

TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 1 of 21



CUSTOMER NAME: DONGGUAN LVLUO ENVIRONMENTAL TECHNOLOGY CO., LTD.
ADDRESS: NO.5 ZHAOXING ROAD, SUBIAN VILLAGE, CHASHAN TOWN,
DONGGUAN CITY, GUANGDONG

Sample Name : AFC20 SUSHI TRAY
Material & Mark : BAGASSE PULP + BAMBOO PULP+PLA MEMBRANE
Product Specification : AFC20 SUSHI TRAY: 192*117*28 MM
Product or Lot No. : AFC20 SUSHI TRAY
Other information : AFC30 SUSHI TRAY:240*117*28MM;
AFC40 SUSHI TRAY:186*186*37MM
Manufacturer : DONGGUAN LVLUO ENVIRONMENTAL TECHNOLOGY CO., LTD.
Buyer : FOSHAN CHANGZHOU IMPORT & EXPORT TRADE CO., LTD

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

Date of Receipt : Jul 19, 2022
Testing Start Date : Jul 19, 2022
Testing End Date : Nov 03, 2022
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Guangzhou Branch
Testing Center

Quincey Lee
Authorized signatory



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TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 2 of 21

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Biodegradation Test (Composting Method)	ASTM D6400-21 Section 6.3 & ASTM D5338- 15(2021)	See result	/
2	Major Composition Qualitative Analysis	ASTM E1252-98(2021)	See result	/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 3 of 21

1.Test Item: Biodegradation Test (Composting Method)

Sample Description: Tray

Test Method: ASTM D6400-21 Section 6.3 & ASTM D5338-15(2021)

Test Condition:

Test temperature: (58±2)°C

Composting vessel volume: 3.8L

Numbers of composting vessels:

3 vessels for test material

3 vessels for positive reference material

3 vessels for negative reference material

3 vessels for blank

Positive reference material: Cellulose (HPLC)

Negative reference material: Polyethylene raw material

Source of compost: Self made

Test period: 60 days

Test date: 2022-08-10~2022-10-09

Test Result:

Sample		Percentage of biodegradation (See note 1)	Average percentage of biodegradation	Percentage of biodegradation relative to the reference (See note 2)
Test material	#1	68.1%	67.3%	80.2%
	#2	65.3%		77.0%
	#3	68.5%		80.7%
Positive reference material	#1	87.7%	84.9%	/
	#2	80.9%		/
	#3	86.1%		/
Negative reference material	#1	1.6%	1.6%	/
	#2	2.1%		/
	#3	1.3%		/



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TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 4 of 21

Validity criteria:	Result	Determine
The degree of biodegradation of the positive reference material is more than 70 % after 45 days	70.9%	Test is valid
The difference between the percentage of biodegradation for the positive reference material in the different vessels is less than 20 % at the end of the test	The differences were 6.8%, 5.2%, 1.6%	

Sample	Average percentage of biodegradation	Standard error (See note 3)	95% Confidence limits (See note 4)
Test material	67.3%	5.77%	16.0%
Positive reference material	84.9%	8.81%	24.5%
Negative reference material	1.6%	2.38%	6.6%

Original data:

Date	Tested sample mean CO ₂ production (g/ vessel)	Positive reference sample mean CO ₂ production (g/ vessel)	Negative reference sample mean CO ₂ production (g/ vessel)	Blank sample mean CO ₂ production (g/ vessel)	Tested sample mean degree of biodegradation	Positive reference sample mean degree of biodegradation	Negative reference sample mean degree of biodegradation
1	5.61	3.61	2.78	3.15	1.6%	0.3%	-0.1%
2	18.22	16.72	4.99	5.08	8.4%	7.6%	0.0%
3	26.55	27.32	6.68	6.90	12.6%	13.4%	-0.1%
4	31.15	32.56	8.06	8.16	14.7%	16.0%	0.0%
5	35.74	37.79	9.44	9.43	16.9%	18.6%	0.0%



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No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 5 of 21

Date	Tested sample mean CO ₂ production (g/ vessel)	Positive reference sample mean CO ₂ production (g/ vessel)	Negative reference sample mean CO ₂ production (g/ vessel)	Blank sample mean CO ₂ production (g/ vessel)	Tested sample mean degree of biodegradation	Positive reference sample mean degree of biodegradation	Negative reference sample mean degree of biodegradation
6	39.46	41.92	10.51	10.57	18.5%	20.6%	0.0%
7	42.82	46.62	11.56	11.58	20.0%	23.0%	0.0%
8	45.39	50.62	12.76	12.50	21.1%	25.0%	0.1%
9	47.66	54.50	13.69	13.44	21.9%	27.0%	0.1%
10	50.09	58.39	14.60	14.19	23.0%	29.0%	0.1%
11	52.52	62.27	15.50	14.94	24.1%	31.1%	0.2%
12	54.95	66.16	16.40	15.69	25.2%	33.1%	0.2%
13	57.12	69.03	17.22	16.38	26.1%	34.6%	0.3%
14	59.16	71.82	18.06	17.04	27.0%	36.0%	0.3%
15	61.31	74.69	19.05	17.72	27.9%	37.4%	0.4%
16	62.89	77.04	19.71	18.23	28.6%	38.6%	0.5%
17	64.90	78.76	20.62	18.88	29.5%	39.3%	0.6%
18	66.44	81.08	21.39	19.35	30.2%	40.5%	0.6%
19	67.99	83.40	22.16	19.83	30.9%	41.8%	0.7%
20	69.56	85.69	22.82	20.39	31.5%	42.9%	0.8%
21	71.02	87.90	23.46	20.80	32.2%	44.1%	0.8%
22	72.72	89.30	24.26	21.26	33.0%	44.7%	1.0%
23	74.75	91.03	24.92	21.72	34.0%	45.5%	1.0%
24	77.32	93.35	25.73	22.46	35.2%	46.6%	1.0%
25	79.61	95.42	26.64	23.06	36.2%	47.5%	1.1%
26	81.89	97.49	27.55	23.66	37.3%	48.5%	1.2%
27	83.88	99.21	28.24	24.19	38.3%	49.3%	1.3%



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Page: 6 of 21

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29	87.62	102.39	29.85	25.15	40.0%	50.7%	1.5%
30	88.49	103.09	30.54	25.38	40.4%	51.0%	1.6%
31	89.13	105.05	31.56	25.55	40.7%	52.2%	1.9%
32	89.78	107.02	32.57	25.72	41.0%	53.4%	2.2%
33	92.24	109.21	33.46	26.52	42.1%	54.3%	2.2%
34	95.32	110.42	34.34	27.29	43.6%	54.6%	2.2%
35	98.09	113.95	35.10	28.11	44.8%	56.4%	2.2%
36	100.68	117.60	36.02	28.85	46.0%	58.3%	2.3%
37	103.24	121.45	36.78	29.64	47.2%	60.3%	2.3%
38	105.59	124.27	37.32	30.34	48.2%	61.7%	2.2%
39	107.83	127.13	38.49	31.25	49.1%	63.0%	2.3%
40	110.07	129.99	39.66	32.17	49.9%	64.3%	2.4%
41	112.36	132.90	40.46	32.93	50.9%	65.7%	2.4%
42	114.31	135.62	41.18	33.66	51.7%	67.0%	2.4%
43	116.80	138.77	42.01	34.48	52.7%	68.5%	2.4%
44	118.91	141.17	42.70	35.20	53.6%	69.6%	2.4%
45	121.32	143.94	43.41	36.04	54.7%	70.9%	2.3%
47	125.84	149.16	44.72	37.59	56.5%	73.3%	2.3%
50	133.13	156.71	46.56	40.20	59.6%	76.5%	2.0%
53	141.06	164.96	48.94	43.01	62.8%	80.1%	1.9%
57	146.25	170.32	50.62	44.96	64.9%	82.3%	1.8%
60	152.48	176.65	52.60	47.45	67.3%	84.9%	1.6%



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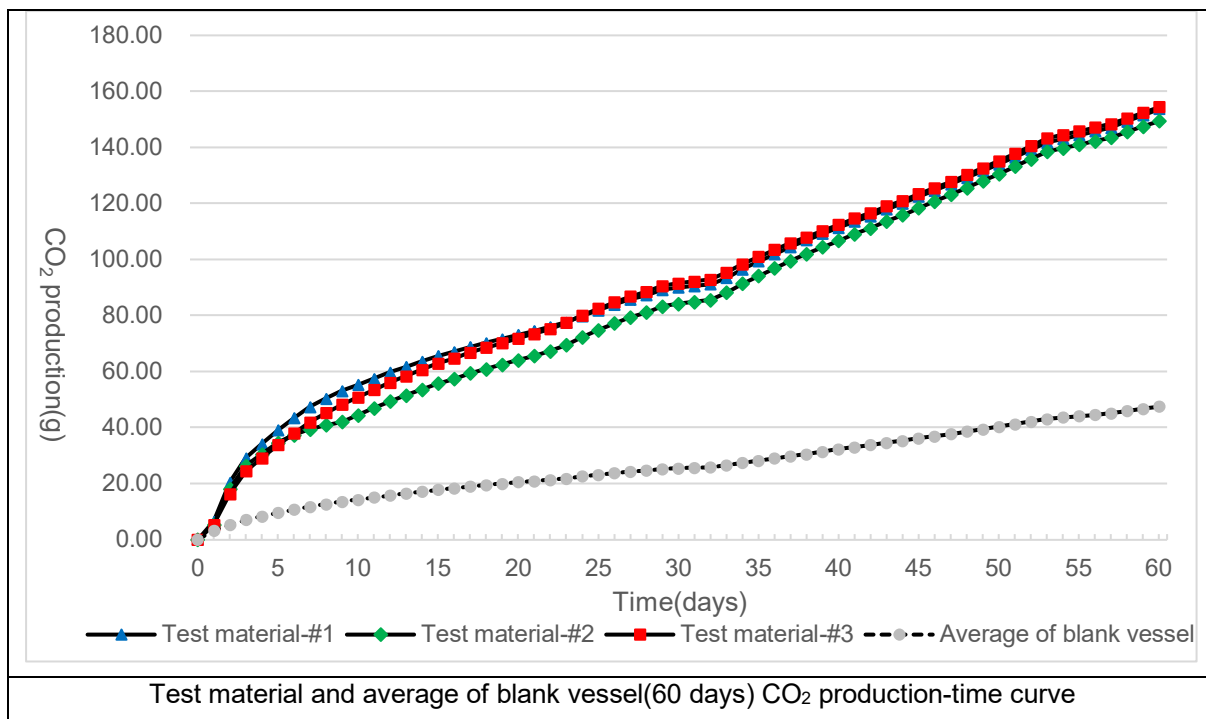
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No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 7 of 21



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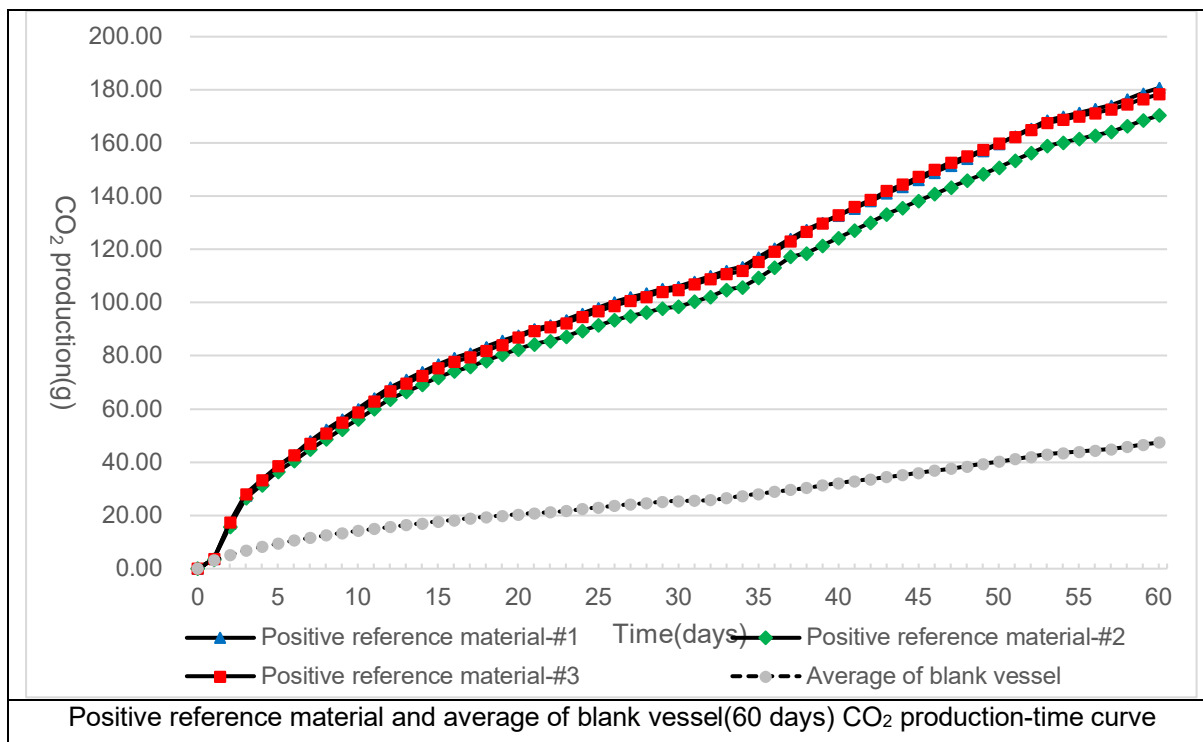
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Date : Nov 03, 2022

Page: 8 of 21



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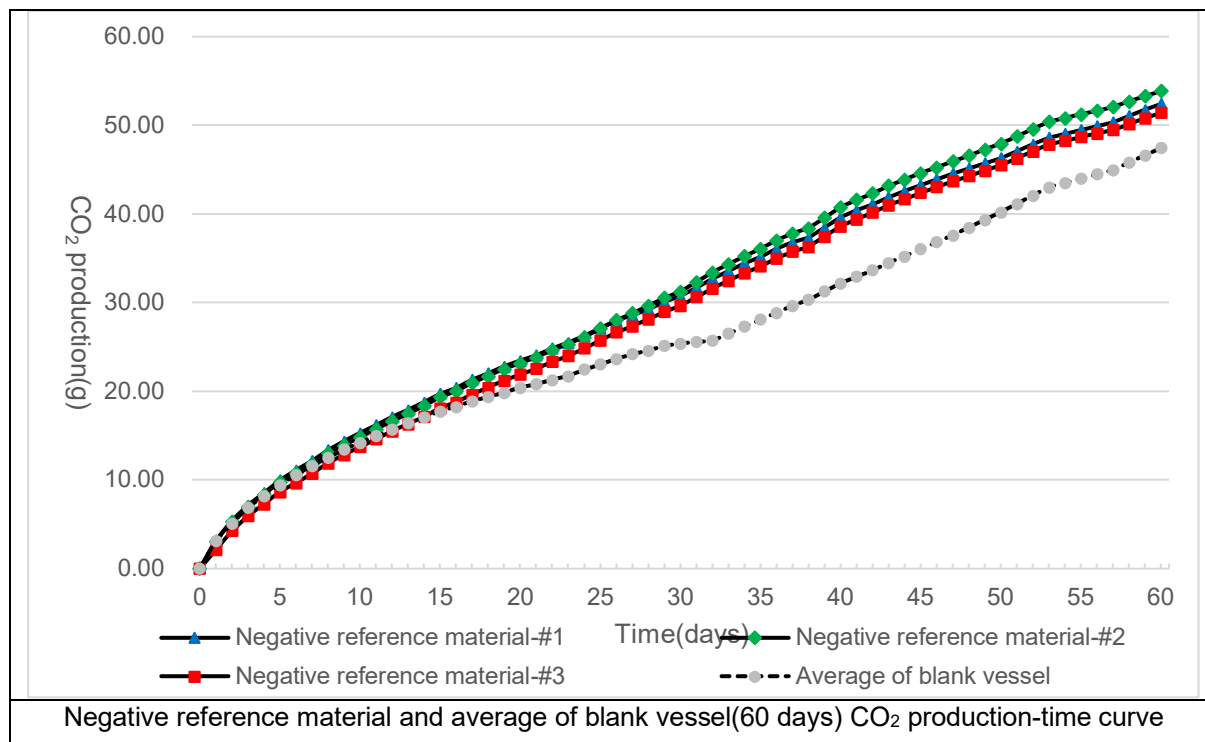
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Date : Nov 03, 2022

Page: 9 of 21



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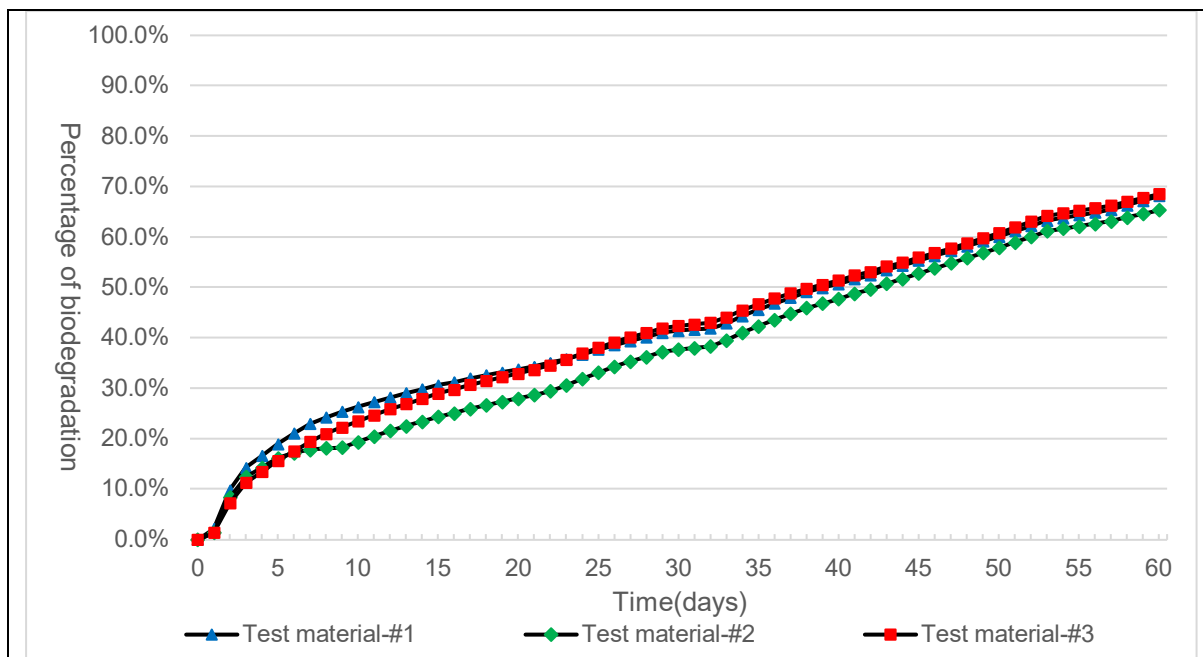
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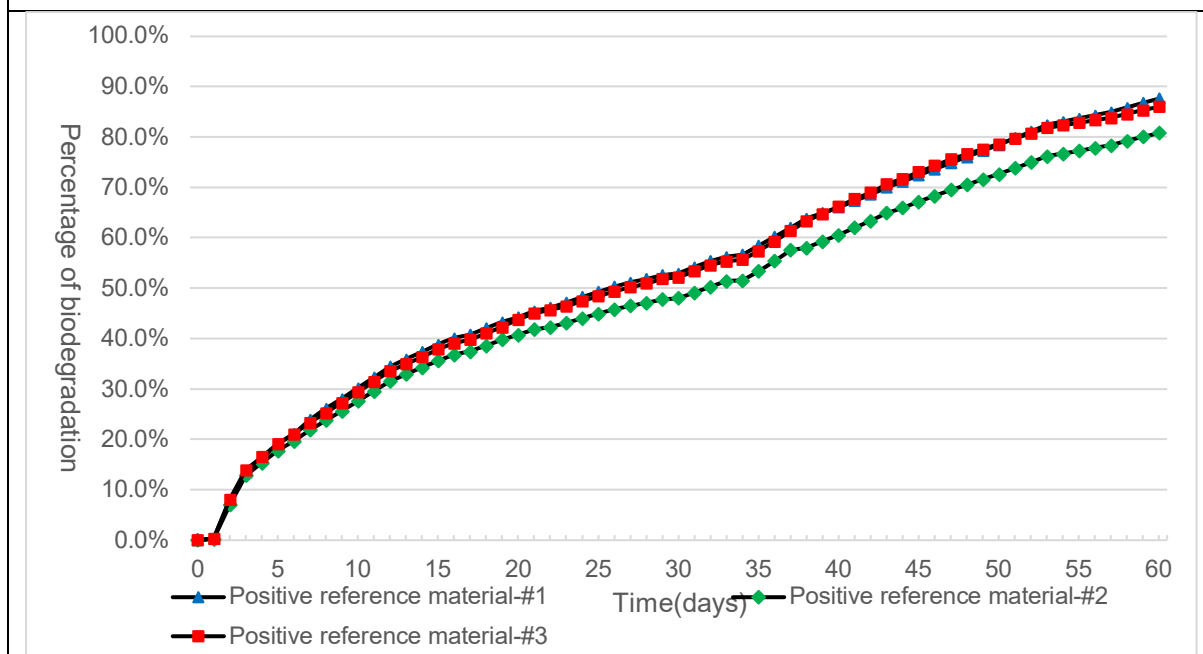
No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 10 of 21



Each vessel for test material(60 days) percentage of biodegradation-time curve



Each vessel for positive reference material(60 days) percentage of biodegradation-time curve



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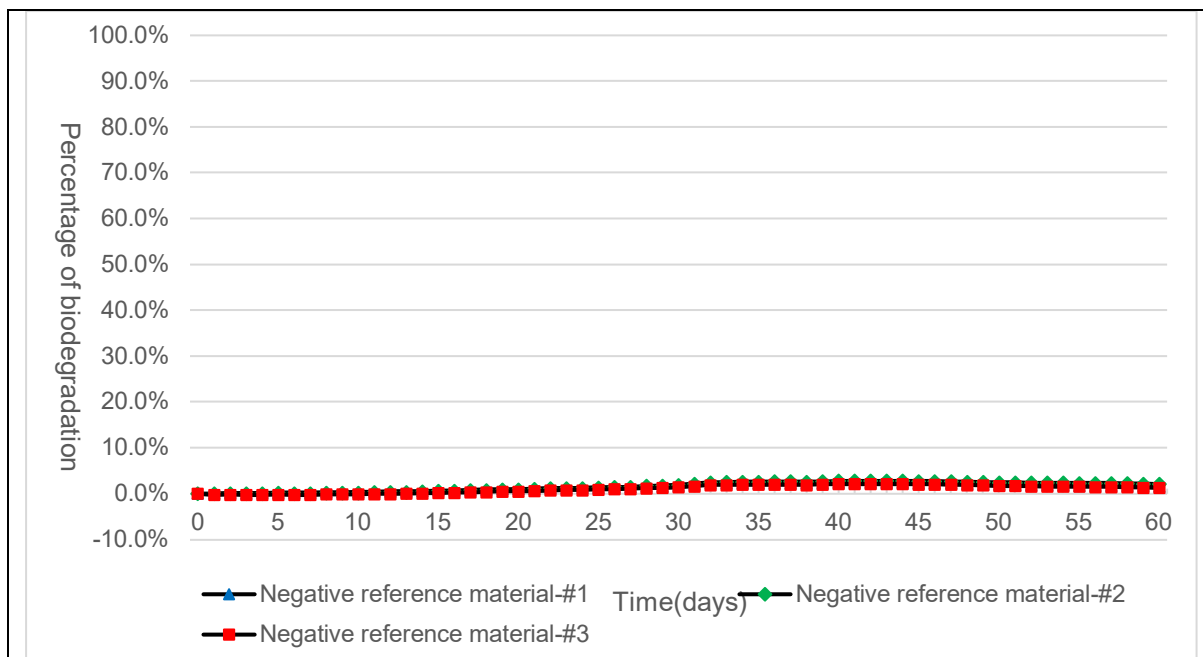
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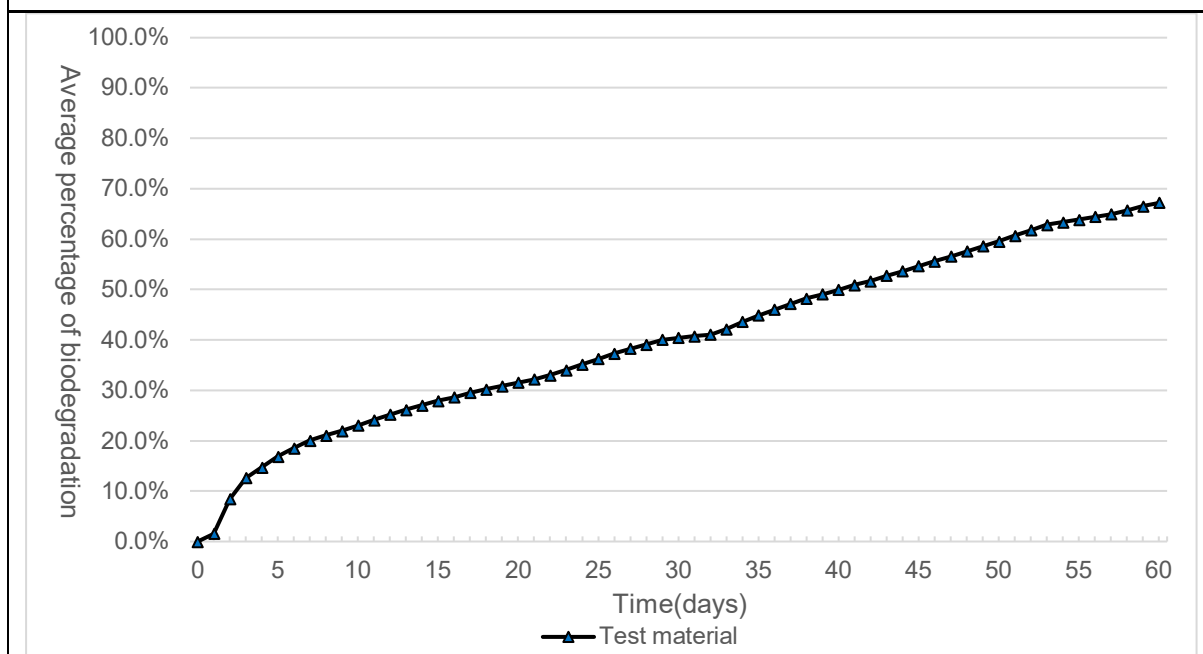
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Date : Nov 03, 2022

Page: 11 of 21



Each vessel for negative reference material(60 days) percentage of biodegradation-time curve



Test material(60 days) average percentage of biodegradation-time curve



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TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 12 of 21

Note:

1. Percentage of biodegradation (%) = [Each vessel total CO₂ production (g) - Average of blank vessel total CO₂ production (g)] / Material theoretical amount of CO₂ production (g) × 100.
2. Percentage of biodegradation relative to the reference (%) = Each vessel percentage of biodegradation for test material (%) / Average percentage of biodegradation for positive reference material (%) × 100.
3. Standard error (%) = $[(S^2_{\text{test}} / n_1) + (S^2_{\text{blank}} / n_2)]^{1/2} \times 100 / C_i$, where: n₁ and n₂ are the number of replicate test and control digesters respectively, S is the standard deviation of the total gaseous carbon produced, C_i is the amount of carbon in test compound added.
4. 95% Confidence limits (%) = t × standard error (%), where: t = 2.776.
5. Method of CO₂ determination: The CO₂ in the exhaust air was determined by measuring the gain in mass of CO₂ trapped by absorbents.
6. Properties of test material:

Sample	Dry solids(g)	Total dry solids(%)	Total organic carbon(TOC) in dry solids (%)	Theoretical amount of CO ₂ production (CO ₂ g / vessel)
Tested material	100	91.8	42.6	156.1
Positive reference material	100	95.4	41.5	152.2
Negative reference material	100	99.9	85.7	314.3

7. Properties of compost:

Dry solids (g)	Total dry solids(%)	Volatile solids(%)	Total organic carbon (TOC) in dry solids (%)	Total organic nitrogen in dry solids (%)	The ratio between organic carbon and nitrogen	pH	After 10 days of incubation, the blank produced carbon dioxide (mean values)
600	56.6	30.2	13.00	0.75	17.3	8.0	78.3mg CO ₂ /g volatile solids



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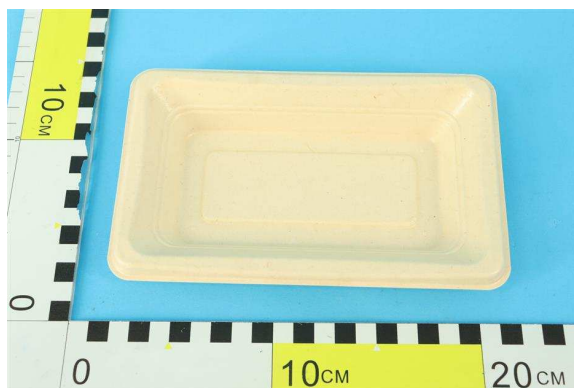
TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 13 of 21

Test Photo:



Original sample A(AFC-20)



Before test



After test



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TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 14 of 21

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Material Biodegradability Test System	TG-2000-AT	GZMR-AG-E268	2021-08-05	2022-08-04
Material Biodegradability Test System	TG-2000-AT	GZMR-AG-E250	2022-07-25	2023-07-24
Electron balance	0~6000g/1g	GZMR-AG-E107-02	2022-06-24	2023-06-23
Electron balance	AL204	GZMR-AG-E107	2022-03-25	2023-03-24
Electron balance	HB-A-1000	GZMR-AG-E237-01	2021-10-22	2022-10-21
High Temperature Furnace	F0610C	GZMR-PL-E058-07	2021-10-28	2022-10-27
pH Meter	S220	GZMR-AG-E040-03	2022-06-23	2023-06-22
Organic element analyzer	Flash SMART	GZMR-PL-E331	2022-05-24	2023-05-23



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TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 15 of 21

2.Test Item: Major Composition Qualitative Analysis

Sample Description: Tray

Test Method: ASTM E1252-98(2021), analysis was performed by FTIR.

Sample Technique: ATR

Test Result:

Sample	Test result	Conclusion
Test sample (AFC-20)	Cellulose (FTIR spectrum see Fig.1)	After major composition qualitative analysis by laboratory, based on the analysis result(s) of FTIR Spectra etc. there was no significant difference between the products provided by the customer.
Finished product 1 (AFC-40)	Cellulose (FTIR spectrum see Fig.2)	
Finished product 2 (AFC-30)	Cellulose (FTIR spectrum see Fig.3)	



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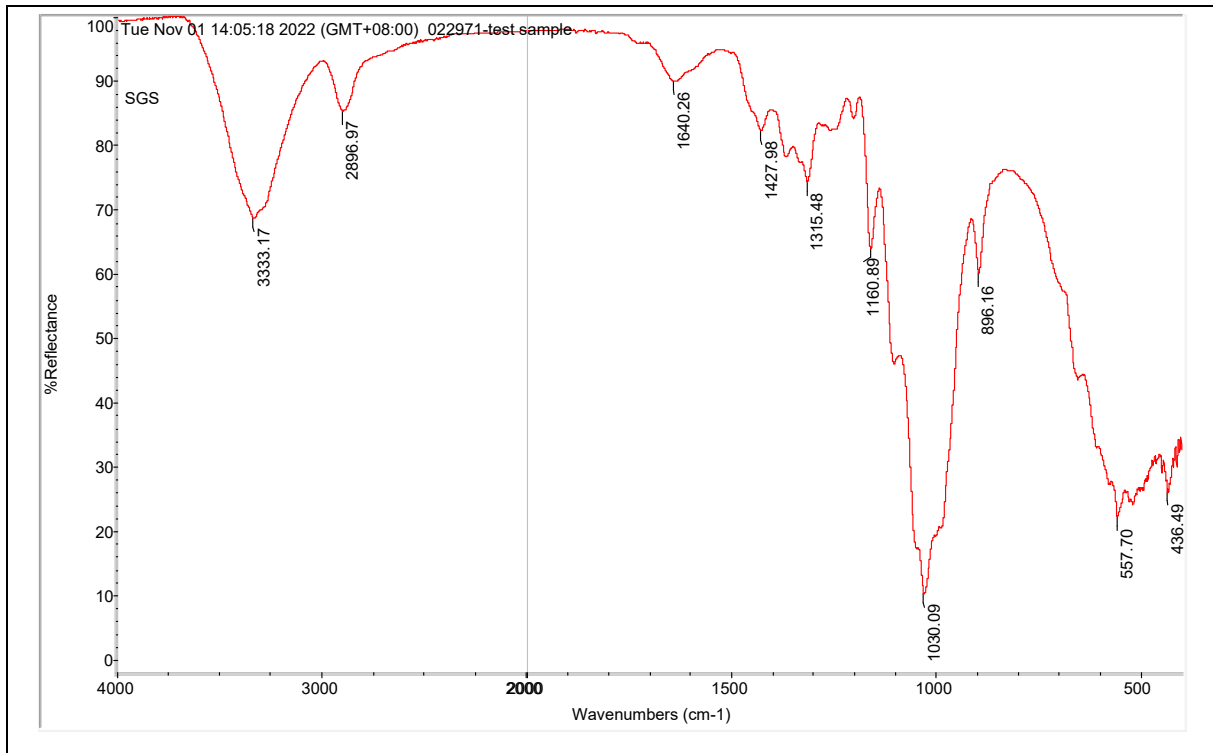
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Date : Nov 03, 2022

Page: 16 of 21

Fig.1: test sample(AFC-20)



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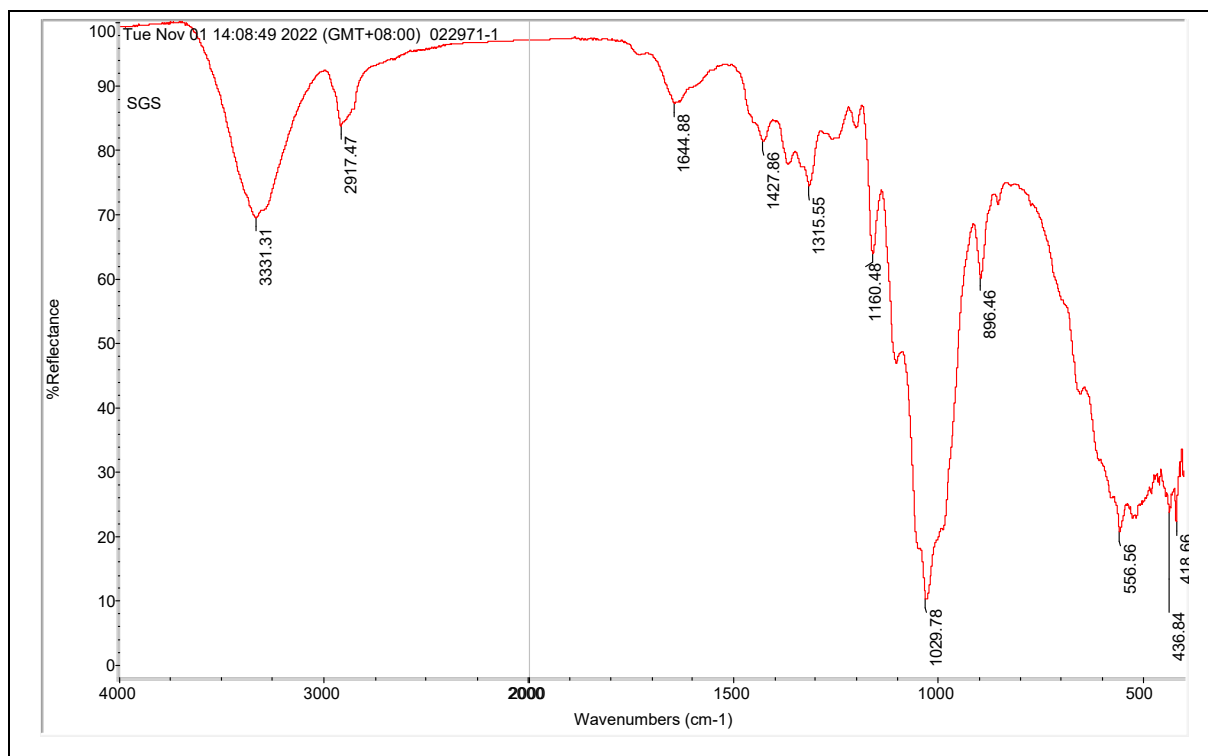
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No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 17 of 21

Fig.2: finished product 1(AFC-40)



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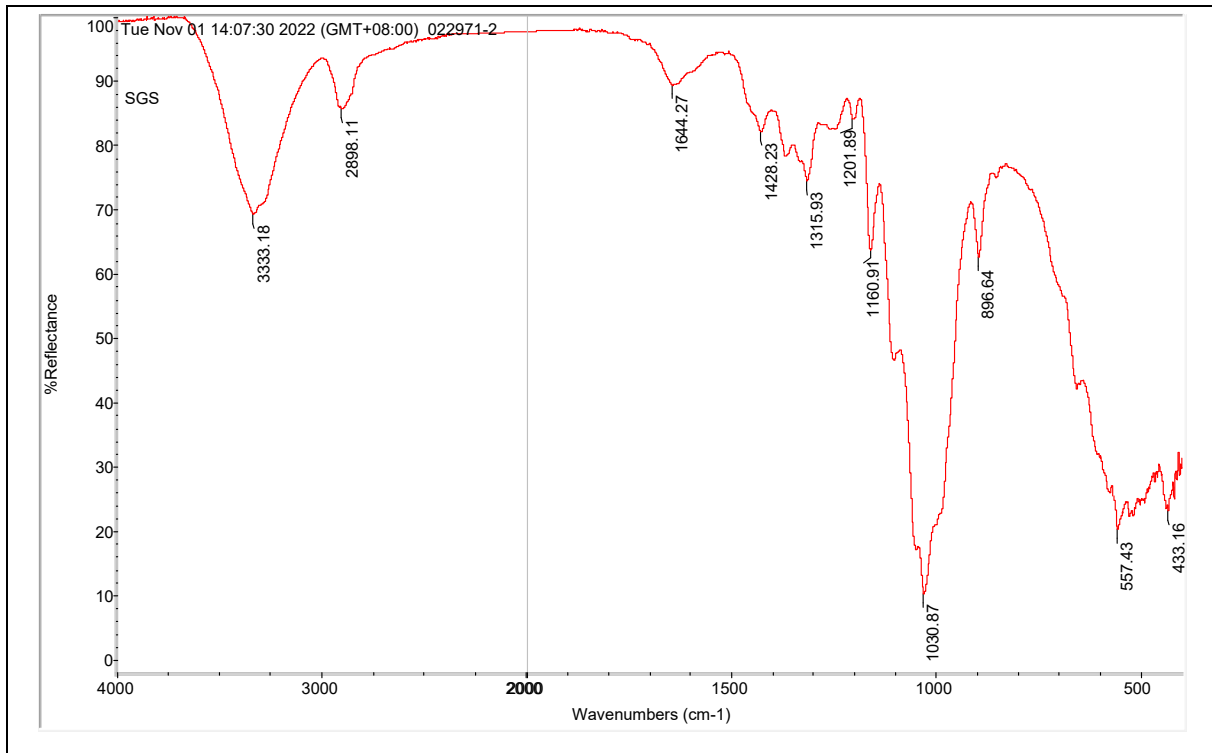
TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 18 of 21

Fig.3: finished product 2(AFC-30)



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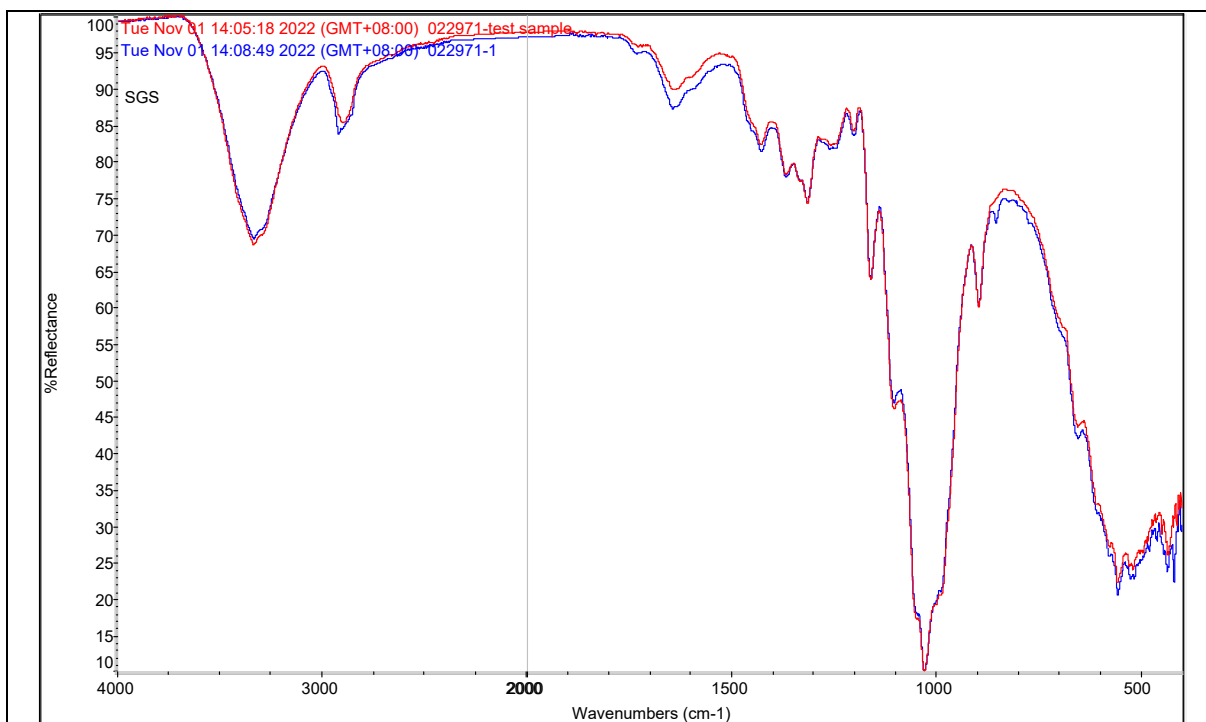
TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 19 of 21

Fig.4: test sample(AFC-20) and finished product 1(AFC-40)



Red curve: test sample(AFC-20)

Blue curve: finished product 1(AFC-40)



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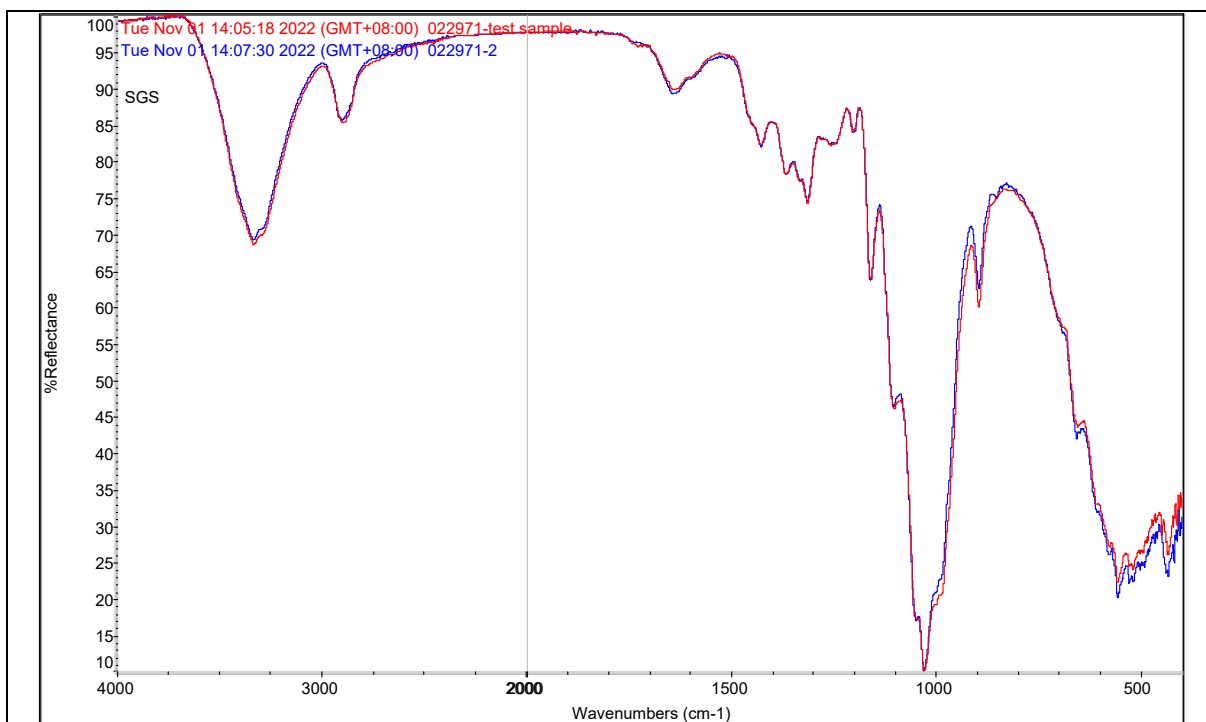
TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 20 of 21

Fig.5: test sample(AFC-20) and finished product 2(AFC-30)



Red curve: test sample(AFC-20)

Blue curve: finished product 2(AFC-30)



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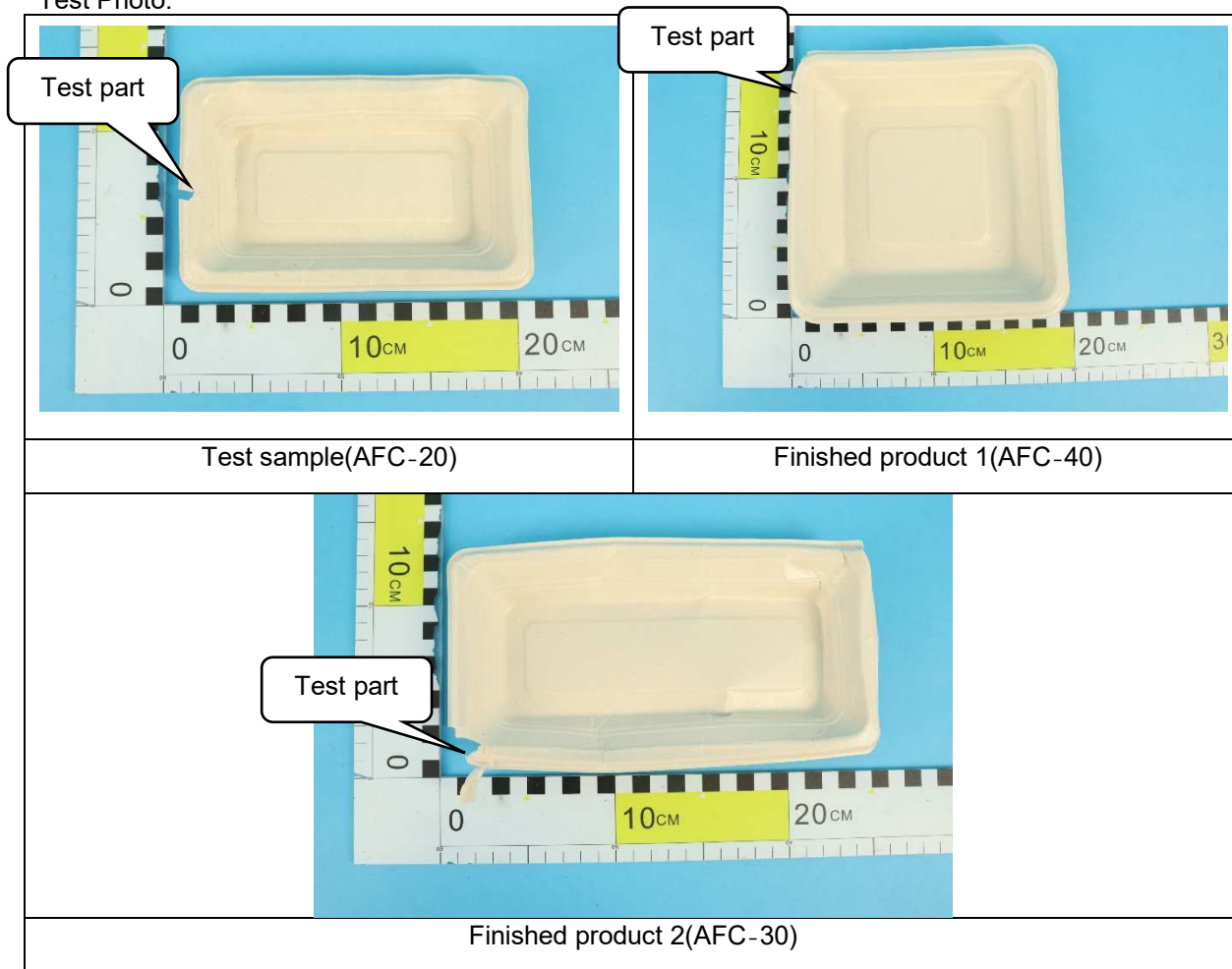
TEST REPORT

No. : GZPL220700725101PS

Date : Nov 03, 2022

Page: 21 of 21

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
FTIR	Nicolet iS50	GZMR-PL-E216	2022-01-11	2023-01-10

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