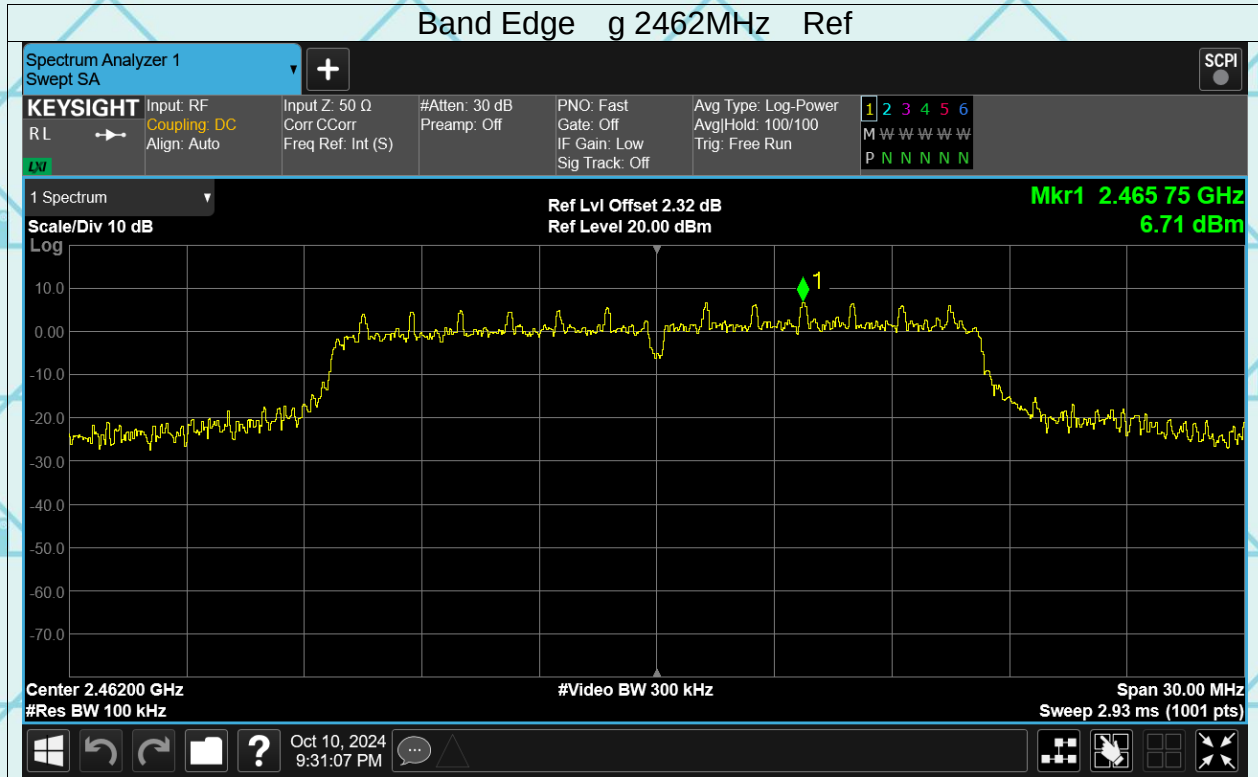
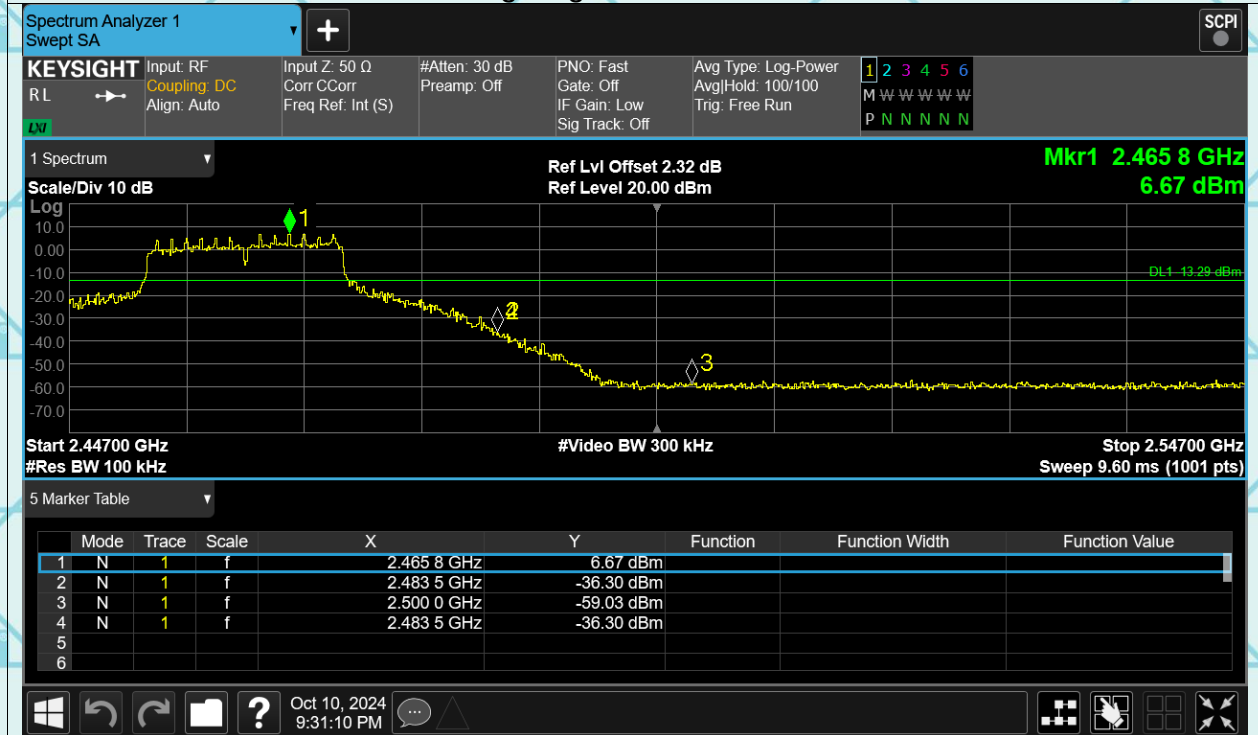


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Band Edge g 2462MHz Ref

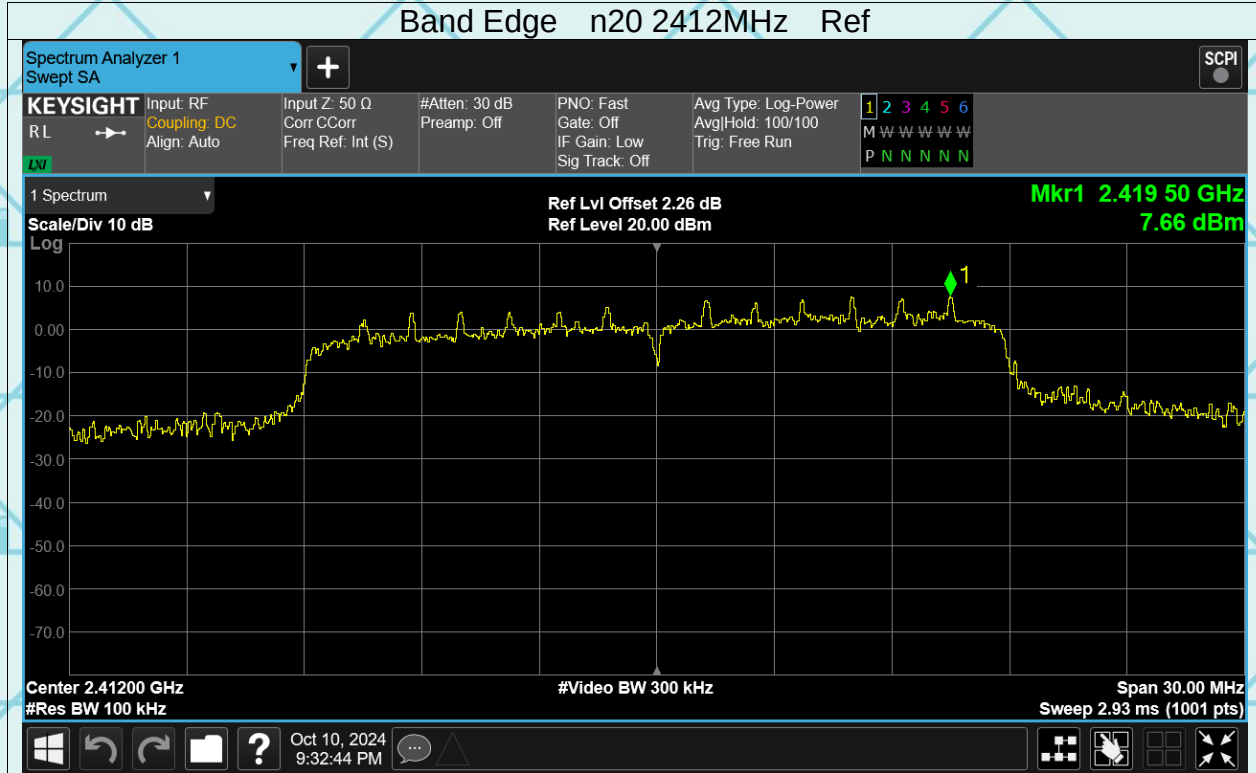


Band Edge g 2462MHz Emission

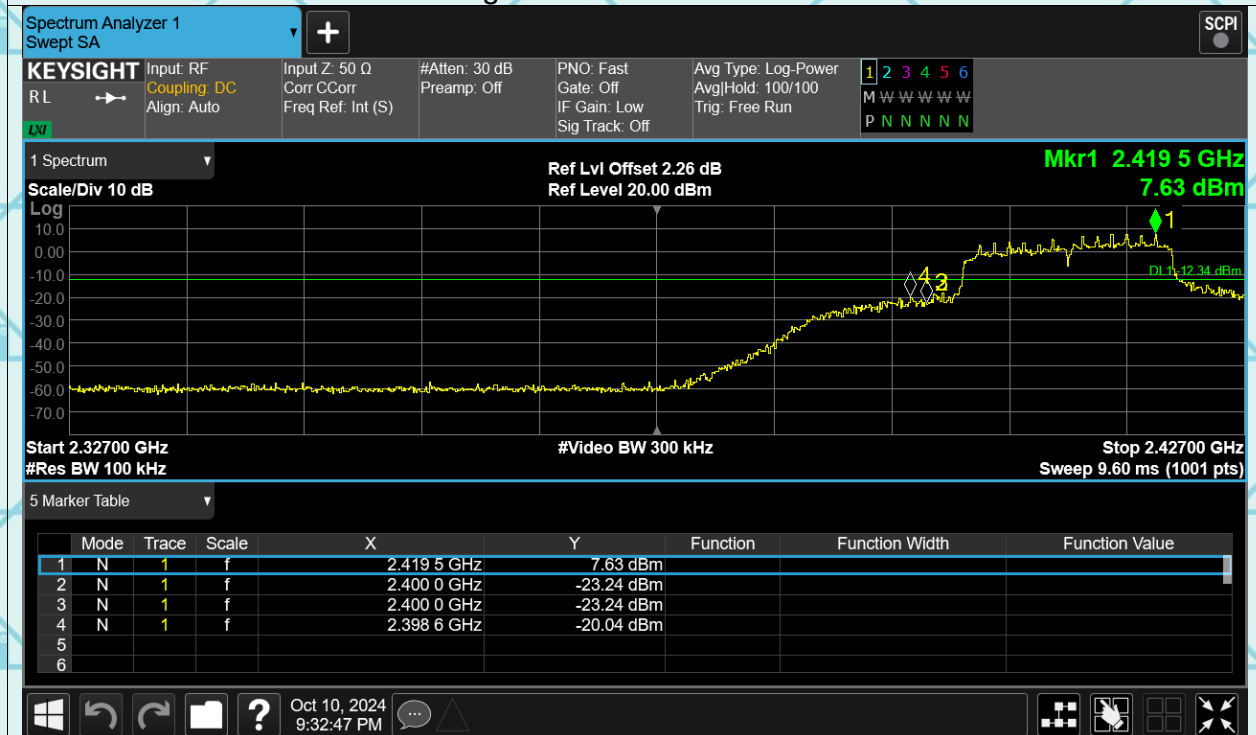


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Band Edge n20 2412MHz Ref

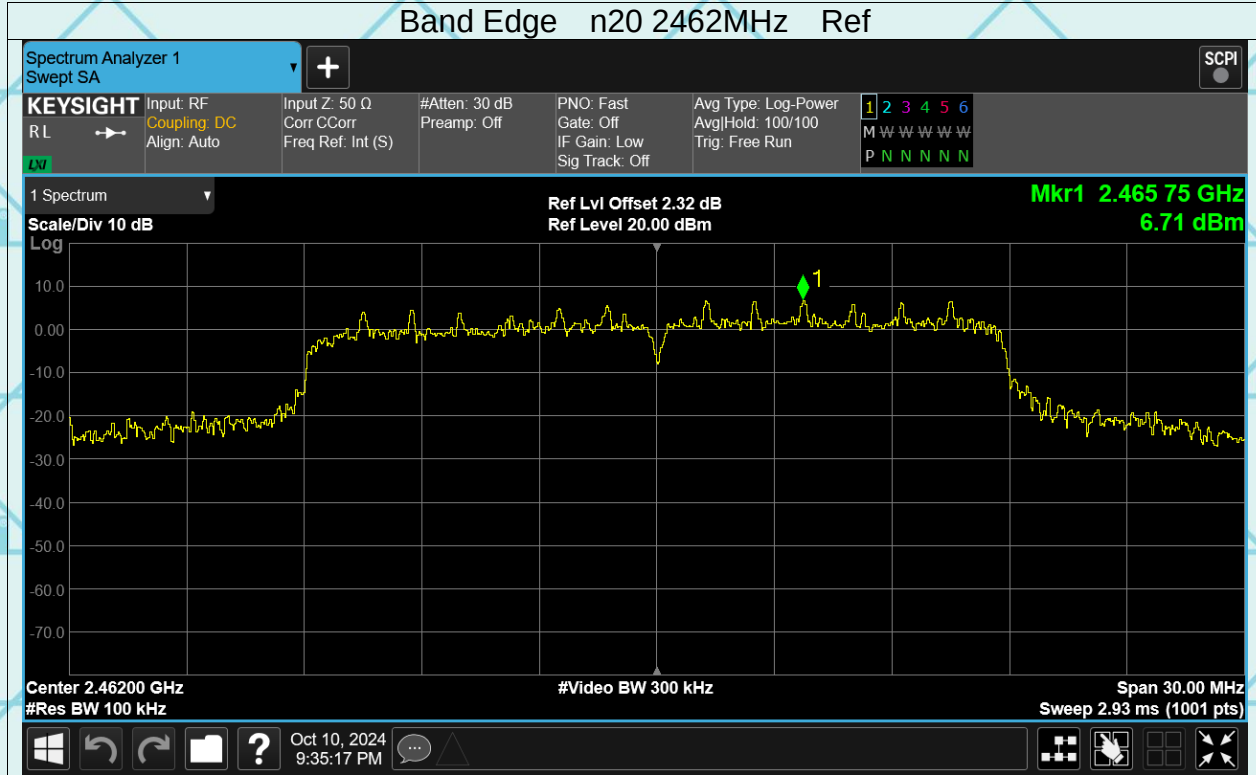


Band Edge n20 2412MHz Emission

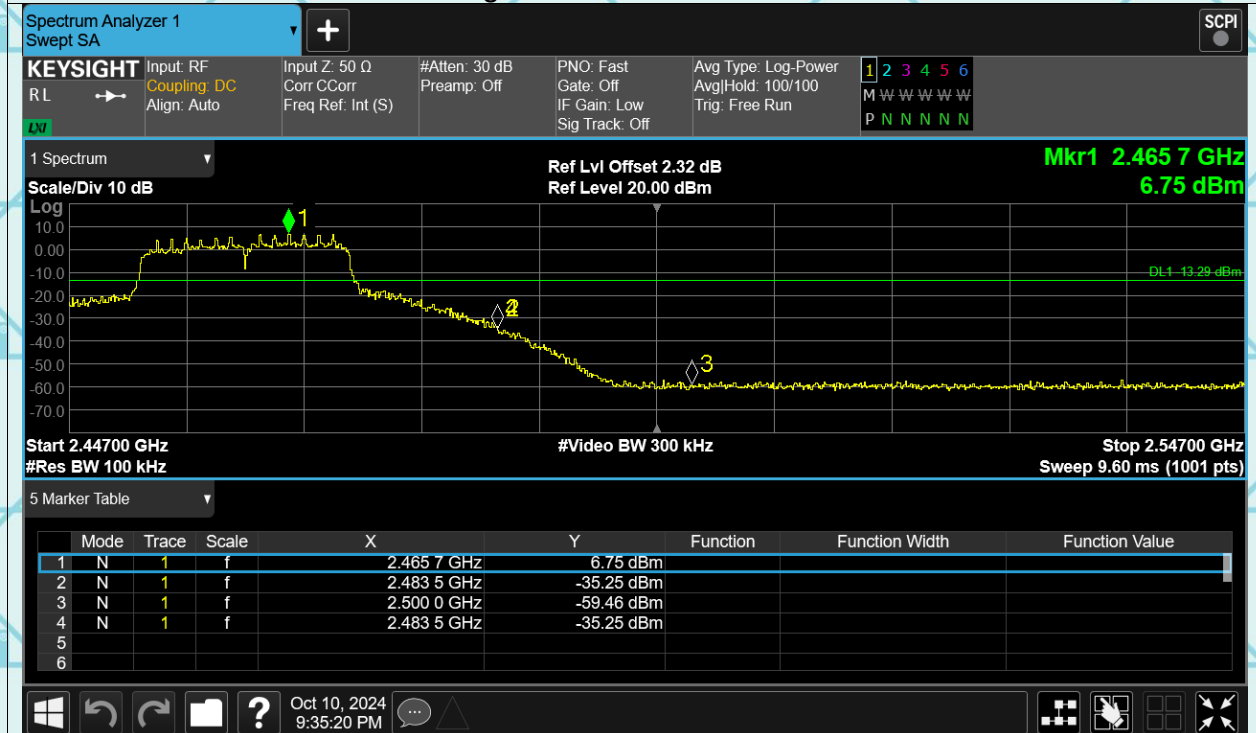


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Band Edge n20 2462MHz Ref

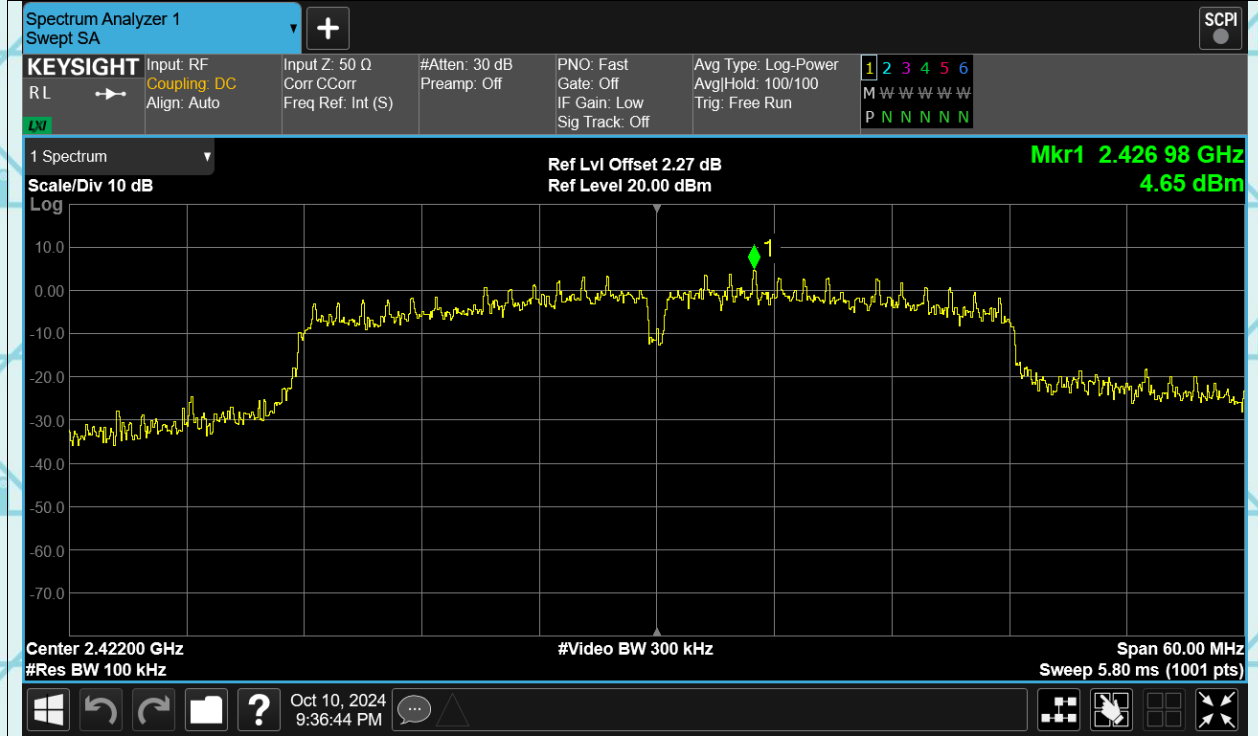


Band Edge n20 2462MHz Emission

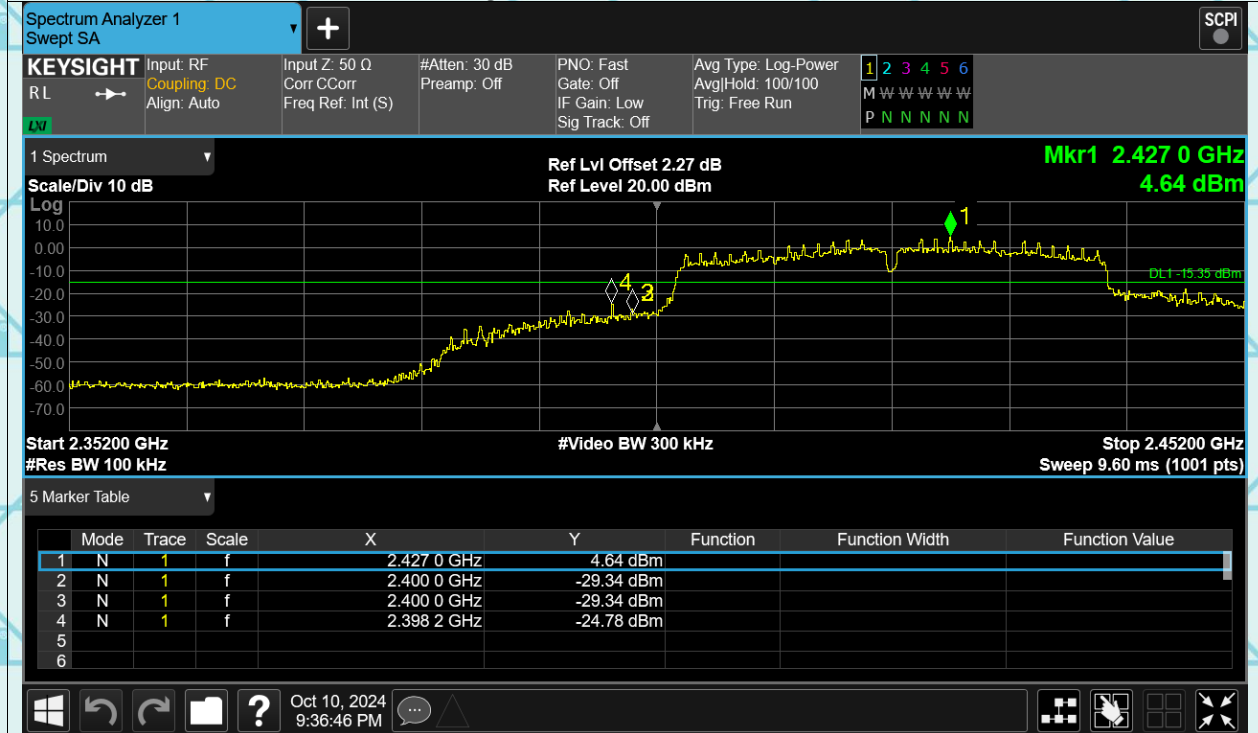


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Band Edge n40 2422MHz Ref

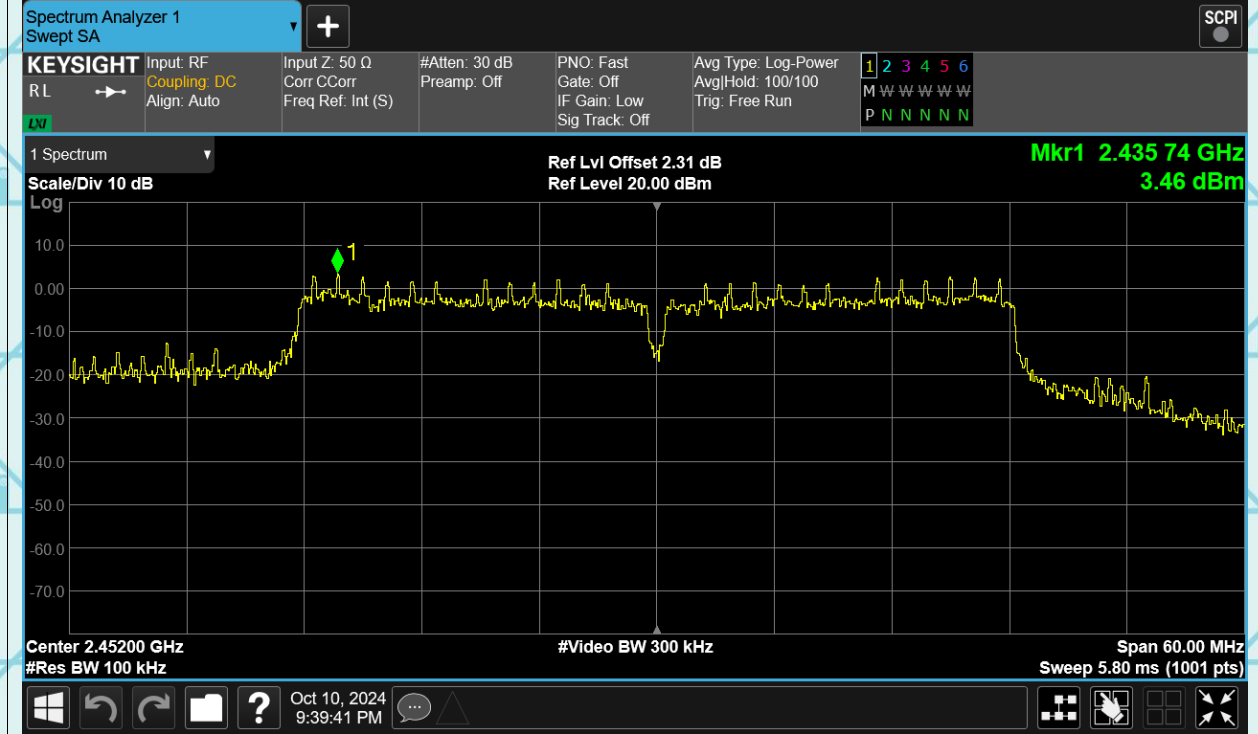


Band Edge n40 2422MHz Emission

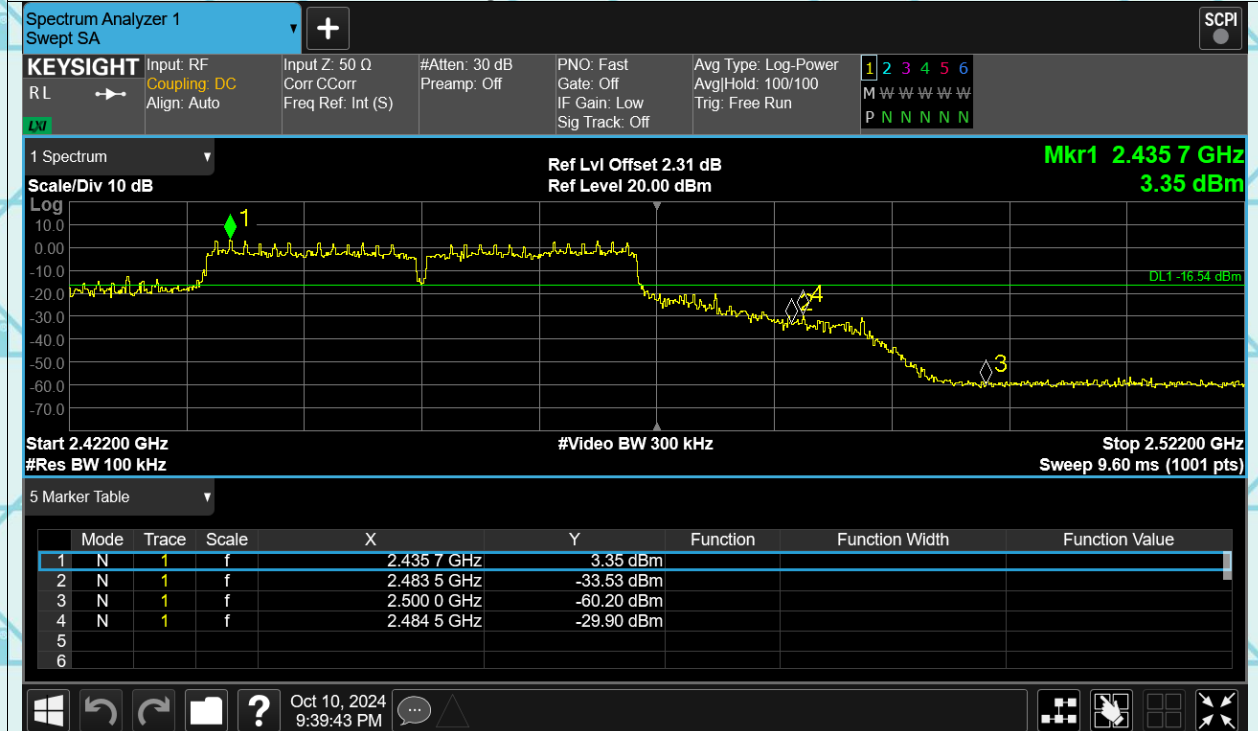


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Band Edge n40 2452MHz Ref



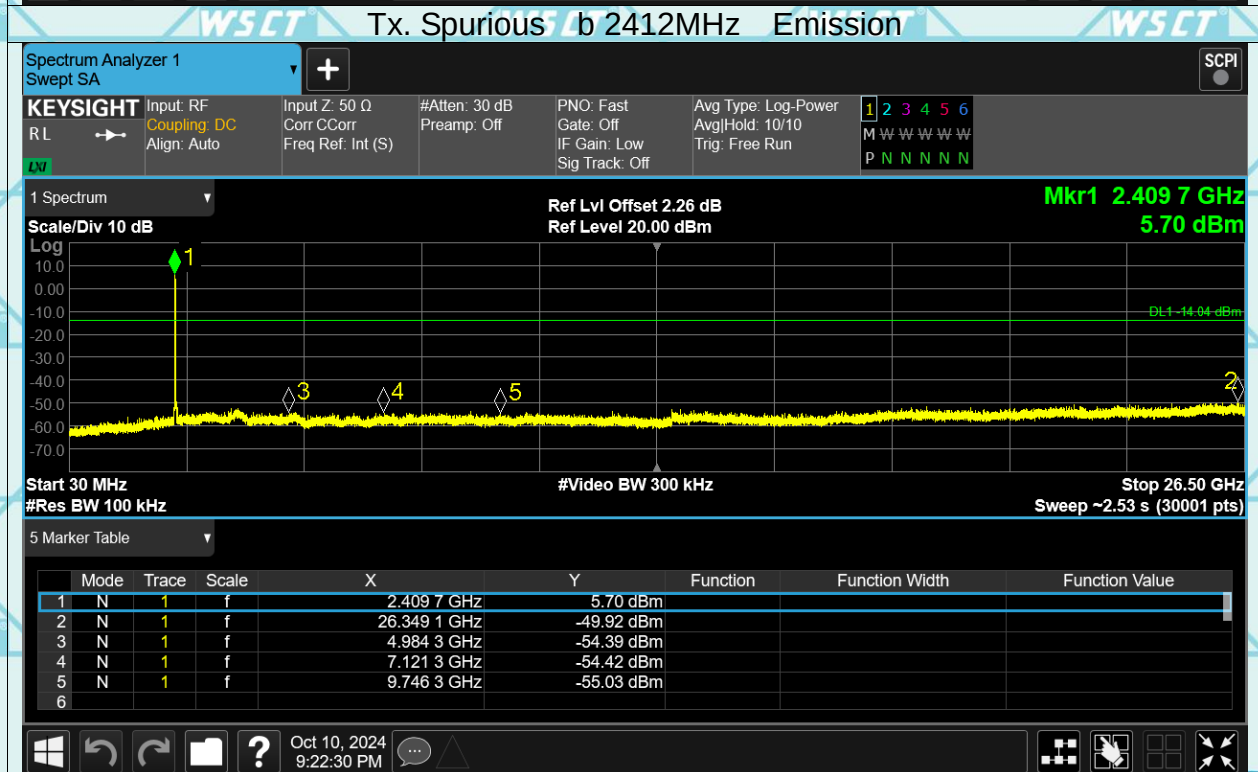
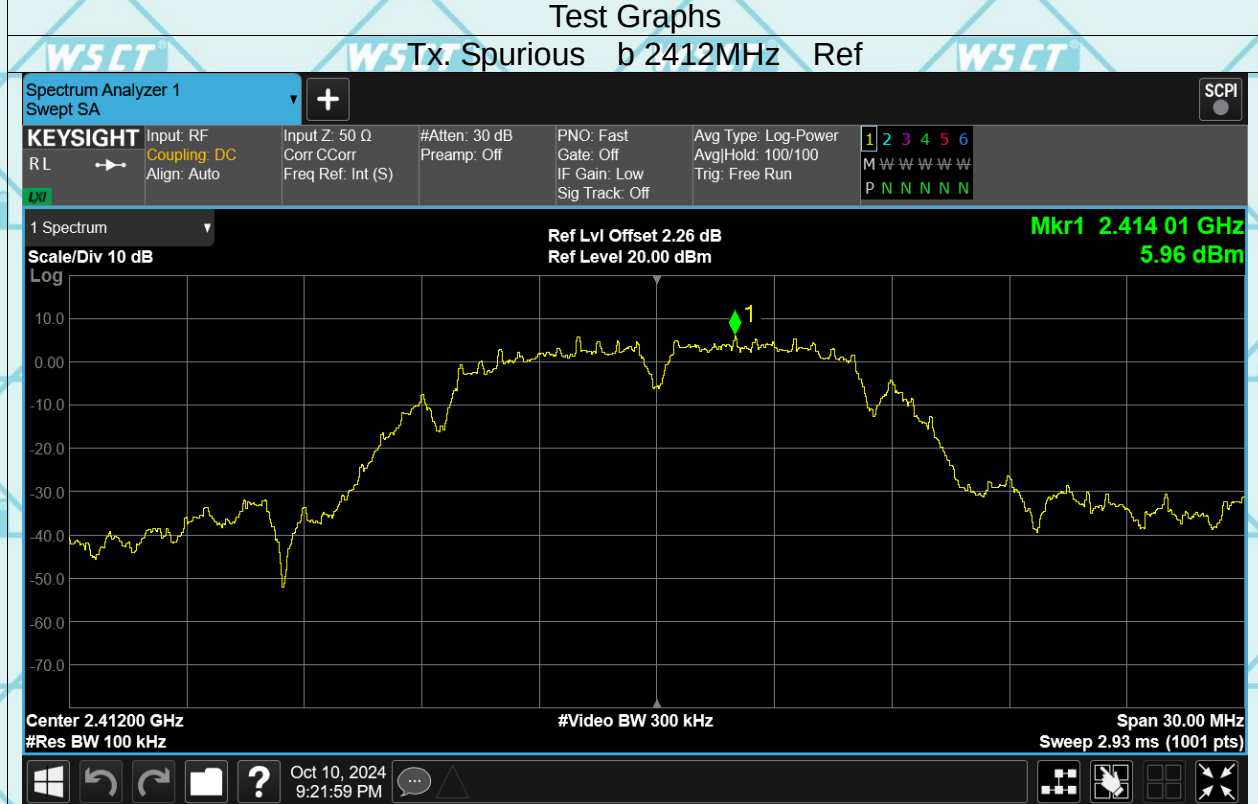
Band Edge n40 2452MHz Emission



Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

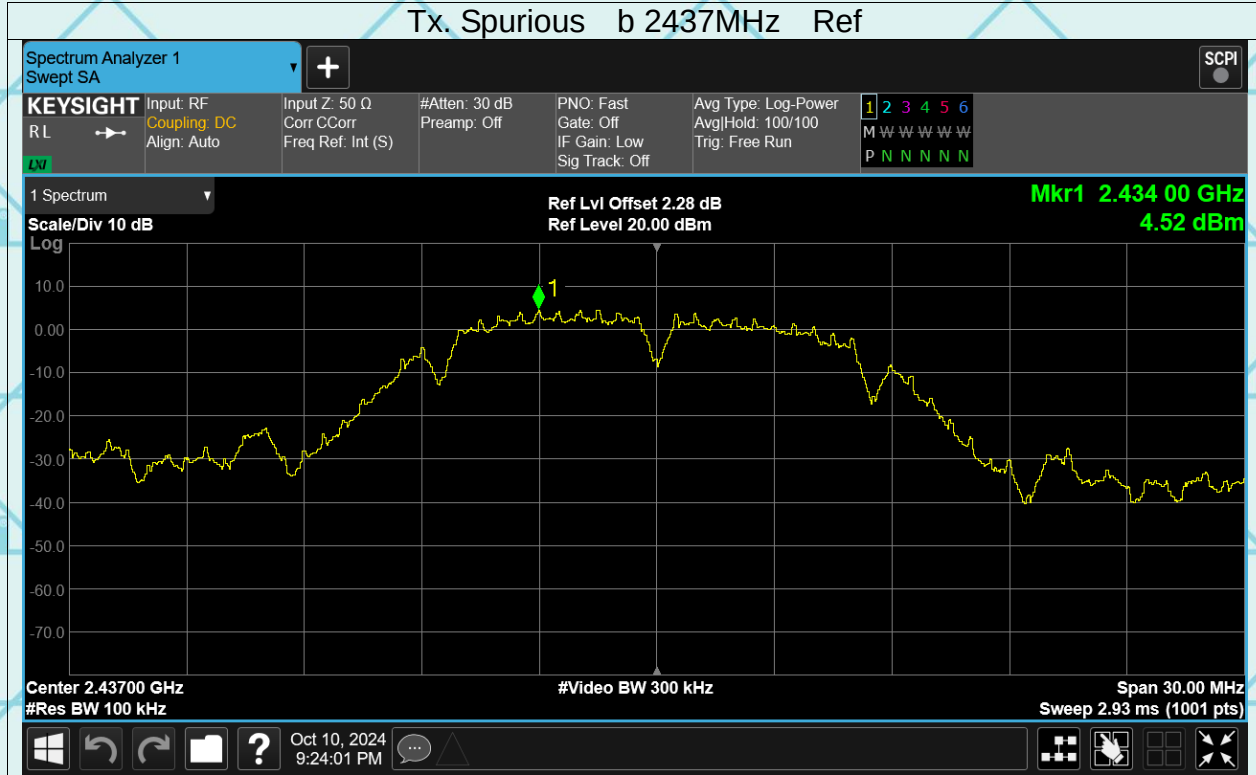
Conducted RF Spurious Emission

Test Graphs

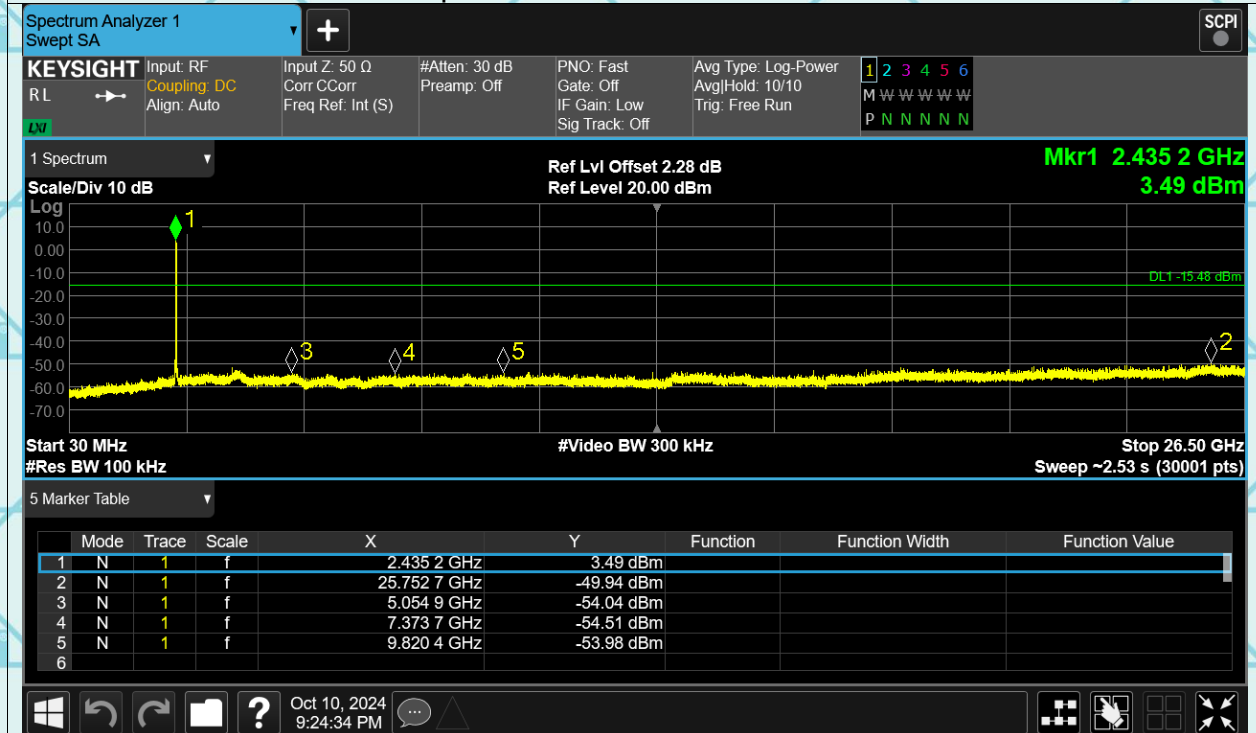


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious b 2437MHz Ref

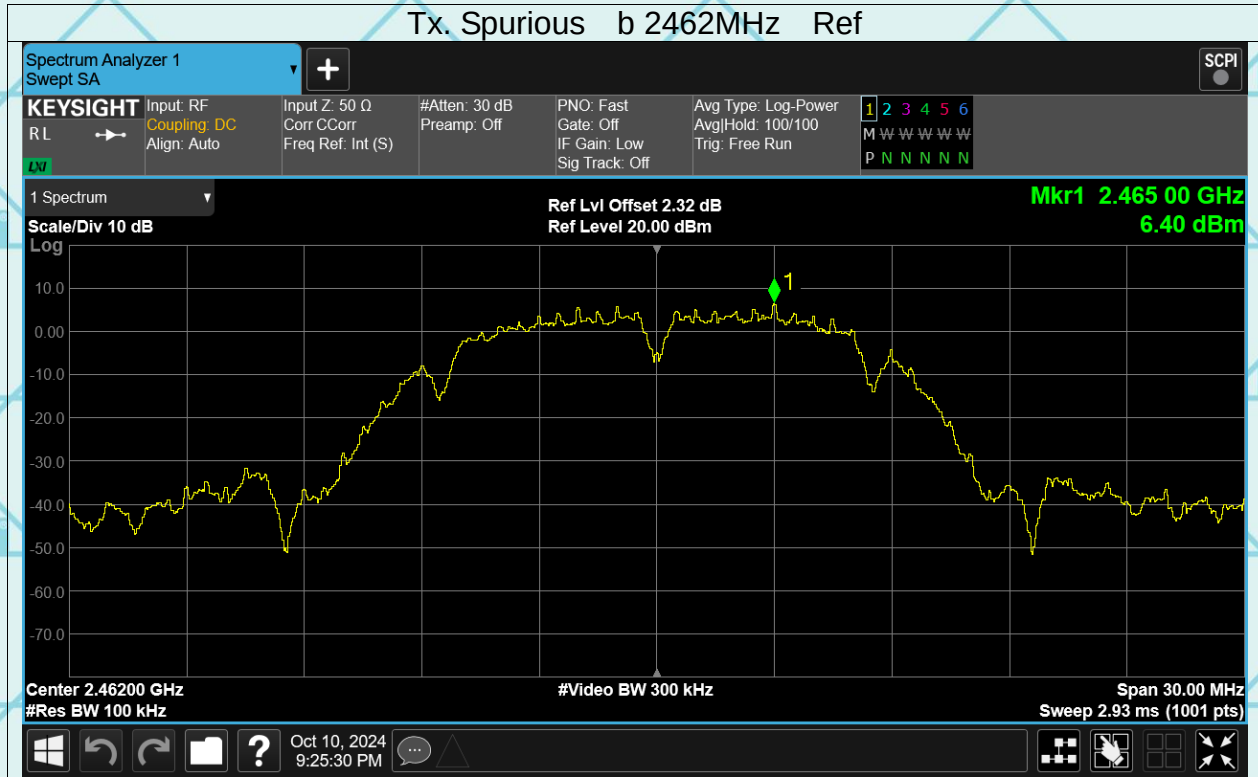


Tx. Spurious b 2437MHz Emission

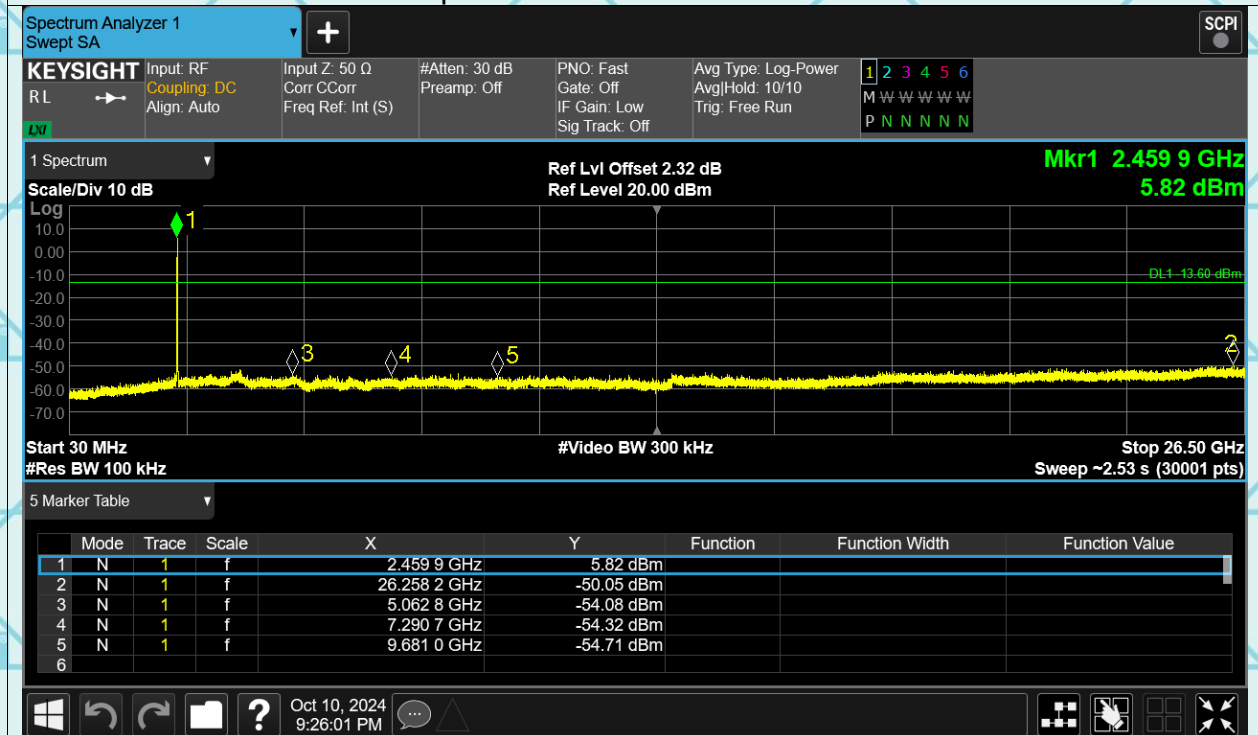


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious b 2462MHz Ref

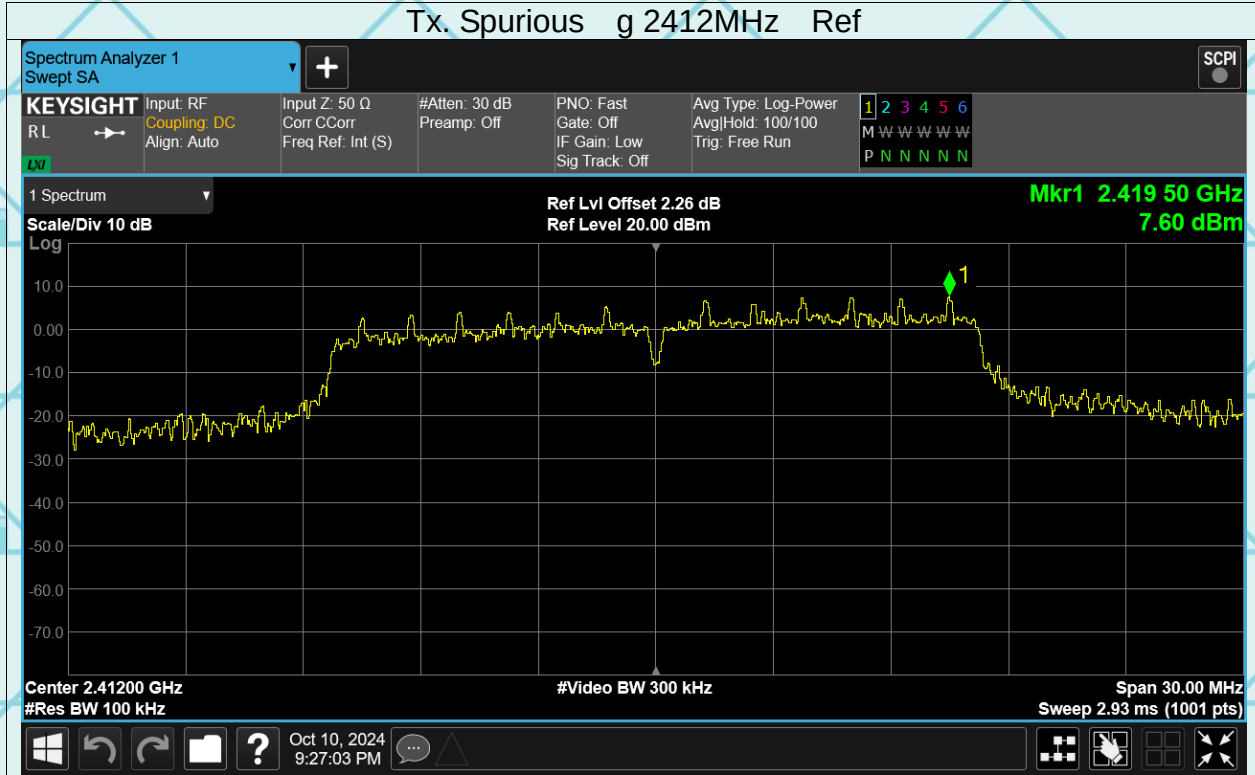


Tx. Spurious b 2462MHz Emission

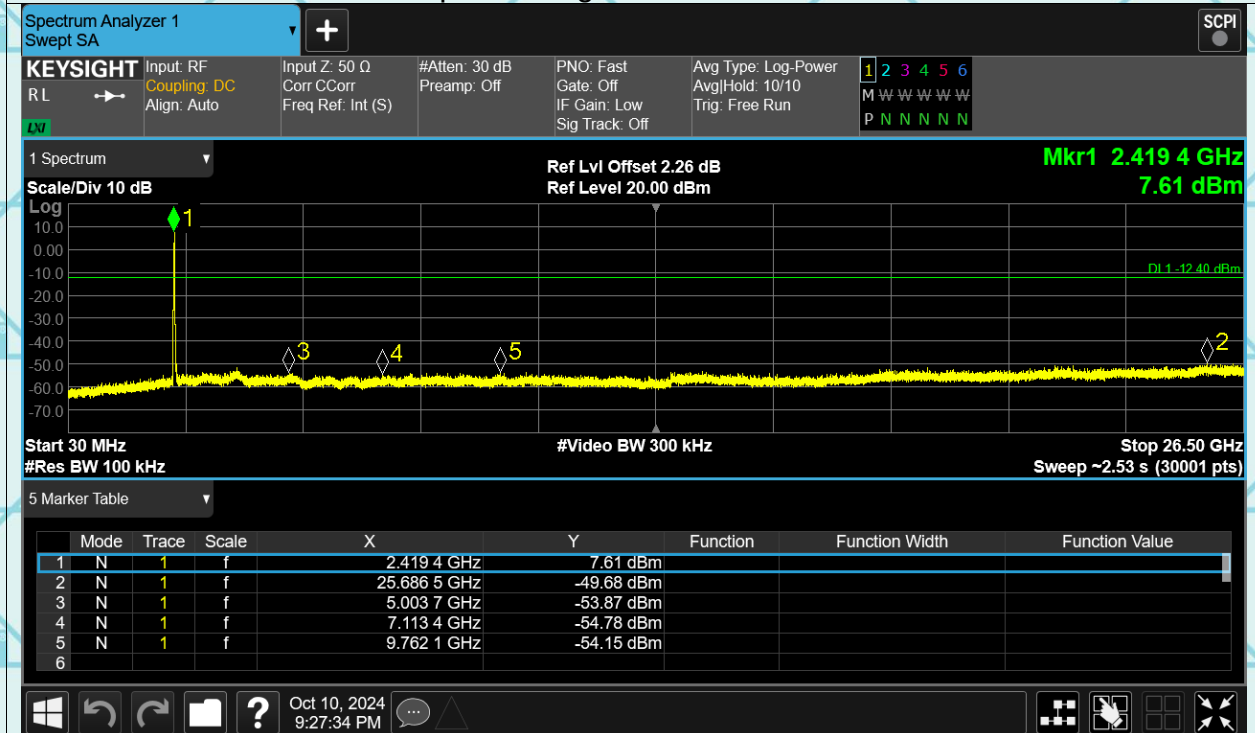


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious g 2412MHz Ref

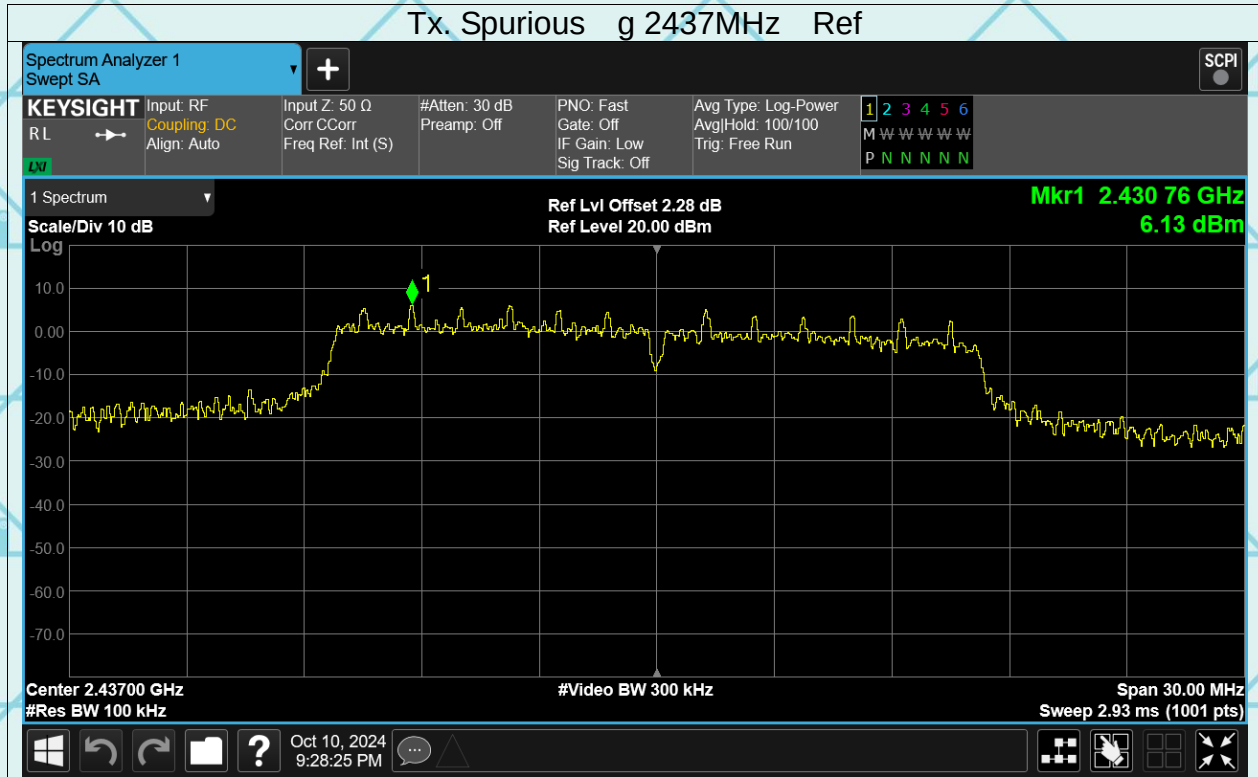


Tx. Spurious g 2412MHz Emission

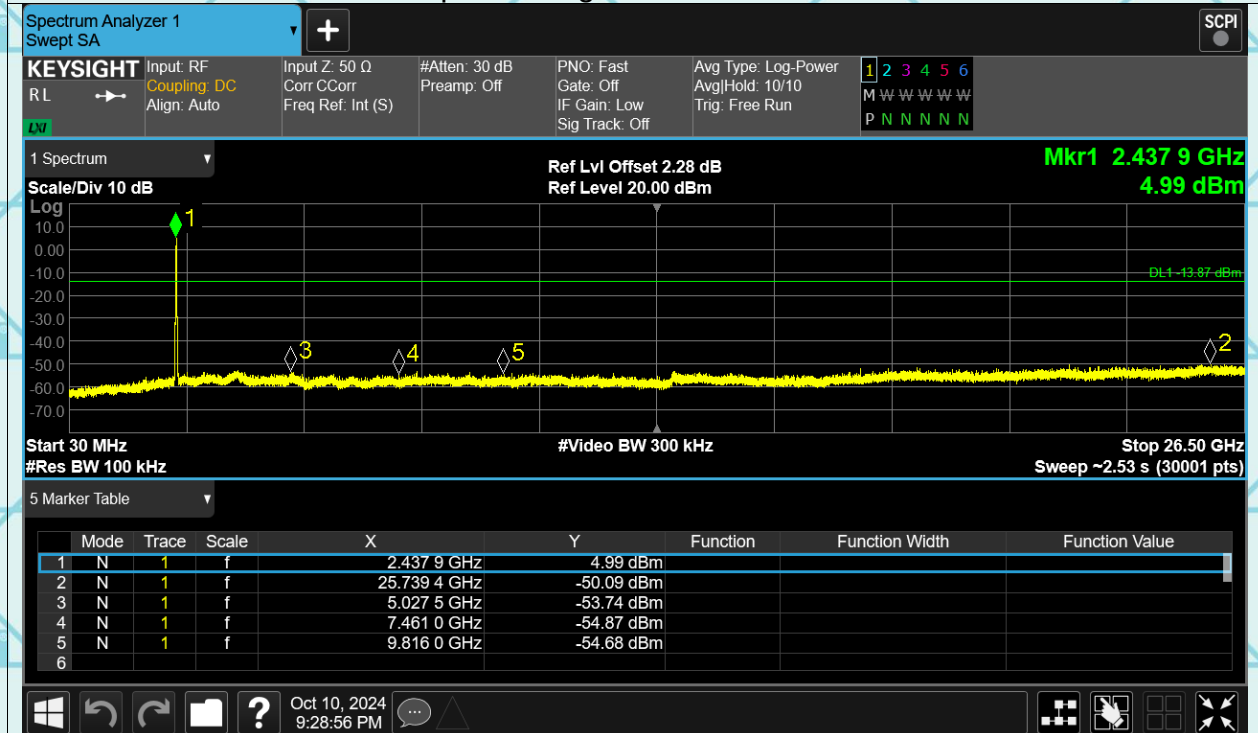


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious g 2437MHz Ref

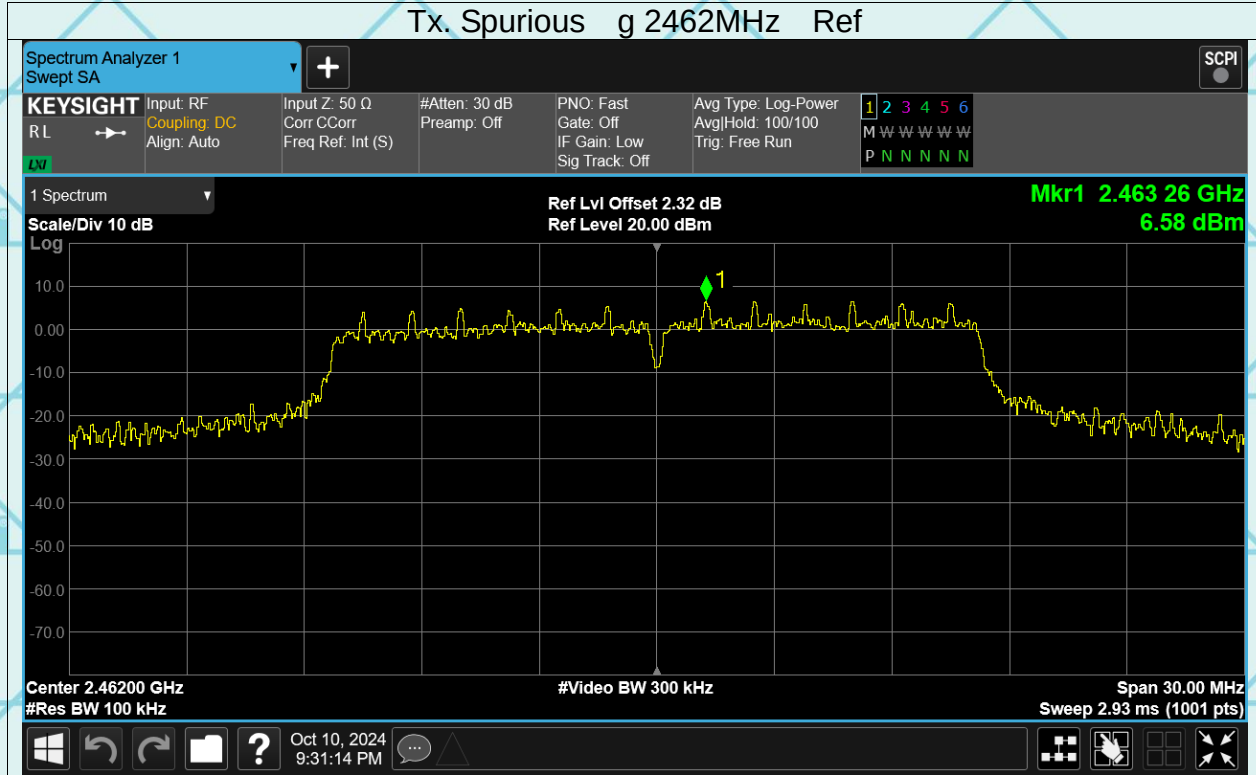


Tx. Spurious g 2437MHz Emission

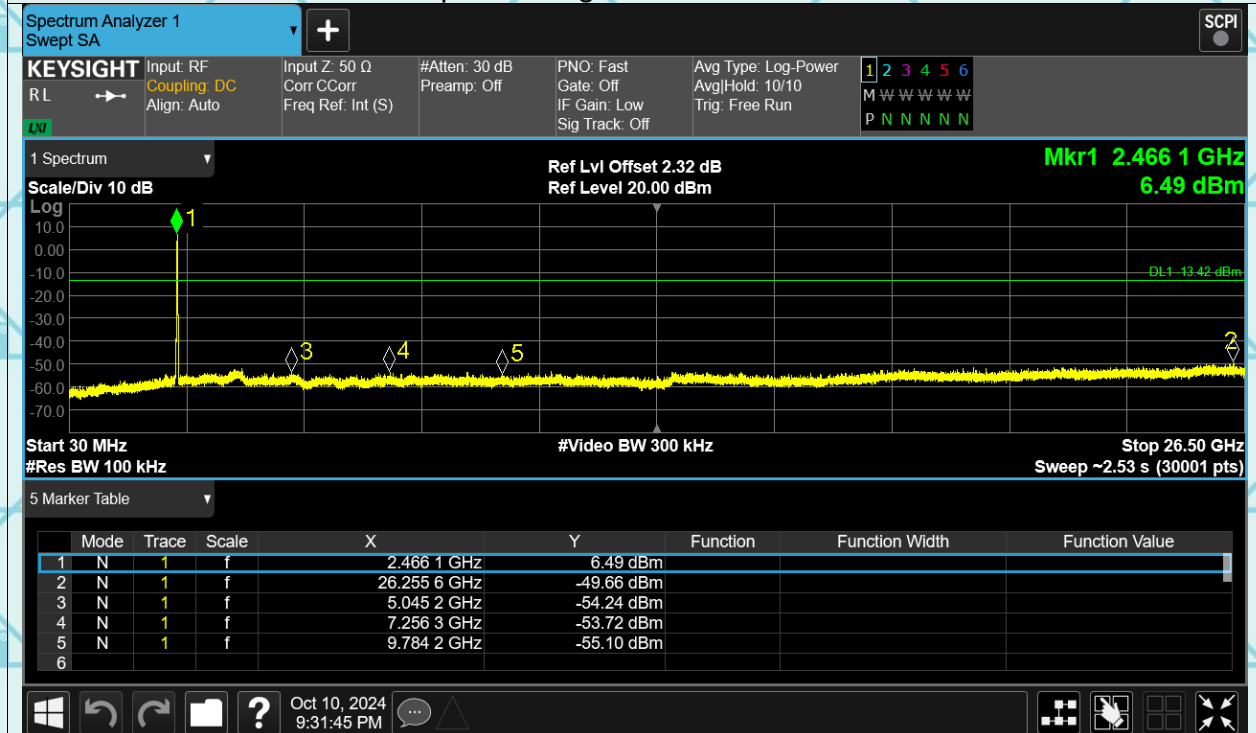


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious g 2462MHz Ref

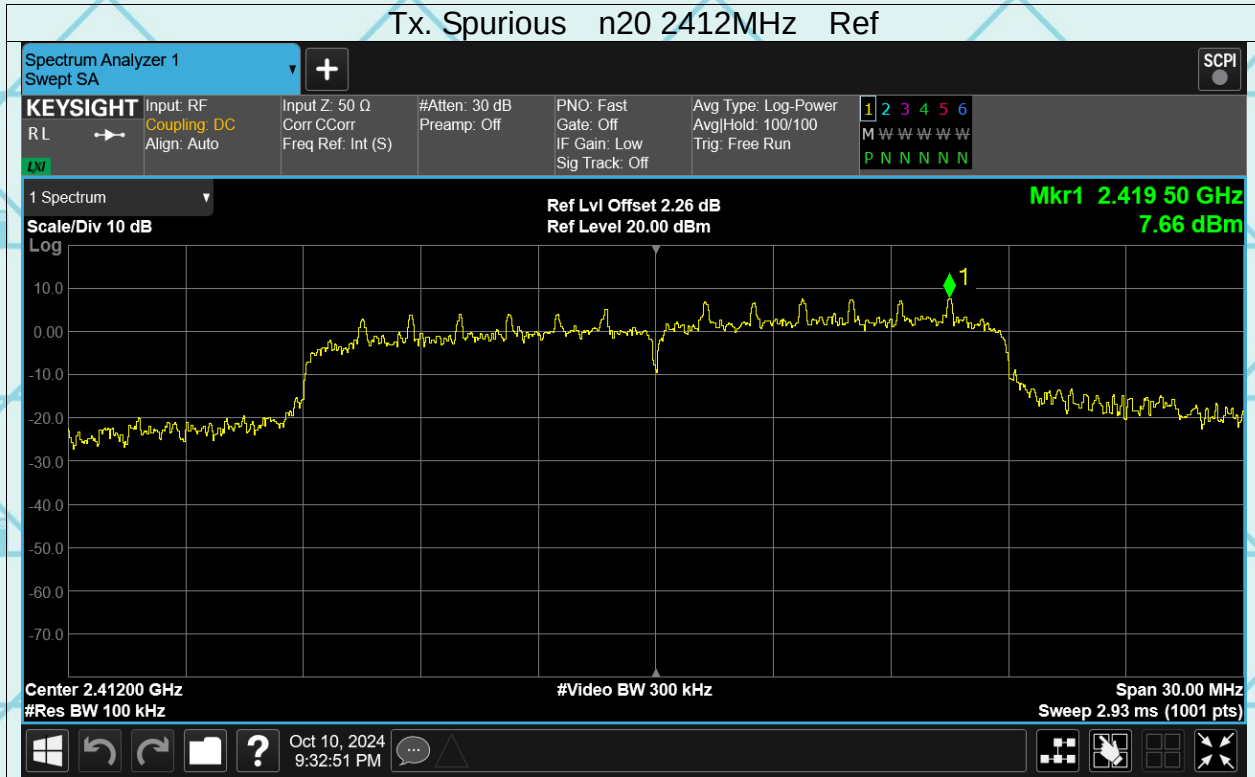


Tx. Spurious g 2462MHz Emission

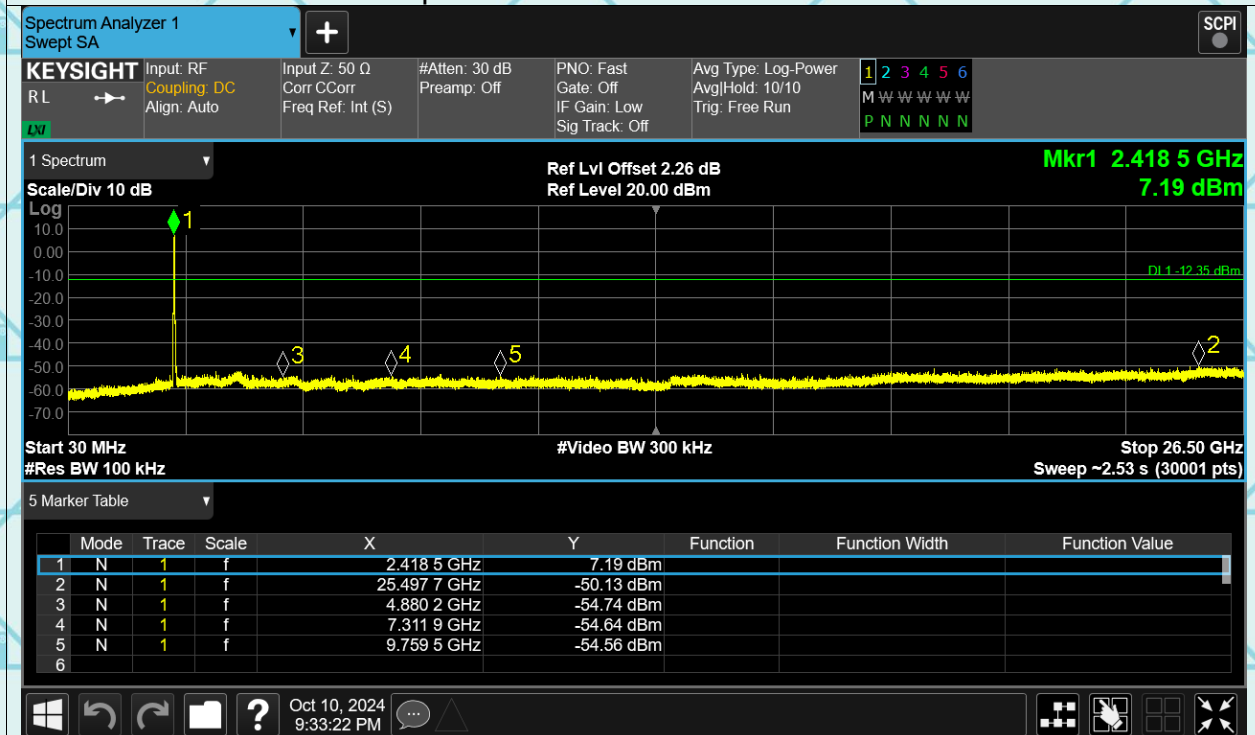


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious n20 2412MHz Ref

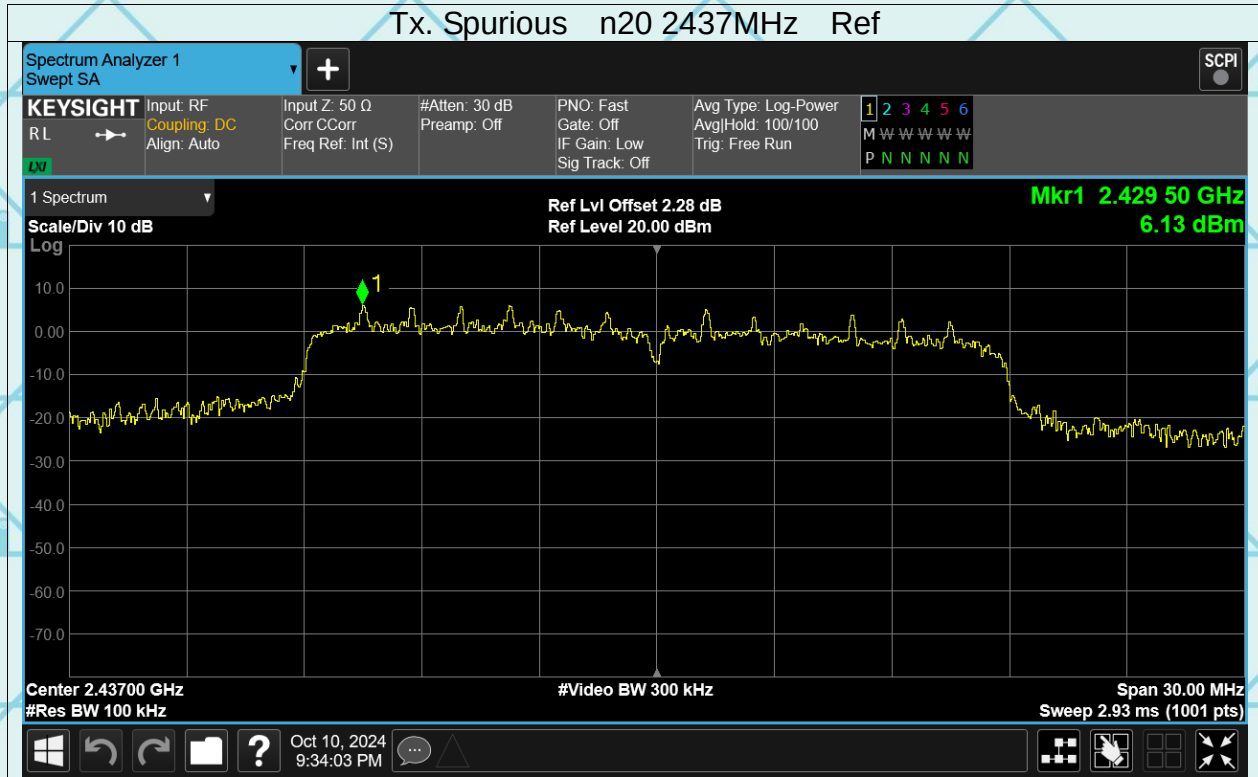


Tx. Spurious n20 2412MHz Emission

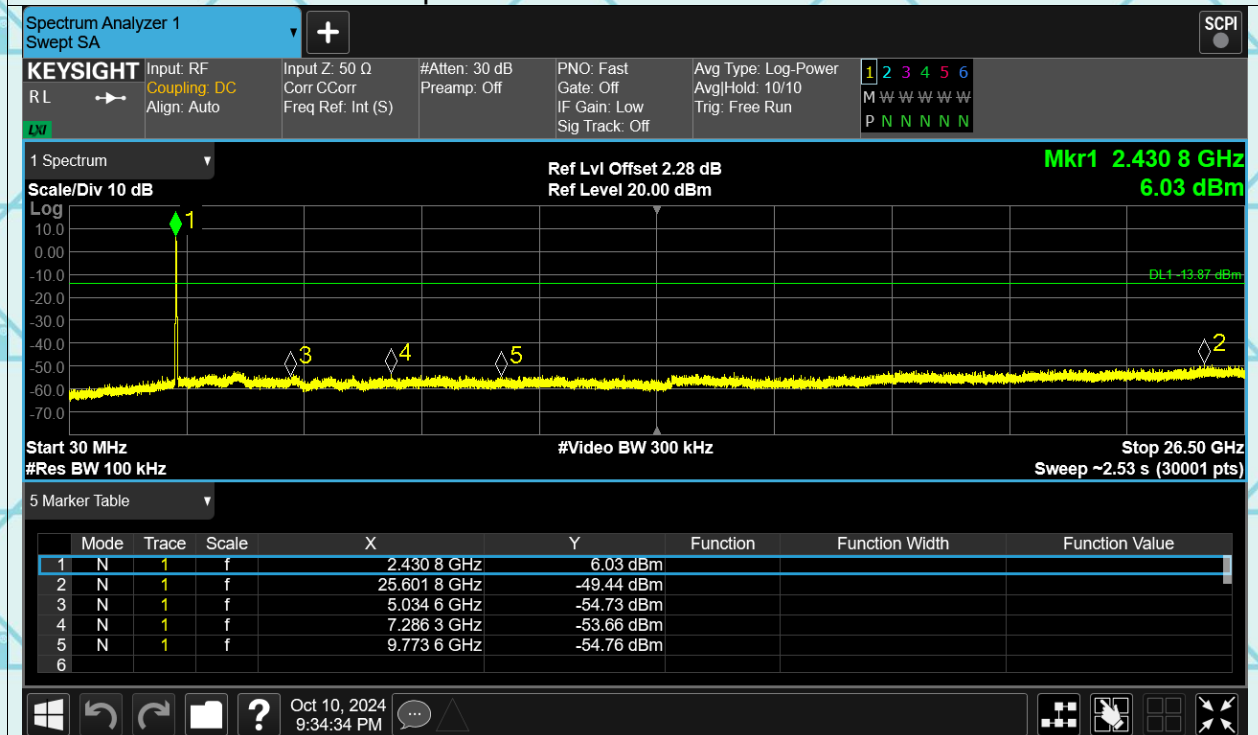


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious n20 2437MHz Ref

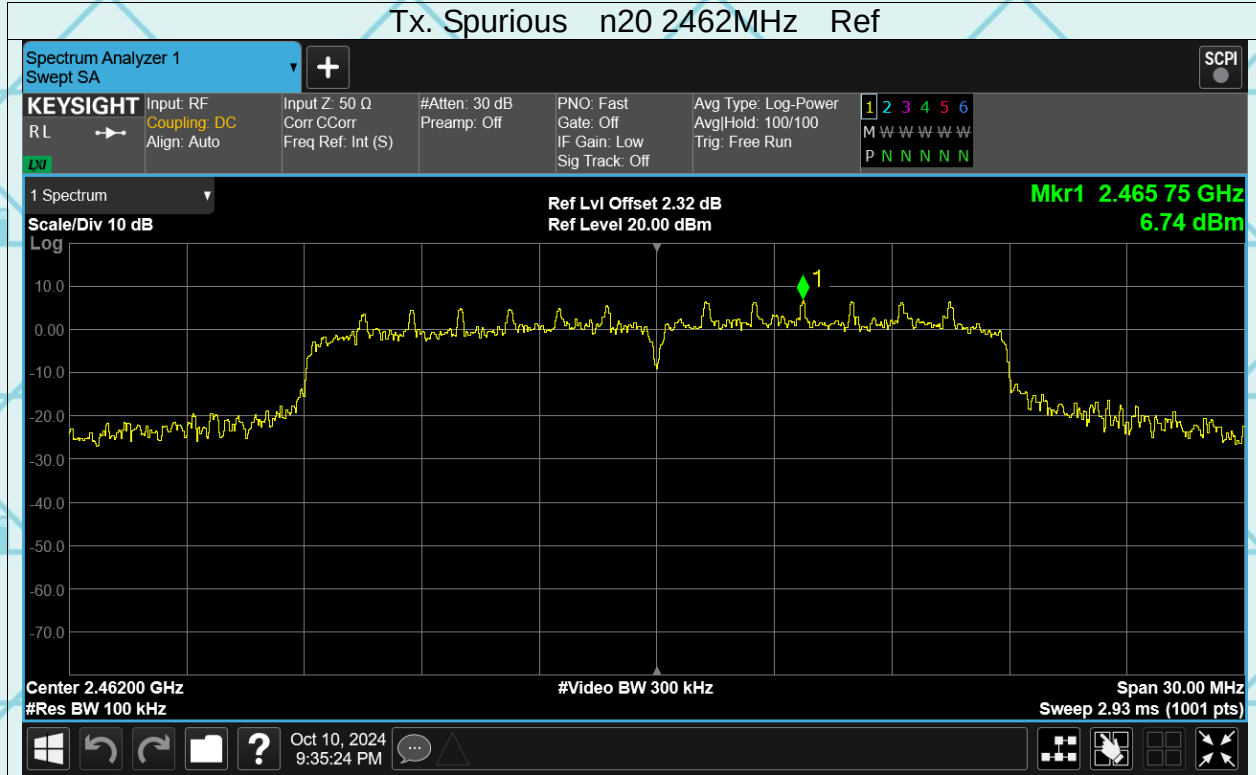


Tx. Spurious n20 2437MHz Emission

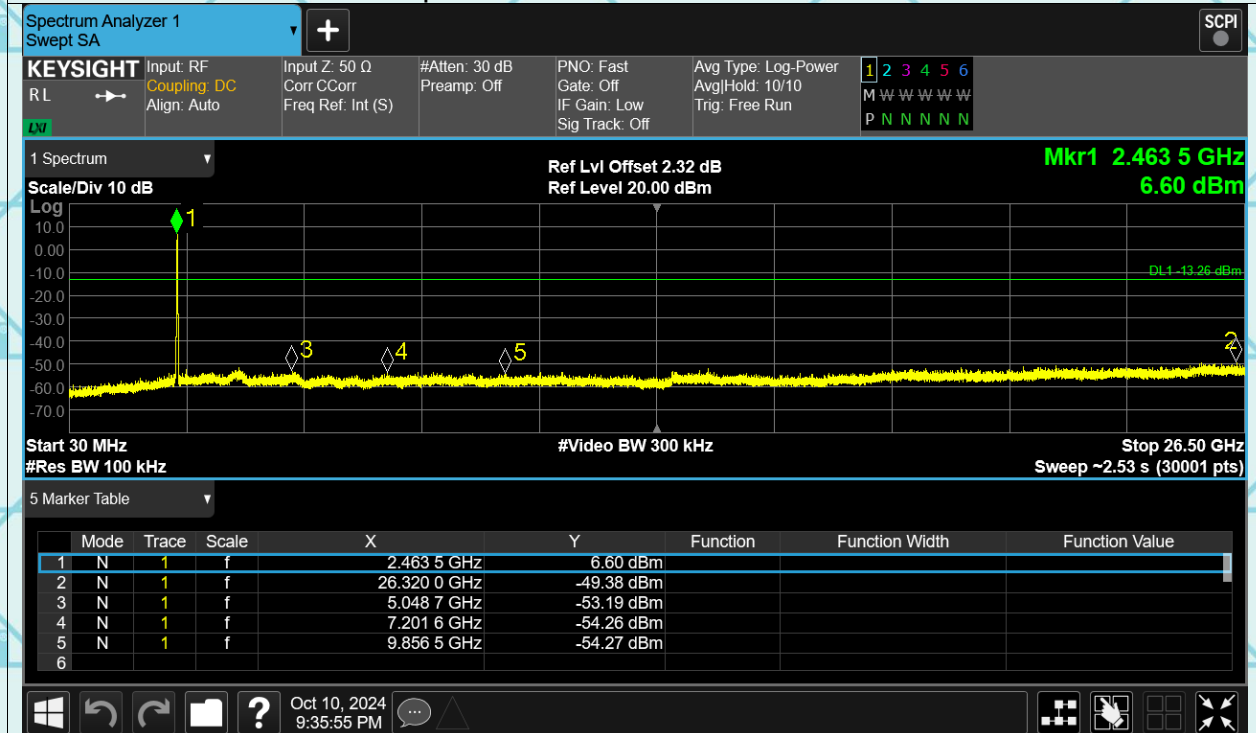


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious n20 2462MHz Ref

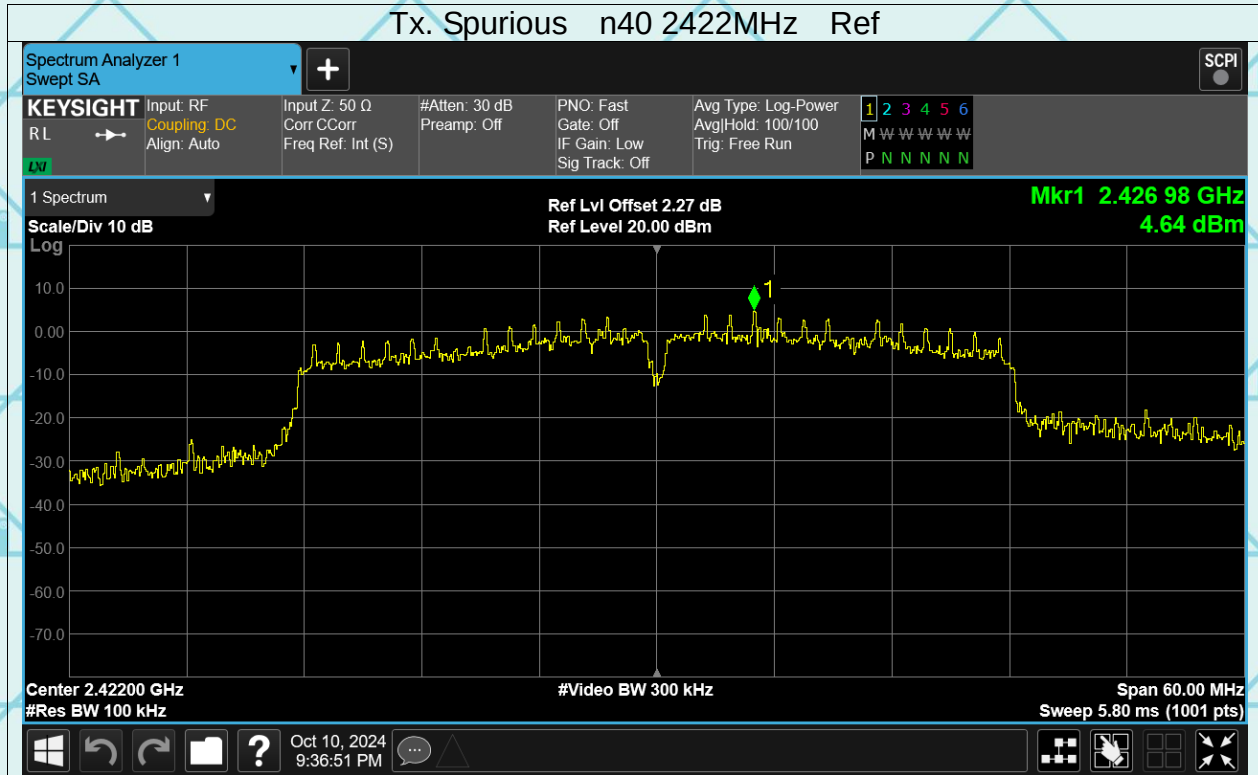


Tx. Spurious n20 2462MHz Emission

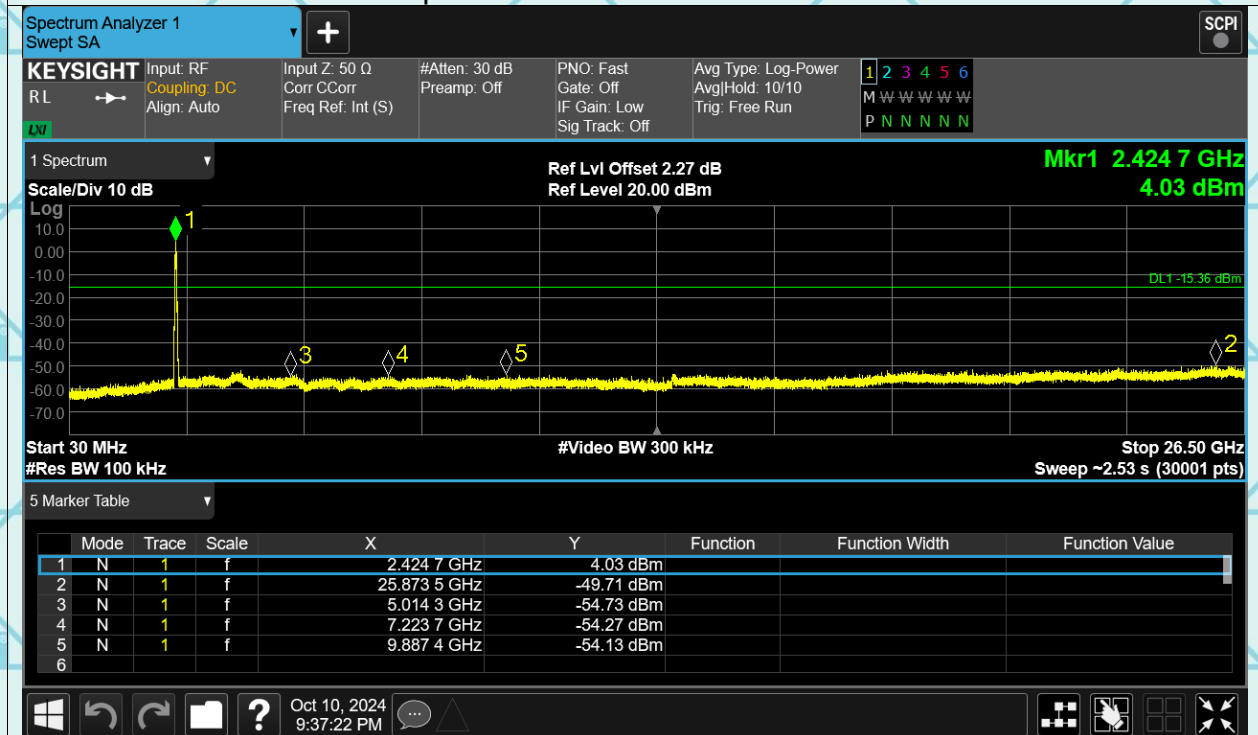


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious n40 2422MHz Ref

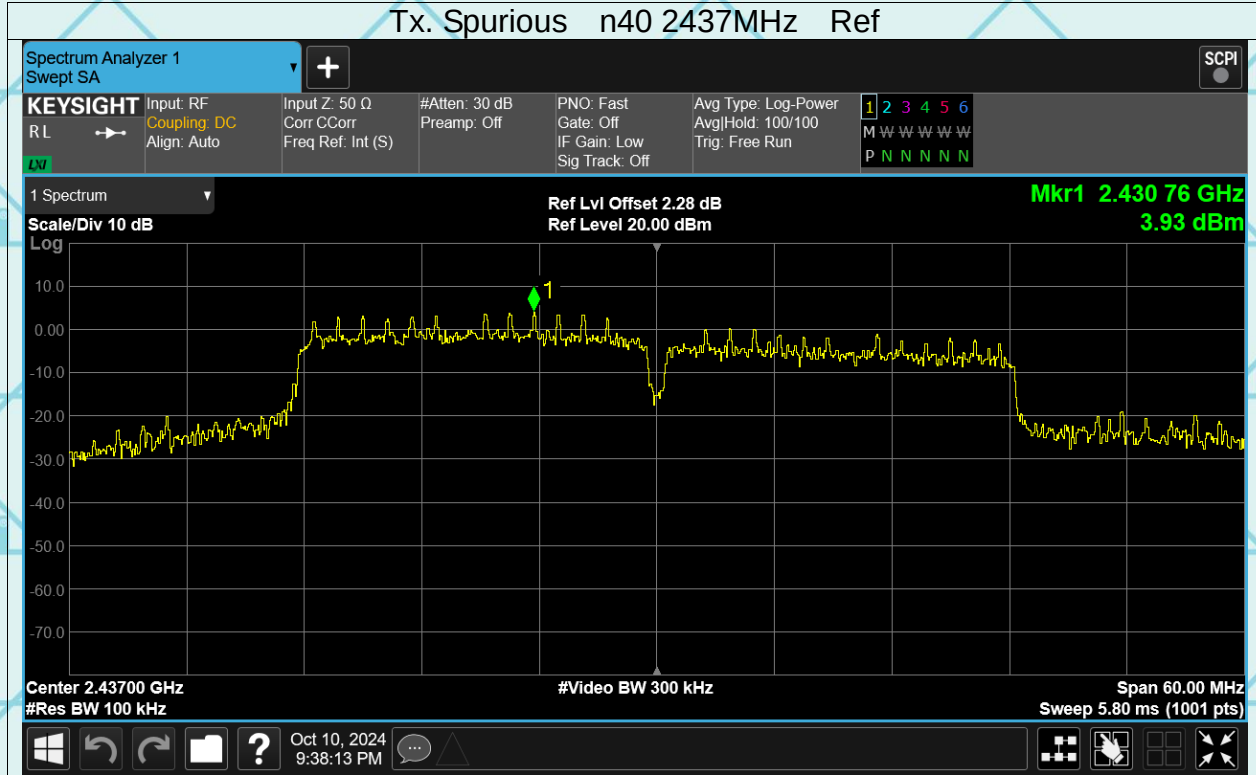


Tx. Spurious n40 2422MHz Emission

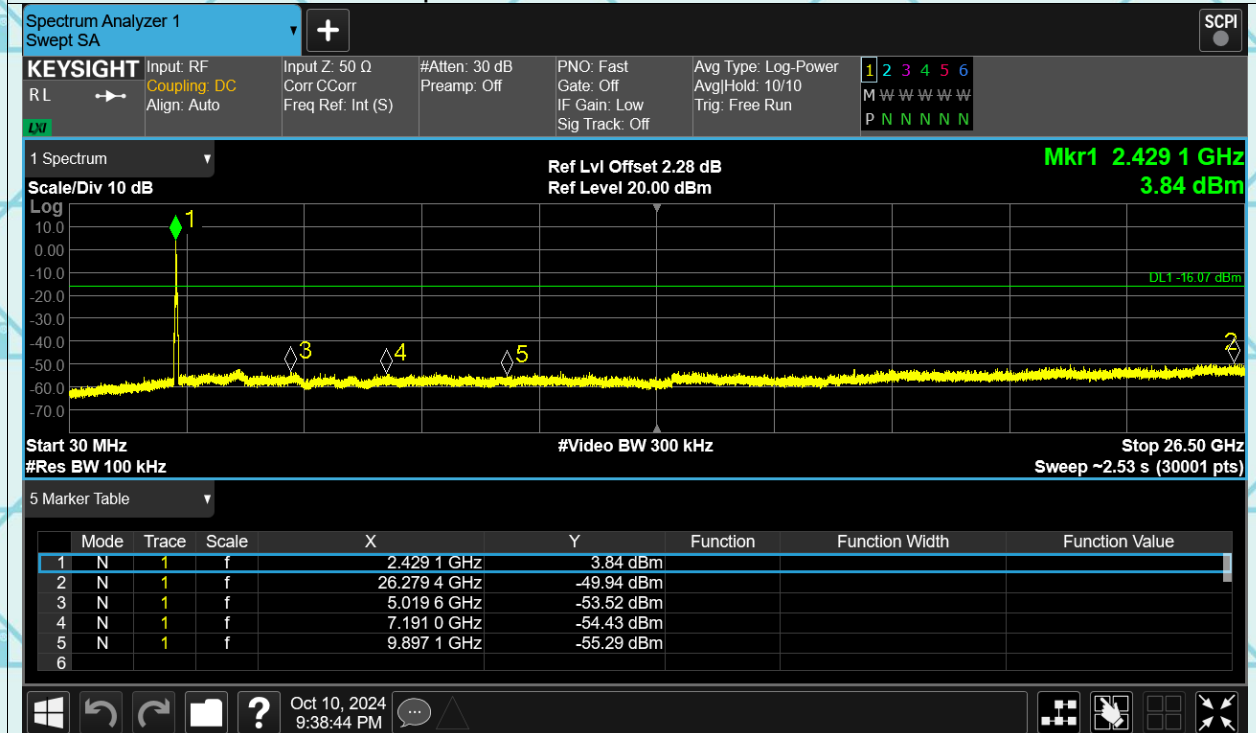


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious n40 2437MHz Ref

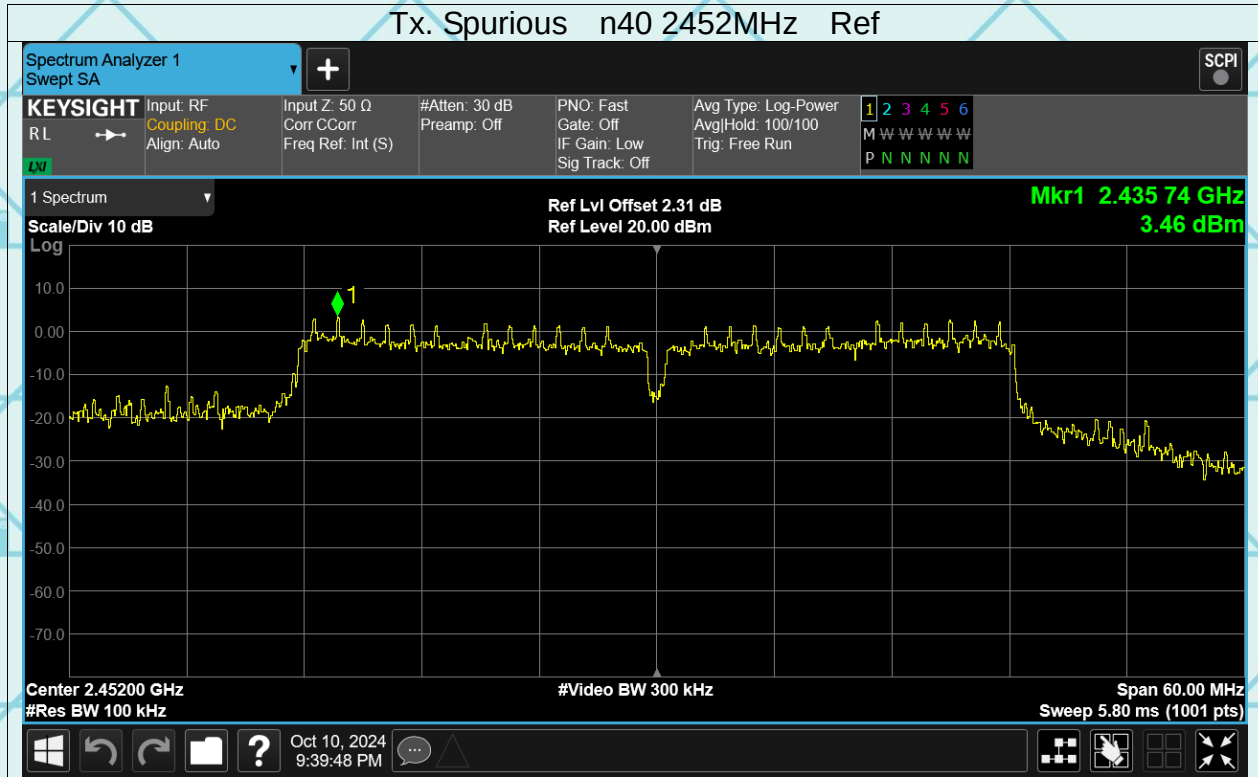


Tx. Spurious n40 2437MHz Emission

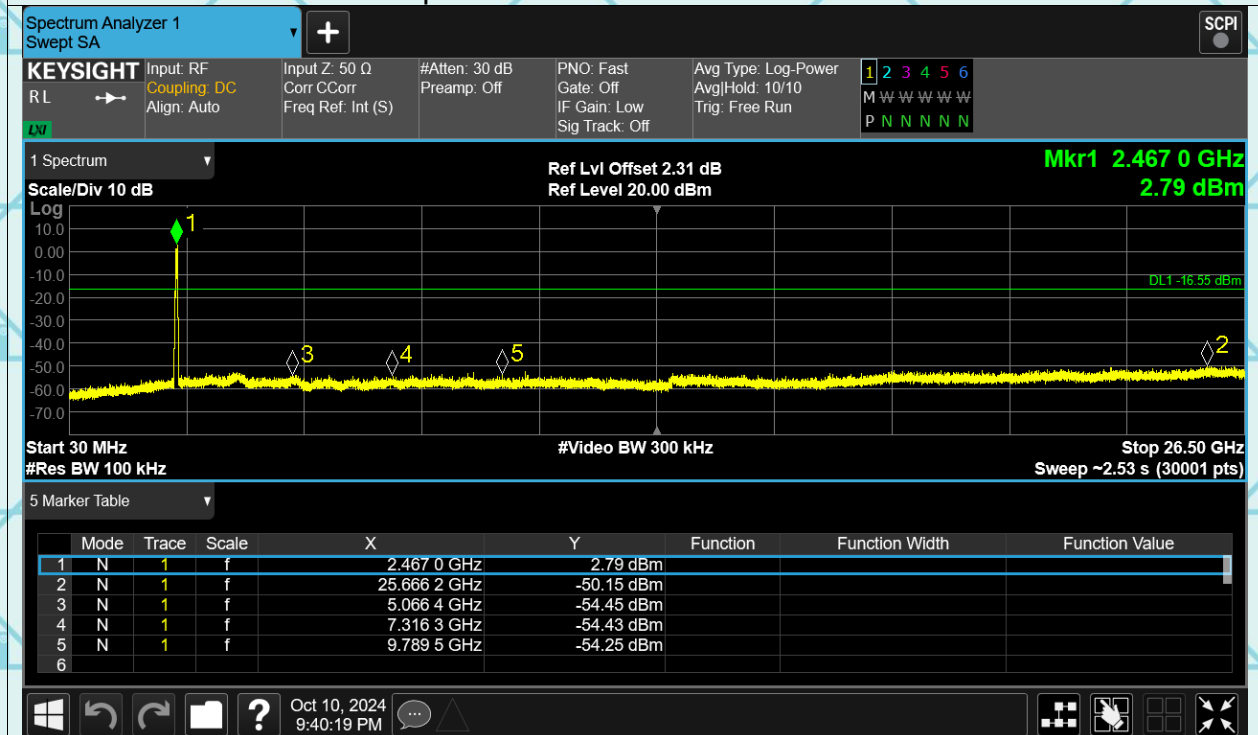


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

Tx. Spurious n40 2452MHz Ref



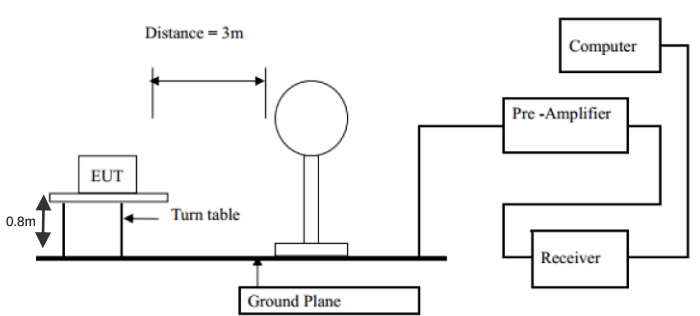
Tx. Spurious n40 2452MHz Emission

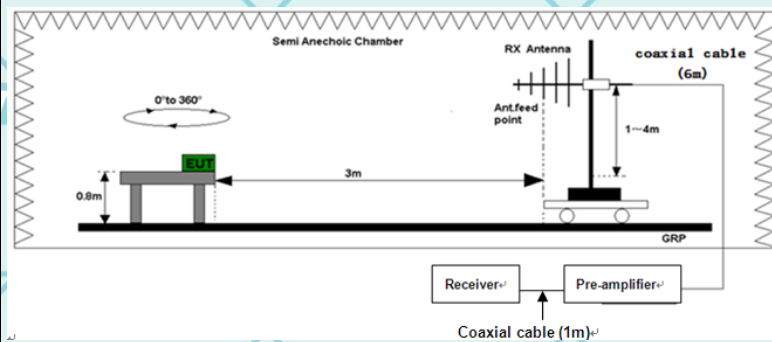


Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

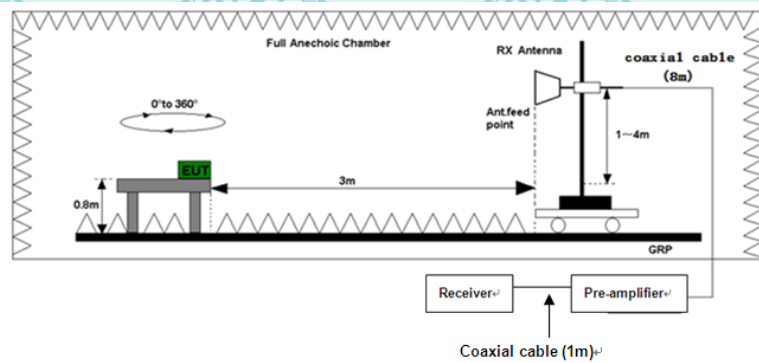
6.6. Radiated Spurious Emission Measurement

6.6.1. 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			
Operation mode:	Transmitting mode with modulation			
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			
	Quasi-peak Value			
	Quasi-peak Value			
	Quasi-peak Value			
	Peak Value			
Test setup:	Average Value			
Test setup:	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	
Test setup:	88-216	150	3	
	216-960	200	3	
	Above 960	500	3	
Test setup:	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:

- 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 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.

Report No.: WSCT-ANAB-R&E240900047A-Wi-Fi1

	3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level 4. 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. 5. 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 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.

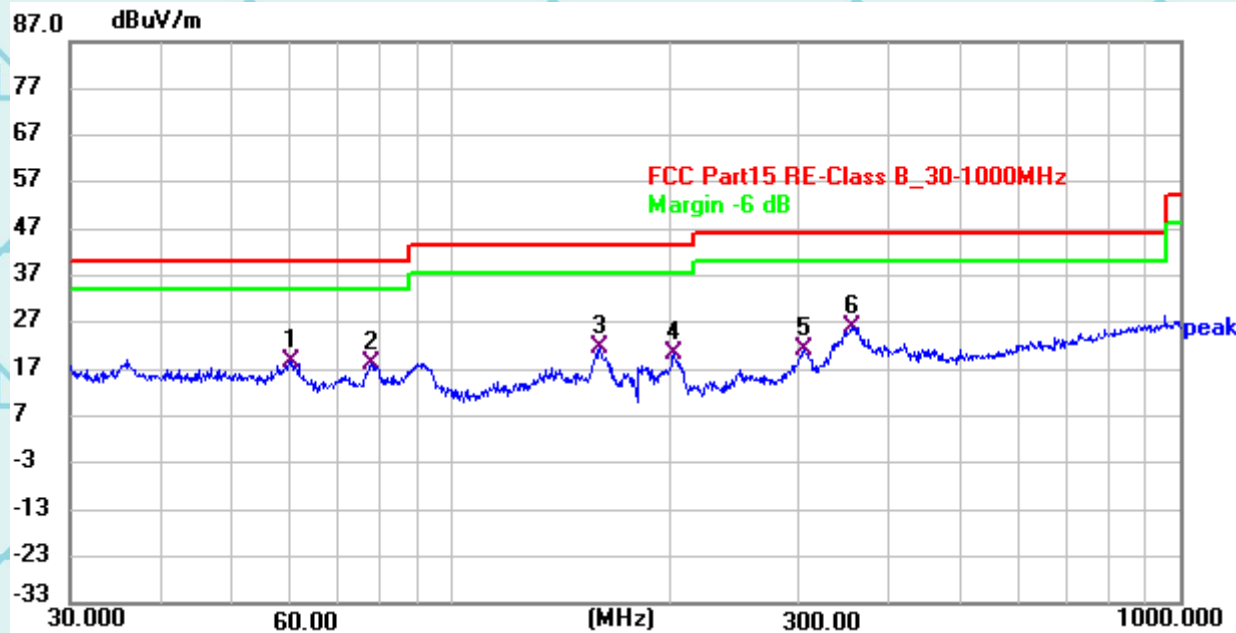
Note 4: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

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6.6.2. Test Data(worst)

Please refer to following diagram for individual
Below 1GHz

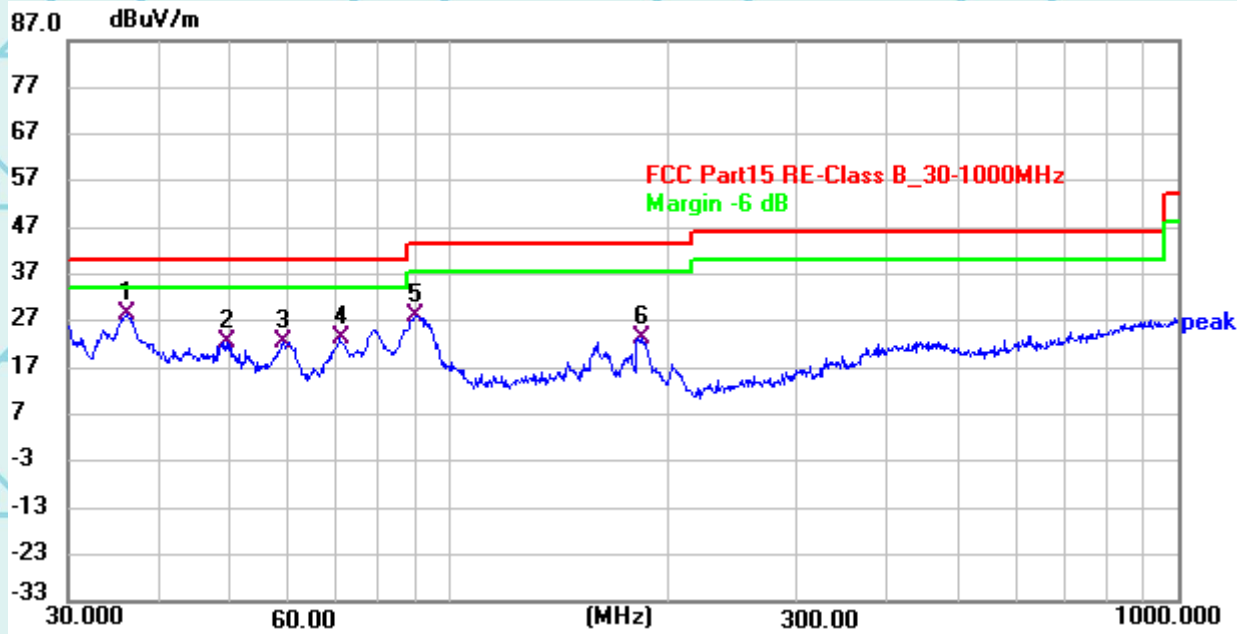
Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	60.3859	39.18	-20.44	18.74	40.00	-21.26	QP
2	77.6608	41.84	-23.68	18.16	40.00	-21.84	QP
3	160.2051	41.22	-19.66	21.56	43.50	-21.94	QP
4	202.5439	44.25	-23.95	20.30	43.50	-23.20	QP
5	305.8140	41.17	-20.05	21.12	46.00	-24.88	QP
6 *	355.2715	44.82	-19.04	25.78	46.00	-20.22	QP

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Vertical:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	36.3018	47.77	-19.44	28.33	40.00	-11.67	QP
2	49.6415	41.47	-18.96	22.51	40.00	-17.49	QP
3	59.3884	42.85	-20.37	22.48	40.00	-17.52	QP
4	70.9557	45.57	-22.36	23.21	40.00	-16.79	QP
5	90.1414	52.33	-24.09	28.24	43.50	-15.26	QP
6	184.4898	46.05	-22.63	23.42	43.50	-20.08	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) = Measurement (dBuV) – Limits (dBuV)

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Above 1GHz

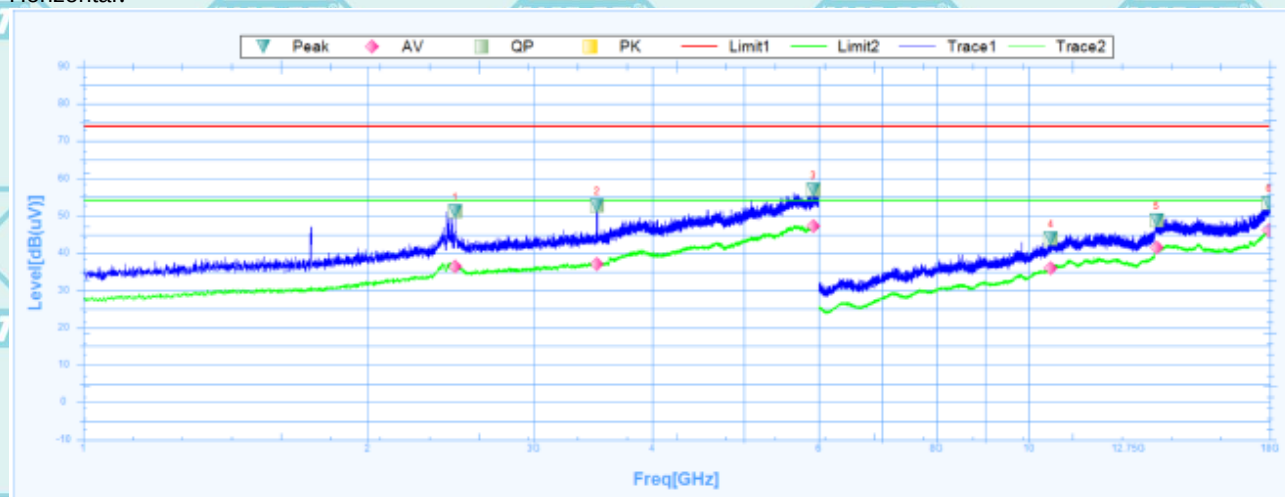
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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

Note 3: Report and only recorded the worst-case scenario 802.11b.

1 GHz to 18 GHz, ANT H 802.11b Low Channel

Horizontal:

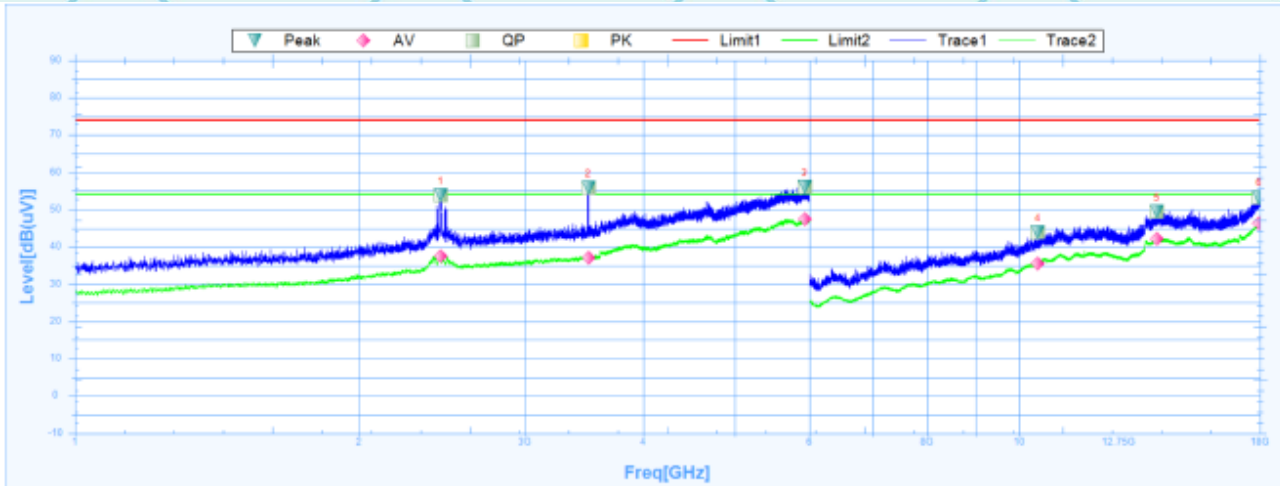


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2475.6250	51.19	27.52	23.67	74	-22.81	194.1	Horizontal	PK	Pass
1	2475.6250	36.33	27.52	8.81	54	-17.67	194.1	Horizontal	AV	Pass
2	3497.5000	52.68	28.5	24.18	74	-21.32	360	Horizontal	PK	Pass
2	3497.5000	37.02	28.5	8.52	54	-16.98	360	Horizontal	AV	Pass
3	5922.5000	56.91	32.68	24.23	74	-17.09	237.2	Horizontal	PK	Pass
3	5922.5000	47.16	32.68	14.48	54	-8.84	237.2	Horizontal	AV	Pass
4	10561.5000	43.98	14.18	29.8	74	-30.02	59.4	Horizontal	PK	Pass
4	10561.5000	35.85	14.18	21.67	54	-18.15	59.4	Horizontal	AV	Pass
5	13660.5000	48.77	18.15	30.62	74	-25.23	179	Horizontal	PK	Pass
5	13660.5000	41.39	18.15	23.24	54	-12.61	179	Horizontal	AV	Pass
6	17967.0000	53.5	23.7	29.8	74	-20.5	243.6	Horizontal	PK	Pass
6	17967.0000	46.21	23.7	22.51	54	-7.79	243.6	Horizontal	AV	Pass

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Vertical :

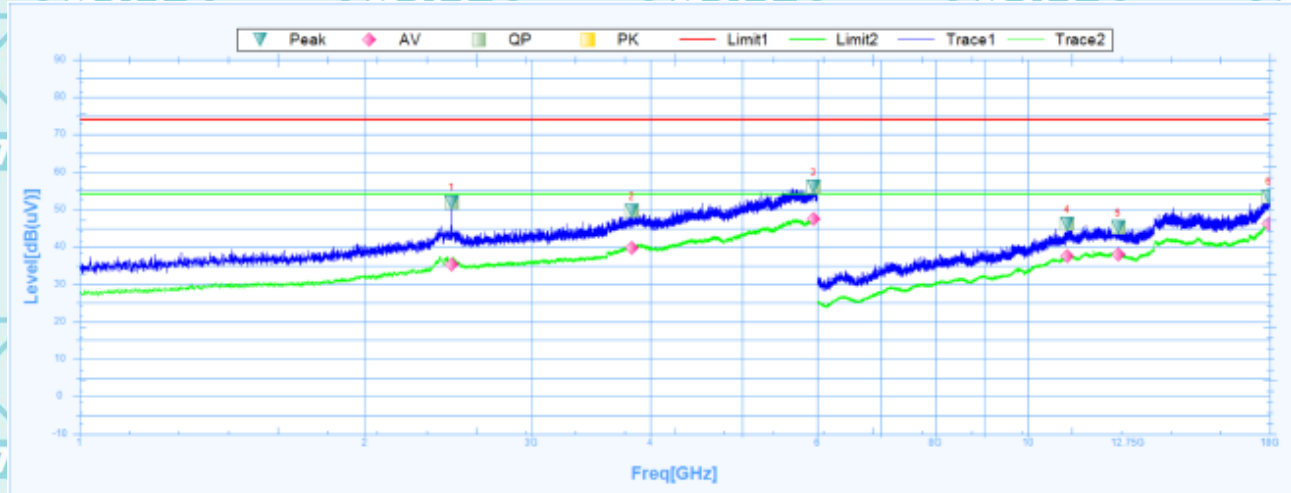


Suspected Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2439.3750	53.86	27.39	26.47	74	-20.14	360.1	Vertical	PK	Pass
1	2439.3750	37.49	27.39	10.1	54	-16.51	360.1	Vertical	AV	Pass
2	3498.1250	55.79	28.5	27.29	74	-18.21	116.5	Vertical	PK	Pass
2	3498.1250	37.05	28.5	8.55	54	-16.95	116.5	Vertical	AV	Pass
3	5930.6250	55.99	32.69	23.3	74	-18.01	108.2	Vertical	PK	Pass
3	5930.6250	47.54	32.69	14.85	54	-8.46	108.2	Vertical	AV	Pass
4	10474.5000	43.86	13.84	30.02	74	-30.14	13	Vertical	PK	Pass
4	10474.5000	35.6	13.84	21.76	54	-18.4	13	Vertical	AV	Pass
5	14002.5000	49.39	19.12	30.27	74	-24.61	73.8	Vertical	PK	Pass
5	14002.5000	42.09	19.12	22.97	54	-11.91	73.8	Vertical	AV	Pass
6	17959.5000	53.3	23.64	29.66	74	-20.7	54.6	Vertical	PK	Pass
6	17959.5000	46.42	23.64	22.78	54	-7.58	54.6	Vertical	AV	Pass

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1 GHz to 18 GHz, ANT H 802.11b Middle Channel

Horizontal:

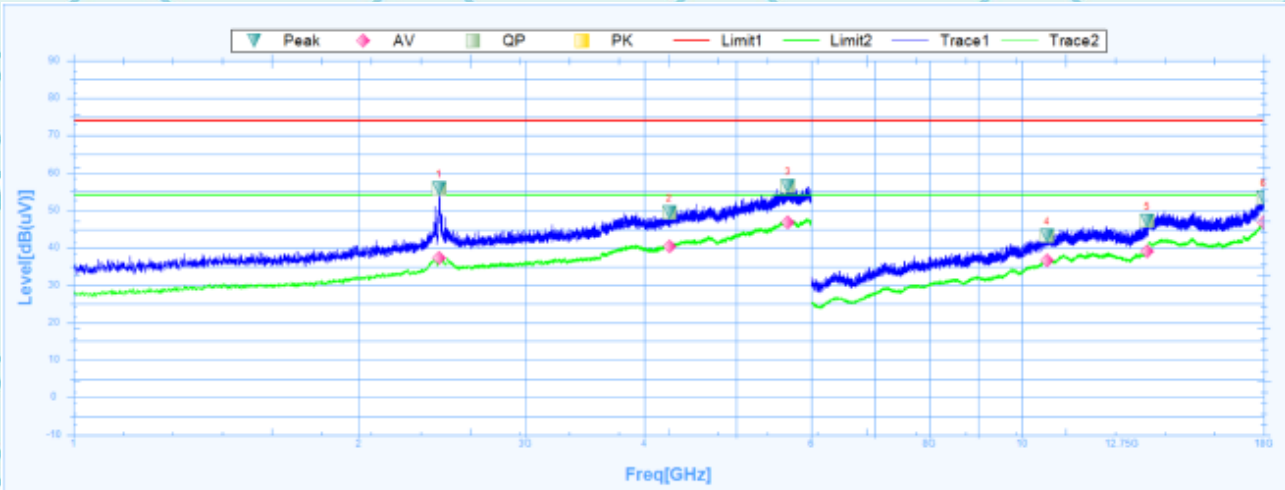


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2468.1250	51.96	27.49	24.47	74	-22.04	-0.1	Horizontal	PK	Pass
1	2468.1250	35.24	27.49	7.75	54	-18.76	-0.1	Horizontal	AV	Pass
2	3825.0000	49.7	29.28	20.42	74	-24.3	170.6	Horizontal	PK	Pass
2	3825.0000	39.75	29.28	10.47	54	-14.25	170.6	Horizontal	AV	Pass
3	5948.1250	56.06	32.72	23.34	74	-17.94	82.2	Horizontal	PK	Pass
3	5948.1250	47.45	32.72	14.73	54	-8.55	82.2	Horizontal	AV	Pass
4	11001.0000	48.2	15.62	30.58	74	-27.8	27.8	Horizontal	PK	Pass
4	11001.0000	37.49	15.62	21.87	54	-16.51	27.8	Horizontal	AV	Pass
5	12451.5000	45.26	16.46	28.8	74	-28.74	4.2	Horizontal	PK	Pass
5	12451.5000	38.02	16.46	21.56	54	-15.98	4.2	Horizontal	AV	Pass
6	17955.0000	53.51	23.61	29.9	74	-20.49	73.1	Horizontal	PK	Pass
6	17955.0000	46.23	23.61	22.62	54	-7.77	73.1	Horizontal	AV	Pass

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Vertical :

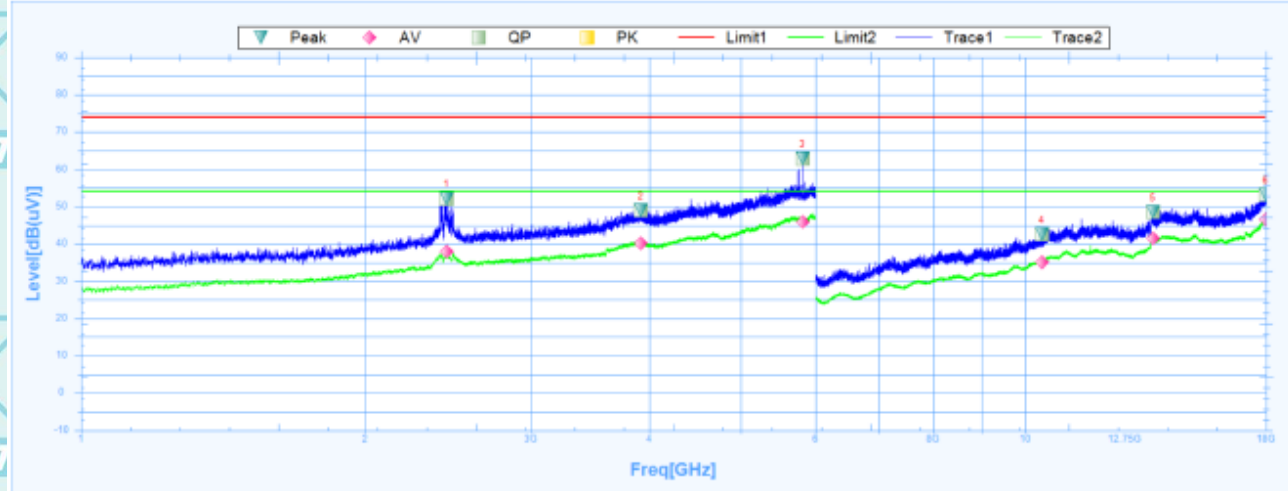


Suspected Data List										
NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2429.3750	55.93	27.36	28.57	74	-18.07	318.9	Vertical	PK	Pass
1	2429.3750	37.32	27.36	9.96	54	-16.68	318.9	Vertical	AV	Pass
2	4251.2500	49.4	30.15	19.25	74	-24.6	328.4	Vertical	PK	Pass
2	4251.2500	40.36	30.15	10.21	54	-13.64	328.4	Vertical	AV	Pass
3	5671.2500	56.57	32.27	24.3	74	-17.43	274.6	Vertical	PK	Pass
3	5671.2500	46.86	32.27	14.59	54	-7.14	274.6	Vertical	AV	Pass
4	10636.5000	43.28	14.46	28.82	74	-30.72	160.6	Vertical	PK	Pass
4	10636.5000	36.52	14.46	22.06	54	-17.48	160.6	Vertical	AV	Pass
5	13560.0000	47.22	17.86	29.36	74	-26.78	15.7	Vertical	PK	Pass
5	13560.0000	39.01	17.86	21.15	54	-14.99	15.7	Vertical	AV	Pass
6	17991.0000	53.43	23.87	29.56	74	-20.57	357	Vertical	PK	Pass
6	17991.0000	46.72	23.87	22.85	54	-7.28	357	Vertical	AV	Pass

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1 GHz to 18 GHz, ANT H 802.11b High Channel

Horizontal:

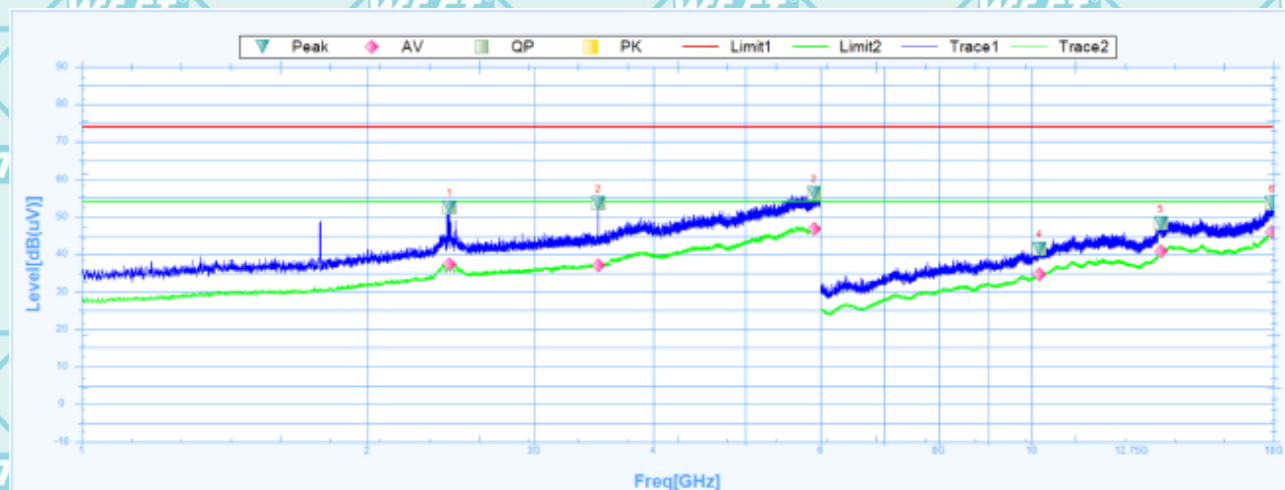


Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2438.1250	52.18	27.39	24.79	74	-21.82	31.9	Horizontal	PK	Pass
1	2438.1250	38.02	27.39	10.63	54	-15.98	31.9	Horizontal	AV	Pass
2	3917.5000	49.02	29.5	19.52	74	-24.98	228	Horizontal	PK	Pass
2	3917.5000	40.25	29.5	10.75	54	-13.75	228	Horizontal	AV	Pass
3	5813.7500	62.85	32.5	30.35	74	-11.15	158.2	Horizontal	PK	Pass
3	5813.7500	48.01	32.5	15.51	54	-7.99	158.2	Horizontal	AV	Pass
4	10416.0000	42.48	13.84	28.64	74	-31.52	298.2	Horizontal	PK	Pass
4	10416.0000	35.09	13.84	21.25	54	-18.91	298.2	Horizontal	AV	Pass
5	13659.0000	48.58	18.14	30.42	74	-25.44	301.8	Horizontal	PK	Pass
5	13659.0000	41.54	18.14	23.4	54	-12.46	301.8	Horizontal	AV	Pass
6	17985.0000	53.28	23.82	29.44	74	-20.74	187	Horizontal	PK	Pass
6	17985.0000	46.53	23.82	22.71	54	-7.47	187	Horizontal	AV	Pass

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Vertical :



Susputed Data List

NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
1	2440.6250	52.45	27.4	25.05	74	-21.55	118.1	Vertical	PK	Pass
1	2440.6250	37.19	27.4	9.79	54	-16.81	118.1	Vertical	AV	Pass
2	3501.2500	53.56	28.5	25.06	74	-20.44	320.1	Vertical	PK	Pass
2	3501.2500	36.99	28.5	8.49	54	-17.01	320.1	Vertical	AV	Pass
3	5905.6250	56.19	32.65	23.54	74	-17.81	291.4	Vertical	PK	Pass
3	5905.6250	46.8	32.65	14.15	54	-7.2	291.4	Vertical	AV	Pass
4	10197.0000	41.55	12.97	28.58	74	-32.45	102.1	Vertical	PK	Pass
4	10197.0000	34.59	12.97	21.62	54	-19.41	102.1	Vertical	AV	Pass
5	13684.5000	48.26	18.21	30.05	74	-25.74	360	Vertical	PK	Pass
5	13684.5000	40.9	18.21	22.69	54	-13.1	360	Vertical	AV	Pass
6	17923.5000	53.61	23.41	30.2	74	-20.39	118.8	Vertical	PK	Pass
6	17923.5000	45.94	23.41	22.53	54	-8.06	118.8	Vertical	AV	Pass

Note:

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
2. Emission Level= Reading Level+ Probe Factor +Cable Loss.
3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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7. Test Setup Photographs

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

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