

FCC C2PC REPORT

Product Name : Jaffas Bluetooth Module
Brand Mark : Cricut
Model No. : CBM002 v2
FCC ID : 2AYX6-JAFA
Report Number : BLA-EMC-202303-A6503
Date of Sample Receipt : 2023/3/16
Date of Test : 2023/3/17 to 2023/8/3
Date of Issue : 2023/8/3
Test Standard : 47 CFR Part 15, Subpart C 15.247
Test Result : Pass

Prepared for:

Cricut Inc.

10855 South River Front Parkway, South Jordan, Utah, USA

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

**Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District,
Shenzhen, Guangdong Province, China**

TEL: +86-755-23059481

Compiled by:

charlie

Approved by:

Blue Zheng



Review by:

Sueela

Date:

2023/8/3



REPORT REVISE RECORD

Version No.	Date	Description
00	2023/8/3	Original

BlueAsia

TABLE OF CONTENTS

1 TEST SUMMARY	4
2 GENERAL INFORMATION	5
3 GENERAL DESCRIPTION OF E.U.T	5
4 OPERATION FREQUENCY EACH OF CHANNEL	6
5 TEST ENVIRONMENT	7
6 TEST MODE	7
7 MEASUREMENT UNCERTAINTY	7
8 DESCRIPTION OF SUPPORT UNIT	8
9 LABORATORY LOCATION	8
10 TEST INSTRUMENTS LIST	9
11 RADIATED SPURIOUS EMISSIONS	11
11.1 LIMITS	11
11.2 BLOCK DIAGRAM OF TEST SETUP	12
11.3 PROCEDURE	12
11.4 TEST DATA	14
12 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS	22
12.1 LIMITS	22
12.2 BLOCK DIAGRAM OF TEST SETUP	23
12.3 PROCEDURE	23
12.4 TEST DATA	25
13 CONDUCTED PEAK OUTPUT POWER	29
13.1 LIMITS	29
13.2 BLOCK DIAGRAM OF TEST SETUP	29
13.3 TEST DATA	30
14 APPENDIX	31
14.1 MAXIMUM CONDUCTED OUTPUT POWER	31
APPENDIX A: PHOTOGRAPHS OF TEST SETUP	33
APPENDIX B: PHOTOGRAPHS OF EUT	34

1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Radiated Spurious Emissions	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.4,6.5,6.6	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.209 & 15.247(d)	Pass
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass

Remark:

The above test items are the C2PC report. The above test is based on antenna changes, and only the conduction peak output power, radiation and radiation pass all the test standards. For other test items, refer to the original report number: BLA-EMC-202107-A1602

2 GENERAL INFORMATION

Applicant	Cricut Inc.
Address	10855 South River Front Parkway, South Jordan, Utah, USA
Manufacturer	Cricut Inc.
Address	10855 South River Front Parkway, South Jordan, Utah, USA
Factory	Microtronics Technology SDN BHD
Address	No. 10 & 10A, Jalan Bayu, Kawasan Perindustrian Hsail, 81200, Tampoi, Johor, Malaysia
Product Name	Jaffas Bluetooth Module
Test Model No.	CBM002 v2

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	v2
Software Version	application-Cricut-v1.8-573382650-wd.bin
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	Ceramic Antenna
Antenna Gain:	1.69dBi(Provided by the customer)

4 OPERATION FREQUENCY EACH OF CHANNEL

BLE:

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2402MHz	11	2422MHz	21	2442MHz	31	2462MHz
2	2404MHz	12	2424MHz	22	2444MHz	32	2464MHz
⋮ ⋮	⋮ ⋮	⋮ ⋮	⋮ ⋮	⋮ ⋮	⋮ ⋮	⋮ ⋮	⋮ ⋮
9	2418MHz	19	2438MHz	29	2458MHz	39	2478MHz
10	2420MHz	20	2440MHz	30	2460MHz	40	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2402MHz
The middle channel	2442MHz
The Highest channel	2480MHz

5 TEST ENVIRONMENT

Environment	Temperature	Voltage
Normal	25°C	DC3.3V

6 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
TX	Keep the EUT in transmitting mode

Remark: Only the data of the worst mode would be recorded in this report.

7 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30MHz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB

8 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	HASEE	K610D	N/A	N/A

9 LABORATORY LOCATION

All tests were performed at:

BlueAsia of Technical Services(Shenzhen) Co., Ltd.

Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673

No tests were sub-contracted.

BlueAsia

10 TEST INSTRUMENTS LIST

Test Equipment Of Radiated Spurious Emissions					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber 1	SKET	966	N/A	2020/11/10	2023/11/9
Chamber 2	SKET	966	N/A	2021/07/20	2024/07/19
Spectrum	R&S	FSP40	100817	2022/09/15	2023/09/14
Receiver	R&S	ESR7	101199	2022/09/15	2023/09/14
Receiver	R&S	ESPI7	101477	2022/07/16	2024/07/15
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	2022/09/15	2023/09/14
Horn Antenna	Schwarzbeck	BBHA9120D	01892 P:00331	2022/09/13	2025/09/12
Amplifier	SKET	LNPA_30M01G-30	SK2021060801	2022/07/16	2024/07/15
Amplifier	SKET	PA-000318G-45	N/A	2022/09/13	2023/09/12
Amplifier	SKET	LNPA_18G40G-50	SK2022071301	2022/07/14	2024/07/13
Filter group	SKET	2.4G/5G Filter group r	N/A	2022/07/16	2024/07/15
EMI software	EZ	EZ-EMC	EEMC-3A1	N/A	N/A
Loop antenna	SCHNARZBECK	FMZB1519B	00102	2022/9/14	2025/9/13
Controller	SKET	N/A	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-02	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-03	N/A	N/A	N/A
Coaxial Cable	BlueAsia	BLA-XC-01	N/A	N/A	N/A
SignalGenerator	Agilent	N5182A	MY47420955	2022/9/7	2023/9/6
Audio Analyzer	ATS-1	Audio Precision	ATS141094	2023/07/01	2024/06/30
Electric and Magnetic Field Analyzer	EHP-200A	Narda	180ZX11016	2023/03/30	2024/03/29
Audio shielding box	SB-ABT-C35	SKET	N/A	2022/09/14	2023/09/13
1kHz calibration audio source	MCS-ABT-C35	SKET	N/A	2022/09/14	2023/09/13
Free Field Microphone	MGS MP 663	SKET	0414	2022/09/09	2023/09/08

Test Equipment Of RF Conducted Test					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Spectrum	R&S	FSP40	100817	2022/09/15	2023/09/14
Spectrum	Agilent	N9020A	MY49100060	2022/09/07	2023/09/06
Spectrum	KEYSIGHT	N9030A	MY52350152	2022/07/01	2024/06/30
Spectrum	KEYSIGHT	N9010A	MY54330814	2022/07/01	2024/06/30
Signal Generator	Agilent	N5182A	MY47420955	2022/09/07	2023/09/06
Signal Generator	Agilent	E8257D	MY44320250	2022/07/01	2024/06/30
Signal Generator	Agilent	N5181A	MY46240904	2022/08/02	2024/08/01
Signal Generator	R&S	CMW500	132429	2022/09/07	2023/09/06
BluetoothTester	Anritsu	MT8852B	06262047872	2022/09/07	2023/09/06
Power probe	DARE	RPR3006W	14I00889SN042	2022/09/07	2023/09/06
DCPowersupply	zhaoxin	KXN-305D	20K305D1221363	2022/09/14	2023/09/13
DCPowersupply	zhaoxin	RXN-1505D	19R1505D050168	2022/09/14	2023/09/13
Audio Analyzer	Audioprecision	N/A	ATSI-41094	2022/7/1	2024/6/30
2.4GHz/5GHz RF Test software	MTS	MTS 8310	Version 2.0.0.0	N/A	N/A

11 RADIATED SPURIOUS EMISSIONS

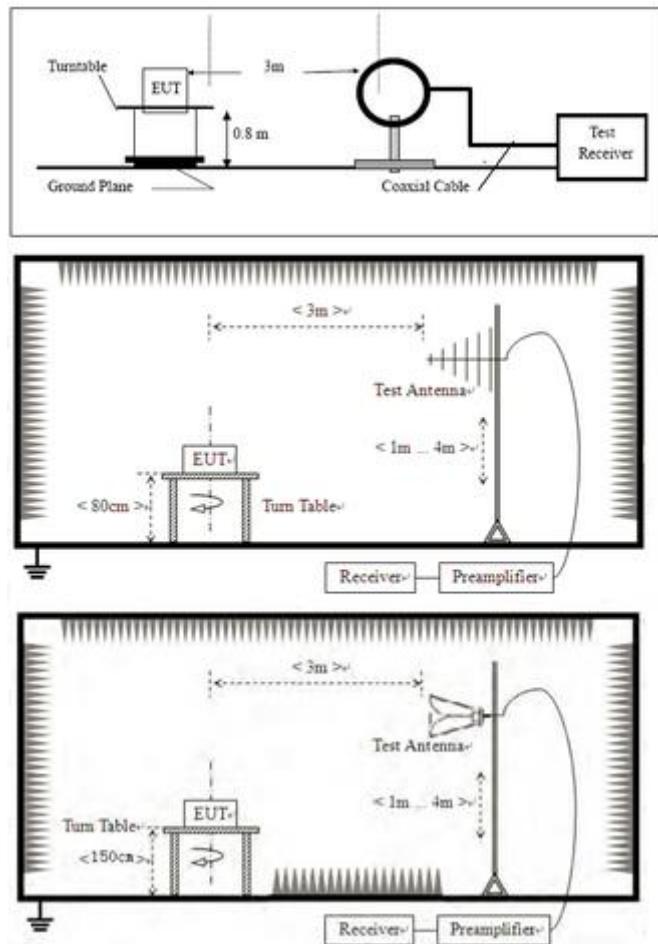
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25 °C
Humidity	60%

11.1 LIMITS

Frequency(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

11.2 BLOCK DIAGRAM OF TEST SETUP



11.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark:

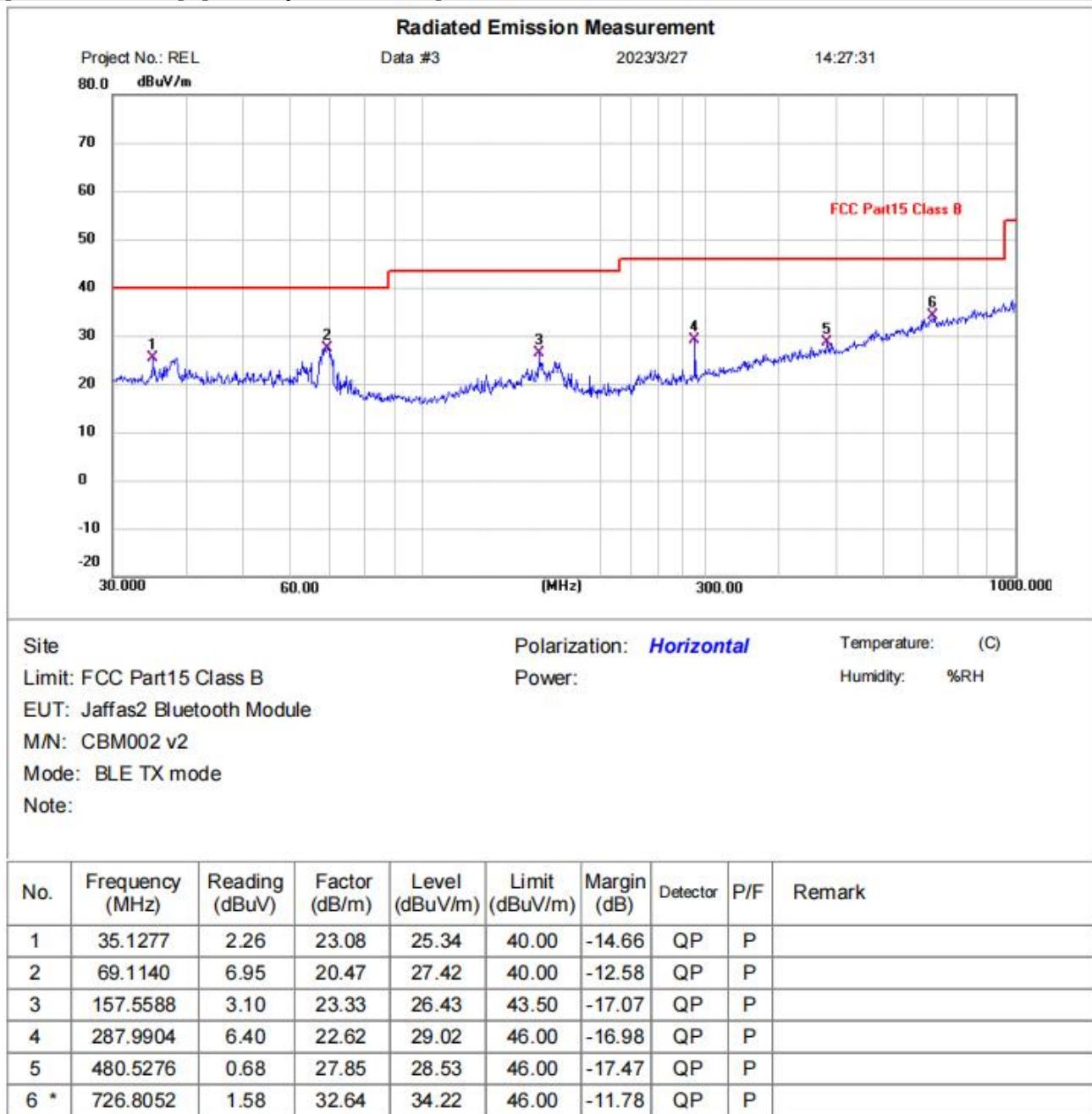
- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor
- 3) Scan from 9kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. fundamental frequency is blocked by filter, and only spurious emission is shown.
- 4) For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

11.4 TEST DATA

Below 1GHz

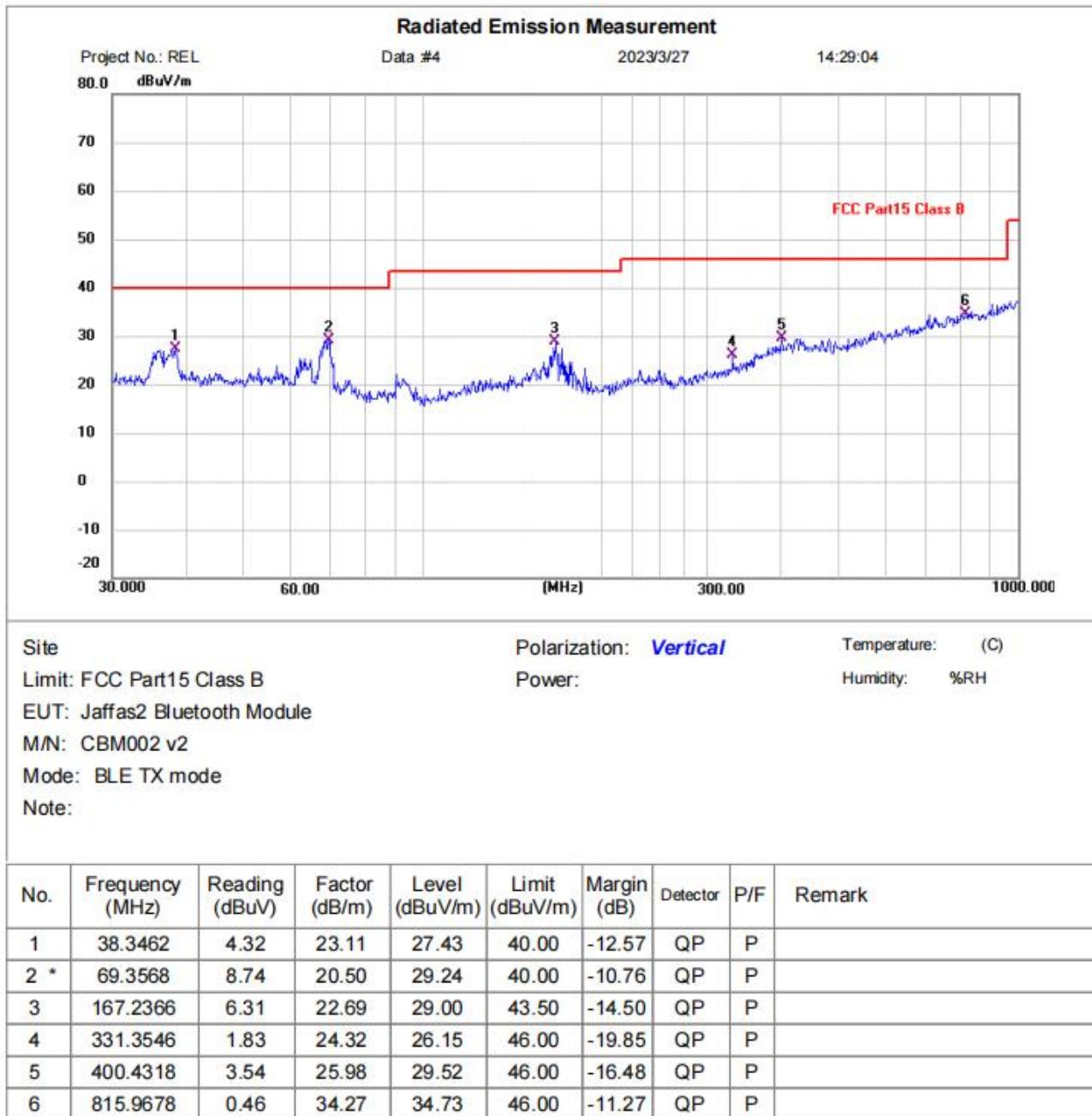
CBM002 v2:

[TestMode: TX]; [Polarity: Horizontal]



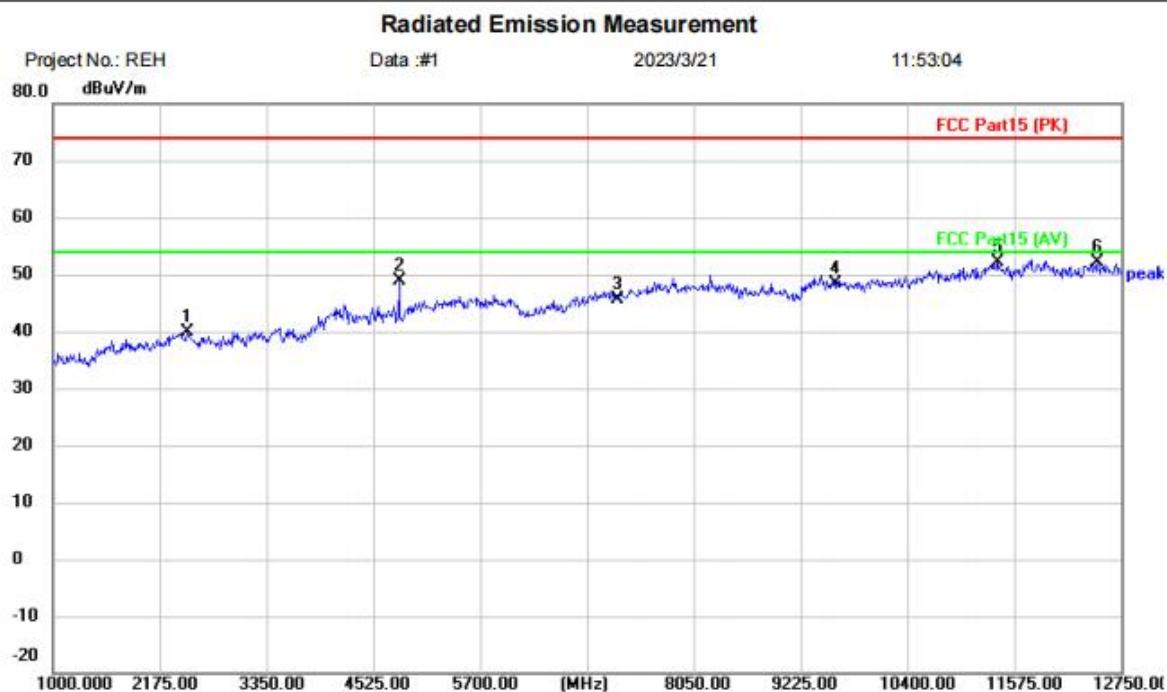
Test Result: Pass

[TestMode: TX]; [Polarity: Vertical]


Test Result: Pass

Above 1GHz:

[TestMode: TX low channel]; [Polarity: Horizontal]

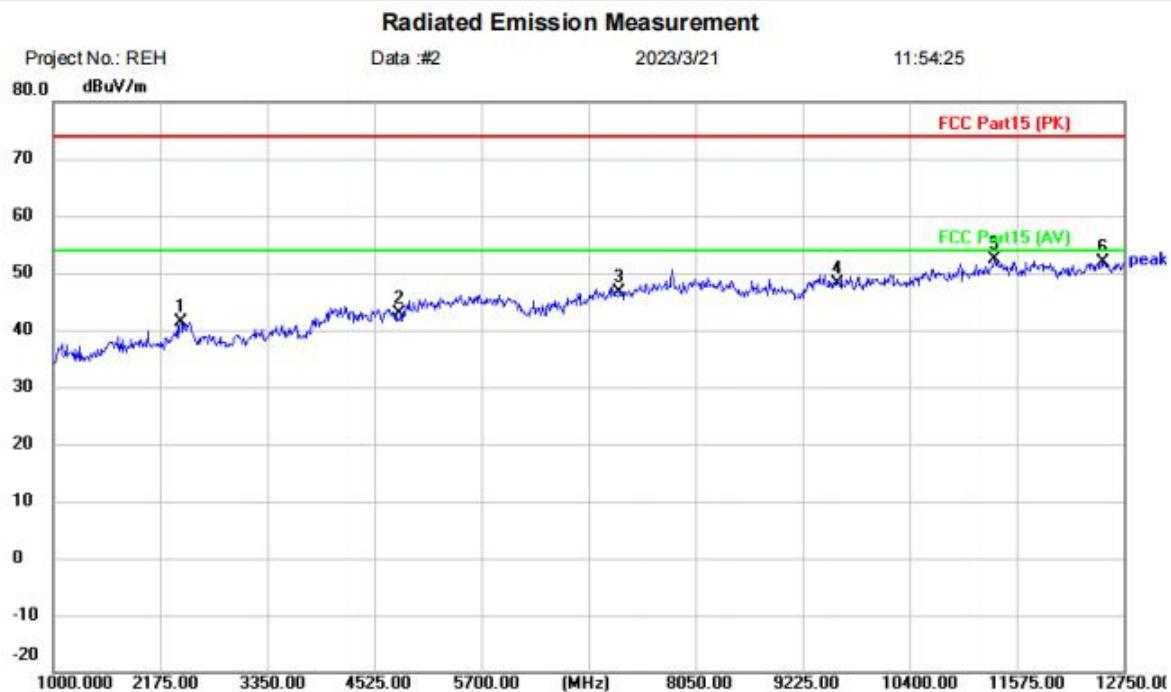


Site Polarization: **Horizontal** Temperature: (C)
Limit: FCC Part15 (PK) Power: Humidity: %RH
EUT: Jaffas2 Bluetooth Module
M/N: CBM002 v2
Mode: BLE-TX-L
Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1		2480.500	41.84	-2.05	39.79	74.00	-34.21	peak	
2		4807.000	44.91	4.07	48.98	74.00	-25.02	peak	
3		7206.000	37.69	7.93	45.62	74.00	-28.38	peak	
4		9608.000	37.47	10.90	48.37	74.00	-25.63	peak	
5		11387.000	38.42	13.63	52.05	74.00	-21.95	peak	
6	*	12491.500	38.26	13.87	52.13	74.00	-21.87	peak	

Test Result: Pass

[TestMode: TX low channel]; [Polarity: Vertical]

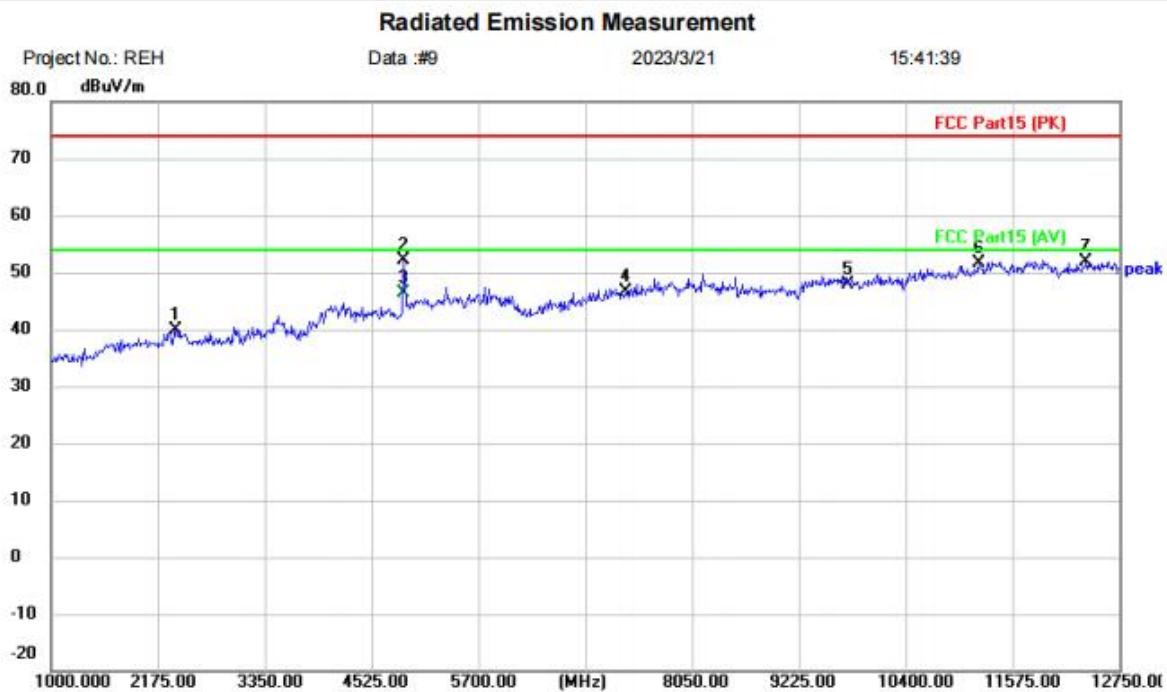


Site	Polarization: <i>Vertical</i>	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment Limit				Over	Detector	Comment
					MHz	dBuV	dB/m	dBuV/m			
1		2398.250	42.56	-1.14	41.42	74.00	-32.58	peak			
2		4804.000	38.88	4.05	42.93	74.00	-31.07	peak			
3		7206.000	38.68	7.93	46.61	74.00	-27.39	peak			
4		9608.000	37.33	10.90	48.23	74.00	-25.77	peak			
5	*	11328.250	38.81	13.59	52.40	74.00	-21.60	peak			
6		12526.750	37.99	13.87	51.86	74.00	-22.14	peak			

Test Result: Pass

[TestMode: TX middle channel]; [Polarity: Horizontal]

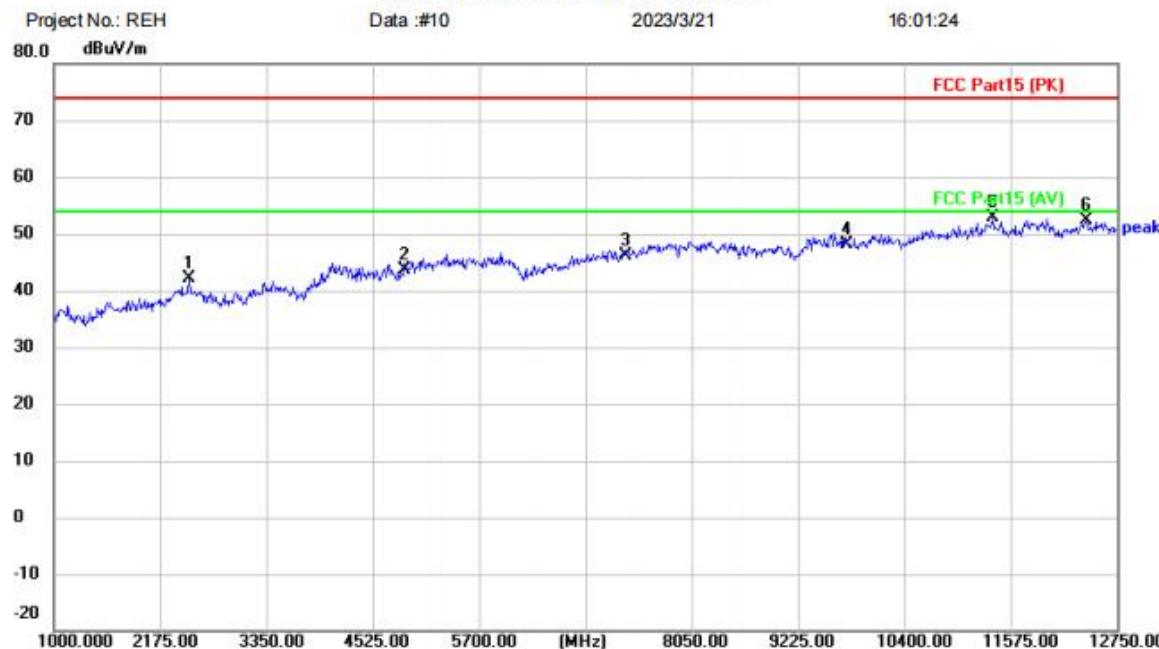


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-M		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over					
							MHz	dBuV	dB/m	dBuV/m	dB	Detector
1		2363.000	41.19	-1.39	39.80	74.00	-34.20				peak	
2		4877.500	47.71	4.35	52.06	74.00	-21.94				peak	
3	*	4877.500	42.02	4.35	46.37	54.00	-7.63				AVG	
4		7326.000	38.31	8.21	46.52	74.00	-27.48				peak	
5		9768.000	36.56	11.31	47.87	74.00	-26.13				peak	
6		11199.000	38.11	13.54	51.65	74.00	-22.35				peak	
7		12385.750	37.92	13.89	51.81	74.00	-22.19				peak	

Test Result: Pass

[TestMethod: TX middle channel]; [Polarity: Vertical]

Radiated Emission Measurement

Site Polarization: **Vertical** Temperature: (C)

Limit: FCC Part15 (PK) Power: Humidity: %RH

EUT: Jaffas2 Bluetooth Module

M/N: CBM002 v2

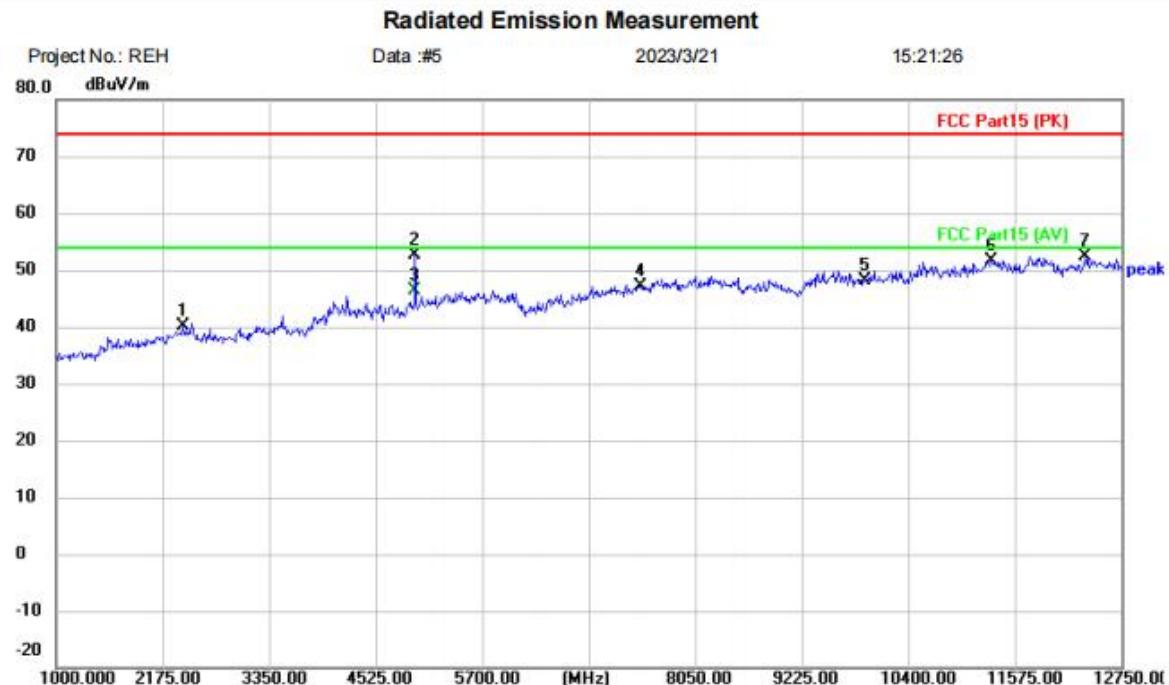
Mode: BLE-TX-M

Note:

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB/m	dBuV/m	dB			
1		2492.250	44.26	-2.17	42.09	74.00	-31.91	peak	
2		4884.000	39.20	4.37	43.57	74.00	-30.43	peak	
3		7326.000	37.88	8.21	46.09	74.00	-27.91	peak	
4		9768.000	36.93	11.31	48.24	74.00	-25.76	peak	
5 *		11375.250	39.14	13.62	52.76	74.00	-21.24	peak	
6		12409.250	38.48	13.88	52.36	74.00	-21.64	peak	

Test Result: Pass

[TestMode: TX High channel]; [Polarity: Horizontal]

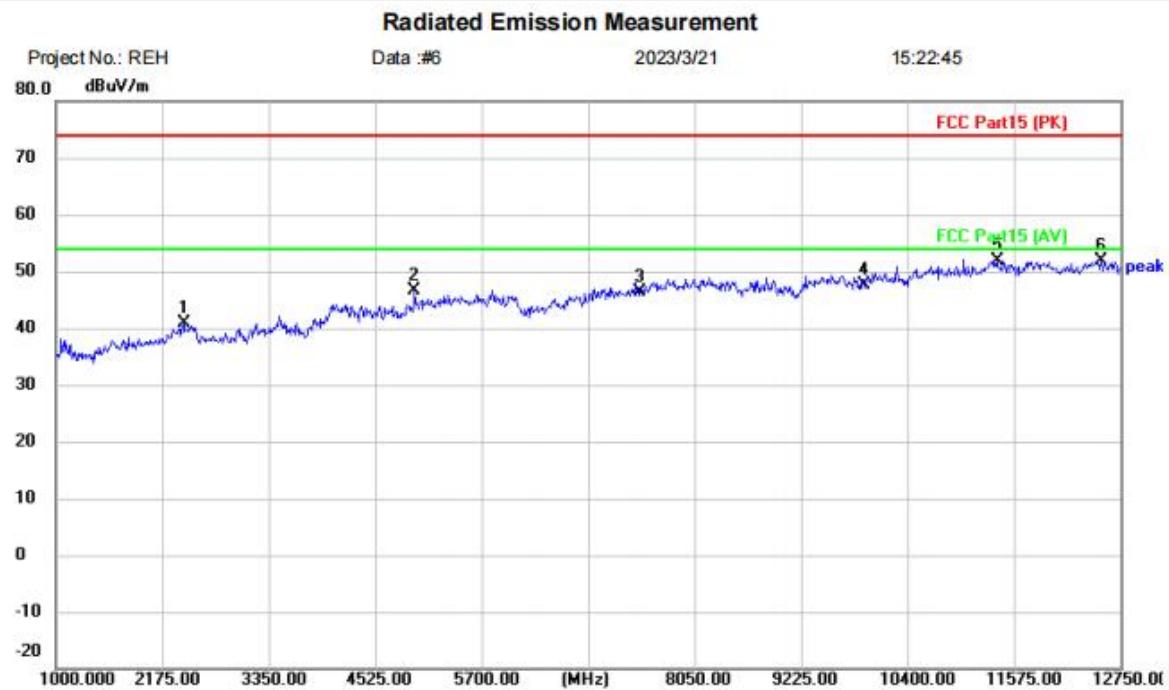


Site	Polarization: <i>Horizontal</i>	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
							dBuV	dB/m	dBuV/m	dB	Detector
1		2398.250	41.25	-1.14	40.11	74.00	-33.89	peak			
2		4959.750	47.19	5.42	52.61	74.00	-21.39	peak			
3	*	4959.750	40.95	5.42	46.37	54.00	-7.63	AVG			
4		7440.000	38.54	8.48	47.02	74.00	-26.98	peak			
5		9920.000	36.38	11.69	48.07	74.00	-25.93	peak			
6		11316.500	38.06	13.59	51.65	74.00	-22.35	peak			
7		12350.500	38.39	13.88	52.27	74.00	-21.73	peak			

Test Result: Pass

[TestMode: TX High channel]; [Polarity: Vertical]



Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over				
							dBuV	dB/m	dBuV/m	dB	Detector
1		2410.000	42.14	-1.26	40.88	74.00	-33.12	peak			
2		4959.750	41.15	5.42	46.57	74.00	-27.43	peak			
3		7440.000	37.88	8.48	46.36	74.00	-27.64	peak			
4		9920.000	35.86	11.69	47.55	74.00	-26.45	peak			
5	*	11387.000	38.28	13.63	51.91	74.00	-22.09	peak			
6		12538.500	37.91	13.87	51.78	74.00	-22.22	peak			

Test Result: Pass

12 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

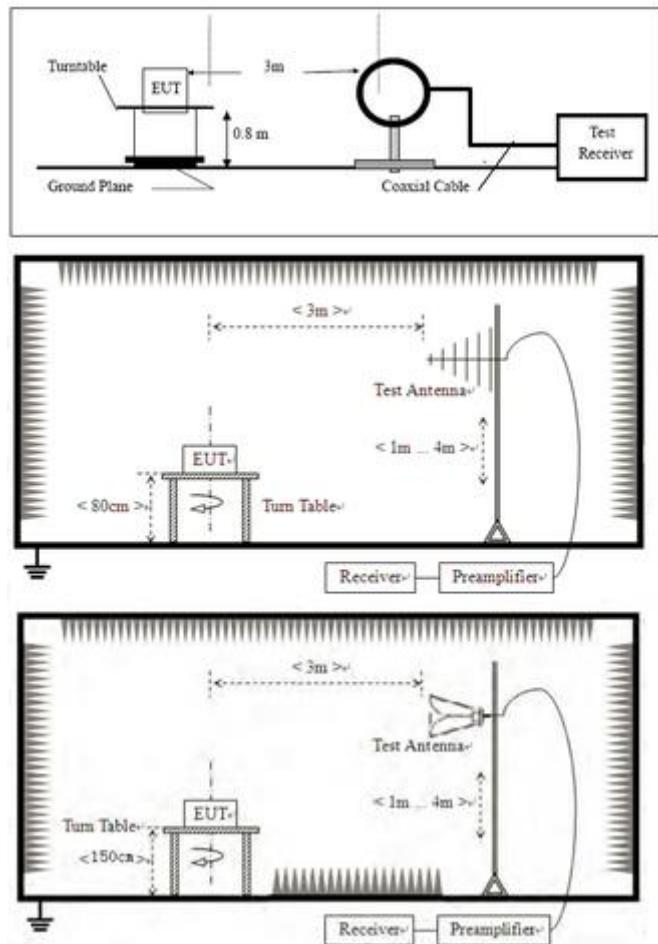
Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25°C
Humidity	60%

12.1 LIMITS

Frequency(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

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

12.2 BLOCK DIAGRAM OF TEST SETUP



12.3 PROCEDURE

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

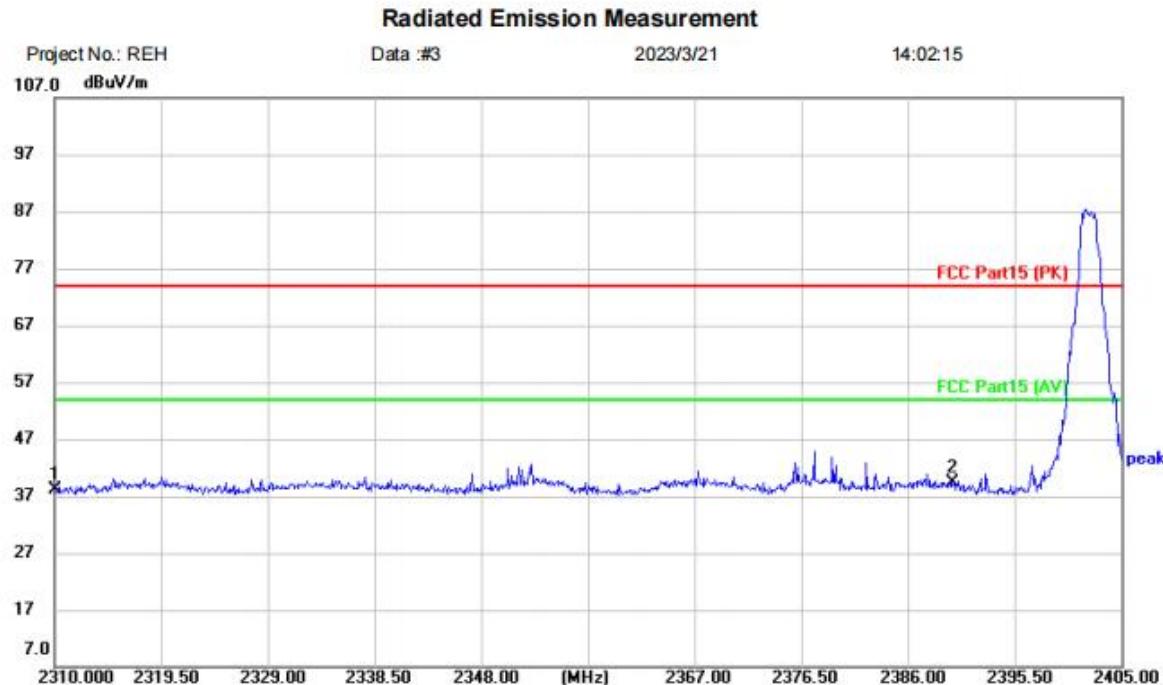
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

BlueAsia

12.4 TEST DATA

CBM002 v2:

[TestMode: TX low channel]; [Polarity: Horizontal]

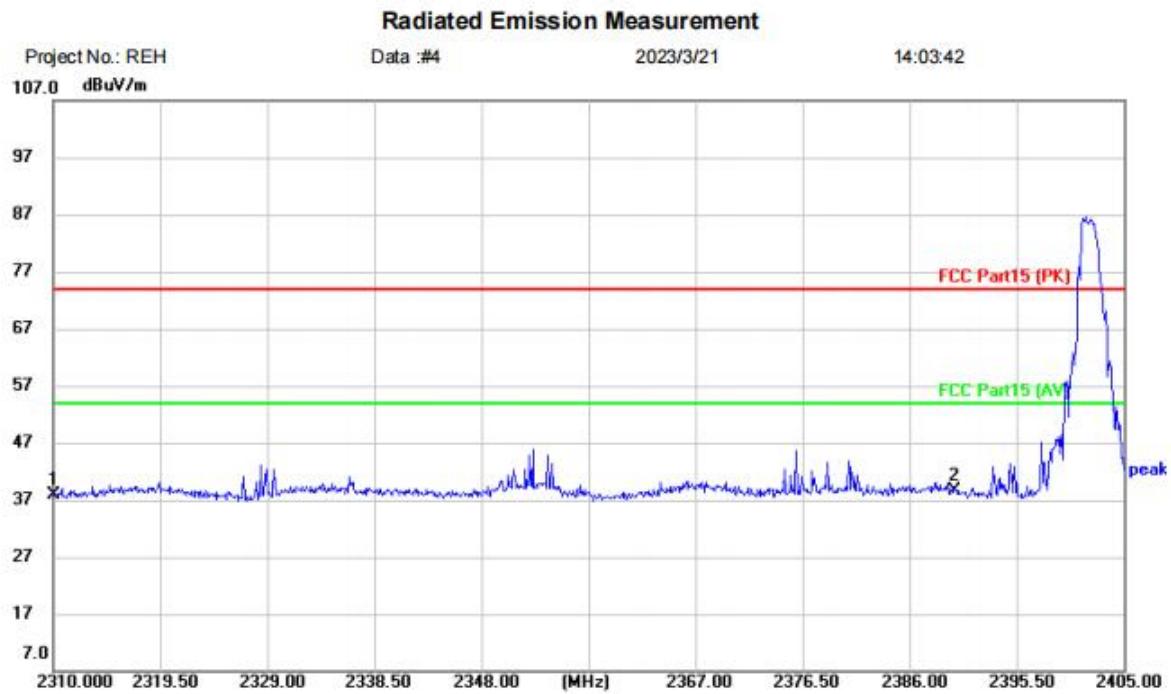


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over					
							MHz	dBuV	dB/m	dBuV/m	dB	Detector
1		2310.000	42.31	-4.27	38.04	74.00	-35.96		peak			
2	*	2390.000	43.21	-3.82	39.39	74.00	-34.61		peak			

Test Result: Pass

[TestMode:TX low channel]; [Polarity: Vertical]

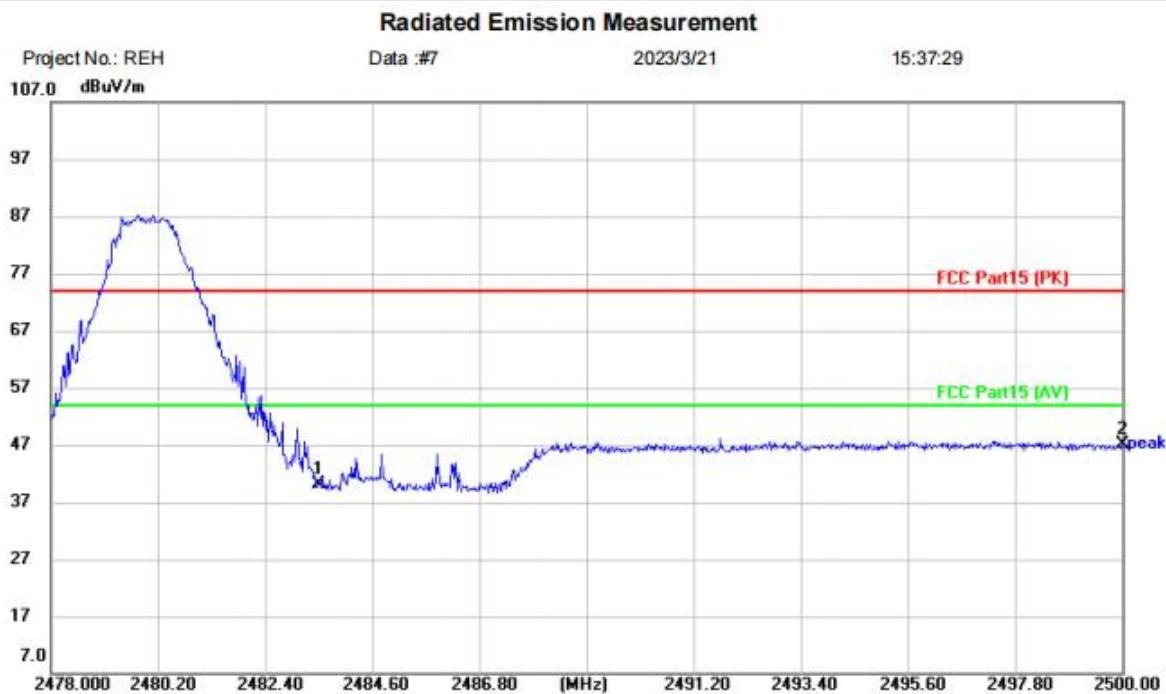


Site	Polarization: Vertical	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-L		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
							dB	Detector	Comment
1		2310.000	42.22	-4.27	37.95	74.00	-36.05	peak	
2	*	2390.000	42.47	-3.82	38.65	74.00	-35.35	peak	

Test Result: Pass

[TestMode: TX High channel]; [Polarity: Horizontal]

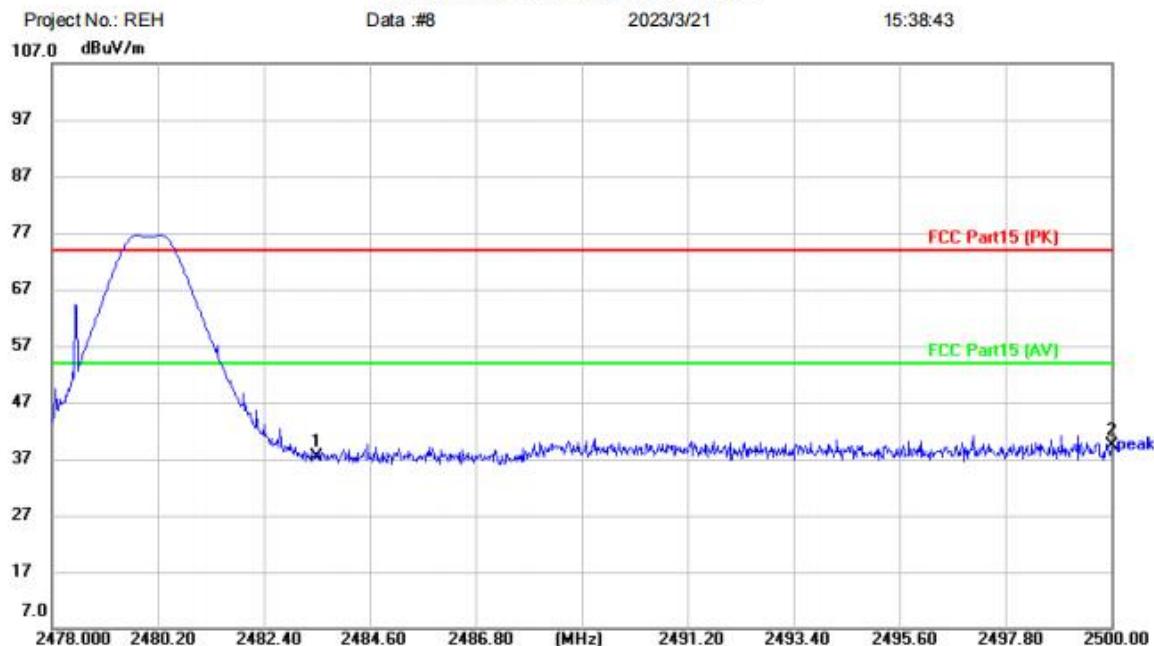


Site	Polarization: Horizontal	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: Jaffas2 Bluetooth Module		
M/N: CBM002 v2		
Mode: BLE-TX-H		
Note:		

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment				Over
					Limit	dBuV/m	dBuV/m	dB	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	44.17	-3.96	40.21	74.00	-33.79	peak	
2	*	2500.000	51.05	-4.00	47.05	74.00	-26.95	peak	

Test Result: Pass

[TestMethod:TX High channel]; [Polarity: Vertical]

Radiated Emission Measurement


Site

Polarization: **Vertical**

Temperature: (C)

Limit: FCC Part15 (PK)

Power:

Humidity: %RH

EUT: Jaffas2 Bluetooth Module

M/N: CBM002 v2

Mode: BLE-TX-H

Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dB	Detector	Comment
1		2483.500	41.38	-3.96	37.42	74.00	-36.58	peak
2	*	2500.000	43.37	-4.00	39.37	74.00	-34.63	peak

Test Result: Pass

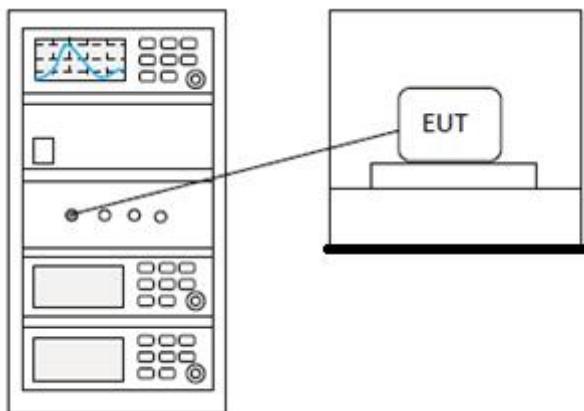
13 CONDUCTED PEAK OUTPUT POWER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX
Tester	Charlie
Temperature	25 °C
Humidity	60%

13.1 LIMITS

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

13.2 BLOCK DIAGRAM OF TEST SETUP



13.3 TEST DATA

Pass: Please Refer To Appendix: Appendix1 For Details

BlueAsia

14 APPENDIX

Appendix1

14.1 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	BLE 1M	2402	Ant1	-1.483	30	Pass
NVNT	BLE 1M	2442	Ant1	-0.492	30	Pass
NVNT	BLE 1M	2480	Ant1	-0.915	30	Pass

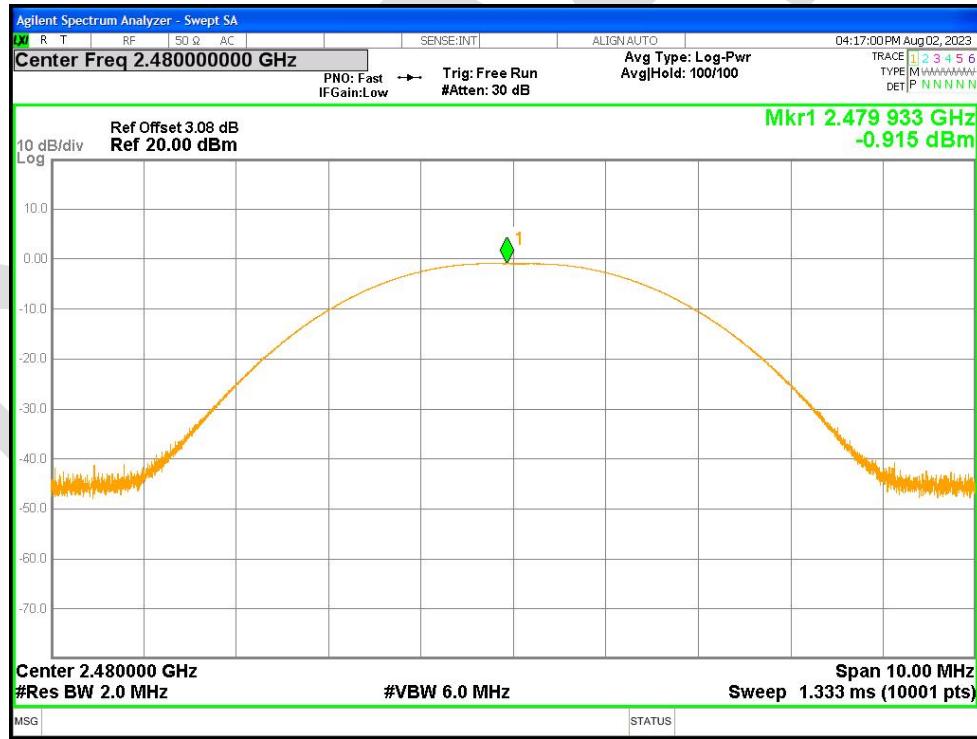
Power NVNT BLE 1M 2402MHz Ant1



Power NVNT BLE 1M 2442MHz Ant1



Power NVNT BLE 1M 2480MHz Ant1



APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Reference to the test Attachment setup photos

BlueAsia

APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202303-A6501

BlueAsia

----END OF REPORT----

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of BlueAsia, this report can't be reproduced except in full.

BlueAsia