

FCC TEST REPORT

Report Number	:	709502308708-00	В	Date of Issue:	December 12, 2023
Model	<u>:</u>	LRF-01			
Product Type	:	RIX Laser Range	Finder		
Applicant	:	Visir Inc.			
Address	:	39899 Balentine	Drive STE	E 200 Newark, (CA 94560
Manufacturer	<u>:</u>	Visir Inc.			
Address	:	39899 Balentine	Drive STE	E 200 Newark, (CA 94560
Test Result	:	■ Positive	□ Negati	ive	
Total pages including Appendices	: ,	33			

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2 Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

No.16 Lane, 1951 Du Hui Road,

Shanghai 201108,

P.R. China

Test Firm FCC Registration

Number:

820234

Designation

number:

CN1183

IC Company

Number:

31688

CAB identifier: CN0101

Telephone: +86 21 6141 0123 Fax: +86 21 6140 8600



3 Description of the Equipment under Test

Product: RIX Laser RangeFinder

Model no.: LRF-01

FCC ID: 2A7ZZ-4D-ILR

Rating: 3.7V DC

RF Transmission

Frequency:

Bluetooth LE:2402~2480MHz;

Modulation: 2.4GHz BLE: GFSK

Channel list:

	Bluetooth Low Energy							
Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	Ch	Fre(MHz)	
0	2402	10	2422	20	2442	30	2462	
1	2404	11	2424	21	2444	31	2464	
2	2406	12	2426	22	2446	32	2466	
3	2408	13	2428	23	2448	33	2468	
4	2410	14	2430	24	2450	34	2470	
5	2412	15	2432	25	2452	35	2472	
6	2414	16	2434	26	2454	36	2474	
7	2416	17	2436	27	2456	37	2476	
8	2418	18	2438	28	2458	38	2478	
9	2420	19	2440	29	2460	39	2480	

Antenna Type: FPC antenna

Antenna Gain: 2.47dBi

Description of the

The Equipment Under Test (EUT) is a RIX Laser RangeFinder which

EUT: have 2.4GHz BLE function.

We tested it and listed the worst data in this report.

Test sample no.: SHA-772520-2

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.



4 Summary of Test Standards

Test Standards			
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators		

All the test methods were according to KDB 558074 D01 15.247 Meas Guidance v05r02 Measurement Guidance and ANSI C63.10-2020.



5 Summary of Test Results

Technical Requirements							
FCC Part 15 Subpa	art C						
Toot Condition		Doggo	Test	Test Result			
Test Condition		Pages	Site	Pass	Fail	N/A	
§15.207	Conducted emission AC power port						
§15.247 (b) (1)	Conducted peak output power	11-12	Site 1				
§15.247(a)(1)	20dB bandwidth						
§15.247(a)(1)	Carrier frequency separation						
§15.247(a)(1)(iii)	Number of hopping frequencies						
§15.247(a)(1)(iii)	Dwell Time						
§15.247(a)(2)	6dB bandwidth	13-14	Site 1				
§15.247(e)	Power spectral density	15-16	Site 1				
§15.247(d)	Spurious RF conducted emissions	17-20	Site 1				
§15.247(d)	Band edge	21-23	Site 1				
§15.247(d) & §15.209	Spurious radiated emissions for transmitter	24-30	Site 1				
§15.203	Antenna requirement	See note	e 1				

Remark 1: N/A - Not Applicable.

Note 1: The EUT uses a FPC antenna, which gain is 2.47dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2A7ZZ-4D-ILR, complies with Section 15.209 ,15.247 of the FCC Part 15, Subpart C Rules.

SUMMARY:

All tests according to the regulations cited on page 5 were

- - Performed
- ☐ Not Performed

The Equipment under Test

- - Fulfills the general approval requirements.
- ☐ **Does not** fulfill the general approval requirements.

Sample Received Date: November 15, 2023

Testing Start Date: November 16, 2023

Testing End Date: December 4, 2023

-TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch

Reviewed by: Prepared by: Tested by:

Hui TONG

Review Engineer Project Engineer

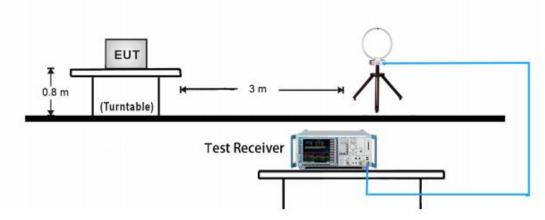
Jiaxi XU Guo Chengjie ect Engineer Test Engineer



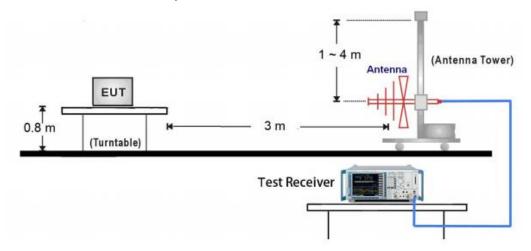
7 Test Setups

7.1 Radiated test setups

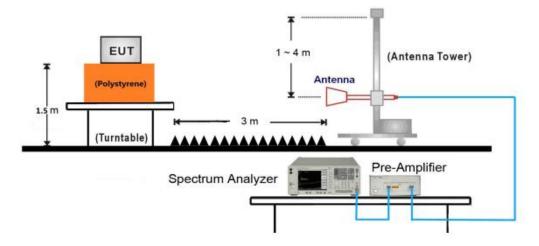
9kHz ~ 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:

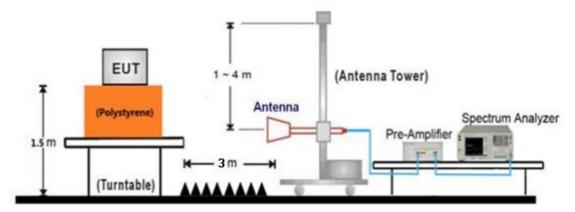


1GHz ~ 18GHz Test Setup:





18GHz ~ 25GHz Test Setup:



7. Conducted RF test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)	
Notebook	Lenove	E470	PF-OU5TS7 17/09	

Test software: BlueNRG GUI-3.0.0.0-Setup

Test Mode Applicability and Tested Channel Detail:

Mode	Tested Channel	Data Rate (Mbps)	Modulation	Power level setting
	0	1	GFSK	8dBm
Bluetooth LE	19	1	GFSK	8dBm
	39	1	GFSK	8dBm

The system was configured to channel 0, 19, and 39 for the test.

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



9 Technical Requirement

9.1 Conducted peak output power

Test Method

- Use the following spectrum analyzer settings:
 RBW > the 6 dB bandwidth of the emission being measured, VBW≥3RBW, Span≥3RBW
 Sweep = auto, Detector function = peak, Trace = max hold.
- 2. Add a correction factor to the display.
- 3. Use a power meter to measure the conducted peak output power.

Limits

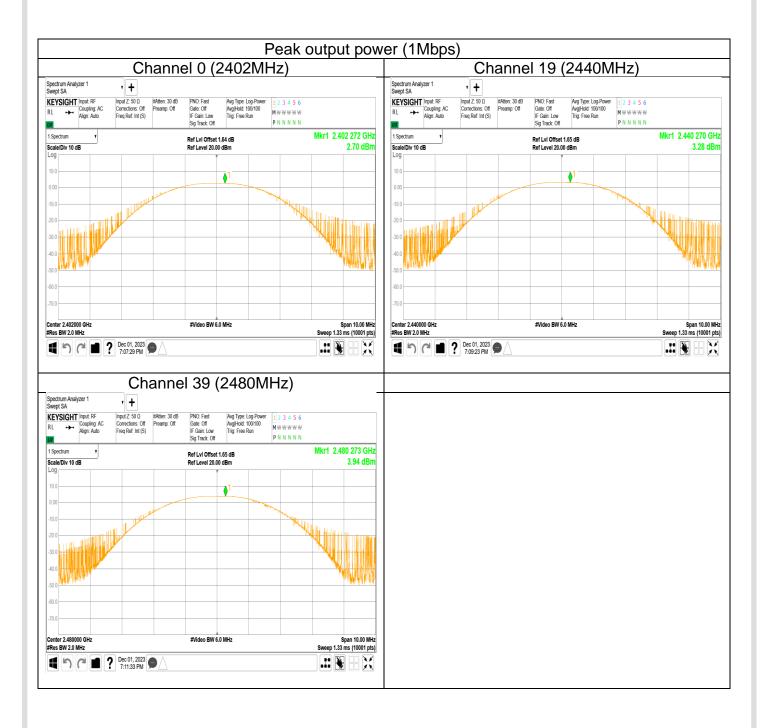
According to §15.247 (b) (1) conducted peak output power limit as below:

Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30

Test result as below table

Data transmission	Frequency	Conducted Peak Output Power (dBm) §15.247 (b) (1)			
Rate	(MHz)	Result	limit	Verdict	
	2402MHz	2.70	≤30	Pass	
1Mbps	2440MHz	3.28	≤30	Pass	
	2480MHz	3.94	≤30	Pass	







9.2 6dB bandwidth

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings: RBW=100KHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Use the automatic bandwidth measurement capability of an instrument, use the X dB bandwidth mode with X set to 6 dB.
- 5. Allow the trace to stabilize, record the 6 dB Bandwidth value.

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Limit [kHz]	
 ≥500	

Test result

Data	Frequency	` '		Result
transmission rate	MHz	result	limit	verdict
	2402	0.501	≥0.5	Pass
1Mbps	2440	0.501	≥0.5	Pass
	2480	0.502	≥0.5	Pass



6dB Bandwidth





9.3 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

- 1. The RF output of EUT was connected to the spectrum analyzer. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings:
- 4. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW≥3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
- 5. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
- 6. Repeat above procedures until other frequencies measured were completed.

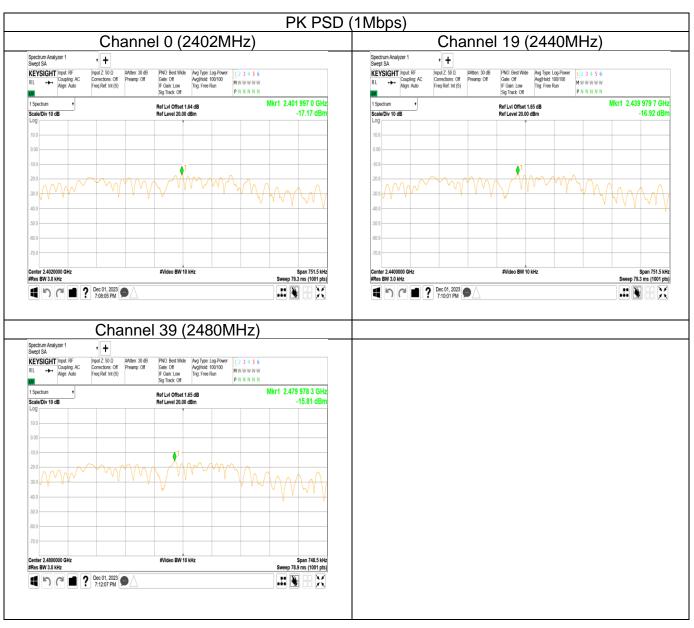
Limit

Limit [dBm/3kHz]	
≤ 8	

Test result

Data transmission rate	Frequency	Power spectral density	Result
	MHz	dBm/3kHz	
1Mbps	Top channel 2402MHz	-17.17	Pass
Πνίδρο	Middle channel 2440MHz	-16.92	Pass
	Bottom channel 2480MHz	-15.81	Pass







9.4 Spurious RF conducted emissions

Test Method

- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings:

 Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

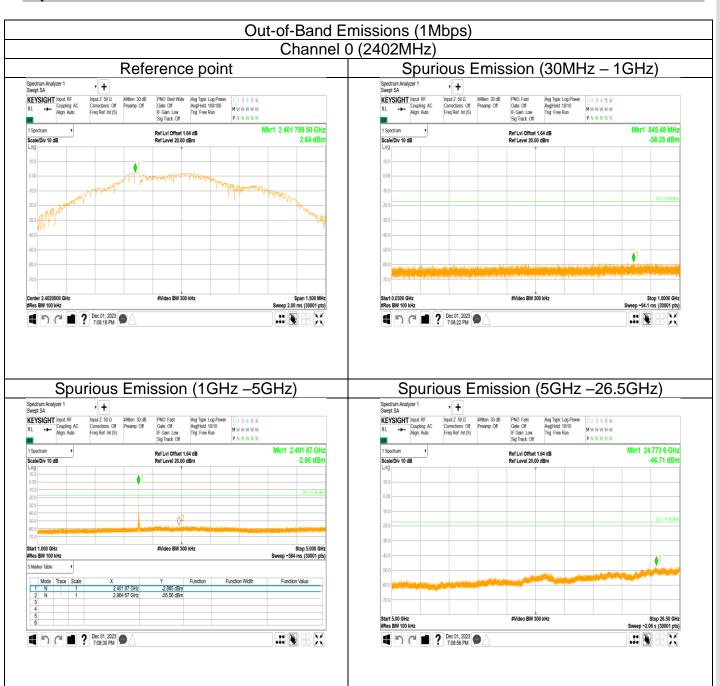
 RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
- 5. The level displayed must comply with the limit specified in this Section. Submit these plots.
- 6. Repeat above procedures until all frequencies measured were complete.

Limit

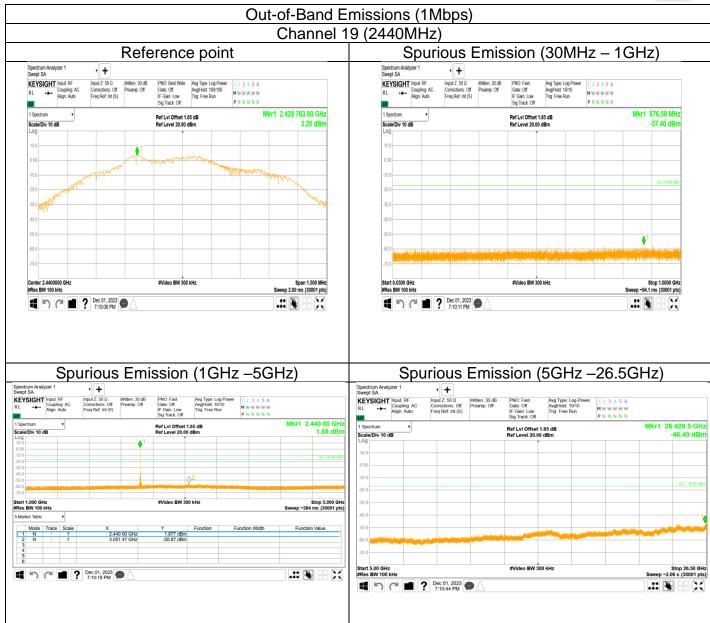
Frequency Ra MHz	nge Limit (dBc)
30-25000	-20



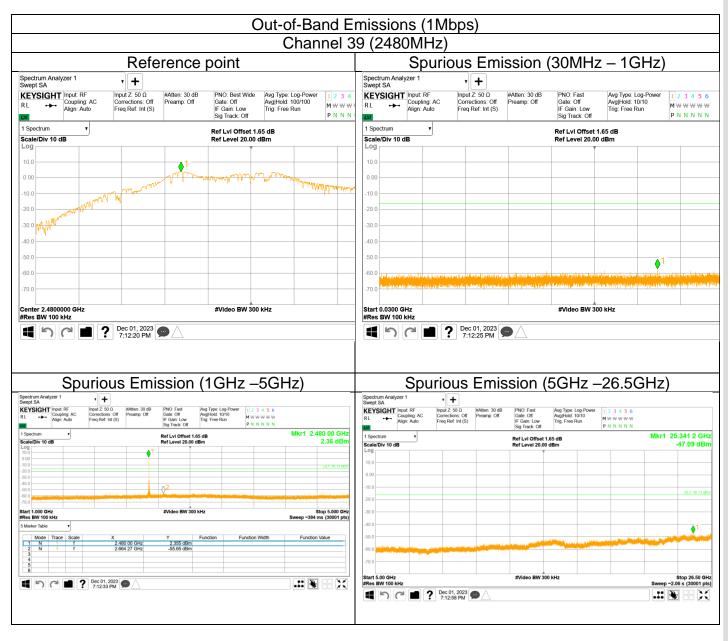
Spurious RF conducted emissions













9.5 Band edge

Test Method

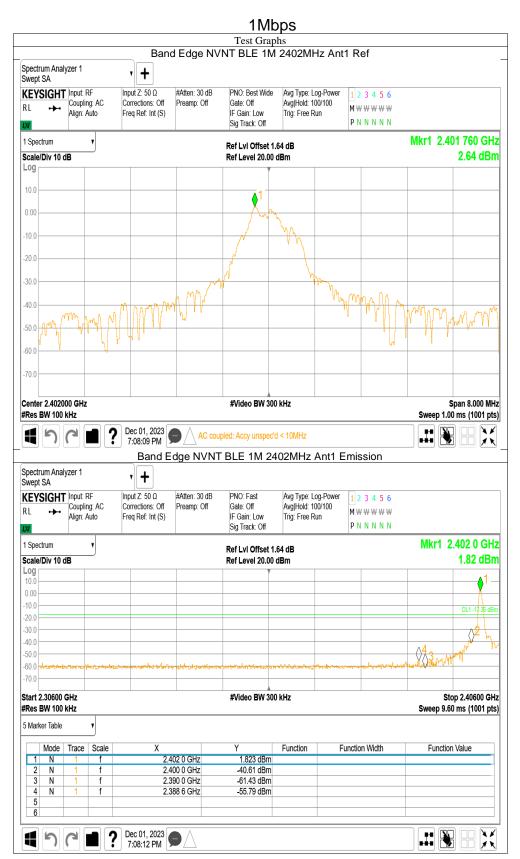
- 1. The RF output of EUT was connected to the spectrum analyzer by RF cable. The path loss was compensated to the results for each measurement.
- 2. Set to the maximum power setting, the instrument center frequency is set to the nominal EUT channel center frequency enable the EUT transmit continuously.
- 3. Use the following spectrum analyzer settings: Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 kHz, VBW≥3RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 5. The level displayed must comply with the limit specified in this Section.
- 6. Repeat above procedures until all frequencies measured were complete and submit all the plots.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3), the attenuation required shall be 30 dB instead of 20 dB.



Test result









9.6 Spurious radiated emissions for transmitter

Test Method

- 1. The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- 3. The height of antenna 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.
- 4. 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 and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. Use the following spectrum analyzer settings According to C63.10
 - 1) Procedure for Unwanted Emissions Measurements Below 1000 MHz
 Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 kHz to 120kHz, VBW≥RBW for peak measurement, Sweep = auto, Detector
 function = peak, Trace = max hold.
 - 2) For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1GHz

- a) RBW = 1MHz.
- b) VBW \ $[3 \times RBW]$.
- c) Detector = RMS (power averaging), if [span / (# of points in sweep)] \ RBW / 2. Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of 1 / D, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
- 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is [10 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 3 dB shall be added to the measured emission levels.



- 2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.
- 3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission (AV) at frequency above 1GHz.

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under § 15.247(b)(3), the attenuation required shall be 30 dB instead of 20 dB. Attenuation below the general field strength limits specified in § 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in § 15.209(a).

Frequency	Field Strength	Measured Distance Meters
MHz	uV/m	Meters
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30	30	30

Frequency	Field Strength	Field Strength	Detector
MHz	uV/m	dBμV/m	_
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK



Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Data of measurement within frequency range 9kHz-30MHz is the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.

Above 1GHz Transmitting spurious emission test result as below:

	Test mode:GFSK 1Mbps (2402MHz)							
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization			
2384.23	44.09	74.00	29.91	PK	Horiznotal			
4804.11	42.31	74.00	31.69	PK	Horiznotal			
2383.75	43.97	74.00	30.03	PK	Vertical			
4804.60	44.88	74.00	29.12	PK	Vertical			

Test mode:GFSK 1Mbps (2440MHz)							
Frequency MHz			Margin (dB)	Detector	Polarization		
4879.28	43.73	74.00	30.27	PK	Horiznotal		
3979.53	44.81	74.00	29.19	PK	Vertical		

	Test mode:GFSK 1Mbps (2480MHz)						
Frequency MHz	Measure Level (dBuV/m)	Limit (dBuV/M	Margin (dB)	Detector	Polarization		
2483.92	49.91	74.00	24.09	PK	Horiznotal		
4961.25	42.34	74.00	31.66	PK	Horiznotal		
2483.58	53.17	74.00	20.83	PK	Vertical		
2483.94	50.07	54.00	3.93	AV	Vertical		
4959.30	45.30	74.00	28.70	PK	Vertical		
5763.96	49.17	74.00	24.83	PK	Vertical		

Remark:

- (1) Emission level= Original Receiver Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss Amplifier gain
- (3) Margin = limit Corrected Reading

The worst case of Radiated Emission below 1GHz:



30-1000MHz Radiated Emission

EUT Information

EUT Name: RIX Laser RangeFinder

Model: LRF-01 Client: Visir Inc.

Op Cond: Power on, transmitting at 2480MHz, T21.9, H61.1%, P100.1kPa

Operator: Guo Chengjie
Test Spec: FCC Part 15.209(a)
Comment: Horizontal
Sample No: SHA-772520-2

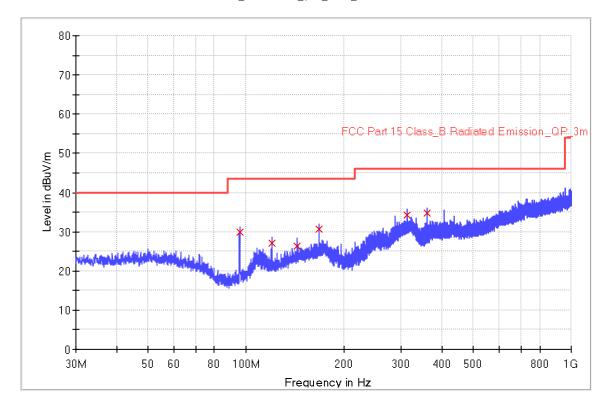
Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168

Receiver: [ESR 3] Level Unit: dBuV/m

SubrangeStep SizeDetectorsBandwidthSweep TimePreamp30 MHz - 1 GHz48.5 kHzPK+120 kHz0.2 s20 dB

RE_VULB9168_pre_Cont_30-1000





Limit and Margin

	a. g								
Frequency	QuasiPeak	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.	Margin -	Limit - QPK
(MHz)	(dBuV/m)	(ms)	(kHz)	(cm)		(deg)	(dB/m)	QPK	(dBuV/m)
				, ,			, ,	(dB)	
95.880000	30.0	1000.0	120.000	124.0	Н	163.0	15.6	13.5	43.5
119.960000	27.0	1000.0	120.000	214.0	Н	114.0	18.1	16.5	43.5
143.840000	26.5	1000.0	120.000	214.0	Н	214.0	20.5	17.1	43.5
168.000000	30.7	1000.0	120.000	225.0	Н	215.0	20.4	12.8	43.5
311.960000	34.2	1000.0	120.000	164.0	Н	167.0	21.9	11.9	46.0
360.040000	34.7	1000.0	120.000	215.0	Н	177.0	23.0	11.3	46.0



30-1000MHz Radiated Emission

EUT Information

EUT Name: RIX Laser RangeFinder

Model: LRF-01 Client: Visir Inc.

Op Cond: Power on, transmitting at 2480MHz, T21.9, H61.1%, P100.1kPa

Operator: Guo Chengjie
Test Spec: FCC Part 15.209(a)

Comment: Vertical

Sample No: SHA-772520-2

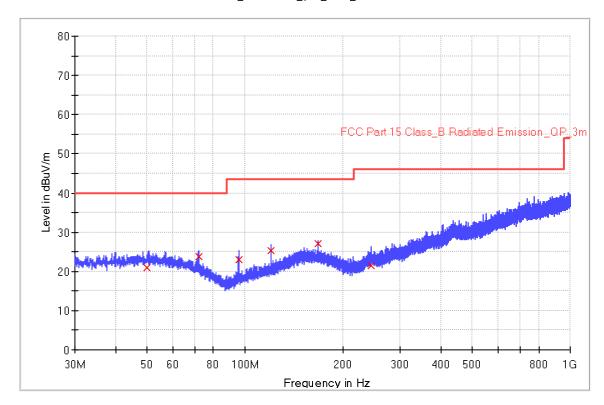
Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

Hardware Setup: RE_VULB9168

Receiver: [ESR 3] Level Unit: dBuV/m

SubrangeStep SizeDetectorsBandwidthSweep TimePreamp30 MHz - 1 GHz48.5 kHzPK+120 kHz0.2 s20 dB

RE_VULB9168_pre_Cont_30-1000





Limit and Margin

Frequency	QuasiPeak	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.	Margin -	Limit - QPK
(MHz)	(dBuV/m)	(ms)	(kHz)	(cm)		(deg)	(dB/m)	QPK	(dBuV/m)
								(dB)	
50.120000	20.9	1000.0	120.000	175.0	٧	164.0	20.5	19.1	40.0
72.000000	23.7	1000.0	120.000	214.0	٧	123.0	18.2	16.3	40.0
95.640000	23.1	1000.0	120.000	175.0	٧	213.0	15.6	20.4	43.5
119.960000	25.2	1000.0	120.000	215.0	٧	175.0	18.1	18.3	43.5
168.000000	27.0	1000.0	120.000	186.0	٧	212.0	20.4	16.5	43.5
244.400000	21.5	1000.0	120.000	221.0	٧	174.0	19.8	24.5	46.0

Note 1: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB)

Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: $9kHz \sim 30MHz$, $18GHz \sim 25GHz$), therefore no data appear in the report.



10 Test Equipment List

List of Test Instruments Test Site1

	DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DATE	CAL. DUE DATE
С	Signal spectrum analyzer	Agilent	N9020B	MY59050168	2023-2-10	2024-2-9
	EMI Test Receiver	Rohde & Schwarz	ESR3	101906	2023-8-1	2024-7-31
	Signal Analyzer	Rohde & Schwarz	FSV40	101091	2023-8-1	2024-7-31
	Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9168	961	2019-9-23	2024-9-22
	Horn Antenna	Rohde & Schwarz	HF907	102393	2021-3-15	2024-3-14
	Pre-amplifier	Rohde & Schwarz	SCU-18D	19006451	2023-8-1	2024-7-31
RE	Loop antenna	Rohde & Schwarz	HFH2-Z2	100443	2023-6-15	2024-6-14
RE	DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ)	ETS-Lindgren	3116C	00246076	2023-7-7	2026-7-6
	3m Semi-anechoic chamber	TDK	9X6X6		2021-5-8	2024-5-7
	EMI Test Receiver	Rohde & Schwarz	ESR3	101907	2023-8-1	2024-7-31
CE	LISN	Rohde & Schwarz	ENV216	101924	2023-8-1	2024-7-31

	Measurement Software Information						
Test Item Software Manufacturer Ve							
С	MTS 8310	MWRFtest	2.0.0.0				
RE	EMC 32	Rohde & Schwarz	V10.50.40				
CE	EMC 32	Rohde & Schwarz	V9.15.03				

C - Conducted RF tests

- Conducted peak output power
- 6dB bandwidth and 99% Occupied Bandwidth
- Power spectral density*
- Spurious RF conducted emissions
- Band edge



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

Items	Extended Uncertainty
Conducted Disturbance at Mains Terminals	150kHz to 30MHz, LISN, 3.16dB
Radiated Disturbance	9kHz to 30MHz, 3.52dB
	30MHz to 1GHz, 5.03dB (Horizontal)
	5.12dB (Vertical)
	1GHz to 18GHz, 5.49dB
	18GHz to 40GHz, 5.63dB
RF Conducted Measurement	Power related: 1.16dB
	Frequency related: 6.00×10 ⁻⁸

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.

13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report-------