Table of ceasefire violations as of 15 September  $2019^1$ 

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	0.8-1km S	Recorded	10	Projectile	W to E (followed by ricochet)	N/K	13-Sep, 20:43
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 20:46
	0.3-0.6km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 20:46
	0.2-0.4km SSW	Recorded	7	Muzzle flash		N/K	13-Sep, 20:51
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 20:52
	0.3-0.6km SSW	Recorded	9	Muzzle flash		N/K	13-Sep, 20:58
	0.3-0.6km S	Recorded	5	Explosion	Impact	N/K	13-Sep, 20:58
	0.3-0.6km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 20:58
	0.3-0.6km SSW	Recorded	6	Explosion	Undetermined	N/K	13-Sep, 20:59
	0.3-0.6km S	Recorded	2	Muzzle flash		N/K	13-Sep, 21:00
	0.3-0.6km SSW	Recorded	10	Explosion	Undetermined	N/K	13-Sep, 21:00
	0.3-0.6km SSW	Recorded	15	Muzzle flash		Small arms	13-Sep, 21:01
	0.3-0.6km SSW	Recorded	4	Explosion	Undetermined	N/K	13-Sep, 21:01
	0.3-0.6km S	Recorded	1	Muzzle flash		N/K	13-Sep, 21:02
	0.3-0.6km SSW	Recorded	2	Explosion	Undetermined	N/K	13-Sep, 21:02
	0.3-0.6km SSW	Recorded	7	Muzzle flash		N/K	13-Sep, 21:02
	0.3-0.6km SSW	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:04
	0.8-1km SSE	Recorded	2	Muzzle flash		N/K	13-Sep, 21:07
	0.3-0.6km SSW	Recorded	2	Muzzle flash		N/K	13-Sep, 21:07
	0.3-0.6km SSW	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:08
	0.3-0.6km SSW	Recorded	3	Explosion	Undetermined	N/K	13-Sep, 21:09
	0.3-0.6km S	Recorded	3	Explosion	Undetermined	N/K	13-Sep, 21:09
	0.3-0.6km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:09
	0.8-1km SSW	Recorded	1	Projectile	WNW to ESE	N/K	13-Sep, 21:10
	0.3-0.6km SSW	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:15
	0.3-0.6km SSW	Recorded	3	Explosion	Outgoing	N/K	13-Sep, 21:16
0.04	0.3-0.6km SSW	Recorded	2	Explosion	Subsequent impacts	N/K	13-Sep, 21:16
SMM camera at Donetsk	0.3-0.6km S	Recorded	13	Muzzle flash		N/K	13-Sep, 21:17
Filtration Station (15km N of Donetsk)	0.3-0.6km W	Recorded	13	Explosion	Subsequent to previous event	N/K	13-Sep, 21:17
	0.3-0.6km W	Recorded	9	Explosion	Undetermined	N/K	13-Sep, 21:17
	0.8-1.4km SSW	Recorded	1	Projectile	WNW to ESE	N/K	13-Sep, 21:17
	0.3-0.6km S	Recorded	4	Explosion	Impact	N/K	13-Sep, 21:17
	0.3-0.6km S	Recorded	1	Explosion	Impact	N/K	13-Sep, 21:17
	0.3-0.6km SSW	Recorded	1	Explosion	Outgoing	N/K	13-Sep, 21:17
	0.2-0.4km S	Recorded	1	Explosion	Impact	N/K	13-Sep, 21:17
	0.3-0.6km SSW	Recorded	2	Explosion	Undetermined	N/K	13-Sep, 21:18
	0.8-1.2km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:18
	0.8-1.2km S	Recorded	1	Projectile	W to E	N/K	13-Sep, 21:18
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:18
	0.8-1.2km S	Recorded	6	Explosion	Undetermined	N/K	13-Sep, 21:19
	0.3-0.6km SSW	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:20
	0.8-1.2km S	Recorded	8	Explosion	Undetermined	N/K	13-Sep, 21:21
	0.8-1.2km SSE	Recorded	3	Explosion	Undetermined	N/K	13-Sep, 21:21
	0.3-0.6km SSW	Recorded	3	Explosion	Undetermined	N/K	13-Sep, 21:21
	0.8-1.2km S	Recorded	4	Explosion	Undetermined	N/K	13-Sep, 21:22
	0.2-0.6km S	Recorded	18	Projectile	WSW to ENE	N/K	13-Sep, 21:22
	0.8-1.2km S	Recorded	2	Explosion	Undetermined	N/K	13-Sep, 21:22
	0.2-0.6km S	Recorded	18	Projectile	WSW to ENE	N/K	13-Sep, 21:23
	0.3-0.6km SSW	Recorded	8	Explosion	Outgoing	N/K	13-Sep, 21:23
	0.2-0.6km S	Recorded	1	Projectile		N/K	13-Sep, 21:24
	0.3-0.6km S	Recorded	2	Muzzle flash		N/K	13-Sep, 21:24
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:24
	0.3-0.6km S	Recorded	11	Projectile	WSW to ENE	N/K	13-Sep, 21:24
	0.2-0.6km S	Recorded	17	Projectile	WNW to ESE	N/K	13-Sep, 21:25
	0.2-0.6km S	Recorded	2	Projectile	W to E	N/K	13-Sep, 21:25
	0.2-0.6km SSW	Recorded	1	Explosion	Undetermined	N/K N/K	13-Sep, 21:25 13-Sep, 21:25
	VY 66 IIIAU.U-C.U	Recorded	1	Pyhiosioii	Undetermined	11/15	13-sep, 21.23

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<sup>&</sup>lt;sup>1</sup> The table only includes ceasefire violations directly observed by the SMM and it may include those also assessed to be live-fire exercises, controlled detonations, etc. Details provided – in terms of distance, direction, weapons-type, etc. – are based on assessments provided by monitors on the ground, and are not always necessarily precise. When information is not known (indicated with an "N/K"), the SMM was unable to ascertain such information due to distance, weather conditions and/or other considerations. Ceasefire violations recorded by more than one patrol and assessed to be the same are entered only once.

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	0.8-1.2km SSW	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:30
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:35
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:36
	0.3-0.6km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:36
	0.3-0.6km SSW	Recorded	2	Explosion	Undetermined	N/K	13-Sep, 21:38
	0.8-1.2km SSE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:38
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	13-Sep, 21:39
	0.3-0.6km S	Recorded	2	Explosion	Undetermined	N/K	13-Sep, 21:40
	0.3-0.6km SSW	Recorded	3	Muzzle flash		N/K	13-Sep, 21:40
	0.3-0.6km S	Recorded	16	Projectile	W to E	N/K	13-Sep, 21:40
	0.3-0.6km S	Recorded	13	Projectile	W to E	N/K	13-Sep, 21:41
	0.3-0.6km S	Recorded	11	Projectile	W to E	N/K	13-Sep, 21:42
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:42
	1-2km SSW	Recorded	1	Projectile	W to E	N/K	13-Sep, 21:44
	0.3-0.6km S	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 21:44
	0.3-0.6km SSW	Recorded	2	Explosion	Undetermined	N/K	13-Sep, 21:44
	1-2km S	Recorded	1	Illumination flare	In vertical flight	N/K	13-Sep, 22:38
	1-2km SSW	Recorded	3	Explosion	Undetermined	N/K	14-Sep, 01:34
	4-6km ESE	Recorded	1	Projectile	SSW to NNE	N/K	13-Sep, 20:13
	4-6km ESE	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 20:24
	4-6km ESE	Recorded	2	Projectile	In vertical flight	N/K	13-Sep, 20:26
SMM camera 1.5km NE of	4-6km ESE	Recorded	1	Burst	In vertical flight	N/K	13-Sep, 21:33
Hnutove (government-	4-6km ENE	Recorded	1	Projectile	N to S	N/K	13-Sep, 21:59
controlled, 20km NE of	4-6km ENE	Recorded	1	Projectile	N to S	N/K	13-Sep, 23:01
Mariupol)	4-6km ENE	Recorded	1	Projectile	In vertical flight	N/K	13-Sep, 23:01
	4-6km ENE	Recorded	3	Projectile	N to S	N/K	13-Sep, 23:02
	4-6km NE	Recorded	1	Illumination flare	In vertical flight, also recorded by Lomakyne camera	N/K	14-Sep, 03:27
CLOS E CL 1	3-4km ENE	Recorded	1	Explosion	Impact	N/K	13-Sep, 19:08
SMM camera E of Lomakyne	4-5km ENE	Recorded	1	Projectile	In vertical flight	N/K	13-Sep, 19:23
(government-controlled, 15km	4-5km NE	Recorded	1	Projectile	SE to NW	N/K	13-Sep, 19:38
NE of Mariupol)	3-5km NE	Recorded	1	Projectile	SE to NW	N/K	13-Sep, 21:21
	1-3km E	Recorded	1	Explosion	Undetermined	N/K	13-Sep, 20:29
	1-3km E	Recorded	1	Explosion	Airburst	N/K	13-Sep, 20:50
	10-14km E	Recorded	1	Illumination flare	In vertical flight	N/K	13-Sep, 21:32
	1-3km ENE	Recorded	3	Projectile	NNW to SSE	N/K	13-Sep, 22:09
CMM	1-3km ENE	Recorded	4	Projectile	NNW to SSE	N/K	13-Sep, 22:10
SMM camera at entry-exit checkpoint in Maiorsk	1-3km ENE	Recorded	2	Projectile	NNW to SSE	N/K	13-Sep, 22:12
(government-controlled, 45km	1-3km ENE	Recorded	7	Projectile	NNW to SSE	N/K	13-Sep, 22:13
NE of Donetsk)	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	13-Sep, 22:14
TVE of Bolletsky	2-4km ENE	Recorded	3	Projectile	ESE to WNW	N/K	13-Sep, 23:11
	1-3km ENE	Recorded	2	Projectile	NNW to SSE	N/K	13-Sep, 23:15
	1-3km ENE	Recorded	4	Projectile	NNW to SSE	N/K	13-Sep, 23:17
	1-3km ENE	Recorded	3	Projectile	WSW to ENE	N/K	13-Sep, 23:18
	1-3km ENE	Recorded	1	Projectile	NW to SE	N/K	13-Sep, 23:19
	3-5km SSE	Recorded	4	Projectile	W to E	N/K	13-Sep, 20:14
	3-5km SSE	Recorded	1	Projectile	W to E	N/K	13-Sep, 20:15
	3-5km S	Recorded	1	Burst	In vertical flight	N/K	13-Sep, 20:19
	3-5km SSE	Recorded	2	Projectile	W to E	N/K	13-Sep, 20:25
	3-5km SSE	Recorded	11	Projectile	W to E	N/K	13-Sep, 20:26
SMM camera at entry-exit	3-5km S	Recorded	2	Projectile	In vertical flight	N/K	13-Sep, 20:26
checkpoint in Pyshchevyk	3-5km S	Recorded	1	Projectile	In vertical flight	N/K	13-Sep, 22:23
(government-controlled, 25km	3-5km S	Recorded	4	Projectile	In vertical flight	N/K	13-Sep, 22:26
NE of Mariupol)	3-5km S	Recorded	10	Projectile	W to E	N/K	13-Sep, 22:26
	3-5km S	Recorded	2	Projectile	W to E	N/K	13-Sep, 22:27
	3-5km S	Recorded	5	Projectile	W to E	N/K	13-Sep, 22:28
	3-5km S	Recorded	1	Projectile	W to E	N/K	13-Sep, 22:30
	3-5km S	Recorded	3	Projectile	W to E	N/K	13-Sep, 22:31
SMM camera in Svitlodarsk (government-controlled, 57km	1-3km S 5-7km E	Recorded Recorded	1	Projectile  Explosion	W to E Undetermined	N/K N/K	13-Sep, 22:33 13-Sep, 21:04
NE of Donetsk)  About 1km NW of the railway	2km SW	Heard	5	Shot		Small arms	14-Sep, 09:20- 09:23
station in Yasynuvata (non-	2-3km NNW	Heard	1	Shot		HMG	14-Sep, 09:22
government-controlled, 16km NE of Donetsk)	2-3km N	Heard	8	Shot		Small arms	14-Sep, 09.22 14-Sep, 12:20- 12:25
· · · · · · · · · · · · · · · · · · ·	2 21 777	177 1	1	Explosion	Undetermined	N/K	14-Sep, 11:08
	2-3km W	Heard	1	EXPIOSION	Undetermined	1N/ IX	14-560, 11:06

County   Laborate stay control   NY   Debroids (sign control)	SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
Marinka (government corrorleder, 23m NW	government-controlled, 6km	2-3km NNE	Heard	1	Explosion	Undetermined	N/K	14-Sep, 13:40
Controlled, 2 Shins Now of Domestick   2-3 km SW   Heard   27   Shot   Shot   Small arms   14-Sep, 15-01-Domestick   2-3 km SE   Heard   12   Shot   Small arms   14-Sep, 15-02-Domestick   2-3 km SE   Heard   2   Shot   Small arms   14-Sep, 15-02-Domestick   15-Sep, 15-Sep	Marinka (government	2-3km SW	Heard	21	Burst		Small arms	
Sam SE   Heard   12   Short   Assessed as outside of Petrivske disengagement and Denetical (Assessed as Controlled, 41km SW of Denetical)   Color	controlled, 23km SW of	2-3km SW	Heard	27	Shot		Small arms	
Description	,	2-3km SE	Heard	12	Shot		Small arms	
			Heard	3		Petrivske disengagement area	Small arms	
1.3km SE	Donetsk)	0.5km W	Heard	6	Explosion	as outside Petrivske	N/K	
24km SE			Heard	2	Burst			13-Sep, 18:39
1.3km SE		1-3km SE	Heard	3				
1-2km SE						Undetermined		
1-2km SF								
1-3km SE								
Figure   F		1-2KM SE	Heard	4	Snot		Small arms	
1-2km SE						***		19:52
2-3km SE						Undetermined		
1-2km SE								
Page								_
2-4km S								13-Sep, 19:57-
2-3km S								
2-8km S		2-4km S	Heard	3	Explosion	Undetermined	N/K	
2-3km S   Heard   2   Burst   Small arms   13-Sep, 20:05		2-3km S	Heard	34				20:03
2-4km S						Undetermined		
1-3km S								
3-5km S								
2-3km SE								
2-3km SE						Ondetermined		
Svitlodarsk (government- controlled, 57km NE of Donetsk)								
Syitlodarsk (government-controlled, 57km NE of Donetsk   1-2km SSW						Undetermined		
1-2km SSW		1-2km SE	Heard	5	Shot		Small arms	13-Sep, 20:36
Controlled, 57km NE of Donetsk   1-2km SSW	Svitlodarsk (government-							
2-3km SE				6				
1-2km SE	Donetsk)			1		Undetermined		
2-3km SE								
3-5km SE								
2-3km SSE				1		Undetermined		
1-2km SSE				33				13-Sep, 21:39-
1-2km SSE		1-2km SSF	Heard	3	Ruret		Small arms	
1-2km SE								13-Sep, 21:47-
1-2km SE         Heard         9         Shot         Small arms         13-Sep, 21:51           1-2km SE         Heard         25         Burst         HMG         13-Sep, 21:54-21:55           1-2km SE         Heard         10         Shot         Small arms         13-Sep, 21:55           2-3km SE         Heard         13         Burst         Small arms         13-Sep, 21:55           2-4km S         Heard         5         Explosion         Undetermined         N/K         13-Sep, 21:57-21:58           2-4km S         Heard         3         Explosion         Undetermined         N/K         13-Sep, 21:59-21:59-21:59           2-4km S         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59-21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 21:59-21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 22:00           1-2km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard		1-2km SE	Heard	36	Burst		Small arms	13-Sep, 21:49-
1-2km SE		1-2km SE	Heard	9	Shot		Small arms	
1-2km SE         Heard         10         Shot         Small arms         13-Sep, 21:55           2-3km SE         Heard         13         Burst         Small arms         13-Sep, 21:55           2-4km S         Heard         5         Explosion         Undetermined         N/K         13-Sep, 21:57-21:58           2-4km S         Heard         3         Explosion         Undetermined         N/K         13-Sep, 21:58           2-4km S         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59           2-3km SSW         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 21:59           2-3km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01								13-Sep, 21:54-
2-3km SE         Heard         13         Burst         Small arms         13-Sep, 21:55           2-4km S         Heard         5         Explosion         Undetermined         N/K         13-Sep, 21:57           2-3km S         Heard         32         Burst         Small arms         13-Sep, 21:57-21:58           2-4km S         Heard         3         Explosion         Undetermined         N/K         13-Sep, 21:58           2-4km S         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 22:00           1-2km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           2-4km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:00           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         2         Shot         Small arms         13-Sep, 22:01-20:02		1-2km SE	Heard	10	Shot		Small arms	
2-4km S         Heard         5         Explosion         Undetermined         N/K         13-Sep, 21:57           2-3km S         Heard         32         Burst         Small arms         13-Sep, 21:57-21:58           2-4km S         Heard         3         Explosion         Undetermined         N/K         13-Sep, 21:58           2-4km S         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 22:00           1-2km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           2-4km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         20         Shot         Small arms         13-Sep, 22:01-20:02								
2-3km S       Heard       32       Burst       Small arms       13-Sep, 21:57-21:58         2-4km S       Heard       3       Explosion       Undetermined       N/K       13-Sep, 21:58         2-4km S       Heard       1       Explosion       Undetermined       N/K       13-Sep, 21:59         2-3km SSW       Heard       8       Burst       HMG       13-Sep, 22:00         1-2km SSW       Heard       5       Burst       Small arms       13-Sep, 22:00         2-4km SSW       Heard       2       Explosion       Undetermined       N/K       13-Sep, 22:01         1-2km SSW       Heard       20       Shot       Small arms       13-Sep, 22:01-22:02						Undetermined		
2-4km S         Heard         3         Explosion         Undetermined         N/K         13-Sep, 21:58           2-4km S         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 22:00           1-2km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           2-4km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         20         Shot         Small arms         13-Sep, 22:01-22:02					<b>†</b>			13-Sep, 21:57-
2-4km S         Heard         1         Explosion         Undetermined         N/K         13-Sep, 21:59           2-3km SSW         Heard         8         Burst         HMG         13-Sep, 22:00           1-2km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           2-4km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         20         Shot         Small arms         13-Sep, 22:01-22:02		2-4km S	Heard	3	Explosion	Undetermined	N/K	
2-3km SSW         Heard         8         Burst         HMG         13-Sep, 22:00           1-2km SSW         Heard         5         Burst         Small arms         13-Sep, 22:00           2-4km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         20         Shot         Small arms         13-Sep, 22:01-22:02					•		N/K	13-Sep, 21:59
2-4km SSW         Heard         2         Explosion         Undetermined         N/K         13-Sep, 22:01           1-2km SSW         Heard         20         Shot         Small arms         13-Sep, 22:01-22:02			Heard		Burst			
1-2km SSW Heard 20 Shot Small arms 13-Sep, 22:01- 22:02					Burst			
1-2kii SSW neatu 20 Siiot Siiaii ariis 22:02		2-4km SSW	Heard	2	Explosion	Undetermined	N/K	
		1-2km SSW	Heard	20	Shot		Small arms	
		1-3km SSW	Heard	3	Burst		Small arms	13-Sep, 22:02

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	3-5km SSW	Heard	2	Explosion	Undetermined	N/K	13-Sep, 22:24
	2-3km SE	Heard	8	Burst		Small arms	13-Sep, 22:33
	2-3km SE	Heard	3	Burst		Small arms	13-Sep, 22:42
	1-2km SE	Heard	1	Shot		Small arms	13-Sep, 22:56
	3-5km SE	Heard	1	Explosion	Undetermined	N/K	13-Sep, 23:46
	2-3km S	Heard	2	Explosion	Undetermined	N/K	14-Sep, 07:55
	2-3km ESE	Heard	4	Burst		Small arms	14-Sep, 08:33
	3-5km SSW	Heard	1	Explosion	Undetermined	N/K	14-Sep, 12:05
S edge of Zolote- 5/Mykhailivka (non- government-controlled, 58km NW of Luhansk)	1-2km NNW	Heard	5	Explosion	Undetermined (assessed as outside the disengagement area. The same ceasefire violations was recorded by SMM while in government-controlled areas)	N/K	14-Sep, 11:18- 11:24
W edge of Smile (31km NW of Luhansk)	1-2km SW	Heard	24	Shot		Small arms	14-Sep, 12:58- 13:04
SMM camera in Avdiivka (government-controlled, 17km N of Donetsk)	4-6km SE	Recorded	1	Illumination flare	In vertical flight	N/K	14-Sep, 21:25
	0.8-1.2km S	Recorded	1	Muzzle flash		N/K	14-Sep, 23:15
	0.5-1km S	Recorded	3	Projectile	W to E	N/K	14-Sep, 23:29
	0.5-1km SSE	Recorded	4	Muzzle flash		N/K	14-Sep, 23:30
	0.3-0.5km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:30
	0.3-0.5km S	Recorded	2	Explosion	Undetermined	N/K	14-Sep, 23:30
	0.3-0.5km SSW	Recorded	4	Muzzle flash	W. F. (1	N/K	14-Sep, 23:30
	0.3-0.5km S	Recorded	2	Projectile	W to E (subsequent to previous event)	N/K	14-Sep, 23:30
	0.3-0.5km S	Recorded	1	Projectile	W to E	N/K	14-Sep, 23:30
	0.3-0.5km SSW	Recorded	3	Muzzle flash	TT 1 1	N/K	14-Sep, 23:31
	0.3-0.5km SSE 0.3-0.5km SSW	Recorded Recorded	3	Explosion Explosion	Undetermined Undetermined	N/K N/K	14-Sep, 23:31
	0.3-0.5km S	Recorded	1	Projectile	W to E	N/K	14-Sep, 23:31 14-Sep, 23:32
	0.3-0.5km SSW	Recorded	1	Muzzle flash	WIOE	N/K	14-Sep, 23:32
	0.3-0.5km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:32
	0.5-1km SSE	Recorded	2	Explosion	Undetermined	N/K	14-Sep, 23:33
	0.5-1km S	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:34
	0.3-0.5km SSW	Recorded	3	Explosion	Undetermined	N/K	14-Sep, 23:34
	0.3-0.5km SSW	Recorded	2	Muzzle flash		N/K	14-Sep, 23:34
	0.3-0.5km S	Recorded	2	Explosion	Undetermined	N/K	14-Sep, 23:35
	0.3-0.5km SSW	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:35
	0.5-1km S	Recorded	1	Projectile	W to E	N/K	14-Sep, 23:35
CNOV (D) (1	0.2-0.4km S	Recorded	16	Muzzle flash		N/K	14-Sep, 23:38
SMM camera at Donetsk Filtration Station (15km N of	0.3-0.5km SSW	Recorded	16 5	Muzzle flash	Undetermined	N/K N/K	15-Sep, 00:29
	0.3-0.5km SSW 0.5-0.8km S	Recorded Recorded	5	Explosion Explosion	Undetermined Undetermined	N/K	15-Sep, 00:29 15-Sep, 00:29
Bonetsk)	0.3-0.8km S	Recorded	9	Projectile	WNW to ESE	N/K	15-Sep, 00:29
	0.3-0.8km SSW	Recorded	4	Muzzle flash	WITTE	N/K	15-Sep, 00:29
	0.3-0.8km S	Recorded	19	Projectile	W to E	N/K	15-Sep, 00:30
	0.5-1km S	Recorded	5	Muzzle flash		N/K	15-Sep, 00:30
	0.3-1km SSE	Recorded	3	Explosion	Undetermined	N/K	15-Sep, 00:30
	0.5-1km SSE	Recorded	1	Muzzle flash		N/K	15-Sep, 00:31
	0.3-0.5km SSW	Recorded	2	Muzzle flash		N/K	15-Sep, 00:31
	0.3-1km SSW	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 00:31
	0.3-0.5km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 00:32
	0.7-1.2km S	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 00:32
	0.3-0.7km S	Recorded	25	Projectile	W to E	N/K	15-Sep, 00:32
	0.3-0.7km S	Recorded	11	Projectile Muzzle flash	W to E	N/K N/K	15-Sep, 00:33
	0.3-0.7km SSW 0.3-0.7km SSE	Recorded Recorded	2 2	Explosion	Undetermined	N/K N/K	15-Sep, 00:33 15-Sep, 00:33
	0.2-0.4km SSW	Recorded	4	Muzzle flash	Shacterininea	N/K	15-Sep, 00:34
	0.8-1.2km S	Recorded	1	Explosion	Subsequent to previous event	N/K	15-Sep, 00:35
	0.3-0.6km SSW	Recorded	2	Muzzle flash	CVCIII	N/K	15-Sep, 00:35
	0.3-0.8km S	Recorded	2	Projectile	NW to SE (subsequent to previous event)	N/K	15-Sep, 00:35
	0.6-0.8km SSE	Recorded	2	Explosion	Subsequent to previous event	N/K	15-Sep, 00:35
	0.6-1km S	Recorded	2	Muzzle flash	CVOIII	N/K	15-Sep, 00:35
	O.O IKIII D	recorded		THULLIC HUSH		1 1/ 1X	15 Scp, 00.55

0.8- 0.8- 0.3- 0.7- 0.3- 0.6- 0.2- 0.2- 0.4- 0.8- 0.3- 0.3- 0.3- 0.3- 0.3-	1km S 1km S 1km SSE 1km S 0.5km SSW 1.5km SSW 1km S 1km S 1km SSE 0.4km SSE	Recorded	1 1 1 13 3 1 1 1	Projectile Explosion Explosion Explosion Explosion Projectile Projectile	NW to SE Subsequent to previous event Airburst, Subsequent to previous event Undetermined Undetermined NW to SE	N/K N/K N/K N/K N/K	15-Sep, 00:35 15-Sep, 00:35 15-Sep, 00:36 15-Sep, 00:36
0.8- 0.3- 0.3- 0.7- 0.3- 0.6- 0.2- 0.2- 0.4- 0.8- 0.3-	1km SSE 1km S 0.5km SSW 1.5km SSW 11km S 1km S 1km SSE 0.4km SSW 0.4km S	Recorded Recorded Recorded Recorded Recorded Recorded Recorded Recorded	1 13 3 1 1	Explosion Explosion Explosion Projectile	event Airburst, Subsequent to previous event Undetermined Undetermined	N/K N/K	15-Sep, 00:36 15-Sep, 00:36
0.3- 0.3- 0.7- 0.3- 0.6- 0.2- 0.2- 0.4- 0.8- 0.3- 0.3-	1km S 0.5km SSW 1.5km SSW 1.5km SSW 1km S 1km SSE 0.4km SSW	Recorded Recorded Recorded Recorded Recorded Recorded Recorded	13 3 1 1	Explosion Explosion Projectile	previous event Undetermined Undetermined	N/K	15-Sep, 00:36
0.3- 0.7- 0.3- 0.6- 0.2- 0.2- 0.4- 0.8- 0.3- 0.3-	0.5km SSW 1.5km SSW 1km S 1km SSE 0.4km SSW 0.4km S	Recorded Recorded Recorded Recorded Recorded	3 1 1 1	Explosion Projectile	Undetermined		
0.7- 0.3- 0.6- 0.2- 0.2- 0.4- 0.8- 0.3- 0.3-	1.5km SSW 1km S 1km SSE 0.4km SSW 0.4km S	Recorded Recorded Recorded Recorded	1 1 1	Projectile		N/K	15 Cam 00.26
0.3- 0.6- 0.2- 0.2- 0.4- 0.8- 0.3- 0.3-	Ikm S Ikm SSE 0.4km SSW 0.4km S	Recorded Recorded Recorded			NW to SE		15-Sep, 00:36
0.6- 0.2- 0.2- 0.4- 0.8- 0.3- 0.3-	1km SSE 0.4km SSW 0.4km S 1km SSE	Recorded Recorded		Projectile		N/K	15-Sep, 00:36
0.2- 0.2- 0.4- 0.8- 0.3- 0.3-	0.4km SSW 0.4km S 1km SSE	Recorded			NW to SE	N/K	15-Sep, 00:37
0.2- 0.4- 0.8- 0.3- 0.3-	0.4km S 1km SSE		2	Explosion	Impact. Subsequent to previous event	N/K	15-Sep, 00:37
0.4- 0.8- 0.3- 0.3-	1km SSE	Recorded		Muzzle flash		N/K	15-Sep, 00:39
0.8- 0.3- 0.3-			1	Projectile	W to E (subsequent to previous event)	N/K	15-Sep, 00:39
0.3- 0.3-	11 0	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 00:39
0.3-		Recorded	1	Projectile	SSW to NNE	N/K	15-Sep, 00:43
	0.5km S	Recorded	1	Muzzle flash		N/K	15-Sep, 00:43
	0.8km S	Recorded	3	Projectile	W to E	N/K	15-Sep, 00:44
0.3-	0.7km S	Recorded	1	Muzzle flash		N/K	15-Sep, 00:45
0.5-	1km S	Recorded	1	Burst	SE to NW (approximately 25 rounds)	N/K	15-Sep, 00:45
	cm S	Recorded	1	Projectile	N to S	N/K	15-Sep, 00:46
	1km S	Recorded	2	Projectile	NW to SE	N/K	15-Sep, 00:47
	1km S	Recorded	1	Muzzle flash		N/K	15-Sep, 00:47
	1km SSW	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 00:49
	1km S	Recorded	7	Projectile	ESE to WNW	N/K	15-Sep, 00:49
	0.5km S	Recorded	2	Muzzle flash		N/K	15-Sep, 00:49
	1km S	Recorded	3	Muzzle flash	<u> </u>	N/K	15-Sep, 00:50
	1km S	Recorded	4	Projectile	E to W	N/K	15-Sep, 00:50
	1km S	Recorded	6	Projectile	E to W	N/K	15-Sep, 00:51
	0.8km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 00:54
	0.8km S	Recorded	3	Projectile	W to E	N/K N/K	15-Sep, 01:05
	0.4km S 0.8km S	Recorded Recorded	1	Explosion Projectile	Undetermined W to E	N/K	15-Sep, 01:05 15-Sep, 01:06
	1km S	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:06
	1km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:09
	cm SSW	Recorded	1	Illumination flare	In vertical flight	N/K	15-Sep, 01:12
	0.5km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:17
	0.5km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:21
0.2-	0.4km SSW	Recorded	2	Muzzle flash		N/K	15-Sep, 01:29
0.6-	0.8km SSW	Recorded	1	Muzzle flash		N/K	15-Sep, 01:29
0.5-	0.8km S	Recorded	4	Explosion	Undetermined	N/K	15-Sep, 01:31
0.8-	1km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:31
0.2-	0.4km SSW	Recorded	6	Muzzle flash		N/K	15-Sep, 01:31
	0.8km SSW	Recorded	2	Muzzle flash		N/K	15-Sep, 01:31
	0.5km SSW	Recorded	5	Explosion	Undetermined	N/K	15-Sep, 01:31
	1km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:32
	0.8km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:32
	0.4km SSW 0.8km S	Recorded	2	Muzzle flash Muzzle flash		N/K N/K	15-Sep, 01:32
	0.8km S 0.8km S	Recorded Recorded	1	Muzzle flash Explosion	Undetermined	N/K N/K	15-Sep, 01:32
	0.8km S	Recorded	1	Muzzle flash	Onucterfillieu	N/K N/K	15-Sep, 01:33 15-Sep, 01:33
	0.4km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:33
	0.7km S	Recorded	1	Projectile	WNW to ESE	N/K	15-Sep, 01:33
	0.4km SSW	Recorded	3	Explosion	Undetermined	N/K	15-Sep, 01:35
	0.4km SSW	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 01:36
	0.4km SSW	Recorded	1	Muzzle flash		N/K	15-Sep, 01:36
	0.4km SSW	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 01:37
	0.4km SSW	Recorded	1	Muzzle flash		N/K	15-Sep, 01:37
	0.5km S	Recorded	1	Projectile		N/K	15-Sep, 01:37
0.8-	1km SSE	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:38
	1km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 01:38
	1km SSE	Recorded	2	Explosion	Undetermined	N/K	15-Sep, 01:40
	1km SSE	Recorded	1	Muzzle flash		N/K	15-Sep, 01:43
	1km S	Recorded	1	Illumination flare	In vertical flight	N/K	15-Sep, 01:43
	0.8km SSW	Recorded	1	Muzzle flash		N/K	15-Sep, 01:43
	0.6km SSW	Recorded	1	Muzzle flash		N/K	15-Sep, 01:46
	1km SSE	Recorded	1	Muzzle flash	¥ ,1 1 011 1	N/K	15-Sep, 01:47
0.8-	1km SSE	Recorded	1	Illumination flare	In vertical flight	N/K	15-Sep, 01:47

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	0.2-0.4km SSW	Recorded	1	Explosion	Outgoing	N/K	15-Sep, 01:49
	0.2-0.4km SSW	Recorded	2	Explosion	Outgoing	N/K	15-Sep, 01:50
	0.8-1.2km SSE	Recorded	1	Illumination flare		N/K	15-Sep, 01:54
	0.2-0.4km SSW	Recorded	1	Explosion	Outgoing	N/K	15-Sep, 01:55
	0.6-0.8km SSE	Recorded	2	Explosion	Impact	N/K	15-Sep, 01:55
	0.4-0.6km SSW	Recorded	1	Explosion	Undetermined	N/K	15-Sep, 02:09
	0.5-1.5km SSW	Recorded	1	Projectile	NW to SE	N/K	15-Sep, 02:32
	0.5-1.5km SSW	Recorded Recorded	6	Projectile Projectile	W to E W to E	N/K N/K	15-Sep, 02:48
	0.8-1.2km S 0.8-1.5km SSW	Recorded	1	Projectile	NNW to SSE	N/K	15-Sep, 02:49 15-Sep, 02:49
	1-2km SSW	Recorded	2	Projectile	NNW to SSE	N/K	15-Sep, 02:49
	0.5-1.5km SSW	Recorded	1	Projectile	NNW to SSE	N/K	15-Sep, 03:07
	0.8-1km S	Recorded	4	Projectile	WNW to ESE	N/K	15-Sep, 03:51
	0.8-1km S	Recorded	4	Projectile	WNW to ESE	N/K	15-Sep, 03:52
	0.8-1km S	Recorded	1	Projectile	WNW to ESE	N/K	15-Sep, 04:21
SMM camera 1.5km NE of	3-5km E	Recorded	1	Projectile	NW to SE	N/K	14-Sep, 22:37
Hnutove (government- controlled, 20km NE of Mariupol)	3-5km ESE	Recorded	1	Projectile	SW to NE	N/K	15-Sep, 03:32
SMM camera in Hranitne	2-4km E	Recorded	1	Explosion	Airburst	N/K	14-Sep, 22:06
(government-controlled, 60km S of Donetsk)	2-4km E	Recorded	1	Projectile	NW to SE	N/K	14-Sep, 22:06
5 of Donesk)	3-4km E	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 21:46
	3-4km ENE	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 21:46
	1-3km ENE	Recorded	2	Projectile	N to S	N/K	14-Sep, 21:46
	1-3km ESE	Recorded	3	Explosion	Undetermined	N/K	14-Sep, 23:13
C) O) (	1-3km ESE	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:15
SMM camera at entry-exit checkpoint in Maiorsk	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	14-Sep, 23:34
(government-controlled, 45km	3-4km ENE	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:34
NE of Donetsk)	3-4km ENE	Recorded	1	Burst	SW to NE (approximately 20 rounds)	N/K	14-Sep, 23:44
	1-3km ENE	Recorded	1	Projectile	NNW to SSE	N/K	15-Sep, 00:11
	1-3km E	Recorded	3	Projectile	N to S	N/K	15-Sep, 02:37
	1-3km E	Recorded	16	Projectile	N to S	N/K	15-Sep, 02:38
SMM camera at entry-exit checkpoint in Marinka	1-3km NNE	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 22:50
(government-controlled, 23km SW of Donetsk)	1-3km NNE	Recorded	1	Explosion	Undetermined	N/K	14-Sep, 23:17
	4-6km S	Recorded	5	Projectile	NE to SW	N/K	14-Sep, 02:33
	4-6km SSE	Recorded	1	Projectile	NE to SW	N/K	14-Sep, 02:54
	4-6km SSE	Recorded	1	Projectile	NE to SW	N/K	14-Sep, 03:29
	4-6km S	Recorded	7	Projectile	NW to SE	N/K	14-Sep, 03:29
	4-6km S	Recorded	6	Projectile	NW to SE	N/K	14-Sep, 03:32
	4-6km S	Recorded	1	Projectile	NW to SE	N/K	14-Sep, 03:38
	4-6km S	Recorded	1	Explosion	Impact, subsequent to previous event	N/K	14-Sep, 03:38
	4-6km S	Recorded	3	Projectile	NE to SW	N/K	14-Sep, 03:58
	4-6km S	Recorded	2	Projectile	NE to SW	N/K	14-Sep, 04:02
	4-6km S	Recorded	3	Projectile	W to E	N/K	14-Sep, 04:57
	4-6km S	Recorded	1	Projectile	NE to SW	N/K	14-Sep, 04:57
	4-6km S	Recorded	2	Projectile	E to W	N/K	14-Sep, 20:35
SMM camera at entry-exit	4-6km SSE	Recorded	1	Projectile	NE to SW	N/K	14-Sep, 20:35
checkpoint in Pyshchevyk	4-6km S	Recorded Recorded	4	Projectile	W to E W to E	N/K N/K	14-Sep, 20:35
(government-controlled, 25km	4-6km S 4-6km S	Recorded	5	Projectile Projectile	NE to SW	N/K	14-Sep, 20:39 14-Sep, 20:52
NE of Mariupol)	4-6km S	Recorded	4	Projectile	W to E	N/K	14-Sep, 20:52
	4-6km S	Recorded	2	Projectile	NNW to SSE	N/K	14-Sep, 20:52
	4-6km S	Recorded	16	Projectile Projectile	W to E	N/K N/K	14-Sep, 20:52 14-Sep, 20:53
	4-6km S	Recorded	6	Projectile	ENE to WSW	N/K	14-Sep, 20:53
	4-6km S	Recorded	2	Projectile	NNW to SSE	N/K	14-Sep, 20:53
	4-6km S	Recorded	2	Projectile	W to E	N/K	14-Sep, 22:57
	4-6km S	Recorded	1	Projectile	W to E	N/K	14-Sep, 22:58
	4-6km S	Recorded	5	Projectile	W to E	N/K	14-Sep, 22:59
	4-6km S	Recorded	2	Projectile	W to E	N/K	14-Sep, 23:09
	4-6km SSE	Recorded	3	Projectile	W to E	N/K	14-Sep, 23:25
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	14-Sep, 23:29
	4-6km SSE	Recorded	3	Projectile	W to E	N/K	14-Sep, 23:33
	4-6km SSE	Recorded	2	Projectile	NNE to SSW	N/K	14-Sep, 23:33
	4-6km SSE	Recorded	5	Projectile	W to E	N/K	14-Sep, 23:34

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km SSE	Recorded	3	Projectile	NNW to SSE	N/K	14-Sep, 23:34
	4-6km SSE	Recorded	1	Projectile	NNE to SSW	N/K	14-Sep, 23:36
	4-6km SSE	Recorded	1	Projectile	NNW to SSE	N/K	14-Sep, 23:36
	4-6km SSE	Recorded	1	Projectile	W to E	N/K	14-Sep, 23:36
	4-6km S	Recorded	2	Projectile	E to W	N/K	14-Sep, 23:59
	4-6km SSE	Recorded	2	Projectile	ENE to WSW	N/K	15-Sep, 00:47
	4-6km SSE	Recorded	9	Projectile	W to E	N/K	15-Sep, 01:17
	4-6km SSE	Recorded	4	Projectile	E to W	N/K	15-Sep, 01:20
0.04	4-6km S	Recorded	1	Projectile	W to E	N/K	15-Sep, 01:45
SMM camera in Svitlodarsk (government-controlled, 57km NE of Donetsk)	5-7km ENE	Recorded	17	Projectile	N to S	N/K	14-Sep, 20:55
	1km N	Heard	2	Burst		Small arms	15-Sep, 10:04
	1km N	Heard	5	Shot		Small arms	15-Sep, 10:04
	1km N	Heard	3	Burst		Small arms	15-Sep, 11:06
	3km NW	Heard	4	Shot		Small arms	15-Sep, 11:18
About 1km, NNE of Donetsk	2.5-3km NE	Heard	3	Shot		Small arms	15-Sep, 11:24
central railway station(non-	3km SW	Heard	1	Shot	**	Small arms	15-Sep, 12:27
government-controlled, 6km	4-5km SW	Heard	2	Explosion	Undetermined	N/K	15-Sep, 12:29
NW of Donetsk)	4-5km W	Heard	1	Explosion	Undetermined	N/K	15-Sep, 12:35
	4-5km SW	Heard	1	Explosion	Undetermined	N/K	15-Sep, 12:37
	4km SW 3km SW	Heard	1	Explosion	Undetermined	N/K Small arms	15-Sep, 12:39
		Heard	1	Shot	TT 1 ( 1 1	N/K	15-Sep, 12:45
A1 (11 NYX) C(1 '1	4-5km W	Heard	2	Explosion	Undetermined	- "	15-Sep, 12:55
About 1km NW of the railway	2-3km WNW	Heard	2	Shot		Small arms	15-Sep, 09:05
station in Yasynuvata (non- government-controlled, 16km NE of Donetsk)	2-3km WNW	Heard	3	Shot		Small arms	15-Sep, 09:11- 09:14
About 1km W of Verkhnoshyrokivske (formerly Oktiabr, non-government- controlled, 29km NE of Mariupol)	1-2km NW	Heard	Uncount able	Shots and bursts	Undetermined (Also HMG)	Small arms	15-Sep, 13:49
•	3-5km ESE	Heard	1	Explosion	Undetermined	N/K	14-Sep, 20:51
	2-3km E	Heard	8	Burst		Small arms	14-Sep, 22:13
	2-3km E	Heard	4	Burst		Small arms	14-Sep, 22:52
	2-3km E	Heard	7	Burst		Small arms	14-Sep, 22:54
Svitlodarsk FPB (government-	3-5km E	Heard	1	Explosion	Undetermined	N/K	14-Sep, 22:54
controlled, 57km NE of Donetsk)	6-8km E	Heard	7	Explosion	Undetermined	N/K	14-Sep, 23:15- 23:16
	6-8km SSE	Heard	7	Explosion	Undetermined	N/K	14-Sep, 23:16- 23:17
	6-8km SSW	Heard	17	Explosion	Undetermined	N/K	14-Sep, 23:54- 23:58
	2-3km SE	Heard	1	Explosion	Undetermined	N/K	15-Sep, 17:57
	4-6km NW	Heard	10	Explosion	Undetermined	N/K	14-Sep, 23:14- 23:16 14-Sep, 23:35-
	4-6km NW	Heard	4	Explosion	Undetermined	N/K	23:36 14-Sep, 23:45-
	4-6km NW	Heard	4	Explosion	Undetermined	N/K	23:46 14-Sep, 23:49-
	4-6km NW	Heard	22	Explosion	Undetermined	N/K	23:54 14-Sep, 23:55-
	4-6km NW	Heard	8	Explosion	Undetermined	N/K	23:57 15-Sep, 00:02-
Horlivka FPB (non-	4-6km NW	Heard	6	Explosion	Undetermined	N/K	00:03 15-Sep, 00:15-
government-controlled, 39km NE of Donetsk)	4-6km NW	Heard	3	Explosion	Undetermined	N/K	00:17
	4-6km NW	Heard	2	Explosion	Undetermined	N/K	15-Sep, 00:17- 00:18
	4-6km NW	Heard	23	Burst		HMG	15-Sep, 00:30- 00:33
	4-6km NW	Heard	6	Explosion	Undetermined	N/K	15-Sep, 00:33- 00:34
	4-6km NW	Heard	18	Burst		HMG	15-Sep, 00:33- 00:35
	4-6km NW	Heard	6	Explosion	Undetermined	N/K	15-Sep, 00:37- 00:38
	4-6km NW	Heard	20	Burst		HMG	15-Sep, 00:39- 00:40

SMM position	Event location	Means	No.	Observation	Description	Weapon	Date, time
	4-6km NW	Heard	4	Explosion	Undetermined	N/K	15-Sep, 00:43- 00:44
	4-6km NW	Heard	6	Burst		HMG	15-Sep, 00:44- 00:46
	2-4km NW	Heard	35	Burst		HMG	15-Sep, 08:15- 08:30
N edge of Popasna (government-controlled, 69km W of Luhansk)	10-15km S	Heard	43	Explosion	Undetermined	N/K	14-Sep, 23:30- 00:05