

Blockchain Security | Smart Contract Audits | KYC

MADE IN GERMANY

v1.0: 22. November, 2021

Audit

Security Assessment 28. November, 2021

For



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Version	Date	Description
1.0	22. November 2021	Layout projectAutomated- /Manual-Security TestingSummary
1.1	28. November 2021	Bugs fixed

Network

Binance Smart Chain (BEP20)

Website

https://www.kawaiiswap.finance/

Telegram

https://t.me/KawaiiSwapAnn https://t.me/kawaiiswap

Twitter

https://twitter.com/kawaiiswap

Discord

https://discord.gg/rhkHuSMzTR

Description

We enrich traditional yield farming experience with gamification features. By connecting gaming world with farming platform through Layers we provide constant utility to the native token therefore ensuring continuous growth of the project.

KawaiiSwap users are able to win tokens and NFTs in games run on the platform or complete quests to gain APR boosts. NFTs can be traded on the marketplace or used for in-game activities. Governance token CALCIFIRE holders are able to become shareholders and receive dividends just by holding tokens in the wallet as well as to participate in decision-making process.

KawaiiSwap project is backed by the team of professional developers and belongs to "Brainstorm Digital" Ltd company. Our vision is to extend user interaction with the platform way beyond yield farming platform by creating fictional world with play to earn model that combines traditional RPG experience with NFT ownership.

Project Engagement

During the 19th of November 2021, **Calcifire Team** engaged Solidproof.io to audit smart contracts that they created. The engagement was technical in nature and focused on identifying security flaws in the design and implementation of the contracts. They provided Solidproof.io with access to their code repository and whitepaper.

Logo



Contract Link v1.0

MasterChef: https://bscscan.com/address/ 0xld0b3f48el5636caa5le4la20a8a82cdedc982ed#code

Calcifire Token: https://bscscan.com/address/ 0x822866238d113a2fe77d5b5b5a0cdb895df90637#code

v1.1

MasterChef: https://bscscan.com/address/ 0x1767B9aF34be444e3C727840d8D19dB0256dBCFA#code

Calcifire Token: https://bscscan.com/address/
0x9e236b43d779b385c3279820e322abae249d3405#code



Vulnerability & Risk Level

Risk represents the probability that a certain source-threat will exploit vulnerability, and the impact of that event on the organization or system. Risk Level is computed based on CVSS version 3.0.

Level	Value	Vulnerability	Risk (Required Action)
Critical	9 - 10	A vulnerability that can disrupt the contract functioning in a number of scenarios, or creates a risk that the contract may be broken.	Immediate action to reduce risk level.
High	7 – 8.9	A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.	Implementation of corrective actions as soon aspossible.
Medium	4 – 6.9	A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.	Implementation of corrective actions in a certain period.
Low	2 – 3.9	A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.	Implementation of certain corrective actions or accepting the risk.
Informational	0 – 1.9	A vulnerability that have informational character but is not effecting any of the code.	An observation that does not determine a level of risk

Auditing Strategy and Techniques Applied

Throughout the review process, care was taken to evaluate the repository for security-related issues, code quality, and adherence to specification and best practices. To do so, reviewed line-by-line by our team of expert pentesters and smart contract developers, documenting any issues as there were discovered.

Methodology

The auditing process follows a routine series of steps:

- 1. Code review that includes the following:
 - i) Review of the specifications, sources, and instructions provided to SolidProof to make sure we understand the size, scope, and functionality of the smart contract.
 - ii) Manual review of code, which is the process of reading source code line-byline in an attempt to identify potential vulnerabilities.
 - iii) Comparison to specification, which is the process of checking whether the code does what the specifications, sources, and instructions provided to SolidProof describe.
- 2. Testing and automated analysis that includes the following:
 - i) Test coverage analysis, which is the process of determining whether the test cases are actually covering the code and how much code is exercised when we run those test cases.
 - ii) Symbolic execution, which is analysing a program to determine what inputs causes each part of a program to execute.
- 3. Best practices review, which is a review of the smart contracts to improve efficiency, effectiveness, clarify, maintainability, security, and control based on the established industry and academic practices, recommendations, and research.
- 4. Specific, itemized, actionable recommendations to help you take steps to secure your smart contracts.

Used Code from other Frameworks/Smart Contracts (direct imports)

Imported packages:

Calcifire

Address.sol

CalcifireToken.sol

Context.sol

IBEP20.sol

IUniswapV2Factory.sol

IUniswapV2Pair.sol

IUniswapV2Router01.sol

IUniswapV2Router02.sol

Ownable.sol

MasterChef

Address.sol

CalcifireToken.sol

Context.sol

IBEP20.sol

ICalcifireReferral.sol

IERC20.sol

IUniswapV2Factory.sol

IUniswapV2Pair.sol

IUniswapV2Router01.sol

IUniswapV2Router02.sol

Migrations.sol

Ownable.sol

ReentrancyGuard.sol

SafeBEP20.sol

SafeMath.sol

Tested Contract Files

This audit covered the following files listed below with a SHA-1 Hash.

A file with a different Hash has been modified, intentionally or otherwise, after the security review. A different Hash could be (but not necessarily) an indication of a changed condition or potential vulnerability that was not within the scope of this review.

v1.0 Calcifire

File Name	SHA-1 Hash
contracts/IBEP20.sol	8e83c72a70de313ccbb600d3d9c1297df8d6fef0
contracts/IUniswapV2Pair.sol	517a6c11a937212f62e409114817e7b3decd2451
contracts/Context.sol	02ebe0e93c5d1da25b91ba7f4cfb990a949263f8
contracts/IUniswapV2Factory.sol	ec741c917da6d8a7adf874d00d5dbf7f220d25ed
contracts/CalcifireToken.sol	885f502b2a46d7987f7f67b6653693408726a12d
contracts/Address.sol	93871f4002f27f5e67e6ad0c243d868d321d9234
contracts/SafeMath.sol	16904ca20d27ddfca0969cc322c39d159d33aa57
contracts/Ownable.sol	276129ff22713a5e32a785d4b72eea81e72912b2
contracts/IUniswapV2Router02.sol	8665c0ca5a56e579135c5c24af9502a188627e6c
contracts/IUniswapV2Router01.sol	ed8695e6d43176bac9ba7517f4952886009d1dc8

MasterChef

File Name	SHA-1 Hash
contracts/IBEP20.sol	8e83c72a70de313ccbb600d3d9c1297df8d6fef0
contracts/HowlsCastle.sol	73dc7c89f603882e93f9ccd1af8904824ee2001c
contracts/IUniswapV2Pair.sol	517a6c11a937212f62e409114817e7b3decd2451
contracts/Context.sol	02ebe0e93c5d1da25b91ba7f4cfb990a949263f8
contracts/SafeBEP20.sol	96bc8a79b9bd44b8d86c0a7dc9d5560929463755
contracts/IUniswapV2Factory.sol	ec741c917da6d8a7adf874d00d5dbf7f220d25ed
contracts/CalcifireToken.sol	885f502b2a46d7987f7f67b6653693408726a12d
contracts/ICalcifireReferral.sol	97e2ca12a87900a012fe5e5c0dc0a24319b1e496
contracts/Address.sol	66db1de364ee244b292cf4cc5e63385e8f6b9420
contracts/SafeMath.sol	16904ca20d27ddfca0969cc322c39d159d33aa57
contracts/Ownable.sol	276129ff22713a5e32a785d4b72eea81e72912b2
contracts/IUniswapV2Router02.sol	8665c0ca5a56e579135c5c24af9502a188627e6c
contracts/IUniswapV2Router01.sol	ed8695e6d43176bac9ba7517f4952886009d1dc8
contracts/ReentrancyGuard.sol	4ac50679fc09a3ea3d6dd545e187063e9a05be2c
contracts/IERC20.sol	3ed225ee21131d8e3b6fee8fd5265ab0292d7328

v1.1 Calcifire

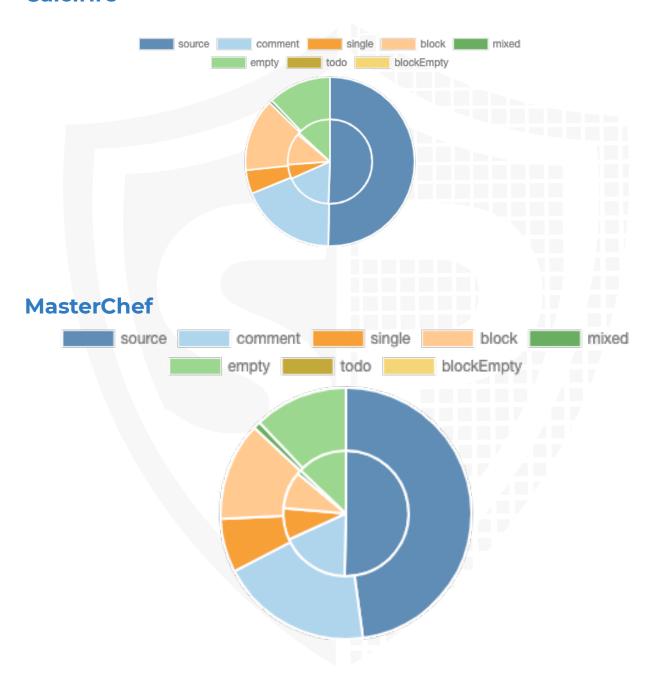
File Name	SHA-1 Hash
contracts/IUniswapV2Router02.sol	8665c0ca5a56e579135c5c24af9502a188627e6c
contracts/IUniswapV2Router01.sol	ed8695e6d43176bac9ba7517f4952886009d1dc8
contracts/Ownable.sol	276129ff22713a5e32a785d4b72eea81e72912b2
contracts/IBEP20.sol	8e83c72a70de313ccbb600d3d9c1297df8d6fef0
contracts/IUniswapV2Pair.sol	517a6c11a937212f62e409114817e7b3decd2451
contracts/Context.sol	02ebe0e93c5d1da25b91ba7f4cfb990a949263f8
contracts/IUniswapV2Factory.sol	ec741c917da6d8a7adf874d00d5dbf7f220d25ed
contracts/CalcifireToken.sol	0c1e58b864f51f62ccb66c1878b965e38f6f9b7f
contracts/Address.sol	93871f4002f27f5e67e6ad0c243d868d321d9234
contracts/SafeMath.sol	16904ca20d27ddfca0969cc322c39d159d33aa57

MasterChef

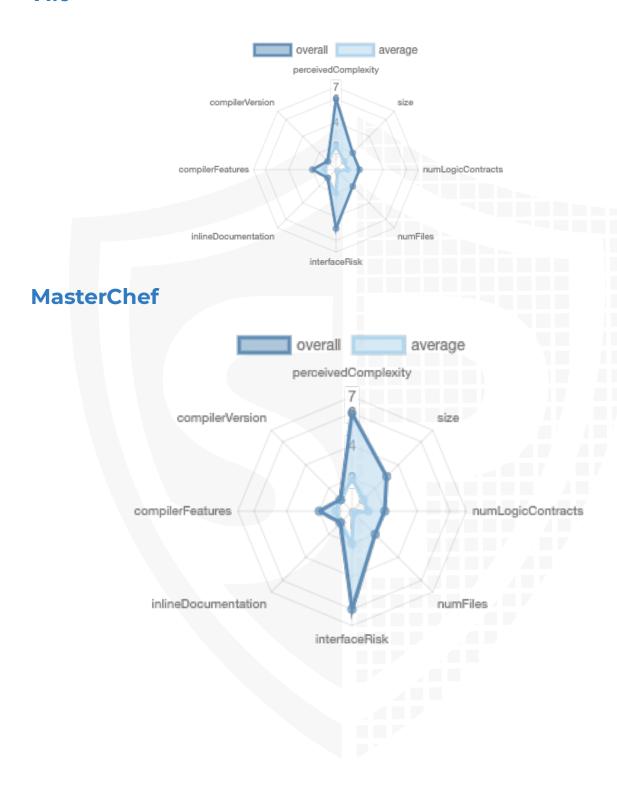
File Name	SHA-1 Hash
contracts/IBEP20.sol	8e83c72a70de313ccbb600d3d9c1297df8d6fef0
contracts/HowlsCastle.sol	ae0654339c785a6d294a0ccd5237291b649174e8
contracts/IUniswapV2Pair.sol	517a6c11a937212f62e409114817e7b3decd2451
contracts/Context.sol	02ebe0e93c5d1da25b91ba7f4cfb990a949263f8
contracts/SafeBEP20.sol	96bc8a79b9bd44b8d86c0a7dc9d5560929463755
contracts/IUniswapV2Factory.sol	ec741c917da6d8a7adf874d00d5dbf7f220d25ed
contracts/CalcifireToken.sol	0c1e58b864f51f62ccb66c1878b965e38f6f9b7f
contracts/ICalcifireReferral.sol	97e2ca12a87900a012fe5e5c0dc0a24319b1e496
contracts/Address.sol	66db1de364ee244b292cf4cc5e63385e8f6b9420
contracts/SafeMath.sol	16904ca20d27ddfca0969cc322c39d159d33aa57
contracts/Ownable.sol	276129ff22713a5e32a785d4b72eea81e72912b2
contracts/IUniswapV2Router02.sol	8665c0ca5a56e579135c5c24af9502a188627e6c
contracts/IUniswapV2Router01.sol	ed8695e6d43176bac9ba7517f4952886009d1dc8
contracts/ReentrancyGuard.sol	4ac50679fc09a3ea3d6dd545e187063e9a05be2c
contracts/IERC20.sol	3ed225ee21131d8e3b6fee8fd5265ab0292d7328

Metrics

Source Lines v1.0 Calcifire



Risk Level v1.0



Capabilities

Components

File	Version	Contract s	Libraries	Interface s	Abstract
Calcifire	1.0	2	2	5	1
MasterChef	1.0	3	3	7	2

Exposed Functions

This section lists functions that are explicitly declared public or payable. Please note that getter methods for public stateVars are not included.

File	Versi on	Pub lic	Paya ble
Calcifire	1.0	135	5
MasterC hef	1.0	180	5

File	Versio n	Extern al	Interna I	Private	Pure	View
Calcifire	1.0	92	123	28	21	60
MasterChe f	1.0	106	177	29	23	78

State Variables

File	Versi on	Total	Public
Calcifire	1.0	58	28
MasterC hef	1.0	94	59

Capabilities

File	Versio n	Solidit y Versio ns observ ed	Experi mental Featur es	Can Receiv e Funds	Uses Assem bly	Has Destro yable Contra cts
Calcifire	1.0	>=0.6 .4 0.6.1 2 >=0.6 .0 <0.8. 0 >=0.6 .2 <0.8. 0		yes	yes (3 asm blocks)	
MasterChe f	1.0	>=0.6 .4 0.6.1 2 >=0.6 .0 <0.8. 0 >=0.6 .2 <0.8.		yes	yes (3 asm blocks)	

File	Versio n	Tran sfers ETH	Low- Level Calls	Dele gate Call	Uses Hash Func tions	ECRe cover	New/ Creat e/ Creat e2
Calcifire	1.0				yes	yes	
MasterCh ef	1.0	yes		yes	yes	yes	

Scope of Work

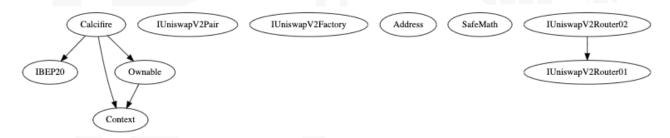
The above token Team provided us with the files that needs to be tested (Github, Bscscan, Etherscan, files, etc.). The scope of the audit is the main contract (usual the same name as team appended with .sol).

We will verify the following claims:

- 1. Correct implementation of Token standard
- 2. Deployer cannot mint any new tokens
- 3. Deployer cannot burn or lock user funds
- 4. Deployer cannot pause the contract
- 5. Overall checkup (Smart Contract Security)

Inheritance Graph

v1.0 Calcifire



MasterChef



Verify Claims

Correct implementation of Token standard

Tested	Verified
√	√

Function	Description	Exist	Tested	Verified
TotalSupply	provides information about the total token supply	\checkmark	√	\checkmark
BalanceOf	provides account balance of the owner's account	\checkmark	√	\checkmark
Transfer	executes transfers of a specified number of tokens to a specified address	√	√	√
TransferFrom	executes transfers of a specified number of tokens from a specified address	√	√	√
Approve	allow a spender to withdraw a set number of tokens from a specified account	√	√	√
Allowance	returns a set number of tokens from a spender to the owner	√	1	✓

Write functions of contract Calcifire



MasterChef



Deployer cannot mint any new tokens

File	Name	Exist	Tested	Verified
Calcifire	Deployer cannot mint	√	✓	X
MasterChef	Deployer cannot mint	-	-	-

Max / Total Supply: 3.000.000

Comments:

v1.0

- Calcifire
 - · Deployer can mint until isDeflationary is set to true
- MasterChef
 - · Calcifire.mint ist called in
 - updatePool
 - payOrLockupPendingCALCIFIRE
 - payReferralCommision

Deployer cannot burn or lock user funds

File	Name	Exist	Teste d	Verified
Calaitina	Deployer cannot lock	\checkmark	√	\checkmark
Calcifire	Deployer cannot burn	√	√	✓
MantavClasf	Deployer cannot lock	√	√	✓
MasterChef	Deployer cannot burn	-	-	-

Deployer cannot pause the contract

File	Name	Exist	Teste d	Verifie d
Calcifire	Deployer cannot pause	\checkmark	√	√
MasterChef	Deployer cannot pause	\checkmark	√	√

Overall checkup (Smart Contract Security)

Tested	Verified
\checkmark	\checkmark

Legend

Attribute	Symbol
Verfified / Checked	√
Partly Verified	P
Unverified / Not checked	X
Not available	-

OnlyOwner functions

Calcifire

```
mint
setDeflationary
transferOperator
setExcludedFromAntiWhale
updateMaxTransferAmountRate
updateAutoAddLiquidityRouter
setAutomatedMarketMakerPair
distribute
```

```
excludeFromReward
includeInReward
excludeFromFee
includeInFee
setSellFeePercents
openTrading
setTaxFeePercent
setLiquidityFeePercent
setCommunityFeePercent
setTreasuryFeePercent
setBurnFeePercent
setTreasuryAddress
setCommunityAddress
setLiquidityTaxAddress
setSwapAndLiquifyEnabled
setNumTokensSellToAddToLiquidity
setAutoSellForTreasury
setAutoSellForCommunity
setBurnToBurnAddress
triggerSwapAndLiquify
```

Comments:

- updateMaxTransferAmountRate
 - maxTransferAmountRate can be set only between 50 and 1000
- setSellFeePercents
 - _sellTaxFee + _sellLiquidityFee + _sellBurnFee + _sellTreasuryFee + _sellCommunityFee can be set only up to 20

- setTaxFeePercent
 - taxFee + _liquidityFee + _communityFee + _treasuryFee + _ burnFee can be set only up tp 10

MasterChef

onlyOperator

setTokenUSDPair setBoostLimitsEnabled setPoolBoostUSDLimits

addUserBoostByOperator addUserPoolBoostByOperator

onlyOwner

add

set

setBoostAmounts

setPoolBoost

updateOperator

updateEmissionRate

updateEmissionHalving

setReferralContract

setReferralCommissionRate

setStartRewardBlock

- onlyDev
 - setDevAddress
- onlyFeeAddress
 - setFeeAddress

Comments:

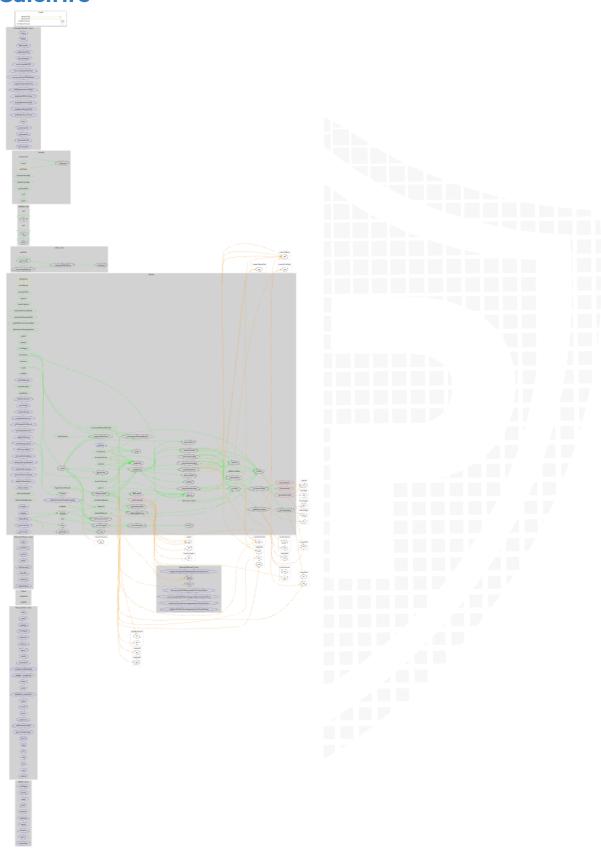
- setBoostAmounts
 - Following state variables can be set without any limitations
 - maxPoolBoostAmount
 - maxUserBoostAmount
 - userPoolBoostAmount
- updateEmissionHalving
 - · Following state variables can be set without any limitations
 - calcifireHalvingInterval
 - emissionRateDecreasePerBlock
 - targetCalcifirePerBlock
- setStartRewardBlock

Owner can set startBlock without limitations

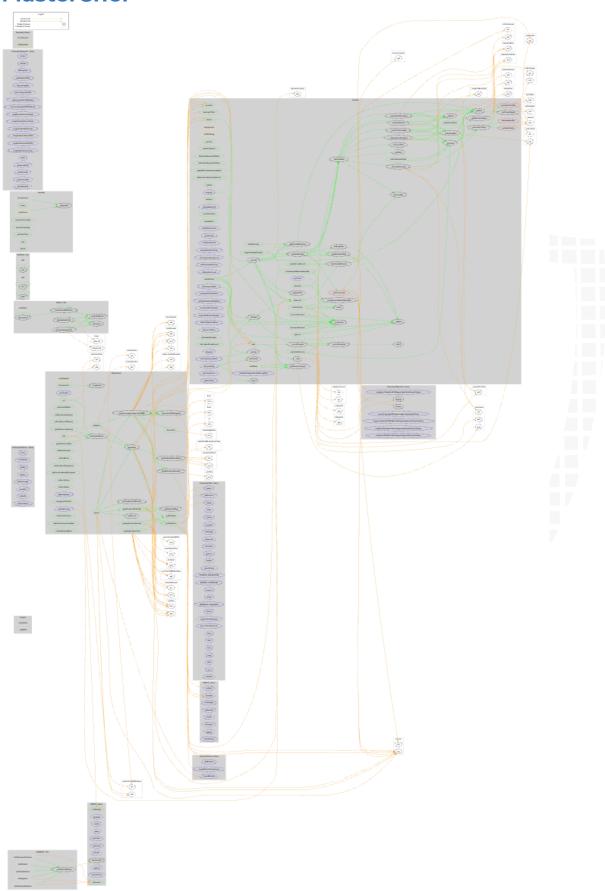


CallGraph

Calcifire



MasterChef



Source Units in Scope

v1.0 Calcifire

Туре	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
Q	contracts/IBEP20.sol		1	93	22	17	66	21	
Q	contracts/IUniswapV2Pair.sol		1	54	9	5	1	55	
©	contracts/Context.sol	1		24	24	10	12	1	*
Q	contracts/IUniswapV2Factory.sol		1	19	8	4	1	17	
9	contracts/CalcifireToken.sol	1		1110	1077	777	112	600	
\(\rightarrow\)	contracts/Address.sol	1		141	126	55	87	37	<u></u>
\(\rightarrow\)	contracts/SafeMath.sol	1		159	159	39	106	10	*
9	contracts/Ownable.sol	1		90	90	44	35	38	
Q	contracts/IUniswapV2Router02.sol		1	46	8	4	1	16	. 🖔
Q	contracts/IUniswapV2Router01.sol		1	97	6	3	1	48	
 	Totals	5	5	1833	1529	958	422	843	

MasterChef

Туре	File	Logic Contracts	Interfaces	Lines	nLines	nSLOC	Comment Lines	Complex. Score	Capabilities
Q	contracts/IBEP20.sol		1	93	22	17	66	21	
	contracts/HowlsCastle.sol	1		692	692	481	115	419	♣ ₩
Q	contracts/IUniswapV2Pair.sol		1	54	9	5	1	55	
%	contracts/Context.sol	1		24	24	10	12	1	总
\equiv 	contracts/SafeBEP20.sol	1		75	74	33	32	25	
Q	contracts/IUniswapV2Factory.sol		1	19	8	4	1	17	
9	contracts/CalcifireToken.sol	1		1110	1077	777	112	600	<u></u>
Q	contracts/ICalcifireReferral.sol		1	20	9	3	10	7	
\(\rightarrow\)	contracts/Address.sol	1		189	169	78	113	47	
E	contracts/SafeMath.sol	1		159	159	39	106	10	※
>	contracts/Ownable.sol	1		90	90	44	35	38	
Q	contracts/IUniswapV2Router02.sol		1	46	8	4	1	16	
Q	contracts/IUniswapV2Router01.sol		1	97	6	3	1	48	.8.
<i>\$</i>	contracts/ReentrancyGuard.sol	1		62	62	15	38	5	
Q	contracts/IERC20.sol		1	84	21	17	57	17	
∌ ≧ Q%	Totals	8	7	2814	2430	1530	700	1326	■ Š ÷ • • •

Legend

1			
	Δttribute	Description	
	Attribute	Description	
		·	

Lines	total lines of the source unit
nLines	normalized lines of the source unit (e.g. normalizes functions spanning multiple lines)
nSLOC	normalized source lines of code (only source-code lines; no comments, no blank lines)
Comment Lines	lines containing single or block comments
Complexity Score	a custom complexity score derived from code statements that are known to introduce code complexity (branches, loops, calls, external interfaces,)



Audit Results

AUDIT PASSED

Critical issues

- no critical issues found -

High issues

- no high issues found -

Medium issues

- no medium issues found -

Low issues

	.5 11 155 41 65				
Issue	File	Type	Line	Description	
#1	Calcifire , MasterC hef	Contract doesn't import npm packages from source (like OpenZeppelin etc.)	-	We recommend to import all packages from npm directly without flatten the contract. Functions could be modified or can be susceptible to vulnerabilities	
#2	Calcifire	Missing Zero Address Validation (missing zero-check)	129, 462 ED	Check that the address is not zero	
#3	MasterC hef	Missing Zero Add Validation (missing Zero-check)	(ED) ⁴⁹	Check that the address is not zero	
#4	Calcifire	State variable visibility is not set	KED ⁷⁰	It is best practice to set the visibility of state variables explicitly	
#5	Calcifire	Missing Events Arithmetic	447, 437, 4 × 4 13,	Emit an event for critical parameter changes	
#6	Calcifire	Usage of equality comparison instead of assignment	681 (ED	This equality comparison doesn't have any effect. If you want to assign a variable, please use only one equal sign instead of ==	

Informational issues

Issue	File	Type	Line	Description
#1	Calcifire	State variables that could be declared constant (constable-states)	65, 35, 33, 34	Add the `constant` attributes to state variables that never change

Commented Code exist

There are some instances of code being commented out in the following files that should be removed:

Line	Comment
Calcifire, 382	// require(account != 0x7a2 vol 37 . 34 v=5: 37 9dF2C5dAcb4c659F2488D, 'We can not exclude Uniswap router.');

Recommendation

Remove the commented code, or address them properly.

Audit Comments

22. November 2021:

- Line 84, Calcifire, _operator wrong comment
 - <u>-operator is not only for update the MaxTransferAmountRate and tax rate, it is used as an onlyOwner modifier (see onlyOwner functions, Calcifire)</u>
- calcifireReferral was not provided to solidproof
 - · We recommend you to do your own research about that contract

28. November 2021:

- Bugs fixed
 - · See audit results above

SWC Attacks

ID	Title	Relationships	Status
<u>SW</u> <u>C-13</u> <u>6</u>	Unencrypted Private Data On-Chain	CWE-767: Access to Critical Private Variable via Public Method	PASSED
<u>SW</u> <u>C-13</u> <u>5</u>	Code With No Effects	CWE-1164: Irrelevant Code	PASSED
<u>SW</u> <u>C-13</u> <u>4</u>	Message call with hardcoded gas amount	CWE-655: Improper Initialization	PASSED
<u>SW</u> <u>C-13</u> <u>3</u>	Hash Collisions With Multiple Variable Length Arguments	CWE-294: Authentication Bypass by Capture-replay	PASSED
<u>SW</u> <u>C-13</u> <u>2</u>	Unexpected Ether balance	CWE-667: Improper Locking	PASSED
<u>SW</u> <u>C-13</u> <u>1</u>	Presence of unused variables	CWE-1164: Irrelevant Code	PASSED
<u>SW</u> <u>C-13</u> <u>O</u>	Right-To-Left- Override control character (U+202E)	CWE-451: User Interface (UI) Misrepresentation of Critical Information	PASSED
<u>SW</u> <u>C-12</u> <u>9</u>	Typographical Error	CWE-480: Use of Incorrect Operator	PASSED
<u>SW</u> <u>C-12</u> <u>8</u>	DoS With Block Gas Limit	CWE-400: Uncontrolled Resource Consumption	PASSED

<u>SW</u> <u>C-12</u> <u>7</u>	Arbitrary Jump with Function Type Variable	CWE-695: Use of Low-Level Functionality	PASSED
<u>SW</u> <u>C-12</u> <u>5</u>	Incorrect Inheritance Order	CWE-696: Incorrect Behavior Order	PASSED
<u>SW</u> <u>C-12</u> <u>4</u>	Write to Arbitrary Storage Location	CWE-123: Write-what-where Condition	PASSED
<u>SW</u> <u>C-12</u> <u>3</u>	Requirement Violation	CWE-573: Improper Following of Specification by Caller	PASSED
<u>SW</u> <u>C-12</u> <u>2</u>	Lack of Proper Signature Verification	CWE-345: Insufficient Verification of Data Authenticity	PASSED
<u>SW</u> <u>C-12</u> <u>1</u>	Missing Protection against Signature Replay Attacks	CWE-347: Improper Verification of Cryptographic Signature	PASSED
<u>SW</u> <u>C-12</u> <u>0</u>	Weak Sources of Randomness from Chain Attributes	CWE-330: Use of Insufficiently Random Values	PASSED
<u>SW</u> <u>C-11</u> <u>9</u>	Shadowing State Variables	CWE-710: Improper Adherence to Coding Standards	PASSED
<u>SW</u> <u>C-11</u> <u>8</u>	Incorrect Constructor Name	CWE-665: Improper Initialization	PASSED
<u>SW</u> <u>C-11</u> <u>7</u>	Signature Malleability	CWE-347: Improper Verification of Cryptographic Signature	PASSED

<u>SW</u> <u>C-11</u> <u>6</u>	Timestamp Dependence	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
<u>SW</u> <u>C-11</u> <u>5</u>	Authorization through tx.origin	CWE-477: Use of Obsolete Function	PASSED
<u>SW</u> <u>C-11</u> <u>4</u>	Transaction Order Dependence	CWE-362: Concurrent Execution using Shared Resource with Improper Synchronization ('Race Condition')	PASSED
<u>SW</u> <u>C-11</u> <u>3</u>	DoS with Failed Call	CWE-703: Improper Check or Handling of Exceptional Conditions	PASSED
<u>SW</u> <u>C-11</u> <u>2</u>	Delegatecall to Untrusted Callee	CWE-829: Inclusion of Functionality from Untrusted Control Sphere	PASSED
<u>SW</u> <u>C-111</u>	Use of Deprecated Solidity Functions	CWE-477: Use of Obsolete Function	PASSED
<u>SW</u> <u>C-11</u> <u>O</u>	Assert Violation	CWE-670: Always-Incorrect Control Flow Implementation	PASSED
<u>SW</u> <u>C-10</u> <u>9</u>	Uninitialized Storage Pointer	CWE-824: Access of Uninitialized Pointer	PASSED
<u>SW</u> <u>C-10</u> <u>8</u>	State Variable Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED
<u>SW</u> <u>C-10</u> <u>7</u>	Reentrancy	CWE-841: Improper Enforcement of Behavioral Workflow	PASSED
<u>SW</u> <u>C-10</u> <u>6</u>	Unprotected SELFDESTRUC T Instruction	CWE-284: Improper Access Control	PASSED

<u>SW</u> <u>C-10</u> <u>5</u>	Unprotected Ether Withdrawal	CWE-284: Improper Access Control	PASSED
<u>SW</u> <u>C-10</u> <u>4</u>	Unchecked Call Return Value	CWE-252: Unchecked Return Value	PASSED
<u>SW</u> <u>C-10</u> <u>3</u>	Floating Pragma	CWE-664: Improper Control of a Resource Through its Lifetime	PASSED
<u>SW</u> <u>C-10</u> <u>2</u>	Outdated Compiler Version	CWE-937: Using Components with Known Vulnerabilities	PASSED
<u>SW</u> <u>C-10</u> 1	Integer Overflow and Underflow	CWE-682: Incorrect Calculation	PASSED
<u>SW</u> <u>C-10</u> <u>0</u>	Function Default Visibility	CWE-710: Improper Adherence to Coding Standards	PASSED



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