



# FIRE WATER TANK 851 A

Vedanta Cairn oil & Gas division			
Project Name	FIRE WATER TANK 851 A	Report number	VOLAT-T-851-A-EMAT
Location	Raageshwari Gas terminal, Barmer	Client representative	Simon Doss

Asset Information			
Asset	FIRE WATER TANK	Inspection date	2024-05-15
Asset type	CARBONSTEEL	Report date	2024-05-24
Asset number	851 A		

Inspection Service Provider			
Name	VOLAR ALTA PVT LTD	NDT technician	KRISHNAN M Lv 2 NDT
Drone pilot 1	RIYAZ R	Drone pilot 2	SUDHAKAR RAJ MM

Acceptance Criteria	
Inspection procedure	ASTM E797M-10
Acceptance criteria	COMPARE WITH MANUEL UT WITH 0.2 mm

Operator		Reviewer		Client Acceptance	
Name		Name		Name	
Date		Date		Date	
Signature		Signature		Signature	

Inspection Equipment - Drone			
Name	VOLIRO T	Serial number	2339
Operating mode	Untethered		

Inspection Equipment - NDT			
Device Type	EMAT Ultrasonic Sensor	Manufacturer	Voliro AG
Serial number	000164-0024	Probe frequency	3.5-4 MHz
Calibration	10 mm	Calibration temperature	AMBIENT
Factory Calibration Date	2024-04-01	Couplant	NA
Scan type	A	Step size	10 mm

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# 1 Summary

NA

## 1.1 Main Findings

NA

## 1.2 Main Recommendations

2 Asset

2.1 Inspection Location : Vedanta fire water tank D 851 A 270 °

2.1.1 Inspection Location

2.1.2 Results

Table 2: Location Major Findings

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
1	15 May 2024, 09:02:17	10.030	R2	10	NA	No Reduction
2	15 May 2024, 09:02:38	10.320	R3	10	NA	No Reduction
3	15 May 2024, 09:02:59	8.020	R4	8	NA	No Reduction
4	15 May 2024, 09:03:18	8.020	R5	8	NA	No Reduction
5	15 May 2024, 09:03:44	8.140	R6	8	NA	No Reduction

Point 1

GPS position (latitude, longitude): 25.29970754, 71.75184383

Table 3: Details results for Point 1 on Location

Thickness [mm]	10.030	XYZ Coordinates [m]	4.07	0.47	4.80
Rotation	Pitch: -0.8°	Timestamp [s]	15 May 2024, 09:02:17		



Figure 1: Location - Point 1



Figure 2: Location - Point 1

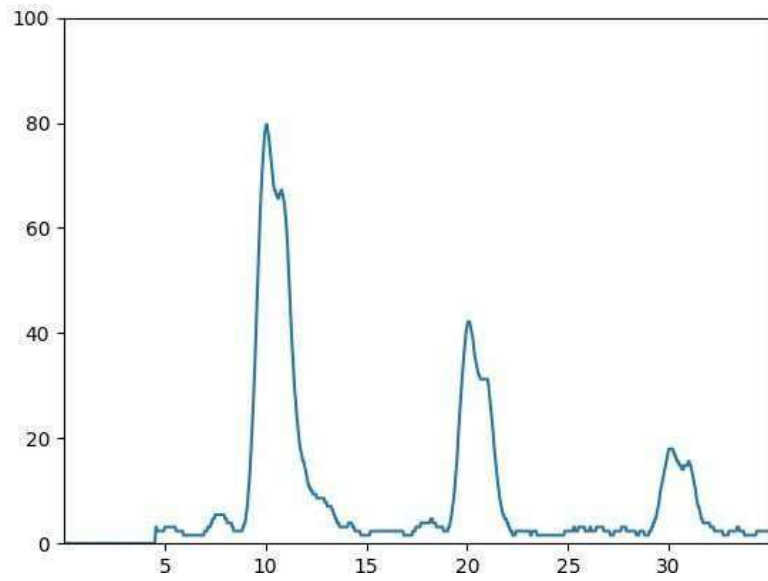


Figure 3: Location - Point 1

Point 2

GPS position (latitude, longitude): 25.29967036, 71.75191790

Table 4: Details results for Point 2 on Location

Thickness [mm]	10.320	XYZ Coordinates [m]	0.06	6.97	6.75
Rotation	Pitch: -0.0°	Timestamp [s]	15 May 2024, 09:02:38		

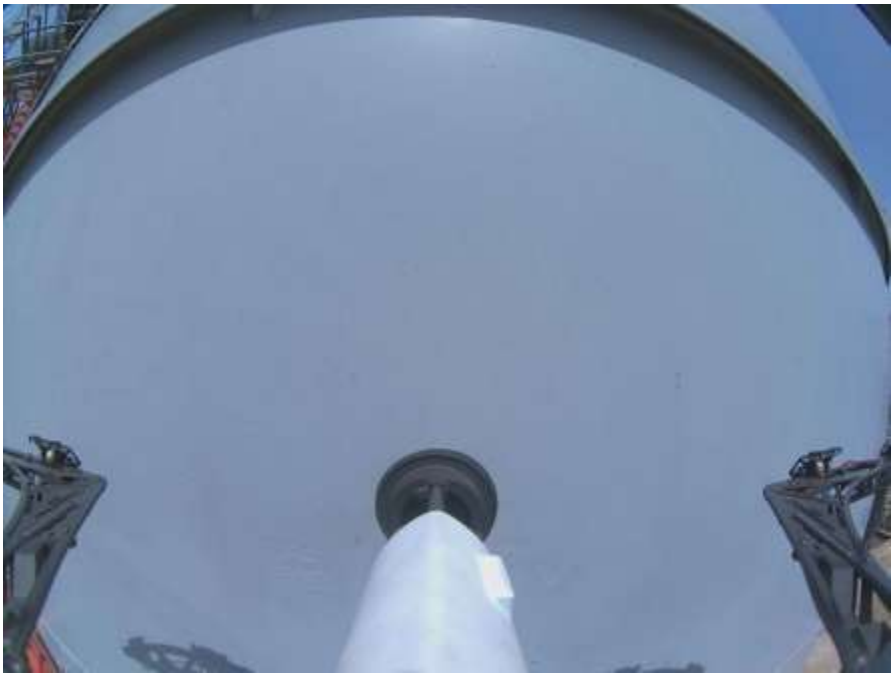


Figure 4: Location - Point 2



Figure 5: Location - Point 2



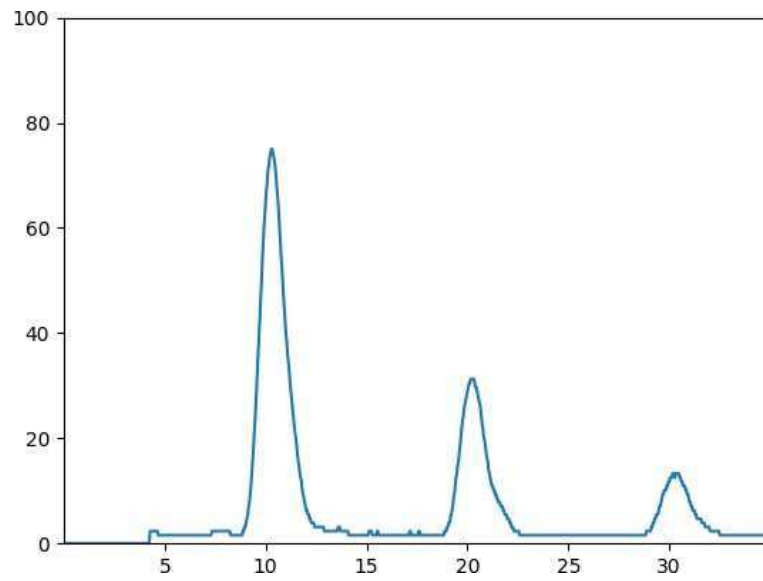


Figure 6: Location - Point 2

Point 3

GPS position (latitude, longitude): 25.29967075, 71.75191218

Table 5: Details results for Point 3 on Location

Thickness [mm]	8.020	XYZ Coordinates [m]	0.02	6.40	9.10
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 09:02:59		

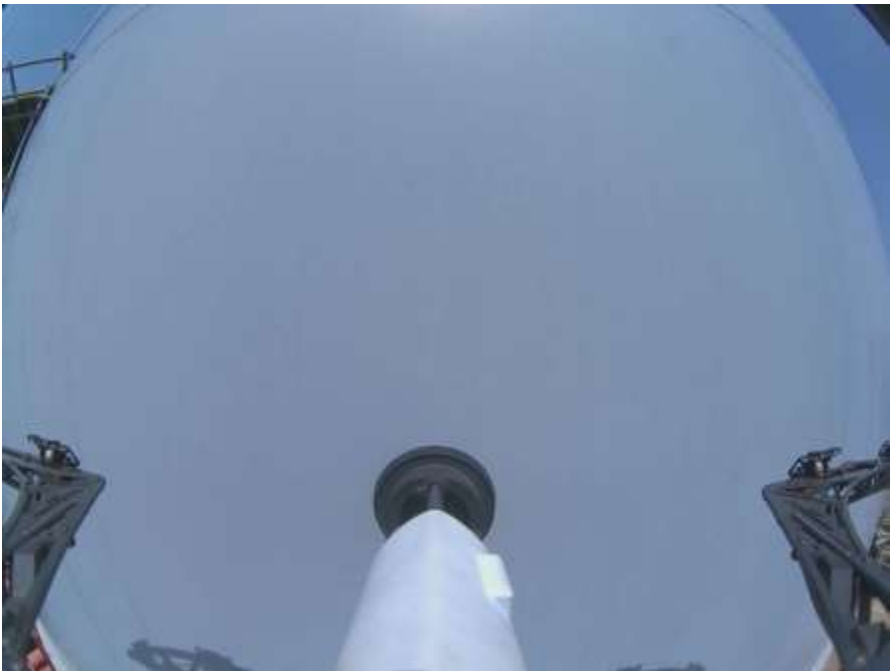


Figure 7: Location - Point 3



Figure 8: Location - Point 3

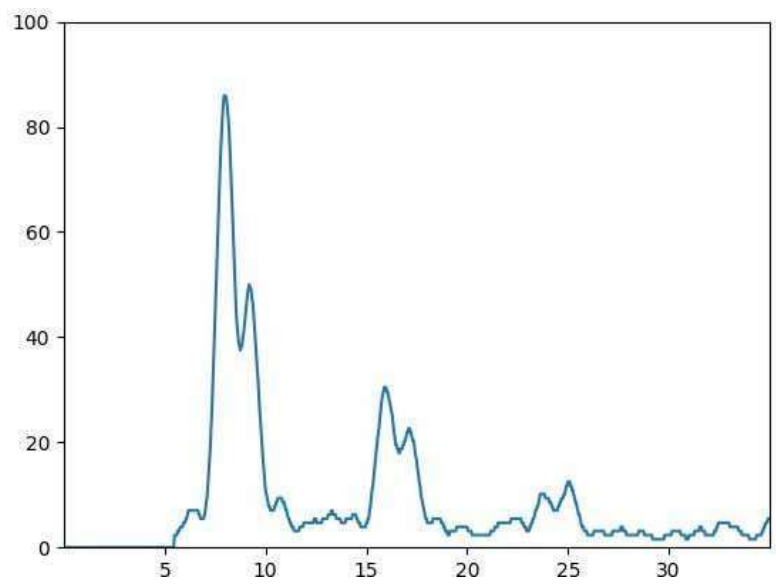


Figure 9: Location - Point 3

Point 4

GPS position (latitude, longitude): 25.29967056, 71.75190627

Table 6: Details results for Point 4 on Location

Thickness [mm]	8.020	XYZ Coordinates [m]	0.04	5.81	10.88
Rotation	Pitch: -0.2°	Timestamp [s]	15 May 2024, 09:03:18		



Figure 10: Location - Point 4



Figure 11: Location - Point 4

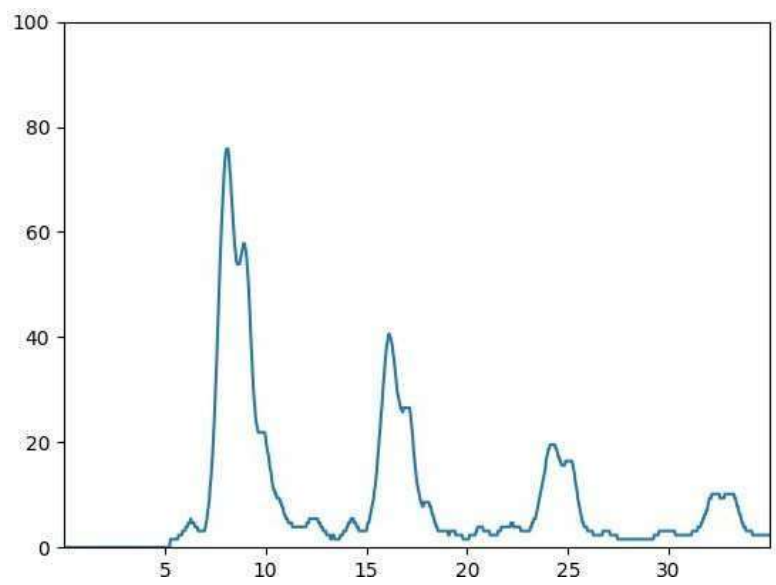


Figure 12: Location - Point 4

Point 5

GPS position (latitude, longitude): 25.29967128, 71.75190020

Table 7: Details results for Point 5 on Location

Thickness [mm]	8.140	XYZ Coordinates [m]	0.04	5.20	11.78
Rotation	Pitch: -0.2°	Timestamp [s]	15 May 2024, 09:03:44		

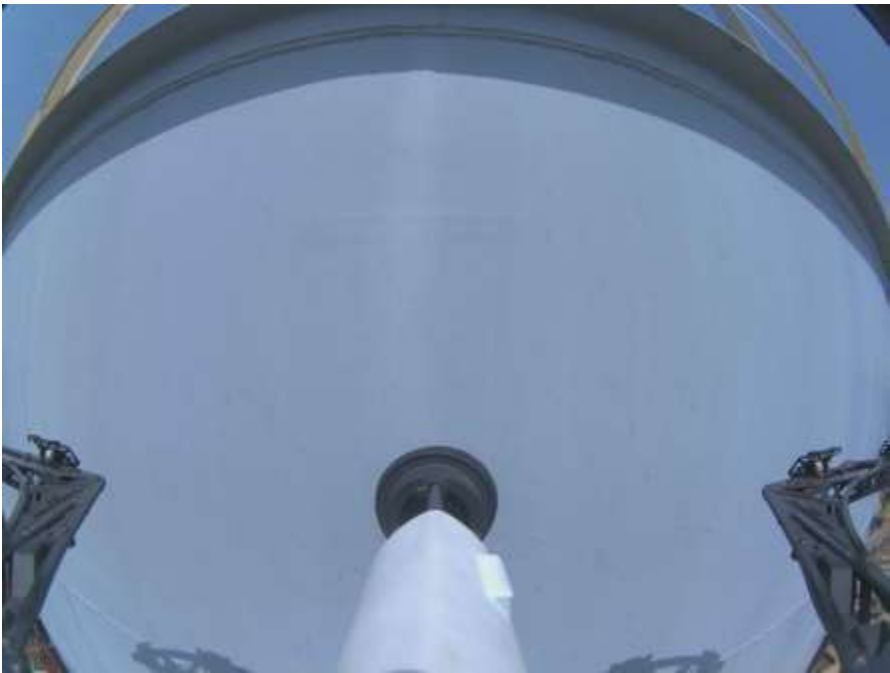


Figure 13: Location - Point 5



Figure 14: Location - Point 5

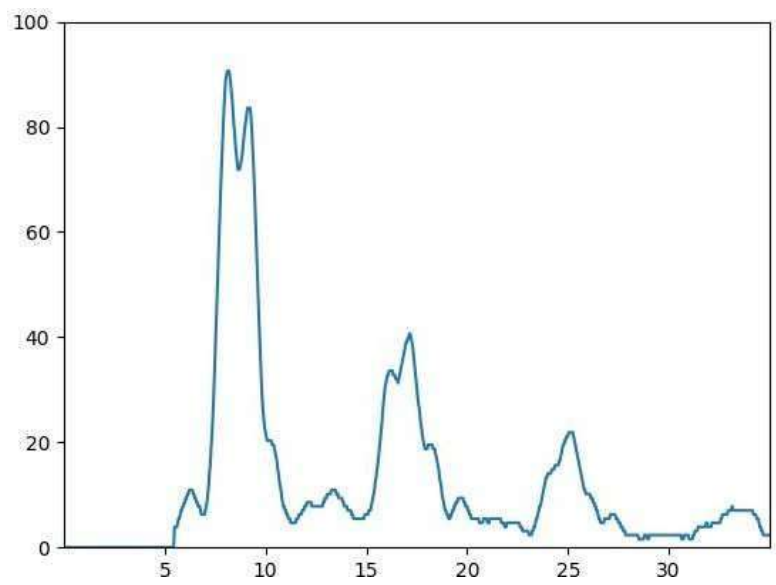


Figure 15: Location - Point 5

2.2 Inspection Location : Vedanta fire water tank D 851 A 225 °

2.2.1 Inspection Location

2.2.2 Results

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
6	15 May 2024, 09:04:16	7.900	R6	8	NA	No Reduction
7	15 May 2024, 09:04:34	8.180	R5	8	NA	No Reduction
8	15 May 2024, 09:04:53	8.340	R4	8	NA	No Reduction
9	15 May 2024, 09:05:13	10.320	R3	10	NA	No Reduction
10	15 May 2024, 09:05:39	10.720	R2	10	NA	No Reduction
11	15 May 2024, 09:06:06	10.360	R1	10	NA	No Reduction

Figure 17: Location - Point 6



Point 6

GPS position (latitude, longitude): 25.29963540, 71.75190696

Table 8: Details results for Point 6 on Location

Thickness [mm]	7.900	XYZ Coordinates [m]	3.95	5.88	11.50
Rotation	Pitch: -0.7°	Timestamp [s]	15 May 2024, 09:04:16		

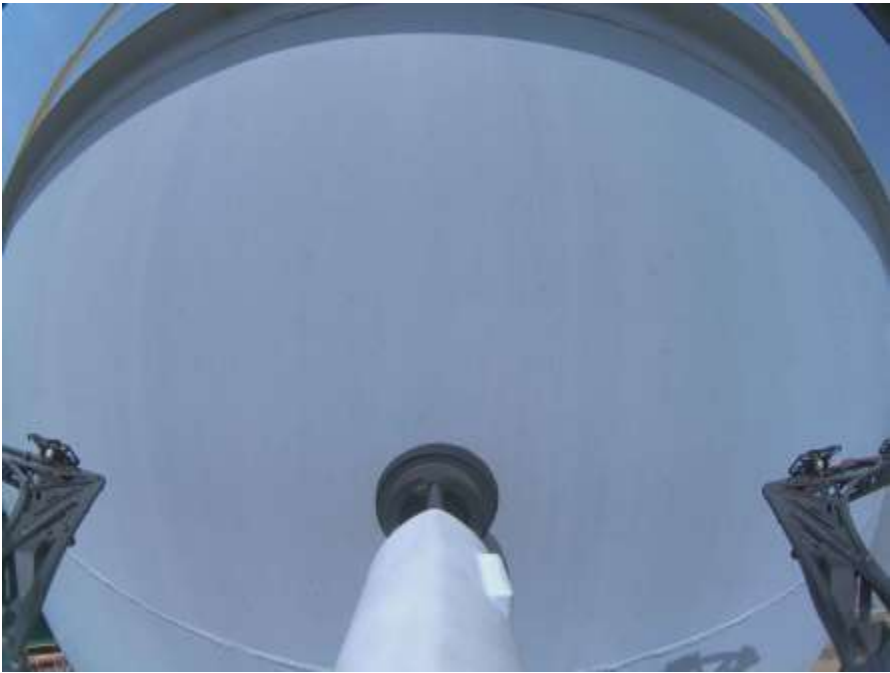


Figure 16: Location - Point 6

Figure 17: Location - Point 7



Figure 17: Location - Point 8

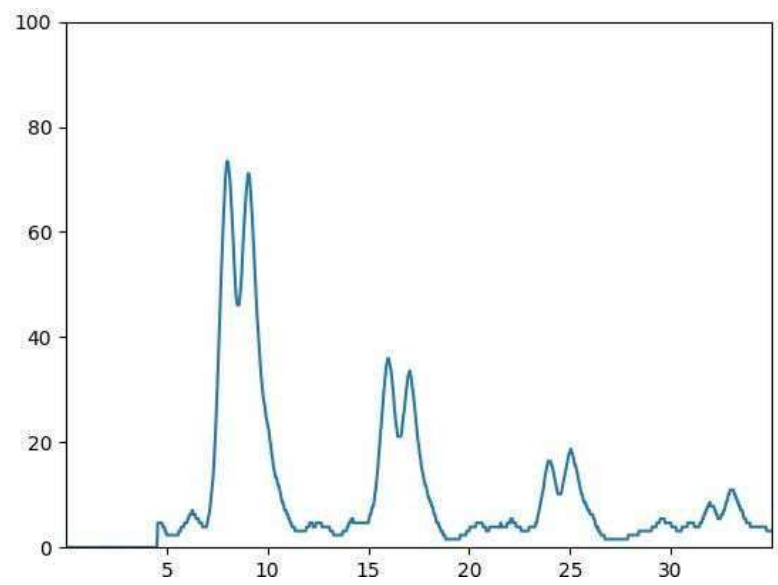


Figure 18: Location - Point 6

Point 7

GPS position (latitude, longitude): 25.29963462, 71.75190506

Table 9: Details results for Point 7 on Location

Thickness [mm]	8.180	XYZ Coordinates [m]	4.04	5.68	10.26
Rotation	Pitch: -0.3°	Timestamp [s]	15 May 2024, 09:04:34		

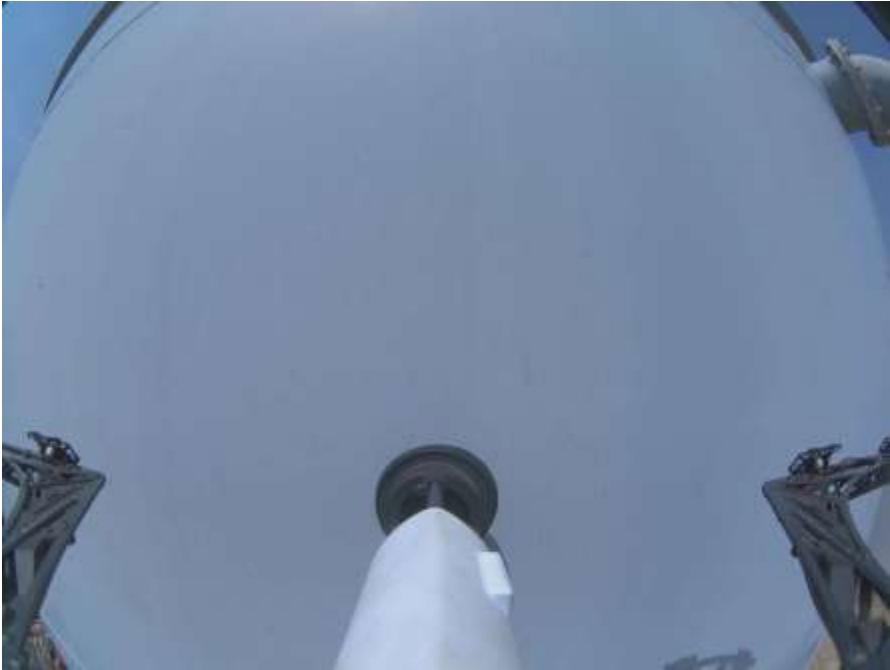


Figure 19: Location - Point 7



Figure 20: Location - Point 7

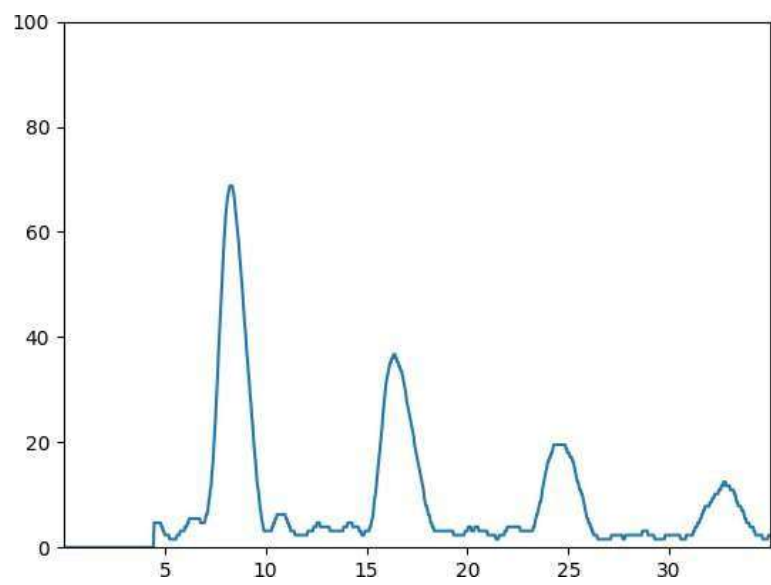


Figure 21: Location - Point 7

Point 8

GPS position (latitude, longitude): 25.29963407, 71.75190239

Table 10: Details results for Point 8 on Location

Thickness [mm]	8.340	XYZ Coordinates [m]	4.10	5.42	8.67
Rotation	Pitch: -0.1°	Timestamp [s]	15 May 2024, 09:04:53		

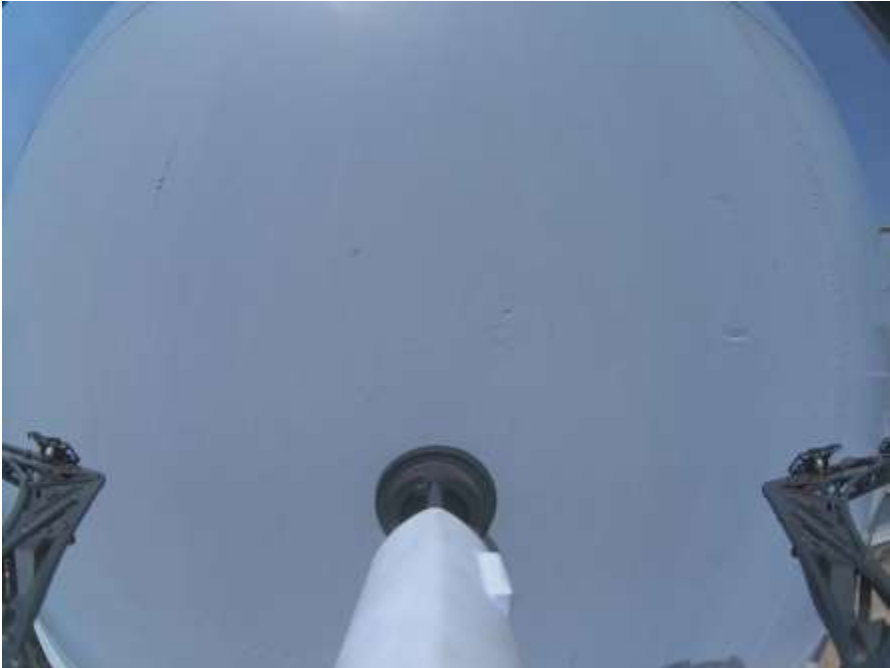


Figure 22: Location - Point 8



Figure 23: Location - Point 8

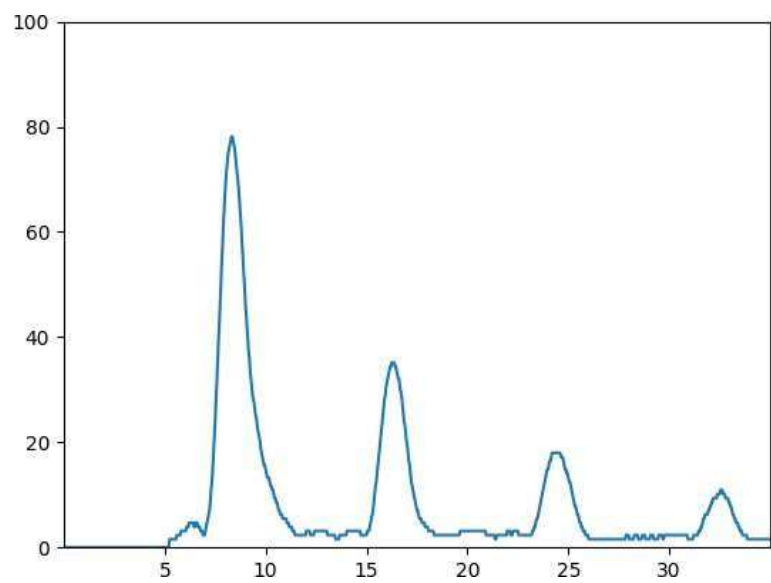


Figure 24: Location - Point 8

Point 9

GPS position (latitude, longitude): 25.29963182, 71.75189767

Table 11: Details results for Point 9 on Location

Thickness [mm]	10.320	XYZ Coordinates [m]	4.35	4.94	6.88
Rotation	Pitch: 0.1°	Timestamp [s]	15 May 2024, 09:05:13		

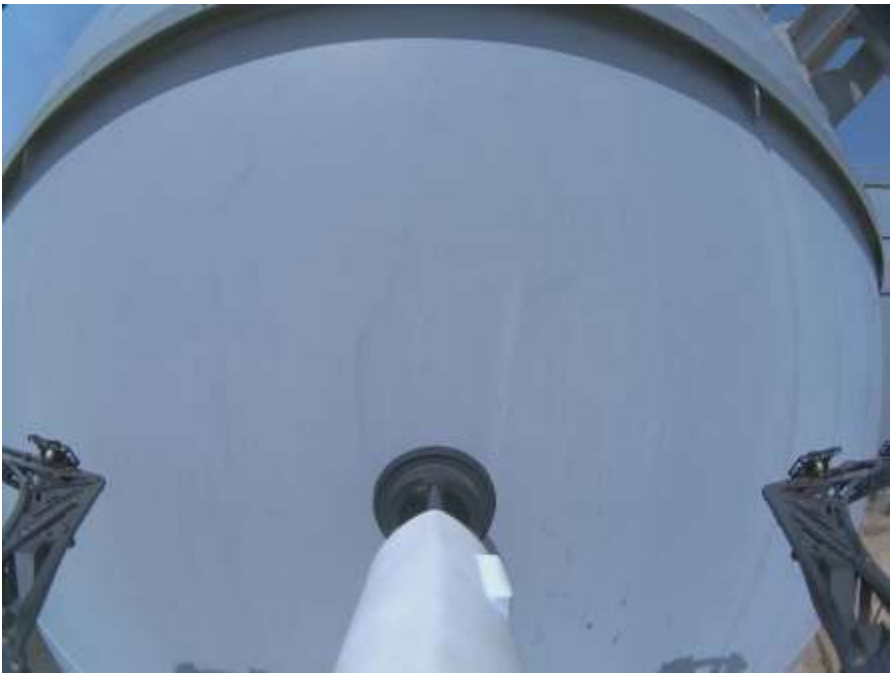


Figure 25: Location - Point 9



Figure 26: Location - Point 9



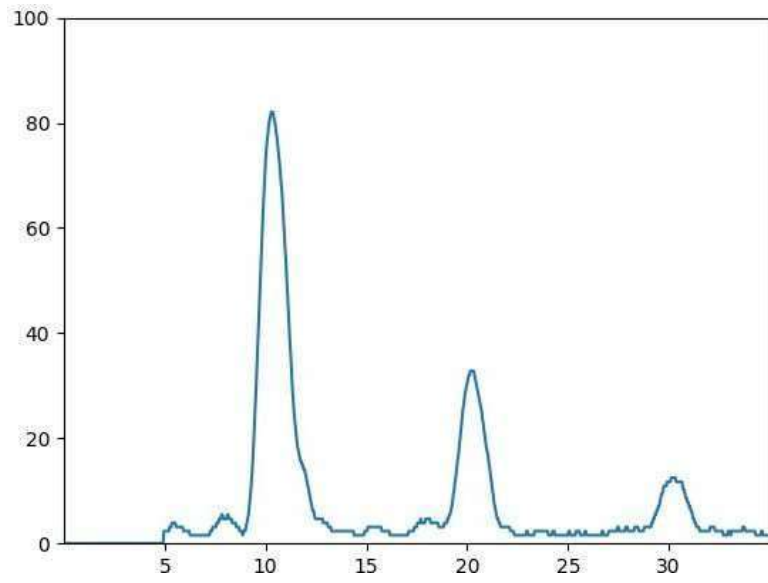


Figure 27: Location - Point 9

Point 10

GPS position (latitude, longitude): 25.29963053, 71.75189462

Table 12: Details results for Point 10 on Location

Thickness [mm]	10.720	XYZ Coordinates [m]	4.49	4.63	5.64
Rotation	Pitch: -1.4°	Timestamp [s]	15 May 2024, 09:05:39		

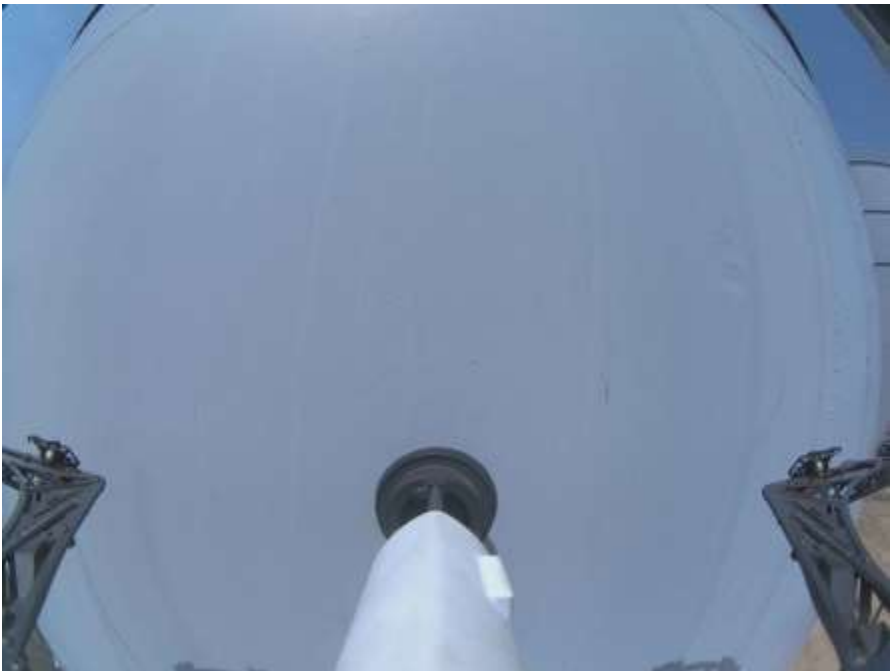


Figure 28: Location - Point 10



Figure 29: Location - Point 10

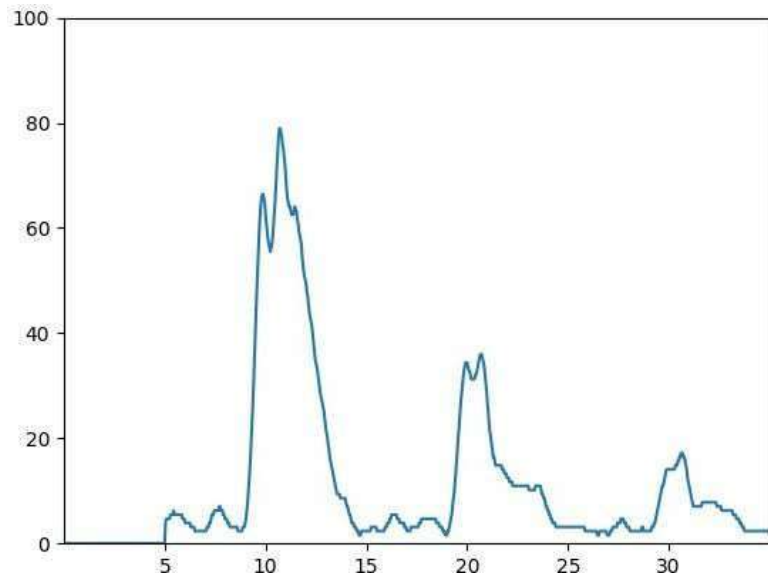


Figure 30: Location - Point 10

Point 11

GPS position (latitude, longitude): 25.29962924, 71.75189264

Table 13: Details results for Point 11 on Location

Thickness [mm]	10.360	XYZ Coordinates [m]	4.64	4.44	8.62
Rotation	Pitch: -0.2°	Timestamp [s]	15 May 2024, 09:06:06		

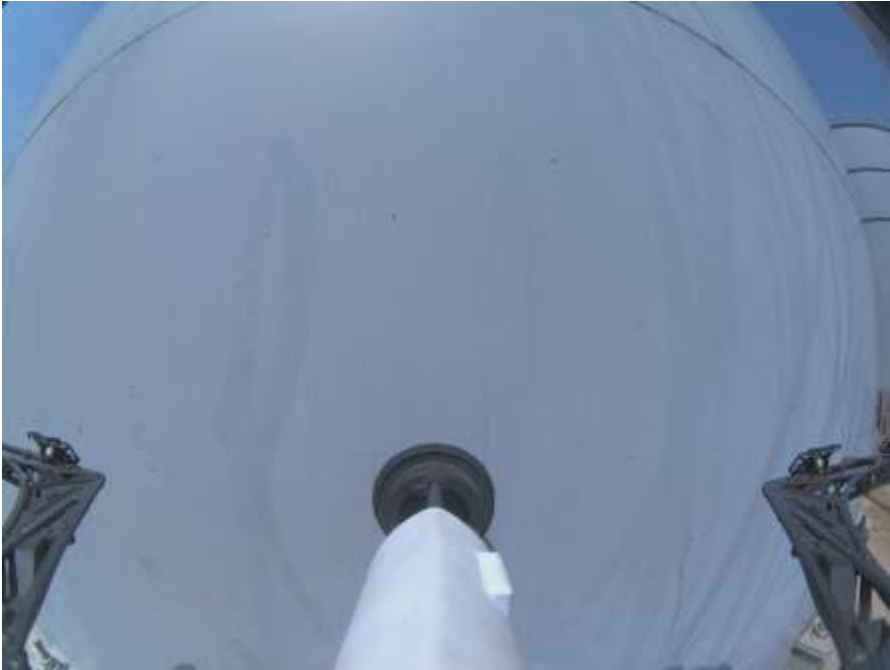


Figure 31: Location - Point 11



Figure 32: Location - Point 11

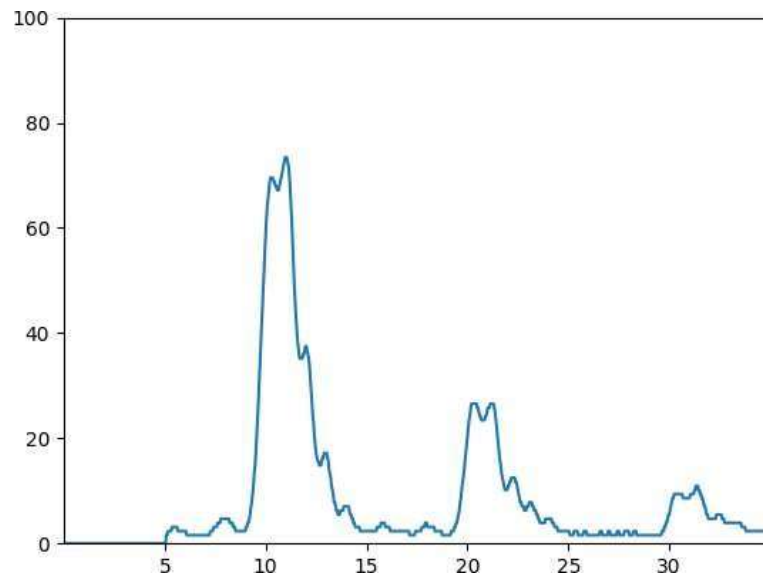


Figure 33: Location - Point 11

2.3 Inspection Location : Vedanta fire water tank D 851 A 180°

2.3.1 Inspection Location

2.3.2 Results

Table 14: Location Major Findings

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
1	15 May 2024, 09:57:56	14.350	R1	10	NA	No Reduction
2	15 May 2024, 09:58:17	10.030	R2	10	NA	No Reduction
3	15 May 2024, 09:58:39	9.950	R3	10	NA	No Reduction
4	15 May 2024, 09:59:00	8.620	R4	8	NA	No Reduction
5	15 May 2024, 09:59:21	7.940	R5	8	NA	No Reduction
6	15 May 2024, 09:59:42	7.900	R6	8	NA	No Reduction

Point 1

GPS position (latitude, longitude): 25.29962212, 71.75199353

Table 15: Details results for Point 1 on Location

Thickness [mm]	14.350	XYZ Coordinates [m]	5.28	1.95	3.54
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 09:57:56		

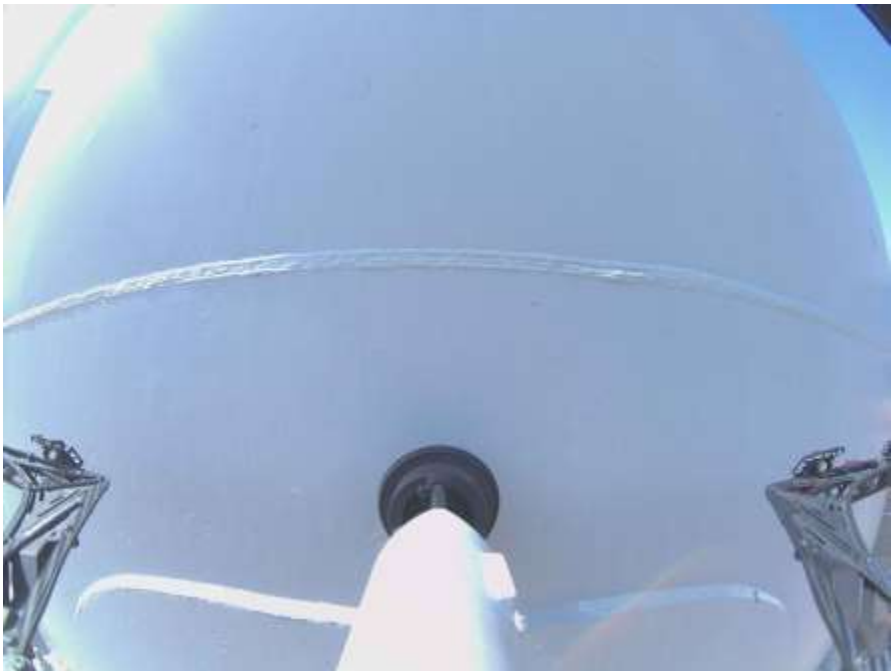


Figure 34: Location - Point 1



Figure 35: Location - Point 1

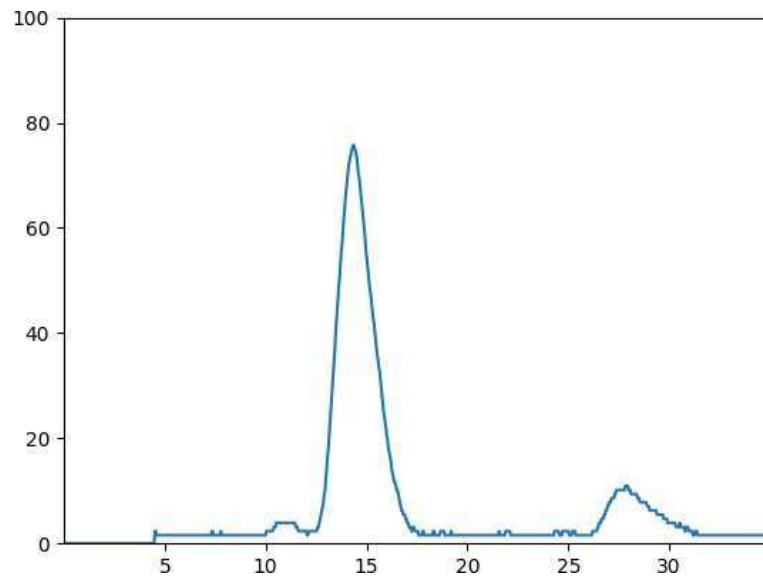


Figure 36: Location - Point 1



Point 2

GPS position (latitude, longitude): 25.29962185, 71.75199290

Table 16: Details results for Point 2 on Location

Thickness [mm]	10.030	XYZ Coordinates [m]	5.25	1.89	2.38
Rotation	Pitch: -1.0°	Timestamp [s]	15 May 2024, 09:58:17		

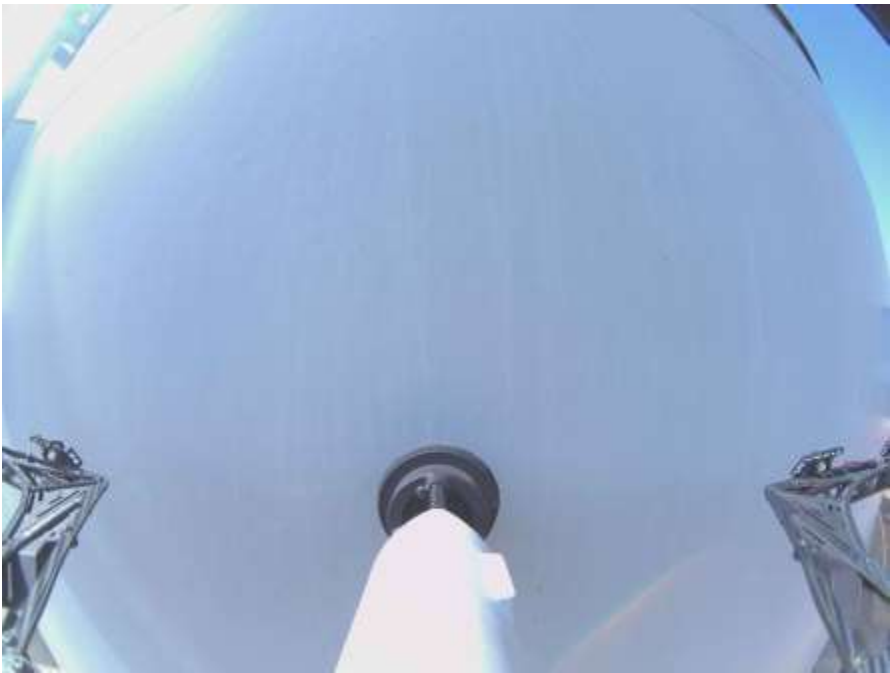


Figure 37: Location - Point 2



Figure 38: Location - Point 2

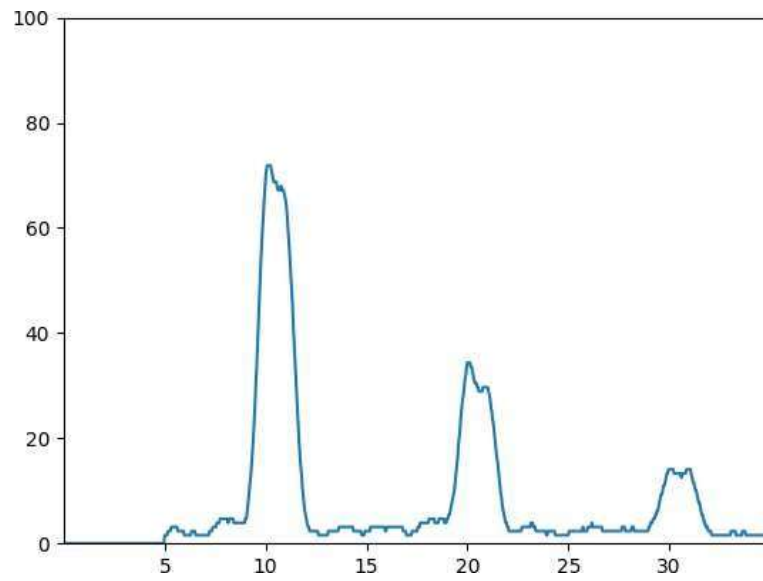


Figure 39: Location - Point 2

Point 3

GPS position (latitude, longitude): 25.29962148, 71.75199171

Table 17: Details results for Point 3 on Location

Thickness [mm]	9.950	XYZ Coordinates [m]	5.21	1.77	0.69
Rotation	Pitch: -0.2°	Timestamp [s]	15 May 2024, 09:58:39		

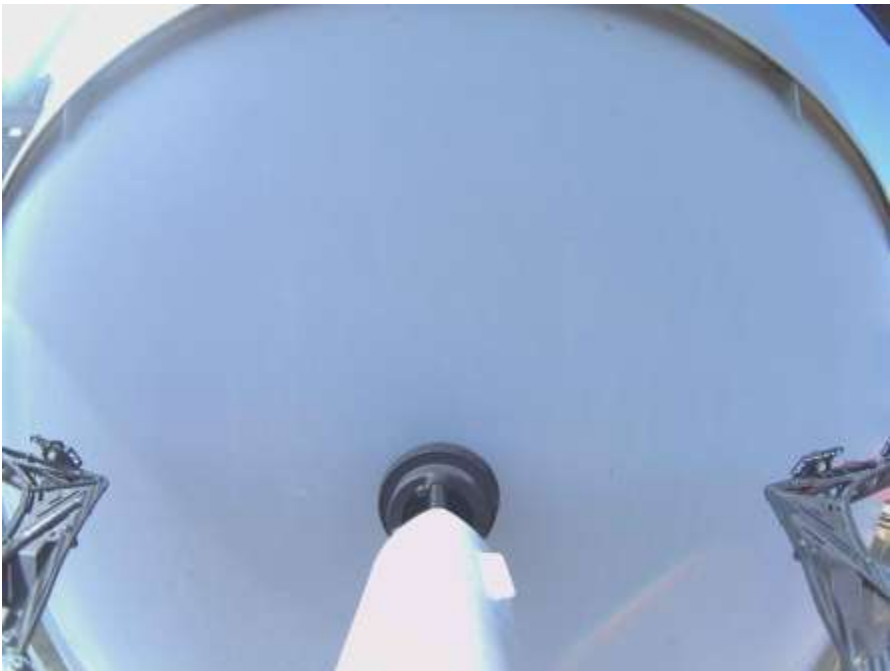


Figure 40: Location - Point 3



Figure 41: Location - Point 3

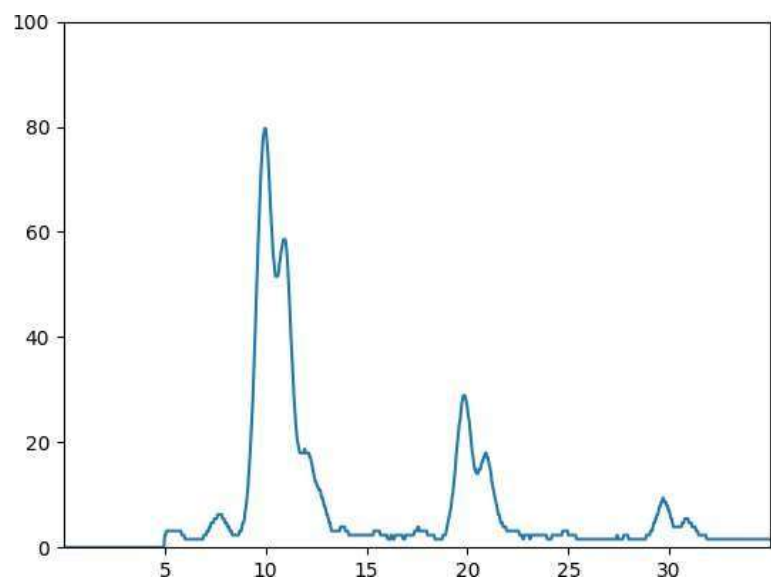


Figure 42: Location - Point 3

Point 4

GPS position (latitude, longitude): 25.29962115, 71.75199188

Table 18: Details results for Point 4 on Location

Thickness [mm]	8.620	XYZ Coordinates [m]	5.17	1.78	1.46
Rotation	Pitch: -0.4°	Timestamp [s]	15 May 2024, 09:59:00		

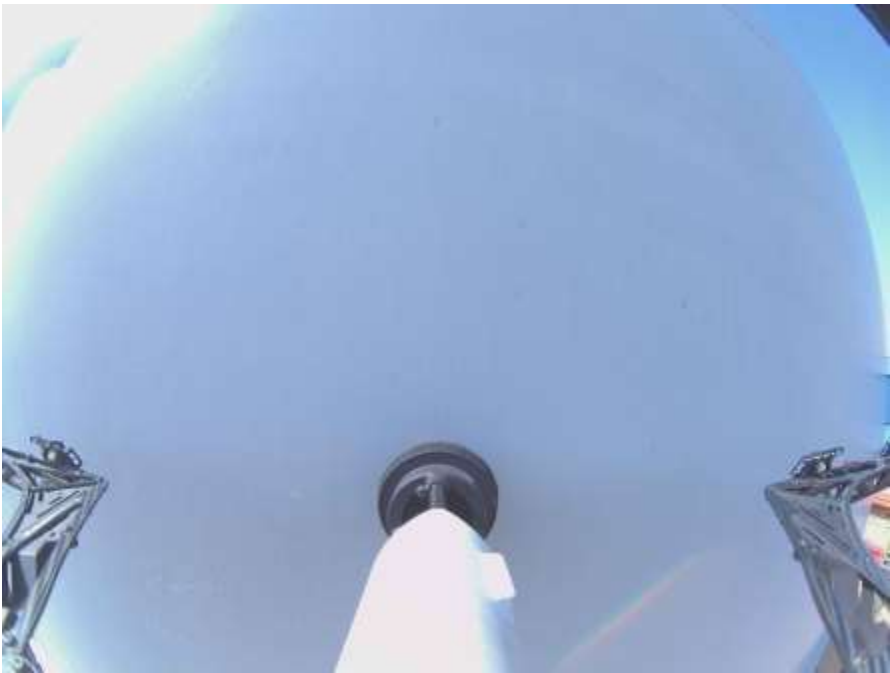


Figure 43: Location - Point 4



Figure 44: Location - Point 4

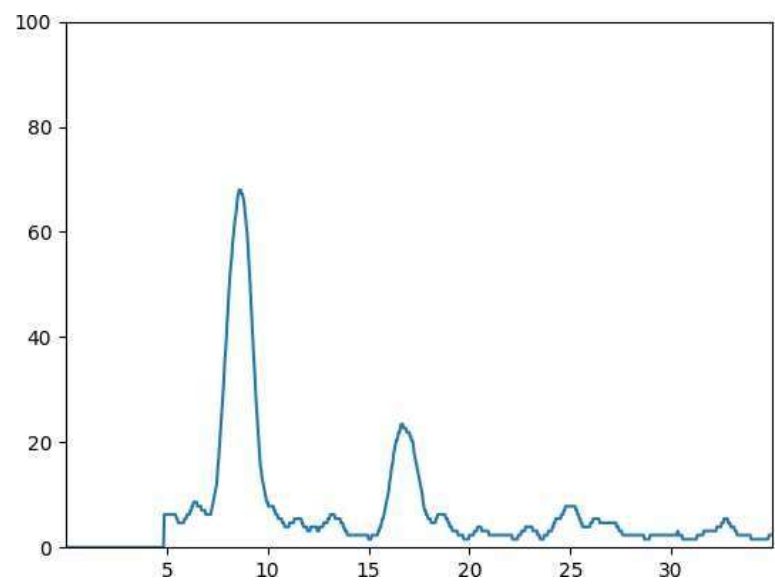


Figure 45: Location - Point 4

Point 5

GPS position (latitude, longitude): 25.29962160, 71.75199175

Table 19: Details results for Point 5 on Location

Thickness [mm]	7.940	XYZ Coordinates [m]	5.22	1.77	3.40
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 09:59:21		

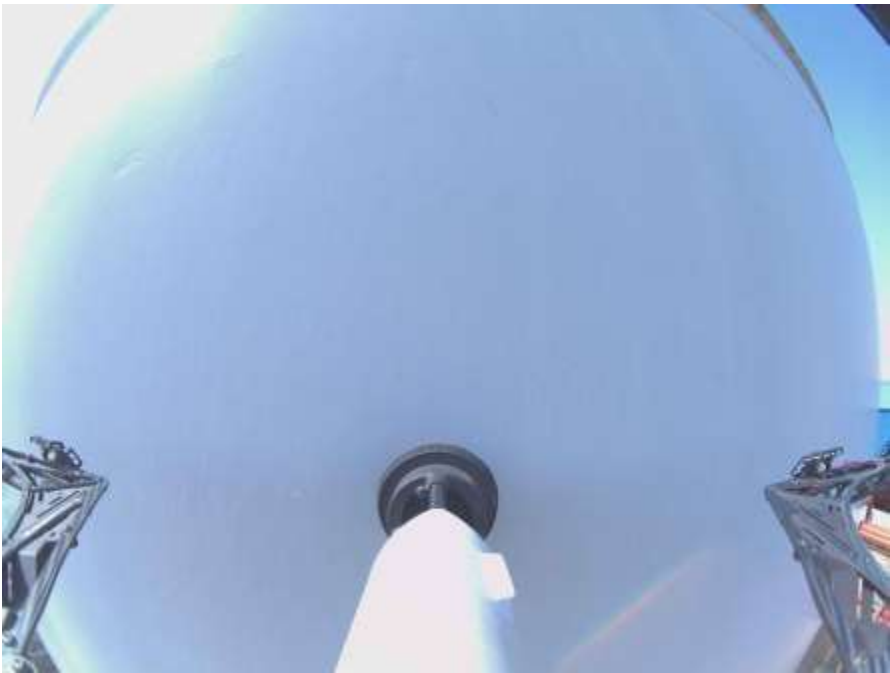


Figure 46: Location - Point 5



Figure 47: Location - Point 5

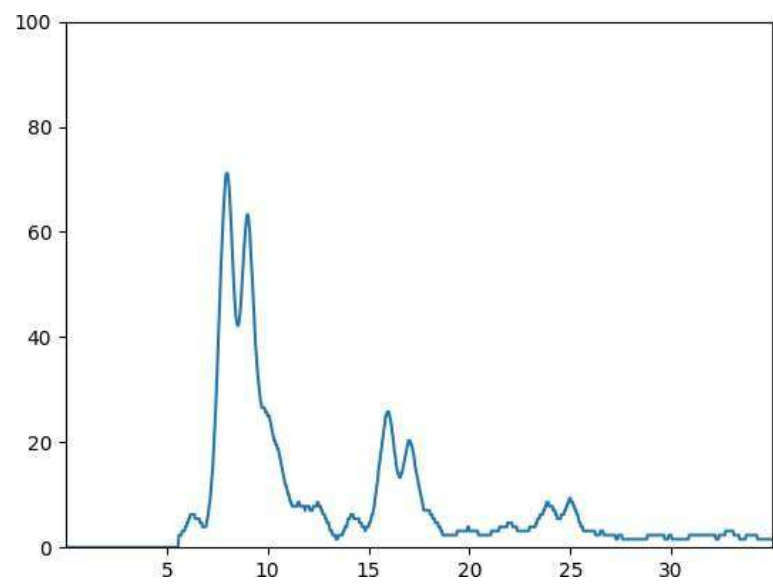


Figure 48: Location - Point 5



Point 6

GPS position (latitude, longitude): 25.29962262, 71.75199054

Table 20: Details results for Point 6 on Location

Thickness [mm]	7.900	XYZ Coordinates [m]	5.33	1.65	4.58
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 09:59:42		



Figure 49: Location - Point 6



Figure 50: Location - Point 6

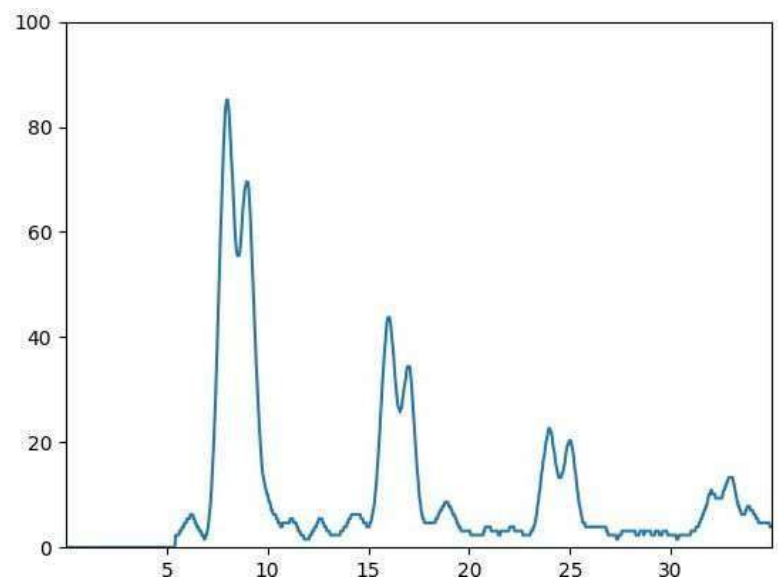


Figure 51: Location - Point 6

2.4 Inspection Location : Vedanta fire water tank D 851 A 135 °

2.4.1 Inspection Location

2.4.2 Results

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
7	15 May 2024, 10:00:23	8.180	R6	8	NA	No Reduction
8	15 May 2024, 10:00:40	8.420	R5	8	NA	No Reduction
9	15 May 2024, 10:00:59	8.540	R4	8	NA	No Reduction
10	15 May 2024, 10:01:19	9.910	R3	10	NA	No Reduction
11	15 May 2024, 10:01:41	10.320	R2	10	NA	No Reduction
12	15 May 2024, 10:02:04	10.880	R1	10	NA	No Reduction

Figure 53: Location - Point 7

Point 7

GPS position (latitude, longitude): 25.29964064, 71.75203037

Table 21: Details results for Point 7 on Location

Thickness [mm]	8.180	XYZ Coordinates [m]	7.34	5.65	3.71
Rotation	Pitch: -0.6°	Timestamp [s]	15 May 2024, 10:00:23		

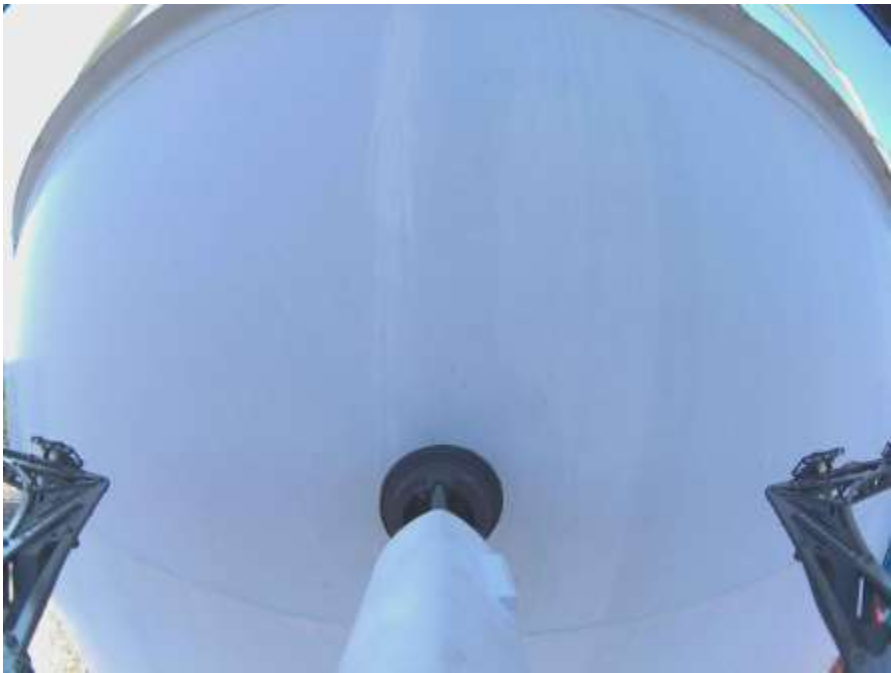


Figure 52: Location - Point 7

Figure 53: Location - Point 7



Figure 53: Location - Point 7

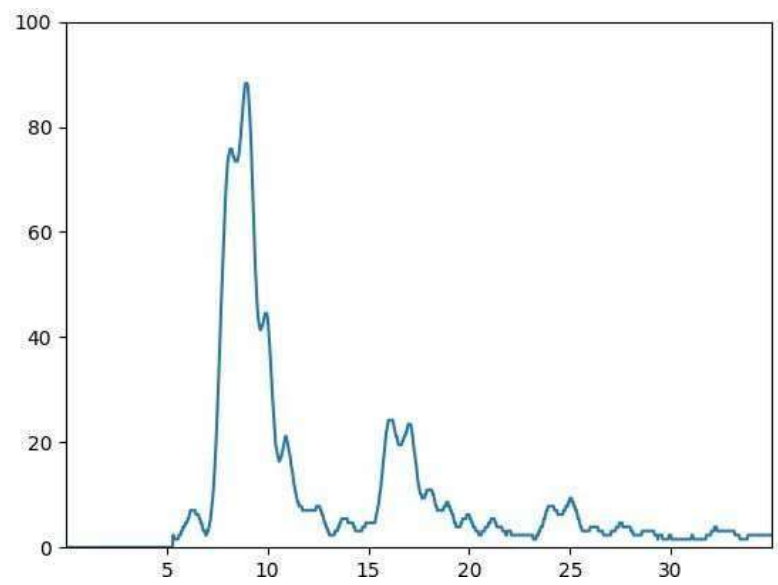


Figure 54: Location - Point 7

Point 8

GPS position (latitude, longitude): 25.29964072, 71.75203275

Table 22: Details results for Point 8 on Location

Thickness [mm]	8.420	XYZ Coordinates [m]	7.35	5.89	2.57
Rotation	Pitch: -0.9°	Timestamp [s]	15 May 2024, 10:00:40		



Figure 55: Location - Point 8



Figure 56: Location - Point 8

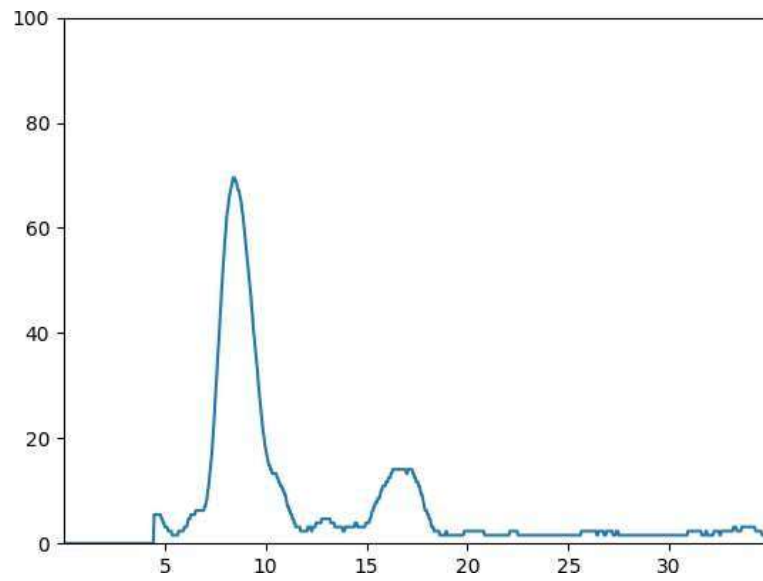


Figure 57: Location - Point 8



Point 9

GPS position (latitude, longitude): 25.29963931, 71.75203646

Table 23: Details results for Point 9 on Location

Thickness [mm]	8.540	XYZ Coordinates [m]	7.19	6.27	0.71
Rotation	Pitch: -0.6°	Timestamp [s]	15 May 2024, 10:00:59		

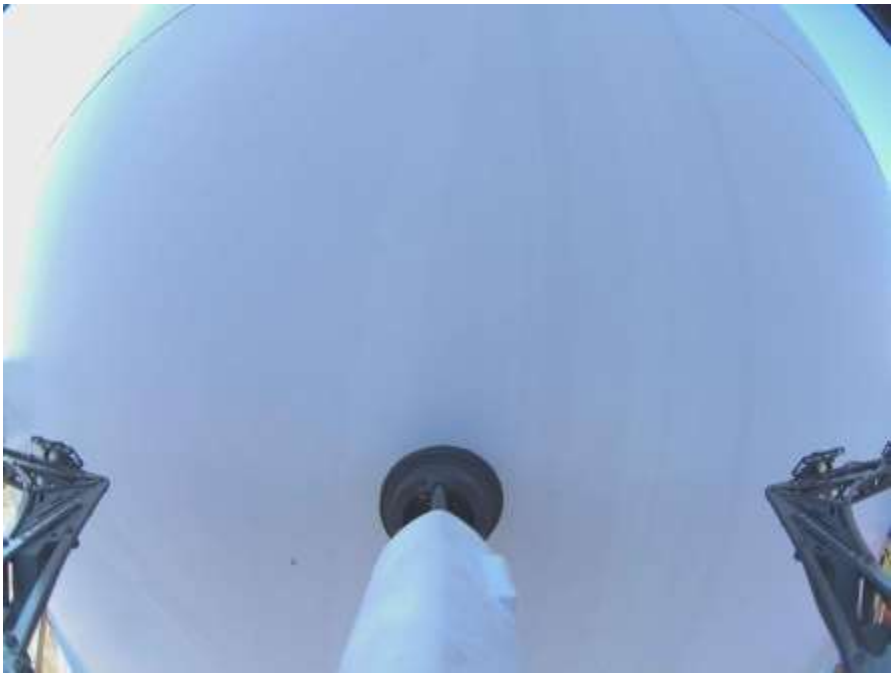


Figure 58: Location - Point 9



Figure 59: Location - Point 9

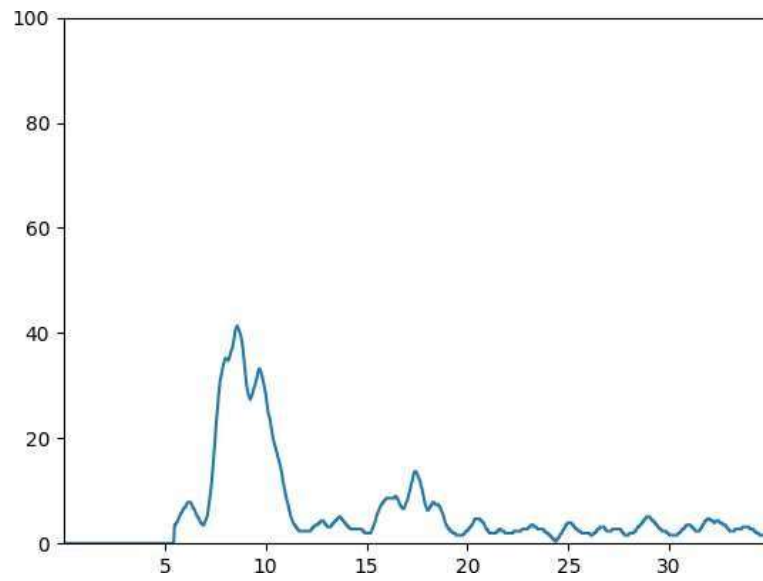


Figure 60: Location - Point 9

Point 10

GPS position (latitude, longitude): 25.29963931, 71.75203921

Table 24: Details results for Point 10 on Location

Thickness [mm]	9.910	XYZ Coordinates [m]	7.19	6.54	1.87
Rotation	Pitch: -0.7°	Timestamp [s]	15 May 2024, 10:01:19		



Figure 61: Location - Point 10

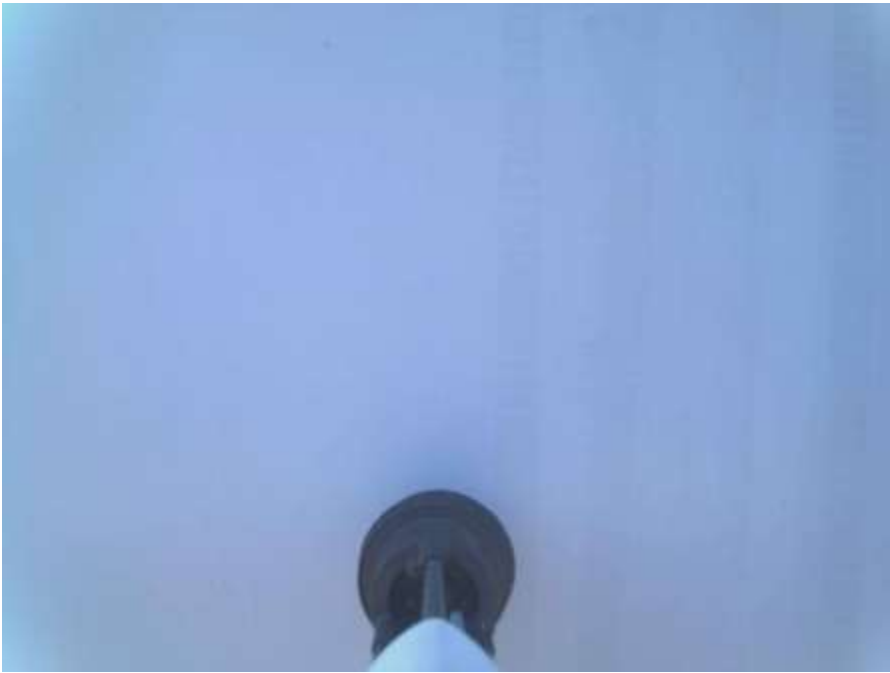


Figure 62: Location - Point 10

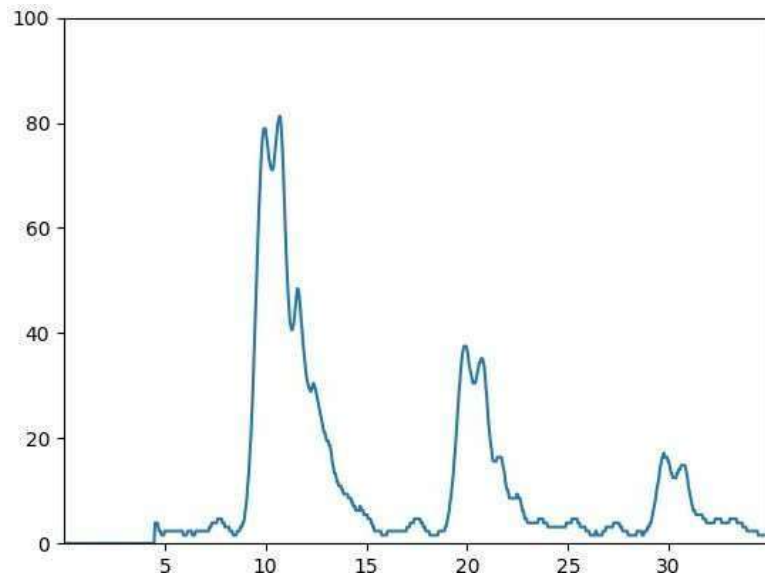


Figure 63: Location - Point 10

Point 11

GPS position (latitude, longitude): 25.29963800, 71.75204236

Table 25: Details results for Point 11 on Location

Thickness [mm]	10.320	XYZ Coordinates [m]	7.05	6.86	8.80
Rotation	Pitch: -0.4°	Timestamp [s]	15 May 2024, 10:01:41		

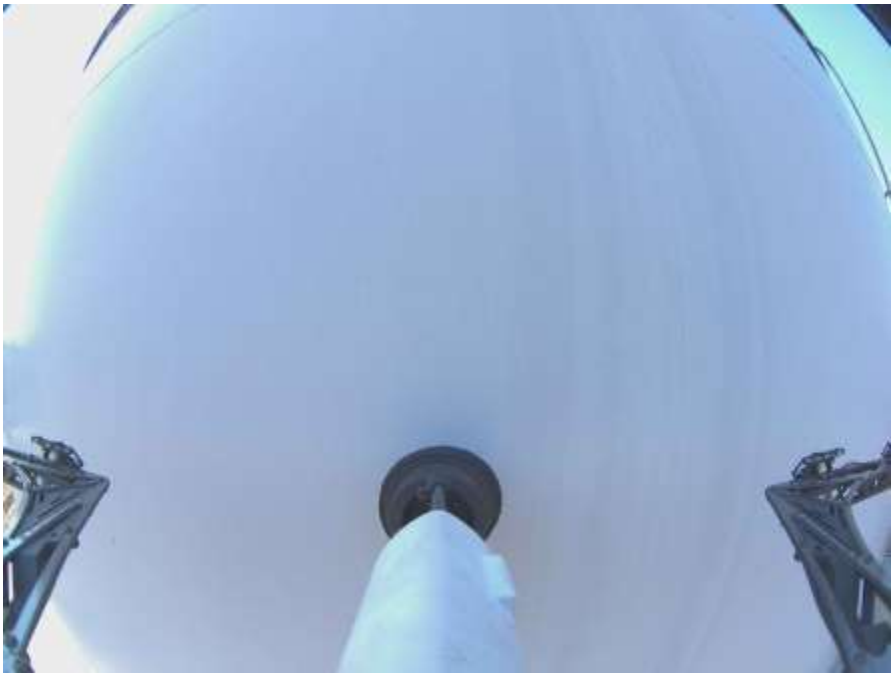


Figure 64: Location - Point 11



Figure 65: Location - Point 11

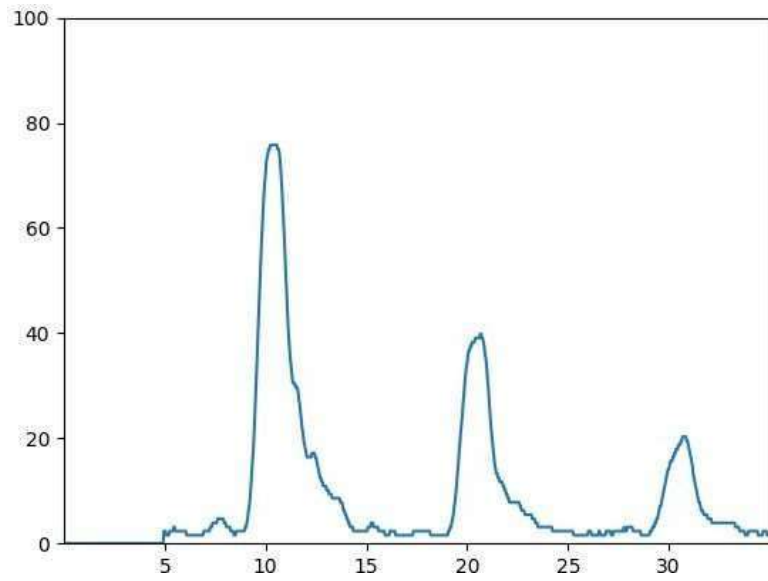


Figure 66: Location - Point 11

Point 12

GPS position (latitude, longitude): 25.29963092, 71.75204095

Table 26: Details results for Point 12 on Location

Thickness [mm]	10.880	XYZ Coordinates [m]	6.26	6.72	10.95
Rotation	Pitch: -0.4°	Timestamp [s]	15 May 2024, 10:02:04		



Figure 67: Location - Point 12

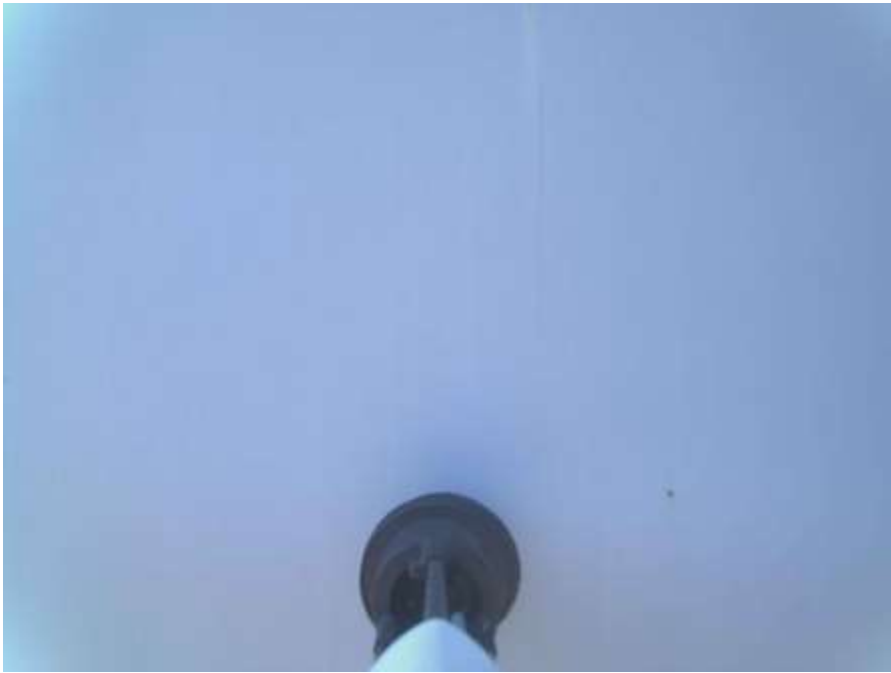


Figure 68: Location - Point 12

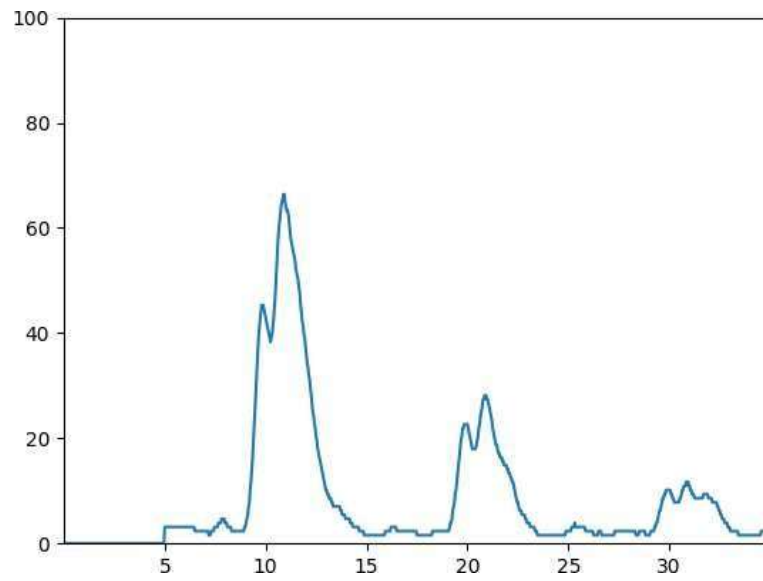


Figure 69: Location - Point 12



2.5 Inspection Location : Vedanta fire water tank D 851 A 90°

2.5.1 Inspection Location

2.5.2 Results

Table 27: Location Major Findings

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
1	15 May 2024, 10:20:27	10.680	R1	10	NA	No Reduction
2	15 May 2024, 10:20:52	10.030	R2	10	NA	No Reduction
3	15 May 2024, 10:21:22	8.220	R4	8	NA	No Reduction
4	15 May 2024, 10:21:42	8.500	R5	8	NA	No Reduction
5	15 May 2024, 10:22:06	8.140	R6	8	NA	No Reduction

Point 1

GPS position (latitude, longitude): 25.29968329, 71.75213305

Table 28: Details results for Point 1 on Location

Thickness [mm]	10.680	XYZ Coordinates [m]	2.61	2.03	3.39
Rotation	Pitch: 0.2°	Timestamp [s]	15 May 2024, 10:20:27		



Figure 70: Location - Point 1



Figure 71: Location - Point 1

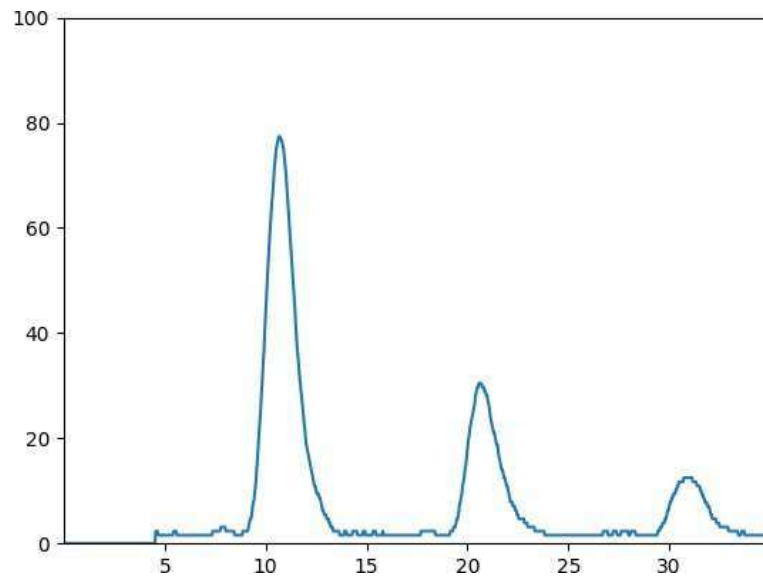


Figure 72: Location - Point 1

Point 2

GPS position (latitude, longitude): 25.29968252, 71.75213289

Table 29: Details results for Point 2 on Location

Thickness [mm]	10.030	XYZ Coordinates [m]	2.52	2.04	2.42
Rotation	Pitch: -0.3°	Timestamp [s]	15 May 2024, 10:20:52		



Figure 73: Location - Point 2

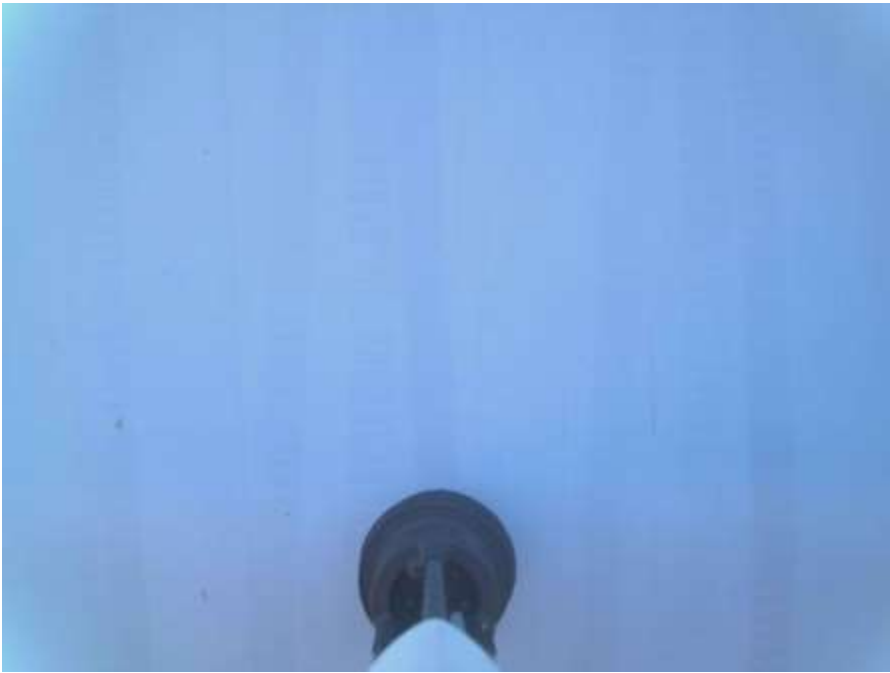


Figure 74: Location - Point 2

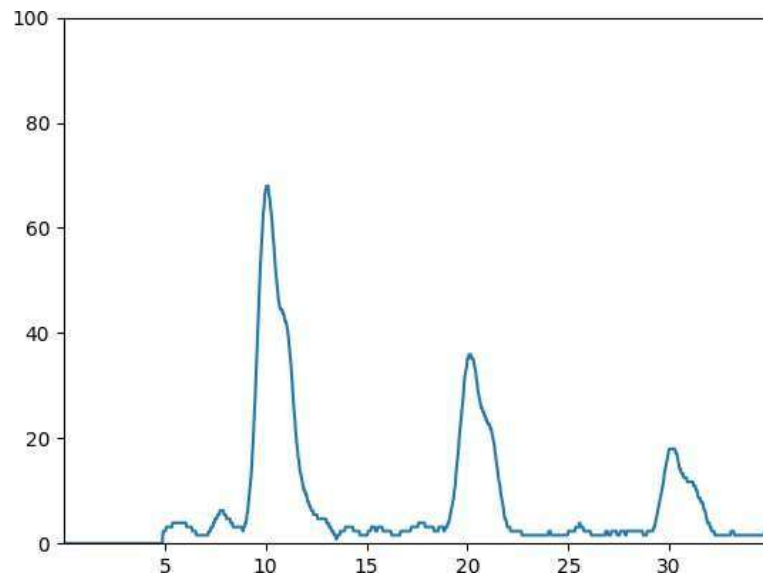


Figure 75: Location - Point 2

Point 3

GPS position (latitude, longitude): 25.29968840, 71.75213217

Table 30: Details results for Point 3 on Location

Thickness [mm]	8.220	XYZ Coordinates [m]	3.18	2.11	4.10
Rotation	Pitch: -0.6°	Timestamp [s]	15 May 2024, 10:21:22		

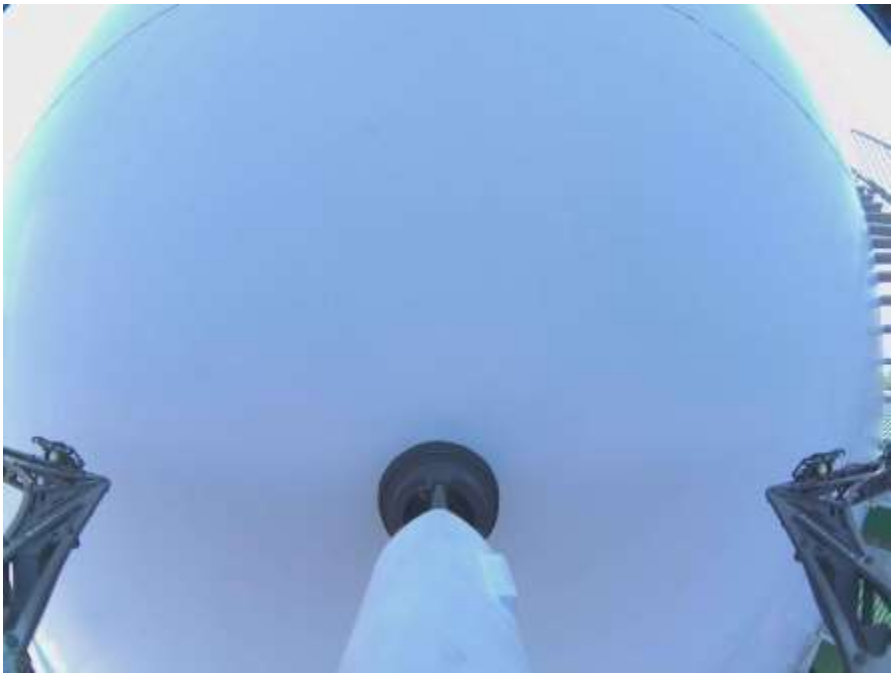


Figure 76: Location - Point 3

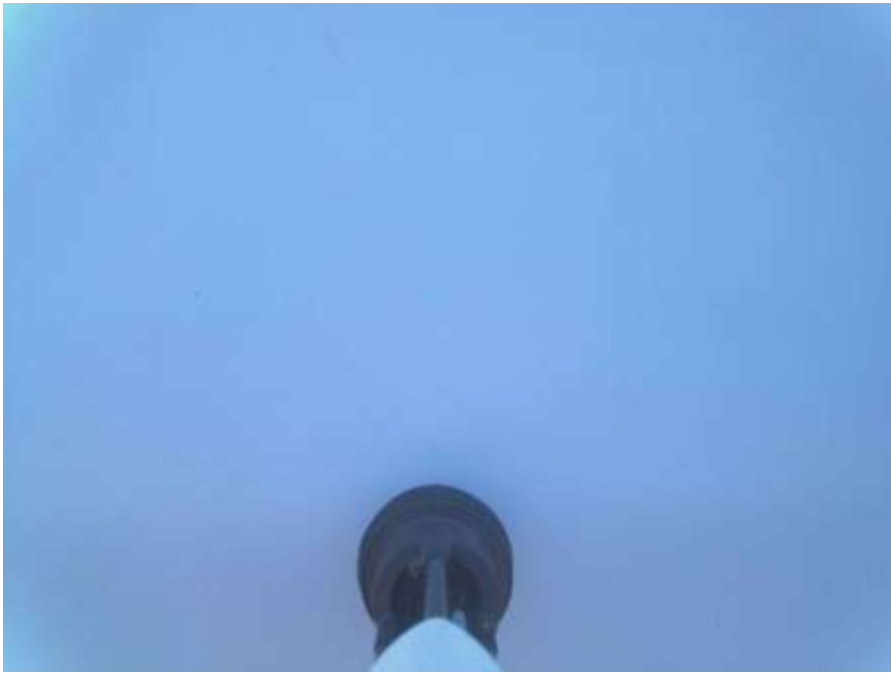


Figure 77: Location - Point 3

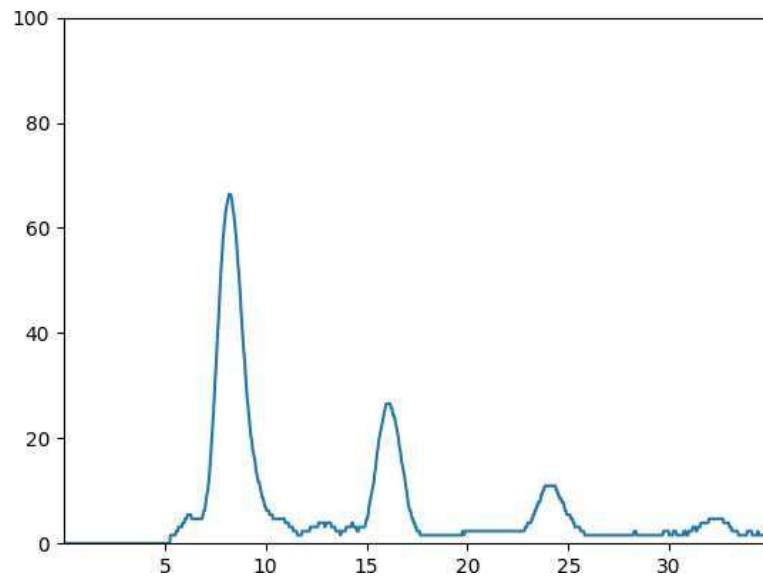


Figure 78: Location - Point 3

Point 4

GPS position (latitude, longitude): 25.29968411, 71.75212615

Table 31: Details results for Point 4 on Location

Thickness [mm]	8.500	XYZ Coordinates [m]	2.70	2.72	2.79
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 10:21:42		



Figure 79: Location - Point 4

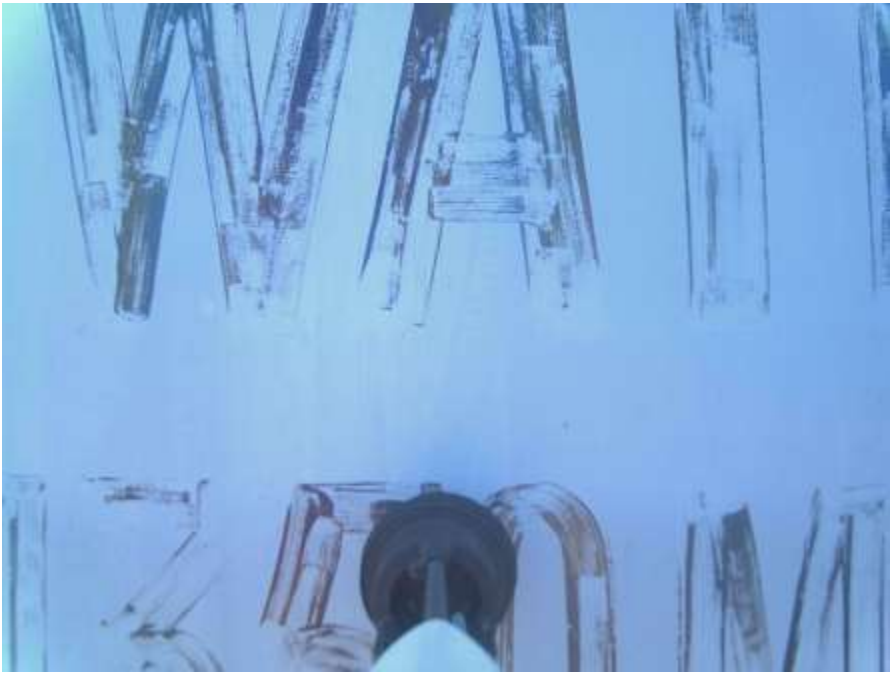


Figure 80: Location - Point 4



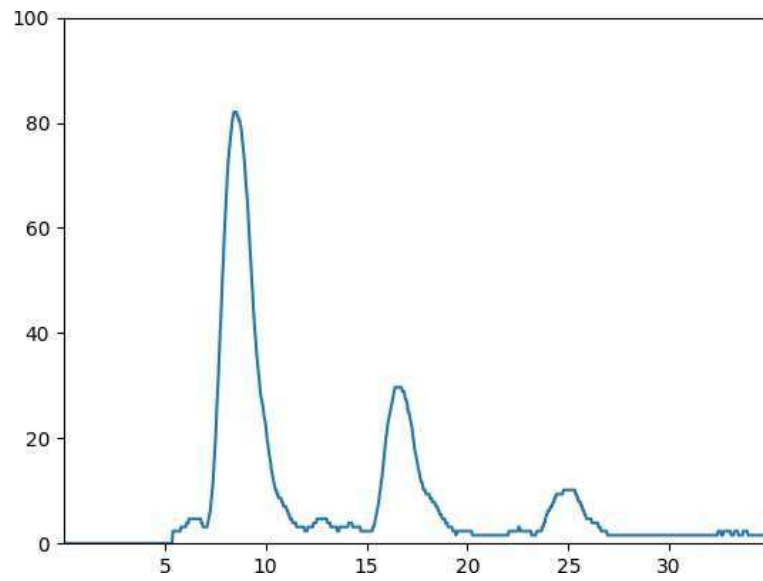


Figure 81: Location - Point 4

Point 5

GPS position (latitude, longitude): 25.29968484, 71.75212083

Table 32: Details results for Point 5 on Location

Thickness [mm]	8.140	XYZ Coordinates [m]	2.78	3.25	2.42
Rotation	Pitch: -0.4°	Timestamp [s]	15 May 2024, 10:22:06		



Figure 82: Location - Point 5

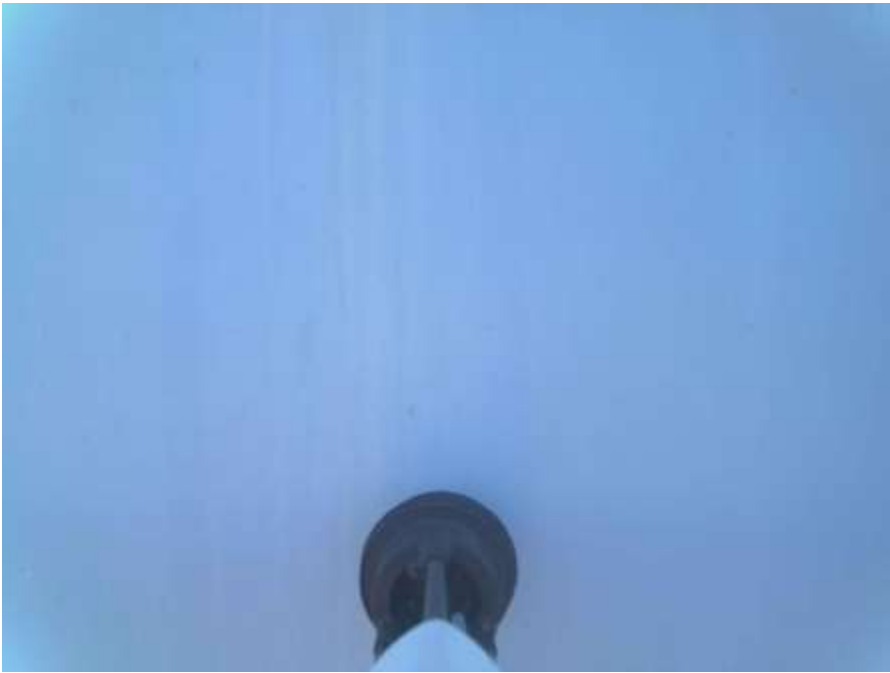


Figure 83: Location - Point 5

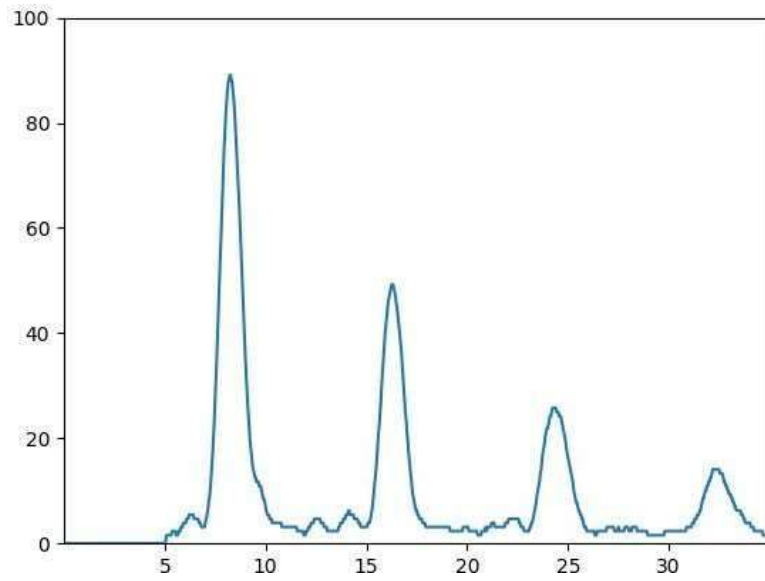


Figure 84: Location - Point 5

2.6 Inspection Location : Vedanta fire water tank D 851 A 45 °

2.6.1 Inspection Location

2.6.1 Results

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
6	15 May 2024, 10:22:39	8.300	R6	8	NA	No Reduction
7	15 May 2024, 10:23:22	7.860	R4	8	0.2	Reduction
8	15 May 2024, 10:23:45	10.760	R3	10	NA	No Reduction
9	15 May 2024, 10:24:07	10.030	R2	10	NA	No Reduction
10	15 May 2024, 10:24:29	10.480	R1	10	NA	No Reduction

Point 6

GPS position (latitude, longitude): 25.29970808, 71.75210799

Table 33: Details results for Point 6 on Location

Thickness [mm]	8.300	XYZ Coordinates [m]	5.37	4.55	3.86
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 10:22:39		



Figure 85: Location - Point 6



Figure 86: Location - Point 6

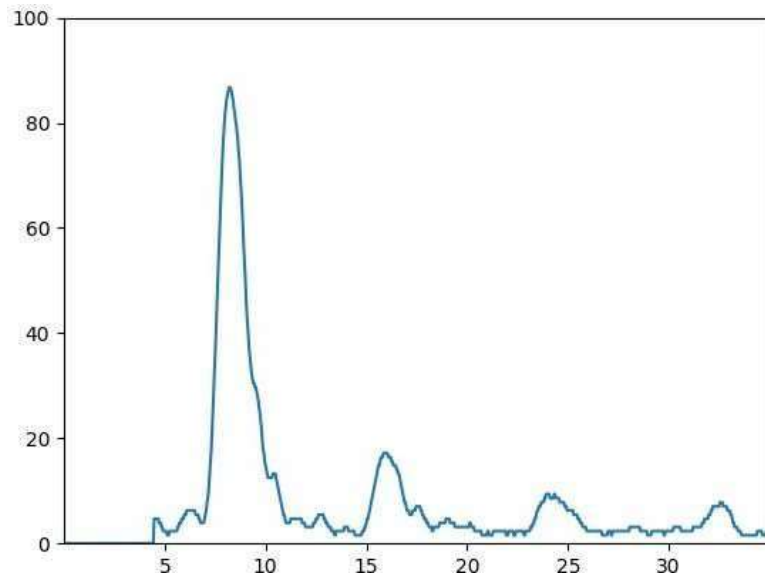


Figure 87: Location - Point 6

Point 7

GPS position (latitude, longitude): 25.29973064, 71.75208354

Table 34: Details results for Point 7 on Location

Thickness [mm]	7.860	XYZ Coordinates [m]	7.87	7.00	9.06
Rotation	Pitch: -0.1°	Timestamp [s]	15 May 2024, 10:23:22		



Figure 88: Location - Point 7



Figure 89: Location - Point 7

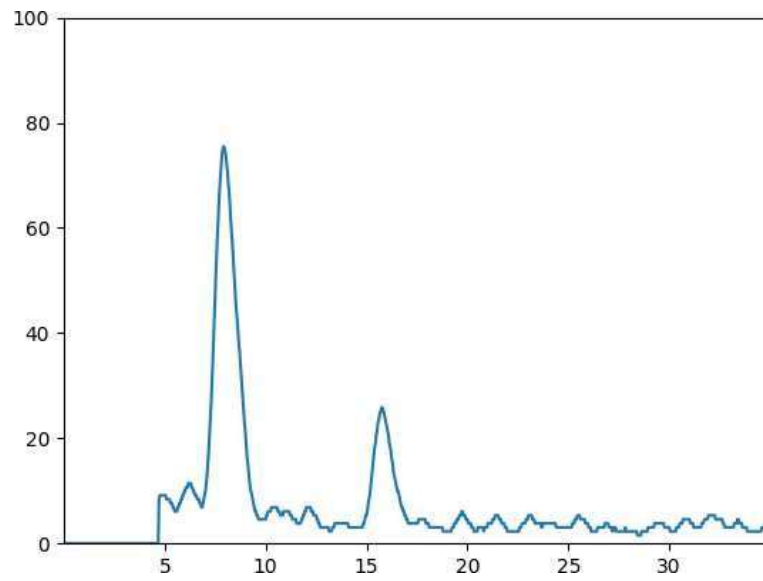


Figure 90: Location - Point 7



Point 8

GPS position (latitude, longitude): 25.29973796, 71.75208053

Table 35: Details results for Point 8 on Location

Thickness [mm]	10.760	XYZ Coordinates [m]	8.69	7.30	11.56
Rotation	Pitch: -0.9°	Timestamp [s]	15 May 2024, 10:23:45		



Figure 91: Location - Point 8



Figure 92: Location - Point 8

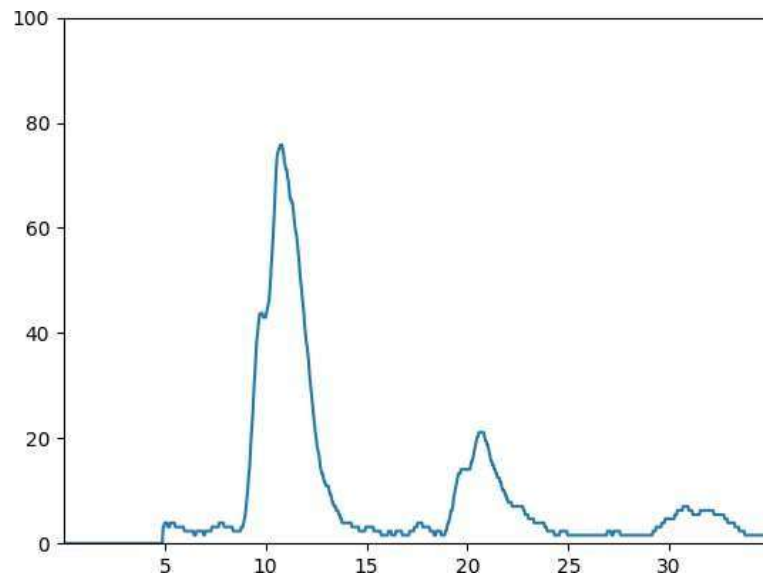


Figure 93: Location - Point 8

Point 9

GPS position (latitude, longitude): 25.29974474, 71.75207894

Table 36: Details results for Point 9 on Location

Thickness [mm]	10.030	XYZ Coordinates [m]	9.44	7.47	13.39
Rotation	Pitch: -0.2°	Timestamp [s]	15 May 2024, 10:24:07		



Figure 94: Location - Point 9



Figure 95: Location - Point 9

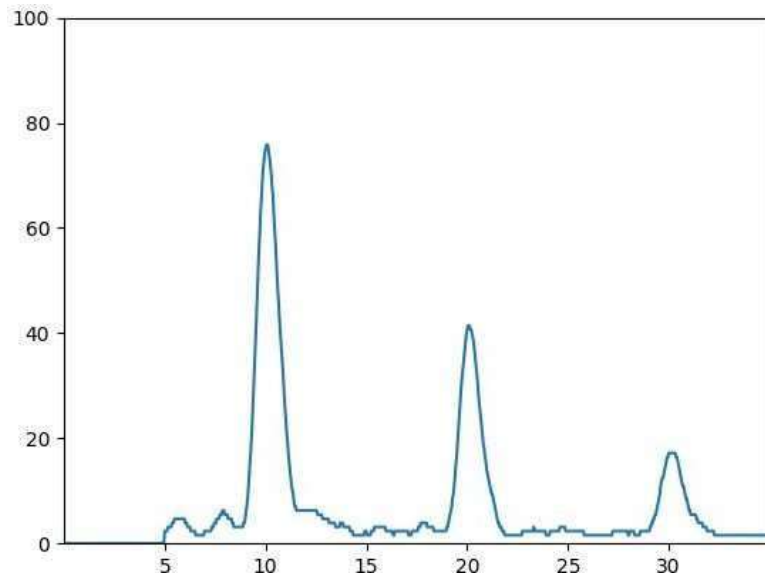


Figure 96: Location - Point 9

Point 10

GPS position (latitude, longitude): 25.29975046, 71.75207867

Table 37: Details results for Point 10 on Location

Thickness [mm]	10.480	XYZ Coordinates [m]	10.08	7.49	14.56
Rotation	Pitch: -0.5°	Timestamp [s]	15 May 2024, 10:24:29		

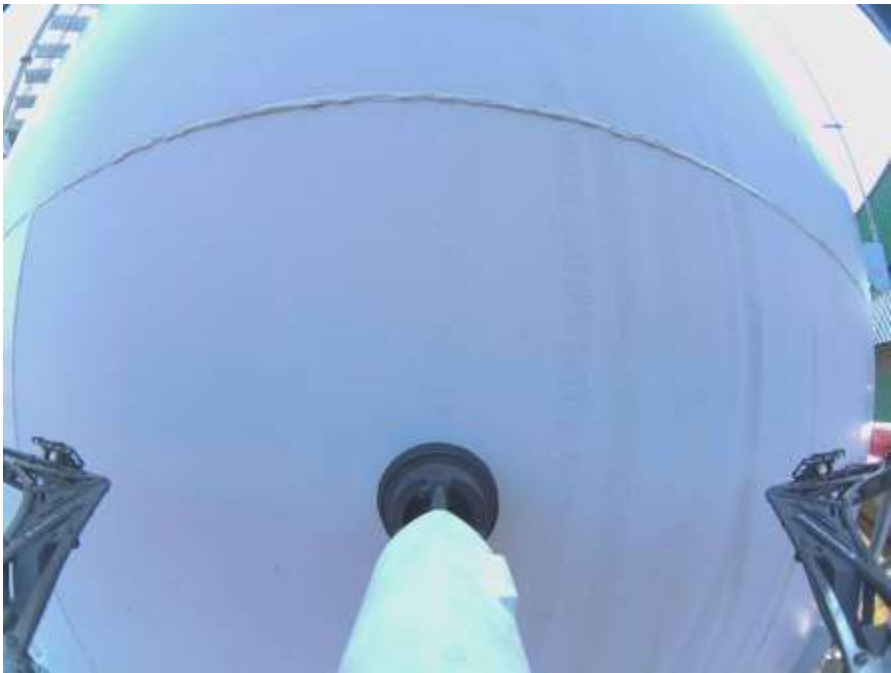


Figure 97: Location - Point 10



Figure 98: Location - Point 10

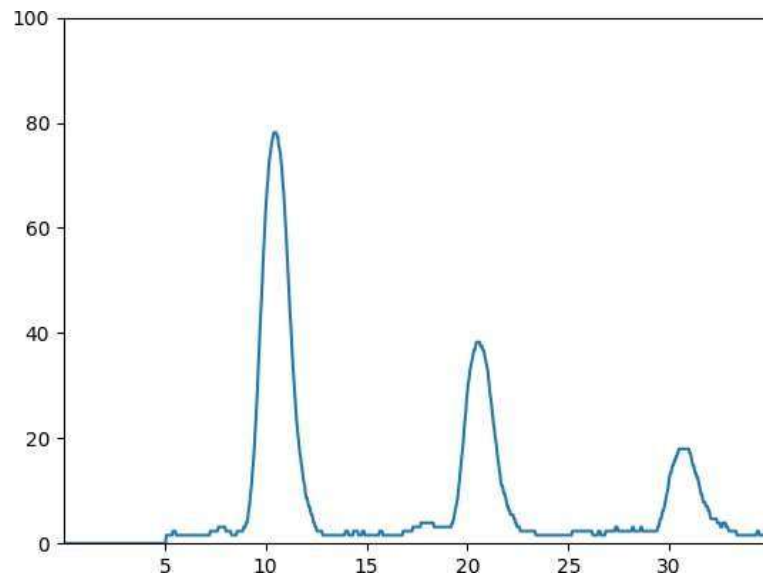


Figure 99: Location - Point 10

2.7 Inspection Location : Vedanta fire water tank D 851 A -0

2.7.1 Inspection Location

2.7.2 Results

Table 38: Location Major Findings

Point	Timestamp [s]	Measured [mm]	Ring No	Reference [mm]	Difference [mm]	Comment
1	15 May 2024, 10:38:08	7.860	R6	8	0.14	No Reduction
2	15 May 2024, 10:38:36	7.900	R5	8	0.1	No Reduction
3	15 May 2024, 10:38:55	8.140	R4	8	NA	No Reduction
4	15 May 2024, 10:39:22	10.720	R3	10	NA	No Reduction
5	15 May 2024, 10:39:48	10.560	R2	10	NA	No Reduction

Point 1

GPS position (latitude, longitude): 25.29976435, 71.75201834

Table 39: Details results for Point 1 on Location

Thickness [mm]	7.860	XYZ Coordinates [m]	9.78	9.10	4.13
Rotation	Pitch: -0.3°	Timestamp [s]	15 May 2024, 10:38:08		



Figure 100: Location - Point 1



Figure 101: Location - Point 1



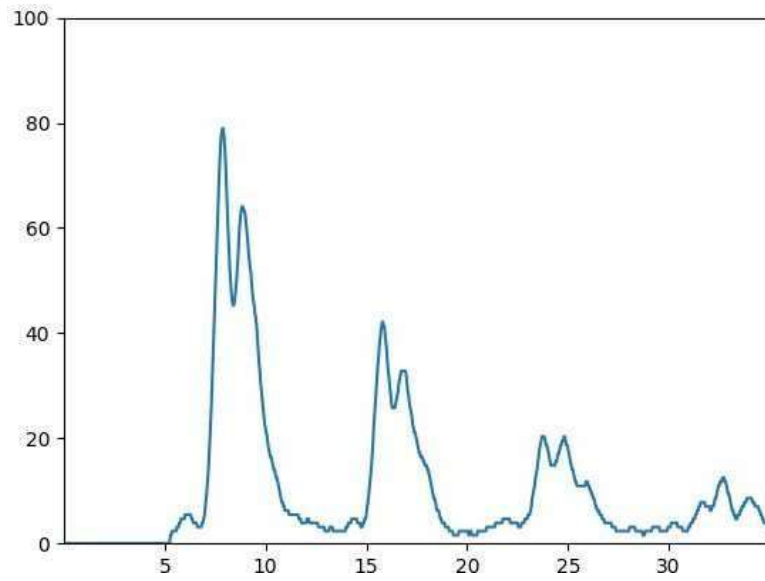


Figure 102: Location - Point 1

Point 2

GPS position (latitude, longitude): 25.29976914, 71.75201365

Table 40: Details results for Point 2 on Location

Thickness [mm]	7.900	XYZ Coordinates [m]	10.31	9.57	2.00
Rotation	Pitch: -0.1°	Timestamp [s]	15 May 2024, 10:38:36		



Figure 103: Location - Point 2



Figure 104: Location - Point 2

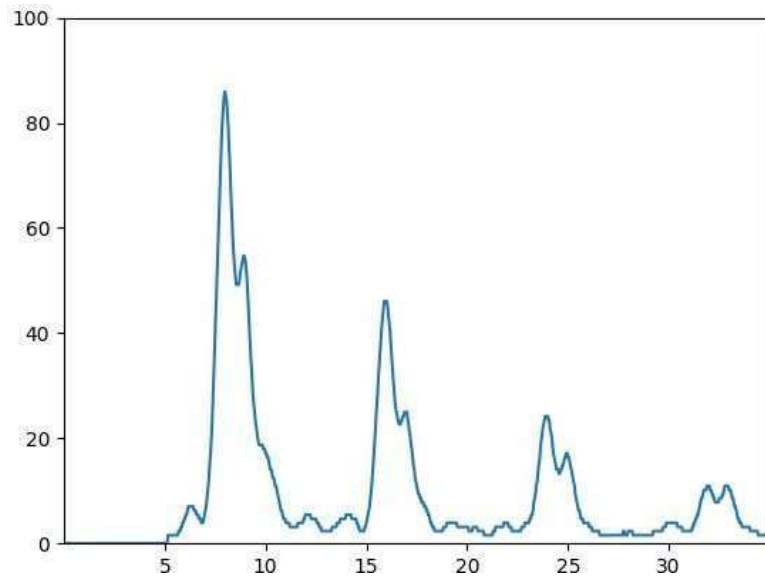


Figure 105: Location - Point 2

Point 3

GPS position (latitude, longitude): 25.29977298, 71.75201030

Table 41: Details results for Point 3 on Location

Thickness [mm]	8.140	XYZ Coordinates [m]	10.73	9.91	0.34
Rotation	Pitch: -0.4°	Timestamp [s]	15 May 2024, 10:38:55		



Figure 106: Location - Point 3



Figure 107: Location - Point 3

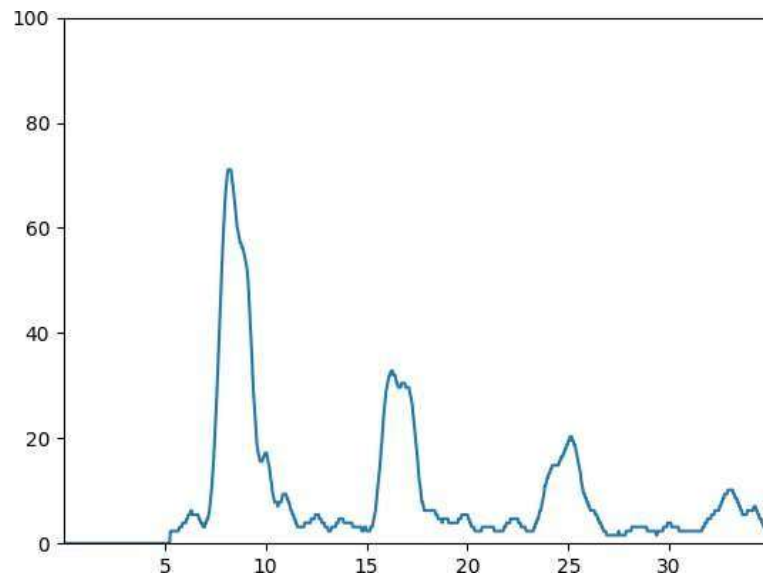


Figure 108: Location - Point 3

Point 4

GPS position (latitude, longitude): 25.29977930, 71.75200353

Table 42: Details results for Point 4 on Location

Thickness [mm]	10.720	XYZ Coordinates [m]	11.44	10.59	3.23
Rotation	Pitch: 0.1°	Timestamp [s]	15 May 2024, 10:39:22		



Figure 109: Location - Point 4



Figure 110: Location - Point 4

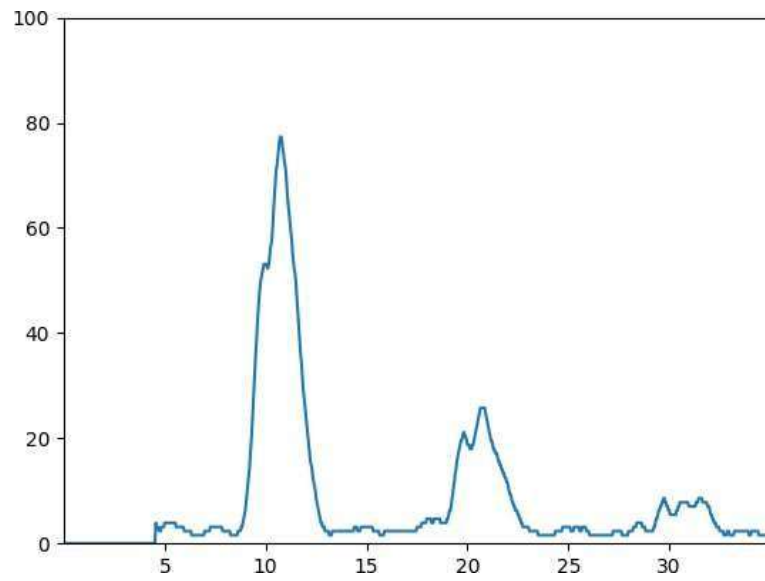


Figure 111: Location - Point 4

Point 5

GPS position (latitude, longitude): 25.29978408, 71.75200142

Table 43: Details results for Point 5 on Location

Thickness [mm]	10.560	XYZ Coordinates [m]	11.97	10.80	4.73
Rotation	Pitch: 0.2°	Timestamp [s]	15 May 2024, 10:39:48		



Figure 112: Location - Point 5



Figure 113: Location - Point 5



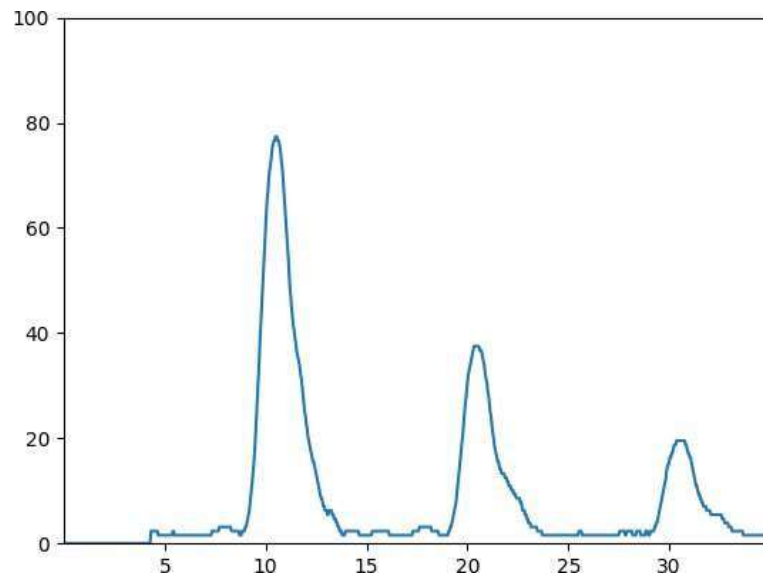


Figure 114: Location - Point 5