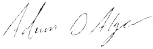


TR3932-2.4G

Equipment Under Test:	Indian Ride Command
Requirement(s):	eCFR 47 Part 15.247 RSS-247
Test Date(s):	03/30/2026 - 04/09/2026
Prepared for:	Polaris Industries Inc. Attn: Laura Zehnder 2100 Highway 55 Medina, MN 55340

Report Issued by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 06/05/2026
Report Reviewed by: Adam Alger, Sr. Manager EMC Laboratory	
Signature: 	Date: 06/03/2026
Report Constructed by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 04/16/2026

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Company: Polaris Industries Inc.	Page 1 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

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Ezurio Test Services in Review

The Ezurio laboratory located at W66 N220 Commerce Court Cedarburg, Wisconsin, 53012 USA is recognized through the following organizations:



A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025:2017 with Electrical (EMC) Scope

A2LA Certificate Number: 1255.01

Scope of accreditation includes all test methods listed herein unless otherwise noted



Federal Communications Commission (FCC) – USA

Accredited Test Firm Registration Number: 953492

Recognition of two 3 meter Semi-Anechoic Chambers



Innovation, Science and Economic Development Canada

Accredited U.S. Identification Number: US0218

Recognition of two 3 meter Semi-Anechoic Chambers

Company: Polaris Industries Inc.	Page 3 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

1 TEST REPORT SUMMARY

During **03/30/2026-04/09/2026** the Equipment Under Test (EUT), **Indian Ride Command**, as provided by **Polaris Industries Inc.** was tested to the following requirements:

FCC 15.247 | RSS-247 – DTS 2.4 GHz WLAN

Requirements	Description	Method	Compliant
15.247(d) 15.209 RSS-247 Clause 6.6 RSS-GEN Clause 8.10	Spurious Radiated Emissions in Restricted Bands 30-25000 MHz	ANSI C63.10	Yes
15.247(a)(2) RSS-247 6.3.1(a)	6dB and 99% Occupied Bandwidth	ANSI C63.10	Yes
15.247(b)(3) RSS-247 6.3.2	RF Output Power	ANSI C63.10	Yes
15.247(d) RSS-247 Clause 6.6 RSS-GEN A1 Clause 8.9	Out-of-band Emissions	ANSI C63.10	Yes
15.247(e) RSS-247 6.3.1(b)	Power Spectral Density	ANSI C63.10	Yes
2.1055(d) RSS-GEN 6.11	Frequency Stability	ANSI C63.10	Reported

Notice:

The results relate only to the item tested as configured and described in this report. Any additional configurations, modes of operation, or modifications made to the equipment under test after the specified test date(s) are at the decision of the client and may not apply to the data seen in this test report.

The decision rule for Pass / Fail assessment to the specification or standard listed in this test report has been agreed upon by the client and laboratory to be as follows:

Measurement Type	Rule
Emissions – Amplitude	4.7 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level

Company: Polaris Industries Inc.	Page 4 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

2 CLIENT INFORMATION

Company Name	Polaris Industries Inc.
Contact Person	Laura Zehnder
Address	2100 Highway 55 Medina, MN 55340

2.1 Equipment Under Test (EUT) Information

The following information has been supplied by the client

Product Name	Indian Ride Command
Model Number	RCIP-1230
Serial Number	Conducted Sample 1, Radiated Sample 1
Date of Receipt	03/30/2026
Condition	Good
FCC ID	2AOW7-RCIP-1230V1
IC ID	5966A-RCIP1230V1

2.2 Product Description

The Indian Ride Command RCIP-1230 is an infotainment display. The display supports AM/FM/WB radio, Bluetooth connectivity, Wi-Fi connectivity, vehicle health/performance information, GPS, and maps.

2.3 Modifications Incorporated for Compliance

None noted at time of test

2.4 Deviations and Exclusions from Test Specifications

None noted at time of test

Company: Polaris Industries Inc.	Page 5 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

2.5 EUT Information

Power Supply - 12V via Automotive Battery or DC Bench Supply

Firmware Version - RCS2.2.0.D6.2603181108patr

Test Software - Compliance HMI v3.0.0

Ancillary Equipment - HP Elitebook 840G1

2.6 Antenna Information

Manufacturer	Radio	Model / Part Number	Type	Peak Gain (dBi) 2400 - 2500 MHz
F3 Wireless	Infineon BT	-	Trace	6.3
F3 Wireless	Murata WLAN	-	Trace	2.6
F3 Wireless	Murata BT	-	Trace	7.0

2.7 Test Channels

Channel	Frequency (MHz)	Bandwidth (MHz)	Data Rates
1	2412	20	802.11b – 1 and 11 Mbps
6	2437	20	802.11g – 6 and 54 Mbps
11	2462	20	802.11n – MCS0 and MCS7

2.8 Power Table and Reduced Video Bandwidth for Average Measurements

Mode	Channel BW (MHz)	Data Rate	Power Setting	Minimum Average VBW (Hz)
802.11b	20	1 Mbps	14	81
802.11b	20	11 Mbps	14	828
802.11g	20	6 Mbps	11	485
802.11g	20	54 Mbps	11	4044
802.11n	20	MCS0	10	516
802.11n	20	MCS7	10	4383

3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
FCC eCFR 47 Part 15	-	2026	-	-
ANSI C63.10	-	2020	2024	-
RSS-247	4	2025	-	-
RSS-GEN	5	2018	2019	2021

References not on Scope of Accreditation

Publication	Edition	Date	AMD 1	AMD 2
KDB 558074 D01	-	2019	-	-

4 UNCERTAINTY SUMMARY

Using the guidance of the following publications the calculated measurement uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level, using a coverage factor of $k = 2$.

References

CISPR 16-4-1

CISPR 16-4-2

CISPR 32

ANSI C63.23

A2LA P103

A2LA P103c

ETSI TR 100-028

Measurement Type	Configuration	Uncertainty $\pm$
Radiated Emissions	Biconical Antenna	5.0 dB
Radiated Emissions	Log Periodic Antenna	5.3 dB
Radiated Emissions	Horn Antenna	4.7 dB
AC Line Conducted Emissions	Artificial Mains Network	3.4 dB
Telecom Conducted Emissions	Asymmetric Artificial Network	4.9 dB
Disturbance Power Emissions	Absorbing Clamp	4.1 dB
Radiated Immunity	3 Volts/meter	2.2 dB
Conducted Immunity	CDN/EM/BCI	2.4/3.5/3.4 dB
EFT Burst/Surge	Peak pulse voltage	164 volts
ESD Immunity	15 kV level	1377 Volts

Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	1×10^{-7}	0.55×10^{-7}
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9 %
Supply voltages	3 %	1 %

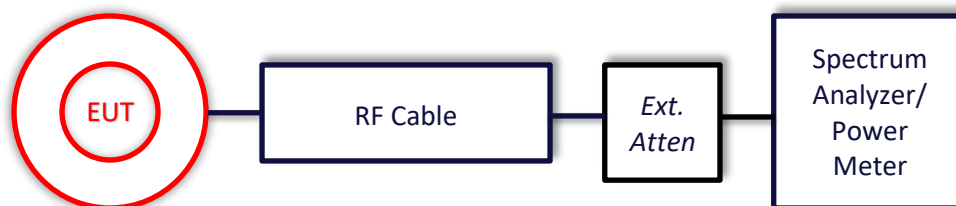
Company: Polaris Industries Inc.	Page 8 of 43	Name: Indian Ride Command
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5 TEST DATA

5.1 Antenna Port Conducted Emissions

Description of Measurement	The direct measurement of emissions at the antenna port of the EUT is achieved by use of a RF connection to a spectrum analyzer or power meter. The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.
Example Calculations	Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm) Margin (dB) = Limit (dBm) – Corrected Reading (dBm)

Block Diagram



5.1.1 Duty Cycle

Operator	Dylan Rosenfeldt	QA	Adam Alger
Temperature	21.4°C	R.H. %	35.10%
Test Date	3/30/2026	Location	RF Bench
Requirement	ANSI C63.10	Method	ANSI C63.10 11.6

Test Parameters

Frequency	2400-2483.5 MHz	Setup	Antenna Port
RBW	8 MHz	VBW	50 MHz
Detector(s)	Peak	Span	0 Hz

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	2/12/2026	2/12/2027	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/2/2026	4/2/2027	Active Calibration

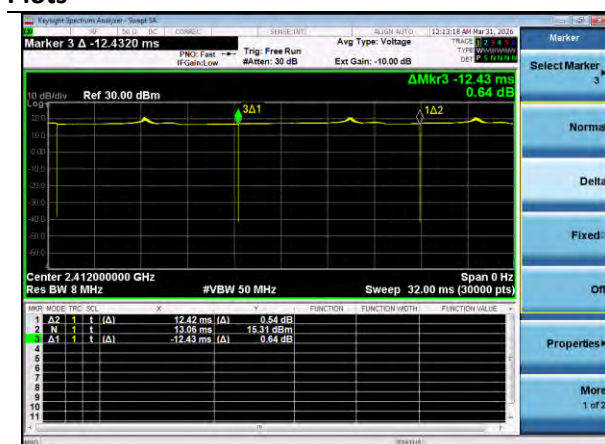
EUT Parameters

Input Power	12V via DC Bench Supply	Mode	2.4GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

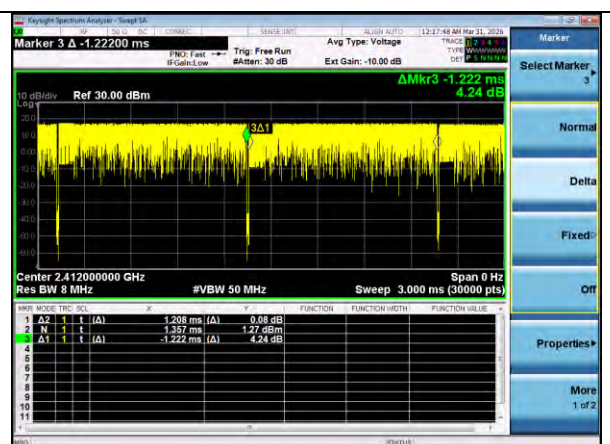
Table

Mode	On-Time (us)	Period (us)	Duty Cycle	Avg VBW (Hz)	DC correction
802.11b 1M	12420	12430	99.9%	80.5	0.0
802.11b 11M	1208	1222	98.9%	827.8	0.1
802.11g 6M	2064	2085	99.0%	484.5	0.0
802.11g 54M	247.9	269.4	92.0%	4033.9	0.4
802.11n MCS0	1941	1962	98.9%	515.2	0.0
802.11n MCS7	228.2	249.3	91.5%	4382.1	0.4

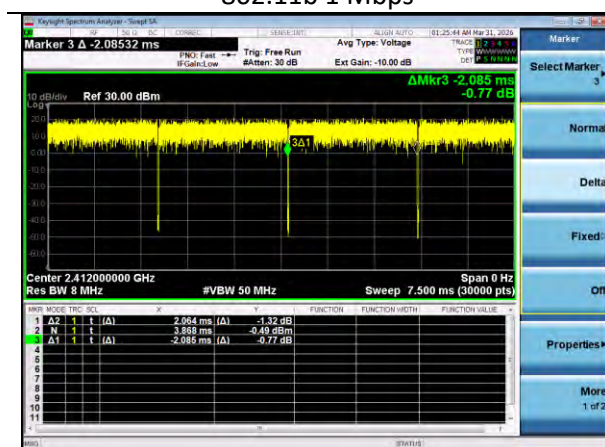
Plots



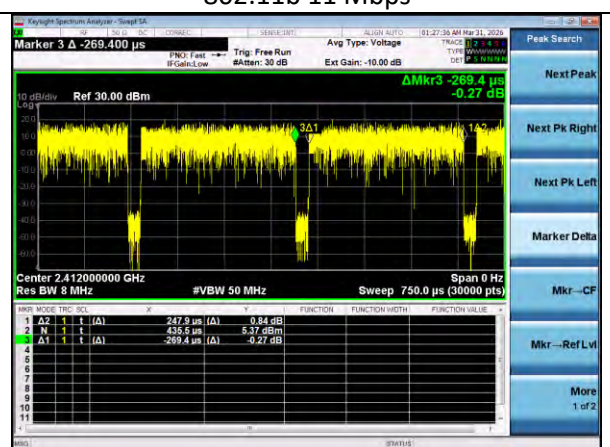
802.11b 1 Mbps



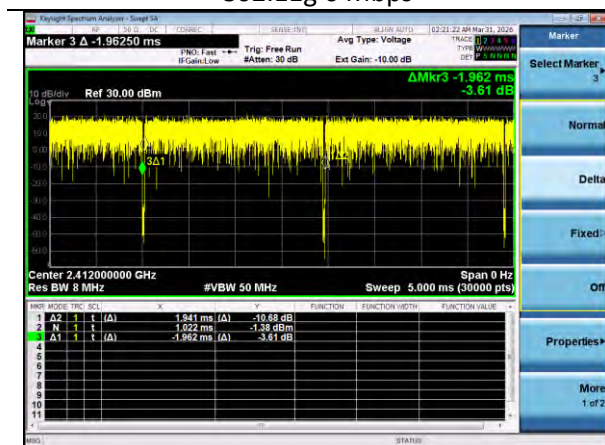
802.11b 11 Mbps



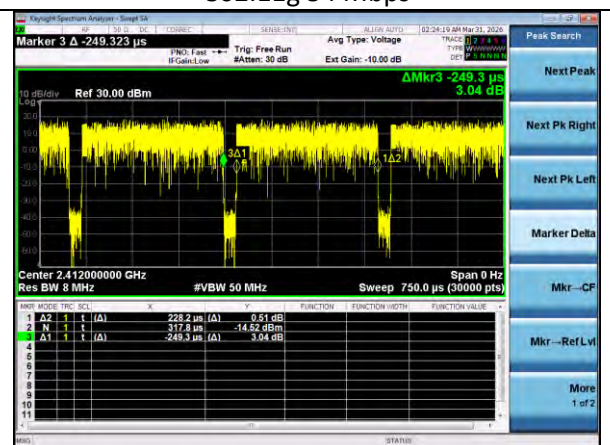
802.11g 6 Mbps



802.11g 54 Mbps



802.11n MCS0



802.11n MCS7

5.1.2 6dB and 99% Occupied Bandwidth

Operator	Dylan Rosenfeldt	QA	Adam Alger
Temperature	21.4°C	R.H. %	35.30%
Test Date	3/30/2026	Location	RF Bench
Requirement	15.247(a)(2) RSS-247 6.3.1	Method	ANSI C63.10 6.9.3, 11.8

Limits: The minimum 6 dB bandwidth shall be at least 500 kHz

Test Parameters

Frequency	2400-2483.5 MHz	Setup	Antenna Port
RBW	390kHz	VBW	4 MHz
Detector(s)	Peak	Settings	Max Hold

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	2/12/2026	2/12/2027	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/2/2026	4/2/2027	Active Calibration

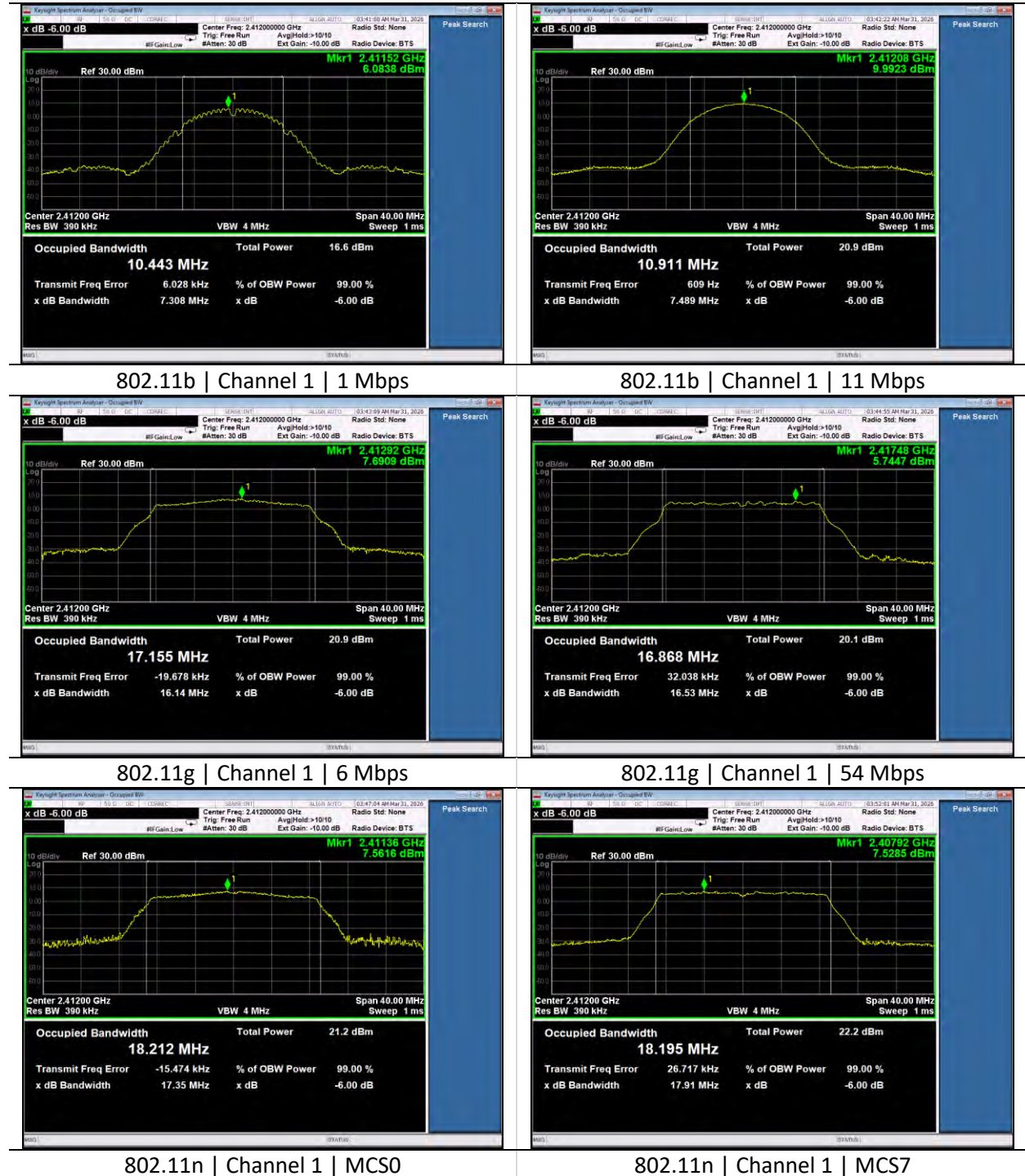
EUT Parameters

Input Power	12V via DC Bench Supply	Mode	2.4GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

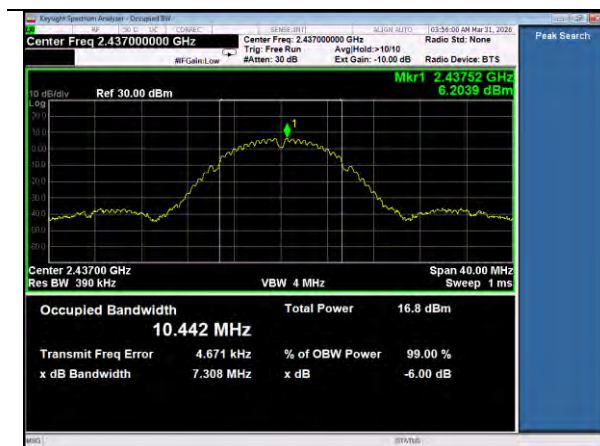
Table

Channel	Mode	OBW (MHz)	6dB DTS BW (MHz)
1	802.11b 1M	10.4	7.3
6	802.11b 1M	10.4	7.3
11	802.11b 1M	10.5	7.3
1	802.11b 11M	10.9	7.5
6	802.11b 11M	10.9	7.5
11	802.11b 11M	10.9	7.7
1	802.11g 6M	17.2	16.1
6	802.11g 6M	17.2	16.1
11	802.11g 6M	17.2	16.2
1	802.11g 54M	16.9	16.5
6	802.11g 54M	16.9	16.5
11	802.11g 54M	16.9	16.5
1	802.11n MCS0	18.2	17.4
6	802.11n MCS0	18.3	17.2
11	802.11n MCS0	18.3	17.3
1	802.11n MCS7	18.2	17.9
6	802.11n MCS7	18.2	17.9
11	802.11n MCS7	18.2	17.9

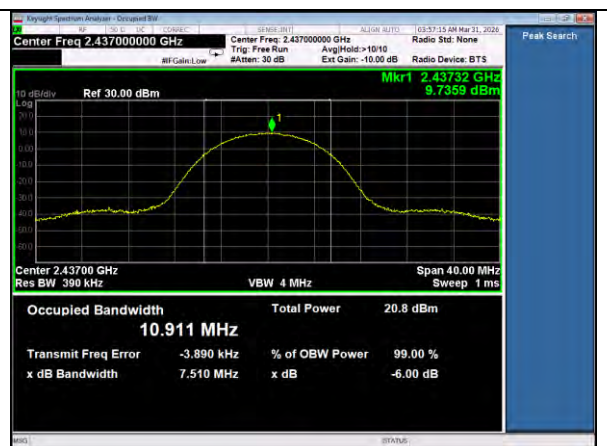
Plots



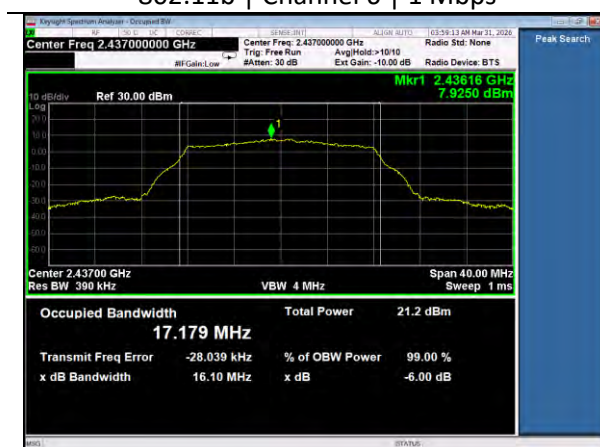
Company: Polaris Industries Inc.	Page 15 of 43	Name: Indian Ride Command
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Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1



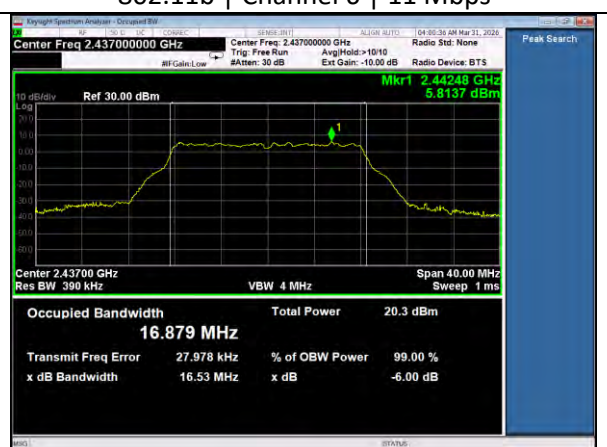
802.11b | Channel 6 | 1 Mbps



802.11b | Channel 6 | 11 Mbps



802.11g | Channel 6 | 6 Mbps



802.11g | Channel 6 | 54 Mbps

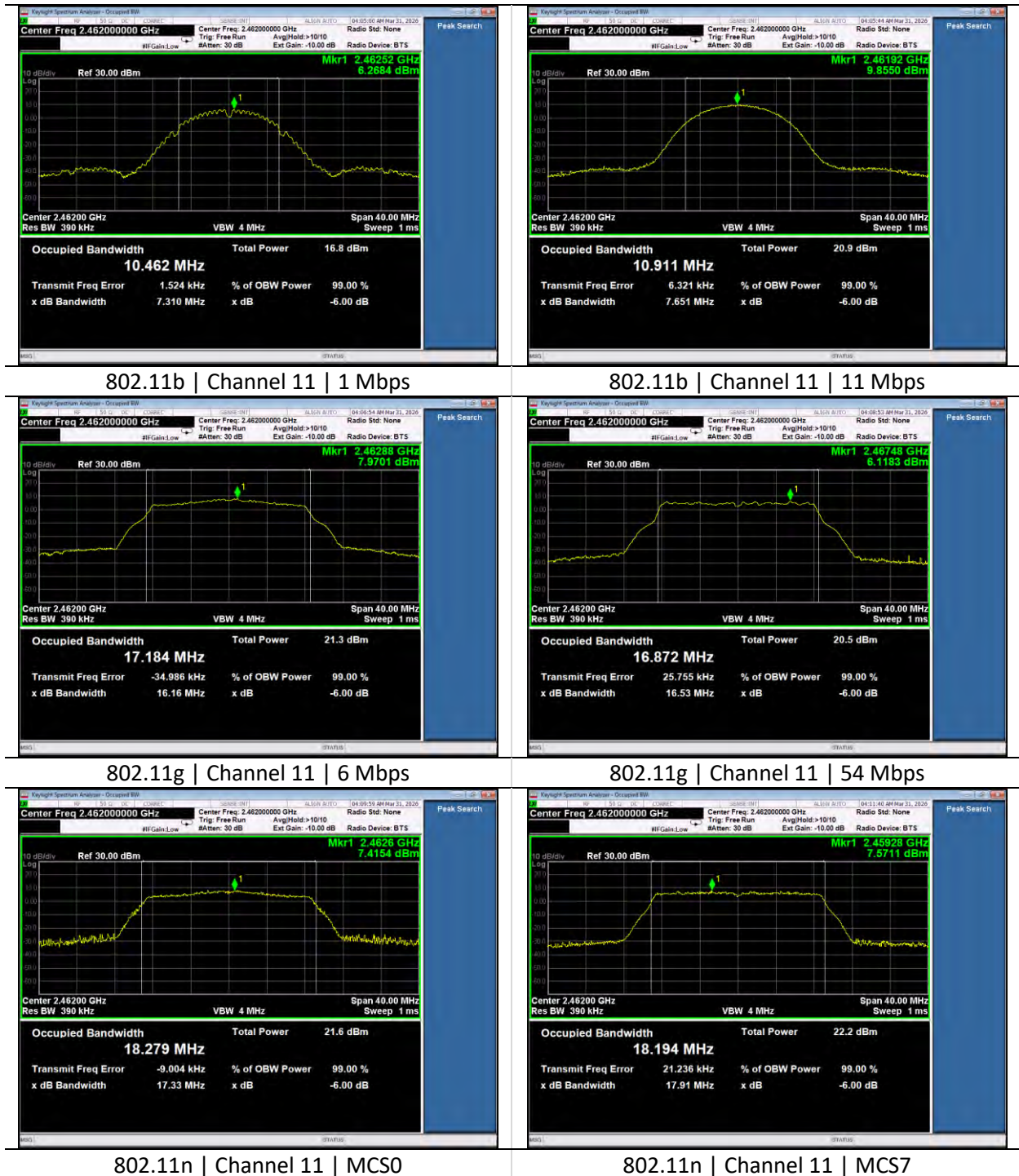


802.11n | Channel 6 | MCS0



802.11n | Channel 6 | MCS7

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Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1



5.1.3 RF Output Power

Operator	Dylan Rosenfeldt	QA	Adam Alger
Temperature	21.4°C	R.H. %	35.9%
Test Date	3/30/2026	Location	RF Bench
Requirement	15.247 (b)(3) RSS-247 6.3.2	Method	ANSI C63.10 11.9.2.2.4 AVGSA-2

Limit: The maximum peak conducted output power of the intentional radiator shall not exceed 1 Watt.

Test Parameters

Frequency	2400-2483.5 MHz	Setup	Antenna Port
RBW	300 kHz	VBW	1.0 MHz
Detector(s)	RMS	Settings	Trace Average Span: 30 MHz
Example Calculations	Average Output Power = Measured Power + 10*log(1/D) where D is the duty cycle.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	2/12/2026	2/12/2027	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/2/2026	4/2/2027	Active Calibration

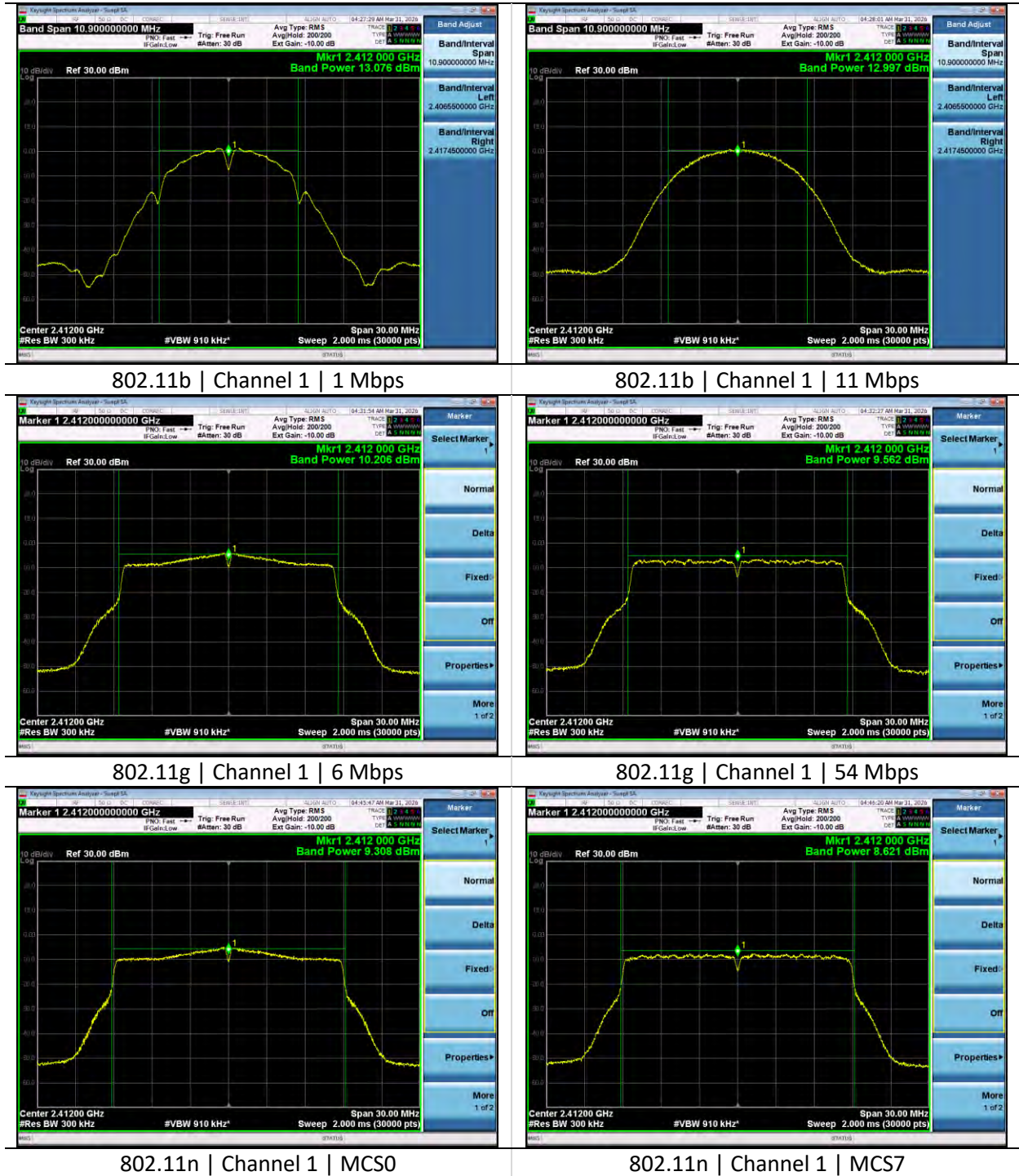
EUT Parameters

Input Power	12V via DC Bench Supply	Mode	2.4GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

Table

Channel	Mode	Avg Measured Output Power (dBm)	Duty Cycle Correction (dB)	Corrected Avg Output Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
1	802.11b 1M	13.1	0.0	13.1	30	16.9	14
6	802.11b 1M	13.2	0.0	13.2	30	16.8	14
11	802.11b 1M	13.4	0.0	13.4	30	16.6	14
1	802.11b 11M	13.0	0.1	13.1	30	16.9	14
6	802.11b 11M	13.1	0.1	13.2	30	16.8	14
11	802.11b 11M	13.3	0.1	13.4	30	16.6	14
1	802.11g 6M	10.2	0.0	10.2	30	19.8	11
6	802.11g 6M	10.4	0.0	10.4	30	19.6	11
11	802.11g 6M	10.5	0.0	10.5	30	19.5	11
1	802.11g 54M	9.6	0.4	10.0	30	20.0	11
6	802.11g 54M	9.6	0.4	10.0	30	20.0	11
11	802.11g 54M	9.8	0.4	10.2	30	19.8	11
1	802.11n MCS0	9.3	0.0	9.3	30	20.7	10
6	802.11n MCS0	9.6	0.0	9.6	30	20.4	10
11	802.11n MCS0	9.7	0.0	9.7	30	20.3	10
1	802.11n MCS7	8.6	0.4	9.0	30	21.0	10
6	802.11n MCS7	8.8	0.4	9.2	30	20.8	10
11	802.11n MCS7	8.9	0.4	9.3	30	20.7	10

Plots



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Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1



802.11b | Channel 6 | 1 Mbps



802.11b | Channel 6 | 11 Mbps



802.11g | Channel 6 | 6 Mbps



802.11g | Channel 6 | 54 Mbps



802.11n | Channel 6 | MCS0



802.11n | Channel 6 | MCS7

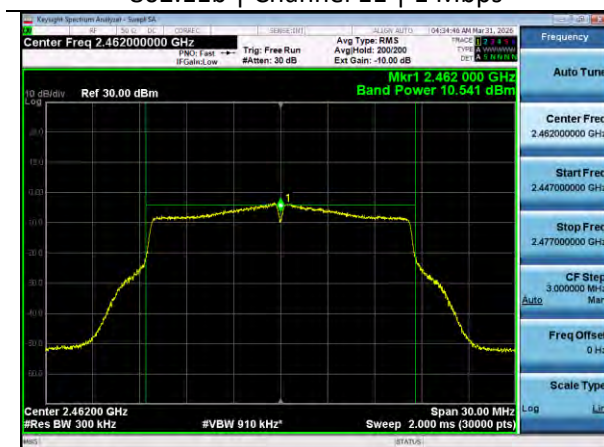
Company: Polaris Industries Inc.	Page 21 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1



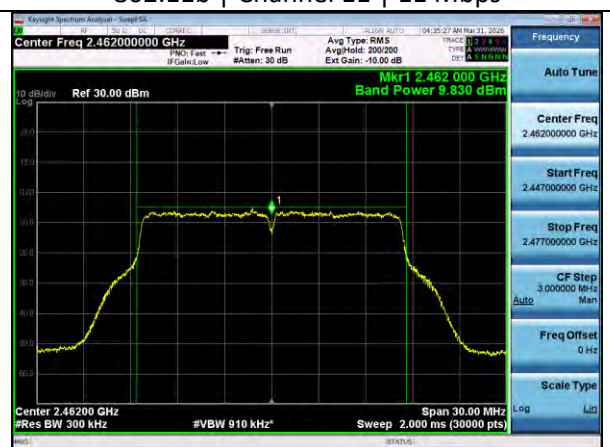
802.11b | Channel 11 | 1 Mbps



802.11b | Channel 11 | 11 Mbps



802.11g | Channel 11 | 6 Mbps



802.11g | Channel 11 | 54 Mbps



802.11n | Channel 11 | MCS0



802.11n | Channel 11 | MCS7

5.1.4 Power Spectral Density

Operator	Dylan Rosenfeldt	QA	Adam Alger, Mitchell Freund
Temperature	21.6°C	R.H. %	35.2%
Test Date	3/31/2026	Location	RF Bench
Requirement	15.247 (e) RSS-247 6.3.1	Method	ANSI C63.10 11.10.5 AVGPSD-2

Limits: Power spectral density shall not be greater than 8 dBm in any 3 kHz band.

Test Parameters

Frequency	2400-2483.5 MHz	Setup	Antenna Port
RBW	100 kHz	VBW	300 kHz
Detector(s)	RMS	Settings	Trace Average Span: 30 MHz
Example Calculations	Average PSD = Measured PSD + 10*log(1/D) where D is the duty cycle.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	2/12/2026	2/12/2027	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/2/2026	4/2/2027	Active Calibration

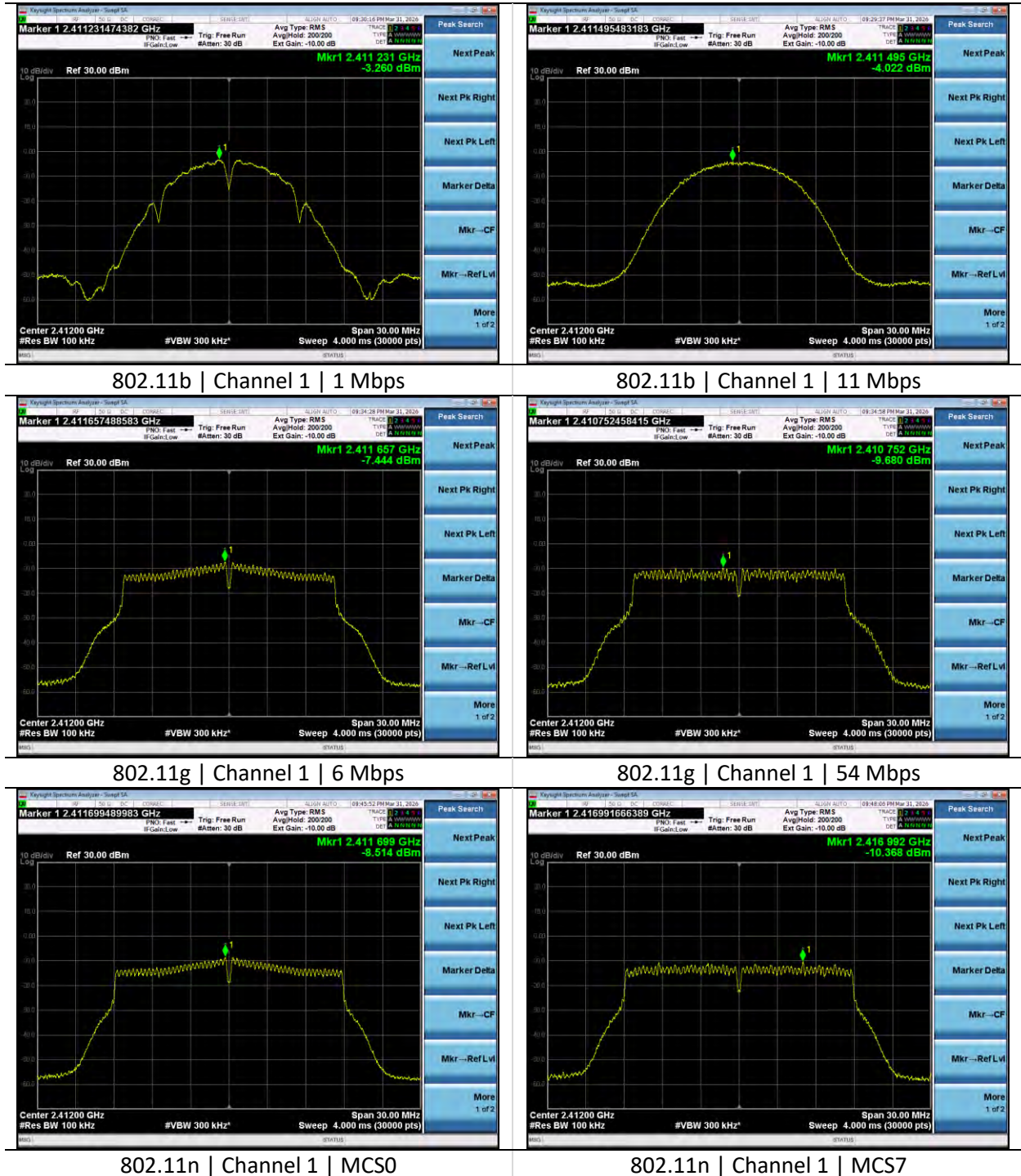
EUT Parameters

Input Power	12V via DC Bench Supply	Mode	2.4GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

Table

Channel	Mode	Avg PSD (dBm/100kHz)	Duty Cycle Correction (dB)	Corrected Avg PSD (dBm/100kHz)	Limit (dBm/3kHz)	Margin (dB)	Power Setting
1	802.11b 1M	-3.3	0.0	-3.3	8	11.3	14
6	802.11b 1M	-2.9	0.0	-2.9	8	10.9	14
11	802.11b 1M	-2.6	0.0	-2.6	8	10.6	14
1	802.11b 11M	-4.0	0.1	-3.9	8	11.9	14
6	802.11b 11M	-3.5	0.1	-3.4	8	11.4	14
11	802.11b 11M	-3.3	0.1	-3.2	8	11.2	14
1	802.11g 6M	-7.4	0.0	-7.4	8	15.4	11
6	802.11g 6M	-7.1	0.0	-7.1	8	15.1	11
11	802.11g 6M	-7.0	0.0	-7.0	8	15.0	11
1	802.11g 54M	-9.7	0.4	-9.3	8	17.3	11
6	802.11g 54M	-9.5	0.4	-9.1	8	17.1	11
11	802.11g 54M	-9.0	0.4	-8.6	8	16.6	11
1	802.11n MCS0	-8.5	0.0	-8.5	8	16.5	10
6	802.11n MCS0	-8.4	0.0	-8.4	8	16.4	10
11	802.11n MCS0	-8.3	0.0	-8.3	8	16.3	10
1	802.11n MCS7	-10.4	0.4	-10.0	8	18.0	10
6	802.11n MCS7	-10.2	0.4	-9.8	8	17.8	10
11	802.11n MCS7	-10.1	0.4	-9.7	8	17.7	10

Plots



Company: Polaris Industries Inc.

Report: TR3932-2.4G

Quote: NBO-06-2025-008193

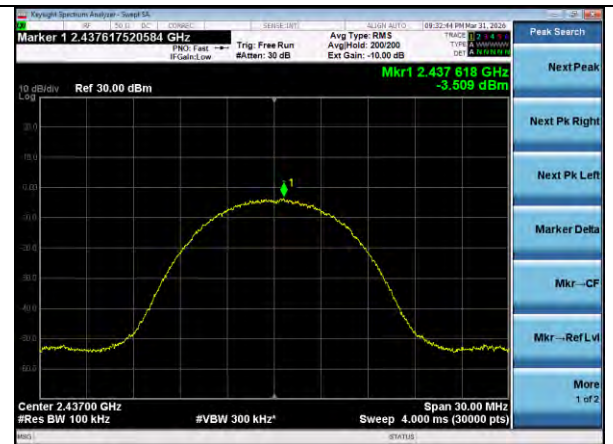
Name: Indian Ride Command

Model: RCIP-1230

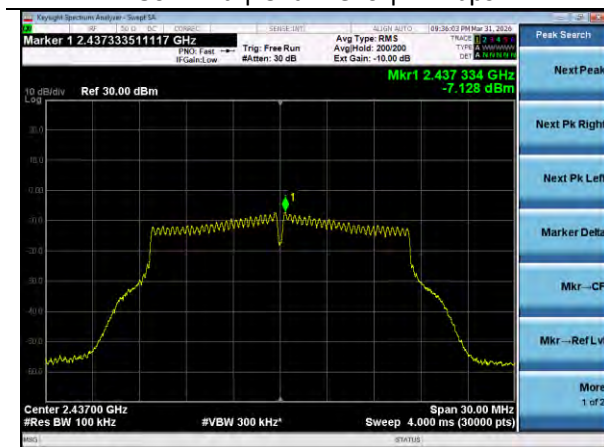
Serial: Conducted Sample 1, Radiated Sample 1



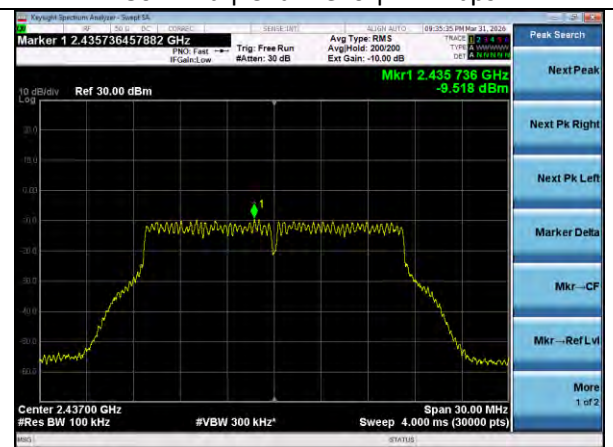
802.11b | Channel 6 | 1 Mbps



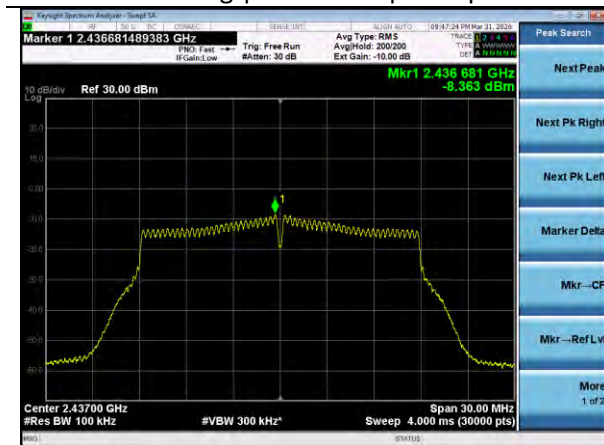
802.11b | Channel 6 | 11 Mbps



802.11g | Channel 6 | 6 Mbps



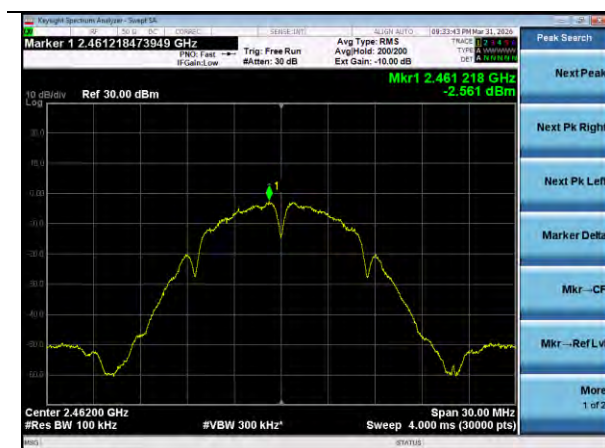
802.11g | Channel 6 | 54 Mbps



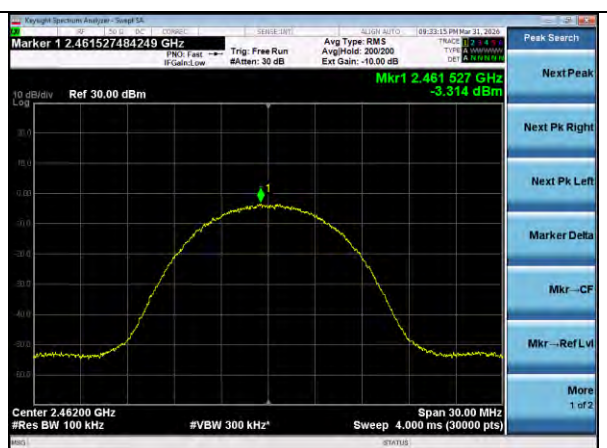
802.11n | Channel 6 | MCS0



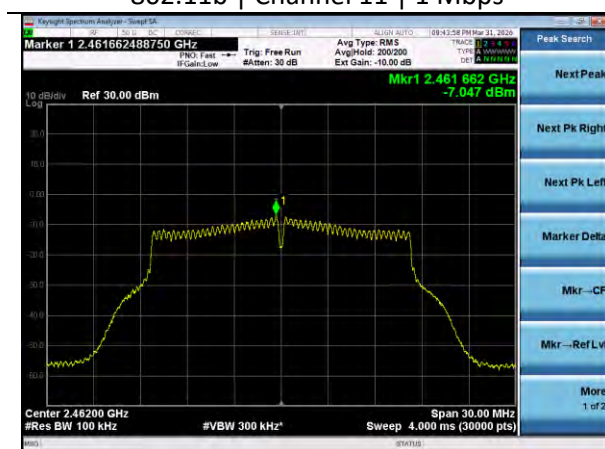
802.11n | Channel 6 | MCS7



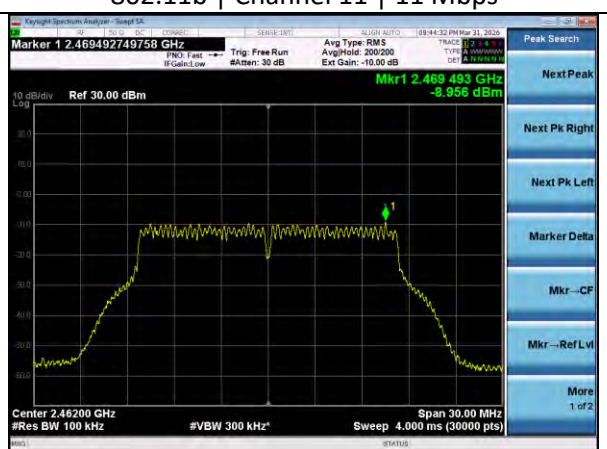
802.11b | Channel 11 | 1 Mbps



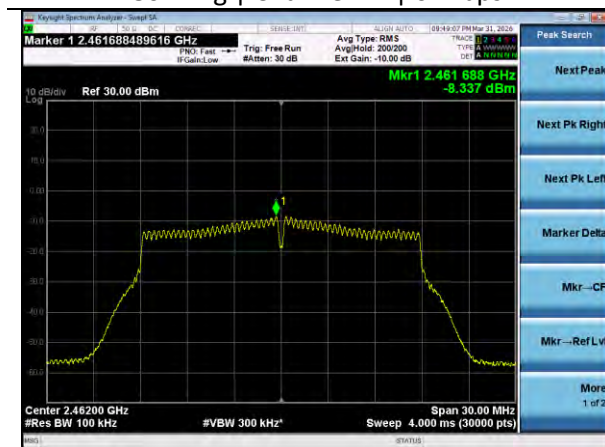
802.11b | Channel 11 | 11 Mbps



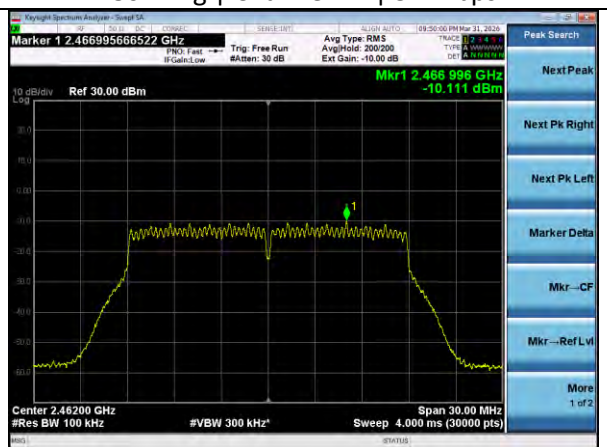
802.11g | Channel 11 | 6 Mbps



802.11g | Channel 11 | 54 Mbps



802.11n | Channel 11 | MCS0



802.11n | Channel 11 | MCS7

Company: Polaris Industries Inc.	Page 27 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

5.1.5 Emissions in Non-Restricted Frequency Bands

Operator	Dylan Rosenfeldt	QA	Mitchell Freund
Temperature	21.2°C	R.H. %	35.70%
Test Date	3/31/2026	Location	RF Bench
Requirement	15.247(d) RSS-247 6.6	Method	ANSI C63.10 11.11

Limits: -30dBc

Reference Level (Worst Case PSD)

Channel 11 – 1 Mbps – 6.2 dBm/100 kHz

6.2 dBm-30 dB = -23.8 dBm Limit

Test Parameters

Frequency	30-25000 MHz	Setup	Antenna Port
RBW	100 kHz	VBW	300 kHz
Detector(s)	Peak		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	2/12/2026	2/12/2027	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	4/2/2026	4/2/2027	Active Calibration

EUT Parameters

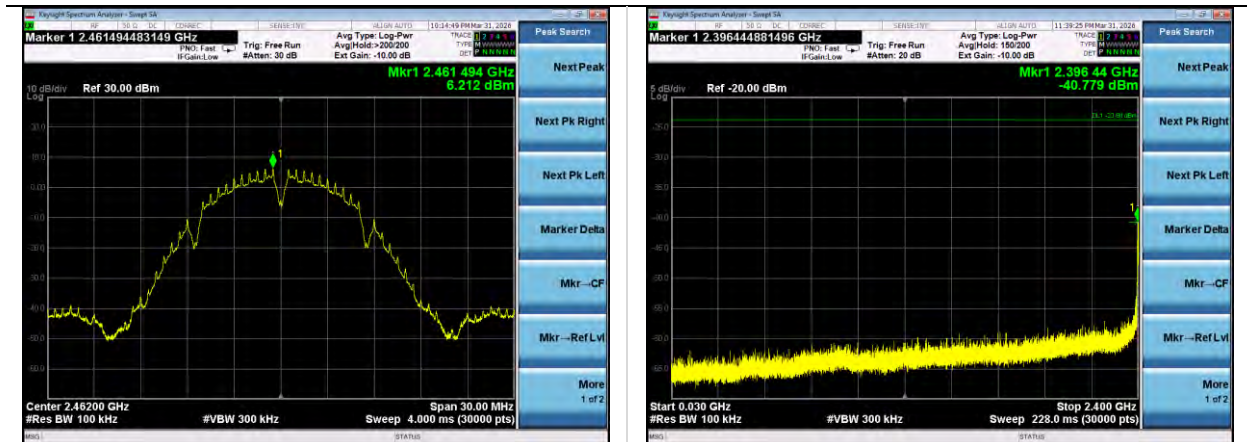
Input Power	12V via DC Bench Supply	Mode	2.4GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

Company: Polaris Industries Inc.	Page 28 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

Measurements

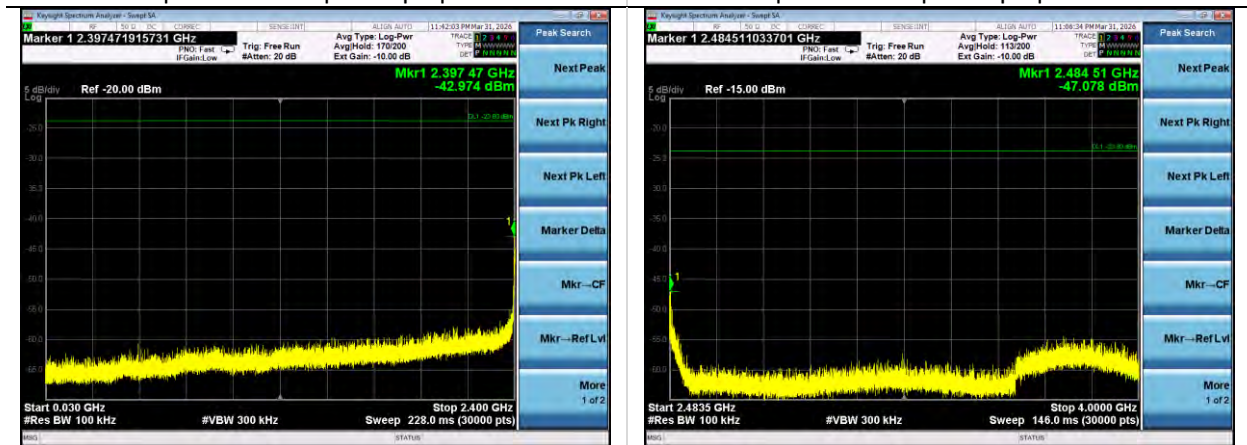
Channel	Mode	Frequency (MHz)	Peak Measurement (dBm)	Limit (dBm)	Margin (dB)	Power Setting
1	802.11b 1M	24183.9	-52.3	-23.8	28.5	14
6	802.11b 1M	7310.0	-50.4	-23.8	26.6	14
11	802.11b 1M	7388.0	-52.2	-23.8	28.4	14
1	802.11b 11M	7236.8	-52.1	-23.8	28.3	14
11	802.11g 6M	2487.7	-51.6	-23.8	27.8	11
11	802.11g 54M	2484.5	-46.3	-23.8	22.5	11
11	802.11n MCS0	2489.5	-49.7	-23.8	25.9	10
11	802.11n MCS7	2487.0	-50.3	-23.8	26.5	10
1	802.11b 1M	2398.5	-39.5	-23.8	15.7	14
1	802.11b 11M	2398.4	-41.2	-23.8	17.4	14
1	802.11g 6M	2399.5	-44.3	-23.8	20.5	11
1	802.11g 54M	2399.9	-45.0	-23.8	21.2	11
1	802.11n MCS0	2399.9	-44.3	-23.8	20.5	10
1	802.11n MCS7	2399.8	-43.9	-23.8	20.1	10

Worst Case Plots



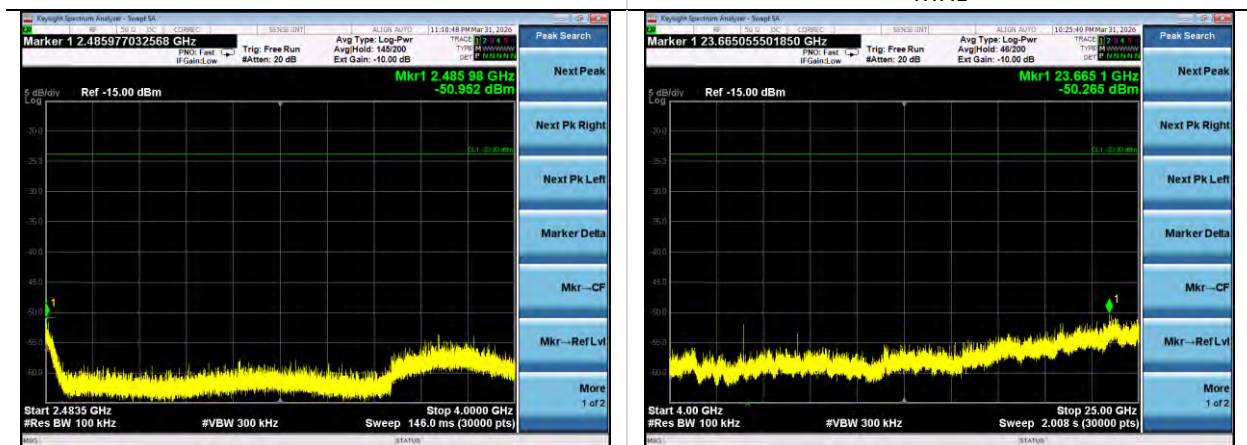
802.11b | Channel 11 | 1 Mbps | Reference

802.11b | Channel 1 | 1 Mbps | 30-2400 MHz



802.11b | Channel 1 | 11 Mbps | 30-2400 MHz

802.11g | Channel 11 | 54 Mbps | 2483.5-4000 MHz



802.11n | Channel 11 | MCS0 | 2483.5-4000 MHz

802.11b | Channel 6 | 1 Mbps | 4000-25000 MHz

Company: Polaris Industries Inc.

Report: TR3932-2.4G

Quote: NBO-06-2025-008193

Name: Indian Ride Command

Model: RCIP-1230

Serial: Conducted Sample 1, Radiated Sample 1

5.1.6 Frequency Stability

Operator	Dylan Rosenfeldt	QA	Adam Alger
Temperature	21.4°C	R.H. %	33.20%
Test Date	4/2/2026	Location	RF Bench
Requirement	2.1055(d) RSS-GEN 6.11	Method	ANSI C63.10 6.8

Test Parameters

Frequency	2400-2483.5 MHz	Voltage	10.2 VDC, 12 VDC, and 13.8 VDC
Detector(s)	Peak	Settings	Max Hold

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960203	Analyzer - EMI Receiver	Keysight	N9038A	MY56400072	4/1/2026	4/1/2027	Active Calibration
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	2/12/2026	2/12/2027	Active Verification

Table

Channel	Voltage (VDC)	Center Frequency (Hz)
1	12.0	2411984624
	10.2	2411987749
	13.8	2411984147
6	12.0	2436983669
	10.2	2436983515
	13.8	2436984110
11	12.0	2461983423
	10.2	2461983778
	13.8	2461983249

5.2 Radiated Emissions

Description of Measurement	The frequency spectrum is investigated for intentional and / or unintentional signals emanating from the EUT by use of a standardized test site and measurement antenna. The antenna, cable, pre-amp, and other necessary measurement system correction factors are loaded onto the EMI receiver / spectrum analyzer when the measurements are performed allowing the data to be gathered and reported as corrected values. The maximum emissions from the EUT are determined by turn-table azimuth rotation (360°) and scanning of the measurement antenna. Maximized levels are noted at degree values of azimuth, measurement antenna height, and measurement antenna polarity.
Example Calculations	Measurement (dBμV) + Cable factor (dB) + Other (dB) + Antenna Factor (dB/m) = Corrected Reading (dBμV/m) Margin (dB) = Limit (dBμV/m) - Corrected Reading (dBμV/m) Example at 4000 MHz: Reading = 40 dBμV + 3.4 dB + 0.9 dB + 6.5 dB/m = 50.8 dBμV/m Average Limit = 20 log (500) = 54 dBμV/m Margin = 54 dBμV/m - 50.8 dBμV/m = 3.2 dB

Block Diagram



5.2.1 Spurious Radiated Emissions in the Restricted Bands

Operator	Marcos Pineda, Mitchell Freund	QA	Dylan Rosenfeldt
Temperature	20-25°C	R.H. %	20-50%
Test Date	4/1/2026 - 4/9/2026	Location	Chamber 3
Requirement	15.247(d) RSS-247 6.6	Method	ANSI C63.10 11.12

15.209 Limits:

Frequency (MHz)	Quasi-Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Peak Limit (dBμV/m)
30-88	40.0	-	-
88-216	43.5	-	-
216-960	46.0	-	-
960-1000	54.0	-	-
1000-40000	-	54.0	74.0

Test Parameters

Frequency	30-25000 MHz	Distance	3 m
Detector(s)	Peak - Trace/Final Quasi-Peak - Final	Table height	<1000 MHz – 80cm >1000 MHz – 150 cm
RBW	<1000 MHz – 120 kHz >1000 MHz – 1 MHz	VBW	<1000 – 1.2 MHz >1000 MHz – 3MHz See 2.8
Example Calculations	Avg VBW = (1/Tx on-time)		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/1/2026	4/1/2027	Active Calibration
AA 960081	Antenna - Double Ridge Horn	EMCO	3115	6907	10/8/2025	10/8/2026	Active Calibration
LSC-300	Cable	Chamber 3 Emissions	-	-	2/18/2026	2/18/2027	Active Verification
AA 960174	Antenna - Small Horn	ETS Lindgren	3116C-PA	00206880	10/7/2025	10/7/2026	Active Calibration
LSC-546	Cable	A.H. Systems, Inc.	SAC-26G-6	546	2/12/2026	2/12/2027	Active Verification
AA 960210	Antenna - Low Noise Amplifier	Mini-Circuits	ZVA-213X-S+	037101808	10/8/2025	10/8/2026	Active Calibration
AA 960150	Antenna - Biconical	ETS Lindgren	3110B	0003-3346	9/18/2025	9/18/2026	Active Calibration
AA 960195	Antenna - Log Periodic	A.H. Systems, Inc.	SAS-512-2	557	9/18/2025	9/18/2026	Active Calibration
AA 960153	Filter - High Pass 2.4 GHz	KWM	HPF-L-14186	7272-04	3/31/2026	3/31/2027	Active Calibration
EE 960203	Analyzer - EMI Receiver	Keysight	N9038A	MY56400072	4/1/2026	4/1/2027	Active Calibration

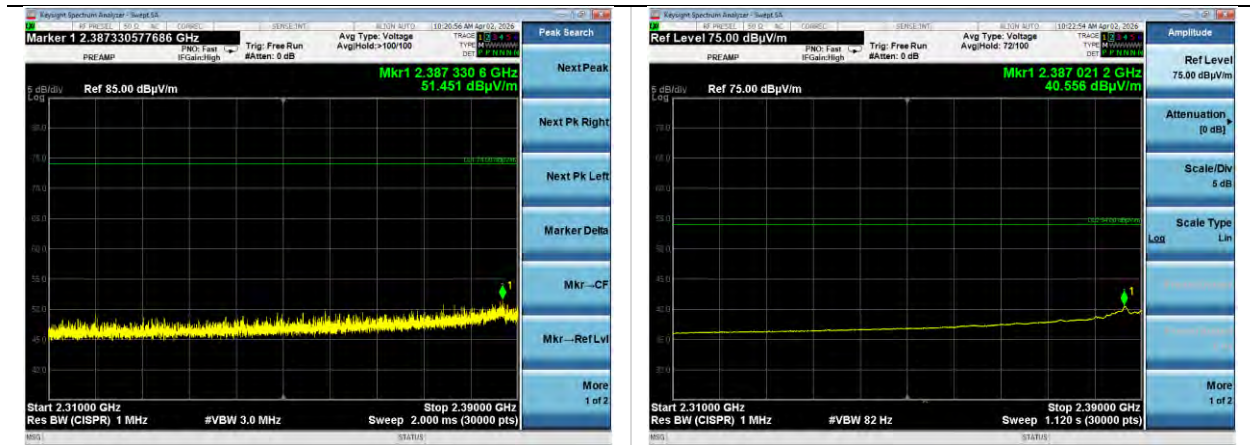
EUT Parameters

Input Power	12V Battery	Mode	2.4GHz WLAN TX
AE	AM/FM Antenna, GPS Antenna, USB cable, Audio Amplifier	Channels	See 2.7

Band Edge Measurements

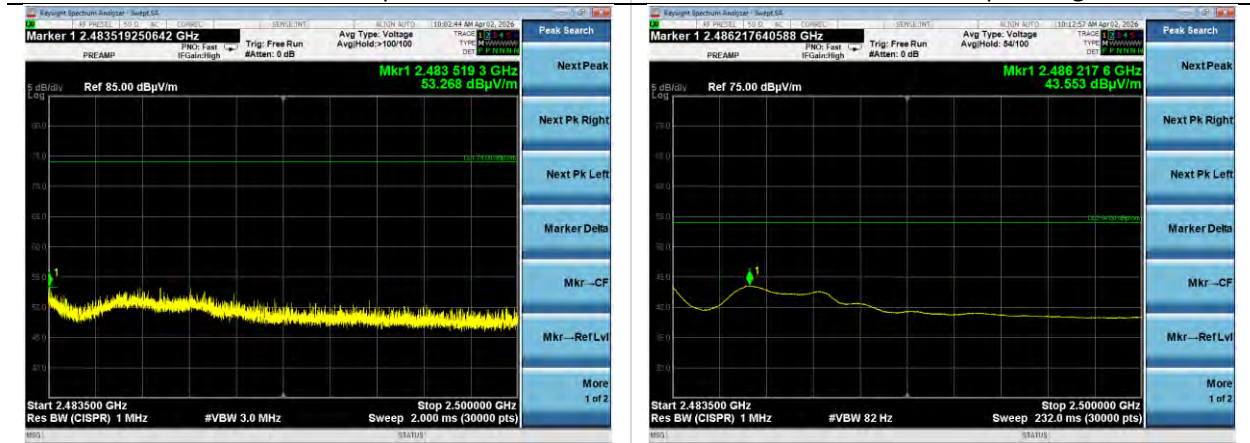
Mode	Frequency (MHz)	Antenna Polarity	Measurement Type	Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Power Setting	Channel
802.11b 1Mbps	2484.0	Vertical	Peak	53.7	74.0	20.3	14	11
	2486.0	Vertical	Average	43.6	54.0	10.4	14	11
	2387.0	Vertical	Peak	51.5	74.0	22.5	14	1
	2387.0	Vertical	Average	40.6	54.0	13.4	14	1
802.11b 11Mbps	2386.0	Vertical	Peak	51.4	74.0	22.6	14	11
	2387.0	Vertical	Average	40.3	54.0	13.7	14	11
	2486.0	Vertical	Peak	52.9	74.0	21.1	14	1
	2484.0	Vertical	Average	42.1	54.0	11.9	14	1
802.11g 6Mbps	2485.0	Vertical	Peak	54.1	74.0	19.9	11	11
	2484.0	Vertical	Average	42.2	54.0	11.8	11	11
	2389.0	Vertical	Peak	57.3	74.0	16.7	11	1
	2389.0	Vertical	Average	44.0	54.0	10.0	11	1
802.11g 54Mbps	2484.0	Vertical	Peak	54.0	74.0	20.0	11	11
	2484.0	Vertical	Average	40.6	54.0	13.4	11	11
	2389.0	Vertical	Peak	56.2	74.0	17.8	11	1
	2390.0	Vertical	Average	44.9	54.0	9.1	11	1
802.11n MCS0	2488.0	Vertical	Peak	54.3	74.0	19.7	10	11
	2484.0	Vertical	Average	42.9	54.0	11.1	10	11
	2389.0	Vertical	Peak	57.9	74.0	16.1	10	1
	2389.0	Vertical	Average	42.1	54.0	11.9	10	1
802.11n MCS7	2484.0	Vertical	Peak	54.4	74.0	19.6	10	11
	2486.0	Vertical	Average	43.5	54.0	10.5	10	11
	2389.0	Vertical	Peak	55.4	74.0	18.6	10	1
	2389.0	Vertical	Average	44.1	54.0	9.9	10	1

Band Edge Plots



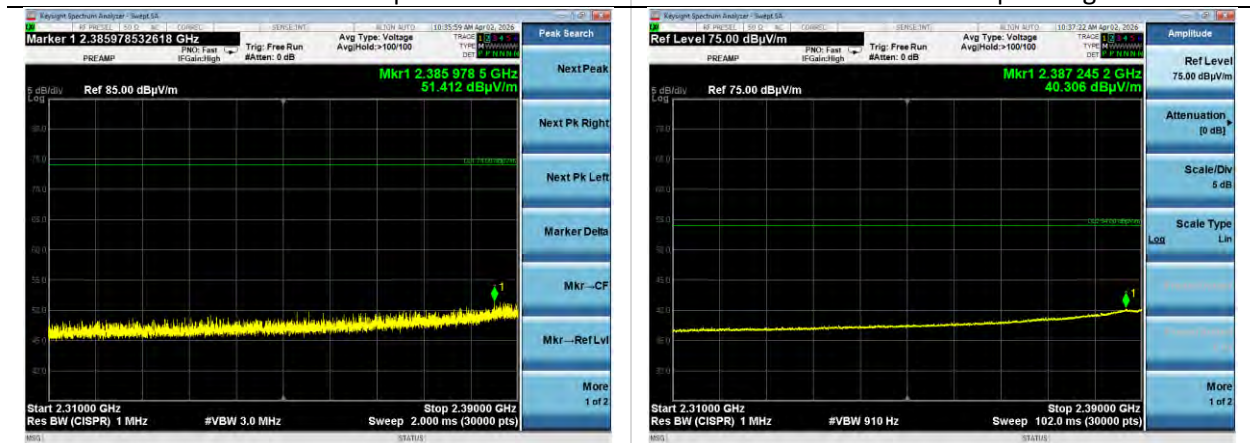
802.11b | Channel 1 | 1 Mbps |
2310-2390 MHz | Peak

802.11b | Channel 1 | 1 Mbps |
2310-2390 MHz | Average



802.11b | Channel 11 | 1 Mbps |
2483.5-2500 MHz | Peak

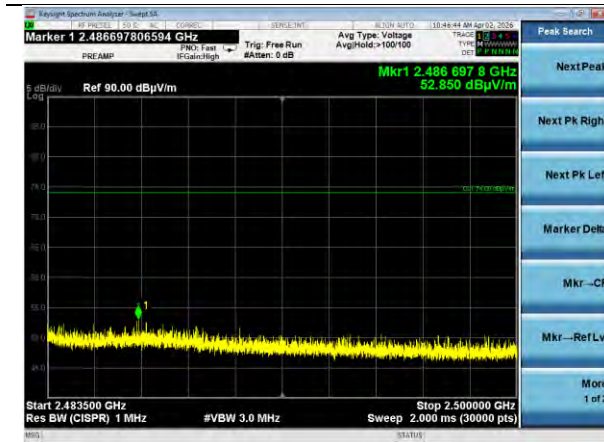
802.11b | Channel 11 | 1 Mbps |
2483.5-2500 MHz | Average



802.11b | Channel 1 | 11 Mbps |
2310-2390 MHz | Peak

802.11b | Channel 1 | 11 Mbps |
2310-2390 MHz | Average

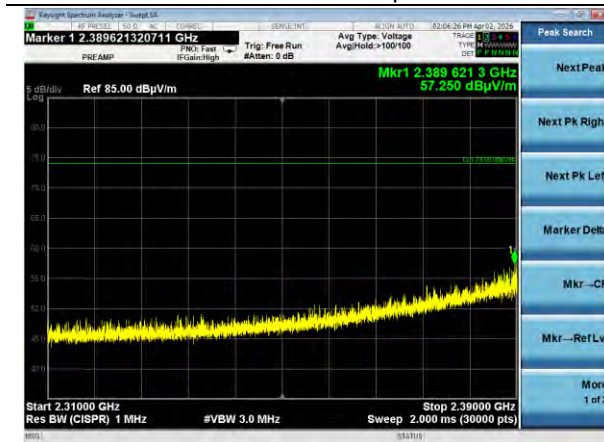
Company: Polaris Industries Inc.	Page 36 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
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802.11b | Channel 11 | 11 Mbps |
2483.5-2500 MHz | Peak



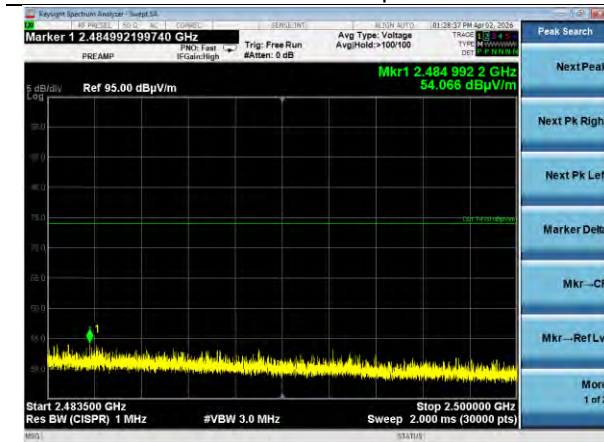
802.11b | Channel 11 | 11 Mbps |
2483.5-2500 MHz | Average



802.11g | Channel 1 | 6 Mbps |
2310-2390 MHz | Peak



802.11g | Channel 1 | 6 Mbps |
2310-2390 MHz | Average

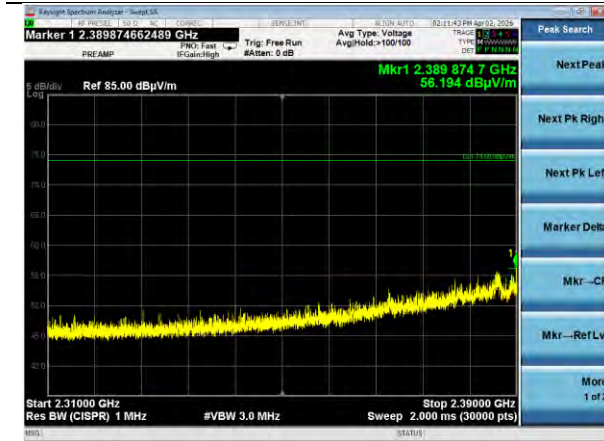


802.11g | Channel 11 | 6 Mbps |
2483.5-2500 MHz | Peak



802.11g | Channel 11 | 6 Mbps |
2483.5-2500 MHz | Average

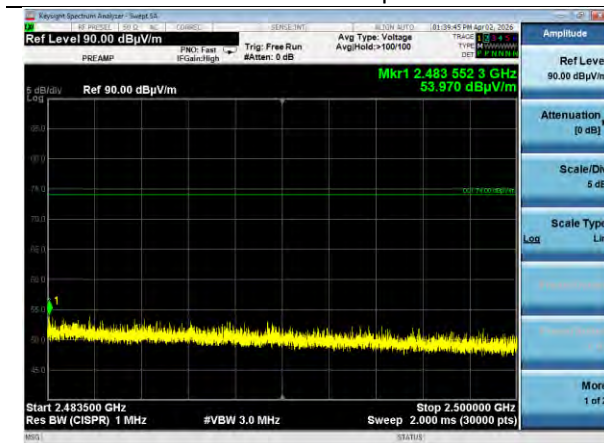
Company: Polaris Industries Inc.	Page 37 of 43	Name: Indian Ride Command
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Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1



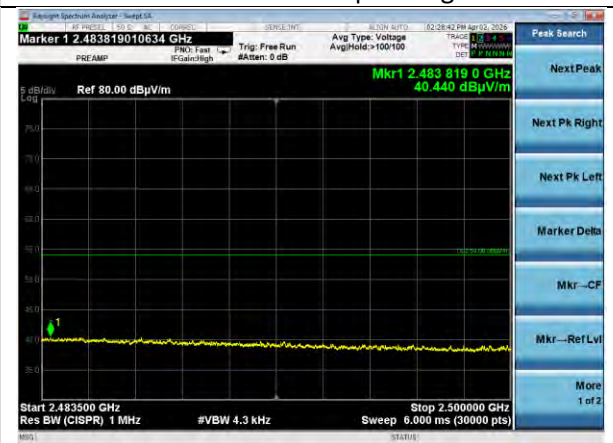
802.11g | Channel 1 | 54 Mbps |
2310-2390 MHz | Peak



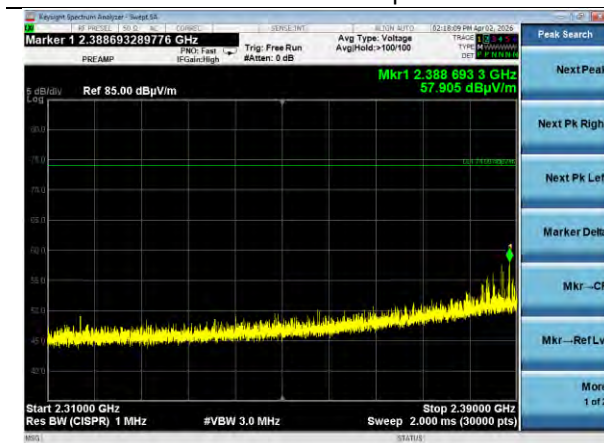
802.11g | Channel 1 | 54 Mbps |
2310-2390 MHz | Average



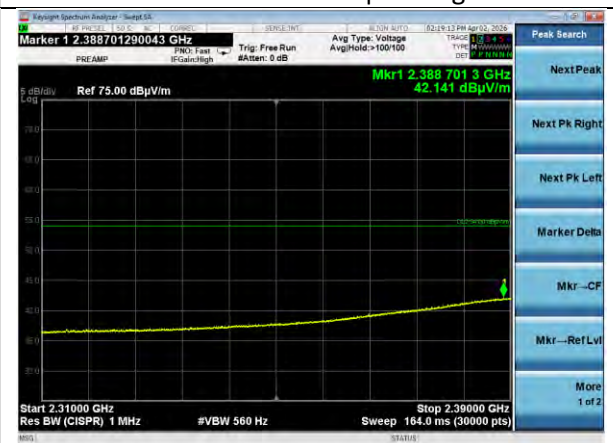
802.11g | Channel 11 | 54 Mbps |
2483.5-2500 MHz | Peak



802.11g | Channel 11 | 54 Mbps |
2483.5-2500 MHz | Average

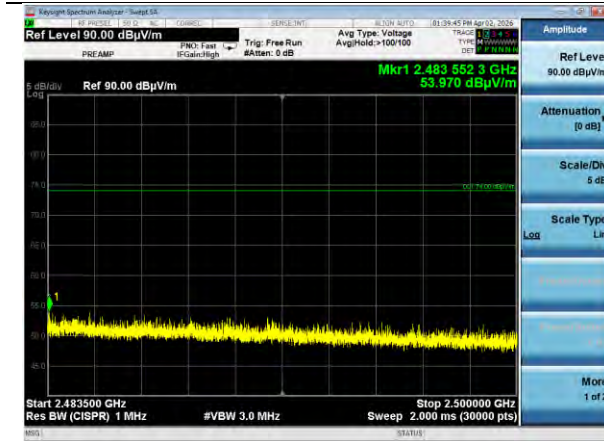


802.11n | Channel 1 | MCS0 |
2310-2390 MHz | Peak



802.11b | Channel 1 | MCS0 |
2310-2390 MHz | Average

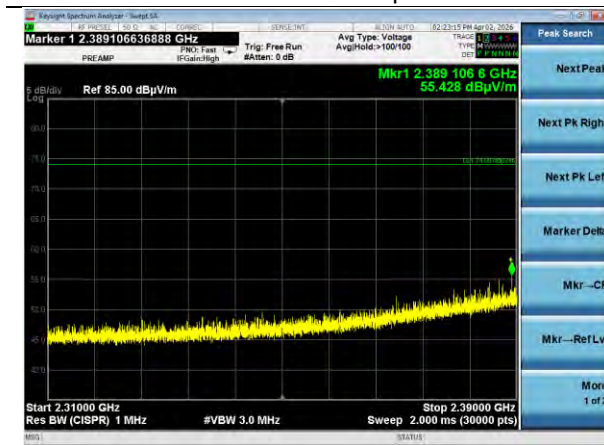
Company: Polaris Industries Inc.	Page 38 of 43	Name: Indian Ride Command
Report: TR3932-2.4G		Model: RCIP-1230
Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1



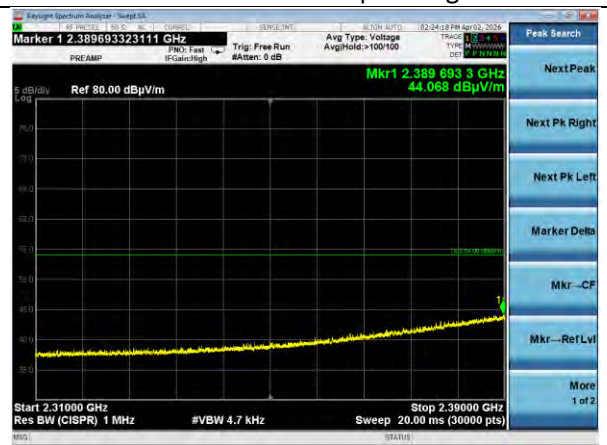
802.11n | Channel 11 | MCS0 |
2483.5-2500 MHz | Peak



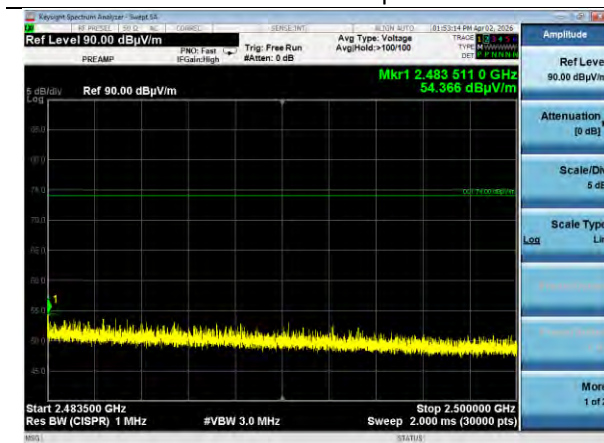
802.11n | Channel 11 | MCS0 |
2483.5-2500 MHz | Average



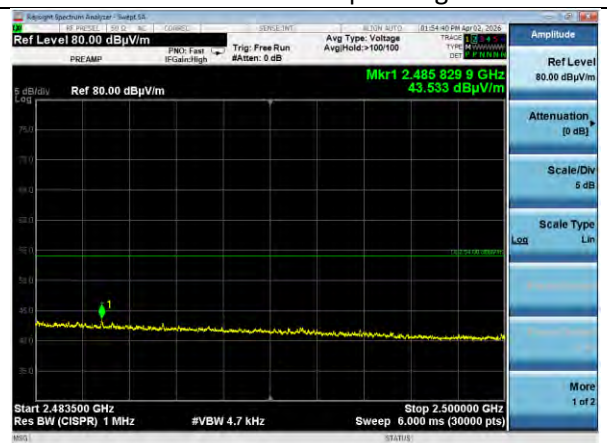
802.11n | Channel 1 | MCS7 |
2310-2390 MHz | Peak



802.11n | Channel 1 | MCS7 |
2310-2390 MHz | Average



802.11n | Channel 11 | MCS7 |
2483.5-2500 MHz | Peak



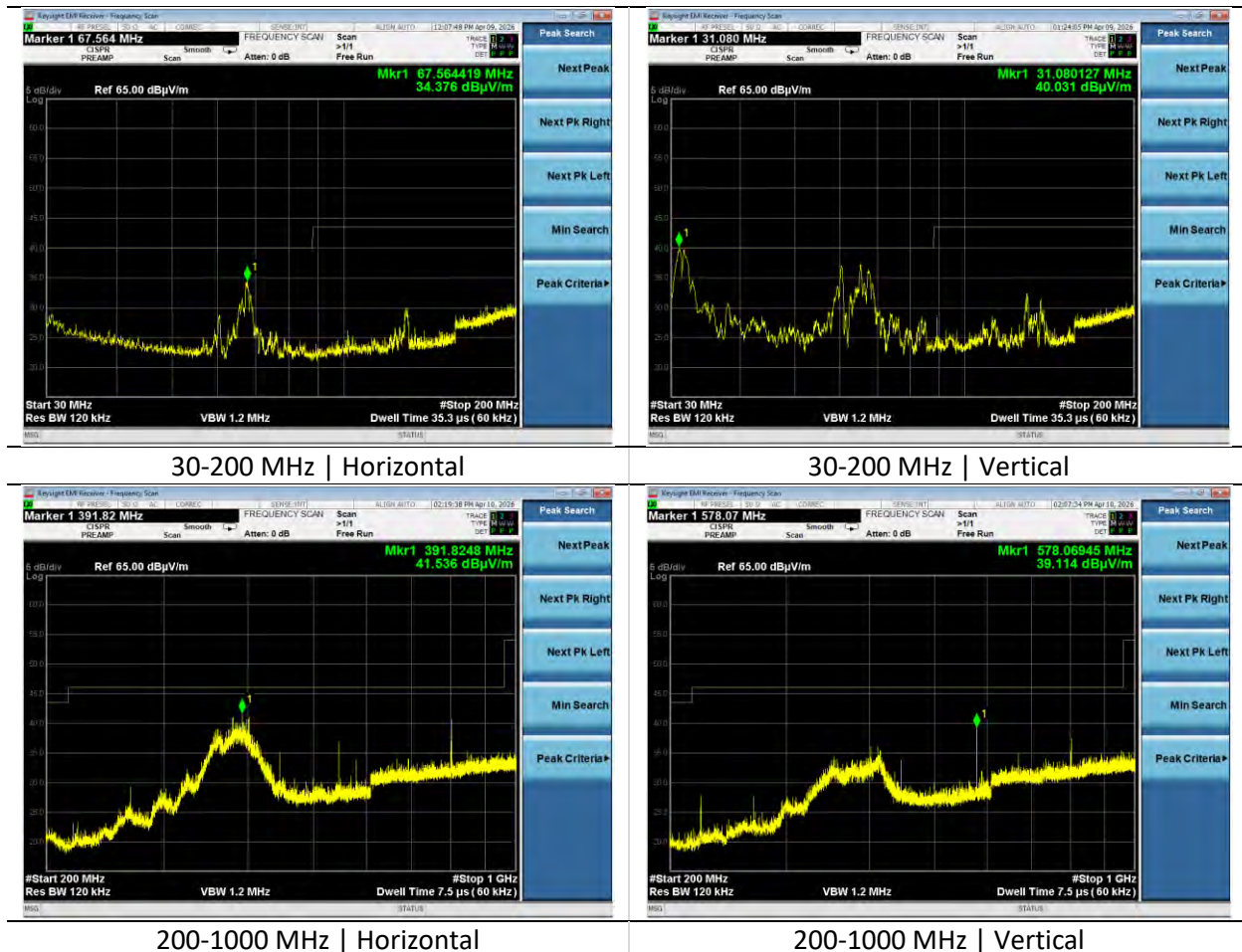
802.11n | Channel 11 | MCS7 |
2483.5-2500 MHz | Average

Spurious Measurements

Mode	Frequency (MHz)	Polarity	Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	Power Setting	Note
802.11b 1Mbps	3968.0	V	52.2	74.0	21.8	Peak	14	NF
	3968.0	V	39.7	54.0	14.3	Average	14	NF
	4264.1	H	55.8	74.0	18.2	Peak	14	
	4263.8	H	44.2	54.0	9.8	Average	14	
	17835.7	H	58.2	74.0	15.8	Peak	14	NF
	17862.0	H	46.6	54.0	7.4	Average	14	NF
	4264.0	V	54.1	74.0	19.9	Peak	14	
	4264.0	V	42.5	54.0	11.5	Average	14	
	7310.2	H	43.9	74.0	30.1	Peak	14	
	7310.2	H	40.8	54.0	13.2	Average	14	
	7309.9	V	56.6	74.0	17.4	Peak	14	
	7310.1	V	40.0	54.0	14.0	Average	14	
	24084.0	V	53.2	74.0	20.8	Peak	14	NF
	24090.3	V	41.5	54.0	12.5	Average	14	NF
	24120.1	H	54.4	74.0	19.6	Peak	14	NF
	24113.0	H	41.7	54.0	12.3	Average	14	NF

NF - Noise Floor

Baseline Plots

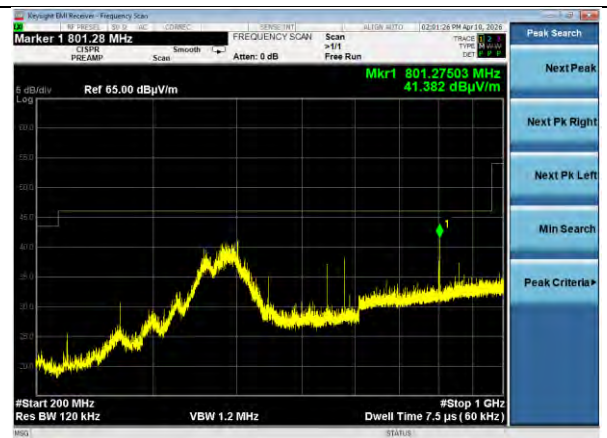


Company: Polaris Industries Inc.	Page 41 of 43	Name: Indian Ride Command
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Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

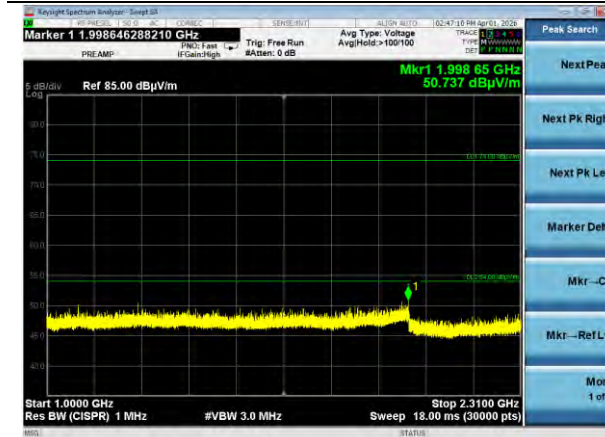
Spurious Plots (Worst Case)



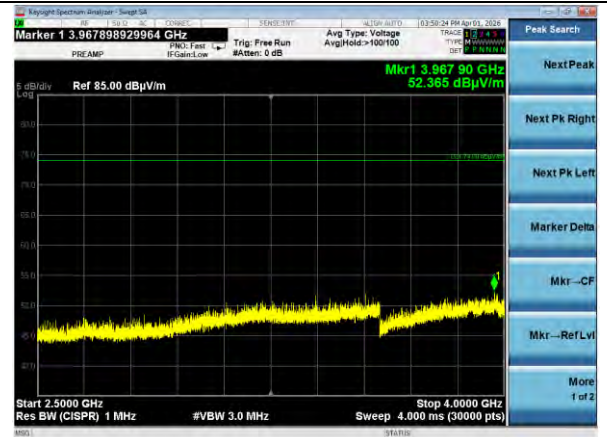
Channel 1 | 1 Mbps | 30-200 MHz | Vertical



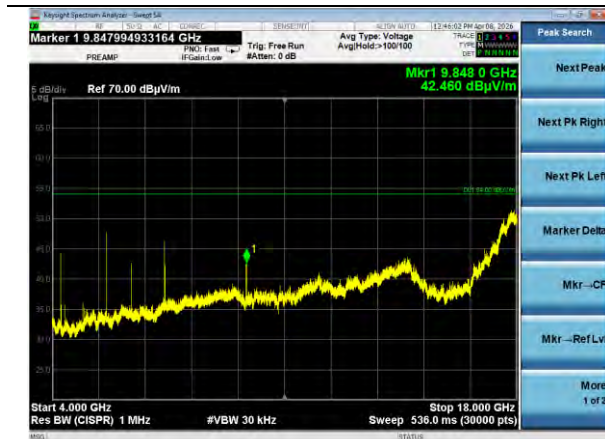
Channel 6 | 1 Mbps | 200-1000 MHz | Horizontal



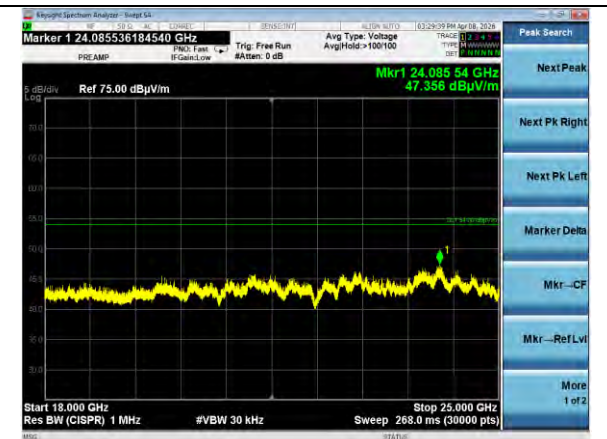
Channel 6 | 1 Mbps | 1000-2310 MHz | Horizontal



Channel 6 | 1 Mbps | 2500-4000 MHz | Vertical



Channel 11 | 1 Mbps | 4-18 GHz | Horizontal



Channel 6 | 1 Mbps | 18-25 GHz | Vertical

Emissions at 4264 MHz and 5645 MHz are not a product of the radio, they do not change with transmit channel

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Quote: NBO-06-2025-008193		Serial: Conducted Sample 1, Radiated Sample 1

6 REVISION HISTORY

Version	Date	Notes	Person
0	04/16/2026	Initial Draft	Dylan Rosenfeldt
1	05/11/2026	Updated layout and formatting, fixed information in section 2	Dylan Rosenfeldt
2	05/13/2026	Added Plots and updated section 2	Dylan Rosenfeldt
3	06/05/2026	Updated company name and address	Dylan Rosenfeldt

END OF REPORT