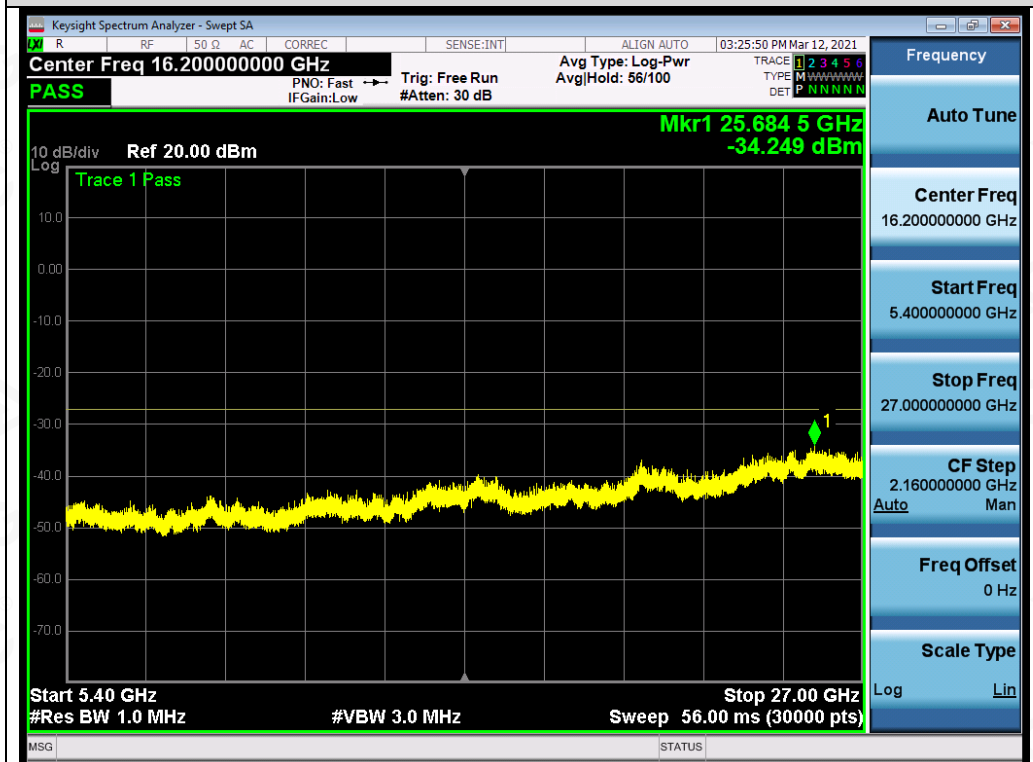


Test_Graph_802.11ac80_ANT1_5290_MCS9_Frequency Band 3



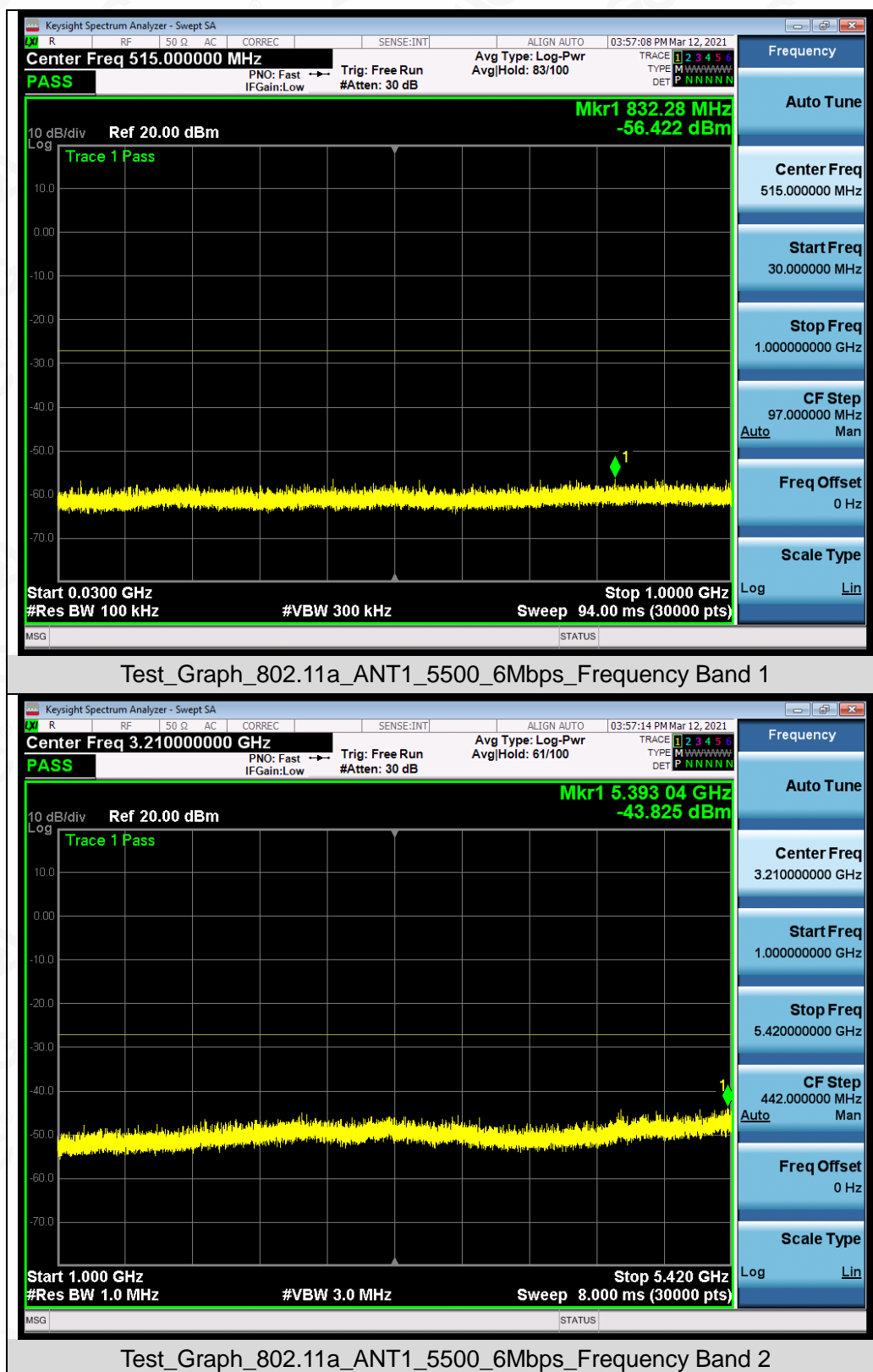
Test_Graph_802.11ac80_ANT1_5290_MCS9_Frequency Band 4

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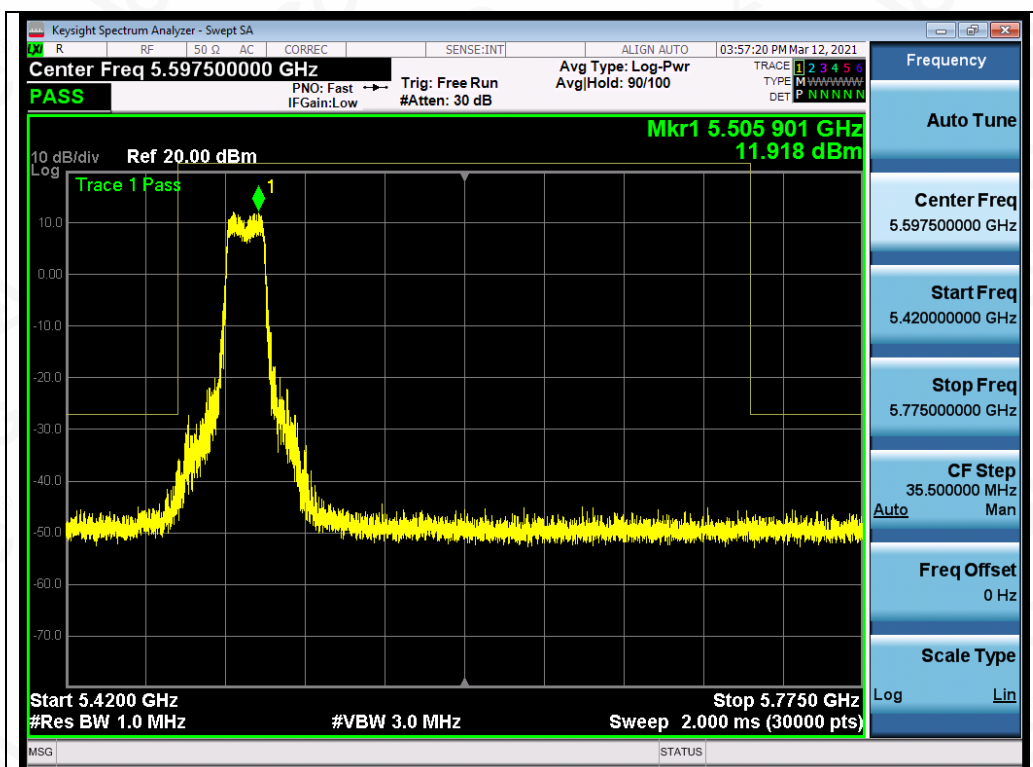


Test Graphs of Spurious Emissions outside of the 5.47-5.725 GHz band for transmitters operating in the 5.47-5.725 GHz band



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Test_Graph_802.11a_ANT1_5500_6Mbps_Frequency Band 3

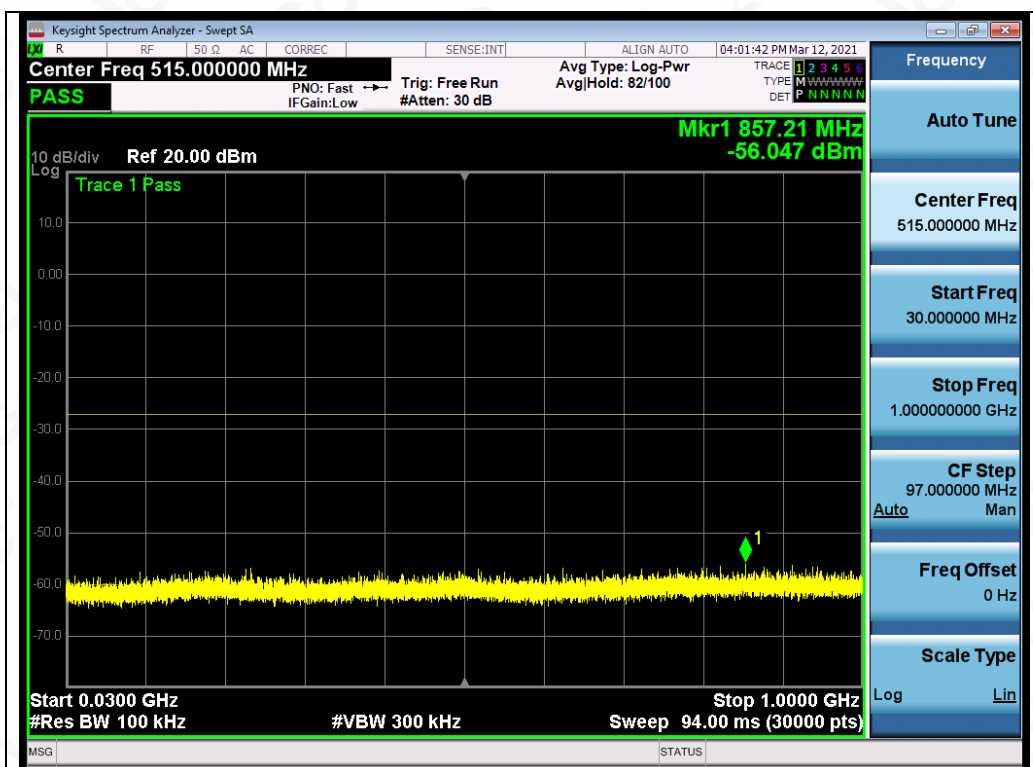


Test_Graph_802.11a_ANT1_5500_6Mbps_Frequency Band 4

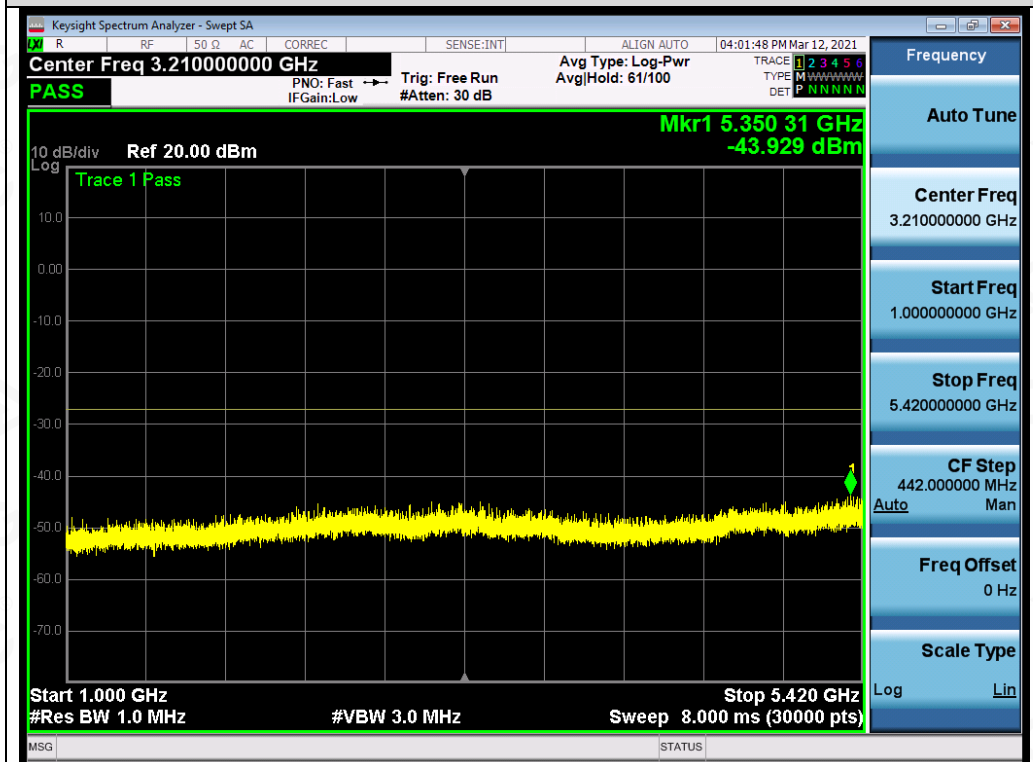
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Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 1

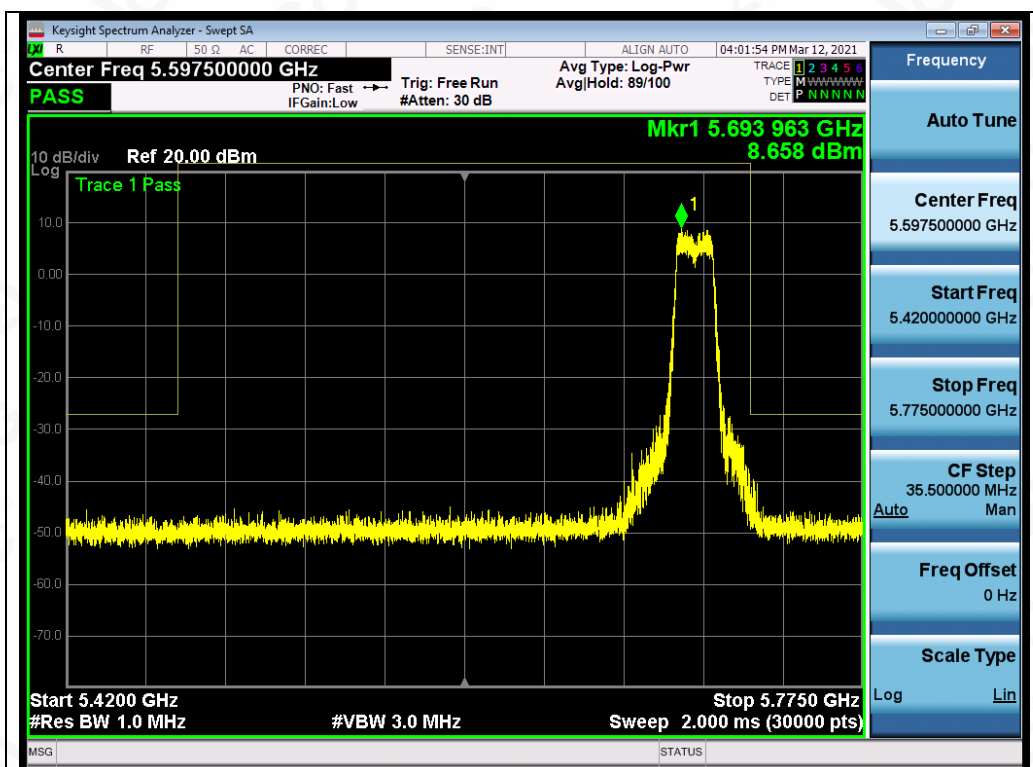


Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 2

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Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 3

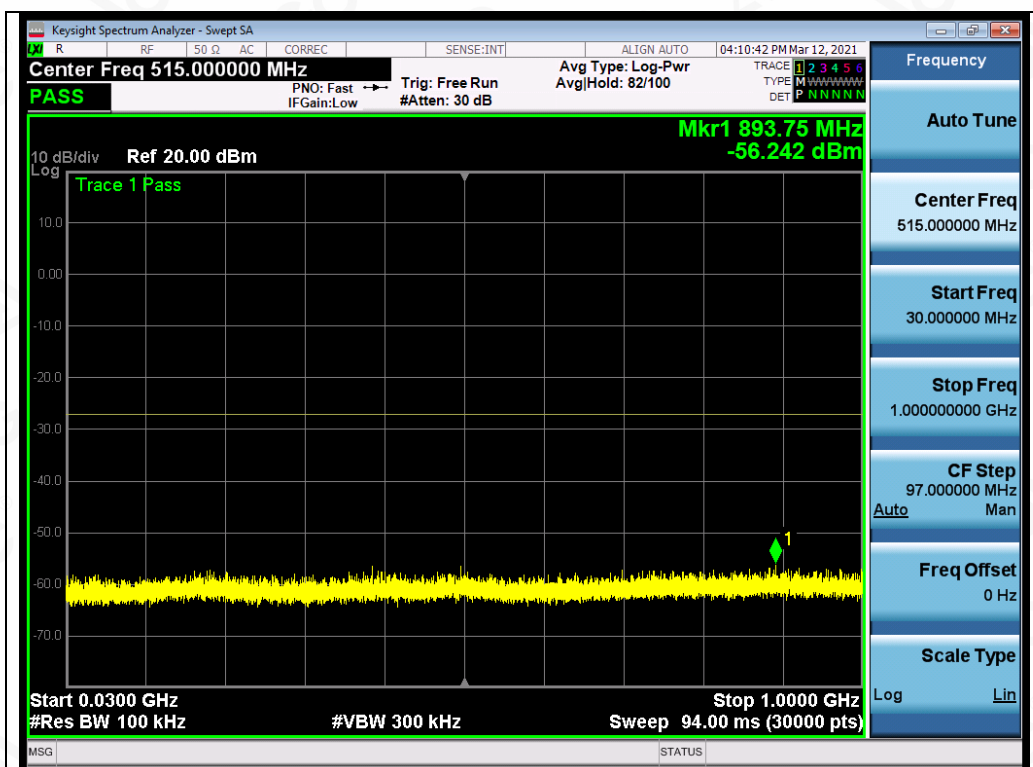


Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 4

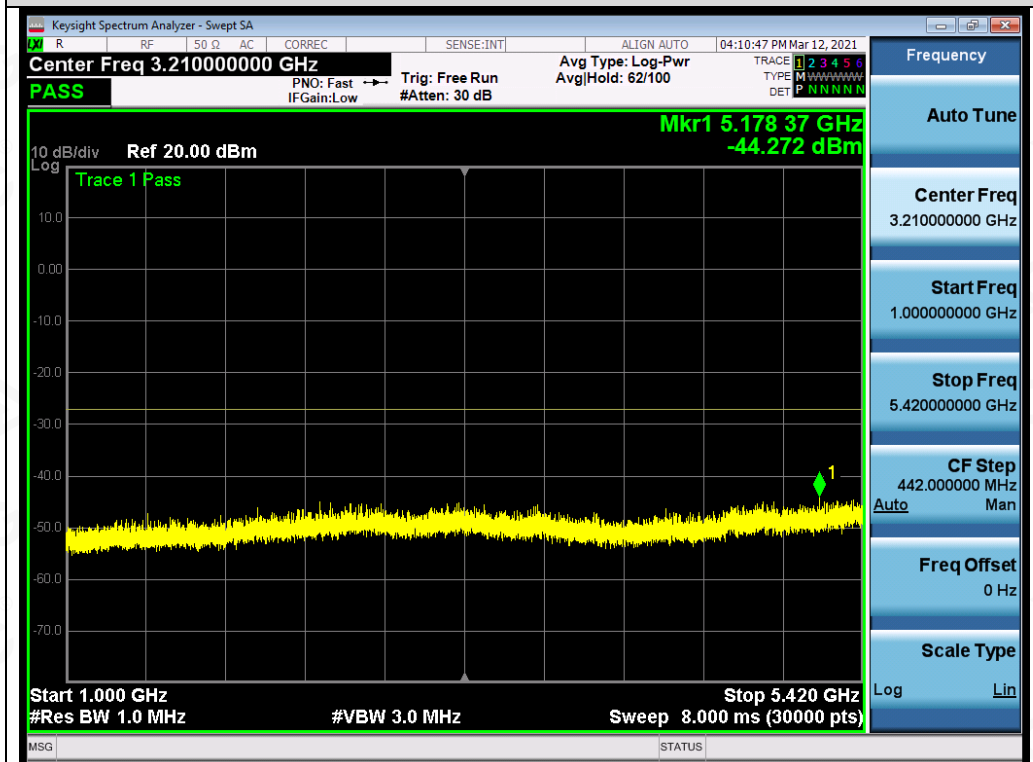
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Test_Graph_802.11n40_ANT1_5510_MCS0_Frequency Band 1

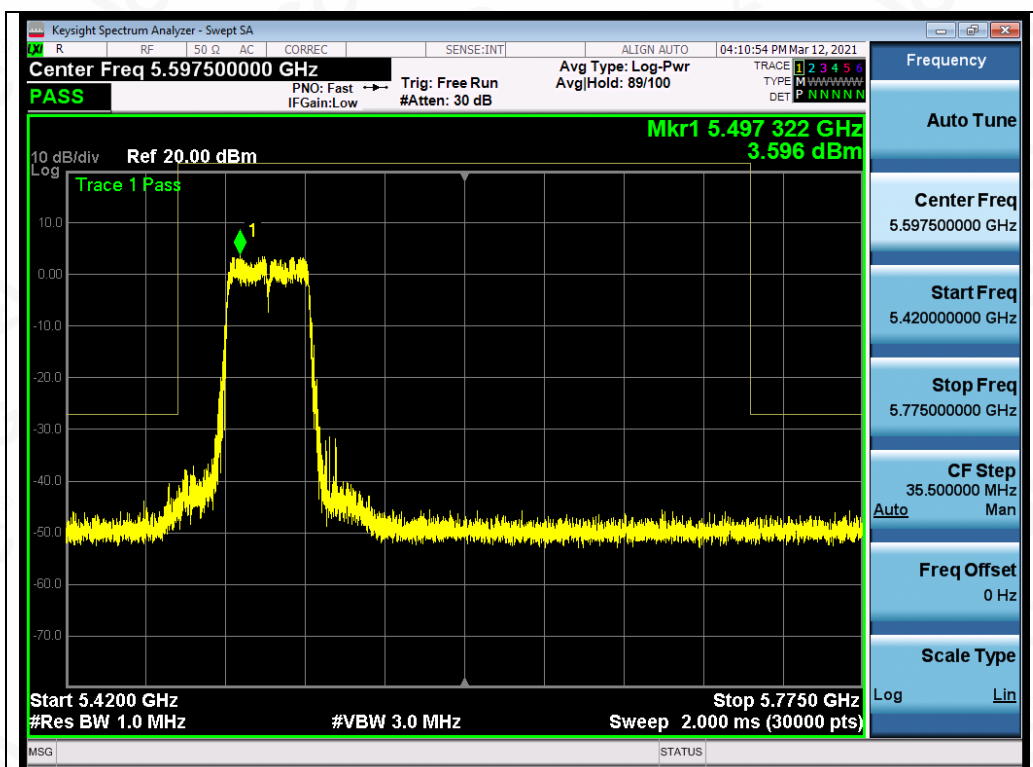


Test_Graph_802.11n40_ANT1_5510_MCS0_Frequency Band 2

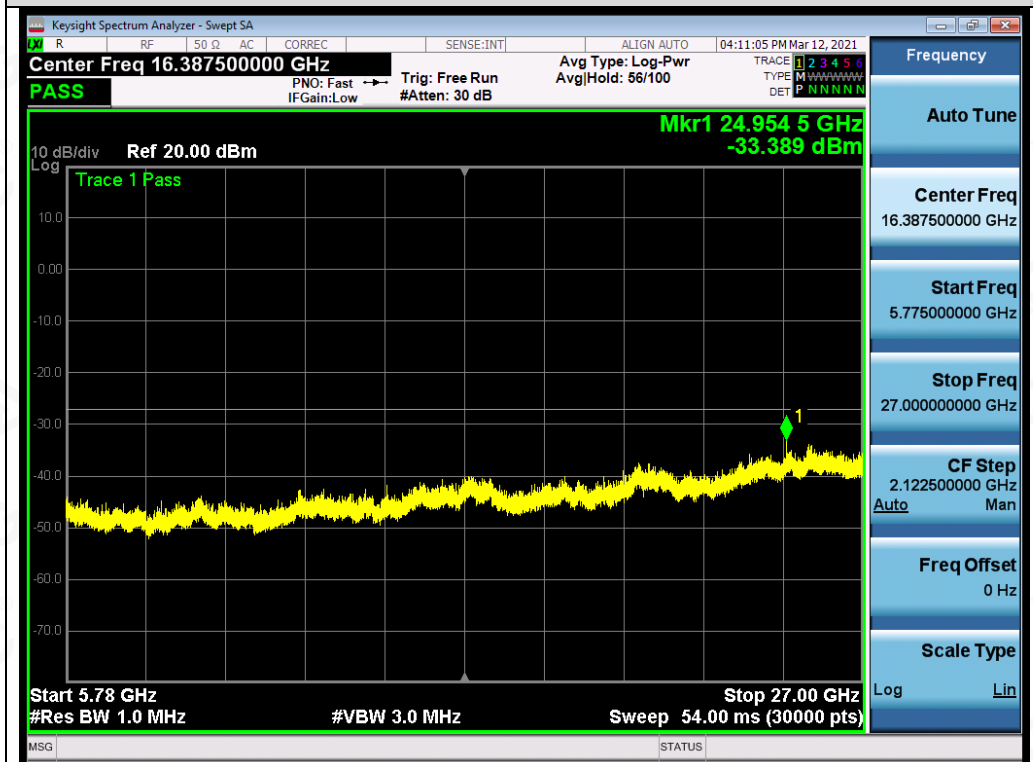
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Test_Graph_802.11n40_ANT1_5510_MCS0_Frequency Band 3

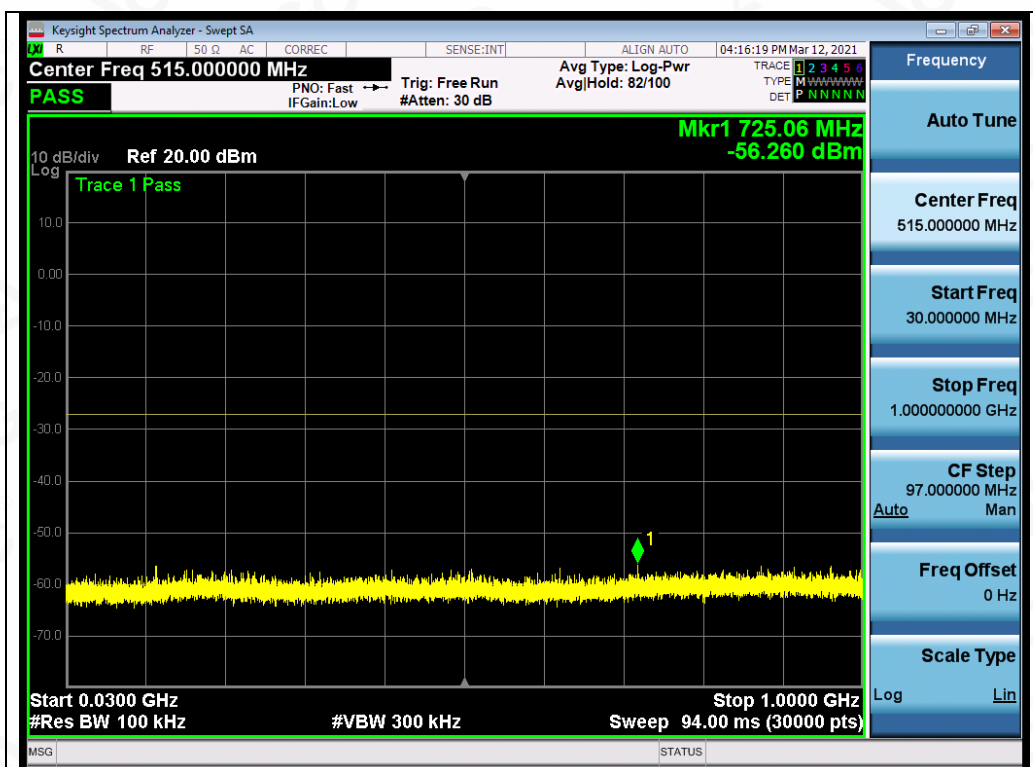


Test_Graph_802.11n40_ANT1_5510_MCS0_Frequency Band 4

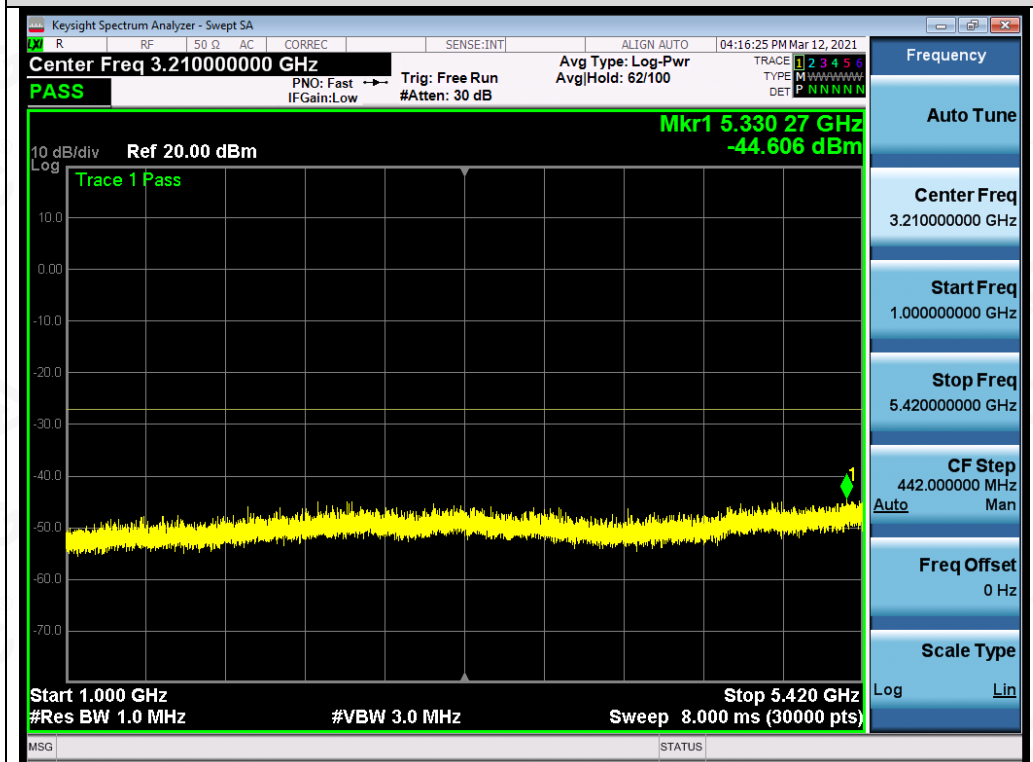
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Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 1

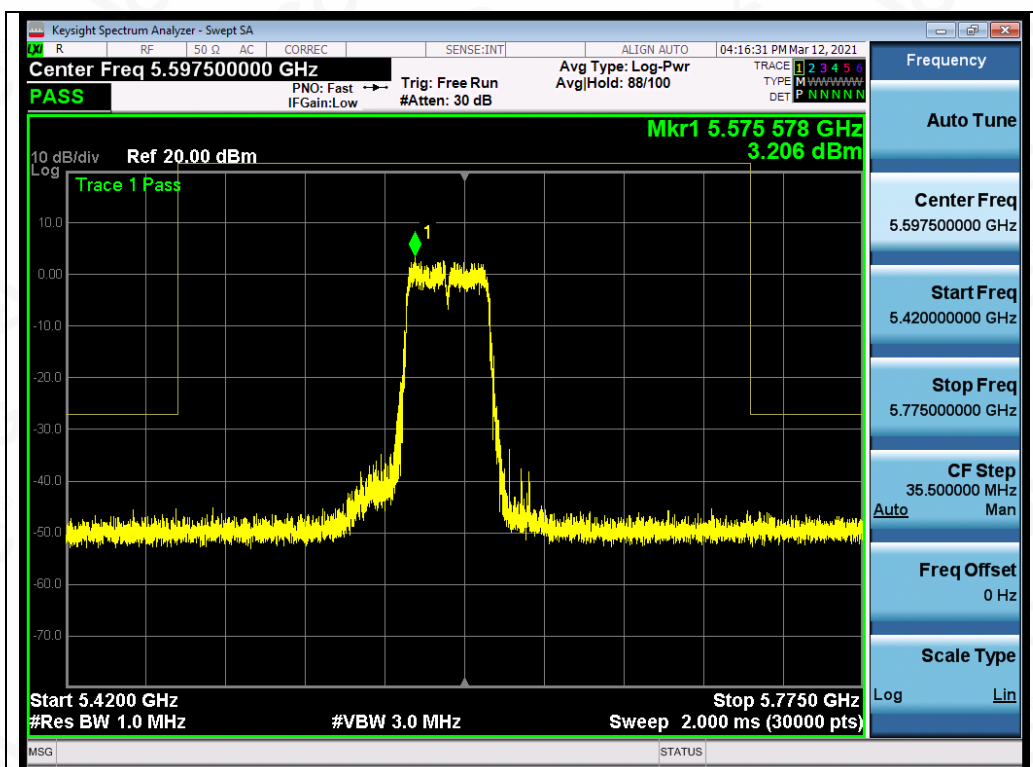


Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 2

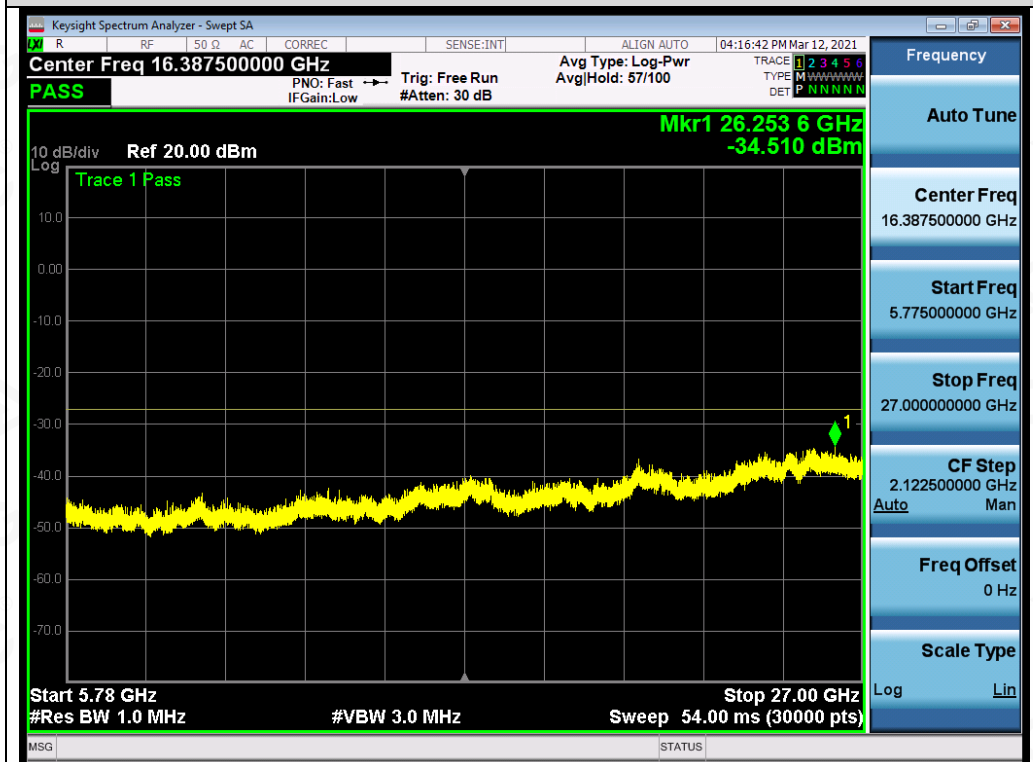
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Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 3

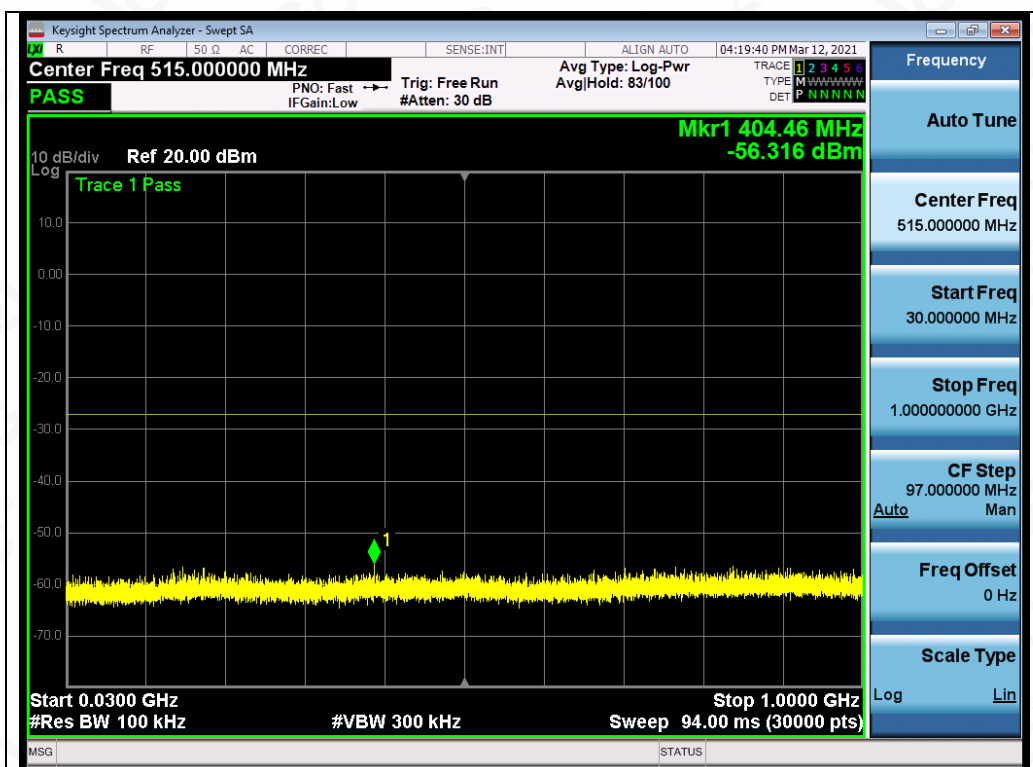


Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 4

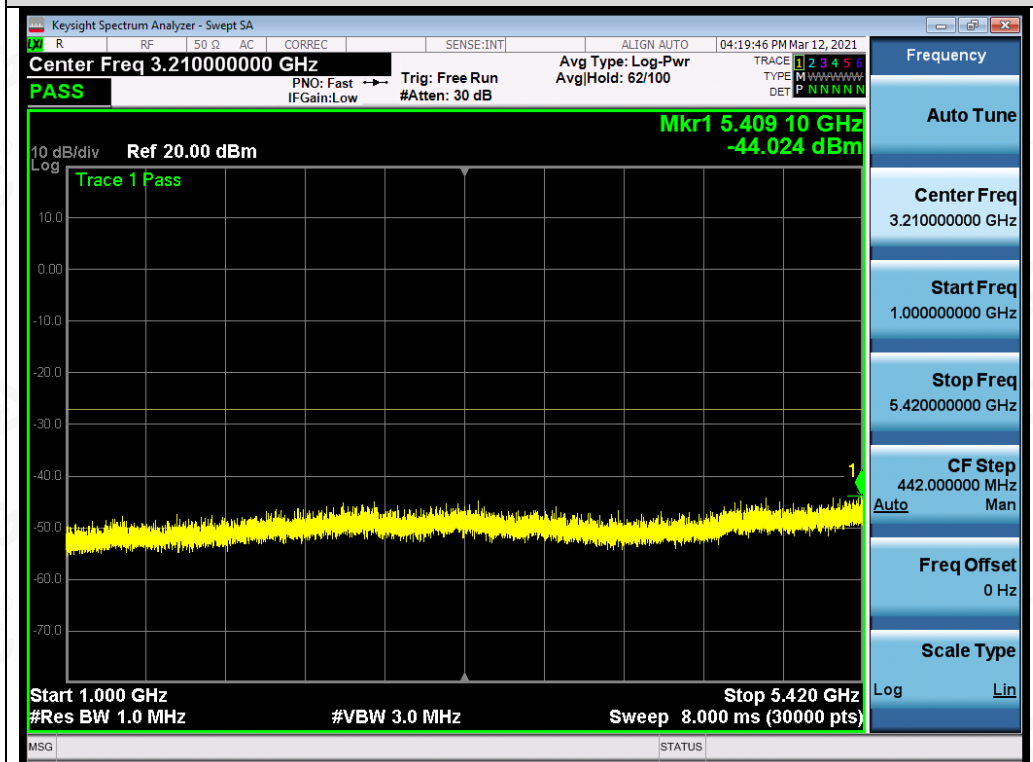
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Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 1

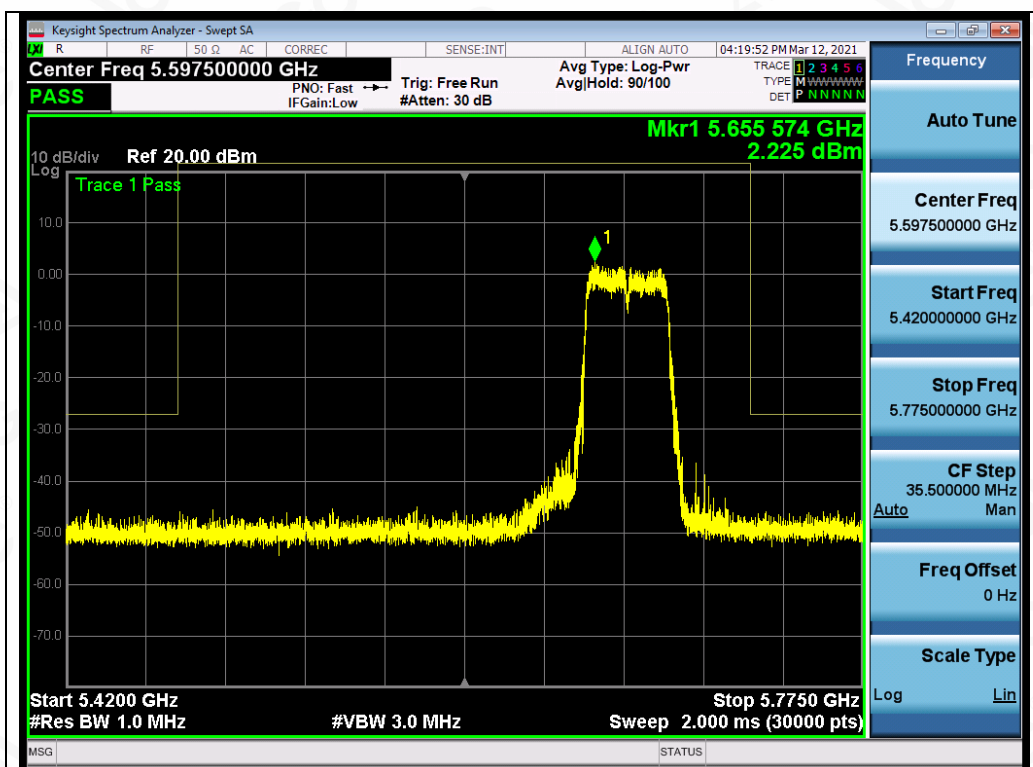


Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 2

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Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 3

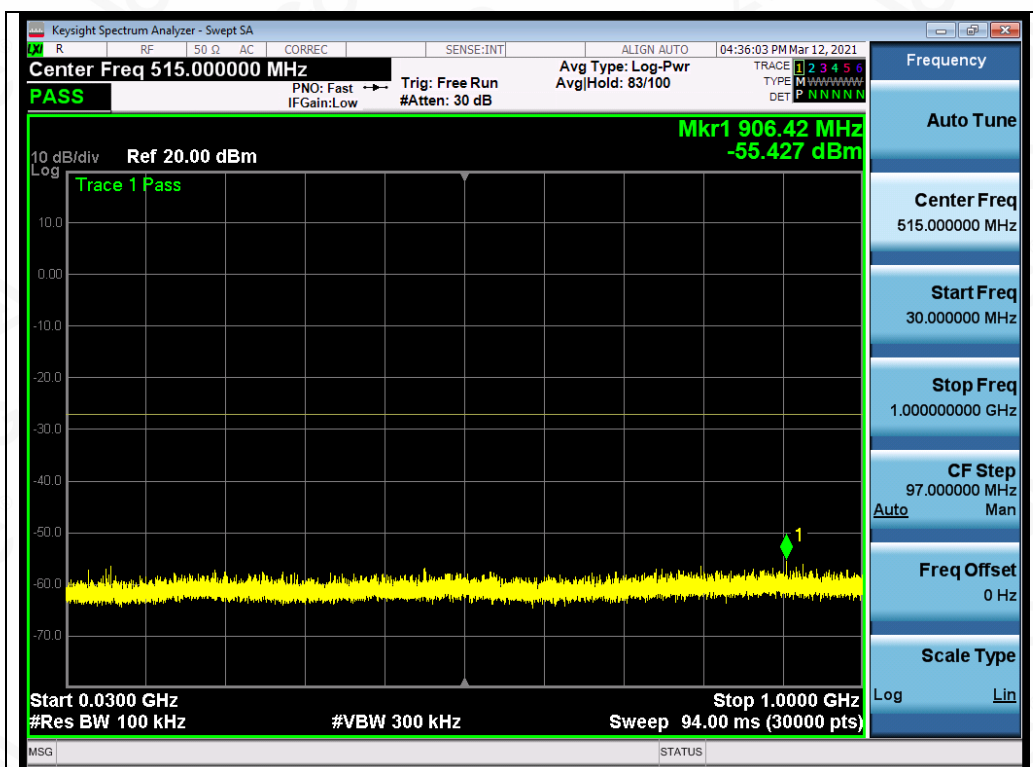


Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 4

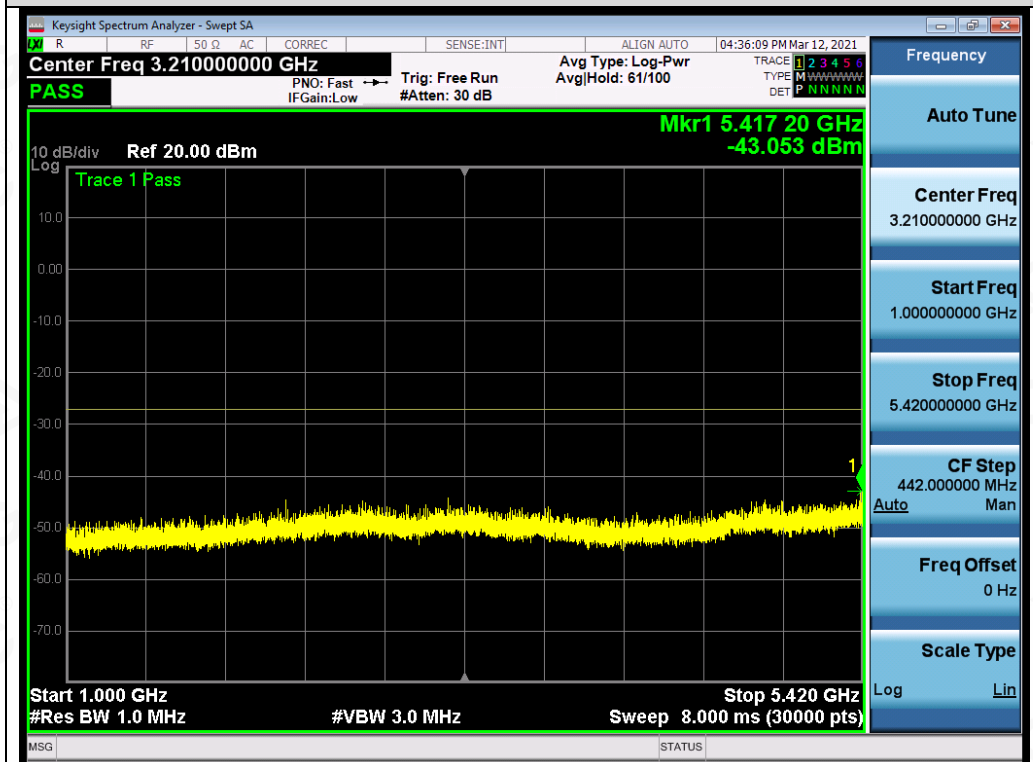
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Test_Graph_802.11ac80_ANT1_5530_MCS9_Frequency Band 1

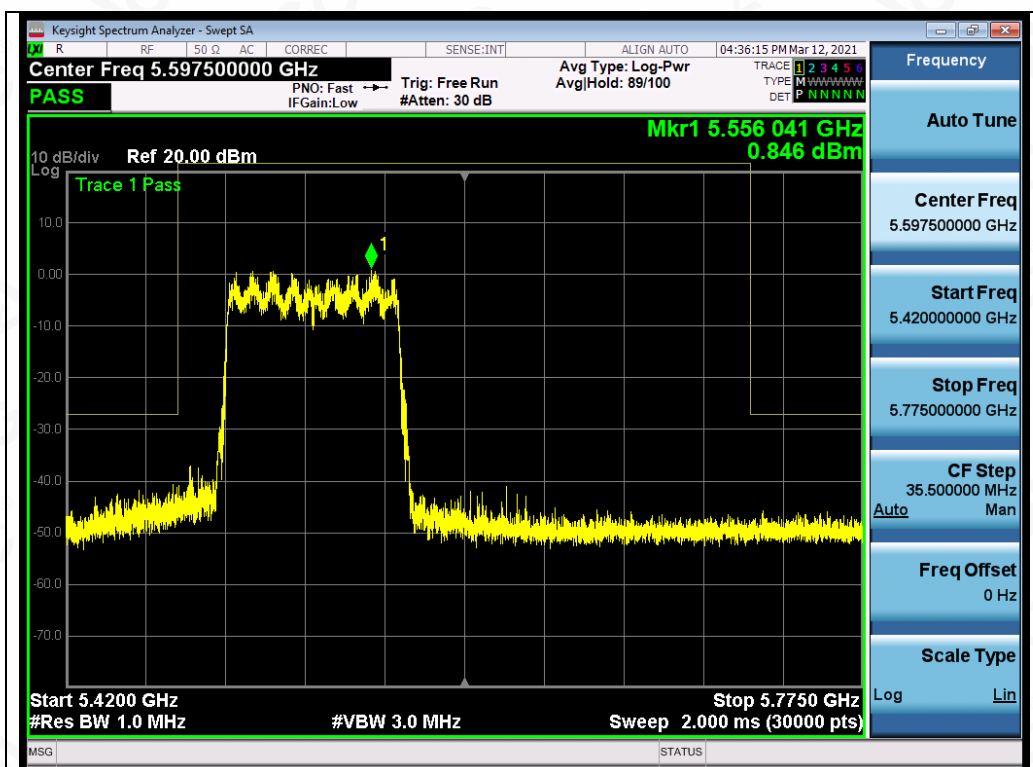


Test_Graph_802.11ac80_ANT1_5530_MCS9_Frequency Band 2

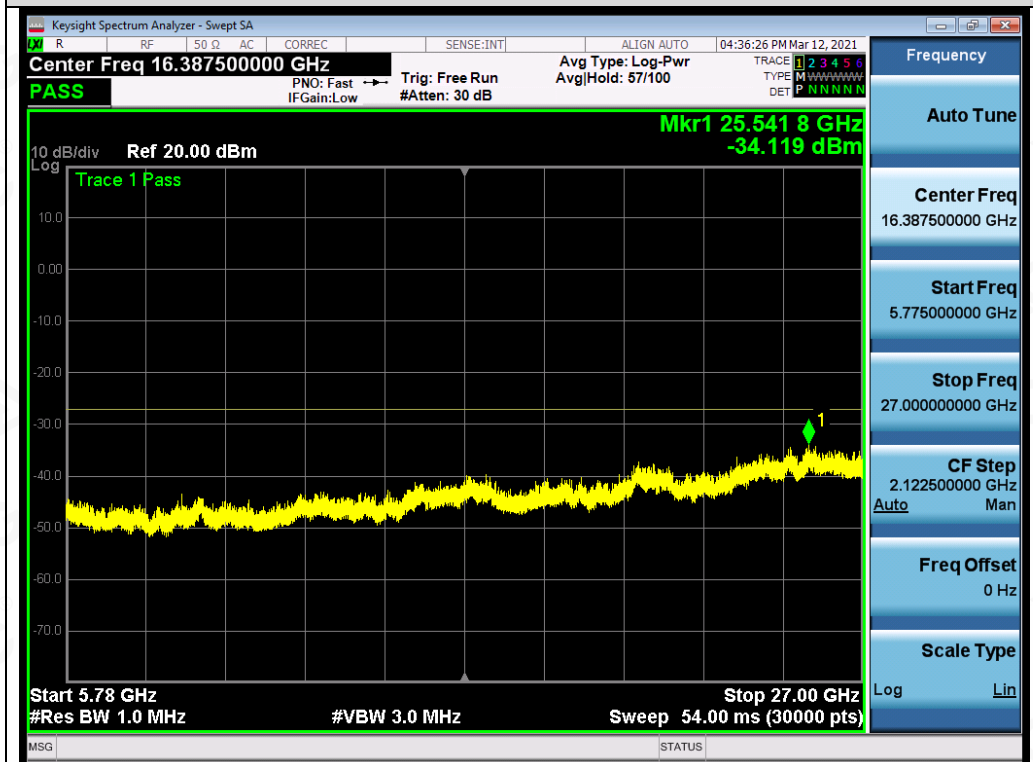
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Test_Graph_802.11ac80_ANT1_5530_MCS9_Frequency Band 3

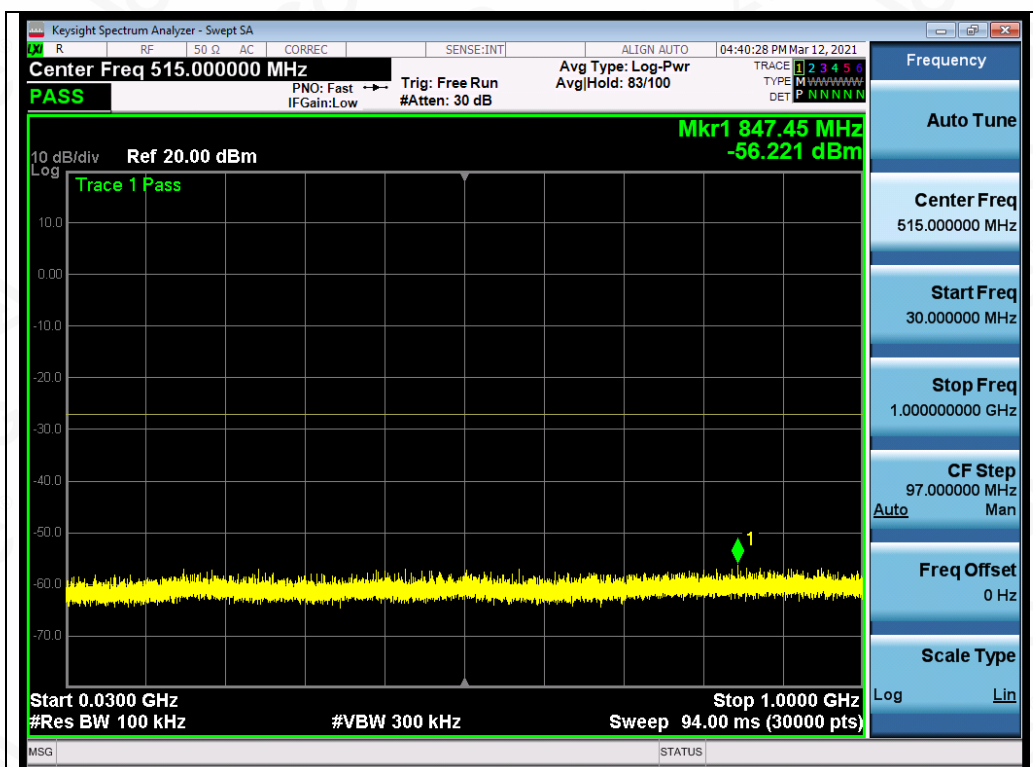


Test_Graph_802.11ac80_ANT1_5530_MCS9_Frequency Band 4

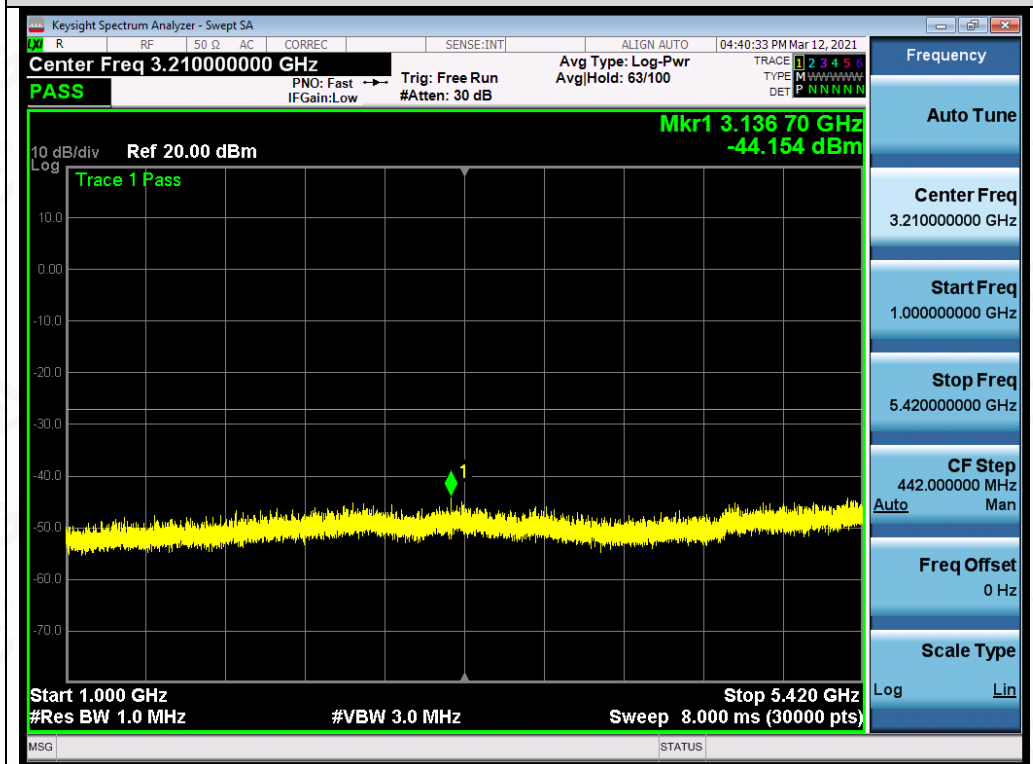
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Test_Graph_802.11ac80_ANT1_5610_MCS9_Frequency Band 1

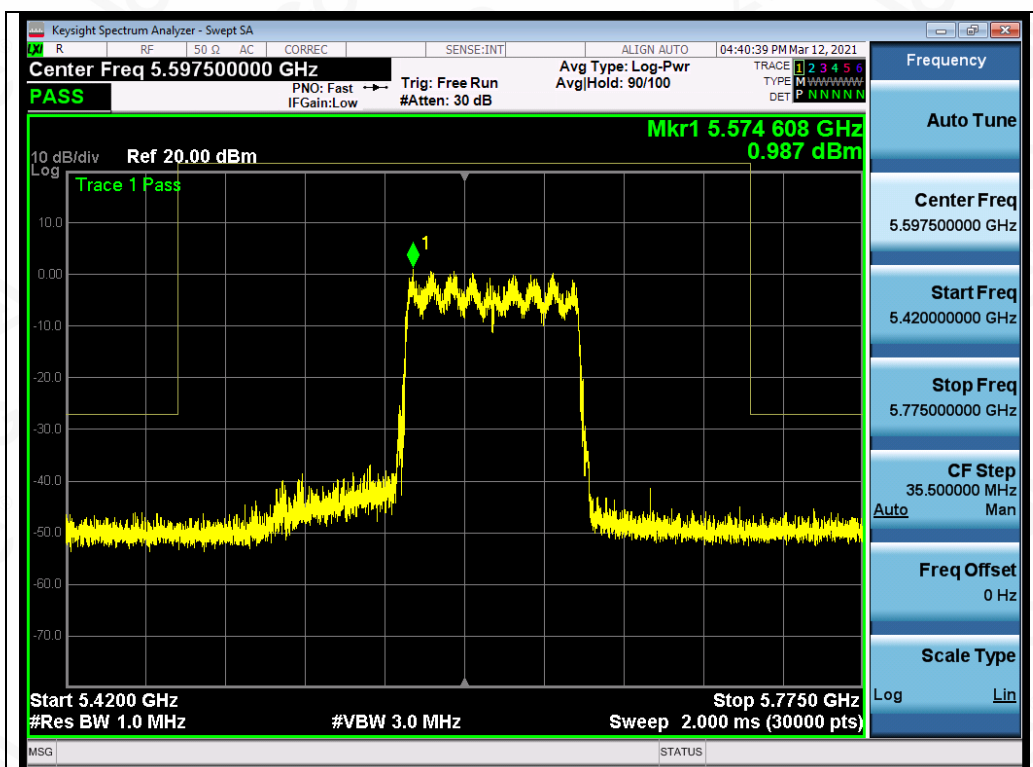


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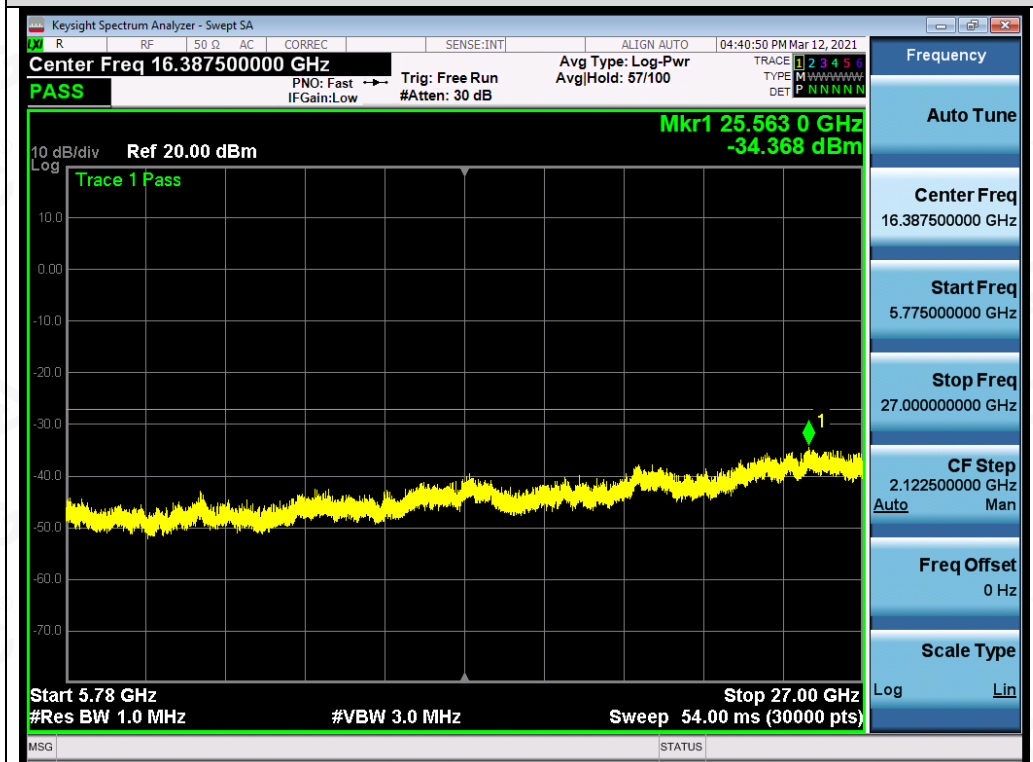
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Test_Graph_802.11ac80_ANT1_5610_MCS9_Frequency Band 3



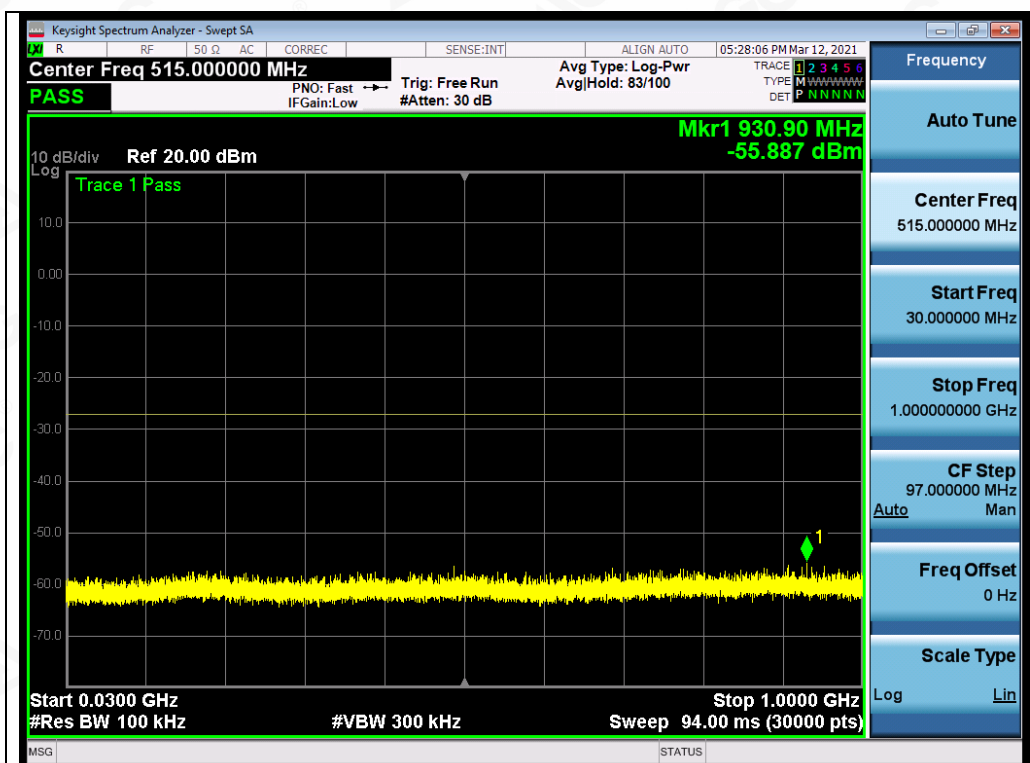
Test_Graph_802.11ac80_ANT1_5610_MCS9_Frequency Band 4

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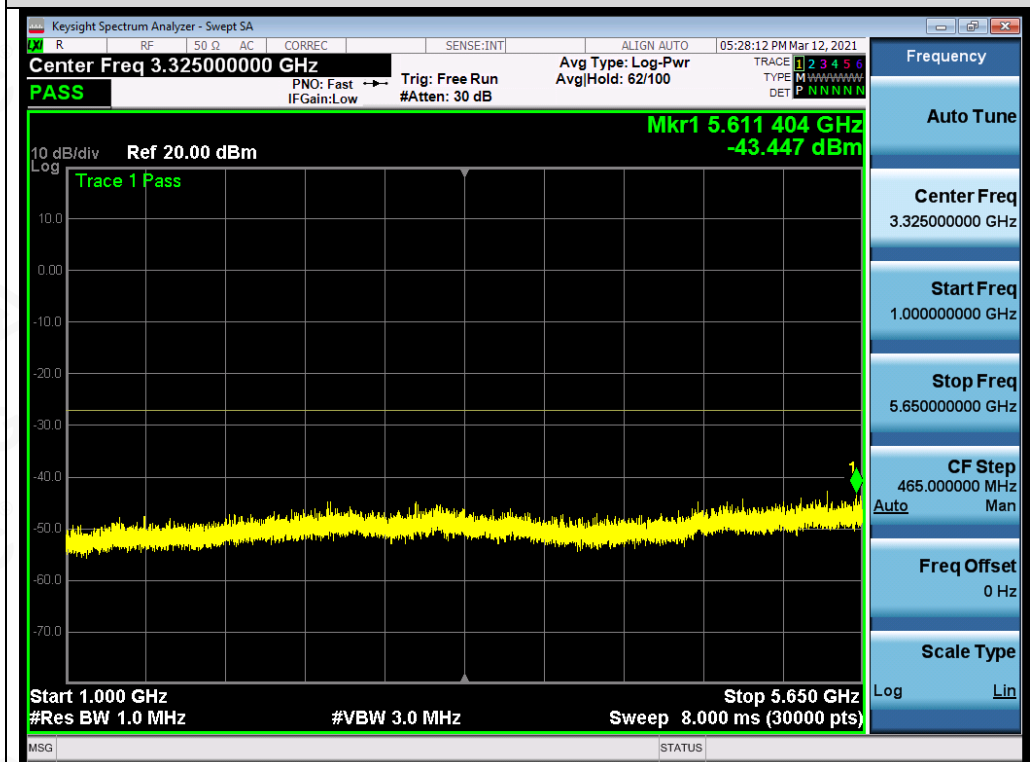
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Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band



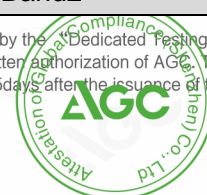
Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band1

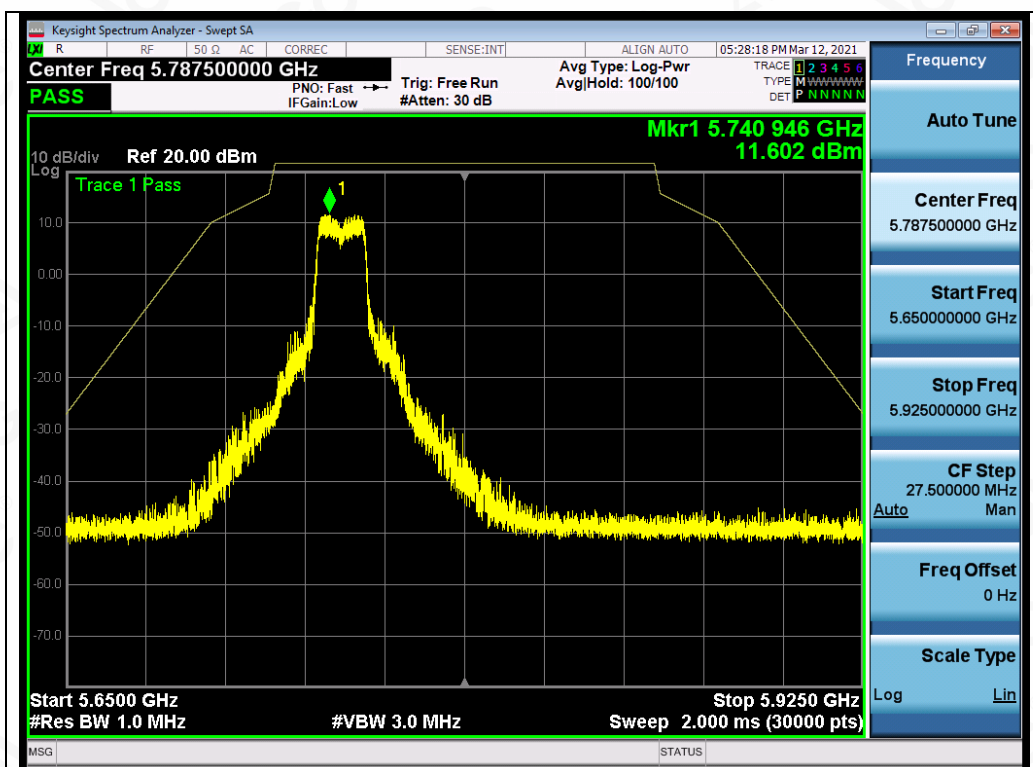


Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band2

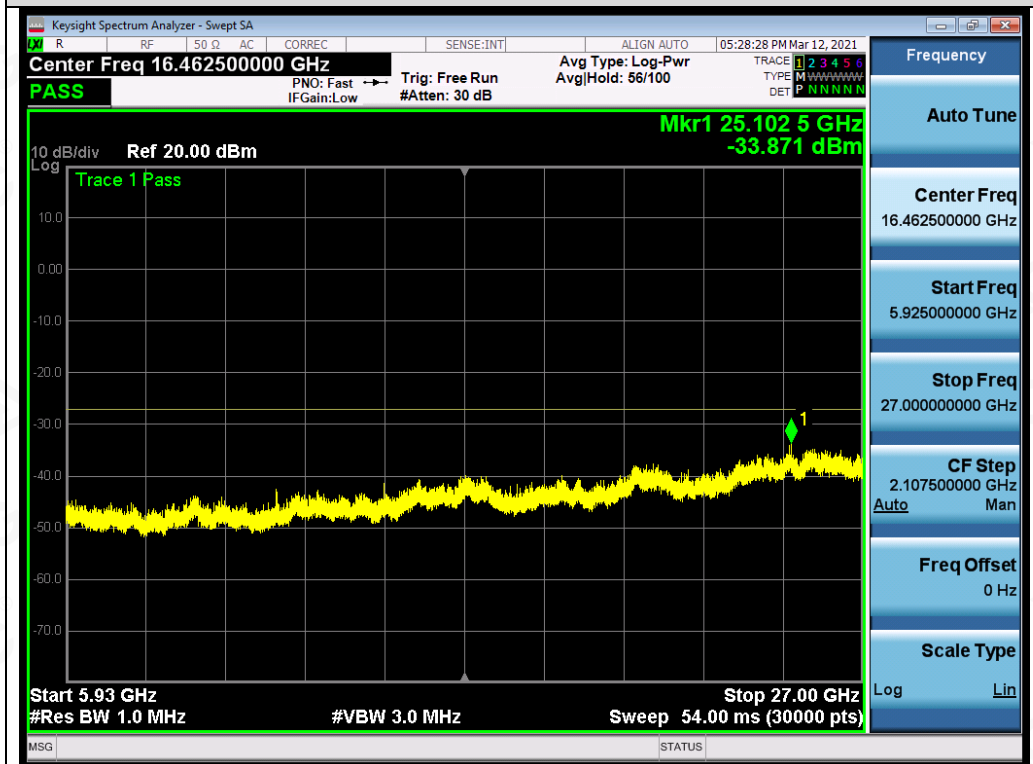
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Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band3

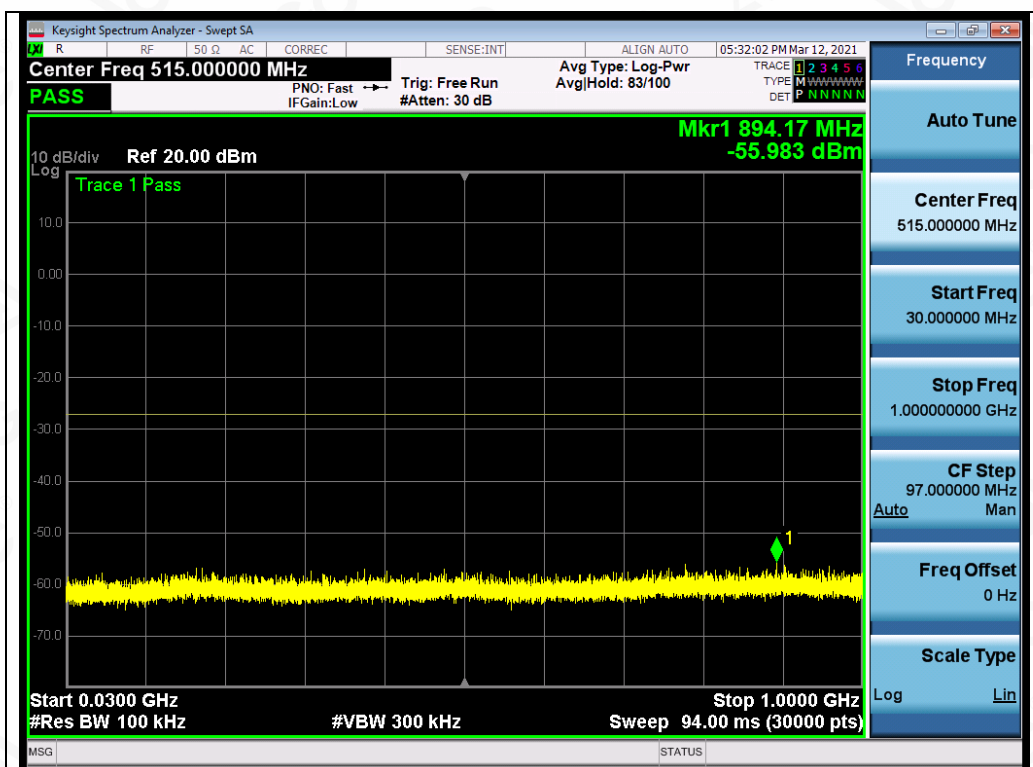


Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band4

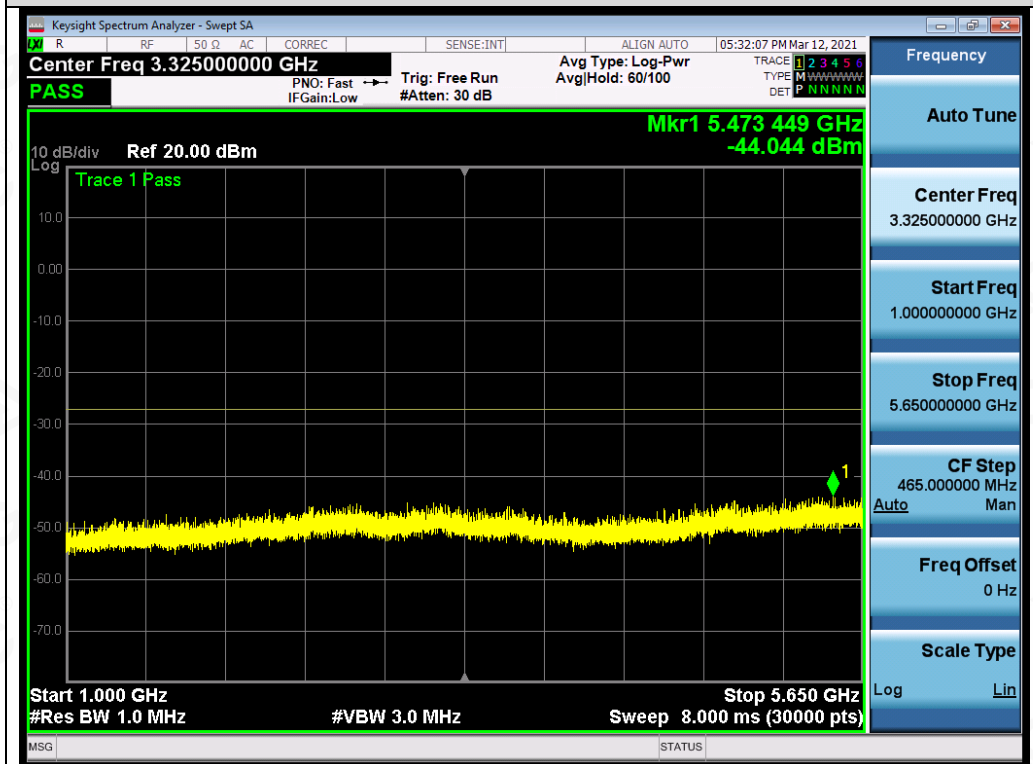
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Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band1

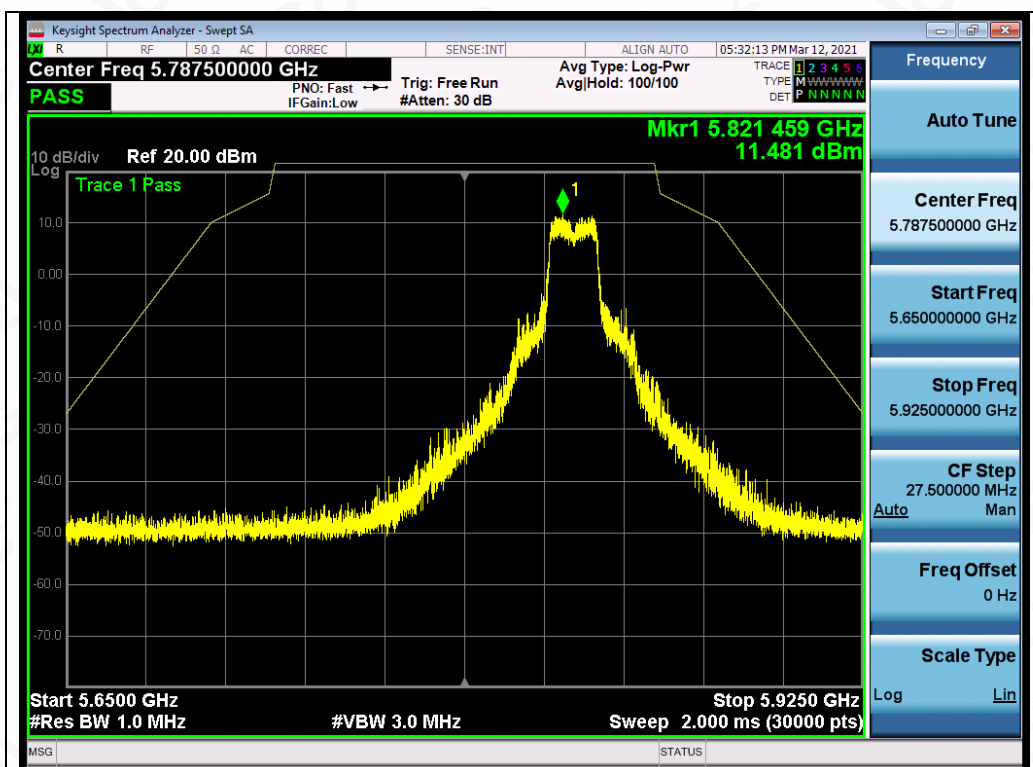


Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band2

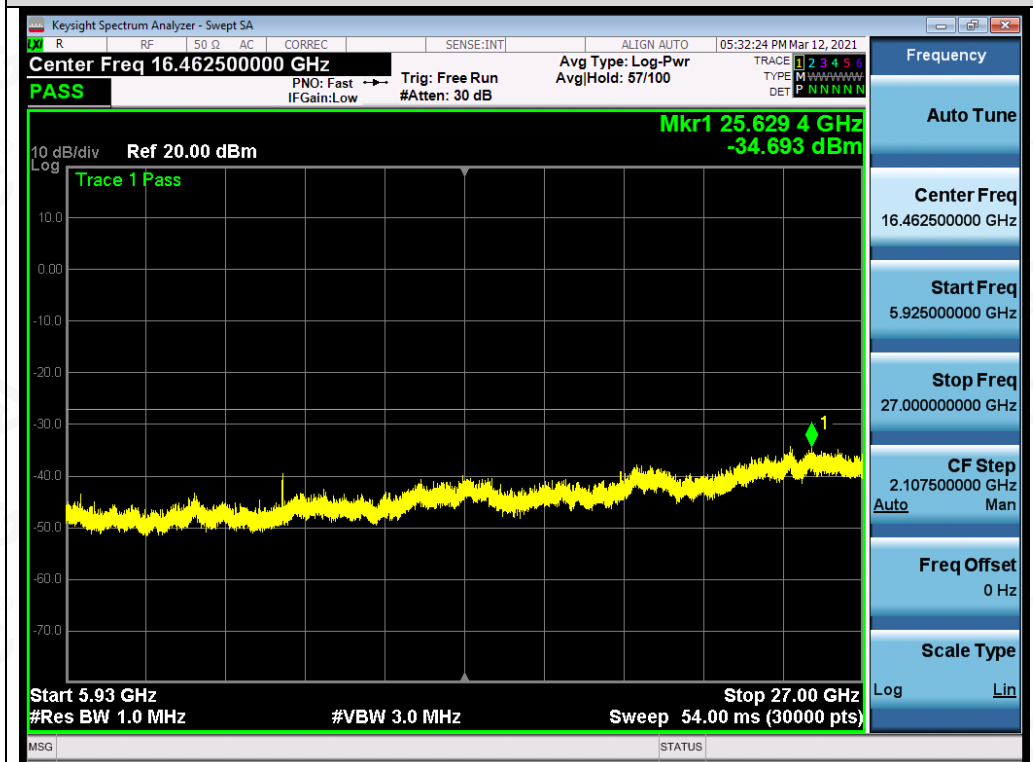
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Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band3

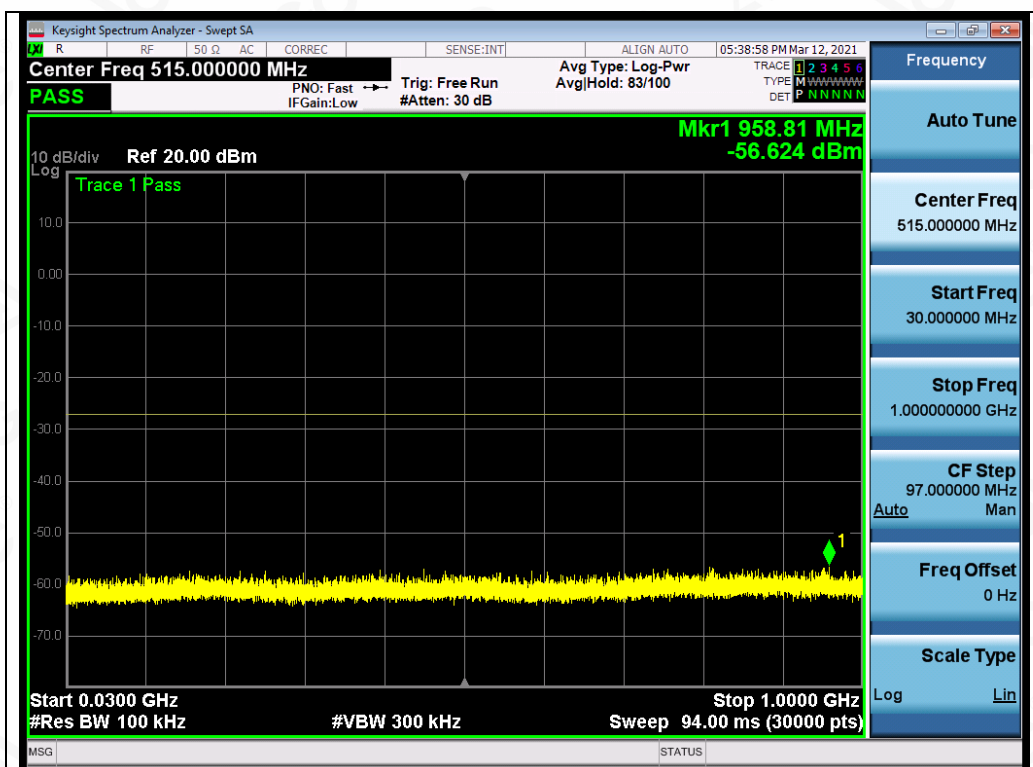


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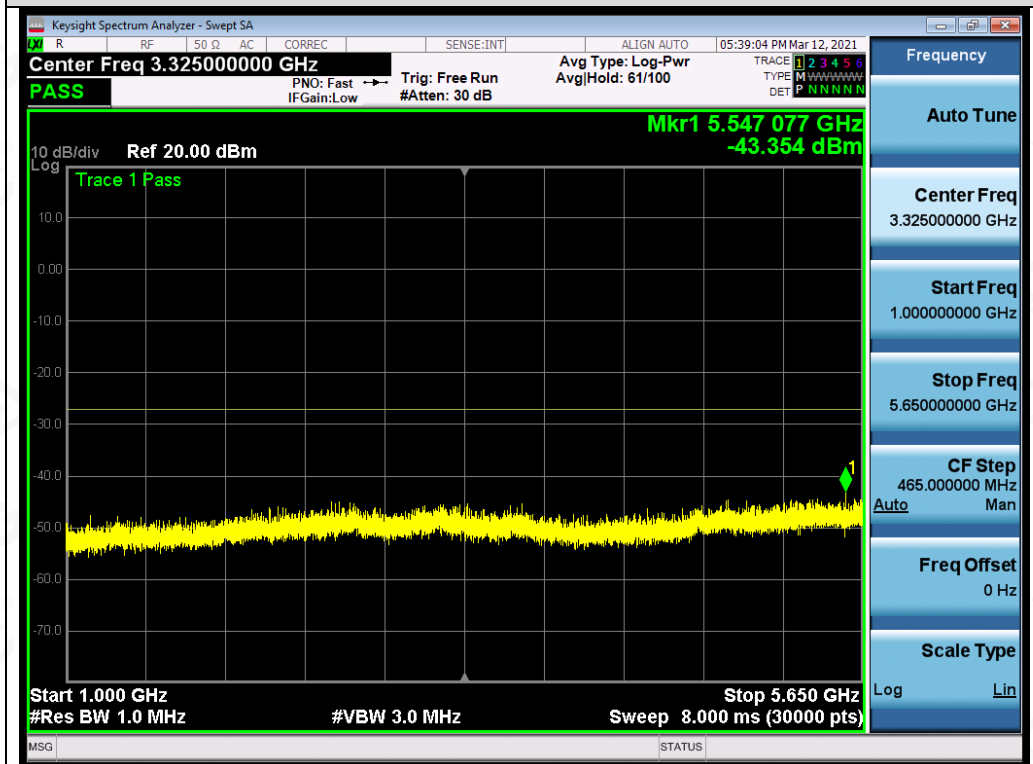
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Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band1

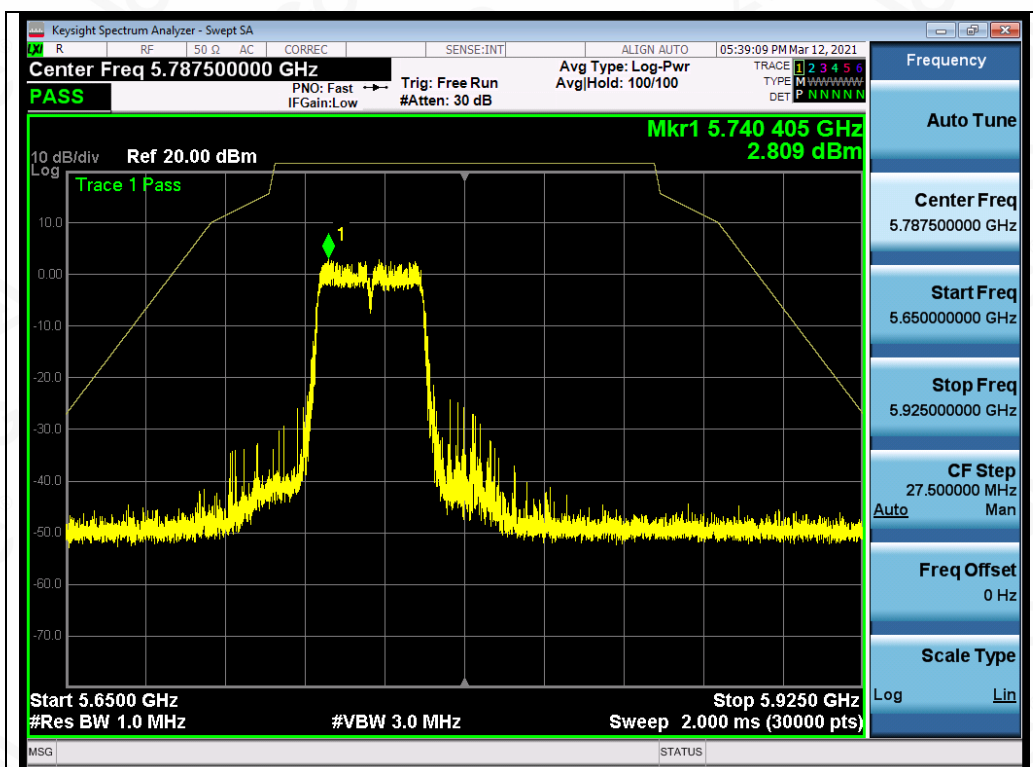


Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band2

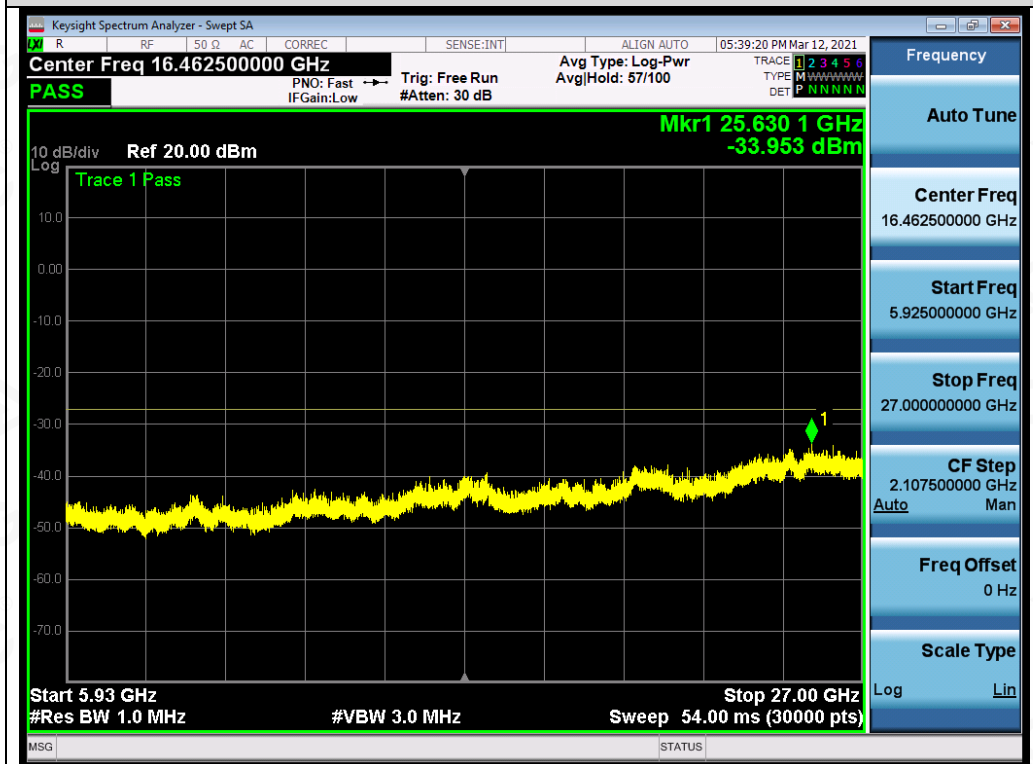
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Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band3

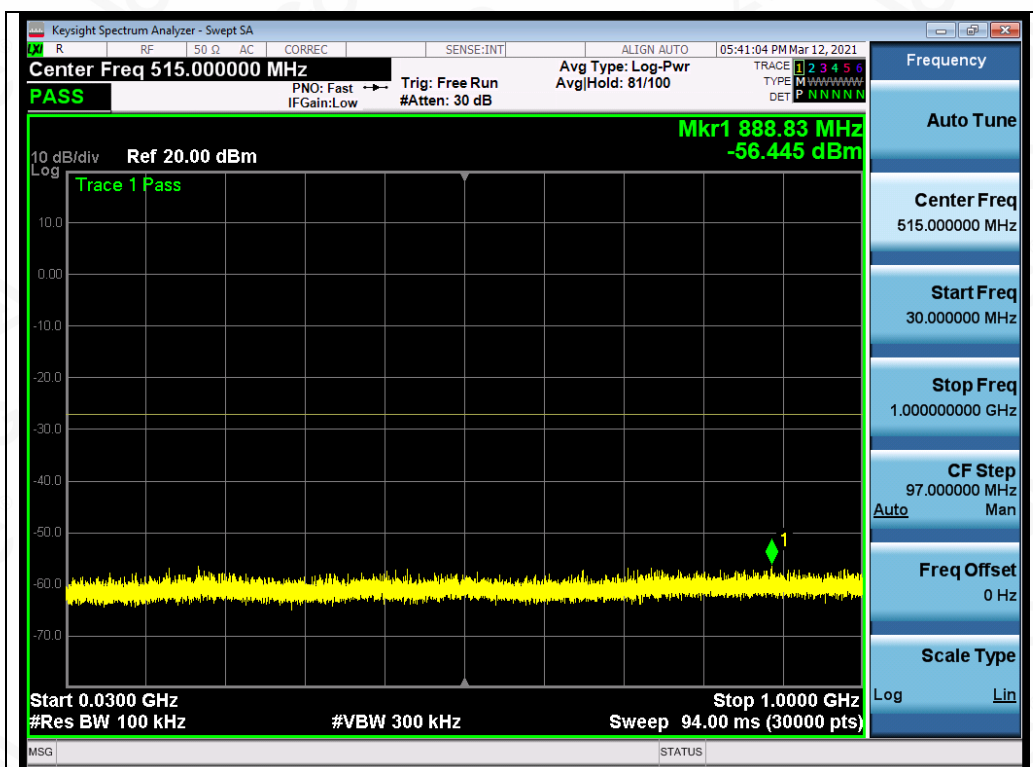


Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band4

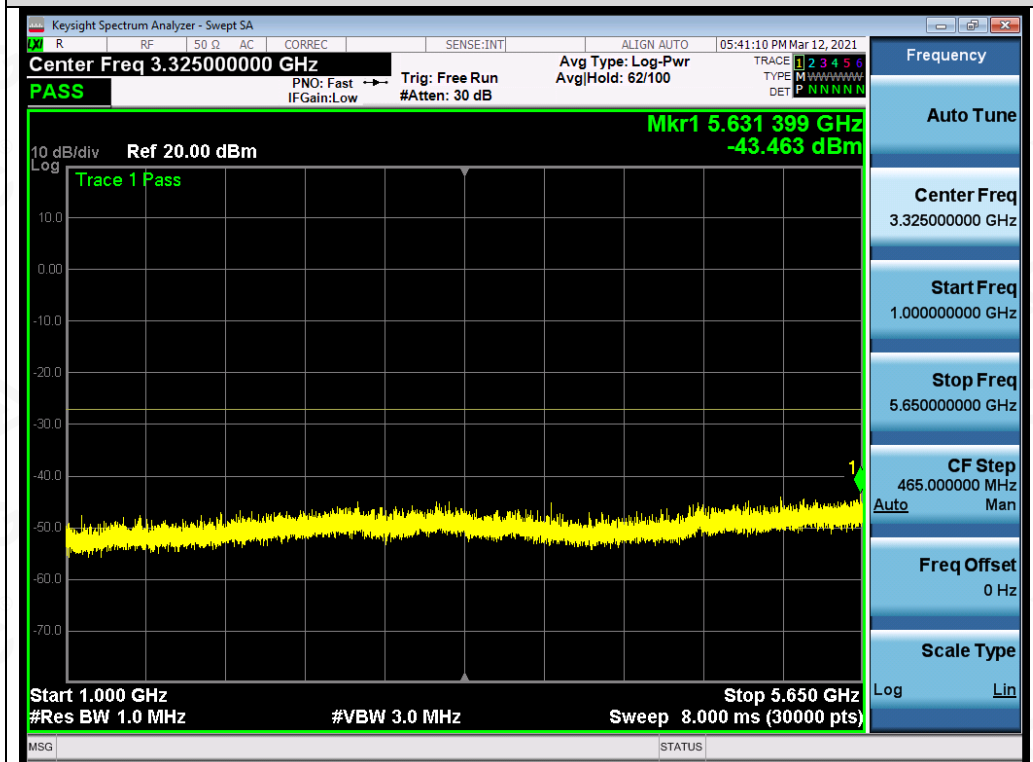
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Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band1

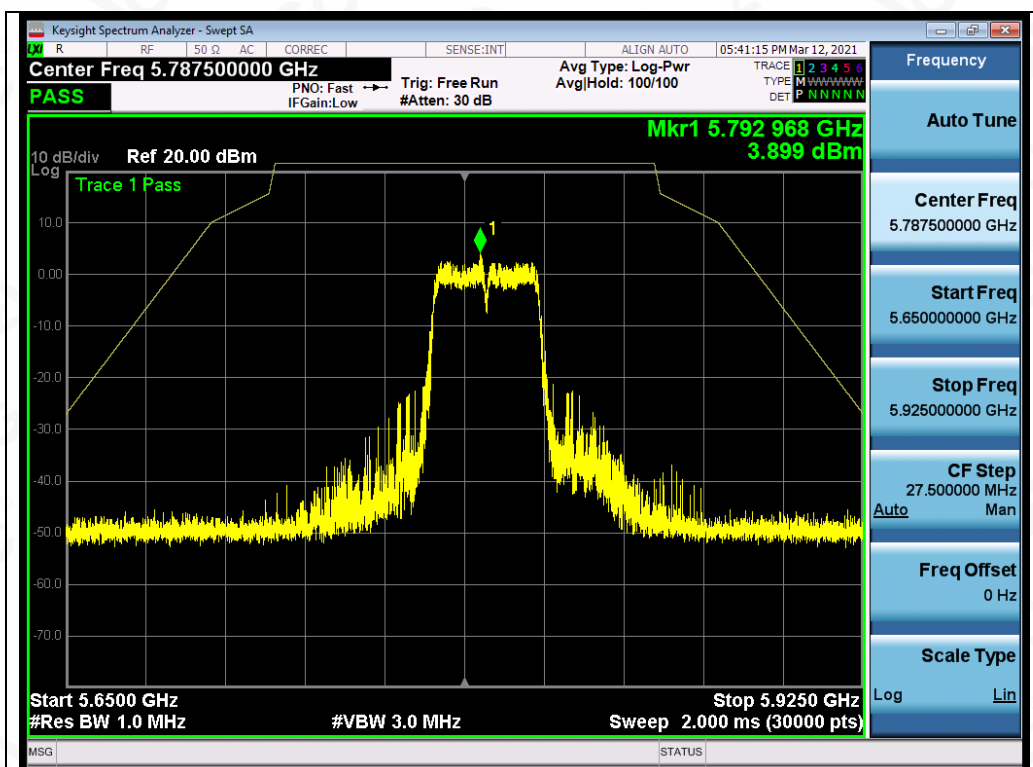


Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band2

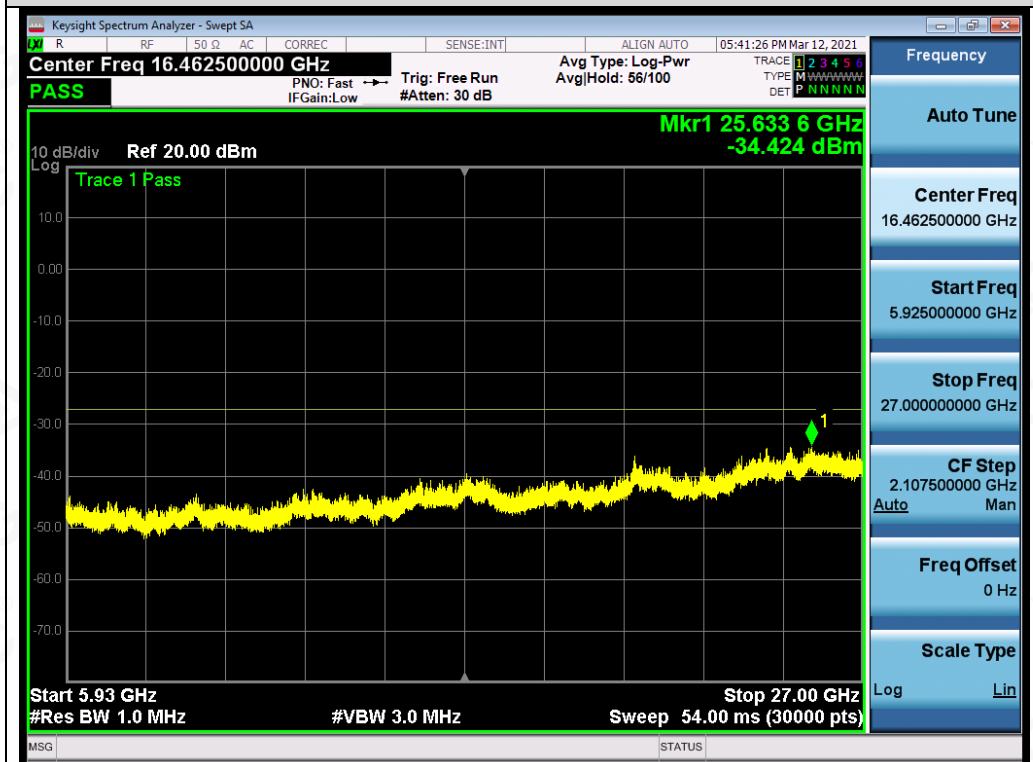
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Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band3

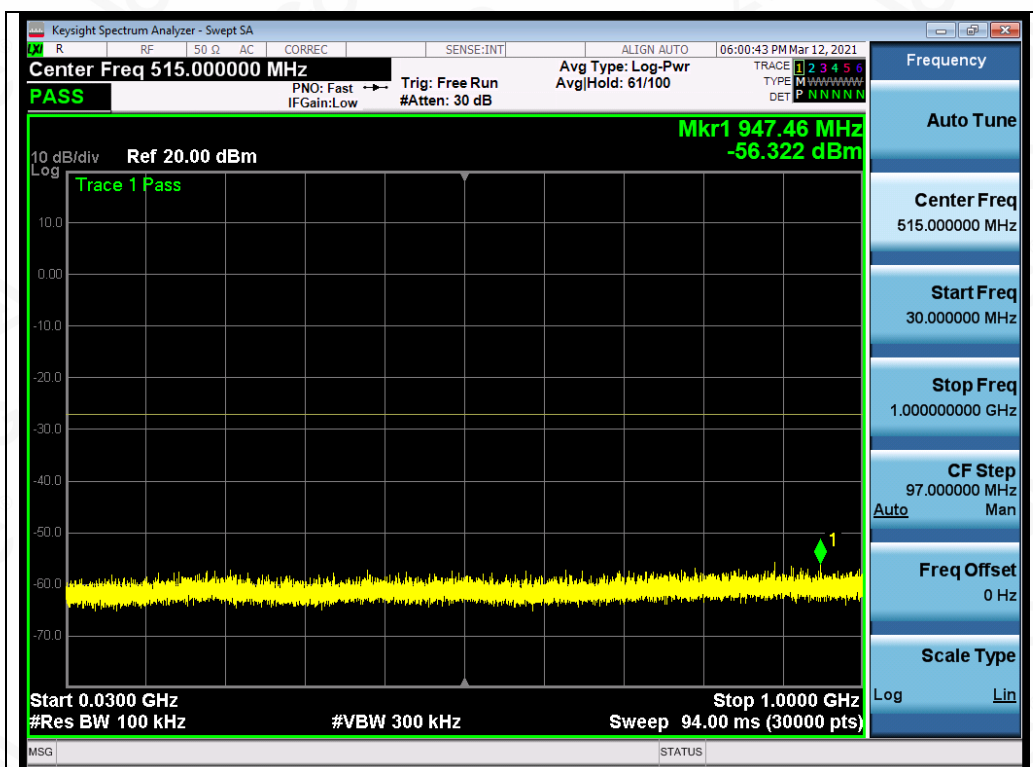


Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band4

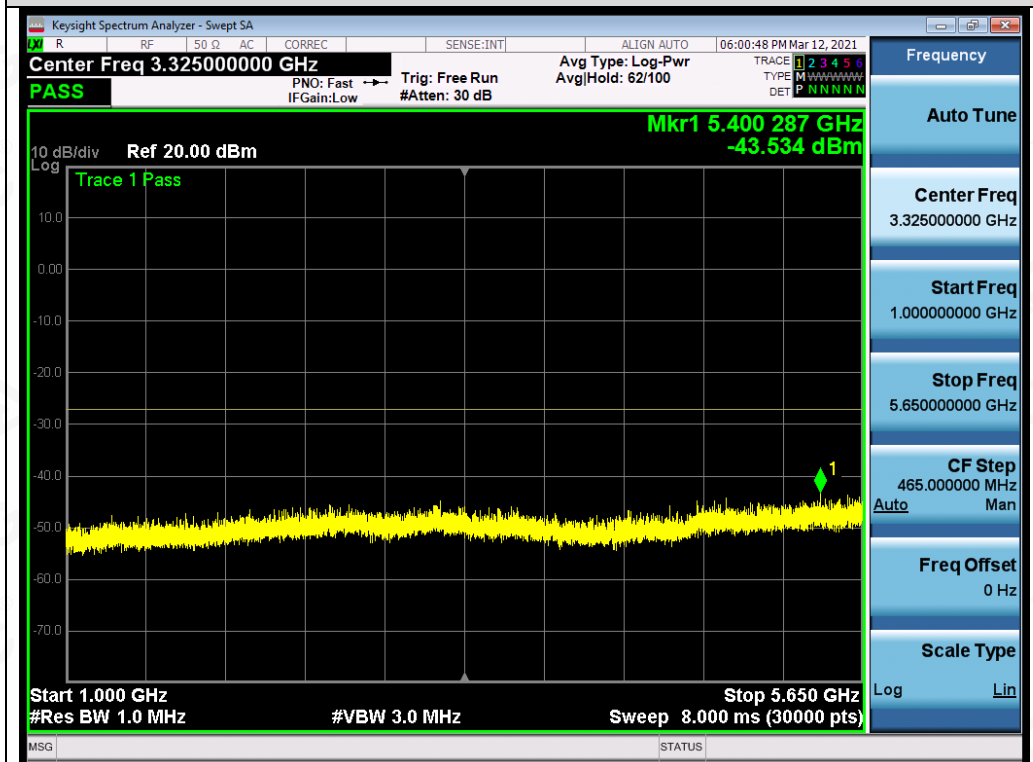
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Test_Graph_802.11ac80_ANT1_5775_MCS9_Frequency Band1

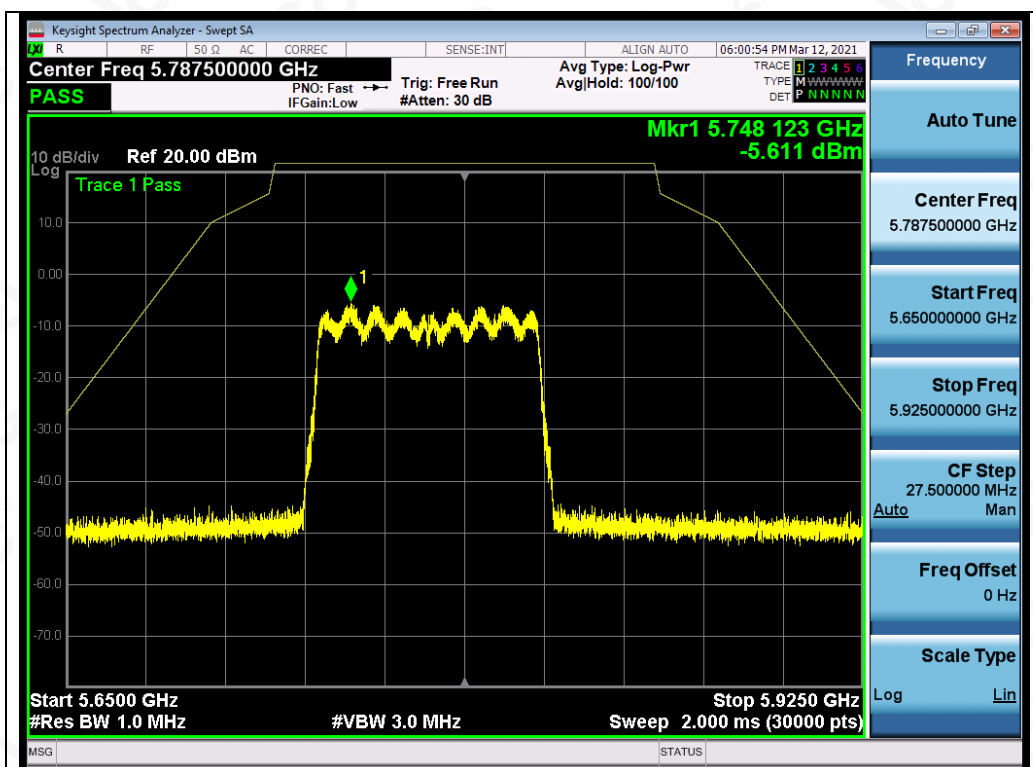


Test_Graph_802.11ac80_ANT1_5775_MCS9_Frequency Band2

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Test_Graph_802.11ac80_ANT1_5775_MCS9_Frequency Band3



Test_Graph_802.11ac80_ANT1_5775_MCS9_Frequency Band4

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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.

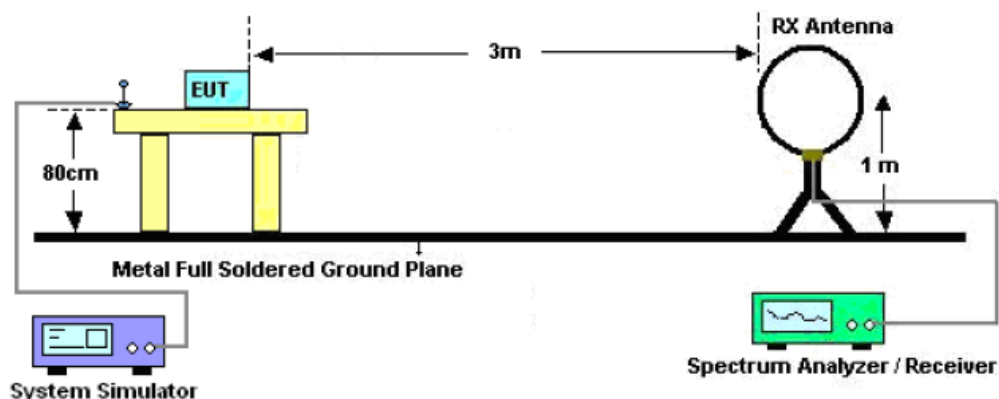
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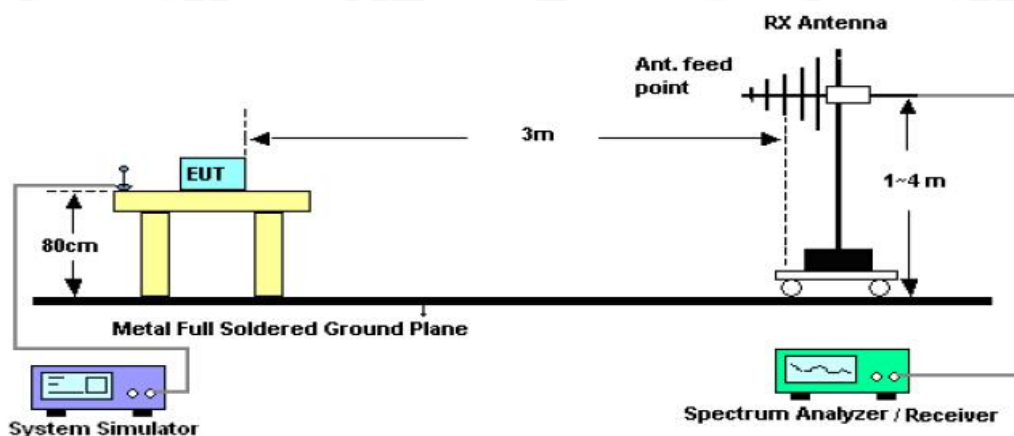


11.2. TEST SETUP

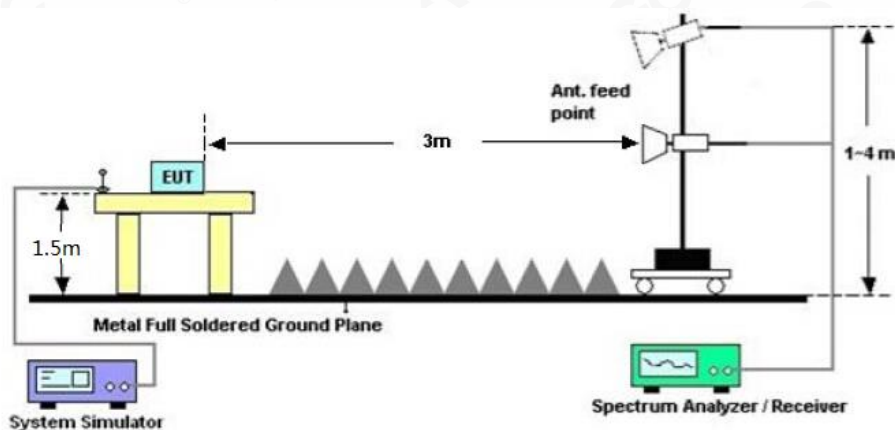
Radiated Emission Test-Setup Frequency Below 30MHz



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.

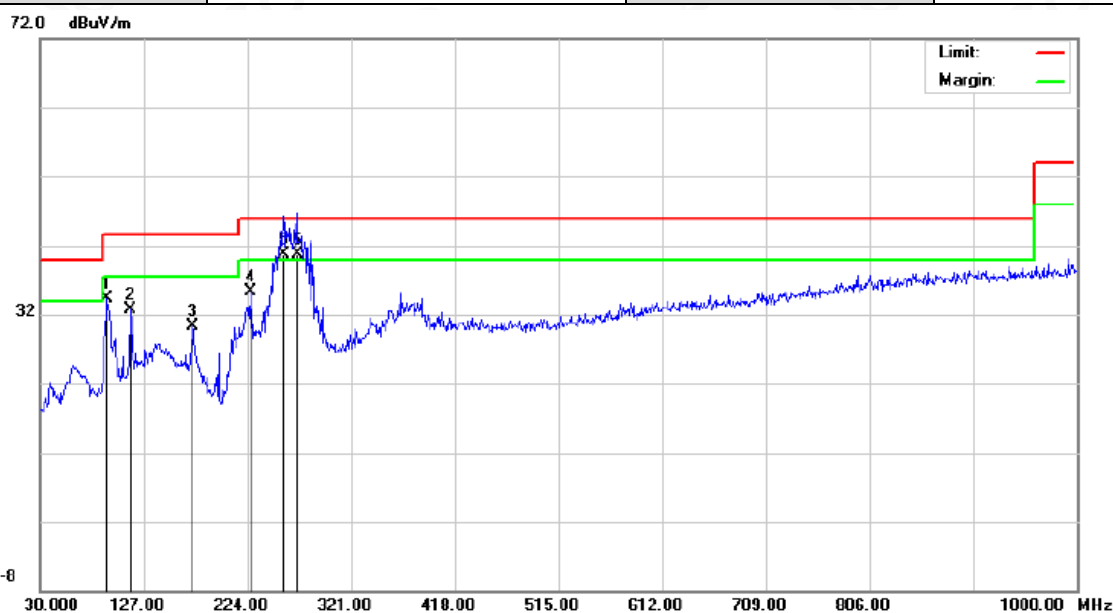
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Radiated emission from 30MHz to 1000MHz

EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		93.0500	19.08	15.29	34.37	43.50	-9.13	peak
2		114.3900	15.27	17.42	32.69	43.50	-10.81	peak
3		172.5900	12.51	17.89	30.40	43.50	-13.10	peak
4		226.9100	17.57	17.73	35.30	46.00	-10.70	peak
5	!	257.9500	22.36	18.35	40.71	46.00	-5.29	QP
6	*	270.5600	21.58	19.17	40.75	46.00	-5.25	QP

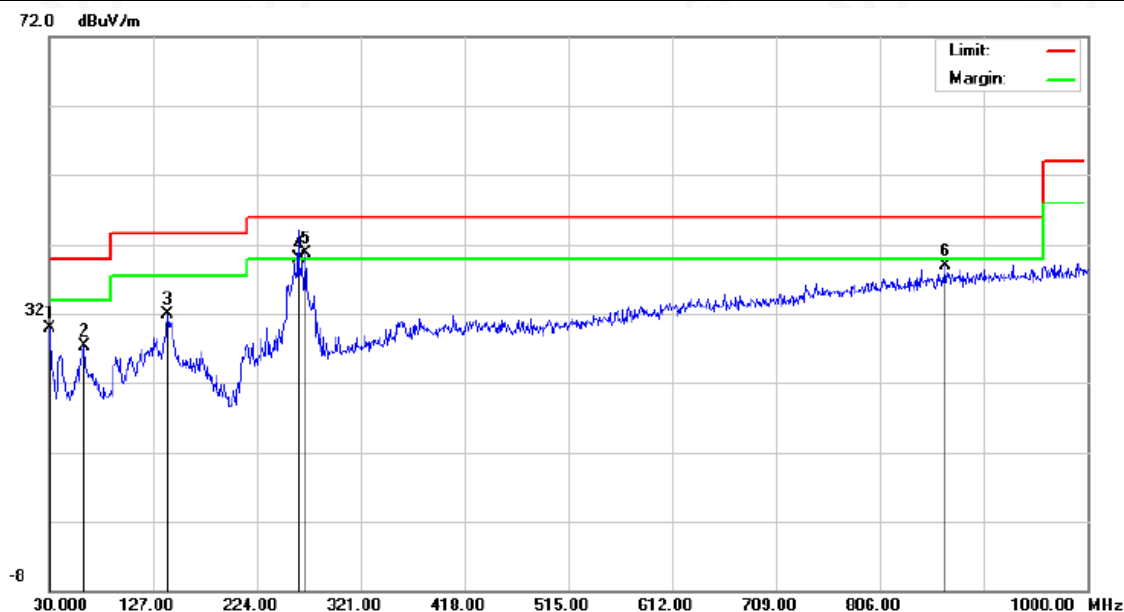
RESULT: PASS

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EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		30.0000	17.66	12.17	29.83	40.00	-10.17	peak
2		62.9800	9.67	17.64	27.31	40.00	-12.69	peak
3		140.5800	10.75	21.17	31.92	43.50	-11.58	peak
4		262.8000	21.34	18.54	39.88	46.00	-6.12	QP
5	*	269.5900	21.60	19.09	40.69	46.00	-5.31	peak
6		867.1100	7.66	31.28	38.94	46.00	-7.06	peak

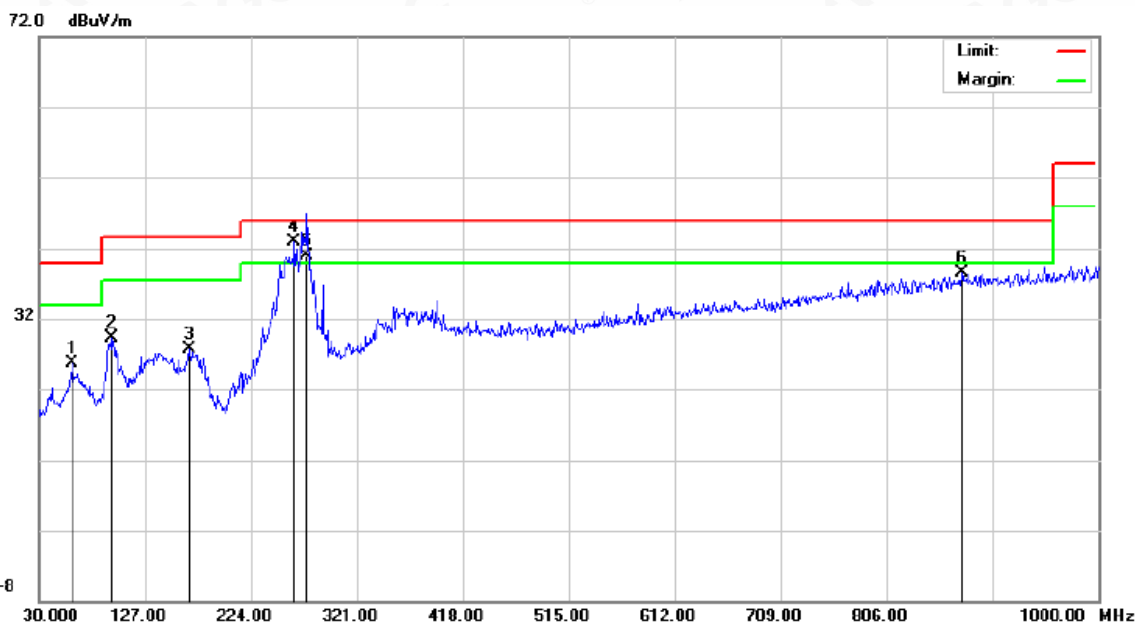
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Radiated emission from 30MHz to 1000MHz

EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		60.0700	7.77	17.86	25.63	40.00	-14.37	peak
2		96.9300	13.55	15.69	29.24	43.50	-14.26	peak
3		167.7400	9.34	18.39	27.73	43.50	-15.77	peak
4	*	263.7699	24.24	18.62	42.86	46.00	-3.14	peak
5	!	275.4100	21.37	19.57	40.94	46.00	-5.06	QP
6		874.8700	7.03	31.38	38.41	46.00	-7.59	peak

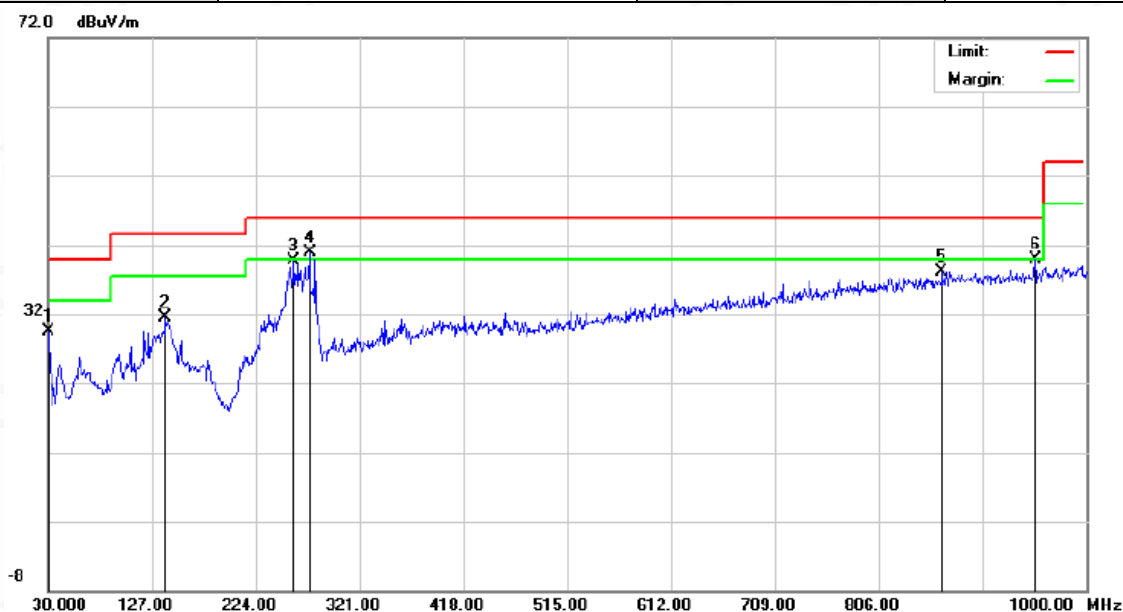
RESULT: PASS

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EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		30.0000	17.41	12.17	29.58	40.00	-10.42	peak
2		139.6100	10.42	21.17	31.59	43.50	-11.91	peak
3		259.8900	21.35	18.31	39.66	46.00	-6.34	peak
4	*	274.4400	21.34	19.49	40.83	46.00	-5.17	peak
5		865.1700	6.86	31.25	38.11	46.00	-7.89	peak
6		952.4700	7.79	32.15	39.94	46.00	-6.06	peak

RESULT: PASS

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Radiated emission from 30MHz to 1000MHz

EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		94.0199	12.18	15.39	27.57	43.50	-15.93	peak
2		139.6100	7.01	21.17	28.18	43.50	-15.32	peak
3	*	268.6200	21.47	19.01	40.48	46.00	-5.52	QP
4		379.2000	9.60	24.25	33.85	46.00	-12.15	peak
5		811.8200	7.86	30.56	38.42	46.00	-7.58	peak
6		917.5500	6.70	31.85	38.55	46.00	-7.45	peak

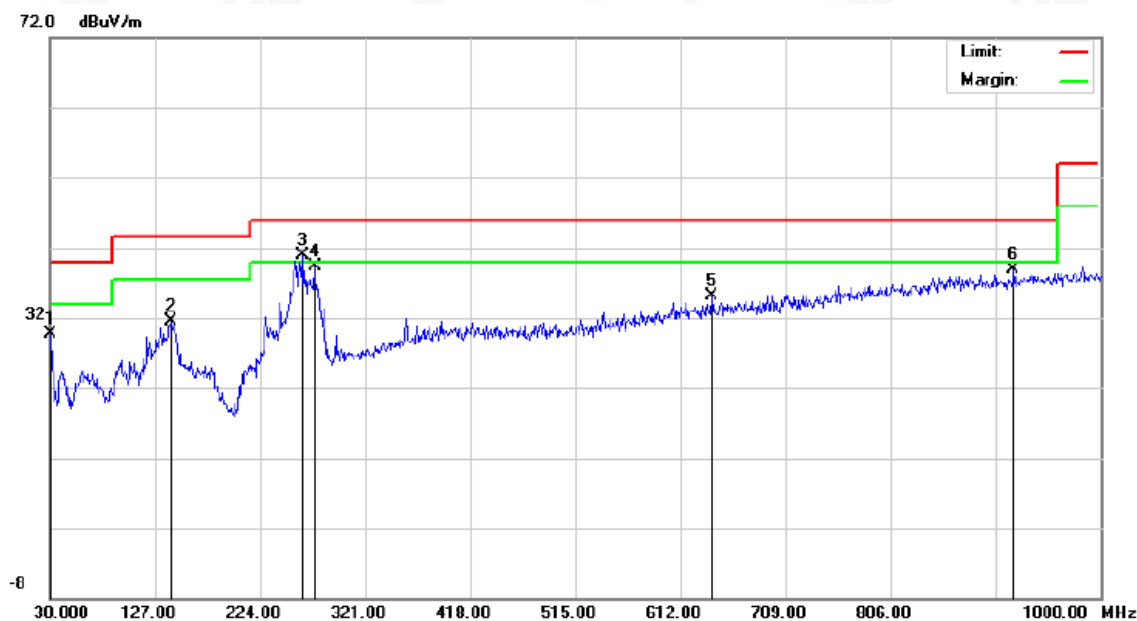
RESULT: PASS

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EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		30.0000	17.55	12.17	29.72	40.00	-10.28	peak
2		141.5500	10.36	21.07	31.43	43.50	-12.07	peak
3	*	263.7700	22.22	18.62	40.84	46.00	-5.16	peak
4		274.4400	19.91	19.49	39.40	46.00	-6.60	peak
5		641.1000	7.58	27.44	35.02	46.00	-10.98	peak
6		919.4900	6.99	31.87	38.86	46.00	-7.14	peak

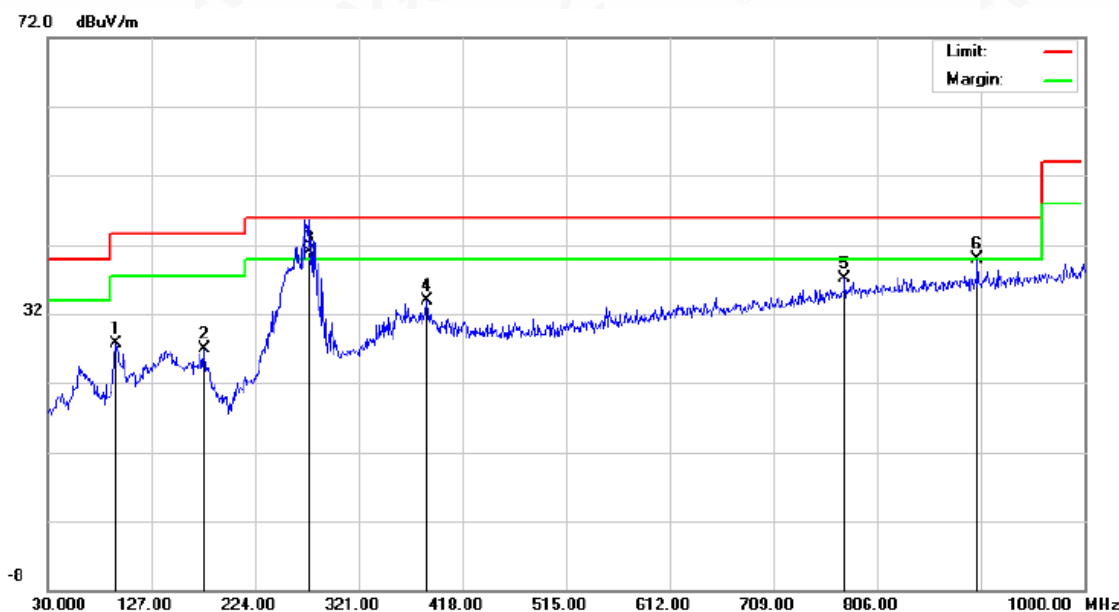
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Radiated emission from 30MHz to 1000MHz

EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		94.0199	12.27	15.39	27.66	43.50	-15.84	peak
2		176.4700	9.36	17.49	26.85	43.50	-16.65	peak
3	*	275.4100	21.32	19.57	40.89	46.00	-5.11	QP
4		385.0200	9.38	24.45	33.83	46.00	-12.17	peak
5		775.9300	7.16	29.87	37.03	46.00	-8.97	peak
6		900.0900	8.21	31.70	39.91	46.00	-6.09	peak

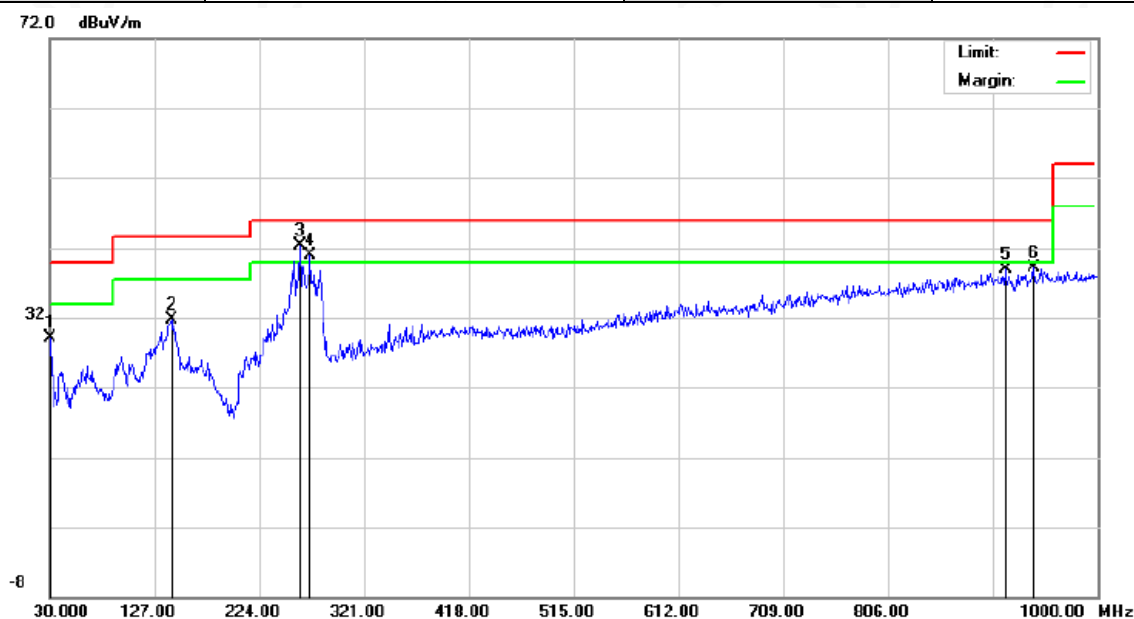
RESULT: PASS

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EUT	Mini PC	Model Name	G34
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 dBuV/m	Over dB	Detector
1		30.0000	16.98	12.17	29.15	40.00	-10.85	peak
2		142.5200	10.71	20.97	31.68	43.50	-11.82	peak
3	*	261.8299	23.80	18.46	42.26	46.00	-3.74	peak
4	!	271.5300	21.59	19.25	40.84	46.00	-5.16	peak
5		914.6400	7.02	31.83	38.85	46.00	-7.15	peak
6		940.8300	7.10	32.05	39.15	46.00	-6.85	peak

Note: All test channels and antennas had been tested. The 802.11a20 of antenna 1 at low channel is the worst case and recorded in the test report.

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

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

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Radiated emission above 1GHz

EUT	Mini PC	Model Name	G34
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
10360.000	48.69	9.14	57.83	68.20	-10.37	peak
15540.000	42.33	10.22	52.55	74.00	-21.45	peak
15540.000	31.52	10.22	41.74	54.00	-12.26	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
10360.000	47.56	9.14	56.70	68.20	-11.50	peak
15540.000	40.88	10.22	51.10	74.00	-22.90	peak
15540.000	32.28	10.22	42.50	54.00	-11.50	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
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	47.69	9.14	56.83	68.20	-11.37	peak
15600.063	42.38	10.22	52.60	74.00	-21.40	peak
15600.063	32.42	10.22	42.64	54.00	-11.36	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	46.58	9.14	55.72	68.20	-12.48	peak
15600.063	40.33	10.22	50.55	74.00	-23.45	peak
15600.063	31.19	10.22	41.41	54.00	-12.59	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
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	46.37	9.18	55.55	68.20	-12.65	peak
15720.063	41.99	10.38	52.37	74.00	-21.63	peak
15720.063	31.79	10.38	42.17	54.00	-11.83	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	47.15	9.18	56.33	68.20	-11.87	peak
15720.063	42.11	10.38	52.49	74.00	-21.51	peak
15720.063	32.28	10.38	42.66	54.00	-11.34	AVG

Remark:

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

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Radiated emission above 1GHz

EUT	Mini PC	Model Name	G34
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
10520.000	47.32	9.18	56.50	68.20	-11.70	peak
15780.000	41.78	10.38	52.16	74.00	-21.84	peak
15780.000	32.45	10.38	42.83	54.00	-11.17	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
10520.000	47.65	9.18	56.83	68.20	-11.37	peak
15780.000	41.25	10.38	51.63	74.00	-22.37	peak
15780.000	31.89	10.38	42.27	54.00	-11.73	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
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
10600.000	50.63	9.20	59.83	74.00	-14.17	peak
10600.000	36.12	9.20	45.32	54.00	-8.68	AVG
15900.000	48.69	10.40	59.09	74.00	-14.91	peak
15900.000	37.05	10.40	47.45	54.00	-6.55	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
10600.000	52.15	9.20	61.35	74.00	-12.65	peak
10600.000	34.59	9.20	43.79	54.00	-10.21	AVG
15900.000	48.78	10.40	59.18	74.00	-14.82	peak
15900.000	35.02	10.40	45.42	54.00	-8.58	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
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
10640.000	51.33	9.27	60.60	74.00	-13.40	peak
10640.000	33.12	9.27	42.39	54.00	-11.61	AVG
15960.000	49.37	10.42	59.79	74.00	-14.21	peak
15960.000	33.15	10.42	43.57	54.00	-10.43	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
10640.000	50.53	9.27	59.80	74.00	-14.20	peak
10640.000	33.26	9.27	42.53	54.00	-11.47	AVG
15960.000	50.22	10.42	60.64	74.00	-13.36	peak
15960.000	31.37	10.42	41.79	54.00	-12.21	AVG

Remark:

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Radiated emission above 1GHz

EUT	Mini PC	Model Name	G34
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
11000.000	50.91	9.30	60.21	74.00	-13.79	peak
11000.000	36.12	9.30	45.42	54.00	-8.58	AVG
16500.000	50.22	10.43	60.65	74.00	-13.35	peak
16500.000	35.85	10.43	46.28	54.00	-7.72	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
11000.000	51.37	9.30	60.67	74.00	-13.33	peak
11000.000	35.44	9.30	44.74	54.00	-9.26	AVG
16500.000	50.97	10.43	61.40	74.00	-12.60	peak
16500.000	36.00	10.43	46.43	54.00	-7.57	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5580MHz	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
11160.000	52.33	9.31	61.64	74.00	-12.36	peak
11160.000	33.96	9.31	43.27	54.00	-10.73	AVG
16740.000	51.85	10.44	62.29	74.00	-11.71	peak
16740.000	34.05	10.44	44.49	54.00	-9.51	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
11160.000	51.74	9.31	61.05	74.00	-12.95	peak
11160.000	35.51	9.31	44.82	54.00	-9.18	AVG
16740.000	51.34	10.44	61.78	74.00	-12.22	peak
16740.000	34.17	10.44	44.61	54.00	-9.39	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
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
11400.000	51.98	9.32	61.30	74.00	-12.70	peak
11400.000	33.56	9.32	42.88	54.00	-11.12	AVG
17100.000	50.79	10.46	61.25	74.00	-12.75	peak
17100.000	31.58	10.46	42.04	54.00	-11.96	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
11400.000	50.26	9.32	59.58	74.00	-14.42	peak
11400.000	34.12	9.32	43.44	54.00	-10.56	AVG
17100.000	51.37	10.46	61.83	74.00	-12.17	peak
17100.000	35.15	10.46	45.61	54.00	-8.39	AVG

Remark:

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

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EUT	Mini PC	Model Name	G34
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
11490.420	46.28	9.30	55.58	74.00	-18.42	peak
11490.042	30.52	9.30	39.82	54.00	-14.18	AVG
17235.053	40.28	10.43	50.71	68.20	-17.49	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
11490.420	45.33	9.30	54.63	74.00	-19.37	peak
11490.042	33.17	9.30	42.47	54.00	-11.53	AVG
17235.053	41.34	10.43	51.77	68.20	-16.43	peak

Remark:

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

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EUT	Mini PC	Model Name	G34
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	46.93	9.42	56.35	74.00	-17.65	peak
11570.042	33.74	9.42	43.16	54.00	-10.84	AVG
17355.063	40.38	10.51	50.89	68.20	-17.31	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	48.21	9.42	57.63	74.00	-16.37	peak
11570.042	31.33	9.42	40.75	54.00	-13.25	AVG
17355.063	41.89	10.51	52.40	68.20	-15.80	peak

Remark:

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

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EUT	Mini PC	Model Name	G34
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	47.85	9.62	57.47	74.00	-16.53	peak
11650.042	33.12	9.62	42.74	54.00	-11.26	AVG
17475.063	41.19	10.75	51.94	68.20	-16.26	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	46.52	9.62	56.14	74.00	-17.86	peak
11650.042	30.48	9.62	40.10	54.00	-13.90	AVG
17475.063	42.11	10.75	52.86	68.20	-15.34	peak

Remark:

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

Note:

All test channels had been tested. The 802.11a20 of antenna 1 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= Level-Limit.

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

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