

TRI-GREAT INTERNATIONAL LTD

RF TEST REPORT

Report Type:

FCC Part 15.249 RF report

Model:

NIS317

REPORT NUMBER:

2601B2444SHA-001

ISSUE DATE:

June 12, 2026

DOCUMENT CONTROL NUMBER:

TTRF15.249-01_V1 © 2018 Intertek



Applicant: TRI-GREAT INTERNATIONAL LTD
NO.4 SAN LIAN ROAD,PING SHAN DISTRICT,TANGXIA
TOWN,DONGGUAN CITY,GUANGDONG PROVINCE

Manufacturer: TRI-GREAT INTERNATIONAL LTD
NO.4 SAN LIAN ROAD,PING SHAN DISTRICT,TANGXIA
TOWN,DONGGUAN CITY,GUANGDONG PROVINCE

Manufacturer Site: TRI-GREAT INTERNATIONAL LTD
NO.4 SAN LIAN ROAD,PING SHAN DISTRICT,TANGXIA
TOWN,DONGGUAN CITY,GUANGDONG PROVINCE

Product Name: SPORT RADAR GUN VELOCITY-X

Type/Model: NIS317

FCC ID: ROP26317

SUMMARY:

The equipment complies with the requirements according to the following standard(s) or Specification:

47CFR Part 15 (2024): Radio Frequency Devices (Subpart C)

ANSI C63.10 (2020): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

PREPARED BY:

Project Engineer
Dylan Tang

REVIEWED BY:

Reviewer
Wakeyou Wang

This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

TEST REPORT

Content

REVISION HISTORY	4
MEASUREMENT RESULT SUMMARY	5
1 GENERAL INFORMATION	6
1.1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)	6
1.2 TECHNICAL SPECIFICATION	6
1.3 DESCRIPTION OF TEST FACILITY	7
2 TEST SPECIFICATIONS	8
2.1 STANDARDS OR SPECIFICATION	8
2.2 MODE OF OPERATION DURING THE TEST	8
2.3 TEST SOFTWARE LIST	9
2.4 TEST PERIPHERALS LIST	9
2.5 TEST ENVIRONMENT CONDITION:	9
2.6 INSTRUMENT LIST	10
2.7 MEASUREMENT UNCERTAINTY	11
3 RADIATED EMISSIONS	12
3.1 LIMIT	12
3.2 MEASUREMENT PROCEDURE	12
3.3 TEST CONFIGURATION	14
3.4 TEST RESULTS OF RADIATED EMISSIONS	16
3.5 DUTY CYCLE:	22
4 20 DB BANDWIDTH & 99% OCCUPIED BANDWIDTH	23
4.1 LIMIT	23
4.2 MEASUREMENT PROCEDURE	23
4.3 TEST CONFIGURATION	23
4.4 THE RESULTS	24
5 ANTENNA REQUIREMENT	26

Revision History

Report No.	Version	Description	Issued Date
2601B2444SHA-001	Rev. 01	Initial issue of report	June 10, 2026

Measurement result summary

TEST ITEM	FCC REFERENCE	RESULT
Radiated Emissions	15.249(a)&15.209	Pass
20 dB Bandwidth & 99% Occupied Bandwidth	15.215(c)	Pass
Antenna requirement	15.203	Pass

Notes: 1: NA =Not Applicable

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	SPORT RADAR GUN VELOCITY-X
Type/Model:	NIS317
Description of EUT:	The EUT is SPORTRADARGUN VELOCITY-X, it has only one model.
Rating:	DC 3V
Category of EUT:	Class B
EUT type:	☒ Table top ☐ Floor standing
Software Version:	LDSR100_C_V1
Hardware Version:	LDSR100CM
Sample received date:	February 25, 2026
Date of test:	March 2, 2026 ~ June 5, 2026

1.2 Technical Specification

Frequency Range:	24100MHz ~ 24235MHz
Type of Modulation:	CW
Channel Number:	136
Antenna Information:	Microstrip Antenna

TEST REPORT

1.3 Description of Test Facility

Name:	Intertek Testing Services (Shanghai FTZ) Co., Ltd.
Address:	Building 86, No. 1198 Qinzhou Road(North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized, certified, or accredited by these organizations:	CNAS Accreditation Lab Registration No. CNAS L21189
	FCC Accredited Lab Designation Number: CN0175
	IC Registration Lab CAB identifier.: CN0014
	VCCI Registration Lab Registration No.: R-4243, G-845, C-4723, T-2252
	NVLAP Accreditation Lab NVLAP LAB CODE: 200849-0
	A2LA Accreditation Lab Certificate Number: 3309.02

TEST REPORT

2 TEST SPECIFICATIONS

2.1 Standards or specification

47CFR Part 15 (2024)

ANSI C63.10 (2020)

2.2 Mode of operation during the test

The channel was tested as representatives.

Frequency Band (MHz)				24100 ~ 24240			
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	24100	2	24101	3	24102	4	24103
5	24104	6	24105	7	24106	8	24107
9	24108	10	24109	11	24110	12	24111
13	24112	14	24113	15	24114	16	24115
17	24116	18	24117	19	24118	20	24119
21	24120	22	24121	23	24122	24	24123
25	24124	26	24125	27	24126	28	24127
29	24128	30	24129	31	24130	32	24131
33	24132	34	24133	35	24134	36	24135
37	24136	38	24137	39	24138	40	24139
41	24140	42	24141	43	24142	44	24143
45	24144	46	24145	47	24146	48	24147
49	24148	50	24149	51	24150	52	24151
53	24152	54	24153	55	24154	56	24155
57	24156	58	24157	59	24158	60	24159
61	24160	62	24161	63	24162	64	24163
65	24164	66	24165	67	24166	68	24167
69	24168	70	24169	71	24170	72	24171
73	24172	74	24173	75	24174	76	24175
77	24176	78	24177	79	24178	80	24179
81	24180	82	24181	83	24182	84	24183
85	24184	86	24185	87	24186	88	24187
89	24188	90	24189	91	24190	92	24191
93	24192	94	24193	95	24194	96	24195
97	24196	98	24197	99	24198	100	24199
101	24200	102	24201	103	24202	104	24203
105	24204	106	24205	107	24206	108	24207
109	24208	110	24209	111	24210	112	24211
113	24212	114	24213	115	24214	116	24215
117	24216	118	24217	119	24218	120	24219

TEST REPORT

121	24220	122	24221	123	24222	124	24223
125	24224	126	24225	127	24226	128	24227
129	24228	130	24229	131	24230	132	24231
133	24232	134	24233	135	24234	136	24235

2.3 Test software list

Test Items	Software	Manufacturer	Version
Conducted emission	ESxS-K1	R&S	V2.1.0
Radiated emission	ES-K1	R&S	V1.71

2.4 Test peripherals list

Item No.	Name	Band and Model	Description
-	-	-	-

2.5 Test environment condition:

Test items	Temperature	Humidity
20 dB Bandwidth & 99% Occupied Bandwidth	22°C	55% RH
Radiated Emissions		
Power line conducted emission	21°C	52% RH

TEST REPORT

2.6 Instrument list

Conducted Emission						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☐	Test Receiver	R&S	ESR7	EC 6194	2026-02-08	2027-02-09
☐	A.M.N.	R&S2025-07-23	ESH2-Z5	EC 3119	2025-07-21	2026-07-22
☐	A.M.N.	R&S	ENV4200	EC 3558	2025-07-15	2026-07-16
☐	Attenuator	Hua Xiang	Ts5-10db-6g	EC 6194-1	2026-01-12	2027-01-13
☐	Shielded room	Zhongyu	-	EC 2838	2025-01-07	2027-01-08
Radiated Emission						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☒	Test Receiver	R&S	ESIB 26	EC 3045	2024-08-06	2026-08-05
☒	Test Receiver	R&S	ESR	EC6501	2025-10-20	2026-10-19
☒	PXA Signal Analyzer	Keysight	N9030B	EC 6078	2026-03-31	2027-03-30
☒	Bilog Antenna	TESEQ	CBL 6112B	EC 6411	2025-09-28	2026-09-27
☐	Pre-amplifier	R&S	AFS42-00101800-25-S-42	EC 5262	2025-11-07	2026-11-06
☒	Pre-amplifier	Tonscend	tap01018050	EC 6432-1	2025-12-10	2026-12-09
☒	Horn antenna	Tonscend	bha9120d	EC 6432-2	2026-04-11	2027-04-10
☒	Horn antenna	ETS	3116c	EC 5955	2025-08-25	2026-08-24
☒	WW wave antenna (40-60G)	VDi	M19RH	EC 6529-1	2026-05-15	2029-05-14
☒	Mixer (40-60G)		SAX	EC 6529	2026-03-19	2027-03-18
☒	WW wave antenna (60-90G)	VDi	M12RH	EC 6382-1	2026-05-15	2029-05-14
☒	Mixer (60-90G)		SAX	EC 6382	2026-03-19	2027-03-18
☒	WW wave antenna (90-140G)	VDi	M08RH	EC 6383-1	2024-08-30	2027-08-29
☒	Mixer (90-140G)		SAX	EC 6383	2026-03-19	2027-03-18
☒	Semi-anechoic chamber	Albatross project	-	EC 3048	2025-07-10	2026-07-11
Additional instrument						
Used	Equipment	Manufacturer	Type	Internal no.	Calibration date	Due date
☒	Therom-Hygrograph	Testo	175h1	EC 6640	2025-08-04	2026-08-03
☒	Pressure meter	YM3	Shanghai Mengde	EC 3320	2025-08-05	2026-08-04

2.7 Measurement uncertainty

The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Test item	Measurement uncertainty
Radiated Emissions in restricted frequency bands below 1GHz	$\pm 4.90\text{dB}$
Radiated Emissions in restricted frequency bands above 1GHz	$\pm 5.02\text{dB}$
Emission outside the frequency band	$\pm 2.89\text{dB}$

TEST REPORT

3 Radiated Emissions

Test result: Pass

3.1 Limit

Fundamental Frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902 - 928	94	54
2400 - 2483.5	94	54
5725 - 5875	94	54
24000 - 24250	108	68

The radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified showed as below:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 ~ 0.490	$2400/F(\text{kHz})$	300
0.490 ~ 1.705	$24000/F(\text{kHz})$	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

3.2 Measurement Procedure

For Radiated emission below 30MHz:

- The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- Both X and Y axes of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

TEST REPORT

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz:

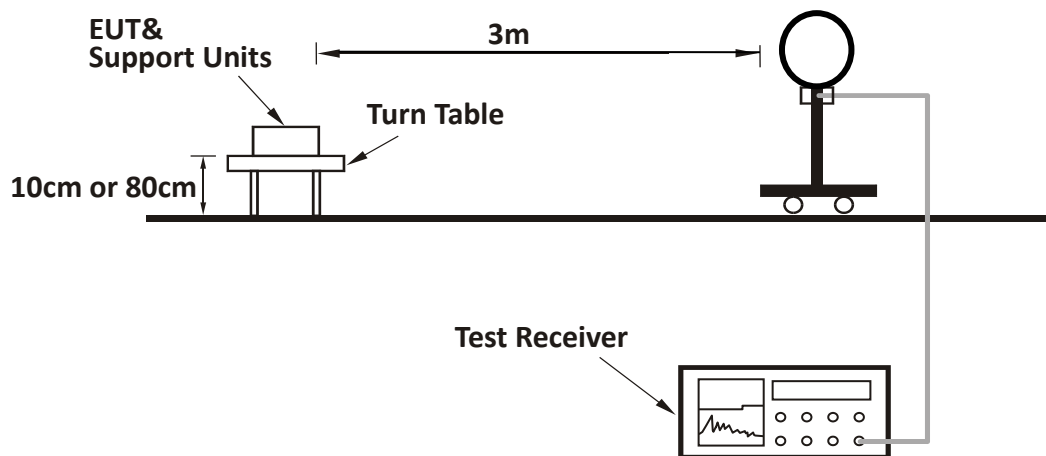
- a) The EUT was placed on the top of a rotating table 0.1 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 or 1 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) 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.
- d) 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.
- e) The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f) The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

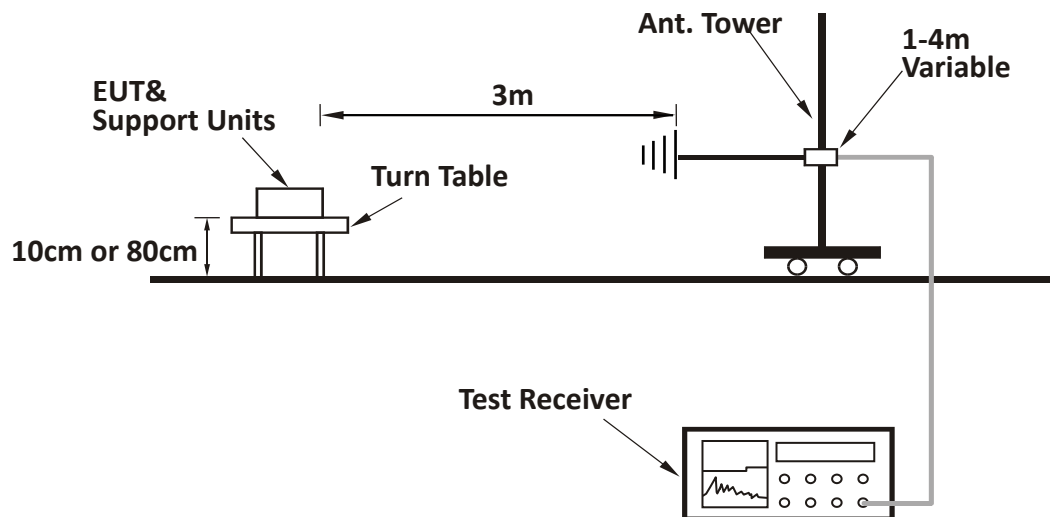
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or $3 \times \text{RBW}$ (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported

3.3 Test Configuration

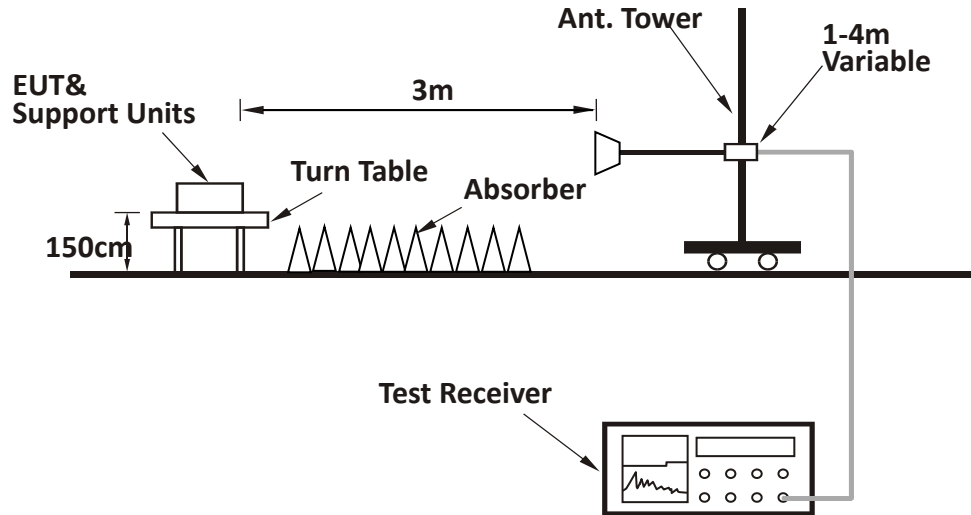
For Radiated emission below 30MHz:



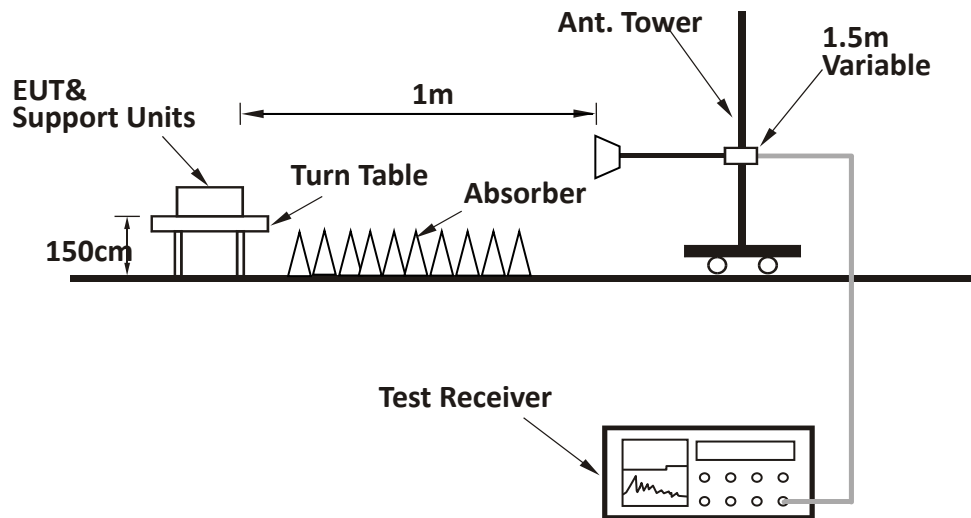
For Radiated emission 30MHz to 1GHz:



For Radiated emission 1GHz to 40GHz:



For Radiated emission above 40GHz:

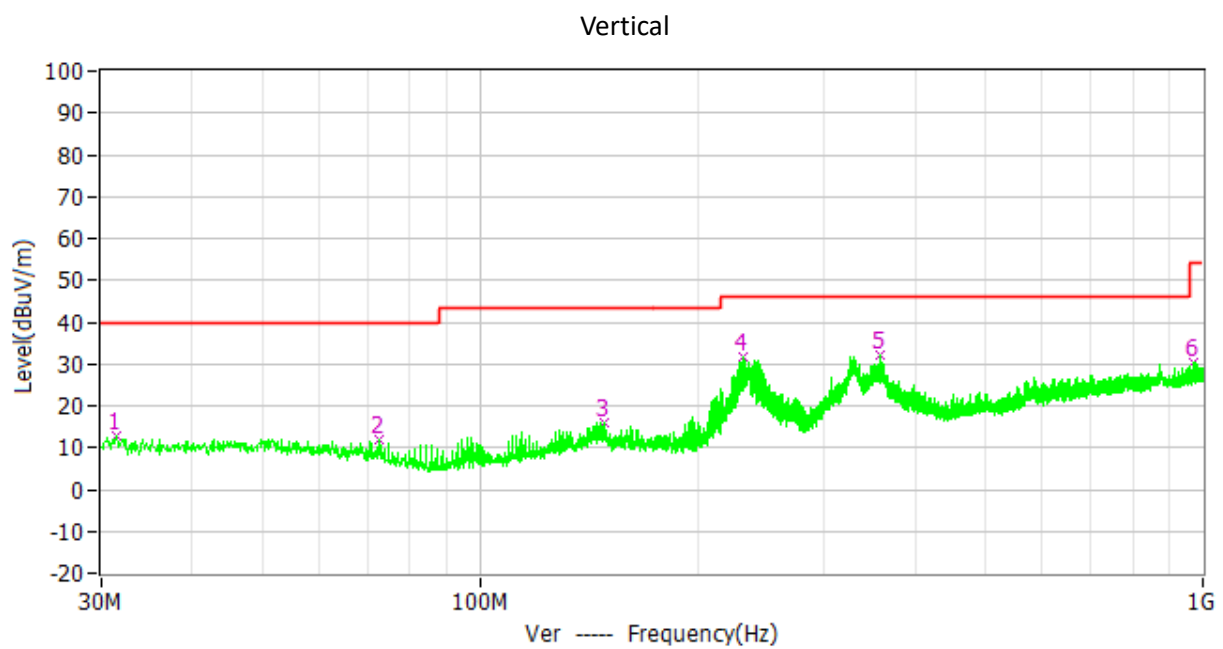
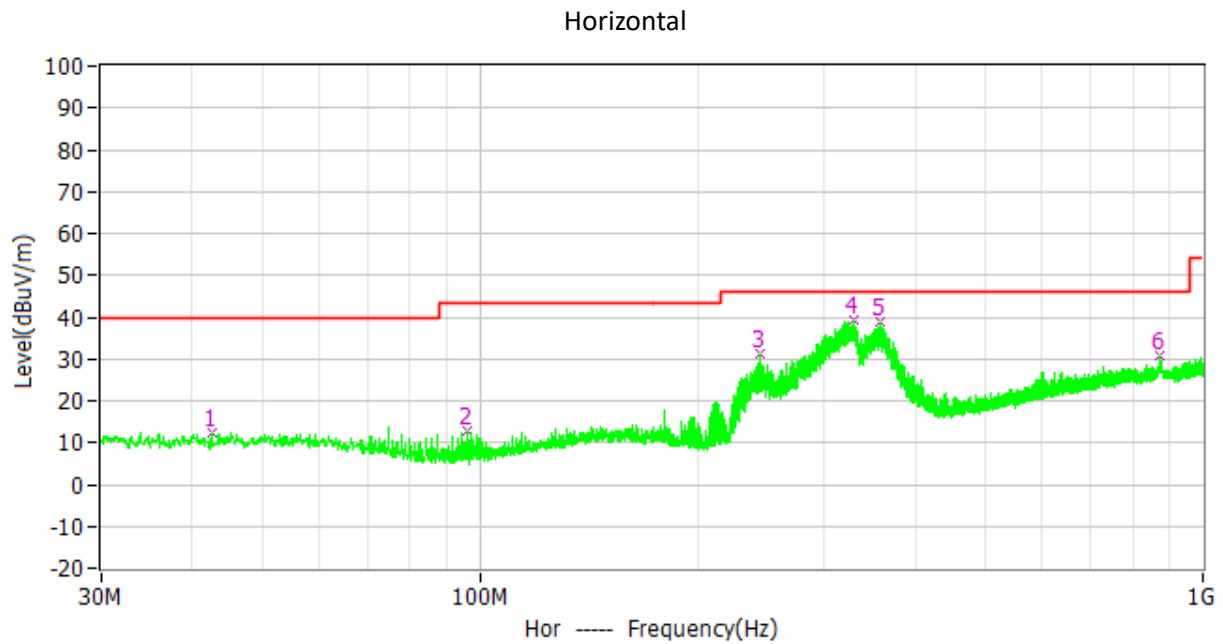


TEST REPORT

3.4 Test Results of Radiated Emissions

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

The worst waveform from 30MHz to 1000MHz is listed as below:



TEST REPORT

Test data below 1GHz

Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Correct Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector
H	42.610	12.4	13.4	40.0	27.6	QP
H	96.154	12.9	9.3	43.5	30.6	QP
H	244.370	31.1	13.9	46.0	14.9	QP
H	328.566	39.3	16.5	46.0	6.7	QP
H	357.084	39.1	17.1	46.0	6.9	QP
H	869.147	30.8	27.6	46.0	15.2	QP
V	31.455	12.6	12.2	40.0	27.4	QP
V	72.777	12.1	11.3	40.0	27.9	QP
V	149.019	15.9	14.5	43.5	27.6	QP
V	231.178	31.6	13.2	46.0	14.4	QP
V	357.472	32.1	17.1	46.0	13.9	QP
V	972.355	30.4	28.6	54.0	23.6	QP

Test result above 1GHz:

Channel	Antenna	Frequency Band (GHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	24.00 ~ 24.25	105.77	128.00	22.23	PK
	H		104.50	108.00	3.5	AV
	V		86.83	128.00	41.17	PK
	V		85.43	108.00	22.57	AV
M	H		108.48	128.00	19.52	PK
	H		106.93	108.00	1.07	AV
	V		90.52	128.00	37.48	PK
	V		89.85	108.00	18.15	AV
H	H		106.82	128.00	21.18	PK
	H		105.52	108.00	2.48	AV
	V		90.44	128.00	37.56	PK
	V		89.13	108.00	18.87	AV

TEST REPORT

Channel	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	23684	45.90	74.00	28.1	PK
	H	23684	34.10	54.00	19.9	AV
	H	24000	45.10	74.00	28.9	PK
	H	24000	35.60	54.00	18.4	AV
	H	24250	44.30	74.00	29.7	PK
	H	24250	34.80	54.00	19.2	AV
	H	24398	45.90	74.00	28.1	PK
	H	24398	34.90	54.00	19.1	AV
	V	23660	46.00	74.00	28.0	PK
	V	23660	35.40	54.00	18.6	AV
	V	24000	43.60	74.00	30.4	PK
	V	24000	33.80	54.00	20.2	AV
	V	24250	44.20	74.00	29.8	PK
	V	24250	34.20	54.00	19.8	AV
	V	24581	46.50	74.00	27.5	PK
	V	24581	35.10	54.00	18.9	AV
H	H	23832	45.50	74.00	28.5	PK
	H	23832	34.10	54.00	19.9	AV
	H	24000	43.10	74.00	30.9	PK
	H	24000	33.00	54.00	21.0	AV
	H	24250	42.60	74.00	31.4	PK
	H	24250	32.50	54.00	21.5	AV
	H	24560	46.30	74.00	27.7	PK
	H	24560	35.80	54.00	18.2	AV
	V	23707	46.30	74.00	27.7	PK
	V	23707	35.90	54.00	18.1	AV
	V	24000	43.10	74.00	30.9	PK
	V	24000	32.00	54.00	22.0	AV
	V	24250	42.60	74.00	31.4	PK
	V	24250	31.50	54.00	22.5	AV
	V	24560	46.30	74.00	27.7	PK
	V	24560	35.80	54.00	18.2	AV

The emission was conducted from 1GHz to 40GHz

Channel	Antenna	Frequency (MHz)	Corrected Reading (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	7269	50.39	74.00	23.61	PK
	H	7269	34.15	54.00	19.85	AV
	H	17523	50.53	74.00	23.47	PK
	H	17523	38.32	54.00	15.68	AV
	H	19826	46.60	74.00	27.40	PK

TEST REPORT

	H	19826	37.80	54.00	16.20	AV
	H	38038	51.80	74.00	22.20	PK
	H	38038	42.90	54.00	11.10	AV
	V	7269	50.57	74.00	23.43	PK
	V	7269	32.75	54.00	21.25	AV
	V	17489	49.44	74.00	24.56	PK
	V	17489	38.41	54.00	15.59	AV
	V	21804	45.40	74.00	28.60	PK
	V	21804	36.60	54.00	17.4	AV
	V	39195	53.30	74.00	20.7	PK
	V	39195	44.10	54.00	9.90	AV
M	H	7269	52.31	74.00	21.69	PK
	H	7269	36.77	54.00	17.23	AV
	H	17966	50.37	74.00	23.63	PK
	H	17966	38.74	54.00	15.26	AV
	H	20981	45.00	74.00	29.00	PK
	H	20981	34.90	54.00	19.10	AV
	H	38629	51.30	74.00	22.70	PK
	H	38629	41.30	54.00	12.70	AV
	V	7269	50.92	74.00	23.08	PK
	V	7269	33.62	54.00	20.38	AV
	V	17727	49.92	74.00	24.08	PK
	V	17727	38.81	54.00	15.19	AV
	V	19058	45.50	74.00	28.50	PK
	V	19058	36.80	54.00	17.20	AV
	V	39197	51.20	74.00	22.80	PK
	V	39197	41.90	54.00	12.10	AV
H	H	7269	53.01	74.00	20.99	PK
	H	7269	34.32	54.00	19.68	AV
	H	17489	49.92	74.00	24.08	PK
	H	17489	38.15	54.00	15.85	AV
	H	22134	45.8	74.00	28.20	PK
	H	22134	37.1	54.00	16.90	AV
	H	39373	52.2	74.00	21.80	PK
	H	39373	43.9	54.00	10.10	AV
	V	7200	51.93	74.00	22.07	PK
	V	7200	35.20	54.00	18.80	AV
	V	17693	50.41	74.00	23.59	PK
	V	17693	38.39	54.00	15.61	AV
	V	19395	47.1	74.00	26.90	PK
	V	19395	38.6	54.00	15.40	AV
	V	39408	53.2	74.00	20.80	PK
	V	39408	44.4	54.00	9.60	AV

TEST REPORT

- Remark: 1. Correct Factor = Antenna Factor + Cable Loss (- Amplifier, for higher than 1GHz), the value was added to Original Receiver Reading by the software automatically.
2. Corrected Reading = Original Receiver Reading + Correct Factor
3. Margin = Limit - Corrected Reading
4. If the PK Corrected Reading is lower than AV limit, the AV test can be elided.

Example: Assuming Antenna Factor = 30.20dB/m, Cable Loss = 2.00dB,
Gain of Preamplifier = 32.00dB, Original Receiver Reading = 10.00dBuV,
Limit = 40.00dBuV/m.
Then Correct Factor = 30.20 + 2.00 – 32.00 = 0.20dB/m;
Corrected Reading = 10dBuV + 0.20dB/m = 10.20dBuV/m;
Margin = 40.00dBuV/m - 10.20dBuV/m = 29.80dB.

The emission was conducted from 40GHz to 100GHz

Channel	Antenna	Frequency (MHz)	Measured Level (dBm)	Antenna Gain (dBi)	Level@1m (dBuV/m)	Level@3m (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
L	H	41000	-77.87	22.56	69.08	59.54	74.00	14.46	PK
	H	41000	-96.68	22.56	50.27	40.73	54.00	13.27	AV
	H	72300	-71.46	22.90	80.08	70.54	88.00	17.46	PK
	H	72300	-74.26	22.90	77.28	67.74	68.00	0.26	AV
	H	93400	-77.23	22.75	76.69	67.14	74.00	6.86	PK
	H	93400	-95.39	22.75	58.53	48.98	54.00	5.02	AV
	V	40880	-78.61	22.56	68.32	58.78	74.00	15.23	PK
	V	40880	-96.19	22.56	50.74	41.20	54.00	12.81	AV
	V	72540	-75.61	22.90	75.96	66.42	88.00	21.58	PK
	V	72540	-76.36	22.90	75.21	65.67	68.00	2.33	AV
	V	93500	-77.23	22.84	76.60	67.06	74.00	6.94	PK
	V	93500	-96.47	22.84	57.36	47.82	54.00	6.18	AV
M	H	40920	-77.11	22.56	69.83	60.28	74.00	13.72	PK
	H	40920	-95.89	22.56	51.05	41.50	54.00	12.50	AV
	H	72540	-76.86	22.90	74.71	65.17	88.00	22.83	PK
	H	72540	-78.16	22.90	73.41	63.87	68.00	4.13	AV
	H	93500	-77.19	22.75	76.73	67.19	74.00	6.81	PK
	H	93500	-95.05	22.75	58.87	49.33	54.00	4.67	AV
	V	48000	-78.27	23.19	69.42	59.88	74.00	14.12	PK
	V	48000	-95.68	23.19	52.01	42.47	54.00	11.53	AV
	V	72720	-78.68	22.90	72.91	63.37	88.00	24.63	PK
	V	72720	-79.82	22.90	71.77	62.23	68.00	5.77	AV
	V	93500	-76.98	22.84	76.85	67.31	74.00	6.69	PK
	V	93500	-95.33	22.84	58.50	48.96	54.00	5.04	AV
H	H	40820	-76.65	22.56	70.27	60.72	74.00	13.28	PK
	H	40820	-95.48	22.56	51.44	41.89	54.00	12.11	AV
	H	72720	-75.05	22.90	76.54	67.00	88.00	21.00	PK
	H	72720	-76.84	22.90	74.75	65.21	68.00	2.79	AV
	H	93500	-76.58	22.75	77.34	67.80	74.00	6.20	PK
	H	93500	-94.12	22.75	59.80	50.26	54.00	3.74	AV

TEST REPORT

V	40200	-78.40	22.66	68.28	58.74	74.00	15.26	PK
V	40200	-95.14	22.66	51.54	42.00	54.00	12.00	AV
V	71370	-78.21	22.90	73.22	63.68	88.00	24.33	PK
V	71370	-79.55	22.90	71.88	62.34	68.00	5.67	AV
V	71370	-77.95	22.90	73.48	63.94	74.00	10.07	PK
V	71370	-79.49	22.90	71.94	62.40	54.00	-8.40	AV

Remark: 1. Correct Factor = Antenna Factor + Cable Loss + Mixer Conversion Loss, the value was added to Original Receiver Reading by the software automatically.

2. $\text{Level@1m} = 126.8 - 20\log(\lambda) + P - G$

where (According to ANSI 63.10 section 9.4):

E is the field strength of the emission at the measurement distance, in dB μ V/m

P is the power measured at the output of the test antenna, in dBm

λ is the wavelength of the emission under investigation [300/fMHz], in m

G is the gain of the test antenna, in dBi

3. Margin = Limit - Level@1m

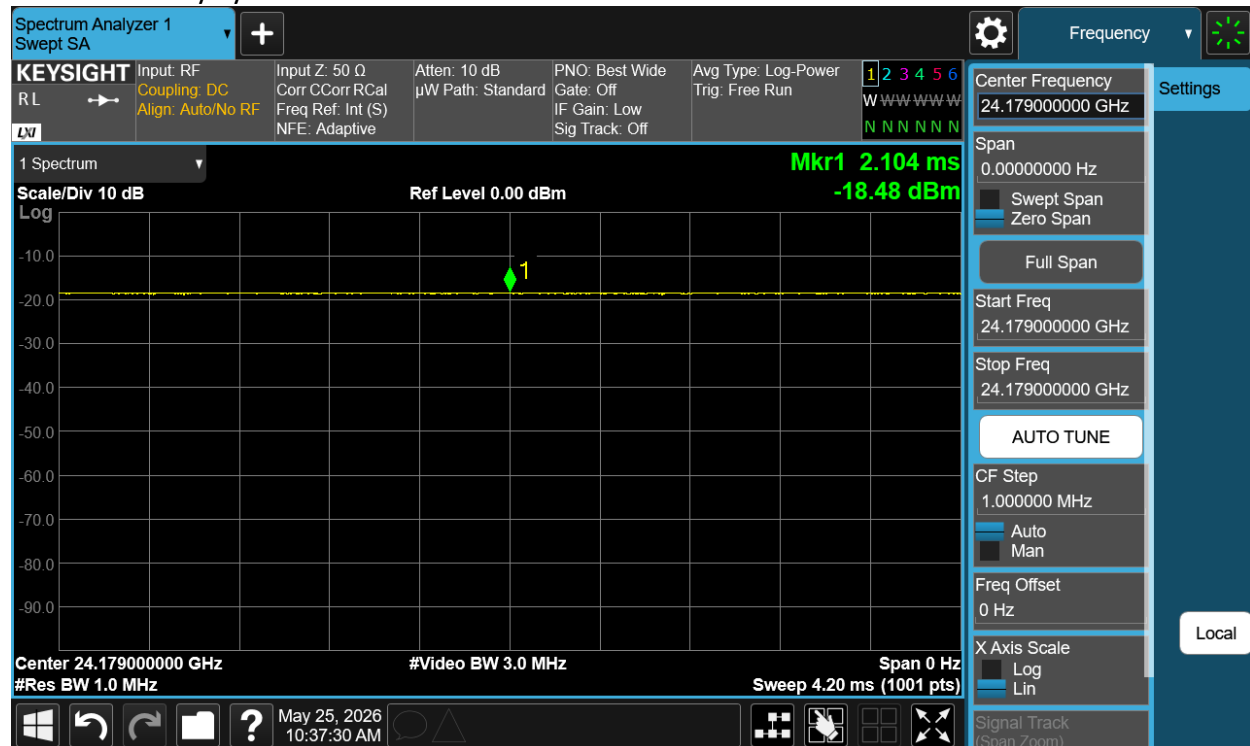
4. $\text{Level@3m} = \text{Level@1m} + 20\log(1\text{m}/3\text{m})$.

TEST REPORT

3.5 Duty Cycle:

The test data with maximum duty cycle was listed below.

The worst Duty cycle= 100%.



TEST REPORT

4 20 dB Bandwidth & 99% Occupied Bandwidth

Test result: Pass

4.1 Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission is contained within the allocated frequency band.

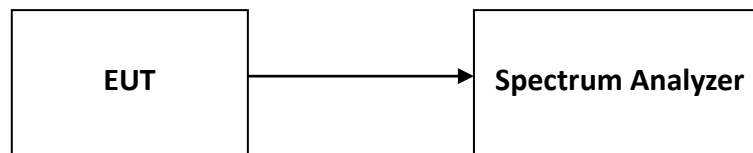
4.2 Measurement Procedure

The 20dB Bandwidth is measured using the Spectrum Analyzer.

Set Span = 2 to 3 times the 20 dB bandwidth, RBW = approximately 1% of the 20 dB bandwidth, VBW>RBW, Sweep = auto, Detector = peak, Trace = max hold.

The test was performed at 2 channels (lowest and highest channel).

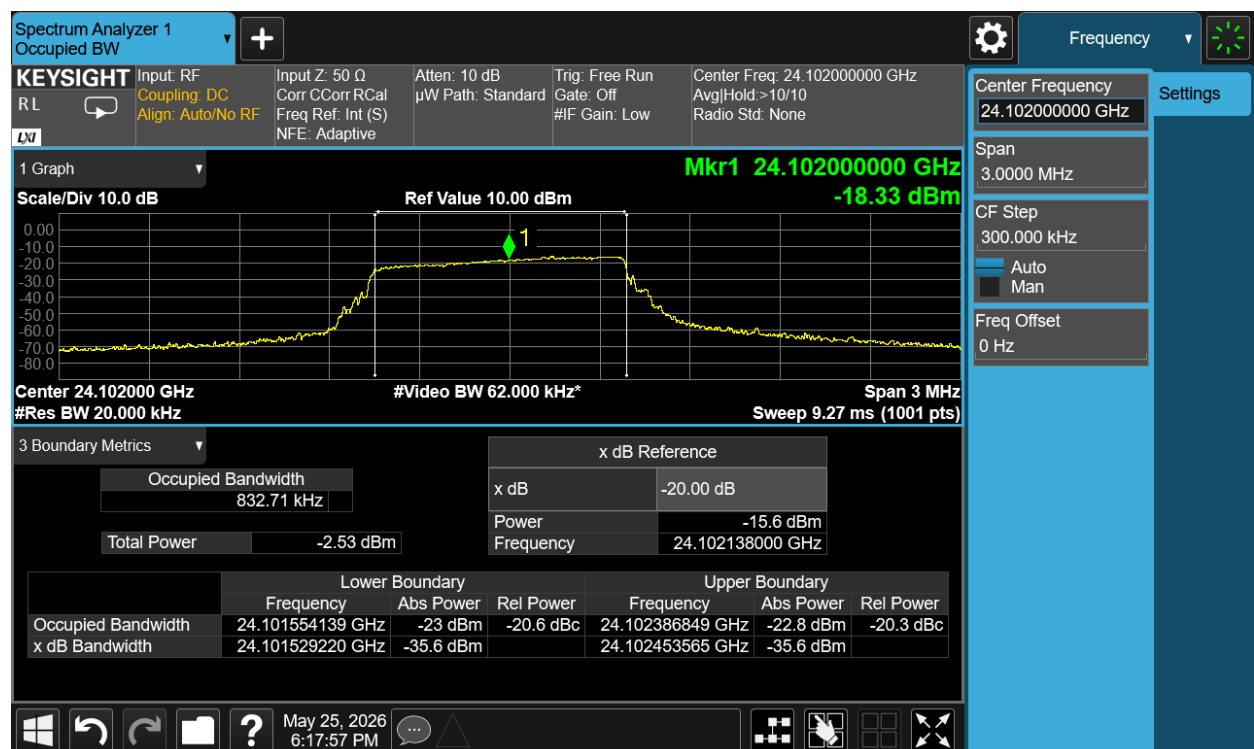
4.3 Test Configuration



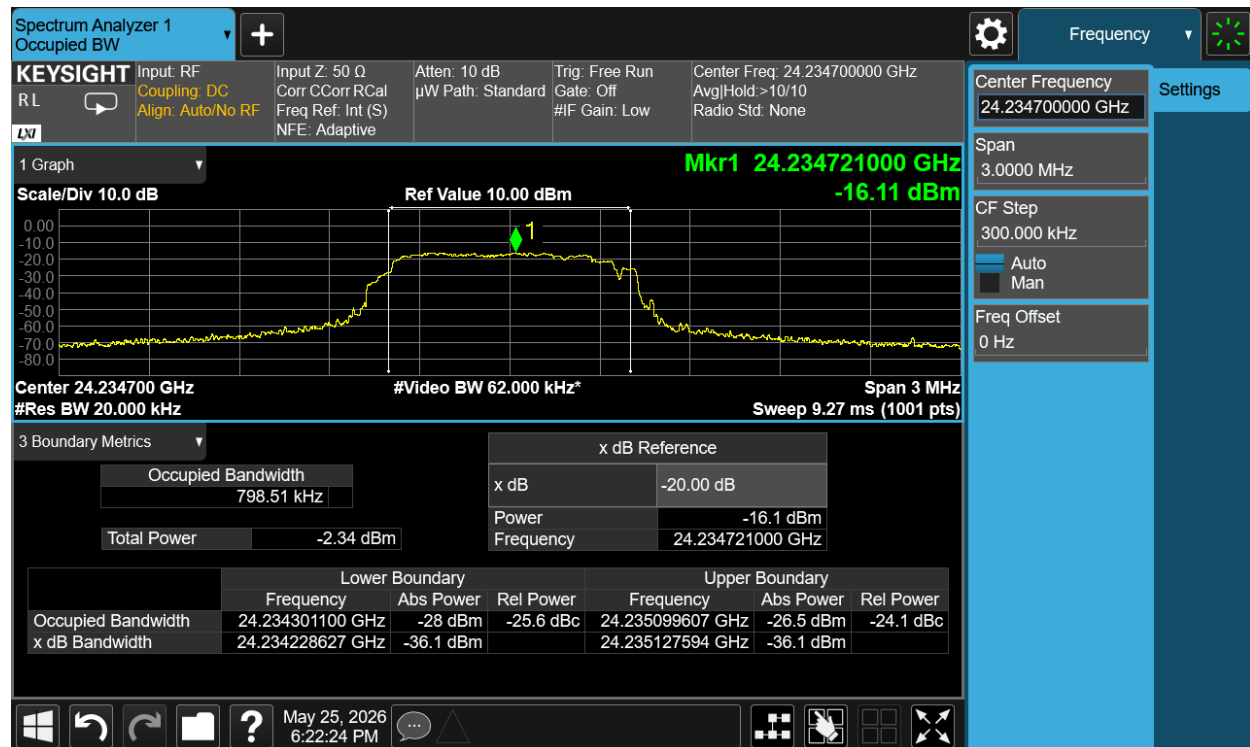
TEST REPORT

4.4 The results

Frequency band (MHz)	CH	F _L at 20dB BW (MHz)	F _H at 20dB BW (MHz)	F _L at 99% BW (MHz)	F _H at 99% BW (MHz)	20dB BW (MHz)	99% BW (MHz)
24000 ~ 24250	L	24101.53	24102.45	24101.55	24102.39	0.92	0.84
	H	24234.23	24235.13	24234.30	24235.10	0.90	0.80
Limit		F _L > 24000	F _H < 24250	F _L > 24000	F _H < 24250	/	/
Result		Complied					



TEST REPORT



5 Antenna requirement

Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

Result:

EUT uses permanently attached antenna to the intentional radiator, so it can comply with the provisions of this section.

***** END *****