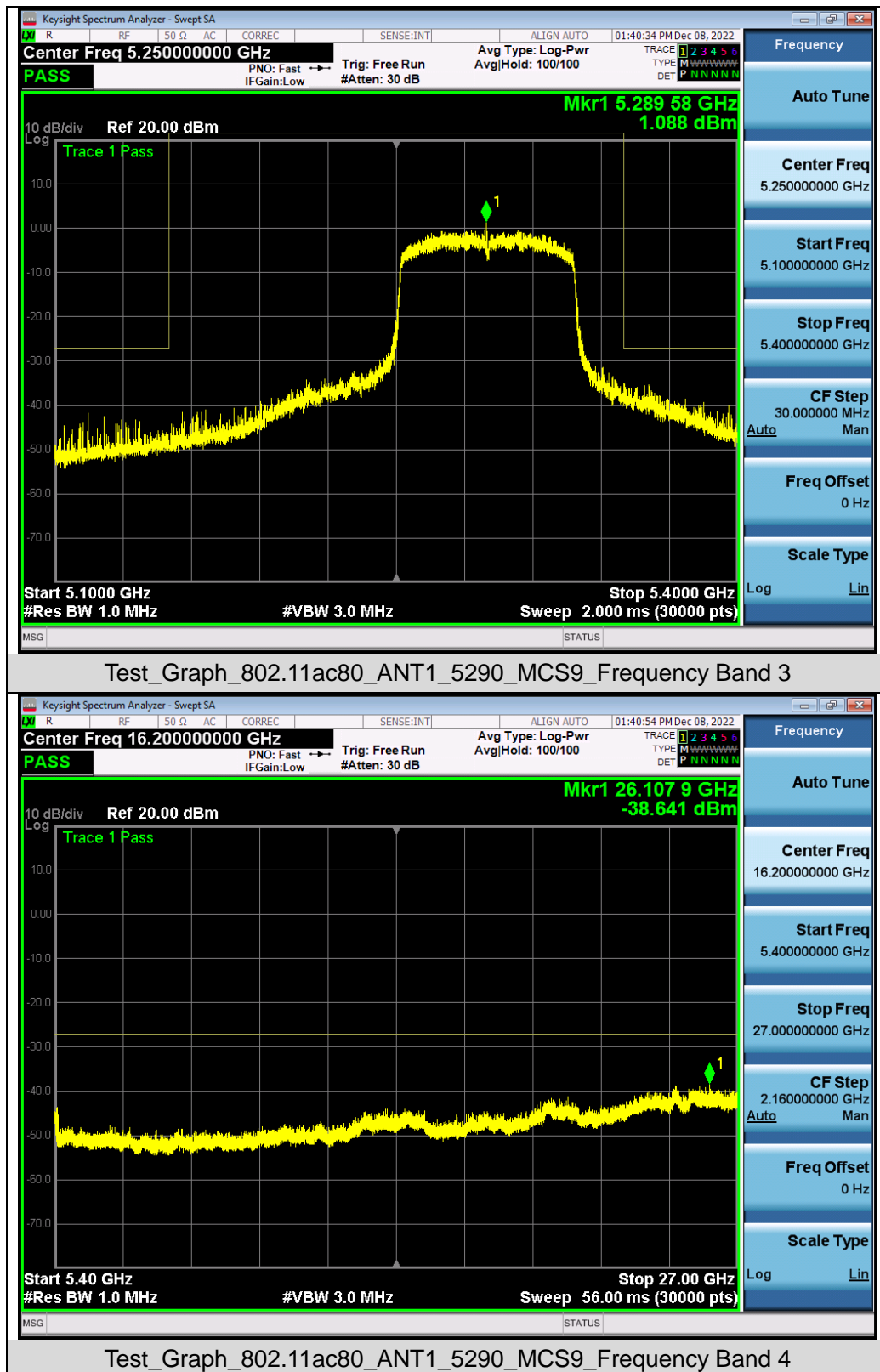
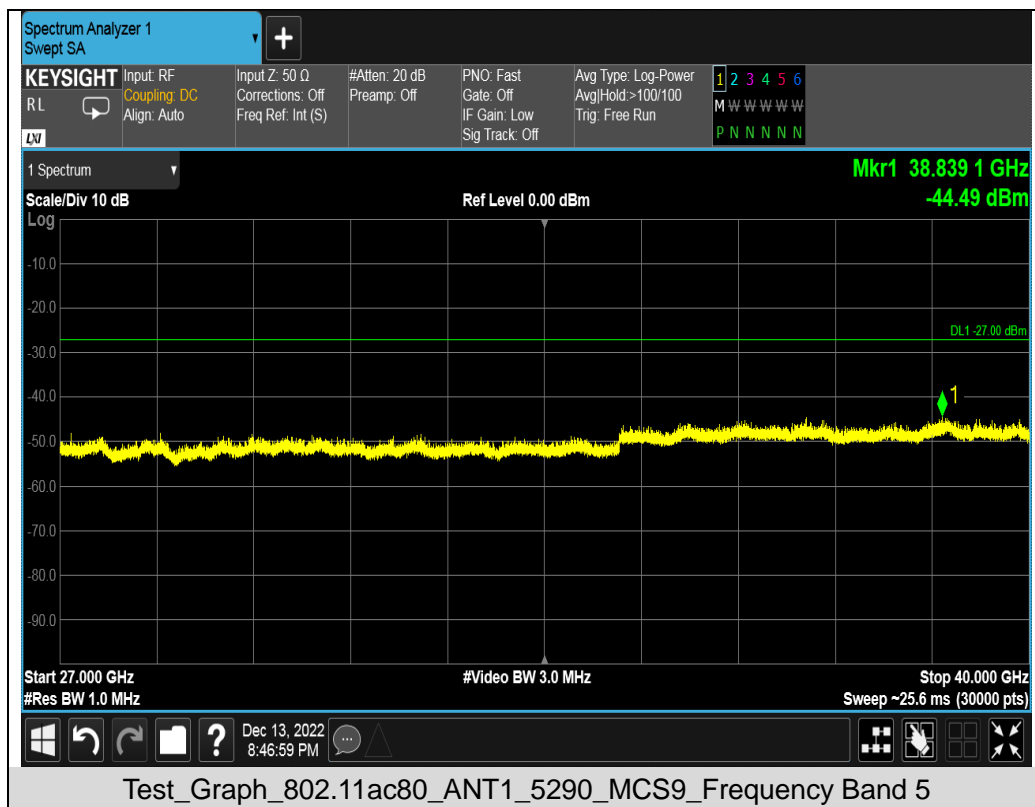


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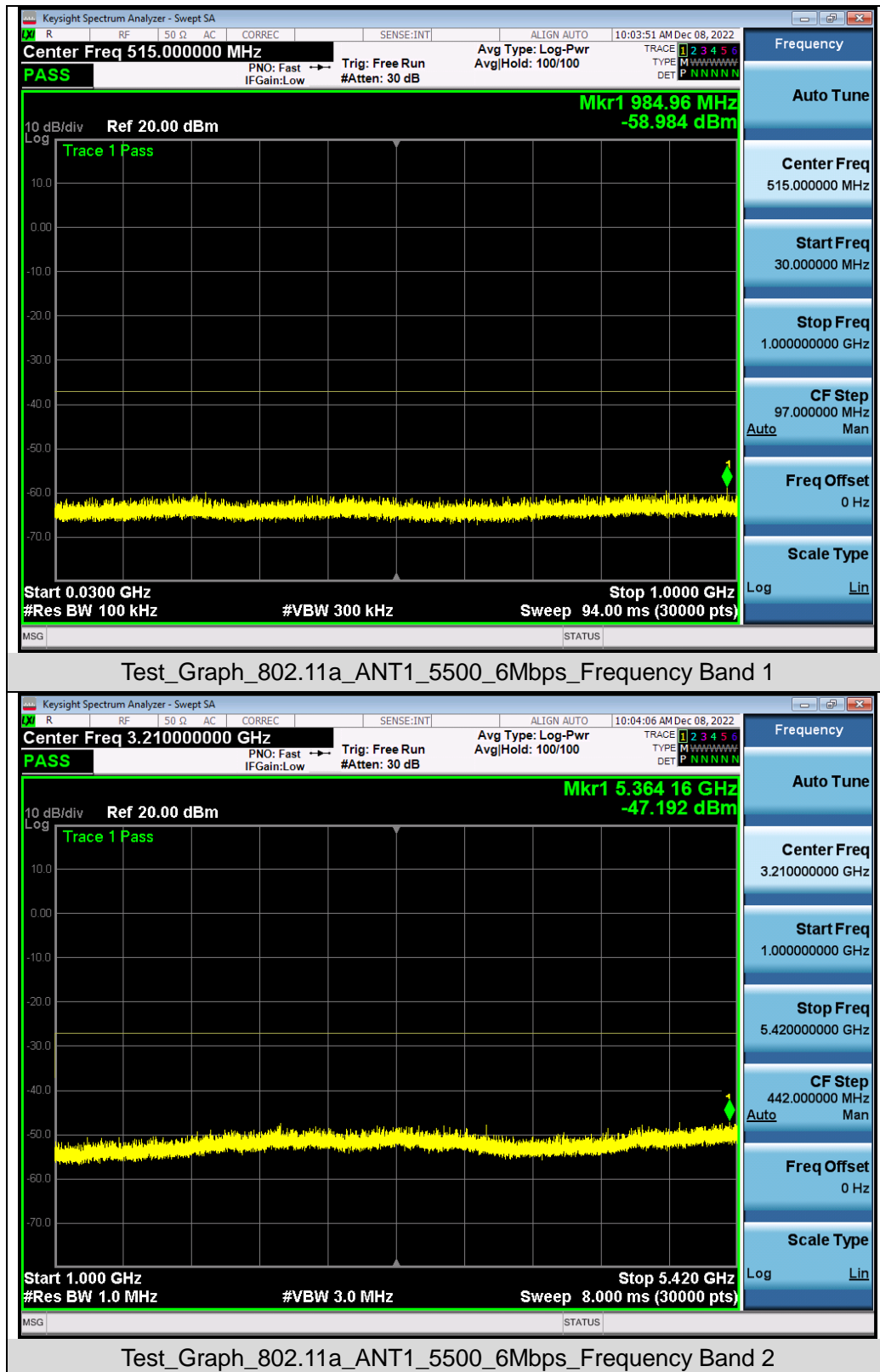
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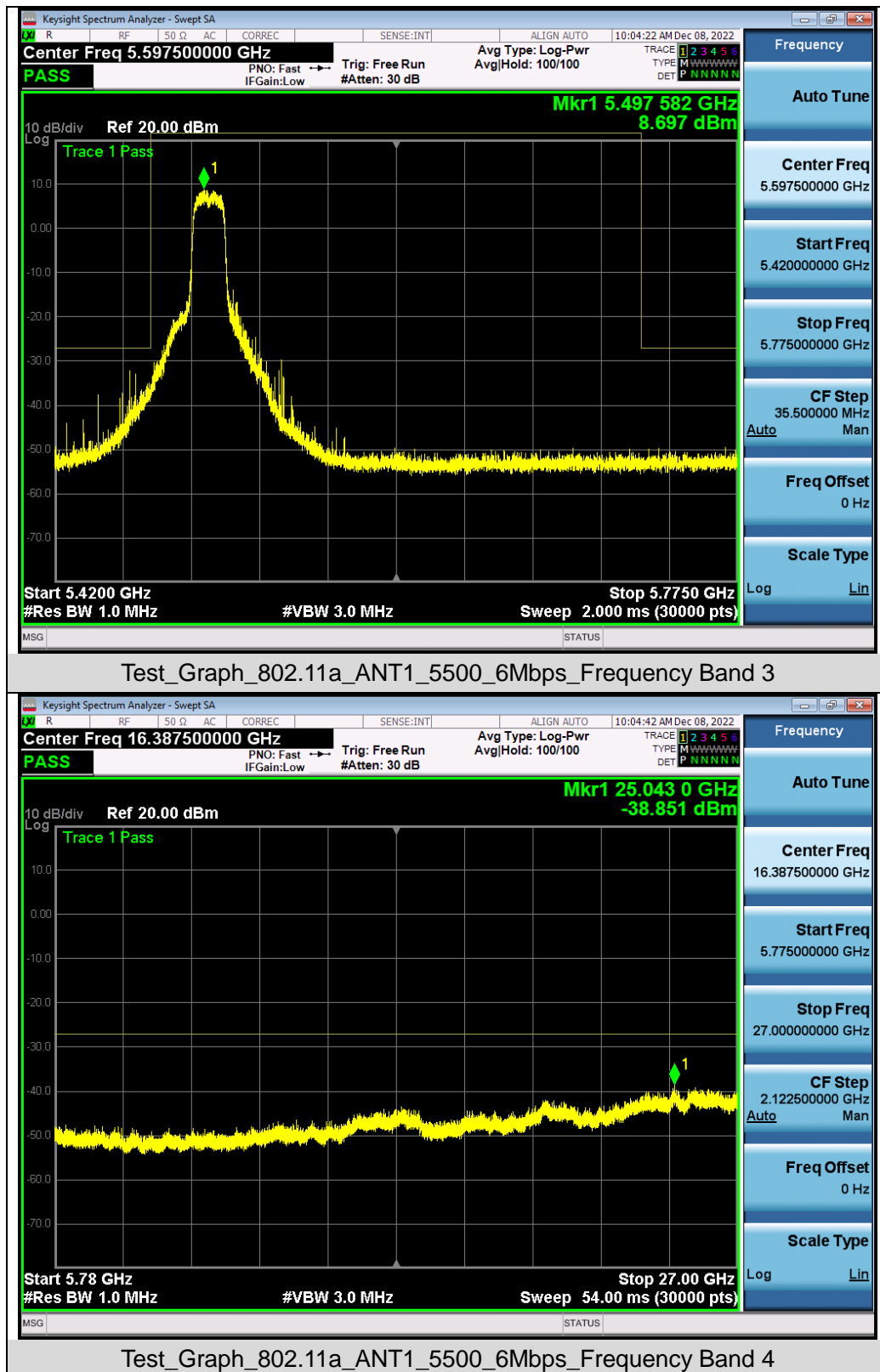
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Test Graphs of Spurious Emissions outside of the 5.47-5.725 GHz band for transmitters operating in the 5.47-5.725 GHz band



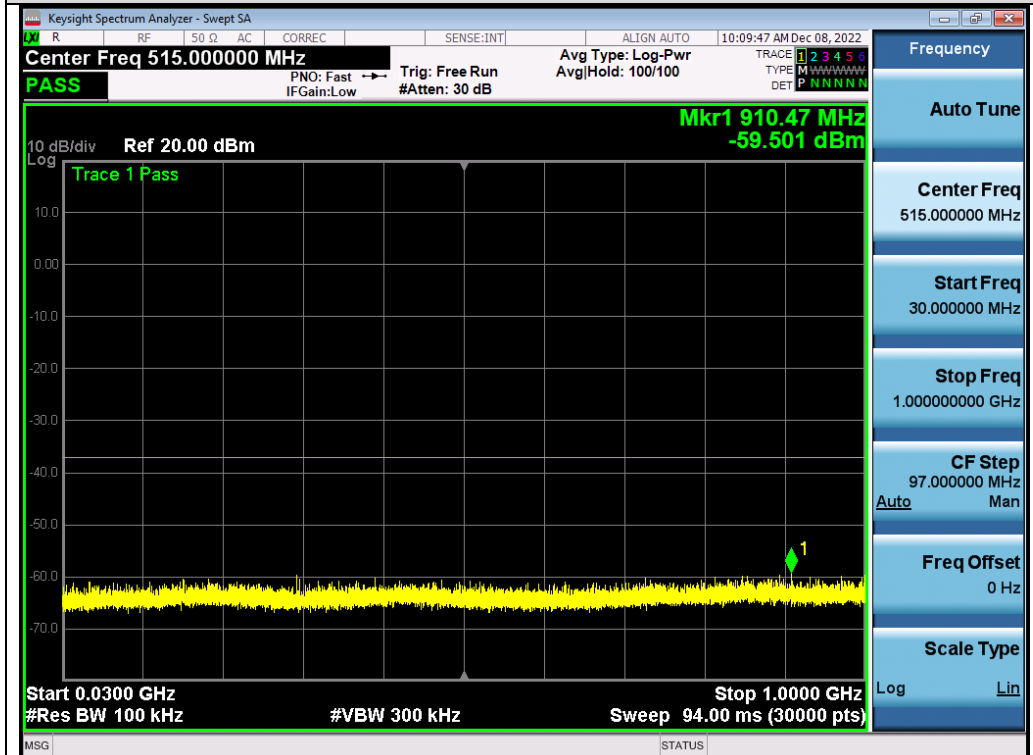
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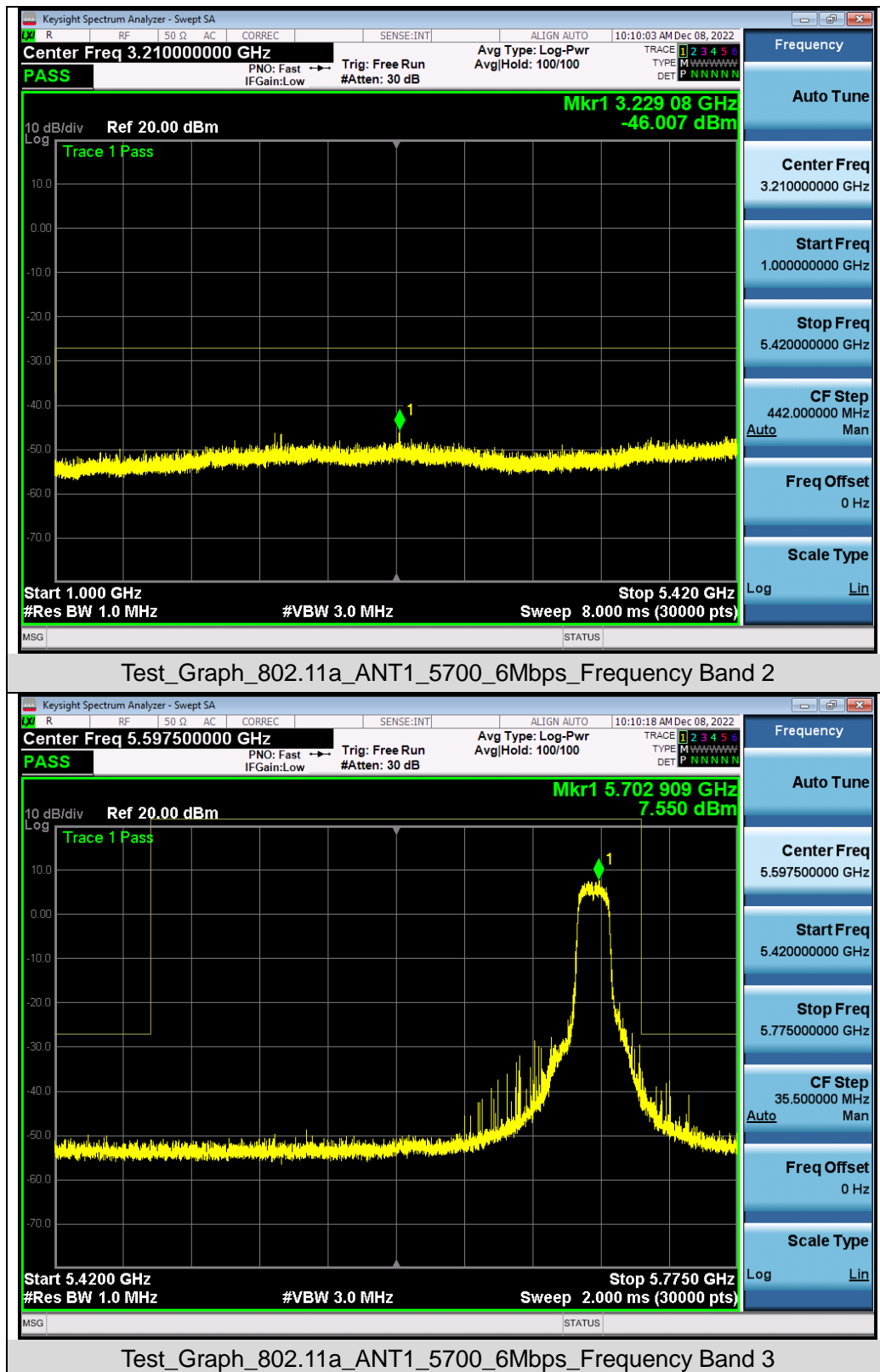
Test_Graph_802.11a_ANT1_5500_6Mbps_Frequency Band 5



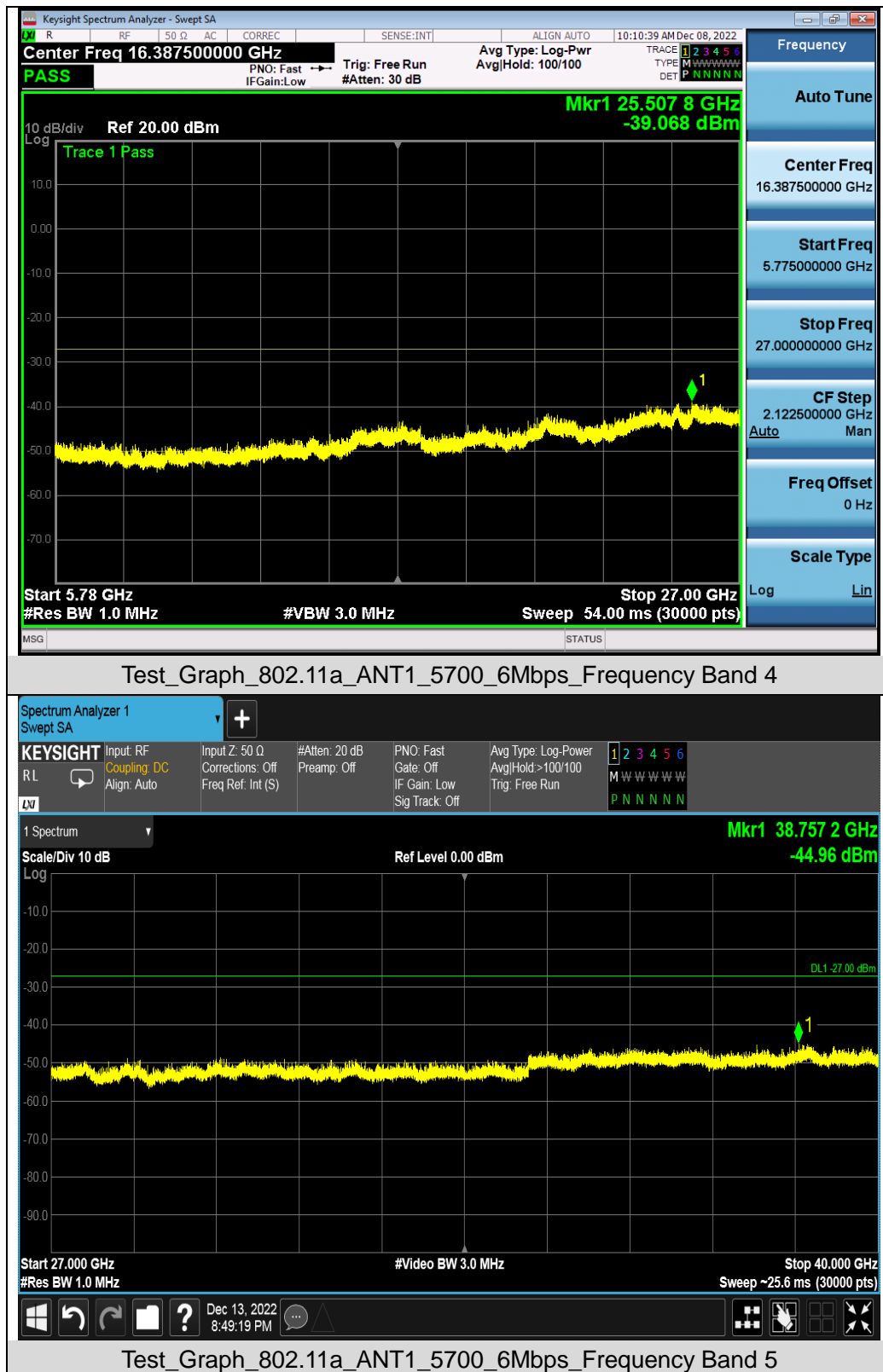
Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 1

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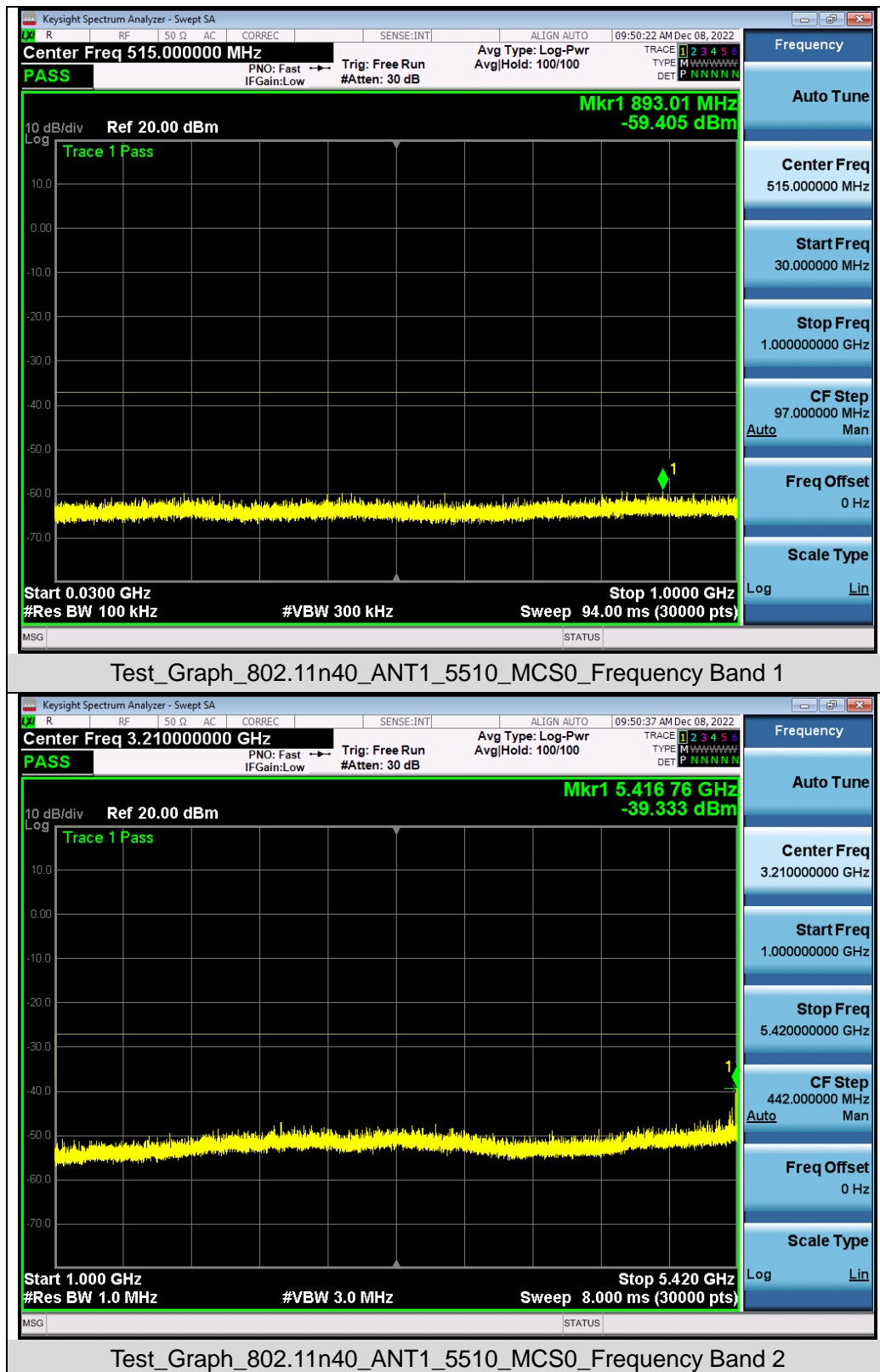
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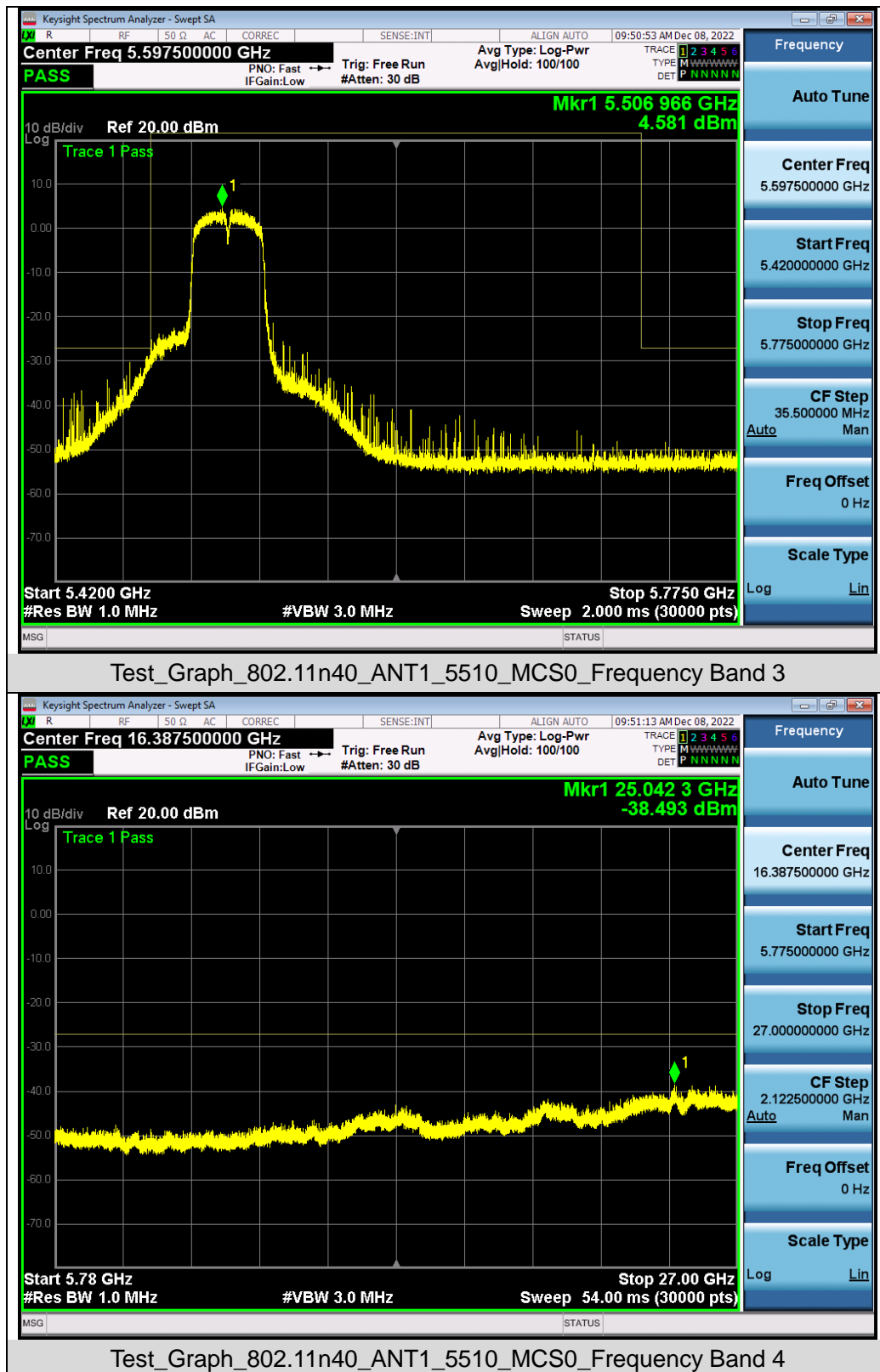
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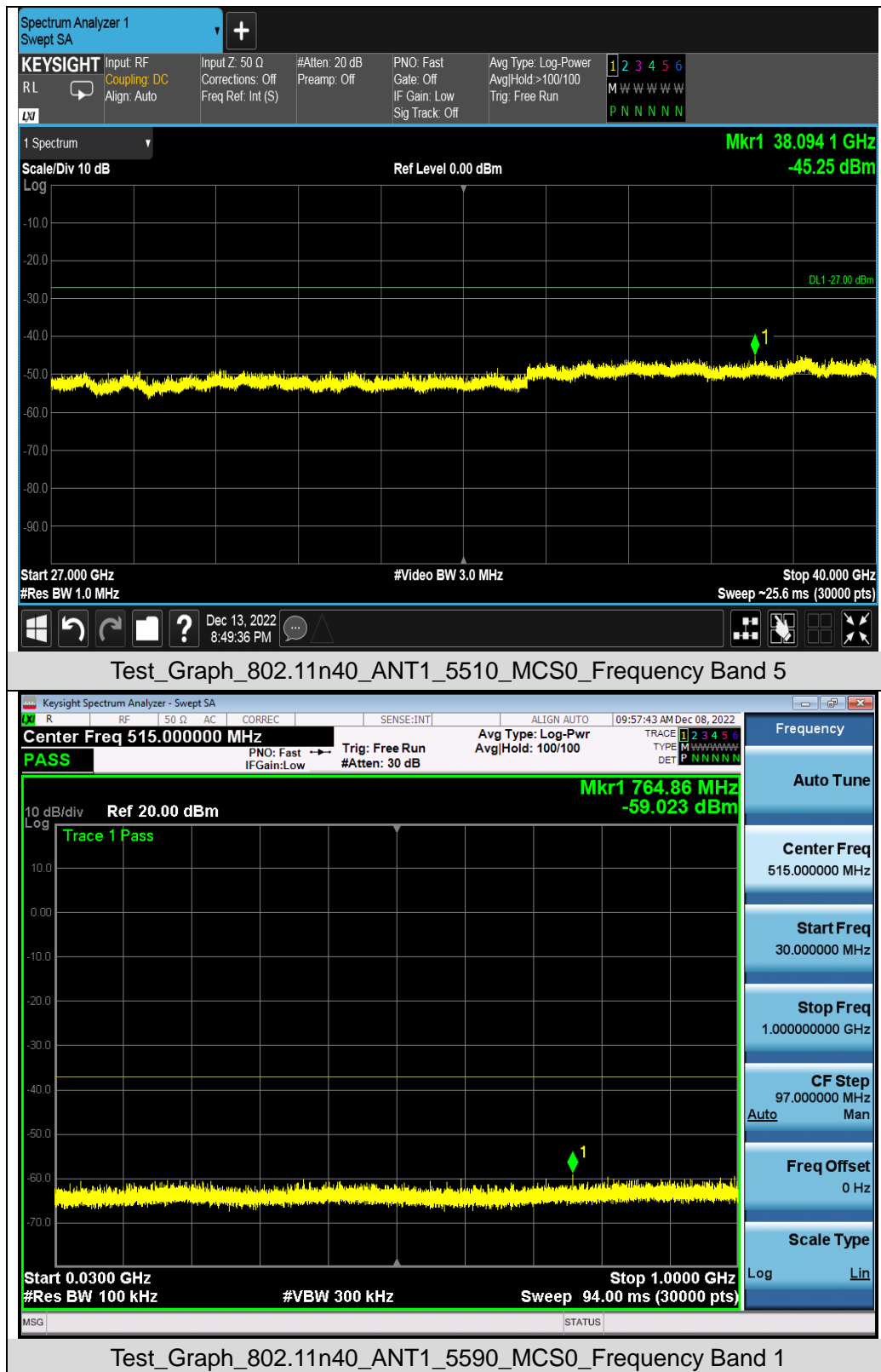


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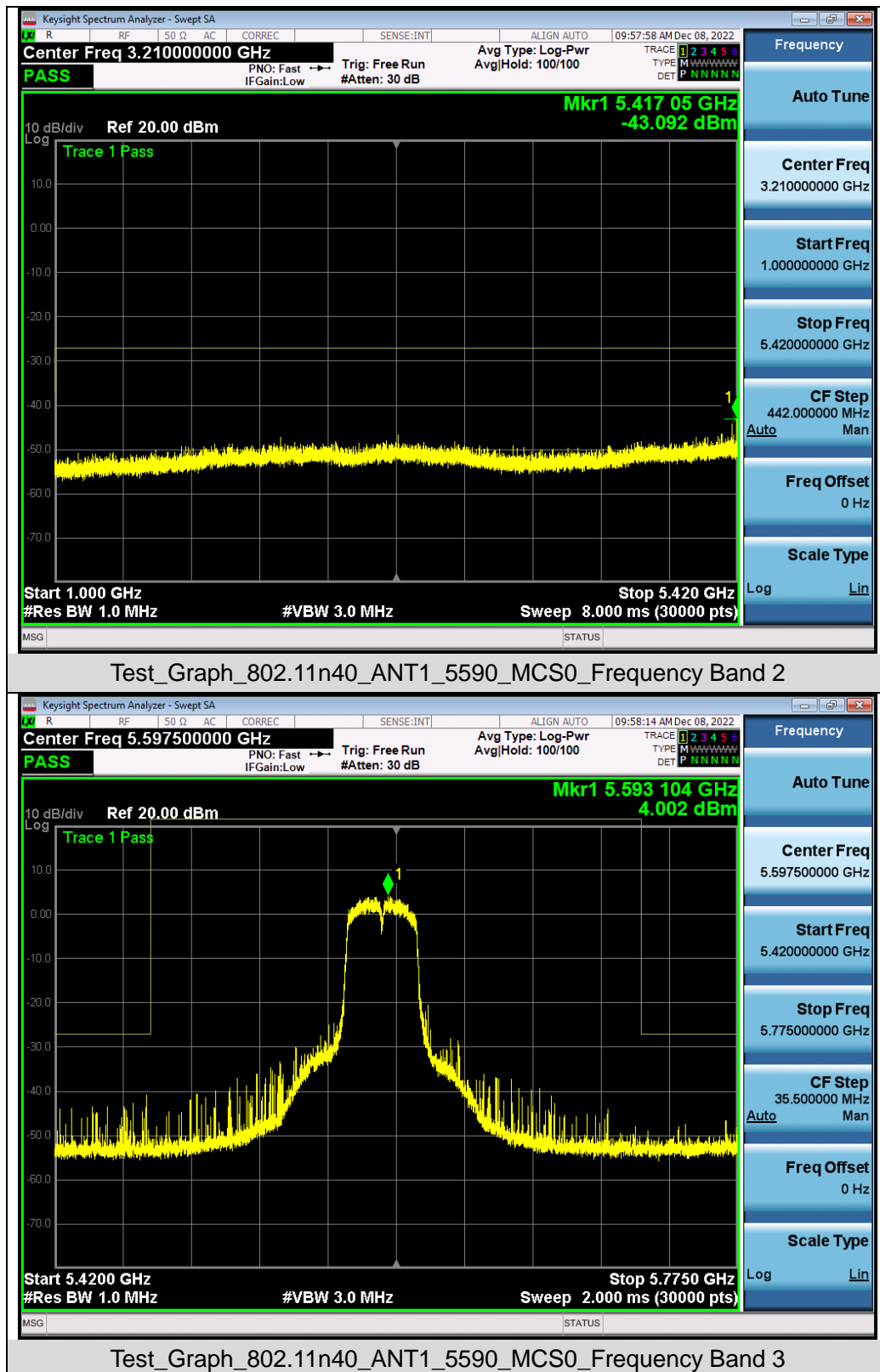
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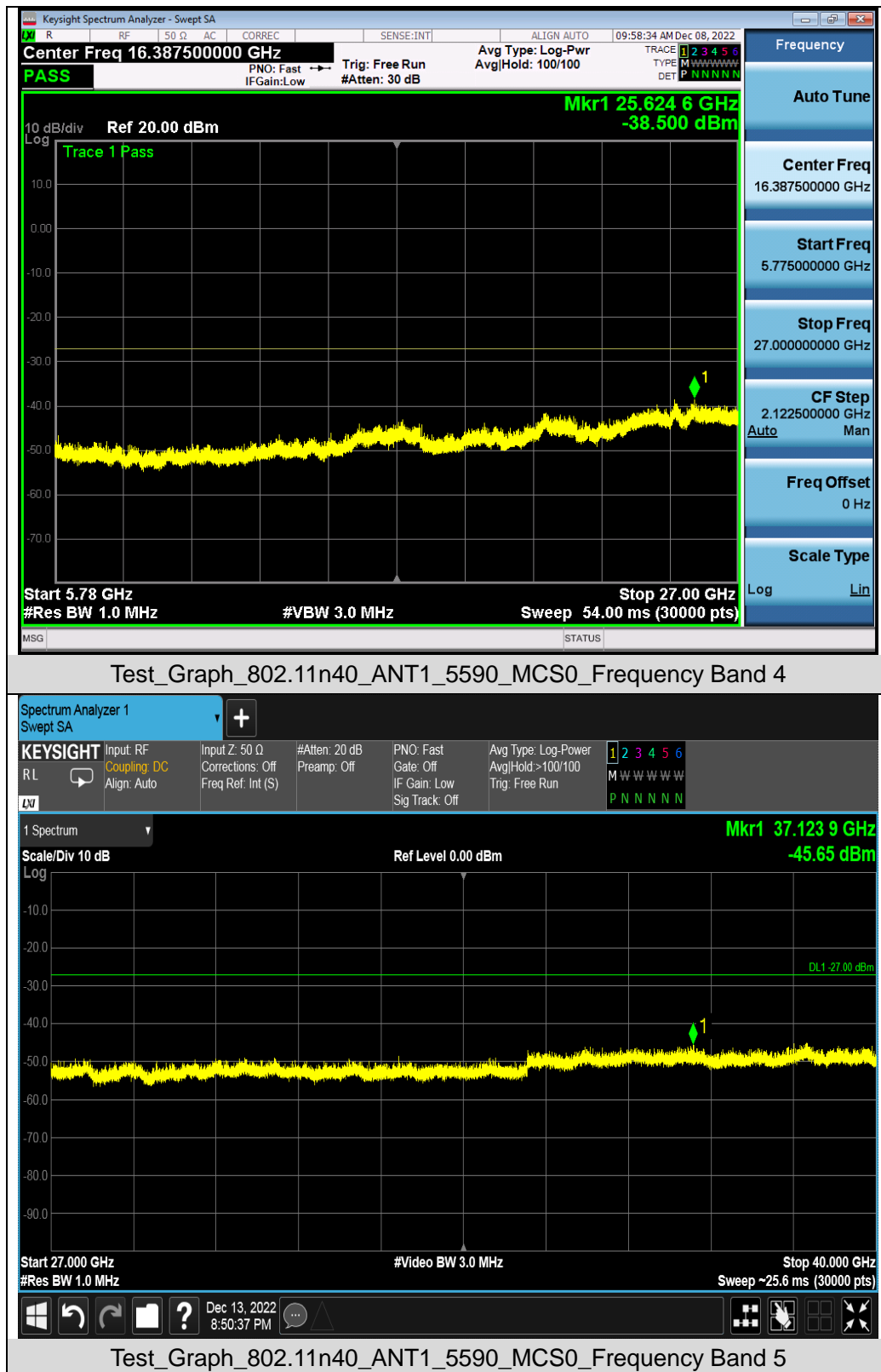


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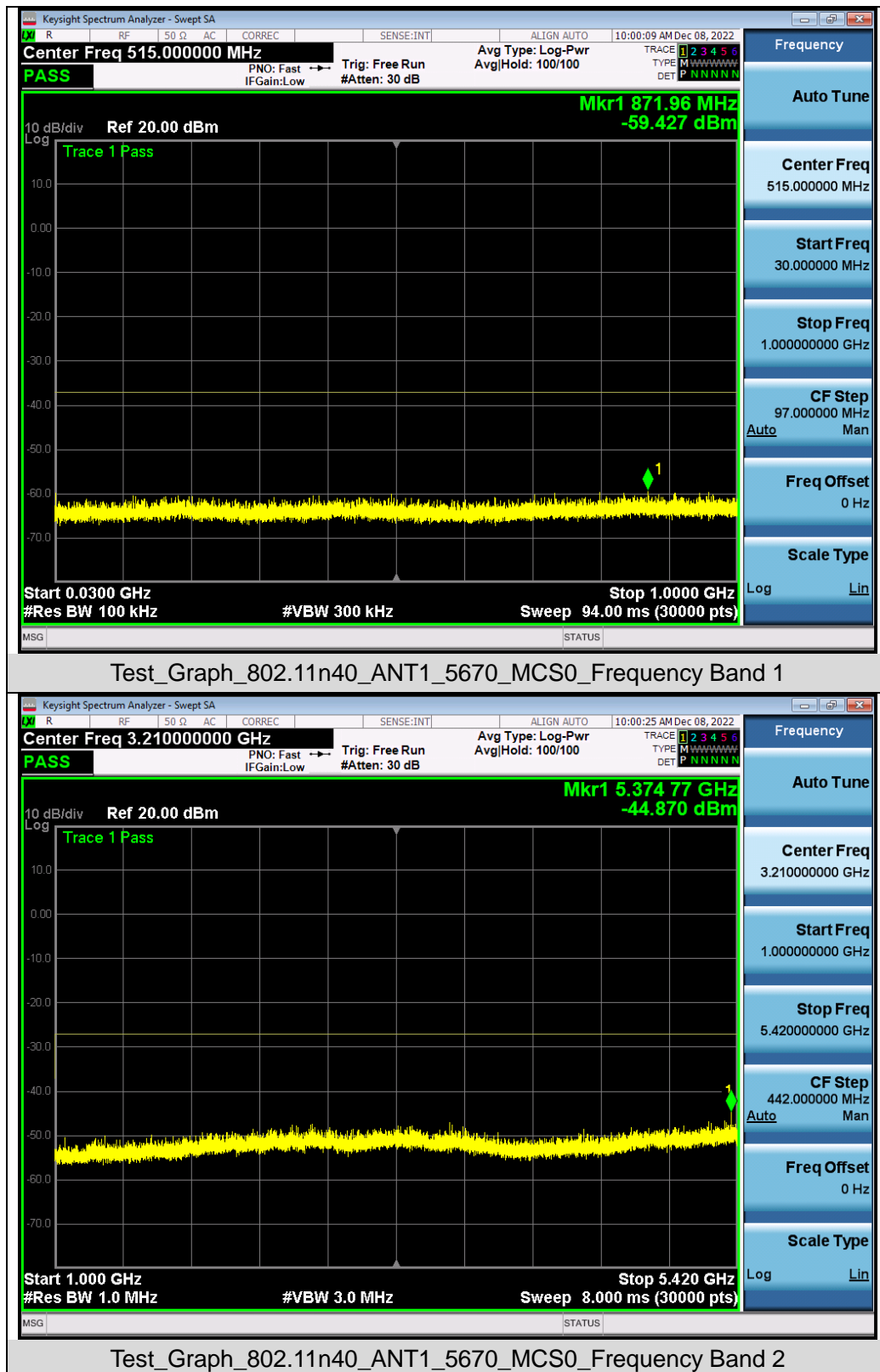
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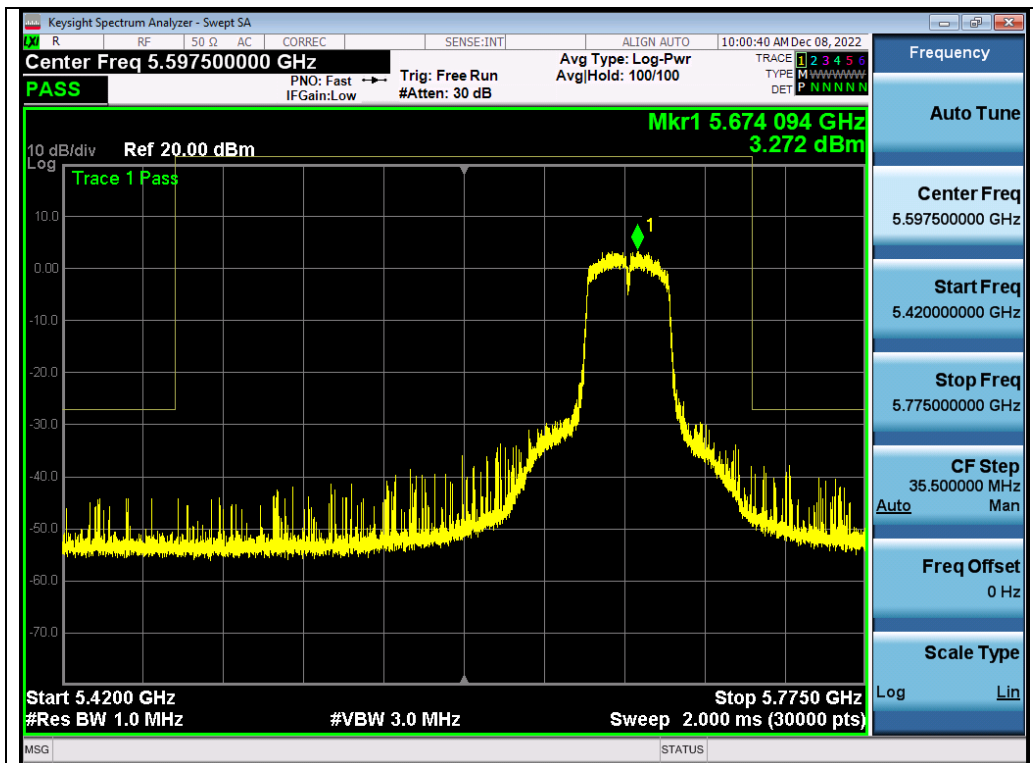


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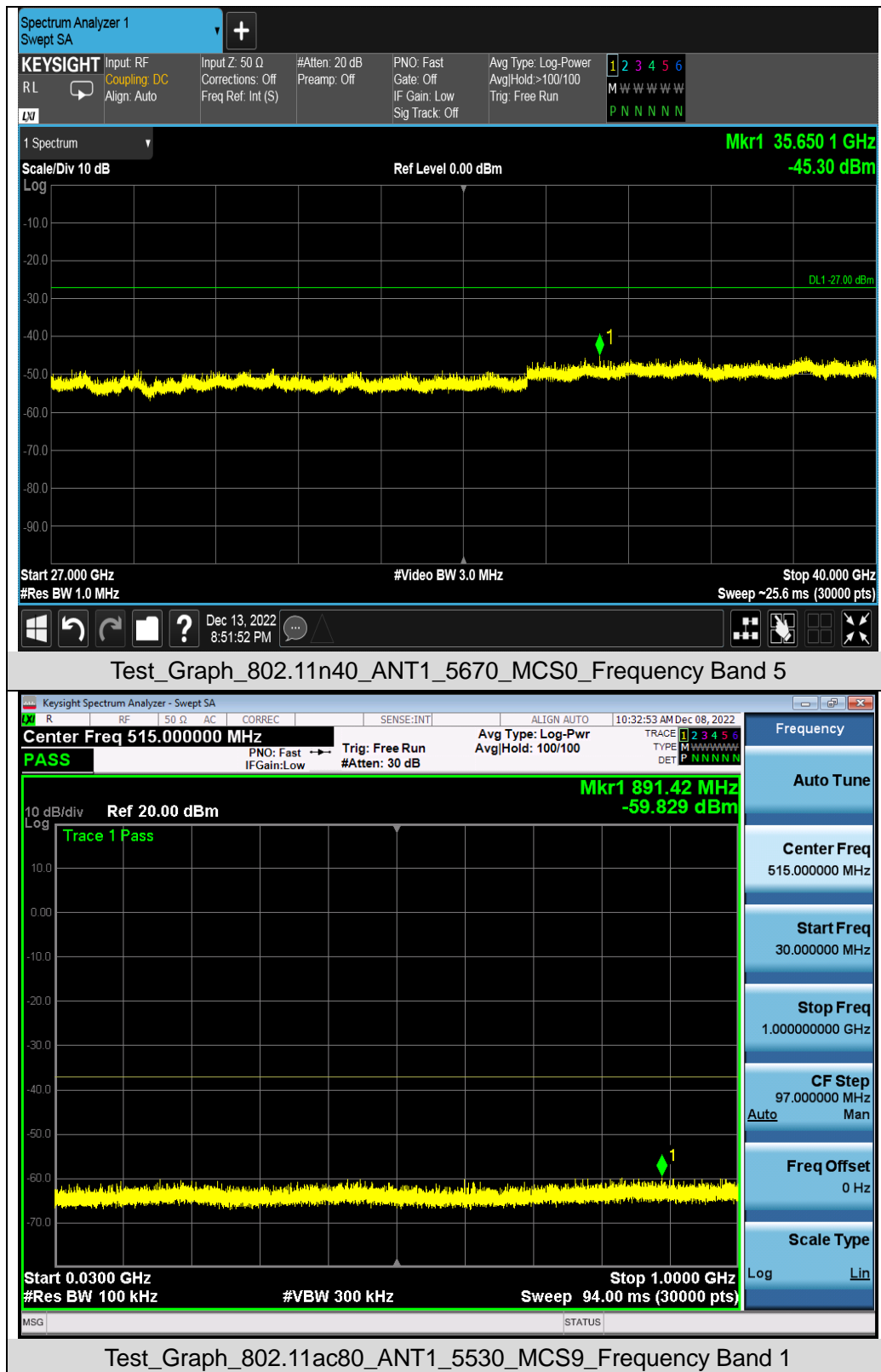


Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 3



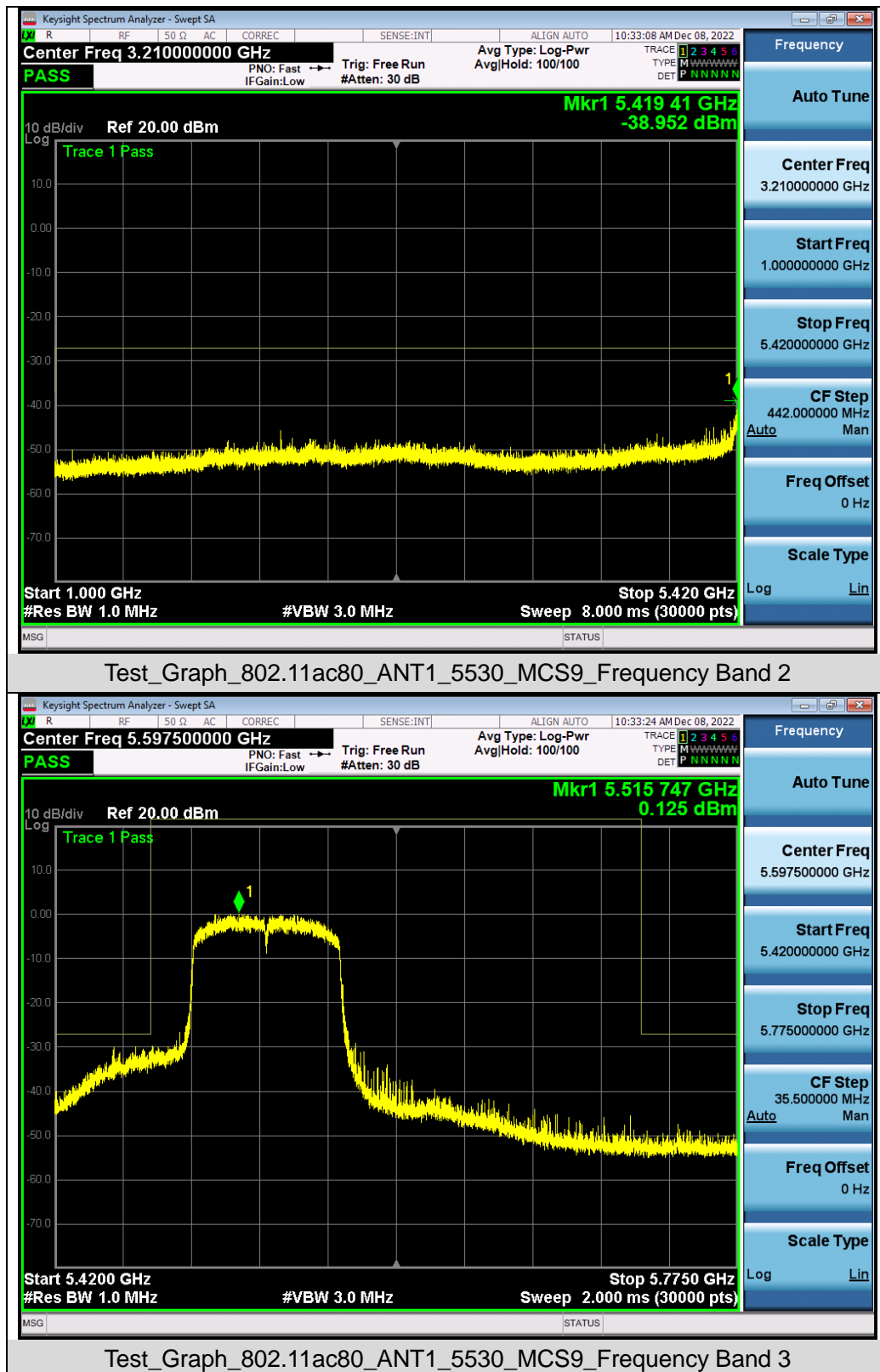
Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 4

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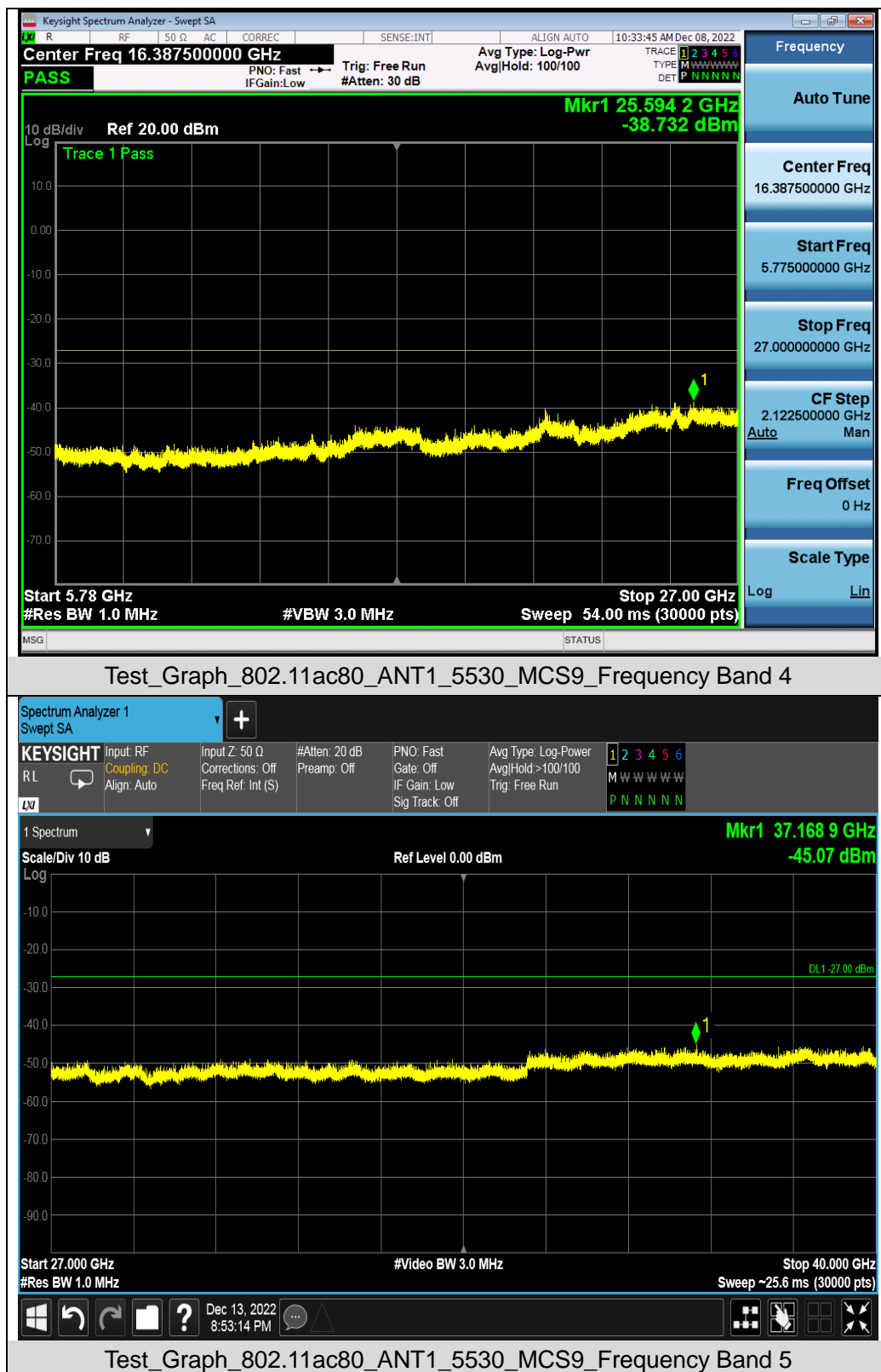


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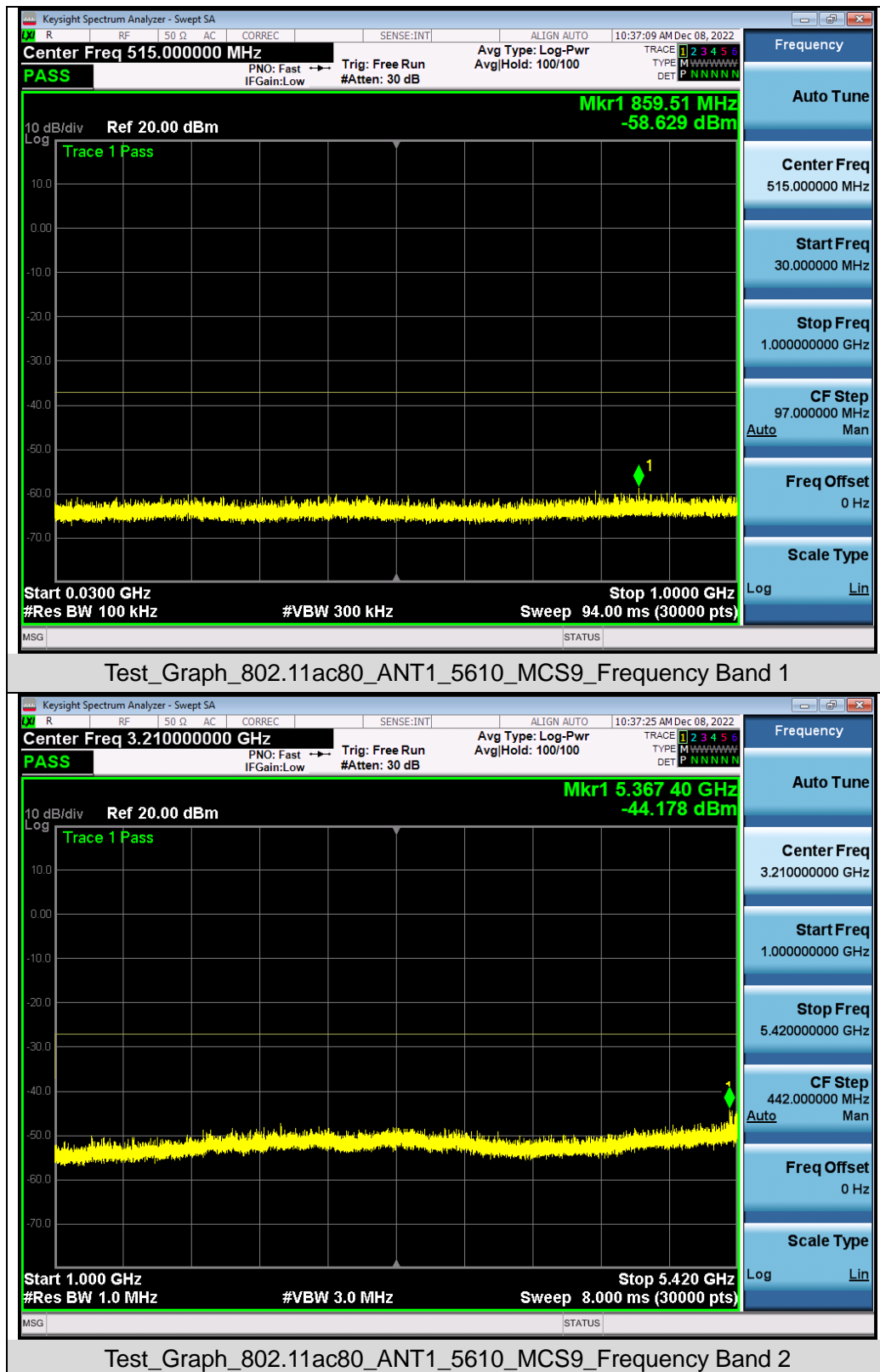
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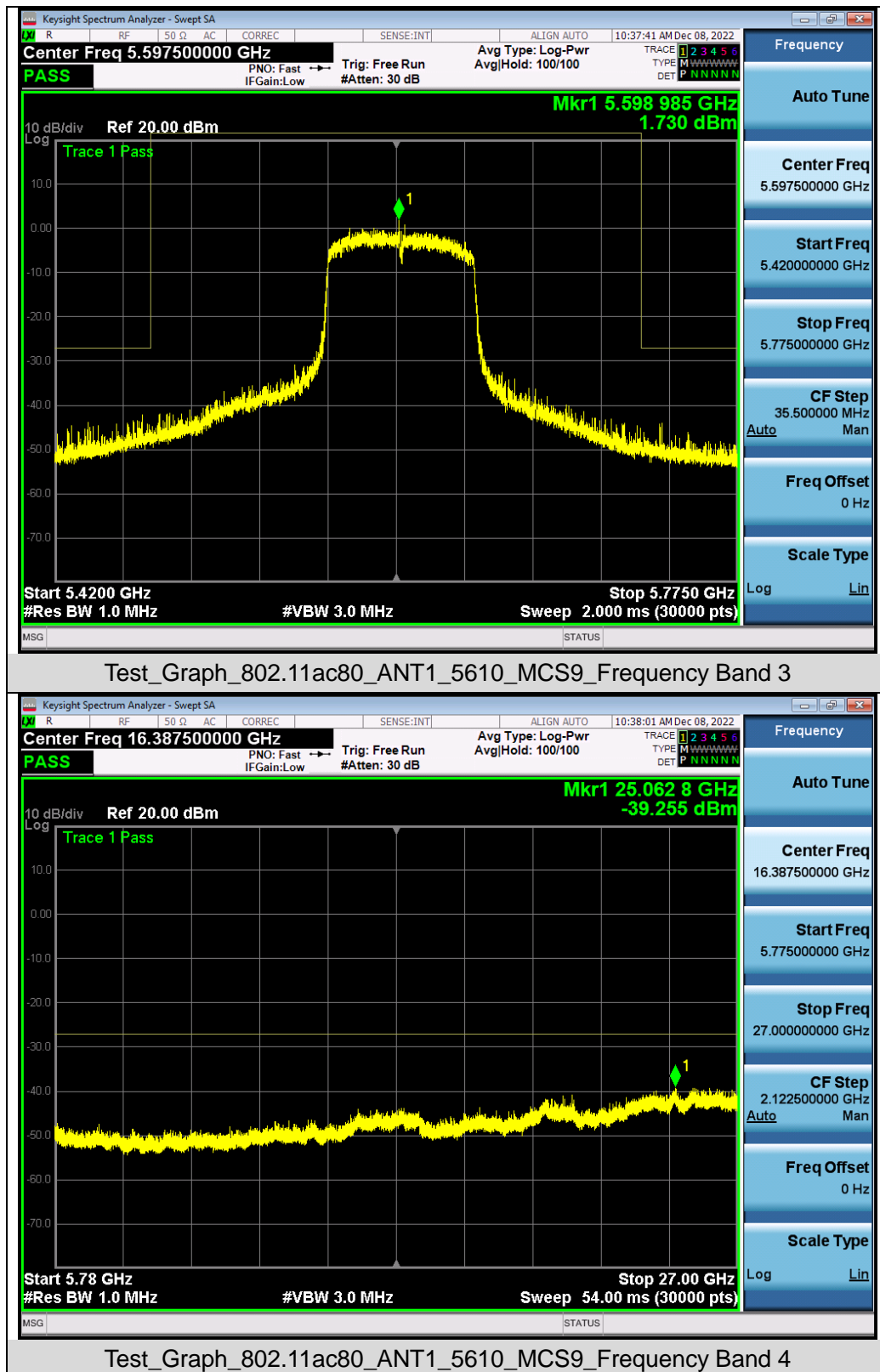
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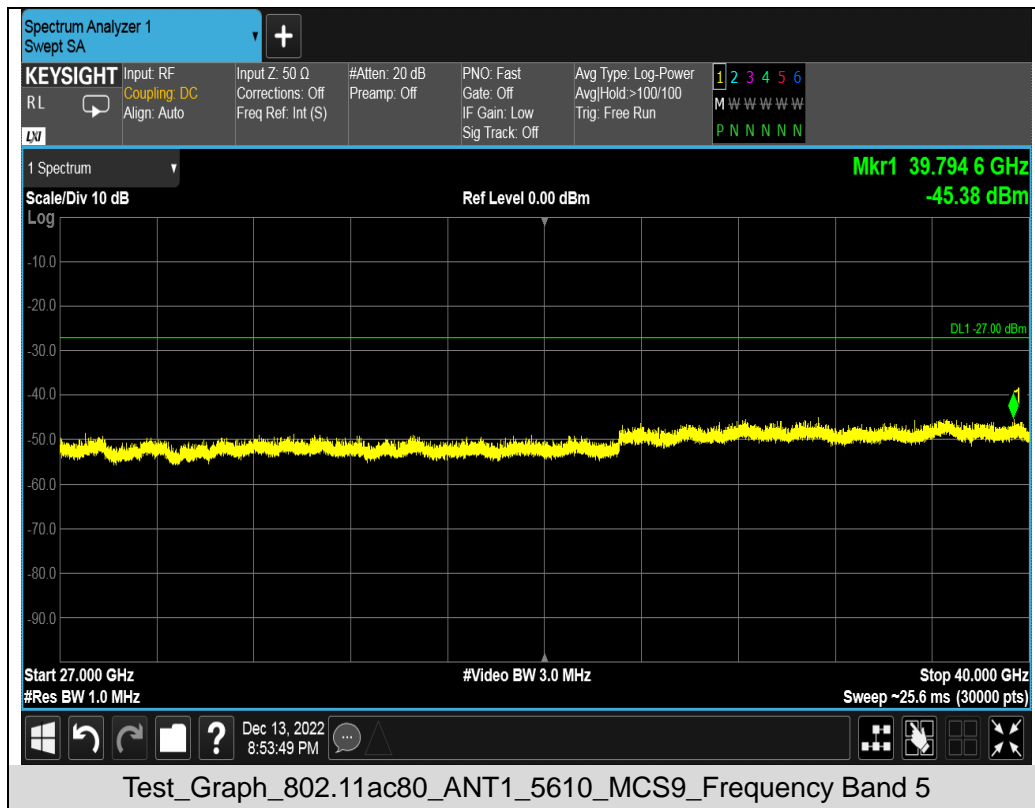
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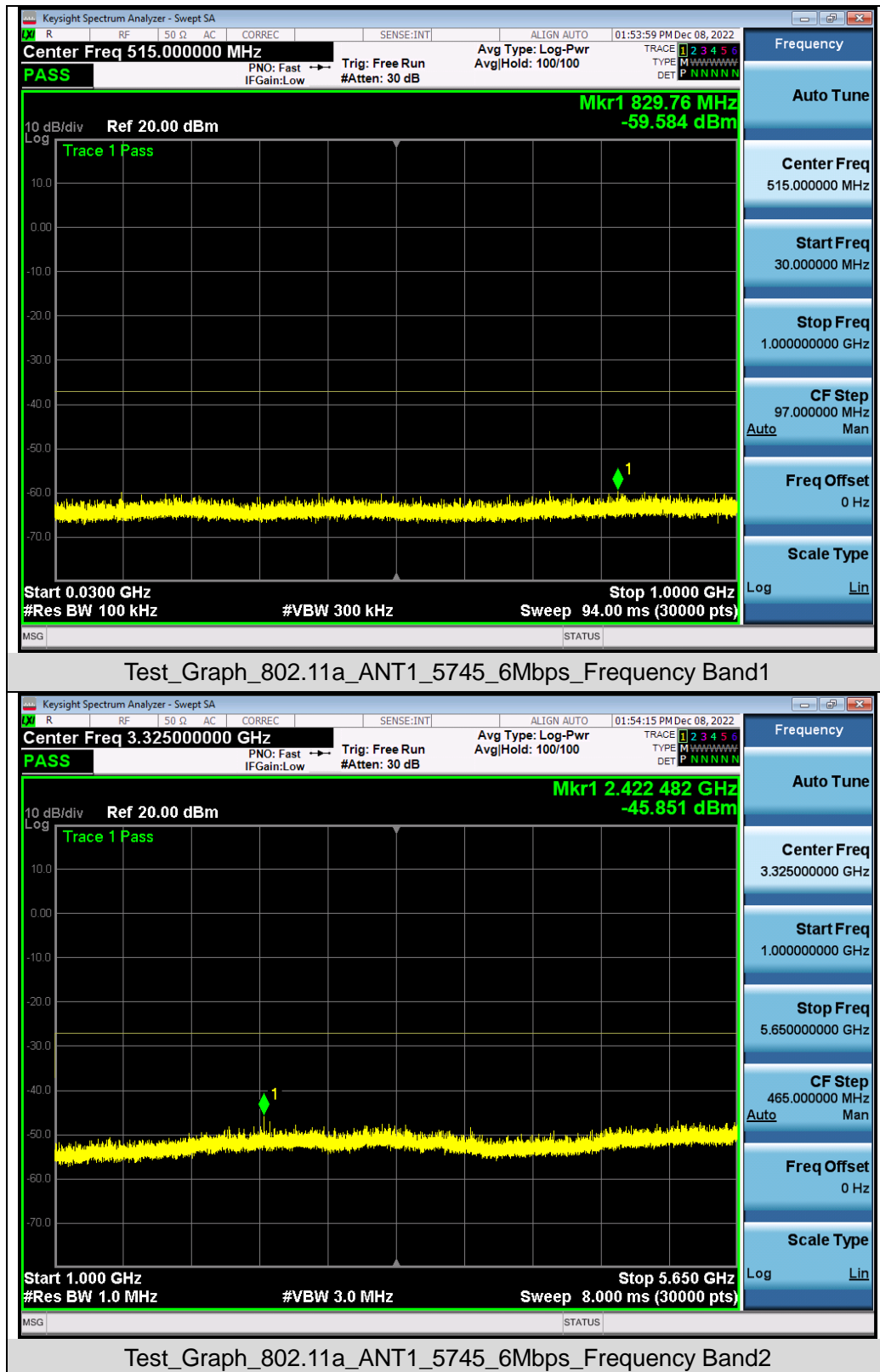
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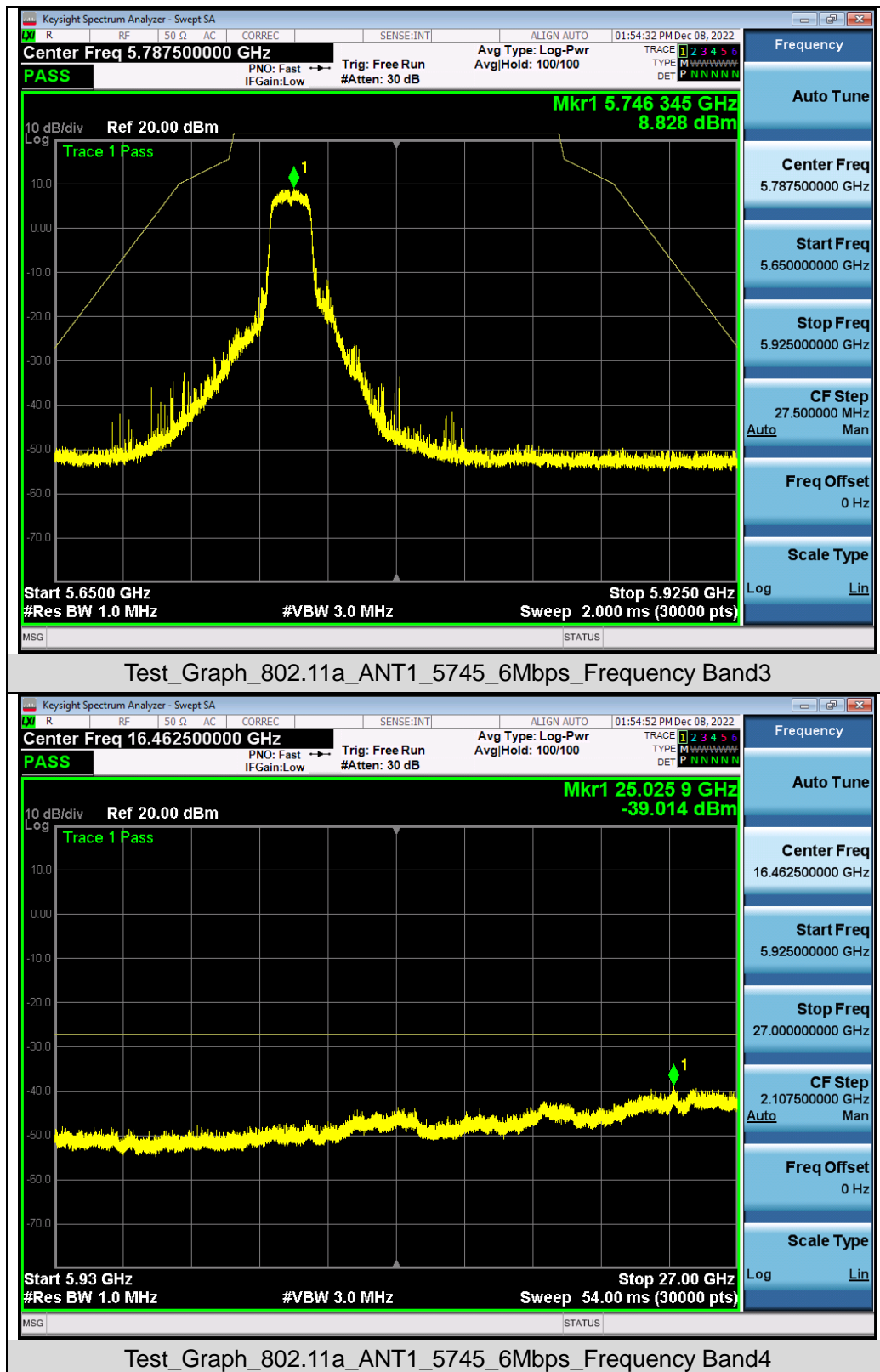
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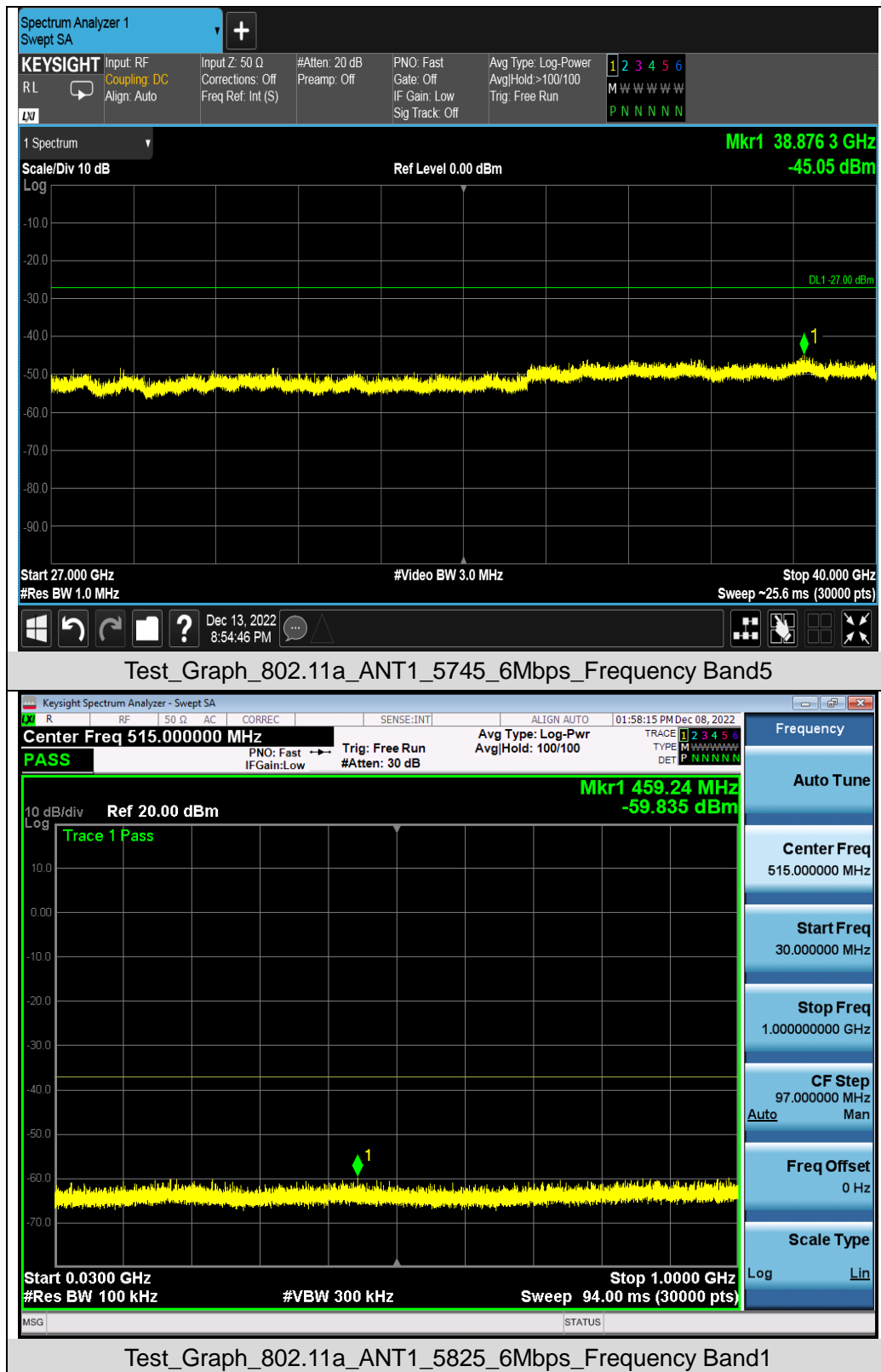
Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band



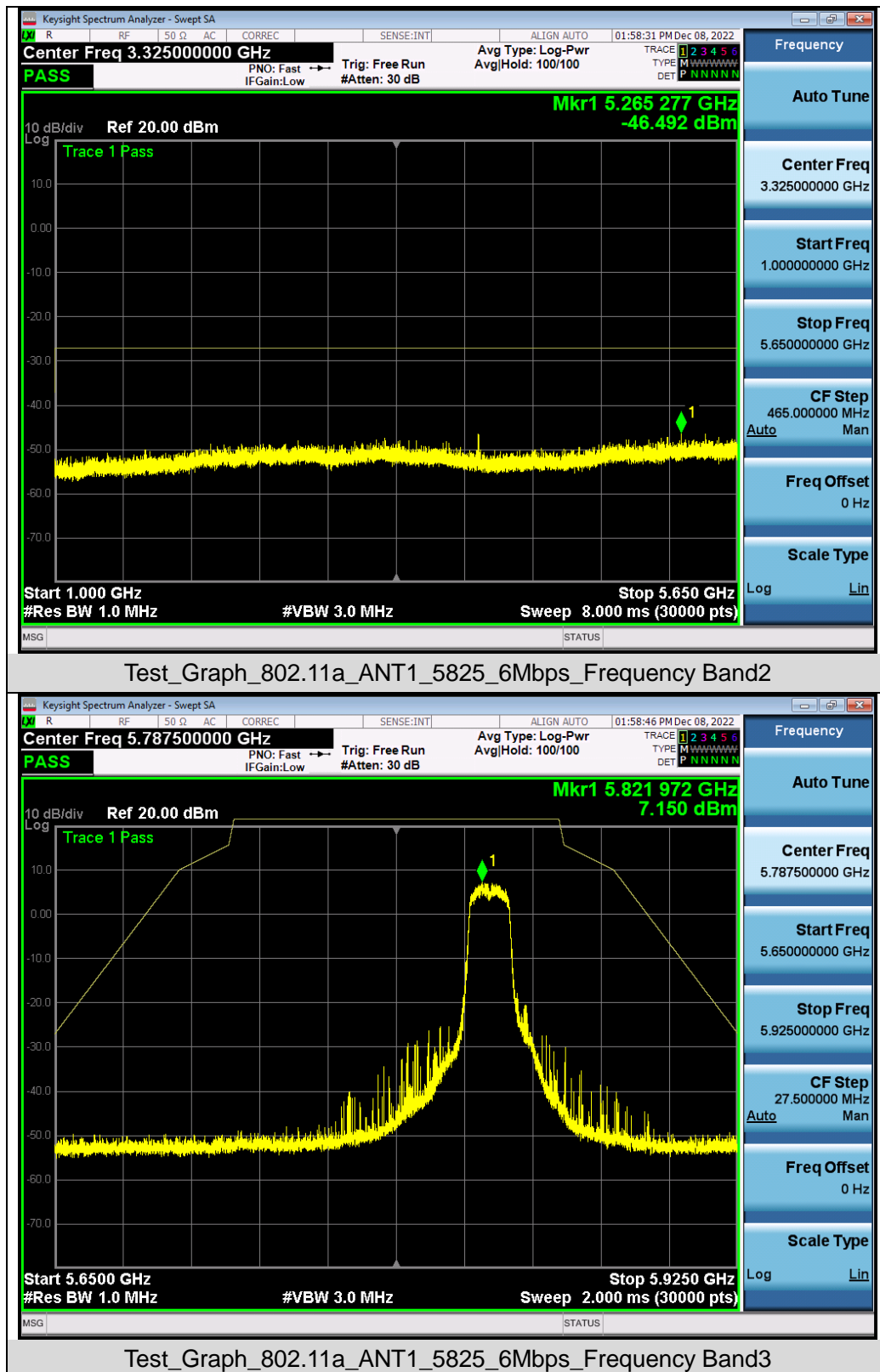
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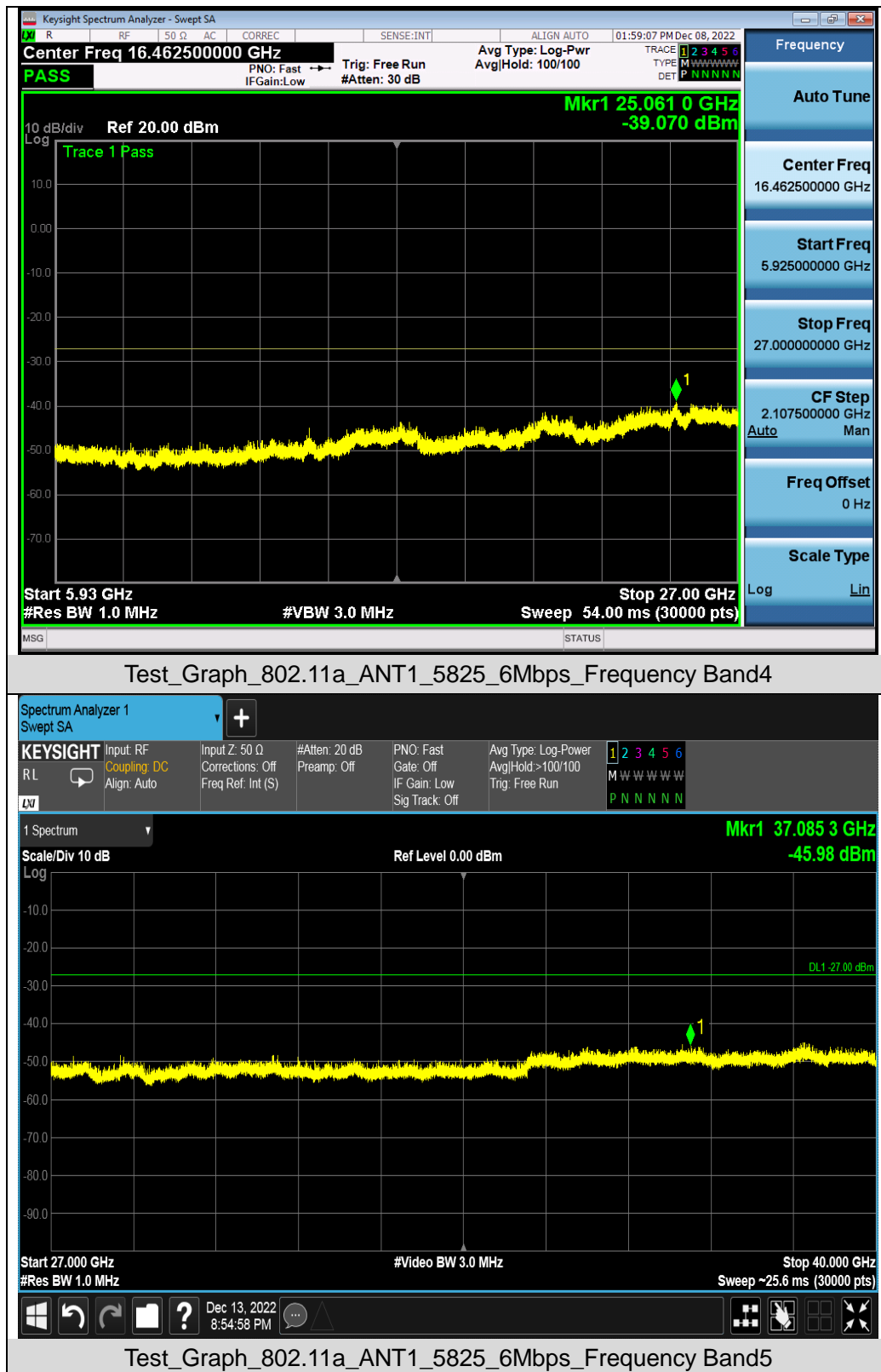
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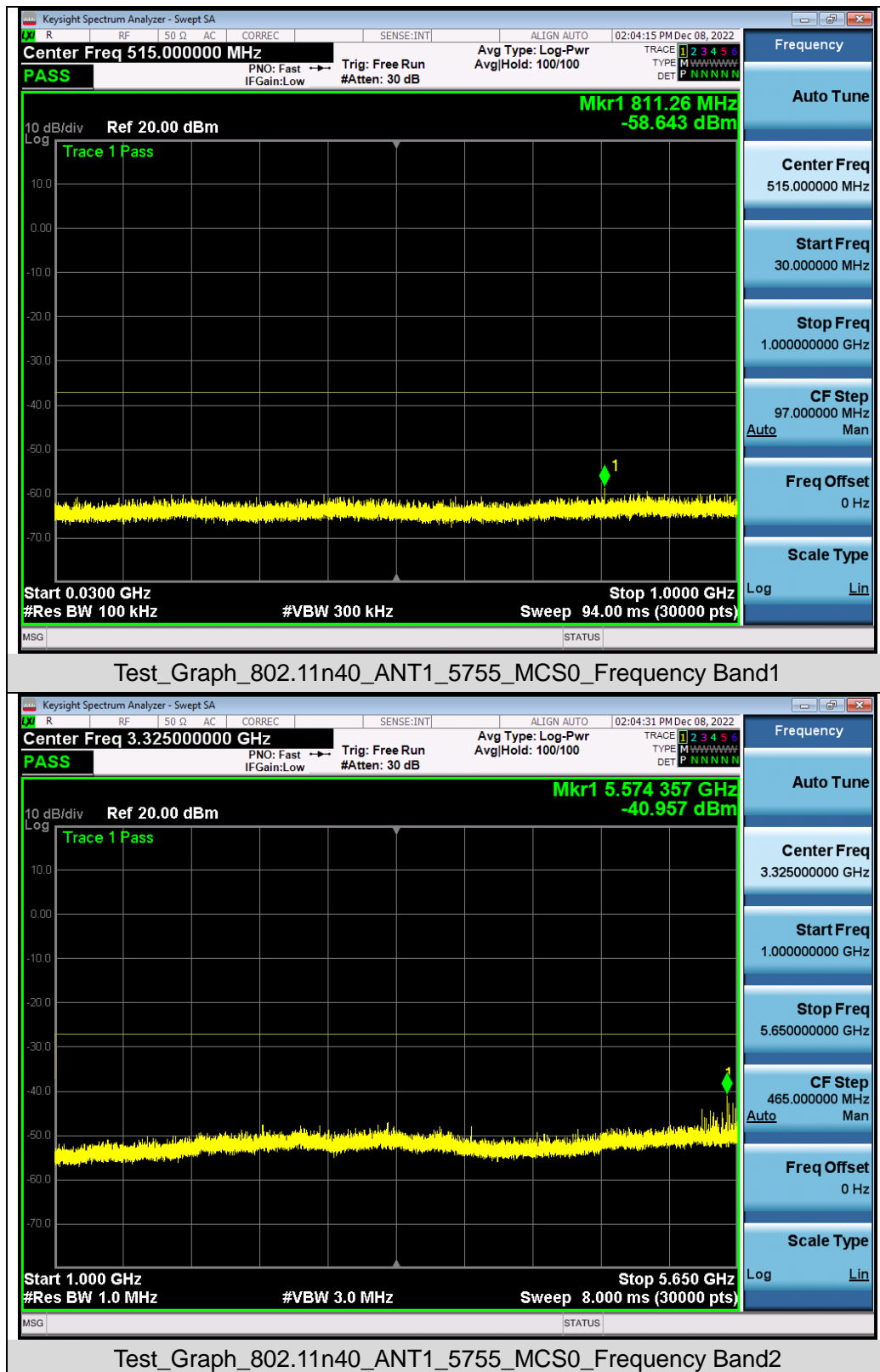
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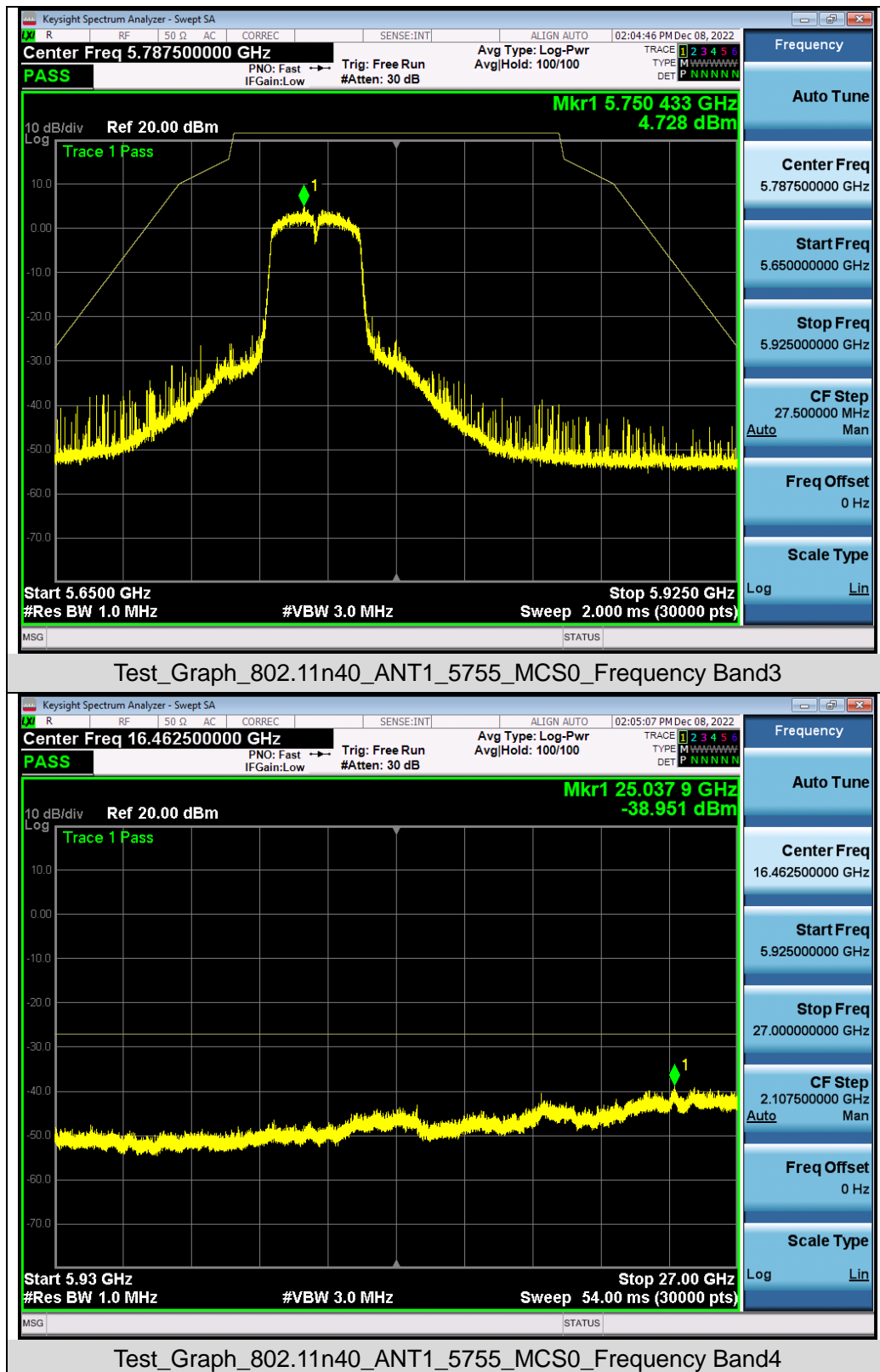
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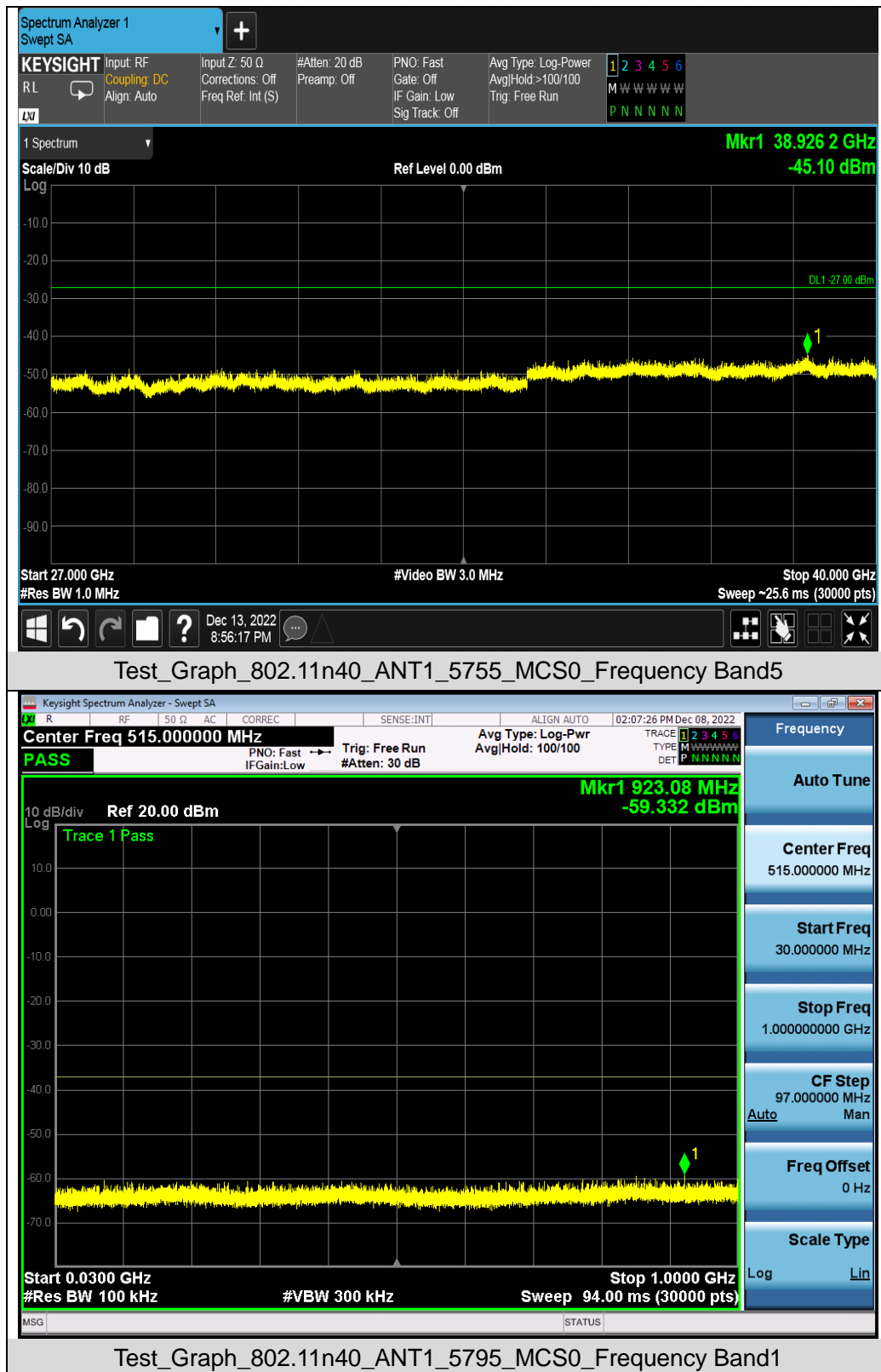
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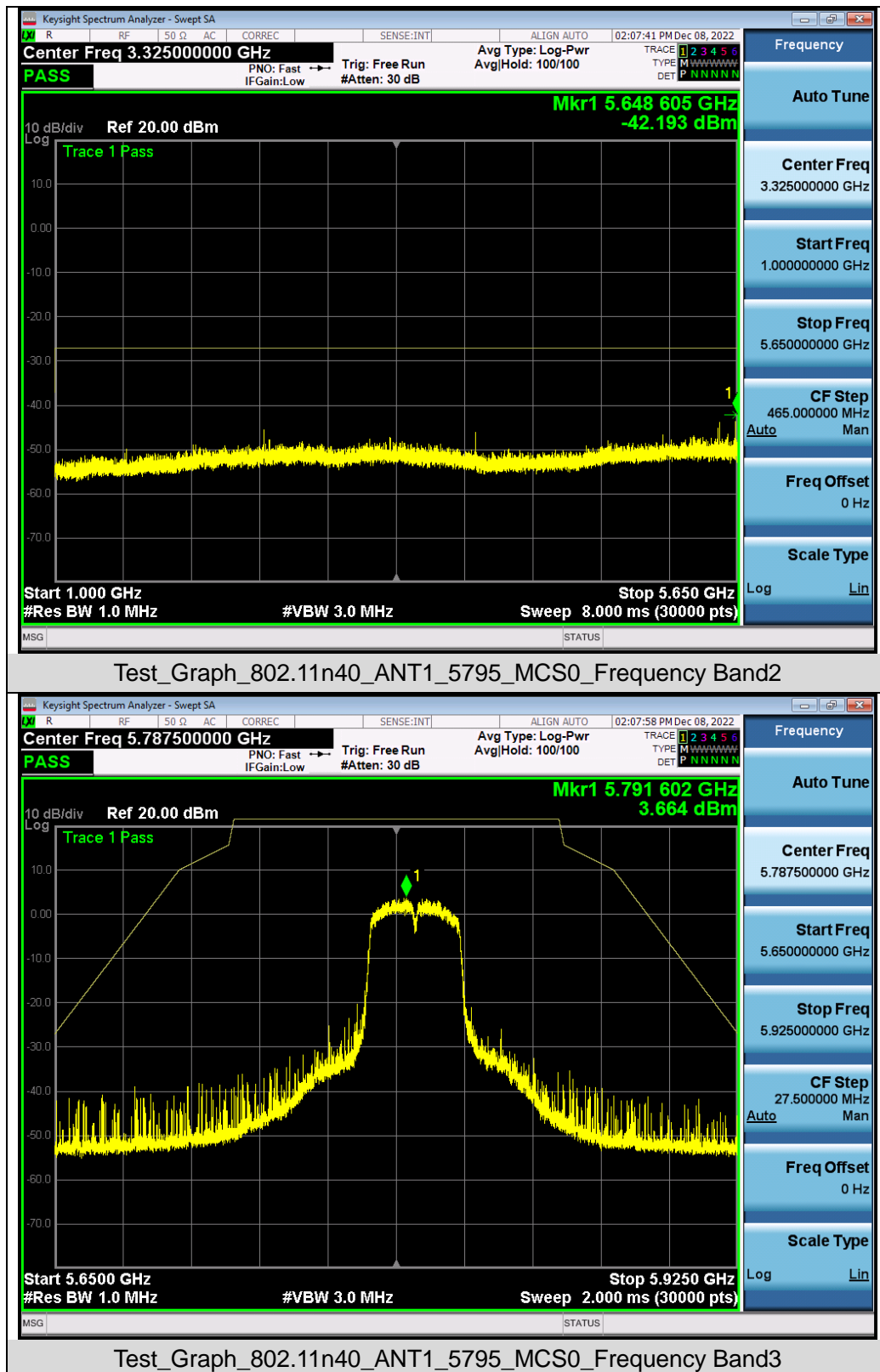
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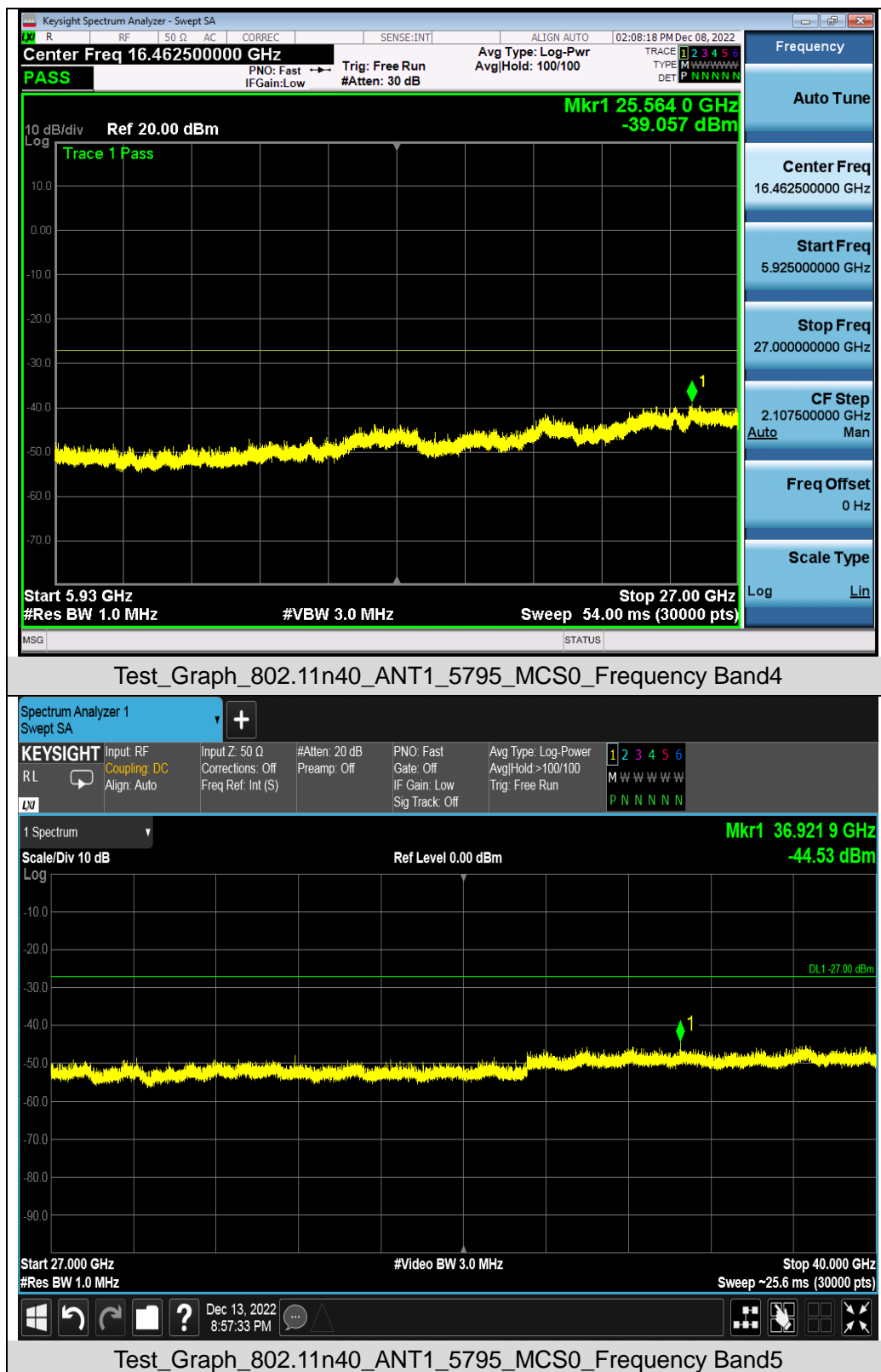
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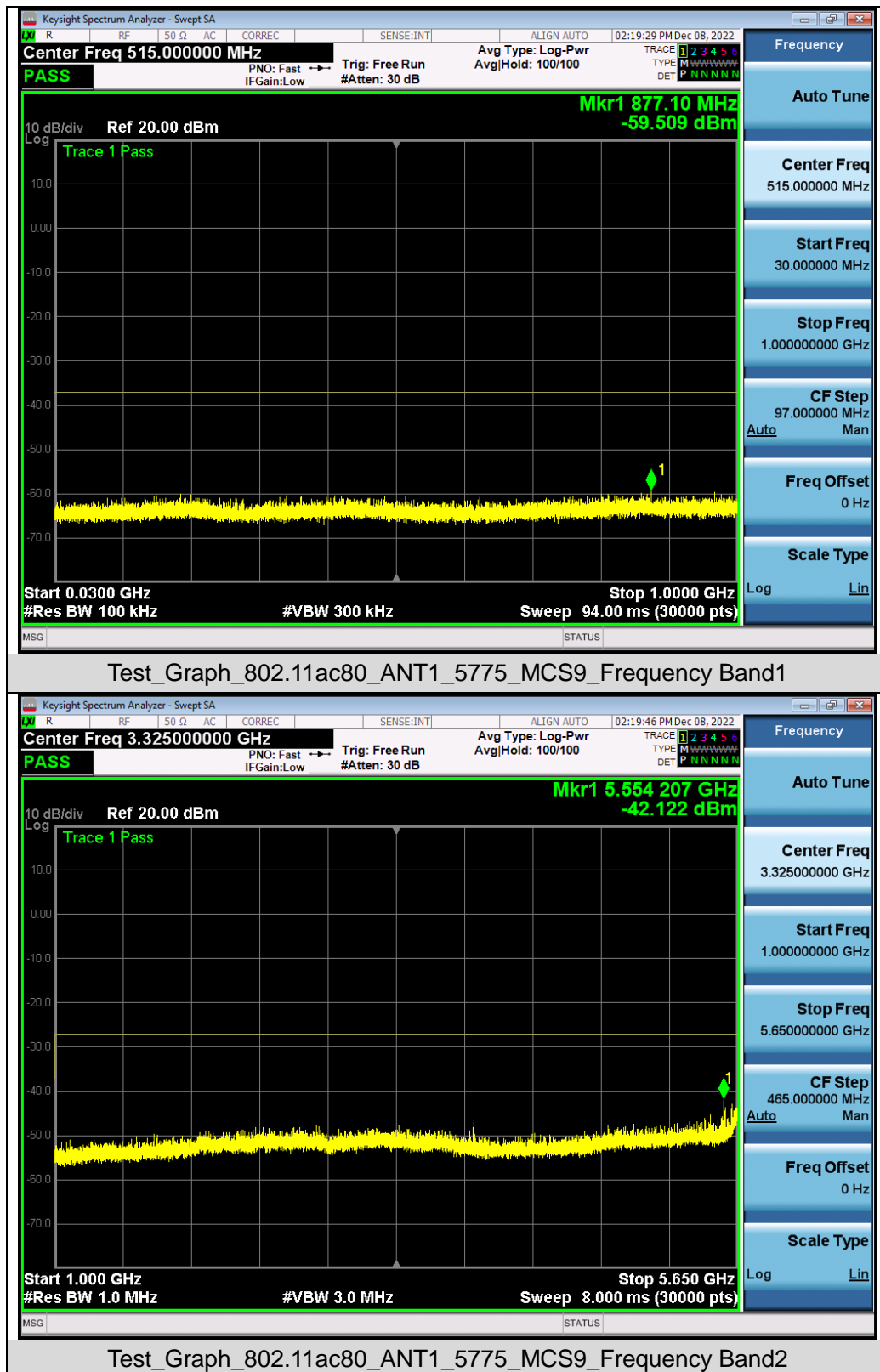


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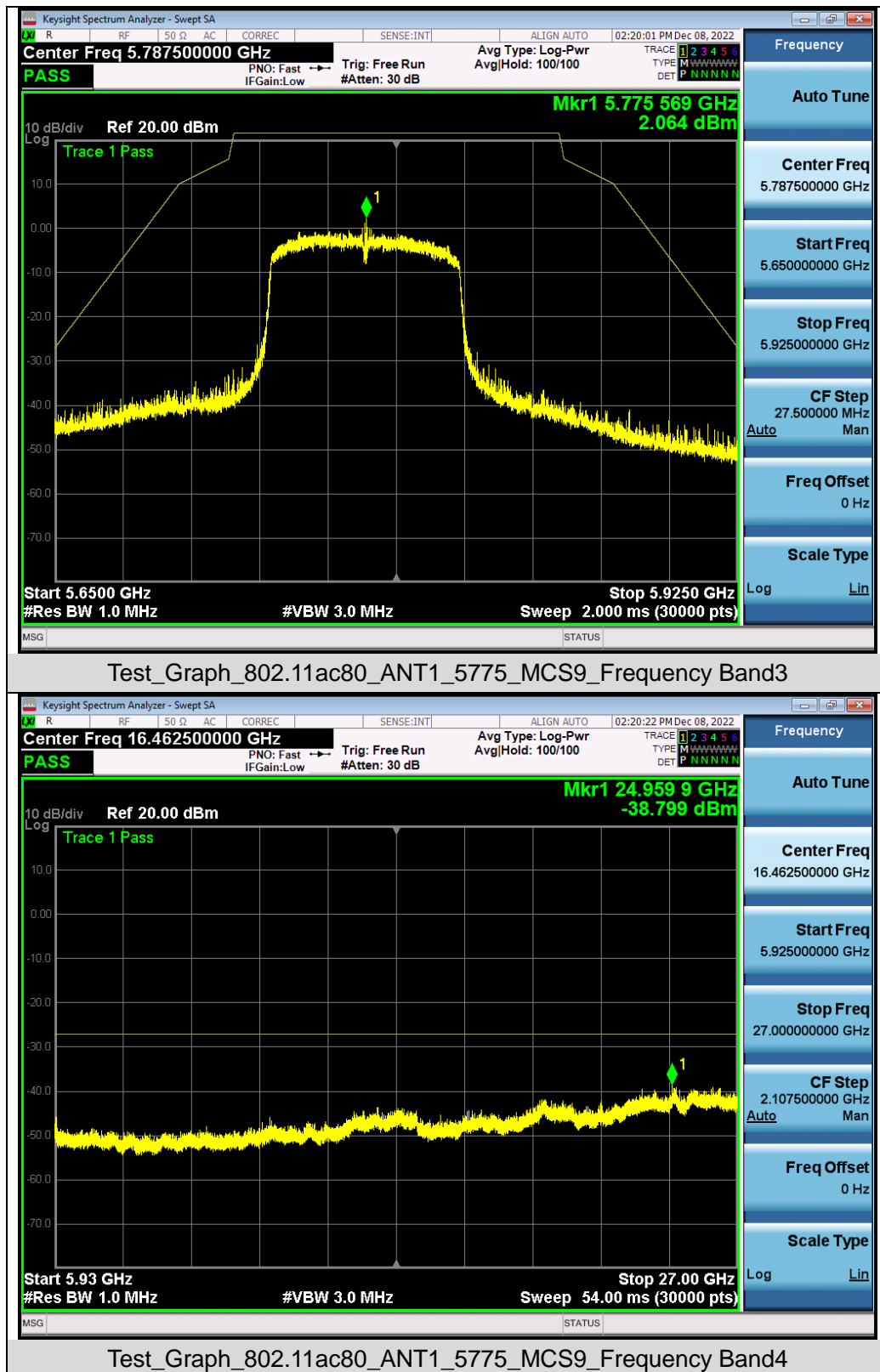


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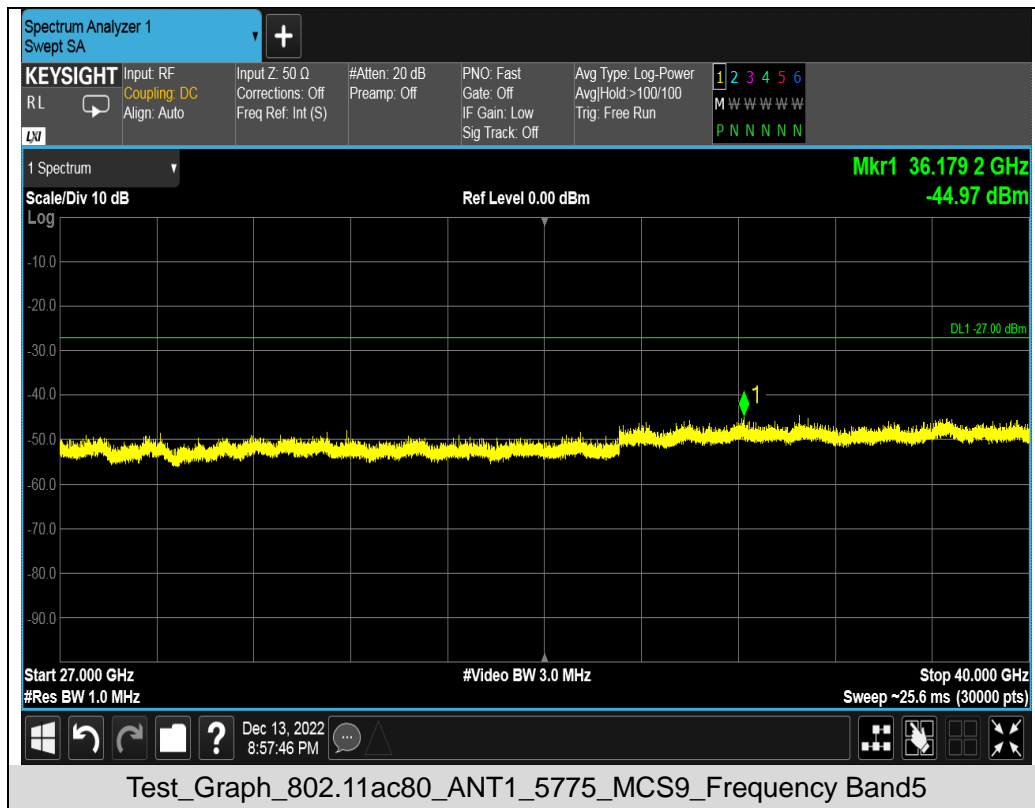
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11. RADIATED EMISSION

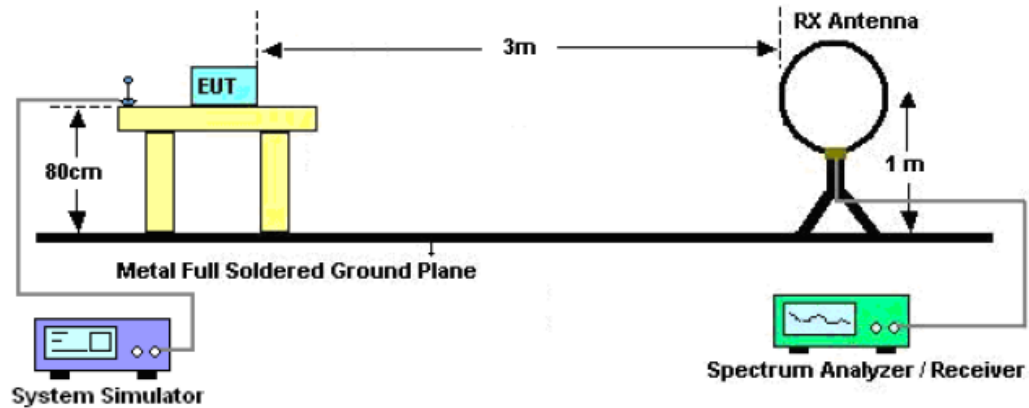
11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna 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.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

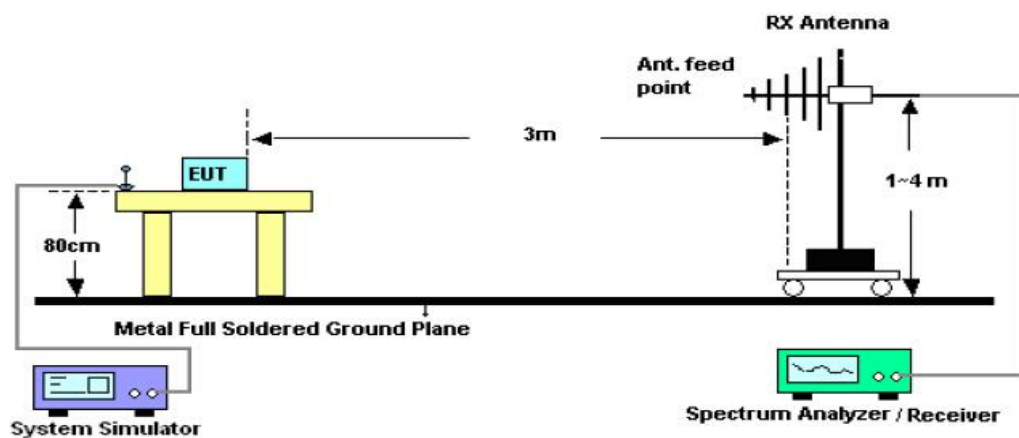
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11.2. TEST SETUP

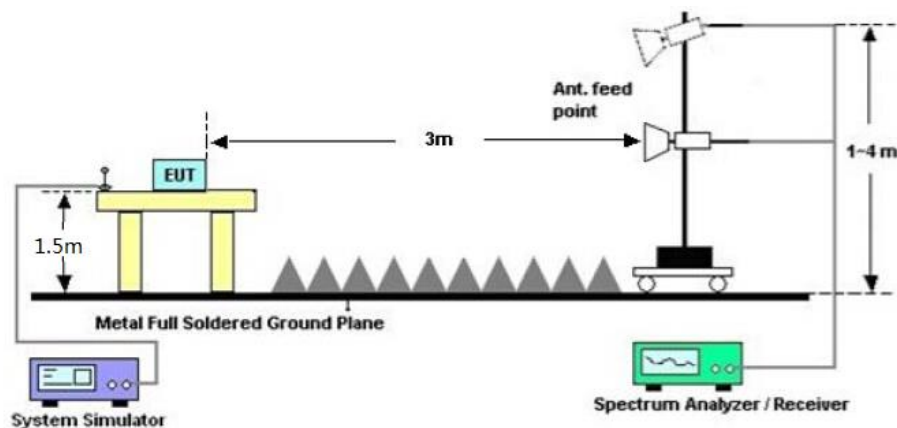
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

Radiated emission below 30MHz

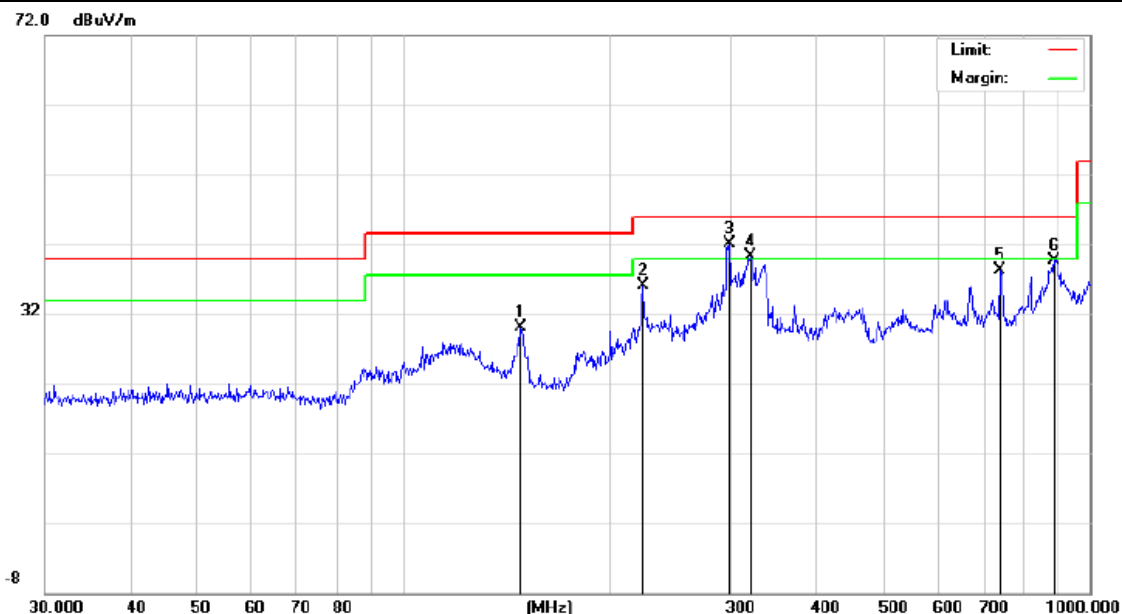
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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Radiated emission from 30MHz to 1000MHz

EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

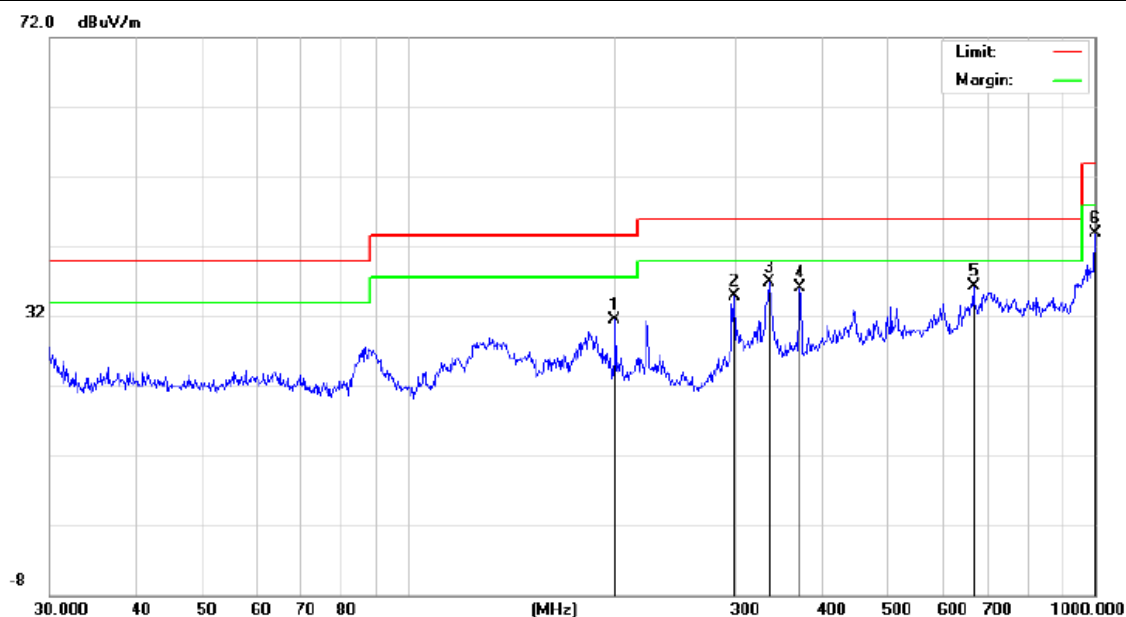


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		147.9214	13.64	16.41	30.05	43.50	-13.45	peak
2		223.7334	16.08	19.96	36.04	46.00	-9.96	peak
3	*	298.2681	17.64	24.45	42.09	46.00	-3.91	peak
4	!	319.9370	13.90	26.49	40.39	46.00	-5.61	peak
5		739.6604	13.38	24.93	38.31	46.00	-7.69	peak
6		887.6099	8.05	31.73	39.78	46.00	-6.22	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



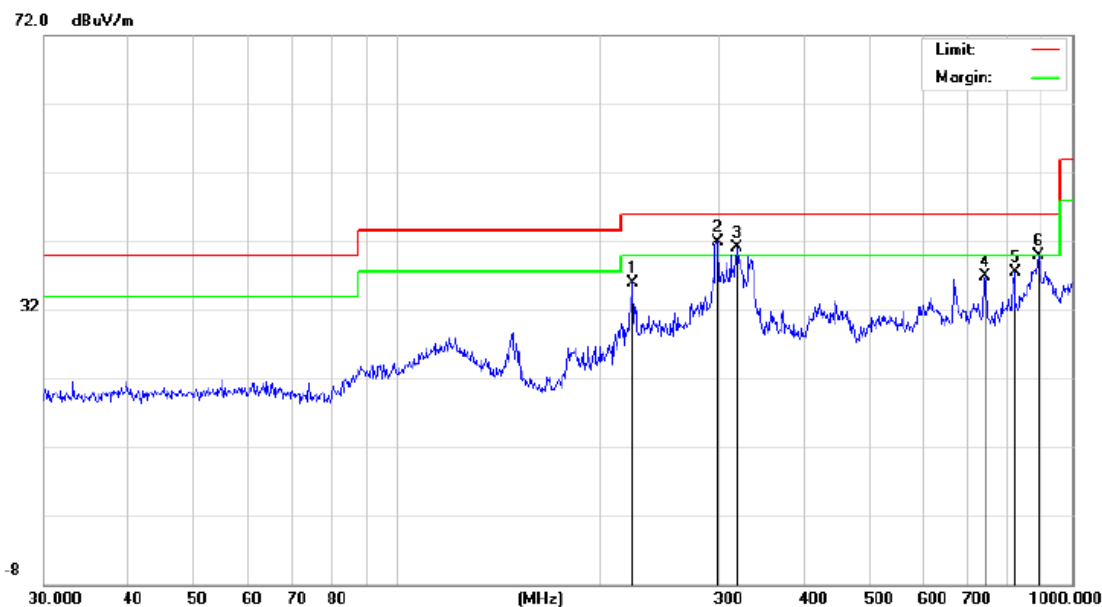
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		199.9856	16.69	14.90	31.59	43.50	-11.91	peak
2		298.2681	14.20	20.68	34.88	46.00	-11.12	peak
3	*	336.0352	16.43	20.54	36.97	46.00	-9.03	peak
4		372.0045	14.75	21.32	36.07	46.00	-9.93	peak
5		665.8035	8.67	27.56	36.23	46.00	-9.77	peak
6		1000.000	10.87	33.00	43.87	54.00	-10.13	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal



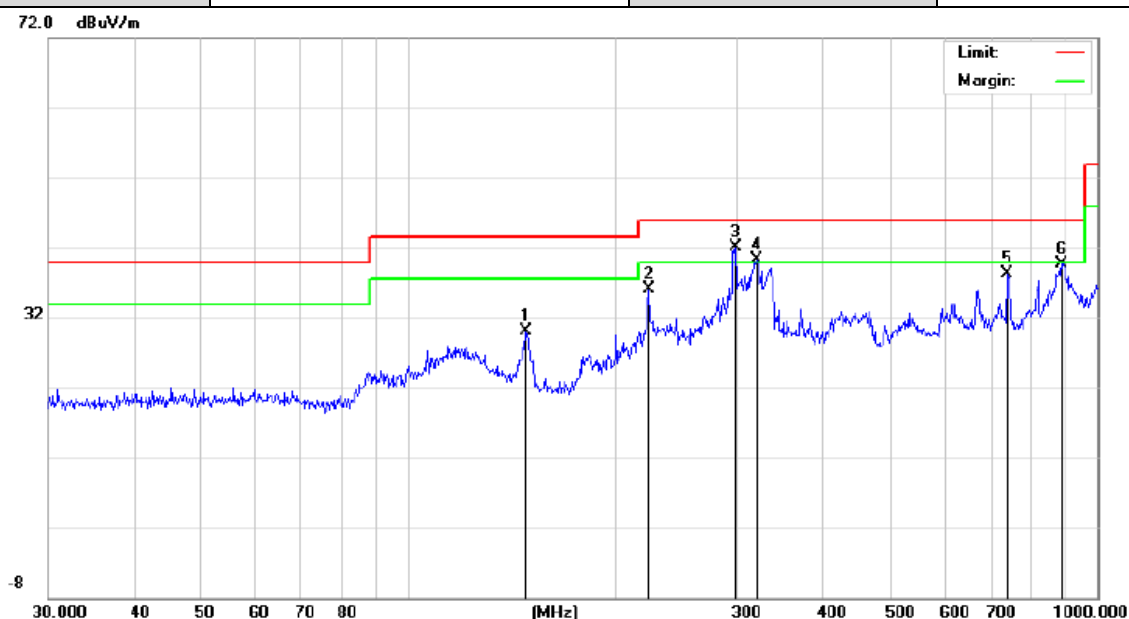
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		223.7334	15.99	19.96	35.95	46.00	-10.05	peak
2	*	298.2681	17.48	24.45	41.93	46.00	-4.07	peak
3	!	318.8170	14.71	26.38	41.09	46.00	-4.91	peak
4		742.2587	12.05	24.93	36.98	46.00	-9.02	peak
5		821.7103	10.71	26.80	37.51	46.00	-8.49	peak
6		890.7278	8.41	31.50	39.91	46.00	-6.09	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Vertical



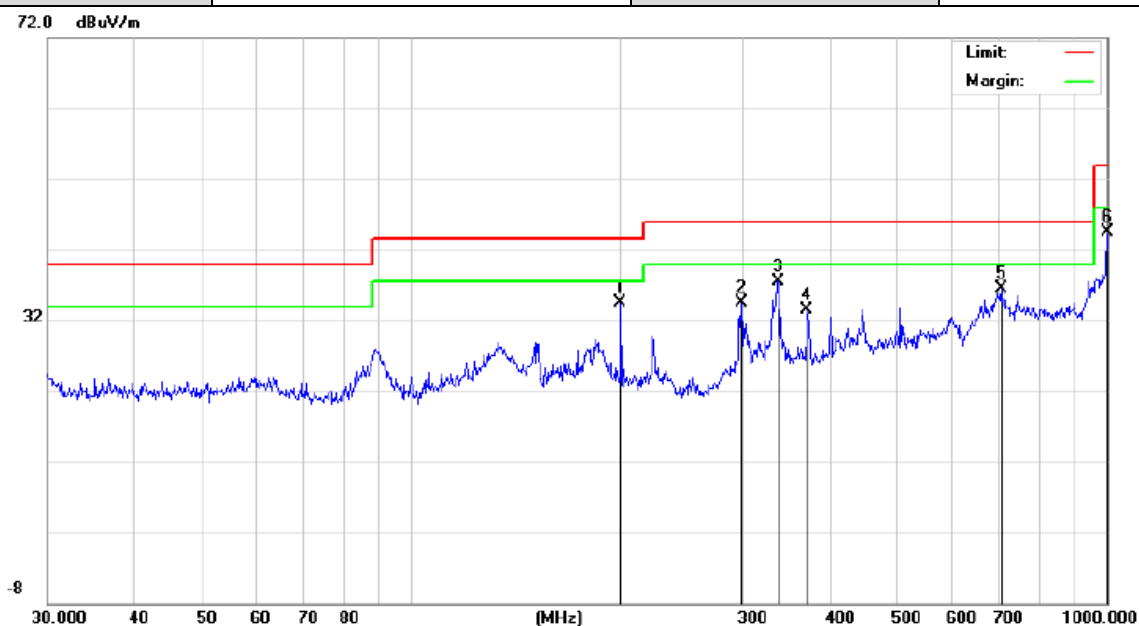
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		147.9214	13.64	16.41	30.05	43.50	-13.45	peak
2		223.7334	16.08	19.96	36.04	46.00	-9.96	peak
3	*	298.2681	17.64	24.45	42.09	46.00	-3.91	peak
4	!	319.9370	13.90	26.49	40.39	46.00	-5.61	peak
5		739.6604	13.38	24.93	38.31	46.00	-7.69	peak
6		887.6099	8.05	31.73	39.78	46.00	-6.22	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal



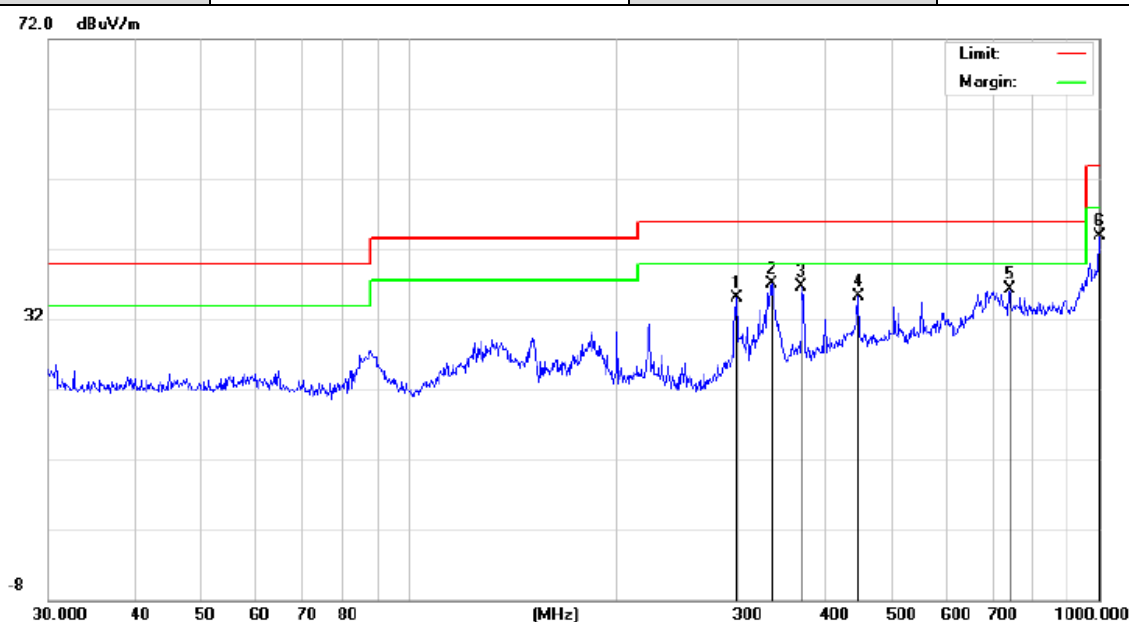
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		199.9856	19.68	14.90	34.58	43.50	-8.92	peak
2		298.2681	13.77	20.68	34.45	46.00	-11.55	peak
3	*	337.2155	16.97	20.56	37.53	46.00	-8.47	peak
4		370.7023	12.27	21.31	33.58	46.00	-12.42	peak
5		704.2261	6.64	29.83	36.47	46.00	-9.53	peak
6		1000.000	11.42	33.00	44.42	54.00	-9.58	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical



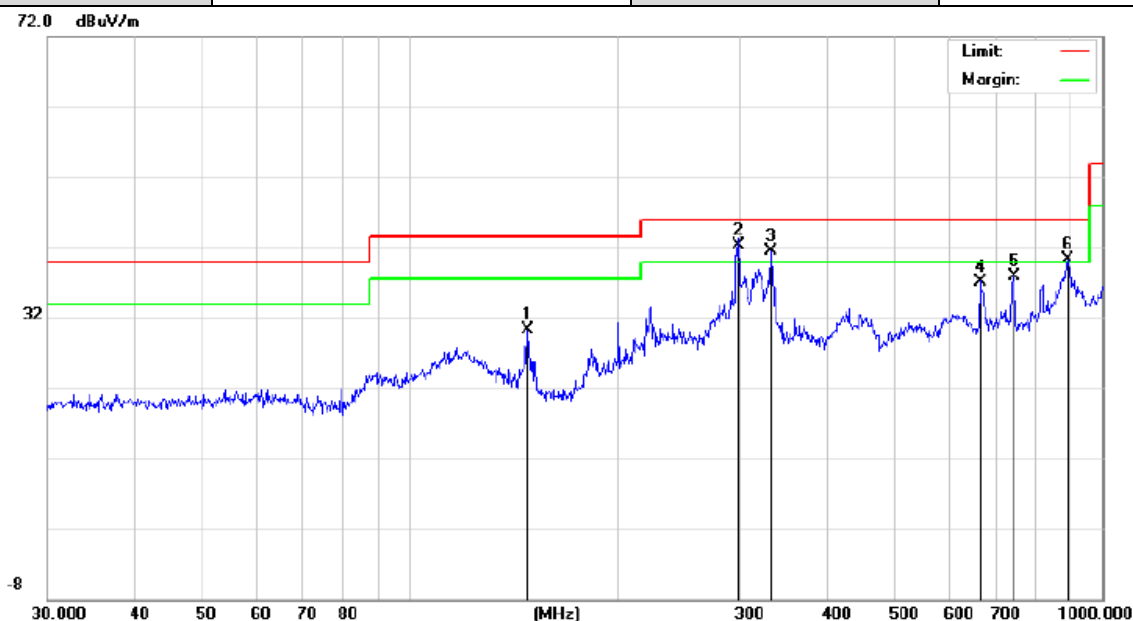
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		298.2681	14.46	20.68	35.14	46.00	-10.86	peak
2	*	336.0352	16.54	20.54	37.08	46.00	-8.92	peak
3		370.7023	15.43	21.31	36.74	46.00	-9.26	peak
4		447.9822	11.56	23.74	35.30	46.00	-10.70	peak
5		742.2587	9.20	27.05	36.25	46.00	-9.75	peak
6		1000.000	10.86	33.00	43.86	54.00	-10.14	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



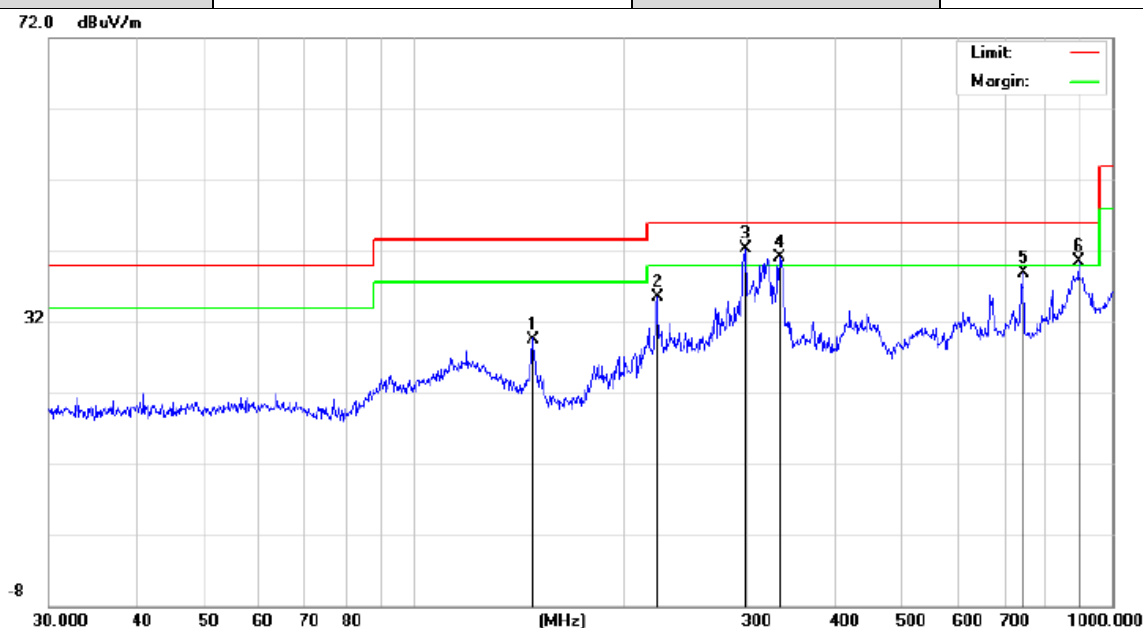
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		147.9214	13.82	16.41	30.23	43.50	-13.27	peak
2	*	298.2681	17.92	24.45	42.37	46.00	-3.63	QP
3	!	332.5187	17.08	24.37	41.45	46.00	-4.55	peak
4		665.8035	12.35	24.85	37.20	46.00	-8.80	peak
5		747.4825	12.86	25.01	37.87	46.00	-8.13	peak
6	!	890.7278	8.77	31.50	40.27	46.00	-5.73	peak

RESULT: PASS

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		147.9214	13.19	16.41	29.60	43.50	-13.90	peak
2		222.9502	15.74	19.84	35.58	46.00	-10.42	peak
3	*	298.2681	17.81	24.45	42.26	46.00	-3.74	peak
4	!	333.6867	16.91	24.17	41.08	46.00	-4.92	peak
5		747.4825	13.83	25.01	38.84	46.00	-7.16	peak
6	!	893.8567	9.28	31.26	40.54	46.00	-5.46	peak

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz, 5260MHz, 5500MHz and 5745MHz are the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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Radiated emission above 1GHz

EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	46.39	9.14	55.53	68.20	-12.67	peak
15540.063	41.26	10.22	51.48	74.00	-22.52	peak
15540.063	31.57	10.22	41.79	54.00	-12.21	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10360.042	47.16	9.14	56.30	68.20	-11.90	peak
15540.063	43.57	10.22	53.79	74.00	-20.21	peak
15540.063	32.49	10.22	42.71	54.00	-11.29	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	47.64	9.14	56.78	68.20	-11.42	peak
15600.063	42.15	10.22	52.37	74.00	-21.63	peak
15600.063	32.49	10.22	42.71	54.00	-11.29	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10400.042	46.37	9.14	55.51	68.20	-12.69	peak
15600.063	41.05	10.22	51.27	74.00	-22.73	peak
15600.063	32.57	10.22	42.79	54.00	-11.21	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	47.94	9.27	57.21	68.20	-10.99	peak
15720.063	42.06	10.38	52.44	74.00	-21.56	peak
15720.063	33.14	10.38	43.52	54.00	-10.48	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10480.042	47.64	9.27	56.91	68.20	-11.29	peak
15720.063	42.05	10.38	52.43	74.00	-21.57	peak
15720.063	31.98	10.38	42.36	54.00	-11.64	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.044	48.54	9.29	57.83	68.20	-10.37	peak
15780.066	42.36	10.42	52.78	74.00	-21.22	peak
15780.066	32.48	10.42	42.90	54.00	-11.10	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10520.044	46.37	9.29	55.66	68.20	-12.54	peak
15780.066	41.02	10.42	51.44	74.00	-22.56	peak
15780.066	32.87	10.42	43.29	54.00	-10.71	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5300MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.044	46.38	9.31	55.69	74.00	-18.31	peak
10600.044	36.24	9.31	45.55	54.00	-8.45	AVG
15900.066	41.05	10.44	51.49	74.00	-22.51	peak
15900.066	32.49	10.44	42.93	54.00	-11.07	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10600.044	48.61	9.31	57.92	74.00	-16.08	peak
10600.044	38.54	9.31	47.85	54.00	-6.15	AVG
15780.066	42.16	10.44	52.60	74.00	-21.40	peak
15780.066	33.47	10.44	43.91	54.00	-10.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.044	47.64	9.35	56.99	74.00	-17.01	peak
10640.044	38.54	9.35	47.89	54.00	-6.11	AVG
15960.066	41.05	10.46	51.51	74.00	-22.49	peak
15960.066	32.49	10.46	42.95	54.00	-11.05	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
10640.044	47.53	9.35	56.88	74.00	-17.12	peak
10640.044	38.54	9.35	47.89	54.00	-6.11	AVG
15960.066	42.15	10.46	52.61	74.00	-21.39	peak
15960.066	31.98	10.46	42.44	54.00	-11.56	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11000.044	47.64	9.37	57.01	74.00	-16.99	peak
11000.044	38.67	9.37	48.04	54.00	-5.96	AVG
16500.066	42.55	10.48	53.03	68.20	-15.17	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11000.044	48.24	9.37	57.61	74.00	-16.39	peak
11000.044	38.64	9.37	48.01	54.00	-5.99	AVG
16500.066	43.02	10.48	53.50	68.20	-14.70	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5600MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11200.044	47.64	9.38	57.02	74.00	-16.98	peak
11200.044	39.64	9.38	49.02	54.00	-4.98	AVG
16800.066	42.15	10.49	52.64	68.20	-15.56	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11200.044	47.51	9.38	56.89	74.00	-17.11	peak
11200.044	38.42	9.38	47.80	54.00	-6.20	AVG
16800.066	42.19	10.49	52.68	68.20	-15.52	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5700MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11400.044	48.64	9.39	58.03	74.00	-15.97	peak
11400.044	37.49	9.39	46.88	54.00	-7.12	AVG
17100.066	42.88	10.49	53.37	68.20	-14.83	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11400.044	47.64	9.39	57.03	74.00	-16.97	peak
11400.044	36.24	9.39	45.63	54.00	-8.37	AVG
17100.066	41.05	10.49	51.54	68.20	-16.66	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	47.52	9.42	56.94	74.00	-17.06	peak
11490.042	37.54	9.42	46.96	54.00	-7.04	AVG
17235.063	41.05	10.51	51.56	68.20	-16.64	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11490.042	47.64	9.42	57.06	74.00	-16.94	peak
11490.042	37.54	9.42	46.96	54.00	-7.04	AVG
17235.063	42.57	10.51	53.08	68.20	-15.12	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	46.23	9.42	55.65	74.00	-18.35	peak
11570.042	36.58	9.42	46.00	54.00	-8.00	AVG
17355.063	42.01	10.51	52.52	68.20	-15.68	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11570.042	47.64	9.42	57.06	74.00	-16.94	peak
11570.042	47.12	9.42	56.54	54.00	2.54	AVG
17355.063	42.08	10.51	52.59	68.20	-15.61	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	47.64	9.62	52.98	74.00	-21.02	peak
11650.042	36.25	9.62	45.05	54.00	-8.95	AVG
17475.063	42.05	10.75	47.61	68.20	-26.39	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
11650.042	47.64	9.62	53.55	74.00	-20.45	peak
11650.042	37.54	9.62	47.64	54.00	-6.36	AVG
17475.063	42.03	10.75	48.61	68.20	-25.39	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.

Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

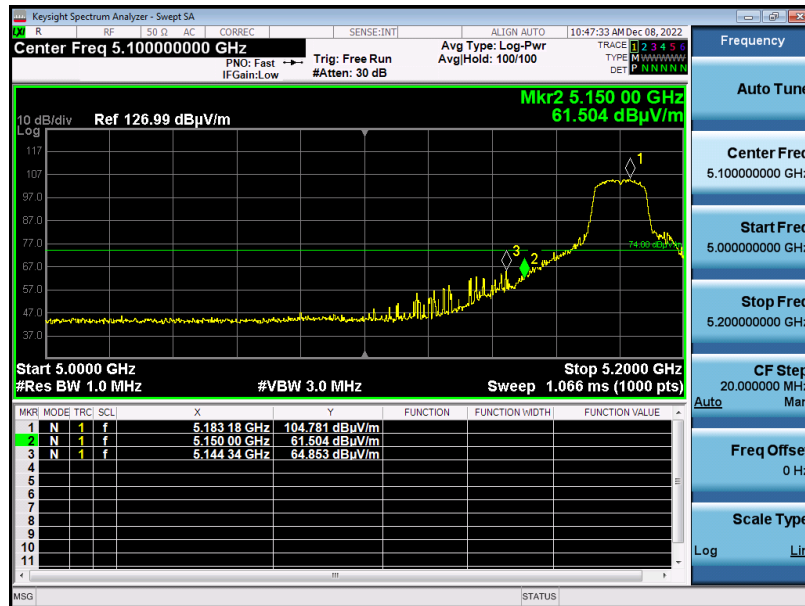
Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

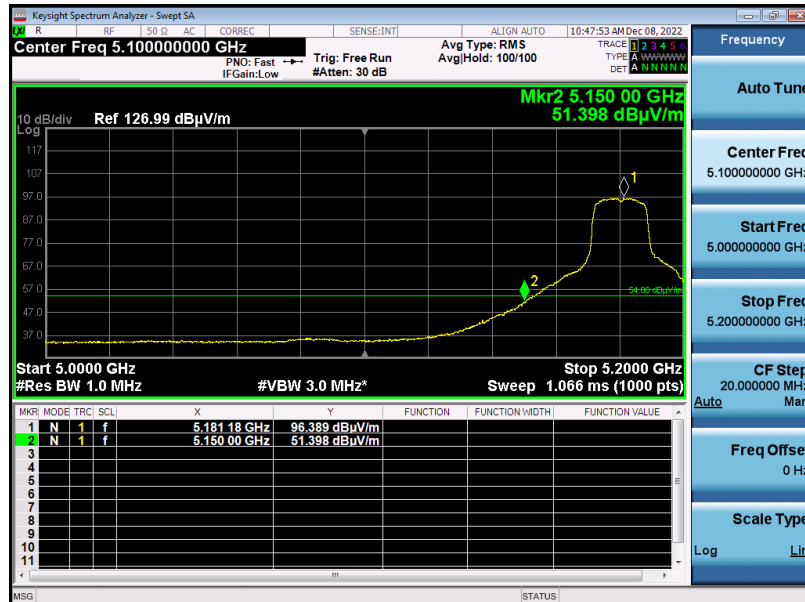
Test result for band edge emission at restricted bands

EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



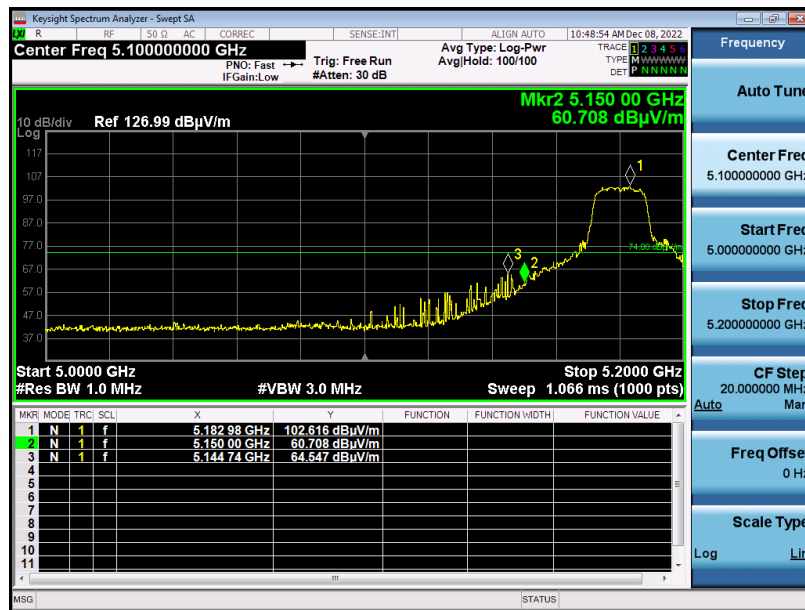
RESULT: PASS

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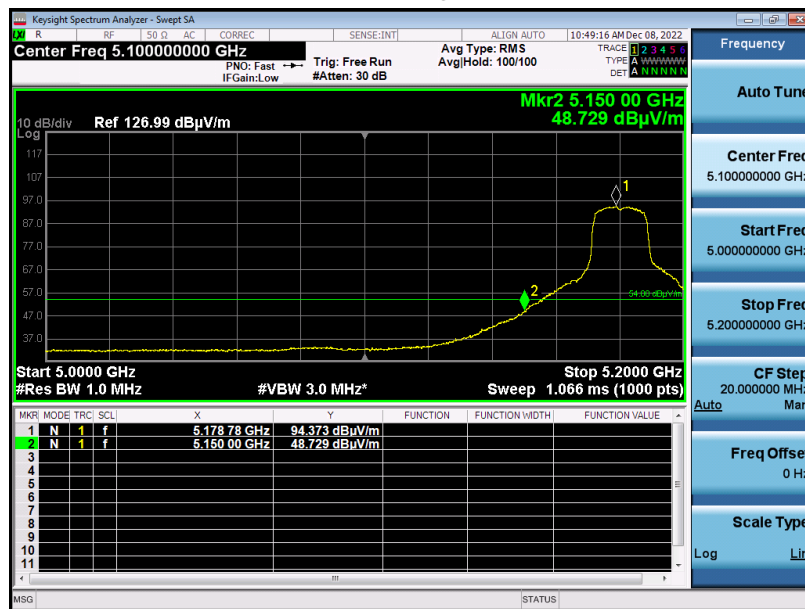
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



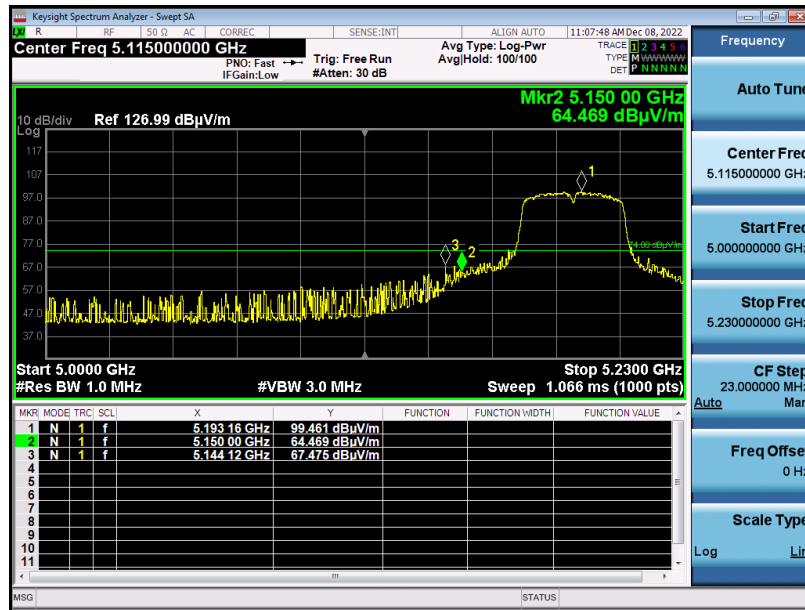
RESULT: PASS

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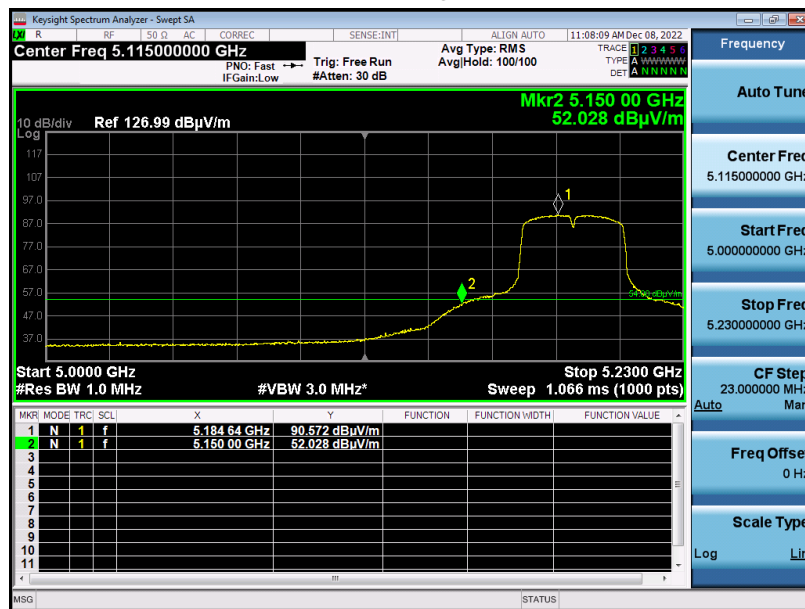
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



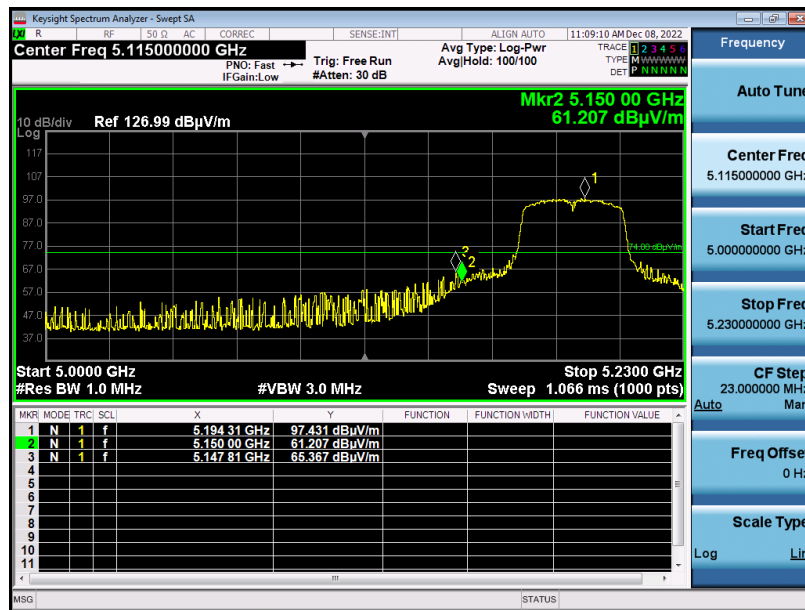
RESULT: PASS

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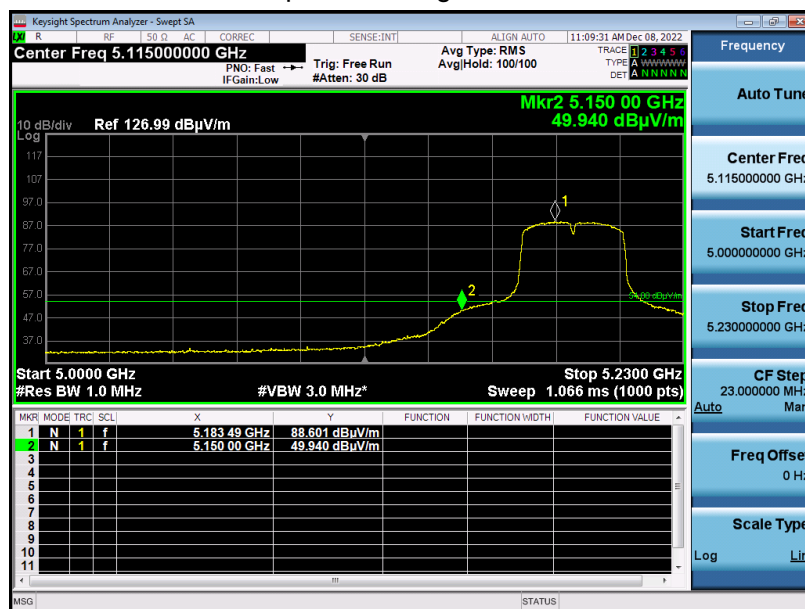
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



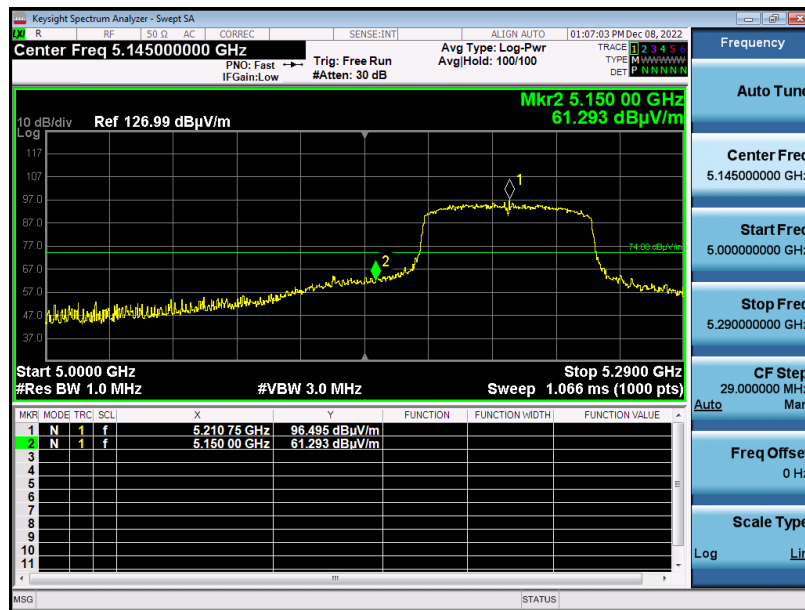
RESULT: PASS

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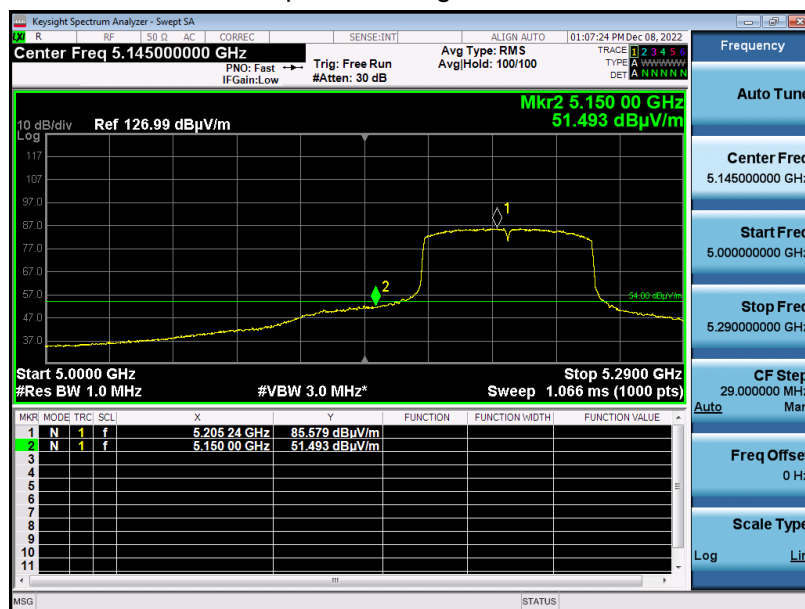
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



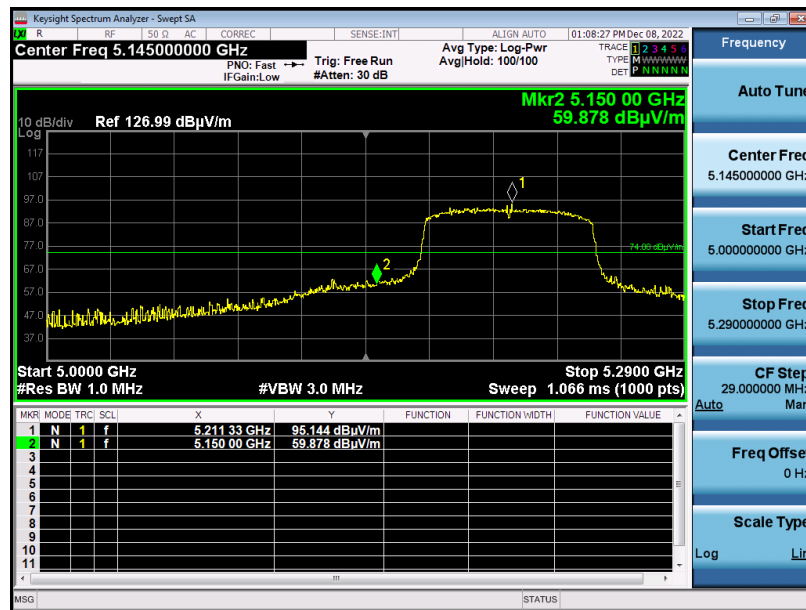
RESULT: PASS

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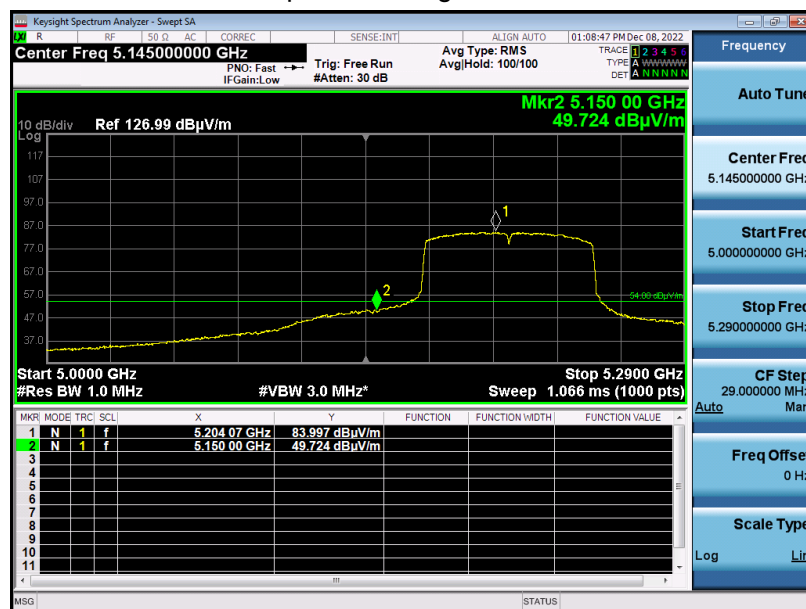
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

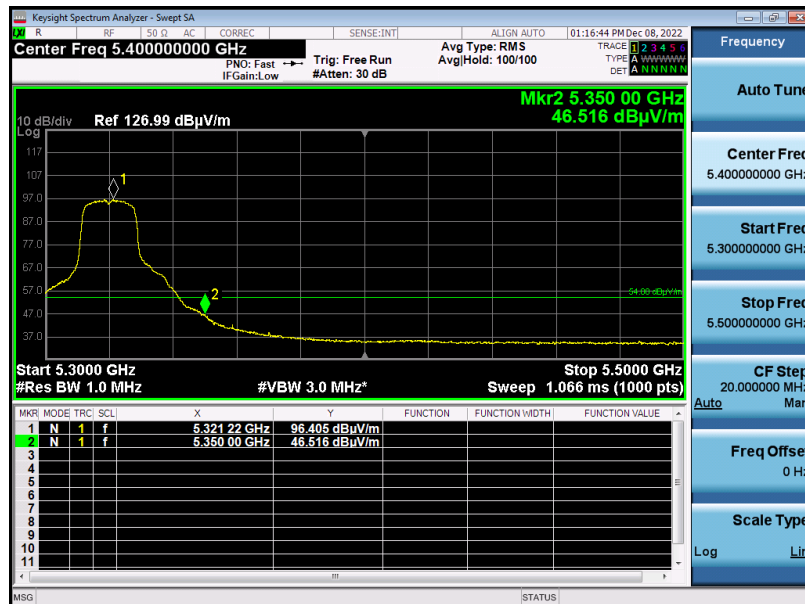
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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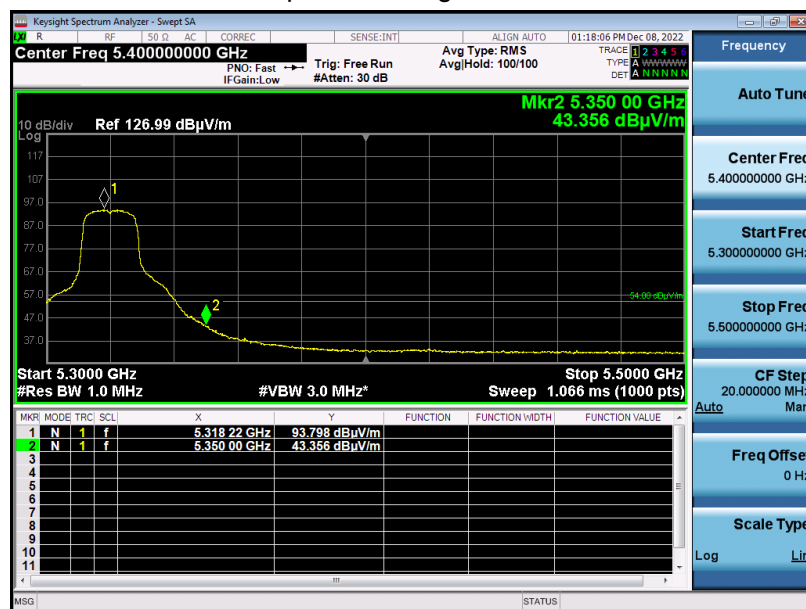
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



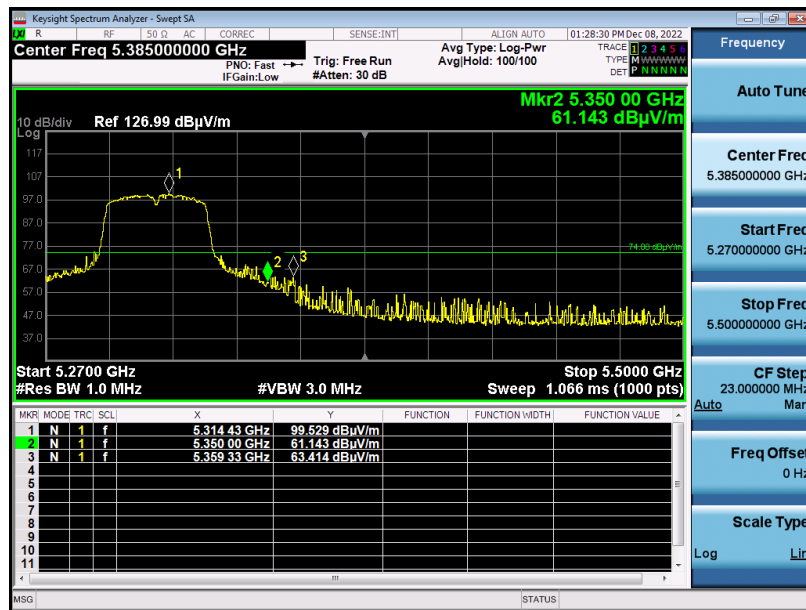
RESULT: PASS

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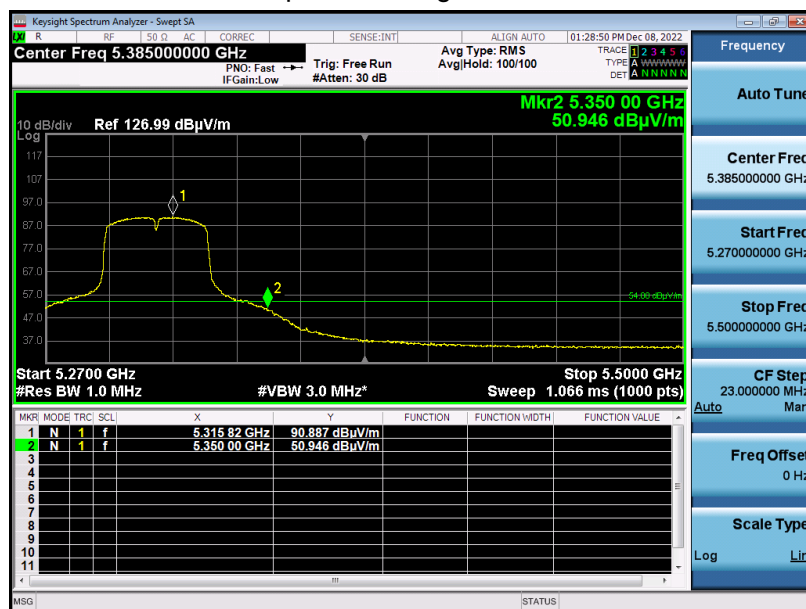
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5310MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



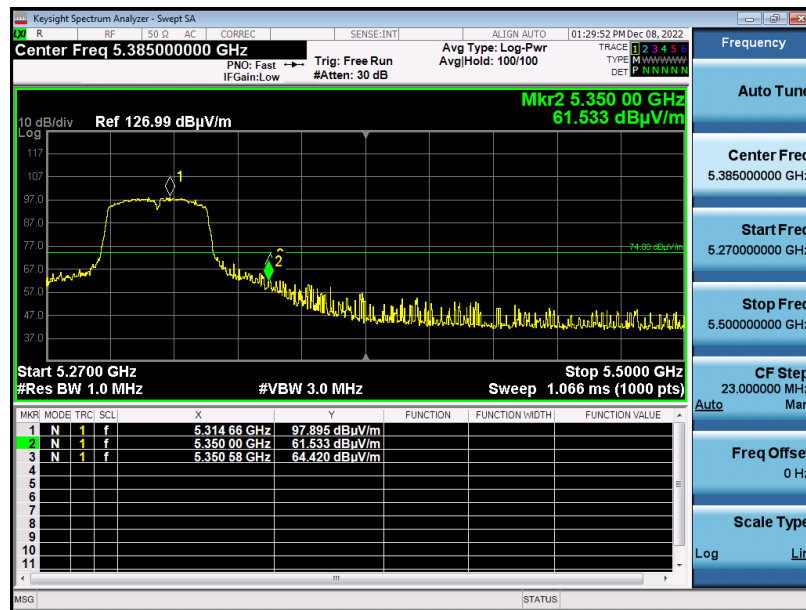
RESULT: PASS

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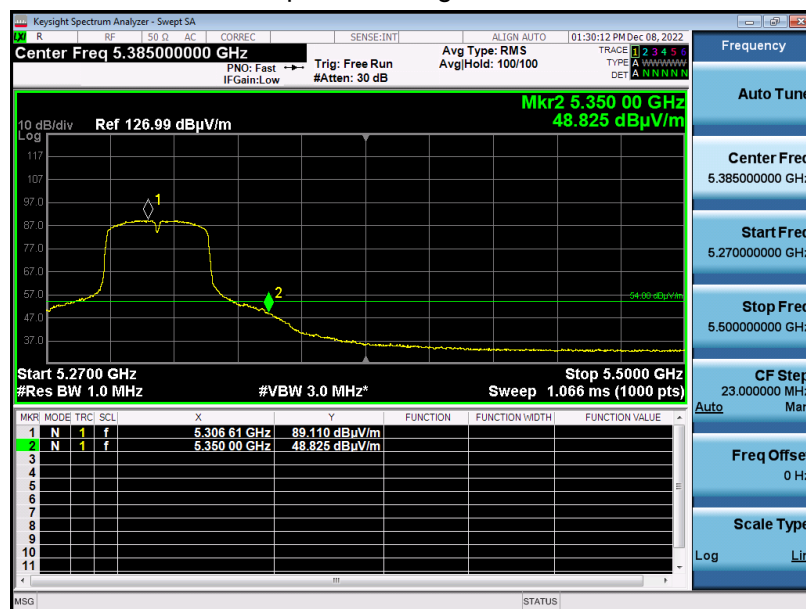
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EUT	23.8inch All In One	Model Name	WWAIO23-I38BK256
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5310MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

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