Prüfbericht-Nr.: *Test report no.*:	**CN26ZOGQ 001**	**Auftrags-Nr.:** *Order no.*:	P02031184	*Seite 1 von 18* *Page 1 of 18*
Kunden-Referenz-Nr.: *Client reference no.*:	N/A	**Auftragsdatum:** *Order date:*	2026-03-25	
Auftraggeber: *Client*:	Hornady Manufacturing Company 3625 Old Potash Hwy, Grand Island, NE 68803			
Prüfgegenstand: *Test item*:	Hornady VEXIS™ Night Guard			
Bezeichnung / Typ-Nr.: *Identification / Type no.*:	98235			
Auftrags-Inhalt: *Order content*:	Test Report			
Prüfgrundlage: *Test specification*:	CFR Title 47 FCC Part 15: Subpart C Section 15.245 RSS-210 Issue 11 J une 2024 RSS-Gen Issue 5 February 2021			

Wareneingangsdatum: *Date of sample receipt*:	2026-03-25	Please refer to Photo Document
Prüfmuster-Nr.: *Test sample no:*	A004231527-001~003	
Prüfzeitraum: *Testing period*:	2026-03-27 - 2026-04-16	
Ort der Prüfung: *Place of testing*:	Refer to clause 2.1	
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Shenzhen) Co., Ltd.	
Prüfergebnis*: *Test result**:	Pass	

geprüft von: tested by:	x Jonathan Li Signed by: Jonathan Li	**genehmigt von:** *authorized by*:	x Bell Hu Signed by: Bell Hu
Datum: *Date:* 2026-05-12		**Ausstellungsdatum:** *Issue date:* 2026-05-12	
Stellung / Position:	Sachverständige(r)/Expert	**Stellung** / Position:	Sachverständige(r)/Expert

Sonstiges / *Other*: FCC ID: 2AFJZ-98235
IC: 35324-98235, HVIN: 98235

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery*: Prüfmuster vollständig und unbeschädigt *Test item complete and undamaged*

* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* *Legend:*	*P(ass) = passed a.m. test specification(s)*	*F(ail) = failed a.m. test specification(s)*	*N/A = not applicable*	*N/T = not tested*

Prüfbericht-Nr.: CN26ZOGQ 001
Test report no.:

Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. *The equipment used during the specifSied testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.*
2	Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben. Informationen zur Verifizierung der Authentizität unserer Dokumente erhalten Sie auf folgender Webseite: go.tuv.com/digital-signature *As contractually agreed, this document has been signed digitally only. TUV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TUV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. For information on verifying the authenticity of our documents, please visit the following website: go.tuv.com/digital-signature*
3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted under the respective test clause in the report.* *Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.*
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. *The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the “Zero Guard Band Rule” and “Simple Acceptance” in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.*

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 FIELD STRENGTH OF FUNDAMENTAL AND HARMONICS
RESULT: Pass

5.1.3 20DB AND 99% BANDWIDTH
RESULT: Pass

5.1.4 BAND EDGE
RESULT: Pass

Table of Contents

1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

1.TÜV Rheinland (Shenzhen) Co., Ltd.
2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China

FCC Accreditation Designation No.: CN1260

ISED wireless device testing laboratory: 25069

2. Shenzhen PSI Testing Co., Ltd.

1-2F, Building 5, Yudafu Industrial Park, No.10, Xingye West Road, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104

Registration number: CNAS L19010

A2LA CAB identifier: CN0158

TÜV Rheinland (Shenzhen) Co., Ltd. Performed radiated emission test and subcontract AC Conducted emission test to Shenzhen PSI Testing Co., Ltd. And this test at this site have been conducted under the supervision of a TÜV Rheinland engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
Wireless Connectivity Tester	R&S	CMW270	101375	22.09.2026
Signal Analyzer	R&S	FSV 40	101441	22.09.2026
Vector Signal Generator	R&S	SMBV100A	263301	29.10.2026
Signal Generator	R&S	SMB100A	115186	22.09.2026
OSP	R&S	OSP 150	101017	29.10.2026
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	29.10.2026
Power Sensor	R&S	NRP-Z81	105677	22.09.2026
Unwanted Emission Testing (TS9975)				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
EMI Test Receiver	R&S	ESR 7	102021	21.09.2026
Signal Analyzer	R&S	FSV 40	101439	21.09.2026
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	21.09.2026
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	21.09.2026
Amplifier	R&S	SCU-18F	180070	21.09.2026

Amplifier	R&S	SCU40A	100475	21.09.2026
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	27.09.2026
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	27.09.2026
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.09.2026
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	27.09.2026
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	13.09.2027

For Power Line Conducted Emission Test Equipment（PSI）

Item	Equipment	Manufacturer	Model No.	Serial No.	Firmware Version	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde&Schwarz	ESCI 7	101032/003	4.42 SP3	2025.12.18	1 Year
2.	L.I.S.N.	Rohde&Schwarz	ENV 216	102282	/	2025.12.18	1 Year
3.	L.I.S.N.	RFT	NNB111	13835240	/	2025.12.18	1 Year

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basics using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 3.70 dB / ± 3.30 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at 2-3F, 101 & 102, No.2, Nuclear Power Industrial Park, Fuming Community, Fucheng Street, Longhua District, Shenzhen 518000, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Hornady VEXIS™ Night Guard, which supports 10.5-10.55GHz wireless technologies.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Hornady VEXIS™ Night Guard
Type Designation:	98235
FCC ID:	2AFJZ-98235
IC:	35324-98235
HVIN:	98235
Operating Voltage:	12VDC 2.0A or 2x9V batteries
Technical Specification of 10.5-10.55 GHz	
Frequency Range:	10.5-10.55GHz
Type of Modulation:	CW
Channel Number:	3
Antenna Type:	Integral Antenna
Antenna Gain:	5.2dBi dBi (Provided by the Client)

Note: The correctness of all data provided by customer in the test report is ensured and responsible of the customer. Any misjudgment of the test results caused by the use of incorrect data provided by customer shall be borne by the customer.

3.3 Independent Operation Modes

The basic operation modes are:

A. Transmitting mode
    1. Low channel
    2. Middle channel
    3. High channel

B. 10.5-10.55GHz operating

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- User Manual
- FCC/IC Label and Location Info

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020 and ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024

Table 4: Test environments

Environment Parameter	Values During Tests		
	Temperature	Voltage (Battery operated)	Relative Humidity
NTNV	25°C±2°C	2x9Vdc	Ambient

Table 5: Test channel and frequency

Mode	Test Channels (MHz)	Remark
Transmitting	L/M/H: 10.517GHz, 10.525GHz, 10.5425MHz	--

4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A
Portable Laptop	Lenovo	ThinkPad T480	10Q67059	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

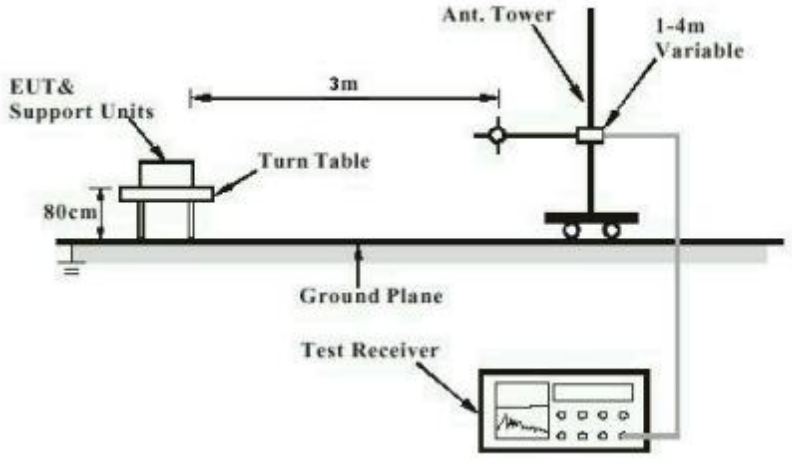


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

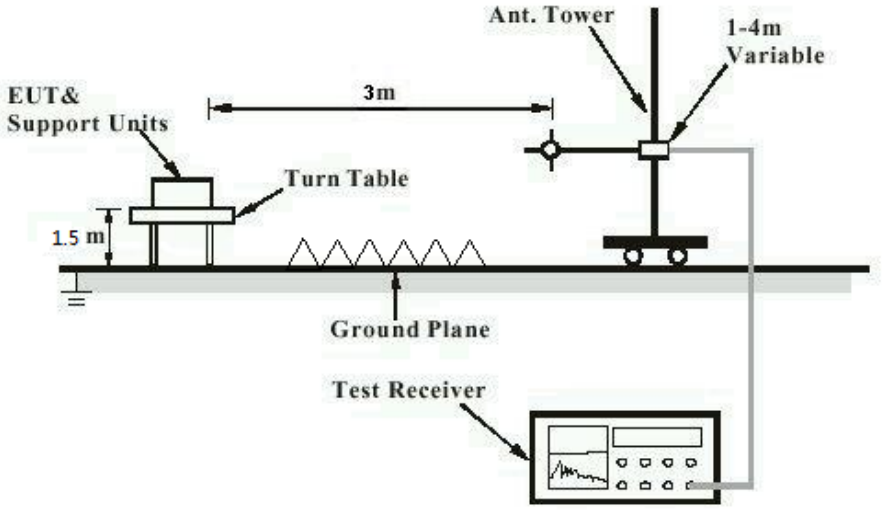


Diagram of Measurement Configuration for Mains Conduction Measurement

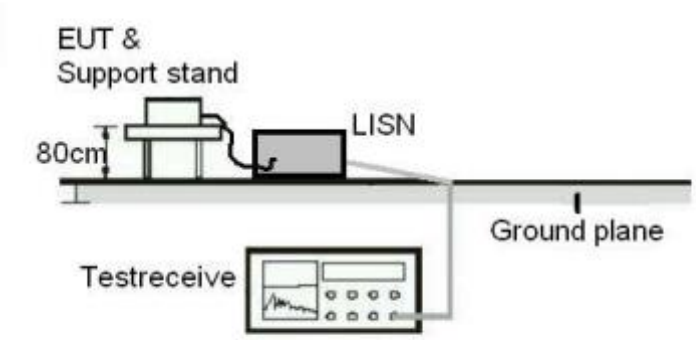
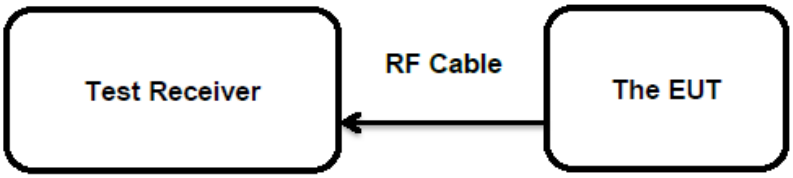


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT: **Pass**

Test Specification

Test standard : FCC Part 15.203
RSS-Gen Section 6.8

According to the manufacturer declared, the EUT has a integral antenna, permanent attachment and no consideration of replacement, refer to section 3.2 for details.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Field strength of fundamental and harmonics

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.245(b) RSS-210 Annex F
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	:	FCC Part 15.245(b) (1) & 15.209(a) RSS-210 Annex F RSS-Gen Section 8.9
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2026-03-27 - 2026-04-16
Input voltage	:	2x9V batteries
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst-case spurious emissions configuration of each mode were reported.

For the measurement records, refer to the appendix A.

5.1.3 Band Edge

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.245(b) (3) & 15.209 & 15.205 RSS-210 Annex F RSS-Gen Section 8.9 & 8.10
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Limits	:	FCC Part 15.245(b) & 15.209 & 15.205 RSS-Gen Table 5 & 7
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2026-03-27 - 2026-04-16
Input voltage	:	2x9V batteries
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.4 Conducted Emission on AC Mains

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.207(a) RSS-Gen Section 8
Basic standard	:	ANSI C63.10:2020, ANSI C63.10:2020+Cor. 1:2023+ C63.10a:2024
Frequency range	:	0.15 – 30MHz
Classification	:	Class B
Limits	:	FCC Part 15.207(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2026-03-18 - 2026-04-10
Input voltage	:	DC 12V from AC 120V adapter
Operation mode	:	B
Ambient temperature	:	Refer to test result
Relative humidity	:	Refer to test result
Atmospheric pressure	:	101 kPa

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

7 List of Tables

Appendix A: Test Results of 5.8GHz

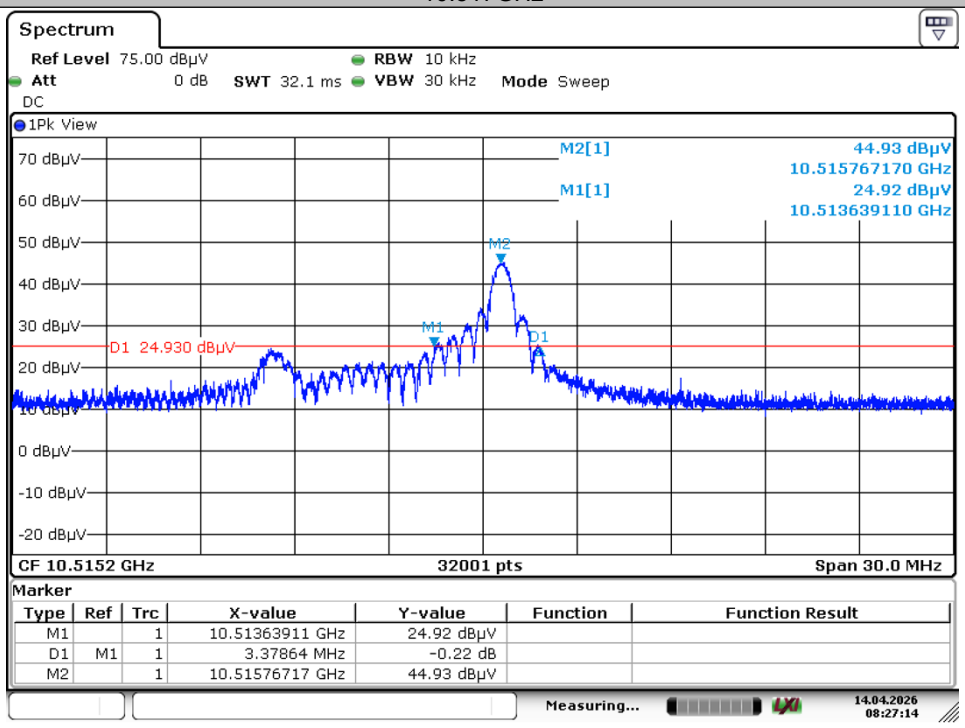
Appendix A.1: Test Results of 20dB Bandwidth

Test Result

TestMode	Channel	20dB Bandwidth [MHz]	Limit	Verdict
Transmitting	10.517GHz	3.38	Within 10.5-10.55GHz	PASS
	10.525GHz	2.85		PASS
	10.5425GHz	1.93		PASS

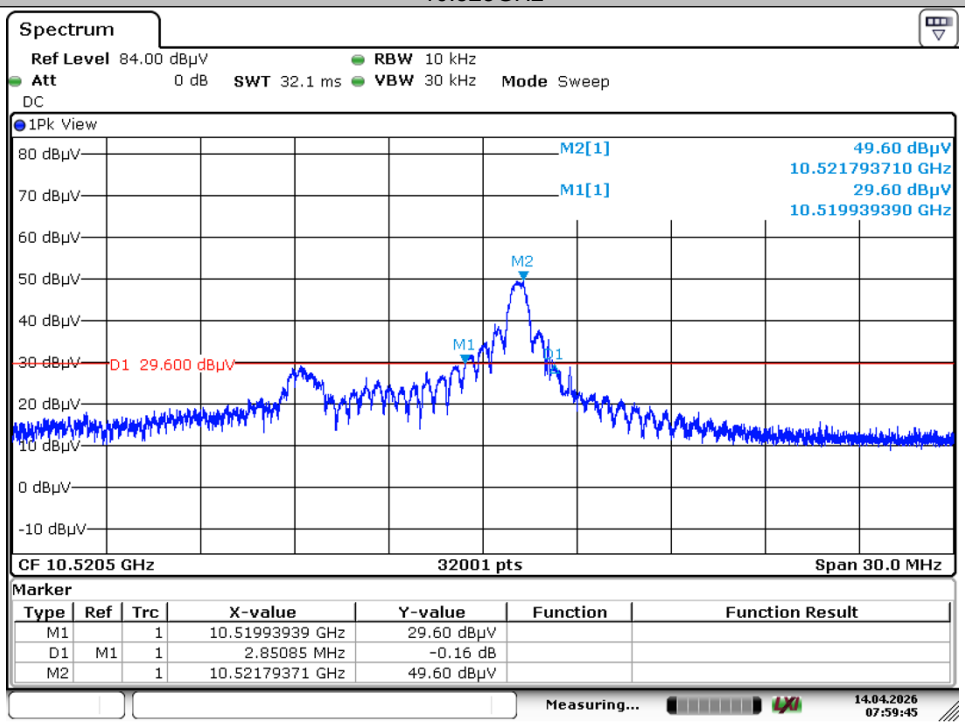
Test Graphs

10.517GHz



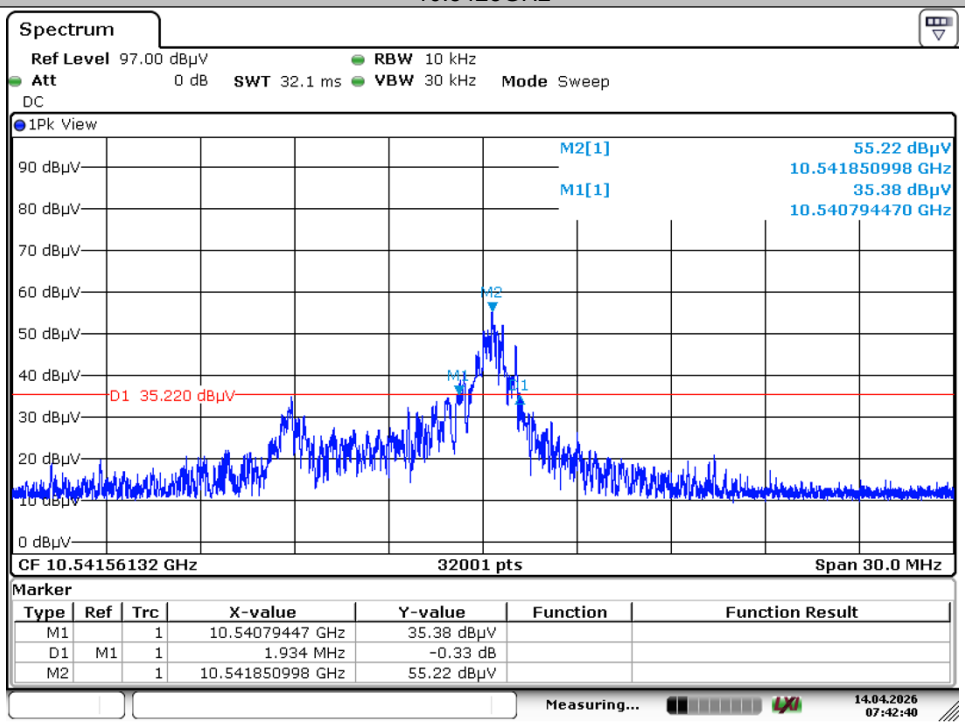
Date: 14.APR.2026 08:27:15

10.525GHz



Date: 14.APR.2026 07:59:46

10.5425GHz


Spectrum
Ref Level 97.00 dBµV
RBW 10 kHz
Att 0 dB
SWT 32.1 ms
VBW 30 kHz
Mode Sweep
DC
1Pk View
M2[1] 55.22 dBµV
10.541850998 GHz
M1[1] 35.38 dBµV
10.540794470 GHz
90 dBµV
80 dBµV
70 dBµV
60 dBµV
50 dBµV
40 dBµV
30 dBµV
20 dBµV
10 dBµV
0 dBµV
D1 35.220 dBµV
CF 10.54156132 GHz
32001 pts
Span 30.0 MHz
Marker
Type Ref Trc X-value Y-value Function Function Result
M1 1 10.54079447 GHz 35.38 dBµV
D1 M1 1 1.934 MHz -0.33 dB
M2 1 10.541850998 GHz 55.22 dBµV
Measuring...
14.04.2026
07:42:40
Date: 14.APR.2026 07:42:40

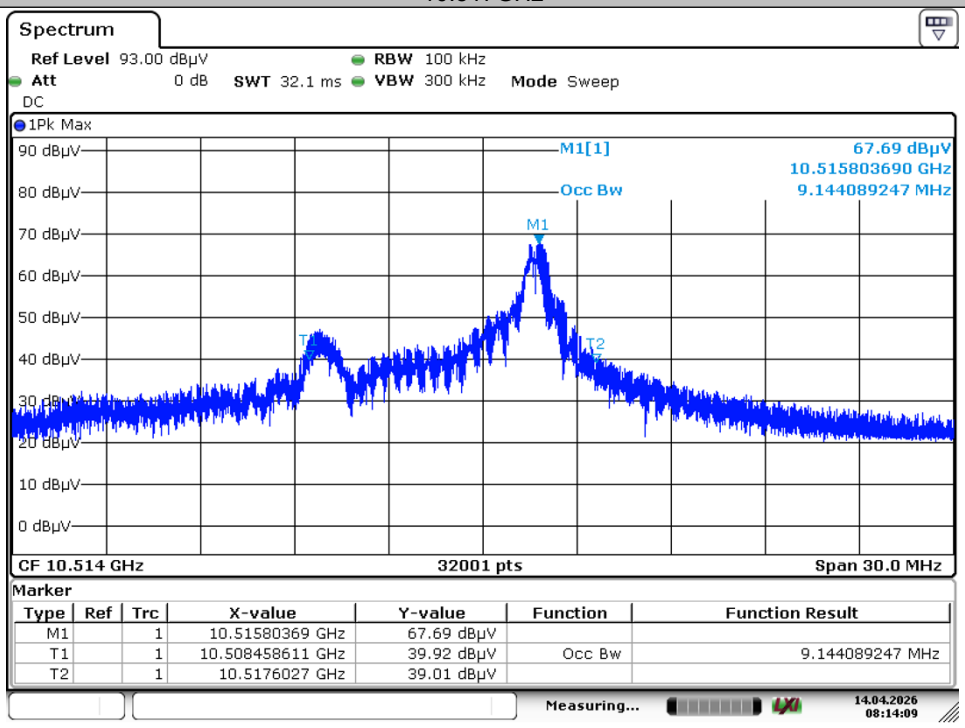
Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Channel	99% Bandwidth [MHz]	Limit[MHz]	Verdict
Transmitting	10.517GHz	9.15	Within 10.5-10.55GHz	PASS
	10.525GHz	9.47		PASS
	10.5425GHz	8.65		PASS

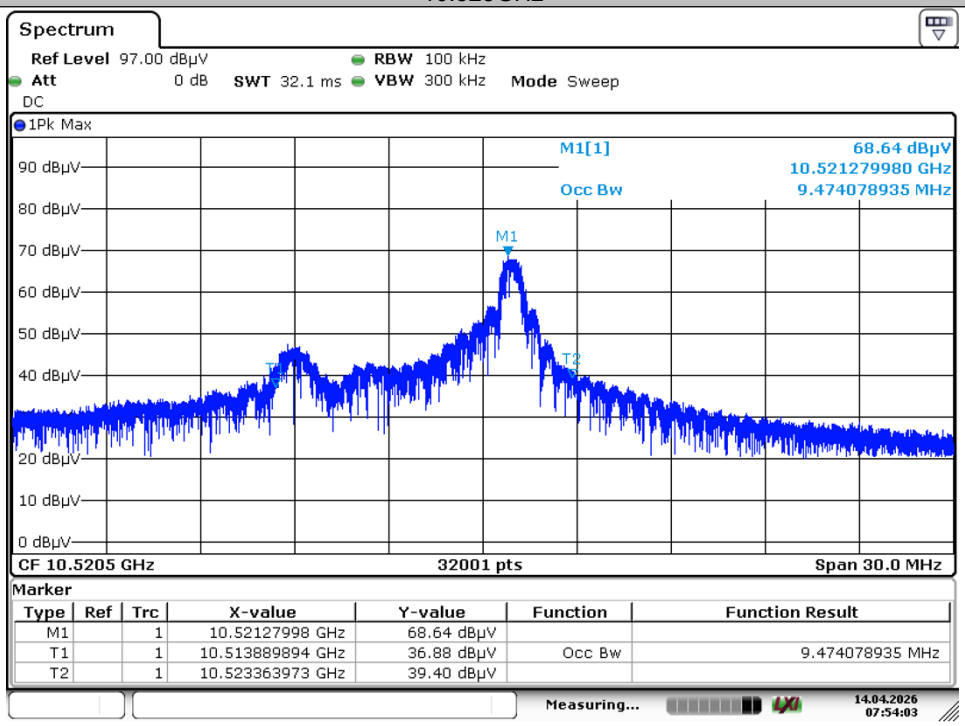
Test Graphs

10.517GHz



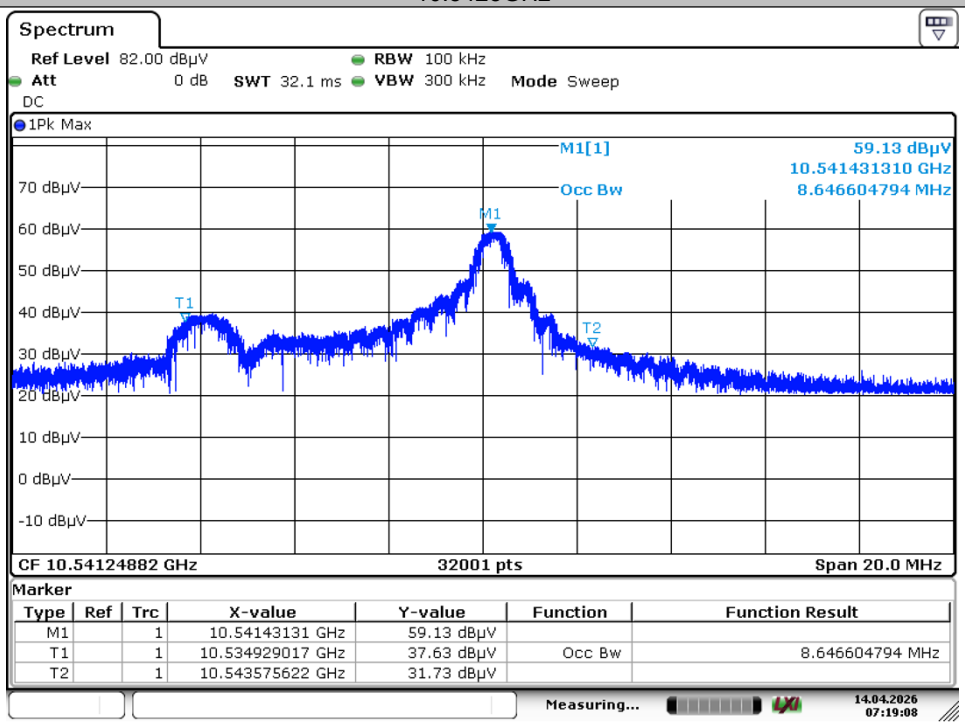
Date: 14.APR.2026 08:14:10

10.525GHz



Date: 14.APR.2026 07:54:04

10.5425GHz



Date: 14.APR.2026 07:19:08

Appendix A.3: Test Results of Radiated Spurious Emissions

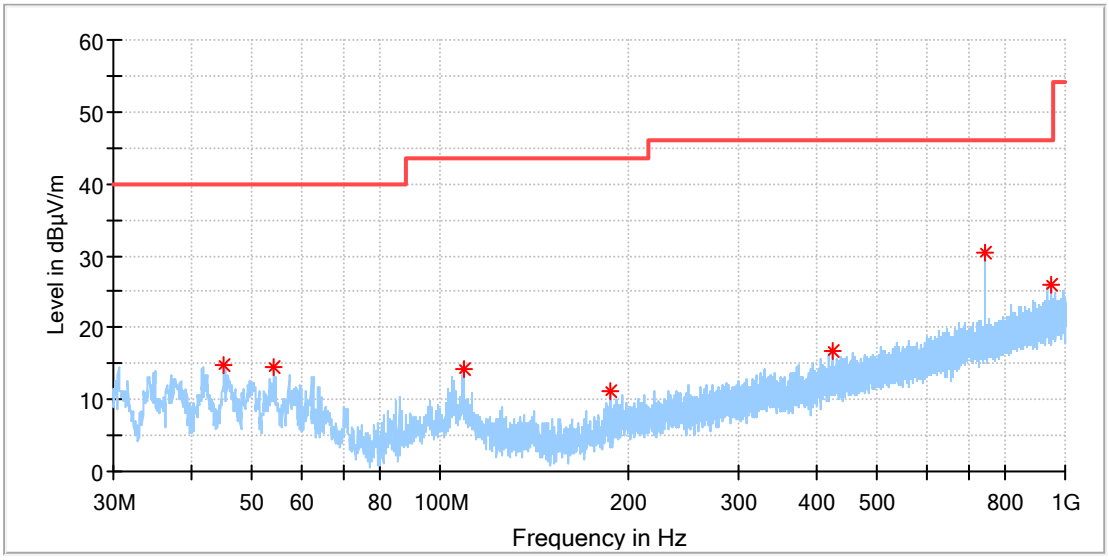
Note:
1) This testing was carried out on different modulations, but only the worst case was presented in this report.
2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 40GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 40GHz were reported.

30-1000MHz(worst case):

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.142778	14.81	40.00	25.19	100.0	H	153.0	-18.9
54.250000	14.39	40.00	25.61	100.0	H	131.0	-18.5
108.839444	14.24	43.50	29.26	100.0	H	12.0	-19.1
186.978333	11.10	43.50	32.40	100.0	H	350.0	-19.9
423.820000	16.79	46.00	29.21	100.0	H	69.0	-13.2
742.518889	30.42	46.00	15.58	100.0	H	304.0	-7.2
948.428333	25.94	46.00	20.06	100.0	H	131.0	-4.3

Final_Result

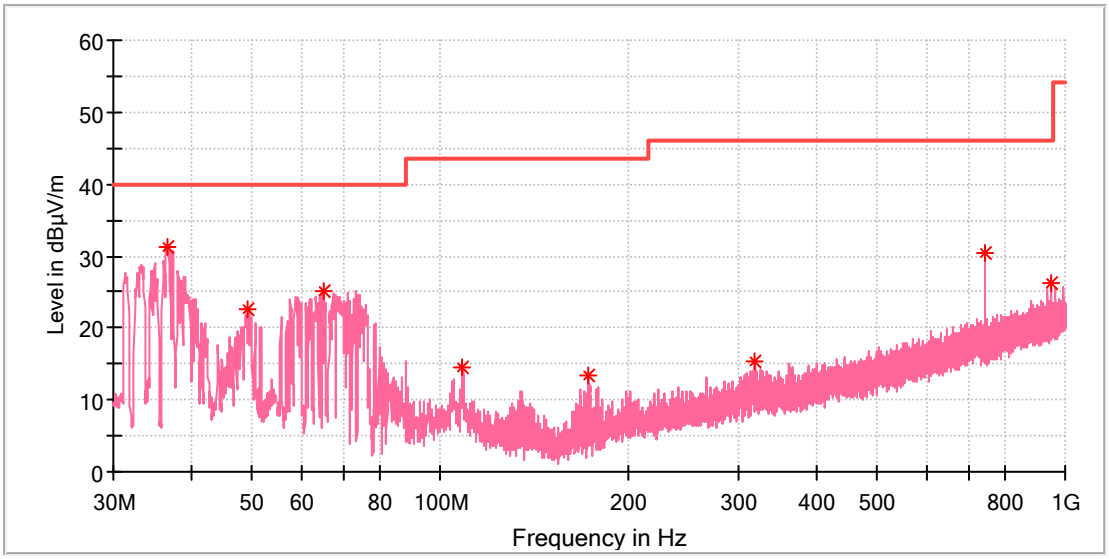
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)

---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
36.682222	31.17	40.00	8.83	100.0	V	72.0	-21.3
49.346111	22.62	40.00	17.38	100.0	V	288.0	-18.4
64.920000	25.17	40.00	14.83	100.0	V	55.0	-20.2
108.785556	14.43	43.50	29.07	100.0	V	227.0	-19.1
172.105000	13.30	43.50	30.20	100.0	V	55.0	-21.2
319.545000	15.36	46.00	30.64	100.0	V	0.0	-15.7
742.518889	30.33	46.00	15.67	100.0	V	80.0	-7.2
948.428333	26.12	46.00	19.88	100.0	V	221.0	-4.3

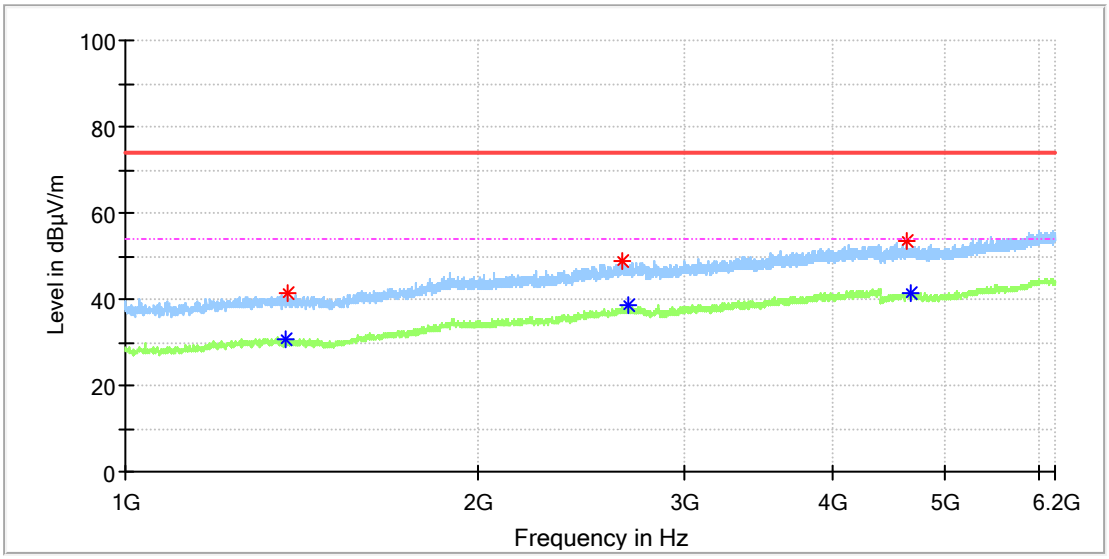
Final_Result

Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1368.000000	---	30.79	54.00	23.21	150.0	H	79.0	3.1
1373.000000	41.46	---	74.00	32.54	150.0	H	304.0	3.0
2650.000000	48.87	---	74.00	25.13	150.0	H	55.0	10.1
2681.500000	---	38.58	54.00	15.42	150.0	H	353.0	10.1
4641.500000	53.44	---	74.00	20.56	150.0	H	135.0	13.5
4679.500000	---	41.28	54.00	12.72	150.0	H	48.0	13.5

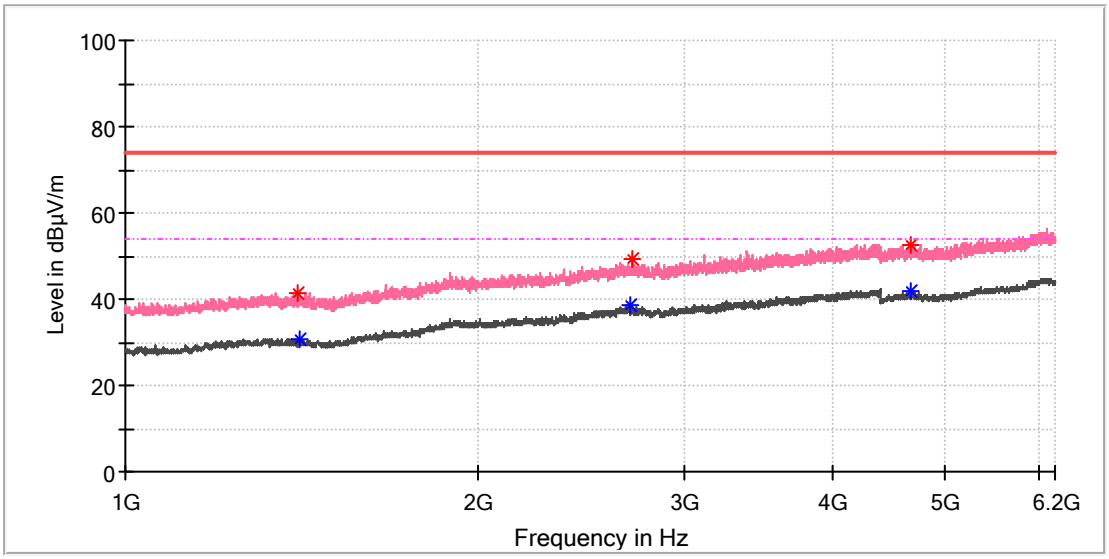
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1403.500000	41.60	---	74.00	32.40	150.0	V	0.0	3.0
1408.500000	---	30.91	54.00	23.09	150.0	V	266.0	3.0
2688.500000	---	38.47	54.00	15.53	150.0	V	296.0	10.1
2702.000000	49.49	---	74.00	24.51	150.0	V	171.0	9.9
4674.500000	52.60	---	74.00	21.40	150.0	V	139.0	13.5
4678.500000	---	41.71	54.00	12.29	150.0	V	158.0	13.5

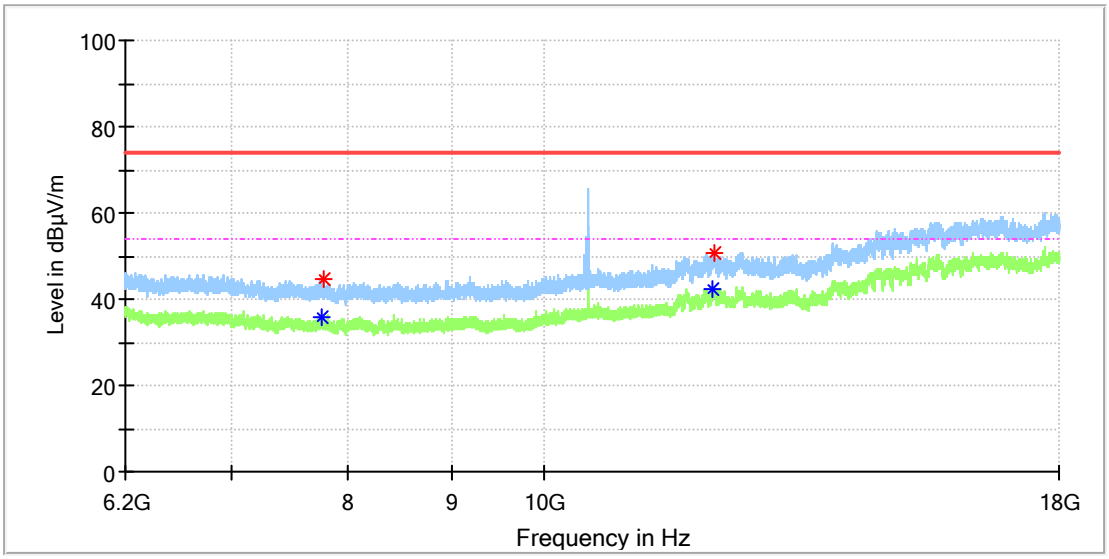
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7760.058333	---	35.90	54.00	18.10	150.0	H	0.0	8.8
7781.200000	44.84	---	74.00	29.16	150.0	H	300.0	8.9
12118.683333	---	42.55	54.00	11.45	150.0	H	239.0	15.9
12131.958333	50.65	---	74.00	23.35	150.0	H	191.0	16.3

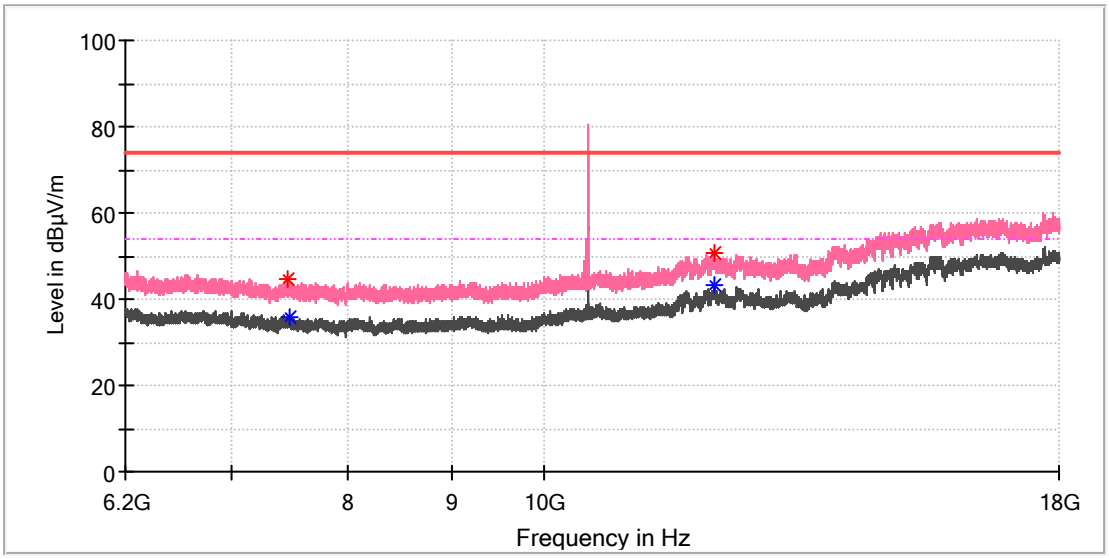
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7465.550000	44.48	---	74.00	29.52	150.0	V	0.0	8.6
7476.366667	---	36.01	54.00	17.99	150.0	V	0.0	8.6
12150.150000	---	43.44	54.00	10.56	150.0	V	196.0	16.7
12153.591667	50.88	---	74.00	23.12	150.0	V	279.0	16.5

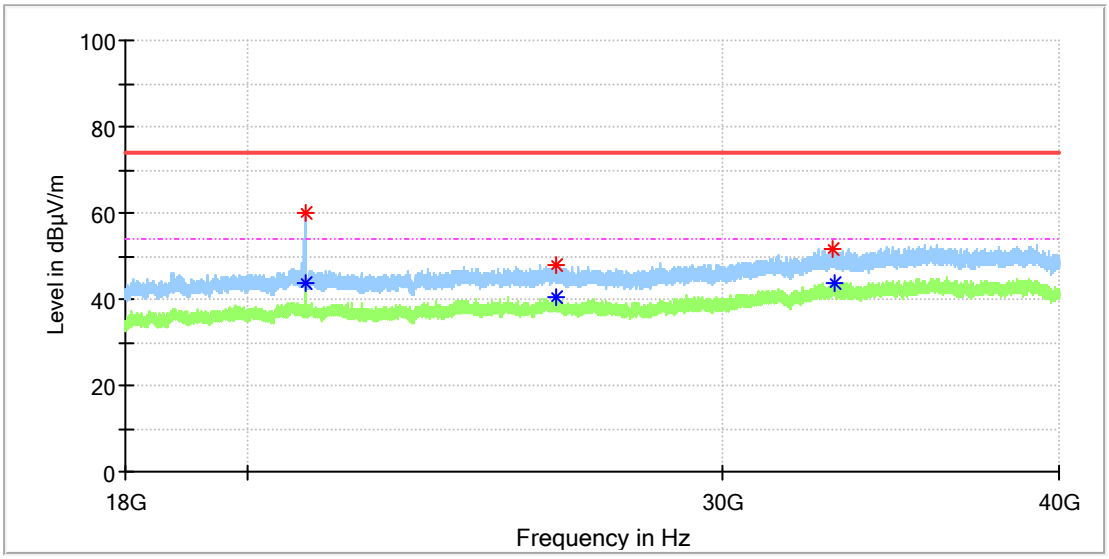
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20991.312500	59.91	---	74.00	14.09	150.0	H	159.0	-11.0
20991.312500	---	43.80	54.00	10.20	150.0	H	159.0	-11.0
26003.187500	---	40.36	54.00	13.64	150.0	H	30.0	-8.3
26010.750000	47.85	---	74.00	26.15	150.0	H	167.0	-8.3
32948.312500	51.74	---	74.00	22.26	150.0	H	356.0	-7.7
33001.937500	---	43.69	54.00	10.31	150.0	H	236.0	-7.7

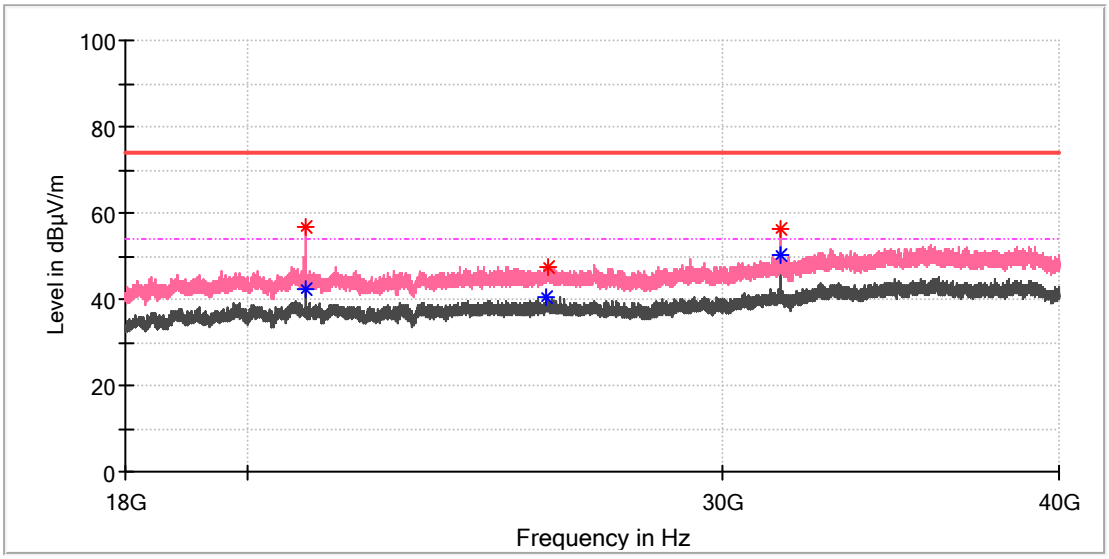
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
20995.437500	56.91	---	74.00	17.09	150.0	V	188.0	-11.0
20995.437500	---	42.48	54.00	11.52	150.0	V	188.0	-11.0
25790.062500	---	40.63	54.00	13.37	150.0	V	18.0	-8.3
25854.000000	47.44	---	74.00	26.56	150.0	V	200.0	-8.3
31511.437500	56.07	---	74.00	17.93	150.0	V	131.0	-8.6
31511.437500	---	50.39	54.00	3.61	150.0	V	131.0	-8.6

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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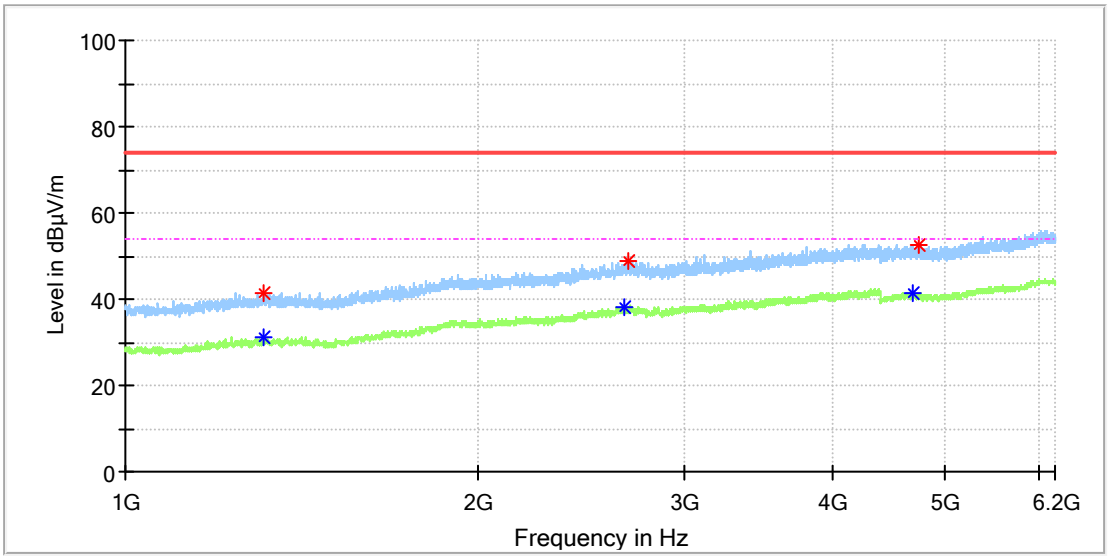
Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1311.000000	---	31.24	54.00	22.76	150.0	H	237.0	2.8
1312.000000	41.28	---	74.00	32.72	150.0	H	324.0	2.8
2660.500000	---	38.34	54.00	15.66	150.0	H	355.0	10.2
2682.000000	48.81	---	74.00	25.19	150.0	H	261.0	10.1
4693.500000	---	41.26	54.00	12.74	150.0	H	295.0	13.5
4736.500000	52.35	---	74.00	21.65	150.0	H	217.0	13.4

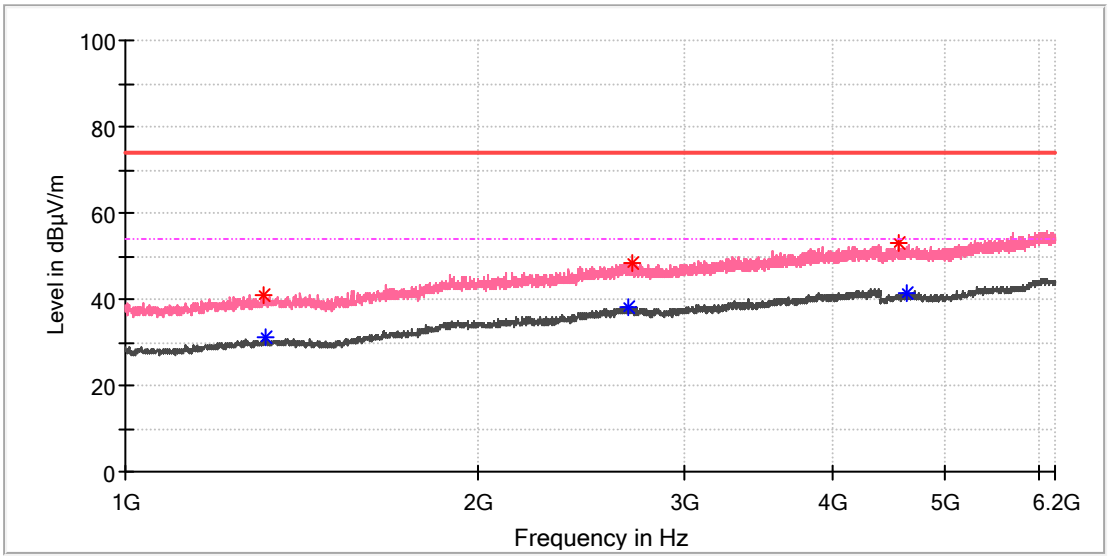
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1312.500000	41.01	---	74.00	32.99	150.0	V	77.0	2.8
1317.500000	---	30.98	54.00	23.02	150.0	V	334.0	2.9
2687.500000	---	38.25	54.00	15.75	150.0	V	341.0	10.1
2702.000000	48.42	---	74.00	25.58	150.0	V	291.0	9.9
4559.500000	53.11	---	74.00	20.89	150.0	V	37.0	13.5
4635.500000	---	41.46	54.00	12.54	150.0	V	61.0	13.5

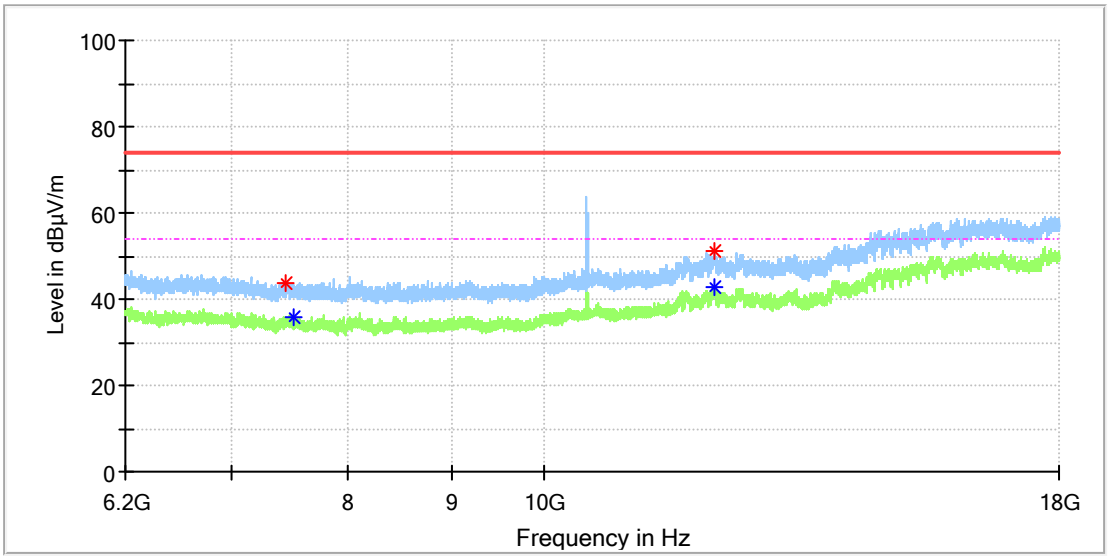
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7448.341667	43.95	---	74.00	30.05	150.0	H	347.0	8.5
7507.833333	---	35.99	54.00	18.01	150.0	H	6.0	8.7
12141.300000	---	42.61	54.00	11.39	150.0	H	305.0	16.5
12147.691667	51.39	---	74.00	22.61	150.0	H	0.0	16.7

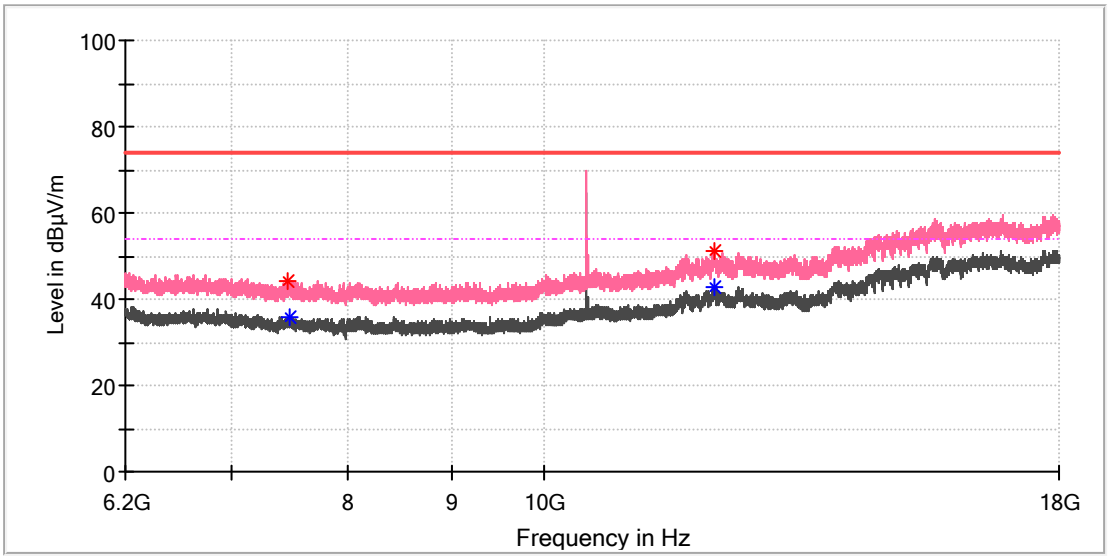
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7459.158333	44.38	---	74.00	29.62	150.0	V	311.0	8.5
7486.691667	---	35.83	54.00	18.17	150.0	V	278.0	8.7
12150.150000	50.93	---	74.00	23.07	150.0	V	195.0	16.7
12150.150000	---	42.71	54.00	11.29	150.0	V	195.0	16.7

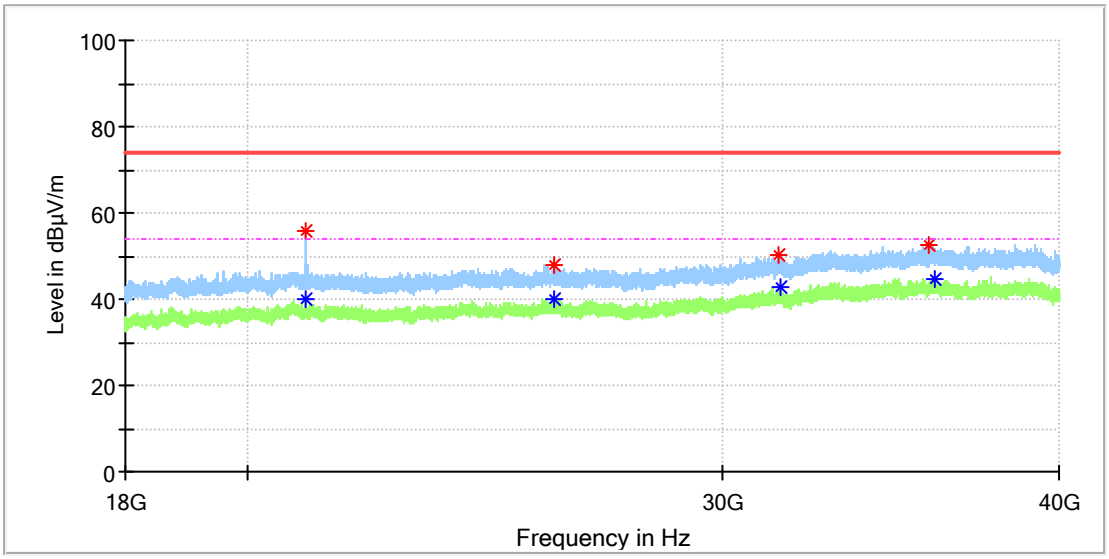
Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21013.312500	---	40.16	54.00	13.84	150.0	H	112.0	-10.9
21013.312500	55.72	---	74.00	18.28	150.0	H	112.0	-10.9
25965.375000	48.14	---	74.00	25.86	150.0	H	38.0	-8.3
25972.937500	---	39.88	54.00	14.12	150.0	H	317.0	-8.3
31445.437500	50.26	---	74.00	23.74	150.0	H	227.0	-8.6
31548.562500	---	42.64	54.00	11.36	150.0	H	135.0	-8.6
35809.687500	52.40	---	74.00	21.60	150.0	H	170.0	-6.6
35958.875000	---	44.66	54.00	9.34	150.0	H	1.0	-6.7

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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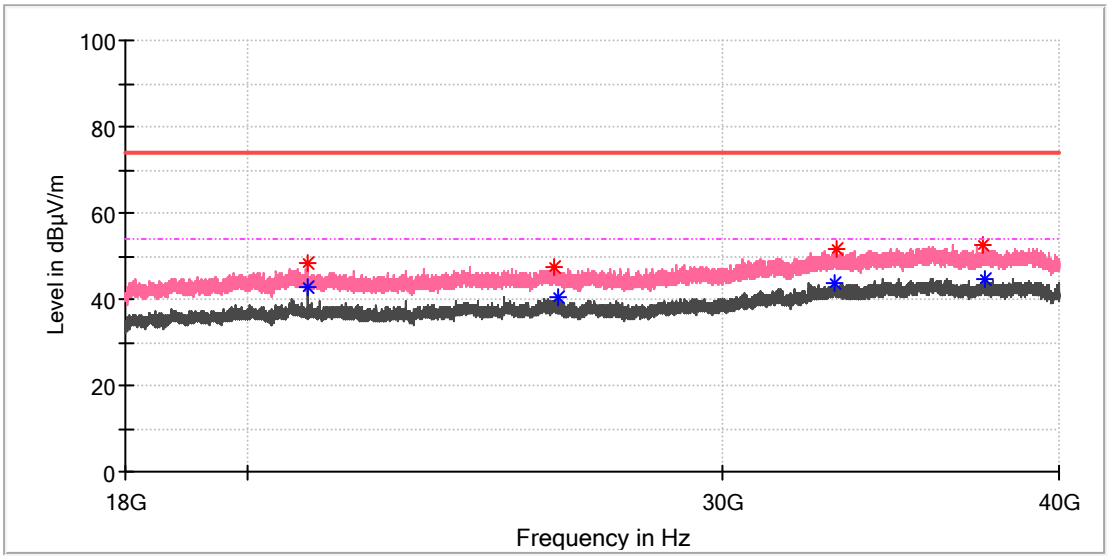
Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
21027.750000	48.44	---	74.00	25.56	150.0	V	175.0	-10.8
21031.187500	---	42.80	54.00	11.20	150.0	V	275.0	-10.8
25987.375000	47.35	---	74.00	26.65	150.0	V	152.0	-8.3
26071.937500	---	40.26	54.00	13.74	150.0	V	293.0	-8.4
33030.812500	---	43.66	54.00	10.34	150.0	V	31.0	-7.7
33069.312500	51.55	---	74.00	22.45	150.0	V	43.0	-7.7
37487.187500	52.35	---	74.00	21.65	150.0	V	304.0	-6.3
37516.750000	---	44.46	54.00	9.54	150.0	V	227.0	-6.2

Final_Result

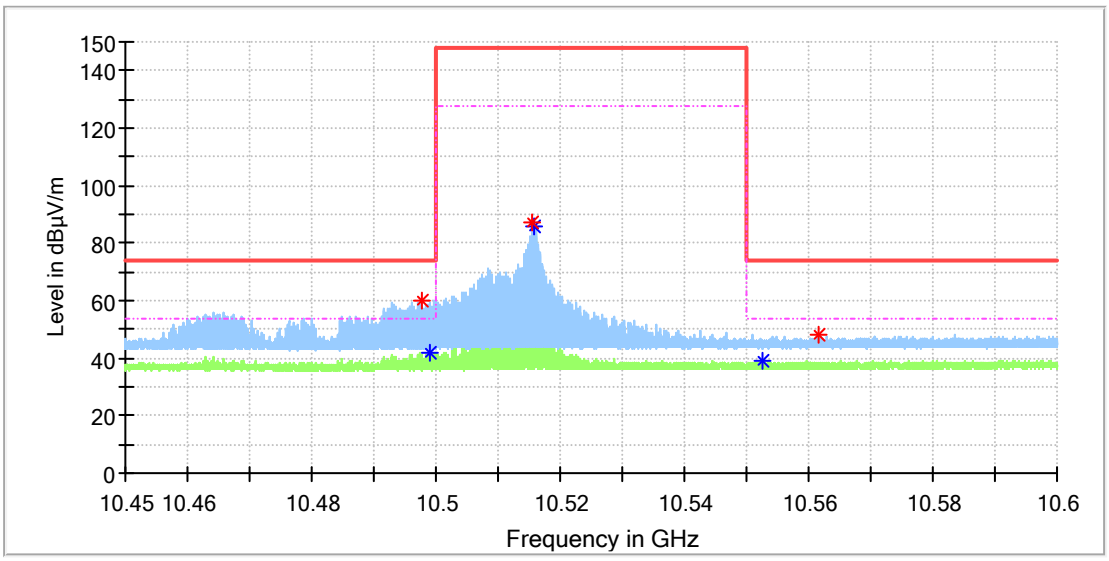
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---		---	---

Appendix A.4: Test Results of Radiated Emissions in Restricted Bands

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10497.593750	59.98	---	74.00	14.02	150.0	H	172.0	12.0
10499.012500	---	42.13	54.00	11.87	150.0	H	172.0	12.0
10515.456250	87.31	---	148.00	60.69	150.0	H	170.0	12.0
10515.818750	---	86.16	128.00	41.84	150.0	H	174.0	12.0
10552.493750	---	39.01	54.00	14.99	150.0	H	322.0	12.0
10561.543750	48.07	---	74.00	25.93	150.0	H	50.0	12.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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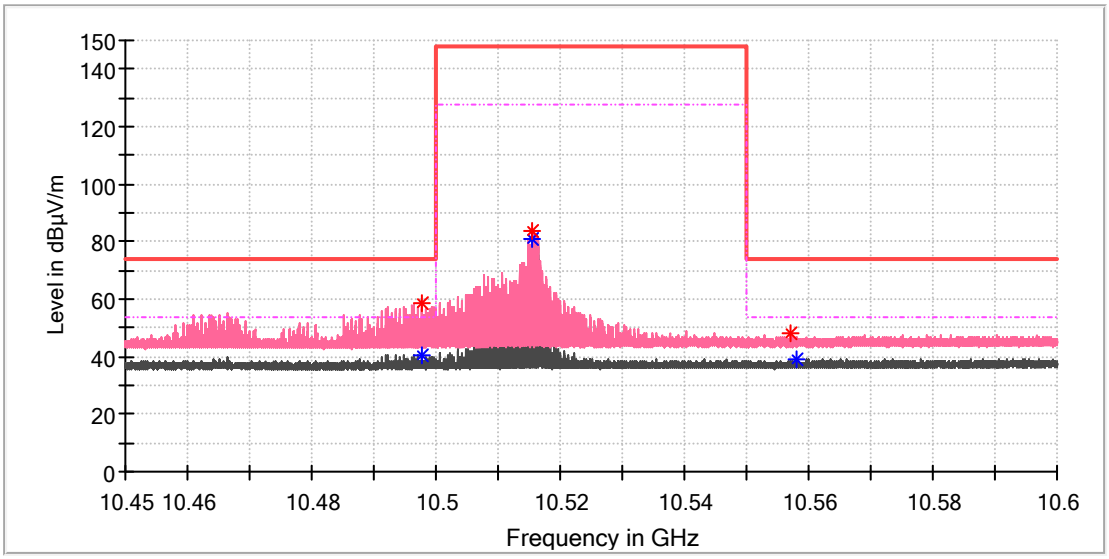
Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.517GHz
Order No/Sample No:	A004240619-002
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10497.843750	58.56	---	74.00	15.44	150.0	V	129.0	12.0
10497.875000	---	40.41	54.00	13.59	150.0	V	127.0	12.0
10515.431250	---	80.87	128.00	47.13	150.0	V	125.0	12.0
10515.431250	83.58	---	148.00	64.42	150.0	V	125.0	12.0
10557.006250	47.98	---	74.00	26.02	150.0	V	187.0	12.0
10558.200000	---	39.25	54.00	14.75	150.0	V	136.0	12.0

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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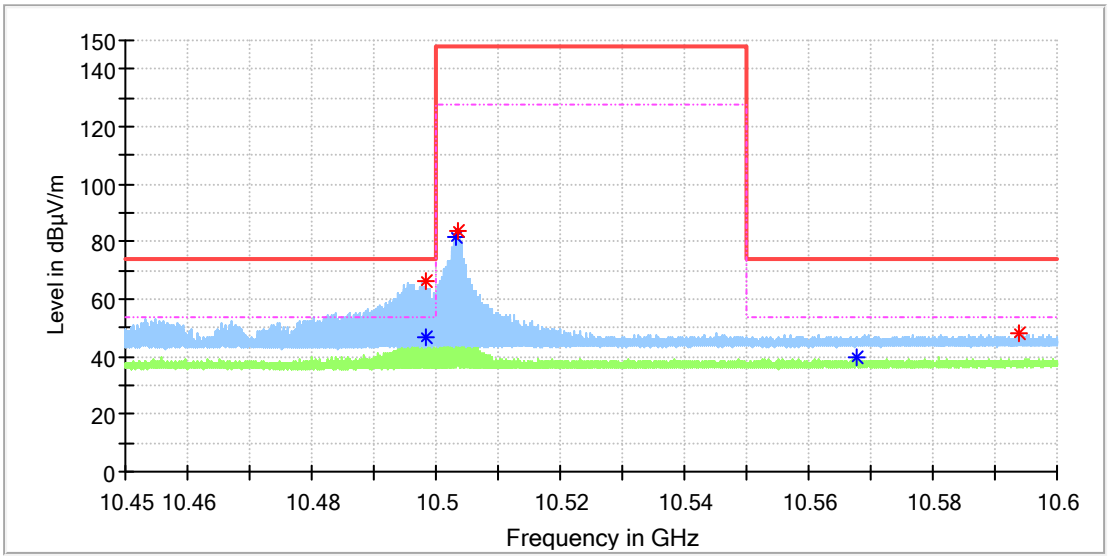
Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10498.275000	---	46.86	54.00	7.14	150.0	H	234.0	12.0
10498.275000	66.13	---	74.00	7.87	150.0	H	234.0	12.0
10503.275000	---	81.65	128.00	46.35	150.0	H	229.0	12.0
10503.462500	83.54	---	148.00	64.46	150.0	H	232.0	12.0
10567.868750	---	39.53	54.00	14.47	150.0	H	257.0	12.0
10593.918750	48.42	---	74.00	25.58	150.0	H	102.0	12.1

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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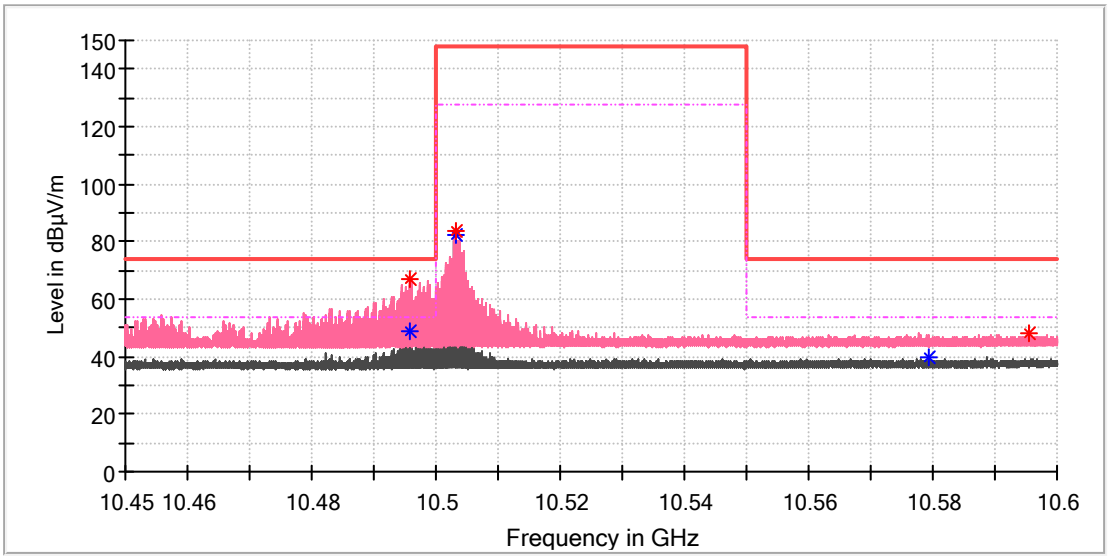
Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Model:	98235
Test Mode:	10.50GHz
Order No/Sample No:	A004240619-001
Test Voltage::	2x9V by Batteries
Remark:	Temp 23 Humi:53%
Test Standard:	FCC 15.245
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10495.887500	66.93	---	74.00	7.07	150.0	V	126.0	12.0
10495.887500	---	48.74	54.00	5.26	150.0	V	126.0	12.0
10503.193750	---	82.07	128.00	45.93	150.0	V	129.0	12.0
10503.193750	83.41	---	148.00	64.59	150.0	V	129.0	12.0
10579.412500	---	39.43	54.00	14.57	150.0	V	113.0	12.0
10595.362500	48.15	---	74.00	25.85	150.0	V	85.0	12.1

Final_Result

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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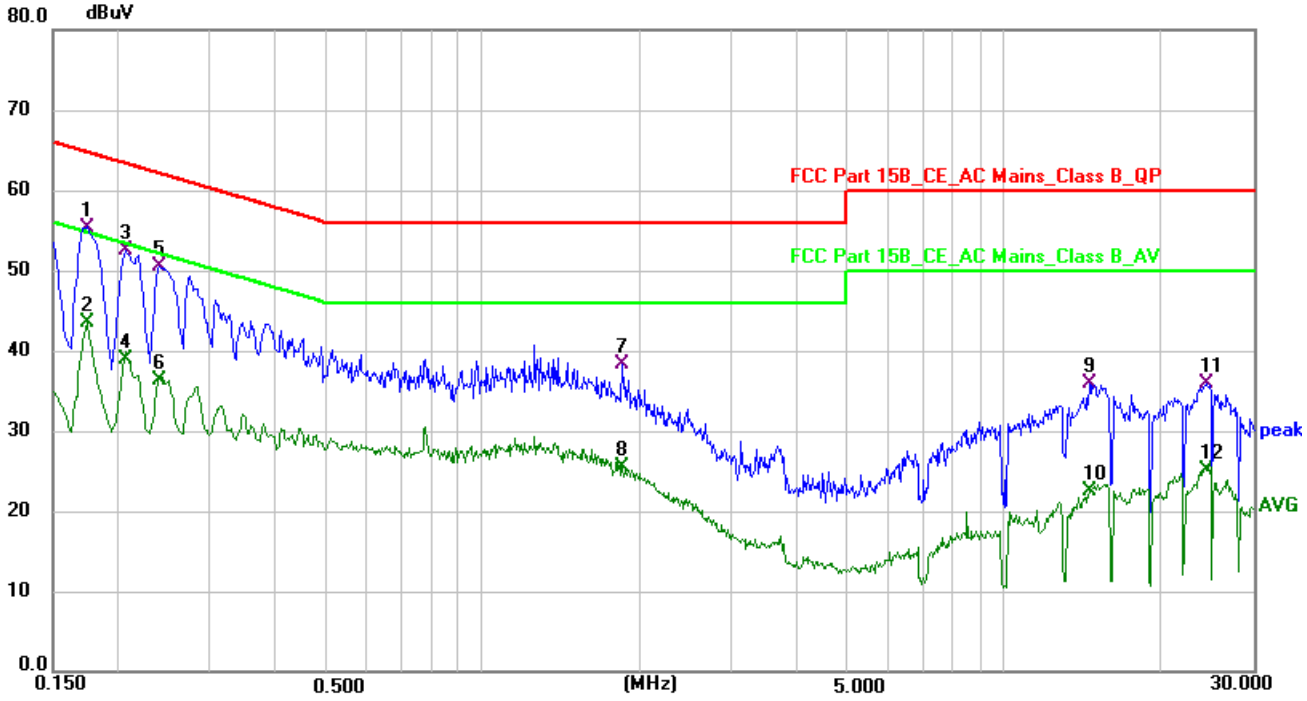
Appendix A.5: Test Results of Conduted Emission

Test Report

EUT Information

EUT Name:	Hornady VEXIS™ Night Guard
Order Number:	169856891
Model:	98235
Test Mode:	Powered by adapter+10.5-10.55GHz operating
Test Voltage:	AC 120V/ 60Hz
Test Standard:	FCC PART 15
Test By:/Review By:	Felix
Tem./Hum./Pressure:	24.0°C/51.1%/101kPa
Remark	Live

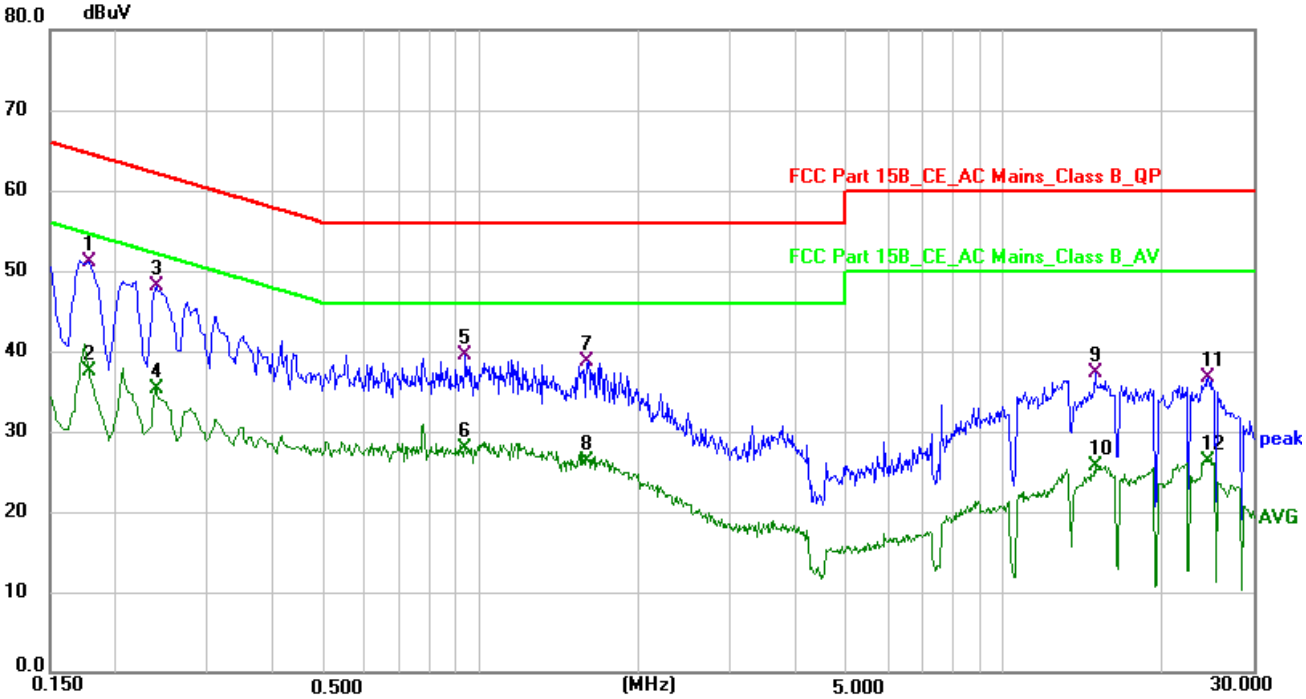


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1740	45.84	9.56	55.40	64.77	-9.37	QP	P	
2	0.1740	33.85	9.56	43.41	54.77	-11.36	AVG	P	
3	0.2060	43.18	9.40	52.58	63.37	-10.79	QP	P	
4	0.2060	29.58	9.40	38.98	53.37	-14.39	AVG	P	
5	0.2380	41.15	9.40	50.55	62.17	-11.62	QP	P	
6	0.2380	26.99	9.40	36.39	52.17	-15.78	AVG	P	
7	1.8500	28.46	9.88	38.34	56.00	-17.66	QP	P	
8	1.8500	15.63	9.88	25.51	46.00	-20.49	AVG	P	
9	14.5580	26.09	9.78	35.87	60.00	-24.13	QP	P	
10	14.5580	12.76	9.78	22.54	50.00	-27.46	AVG	P	
11	24.3140	26.34	9.60	35.94	60.00	-24.06	QP	P	
12	24.3140	15.44	9.60	25.04	50.00	-24.96	AVG	P	

Test Report

EUT Information

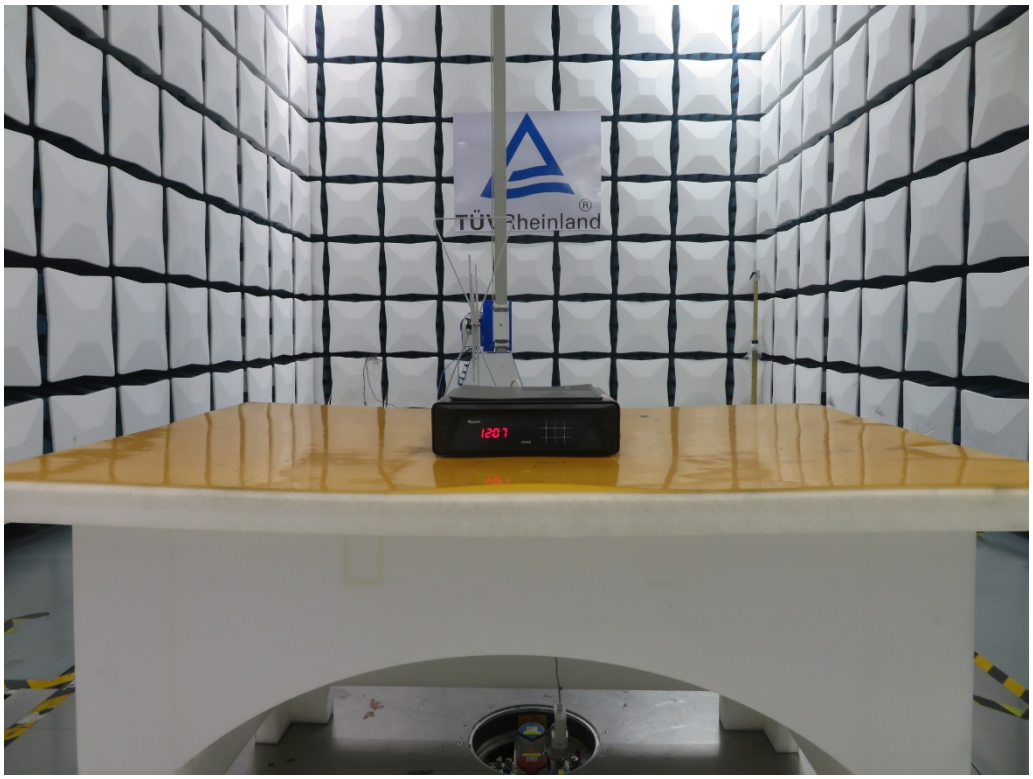
EUT Name:	Hornady VEXIS™ Night Guard
Order Number:	169856891
Model:	98235
Test Mode:	Powered by adapter+10.5-10.55GHz operating
Test Voltage:	AC 120V/ 60Hz
Test Standard:	FCC PART 15
Test By:/Review By:	Felix
Tem./Hum./Pressure:	24.0°C/51.1%/101kPa
Remark	Natural



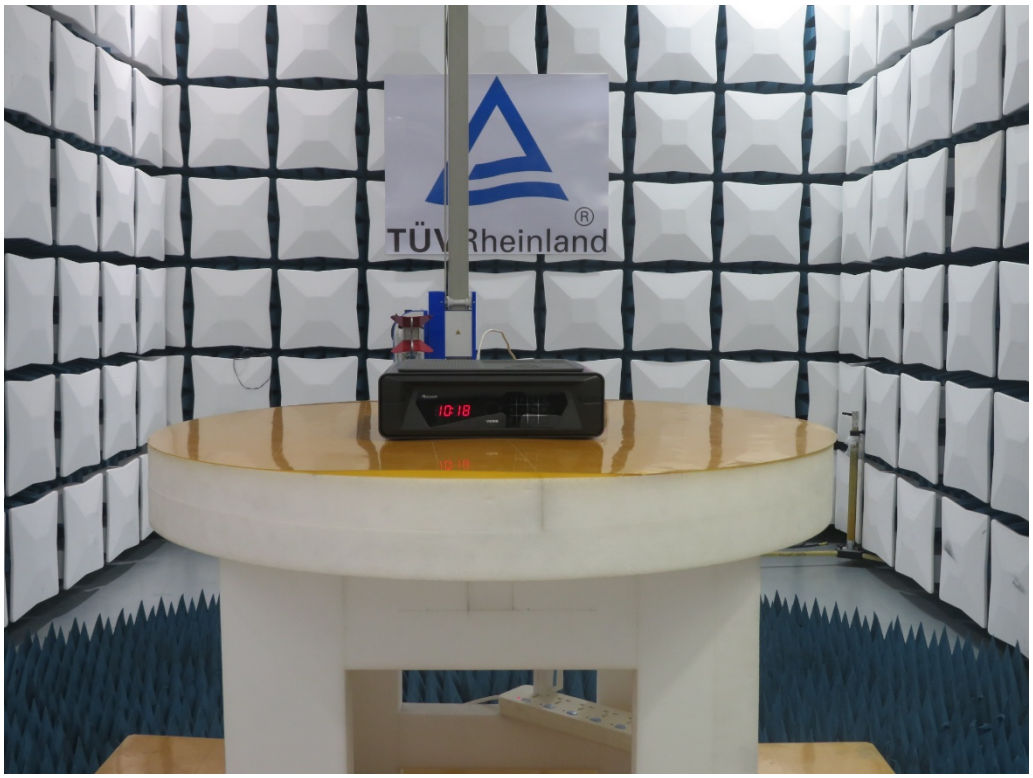
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1 *	0.1780	41.65	9.49	51.14	64.58	-13.44	QP	P	
2	0.1780	27.97	9.49	37.46	54.58	-17.12	AVG	P	
3	0.2380	38.66	9.40	48.06	62.17	-14.11	QP	P	
4	0.2380	25.83	9.40	35.23	52.17	-16.94	AVG	P	
5	0.9380	29.76	9.66	39.42	56.00	-16.58	QP	P	
6	0.9380	18.31	9.66	27.97	46.00	-18.03	AVG	P	
7	1.6019	29.30	9.48	38.78	56.00	-17.22	QP	P	
8	1.6019	16.91	9.48	26.39	46.00	-19.61	AVG	P	
9	14.9700	27.89	9.50	37.39	60.00	-22.61	QP	P	
10	14.9700	16.18	9.50	25.68	50.00	-24.32	AVG	P	
11	24.5580	26.92	9.76	36.68	60.00	-23.32	QP	P	
12	24.5580	16.46	9.76	26.22	50.00	-23.78	AVG	P	

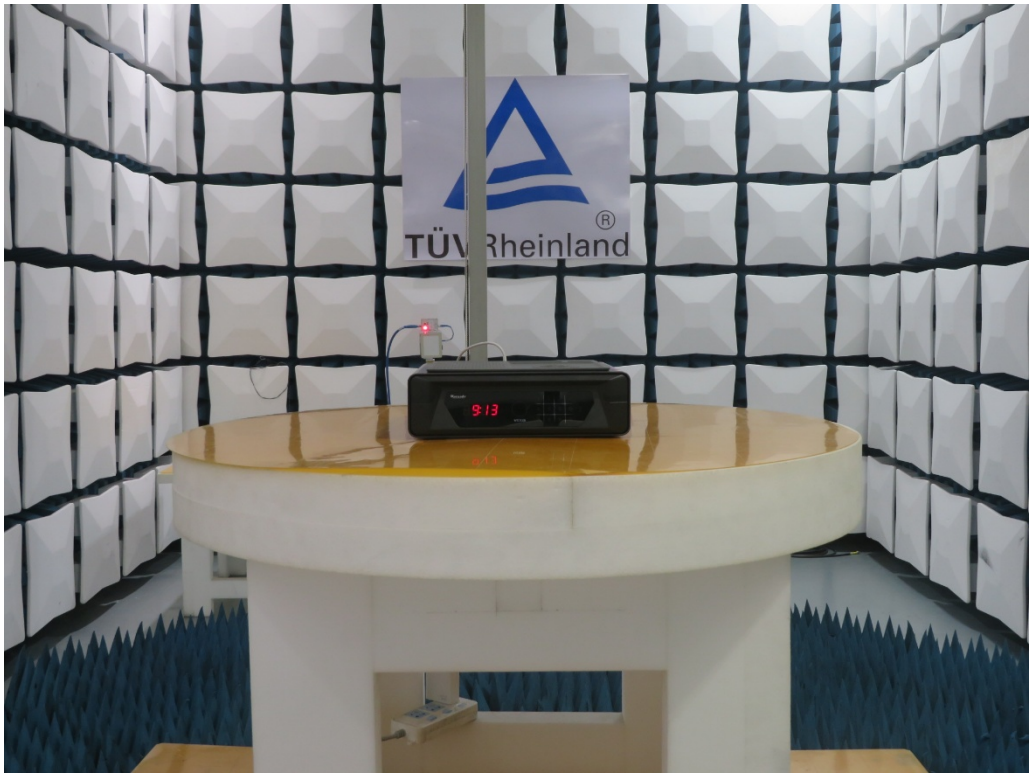
Appendix A: Photographs of the Test Set-Up

Photograph 1: Set-up photo for Radiated Spurious Emission, Below 1GHz



Photograph 2: Set-up photo for Radiated Spurious Emission, Above 1GHz





Photograph 3: Set-up photo for Conducted Spurious Emission