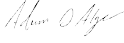


TR3882-2.4G

Equipment Under Test:	Polaris Ride Command
Requirement(s):	eCFR 47 Part 15.247 RSS-247
Test Date(s):	07/07/2025-09/04/2025
Prepared for:	Polaris Industries Inc. Attn: Laura Zehnder 2100 Highway 55 Medina, MN 55340

Report Issued by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 11/21/2025
Report Reviewed by: Adam Alger, Sr. Manager EMC Laboratory	
Signature: 	Date: 09/24/2025
Report Constructed by: Dylan Rosenfeldt, EMC Engineer	
Signature: 	Date: 09/24/2025

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Company: Polaris Industries Inc.	Page 1 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

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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 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

1 TEST REPORT SUMMARY

During **07/07/2025-09/04/2025** the Equipment Under Test (EUT), **Polaris 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 5.5 RSS-GEN Clause 8.10	Spurious Radiated Emissions in Restricted Bands 30-25000 MHz	ANSI C63.10	Yes
15.247(a)(2) RSS-247 Clause 5.2 (a)	6dB and 99% Occupied Bandwidth	ANSI C63.10	Yes
15.247(b)(3) RSS-247 Clause 5.4 (d)	RF Output Power	ANSI C63.10	Yes
15.247(d) RSS-247 Clause 5.5 RSS-GEN A1 Clause 8.9	Out-of-band Emissions	ANSI C63.10	Yes
15.247(e) RSS-247 Clause 5.2 (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 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

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	Polaris Ride Command
Model Number	RCIP-1040
Serial Number	Conducted Sample 1 & 2, Radiated Sample 1 & 2
FCC ID	2A0W7-RCIP-1040V1
IC ID	5966A-RCIP1040V1
Module	Murata LBEE6ZZ1ZD – WLAN, Murata Bluetooth Classic

2.2 Product Description

The Polaris Ride Command RCIP-1040 is an infotainment display. The display supports AM/FM/WB radio, Bluetooth connectivity, Wi-Fi connectivity, vehicle health/performance information, buddy tracking system [V2V] using LoRa Technology, GPS, maps, and camera output.

2.3 Modifications Incorporated for Compliance

None noted at time of test

2.4 Deviations and Exclusions from Test Specifications

EUT and External LoRa/v2v antenna have a minimum distance of 50cm

2.5 EUT Information

Power Supply – 12V Automotive Battery or 13V supplied via Variable Power Supply

Firmware - Compliance HMI v1.5.1 & v1.7.0

Ancillary Equipment

HP Elitebook 840G1

2.6 Antenna Information

Manufacturer	Radio	Model / Part Number	Type	Peak Gain (dBi)	
				900-930 MHz	2400-2500 MHz
Amphenol	LoRa	SAA: SLB608-04-000-C-FD Polaris: 4019300	Coil	1.1	-
F3 Wireless	Infineon BT	-	Trace	-	7.4
F3 Wireless	Murata WLAN	-	Trace	-	4.7
F3 Wireless	Murata BT	-	Trace	-	4.7

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	829
802.11g	20	6 Mbps	11	484
802.11g	20	54 Mbps	11	4032
802.11n	20	MCS0	10	522
802.11n	20	MCS7	10	4384

3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
FCC eCFR 47 Part 15	-	2025	-	-
ANSI C63.10	-	2020	-	-
RSS-247	3	2023	-	-
RSS-GEN	5	2018	2019	2021
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 %

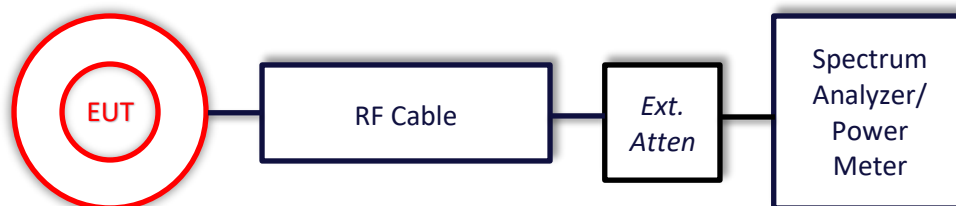
Company: Polaris Industries Inc.	Page 8 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
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5 TEST DATA

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 6dB and 99% Occupied Bandwidth

Operator	Dylan Rosenfeldt	QA	Jon Dilley
Temperature	23.2°C	R.H. %	47.80%
Test Date	7/8/2025	Location	RF Bench
Requirement	15.247 (a)(2) RSS-247 Clause 5.2 (a)	Method	ANSI C63.10 6.9, 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	390 kHz	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	1/28/2025	1/28/2026	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration

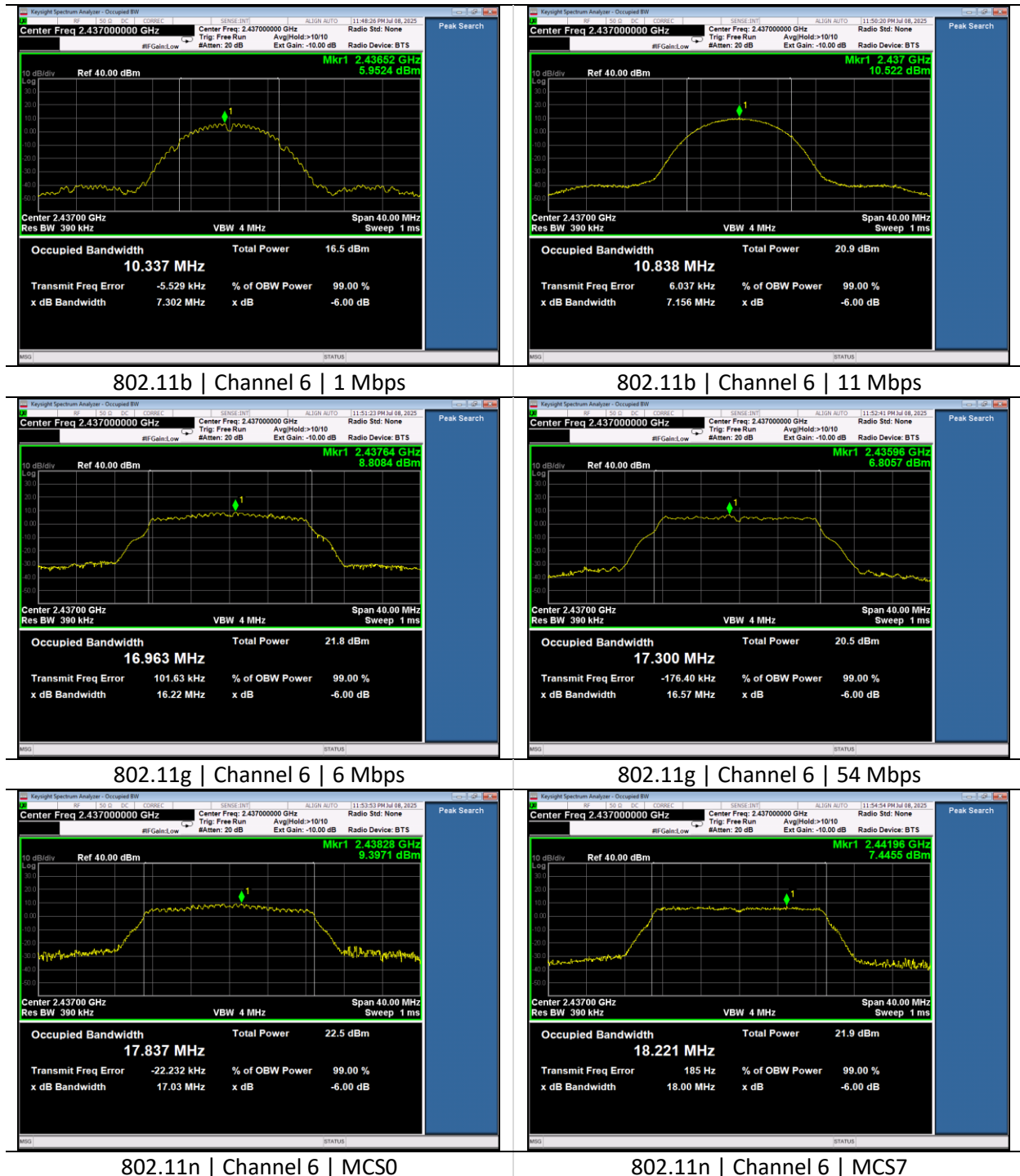
EUT Parameters

Input Power	12VDC	Mode	2.4 GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

Table

Channel	Mode	OBW (MHz)	6dB DTS BW (MHz)
1	802.11b 1M	10.35	7.30
1	802.11b 11M	10.84	7.39
1	802.11g 6M	16.99	16.24
1	802.11g 54M	17.29	16.60
1	802.11n MCS0	17.80	16.75
1	82.11n MCS7	18.23	17.83
6	802.11b 1M	10.34	7.30
6	802.11b 11M	10.84	7.16
6	802.11g 6M	16.96	16.22
6	802.11g 54M	17.30	16.57
6	802.11n MCS0	17.84	17.03
6	82.11n MCS7	18.22	18.00
11	802.11b 1M	10.32	7.30
11	802.11b 11M	10.80	7.63
11	802.11g 6M	16.97	16.25
11	802.11g 54M	17.29	16.60
11	802.11n MCS0	17.82	16.54
11	82.11n MCS7	18.24	17.92

Plots



5.1.2 RF Output Power

Operator	Anthony Smith, Dylan Rosenfeldt	QA	Dylan Rosenfeldt, Anthony Smith
Temperature	22.0°C, 22.7°C	R.H. %	49.1%, 54.8%
Test Date	7/14/2025, 8/21/2025	Location	RF Bench
Requirement	15.247 (b)(3) RSS-247 Clause 5.4 (d)	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	1/28/2025	1/28/2026	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration

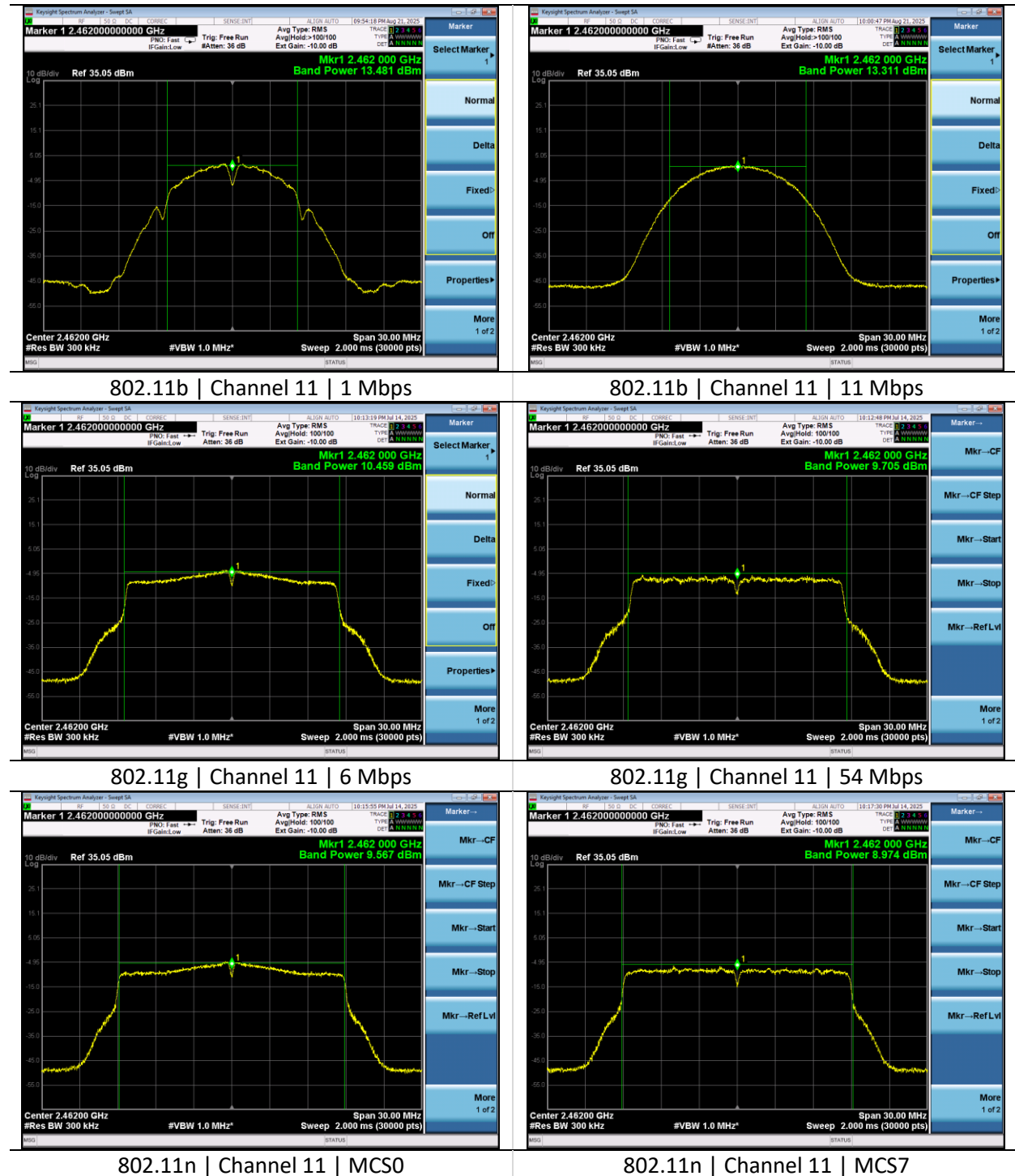
EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	2.4 GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

Tables

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	13.4	0.0	13.4	30	16.6	14
11	802.11b 1M	13.5	0.0	13.5	30	16.5	14
1	802.11b 11M	12.9	0.1	13.0	30	17.0	14
6	802.11b 11M	13.3	0.1	13.4	30	16.6	14
11	802.11b 11M	13.3	0.1	13.4	30	16.6	14
1	802.11g 6M	10.4	0.0	10.4	30	19.6	11
6	802.11g 6M	10.5	0.0	10.5	30	19.5	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	9.7	0.4	10.1	30	19.9	11
11	802.11g 54M	9.7	0.4	10.1	30	19.9	11
1	802.11n MCS0	9.5	0.1	9.6	30	20.4	10
6	802.11n MCS0	9.6	0.1	9.7	30	20.3	10
11	802.11n MCS0	9.6	0.1	9.7	30	20.3	10
1	802.11n MCS7	8.7	0.4	9.1	30	20.9	10
6	802.11n MCS7	8.9	0.4	9.3	30	20.7	10
11	802.11n MCS7	9.0	0.4	9.4	30	20.6	10

Plots



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Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

5.1.3 Power Spectral Density

Operator	Anthony Smith, Dylan Rosenfeldt	QA	Dylan Rosenfeldt, Anthony Smith
Temperature	22.0°C, 22.7°C	R.H. %	49.1%, 54.8%
Test Date	7/14/2025, 8/21/2025	Location	RF Bench
Requirement	15.247 (e) RSS-247 Clause 5.2 (b)	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	1/28/2025	1/28/2026	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration

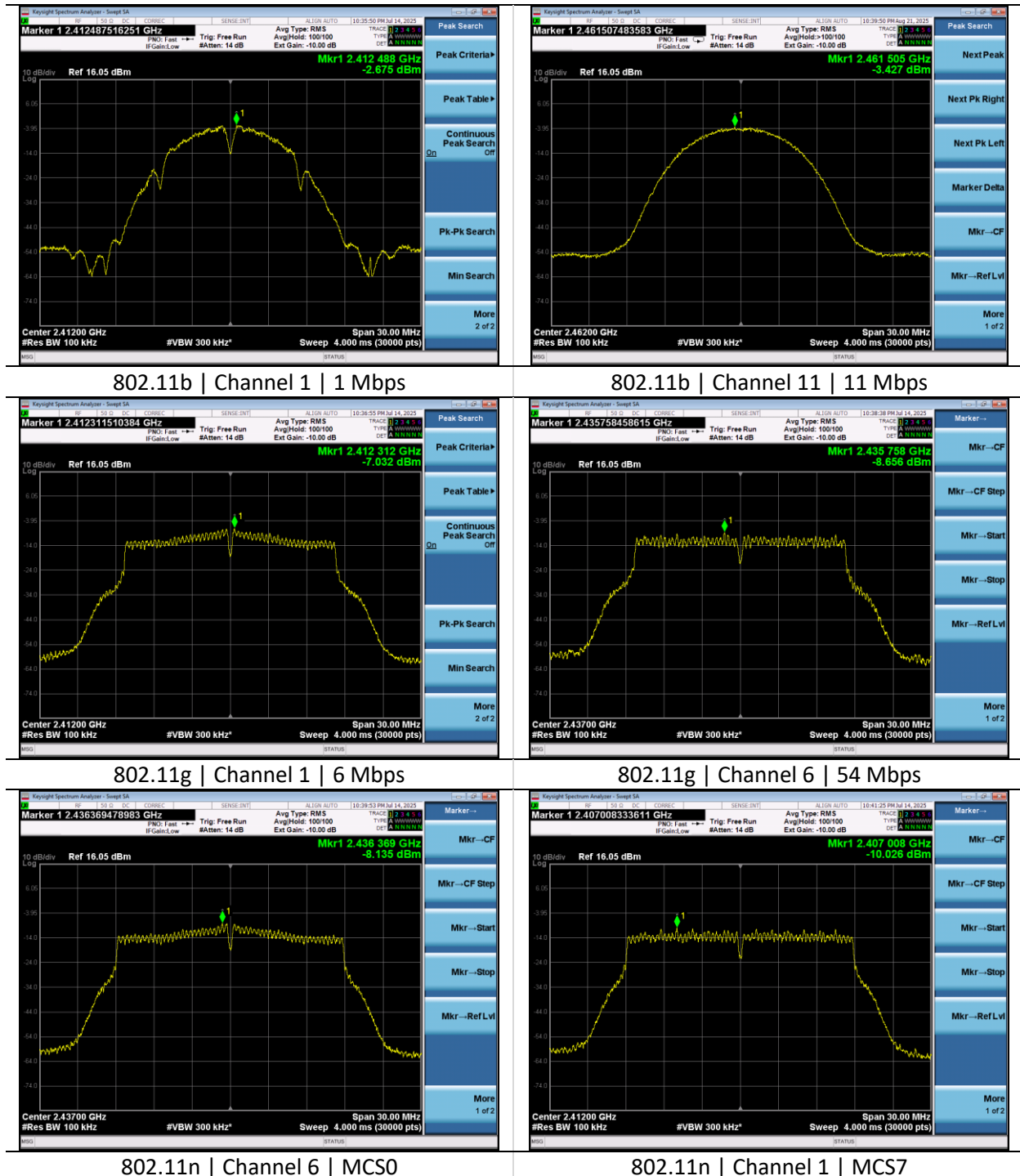
EUT Parameters

Input Power	120 VAC @ 60 Hz	Mode	2.4 GHz 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	-2.7	0.0	-2.7	8.0	10.7	14
6	802.11b 1M	-2.8	0.0	-2.8	8.0	10.8	14
11	802.11b 1M	-2.8	0.0	-2.8	8.0	10.8	14
1	802.11b 11M	-3.5	0.1	-3.4	8.0	11.4	14
6	802.11b 11M	-3.6	0.1	-3.5	8.0	11.5	14
11	802.11b 11M	-3.4	0.1	-3.3	8.0	11.3	14
1	802.11g 6M	-7.0	0.0	-7.0	8.0	15.0	11
6	802.11g 6M	-7.2	0.0	-7.2	8.0	15.2	11
11	802.11g 6M	-7.0	0.0	-7.0	8.0	15.0	11
1	802.11g 54M	-9.4	0.4	-9.0	8.0	17.0	11
6	802.11g 54M	-8.7	0.4	-8.3	8.0	16.3	11
11	802.11g 54M	-8.9	0.4	-8.5	8.0	16.5	11
1	802.11n MCS0	-8.3	0.1	-8.2	8.0	16.2	10
6	802.11n MCS0	-8.1	0.1	-8.0	8.0	16.0	10
11	802.11n MCS0	-8.2	0.1	-8.1	8.0	16.1	10
1	802.11n MCS7	-10.0	0.4	-9.6	8.0	17.6	10
6	802.11n MCS7	-10.1	0.4	-9.7	8.0	17.7	10
11	802.11n MCS7	-10.3	0.4	-9.9	8.0	17.9	10

Plots



Company: Polaris Industries Inc.	Page 18 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

5.1.4 Emissions in Non-Restricted Frequency Bands

Operator	Anthony Smith, Dylan Rosenfeldt	QA	Dylan Rosenfeldt, Anthony Smith
Temperature	22.0°C, 22.7°C	R.H. %	49.1%, 54.3%
Test Date	7/14/2025, 8/21/2025	Location	RF Bench
Requirement	15.247(d) RSS-247 Clause 5.5	Method	ANSI C63.10 11.11

Limits: -30dBc

Reference Level (Worst Case PSD)

Channel 1 – 1 Mbps – 5.3 dBm/100 kHz

5.3 dBm-30 dB = -24.7 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	1/28/2025	1/28/2026	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration

EUT Parameters

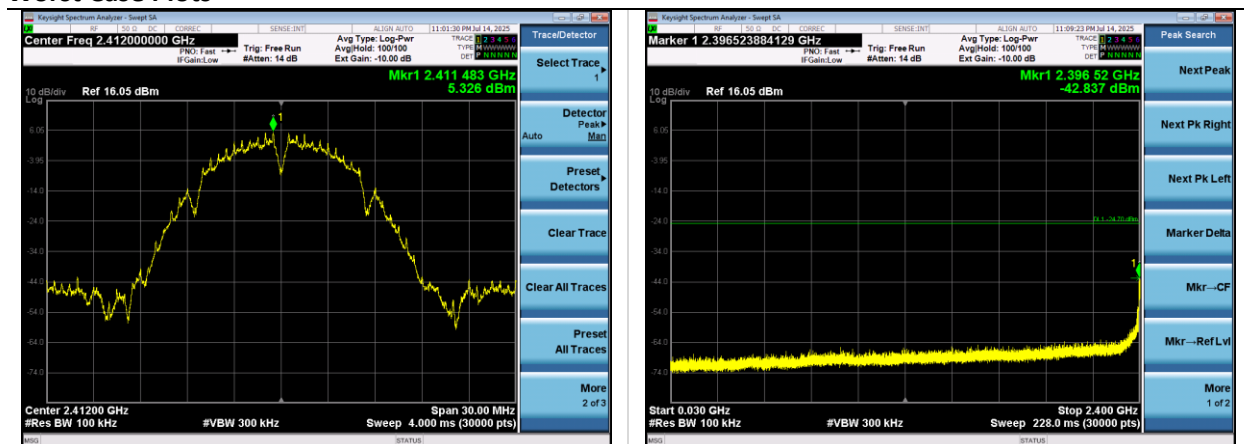
Input Power	120 VAC @ 60 Hz	Mode	2.4 GHz WLAN Tx
Frequency	2400-2483.5 MHz	Channel	See 2.7

Company: Polaris Industries Inc.	Page 19 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
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Measurements

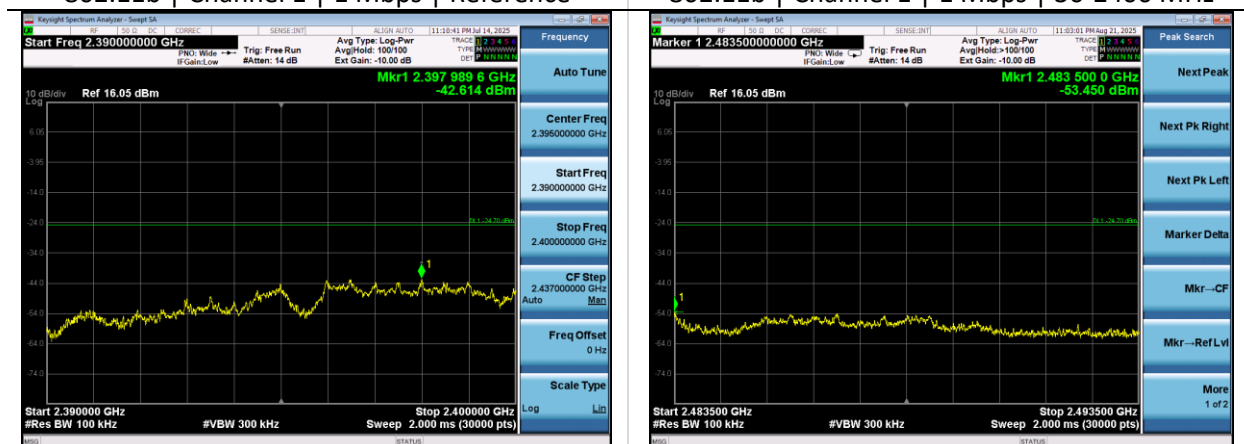
Channel	Mode	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Margin (dB)	pwr setting
1	1M	2398.0	-42.6	-24.7	17.9	14
1	1M	7236.9	-52.8	-24.7	28.1	14
1	11M	2396.4	-42.7	-24.7	18.0	14
1	11M	7236.1	-53.4	-24.7	28.7	14
6	1M	7310.5	-50.5	-24.7	25.8	14
11	1M	2483.5	-53.5	-24.7	28.8	14
11	11M	7386.5	-51.4	-24.7	26.7	14
1	6M	2400.0	-45.0	-24.7	20.3	11
11	6M	2483.9	-53.7	-24.7	29.0	11
1	54M	2400.0	-45.6	-24.7	20.9	11
11	54M	2483.7	-53.6	-24.7	28.9	11
1	MCS0	2399.8	-45.8	-24.7	21.1	10
11	MCS0	2485.7	-54.2	-24.7	29.5	10
1	MCS7	2400.0	-46.5	-24.7	21.8	10
11	MCS7	2487.0	-55.0	-24.7	30.3	10

Worst Case Plots



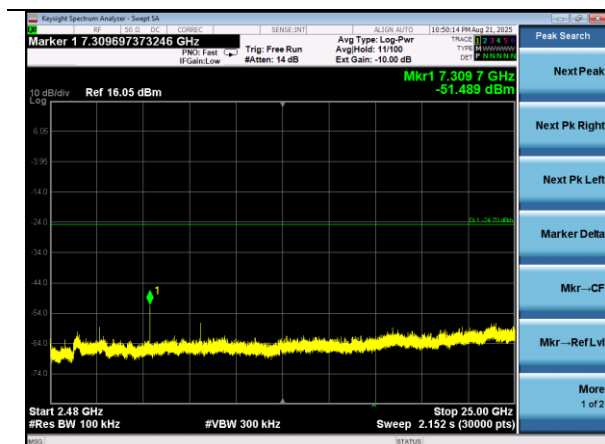
802.11b | Channel 1 | 1 Mbps | Reference

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



802.11b | Channel 1 | 1 Mbps | 2390-2400 MHz

802.11b | Channel 1 | 1 Mbps | 2483.5-2493.5 MHz



802.11b | Channel 6 | 1 Mbps | 2483.5-25000 MHz

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Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

5.1.5 Frequency Stability

Operator	Dylan Rosenfeldt	QA	Anthony Smith
Temperature	22.3°C	R.H. %	54.1%
Test Date	8/25/2025	Location	Conducted RF Bench
Requirement	2.1055(d) RSS-GEN Clause 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
Notes	DC power supply used for voltage variation.		

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960172	Cable	A.H. Systems, Inc.	SAC-26G-1	387	1/28/2025	1/28/2026	Active Verification
EE 960087	Analyzer - Spectrum	Agilent	N9010A	MY53400296	6/1/2025	6/1/2026	Active Calibration

Table

Channel	Voltage (VDC)	Center Frequency (Hz)
1	12.0	2411997677
	13.8	2411996425
	10.2	2411995609
6	12.0	2436993757
	13.8	2436994211
	10.2	2436995242
11	12.0	2461994337
	13.8	2461993370
	10.2	2461993018

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	Jon Dille, Dylan Rosenfeldt	QA	Dylan Rosenfeldt, Anthony Smith
Temperature	23.3°C, 21.8°C	R.H. %	48.0%, 49.6%
Test Date	7/7/2025, 9/4/2025	Location	Chamber 5
Requirement	15.247 (d) 15.209 RSS-247 Clause 5.5 RSS-GEN Clause 8.10	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 Peak and Average 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

Instrumentation

Asset #	Description	Manufacturer	Model #	Serial #	Date	Due Date	Status
AA 960081	Antenna - Double Ridge Horn	EMCO	3115	6907	1/8/2025	1/8/2026	Active Calibration
AA 960210	Antenna - Low Noise Amplifier	Mini-Circuits	ZVA-213X-S+	037101808	1/8/2025	1/8/2026	Active Calibration
AA 960194	Antenna - Biconical	A.H. Systems, Inc.	SAS-540	780	12/9/2024	12/9/2025	Active Calibration
AA 960195	Antenna - Log Periodic	A.H. Systems, Inc.	SAS-512-2	557	11/22/2024	11/23/2025	Active Calibration
LSC-500	Cable	Chamber 5 Emissions	-	-	1/27/2025	1/27/2026	Active Verification
AA 960154	Filter - High Pass 2.4 GHz	KWM	HPF-L-14186	7272-02	4/3/2025	4/3/2026	Active Calibration
AA 960174	Antenna - Small Horn	ETS Lindgren	3116C-PA	00206880	12/2/2024	12/2/2025	Active Calibration
AA 960220	Cable	A.H. Systems, Inc.	SAC-26G-6	552	1/28/2025	1/28/2026	Active Verification
EE 960085	Analyzer - EMI Receiver	Agilent	N9038A	MY51210148	4/3/2025	4/3/2026	Active Calibration

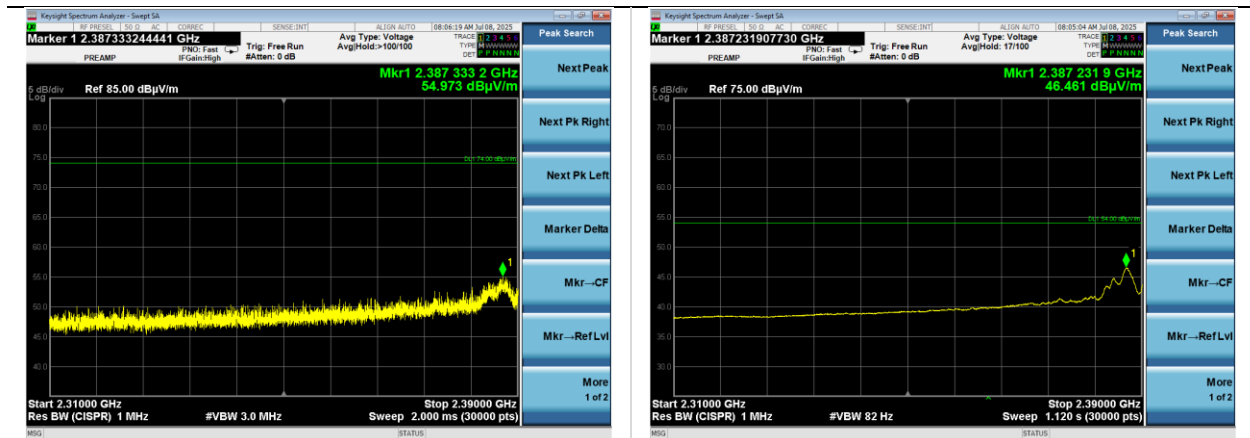
EUT Parameters

Input Power	12VDC Battery	Mode	2.4 GHz WLAN Tx
AE	Cameras, AM/FM Antenna, USB cable	Channels	See 2.7
Notes	50cm separation distance between EUT and GPS/v2v antenna in spurious harmonic range		

Band Edge Measurements

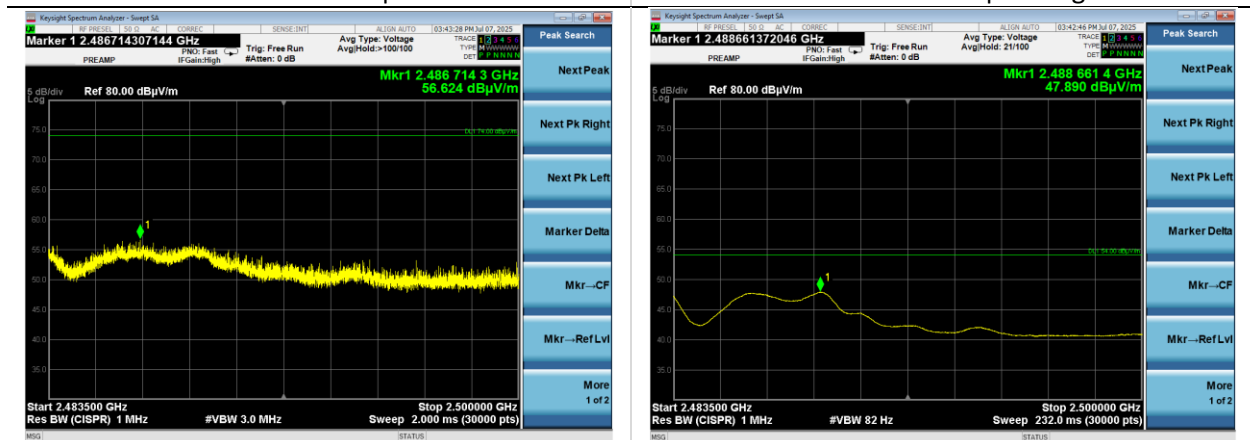
Mode	Frequency (MHz)	Polarity	Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	Power Setting	Channel
802.11b 1Mbps	2387.3	Vertical	55.0	74.0	19.0	Pk	14	1
	2387.2	Vertical	46.5	54.0	7.5	Avg	14	1
	2486.7	Vertical	56.6	74.0	17.4	Pk	14	11
	2488.7	Vertical	47.9	54.0	6.1	Avg	14	11
802.11b 11Mbps	2388.3	Vertical	55.1	74.0	18.9	Pk	14	1
	2390.0	Vertical	44.7	54.0	9.3	Avg	14	1
	2483.6	Vertical	54.9	74.0	19.1	Pk	14	11
	2483.5	Vertical	45.1	54.0	8.9	Avg	14	11
802.11g 6Mbps	2389.9	Vertical	62.9	74.0	11.1	Pk	11	1
	2389.8	Vertical	48.0	54.0	6.0	Avg	11	1
	2484.7	Vertical	59.6	74.0	14.4	Pk	11	11
	2483.9	Vertical	45.9	54.0	8.1	Avg	11	11
802.11g 54Mbps	2389.5	Vertical	60.1	74.0	13.9	Pk	11	1
	2389.7	Vertical	48.7	54.0	5.3	Avg	11	1
	2483.6	Vertical	57.8	74.0	16.2	Pk	11	11
	2483.7	Vertical	46.8	54.0	7.2	Avg	11	11
802.11n MCS0	2389.3	Vertical	64.7	74.0	9.3	Pk	11	1
	2389.9	Vertical	47.4	54.0	6.6	Avg	11	1
	2484.4	Vertical	65.3	74.0	8.7	Pk	11	11
	2483.6	Vertical	45.6	54.0	8.4	Avg	11	11
802.11n MCS7	2388.3	Vertical	59.9	74.0	14.1	Pk	10	1
	2389.4	Vertical	48.8	54.0	5.2	Avg	10	1
	2486.4	Vertical	61.1	74.0	12.9	Pk	11	11
	2483.7	Vertical	47.4	54.0	6.6	Avg	11	11

Band Edge Plots



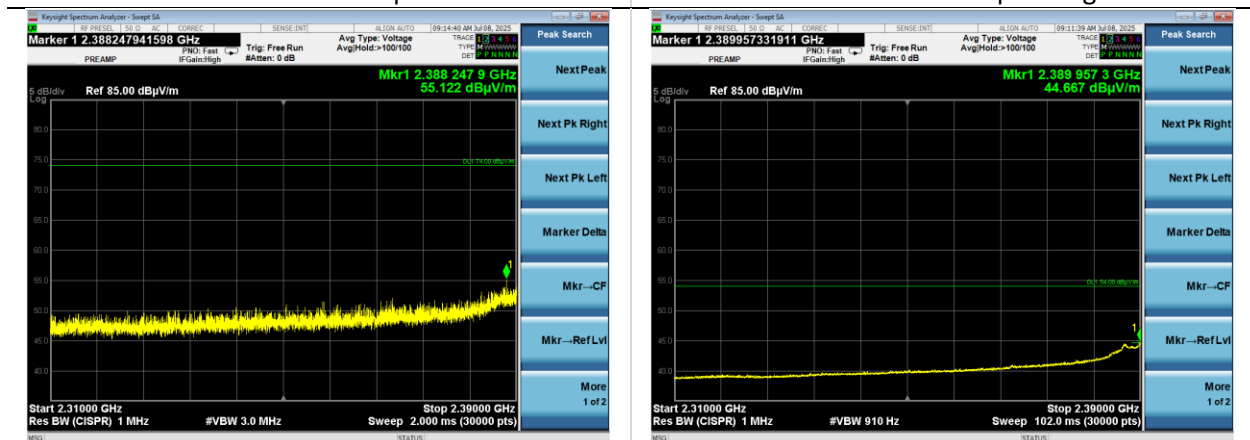
802.11b | Channel 1 | 1 Mbps |
2310-2390 MHz | Peak

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



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

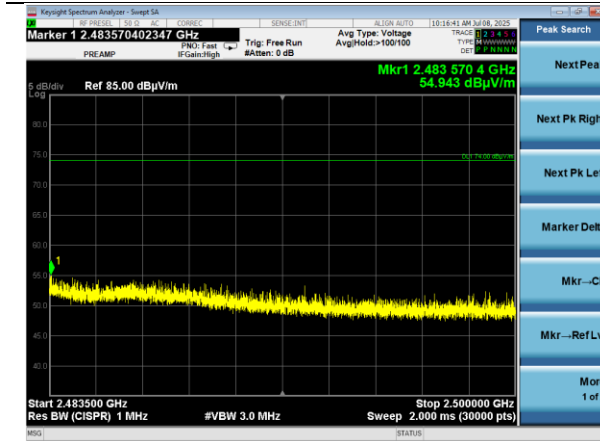
802.11b | Channel 11 | 1 Mbps |
2483.5-2500 MHz | Average



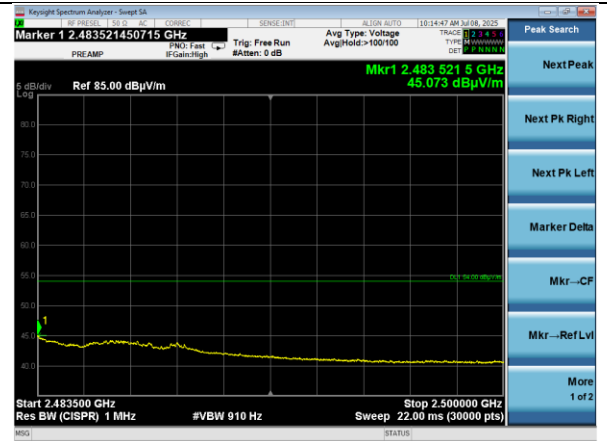
802.11b | Channel 1 | 11 Mbps |
2310-2390 MHz | Peak

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

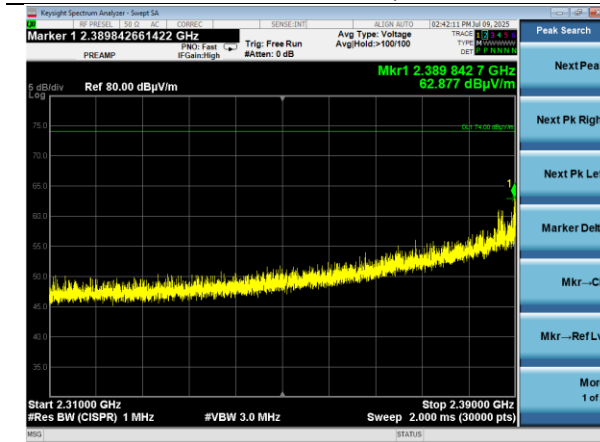
Company: Polaris Industries Inc.	Page 27 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2



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



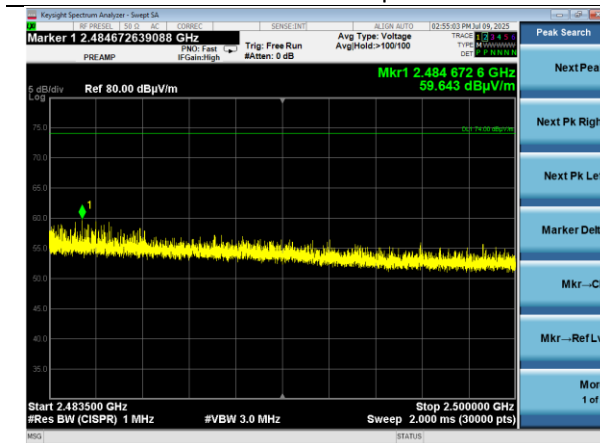
802.11b | Channel 11 | 11 Mbps |
2483.5-2500 MHz | Average



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



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

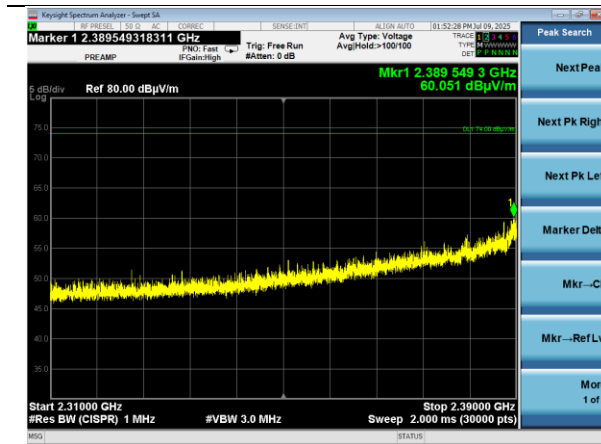


802.11g | Channel 11 | 6 Mbps |
2483.5-2500 MHz | Peak



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

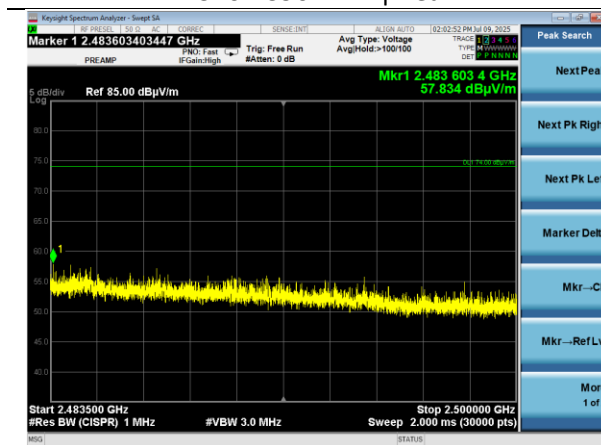
Company: Polaris Industries Inc.	Page 28 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2



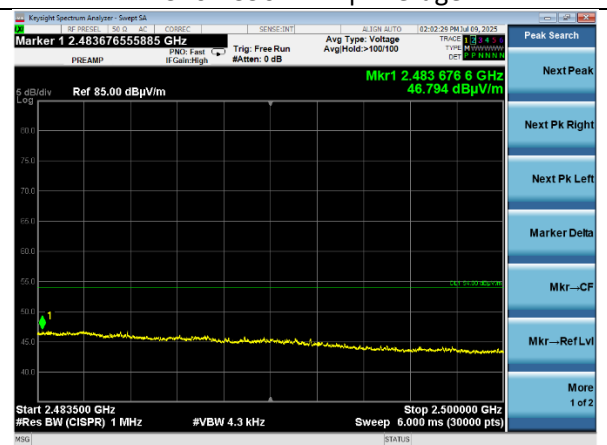
802.11g | Channel 1 | 54 Mbps |
2310-2390 MHz | Peak



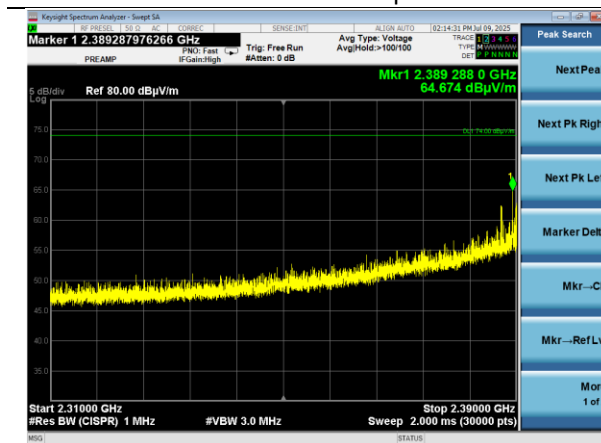
802.11g | Channel 1 | 54 Mbps |
2310-2390 MHz | Average



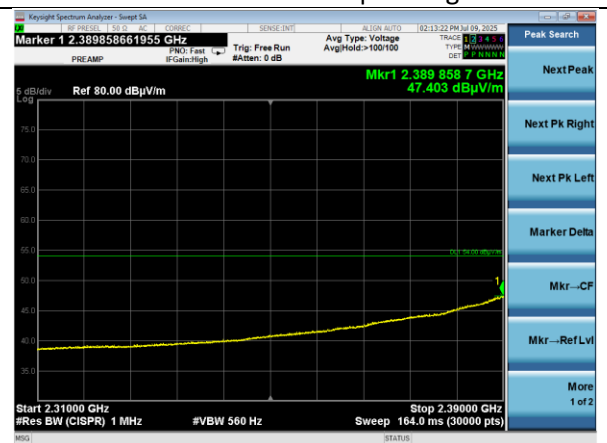
802.11g | Channel 11 | 54 Mbps |
2483.5-2500 MHz | Peak



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

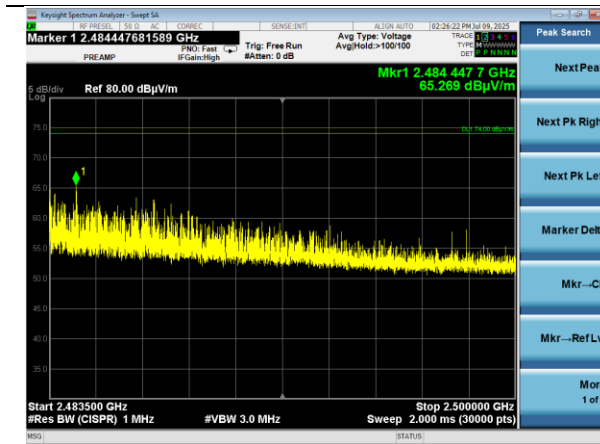


802.11n | Channel 1 | MCS0 |
2310-2390 MHz | Peak



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

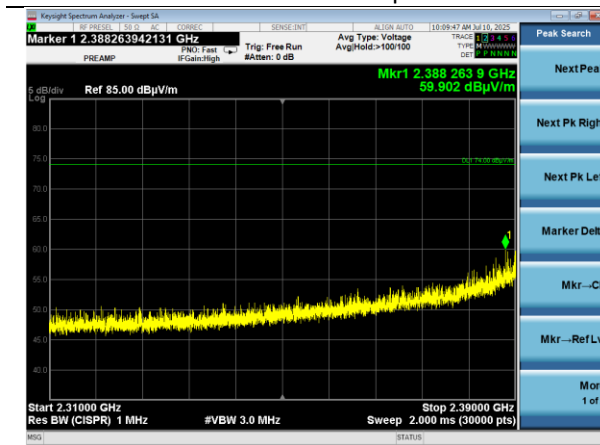
Company: Polaris Industries Inc.	Page 29 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2



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



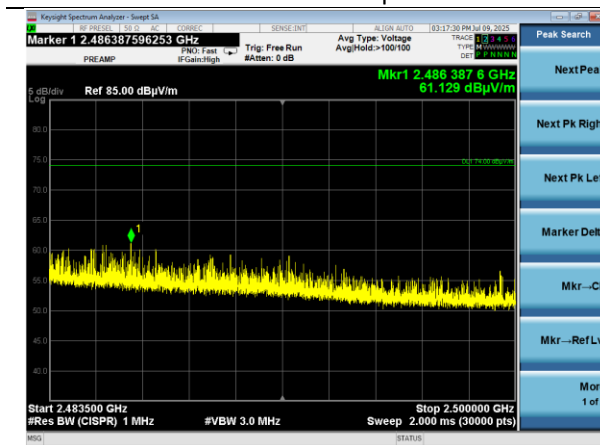
802.11n | Channel 11 | MCS0 |
2483.5-2500 MHz | Average



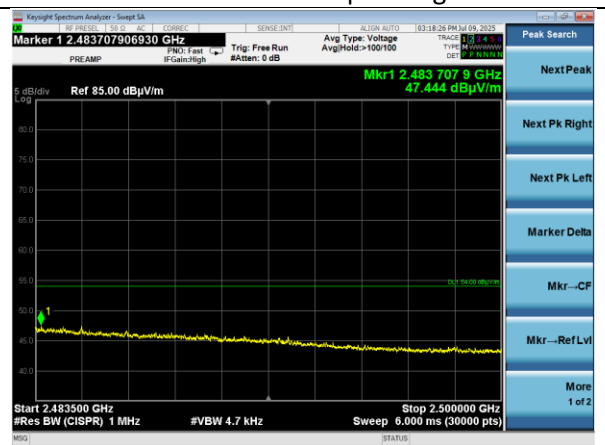
802.11n | Channel 1 | MCS7 |
2310-2390 MHz | Peak



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



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



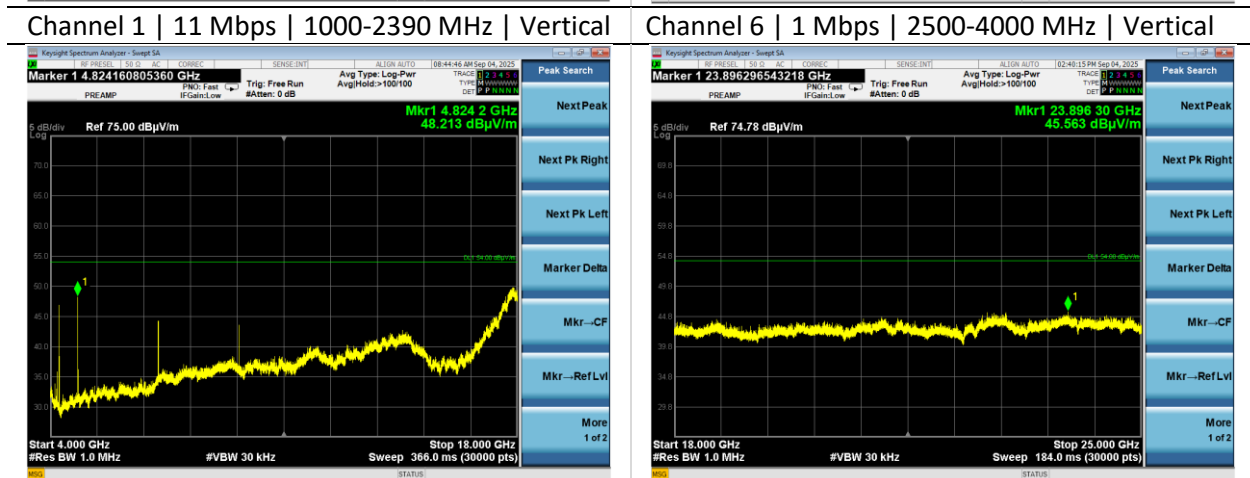
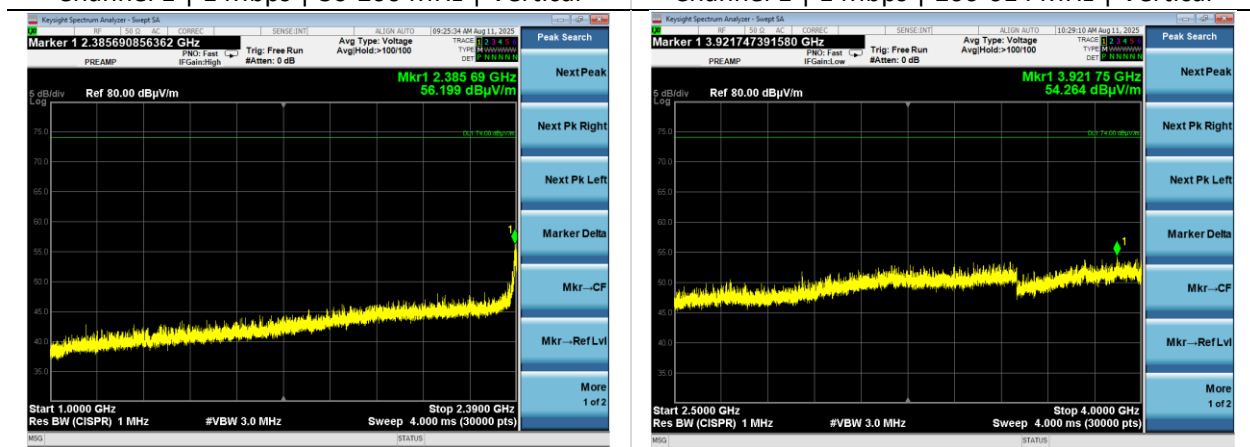
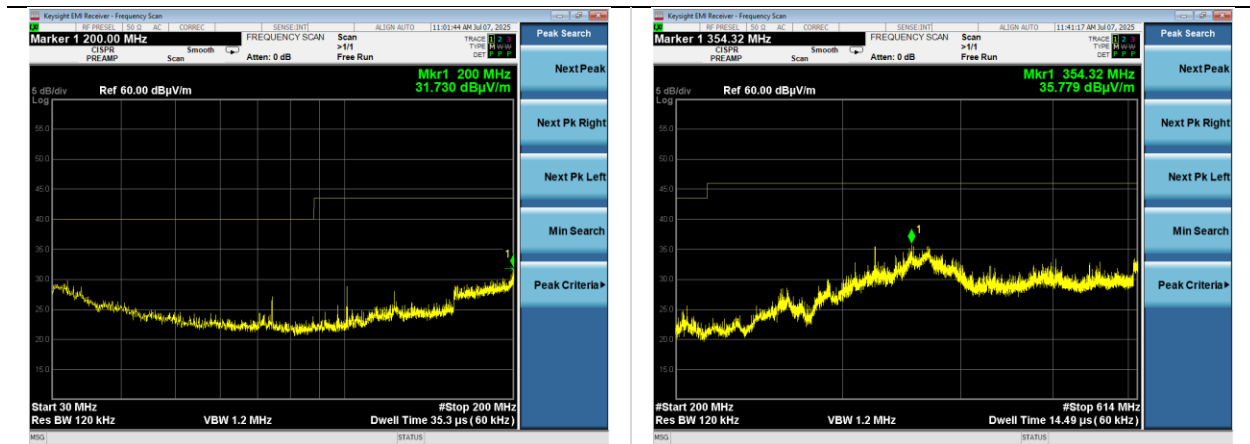
802.11n | Channel 11 | MCS7 |
2483.5-2500 MHz | Average

Company: Polaris Industries Inc.	Page 30 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

Spurious Measurements

Mode	Frequency (MHz)	Polarity	Reading (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Measurement	Power Setting	Channel
802.11b 1Mbps	4824.0	V	51.0	74.0	23.0	pk	14	1
	4824.0	V	48.1	54.0	5.9	avg	14	1
	7237.6	V	50.0	74.0	24.0	pk	14	1
	7235.2	V	42.4	54.0	11.6	avg	14	1
	4824.0	H	47.0	74.0	27.0	pk	14	1
	4824.0	H	41.9	54.0	12.1	avg	14	1
	7310.9	H	49.9	74.0	24.1	pk	14	6
	7310.2	H	41.7	54.0	12.3	avg	14	6
	7312.6	V	50.1	74.0	23.9	pk	14	6
	7310.2	V	42.6	54.0	11.4	avg	14	6
	7384.5	V	49.3	74.0	24.7	pk	14	11
	7385.2	V	40.5	54.0	13.5	avg	14	11

Spurious Plots



Channel 1 | 1 Mbps | 4-18 GHz | Vertical

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

Company: Polaris Industries Inc.	Page 32 of 33	Name: Polaris Ride Command
Report: TR3882-2.4G		Model: RCIP-1040
Quote: NBO-01-2024-006931		Serial: Conducted Sample 1&2, Radiated Sample 1 & 2

6 REVISION HISTORY

Version	Date	Notes	Person
0	9/11/2025	Initial Draft	Dylan Rosenfeldt
1	9/24/2025	Updated Draft	Dylan Rosenfeldt
2	9/29/2025	Final Draft	Dylan Rosenfeldt
3	10/28/2025	Updated Footer	Dylan Rosenfeldt
4	11/21/2025	Updated Customer Address and added modules to section 2	Dylan Rosenfeldt

END OF REPORT