

Flight Results for Big Sharky Fall 2014

	FDS	Demo #1	Demo #2	Flight #3	Flight #4	Flight #5
Owners		Mr D	Mr D	Addison, Cooper	Hannah, Kennady	Nick, Brody
Rocket Name		Big Sharky	Big Sharky	Nuclear Destruction	Mike & Ike	Venom
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		83.1g	83.1g	69.4 g	87.1 g	69.3 g
Motor Used		C6-3	C6-5	C6-3	C6-3	C6-5
Estimated Cd		0.5	0.5	0.5	0.5	0.5
Estimated Altitude		400 ft	400 ft	375 ft	345 ft	420 ft
Apogee Altitude		411 ft	290 ft	425 ft	315 ft	448 ft
Top Speed		116 mph	91 mph	112 mph	89 mph	119 mph
Burn Time	burn	1.54 s	2.21 s	1.95 s	2.8 s	1.93 s
Peak Acceleration	PAcc	9.6 g	7.2 g	8.3 g	6.9 g	10.4 g
Avg Accerleration	AAcc	3.4 g	1.96 g	2.6 g	2.0 g	2.8 g
Coast to Apogee	C2AP	3.9 s	2.5 s	3.75 s	3.0 s	4.0 s
Apogee to Eject	AP2E	-0.5 s	2.4 s	-0.8 s	0.2 s	1.1 s
Ejection Altitude	EALt	396 ft	227 ft	406 ft	314 ft	424 ft
Descent Speed	dESc	11 mph	12 mph	27 mph	9 mph	10 mph
Flight Duration	durA	28.5 s	19.3 s	15.25 s	27.5 s	35.5 s
Notes				Chute did not deploy, nose cone out but no chute	sideways	perfect launch

	FDS	Flight #6	Flight #7	Flight #8	Flight #9	Flight #10
Owners		Jeff, Natalie	Adam	Hayley, Maddie	Mason, Cody	Zach, Nathan, Caleb
Rocket Name		American Horror Story	ICBM #2015	Soarin',Flyin'...	Dumb & Dumber	Pinseeker
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		81.2 g	70.9 g	75.3 g	73.4 g	72.2 g
Motor Used		C6-3	C6-5	C6-5	C6-5	C6-3
Estimate Cd		0.5	0.5	0.5	0.5	0.5
Estimated Altitude		350 ft				
Apogee Altitude		359 ft	427 ft	383 ft	445 ft	404 ft
Top Speed		100 mph	113 mph	98 mph	104 mph	109 mph
Burn Time	burn	2.12 s	1.76 s	2.2 s	2.29 s	2.3 s
Peak Acceleration	PAcc	8.0 g	9.5 g	7.0 g	7.4 g	7.6 g
Avg Accerleration	AAcc	2.2 g	2.9 g	2.0 g	2.1 g	2.5 g
Coast to Apogee	C2AP	2.9 s	3.8 s	3.6 s	3.9 s	3.3 s
Apogee to Eject	AP2E	-0.8 s	1.5 s	1.5 s	1.5 s	-0.1 s
Ejection Altitude	EALt	339 ft	405 ft	347 ft	408 ft	388 ft
Descent Speed	dESc	9 mph	21 mph	39 mph	8 mph	10 mph
Flight Duration	durA	27.7 s	19.7 s	13.3 s	39.7 s	29.9 s
Notes		sideways	Chute did not deploy, nose cone out but no chute, fin broke	Did not zip tie the altimeter in properly. Lost altimeter/Found!!		

	FDS	Flight #11	Flight #12	Flight #13	Flight #14	Flight #15
Owners		Anika, Emma	Brady, Brandon	Trisha, Sarah, Dezeray	Emily, Lauryn, Caleb	Chester
Rocket Name		Lush	Rainbow Rocket	Woo-Hoo!	Team Nice Dynamite	Sprite
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		68.3 g	73.1 g	72.3 g	71.3 g	77.1 g
Motor Used		C6-3	C6-5	C6-3	C6-5	
Estimated Cd		0.5	0.5	0.5	0.5	0.5
Estimated Altitude		320 ft	385 ft			
Apogee Altitude		381 ft	392 ft	423 ft	424 ft	349 ft
Top Speed		109 mph	98 mph	110 mph	113 mph	100 mph
Burn Time	burn	1.95 s	2.2 s	2.5 s	1.72 s	2.4 s
Peak Acceleration	PAcc	8.6 g	6.56 g	8.0 g	9.7 g	7.3 g
Avg Accerleration	AAcc	2.6g	2.16 g	2.5 g	3.0 g	2.3 g
Coast to Apogee	C2AP	3.2 s	3.4 s	3.5 s	3.8 s	3.3 s
Apogee to Eject	AP2E	0.0 s	1.1 s	-0.6 s	1.5 s	-0.7 s
Ejection Altitude	EALt	370 ft	381 ft	413 ft	398 ft	340 ft
Descent Speed	dESc	8 mph	10 mph	9 mph	19 mph	7 mph
Flight Duration	durA	37.5 s	30.4 s	35 sec	20.9 s	33.6 s
Notes						

	FDS	Flight #16	Flight #17	Flight #18	Flight #19	Flight #20
Owners		Ngan, Camille, Madonna	Jessica, Lindsey	Ben, Tyler		
Rocket Name		X-Caliber	The Beatles	Bill Murray		
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us		
Rocket Mass		72.3 g	81.2 g	71.4 g		
Motor Used		C6-5	C6-5	C6-3		
Estimated Cd		0.5	0.5	0.5		
Estimated Altitude		395 ft	385 ft	350 ft		
Apogee Altitude		372 ft	300 ft	367 ft		
Top Speed		116 mph	89 mph	105 mph		
Burn Time	burn	1.72 s	2.2 s	2.1 s		
Peak Acceleration	PAcc	10.7 g	7.5 g	7.5 g		
Avg Accerleration	AAcc	3.1 g	1.96 g	2.3 g		
Coast to Apogee	C2AP	3.5 s	2.9 s	3.0 s		
Apogee to Eject	AP2E	1.2 s	0.7 s	-0.2 s		
Ejection Altitude	EALt	355 ft	293 ft	363 ft		
Descent Speed	dESc	16 mph	12 mph	11 mph		
Flight Duration	durA	21 s	22.2 s	27.1 s		
Notes						