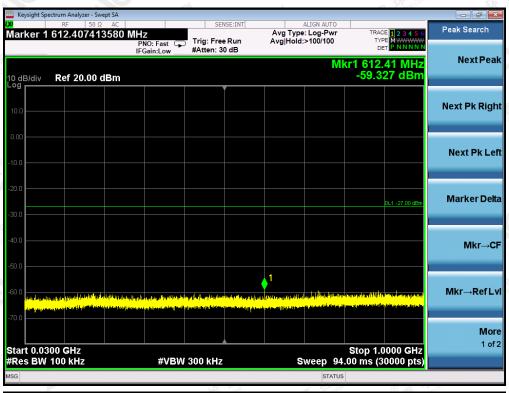
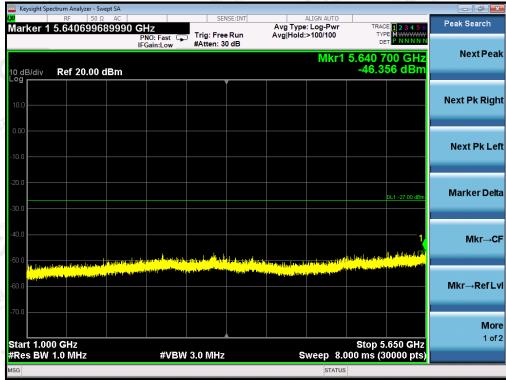


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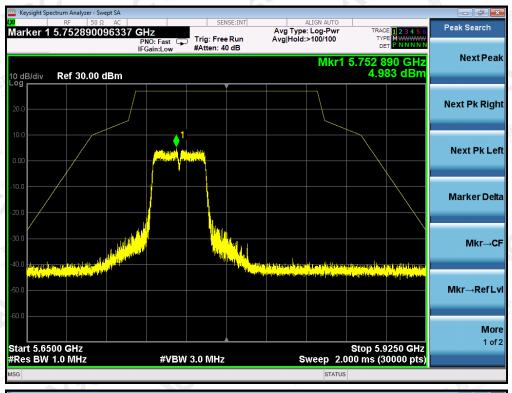
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5755MHz

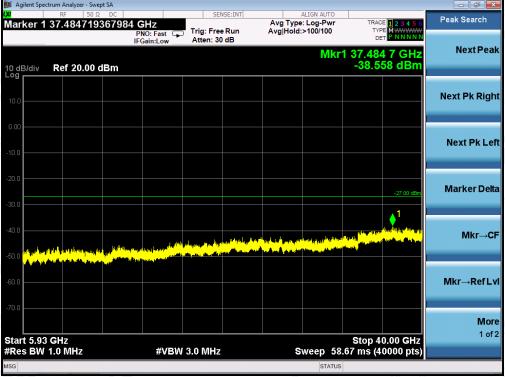




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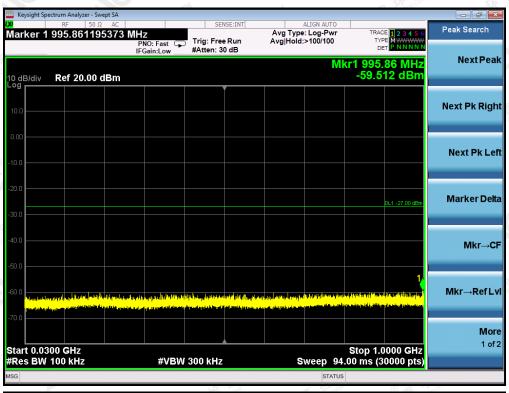




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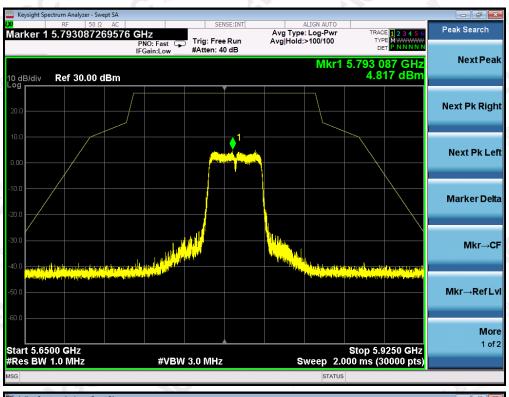
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M

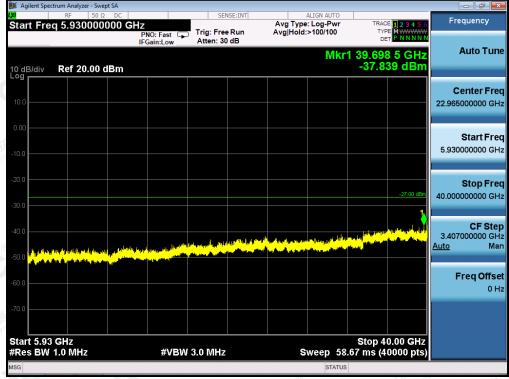




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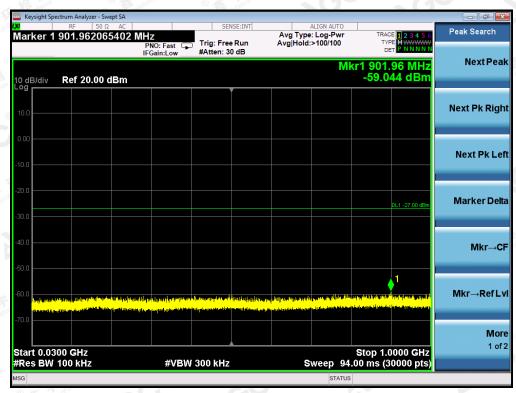


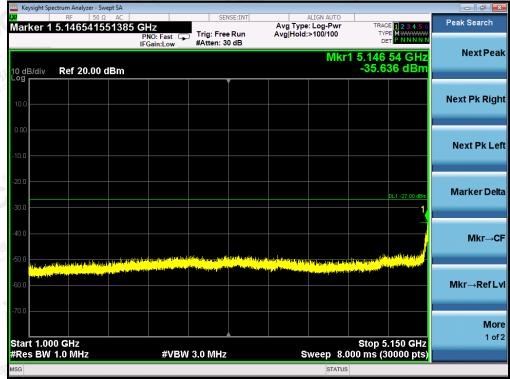
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FOR 802.11AC80 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5210MHz

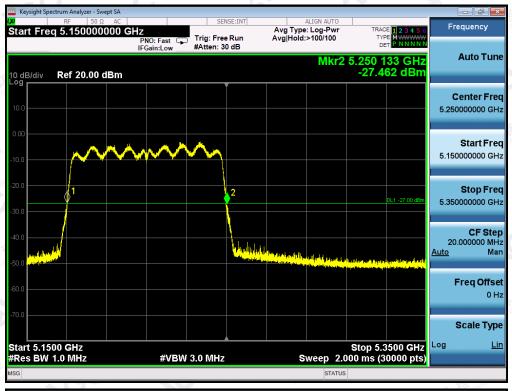


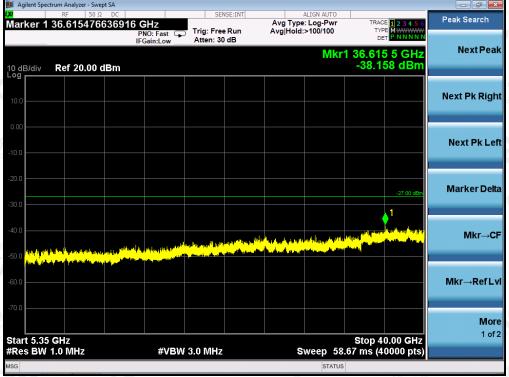


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Attestation of Global Compliance



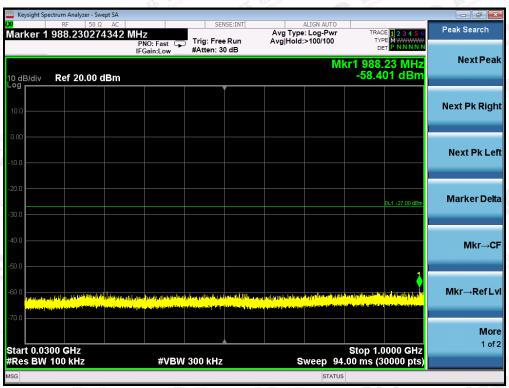




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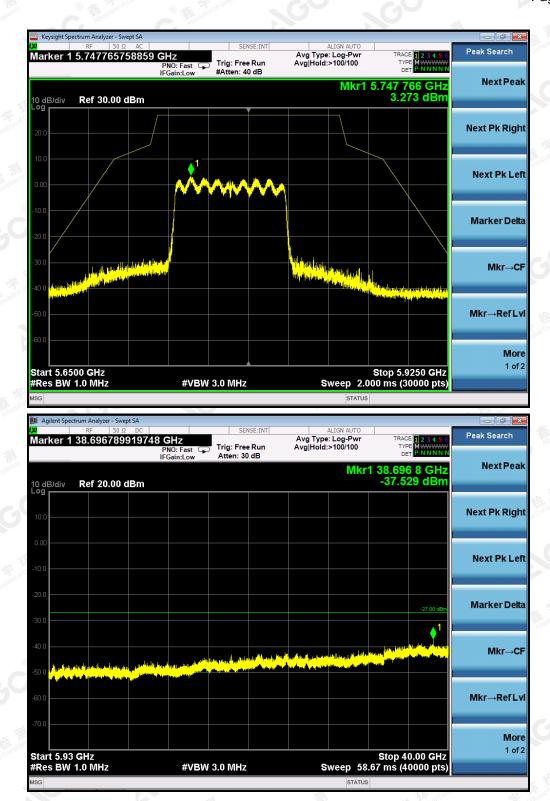
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz





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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. All the 80MHz bandwidth modulation had been tested, the 802.11ac80 was the worst case and record in his test report.

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12. RADIATED EMISSION

12.1. MEASUREMENT PROCEDURE

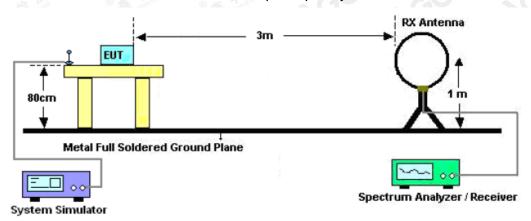
- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated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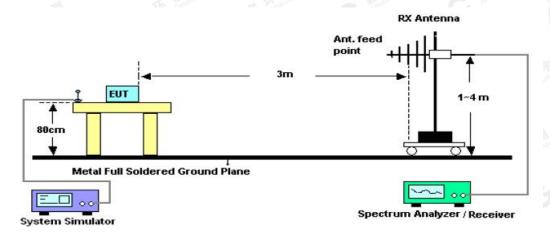


12.2. TEST SETUP

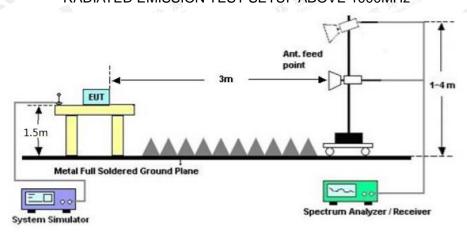
Radiated Emission Test-Setup Frequency Below 30MHz



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	The state of the s		
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

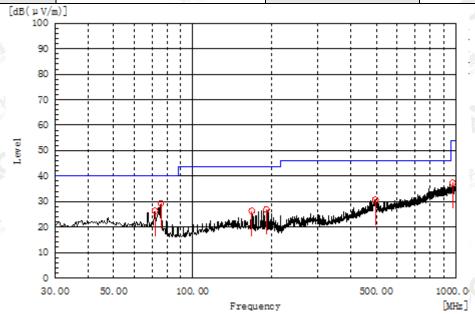
No emission found between lowest internal used/generated frequencies to 30MHz.

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RADIATED EMISSION BELOW 1GHZ

EUT	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



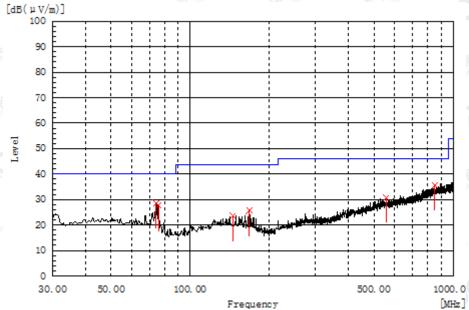
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
975.265	not Global H ®	6.4	30.9	37.3	54.0	16.7	Pass	200.0	71.1
495.115	Н	7.9	22.8	30.7	46.0	15.3	Pass	150.0	253.1
190.535	H	13.2	13.7	26.9	43.5	16.6	Pass	100.0	127.8
167.740	® # Juno of Global Co	10.2	16.1	26.3	43.5	17.2	Pass	100.0	271.9
75.590	H	16.4	12.9	29.3	40.0	10.7	Pass	150.0	71.1
71.710	н	12.3	14.0	26.3	40.0	13.7	Pass	100.0	127.8

RESULT: PASS

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EUT	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



			F 1031						
Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) PK	Limit dB(uV/m) QP	Margin dB	Pass/Fail	Height cm	Angle deg
74.135	V	15.5	13.2	28.7	40.0	11.3	Pass	150.0	179.2
75.590	not Global V ®	14.7	12.9	27.6	40.0	12.4	Pass	200.0	268.0
145.430	V	7.0	16.6	23.6	43.5	19.9	Pass	100.0	344.1
167.740	V	9.5	16.1	25.6	43.5	17.9	Pass	200.0	268.0
557.195	© V that co	6.8	24.0	30.8	46.0	15.2	Pass	150.0	251.3
851.590	V	6.1	29.6	35.7	46.0	10.3	Pass	200.0	270.9

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz 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	ac1x1+BT module	Model Name	CM-8821CU
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 Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10360.120	43.06	9.14	52.2	74	-21.8	peak
10360.120	38.96	9.14	48.1	54	o5.9	AVG
15540.180	41.09	10.22	51.31	74	-22.69	peak
15540.180	35.13	10.22	45.35	54	-8.65	AVG
Remark:	Allesta				TITLE .	LUTE -
actor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.		AST MACO	The ampliance

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
10360.120	42.18	9.14	51.32	74	-22.68	peak
10360.120	36.42	9.14	45.56	54	-8.44	AVG
15540.180	39.06	10.22	49.28	74	-24.72	peak
15540.180	34.91	10.22	45.13	54	-8.87	AVG
Remark:	Global Co	Allesto	Z.C) "			
actor = Ante	enna Factor + C	able Loss – F	re-amplifier.			

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EUT	ac1x1+BT module	Model Name	CM-8821CU
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)	value Type
10480.120	40.42	9.27	49.69	74	-24.31	peak
10480.120	36.01	9.27	45.28	54	-8.72	AVG
15720.180	39.15	10.38	49.53	74	-24.47	peak
15720.180	34.97	10.38	45.35	54	-8.65	AVG

or = 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
10480.120	41.03	9.27	50.3	74	-23.7	peak
10480.120	36.91	9.27	46.18	54	-7.82	AVG
15720.180	39.26	10.38	49.64	74	-24.36	peak
15720.180	34.27	10.38	44.65	54	-9.35	AVG
Remark:	Global Co	Allesto	Z.C) "			
actor = Ante	enna Factor + C	able Loss – F	re-amplifier.			THE SA
						ATTAL AV

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EUT	ac1x1+BT module	Model Name	CM-8821CU
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.120	40.29	9.42	49.71	74	-24.29	peak
11490.120	34.61	9.42	44.03	54	-9.97	AVG
17235.180	38.56	10.51	49.07	74	-24.93	peak
17235.180	32.43	10.51	42.94	54	-11.06	AVG

400

Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
39.18	9.42	48.6	74	-25.4	peak
34.06	9.42	43.48	54	-10.52	AVG
39.17	10.51	49.68	od Com 74	-24.32	peak
32.84	10.51	43.35	54	-10.65	AVG
F Global C	Alleste	Z.C "			
enna Factor + C	able Loss -	Pre-amplifier.			
	(dBµV) 39.18 34.06 39.17 32.84	(dBμV) (dB) 39.18 9.42 34.06 9.42 39.17 10.51 32.84 10.51	(dBμV) (dB) (dBμV/m) 39.18 9.42 48.6 34.06 9.42 43.48 39.17 10.51 49.68	(dBμV) (dB) (dBμV/m) (dBμV/m) 39.18 9.42 48.6 74 34.06 9.42 43.48 54 39.17 10.51 49.68 74 32.84 10.51 43.35 54	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 39.18 9.42 48.6 74 -25.4 34.06 9.42 43.48 54 -10.52 39.17 10.51 49.68 74 -24.32 32.84 10.51 43.35 54 -10.65

RADIATED EMISSION ABOVE 1GHZ-Vertical

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EUT	ac1x1+BT module	Model Name	CM-8821CU
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	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.120	40.66	9.62	50.28	74	-23.72	peak
11650.120	35.07	9.62	44.69	54	-9.31	AVG
17475.180	39.16	10.75	49.91	74	-24.09	peak
17475.180	32.59	10.75	43.34	54	-10.66	AVG
Remark:	Allestation.	- C Alles				litte:
actor = Ante	enna Factor + C	able Loss -	Pre-amplifier.		Mer Allin	The mpliance

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
11650.120	40.19	9.62	49.81	74	-24.19	peak
11650.120	35.2	9.62	44.82	54	-9.18	AVG
17475.180	38.94	10.75	49.69	74	-24.31	peak
17475.180	32.77	10.75	43.52	54	-10.48	AVG
Remark:	Thomas Com	Attestation	Attes			
actor = Ante	enna Factor + Ca	able Loss –	Pre-amplifier.			litte:

Note: All the case had been tested. The 802.11a modulation 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.

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13. BAND EDGE EMISSION

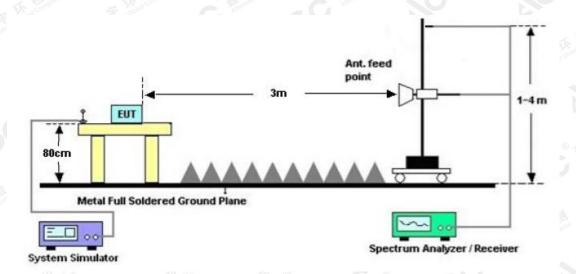
13.1. MEASUREMENT PROCEDURE

- 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 record in the report. Other restricted band 5.35GHz-5.46GHz and 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	ac1x1+BT module	Model Name	CM-8821CU
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	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



AV Value



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EUT	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal



AV Value



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EUT	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical



AV Value



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EUT	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal



AV Value



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211.7/0			ofill and
EUT	ac1x1+BT module	Model Name	CM-8821CU
Temperature	25°C	Relative Humidity	55.4%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Vertical



AV Value



RESULT: PASS

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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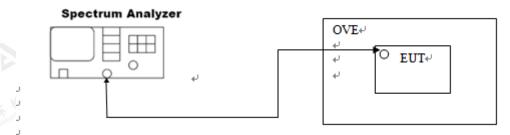
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14. FREQUENCY STABILITY

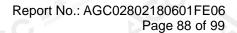
14.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2. Set the EUT Work on the operation frequency.
- Set SPA Centre Frequency = Operation Frequency. SPAN=enough to measure the emission is maintained within the band
- 4. Set SPA Trace 1 Max hold, then View.
- 5. Extreme temperature rule is -10°C~60°C.

14.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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14.3. MEASUREMENT RESULTS

Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
to Will milance	- 10℃	5180	within the band	PASS
@ F Global Co	0℃	5180	within the band	PASS
Attestation,	10℃	5180	within the band	PASS
	20℃	5180	within the band	PASS
ACT THE	30℃	5180	within the band	PASS
IN Compiler	40℃	5180	within the band	PASS
Of Station (- 10℃	5240	within the band	PASS
	0℃	5240	within the band	PASS
	10℃	5240	within the band	PASS
TK Kindling	20℃	5240	within the band	PASS
® # Jon of Global Co	30℃	5240	within the band	PASS
000 110	40℃	5240	within the band	PASS
802.11a	- 10℃	5745	within the band	PASS
	0℃	5745	within the band	PASS
40	10℃ 🕠	5745	within the band	PASS
EK KE DOWN	20℃	5745	within the band	PASS
(S) At alion of Globs.	30℃	5745	within the band	PASS
Allesi	40℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
THE SALE	0℃	5825	within the band	PASS
K a Compliance	10℃	5825	within the band	PASS
Glor (8) Attestation	20℃	5825	within the band	PASS
-00	30℃	5825	within the band	PASS
	40°C -∧\	5825	within the band	PASS

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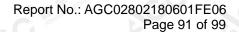
Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
e Historia	- 10℃	5180	within the band	PASS
FA Global Comp.	0℃	5180	within the band	PASS
Attestation of	10℃	5180	within the band	PASS
	20℃	5180	within the band	PASS
W All	30℃	5180	within the band	PASS
FK No Compliance	40℃	5180	within the band	PASS
(Cloud	- 10℃	5240	within the band	PASS
Allegue Allegue	0℃	5240	within the band	PASS
C III	10℃	5240	within the band	PASS
THE TOWN COMPANY	20℃	5240	within the band	PASS
	30℃	5240	within the band	PASS
002 11 20	40℃	5240	within the band	PASS
802.11n20	- 10℃	5745	within the band	PASS
	0℃	5745	within the band	PASS
3	10℃	5745	within the band	PASS
不懂	20℃	5745	within the band	PASS
® # Global C	30℃	5745	within the band	PASS
Attestation	40℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
- Allife	0℃	5825	within the band	PASS
Cooper Companios (S. San John V.	10℃	5825	within the band	PASS
	20℃	5825	within the band	PASS
	30℃	5825	within the band	PASS
	40 ℃	5825	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
See All Allenes	- 10℃	5180	within the band	PASS
FA Global Compa	0℃	5180	within the band	PASS
(R) Attestation of	10℃	5180	within the band	PASS
	20℃	5180	within the band	PASS
Wife or	30℃	5180	within the band	PASS
FY Tomphano	40℃	5180	within the band	PASS
® # Julion of	- 10℃	5240	within the band	PASS
C Allesto	0°C	5240	within the band	PASS
	10℃	5240	within the band	PASS
检测	20 ℃	5240	within the band	PASS
The digital Come	30℃	5240	within the band	PASS
002 440020	40 ℃	5240	within the band	PASS
802.11ac20	- 10℃	5745	within the band	PASS
	0℃	5745	within the band	PASS
3	10℃	5745	within the band	PASS
不是	20℃	5745	within the band	PASS
(B) The state of clobal Co	30℃	5745	within the band	PASS
Allestation	40 ℃	5745	within the band	PASS
	- 10℃	5825	within the band	PASS
TIME .	0℃	5825	within the band	PASS
K Compliance	10℃	5825	within the band	PASS
Global (8) Marie state	20℃	5825	within the band	PASS
	30℃	5825	within the band	PASS
	40℃	5825	within the band	PASS

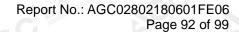
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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
ce AST Times	- 10℃	5190	within the band	PASS
The Compiler of Compiler	0℃	5190	within the band	PASS
(R) Attestation of	10℃	5190	within the band	PASS
	20℃	5190	within the band	PASS
WE THE	30℃	5190	within the band	PASS
大 为 compliance	40℃	5190	within the band	PASS
(S) SE Julion	- 10℃	5230	within the band	PASS
C Allesta	0℃	5230	within the band	PASS
	10℃	5230	within the band	PASS
检测	20℃	5230	within the band	PASS
FA Global Comb	30℃	5230	within the band	PASS
902 11 5 10	40℃	5230	within the band	PASS
802.11n40	- 10℃	5755	within the band	PASS
	0℃	5755	within the band	PASS
3	10℃	5755	within the band	PASS
不懂	20℃	5755	within the band	PASS
® # Global Co	30℃	5755	within the band	PASS
Allestation	40℃	5755	within the band	PASS
	- 10℃	5795	within the band	PASS
11117	0℃	5795	within the band	PASS
K Compliance	10℃	5795	within the band	PASS
Globa, @	20℃	5795	within the band	PASS
	30℃	5795	within the band	PASS
	40 ℃	5795	within the band	PASS

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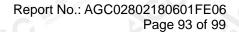




Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
ice Hill	- 10℃	5190	within the band	PASS
S Statement of Closel Communication	0℃	5190	within the band	PASS
	10℃	5190	within the band	PASS
	20℃	5190	within the band	PASS
WE THE	30℃	5190	within the band	PASS
FK No Compliano	40℃	5190	within the band	PASS
(Clov	- 10°C	5230	within the band	PASS
C Allegue	0℃	5230	within the band	PASS
G	10℃	5230	within the band	PASS
校 police	20℃	5230	within the band	PASS
© A A A A A A A	30℃	5230	within the band	PASS
	40℃	5230	within the band	PASS
802.11ac40	- 10℃	5755	within the band	PASS
	0℃	5755	within the band	PASS
3	10℃	5755	within the band	PASS
不懂	20℃	5755	within the band	PASS
® # Global C	30℃	5755	within the band	PASS
Alfestalle	40℃	5755	within the band	PASS
	- 10℃	5795	within the band	PASS
ijili)	0℃	5795	within the band	PASS
TK Compliance	10℃	5795	within the band	PASS
Globa, 8 Mesta	20℃	5795	within the band	PASS
C10 "	30℃	5795	within the band	PASS
	40℃	5795	within the band	PASS

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Test Mode	Temperature	Measurement Frequency (MHz)	Result	Conclusion
ance Air	- 10℃	5210	within the band	PASS
FA Global Comp.	0℃	5210	within the band	PASS
(R) Attestation of	10℃	5210	within the band	PASS
	20℃	5210	within the band	PASS
- FIN	30℃	5210	within the band	PASS
002 110 200	40 ℃	5210	within the band	PASS
802.11ac80	- 10℃	5775	within the band	PASS
C Allegia	0°C	5775	within the band	PASS
	10℃	5775	within the band	PASS
THE MAN OF THE PARTY OF THE PAR	20℃	5775	within the band	PASS
O E F OGlobal Conn	30℃	5775	within the band	PASS
Altestation of Altestation	40℃	5775	within the band	PASS

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15. FCC LINE CONDUCTED EMISSION TEST

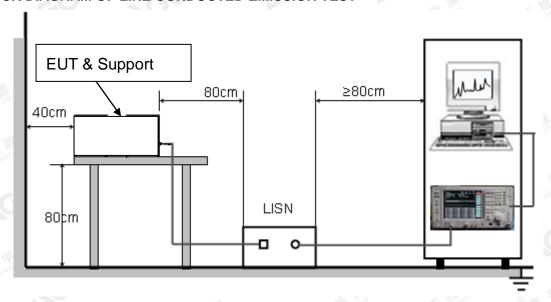
15.1. LIMITS OF LINE CONDUCTED EMISSION TEST

F	Maximum RF Line Voltage					
Frequency	Q.P.(dBuV)	Average(dBuV)				
150kHz~500kHz	66-56	56-46				
500kHz~5MHz	9 A S	46				
5MHz~30MHz	60	50				

Note:

- 1. The lower limit shall apply at the transition frequency.
- 2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

15.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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15.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- 1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2. Support equipment, if needed, was placed as per ANSI C63.10.
- 3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
- 4. All support equipments received AC120V/60Hz power from a LISN, if any.
- 5. The EUT received charging voltage by adapter which received 120V/60Hzpower by a LISN.
- 6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8. During the above scans, the emissions were maximized by cable manipulation.
- 9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

15.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

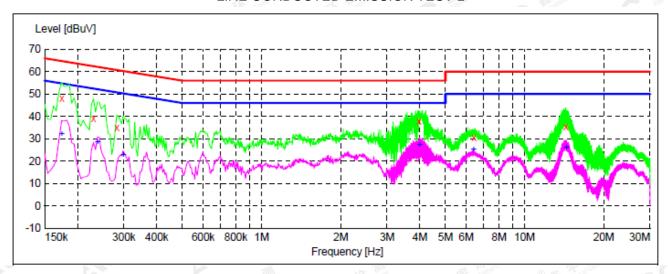
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
- 3. The test data of the worst case condition(s) was reported on the Summary Data page.

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15.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	48.10	10.0	65	16.7	QP	L1	FLO
0.230000	39.20	10.1	62	23.2	QP	L1	FLO
0.282000	35.00	10.1	61	25.8	QP	L1	FLO
3.966000	37.70	10.1	56	18.3	QP	L1	FLO
6.418000	30.50	9.9	60	29.5	QP	L1	FLO
14.354000	35.40	9.6	60	24.6	QP	L1	FLO

MEASUREMENT RESULT:

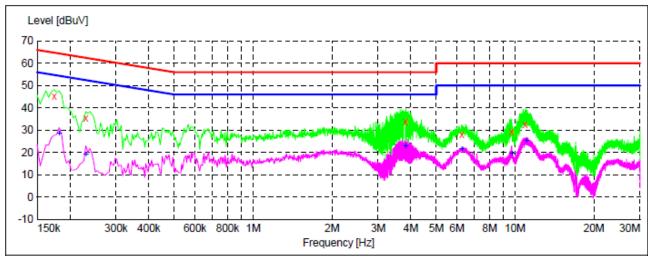
Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	32.10	10.0	55	22.7	AV	L1	FLO
0.238000	28.40	10.1	52	23.8	AV	L1	FLO
0.298000	22.60	10.1	50	27.7	AV	L1	FLO
3.982000	27.20	10.1	46	18.8	AV	L1	FLO
6.398000	25.30	9.9	50	24.7	AV	L1	FLO
14.366000	26.10	9.6	50	23.9	AV	L1	FLO

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LINE CONDUCTED EMISSION TEST-N



MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.174000	45.10	10.0	65	19.7	QP	N	FLO
0.230000	35.30	10.1	62	27.1	QP	N	FLO
3.826000	33.90	10.1	56	22.1	QP	N	FLO
6.254000	27.90	10.0	60	32.1	QP	N	FLO
9.718000	29.30	10.5	60	30.7	QP	N	FLO
10.922000	32.70	10.3	60	27.3	QP	N	FLO

MEASUREMENT RESULT:

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.182000	28.40	10.0	54	26.0	AV	N	FLO
0.230000	19.20	10.1	52	33.2	AV	N	FLO
3.818000	22.60	10.1	46	23.4	AV	N	FLO
6.266000	21.70	10.0	50	28.3	AV	N	FLO
9.718000	19.60	10.5	50	30.4	AV	N	FLO
11.002000	25.10	10.3	50	24.9	AV	N	FLO

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



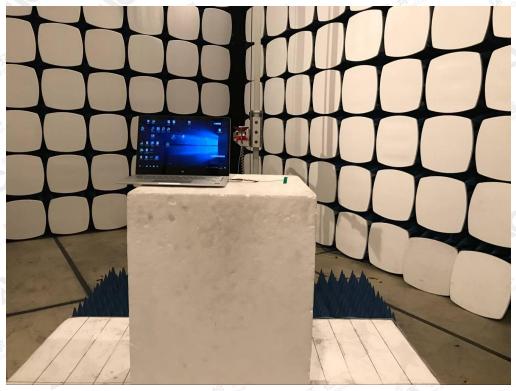
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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



----END OF REPORT----

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