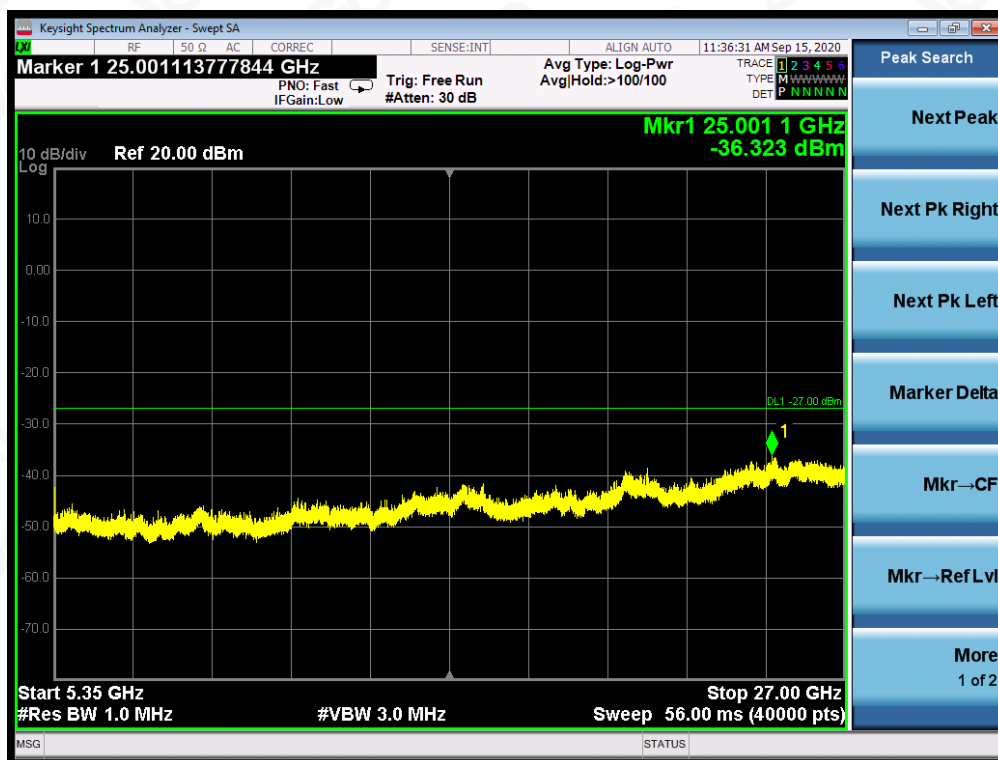
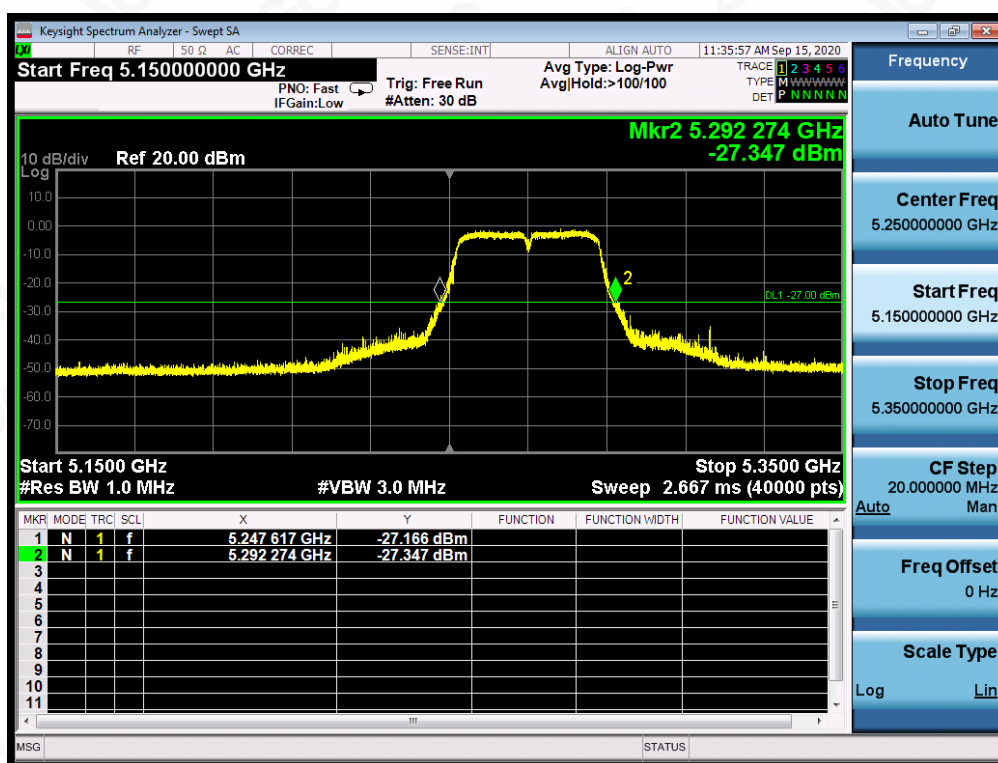
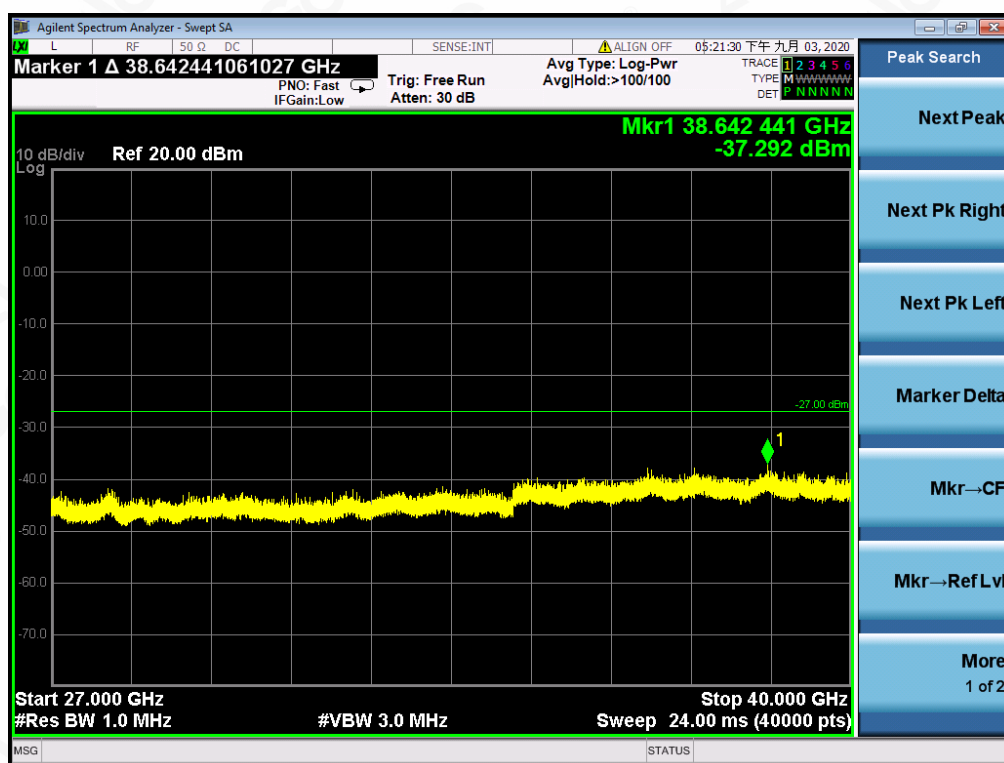




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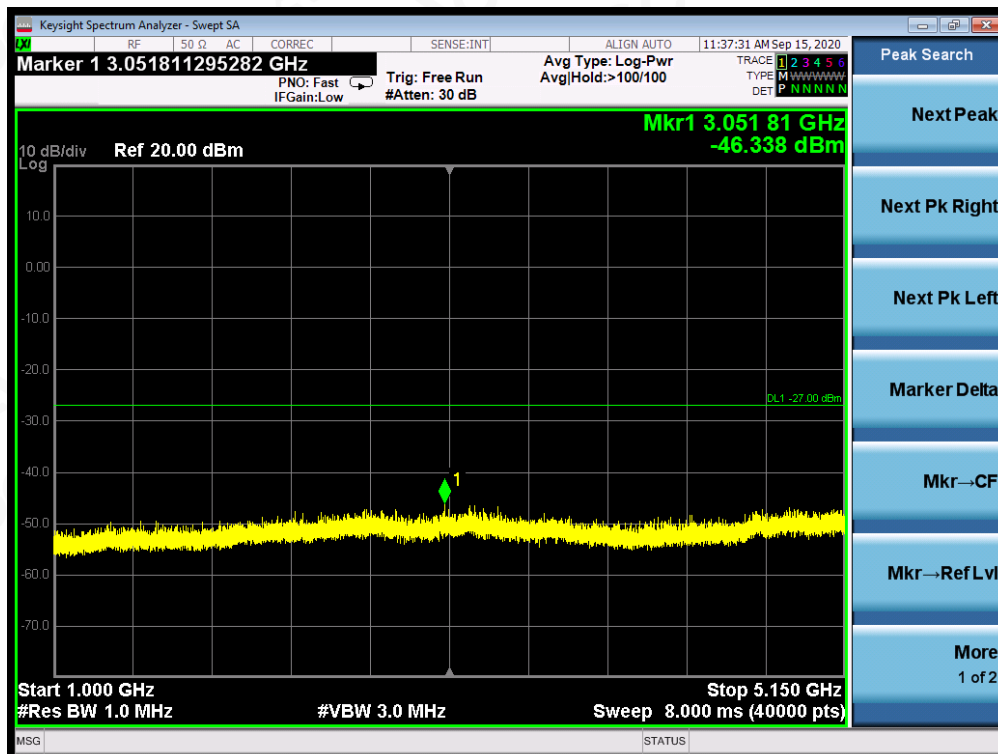
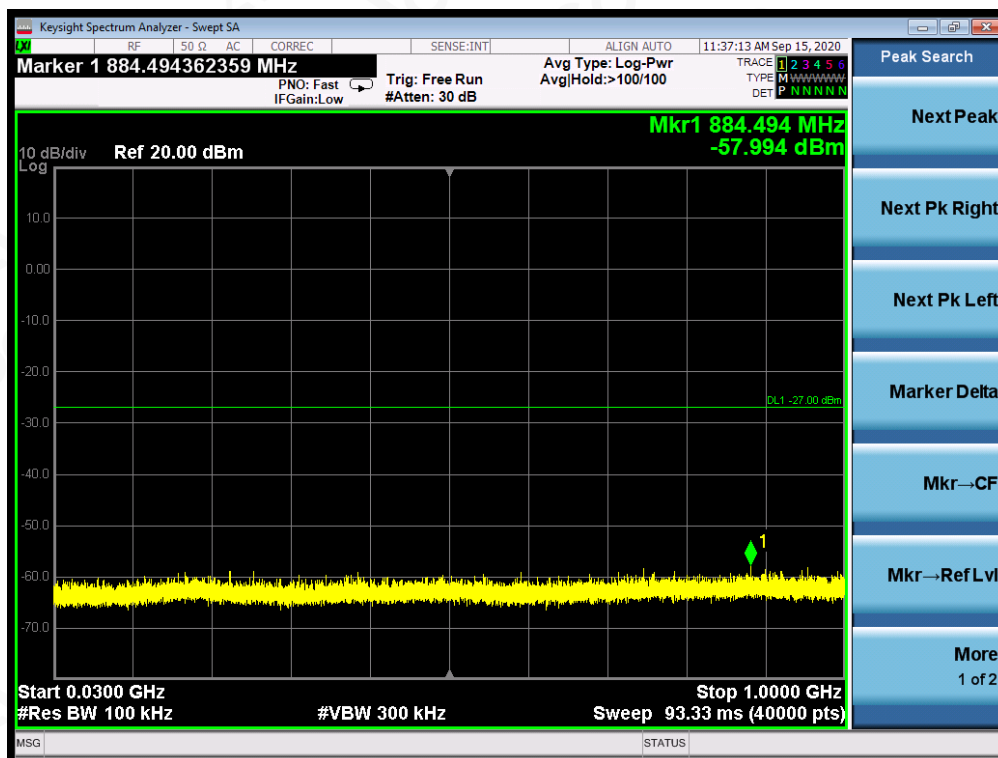


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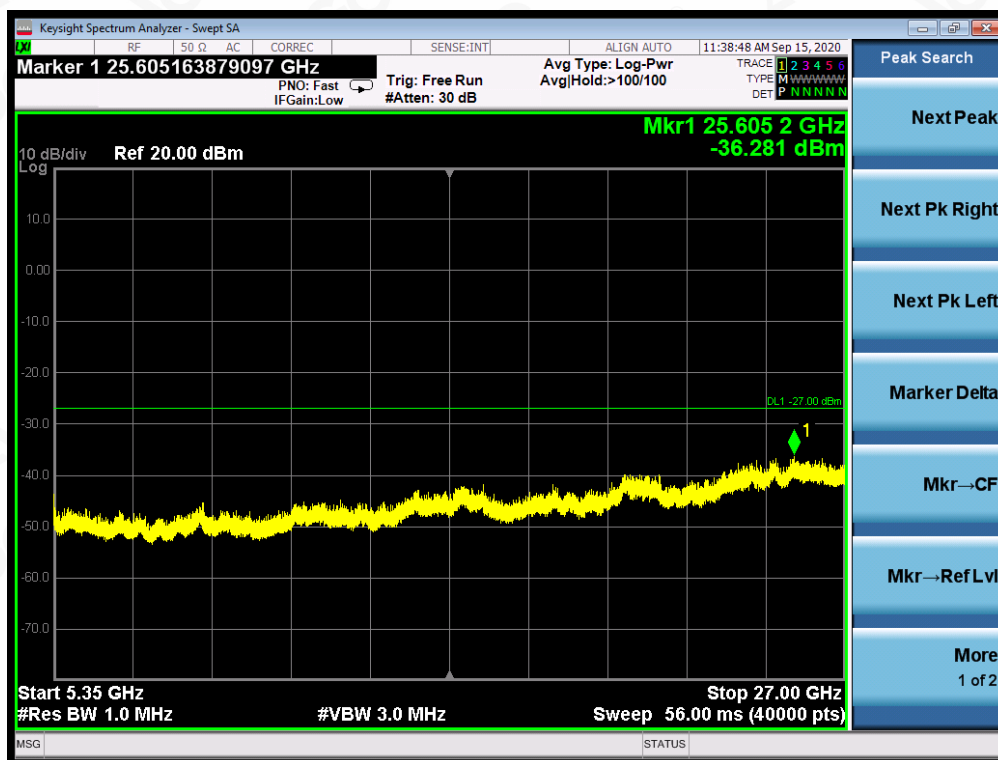
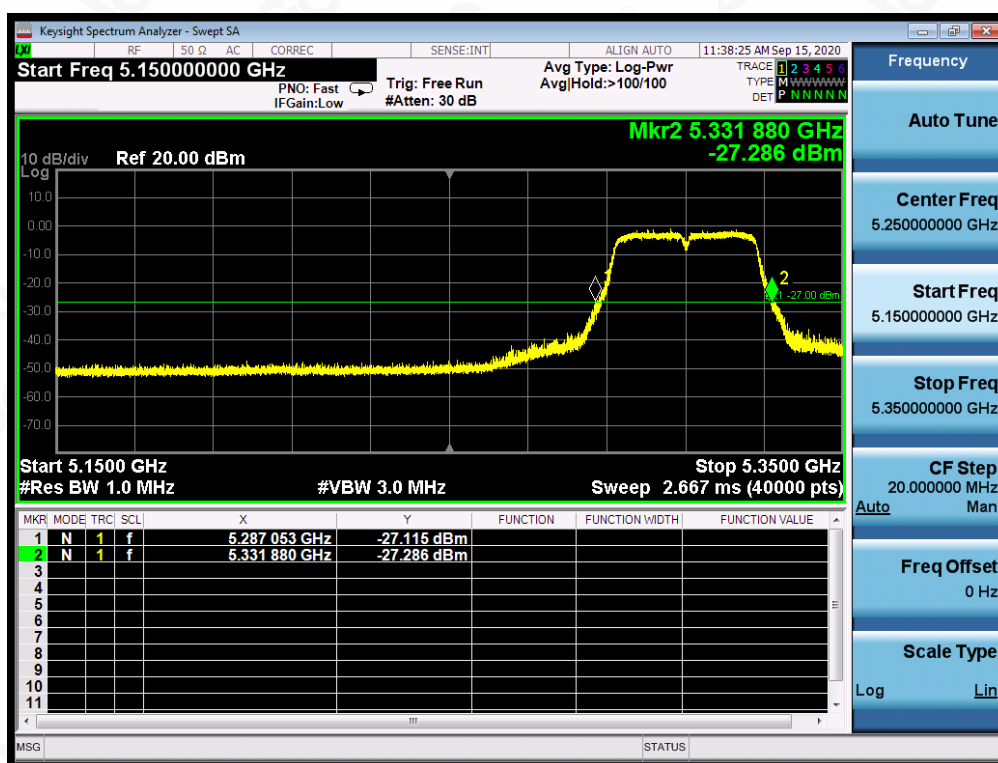
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5310MHz



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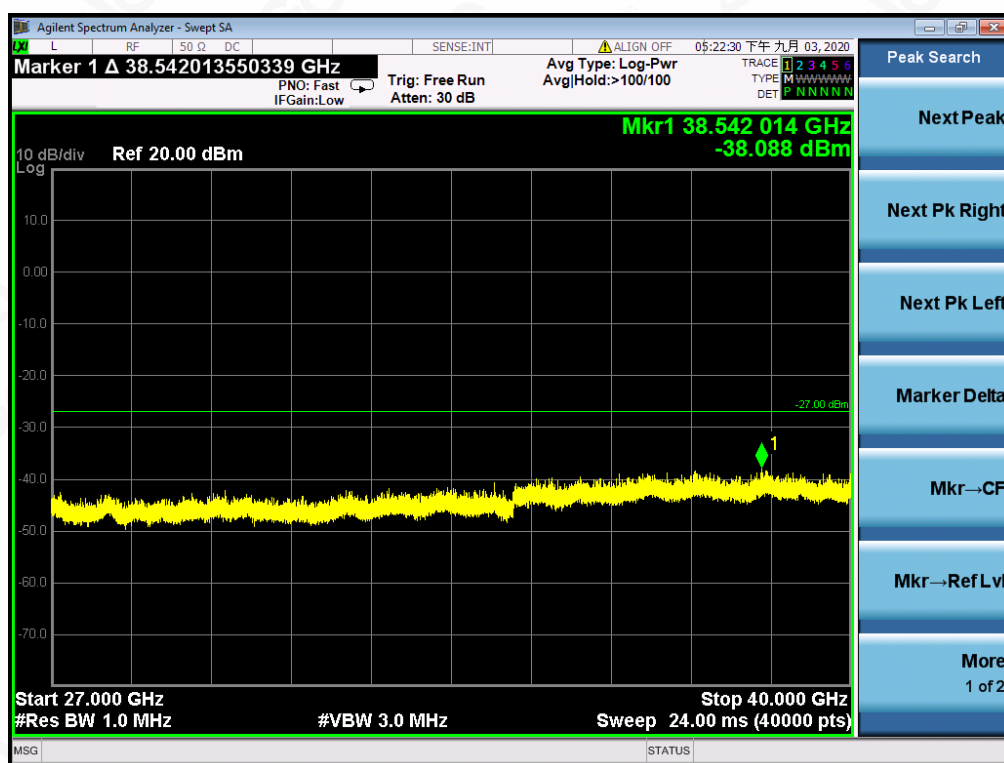




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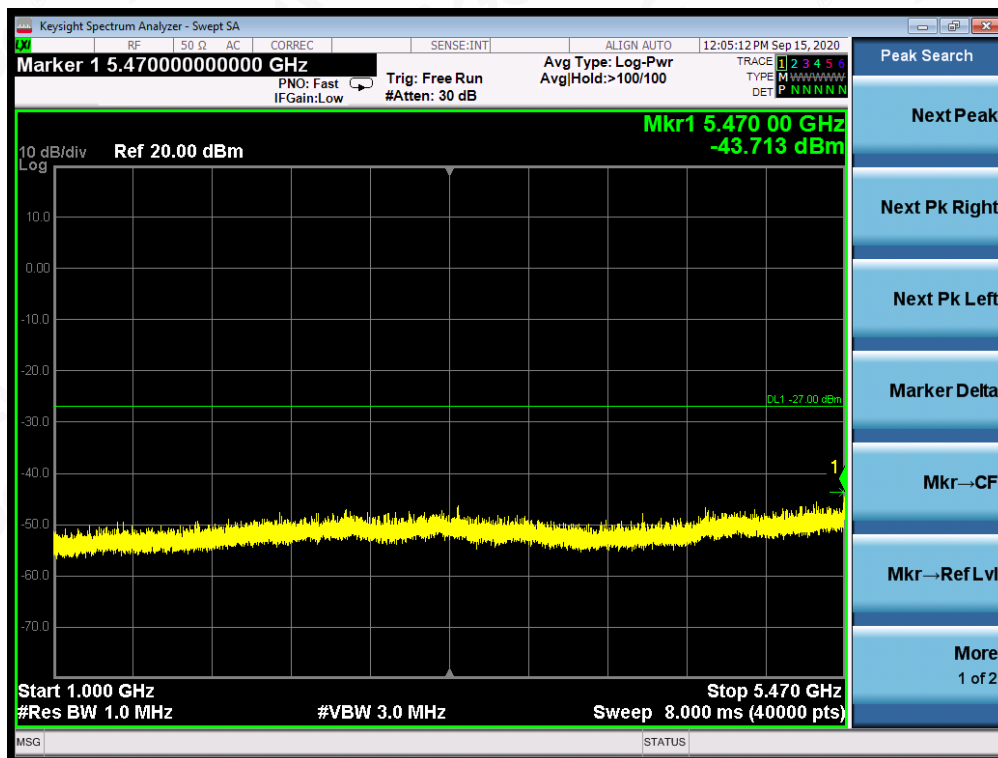
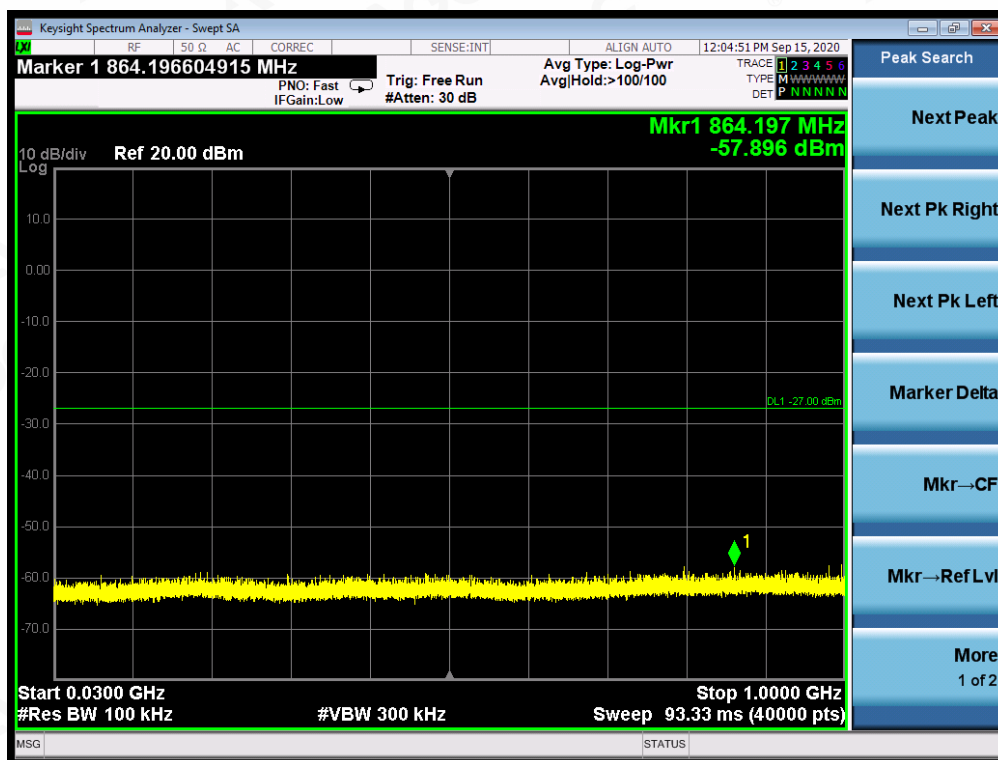


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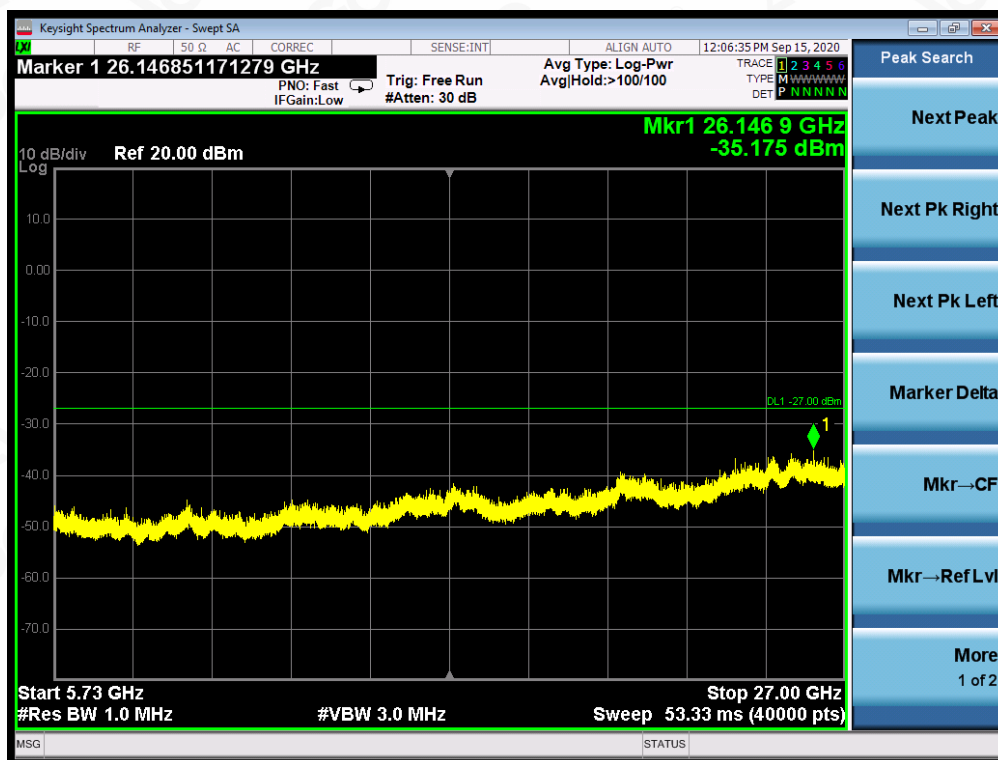
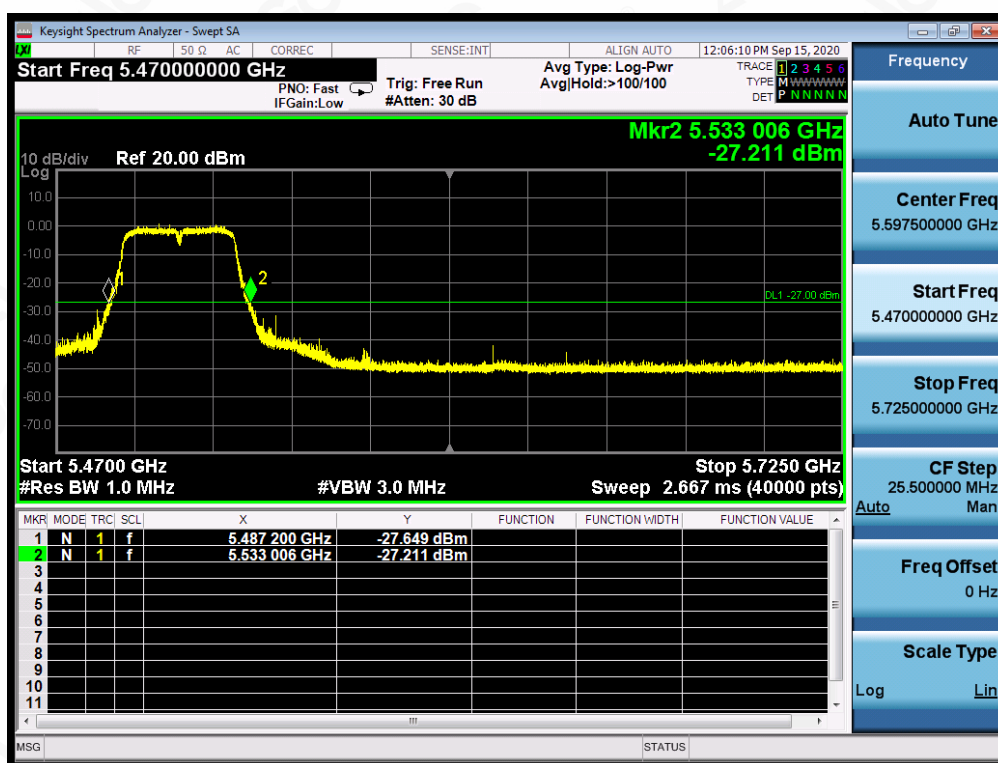
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5510MHz



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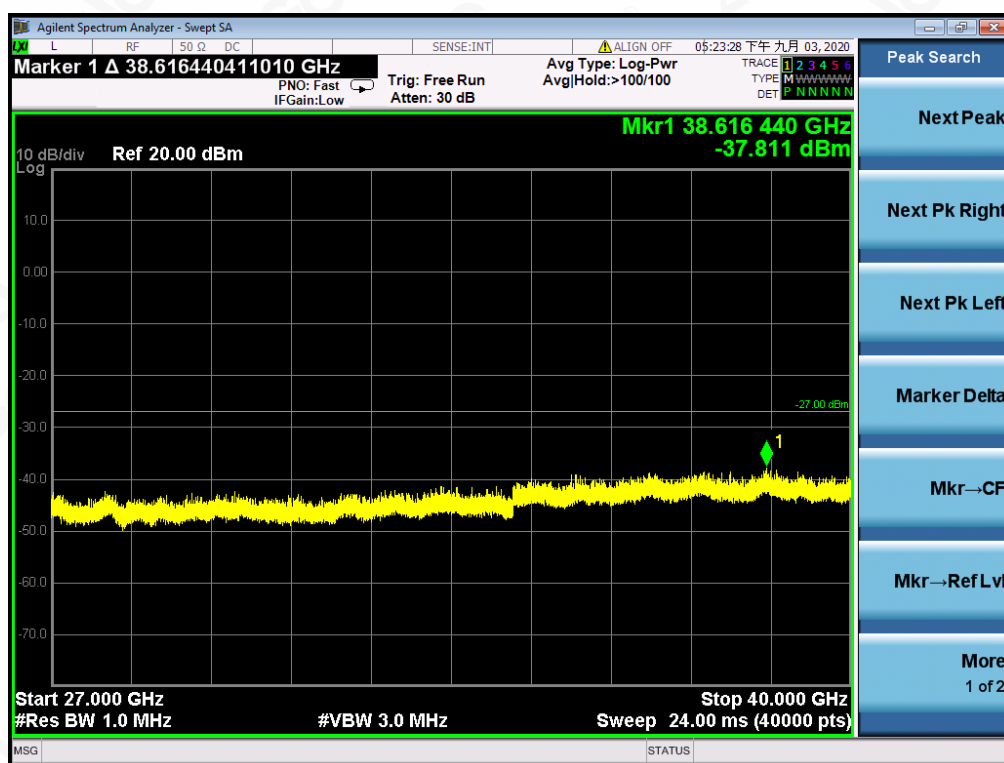




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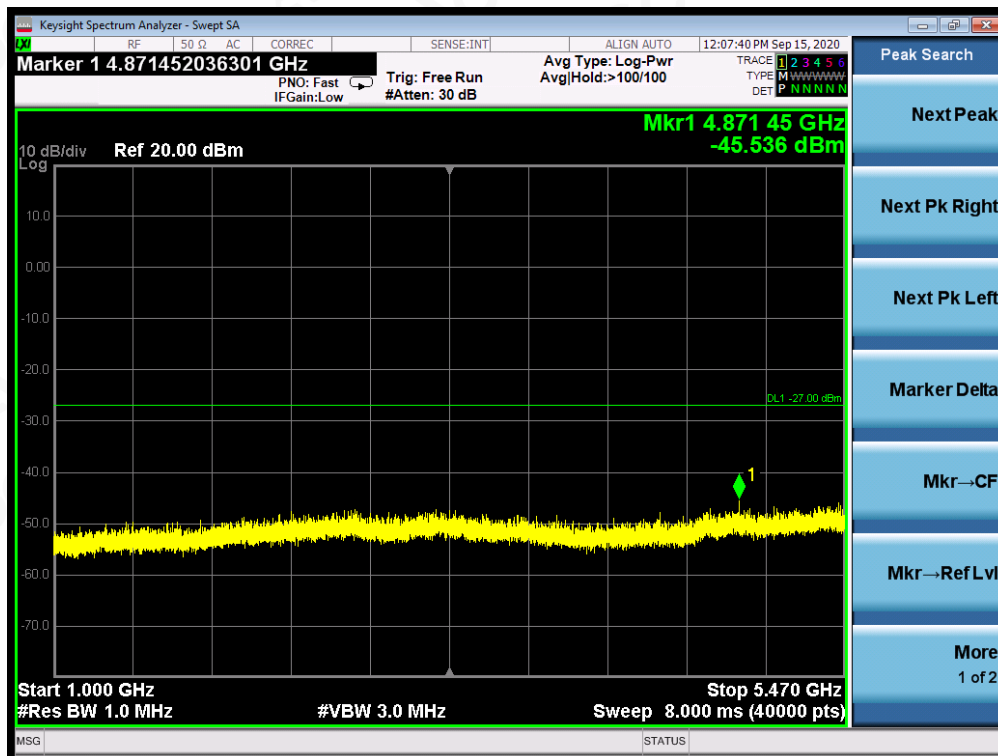
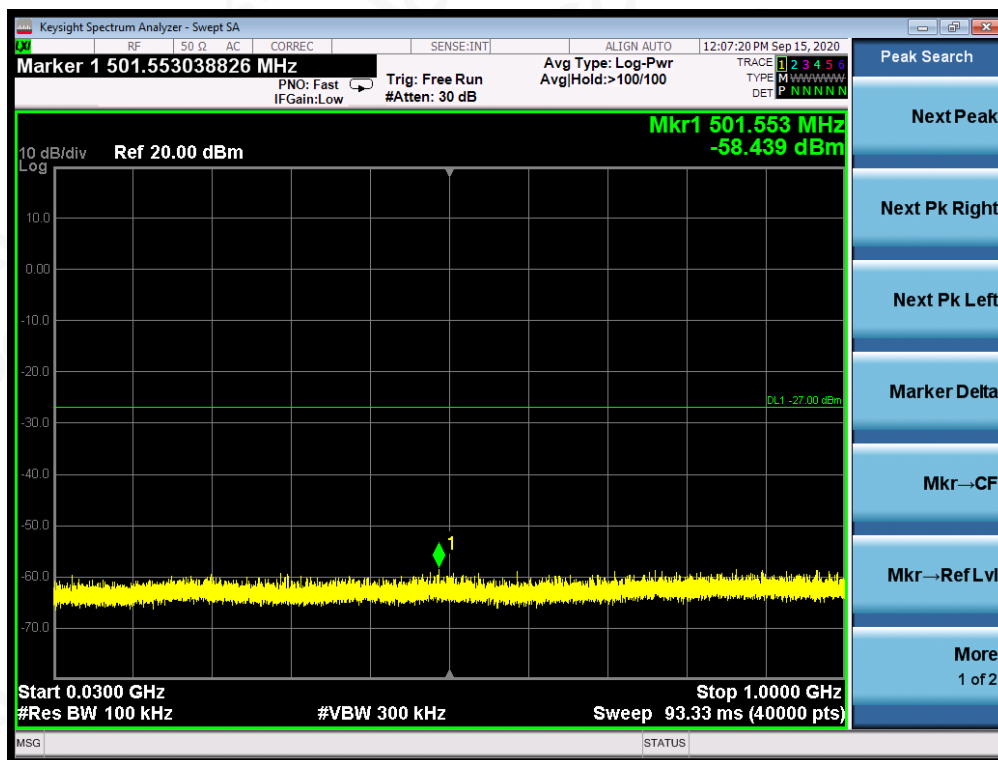


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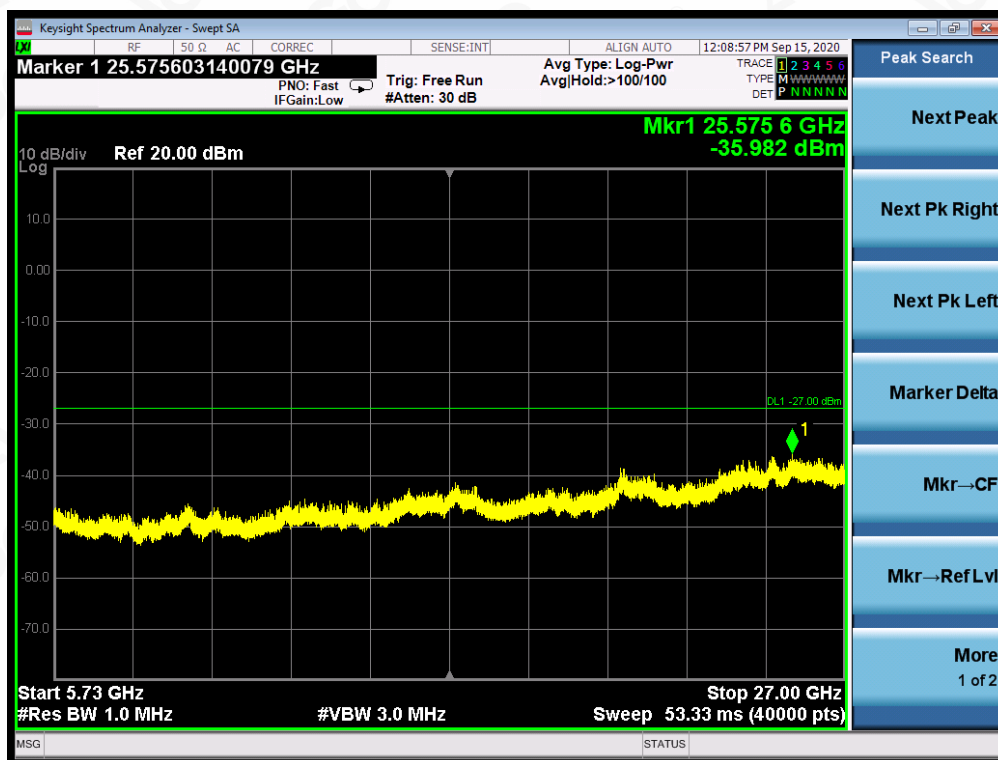
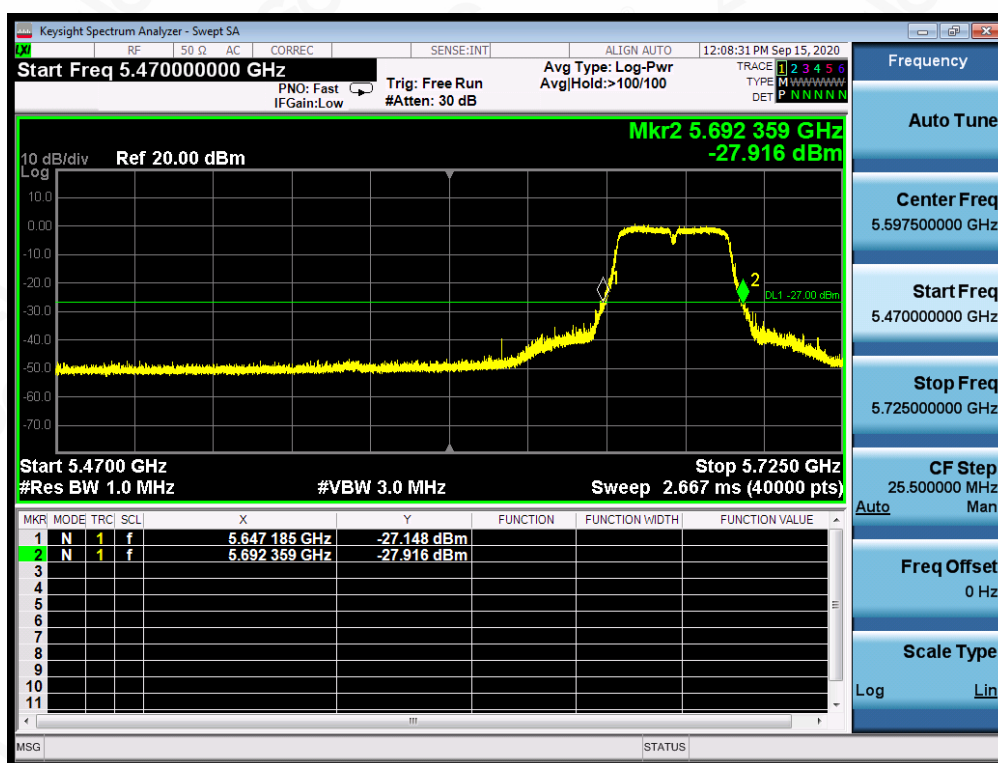
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5670MHz



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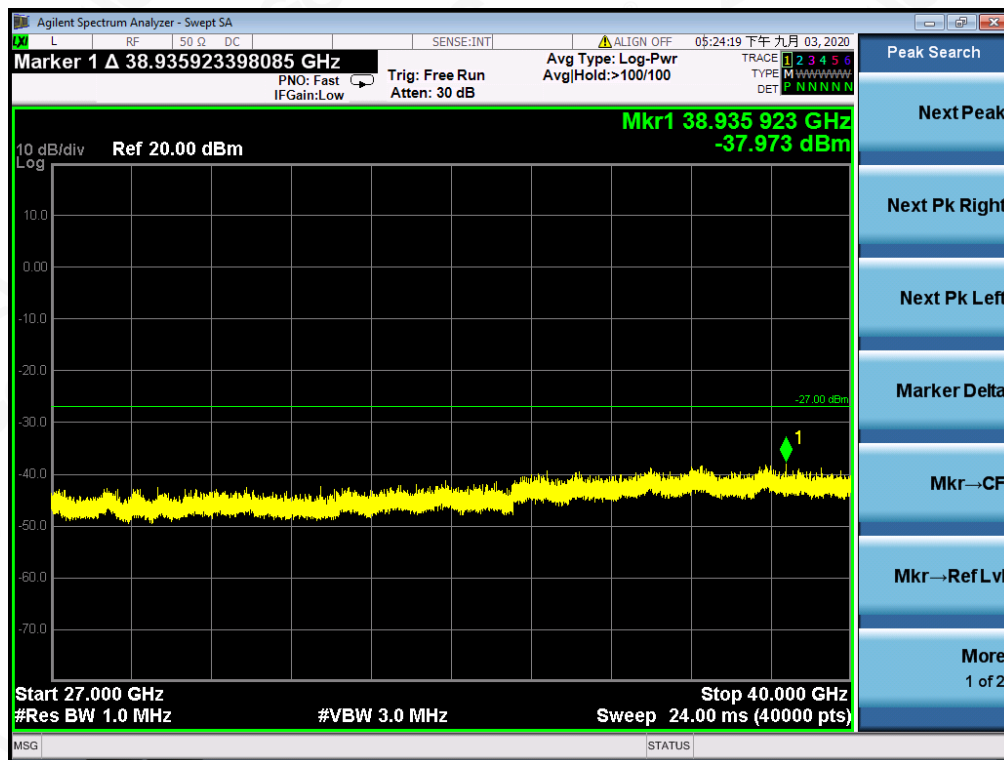




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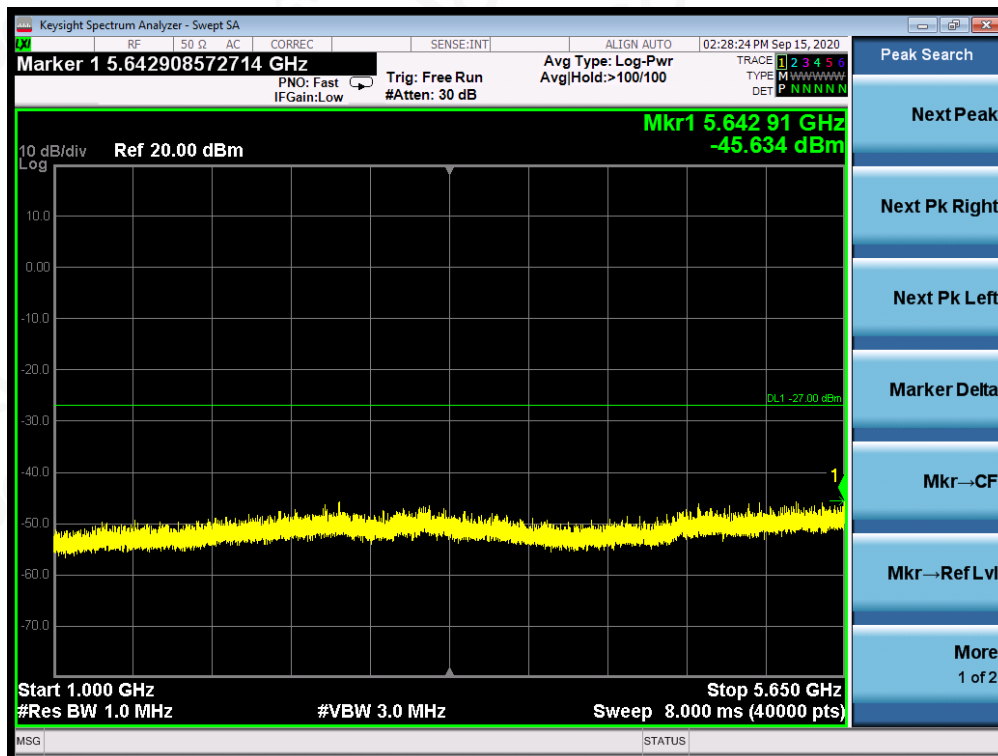
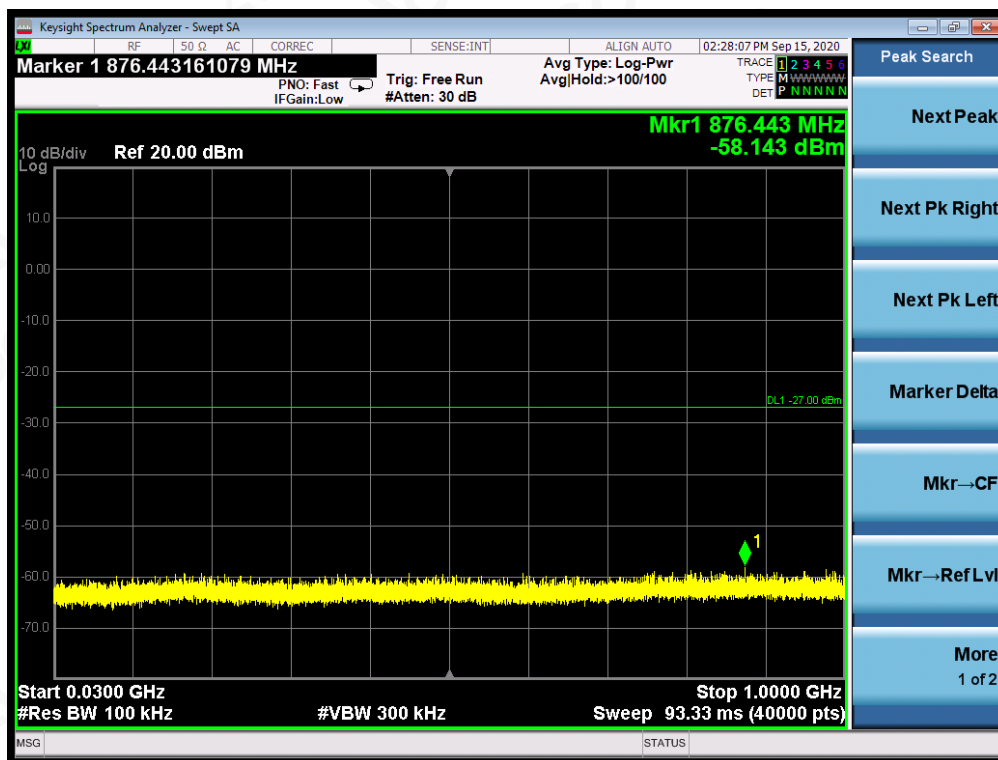


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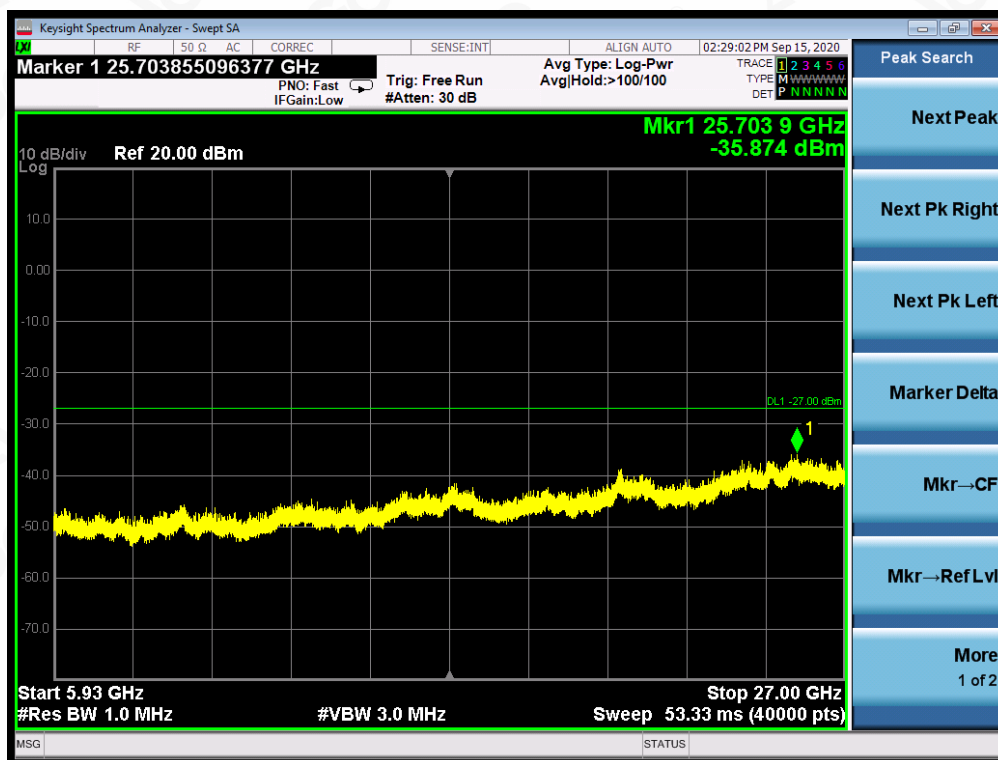
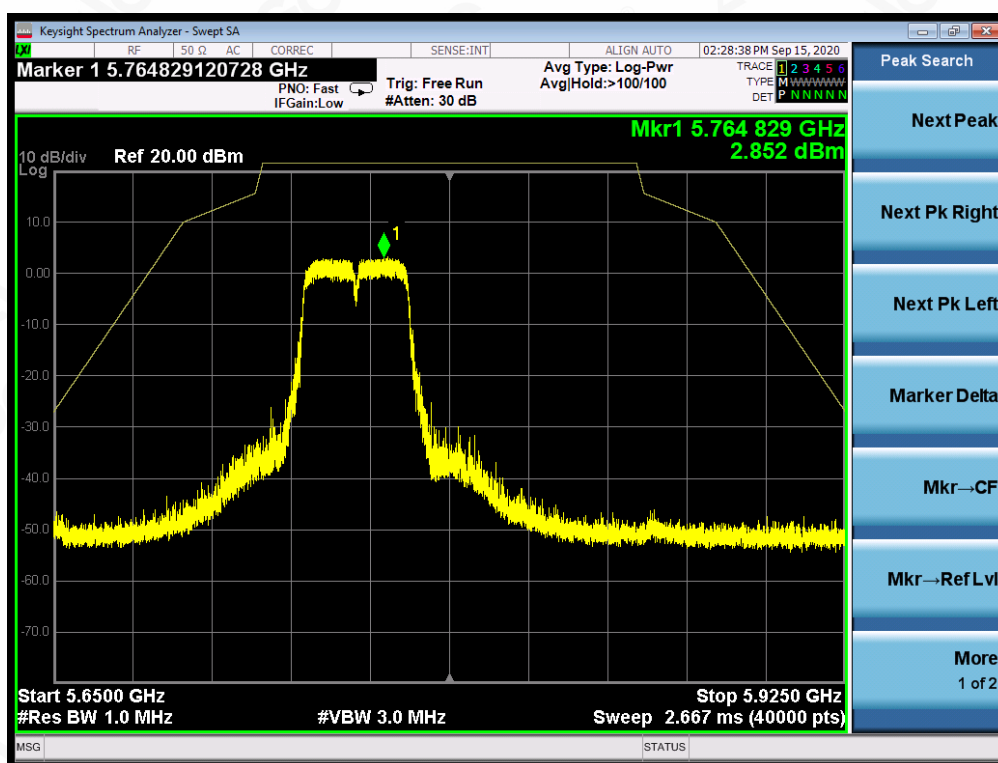
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz



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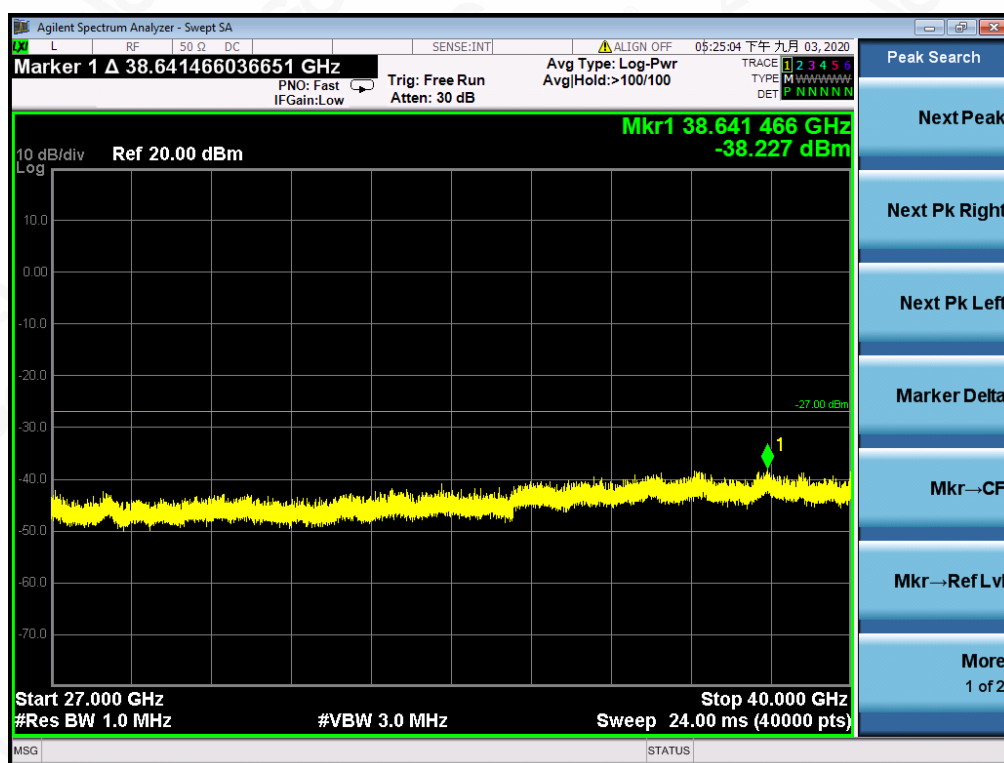




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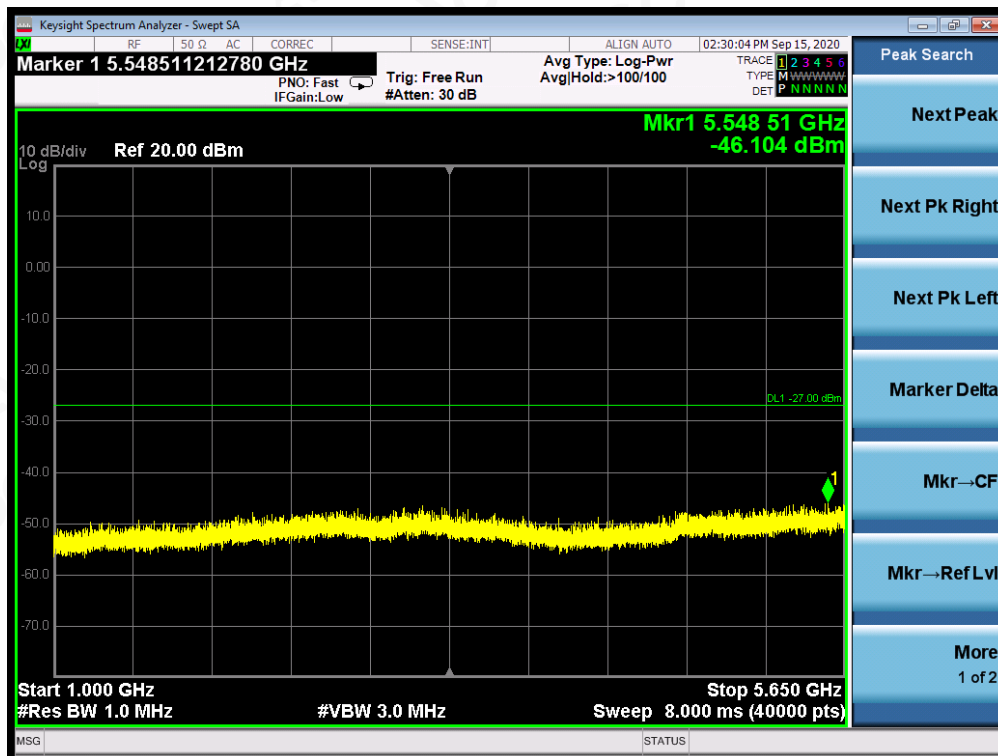
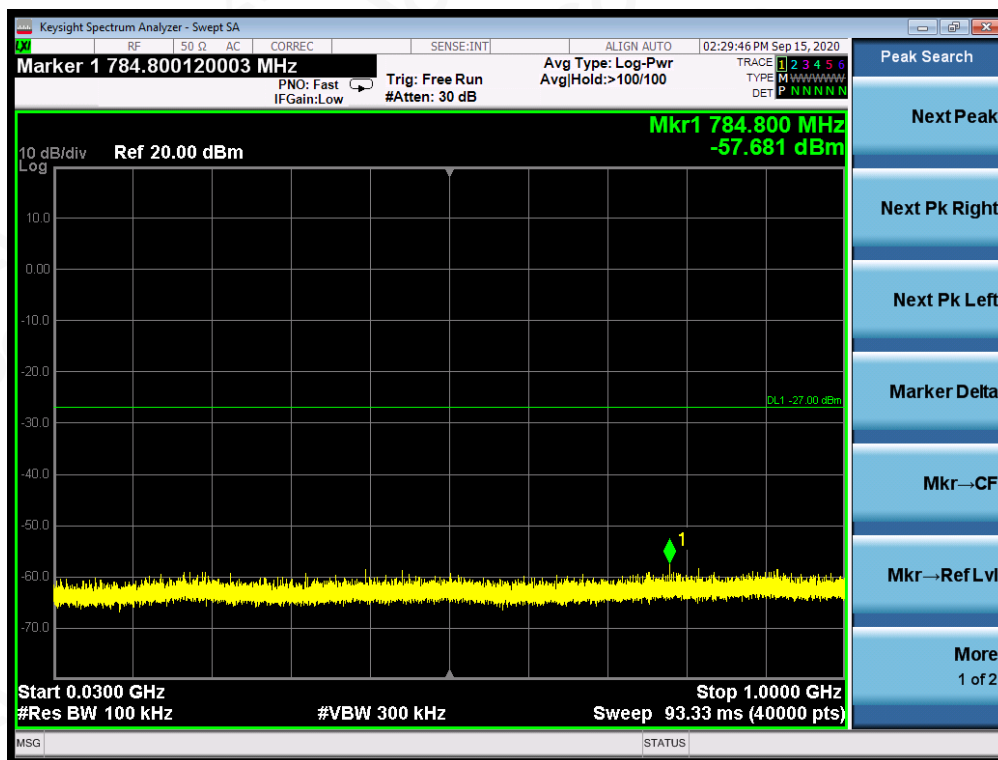


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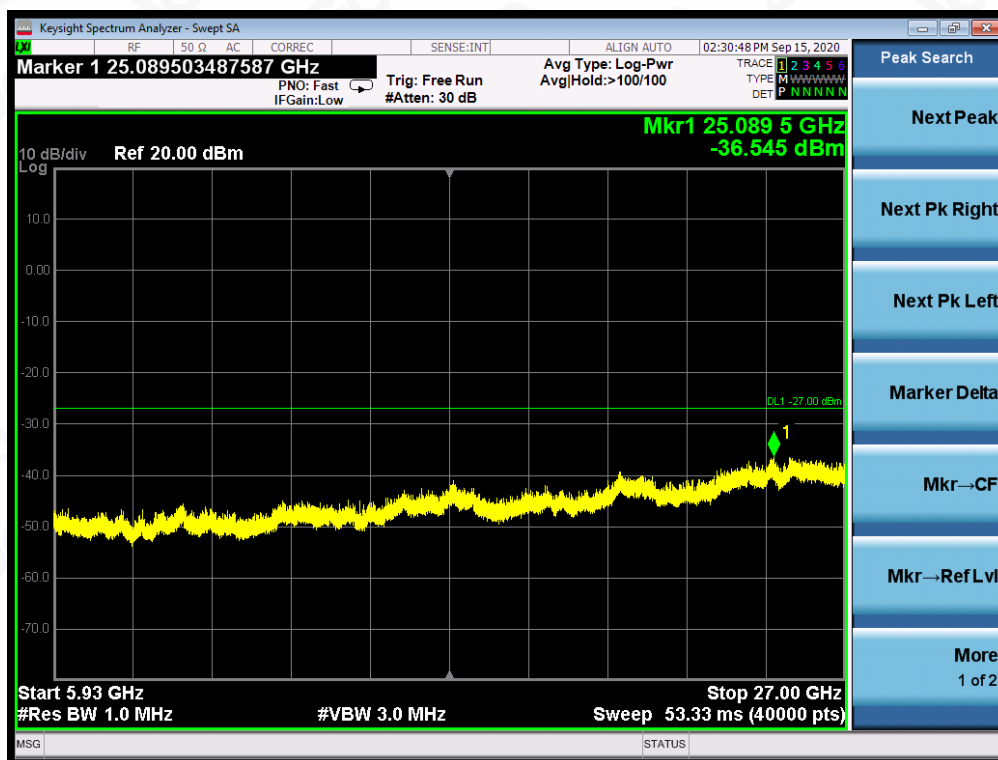
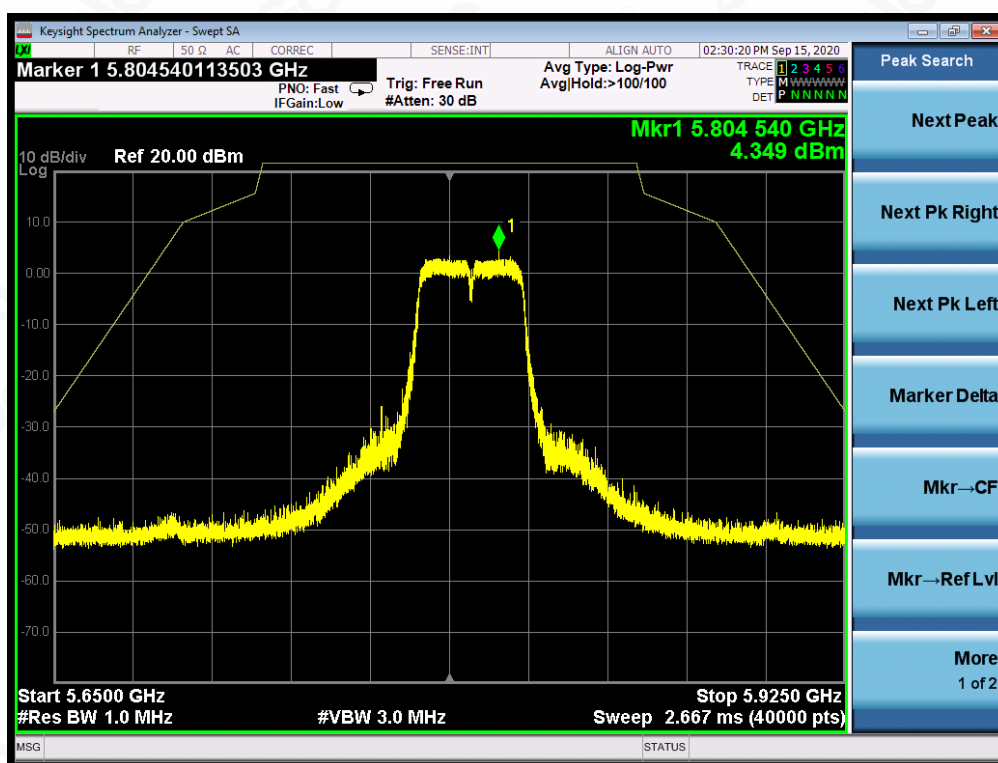
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M



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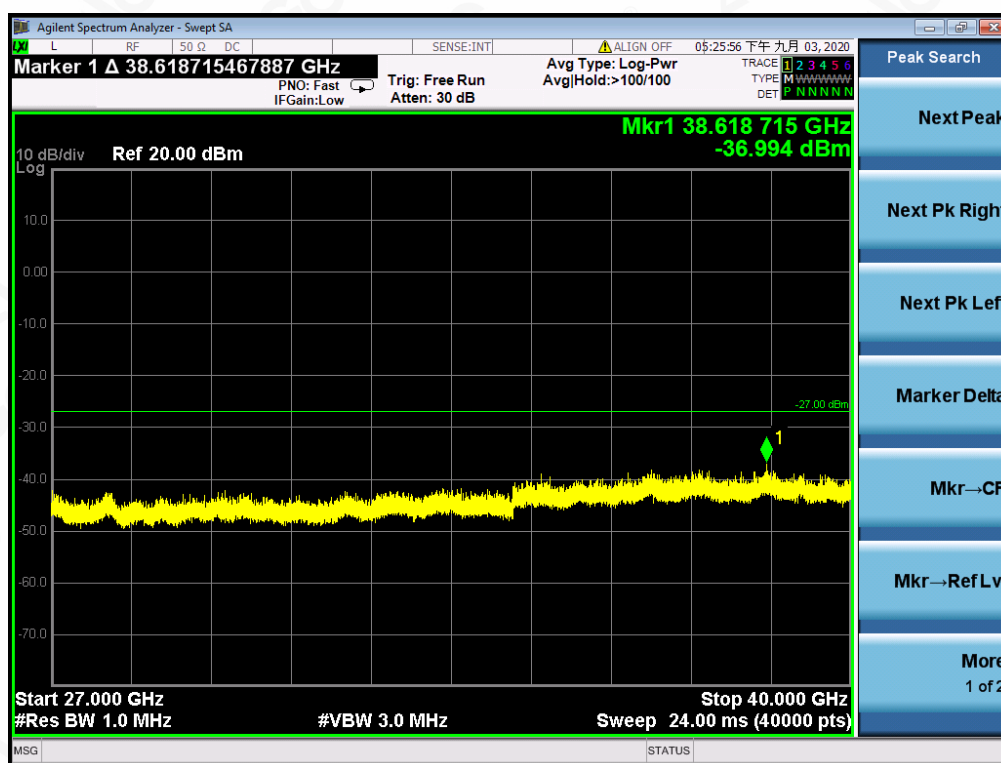




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Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report.

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12. RADIATED EMISSION

12.1. 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 emissions, 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.

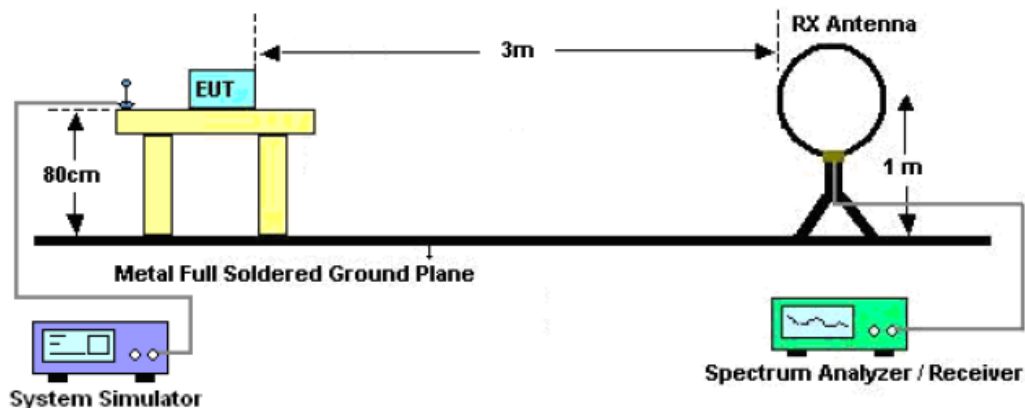
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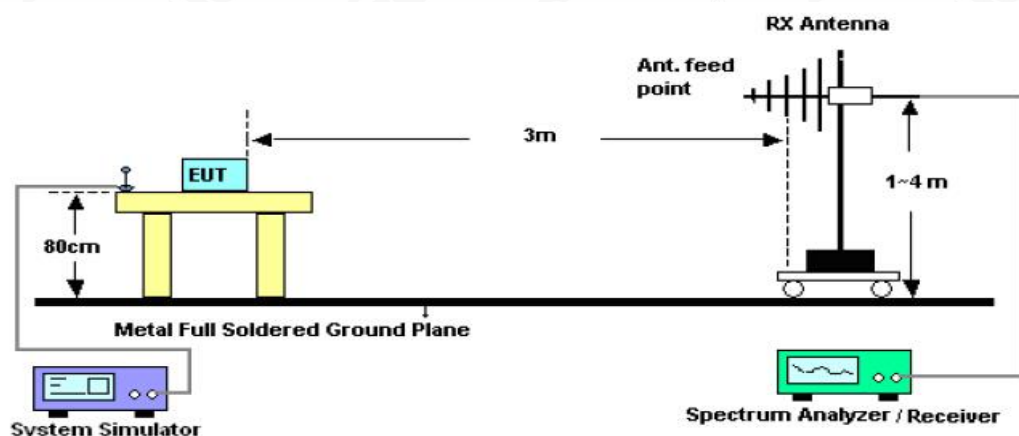


12.2. TEST SETUP

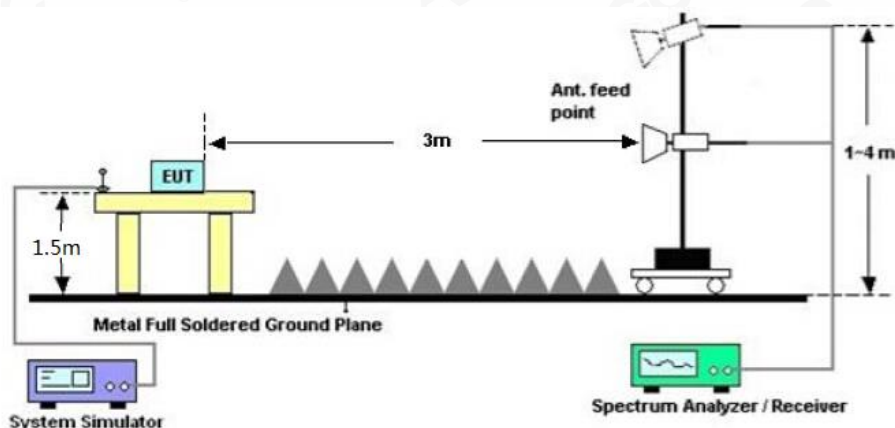
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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12.3. LIMITS AND MEASUREMENT RESULT

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

Frequencies (MHz)	Field Strength (micorvolts/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.

12.4. 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.

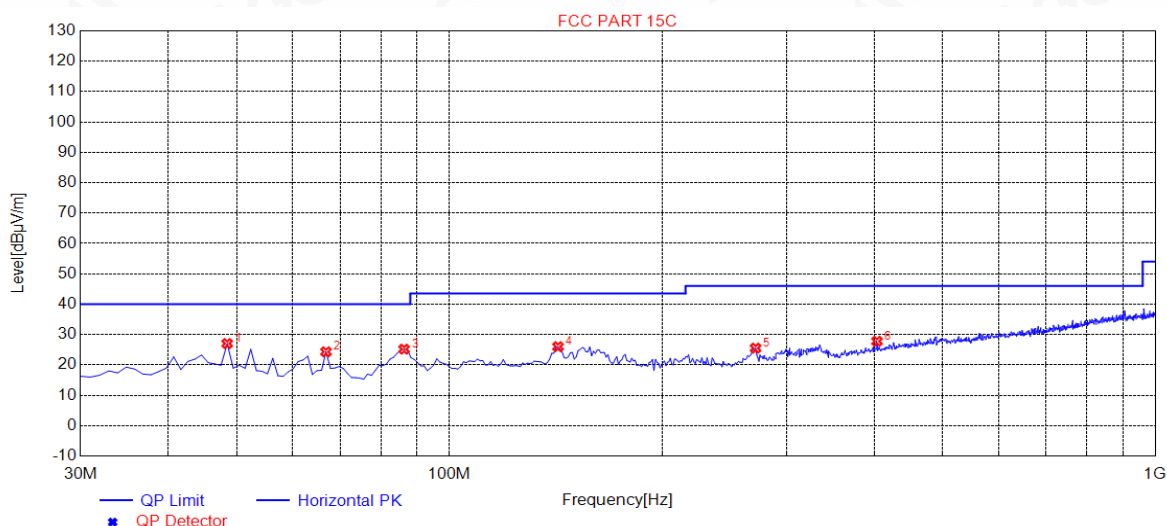
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RADIATED EMISSION BELOW 1GHZ

EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	48.4300	27.04	11.71	40.00	12.96	200	152	Horizontal
2	66.8600	24.32	9.76	40.00	15.68	200	16	Horizontal
3	86.2600	25.18	7.22	40.00	14.82	200	211	Horizontal
4	142.5200	26.01	14.88	43.50	17.49	200	221	Horizontal
5	271.5300	25.53	15.55	46.00	20.47	100	87	Horizontal
6	403.4500	27.80	19.90	46.00	18.20	100	269	Horizontal

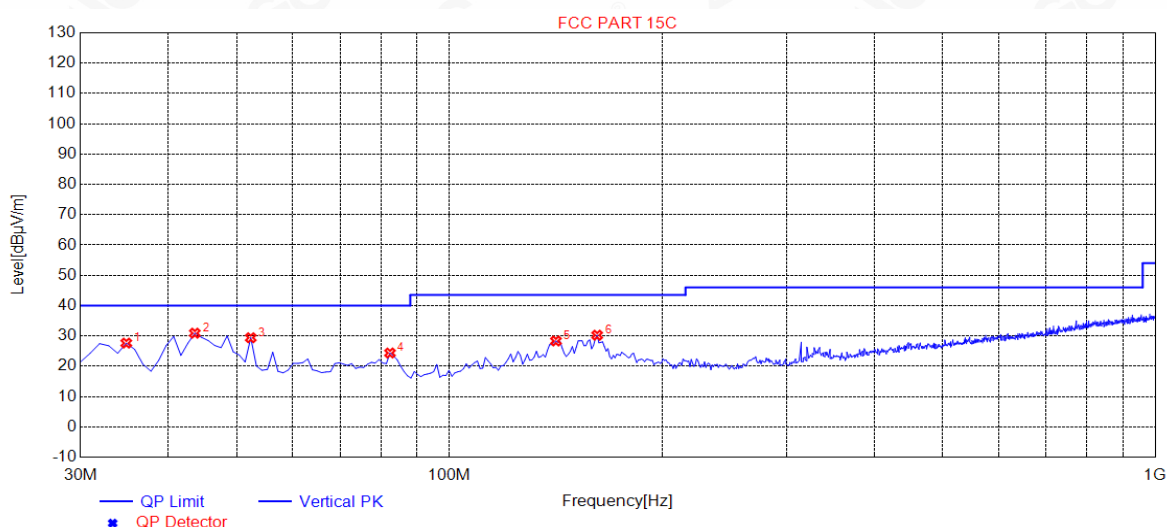
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	27.64	10.70	40.00	12.36	100	120	Vertical
2	43.5800	30.91	11.84	40.00	9.09	100	234	Vertical
3	52.3100	29.40	11.49	40.00	10.60	100	279	Vertical
4	82.3800	24.37	7.17	40.00	15.63	100	240	Vertical
5	141.5500	28.34	14.88	43.50	15.16	100	62	Vertical
6	161.9200	30.24	14.75	43.50	13.26	100	143	Vertical

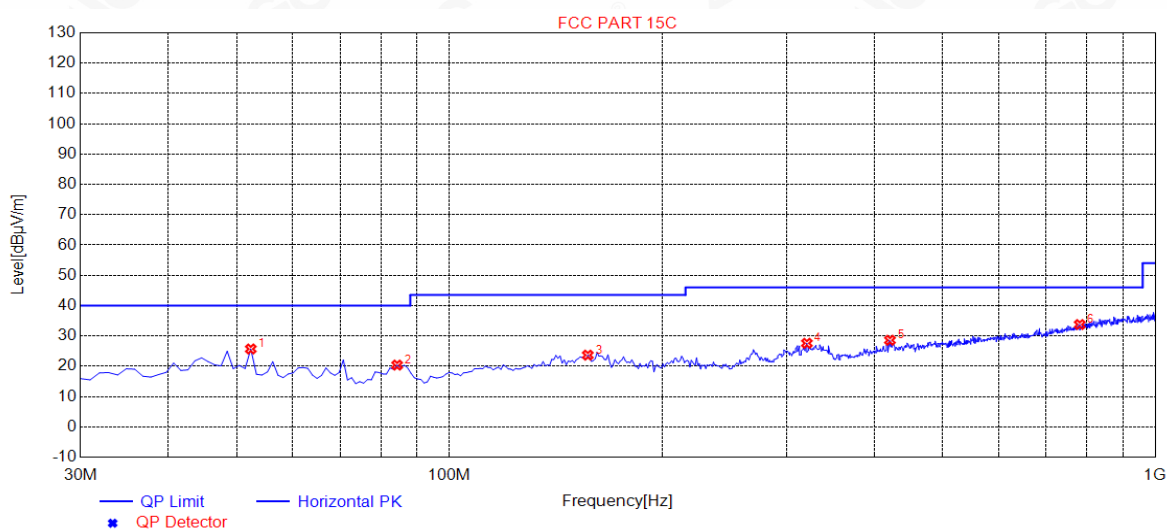
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	25.70	11.49	40.00	14.30	100	270	Horizontal
2	84.3200	20.38	7.19	40.00	19.62	100	191	Horizontal
3	157.0700	23.67	14.93	43.50	19.83	100	263	Horizontal
4	321.0000	27.59	16.73	46.00	18.41	100	178	Horizontal
5	420.9100	28.59	20.28	46.00	17.41	100	287	Horizontal
6	781.7500	33.76	27.99	46.00	12.24	100	357	Horizontal

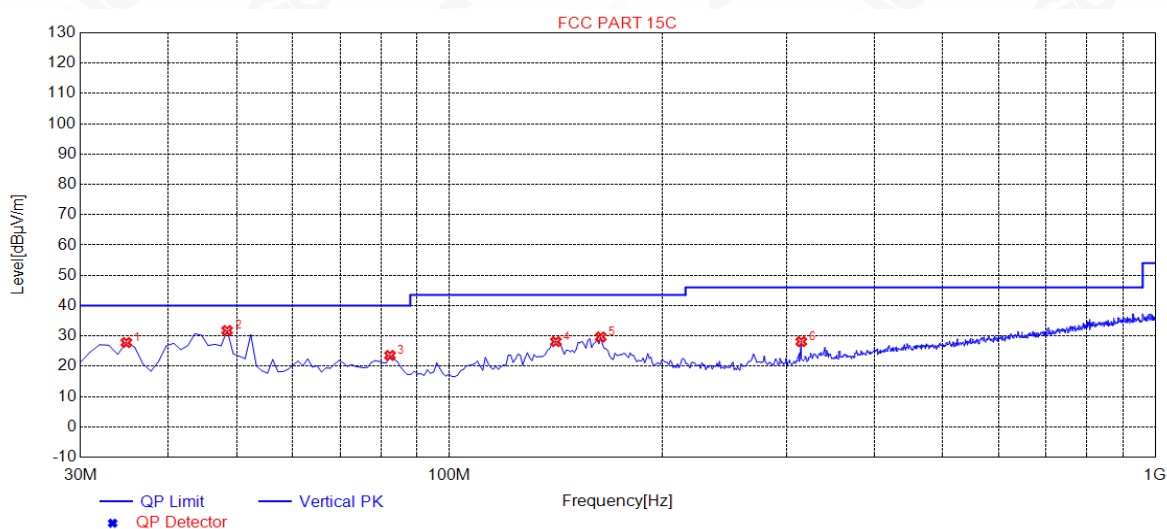
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	27.82	10.70	40.00	12.18	100	264	Vertical
2	48.4300	31.80	11.71	40.00	8.20	100	35	Vertical
3	82.3800	23.57	7.17	40.00	16.43	100	117	Vertical
4	141.5500	28.12	14.88	43.50	15.38	100	225	Vertical
5	163.8600	29.65	14.55	43.50	13.85	100	228	Vertical
6	315.1800	28.13	16.48	46.00	17.87	100	356	Vertical

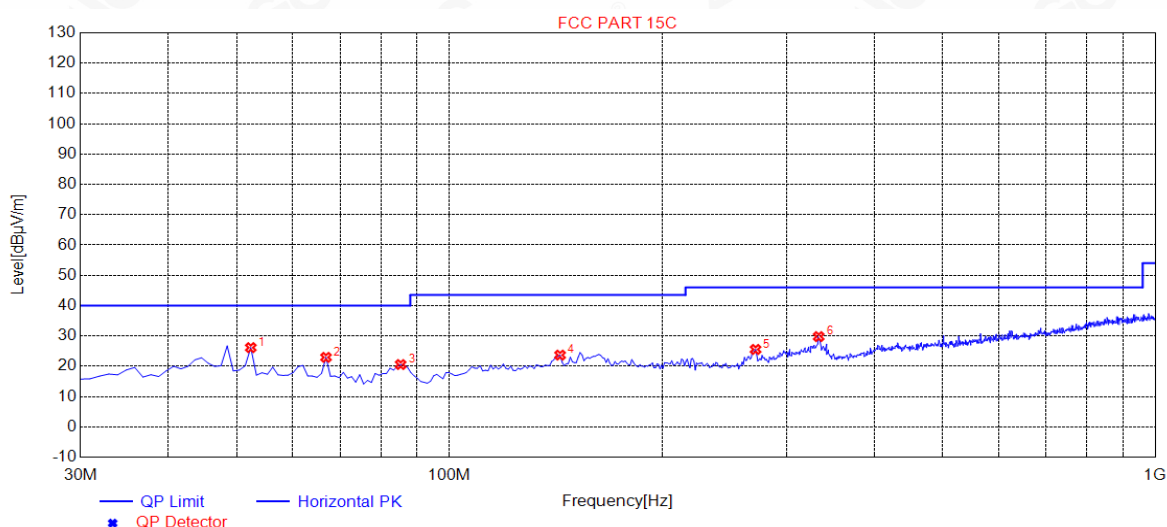
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	26.14	11.49	40.00	13.86	100	360	Horizontal
2	66.8600	22.94	9.76	40.00	17.06	100	117	Horizontal
3	85.2900	20.57	7.20	40.00	19.43	100	179	Horizontal
4	143.4900	23.68	14.88	43.50	19.82	100	215	Horizontal
5	271.5300	25.55	15.55	46.00	20.45	100	153	Horizontal
6	333.6100	29.78	17.24	46.00	16.22	100	78	Horizontal

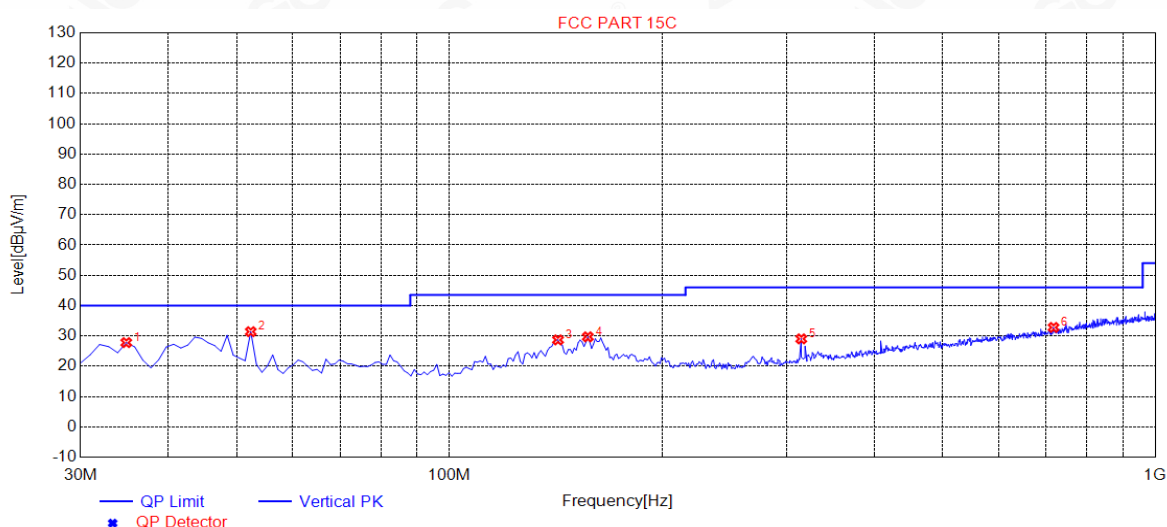
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	27.80	10.70	40.00	12.20	100	179	Vertical
2	52.3100	31.40	11.49	40.00	8.60	100	259	Vertical
3	142.5200	28.69	14.88	43.50	14.81	100	94	Vertical
4	157.0700	29.70	14.93	43.50	13.80	100	170	Vertical
5	315.1800	29.03	16.48	46.00	16.97	100	140	Vertical
6	717.7300	32.80	26.40	46.00	13.20	100	51	Vertical

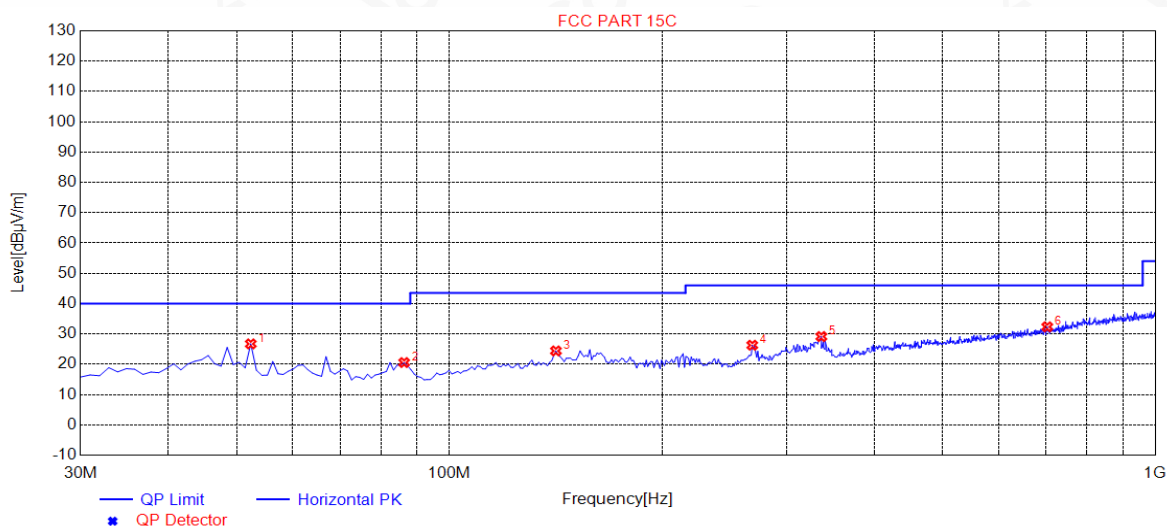
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	52.3100	26.72	11.49	40.00	13.28	100	16	Horizontal
2	86.2600	20.57	7.22	40.00	19.43	100	192	Horizontal
3	141.5500	24.40	14.88	43.50	19.10	100	238	Horizontal
4	268.6200	26.28	15.30	46.00	19.72	100	277	Horizontal
5	336.5200	29.14	17.35	46.00	16.86	100	153	Horizontal
6	703.1800	32.33	26.02	46.00	13.67	100	13	Horizontal

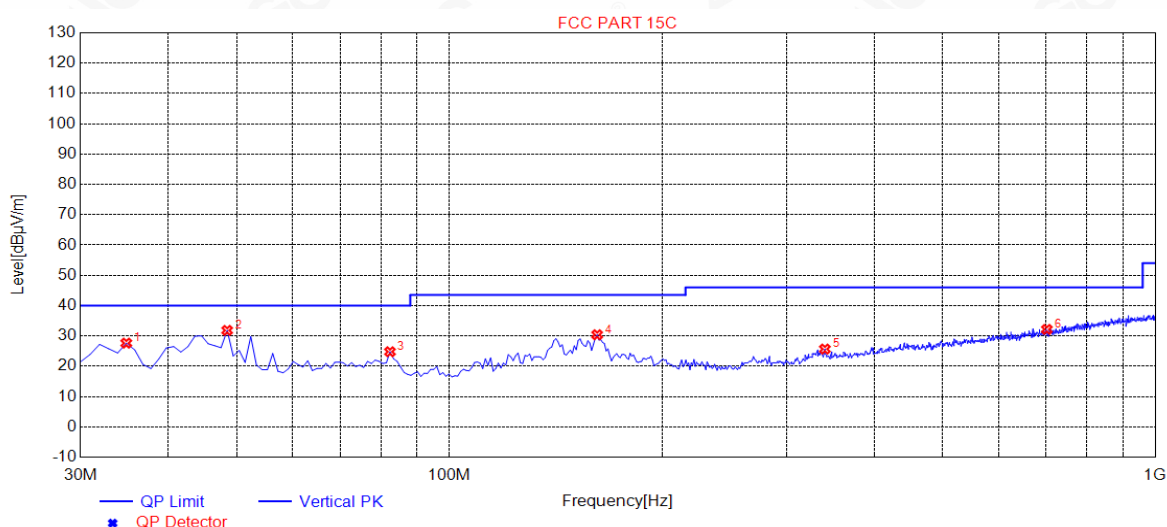
RESULT: PASS

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	34.8500	27.63	10.70	40.00	12.37	100	285	Vertical
2	48.4300	31.83	11.71	40.00	8.17	100	196	Vertical
3	82.3800	24.79	7.17	40.00	15.21	100	196	Vertical
4	161.9200	30.39	14.75	43.50	13.11	100	223	Vertical
5	340.4000	25.67	17.48	46.00	20.33	100	95	Vertical
6	702.2100	32.16	26.00	46.00	13.84	100	0	Vertical

RESULT: PASS

Note: 1.All the 20MHz bandwidth modulation had been tested, 802.11a20 low channel is the worst case and is recorded in his test report.

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

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

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RADIATED EMISSION ABOVE 1GHZ

EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.044	41.58	9.14	50.72	68.20	-17.48	peak
15540.066	39.77	10.22	49.99	74.00	-24.01	peak
15540.066	33.42	10.22	43.64	54.00	-10.36	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10360.044	40.69	9.14	49.83	68.20	-18.37	peak
15540.066	41.12	10.22	51.34	74.00	-22.66	peak
15540.066	32.78	10.22	43.00	54.00	-11.00	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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
10400.044	39.45	9.14	48.59	68.20	-19.61	peak
15600.066	42.32	10.22	52.54	74.00	-21.46	peak
15600.066	31.15	10.22	41.37	54.00	-12.63	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
10400.044	38.24	9.14	47.38	68.20	-20.82	peak
15600.066	41.22	10.22	51.44	74.00	-22.56	peak
15600.066	30.42	10.22	40.64	54.00	-13.36	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10480.044	36.25	9.27	45.52	68.20	-22.68	peak
15720.066	40.51	10.38	50.89	74.00	-23.11	peak
15720.066	30.53	10.38	40.91	54.00	-13.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10480.044	39.44	9.27	48.71	68.20	-19.49	peak
15720.066	40.15	10.38	50.53	74.00	-23.47	peak
15720.066	32.59	10.38	42.97	54.00	-11.03	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5260MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10520.044	37.63	9.29	46.92	68.20	-21.28	peak
15780.066	40.25	10.42	50.67	74.00	-23.33	peak
15780.066	32.11	10.42	42.53	54.00	-11.47	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
10520.044	39.05	9.29	48.34	68.20	-19.86	peak
15780.066	41.77	10.42	52.19	74.00	-21.81	peak
15780.066	33.25	10.42	43.67	54.00	-10.33	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	38.42	9.29	47.71	74.00	-26.29	peak
10600.044	32.57	9.29	41.86	54.00	-12.14	AVG
15900.066	39.64	10.42	50.06	74.00	-23.94	peak
15900.066	30.41	10.42	40.83	54.00	-13.17	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
10600.044	39.05	9.29	48.34	74.00	-25.66	peak
10600.044	31.99	9.29	41.28	54.00	-12.72	AVG
15900.066	41.77	10.42	52.19	74.00	-21.81	peak
15900.066	33.25	10.42	43.67	54.00	-10.33	AVG

Remark:

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

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	44.25	9.35	53.60	74.00	-20.40	peak
10640.044	34.24	9.35	43.59	54.00	-10.41	AVG
15960.066	40.64	10.46	51.10	74.00	-22.90	peak
15960.066	33.25	10.46	43.71	54.00	-10.29	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
10640.044	47.62	9.35	56.97	74.00	-17.03	peak
10640.044	33.28	9.35	42.63	54.00	-11.37	AVG
15960.066	45.37	10.46	55.83	74.00	-18.17	peak
15960.066	32.69	10.46	43.15	54.00	-10.85	AVG

Remark:

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

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	41.27	9.37	50.64	74.00	-23.36	peak
11000.044	34.39	9.37	43.76	54.00	-10.24	AVG
16500.066	33.89	10.48	44.37	68.20	-23.83	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
11000.044	43.36	9.37	52.73	74.00	-21.27	peak
11000.044	35.51	9.37	44.88	54.00	-9.12	AVG
16500.066	37.25	10.48	47.73	68.20	-20.47	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	42.41	9.37	51.78	74.00	-22.22	peak
11200.044	32.75	9.37	42.12	54.00	-11.88	AVG
16800.066	38.92	10.48	49.40	68.20	-18.80	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	41.92	9.37	51.29	74.00	-22.71	peak
11200.044	34.61	9.37	43.98	54.00	-10.02	AVG
16800.066	39.05	10.48	49.53	68.20	-18.67	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	47.37	9.39	56.76	74.00	-17.24	peak
11400.044	34.35	9.39	43.74	54.00	-10.26	AVG
17100.066	38.42	10.49	48.91	68.20	-19.29	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	43.21	9.39	52.60	74.00	-21.40	peak
11400.044	33.52	9.39	42.91	54.00	-11.09	AVG
17100.066	39.39	10.49	49.88	68.20	-18.32	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	43.21	9.42	52.63	74.00	-21.37	peak
11490.042	32.49	9.42	41.91	54.00	-12.09	AVG
17235.063	40.07	10.51	50.58	68.20	-17.62	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	41.18	9.42	50.60	74.00	-23.40	peak
11490.042	33.66	9.42	43.08	54.00	-10.92	AVG
17235.063	39.42	10.51	49.93	68.20	-18.27	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	41.85	9.42	51.27	74.00	-22.73	peak
11570.042	33.41	9.42	42.83	54.00	-11.17	AVG
17355.063	39.15	10.51	49.66	68.20	-18.54	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	40.41	9.42	49.83	74.00	-24.17	peak
11570.042	32.76	9.42	42.18	54.00	-11.82	AVG
17355.063	40.57	10.51	51.08	68.20	-17.12	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
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	42.02	9.62	51.64	74.00	-22.36	peak
11650.042	34.75	9.62	44.37	54.00	-9.63	AVG
17475.063	40.07	10.75	50.82	68.20	-17.38	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	41.19	9.62	50.81	74.00	-23.19	peak
11650.042	33.25	9.62	42.87	54.00	-11.13	AVG
17475.063	38.25	10.75	49.00	68.20	-19.20	peak
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

- Note:** 1. All the 20MHz bandwidth modulation had been tested, 802.11a20 mode is the worst case and is recorded in his test report.
2. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.
3. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.
4. The “Factor” value can be calculated automatically by software of measurement system.

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13. BAND EDGE EMISSION

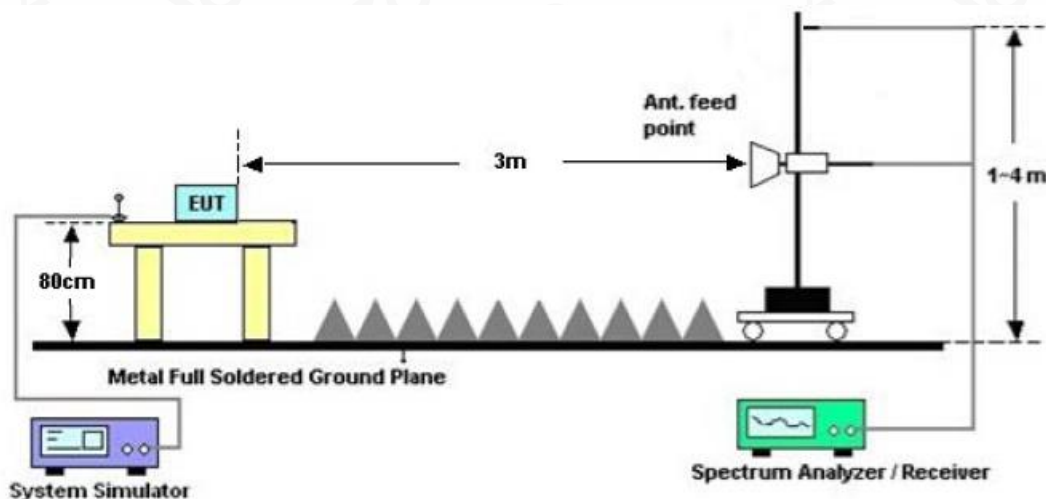
13.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.
2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO
(b) AVERAGE: RBW=1MHz ; VBW=1/on time(1KHz) / Sweep=AUTO
3. Other procedures refer to clause 11.2.

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level
2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.
3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

13.2. TEST SET-UP



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13.3. TEST RESULT

EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



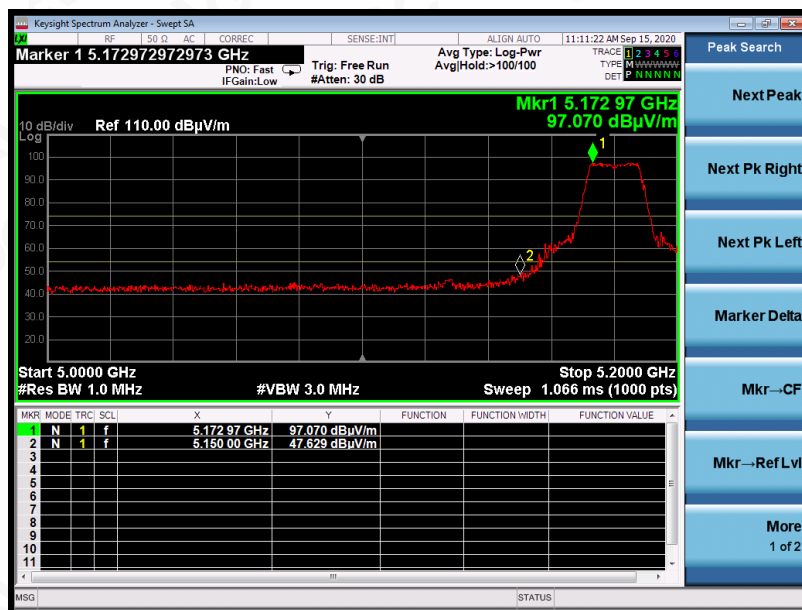
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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Horizontal

PK Value



AV Value



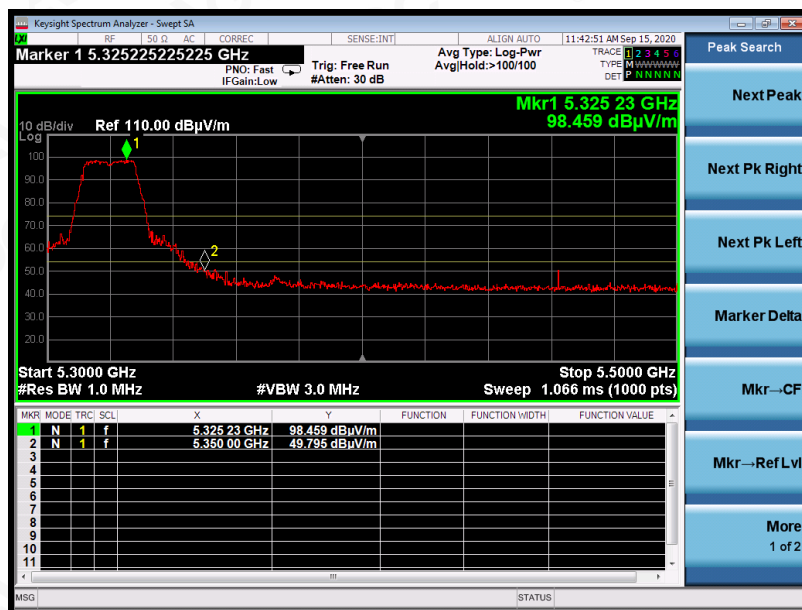
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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5320MHz	Antenna	Vertical

PK Value



AV Value



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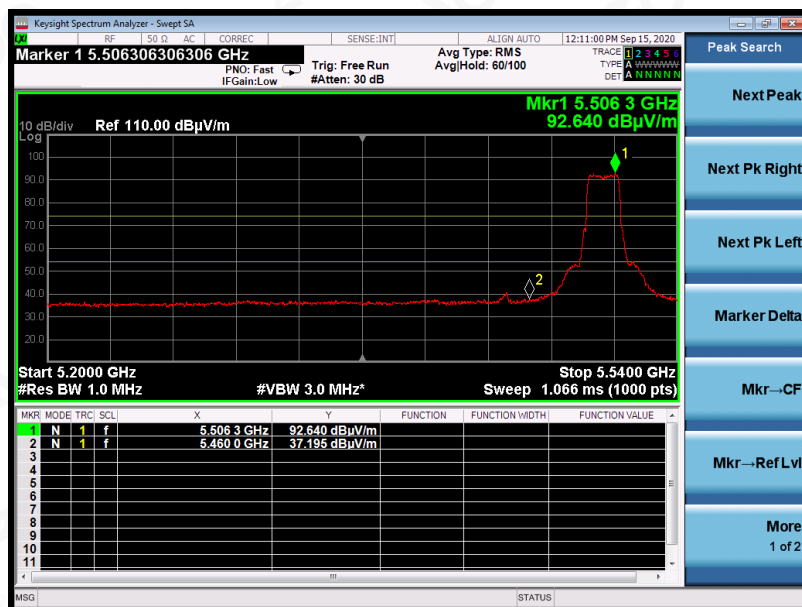


EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Horizontal

PK Value



AV Value



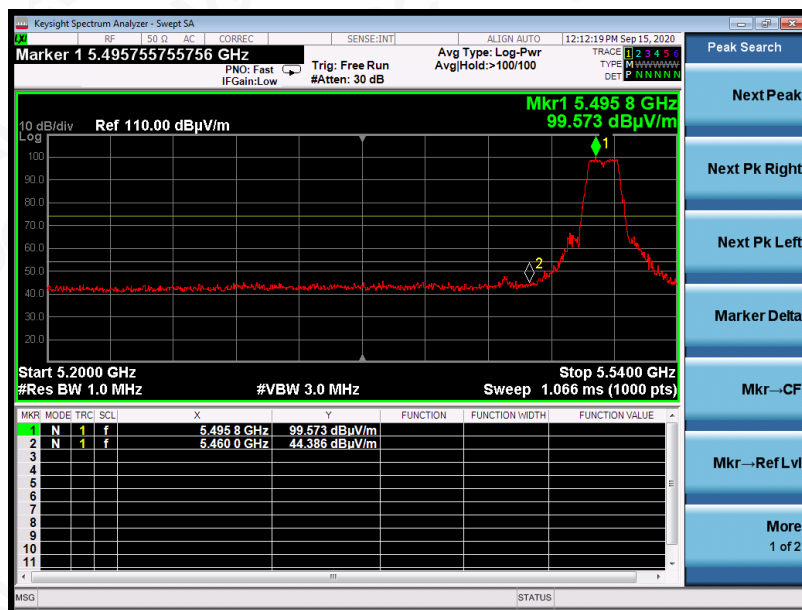
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EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5500MHz	Antenna	Vertical

PK Value



AV Value



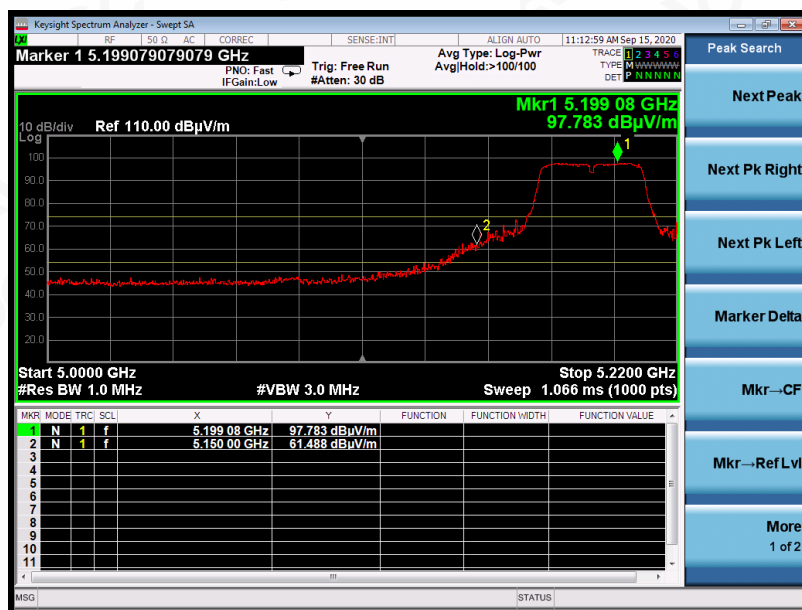
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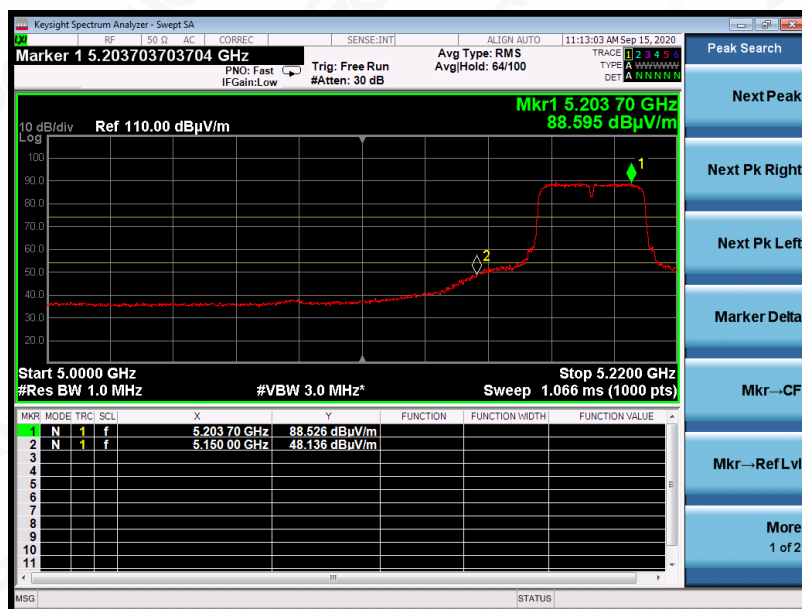


EUT	Android POS	Model Name	APOLLO
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

PK Value



AV Value



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