

ROYAL BANK OF CANADA  
 Form FWP  
 October 23, 2018

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 Rule 433  
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Free Writing Prospectus  
 (To the Prospectus dated September 7, 2018, the Prospectus Supplement dated September 7, 2018, and the Product Prospectus Supplement dated September 10, 2018)

\$  
 Phoenix Autocallable Notes with Memory Coupon due November 14, 2019  
 Linked to the Common Stock of Broadcom Inc.  
 Royal Bank of Canada Senior Global Medium-Term Notes, Series H

**General**

The Notes are designed for investors who wish to receive Contingent Coupons (as defined below) if (i) on any of the Observation Dates (other than the final Observation Date), the closing price of the common stock of Broadcom Inc. (the “Reference Stock”) or (ii) with respect to the final Observation Date, the Final Stock Price (as defined below) is at or above the Coupon Barrier (as defined below). Investors should be willing to forgo fixed interest and dividend payments, in exchange for the opportunity to receive a Contingent Coupon for each Observation Date. Due to the memory feature described below, a Contingent Coupon that is not payable on a Coupon Payment Date may be paid on a subsequent Coupon Payment Date or at maturity.

Investors in the Notes should be willing to accept the risk of losing some or all of their principal and the risk that no Contingent Coupon payment may be made with respect to some or all of the Observation Dates. Contingent Coupon payments should not be viewed as periodic interest payments.

The Notes are subject to automatic call if the closing price of the Reference Stock on any Observation Date (other than the final Observation Date) is at or above the Initial Stock Price. If the Notes are not automatically called and the Final Stock Price is below the Trigger Price (as defined below), investors will be fully exposed to the depreciation in the Reference Stock. Investors in the Notes should be willing to accept this risk of loss. All payments on the Notes are subject to our credit risk.

Senior unsecured obligations of Royal Bank of Canada maturing November 14, 2019.<sup>(a)(b)</sup>

Minimum denominations of \$10,000 and integral multiples of \$1,000 in excess thereof.

The Notes are expected to price on or about October 26, 2018<sup>(b)</sup> (the “trade date”) and are expected to be issued on or about October 31, 2018<sup>(b)</sup> (the “issue date”).

**Key Terms** Terms used in this free writing prospectus, but not defined herein, shall have the meanings ascribed to them in the product prospectus supplement.

**Issuer:** Royal Bank of Canada

**Reference Stock:** The common stock of Broadcom Inc. (Bloomberg symbol: “AVGO”)

**Observation Dates:** February 7, 2019, May 9, 2019, August 8, 2019 and November 8, 2019<sup>(a)(b)</sup>

**Coupon Payment Dates:** Three business days following each Observation Date, except that the final Coupon Payment Date will be the maturity date.

**Contingent Coupons and Memory Feature:** The Contingent Coupon will be paid on each Coupon Payment Date if (i) the closing price of the Reference Stock on the applicable Observation Date (other than the final Observation Date) or (ii) with respect to the final Observation Date, the Final Stock Price is at or above the Coupon Barrier. If the Contingent Coupon is not payable on any Coupon Payment Date, it will be paid on any later Coupon Payment Date (or at maturity) on which the Contingent Coupon is payable, together with the payment otherwise due on that later date. For the avoidance of doubt, once a previously unpaid Contingent Coupon has been paid on a later Coupon Payment Date, it will not be paid again on a subsequent date.

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Contingent Coupon: \$25.00 per \$1,000 in principal amount of the Notes, if payable.

Coupon Barrier: 61.10% of the Initial Stock Price

Call Feature: If the closing price of the Reference Stock on any Observation Date (other than the final Observation Date) is at or above the Initial Stock Price, the Notes will be automatically called for a cash payment equal to the principal amount plus the applicable Contingent Coupon for the applicable Observation Date, together with any previously unpaid Contingent Coupons.

Call Settlement Dates: The Coupon Payment Date corresponding to the applicable Observation Date.

Trigger Price: 61.10% of the Initial Stock Price

Payment at Maturity: If the Notes are not called and on the final Observation Date:

- the Final Stock Price is at or above the Trigger Price, then you will receive a cash amount equal to the principal amount plus the Contingent Coupon otherwise due on the maturity date and any previously unpaid Contingent Coupons with respect to the prior Coupon Payment Dates; or
- the Final Stock Price is below the Trigger Price, then you will receive a cash amount equal to the principal amount x (1 + the Underlying Return). In this case, you will have a loss of principal that is proportionate to the decline in the Final Stock Price from the Initial Stock Price and you will lose some or all of your initial investment.

Underlying Return: Final Stock Price - Initial Stock Price  
Initial Stock Price

Initial Stock Price: The closing price of one share of the Reference Stock on the trade date.

Final Stock Price: The arithmetic average of the closing prices of one share of the Reference Stock on each of the Valuation Dates.

Valuation Dates: November 4, 2019, November 5, 2019, November 6, 2019, November 7, 2019 and the final Observation Date<sup>(a)(b)</sup>

Maturity Date: November 14, 2019<sup>(a)(b)</sup>

CUSIP/ISIN: 78013GHC2/ US78013GHC24

Estimated Value: The initial estimated value of the Notes as of the date of this document is \$984.48 per \$1,000 in principal amount, which is less than the price to public. The pricing supplement relating to the Notes will set forth our estimate of the initial value of the Notes as of the trade date, which will not be more than \$20 less than this amount. The actual value of the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount.

<sup>(a)</sup> Subject to postponement if a market disruption event occurs, as described under “General Terms of the Notes—Payment at Maturity” and “—Market Disruption Events” in the product prospectus supplement.

<sup>(b)</sup> Expected. In the event we make any change to the expected trade date and issue date, the Observation Dates, the Valuation Dates and the maturity date will be changed so that the stated term of the Notes remains the same.

Investing in the Notes involves a number of risks. See “Risk Factors” beginning on page PS-5 of the product prospectus supplement, “Risk Factors” beginning on page S-1 of the prospectus supplement and beginning on page 1 of the prospectus and “Selected Risk Considerations” beginning on page FWP-5 of this free writing prospectus.

The Notes will not be listed on any U.S. securities exchange or quotation system. Neither the U.S. Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined that this free writing prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The Notes will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. government agency or instrumentality. The Notes are not subject to conversion into our common shares under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act.

	Price to Public <sup>1</sup>	Underwriting Commission <sup>2</sup>	Proceeds to Royal Bank of Canada
Per Note \$1,000	\$10		\$990

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Total      \$                      \$                      \$

<sup>1</sup> Certain fiduciary accounts purchasing the Notes will pay a purchase price of \$990 per Note, and the placement agents will forgo any fees with respect to sales made to those accounts. The price to the public for all other purchases of the Notes is 100%.

<sup>2</sup> JPMorgan Chase Bank, N.A., J.P. Morgan Securities LLC and their affiliates will act as placement agents for the Notes and will receive a fee from the Issuer that will not exceed \$10 per \$1,000 in principal amount of the Notes, but will forgo any fees for sales to certain fiduciary accounts.

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Royal Bank of Canada has filed a registration statement (including a product prospectus supplement, a prospectus supplement, and a prospectus) with the SEC for the offering to which this free writing prospectus relates. Before you invest, you should read those documents and the other documents relating to this offering that we have filed with the SEC for more complete information about us and this offering. You may obtain these documents without cost by visiting EDGAR on the SEC website at [www.sec.gov](http://www.sec.gov). Alternatively, Royal Bank of Canada, any agent or any dealer participating in this offering will arrange to send you the product prospectus supplement, the prospectus supplement and the prospectus if you so request by calling toll-free at 1-877-688-2301.

You may revoke your offer to purchase the Notes at any time prior to the pricing as described on the cover of this free writing prospectus. We reserve the right to change the terms of, or reject any offer to purchase the Notes prior to their issuance. In the event of any changes to the terms of the Notes, we will notify you and you will be asked to accept such changes in connection with your purchase. You may also choose to reject such changes, in which case we may reject your offer to purchase.

#### ADDITIONAL TERMS OF THE NOTES

You should read this free writing prospectus together with the prospectus dated September 7, 2018, as supplemented by the prospectus supplement dated September 7, 2018 and the product prospectus supplement dated September 10, 2018, relating to our Senior Global Medium-Term Notes, Series H, of which these Notes are a part. Capitalized terms used but not defined in this free writing prospectus will have the meanings given to them in the product prospectus supplement. In the event of any conflict, this free writing prospectus will control. You should read this free writing prospectus carefully.

This free writing prospectus, together with the documents listed below, contains the terms of the Notes and supersedes all prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the prospectus supplement dated September 7, 2018 and “Risk Factors” in the product prospectus supplement dated September 10, 2018, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes. You may access these documents on the Securities and Exchange Commission (the “SEC”) website at [www.sec.gov](http://www.sec.gov) as follows (or if that address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465918005973/196181424b3.htm>

Prospectus Supplement dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465918005975/f97180424b3.htm>

Product Prospectus Supplement CCBN-1 dated September 10, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000114036118038091/form424b5.htm>

Our Central Index Key, or CIK, on the SEC website is 1000275. As used in this free writing prospectus, “Royal Bank”, “we,” “us,” or “our” refers to Royal Bank of Canada.

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What Is the Return on the Notes Assuming a Range of Performance for the Reference Stock?

The following table illustrates hypothetical payments on the Notes that could be realized on each Coupon Payment Date or at maturity per \$1,000 in principal amount of the Notes for a range of prices of the Reference Stock. The hypothetical payments and examples set forth below assume an Initial Stock Price of \$100.00, and a Coupon Barrier and Trigger Price of \$61.10, and reflect the Contingent Coupon of \$25.00, if payable. The actual Initial Stock Price, Coupon Barrier and Trigger Price will be determined on the trade date.

The hypothetical payments and examples set forth below are for illustrative purposes only and may not be the actual payments applicable to the Notes. The numbers appearing in the following table and examples have been rounded for ease of analysis. The examples below do not take into account any tax consequences from investing in the Notes.

Reference Stock Price at Observation Date	Reference Stock Percentage Change Observation Date	Payment on Coupon Payment Date or Call Settlement Date (as applicable) <sup>(1)(2)</sup>	Return on the Notes	Observation Dates Prior to the Final Observation Date	Final Observation Date	Underlying Return at Final Observation Date	Return on the Maturity <sup>(2)</sup> Notes <sup>(4)</sup>
				Final Stock Price <sup>(3)</sup>	Return on the		
\$180.00	80.00%	\$1,025.00	2.50%	\$180.00	80.00%	\$1,025.00	2.50%
\$170.00	70.00%	\$1,025.00	2.50%	\$170.00	70.00%	\$1,025.00	2.50%
\$160.00	60.00%	\$1,025.00	2.50%	\$160.00	60.00%	\$1,025.00	2.50%
\$150.00	50.00%	\$1,025.00	2.50%	\$150.00	50.00%	\$1,025.00	2.50%
\$140.00	40.00%	\$1,025.00	2.50%	\$140.00	40.00%	\$1,025.00	2.50%
\$130.00	30.00%	\$1,025.00	2.50%	\$130.00	30.00%	\$1,025.00	2.50%
\$120.00	20.00%	\$1,025.00	2.50%	\$120.00	20.00%	\$1,025.00	2.50%
\$110.00	10.00%	\$1,025.00	2.50%	\$110.00	10.00%	\$1,025.00	2.50%
\$105.00	5.00%	\$1,025.00	2.50%	\$105.00	5.00%	\$1,025.00	2.50%
\$100.00	0.00%	\$1,025.00	2.50%	\$100.00	0.00%	\$1,025.00	2.50%
\$95.00	-5.00%	\$25.00	2.50%	\$95.00	-5.00%	\$1,025.00	2.50%
\$90.00	-10.00%	\$25.00	2.50%	\$90.00	-10.00%	\$1,025.00	2.50%
\$85.00	-15.00%	\$25.00	2.50%	\$85.00	-15.00%	\$1,025.00	2.50%
\$80.00	-20.00%	\$25.00	2.50%	\$80.00	-20.00%	\$1,025.00	2.50%
\$75.00	-25.00%	\$25.00	2.50%	\$75.00	-25.00%	\$1,025.00	2.50%
\$70.00	-30.00%	\$25.00	2.50%	\$70.00	-30.00%	\$1,025.00	2.50%
\$61.10	-38.90%	\$25.00	2.50%	\$61.10	-38.90%	\$1,025.00	2.50%
\$60.00	-40.00%	\$0.00	0.00%	\$60.00	-40.00%	\$600.00	-40.00%
\$50.00	-50.00%	\$0.00	0.00%	\$50.00	-50.00%	\$500.00	-50.00%
\$40.00	-60.00%	\$0.00	0.00%	\$40.00	-60.00%	\$400.00	-60.00%
\$30.00	-70.00%	\$0.00	0.00%	\$30.00	-70.00%	\$300.00	-70.00%
\$20.00	-80.00%	\$0.00	0.00%	\$20.00	-80.00%	\$200.00	-80.00%
\$10.00	-90.00%	\$0.00	0.00%	\$10.00	-90.00%	\$100.00	-90.00%
\$0.00	-100.00%	\$0.00	0.00%	\$0.00	-100.00%	\$0.00	-100.00%

(1) The Notes will be automatically called if the closing price of one share of the Reference Stock on any Observation Date (other than the final Observation Date) is greater than or equal to the Initial Stock Price.

(2) You will receive a Contingent Coupon in connection with an Observation Date (i) if the closing price of one share of the Reference Stock on that Observation Date (other than the final Observation Date) or (ii) with respect to the final Observation Date, the Final Stock Price is greater than or equal to the Coupon Barrier. As set forth above, an unpaid Contingent Coupon may be payable on a subsequent Coupon Payment Date, or at maturity. This column does not reflect any previously unpaid Contingent Coupons that may be payable at on a Coupon Payment Date or at maturity.

(3) The Final Stock Price is equal to the arithmetic average of the closing prices of one share of the Reference Stock on each of the Valuation Dates.

<sup>(4)</sup> This column reflects only the return received in respect of the payment on the maturity date. In addition to this payment, if the closing price of the Reference Stock is greater than or equal to the Coupon Barrier (but below the Initial Stock Price) on one or more of the preceding Observation Dates, investors would receive the applicable Contingent Coupons.

FWP-3

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Hypothetical Examples of Amounts Payable at Maturity or upon an Automatic Call

The following examples illustrate how the payments will be calculated.

Example 1: The closing price of the Reference Stock increases from the Initial Stock Price of \$100.00 to \$110.00 on the first Observation Date.

Because the closing price of the Reference Stock on the first Observation Date is above the Initial Stock Price, the Notes are automatically called, and the investor receives a single payment on the first Call Settlement Date of \$1,025.00 per \$1,000 in principal amount of the Notes, reflecting the principal amount plus the Contingent Coupon for the first Observation Date, for a return of 2.50% on the Notes. No further amount will be owed to you under the Notes.

Example 2: The closing price of the Reference Stock decreases from the Initial Stock Price of \$100.00 to \$55.00 on the first Observation Date (below the Coupon Barrier), \$60.00 on the second Observation Date (below the Coupon Barrier), and increases to \$120.00 on the third Observation Date.

The closing price of the Reference Stock on the first and second Observation Dates was below the Initial Stock Price, so the notes were not automatically called; in addition, the first two Contingent Coupons were not payable. Since the closing price of the Reference Stock on the third Observation Date is above the Initial Stock Price, the Notes are automatically called, and the investor receives a payment on the third Call Settlement Date of \$1,025.00 per \$1,000 in principal amount of the Notes, reflecting the principal amount (\$1,000) and the Contingent Coupon for the third Observation Date (\$25.00), plus the Contingent Coupons that were not payable on the first two Coupon Payment Dates (\$50.00). An investor's return would be 7.50% on the Notes. No further amount will be owed to you under the Notes.

Example 3: The closing price of the Reference Stock decreases from the Initial Stock Price of \$100.00 to \$60.00 on the first Observation Date (below the Coupon Barrier), \$55.00 on the second Observation Date (below the Coupon Barrier), \$50.00 on the third Observation Date (below the Coupon Barrier) and the Final Stock Price of \$95.00 (above the Coupon Barrier and Trigger Price).

The closing price of the Reference Stock on the first, second and third Observation Dates were below the Initial Stock Price, so the notes were not automatically called; in addition, the first three Contingent Coupons were not payable. Since the Final Stock Price is above the Trigger Price, at maturity, the investor receives a payment of \$1,100.00 per \$1,000 in principal amount of the Notes, reflecting the principal amount (\$1,000) plus the Contingent Coupon for the final Observation Date (\$25.00), plus the three previously unpaid Contingent Coupon payments (\$75.00). The investor's return would be 10.00% on the Notes. No further amount will be owed to you under the Notes.

Example 4: The closing price of the Reference Stock decreases from the Initial Stock Price of \$100.00 to \$60.00 on the first Observation Date (below the Coupon Barrier), \$50.00 on the second Observation Date (below the Coupon Barrier), \$45.00 on the third Observation Date (below the Coupon Barrier) and the Final Stock Price is \$40.00 (below the Coupon Barrier and Trigger Price).

In this example, no Contingent Coupons were payable prior to maturity. At maturity, since the Final Stock Price is below the Coupon Barrier and Trigger Price, the investor receives a payment of \$400.00 per \$1,000 in principal amount of the Notes, reflecting the full downside performance of the Reference Stock. The investor would incur a loss of 60% on the Notes. No further amount will be owed to you under the Notes.

#### Selected Purchase Considerations

**Capped Appreciation Potential** — The return potential of the Notes is limited to the Contingent Coupons and you will not participate in any appreciation in the price of the Reference Stock, which may be significant.

**Potential Early Redemption as a Result of Automatic Call Feature** — While the original term of the Notes is just over one year, the Notes will be called before maturity if the closing price of the Reference Stock is at or above the Initial Stock Price on the applicable Observation Date (other than the final Observation Date). In such a case, you will receive the principal amount plus the applicable Contingent Coupon corresponding to that Observation Date, plus any previously unpaid Contingent Coupons with respect to prior Observation Dates.

**Contingent Protection Against Loss** — If the Notes are not automatically called and the Final Stock Price is at or above the Trigger Price, you will be entitled to receive the full principal amount of your Notes at maturity (plus the applicable Contingent Coupon and any previously unpaid Contingent Coupons with respect to prior Observation Dates). If the Notes are not automatically called and the Final Stock Price is less than the Trigger Price, you will lose 1% of the principal amount of your Notes for every 1% that the Final Stock Price is less than the Initial Stock Price. Under these circumstances, you will lose at least 38.90% of your principal amount at maturity and may lose up to your entire principal amount.

#### Selected Risk Considerations

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the Reference Stock. These risks are explained in more detail in the section “Risk Factors” beginning on page PS-5 of the product prospectus supplement. In addition to the risks described in the prospectus supplement and the product prospectus supplement, you should consider the following:

**Principal at Risk** — Investors in the Notes could lose all or a substantial portion of their principal amount if there is a decline in the Reference Stock below the Trigger Price and the Notes are not automatically called. You will lose 1% of the principal amount of your Notes for each 1% that the Final Stock Price is less than the Initial Stock Price if the Final Stock Price is less than the Trigger Price.

**Contingent Repayment of Principal Applies Only at Maturity** — You should be willing to hold your Notes to maturity. If you sell your Notes prior to maturity in the secondary market, if any, you may have to sell your Notes at a loss relative to your initial investment even if the price of the Reference Stock is above the Trigger Price.

**You May Not Receive Any Contingent Coupons** — Investors in the Notes will not necessarily receive Contingent Coupons on the Notes. If (i) the closing price of the Reference Stock on an Observation Date (other than the final Observation Date) or (ii) with respect to the final Observation Date, the Final Stock Price, is less than the Coupon Barrier, investors will not receive the Contingent Coupon applicable to that Observation Date. If the closing price of the Reference Stock is less than the Coupon Barrier on each of the Observation Dates (other than the final Observation Date) and the Final Stock Price is less than the Coupon Barrier, investors will not receive any Contingent Coupons during the term of the Notes, and will not receive a positive return on the Notes. Contingent Coupon payments should not be viewed as periodic interest payments. Generally, this non-payment of the Contingent Coupon coincides with a period of greater risk of principal loss on the Notes. Notwithstanding the memory feature described above, there can be no assurance that any unpaid Contingent Coupon will become payable during the term of the notes.

**Your Return May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity** — The return that you will receive on the Notes, which could be negative, may be less than the return you could earn on other investments. Even if your return is positive, your return may be less than the return you would earn if you bought one of our conventional senior interest bearing debt securities.

**Reinvestment Risk** — If your Notes are automatically called, the term of the Notes may be as short as approximately three months. There is no guarantee that you would be able to reinvest the proceeds from an investment in the Notes at a comparable return for a similar level of risk if the Notes are automatically called prior to the Maturity Date. In addition, for the avoidance of doubt, the underwriting commission set forth above will not be rebated if the Notes are called prior to maturity.