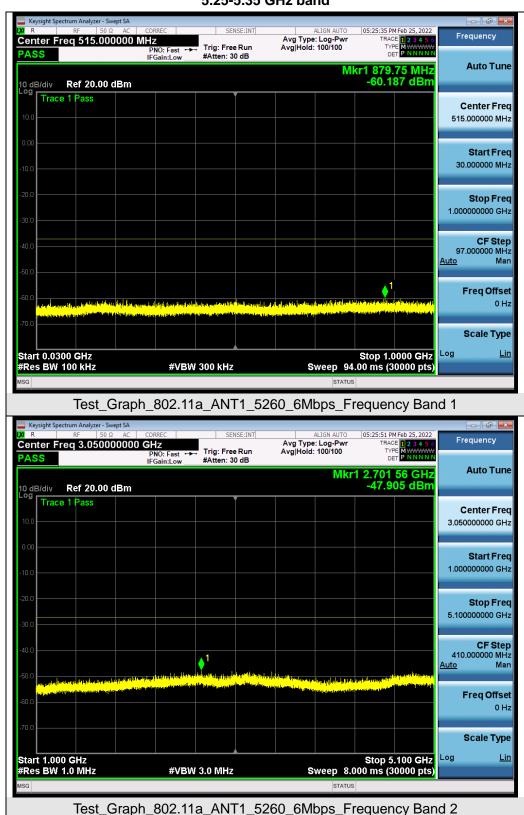


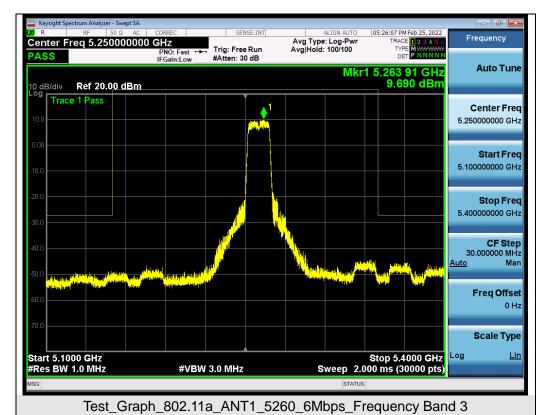


Test Graphs of Spurious Emissions outside of the 5.15-5.35 GHz band for transmitters operating in the 5.25-5.35 GHz band



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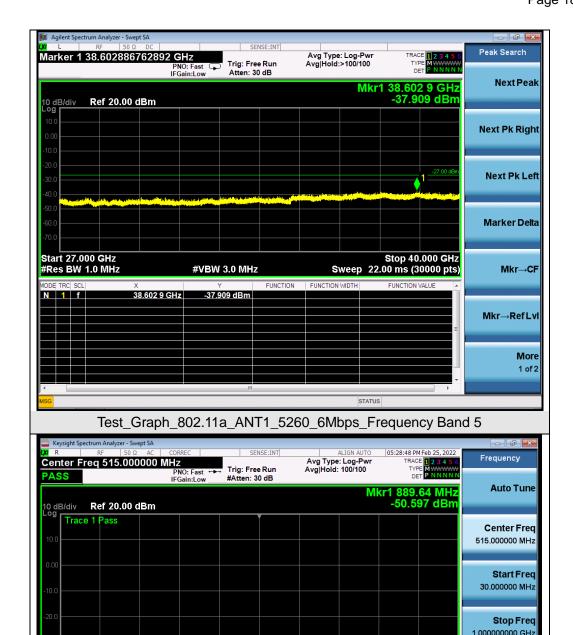
CF Step 97.000000 MHz <u>o</u> Man

> Freq Offset 0 Hz

Scale Type

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)





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Test_Graph_802.11a_ANT1_5320_6Mbps_Frequency Band 1

#VBW 300 kHz

Start 0.0300 GHz #Res BW 100 kHz

Stop Freq 5 400000000 GHz

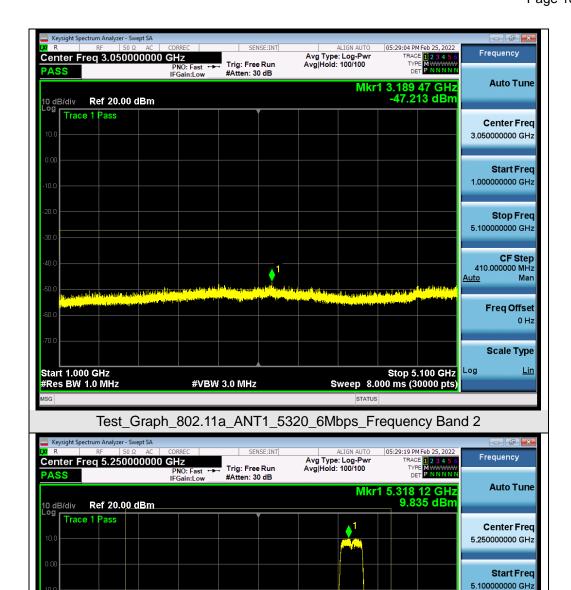
> **CF Step** 30.000000 MHz <u>o</u> Man

> > Freq Offset 0 Hz

Scale Type

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)





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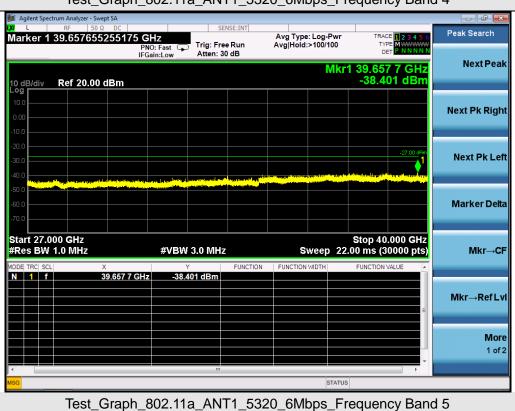
Test_Graph_802.11a_ANT1_5320_6Mbps_Frequency Band 3

#VBW 3.0 MHz

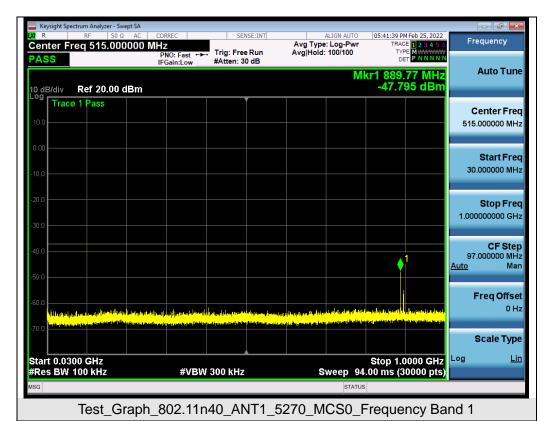
Start 5.1000 GHz #Res BW 1.0 MHz









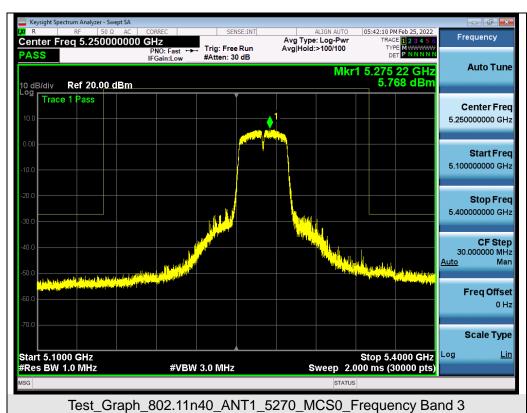




Test_Graph_802.11n40_ANT1_5270_MCS0_Frequency Band 2

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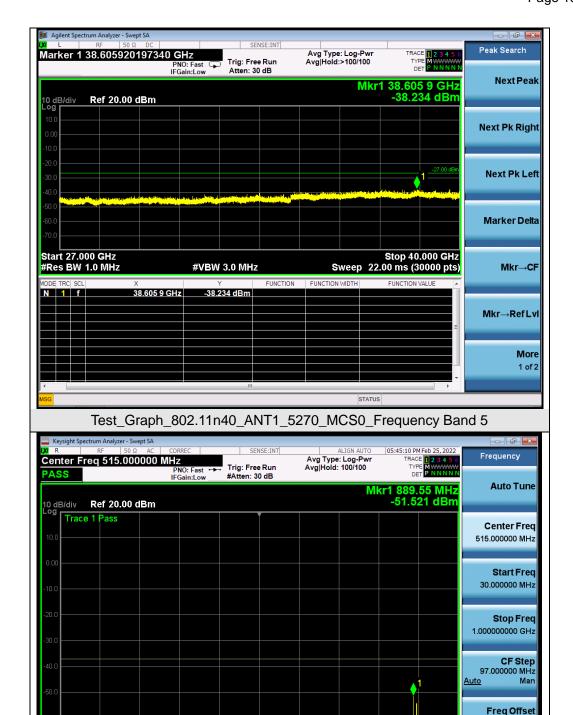


0 Hz

Scale Type

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)





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Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 1

#VBW 300 kHz

Start 0.0300 GHz #Res BW 100 kHz

5 400000000 GHz

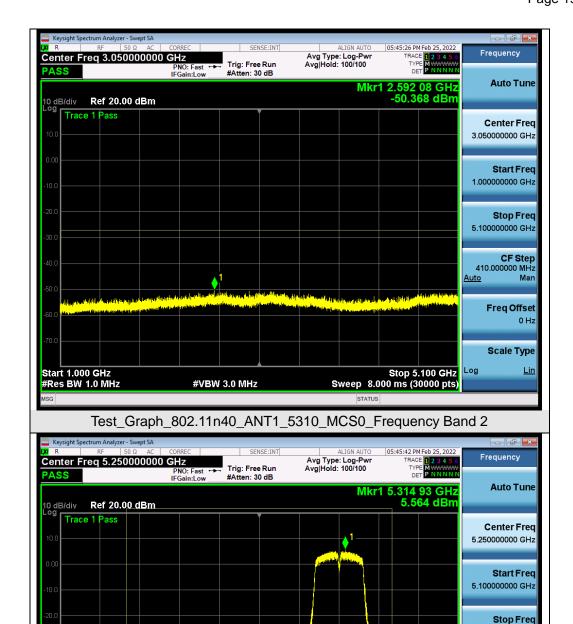
CF Step 30.000000 MHz <u>o</u> Man

> Freq Offset 0 Hz

Scale Type

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)





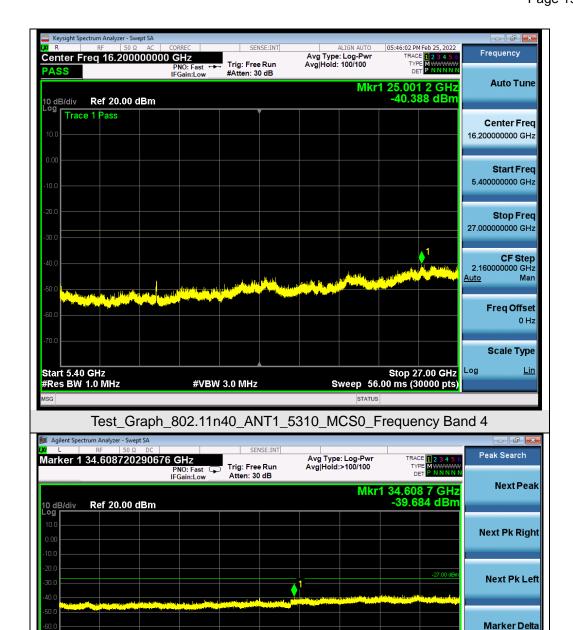
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 3

#VBW 3.0 MHz

Start 5.1000 GHz #Res BW 1.0 MHz





Stop 40.000 GHz Sweep 22.00 ms (30000 pts)

Mkr→CF

Mkr→RefLvI

More 1 of 2

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#VBW 3.0 MHz

-39.684 dBm

34.608 7 GHz

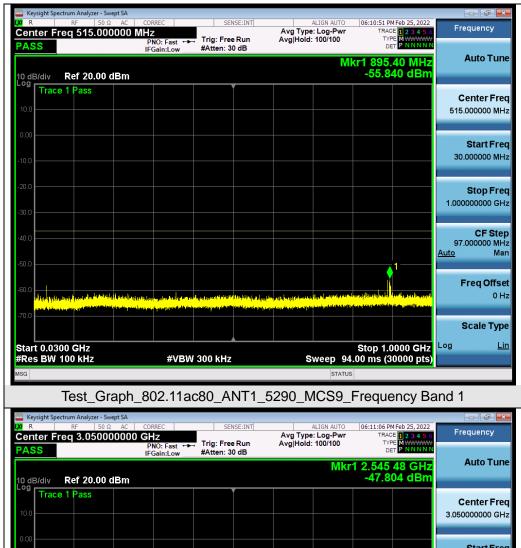
FUNCTION

Test_Graph_802.11n40_ANT1_5310_MCS0_Frequency Band 5

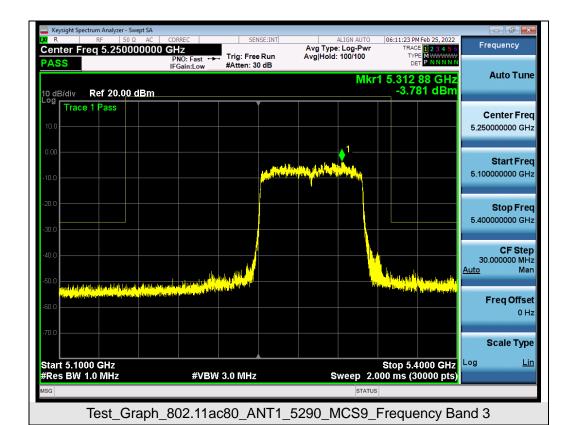
FUNCTION WIDT

Start 27.000 GHz #Res BW 1.0 MHz









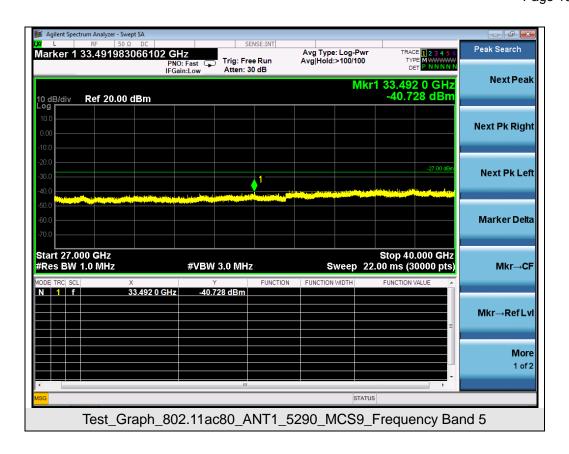


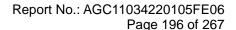


Test_Graph_802.11ac80_ANT1_5290_MCS9_Frequency Band 4

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.

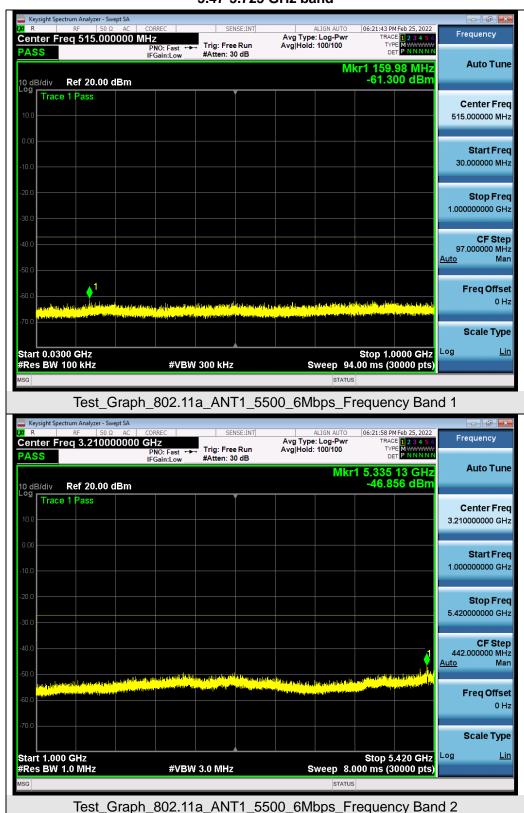






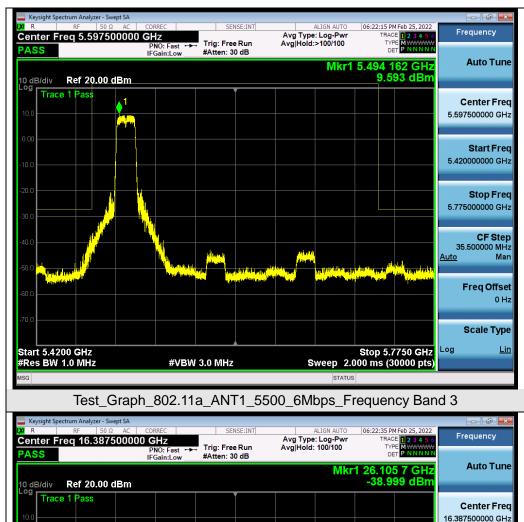


Test Graphs of Spurious Emissions outside of the 5.47-5.725 GHz band for transmitters operating in the 5.47-5.725 GHz band



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Stop Freq

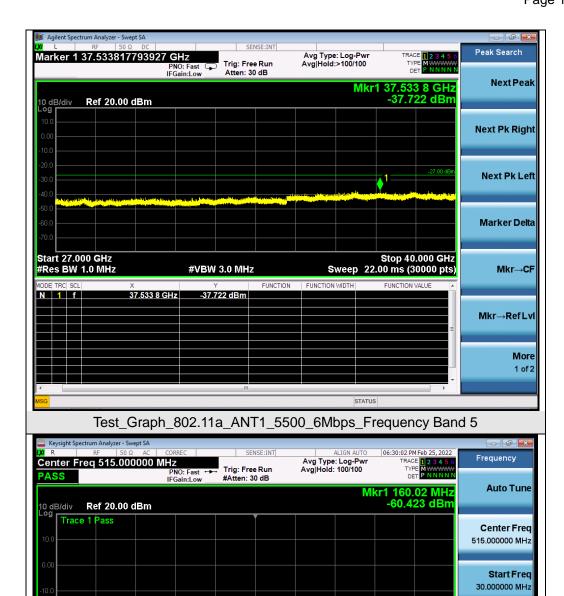
CF Step 97.000000 MHz <u>o</u> Man

> Freq Offset 0 Hz

Scale Type

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)





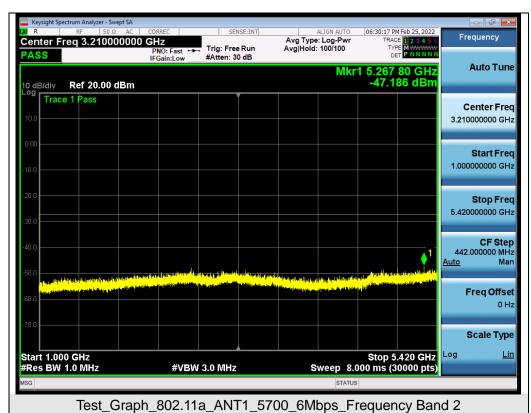
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

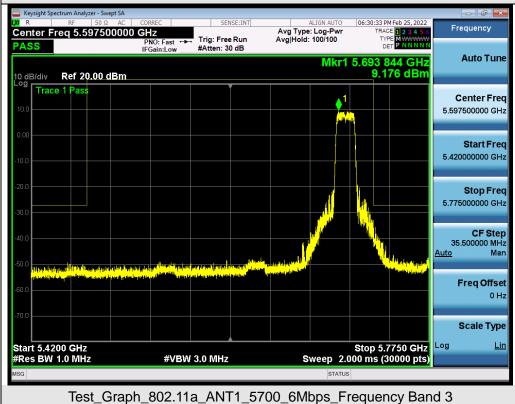
Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 1

#VBW 300 kHz

Start 0.0300 GHz #Res BW 100 kHz



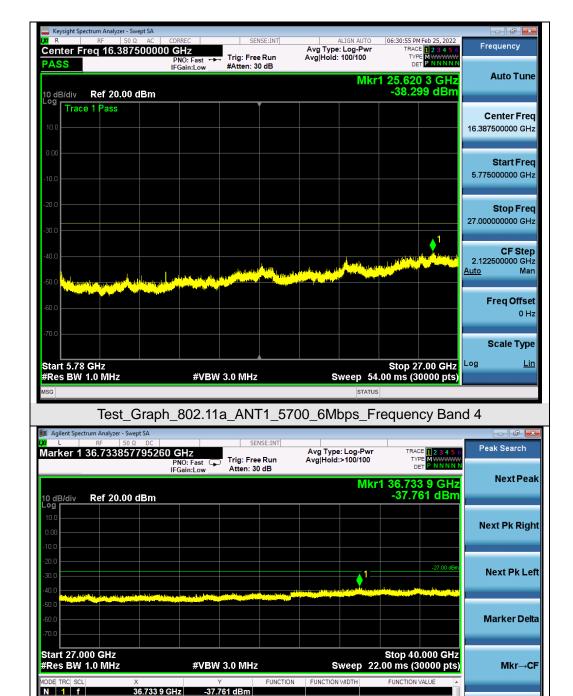




Mkr→RefLvI

More 1 of 2

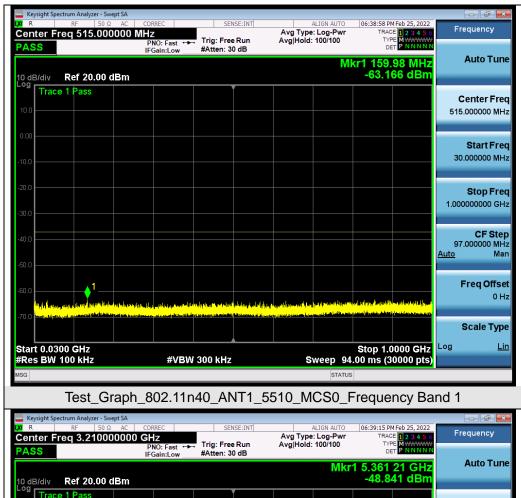


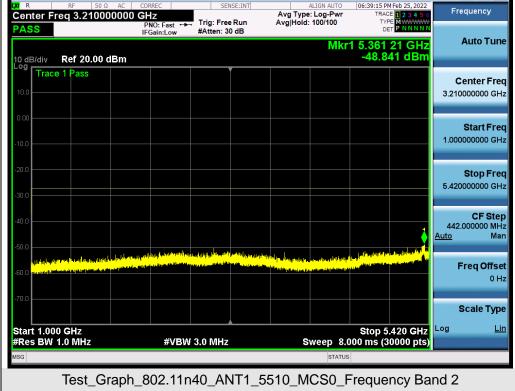


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

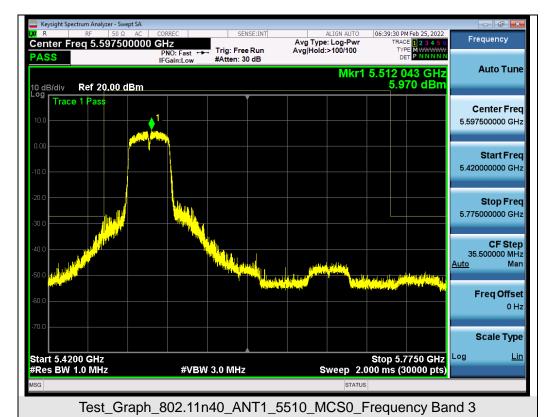
Test_Graph_802.11a_ANT1_5700_6Mbps_Frequency Band 5













Stop Freq

CF Step 97.000000 MHz <u>o</u> Man

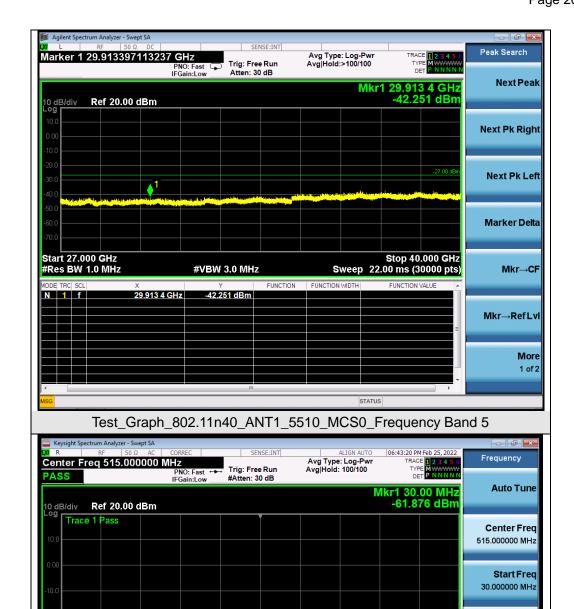
> Freq Offset 0 Hz

Scale Type

Log

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)





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Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 1

#VBW 300 kHz

Start 0.0300 GHz #Res BW 100 kHz

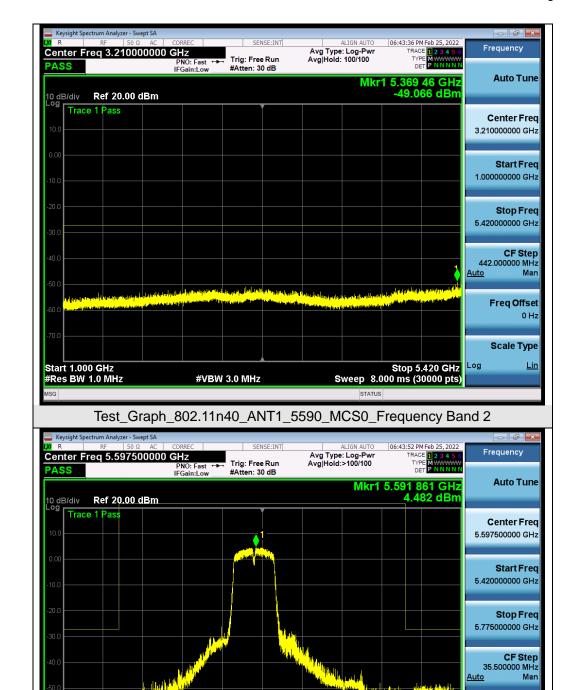
Freq Offset 0 Hz

Scale Type

Log

Stop 5.7750 GHz Sweep 2.000 ms (30000 pts)





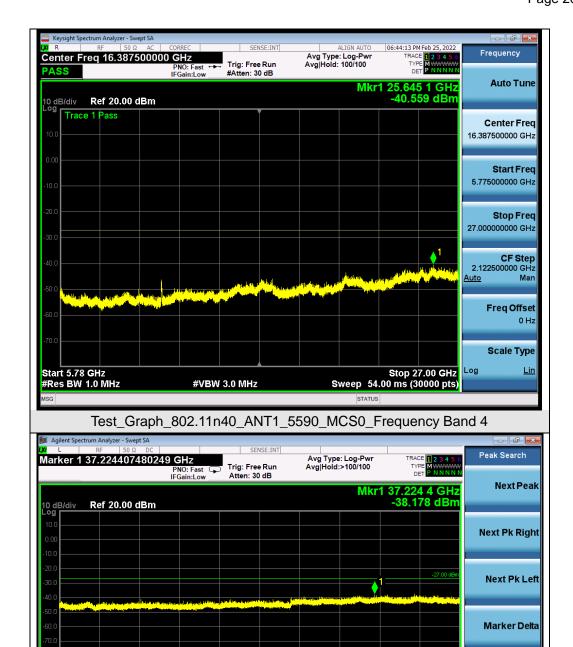
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 3

#VBW 3.0 MHz

Start 5.4200 GHz #Res BW 1.0 MHz





Stop 40.000 GHz Sweep 22.00 ms (30000 pts)

Mkr→CF

Mkr→RefLvI

More 1 of 2

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#VBW 3.0 MHz

-38.178 dBm

37.224 4 GHz

FUNCTION

Test_Graph_802.11n40_ANT1_5590_MCS0_Frequency Band 5

FUNCTION WIDT

Start 27.000 GHz #Res BW 1.0 MHz

CF Step 442.000000 MHz <u>tto</u> Man

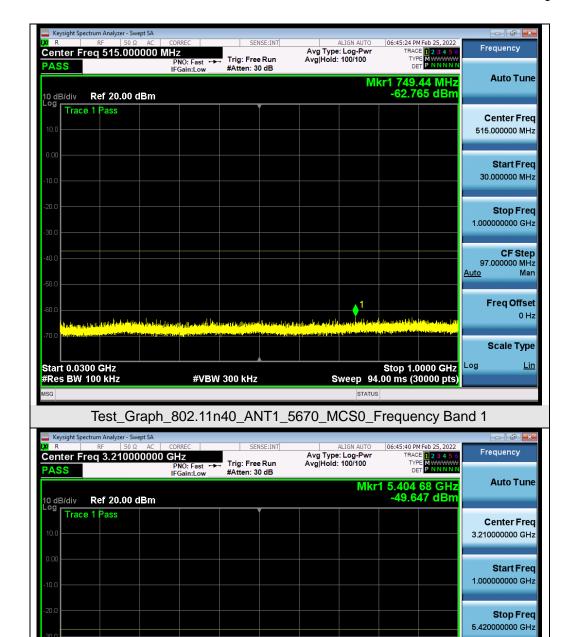
> Freq Offset 0 Hz

Scale Type

Log

Stop 5.420 GHz Sweep 8.000 ms (30000 pts)





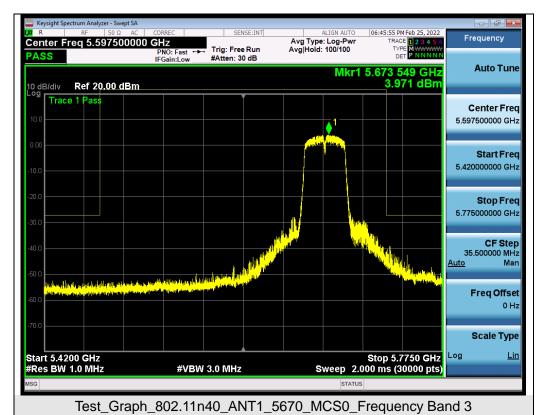
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test_Graph_802.11n40_ANT1_5670_MCS0_Frequency Band 2

#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz







Man

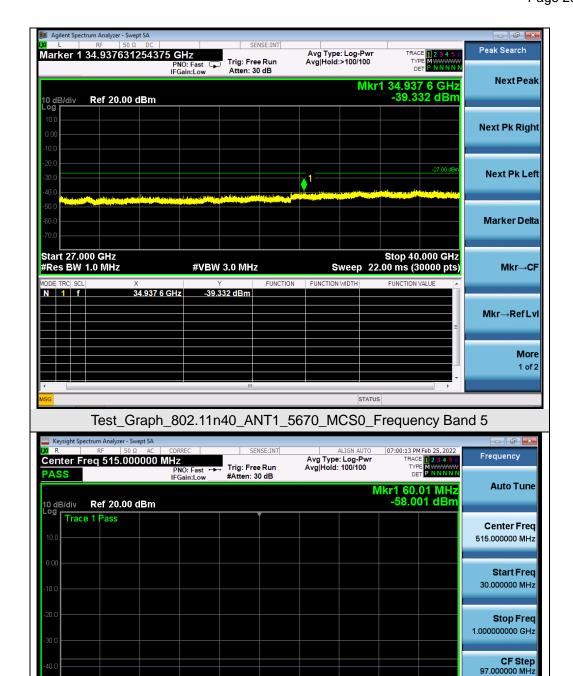
Freq Offset 0 Hz

Scale Type

Log

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)





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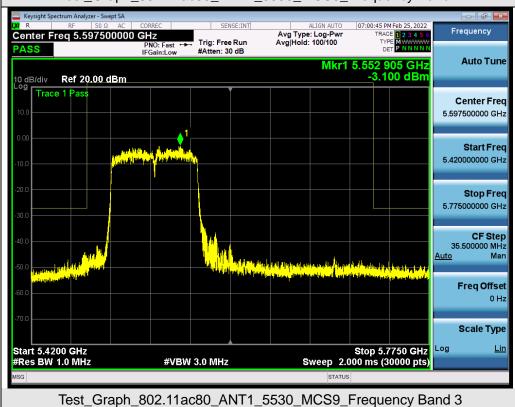
Test_Graph_802.11ac80_ANT1_5530_MCS9_Frequency Band 1

#VBW 300 kHz

Start 0.0300 GHz #Res BW 100 kHz

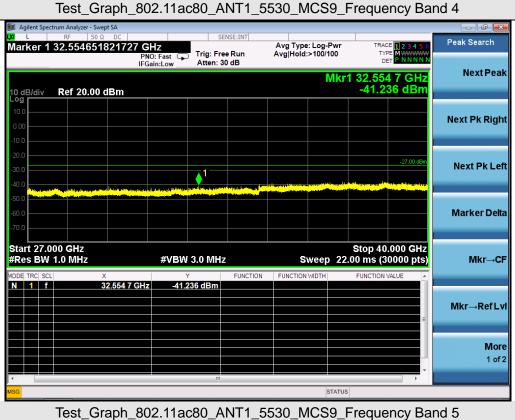


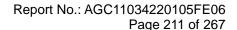




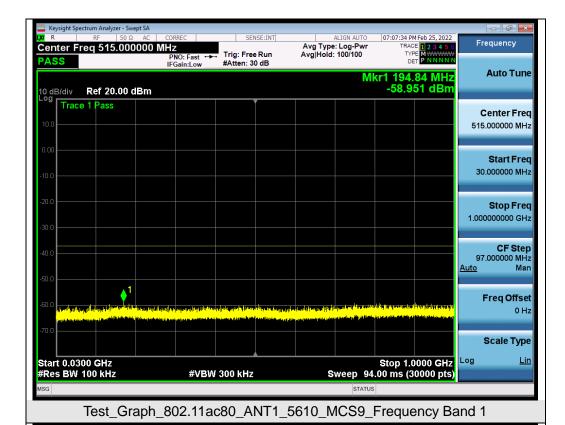










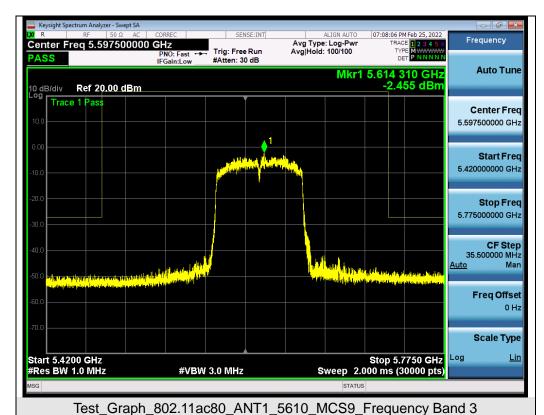




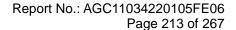
Test_Graph_802.11ac80_ANT1_5610_MCS9_Frequency Band 2

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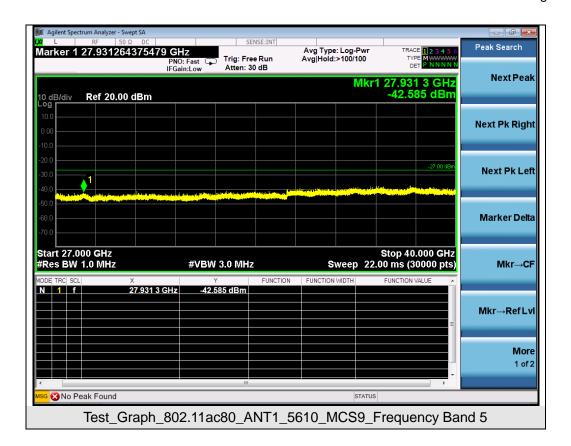


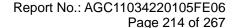






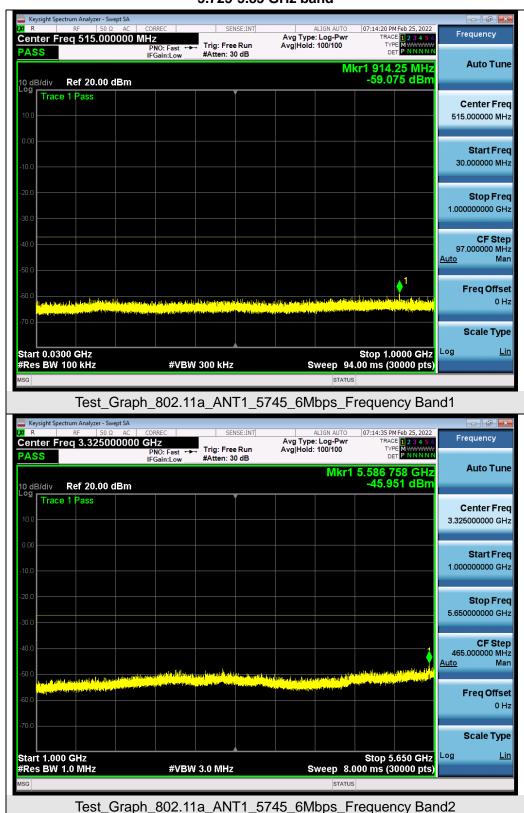








Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band



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5.925000000 GHz

CF Step 2.107500000 GHz

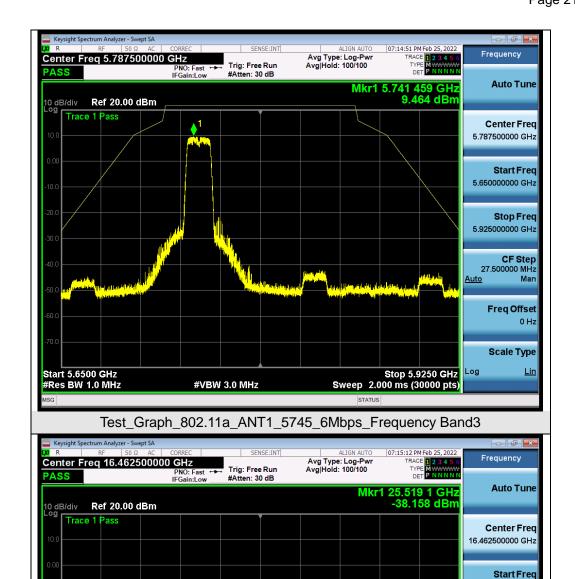
Freq Offset 0 Hz

Scale Type

Log

Stop Freq 27 000000000 GHz





Start 5.93 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 54.00 ms (30000 pts) **#VBW 3.0 MHz** Test_Graph_802.11a_ANT1_5745_6Mbps_Frequency Band4

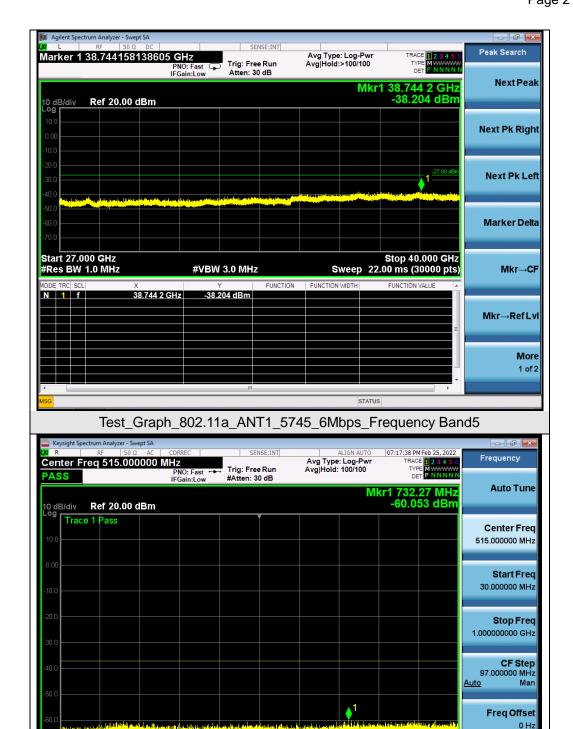
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Scale Type

Log

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)





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Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band1

#VBW 300 kHz

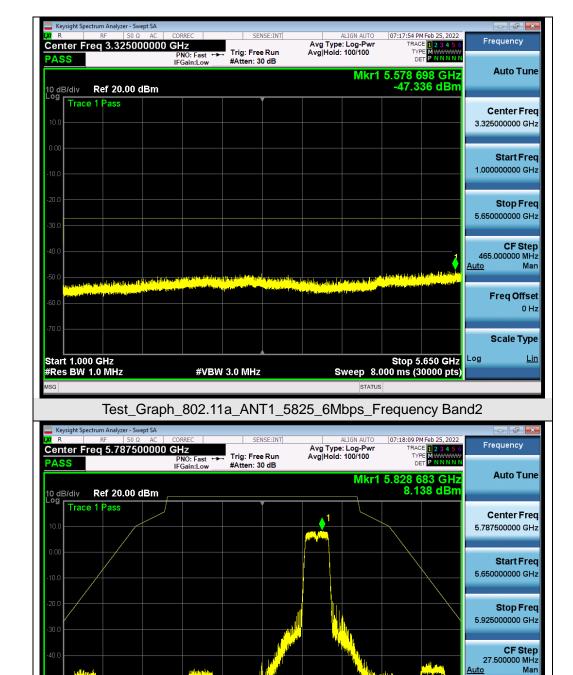
Start 0.0300 GHz #Res BW 100 kHz

Freq Offset 0 Hz

Scale Type

Stop 5.9250 GHz Sweep 2.000 ms (30000 pts)





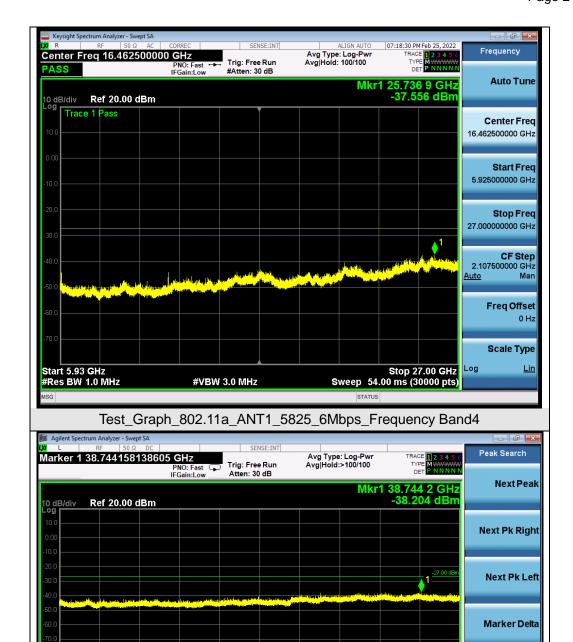
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band3

#VBW 3.0 MHz

Start 5.6500 GHz #Res BW 1.0 MHz





Stop 40.000 GHz Sweep 22.00 ms (30000 pts)

Mkr→CF

Mkr→RefLvI

More 1 of 2

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#VBW 3.0 MHz

-38.204 dBm

38.744 2 GHz

FUNCTION

Test_Graph_802.11a_ANT1_5825_6Mbps_Frequency Band5

FUNCTION WIDT

Start 27.000 GHz #Res BW 1.0 MHz

CF Step 465.000000 MHz <u>tto</u> Man

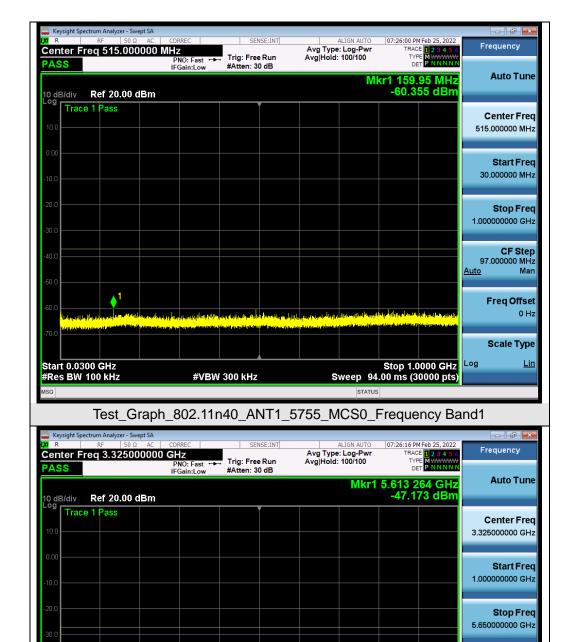
> Freq Offset 0 Hz

Scale Type

Log

Stop 5.650 GHz Sweep 8.000 ms (30000 pts)





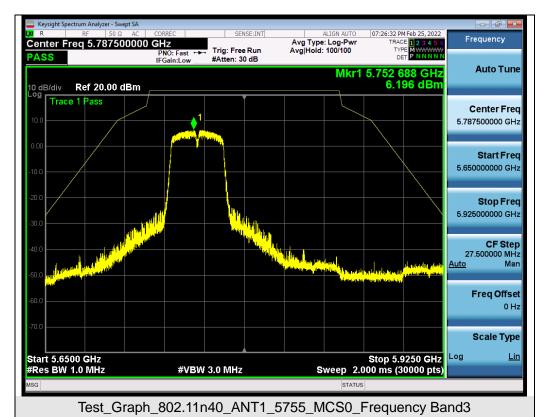
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band2

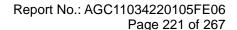
#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz





07:26:52 PM Feb 25, 2022 Avg Type: Log-Pwi Avg|Hold: 100/100 TRACE 1 2
TYPE MW Center Freq 16.462500000 GHz Trig: Free Run **Auto Tune** Mkr1 25.065 3 GHz -39.130 dBm I0 dB/div Ref 20.00 dBm Trace 1 Pass Center Freq 16.462500000 GHz Start Freq 5.925000000 GHz Stop Freq 27 000000000 GHz CF Step 2.107500000 GHz Freq Offset 0 Hz Scale Type Start 5.93 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 54.00 ms (30000 pts) Log **#VBW 3.0 MHz** Test_Graph_802.11n40_ANT1_5755_MCS0_Frequency Band4



Stop Freq

CF Step 97.000000 MHz <u>o</u> Man

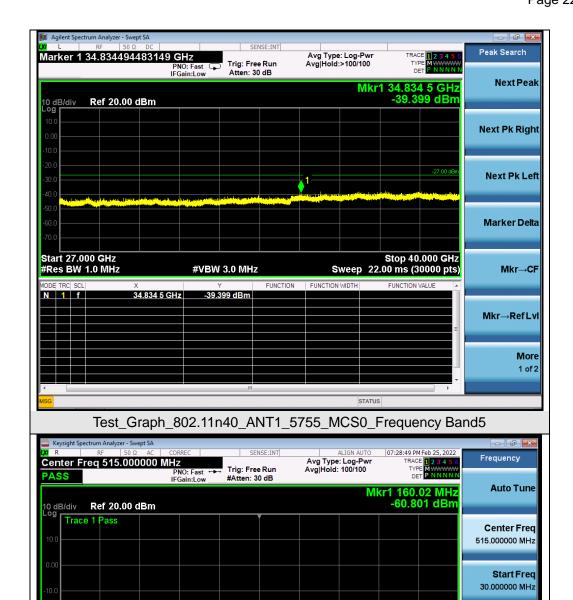
> Freq Offset 0 Hz

Scale Type

Log

Stop 1.0000 GHz Sweep 94.00 ms (30000 pts)



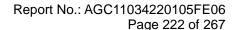


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the 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.

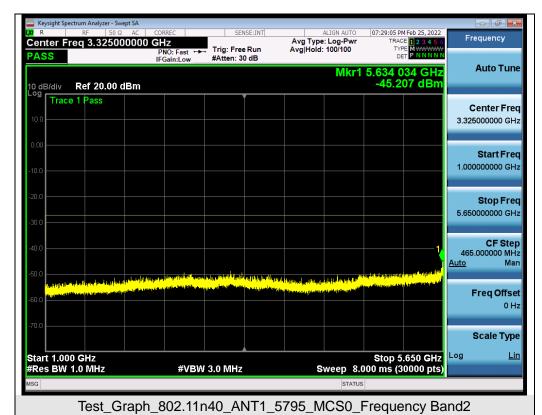
Test_Graph_802.11n40_ANT1_5795_MCS0_Frequency Band1

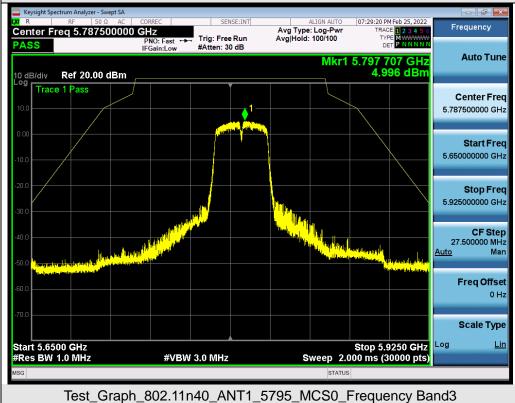
#VBW 300 kHz

Start 0.0300 GHz #Res BW 100 kHz



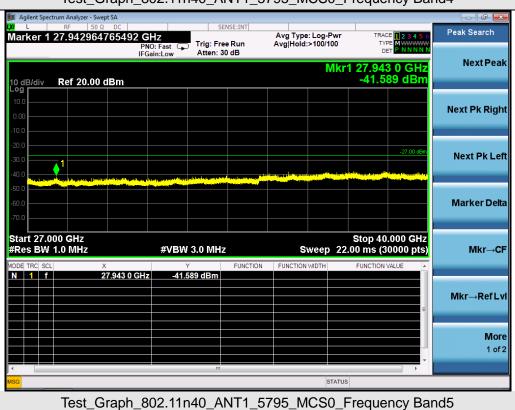


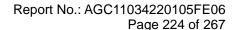




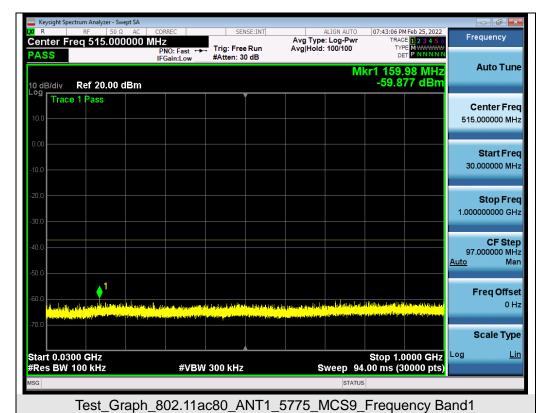






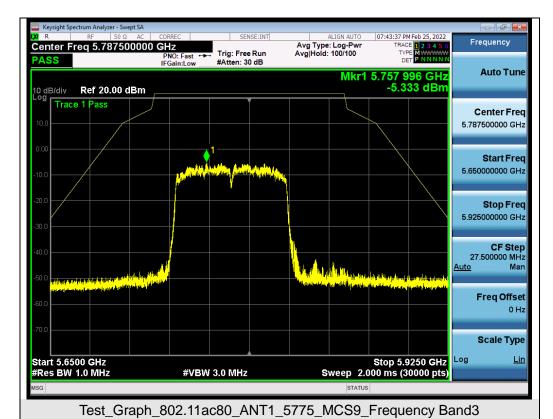






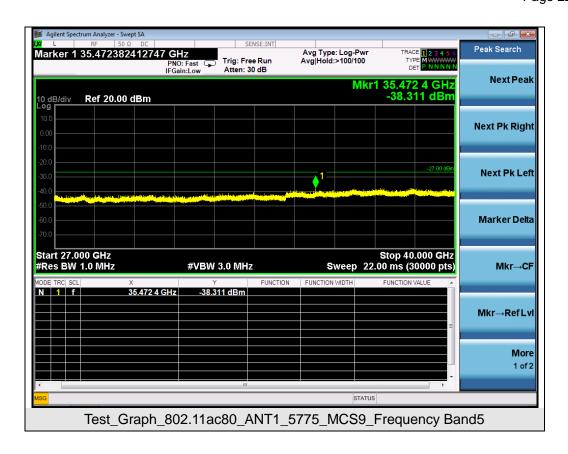






07:43:59 PM Feb 25, 2022 Avg Type: Log-Pwi Avg|Hold: 100/100 TRACE 1 2
TYPE MW
DET P N Center Freq 16.462500000 GHz Trig: Free Run **Auto Tune** Mkr1 25.954 6 GHz -37.795 dBm I0 dB/div Ref 20.00 dBm Trace 1 Pass Center Freq 16.462500000 GHz Start Freq 5.925000000 GHz Stop Freq 27 000000000 GHz **CF Step** 2.107500000 GHz Freq Offset 0 Hz Scale Type Start 5.93 GHz #Res BW 1.0 MHz Stop 27.00 GHz Sweep 54.00 ms (30000 pts) Log **#VBW 3.0 MHz** Test_Graph_802.11ac80_ANT1_5775_MCS9_Frequency Band4







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11. RADIATED EMISSION

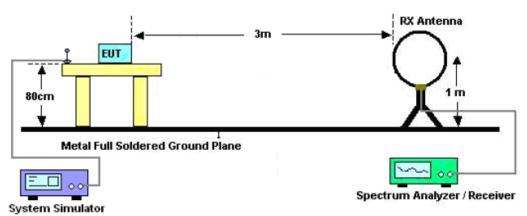
11.1. MEASUREMENT PROCEDURE

- 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.

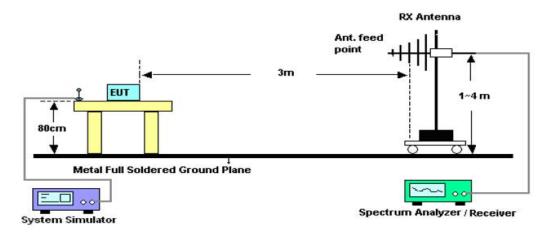


11.2. TEST SETUP

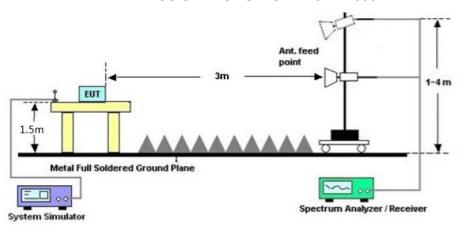
Radiated Emission Test-Setup Frequency Below 30MHz



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

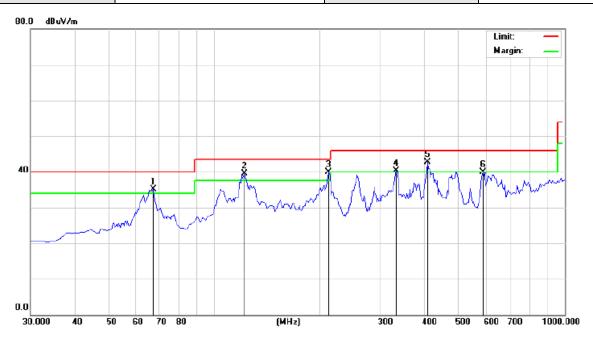
Radiated emission below 30MHz

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



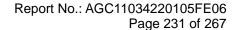
Radiated emission from 30MHz to 1000MHz

EUT	WiFi IP Camera	Model Name	RLC-410W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5300MHz	Antenna	Horizontal



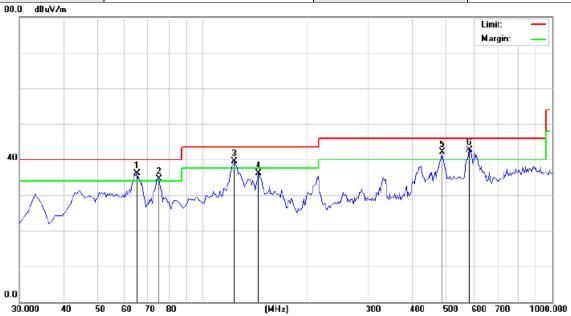
No.	Mk	c. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	İ	67.2022	23.23	11.93	35.16	40.00	-4.84	peak
2	İ	122.1500	26.64	12.93	39.57	43.50	-3.93	peak
3	İ	212.6833	32.03	7.91	39.94	43.50	-3.56	peak
4	İ	332.3167	23.12	17.16	40.28	46.00	-5.72	peak
5	*	408.3000	24.44	18.29	42.73	46.00	-3.27	peak
6		586.1332	23.30	16.54	39.84	46.00	-6.16	peak

RESULT: PASS





EUT	WiFi IP Camera	Model Name	RLC-410W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5300MHz	Antenna	Vertical



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	İ	64.8865	24.11	11.99	36.10	40.00	-3.90	peak
2	İ	75.2667	23.60	10.97	34.57	40.00	-5.43	peak
3	İ	123.7667	26.49	13.02	39.51	43.50	-3.99	peak
4		144.7833	23.46	12.74	36.20	43.50	-7.30	peak
5	İ	485.9000	25.48	16.57	42.05	46.00	-3.95	peak
6	*	582.9000	23.32	19.44	42.76	46.00	-3.24	peak

Note: All test channels had been tested. The 802.11a20 at 5300MHz of antenna 1 is the worst case and 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.



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Radiated emission above 1GHz

EUT	WiFi IP Camera	Model Name	E1 Outdoor
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	46.23	9.14	55.37	68.20	-12.83	peak
15540.063	40.27	10.22	50.49	74.00	-23.51	peak
15540.063	31.66	10.22	41.88	54.00	-12.12	AVG
Remark:						
actor = Antenna Factor + Cable Loss – Pre-amplifier						

RADIATED EMISSION ABOVE 1GHZ-Vertical

• /	(- /	. , ,	dBμV/m)	(dB)	/alue Type
6.25	244				
0	9.14	55.39	68.20	-12.81	peak
2.15 1	0.22	52.37	74.00	-21.63	peak
2.07 1	0.22	42.29	54.00	-11.71	AVG



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EUT	WiFi IP Camera	Model Name	E1 Outdoor
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10400.042	47.51	9.14	56.65	68.20	-11.55	peak
15600.063	42.69	10.22	52.91	74.00	-21.09	peak
15600.063	32.55	10.22	42.77	54.00	-11.23	AVG
Remark:						
actor = 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)	value Type
10400.042	46.28	9.14	55.42	68.20	-12.78	peak
15600.063	42.16	10.22	52.38	74.00	-21.62	peak
15600.063	31.27	10.22	41.49	54.00	-12.51	AVG
Remark:						
actor = Antenna Factor + Cable Loss – Pre-amplifier.						



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EUT	WiFi IP Camera	Model Name	E1 Outdoor
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
10480.042	47.81	9.27	57.08	68.20	-11.12	peak	
15720.063	42.15	10.38	52.53	74.00	-21.47	peak	
15720.063	32.56	10.38	42.94	54.00	-11.06	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							

RADIATED EMISSION ABOVE 1GHZ-Vertical

Value Type	Margin	Limits	Emission Level	Factor	Meter Reading	Frequency	
value Type	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV)	(MHz)	
peak	-11.32	68.20	56.88	9.27	47.61	10480.042	
peak	-20.47	74.00	53.53	10.38	43.15	15720.063	
AVG	-10.54	54.00	43.46	10.38	33.08	15720.063	
Remark:							
_	-10.54	34.00			na Factor + Cabl	Remark:	



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EUT	Smart Touch Screen Terminal	Model Name	CM800
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
10520.044	48.56	9.29	57.85	68.20	-10.35	peak		
15780.066	43.52	10.42	53.94	74.00	-20.06	peak		
15780.066	33.87	10.42	44.29	54.00	-9.71	AVG		
Remark:								
=actor = Anter	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)	value Type		
10520.044	47.51	9.29	56.80	68.20	-11.40	peak		
15780.066	42.16	10.42	52.58	74.00	-21.42	peak		
15780.066	31.94	10.42	42.36	54.00	-11.64	AVG		
Remark:	Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.								



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EUT	Smart Touch Screen Terminal	Model Name	CM800
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
10600.044	47.61	9.31	56.92	74.00	-17.08	peak	
10600.044	38.51	9.31	47.82	54.00	-6.18	AVG	
15900.066	42.15	10.44	52.59	74.00	-21.41	peak	
15900.066	31.69	10.44	42.13	54.00	-11.87	AVG	
Remark:							
Factor = Anten	na Factor + Cab	le Loss – Pre-ai	mplifier.				

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
10600.044	47.52	9.31	56.83	74.00	-17.17	peak	
10600.044	37.94	9.31	47.25	54.00	-6.75	AVG	
15780.066	42.11	10.44	52.55	74.00	-21.45	peak	
15780.066	31.53	10.44	41.97	54.00	-12.03	AVG	
Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



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EUT	Smart Touch Screen Terminal	Model Name	CM800
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
10640.044	46.23	9.35	55.58	74.00	-18.42	peak	
10640.044	37.51	9.35	46.86	54.00	-7.14	AVG	
15960.066	41.09	10.46	51.55	74.00	-22.45	peak	
15960.066	30.57	10.46	41.03	54.00	-12.97	AVG	
Remark:							
actor = Anter	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)	value Type	
10640.044	47.98	9.35	57.33	74.00	-16.67	peak	
10640.044	38.12	9.35	47.47	54.00	-6.53	AVG	
15960.066	43.54	10.46	54.00	74.00	-20.00	peak	
15960.066	32.16	10.46	42.62	54.00	-11.38	AVG	
Remark:							
actor = Antenna Factor + Cable Loss – Pre-amplifier.							



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EUT	Smart Touch Screen Terminal	Model Name	CM800
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
11000.044	48.61	9.37	57.98	74.00	-16.02	peak		
11000.044	37.52	9.37	46.89	54.00	-7.11	AVG		
16500.066	41.16	10.48	51.64	68.20	-16.56	peak		
Remark:								
actor = Anter	actor = 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)	value Type		
11000.044	47.56	9.37	56.93	74.00	-17.07	peak		
11000.044	36.24	9.37	45.61	54.00	-8.39	AVG		
16500.066	42.15	10.48	52.63	68.20	-15.57	peak		
Remark:	Remark:							
Factor = Antenna Factor + Cable Loss – Pre-amplifier.								



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EUT	Smart Touch Screen Terminal	Model Name	CM800
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
11200.044	48.52	9.38	57.90	74.00	-16.10	peak	
11200.044	39.64	9.38	49.02	54.00	-4.98	AVG	
16800.066	41.03	10.49	51.52	68.20	-16.68	peak	
Remark:							
actor = 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)	value Type		
11200.044	47.51	9.38	56.89	74.00	-17.11	peak		
11200.044	39.51	9.38	48.89	54.00	-5.11	AVG		
16800.066	42.16	10.49	52.65	68.20	-15.55	peak		
Remark:	Remark:							
Factor = Anter	actor = Antenna Factor + Cable Loss – Pre-amplifier.							



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EUT	Smart Touch Screen Terminal	Model Name	CM800
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
11400.044	48.51	9.39	57.90	74.00	-16.10	peak		
11400.044	38.61	9.39	48.00	54.00	-6.00	AVG		
17100.066	43.25	10.49	53.74	68.20	-14.46	peak		
Remark:								
actor = Anten	actor = 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)	value Type		
11400.044	47.52	9.39	56.91	74.00	-17.09	peak		
11400.044	38.64	9.39	48.03	54.00	-5.97	AVG		
17100.066	43.12	10.49	53.61	68.20	-14.59	peak		
Remark:	emark:							
actor = Antenna Factor + Cable Loss – Pre-amplifier.								



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EUT	WiFi IP Camera	Model Name	E1 Outdoor
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type		
11490.042	46.26	9.42	55.68	74.00	-18.32	peak		
11490.042	37.61	9.42	47.03	54.00	-6.97	AVG		
17235.063	41.25	10.51	51.76	68.20	-16.44	peak		
Remark:	Remark:							
Factor = Anter	actor = 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)	value Type		
11490.042	46.25	9.42	55.67	74.00	-18.33	peak		
11490.042	36.34	9.42	45.76	54.00	-8.24	AVG		
17235.063	41.25	10.51	51.76	68.20	-16.44	peak		
Remark:	Remark:							
Factor = Anten	Factor = Antenna Factor + Cable Loss – Pre-amplifier.							



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EUT	WiFi IP Camera	Model Name	E1 Outdoor
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11570.042	47.61	9.42	57.03	74.00	-16.97	peak
11570.042	36.52	9.42	45.94	54.00	-8.06	AVG
17355.063	42.19	10.51	52.70	68.20	-15.50	peak
Remark:						
Factor = Anter	nna Factor + Cabl	e Loss – Pre-	amplifier.			

RADIATED EMISSION ABOVE 1GHZ-Vertical

					Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11570.042	47.52	9.42	56.94	74.00	-17.06	peak
11570.042	36.27	9.42	45.69	54.00	-8.31	AVG
17355.063	42.16	10.51	52.67	68.20	-15.53	peak



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EUT	WiFi IP Camera	Model Name	E1 Outdoor
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

(dBµV)	(dB)	(dBuV/m)	(-ID: -) //)	4.1=3	 Value Type
	` '	(αυμν/ιιι)	(dBµV/m)	(dB)	
47.52	9.62	52.98	74.00	-21.02	peak
38.61	9.62	45.05	54.00	-8.95	AVG
42.15	10.75	47.61	68.20	-26.39	peak
	38.61	38.61 9.62	38.61 9.62 45.05	38.61 9.62 45.05 54.00	38.61 9.62 45.05 54.00 -8.95

RADIATED EMISSION ABOVE 1GHZ-Vertical

(MHz)	(dBµV)	(-ID)				Value Type
	(αυμν)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
11650.042	46.23	9.62	53.55	74.00	-20.45	peak
11650.042	36.24	9.62	47.64	54.00	-6.36	AVG
17475.063	41.28	10.75	48.61	68.20	-25.39	peak

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= Limit-Level.

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



Test result for band edge emission at restricted bands

EUT	WiFi IP Camera	Model Name	RLC-410W
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



EUT	WiFi IP Camera	Model Name	RLC-410W
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



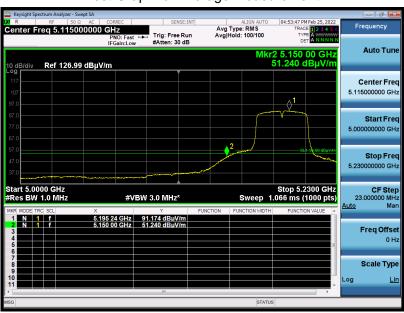


EUT	WiFi IP Camera	Model Name	RLC-410W
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement





EUT	WiFi IP Camera	Model Name	RLC-410W
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

