Report No.: AGC10648210402FE05 Page 38 of 89

Man

Freq Offset 0 Hz

Scale Type

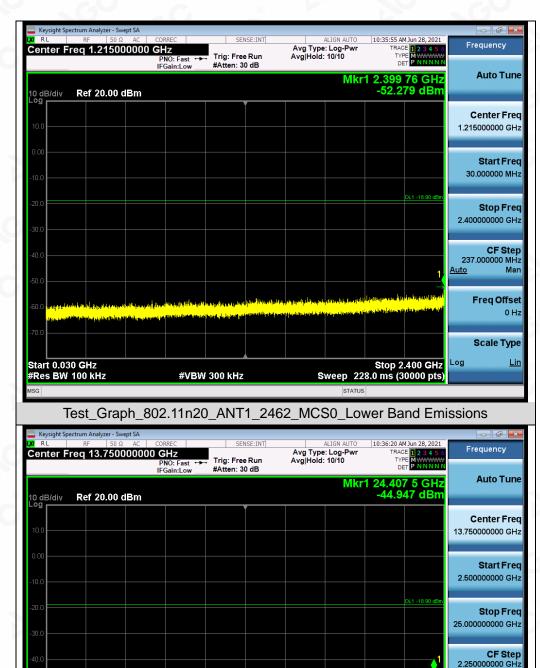
Lin

Auto

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts)





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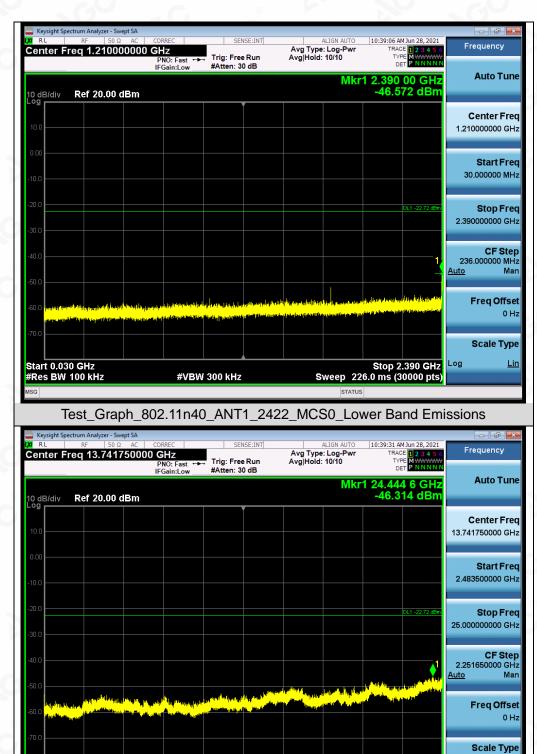
Test_Graph_802.11n20_ANT1_2462_MCS0_Higher Band Emissions

#VBW 300 kHz

Start 2.50 GHz #Res BW 100 kHz

Report No.: AGC10648210402FE05 Page 39 of 89





Test_Graph_802.11n40_ANT1_2422_MCS0_Higher Band Emissions

Stop 25.00 GHz Sweep 2.152 s (30000 pts)

Log

Lin

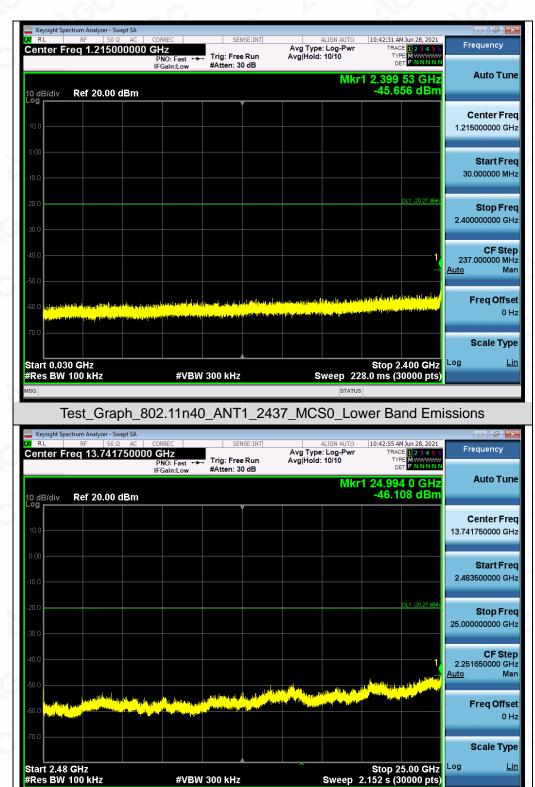
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#VBW 300 kHz

Start 2.48 GHz #Res BW 100 kHz

Report No.: AGC10648210402FE05 Page 40 of 89





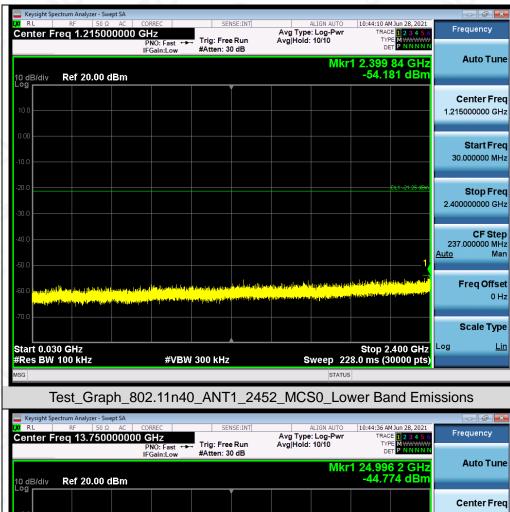
Test_Graph_802.11n40_ANT1_2437_MCS0_Higher Band Emissions

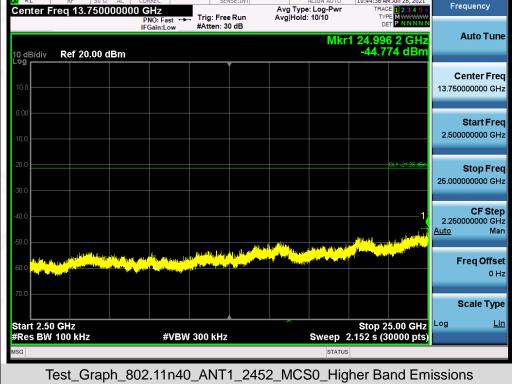
Compliance Sting/Inspection Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the Any report having not been signed by authorized approver, or having been altered without authorization, or having not been signed by authorization of AGC. The test results 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 are a signed by AGC should be submitted to AGC within 15day after the issuance of the test report. The test results Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

#VBW 300 kHz

Report No.: AGC10648210402FE05 Page 41 of 89







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Freq Offset 0 Hz

Scale Type

Lin

Log



Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands

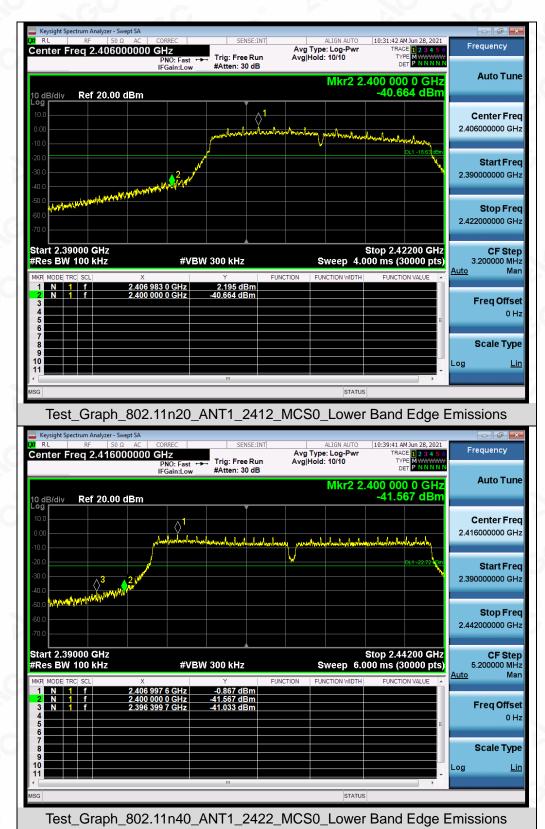
AGC

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Test_Graph_802.11g_ANT1_2412_6Mbps_Lower Band Edge Emissions

Report No.: AGC10648210402FE05 Page 43 of 89





Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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10. MAXIMUM CONDUCTED OUTPUT POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

- (1). Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- (2). Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- (3). Set SPA Trace 1 Max hold, then View.

Note: The method of PKPSD in the ANSI C63.10 (2013) item 11.10 was used in this testing.

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer to Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

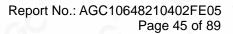
Refer to Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

	Test Data of Conducted Output Power Spectral Density								
Test Mode	Test Channel (MHz)	Power density (dBm/20kHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Pass or Fail				
	2412	0.320	-7.919	\$8	Pass ©				
802.11b	2437	0.946	-7.293	\$8	Pass				
	2462	0.253	-7.986	\$8	Pass				
	2412	-2.188	-10.427	\$8	Pass				
802.11g	2437	-3.496	-11.735	\$8	Pass				
	2462	-3.453	-11.692	\$8	Pass				
0.5	2412	-4.155	-12.394	\$8	Pass				
802.11n20	2437	-3.895	-12.134	\$8	Pass				
	2462	-4.157	-12.396	\$8	Pass				
<i>c.</i> C	2422	-7.696	-15.935	\$8	Pass				
802.11n40	2437	-4.544	-12.783	\$8	Pass				
	2452	-5.961	-14.2	\$8	Pass				

Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10*log(20/3).

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Test Graphs of Conducted Output Power Spectral Density



Test_Graph_802.11b_ANT1_2412_1Mbps_PSD

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Report No.: AGC10648210402FE05 Page 46 of 89





Center Freq 2.412000000 GHz PNO: Fast 10:22:40 AM Jun 28, 2021 Avg Type: Log-Pw Avg|Hold: 100/100 Frequency Trig: Free Run #Atten: 30 dB TYF IFGai **Auto Tune** Mkr1 2.410 108 GHz -2.188 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.412000000 GHz www.www.www. Start Freq Man A ALAAM 2.400261000 GHz Stop Freq 2.423739000 GHz CF Step 2.347800 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.41200 GHz #Res BW 20 kHz Span 23.48 MHz Log Sweep 56.01 ms (1000 pts) Lin #VBW 62 kHz Test_Graph_802.11g_ANT1_2412_6Mbps_PSD

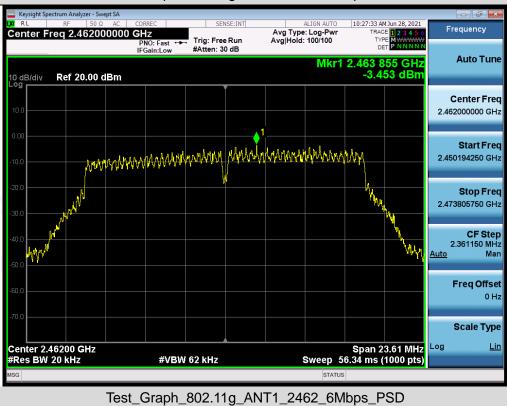
Test_Graph_802.11b_ANT1_2462_1Mbps_PSD

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Report No.: AGC10648210402FE05 Page 47 of 89





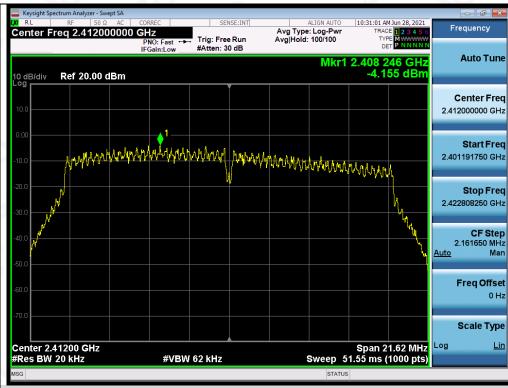


Test_Graph_802.11g_ANT1_2437_6Mbps_PSD

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Report No.: AGC10648210402FE05 Page 48 of 89





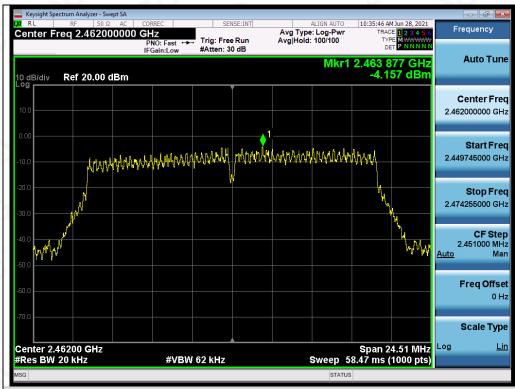
34:19 AM Jun 28, 2021 Avg Type: Log-Pw Avg|Hold: 100/100 Frequency Center Freq 2.437000000 GHz Trig: Free Run #Atten: 30 dB TYF PNO: Fast IFGai **Auto Tune** Mkr1 2.435 741 GHz -3.895 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.437000000 GHz La La Mar Start Freq 2.425464250 GHz Stop Freq 2.448535750 GHz CF Step 2.307150 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.43700 GHz #Res BW 20 kHz Span 23.07 MHz Log Sweep 55.01 ms (1000 pts) Lin #VBW 62 kHz Test_Graph_802.11n20_ANT1_2437_MCS0_PSD

Test_Graph_802.11n20_ANT1_2412_MCS0_PSD

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Report No.: AGC10648210402FE05 Page 49 of 89





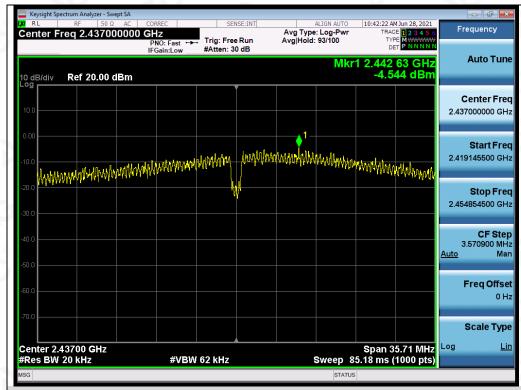
AM Jun 28, 2021 Avg Type: Log-Pw Avg|Hold: 60/100 Frequency Center Freq 2.422000000 GHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGai **Auto Tune** Mkr1 2.409 48 GHz -7.696 dBm 0 dB/div Ref 20.00 dBm Center Freq 2.422000000 GHz Start Freq 2.394760000 GHz Stop Freq 2.449240000 GHz CF Step 5.448000 MHz Mar Auto **Freq Offset** 0 Hz Scale Type Center 2.42200 GHz #Res BW 20 kHz Span 54.48 MHz Log Sweep 129.9 ms (1000 pts) Lin #VBW 62 kHz Test_Graph_802.11n40_ANT1_2422_MCS0_PSD

Test_Graph_802.11n20_ANT1_2462_MCS0_PSD

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Report No.: AGC10648210402FE05 Page 50 of 89





Test_Graph_802.11n40_ANT1_2437_MCS0_PSD



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11. RADIATED EMISSION

11.1. MEASUREMENT PROCEDURE

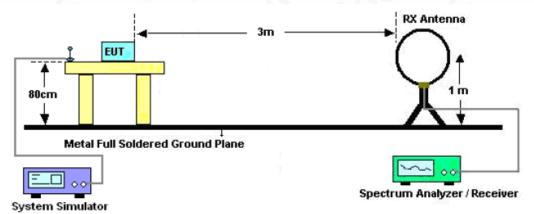
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated 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 3MHz 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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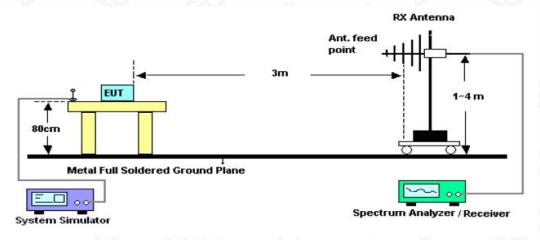


11.2. TEST SETUP

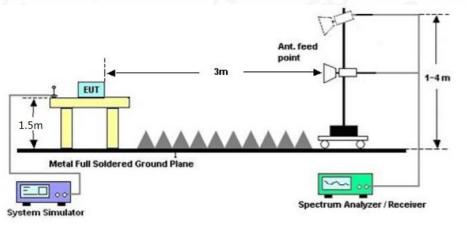
Radiated Emission Test-Setup Frequency Below 30MHz



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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EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

Radiated emission from 30MHz to 1000MHz

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	*	204.5999	29.30	8.64	37.94	43.50	-5.56	QP
2		266.6800	29.80	8.85	38.65	46.00	-7.35	peak
3		441.2798	14.70	13.98	28.68	46.00	-17.32	peak
4		647.8899	11.83	17.52	29.35	46.00	-16.65	peak
5		888.4500	12.35	21.44	33.79	46.00	-12.21	peak
6		984.4800	13.72	21.58	35.30	54.00	-18.70	peak

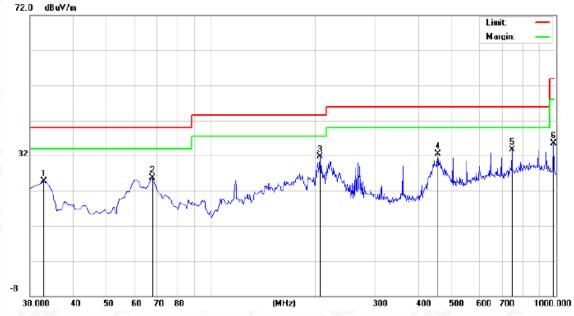
RESULT: PASS

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Report No.: AGC10648210402FE05 Page 55 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		32.9099	17.53	7.26	24.79	40.00	-15.21	peak
2		67.8299	13.63	12.06	25.69	40.00	-14.31	peak
3	*	207.5099	22.89	8.88	31.77	43.50	-11.73	peak
4		455.8299	16.78	15.66	32.44	46.00	-13.56	peak
5		744.8899	12.48	21.16	33.64	46.00	-12.36	peak
6		984.4800	13.68	21.73	35.41	54.00	-18.59	peak

RESULT: PASS

Note: 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b at low channel is the worst case and recorded in the report.

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Radiated emission above 1GHz

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
4824.000	56.28	0.08	56.36	74	-17.64	peak
4824.000	46.27	0.08	46.35	54	-7.65	AVG
7236.000	52.11	2.21	54.32	74	-19.68	peak
7236.000	41.67	2.21	43.88	54	-10.12	AVG
	CO C	ß			200	-C
emark:				[©]		

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

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2412MHz	Antenna	Vertical

	Factor	Emission Level	Limits	Margin	Volue Tree
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
56.29	0.08	56.37	74	-17.63	peak
45.37	0.08	45.45	54	-8.55	AVG
51.27	2.21	53.48	74	-20.52	peak
40.18	2.21	42.39	54	-11.61	AVG
	8	6			
-	56.29 45.37 51.27	56.29 0.08 45.37 0.08 51.27 2.21	56.290.0856.3745.370.0845.4551.272.2153.48	56.290.0856.377445.370.0845.455451.272.2153.4874	56.290.0856.3774-17.6345.370.0845.4554-8.5551.272.2153.4874-20.52

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

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Report No.: AGC10648210402FE05 Page 57 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
56.28	0.14	56.42	74	-17.58	peak
45.37	0.14	45.51	54	-8.49	AVG
51.89	2.36	54.25	74	-19.75	peak
40.62	2.36	42.98	54 💿	-11.02	AVG
	0		- CGC	°	8
	0				
	(dBµV) 56.28 45.37 51.89	(dBµV) (dB) 56.28 0.14 45.37 0.14 51.89 2.36	(dBµV) (dB) (dBµV/m) 56.28 0.14 56.42 45.37 0.14 45.51 51.89 2.36 54.25	(dBµV) (dB) (dBµV/m) (dBµV/m) 56.28 0.14 56.42 74 45.37 0.14 45.51 54 51.89 2.36 54.25 74	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 56.28 0.14 56.42 74 -17.58 45.37 0.14 45.51 54 -8.49 51.89 2.36 54.25 74 -19.75

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2437MHz	Antenna	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
4874.000	55.29	0.14	55.43	74	-18.57	peak
4874.000	46.38	0.14	46.52	54	-7.48	AVG
7311.000	50.27	2.36	52.63	74	-21.37	peak
7311.000	40.19	2.36	42.55	54	-11.45	AVG
0.5	6			90	C	6
emark:				NO.	6	5
actor = Anten	na Factor + Cable	Loss – Pre-a	amplifier.			

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Report No.: AGC10648210402FE05 Page 58 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
4924.000	55.38	0.22	55.6	74	-18.4	peak
4924.000	45.29	0.22	45.51	54	-8.49	AVG
7386.000	50.27	2.64	© 52.91	74	-21.09	peak
7386.000	41.68	2.64	44.32	54	-9.68	AVG
-0	8				8	
emark:						
actor = Anter	nna Factor + Cable	e Loss – Pre-	amplifier.			

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	58%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with date rate 1 2462MHz	Antenna	Vertical

(MHz)(dBµV)(dB)(dBµV/m)(dBµV/m)4924.00056.810.2257.03744924.00047.240.2247.46547386.00051.972.6454.61747386.00042.072.6444.7154	(dB)	Value Type
4924.00047.240.2247.46547386.00051.972.6454.6174		(S)
7386.000 51.97 2.64 54.61 74	-16.97	peak
	-6.54	AVG
7386.000 42.07 2.64 44.71 54	-19.39	peak
	-9.29	AVG

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

RESULT: PASS

Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

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

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.

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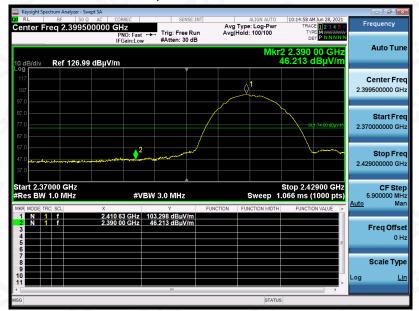


Report No.: AGC10648210402FE05 Page 59 of 89

Test result for band edge emission at restricted bands

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Report No.: AGC10648210402FE05 Page 60 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Report No.: AGC10648210402FE05 Page 61 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Report No.: AGC10648210402FE05 Page 62 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11b with data rate 1 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Report No.: AGC10648210402FE05 Page 63 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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Report No.: AGC10648210402FE05 Page 64 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2412MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Perturn/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 AGE". 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 15day after the issue of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



Report No.: AGC10648210402FE05 Page 65 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated restro/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 aphorization of AGE. 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 issuence of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc~cert.com.



Report No.: AGC10648210402FE05 Page 66 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11g with data rate 6 2462MHz	Antenna	Vertical

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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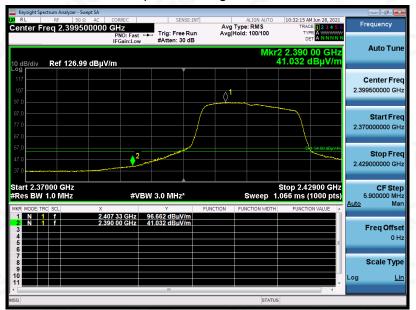
Report No.: AGC10648210402FE05 Page 67 of 89

EUT	Battery Camera	Model Name	Q3
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n20 with data rate 6.5 2412MHz	Antenna	Horizontal

Test Graph for Peak Measurement



Test Graph for Average Measurement



RESULT: PASS

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