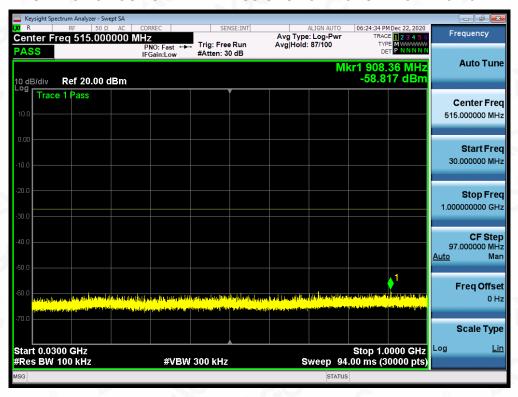
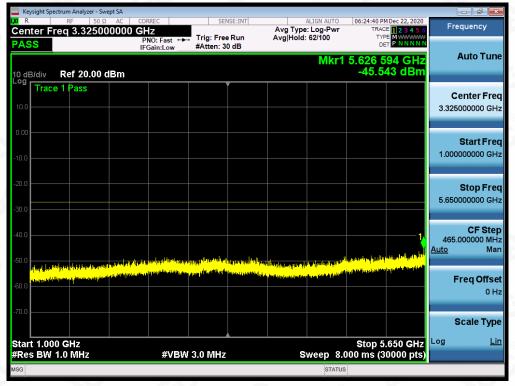


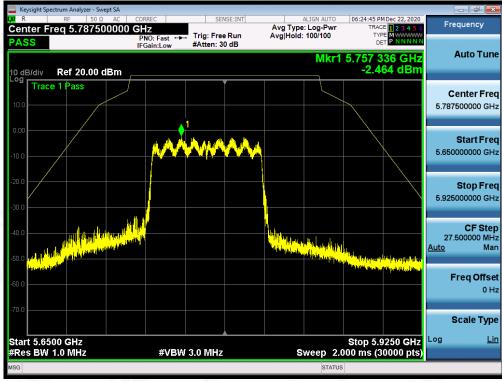
TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz



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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. If 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

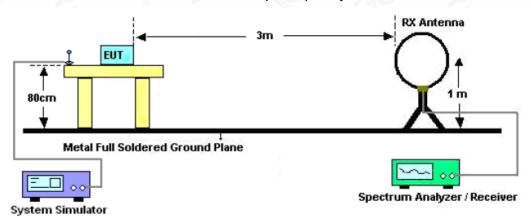
- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated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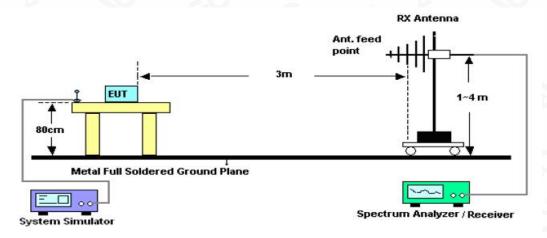


12.2. TEST SETUP

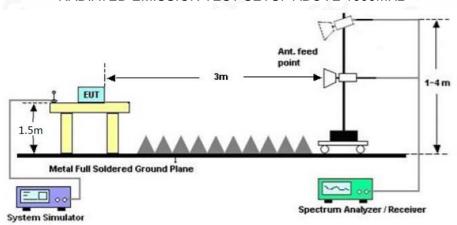
Radiated Emission Test-Setup Frequency Below 30MHz



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	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission, the test records reported below are the worst result compared to other modes.

12.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

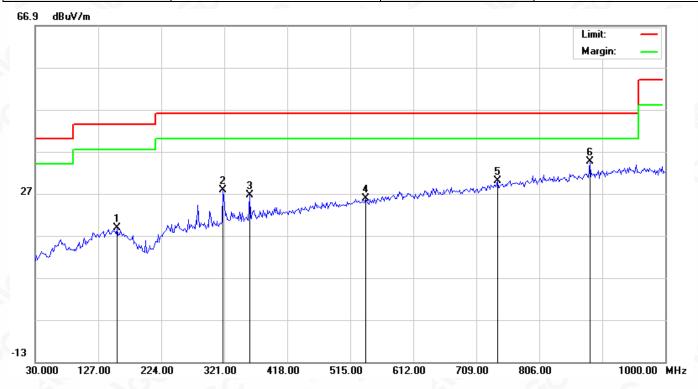
The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHZ

EUT	Wireless USB Adapter	Model Name	5B12	
Temperature	25°C	Relative Humidity	60%	
Pressure 960hPa		Test Voltage	Normal Voltage	
Test Mode	802.11a20 5180MHz	Antenna	Horizontal	



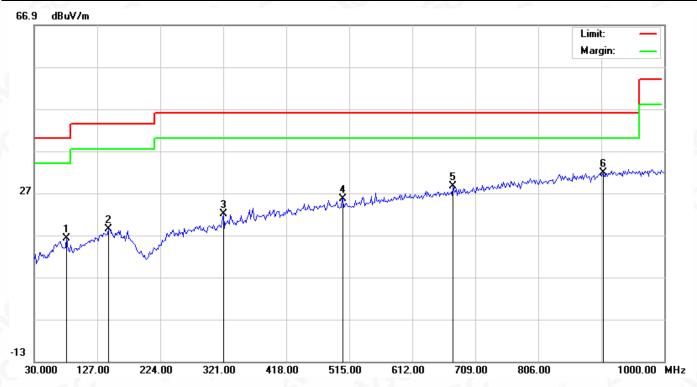
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		156.1000	-0.44	19.20	18.76	43.50	-24.74	peak
2		319.3833	7.70	20.15	27.85	46.00	-18.15	peak
3		359.8000	5.09	21.57	26.66	46.00	-19.34	peak
4		539.2500	-0.02	25.76	25.74	46.00	-20.26	peak
5		741.3333	0.86	29.08	29.94	46.00	-16.06	peak
6	*	883.6000	3.09	31.49	34.58	46.00	-11.42	peak

RESULT: PASS

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EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



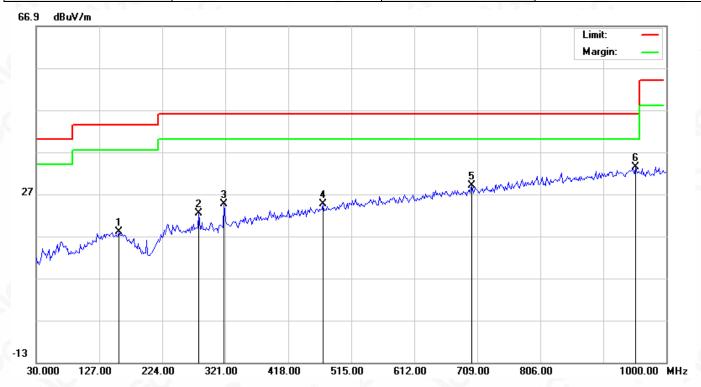
No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		80.1167	1.36	14.94	16.30	40.00	-23.70	peak
2		144.7833	-0.85	19.22	18.37	43.50	-25.13	peak
3		321.0000	1.76	20.21	21.97	46.00	-24.03	peak
4		505.3000	0.48	25.09	25.57	46.00	-20.43	peak
5		675.0500	0.68	27.85	28.53	46.00	-17.47	peak
6	*	906.2333	0.09	31.75	31.84	46.00	-14.16	peak

RESULT: PASS

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EUT	Wireless USB Adapter	Model Name	5B12	
Temperature	25°C	Relative Humidity	60%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11a20 5745MHz	Antenna	Horizontal	



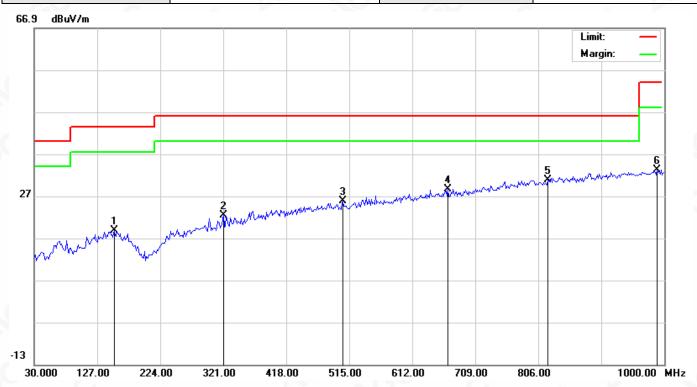
1 157.7167 -1.11 19.19 18.08 43.50 -25.42 peak 2 280.5833 2.46 19.93 22.39 46.00 -23.61 peak 3 319.3833 4.50 20.15 24.65 46.00 -21.35 peak									
1 157.7167 -1.11 19.19 18.08 43.50 -25.42 peak 2 280.5833 2.46 19.93 22.39 46.00 -23.61 peak 3 319.3833 4.50 20.15 24.65 46.00 -21.35 peak 4 471.3500 0.16 24.41 24.57 46.00 -21.43 peak 5 700.9167 0.77 28.17 28.94 46.00 -17.06 peak	No	. M	lk. Freq.	_			Limit	Over	
2 280.5833 2.46 19.93 22.39 46.00 -23.61 peak 3 319.3833 4.50 20.15 24.65 46.00 -21.35 peak 4 471.3500 0.16 24.41 24.57 46.00 -21.43 peak 5 700.9167 0.77 28.17 28.94 46.00 -17.06 peak			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
3 319.3833 4.50 20.15 24.65 46.00 -21.35 peak 4 471.3500 0.16 24.41 24.57 46.00 -21.43 peak 5 700.9167 0.77 28.17 28.94 46.00 -17.06 peak	1		157.7167	-1.11	19.19	18.08	43.50	-25.42	peak
4 471.3500 0.16 24.41 24.57 46.00 -21.43 peak 5 700.9167 0.77 28.17 28.94 46.00 -17.06 peak	2		280.5833	2.46	19.93	22.39	46.00	-23.61	peak
5 700.9167 0.77 28.17 28.94 46.00 -17.06 peak	3		319.3833	4.50	20.15	24.65	46.00	-21.35	peak
	4		471.3500	0.16	24.41	24.57	46.00	-21.43	peak
6 * 953.1167 1.33 32.16 33.49 46.00 -12.51 peak	5		700.9167	0.77	28.17	28.94	46.00	-17.06	peak
	6	*	953.1167	1.33	32.16	33.49	46.00	-12.51	peak

RESULT: PASS

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EUT	Wireless USB Adapter	Model Name	5B12	
Temperature	25°C	Relative Humidity	60%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11a20 5745MHz	Antenna	Vertical	



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
1		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		152.8667	-0.48	19.20	18.72	43.50	-24.78	peak
2		321.0000	2.29	20.21	22.50	46.00	-23.50	peak
3		505.3000	0.73	25.09	25.82	46.00	-20.18	peak
4		666.9667	0.95	27.75	28.70	46.00	-17.30	peak
5	*	820.5500	0.04	30.68	30.72	46.00	-15.28	peak
6		988.6833	0.75	32.46	33.21	54.00	-20.79	peak

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report..

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

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

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RADIATED EMISSION ABOVE 1GHZ

EUT	Wireless USB Adapter	Model Name	5B12	
Temperature	25°C	Relative Humidity	60%	
Pressure	960hPa	Test Voltage	Normal Voltage	
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical	

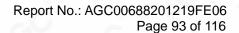
RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type
10360.042	45.38	9.14	54.52	68.20	-13.68	peak
15540.063	41.27	10.22	51.49	74.00	-22.51	peak
15540.063	31.59	10.22	41.81	54.00	-12.19	AVG
Remark:	31.59	10.22	41.01	54.00	-12.19	AVC
Factor = Ante	enna Factor + Ca	hle Loss - F	re-amplifier			8

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Frequency Meter Reading Factor Emission Level Limits Margin							
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Value Type		
10360.042	45.19	9.14	54.33	68.20	-13.87	peak		
15540.063	41.42	10.22	51.64	74.00	-22.36	peak		
15540.063	32.77	10.22	42.99	54.00	-11.01	AVG		
Remark:			0		8			
Factor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.					

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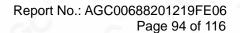
EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

					Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
10400.042	47.59	9.14	56.73	68.20	-11.47	peak
15600.063	42.13	10.22	52.35	74.00	-21.65	peak
15600.063	31.59	10.22	41.81	54.00	-12.19	AVG

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	46.19	9.14	55.33	68.20	-12.87	peak
15600.063	40.28	10.22	50.50	74.00	-23.50	peak
15600.063	30.49	10.22	40.71	54.00	-13.29	AVG
Remark:					8	
Factor = Ante	enna Factor + Ca	able Loss – F	re-amplifier.			

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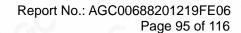
EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
<u> </u>	, ,				<u> </u>	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
10480.042	46.29	9.27	55.56	68.20	-12.64	peak
15720.063	41.78	10.38	52.16	74.00	-21.84	peak
15720.063	30.59	10.38	40.97	54.00	-13.03	AVG
Remark:	8				©	
actor = Ante	enna Factor + C	able Loss – P	re-amplifier			(8)

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
10480.042	45.19	9.27	54.46	68.20	-13.74	peak
15720.063	40.77	10.38	51.15	74.00	-22.85	peak
15720.063	30.62	10.38	41.00	54.00	-13.00	AVG
Remark:			0		(8)	
actor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.			

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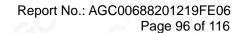
CUT	Wireless LICD Adenter	Madal Nama	5D40
EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	- Value Type
11490.042	45.19	9.42	54.61	74.00	-19.39	peak
11490.042	38.44	9.42	47.86	54.00	-6.14	AVG
17235.063	40.13	10.51	50.64	68.20	-17.56	peak
Remark:	8				(8)	
actor = Ante	enna Factor + Ca	able Loss – Pi	re-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	46.28	9.42	55.70	74.00	-18.30	peak
11490.042	36.19	9.42	45.61	54.00	-8.39	AVG
17235.063	40.79	10.51	51.30	68.20	-16.90	peak
Remark:					®	
Factor = Ante	enna Factor + Ca	able Loss - P	re-amplifier.			

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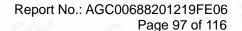
EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

				(9)		
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11570.042	47.26	9.42	56.68	74.00	-17.32	peak
11570.042	36.49	9.42	45.91	54.00	-8.09	AVG
17355.063	42.58	10.51	53.09	68.20	-15.11	peak
Remark:	(a)				(2)	
actor = Ante	enna Factor + C	able Loss – P	re-amplifier.			(0)

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
11570.042	46.19	9.42	55.61	74.00	-18.39	peak
11570.042	35.48	9.42	44.90	54.00	-9.10	AVG
17355.063	41.77	10.51	52.28	68.20	-15.92	peak
Remark:					0	
actor = Ante	enna Factor + Ca	able Loss – Pi	re-amplifier			8

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/Inspection
The test results
the test report.



EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
11650.042	46.19	9.62	52.98	74.00	-21.02	peak	
11650.042 35.17		9.62	45.05 54.00		-8.95	AVG	
17475.063	40.56	10.75	47.61	68.20	-26.39	peak	

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	eter Reading Factor Em		Limits	Margin	Value Type	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
11650.042	45.29	9.62	2 53.55 74.00		.00 -20.45	peak	
11650.042	36.47	9.62	47.64	54.00	-6.36	AVG	
17475.063	38.67	10.75	48.61	68.20	-25.39	peak	
Remark:				C	®		
Factor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.		G	(8)	

Note: All test channels had been tested. The 802.11a20 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

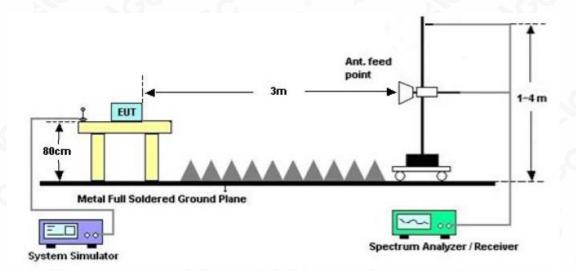
13.1. MEASUREMENT PROCEDURE

- 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=3MHz/ Sweep=AUTO
- 3. Other procedures refer to clause 11.2.

Note:

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

13.2. TEST SET-UP



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g/Inspection
The test results
the test report.



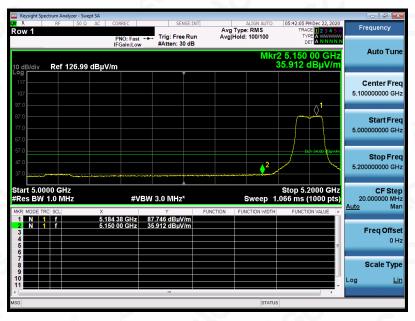
13.3. TEST RESULT

EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal

PK Value



AV Value



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The test results

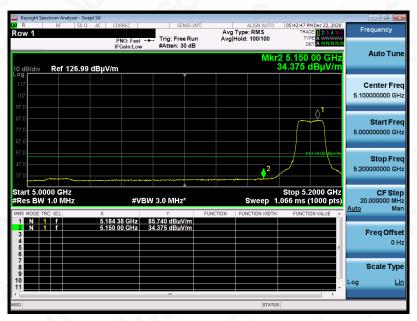


EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical

PK Value



AV Value



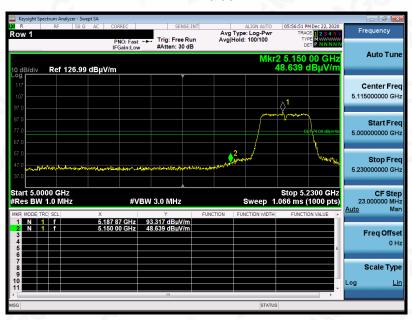
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the bedicated restriction. Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

The test results

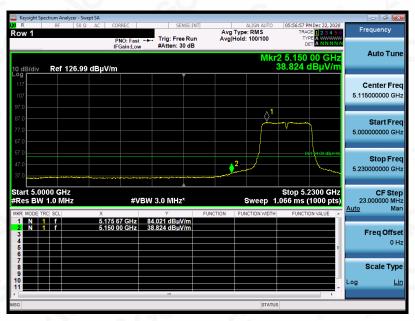


EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Horizontal

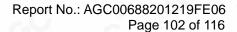
PK Value



AV Value



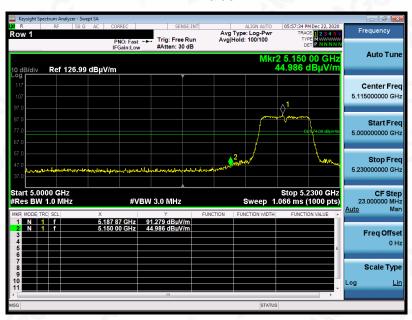
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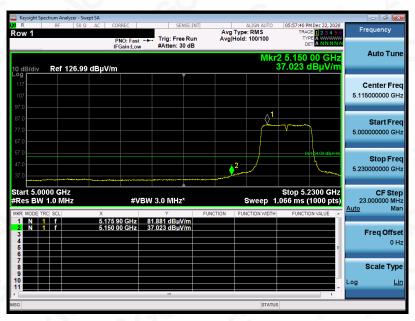


EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11n40 5190MHz	Antenna	Vertical

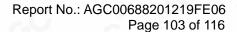
PK Value



AV Value



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The test results



EUT	Wireless USB Adapter	Model Name	5B12
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11ac80 5210MHz	Antenna	Horizontal

PK Value

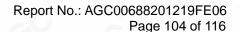


AV Value



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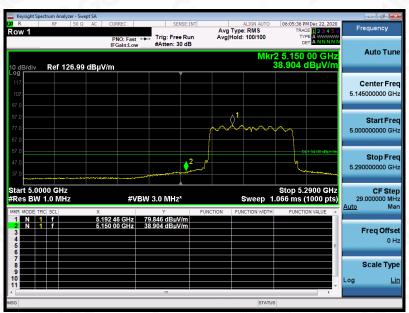


EUT	Wireless USB Adapter	ss USB Adapter Model Name 5B1				
Temperature	25°C	Relative Humidity	60%			
Pressure	960hPa	Test Voltage	Normal Voltage			
Test Mode	802.11ac80 5210MHz	Antenna	Vertical			

PK Value



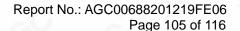
AV Value



RESULT: PASS

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 at 5180MHz was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 at 5190MHz was the worst case and record in his test report. All the 80MHz bandwidth modulation had been tested, the 802.11AC80 at 5210MHz was the worst case and record in his test report.

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14. FCC LINE CONDUCTED EMISSION TEST

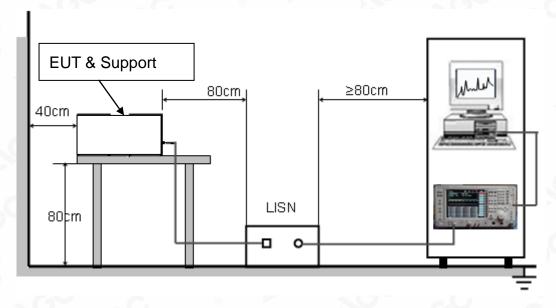
14.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency 150kHz~500kHz	Maximum RF Line Voltage						
Frequency	Q.P.(dBuV)	Average(dBuV)					
150kHz~500kHz	66-56	56-46					
500kHz~5MHz	56	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.

14.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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14.3. 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.

14.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

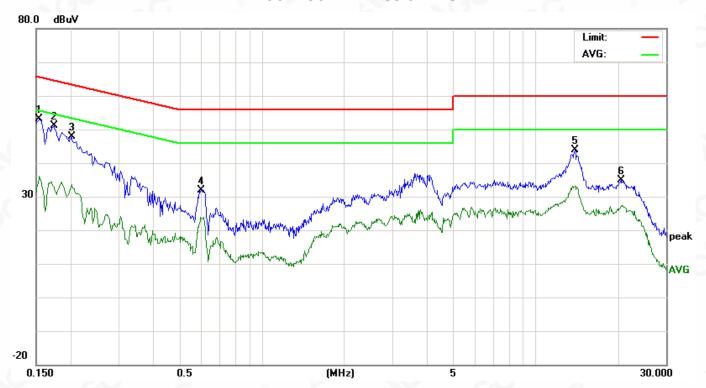
- 1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
- 2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were 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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14.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L

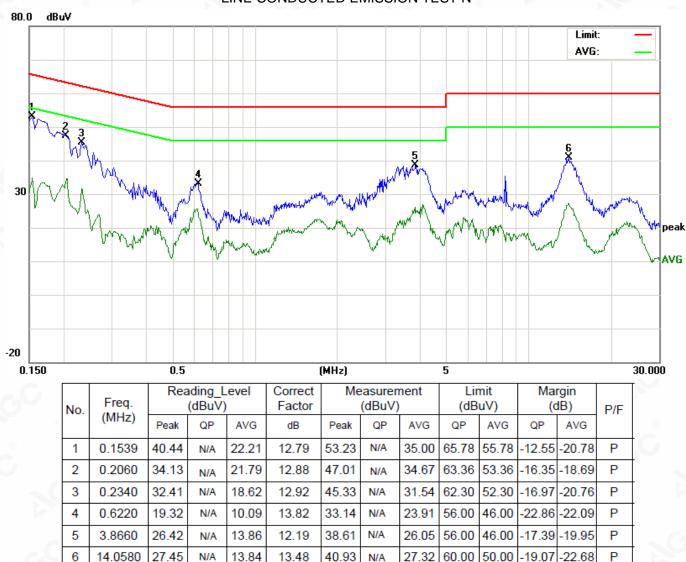


No.	Freq.	ı	ding_L (dBuV)		Correct Factor	Measurement Limit (dBuV) (dBuV)				1	rgin fB)	P/F	
(MHz)		Peak	QP	AVG	dB	Peak	QP	AVG	QP	AVG	QP	AVG	
1	0.1539	40.40	N/A	23.36	12.79	53.19	N/A	36.15	65.78	55.78	-12.59	-19.63	Р
2	0.1740	38.42	N/A	19.94	12.82	51.24	N/A	32.76	64.76	54.76	-13.52	-22.00	Р
3	0.2020	34.91	N/A	20.75	12.87	47.78	N/A	33.62	63.52	53.52	-15.74	-19.90	Р
4	0.6020	18.16	N/A	9.78	13.82	31.98	N/A	23.60	56.00	46.00	-24.02	-22.40	Р
5	13.9540	30.34	N/A	19.57	13.49	43.83	N/A	33.06	60.00	50.00	-16.17	-16.94	Р
6	20.5100	21.64	N/A	14.29	13.18	34.82	N/A	27.47	60.00	50.00	-25.18	-22.53	Р

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LINE CONDUCTED EMISSION TEST-N



RESULT: PASS

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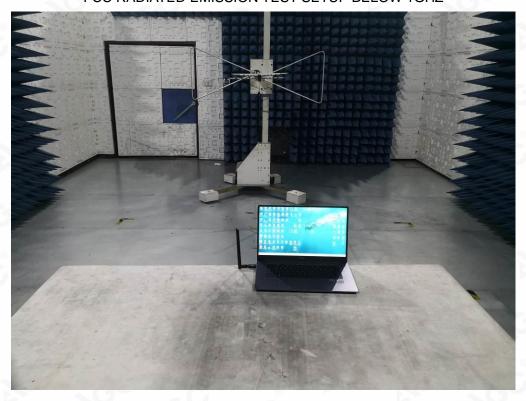


APPENDIX A: PHOTOGRAPHS OF TEST SETUP

FCC LINE CONDUCTED EMISSION TEST SETUP



FCC RADIATED EMISSION TEST SETUP BELOW 1GHZ



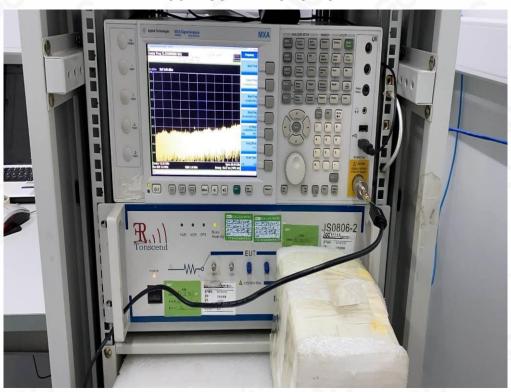
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FCC RADIATED EMISSION TEST SETUP ABOVE 1GHZ



CONDUCTED TEST SETUP



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APPENDIX B: PHOTOGRAPHS OF EUT

TOP VIEW OF EUT



BOTTOM VIEW OF EUT



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FRONT VIEW OF EUT



BACK VIEW OF EUT



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LEFT VIEW OF EUT



RIGHT VIEW OF EUT



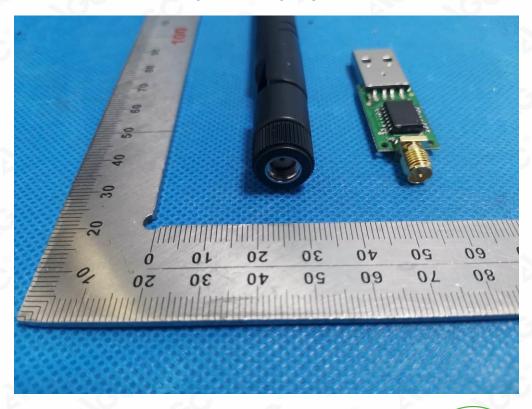
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OPEN VIEW OF EUT-1



OPEN VIEW OF EUT-2



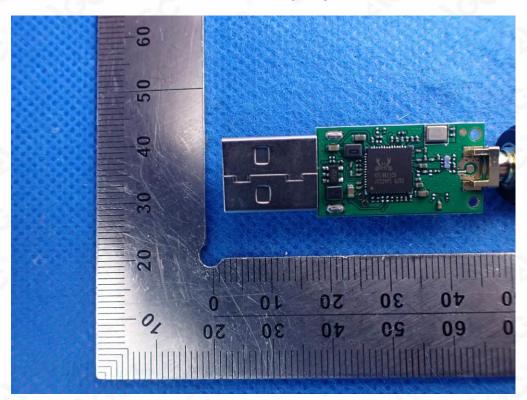
Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the specificated resting/inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the writter pathorization 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 15day after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.



OPEN VIEW OF EUT-3



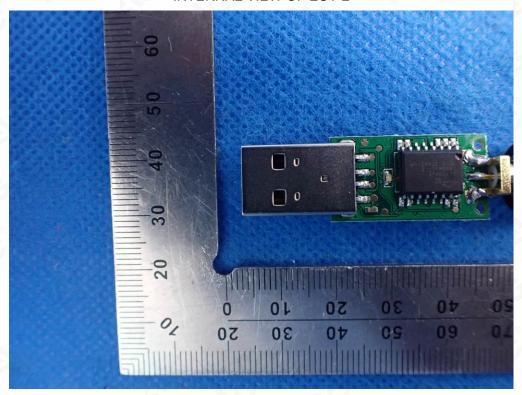
INTERNAL VIEW OF EUT-1



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INTERNAL VIEW OF EUT-2



----END OF REPORT----

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Conditions of Issuance of Test Reports

- 1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
- 2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
- 3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 4. The non-CMA report issued by AGC is only permitted to be used by the client as internal reference use and shall not be used for public demonstration purpose.
- 5. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
- 6. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
- 7. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
- 8. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 9. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
- 10. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the standard restriction Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written explorization 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 issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.