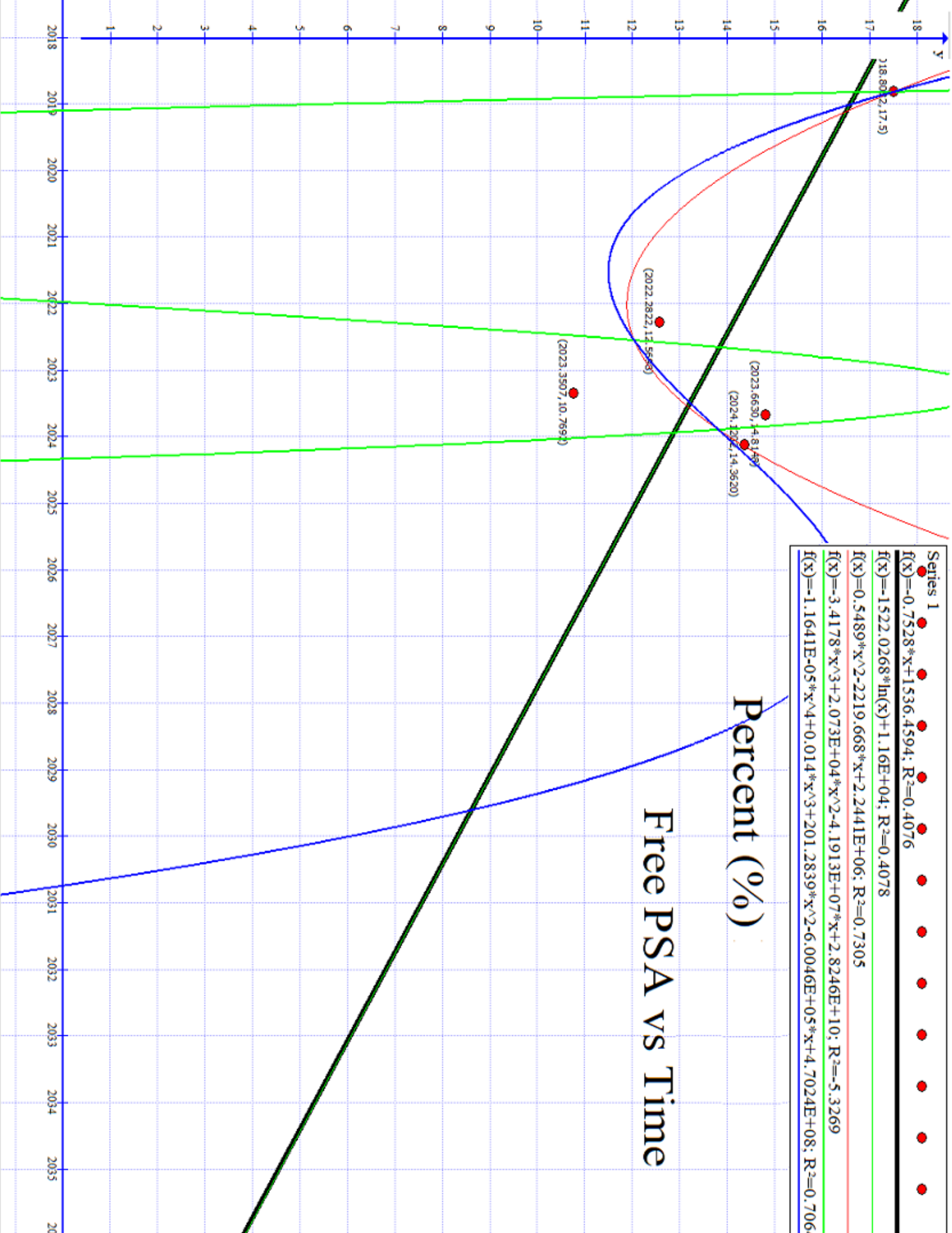




Data Point LETTER	DATE: mm/DD/YYYY Format	DATE converted to decimal: Formula = $\left(\frac{d-1}{365}\right)$ or $\left(\frac{d-1}{366}\right)$ for Leap Year Example 1: Jan 1, 2023 = $\left(\frac{1-1}{365}\right) = 0$ Ex. 2: Dec 31, 2020 = $\left(\frac{366-1}{365}\right) = \text{decimal}$	PSA $\frac{ng}{mL}$ T = Total F = Free
A	04/05/2013	$d = 31 + 28 + 31 + 5 = 95$ $2013 + \frac{95-1}{365} = 2013.2575$	2.9 T -
B	11/25/2014	$d = 31 + 28 + 31 + 30 + 31 + 30 + 31 + 30 + 31 + 25 = 329$ $2014 + \frac{329-1}{365} = 2014.8986$	3.1 T -
C	11/25/2015	Ibid. : 2015.8986	3.5 T -
D	7/23/2018	$d = 31 + 28 + 31 + 30 + 31 + 30 + 23 = 204$ $2018 + \frac{204-1}{365} = 2018.5562$	4.5 T -
E	10/23/2018	$d = 31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 23 = 296$ $2018 + \frac{296-1}{365} = 2018.8082$	3.2 T 0.56 F (17.5%)
⊕ F	6/09/2021	$d = 31 + 28 + 31 + 30 + 31 + 9 = 160$ $2021 + \frac{160-1}{365} = 2021.4356$	6.2 T -
⊕ H	<del>7/27/2021</del> 12/13/2021	$d = 31 + 28 + 31 + 30 + 31 + 30 + 31 + 31 + 30 + 31 + 30 + 13 = 347$ $2021 + \frac{347-1}{365} = 2021.9479$	6.510 T -
I	4/14/2022	$d = 31 + 28 + 31 + 14 = 104$ $2022 + \frac{104-1}{365} = 2022.2822$	7.160 T 0.900 F (12.5698%)
J1 ⊗	5/09/2023	$d = 31 + 28 + 31 + 30 + 9 = 129$ $2023 + \frac{129-1}{365} = 2023.3507$	6.5 T 0.7 F (10.7692%)
J2 ⊗	5/09/2023	Ibid. : 2023.3507	5.98 T -
K	9/01/2023	$d = 31 + 28 + 31 + 30 + 31 + 30 + 31 + 30 + 1 = 243$ $2023 + \frac{243-1}{365} = 2023.6630$	5.4 T 0.8 F (14.8148%)
L	02/14/2024	$d = 31 + 14 = 45$ $2024 + \frac{45-1}{366} = 2024.1202$	7.116 T 1.022 F (14.3620%)

NOTES: ⊕ Skips from F to H because "G" is a DIAGNOSTIC Report = No PSA data ⊗ Two tests on 5/9/23 done w/ 2 methods.



Series 1

$f(x) = -0.7528x + 1536.4594; R^2 = 0.4076$

$f(x) = -1522.0268 \ln(x) + 1.16E+04; R^2 = 0.4078$

$f(x) = 0.5489x^2 - 2219.668x + 2.2441E+06; R^2 = 0.7305$

$f(x) = -3.4178x^3 + 2.073E+04x^2 - 4.1913E+07x + 2.8246E+10; R^2 = -5.3269$

$f(x) = -1.1641E-05x^4 + 0.014x^3 + 201.2839x^2 - 6.0046E+05x + 4.7024E+08; R^2 = 0.7064$

Percent (%)

Free PSA vs Time

17.5

2019

(2022, 2822, 12.5568)

(2023, 3507, 10.7692)

(2023, 6630, 14.8149)

(2024, 1202, 14.3620)