

Test report No: 4918539.50

TEST REPORT

Radio Spectrum Matters (RF)

Identification of item tested	Cync dynamic effect indoor strip					
Trademark	GE					
Model and /or type reference	CSTR16CDID/ENS, CSTR32CDID/ENS					
FCC ID	PUU-STR-CDID					
Features	Adaptor: CLASS 2 POWER UNIT MODEL NO: XY24SR-240100VQ-UW INPUT: 100-240Vac, 50/60Hz, 0.6A MAX OUTPUT: 24Vdc, 1.0A					
Applicant's name / address	Savant Technologies LLC, dba GE Lighting, a Savant Company 1975 Noble Road, Cleveland, OH, 44112, US.					
Test method requested, standard	FCC CFR Title 47 Part15 Subpart C Section 15.247; KDB558074 D01v05r02;					
Verdict Summary	COMPLIANCE					
Tested by (name & signature)	Jazz Liang Jass bay Tim Yan Tim Yan					
Approved by (name & signature)	Tim Yan Tim Yan					
Date of issue	2024-06-19					
Report template No	TRF_EMC 2017-06- FCC_Part15C_247					

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GENERAL CONDITIONS

- 1. This report is only referred to the item that has undergone the test.
- 2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
- 3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
- 4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
- 5. This report will not be used for social proof function in China market.

UNCERTAINTY

For all measurements where guidance for the calculation of the instrumentation uncertainty of a measurement is specified in EN 55016-4-2 (CISPR 16-4-2), EN/IEC 61000-4 series or a product standard, the measurement instrumentation uncertainty has been calculated and applied in accordance with these standards.

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	-40 °C – 105 °C
Relative Humidity air	30% - 60%
Atmospheric pressure	86 kPa – 106 kPa

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not tested	N/T

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DEFINITION OF SYMBOLS USED IN THIS TEST REPORT

☐ Indicates that the listed condition, standard or equipment is applicable for this report/test/EUT.							
☐ Indicates that the listed condition, standard or equipment is not applicable for this report/test/EUT.							
Decimal separator used in this report Comma (,) Point (.)							

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT : Equipment Under Test

QP : Quasi-Peak
CAV : CISPR Average

AV : Average

CDN : Coupling Decoupling Network SAC : Semi-Anechoic Chamber

OATS : Open Area Test Site

BW: Bandwidth

AM : Amplitude Modulation
PM : Pulse Modulation

HCP : Horizontal Coupling PlaneVCP : Vertical Coupling Plane

U_N : Nominal voltageTx : TransmitterRx : Receiver

N/A : Not Applicable N/M : Not Measured

DOCUMENT HISTORY

Report nr.	Date	Description
4918539.50 2024-06-19		First release.

REMARKS AND COMMENTS

The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).

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1 **GENERAL INFORMATION**

1.1 General Description of the Item(s)

Description of the item:	Cync dynamic effect indoor strip
Trademark:	GE
Model / Type number:	CSTR16CDID/ENS, CSTR32CDID/ENS
FCC ID:	PUU-STR-CDID
Hardware:	N/A
Software:	N/A
Firmware:	N/A
Ratings:	Adaptor: CLASS 2 POWER UNIT
	MODEL NO: XY24SR-240100VQ-UW
	INPUT: 100-240Vac, 50/60Hz, 0.6A MAX
	OUTPUT: 24Vdc, 1.0A
Manufacturer:	Same as applicant
Factory 1:	Dongguan ZOYO Electronics Technology Co., Ltd.
•	NO.11, Nange west Road, Nanya Village, Daojiao Town, Dongguan,
	Guangdong, China
Factory 2:	SILVER AGE VIETNAM TECHNOLOGY COMPANY LIMITED.
	Lot A2, Gia Le industrial zone, Dong Xuan commune, Dong Hung district,
	Thai Binh province, VietNam.

Rated power supply:		Voltage and Frequency		Reference poles				
	voltage and i requerity		L1	L2	L3	N	PE	
	AC: 100-240 V, 50/60 Hz		\boxtimes			\boxtimes		
		AC:						
		DC:						
		Battery:						
Mounting position:	\boxtimes	Table top equipment						
		Wall/Ceiling mounted equipment						
		Floor standing equipment						
Hand-held equipment								
Other:								

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Based on customer description: Wireless module Characteristic

Wireless module No	JXC8720-18
Operating frequency range(s) – Tx :	2412 – 2462 MHz for 2.4G WIFI
Operating frequency range(s) – 1x.	2402 – 2480 MHz for Bluetooth
Operating frequency range(s) – Rx:	2412 – 2462 MHz for 2.4G WIFI
Operating frequency range(s) – Kx.	2402 – 2480 MHz for Bluetooth
Type of Modulation:	WLAN 2.4GHz: IEEE 802.11b: DSSS (CCK, QPSK, BPSK); IEEE 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM); IEEE 802.11n HT20: OFDM (BPSK, QPSK, 16QAM, 64QAM) Bluetooth LE:GFSK
Antenna type:	Integrate antenna
Antenna gain:	0.5 dBi
Operation temperature range	-20 − 40 °C

Antenna List

Ante	nna Model No.			N/A					
Ante	nna Manufactur	er		N/A					
Ante	nna Delivery						☐ 2*TX+2*RX ☐ 3*TX+3*RX		
Ante	nna Technology	/		\boxtimes	SISO				
							Basic methodology		
					MIMO		Sectorized antenna systems		
							Cross-polarized antennas		
				$ \Box $			Unequal antenna gains, with equal transmit powers		
							Spatial Multiplexing		
							Cyclic Delay Diversity (CDD)		
Ante	nna Type			Integrate antenna					
Ante	nna Gain								
A nto	nna Taabnalaa	,		Ant Gain(eth1)					
Antenna Technology			(dBi)						
\boxtimes	SISO	\boxtimes	Ant1				0.5		
	3130		Ant2		<u>-</u>				

The radio module (Bluetooth) operating channels are:

BLE:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2430	28	2458
1	2404	15	2432	29	2460
2	2406	16	2434	30	2462
3	2408	17	2436	31	2464
4	2410	18	2438	32	2466
5	2412	19	2440	33	2468
6	2414	20	2442	34	2470

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7	2416	21	2444	35	2472
8	2418	22	2446	36	2474
9	2420	23	2448	37	2476
10	2422	24	2450	38	2478
11	2424	25	2452	39	2480
12	2426	26	2454	-	-
13	2428	27	2456	-	-

The WIFI mode operating channels are:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2412	7	2447
1	2417	8	2452
2	2422	9	2457
3	2427	10	2462
4	2432	-	-
5	2437	-	-
6	2442	-	-

Intended use of the Equipment Under Test (EUT)

The apparatus as supplied for the test is Cync dynamic effect indoor strip which intended for residential use, the product contains electronic circuitry and without earth connection. It contains a Wireless module, so it would be controlled by other Wi-Fi devices through APPs.

Based on customer description, models CSTR16CDID/ENS, CSTR32CDID/ENS are identical except for the length of the LED strip(5m for model CSTR16CDID/ENS, 10m for model CSTR32CDID/ENS).

Hence, model CSTR32CDID/ENS was chosen for full test.

Copy of marking plate:
Refer to document label.

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1.2 Test data

	DEKRA Testing and Certification (Shanghai) Ltd.
Test Location	Block 5, No.3, Qiyun Road, Huangpu District, Guangzhou, Guangdong, China
	FCC Designation Number: CN1324;
Date of receipt of test item	2024-05-14
Date (s) of performance of tests	2024-05-14 to 2024-05-31
	Normal sample: CSTR32CDID/ENS (lab no.4918539-1)
Test sample	RF conducted sample: CSTR32CDID/ENS (lab no.4918539-2)
	RF radiated sample: CSTR32CDID/ENS (lab no.4918539-3)

1.3 The environment(s) in which the EUT is intended to be used

The equipment under test (EUT) is intended to be used in the following environment(s):

\boxtimes	Residential (domestic) environment.
\boxtimes	Commercial and light-industrial environment.
	Industrial environment.

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2 **DESCRIPTION OF TEST SETUP**

2.1 Operating mode(s) used for tests

During the tests the following operating mode(s) has(have) been used.

Operating	Operating mode description	Used for methos					
mode	mode Operating mode description		Radiated				
1	Transmitting at 1 Mbit/s,	\boxtimes	\boxtimes				
2	LED 4000K on mode; Supply power by AC/DC adaptor	\boxtimes	\boxtimes				
3							
4							
Supplemen	Supplemental information:						

2.2 Support / Auxiliary equipment / unit / software for the EUT

The EUT has been tested with the following auxiliary equipment / unit / software:

Auxiliary equipment / unit / software	Type / Version	Manufacturer	Supplied by
Laptop	Latitude 5488	DELL	DEKRA
AmebaZ2_mptool_1V3 (soft ware)	-	-	Client
Realtek Bluetooth MP Kit Setup Package	-	-	Client
(soft ware)			
Adaptor	XY24SR-	GE Lighting, a Savant	Client
Name: CLASS 2 POWER UNIT	240100VQ-UW	Company / XING YUAN ELETRONICS CO.,LTD	
Supplemental information:			

2.3 Test Configuration / Block diagram used for tests

Refer to Annex 3.

2.4 Measurement procedure

The EUT was controlled by a serial PCB(TUYA) which provided by test lab which connected to laptop through the com port. After connected, run the software "Realtek Bluetooth MP Kit Setup Package" supplied by manufacturer to control the EUT work in required test mode as below table.

RF Mode	Set_channel(MHz)	Set_power in software		
	2402	0x2a		
BLE_1M	2440	0x2a		
	2480	0x2a		

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3 **VERDICT SUMMARY SECTION**

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15	2022	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and
Subpart C Section 15.247		5725–5850 MHz.
KDB 558074 D01 v05r02	2019	Guidance for performing compliance measurements on Digital
		Transmission System (DTS) operating under section 15.247
ANSI C63.10	2013	American National Standard of Procedures for Compliance Testing
		of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

3.3 Overview of results

FCC measurement				
Requirement – Test case	Basic standard(s)	Verdict	Remark	
AC Power Line Conducted Emission	FCC 15.207	PASS		
Emissions in non-restricted frequency bands	FCC 15.247(d), FCC 15.209	PASS		
Emissions in restricted frequency bands	FCC 15.247(b)(3)	PASS		
Duty cycle	ANSI C63.10:2013	PASS		
Band Edge	FCC 15.247(d)	PASS		
Fundamental emission output power	FCC 15.247(d), FCC 15.209	PASS		
DTS Bandwidth	FCC 15.247(a)(2)	PASS		
Power Spectral Density	FCC 15.247(e)	PASS		
Antenna Requirement	FCC 15.203	PASS		
Supplementary information:	1	1		

The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to calculate the uncertainty associated with the measurement result.

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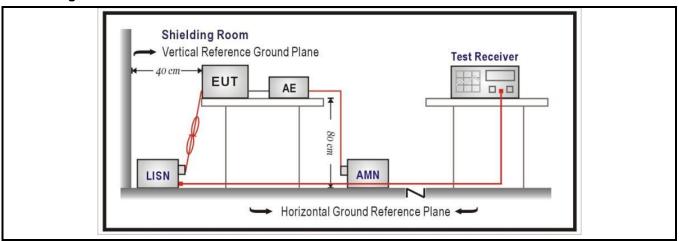
4 TRANSMITTER TEST RESULTS

Limits

FCC Part 15 Subpart C Paragraph 15.207								
Frequency range [MHz] Limit: QP [dB(μ V) ¹⁾] Limit: AV [dB(μ V) ¹⁾] IF BW Detector(s)								
0,15 - 0,50	66 – 56 ²⁾	56 - 46 ²⁾	9 KHz	QP, AV				
0,50 - 5,0	56	46	9 KHz	QP, AV				
5,0 - 30	60	50	9 KHz	QP, AV				

¹⁾ At the transition frequency, the lower limit applies.

Test Configuration



Performed measurements

Port under test		Terminal								
		\boxtimes	N	\boxtimes	L1		L2		L3	
☐ DC input power			☐ Positive (+) ☐ Negative				tive (-)			
Test method applied Artificial mains net		twork								
	☐ Voltage probe									
Test setup	Test setup ☐ Table top ☐ Floor standing		Artificial hand applied							
			Other:							
	Refe	r to the Annex 2 for	test se	tup photo	o(s).					
Operating mode(s) used	Mode 2									
Envirment condition (temperature; humidiry)	23,0 °C; 45,0 %									
Remark	-									

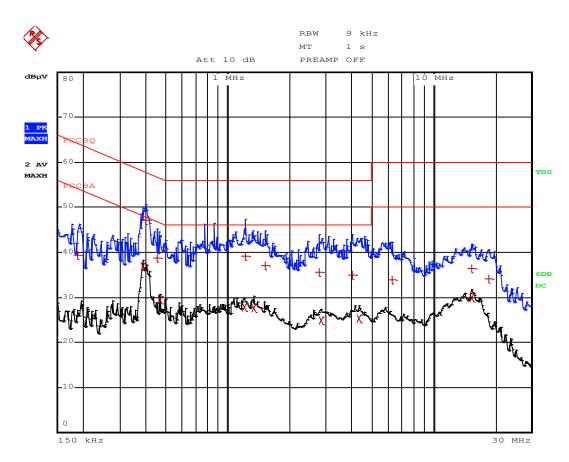
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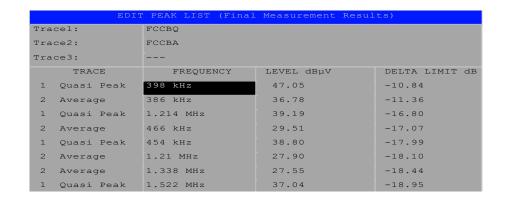
²⁾ The limit decreases linearly with the logarithm of the frequency.



Model	CSTR32CDID/ENS
Operation Mode (worst case)	Mode 2
Test voltage	120 Vac, 60 Hz

Results Live





Remarks:

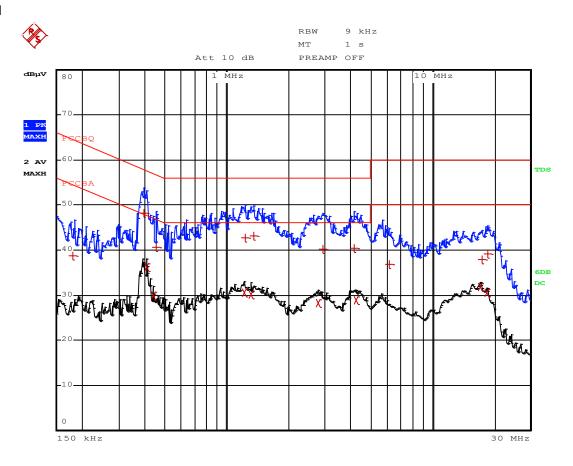
- 1) Level (final measurement) = received value + transducer (Lisn+cable)
- 2) Delta = Level Limit

No other significant emissions were measured at the frequency range of interest employing both the QP and AV detectors.

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Neutral



EDIT PEAK LIST (Final Measurement Results)				
Tracel:	FCCBQ			
Trace2:	FCCBA			
Trace3:				
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1 Quasi Peak	394 kHz	48.10	-9.87	
2 Average	406 kHz	36.22	-11.50	
1 Quasi Peak	1.35 MHz	43.09	-12.90	
1 Quasi Peak	1.23 MHz	42.82	-13.17	
2 Average	1.222 MHz	30.44	-15.55	
1 Quasi Peak	4.19 MHz	40.36	-15.64	
1 Quasi Peak	2.93 MHz	40.24	-15.75	
2 Average	1.306 MHz	30.13	-15.86	
1 Quasi Peak	450 kHz	40.55	-16.32	
2 Average	4.246 MHz	28.80	-17.19	
2 Average	438 kHz	29.84	-17.25	

Remarks:

- 1) Level (final measurement) = received value + transducer (Lisn+cable)
- 2) Delta = Level Limit

No other significant emissions were measured at the frequency range of interest employing both the QP and AV detectors.

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4.2 Emissions in non-restricted frequency bands VERDICT: PASS

Emissions Limit 15.209(a)		
Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)
1.705 - 30	30	29.5	30(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 (Note 2)
216 - 960	200	46	3 (Note 2)
Above 960	500	54	3 _(Note 2)

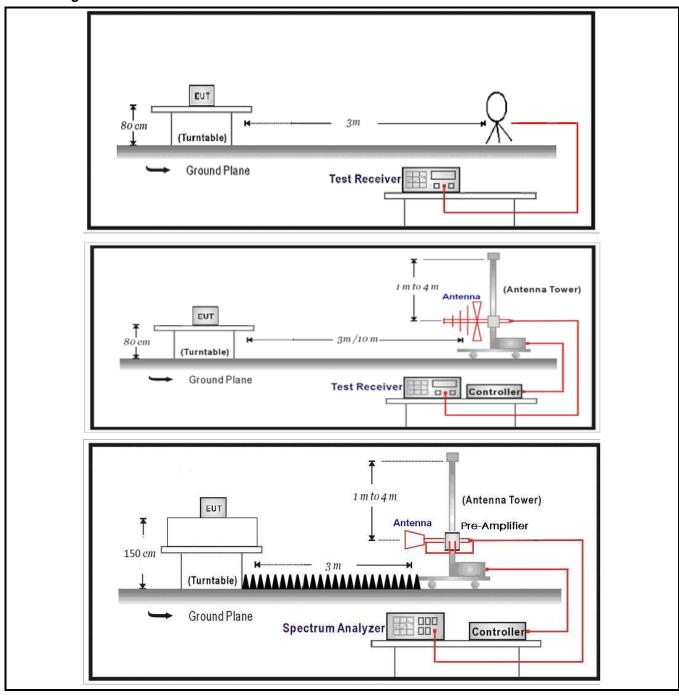
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

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Test Configuration



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Performed measurements

Port under test	Enclosure port			
Test method applied		Conducted measurement		
	\boxtimes	Radiated measurement		
Test setup	Refer to the Annex 3 for test setup photo(s).			
Operating mode(s) used	Mode 1-2			
	1)The test frequency range, 9kHz~30MHz, 18GHz~26GHz, both of the worst			
	case are at least 20dB below the limits, therefore no data appear in the report.			
Remark				
	2)The EUT are tested in three orientations. The record is the worst orientation			
	which	which refer to the Annex 3 for test setup photo(s).		

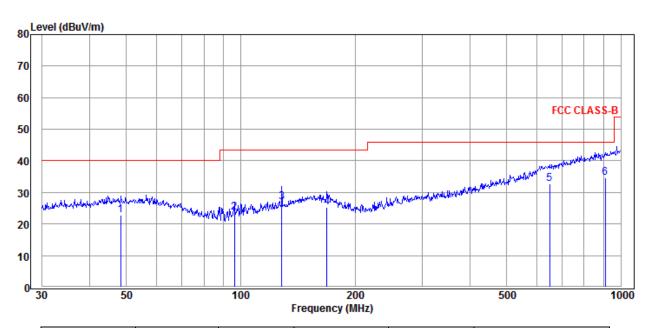
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Results of 30 - 1000 MHz

Model	CSTR32CDID/ENS	
Operation Mode	Mode 2 (worst case)	
Test voltage	120Vac	

Results Horizontal



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
48.33	2.33	20.51	22.84	40.00	17.16
96.10	8.12	15.50	23.62	43.50	19.88
128.11	7.87	19.14	27.01	43.50	16.49
168.41	4.49	20.79	25.28	43.50	18.22
649.66	2.73	29.94	32.67	46.00	13.33
909.67	1.04	33.64	34.68	46.00	11.32

Remarks:

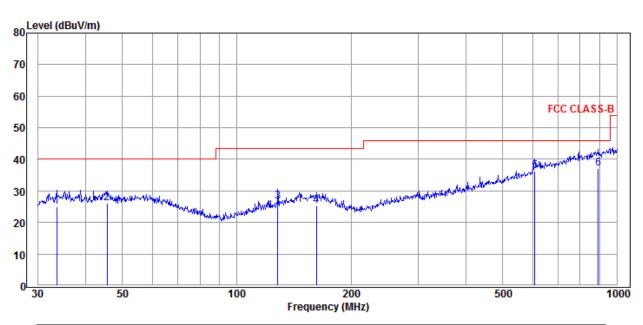
- 1) C.F (Correction Factor) = Antenna factor + Cable loss Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detectors.

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Vertical



Freq (MHz)	Reading (dBuV)	C.F (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin=limit-result (dB)
33.56	6.01	19.12	25.13	40.00	14.87
45.54	5.62	20.39	26.01	40.00	13.99
128.11	7.46	19.14	26.60	43.50	16.90
162.04	4.26	21.09	25.35	43.50	18.15
607.79	6.73	29.46	36.19	46.00	9.81
893.86	3.58	33.50	37.08	46.00	8.92

Remarks:

- 1) C.F (Correction Factor) = Antenna factor + Cable loss Preamp gain
- 2) Result = Reading + C.F (Correction Factor)

No other significant emissions were measured at the frequency range of interest employing the QP detectors.

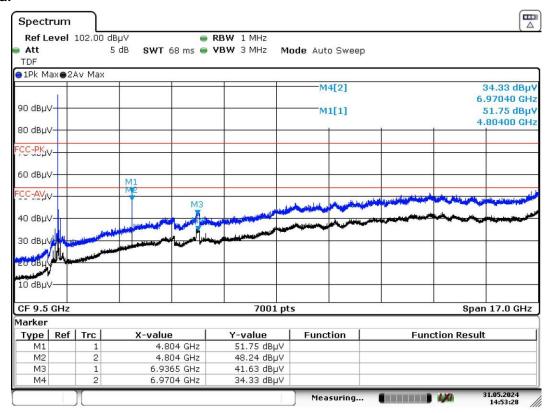
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Results of 1 - 18 GHz

Model	CSTR32CDID/ENS
Operation Mode (worst case)	Mode 1 @2402 MHz
Test voltage	120Vac

Results Horizontal



Date: 31.MAY.2024 14:53:29

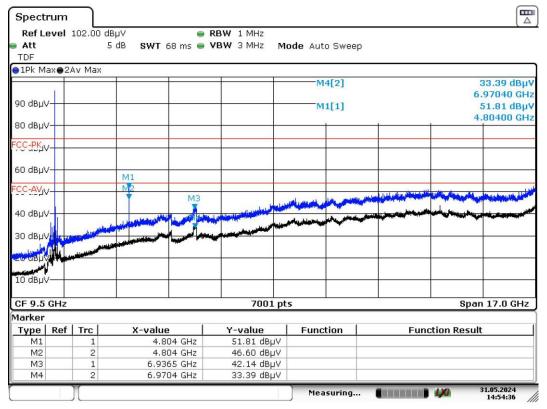
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Date: 31.MAY.2024 14:54:36

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

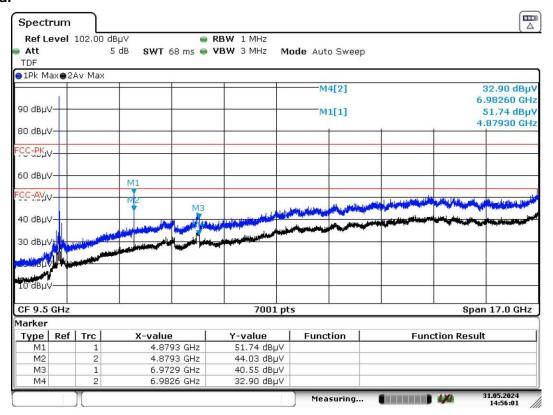
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Model	CSTR32CDID/ENS
Operation Mode (worst case)	Mode 1 @2440 MHz
Test voltage	120Vac

Results Horizontal



Date: 31.MAY.2024 14:56:01

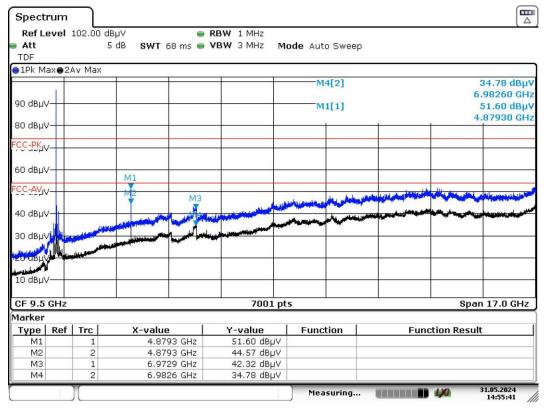
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Date: 31.MAY.2024 14:55:41

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

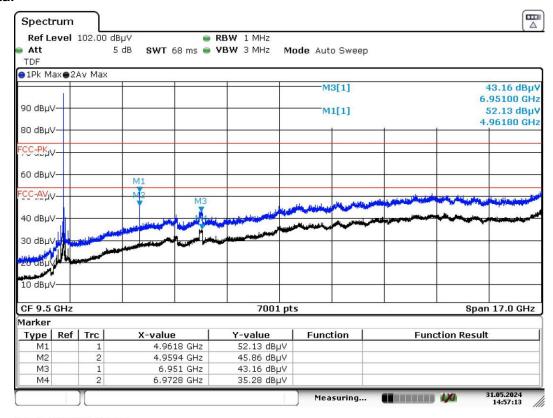
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Model	CSTR32CDID/ENS
Operation Mode (worst case)	Mode 1 @2480 MHz
Test voltage	120Vac

Results Horizontal



Date: 31.MAY.2024 14:57:14

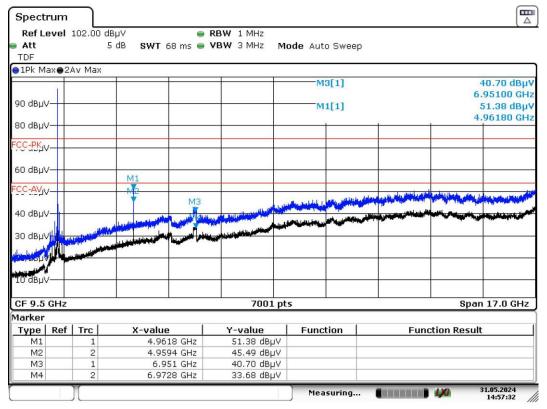
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Date: 31.MAY.2024 14:57:32

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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4.3 Emissions in restricted frequency bands VERDICT: PASS

Restricted Bands of oper	ation of FCC		
Frequency	Frequency	Frequency	Frequency
(MHz)	(MHz)	(MHz)	(GHz)
0.090 - 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 - 0.505	16.69475 –16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 - 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 - 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 - 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 - 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 - 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 - 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975–12.52025	240 – 285	3345.8 - 3358	36.43 – 36.5
12.57675–12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			
estricted Bands of oper	ation for IC		
0.090 - 0.110	13.36 - 13.41	960 - 1427	9.0 - 9.2
0.495 - 0.505	16.42 - 16.423	1435 - 1626.5	9.3 - 9.5
2.1735 - 2.1905	16.69475 - 16.69525	1645.5 - 1646.5	10.6 - 12.7
3.020 - 3.026	16.80425 - 16.80475	1660 - 1710	13.25 - 13.4
4.125 - 4.128	25.5 - 25.67	1718.8 - 1722.2	14.47 - 14.5
4.17725 - 4.17775	37.5 - 38.25	2200 - 2300	15.35 - 16.2
4.20725 - 4.20775	73 - 74.6	2310 - 2390	17.7 - 21.4
5.677 - 5.683	74.8 - 75.2	2483.5 - 2500	22.01 - 23.12
6.215 - 6.218	108 - 138	2655 - 2900	23.6 - 24.0
6.26775 - 6.26825	149.9 - 150.05	3260 - 3267	31.2 - 31.8
6.31175 - 6.31225	156.52475 - 156.52525	3332 - 3339	36.43 - 36.5
8.291 - 8.294	156.7 - 156.9	3345.8 - 3358	Above 38.6
8.362 - 8.366	162.0125 - 167.17	3500 - 4400	
8.37625 - 8.38675	167.72 - 173.2	4500 - 5150	
8.41425 - 8.41475	240 - 285	5350 - 5460	
12.29 - 12.293	322 - 335.4	7250 - 7750	
12.51975 - 12.52025	399.9 - 410	8025 - 8500	
12.57675 - 12.57725	608 - 614		

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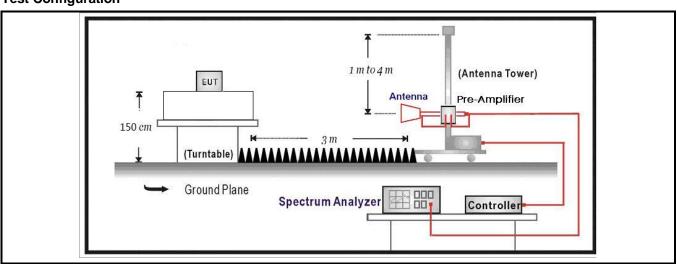


Restricted Band Emissions Limit					
Frequency (MHz)	Field strength (µV/m)	Field strength (dBµV/m)	Measurement distance (m)		
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300(Note 1)		
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30(Note 1)		
1.705 - 30	30	29.5	30 _(Note 1)		
30 - 88	100	40	3 (Note 2)		
88 - 216	150	43.5	3 (Note 2)		
216 - 960	200	46	3(Note 2)		
Above 960	500	54	3(Note 2)		

Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

Test Configuration



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Performed measurements

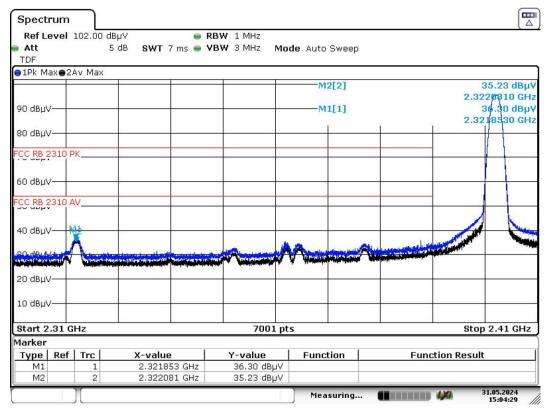
Port under test	Enclosure port	
Test method applied	☐ Conducted measurement	
	\boxtimes	Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1-2	
Remark		

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Model	CSTR32CDID/ENS
Operation Mode (worst case)	Mode 2 @ 2402 MHz
Test voltage	120Vac

Results Horizontal



Date: 31.MAY.2024 15:04:30

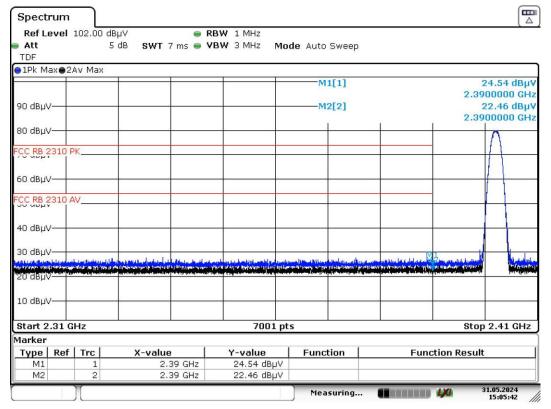
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Date: 31.MAY.2024 15:05:43

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

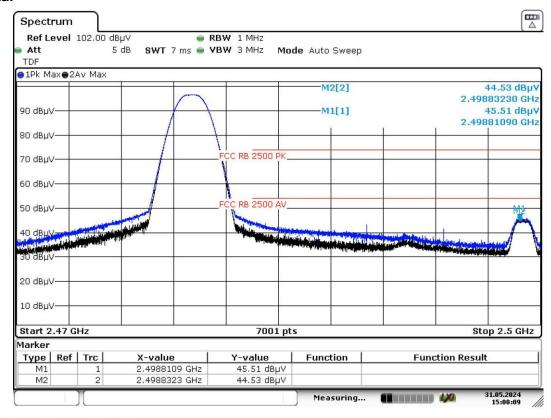
No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Model	CSTR32CDID/ENS
Operation Mode (worst case)	Mode 2 @2480 MHz
Test voltage	5Vdc

Results Horizontal



Date: 31.MAY.2024 15:00:09

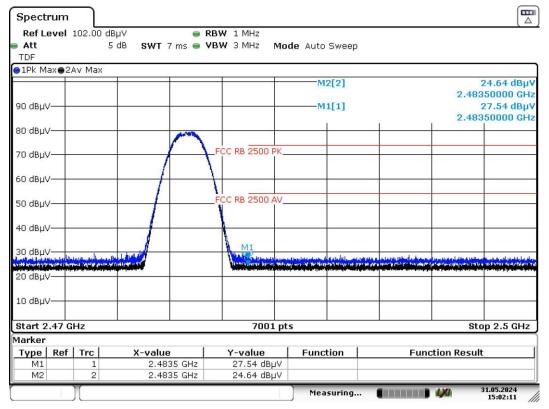
Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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Vertical



Date: 31.MAY.2024 15:02:11

Remarks: Y-Value = received value + Correction Factor (Antenna factor + Cable loss - Preamp gain)

No other significant emissions were measured at the frequency range of interest employing the PK and AV detectors.

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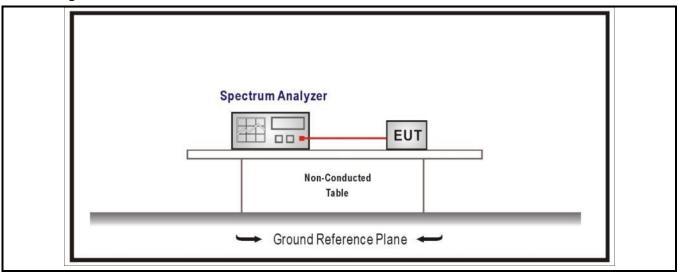
4.4 Band Edge VERDICT: PASS

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)			
RF Output power (Detection methods)		Limit(dB)		
RF Output power(Average detector)		30dBc(Note1)		
RF Output power(PK detector)		20dBc(Note2)		

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by LEast 30 dB relative to the maximum in-band peak PSD by LEvel in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at by least 20 dB relative to the maximum in-band peak PSD by level in 100 kHz (i.e., 20 dBc).

Test Configuration



Performed measurements

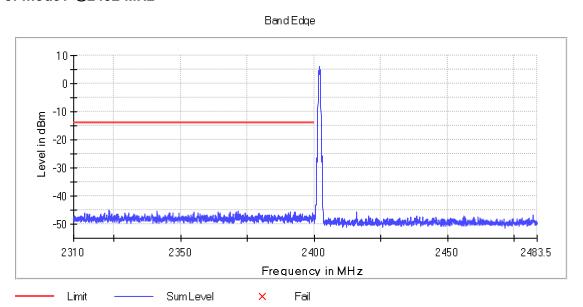
Port under test	Antei	Antenna port	
Test method applied	☐ Conducted measurement		
		Radiated measurement	
Test setup	Refer to the Annex 3 for test setup photo(s).		
Operating mode(s) used	Mode 1		
Remark			

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Result of mode1 @2402 MHz



Inband Peak

Frequency	Level
(MHz)	(dBm)
2402.0000	6

Measurements

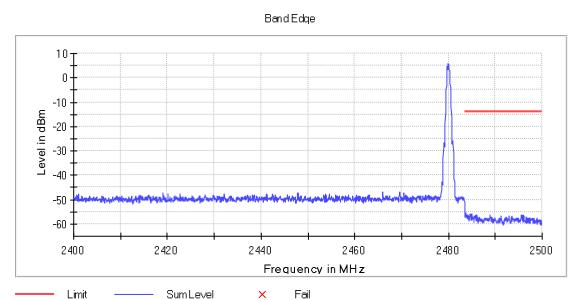
Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2323.325000	-45.0	31.0	-14.0	PASS
2341.325000	-45.5	31.4	-14.0	PASS
2341.275000	-45.5	31.5	-14.0	PASS
2371.425000	-45.5	31.5	-14.0	PASS
2368.625000	-45.6	31.5	-14.0	PASS
2370.975000	-45.6	31.5	-14.0	PASS
2323.275000	-45.6	31.6	-14.0	PASS
2370.925000	-45.7	31.6	-14.0	PASS
2391.025000	-45.7	31.6	-14.0	PASS
2368.575000	-45.7	31.7	-14.0	PASS
2392.825000	-45.7	31.7	-14.0	PASS
2323.375000	-45.8	31.7	-14.0	PASS
2391.075000	-45.8	31.7	-14.0	PASS
2392.775000	-45.8	31.8	-14.0	PASS
2355.075000	-45.8	31.8	-14.0	PASS

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Result mode1 @2480 MHz



Inband Peak

Frequency	Level
(MHz)	(dBm)
2480.0000	6.0

Measurements

Frequency	Level	Margin	Limit	Result
(MHz)	(dBm)	(dB)	(dBm)	
2483.775000	-55.7	41.7	-14.0	PASS
2483.725000	-55.8	41.8	-14.0	PASS
2485.025000	-55.9	41.9	-14.0	PASS
2484.725000	-55.9	41.9	-14.0	PASS
2484.675000	-56.0	42.0	-14.0	PASS
2495.575000	-56.2	42.2	-14.0	PASS
2495.625000	-56.2	42.3	-14.0	PASS
2496.025000	-56.3	42.4	-14.0	PASS
2484.125000	-56.4	42.4	-14.0	PASS
2485.775000	-56.4	42.4	-14.0	PASS
2486.075000	-56.5	42.5	-14.0	PASS
2486.125000	-56.5	42.5	-14.0	PASS
2488.825000	-56.5	42.5	-14.0	PASS
2483.875000	-56.5	42.5	-14.0	PASS
2484.775000	-56.5	42.6	-14.0	PASS

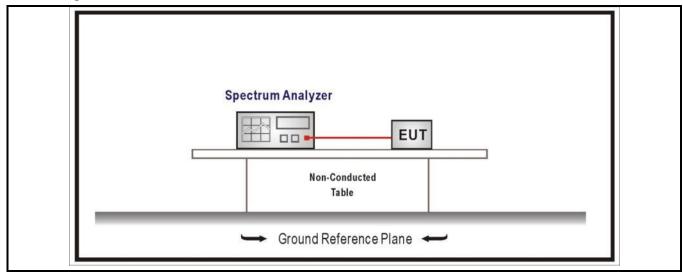
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4.5 Duty cycle VERDICT: PASS

Test Configuration



Performed measurements

Port under test	Antenna port	
Test method applied		
		Radiated measurement
Test setup	Refer to the Annex 3 for test setup photo(s).	
Operating mode(s) used	Mode 1	
Remark		

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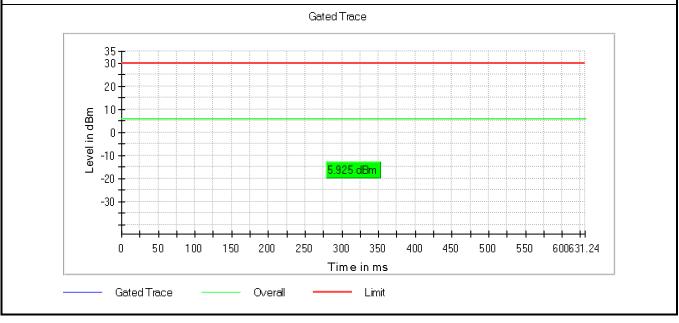
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Test Mode	Tx On (ms)	Tx On + Tx Off (ms)	Duty Cycle
Mode 1			63.324%

Note 1: T means the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control Level for the tested mode of operation.

Note 2: According to KDB 558074, when test for Radiated Emission Band Edge and Radiated Emission, for average detector set: VBW ≥ 1/T will be used.



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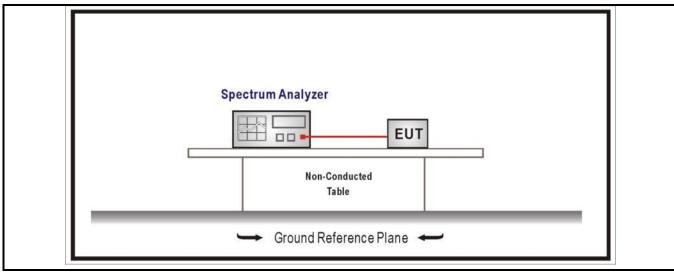


4.6 DTS Bandwidth VERDICT: PASS

Standard FCC Part 15 Subpart C Paragraph 15.247 (a)(2)

Systems using digital modulation techniques operate in the 2400-2483.5 MHz .The minimum 6 dB bandwidth shall be at by least 500 kHz

Test Configuration



Performed measurements

Port under test	Antenna port			
Test method applied				
		Radiated measurement		
Test setup	Refe	to the Annex 3 for test setup photo(s).		
Operating mode(s) used	Mode 1			
Remark				

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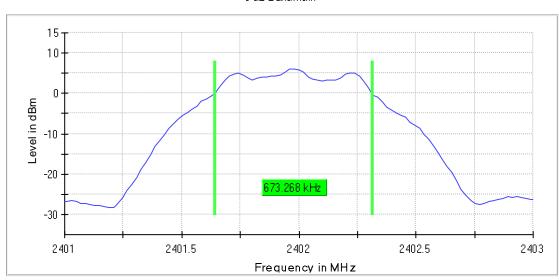


Mode	CH.	Test Freq. (MHz)	6dB Occupied Bandwidth (kHz)	Limit (kHz)	Result
	0	2402	673.268	>500	Pass
1	19	2440	673.268	>500	Pass
	39	2480	693.070	>500	Pass

6dB Occupied Bandwidth

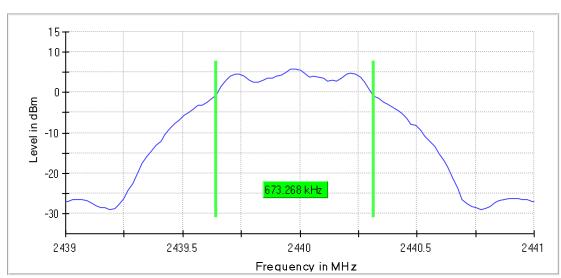
Mode 1 / CH0 (2402MHz)

6 dB Bandwidth



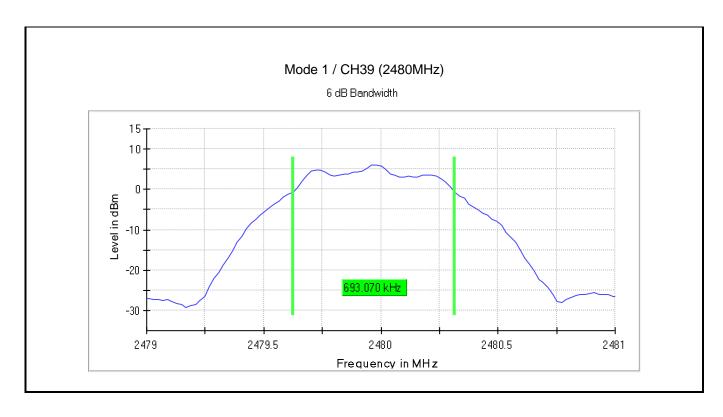
Mode 1 / CH19 (2440MHz)

6 dB Bandwidth



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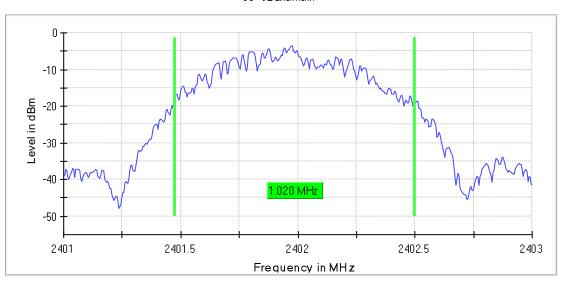


Mode	CH.	Test Freq. (MHz)	99% Occupied Bandwidth (MHz)	Limit	Result
	0	2402	1.020	Within frequency range	Pass
1	19	2440	1.040	Within frequency range	Pass
	39	2480	1.025	Within frequency range	Pass

99% Occupied Bandwidth

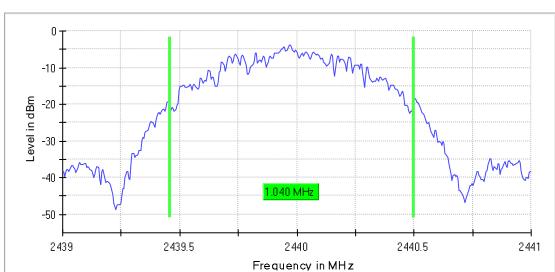
Mode 1 / CH0 (2402 MHz)

99 %Bandwidth



Mode 1 / CH19 (2440 MHz)

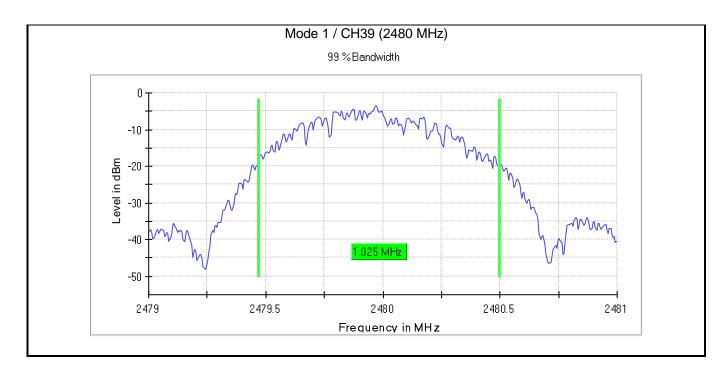
99 %Bandwidth



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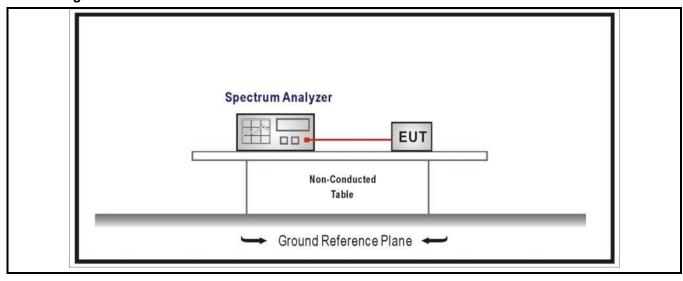
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4.7 Fundamental emission output power VERDICT: PASS

Stan	Standard FCC Pa		C Part 15 Subpart C Paragraph 15.247 (b)(3)			
\boxtimes	GTX <	<6dBi	Pout≤30dBm			
	GTX :	>6dBi				
		Non-Fix point-point	Pout≤30-(GTX -6)			
		Fix point-point	Pout≤30-[(GTX-6)]/3			
		Point-to-multipoint	Pout≤30-(GTX-6)			
		Overlap Beams	Pout≤30-[(GTX-6)]/3			
		Aggregate power transmitted simultaneo on all beams	usly Pout≤30-[(GTX-6)]/3			
	singby LE directional beam		Pout≤30-[(GTX-6)]/3+8dB			
	Note 1 : GTX directional gain of transmitting antennas. Note 2 : Pout is maximum peak conducted output power .					

Test Configuration



Performed measurements

Port under test	Antei	Antenna port			
Test method applied	\boxtimes				
	Radiated measurement				
Test setup	Refe	r to the Annex 3 for test setup photo(s).			
Operating mode(s) used	Mode	Mode 1			
Remark					

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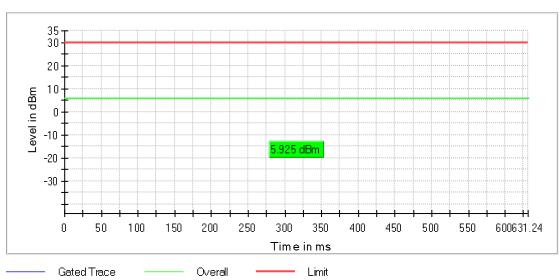
Results

Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm)	EIRP (dBm)	EIRP Limit (dBm)	Result
	0	2402	5.9	≤30	6.4	≤36	Pass
Mode 1	19	2440	5.7	≤30	6.2	≤36	Pass
	39	2480	5.9	≤30	6.4	≤36	Pass

Antenna gain is 0.5dBi

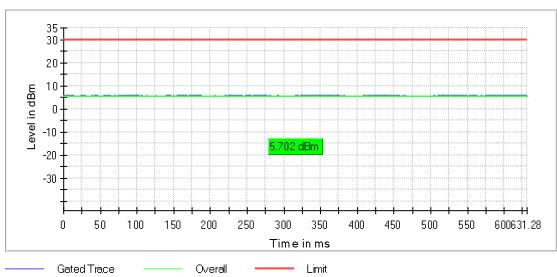
Mode 1 / CH0 (2402 MHz)

Gated Trace



Mode 1 / CH19 (2440 MHz)

Gated Trace



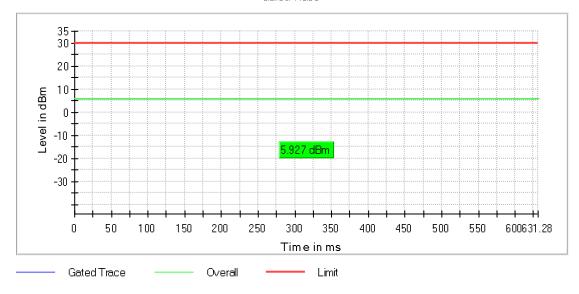
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Mode 1 / CH39 (2480 MHz)

Gated Trace



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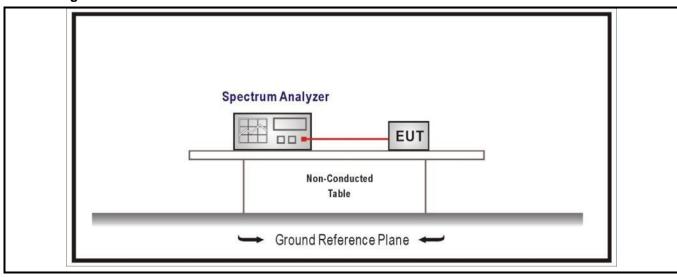
PASS

VERDICT:

4.8 Power Density

StandardFCC Part 15 Subpart C Paragraph 15.247 (b)(3)Power Spectral Density≤8dBm/3kHz

Test Configuration



Performed measurements

Port under test	Antei	Antenna port				
Test method applied	\boxtimes					
	Radiated measurement					
Test setup	Refer to the Annex 3 for test setup photo(s).					
Operating mode(s) used	Mode 1					
Remark						

Results

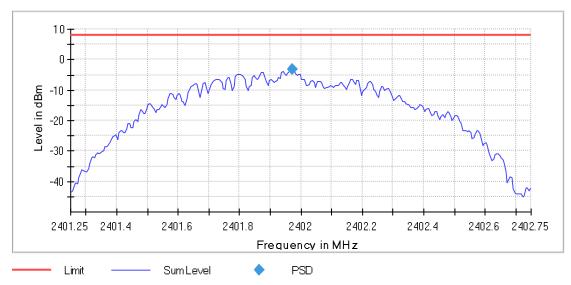
Mode	Channel	Test Frequency (MHz)	Power Output (dBm)	Limit (dBm/3kHz)	Result
	0	2402	-3.19	≤8	Pass
Mode 1	19	2440	-3.49	≤8	Pass
	39	2480	-3.16	≤8	Pass

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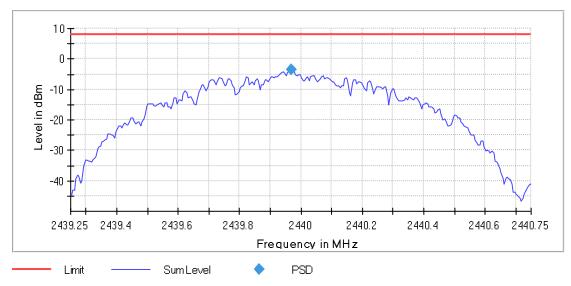


Data of mode 1

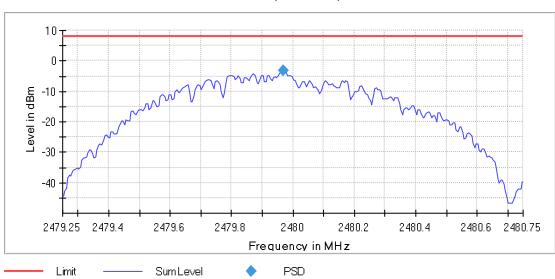
Peak Power Spectral Density



Peak Power Spectral Density



Peak Power Spectral Density



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5 **IDENTIFICATION OF THE EQUIPMENT UNDER TEST**

The photographs show the tested device.

Refer to documents External photo and Internal photo.

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ANNEX 1 – MEASUREMENT UNCERTAINTY

Test Item	Uncertainty
Occupied Channel Bandwidth	±0,7%
RF Output power, conducted	±0,6dB
Power Spectral Density, Conducted	±0,6dB
Unwanted Emissions, Conducted	±0.7dB
Spurious (30-1000MHz)	±4,4dB
Spurious (1-12,75GHz)	±4,4dB

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ANNEX 2 - USED EQUIPMENT

For Continuous disturbances conducted (150 kHz to 30 MHz)

Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Due date
Shielding Room	Changzhou Feite	/	/	G/L861	2024/05/31
EMI Receiver	R&S	ESCI	101206	G/L857	2024/07/02
LISN	R&S	ENV216	101337	G/L859	2024/07/02

For Radiated Emission (30MHz-1000MHz)

Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Due date
3m Chamber	ETS	FACT3-2.0	CT000344-1100	G/L856	2024/06/04
EMI receiver	R&S	ESCI	101205	G/L858	2024/07/02
Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	506	G/L864	2024/12/05
Antenna (30MHz-2GHz)	SCHWARZBECK	VULB9168	01229	GZ2018	2025/03/12
CMAD	TESEQ	CMAD 20B	49023	GZ1756	2024/09/08
CMAD	TESEQ	CMAD 20B	49024	GZ1757	2024/09/08
CMAD	TESEQ	CMAD 20B	49026	GZ1758	2024/09/08
CDNE	TESEQ	M310	48706	GZ1759	2024/09/07
CDNE	TESEQ	M210	540133	GZ1906	2025/05/07
Test software	AUDIX	e3	Version 6.130520		

For Radiated Emission (1GHz-18GHz)

Instrumentation	Manufacturer	Model No.	Serial No.	DEKRA No.	Cal. Due date
3m Chamber	ETS	FACT3-2.0	CT000344-1100	G/L856	2024/06/04
Antenna (1GHz-18GHz)	R&S	HF907	102306	G/L1236	2025/04/10
Horn antenna preamplifier	Schwarzbeek	SCU-18	102234	G/L1236-1	2025/02/21
Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA 9120D	02408	GZ2019	2025/01/16
Horn antenna preamplifier	EMC Instruments corporation	EMC051845 SE	980778	GZ2009	2024/12/04
Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2025/01/09

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FOR RF

Instrumentation	Manufacturer	Model	Serial no.	DEKRA No.	Cal Due date
Spectrum analyzer	R&S	FSV	SN101012	G/L1235	2025/03/07
Chamber	ETS	/	/	G/L856	2024/06/04
Horn antenna (1GHz-18GHz)	R&S	HF907	102306	G/L1236	2025/04/10
Horn antenna preamplifier	Schwarzbeek	SCU-18	102234	G/L1236-1	2025/02/03
Horn antenna (18GHz-26.5GHz)	ETS	3160-09	00164643	G/L1237	2025/01/09
Horn antenna preamplifier	/	SCU-26D	1879064	G/L1237-1	2025/01/24
EMI receiver	R&S	ESCI	101205	G/L857	2024/07/02
Antenna	SCHWARZBECK	VULB9168	01229	GZ2018	2025/03/12
(30MHz-2GHz)			0.120		
Antenna	SCHWARZBECK	VULB9163	506	G/L864	2024/06/04
(30MHz-3GHz)	oor would be on	V 0220100	000	G/2001	202 1/00/01
OSP	R&S	OSP 150	101907	GZ1894	2025/02/01
Signal generator	R&S	SMB 100A	181317	GZ1895	2025/02/01
Vector signal	R&S	SMBV100A	263671	GZ1896	2025/02/01
generator					
Wireless connectivity	R&S	CMW 270	100990	GZ1893	2025/02/01
tester					
Manual step	Keysight	8494B	TH60074118	GZ2086	2024/07/07
attenuator					
(11dB)					
Manual step	Keysight	8495D	TH60074471	GZ2087	2024/07/07
attenuator					
(70dB)					
Band filter	HX Microwave	HXLBQ-	23110101-2	GZ2540	2024-11-26
Dana mior	1 ii t iiii oi oi a to	DZA118	201101012	0220.0	20211120
Band filter	HX Microwave	HXLBQ-	23110101-1	GZ2541	2024-11-26
Dand liller	□ ∧ IVIICIOWave		23110101-1	GZ2541	2024-11-20
		DZA104			
Band filter	HX Microwave	HXLBQ-	23080804-1	GZ2464	2024-08-29
		DZA219			
RMI artificial antenna	/	/	/	GZ1988	2025-05-14
Programmable	ASTUOD	TT-5166	52689	GZ2209	2025/05/08
Temperature &					
Humidity Chamber					
Test software	R&S	EMC32			Version
iest suitwaie	Nao	LIVIOSZ	- 		
					11.30.00

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ANNEX 3 - TEST PHOTOS

Refer to document Test setup.

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