

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 7**

Trial Number:		7		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	96.6	17	1302.4	999.4	518206
2	1	60.4	17			16439
3	3	84.2	17	1834.8	1597.8	176758
4	2	76.3	17	1217.7		338480
5	3	88.6	17	1289.4	1771.4	497794
6	1	59.9	17			661425
7	3	84.9	17	1261.1	1365.1	157222
8	1	54.5	17			319091
9	1	50.8	17			480828
10	1	55.1	17			641719
11	3	95.1	17	1675.9	1013.9	137485
12	2	83.2	17	1701.8		298500
13	1	54.5	17			460570
14	1	51.5	17			621845
15	2	73.6	17	1091.4		117946
16	1	65.9	17			279611
17	3	94.1	17	1105.9	1735.9	438645
18	3	96.5	17	903.5	1084.5	599717

**Radar Type 5\_Trial 8**

<b>Trial Number:</b>		<b>8</b>		<b>VSG Frequency(MHz):</b>		<b>5310</b>	
<b>Number of Bursts in Trial:</b>			<b>20</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	63.3	19			88435	
2	1	60	19			233755	
3	2	72.4	19	996.6		377962	
4	1	66.2	19			524214	
5	2	82	19	933		70391	
6	2	76.9	19	1208.1		215368	
7	3	87.4	19	1497.6	1002.6	359056	
8	3	84.1	19	1510.9	1010.9	503764	
9	3	90.5	19	1691.5	1759.5	52367	
10	1	60.4	19			197691	
11	2	71.9	19	1077.1		342454	
12	3	89.9	19	1776.1	1160.1	485224	
13	2	74.1	19	1044.9		34745	
14	2	70.7	19	932.3		179725	
15	2	76.6	19	1715.4		324324	
16	3	83.6	19	1448.4	917.4	468103	
17	2	81.1	19	1598.9		16866	
18	2	77.1	19	1244.9		161750	
19	1	54	19			307173	
20	1	66.5	19			452528	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 9**

Trial Number:		9		VSG Frequency(MHz):		5310
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	97.5	19	918.5	1278.5	627010
2	2	81.4	19	1232.6		151499
3	3	93.2	19	1061.8	1784.8	303073
4	1	60.3	19			457641
5	1	54.3	19			609973
6	2	82.1	19	1142.9		132665
7	3	94.5	19	1324.5	1462.5	284456
8	1	56.8	19			438708
9	2	82.4	19	1103.6		590746
10	1	64.5	19			114107
11	2	73.8	19	1744.2		266070
12	1	55.5	19			419524
13	3	91.2	19	1458.8	988.8	570171
14	2	78.7	19	1877.3		94960
15	1	58.7	19			247970
16	2	72.9	19	1124.1		400470
17	2	75.3	19	935.7		553009
18	2	80.3	19	1882.7		76261
19	2	78.5	19	1258.5		228792

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 10**

Trial Number:		10		VSG Frequency(MHz):		5310
Number of Bursts in Trial:		10		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57.2	7			727000
2	3	88.9	7	1619.1	1067.1	1014862
3	1	54.5	7			109740
4	2	69.4	7	1546.6		399887
5	2	74.5	7	1172.5		690242
6	2	82.6	7	1539.4		980619
7	1	60.9	7			73901
8	2	81	7	1840		363866
9	2	74.4	7	1378.6		654563
10	1	56.5	7			946035

**Radar Type 5\_Trial 11**

Trial Number:		11		VSG Frequency(MHz):		5314.4
Number of Bursts in Trial:		13		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	70.9	11	1044.1		29261
2	2	70.5	11	1769.5		252311
3	3	96.5	11	1384.5	1247.5	474890
4	1	61.9	11			700112
5	2	77.5	11	1837.5		1761
6	3	99.1	11	1138.9	1158.9	224578
7	2	81.9	11	1813.1		448072
8	2	66.9	11	964.1		671896
9	1	62	11			895362
10	1	61.8	11			197821
11	3	100	11	1303	1697	419849
12	2	82.4	11	1740.6		643536
13	2	80.6	11	1276.4		867122

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 12**

<b>Trial Number:</b>		<b>12</b>		<b>VSG Frequency(MHz):</b>		<b>5313.6</b>	
<b>Number of Bursts in Trial:</b>			<b>11</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	51.6	9			201180	
2	2	76	9	1002		464941	
3	3	86.7	9	1699.3	1592.3	727080	
4	1	66.3	9			994255	
5	3	98.8	9	1196.2	1814.2	168219	
6	3	95.5	9	1724.5	1512.5	431449	
7	1	61.9	9			697377	
8	1	53.7	9			961212	
9	1	58.2	9			136083	
10	1	50.7	9			400380	
11	3	98.7	9	1636.3	1586.3	662730	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 13**

<b>Trial Number:</b>		<b>13</b>		<b>VSG Frequency(MHz):</b>		<b>5315.6</b>
<b>Number of Bursts in Trial:</b>			<b>16</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	3	96.8	14	910.2	965.2	636157
2	2	77.7	14	1813.3		70943
3	3	92.9	14	1514.1	1790.1	251524
4	1	61.9	14			434008
5	2	68.6	14	1397.4		614910
6	2	77.7	14	1548.3		48726
7	3	93.5	14	1117.5	1233.5	229702
8	1	51	14			411980
9	2	70.1	14	1071.9		592107
10	1	50.2	14			26434
11	1	61.5	14			207894
12	3	94	14	1397	1332	387915
13	2	77.3	14	1159.7		570305
14	3	93.7	14	1350.3	1896.3	4064
15	1	63.7	14			185575
16	2	79.7	14	1764.3		366216

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 14**

<b>Trial Number:</b>		<b>14</b>		<b>VSG Frequency(MHz):</b>		<b>5317.2</b>	
<b>Number of Bursts in Trial:</b>			<b>18</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	76.8	18	1816.2		486496	
2	1	56	18			649127	
3	1	63.3	18			145037	
4	2	68.5	18	1680.5		305438	
5	2	78.5	18	1824.5		466217	
6	2	74.9	18	1822.1		627521	
7	1	58.3	18			125290	
8	1	52.8	18			286330	
9	3	93.5	18	1653.5	1489.5	445360	
10	3	87.9	18	1295.1	1248.1	606743	
11	1	66.3	18			105370	
12	1	62.2	18			266703	
13	3	85.6	18	1885.4	1377.4	425493	
14	1	62.4	18			589415	
15	1	52.8	18			85503	
16	1	62.7	18			246607	
17	2	69.7	18	1876.3		406665	
18	3	97.9	18	954.1	1546.1	566929	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 15**

<b>Trial Number:</b>		<b>15</b>		<b>VSG Frequency(MHz):</b>		<b>5315.2</b>	
<b>Number of Bursts in Trial:</b>			<b>15</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	65.1	13			78786	
2	3	99.8	13	948.2	1779.2	271291	
3	1	56.1	13			466238	
4	2	70	13	1295		658425	
5	3	98.3	13	1720.7	972.7	54697	
6	3	84.4	13	1367.6	1238.6	247761	
7	2	68.4	13	1740.6		441115	
8	3	99	13	1639	1211	633835	
9	1	62.2	13			31029	
10	2	80.3	13	970.7		224448	
11	3	90.2	13	1382.8	1677.8	416419	
12	2	82	13	1490		610871	
13	1	59.3	13			7180	
14	2	72.6	13	1167.4		200518	
15	3	85.1	13	1007.9	1162.9	393401	



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 16**

Trial Number:		16		VSG Frequency(MHz):		5316
Number of Bursts in Trial:		16		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	65.8	15			551501
2	3	85.2	15	1543.8	1265.8	729923
3	3	97.7	15	1813.3	1408.3	165204
4	3	95	15	932	1770	346186
5	2	82.2	15	1407.8		527759
6	2	70.1	15	1101.9		709276
7	2	71.8	15	1694.2		143143
8	2	69.4	15	1890.6		324158
9	3	90	15	1562	1234	504798
10	2	68.5	15	1811.5		686164
11	2	80.8	15	1500.2		120866
12	1	61.3	15			302644
13	2	81.2	15	1400.8		483304
14	1	65.5	15			666028
15	1	57.7	15			98815
16	3	97.4	15	1367.6	1804.6	279081

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 17**

Trial Number:		17		VSG Frequency(MHz):		5314.8
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	98.8	12	1222.2	1169.2	566865
2	2	74.2	12	1148.8		790881
3	2	79.5	12	1027.5		94028
4	2	78.5	12	923.5		317465
5	1	63.9	12			541217
6	2	73.5	12	1543.5		763013
7	1	56.7	12			66625
8	1	57.7	12			290248
9	2	78.9	12	1056.1		513091
10	1	50.1	12			737158
11	2	79.6	12	1435.4		38997
12	1	62.7	12			262629
13	2	78	12	1102		485451

**Radar Type 5\_Trial 18**

<b>Trial Number:</b>		<b>18</b>		<b>VSG Frequency(MHz):</b>		<b>5317.6</b>	
<b>Number of Bursts in Trial:</b>			<b>19</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	62.7	19			485076	
2	1	61.4	19			7893	
3	2	78.5	19	1360.5		160344	
4	3	93.7	19	983.3	1774.3	312049	
5	2	77.2	19	1132.8		465338	
6	2	69.8	19	1789.2		617300	
7	2	77.2	19	1023.8		141660	
8	1	55.1	19			294589	
9	2	67.7	19	1072.3		446586	
10	3	87.5	19	1642.5	965.5	597492	
11	2	77.7	19	1869.3		122596	
12	3	93.3	19	1517.7	910.7	274853	
13	2	80.4	19	1336.6		427416	
14	1	66.2	19			581583	
15	1	51.5	19			104303	
16	2	67.5	19	1352.5		256366	
17	2	73	19	1732		408672	
18	3	87.2	19	1189.8	1836.8	559548	
19	3	83.4	19	983.6	1446.6	85113	

**Radar Type 5\_Trial 19**

Trial Number:		19		VSG Frequency(MHz):		5312.8
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	54.4	7			453323
2	2	83	7	1637		742838
3	3	91.4	7	1474.6	1186.6	1032362
4	1	57.8	7			126692
5	2	79.9	7	1592.1		416647
6	3	94.1	7	1905.9	1184.9	706212
7	2	71.1	7	1878.9		997026
8	3	92.3	7	1799.7	1292.7	90626
9	2	78.4	7	1408.6		381140
10	3	90	7	1670	1701	670238

**Radar Type 5\_Trial 20**

Trial Number:		20		VSG Frequency(MHz):		5315.2
Number of Bursts in Trial:		14		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	66.1	13			687291
2	2	82.1	13	1857.9		39223
3	3	90.6	13	1673.4	1210.4	245904
4	1	59.1	13			454178
5	3	91.4	13	1138.6	1647.6	659373
6	2	77.3	13	1791.7		13715
7	1	57.1	13			221198
8	1	52.2	13			428848
9	2	67.6	13	1154.4		635505
10	1	53.9	13			844207
11	3	95.8	13	1093.2	1780.2	194888
12	2	80.5	13	1915.5		402287
13	3	92.2	13	1013.8	1830.8	608896
14	2	81.1	13	1744.9		816285

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 21**

Trial Number:		21		VSG Frequency(MHz):		5305.2
Number of Bursts in Trial:		13		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	86.7	12	1675.3	1844.3	182467
2	1	51.7	12			406544
3	3	85.3	12	1456.7	1037.7	628364
4	3	83.5	12	1556.5	1046.5	851151
5	1	57.3	12			155687
6	1	55.2	12			379167
7	3	90.3	12	1895.7	1522.7	600387
8	1	55.8	12			826085
9	1	62.9	12			128160
10	3	96.2	12	1545.8	1209.8	350547
11	1	58.2	12			574984
12	3	95.1	12	1656.9	1458.9	795566
13	2	71.3	12	1877.7		100491

**Radar Type 5\_Trial 22**

Trial Number:		22		VSG Frequency(MHz):		5307.2
Number of Bursts in Trial:		9		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	53.6	7			468582
2	3	98.7	7	1889.3	1143.3	789407
3	3	99.6	7	1343.4	1312.4	1111748
4	1	56	7			105687
5	2	77.5	7	1293.5		428293
6	3	98.9	7	1274.1	1004.1	750482
7	1	65.2	7			1074354
8	1	51.6	7			65890
9	1	55.4	7			388998

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 23**

<b>Trial Number:</b>		<b>23</b>		<b>VSG Frequency(MHz):</b>		<b>5304.8</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	87.2	13	976.8	1182.8	456222	
2	3	84.1	13	1371.9	1726.9	662502	
3	3	89	13	967	1039	16717	
4	3	88.9	13	1357.1	1738.1	223331	
5	3	94.5	13	986.5	1466.5	430680	
6	1	65.2	13			639436	
7	1	55.4	13			846981	
8	2	83.2	13	1070.8		198521	
9	3	87.7	13	1173.3	1039.3	404915	
10	2	74	13	1161		612568	
11	3	90.8	13	1506.2	1882.2	817524	
12	1	60.3	13			173201	
13	2	71.1	13	1801.9		379951	
14	2	78.1	13	1777.9		587132	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 24**

<b>Trial Number:</b>		<b>24</b>		<b>VSG Frequency(MHz):</b>		<b>5305.6</b>	
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	58.8	11			856587	
2	3	87.7	11	1491.3	1450.3	158431	
3	3	85	11	1345	1336	381373	
4	2	73.1	11	1582.9		604827	
5	3	99.7	11	949.3	1372.3	827314	
6	1	60.2	11			131379	
7	2	69.2	11	1913.8		354215	
8	3	94.4	11	1898.6	1169.6	576540	
9	1	50.9	11			802360	
10	3	96.4	11	1332.6	1767.6	103505	
11	1	56	11			327585	
12	1	53.5	11			550800	
13	1	53.5	11			774253	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 25**

<b>Trial Number:</b>		<b>25</b>		<b>VSG Frequency(MHz):</b>		<b>5303.6</b>	
<b>Number of Bursts in Trial:</b>			<b>17</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	68	16	1699		58267	
2	3	98	16	981	1380	228326	
3	2	68.2	16	1687.8		398813	
4	2	81.7	16	1280.3		570087	
5	2	76.9	16	1744.1		37258	
6	2	79.5	16	1206.5		207709	
7	2	81.3	16	1084.7		378378	
8	1	64.6	16			549911	
9	1	51.1	16			16288	
10	3	94.6	16	1633.4	1154.4	186405	
11	2	68.5	16	1641.5		357224	
12	1	60.8	16			528866	
13	2	75	16	1493		697742	
14	1	50.4	16			166097	
15	2	79.7	16	1539.3		336250	
16	1	58.4	16			507802	
17	3	84.2	16	1458.8	1431.8	676043	



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 26**

Trial Number:		26		VSG Frequency(MHz):		5306
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	54.2	10			205511
2	1	61	10			447775
3	2	82.5	10	1009.5		689367
4	2	70.6	10	1232.4		931205
5	3	90.8	10	1674.2	1636.2	175168
6	2	68.4	10	1916.6		417080
7	3	92.6	10	1744.4	1784.4	657633
8	2	75.7	10	1291.3		900689
9	1	65.6	10			145963
10	3	91.4	10	1473.6	1019.6	387034
11	3	86.2	10	1224.8	1531.8	628615
12	3	92.8	10	1855.2	1312.2	869468

**Radar Type 5\_Trial 27**

Trial Number:		27		VSG Frequency(MHz):		5304.4
Number of Bursts in Trial:		15		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	83.1	14	1483.9		92710
2	3	92.6	14	1705.4	1506.4	285381
3	2	82.9	14	1601.1		478875
4	3	91	14	935	1252	671881
5	1	61.7	14			68990
6	3	87.4	14	931.6	936.6	261939
7	3	85.3	14	1581.7	958.7	454720
8	2	69.4	14	1080.6		649017
9	3	92.3	14	1066.7	1366.7	45024
10	1	63.8	14			238778
11	2	80.9	14	1766.1		431503
12	3	89.8	14	1884.2	1616.2	623037
13	1	63.4	14			21285
14	1	57.7	14			215068
15	3	93.2	14	1870.8	1865.8	406865

**Radar Type 5\_Trial 28**

Trial Number:		28		VSG Frequency(MHz):		5308
Number of Bursts in Trial:		8		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	66.5	5			1130152
2	1	62.3	5			1493868
3	2	74.6	5	1573.4		358181
4	1	59.8	5			721861
5	3	89.5	5	1555.5	1249.5	1083093
6	3	85.9	5	1311.1	1756.1	1446033
7	2	66.7	5	1397.3		313511
8	3	92.1	5	1374.9	1126.9	676008

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 29**

Trial Number:		29		VSG Frequency(MHz):		5307.6
Number of Bursts in Trial:		8		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	95	6	1799	1886	1038009
2	2	71	6	1447		1402462
3	2	83	6	1262		268919
4	2	77.3	6	940.7		632072
5	2	79.5	6	1108.5		995039
6	2	75.7	6	966.3		1358052
7	1	55.9	6			224291
8	1	61.3	6			587763

**Radar Type 5\_Trial 30**

Trial Number:		30		VSG Frequency(MHz):		5306.8
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	88.1	8	1827.9	1810.9	758285
2	3	95.2	8	1441.8	1525.8	1048432
3	2	71.9	8	1067.1		143532
4	2	68	8	1477		433771
5	1	51.9	8			725019
6	3	85.6	8	1159.4	1500.4	1013071
7	2	69.9	8	1077.1		107668
8	1	63.3	8			398642
9	1	63.1	8			689270
10	3	94.4	8	1609.6	1429.6	977450

Report No.: TMWK2201000141KR

### Frequency Hopping Radar Test Waveforms

#### Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	( $\mu$ sec)	( $\mu$ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

Report No.: TMWK2201000141KR

**< Channel Bandwidth 80MHz / 5290MHz >**
**Short Pulse Radar Test Waveforms**
**Radar Type 1**

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5290	18	1165.5	858	A	Yes
2	5290	5	1672.2	598	A	Yes
3	5290	10	1432.7	698	A	Yes
4	5290	12	1355	738	A	No
5	5290	4	1730.1	578	A	Yes
6	5290	3	1792.1	558	A	Yes
7	5290	19	1139	878	A	Yes
8	5290	13	1319.3	758	A	Yes
9	5290	17	1193.3	838	A	Yes
10	5290	2	1858.7	538	A	Yes
11	5290	20	1113.6	898	A	Yes
12	5290	11	1392.8	718	A	Yes
13	5290	9	1474.9	678	A	Yes
14	5290	1	1930.5	518	A	No
15	5290	7	1567.4	638	A	No
16	5290	-	813	1230	B	Yes
17	5290	-	585.1	1709	B	No
18	5290	-	684.5	1461	B	No
19	5290	-	795.5	1257	B	Yes
20	5290	-	1029.9	971	B	Yes
21	5290	-	784.9	1274	B	Yes
22	5290	-	489.7	2042	B	Yes
23	5290	-	401.8	2489	B	Yes
24	5290	-	428.4	2334	B	Yes
25	5290	-	686.3	1457	B	Yes
26	5290	-	1538.5	650	B	Yes
27	5290	-	377.4	2650	B	Yes
28	5290	-	1201.9	832	B	No
29	5290	-	456	2193	B	Yes
30	5290	-	555.9	1799	B	Yes

Report No.: TMWK2201000141KR

**Radar Type 2**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5290	23	1.5	220	Yes
2	5290	25	2.5	155	No
3	5290	27	3.5	210	Yes
4	5290	25	2.3	156	Yes
5	5290	29	4.7	153	No
6	5290	25	2.4	165	Yes
7	5290	28	4.1	218	Yes
8	5290	29	4.8	212	Yes
9	5290	29	4.7	199	Yes
10	5290	24	1.6	205	Yes
11	5290	25	2.6	186	No
12	5290	24	2	208	Yes
13	5290	27	3.5	188	Yes
14	5290	28	4.4	179	Yes
15	5290	26	3.2	229	Yes
16	5290	27	3.6	183	Yes
17	5290	26	2.8	181	Yes
18	5290	29	4.7	180	No
19	5290	24	1.6	226	Yes
20	5290	26	3.1	184	Yes
21	5290	26	2.8	189	Yes
22	5290	24	1.6	167	Yes
23	5290	26	3.1	157	Yes
24	5290	25	2.7	227	Yes
25	5290	27	3.8	221	Yes
26	5290	25	2.4	202	Yes
27	5290	27	3.4	171	Yes
28	5290	23	1	182	Yes
29	5290	23	1.3	197	Yes
30	5290	24	1.7	194	Yes

Report No.: TMWK2201000141KR

**Radar Type 3**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5290	16	6.5	232	Yes
2	5290	17	7.5	239	Yes
3	5290	17	8.5	372	Yes
4	5290	16	7.3	382	No
5	5290	18	9.7	489	No
6	5290	17	7.4	451	No
7	5290	18	9.1	204	Yes
8	5290	18	9.8	314	Yes
9	5290	18	9.7	225	Yes
10	5290	16	6.6	228	Yes
11	5290	17	7.6	463	Yes
12	5290	16	7	365	Yes
13	5290	17	8.5	211	No
14	5290	18	9.4	325	Yes
15	5290	17	8.2	474	Yes
16	5290	17	8.6	400	Yes
17	5290	17	7.8	468	No
18	5290	18	9.7	202	Yes
19	5290	16	6.6	410	Yes
20	5290	17	8.1	439	Yes
21	5290	17	7.8	409	Yes
22	5290	16	6.6	261	Yes
23	5290	17	8.1	475	Yes
24	5290	17	7.7	333	Yes
25	5290	18	8.8	216	Yes
26	5290	17	7.4	260	Yes
27	5290	17	8.4	363	Yes
28	5290	16	6	452	Yes
29	5290	16	6.3	272	Yes
30	5290	16	6.7	268	No

Report No.: TMWK2201000141KR

**Radar Type 4**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5290	12	12.2	232	Yes
2	5290	13	14.5	239	No
3	5290	15	16.5	372	Yes
4	5290	13	13.9	382	Yes
5	5290	16	19.2	489	Yes
6	5290	13	14.1	451	Yes
7	5290	15	18	204	Yes
8	5290	16	19.4	314	Yes
9	5290	16	19.3	225	Yes
10	5290	12	12.4	228	Yes
11	5290	14	14.7	463	No
12	5290	13	13.3	365	No
13	5290	15	16.6	211	Yes
14	5290	16	18.5	325	No
15	5290	14	15.9	474	Yes
16	5290	15	16.9	400	No
17	5290	14	15.1	468	Yes
18	5290	16	19.2	202	Yes
19	5290	12	12.5	410	Yes
20	5290	14	15.6	439	Yes
21	5290	14	15	409	No
22	5290	12	12.3	261	Yes
23	5290	14	15.8	475	No
24	5290	14	14.8	333	Yes
25	5290	15	17.3	216	Yes
26	5290	13	14.2	260	Yes
27	5290	14	16.3	363	Yes
28	5290	12	11	452	Yes
29	5290	12	11.6	272	Yes
30	5290	12	12.7	268	Yes



**Long Pulse Radar Test Waveforms**

**Radar Type 5\_Trial 1**

Trial Number:		1		VSG Frequency(MHz):		5290
Number of Bursts in Trial:		9		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	56.8	7			505791
2	2	69.3	7	1325.7		827892
3	2	80.5	7	1003.5		1150939
4	1	66.1	7			142835
5	3	95.5	7	1398.5	1176.5	464917
6	2	67.2	7	1488.8		787881
7	3	88.7	7	1674.3	1078.3	1109444
8	3	96.5	7	1157.5	1705.5	102804
9	3	95.7	7	1814.3	1790.3	424833

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 2**

<b>Trial Number:</b>		<b>2</b>		<b>VSG Frequency(MHz):</b>		<b>5290</b>	
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	57.8	11			518559	
2	2	70.7	11	1260.3		740770	
3	1	62.7	11			43804	
4	2	81.1	11	1853.9		266682	
5	3	91.6	11	1182.4	1597.4	489248	
6	2	77.3	11	1722.7		712574	
7	2	82.7	11	1825.3		16221	
8	2	72.7	11	1514.3		239312	
9	3	95.2	11	1113.8	1399.8	462008	
10	1	58.4	11			687000	
11	2	75.6	11	1253.4		909259	
12	2	72	11	1240		211897	
13	1	57.6	11			435781	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 3**

<b>Trial Number:</b>		<b>3</b>		<b>VSG Frequency(MHz):</b>		<b>5290</b>	
<b>Number of Bursts in Trial:</b>			<b>15</b>		<b>Successful Detection:</b>		<b>Yes</b>
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	2	76.6	14	1083.4		570628	
2	2	71	14	1356		763437	
3	3	84.9	14	1333.1	1609.1	159379	
4	2	67.9	14	975.1		353429	
5	2	79.7	14	1051.3		546819	
6	1	50.5	14			741113	
7	1	53.6	14			136172	
8	1	59.6	14			329765	
9	1	66.5	14			523306	
10	3	92.7	14	1566.3	1761.3	713583	
11	3	97.9	14	1227.1	952.1	111937	
12	2	75.9	14	1762.1		305154	
13	1	54.4	14			499561	
14	3	87.8	14	1494.2	1300.2	691134	
15	3	92.7	14	1263.3	1112.3	88160	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 4**

Trial Number:		4		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			12		Successful Detection: No	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	85.8	10	1669.2	1410.2	351791
2	2	79.1	10	1699.9		594029
3	1	61.1	10			837158
4	1	54.1	10			80802
5	3	86.9	10	1127.1	923.1	322391
6	2	82.5	10	1687.5		563973
7	1	54.6	10			807675
8	3	88.1	10	1002.9	1691.9	50815
9	3	87.2	10	1736.8	1625.8	292220
10	2	71.4	10	1335.6		534558
11	2	69.2	10	1510.8		775987
12	1	66.4	10			21153

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 5**

Trial Number:		5		VSG Frequency(MHz):		5290			
Number of Bursts in Trial:			19			Successful Detection:		Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval			
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)			
1	2	77.4	19	1011.6		165995			
2	2	71	19	1222		318441			
3	1	56.5	19			471624			
4	1	57.7	19			624176			
5	3	93.4	19	1545.6	1810.6	146546			
6	2	75	19	953		299659			
7	3	99.3	19	1336.7	1215.7	451332			
8	3	92.8	19	1885.2	1205.2	602340			
9	1	59.5	19			128500			
10	2	81.3	19	1747.7		280671			
11	2	77.6	19	1643.4		432946			
12	3	87.6	19	1699.4	999.4	584139			
13	3	88.2	19	1783.8	1110.8	109116			
14	3	92.8	19	1199.2	1610.2	261386			
15	3	86	19	1886	986	413437			
16	3	91.4	19	1775.6	1318.6	565228			
17	2	78.1	19	1597.9		90631			
18	1	64.8	19			243625			
19	1	55.2	19			396629			

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 6**

Trial Number:		6		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	87.2	10	1563.8	1839.8	867122
2	3	89.6	10	1341.4	1512.4	113816
3	3	90	10	947	1541	355467
4	3	86.9	10	1057.1	1487.1	596574
5	1	66	10			840937
6	3	97.4	10	1336.6	1454.6	84105
7	2	71.5	10	1171.5		325946
8	3	85.2	10	996.8	948.8	567402
9	2	75.1	10	1758.9		809271
10	2	72	10	1085		54426
11	2	82.9	10	1306.1		296377
12	3	97.7	10	1308.3	1844.3	537126

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 7**

Trial Number:		7		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	96.6	17	1302.4	999.4	518206
2	1	60.4	17			16439
3	3	84.2	17	1834.8	1597.8	176758
4	2	76.3	17	1217.7		338480
5	3	88.6	17	1289.4	1771.4	497794
6	1	59.9	17			661425
7	3	84.9	17	1261.1	1365.1	157222
8	1	54.5	17			319091
9	1	50.8	17			480828
10	1	55.1	17			641719
11	3	95.1	17	1675.9	1013.9	137485
12	2	83.2	17	1701.8		298500
13	1	54.5	17			460570
14	1	51.5	17			621845
15	2	73.6	17	1091.4		117946
16	1	65.9	17			279611
17	3	94.1	17	1105.9	1735.9	438645
18	3	96.5	17	903.5	1084.5	599717

**Radar Type 5\_Trial 8**

Trial Number:		8		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	63.3	19			88435
2	1	60	19			233755
3	2	72.4	19	996.6		377962
4	1	66.2	19			524214
5	2	82	19	933		70391
6	2	76.9	19	1208.1		215368
7	3	87.4	19	1497.6	1002.6	359056
8	3	84.1	19	1510.9	1010.9	503764
9	3	90.5	19	1691.5	1759.5	52367
10	1	60.4	19			197691
11	2	71.9	19	1077.1		342454
12	3	89.9	19	1776.1	1160.1	485224
13	2	74.1	19	1044.9		34745
14	2	70.7	19	932.3		179725
15	2	76.6	19	1715.4		324324
16	3	83.6	19	1448.4	917.4	468103
17	2	81.1	19	1598.9		16866
18	2	77.1	19	1244.9		161750
19	1	54	19			307173
20	1	66.5	19			452528



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 9**

Trial Number:		9		VSG Frequency(MHz):		5290
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	97.5	19	918.5	1278.5	627010
2	2	81.4	19	1232.6		151499
3	3	93.2	19	1061.8	1784.8	303073
4	1	60.3	19			457641
5	1	54.3	19			609973
6	2	82.1	19	1142.9		132665
7	3	94.5	19	1324.5	1462.5	284456
8	1	56.8	19			438708
9	2	82.4	19	1103.6		590746
10	1	64.5	19			114107
11	2	73.8	19	1744.2		266070
12	1	55.5	19			419524
13	3	91.2	19	1458.8	988.8	570171
14	2	78.7	19	1877.3		94960
15	1	58.7	19			247970
16	2	72.9	19	1124.1		400470
17	2	75.3	19	935.7		553009
18	2	80.3	19	1882.7		76261
19	2	78.5	19	1258.5		228792

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 10**

Trial Number:		10		VSG Frequency(MHz):		5290
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57.2	7			727000
2	3	88.9	7	1619.1	1067.1	1014862
3	1	54.5	7			109740
4	2	69.4	7	1546.6		399887
5	2	74.5	7	1172.5		690242
6	2	82.6	7	1539.4		980619
7	1	60.9	7			73901
8	2	81	7	1840		363866
9	2	74.4	7	1378.6		654563
10	1	56.5	7			946035

**Radar Type 5\_Trial 11**

Trial Number:		11		VSG Frequency(MHz):		5294.4
Number of Bursts in Trial:		13		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	70.9	11	1044.1		29261
2	2	70.5	11	1769.5		252311
3	3	96.5	11	1384.5	1247.5	474890
4	1	61.9	11			700112
5	2	77.5	11	1837.5		1761
6	3	99.1	11	1138.9	1158.9	224578
7	2	81.9	11	1813.1		448072
8	2	66.9	11	964.1		671896
9	1	62	11			895362
10	1	61.8	11			197821
11	3	100	11	1303	1697	419849
12	2	82.4	11	1740.6		643536
13	2	80.6	11	1276.4		867122

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 12**

<b>Trial Number:</b>		<b>12</b>		<b>VSG Frequency(MHz):</b>		<b>5293.6</b>	
<b>Number of Bursts in Trial:</b>			<b>11</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	51.6	9			201180	
2	2	76	9	1002		464941	
3	3	86.7	9	1699.3	1592.3	727080	
4	1	66.3	9			994255	
5	3	98.8	9	1196.2	1814.2	168219	
6	3	95.5	9	1724.5	1512.5	431449	
7	1	61.9	9			697377	
8	1	53.7	9			961212	
9	1	58.2	9			136083	
10	1	50.7	9			400380	
11	3	98.7	9	1636.3	1586.3	662730	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 13**

<b>Trial Number:</b>		<b>13</b>		<b>VSG Frequency(MHz):</b>		<b>5295.6</b>	
<b>Number of Bursts in Trial:</b>			<b>16</b>		<b>Successful Detection:</b>		<b>No</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	96.8	14	910.2	965.2	636157	
2	2	77.7	14	1813.3		70943	
3	3	92.9	14	1514.1	1790.1	251524	
4	1	61.9	14			434008	
5	2	68.6	14	1397.4		614910	
6	2	77.7	14	1548.3		48726	
7	3	93.5	14	1117.5	1233.5	229702	
8	1	51	14			411980	
9	2	70.1	14	1071.9		592107	
10	1	50.2	14			26434	
11	1	61.5	14			207894	
12	3	94	14	1397	1332	387915	
13	2	77.3	14	1159.7		570305	
14	3	93.7	14	1350.3	1896.3	4064	
15	1	63.7	14			185575	
16	2	79.7	14	1764.3		366216	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 14**

<b>Trial Number:</b>		<b>14</b>		<b>VSG Frequency(MHz):</b>		<b>5297.2</b>	
<b>Number of Bursts in Trial:</b>			<b>18</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	76.8	18	1816.2		486496	
2	1	56	18			649127	
3	1	63.3	18			145037	
4	2	68.5	18	1680.5		305438	
5	2	78.5	18	1824.5		466217	
6	2	74.9	18	1822.1		627521	
7	1	58.3	18			125290	
8	1	52.8	18			286330	
9	3	93.5	18	1653.5	1489.5	445360	
10	3	87.9	18	1295.1	1248.1	606743	
11	1	66.3	18			105370	
12	1	62.2	18			266703	
13	3	85.6	18	1885.4	1377.4	425493	
14	1	62.4	18			589415	
15	1	52.8	18			85503	
16	1	62.7	18			246607	
17	2	69.7	18	1876.3		406665	
18	3	97.9	18	954.1	1546.1	566929	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 15**

<b>Trial Number:</b>		<b>15</b>		<b>VSG Frequency(MHz):</b>		<b>5295.2</b>	
<b>Number of Bursts in Trial:</b>			<b>15</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	65.1	13			78786	
2	3	99.8	13	948.2	1779.2	271291	
3	1	56.1	13			466238	
4	2	70	13	1295		658425	
5	3	98.3	13	1720.7	972.7	54697	
6	3	84.4	13	1367.6	1238.6	247761	
7	2	68.4	13	1740.6		441115	
8	3	99	13	1639	1211	633835	
9	1	62.2	13			31029	
10	2	80.3	13	970.7		224448	
11	3	90.2	13	1382.8	1677.8	416419	
12	2	82	13	1490		610871	
13	1	59.3	13			7180	
14	2	72.6	13	1167.4		200518	
15	3	85.1	13	1007.9	1162.9	393401	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 16**

Trial Number:		16		VSG Frequency(MHz):		5296
Number of Bursts in Trial:		16		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	65.8	15			551501
2	3	85.2	15	1543.8	1265.8	729923
3	3	97.7	15	1813.3	1408.3	165204
4	3	95	15	932	1770	346186
5	2	82.2	15	1407.8		527759
6	2	70.1	15	1101.9		709276
7	2	71.8	15	1694.2		143143
8	2	69.4	15	1890.6		324158
9	3	90	15	1562	1234	504798
10	2	68.5	15	1811.5		686164
11	2	80.8	15	1500.2		120866
12	1	61.3	15			302644
13	2	81.2	15	1400.8		483304
14	1	65.5	15			666028
15	1	57.7	15			98815
16	3	97.4	15	1367.6	1804.6	279081

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 17**

Trial Number:		17		VSG Frequency(MHz):		5294.8
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	98.8	12	1222.2	1169.2	566865
2	2	74.2	12	1148.8		790881
3	2	79.5	12	1027.5		94028
4	2	78.5	12	923.5		317465
5	1	63.9	12			541217
6	2	73.5	12	1543.5		763013
7	1	56.7	12			66625
8	1	57.7	12			290248
9	2	78.9	12	1056.1		513091
10	1	50.1	12			737158
11	2	79.6	12	1435.4		38997
12	1	62.7	12			262629
13	2	78	12	1102		485451



**Radar Type 5\_Trial 18**

<b>Trial Number:</b>		<b>18</b>		<b>VSG Frequency(MHz):</b>		<b>5297.6</b>
<b>Number of Bursts in Trial:</b>			<b>19</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	1	62.7	19			485076
2	1	61.4	19			7893
3	2	78.5	19	1360.5		160344
4	3	93.7	19	983.3	1774.3	312049
5	2	77.2	19	1132.8		465338
6	2	69.8	19	1789.2		617300
7	2	77.2	19	1023.8		141660
8	1	55.1	19			294589
9	2	67.7	19	1072.3		446586
10	3	87.5	19	1642.5	965.5	597492
11	2	77.7	19	1869.3		122596
12	3	93.3	19	1517.7	910.7	274853
13	2	80.4	19	1336.6		427416
14	1	66.2	19			581583
15	1	51.5	19			104303
16	2	67.5	19	1352.5		256366
17	2	73	19	1732		408672
18	3	87.2	19	1189.8	1836.8	559548
19	3	83.4	19	983.6	1446.6	85113

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 19**

<b>Trial Number:</b>		<b>19</b>		<b>VSG Frequency(MHz):</b>		<b>5292.8</b>	
<b>Number of Bursts in Trial:</b>			<b>10</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	54.4	7			453323	
2	2	83	7	1637		742838	
3	3	91.4	7	1474.6	1186.6	1032362	
4	1	57.8	7			126692	
5	2	79.9	7	1592.1		416647	
6	3	94.1	7	1905.9	1184.9	706212	
7	2	71.1	7	1878.9		997026	
8	3	92.3	7	1799.7	1292.7	90626	
9	2	78.4	7	1408.6		381140	
10	3	90	7	1670	1701	670238	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 20**

<b>Trial Number:</b>		<b>20</b>		<b>VSG Frequency(MHz):</b>		<b>5295.2</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	66.1	13			687291	
2	2	82.1	13	1857.9		39223	
3	3	90.6	13	1673.4	1210.4	245904	
4	1	59.1	13			454178	
5	3	91.4	13	1138.6	1647.6	659373	
6	2	77.3	13	1791.7		13715	
7	1	57.1	13			221198	
8	1	52.2	13			428848	
9	2	67.6	13	1154.4		635505	
10	1	53.9	13			844207	
11	3	95.8	13	1093.2	1780.2	194888	
12	2	80.5	13	1915.5		402287	
13	3	92.2	13	1013.8	1830.8	608896	
14	2	81.1	13	1744.9		816285	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 21**

Trial Number:		21		VSG Frequency(MHz):		5285.2
Number of Bursts in Trial:		13		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	86.7	12	1675.3	1844.3	182467
2	1	51.7	12			406544
3	3	85.3	12	1456.7	1037.7	628364
4	3	83.5	12	1556.5	1046.5	851151
5	1	57.3	12			155687
6	1	55.2	12			379167
7	3	90.3	12	1895.7	1522.7	600387
8	1	55.8	12			826085
9	1	62.9	12			128160
10	3	96.2	12	1545.8	1209.8	350547
11	1	58.2	12			574984
12	3	95.1	12	1656.9	1458.9	795566
13	2	71.3	12	1877.7		100491

**Radar Type 5\_Trial 22**

Trial Number:		22		VSG Frequency(MHz):		5287.2
Number of Bursts in Trial:		9		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	53.6	7			468582
2	3	98.7	7	1889.3	1143.3	789407
3	3	99.6	7	1343.4	1312.4	1111748
4	1	56	7			105687
5	2	77.5	7	1293.5		428293
6	3	98.9	7	1274.1	1004.1	750482
7	1	65.2	7			1074354
8	1	51.6	7			65890
9	1	55.4	7			388998

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 23**

<b>Trial Number:</b>		<b>23</b>		<b>VSG Frequency(MHz):</b>		<b>5284.8</b>
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	3	87.2	13	976.8	1182.8	456222
2	3	84.1	13	1371.9	1726.9	662502
3	3	89	13	967	1039	16717
4	3	88.9	13	1357.1	1738.1	223331
5	3	94.5	13	986.5	1466.5	430680
6	1	65.2	13			639436
7	1	55.4	13			846981
8	2	83.2	13	1070.8		198521
9	3	87.7	13	1173.3	1039.3	404915
10	2	74	13	1161		612568
11	3	90.8	13	1506.2	1882.2	817524
12	1	60.3	13			173201
13	2	71.1	13	1801.9		379951
14	2	78.1	13	1777.9		587132

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 24**

<b>Trial Number:</b>		<b>24</b>		<b>VSG Frequency(MHz):</b>		<b>5285.6</b>
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	1	58.8	11			856587
2	3	87.7	11	1491.3	1450.3	158431
3	3	85	11	1345	1336	381373
4	2	73.1	11	1582.9		604827
5	3	99.7	11	949.3	1372.3	827314
6	1	60.2	11			131379
7	2	69.2	11	1913.8		354215
8	3	94.4	11	1898.6	1169.6	576540
9	1	50.9	11			802360
10	3	96.4	11	1332.6	1767.6	103505
11	1	56	11			327585
12	1	53.5	11			550800
13	1	53.5	11			774253

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 25**

Trial Number:		25		VSG Frequency(MHz):		5283.6
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	68	16	1699		58267
2	3	98	16	981	1380	228326
3	2	68.2	16	1687.8		398813
4	2	81.7	16	1280.3		570087
5	2	76.9	16	1744.1		37258
6	2	79.5	16	1206.5		207709
7	2	81.3	16	1084.7		378378
8	1	64.6	16			549911
9	1	51.1	16			16288
10	3	94.6	16	1633.4	1154.4	186405
11	2	68.5	16	1641.5		357224
12	1	60.8	16			528866
13	2	75	16	1493		697742
14	1	50.4	16			166097
15	2	79.7	16	1539.3		336250
16	1	58.4	16			507802
17	3	84.2	16	1458.8	1431.8	676043

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 26**

<b>Trial Number:</b>		26		<b>VSG Frequency(MHz):</b>		5286
<b>Number of Bursts in Trial:</b>		12		<b>Successful Detection:</b>		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	54.2	10			205511
2	1	61	10			447775
3	2	82.5	10	1009.5		689367
4	2	70.6	10	1232.4		931205
5	3	90.8	10	1674.2	1636.2	175168
6	2	68.4	10	1916.6		417080
7	3	92.6	10	1744.4	1784.4	657633
8	2	75.7	10	1291.3		900689
9	1	65.6	10			145963
10	3	91.4	10	1473.6	1019.6	387034
11	3	86.2	10	1224.8	1531.8	628615
12	3	92.8	10	1855.2	1312.2	869468



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 27**

Trial Number:		27		VSG Frequency(MHz):		5284.4
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	83.1	14	1483.9		92710
2	3	92.6	14	1705.4	1506.4	285381
3	2	82.9	14	1601.1		478875
4	3	91	14	935	1252	671881
5	1	61.7	14			68990
6	3	87.4	14	931.6	936.6	261939
7	3	85.3	14	1581.7	958.7	454720
8	2	69.4	14	1080.6		649017
9	3	92.3	14	1066.7	1366.7	45024
10	1	63.8	14			238778
11	2	80.9	14	1766.1		431503
12	3	89.8	14	1884.2	1616.2	623037
13	1	63.4	14			21285
14	1	57.7	14			215068
15	3	93.2	14	1870.8	1865.8	406865

**Radar Type 5\_Trial 28**

Trial Number:		28		VSG Frequency(MHz):		5288
Number of Bursts in Trial:			8		Successful Detection: No	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	66.5	5			1130152
2	1	62.3	5			1493868
3	2	74.6	5	1573.4		358181
4	1	59.8	5			721861
5	3	89.5	5	1555.5	1249.5	1083093
6	3	85.9	5	1311.1	1756.1	1446033
7	2	66.7	5	1397.3		313511
8	3	92.1	5	1374.9	1126.9	676008

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 29**

Trial Number:		29		VSG Frequency(MHz):		5287.6
Number of Bursts in Trial:		8		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	95	6	1799	1886	1038009
2	2	71	6	1447		1402462
3	2	83	6	1262		268919
4	2	77.3	6	940.7		632072
5	2	79.5	6	1108.5		995039
6	2	75.7	6	966.3		1358052
7	1	55.9	6			224291
8	1	61.3	6			587763

**Radar Type 5\_Trial 30**

Trial Number:		30		VSG Frequency(MHz):		5286.8
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	88.1	8	1827.9	1810.9	758285
2	3	95.2	8	1441.8	1525.8	1048432
3	2	71.9	8	1067.1		143532
4	2	68	8	1477		433771
5	1	51.9	8			725019
6	3	85.6	8	1159.4	1500.4	1013071
7	2	69.9	8	1077.1		107668
8	1	63.3	8			398642
9	1	63.1	8			689270
10	3	94.4	8	1609.6	1429.6	977450

Report No.: TMWK2201000141KR

### Frequency Hopping Radar Test Waveforms

#### Radar Type 6

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	( $\mu$ sec)	( $\mu$ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

Report No.: TMWK2201000141KR

**< Channel Bandwidth 20MHz / 5500 MHz >**
**Short Pulse Radar Test Waveforms**
**Radar Type 1**

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5500	12	1355	738	A	Yes
2	5500	15	1253.1	798	A	Yes
3	5500	14	1285.3	778	A	Yes
4	5500	23	326.2	3066	A	No
5	5500	2	1858.7	538	A	No
6	5500	6	1618.1	618	A	Yes
7	5500	11	1392.8	718	A	Yes
8	5500	20	1113.6	898	A	No
9	5500	1	1930.5	518	A	No
10	5500	10	1432.7	698	A	No
11	5500	13	1319.3	758	A	No
12	5500	7	1567.4	638	A	No
13	5500	3	1792.1	558	A	No
14	5500	5	1672.2	598	A	Yes
15	5500	22	1066.1	938	A	Yes
16	5500	-	934.6	1070	B	Yes
17	5500	-	709.2	1410	B	Yes
18	5500	-	348.3	2871	B	Yes
19	5500	-	380.1	2631	B	Yes
20	5500	-	513.6	1947	B	Yes
21	5500	-	631.7	1583	B	No
22	5500	10	1432.7	698	B	Yes
23	5500	-	464	2155	B	Yes
24	5500	-	327.1	3057	B	Yes
25	5500	-	1697.8	589	B	Yes
26	5500	-	659.2	1517	B	No
27	5500	-	419.6	2383	B	Yes
28	5500	-	568.8	1758	B	No
29	5500	-	512	1953	B	Yes
30	5500	-	1477.1	677	B	Yes

Report No.: TMWK2201000141KR

**Radar Type 2**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5500	24	1.8	179	Yes
2	5500	25	2.6	150	No
3	5500	26	3.2	173	Yes
4	5500	26	3.1	194	Yes
5	5500	28	3.9	207	Yes
6	5500	27	3.5	227	Yes
7	5500	24	1.6	226	Yes
8	5500	28	4.1	220	Yes
9	5500	28	4.2	195	Yes
10	5500	25	2.7	210	Yes
11	5500	23	1.4	211	Yes
12	5500	28	4.4	203	Yes
13	5500	26	3.1	190	Yes
14	5500	29	4.7	160	Yes
15	5500	25	2.2	193	Yes
16	5500	27	3.5	181	Yes
17	5500	26	3	161	Yes
18	5500	28	4	204	Yes
19	5500	24	1.8	175	Yes
20	5500	25	2.7	209	Yes
21	5500	25	2.6	200	Yes
22	5500	23	1.5	152	No
23	5500	23	1	177	Yes
24	5500	29	5	222	Yes
25	5500	24	1.6	151	Yes
26	5500	23	1.4	216	Yes
27	5500	29	4.8	217	No
28	5500	27	3.6	198	Yes
29	5500	24	2	192	Yes
30	5500	26	2.8	196	Yes

Report No.: TMWK2201000141KR

**Radar Type 3**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5500	16	6.8	207	Yes
2	5500	17	7.6	294	Yes
3	5500	17	8.2	387	Yes
4	5500	17	8.1	493	Yes
5	5500	18	8.9	465	Yes
6	5500	17	8.5	398	Yes
7	5500	16	6.6	308	Yes
8	5500	18	9.1	255	No
9	5500	18	9.2	353	Yes
10	5500	17	7.7	337	Yes
11	5500	16	6.4	322	Yes
12	5500	18	9.4	396	Yes
13	5500	17	8.1	264	Yes
14	5500	18	9.7	412	Yes
15	5500	16	7.2	446	Yes
16	5500	17	8.5	300	Yes
17	5500	17	8	474	Yes
18	5500	18	9	499	Yes
19	5500	16	6.8	497	Yes
20	5500	17	7.7	256	Yes
21	5500	17	7.6	476	Yes
22	5500	16	6.5	208	No
23	5500	16	6	381	Yes
24	5500	18	10	334	Yes
25	5500	16	6.6	217	Yes
26	5500	16	6.4	344	Yes
27	5500	18	9.8	479	Yes
28	5500	17	8.6	341	Yes
29	5500	16	7	271	Yes
30	5500	17	7.8	206	Yes

Report No.: TMWK2201000141KR

**Radar Type 4**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5500	13	12.8	207	Yes
2	5500	13	14.5	294	No
3	5500	14	16	387	Yes
4	5500	14	15.8	493	Yes
5	5500	15	17.5	465	Yes
6	5500	15	16.6	398	Yes
7	5500	12	12.4	308	Yes
8	5500	15	18	255	Yes
9	5500	15	18.1	353	Yes
10	5500	14	14.8	337	No
11	5500	12	11.9	322	Yes
12	5500	16	18.6	396	Yes
13	5500	14	15.8	264	Yes
14	5500	16	19.2	412	Yes
15	5500	13	13.8	446	Yes
16	5500	15	16.7	300	Yes
17	5500	14	15.5	474	Yes
18	5500	15	17.8	499	Yes
19	5500	13	12.8	497	No
20	5500	14	14.8	256	Yes
21	5500	13	14.5	476	Yes
22	5500	12	12.1	208	No
23	5500	12	11	381	Yes
24	5500	16	19.9	334	Yes
25	5500	12	12.4	217	Yes
26	5500	12	12	344	No
27	5500	16	19.5	479	Yes
28	5500	15	16.8	341	No
29	5500	13	13.3	271	Yes
30	5500	14	15.1	206	Yes

Report No.: TMWK2201000141KR

### Long Pulse Radar Test Waveforms

#### Radar Type 5\_Trial 1

Trial Number:		1		VSG Frequency(MHz):		5500
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	60.3	8			538543
2	2	69.5	8	1830.5		828299
3	2	77.7	8	1419.3		1118893
4	2	76.4	8	1591.6		211834
5	3	85.8	8	1869.2	1709.2	501332
6	2	81	8	1043		792758
7	1	58	8			1083979
8	3	88.9	8	939.1	1611.1	176037
9	3	89.1	8	1684.9	1707.9	465820
10	2	71.1	8	1358.9		756612

#### Radar Type 5\_Trial 2

Trial Number:		2		VSG Frequency(MHz):		5500
Number of Bursts in Trial:		13		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	55.2	11			806494
2	3	91.8	11	1489.2	1099.2	107844
3	2	76.7	11	1409.3		330945
4	3	95.3	11	1016.7	1753.7	553296
5	1	65.4	11			778762
6	2	81.7	11	1542.3		80412
7	2	75.2	11	1769.8		303483
8	3	87.5	11	1404.5	1049.5	526172
9	1	60.3	11			751174
10	2	71.4	11	1741.6		52925
11	2	69.8	11	1090.2		276131
12	1	56.1	11			500009
13	1	50.1	11			723735



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 3**

<b>Trial Number:</b>		<b>3</b>		<b>VSG Frequency(MHz):</b>		<b>5500</b>	
<b>Number of Bursts in Trial:</b>			<b>15</b>		<b>Successful Detection:</b>		<b>Yes</b>
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	3	99.5	13	1850.5	1039.5	22027	
2	1	57.9	13			215887	
3	1	55.7	13			409202	
4	3	96.8	13	1656.2	1075.2	600997	
5	2	82.3	13	1813.7		794417	
6	1	63	13			191860	
7	2	72.9	13	1744.1		384799	
8	2	73.6	13	1095.4		578443	
9	3	98.7	13	1215.3	1744.3	769416	
10	1	54.7	13			168149	
11	1	56.1	13			361951	
12	3	98.9	13	1869.1	1819.1	552729	
13	1	52.7	13			749349	
14	2	68.1	13	1745.9		143814	
15	2	77.8	13	1338.2		337066	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 4**

<b>Trial Number:</b>		<b>4</b>		<b>VSG Frequency(MHz):</b>		<b>5500</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>No</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	57.2	13			569325	
2	2	75.6	13	1575.4		775162	
3	2	81	13	1531		128658	
4	1	52.5	13			336636	
5	3	89.9	13	1277.1	1257.1	542392	
6	3	86.9	13	1187.1	1805.1	749101	
7	1	52	13			103445	
8	1	62	13			310922	
9	3	90.2	13	1883.8	1803.8	516399	
10	2	69.2	13	1860.8		724362	
11	2	79	13	1173		77733	
12	3	100	13	1251	1114	284388	
13	1	55.8	13			492830	
14	2	80.6	13	951.4		699190	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 5**

<b>Trial Number:</b>		<b>5</b>		<b>VSG Frequency(MHz):</b>		<b>5500</b>	
<b>Number of Bursts in Trial:</b>			<b>17</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	85.7	16	1314.3	1193.3	42889	
2	1	61.6	16			213927	
3	1	51.1	16			384581	
4	1	54.1	16			555549	
5	2	69.4	16	1043.6		21967	
6	2	78.2	16	1725.8		192453	
7	2	68.4	16	1914.6		362610	
8	2	80	16	1229		533883	
9	3	84.3	16	979.7	1616.7	952	
10	2	75.7	16	1470.3		171434	
11	2	75.9	16	981.1		341872	
12	1	66.2	16			513554	
13	3	97.5	16	1455.5	914.5	681380	
14	1	56.6	16			150837	
15	3	87.1	16	1445.9	1500.9	320207	
16	2	70.5	16	1115.5		491765	
17	3	96.4	16	1473.6	1669.6	660569	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 6**

Trial Number:		6		VSG Frequency(MHz):		5500
Number of Bursts in Trial:		16		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	62.7	14			137777
2	1	63.6	14			319266
3	3	97.4	14	1565.6	1777.6	498425
4	2	80.2	14	1083.8		681125
5	3	84.7	14	1073.3	1835.3	114946
6	3	90.4	14	1061.6	1319.6	296092
7	2	67.2	14	1074.8		477719
8	1	66.3	14			660122
9	1	63.2	14			93092
10	3	97.4	14	1100.6	1374.6	273677
11	3	96	14	931	1801	454414
12	1	65.6	14			637544
13	2	77.5	14	970.5		70640
14	1	53.2	14			252200
15	1	63	14			434077
16	2	67	14	1854		613796

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 7**

<b>Trial Number:</b>		<b>7</b>		<b>VSG Frequency(MHz):</b>		<b>5500</b>	
<b>Number of Bursts in Trial:</b>			<b>10</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	93.1	7	1042.9	1307.9	77308	
2	1	62.9	7			368047	
3	3	93.2	7	1510.8	1762.8	657047	
4	1	55	7			949670	
5	3	94.7	7	1539.3	1405.3	41570	
6	2	83.3	7	1870.7		331911	
7	3	89.9	7	1215.1	1290.1	621584	
8	1	59.4	7			913757	
9	2	77.2	7	1589.8		5860	
10	3	91.4	7	1671.6	1355.6	295755	

**Radar Type 5\_Trial 8**

<b>Trial Number:</b>		<b>8</b>		<b>VSG Frequency(MHz):</b>		<b>5500</b>	
<b>Number of Bursts in Trial:</b>			<b>18</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	55.3	17			325819	
2	2	76.7	17	1344.3		486546	
3	2	73.7	17	1159.3		646985	
4	3	89.5	17	1437.5	1600.5	144101	
5	3	95.5	17	1021.5	1000.5	304844	
6	2	75	17	1354		466269	
7	2	69.7	17	1678.3		627013	
8	2	72.8	17	1149.2		124567	
9	1	66.3	17			286174	
10	3	86.4	17	1349.6	1285.6	445610	
11	1	58.4	17			608571	
12	1	50.3	17			104936	
13	1	51	17			266211	
14	2	71.2	17	1060.8		426863	
15	3	83.9	17	1809.1	1265.1	585966	
16	3	87.9	17	1795.1	1473.1	84661	
17	1	56.2	17			246288	
18	2	80.9	17	1444.1		406728	

**Radar Type 5\_Trial 9**

Trial Number:		9		VSG Frequency(MHz):		5500
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	72.5	17	1638.5		567587
2	1	64.4	17			65243
3	1	56.7	17			226653
4	2	72.4	17	1211.6		386854
5	1	62.8	17			549277
6	3	99.2	17	1255.8	979.8	45204
7	1	54.4	17			206739
8	3	93.7	17	1153.3	1131.3	366489
9	3	93.9	17	1786.1	1903.1	526010
10	1	65.4	17			25477
11	1	51.7	17			186792
12	2	79.4	17	1146.6		347747
13	2	73.7	17	1183.3		508768
14	3	88	17	1033	1507	5585
15	1	53	17			166965
16	3	93.4	17	1754.6	909.6	326849
17	3	85.1	17	1255.9	1436.9	487576
18	3	90.5	17	1820.5	1148.5	647431

**Radar Type 5\_Trial 10**

Trial Number:		10		VSG Frequency(MHz):		5500	
Number of Bursts in Trial:			13		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	3	92.6	11	1765.4	1163.4	203047	
2	2	73.8	11	1127.2		426564	
3	1	51.8	11			650424	
4	2	70.9	11	1603.1		872337	
5	3	95.9	11	1116.1	1651.1	175564	
6	1	54.6	11			399735	
7	3	87	11	985	1545	621241	
8	2	76.6	11	1475.4		845725	
9	1	58.5	11			148608	
10	3	92.7	11	1870.3	1171.3	370846	
11	1	61.9	11			595965	
12	2	72	11	1401		817779	
13	2	71.1	11	1483.9		121000	

**Radar Type 5\_Trial 11**

Trial Number:		11		VSG Frequency(MHz):		5502.4	
Number of Bursts in Trial:			9		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	1	56.7	6			497985	
2	2	77.1	6	1406.9		820077	
3	1	59	6			1144207	
4	3	86.9	6	1452.1	1736.1	135001	
5	1	62.8	6			458152	
6	3	84.6	6	1082.4	1682.4	779607	
7	2	82.9	6	1021.1		1103250	
8	1	63.9	6			95517	
9	2	74.6	6	1017.4		418110	



**Radar Type 5\_Trial 12**

Trial Number:		12		VSG Frequency(MHz):		5507.2
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	85.1	18	1253.9	1479.9	368765
2	1	51.8	18			531770
3	2	81.2	18	1326.8		27767
4	1	54.2	18			189105
5	2	71.1	18	1156.9		349766
6	3	86.9	18	1845.1	1544.1	509100
7	1	62.6	18			7956
8	2	70.5	18	1708.5		168958
9	3	97.4	18	1407.6	1523.6	328985
10	1	57.6	18			491831
11	3	86.2	18	1463.8	1223.8	650183
12	3	93.5	18	913.5	1297.5	148972
13	3	95.3	18	1628.7	1149.7	309510
14	2	82.4	18	1821.6		470738
15	2	79	18	1596		631978
16	1	51.5	18			129602
17	2	68.5	18	1510.5		290167
18	1	52.1	18			452204

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 13**

<b>Trial Number:</b>		<b>13</b>		<b>VSG Frequency(MHz):</b>		<b>5505.2</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	85.5	13	1289.5	1182.5	786957	
2	3	86.2	13	1694.8	1499.8	140536	
3	3	90.6	13	1729.4	1682.4	347250	
4	1	61.7	13			556343	
5	2	81.8	13	1305.2		762767	
6	2	71.9	13	975.1		115418	
7	3	94.3	13	1061.7	1031.7	322215	
8	3	95	13	1199	907	529176	
9	1	52.2	13			738231	
10	1	64.7	13			89983	
11	1	51	13			297476	
12	3	90.2	13	1280.8	980.8	503460	
13	1	58.8	13			712290	
14	1	52.2	13			64373	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 14**

Trial Number:		14		VSG Frequency(MHz):		5507.6
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	76.6	19	1788.4		199563
2	2	68	19	1503		352112
3	3	88.8	19	1295.2	1178.2	503930
4	1	50	19			28613
5	3	89.8	19	1315.2	1718.2	180411
6	3	91.6	19	1443.4	1264.4	332647
7	3	83.5	19	1070.5	1907.5	484651
8	1	50	19			9764
9	1	64	19			162593
10	3	88.1	19	1164.9	1115.9	314251
11	3	95.4	19	1559.6	1715.6	465523
12	1	54.2	19			620657
13	3	85.8	19	1598.2	1754.2	143067
14	2	77.7	19	1334.3		296121
15	1	61.4	19			449337
16	3	94.7	19	1104.3	1685.3	599518
17	2	80	19	1576		124639
18	3	85.4	19	1360.6	1174.6	276456
19	3	94.3	19	1736.7	1346.7	428543

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 15**

<b>Trial Number:</b>		<b>15</b>		<b>VSG Frequency(MHz):</b>		<b>5503.6</b>	
<b>Number of Bursts in Trial:</b>			<b>12</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	82.4	9	1295.6		923549	
2	3	97.4	9	1695.6	1174.6	167590	
3	2	77.7	9	1626.3		409776	
4	3	84	9	1323	1065	650874	
5	2	73.4	9	1305.6		893302	
6	2	70	9	1873		138088	
7	1	59.3	9			380600	
8	1	60	9			622900	
9	2	76.2	9	1468.8		863489	
10	3	84.7	9	1698.3	1118.3	108158	
11	3	98	9	907	1485	349615	
12	2	69.4	9	1124.6		591916	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 16**

Trial Number:		16		VSG Frequency(MHz):		5506
Number of Bursts in Trial:		16		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57.1	15			625859
2	3	98.9	15	1662.1	1562.1	58668
3	3	84	15	1364	937	239835
4	2	66.9	15	1563.1		421044
5	2	77.3	15	1045.7		603045
6	3	93.7	15	1736.3	1418.3	36469
7	2	78.9	15	1698.1		217690
8	1	61.8	15			399498
9	2	77	15	1436		580247
10	2	68.6	15	1747.4		14212
11	3	85.5	15	1609.5	1442.5	194834
12	2	72.2	15	1251.8		376784
13	1	52.4	15			558534
14	1	66.3	15			740350
15	2	77.5	15	1025.5		173232
16	3	86.1	15	1705.9	1272.9	353562

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 17**

<b>Trial Number:</b>		<b>17</b>		<b>VSG Frequency(MHz):</b>		<b>5505.2</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	66.6	13			613143	
2	3	83.5	13	1347.5	1728.5	817452	
3	1	57.5	13			172616	
4	3	84.7	13	1193.3	1164.3	379303	
5	1	65.7	13			587468	
6	3	95.9	13	1094.1	1070.1	793142	
7	2	76.4	13	1666.6		146878	
8	1	54.8	13			354776	
9	3	98.9	13	1164.1	1890.1	559894	
10	3	84.1	13	1155.9	1490.9	766733	
11	1	65.3	13			121614	
12	2	80	13	966		328497	
13	2	80.4	13	1063.6		535626	
14	2	81.6	13	1376.4		742641	

**Radar Type 5\_Trial 18**

<b>Trial Number:</b>		<b>18</b>		<b>VSG Frequency(MHz):</b>		<b>5506.4</b>	
<b>Number of Bursts in Trial:</b>			<b>17</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	57.3	16			78985	
2	1	65.4	16			249930	
3	1	66	16			420478	
4	2	68.7	16	1224.3		590201	
5	3	88.2	16	1508.8	922.8	57770	
6	1	55.4	16			228721	
7	1	51.8	16			399563	
8	1	60.8	16			570677	
9	3	84.2	16	1410.8	1429.8	36799	
10	1	51	16			207708	
11	1	51.1	16			378849	
12	2	73.5	16	1767.5		547642	
13	2	67.3	16	1637.7		15861	
14	1	63.8	16			186727	
15	1	61.9	16			357464	
16	1	55.5	16			528536	
17	2	81.5	16	1097.5		698215	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 19**

Trial Number:		19		VSG Frequency(MHz):		5503.2
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57	8			282015
2	3	92.6	8	1172.4	1362.4	571527
3	2	73.2	8	1026.8		862775
4	3	93.5	8	1195.5	1626.5	1151333
5	3	92.7	8	1643.3	1594.3	245413
6	2	77.1	8	1344.9		535975
7	1	63.2	8			827530
8	1	53.6	8			1118562
9	1	61.2	8			210236
10	2	72.4	8	1265.6		500259

**Radar Type 5\_Trial 20**

Trial Number:		20		VSG Frequency(MHz):		5504.4
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	79.1	11	1528.9		607823
2	2	68	11	1097		830939
3	3	93.3	11	1194.7	1586.7	133703
4	2	78.3	11	1748.7		357014
5	3	98.9	11	1547.1	1901.1	578602
6	2	81.4	11	1342.6		803148
7	3	95.4	11	927.6	1736.6	106332
8	1	61.2	11			330202
9	2	70.1	11	1438.9		552614
10	1	56.1	11			777117
11	3	83.8	11	960.2	1507.2	78918
12	2	78.1	11	1848.9		302142
13	2	72	11	1096		525336



**Radar Type 5\_Trial 21**

Trial Number:		21		VSG Frequency(MHz):		5495.6
Number of Bursts in Trial:		13		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	84.3	11	1260.7	1217.7	747422
2	1	55.7	11			51603
3	3	99.3	11	1881.7	978.7	274322
4	1	56.5	11			498535
5	3	83.6	11	1662.4	1157.4	719442
6	3	92.3	11	1120.7	1396.7	23989
7	2	78.6	11	1540.4		247219
8	1	62.6	11			471050
9	3	93	11	1444	1596	692109
10	3	93.4	11	1846.6	1878.6	914389
11	1	52.5	11			220150
12	1	58.3	11			443625
13	3	87.5	11	1158.5	1892.5	664565

**Radar Type 5\_Trial 22**

Trial Number:		22		VSG Frequency(MHz):		5497.6
Number of Bursts in Trial:		9		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57.2	6			1286779
2	3	88.1	6	1675.9	1081.9	277551
3	1	64.7	6			601369
4	3	88.3	6	1072.7	1603.7	922524
5	1	52.8	6			1247270
6	1	65	6			238429
7	2	76.9	6	1784.1		560723
8	2	83.1	6	1521.9		883506
9	2	72.7	6	1894.3		1205655

**Radar Type 5\_Trial 23**

Trial Number:		23		VSG Frequency(MHz):		5498
Number of Bursts in Trial:		8		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	92.8	5	1087.2	1741.2	223099
2	3	91	5	1498	985	586014
3	2	72.7	5	1608.3		949446
4	1	52.2	5			1313681
5	3	92.1	5	1859.9	945.9	178359
6	2	71.9	5	1651.1		541575
7	1	52.5	5			905877
8	3	91.8	5	1493.2	933.2	1266631

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 24**

<b>Trial Number:</b>		<b>24</b>		<b>VSG Frequency(MHz):</b>		<b>5492</b>	
<b>Number of Bursts in Trial:</b>			<b>20</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	99.4	20	936.6	1059.6	53272	
2	3	97.7	20	1730.3	1724.3	197486	
3	2	78.9	20	1256.1		343109	
4	2	70.5	20	1557.5		488023	
5	3	89	20	1588	1306	35472	
6	3	87.7	20	1065.3	1060.3	180037	
7	3	93.4	20	1196.6	928.6	324626	
8	2	70.5	20	1369.5		470208	
9	2	79.7	20	1182.3		17714	
10	1	61.4	20			162822	
11	2	82.7	20	1315.3		307487	
12	1	59.7	20			453480	
13	3	86.2	20	1060.8	1849.8	595311	
14	2	74.7	20	1261.3		144664	
15	3	90.7	20	1542.3	1733.3	288611	
16	2	70	20	1189		434299	
17	1	61.3	20			580783	
18	2	74.2	20	985.8		127005	
19	1	57.2	20			272382	
20	3	96.6	20	1457.4	1185.4	415803	

**Radar Type 5\_Trial 25**

Trial Number:		25		VSG Frequency(MHz):		5497.2
Number of Bursts in Trial:			10		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	81.8	7	1636.2		1125033
2	1	53.3	7			218776
3	2	68.7	7	1427.3		508915
4	1	51.1	7			799943
5	3	89	7	1111	1426	1087997
6	1	61.5	7			182965
7	1	62.9	7			473603
8	1	58.3	7			764302
9	3	83.9	7	1782.1	1701.1	1051452
10	2	81.4	7	1307.6		146972

**Radar Type 5\_Trial 26**

Trial Number:		26		VSG Frequency(MHz):		5497.6
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	50.1	6			486680
2	1	56.6	6			809523
3	1	60.1	6			1132714
4	1	51.1	6			123763
5	3	94	6	1483	1296	445662
6	1	54.8	6			770020
7	2	79.4	6	1138.6		1091763
8	2	67	6	1652		83893
9	2	68.2	6	994.8		406603

**Radar Type 5\_Trial 27**

<b>Trial Number:</b>		<b>27</b>		<b>VSG Frequency(MHz):</b>		<b>5492.4</b>	
<b>Number of Bursts in Trial:</b>			<b>20</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	50.4	19			328148	
2	2	71.4	19	1262.6		471887	
3	2	67.8	19	1898.2		19791	
4	2	73.2	19	1101.8		164828	
5	1	53.6	19			310377	
6	3	94.3	19	1759.7	1126.7	452609	
7	2	73.4	19	1864.6		1976	
8	3	86.5	19	1728.5	1298.5	146346	
9	2	68.1	19	1629.9		291562	
10	1	50.2	19			437167	
11	1	52.6	19			582705	
12	3	90.9	19	1794.1	1755.1	128542	
13	2	67.8	19	1087.2		273980	
14	1	64.6	19			419269	
15	1	56	19			564253	
16	1	60	19			111356	
17	3	96.1	19	1081.9	1842.9	255090	
18	2	79	19	1739		400330	
19	2	77.7	19	1538.3		545725	
20	2	81.5	19	1279.5		93284	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 28**

Trial Number:		28		VSG Frequency(MHz):		5494
Number of Bursts in Trial:			16		Successful Detection: No	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	77.4	15	1452.6		297835
2	2	74.7	15	1512.3		478727
3	3	85	15	1017	1324	659587
4	3	86.7	15	1340.3	1755.3	94098
5	3	98.3	15	1358.7	978.7	275186
6	1	61.2	15			457719
7	2	76	15	1859		637709
8	3	99.6	15	1484.4	1266.4	71965
9	3	85	15	1392	1753	252763
10	2	80.7	15	1151.3		434307
11	3	85.8	15	954.2	1190.2	614725
12	3	90.6	15	954.4	1653.4	49657
13	3	94.4	15	1354.6	1670.6	230510
14	1	56	15			412734
15	1	56.8	15			594572
16	2	75.2	15	1270.8		27447

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 29**

<b>Trial Number:</b>		<b>29</b>		<b>VSG Frequency(MHz):</b>		<b>5496.4</b>	
<b>Number of Bursts in Trial:</b>			<b>11</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	64	9			304285	
2	2	80.2	9	1390.8		567815	
3	1	65.1	9			832279	
4	1	56.9	9			7467	
5	1	65.6	9			271677	
6	2	75	9	1381		535128	
7	3	94.9	9	1357.1	964.1	798432	
8	1	58	9			1064572	
9	2	81.2	9	1723.8		238648	
10	3	90.5	9	1363.5	1285.5	502084	
11	2	82.4	9	1400.6		766515	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 30**

<b>Trial Number:</b>		<b>30</b>		<b>VSG Frequency(MHz):</b>		<b>5495.2</b>	
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	92.1	12	1619.9	1656.9	869159	
2	1	54.1	12			174833	
3	3	91.2	12	1085.8	1256.8	397236	
4	3	98	12	1584	1867	619250	
5	2	75.9	12	1151.1		843845	
6	1	51.7	12			147199	
7	3	85.5	12	1517.5	1640.5	369401	
8	3	90.8	12	1207.2	1025.2	592633	
9	2	75.7	12	1663.3		816162	
10	3	86.4	12	1301.6	1591.6	119320	
11	2	81.1	12	1036.9		342935	
12	2	74.9	12	1726.1		565891	
13	3	92.5	12	988.5	1580.5	788224	



**Frequency Hopping Radar Test Waveforms**

**Radar Type 6**

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	( $\mu$ sec)	( $\mu$ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	No
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	No
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	No
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	No
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes

Report No.: TMWK2201000141KR

**< Channel Bandwidth 40MHz / 5510MHz >**

**Short Pulse Radar Test Waveforms**

**Radar Type 1**

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5510	12	1355	738	A	Yes
2	5510	15	1253.1	798	A	Yes
3	5510	14	1285.3	778	A	Yes
4	5510	23	326.2	3066	A	Yes
5	5510	2	1858.7	538	A	Yes
6	5510	6	1618.1	618	A	Yes
7	5510	11	1392.8	718	A	Yes
8	5510	20	1113.6	898	A	Yes
9	5510	1	1930.5	518	A	Yes
10	5510	10	1432.7	698	A	Yes
11	5510	13	1319.3	758	A	Yes
12	5510	7	1567.4	638	A	Yes
13	5510	3	1792.1	558	A	Yes
14	5510	5	1672.2	598	A	Yes
15	5510	22	1066.1	938	A	Yes
16	5510	-	934.6	1070	B	Yes
17	5510	-	709.2	1410	B	Yes
18	5510	-	348.3	2871	B	Yes
19	5510	-	380.1	2631	B	Yes
20	5510	-	513.6	1947	B	Yes
21	5510	-	631.7	1583	B	Yes
22	5510	10	1432.7	698	B	Yes
23	5510	-	464	2155	B	Yes
24	5510	-	327.1	3057	B	Yes
25	5510	-	1697.8	589	B	Yes
26	5510	-	659.2	1517	B	Yes
27	5510	-	419.6	2383	B	Yes
28	5510	-	568.8	1758	B	Yes
29	5510	-	512	1953	B	Yes
30	5510	-	1477.1	677	B	Yes

Report No.: TMWK2201000141KR

**Radar Type 2**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5510	24	1.8	179	Yes
2	5510	25	2.6	150	Yes
3	5510	26	3.2	173	Yes
4	5510	26	3.1	194	Yes
5	5510	28	3.9	207	Yes
6	5510	27	3.5	227	Yes
7	5510	24	1.6	226	Yes
8	5510	28	4.1	220	Yes
9	5510	28	4.2	195	Yes
10	5510	25	2.7	210	Yes
11	5510	23	1.4	211	Yes
12	5510	28	4.4	203	Yes
13	5510	26	3.1	190	Yes
14	5510	29	4.7	160	Yes
15	5510	25	2.2	193	Yes
16	5510	27	3.5	181	Yes
17	5510	26	3	161	Yes
18	5510	28	4	204	Yes
19	5510	24	1.8	175	Yes
20	5510	25	2.7	209	Yes
21	5510	25	2.6	200	No
22	5510	23	1.5	152	No
23	5510	23	1	177	No
24	5510	29	5	222	Yes
25	5510	24	1.6	151	Yes
26	5510	23	1.4	216	Yes
27	5510	29	4.8	217	Yes
28	5510	27	3.6	198	Yes
29	5510	24	2	192	No
30	5510	26	2.8	196	Yes

Report No.: TMWK2201000141KR

**Radar Type 3**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5510	16	6.8	207	No
2	5510	17	7.6	294	No
3	5510	17	8.2	387	Yes
4	5510	17	8.1	493	Yes
5	5510	18	8.9	465	Yes
6	5510	17	8.5	398	Yes
7	5510	16	6.6	308	Yes
8	5510	18	9.1	255	Yes
9	5510	18	9.2	353	Yes
10	5510	17	7.7	337	Yes
11	5510	16	6.4	322	Yes
12	5510	18	9.4	396	Yes
13	5510	17	8.1	264	Yes
14	5510	18	9.7	412	Yes
15	5510	16	7.2	446	Yes
16	5510	17	8.5	300	Yes
17	5510	17	8	474	Yes
18	5510	18	9	499	Yes
19	5510	16	6.8	497	Yes
20	5510	17	7.7	256	Yes
21	5510	17	7.6	476	Yes
22	5510	16	6.5	208	Yes
23	5510	16	6	381	Yes
24	5510	18	10	334	Yes
25	5510	16	6.6	217	Yes
26	5510	16	6.4	344	Yes
27	5510	18	9.8	479	Yes
28	5510	17	8.6	341	Yes
29	5510	16	7	271	Yes
30	5510	17	7.8	206	No

Report No.: TMWK2201000141KR

**Radar Type 4**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5510	13	12.8	207	Yes
2	5510	13	14.5	294	Yes
3	5510	14	16	387	Yes
4	5510	14	15.8	493	Yes
5	5510	15	17.5	465	Yes
6	5510	15	16.6	398	Yes
7	5510	12	12.4	308	Yes
8	5510	15	18	255	Yes
9	5510	15	18.1	353	No
10	5510	14	14.8	337	No
11	5510	12	11.9	322	Yes
12	5510	16	18.6	396	Yes
13	5510	14	15.8	264	Yes
14	5510	16	19.2	412	No
15	5510	13	13.8	446	Yes
16	5510	15	16.7	300	No
17	5510	14	15.5	474	Yes
18	5510	15	17.8	499	No
19	5510	13	12.8	497	No
20	5510	14	14.8	256	Yes
21	5510	13	14.5	476	Yes
22	5510	12	12.1	208	No
23	5510	12	11	381	Yes
24	5510	16	19.9	334	Yes
25	5510	12	12.4	217	Yes
26	5510	12	12	344	No
27	5510	16	19.5	479	Yes
28	5510	15	16.8	341	No
29	5510	13	13.3	271	Yes
30	5510	14	15.1	206	Yes

**Long Pulse Radar Test Waveforms**

**Radar Type 5\_Trial 1**

Trial Number:		1		VSG Frequency(MHz):		5510
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	60.3	8			538543
2	2	69.5	8	1830.5		828299
3	2	77.7	8	1419.3		1118893
4	2	76.4	8	1591.6		211834
5	3	85.8	8	1869.2	1709.2	501332
6	2	81	8	1043		792758
7	1	58	8			1083979
8	3	88.9	8	939.1	1611.1	176037
9	3	89.1	8	1684.9	1707.9	465820
10	2	71.1	8	1358.9		756612

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 2**

Trial Number:		2		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	55.2	11			806494
2	3	91.8	11	1489.2	1099.2	107844
3	2	76.7	11	1409.3		330945
4	3	95.3	11	1016.7	1753.7	553296
5	1	65.4	11			778762
6	2	81.7	11	1542.3		80412
7	2	75.2	11	1769.8		303483
8	3	87.5	11	1404.5	1049.5	526172
9	1	60.3	11			751174
10	2	71.4	11	1741.6		52925
11	2	69.8	11	1090.2		276131
12	1	56.1	11			500009
13	1	50.1	11			723735

**Radar Type 5\_Trial 3**

<b>Trial Number:</b>		<b>3</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>	
<b>Number of Bursts in Trial:</b>			<b>15</b>		<b>Successful Detection:</b>		<b>Yes</b>
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	3	99.5	13	1850.5	1039.5	22027	
2	1	57.9	13			215887	
3	1	55.7	13			409202	
4	3	96.8	13	1656.2	1075.2	600997	
5	2	82.3	13	1813.7		794417	
6	1	63	13			191860	
7	2	72.9	13	1744.1		384799	
8	2	73.6	13	1095.4		578443	
9	3	98.7	13	1215.3	1744.3	769416	
10	1	54.7	13			168149	
11	1	56.1	13			361951	
12	3	98.9	13	1869.1	1819.1	552729	
13	1	52.7	13			749349	
14	2	68.1	13	1745.9		143814	
15	2	77.8	13	1338.2		337066	



**Radar Type 5\_Trial 4**

<b>Trial Number:</b>		<b>4</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	57.2	13			569325	
2	2	75.6	13	1575.4		775162	
3	2	81	13	1531		128658	
4	1	52.5	13			336636	
5	3	89.9	13	1277.1	1257.1	542392	
6	3	86.9	13	1187.1	1805.1	749101	
7	1	52	13			103445	
8	1	62	13			310922	
9	3	90.2	13	1883.8	1803.8	516399	
10	2	69.2	13	1860.8		724362	
11	2	79	13	1173		77733	
12	3	100	13	1251	1114	284388	
13	1	55.8	13			492830	
14	2	80.6	13	951.4		699190	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 5**

<b>Trial Number:</b>		<b>5</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>
<b>Number of Bursts in Trial:</b>			<b>17</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	3	85.7	16	1314.3	1193.3	42889
2	1	61.6	16			213927
3	1	51.1	16			384581
4	1	54.1	16			555549
5	2	69.4	16	1043.6		21967
6	2	78.2	16	1725.8		192453
7	2	68.4	16	1914.6		362610
8	2	80	16	1229		533883
9	3	84.3	16	979.7	1616.7	952
10	2	75.7	16	1470.3		171434
11	2	75.9	16	981.1		341872
12	1	66.2	16			513554
13	3	97.5	16	1455.5	914.5	681380
14	1	56.6	16			150837
15	3	87.1	16	1445.9	1500.9	320207
16	2	70.5	16	1115.5		491765
17	3	96.4	16	1473.6	1669.6	660569

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 6**

<b>Trial Number:</b>		<b>6</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>	
<b>Number of Bursts in Trial:</b>			<b>16</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	62.7	14			137777	
2	1	63.6	14			319266	
3	3	97.4	14	1565.6	1777.6	498425	
4	2	80.2	14	1083.8		681125	
5	3	84.7	14	1073.3	1835.3	114946	
6	3	90.4	14	1061.6	1319.6	296092	
7	2	67.2	14	1074.8		477719	
8	1	66.3	14			660122	
9	1	63.2	14			93092	
10	3	97.4	14	1100.6	1374.6	273677	
11	3	96	14	931	1801	454414	
12	1	65.6	14			637544	
13	2	77.5	14	970.5		70640	
14	1	53.2	14			252200	
15	1	63	14			434077	
16	2	67	14	1854		613796	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 7**

<b>Trial Number:</b>		<b>7</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>	
<b>Number of Bursts in Trial:</b>			<b>10</b>		<b>Successful Detection:</b>		<b>No</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	93.1	7	1042.9	1307.9	77308	
2	1	62.9	7			368047	
3	3	93.2	7	1510.8	1762.8	657047	
4	1	55	7			949670	
5	3	94.7	7	1539.3	1405.3	41570	
6	2	83.3	7	1870.7		331911	
7	3	89.9	7	1215.1	1290.1	621584	
8	1	59.4	7			913757	
9	2	77.2	7	1589.8		5860	
10	3	91.4	7	1671.6	1355.6	295755	

**Radar Type 5\_Trial 8**

<b>Trial Number:</b>		<b>8</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>	
<b>Number of Bursts in Trial:</b>			<b>18</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	55.3	17			325819	
2	2	76.7	17	1344.3		486546	
3	2	73.7	17	1159.3		646985	
4	3	89.5	17	1437.5	1600.5	144101	
5	3	95.5	17	1021.5	1000.5	304844	
6	2	75	17	1354		466269	
7	2	69.7	17	1678.3		627013	
8	2	72.8	17	1149.2		124567	
9	1	66.3	17			286174	
10	3	86.4	17	1349.6	1285.6	445610	
11	1	58.4	17			608571	
12	1	50.3	17			104936	
13	1	51	17			266211	
14	2	71.2	17	1060.8		426863	
15	3	83.9	17	1809.1	1265.1	585966	
16	3	87.9	17	1795.1	1473.1	84661	
17	1	56.2	17			246288	
18	2	80.9	17	1444.1		406728	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 9**

<b>Trial Number:</b>		<b>9</b>		<b>VSG Frequency(MHz):</b>		<b>5510</b>	
<b>Number of Bursts in Trial:</b>			<b>18</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	72.5	17	1638.5		567587	
2	1	64.4	17			65243	
3	1	56.7	17			226653	
4	2	72.4	17	1211.6		386854	
5	1	62.8	17			549277	
6	3	99.2	17	1255.8	979.8	45204	
7	1	54.4	17			206739	
8	3	93.7	17	1153.3	1131.3	366489	
9	3	93.9	17	1786.1	1903.1	526010	
10	1	65.4	17			25477	
11	1	51.7	17			186792	
12	2	79.4	17	1146.6		347747	
13	2	73.7	17	1183.3		508768	
14	3	88	17	1033	1507	5585	
15	1	53	17			166965	
16	3	93.4	17	1754.6	909.6	326849	
17	3	85.1	17	1255.9	1436.9	487576	
18	3	90.5	17	1820.5	1148.5	647431	

**Radar Type 5\_Trial 10**

Trial Number:		10		VSG Frequency(MHz):		5510
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	92.6	11	1765.4	1163.4	203047
2	2	73.8	11	1127.2		426564
3	1	51.8	11			650424
4	2	70.9	11	1603.1		872337
5	3	95.9	11	1116.1	1651.1	175564
6	1	54.6	11			399735
7	3	87	11	985	1545	621241
8	2	76.6	11	1475.4		845725
9	1	58.5	11			148608
10	3	92.7	11	1870.3	1171.3	370846
11	1	61.9	11			595965
12	2	72	11	1401		817779
13	2	71.1	11	1483.9		121000

**Radar Type 5\_Trial 11**

Trial Number:		11		VSG Frequency(MHz):		5512.4
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	56.7	6			497985
2	2	77.1	6	1406.9		820077
3	1	59	6			1144207
4	3	86.9	6	1452.1	1736.1	135001
5	1	62.8	6			458152
6	3	84.6	6	1082.4	1682.4	779607
7	2	82.9	6	1021.1		1103250
8	1	63.9	6			95517
9	2	74.6	6	1017.4		418110

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 12**

Trial Number:		12		VSG Frequency(MHz):		5517.2
Number of Bursts in Trial:			18		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	85.1	18	1253.9	1479.9	368765
2	1	51.8	18			531770
3	2	81.2	18	1326.8		27767
4	1	54.2	18			189105
5	2	71.1	18	1156.9		349766
6	3	86.9	18	1845.1	1544.1	509100
7	1	62.6	18			7956
8	2	70.5	18	1708.5		168958
9	3	97.4	18	1407.6	1523.6	328985
10	1	57.6	18			491831
11	3	86.2	18	1463.8	1223.8	650183
12	3	93.5	18	913.5	1297.5	148972
13	3	95.3	18	1628.7	1149.7	309510
14	2	82.4	18	1821.6		470738
15	2	79	18	1596		631978
16	1	51.5	18			129602
17	2	68.5	18	1510.5		290167
18	1	52.1	18			452204



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 13**

<b>Trial Number:</b>		<b>13</b>		<b>VSG Frequency(MHz):</b>		<b>5515.2</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	85.5	13	1289.5	1182.5	786957	
2	3	86.2	13	1694.8	1499.8	140536	
3	3	90.6	13	1729.4	1682.4	347250	
4	1	61.7	13			556343	
5	2	81.8	13	1305.2		762767	
6	2	71.9	13	975.1		115418	
7	3	94.3	13	1061.7	1031.7	322215	
8	3	95	13	1199	907	529176	
9	1	52.2	13			738231	
10	1	64.7	13			89983	
11	1	51	13			297476	
12	3	90.2	13	1280.8	980.8	503460	
13	1	58.8	13			712290	
14	1	52.2	13			64373	

**Radar Type 5\_Trial 14**

Trial Number:		14		VSG Frequency(MHz):		5517.6
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	76.6	19	1788.4		199563
2	2	68	19	1503		352112
3	3	88.8	19	1295.2	1178.2	503930
4	1	50	19			28613
5	3	89.8	19	1315.2	1718.2	180411
6	3	91.6	19	1443.4	1264.4	332647
7	3	83.5	19	1070.5	1907.5	484651
8	1	50	19			9764
9	1	64	19			162593
10	3	88.1	19	1164.9	1115.9	314251
11	3	95.4	19	1559.6	1715.6	465523
12	1	54.2	19			620657
13	3	85.8	19	1598.2	1754.2	143067
14	2	77.7	19	1334.3		296121
15	1	61.4	19			449337
16	3	94.7	19	1104.3	1685.3	599518
17	2	80	19	1576		124639
18	3	85.4	19	1360.6	1174.6	276456
19	3	94.3	19	1736.7	1346.7	428543

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 15**

Trial Number:		15		VSG Frequency(MHz):		5513.6
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	82.4	9	1295.6		923549
2	3	97.4	9	1695.6	1174.6	167590
3	2	77.7	9	1626.3		409776
4	3	84	9	1323	1065	650874
5	2	73.4	9	1305.6		893302
6	2	70	9	1873		138088
7	1	59.3	9			380600
8	1	60	9			622900
9	2	76.2	9	1468.8		863489
10	3	84.7	9	1698.3	1118.3	108158
11	3	98	9	907	1485	349615
12	2	69.4	9	1124.6		591916

**Radar Type 5\_Trial 16**

Trial Number:		16		VSG Frequency(MHz):		5516
Number of Bursts in Trial:		16		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57.1	15			625859
2	3	98.9	15	1662.1	1562.1	58668
3	3	84	15	1364	937	239835
4	2	66.9	15	1563.1		421044
5	2	77.3	15	1045.7		603045
6	3	93.7	15	1736.3	1418.3	36469
7	2	78.9	15	1698.1		217690
8	1	61.8	15			399498
9	2	77	15	1436		580247
10	2	68.6	15	1747.4		14212
11	3	85.5	15	1609.5	1442.5	194834
12	2	72.2	15	1251.8		376784
13	1	52.4	15			558534
14	1	66.3	15			740350
15	2	77.5	15	1025.5		173232
16	3	86.1	15	1705.9	1272.9	353562

**Radar Type 5\_Trial 17**

<b>Trial Number:</b>		<b>17</b>		<b>VSG Frequency(MHz):</b>		<b>5515.2</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	66.6	13			613143	
2	3	83.5	13	1347.5	1728.5	817452	
3	1	57.5	13			172616	
4	3	84.7	13	1193.3	1164.3	379303	
5	1	65.7	13			587468	
6	3	95.9	13	1094.1	1070.1	793142	
7	2	76.4	13	1666.6		146878	
8	1	54.8	13			354776	
9	3	98.9	13	1164.1	1890.1	559894	
10	3	84.1	13	1155.9	1490.9	766733	
11	1	65.3	13			121614	
12	2	80	13	966		328497	
13	2	80.4	13	1063.6		535626	
14	2	81.6	13	1376.4		742641	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 18**

<b>Trial Number:</b>		<b>18</b>		<b>VSG Frequency(MHz):</b>		<b>5516.4</b>	
<b>Number of Bursts in Trial:</b>			<b>17</b>		<b>Successful Detection:</b>		<b>Yes</b>
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	1	57.3	16			78985	
2	1	65.4	16			249930	
3	1	66	16			420478	
4	2	68.7	16	1224.3		590201	
5	3	88.2	16	1508.8	922.8	57770	
6	1	55.4	16			228721	
7	1	51.8	16			399563	
8	1	60.8	16			570677	
9	3	84.2	16	1410.8	1429.8	36799	
10	1	51	16			207708	
11	1	51.1	16			378849	
12	2	73.5	16	1767.5		547642	
13	2	67.3	16	1637.7		15861	
14	1	63.8	16			186727	
15	1	61.9	16			357464	
16	1	55.5	16			528536	
17	2	81.5	16	1097.5		698215	

**Radar Type 5\_Trial 19**

Trial Number:		19		VSG Frequency(MHz):		5513.2
Number of Bursts in Trial:		10		Successful Detection:		No
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57	8			282015
2	3	92.6	8	1172.4	1362.4	571527
3	2	73.2	8	1026.8		862775
4	3	93.5	8	1195.5	1626.5	1151333
5	3	92.7	8	1643.3	1594.3	245413
6	2	77.1	8	1344.9		535975
7	1	63.2	8			827530
8	1	53.6	8			1118562
9	1	61.2	8			210236
10	2	72.4	8	1265.6		500259

**Radar Type 5\_Trial 20**

Trial Number:		20		VSG Frequency(MHz):		5514.4
Number of Bursts in Trial:		13		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	79.1	11	1528.9		607823
2	2	68	11	1097		830939
3	3	93.3	11	1194.7	1586.7	133703
4	2	78.3	11	1748.7		357014
5	3	98.9	11	1547.1	1901.1	578602
6	2	81.4	11	1342.6		803148
7	3	95.4	11	927.6	1736.6	106332
8	1	61.2	11			330202
9	2	70.1	11	1438.9		552614
10	1	56.1	11			777117
11	3	83.8	11	960.2	1507.2	78918
12	2	78.1	11	1848.9		302142
13	2	72	11	1096		525336

**Radar Type 5\_Trial 21**

Trial Number:		21		VSG Frequency(MHz):		5505.6
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	84.3	11	1260.7	1217.7	747422
2	1	55.7	11			51603
3	3	99.3	11	1881.7	978.7	274322
4	1	56.5	11			498535
5	3	83.6	11	1662.4	1157.4	719442
6	3	92.3	11	1120.7	1396.7	23989
7	2	78.6	11	1540.4		247219
8	1	62.6	11			471050
9	3	93	11	1444	1596	692109
10	3	93.4	11	1846.6	1878.6	914389
11	1	52.5	11			220150
12	1	58.3	11			443625
13	3	87.5	11	1158.5	1892.5	664565

**Radar Type 5\_Trial 22**

Trial Number:		22		VSG Frequency(MHz):		5507.6
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	57.2	6			1286779
2	3	88.1	6	1675.9	1081.9	277551
3	1	64.7	6			601369
4	3	88.3	6	1072.7	1603.7	922524
5	1	52.8	6			1247270
6	1	65	6			238429
7	2	76.9	6	1784.1		560723
8	2	83.1	6	1521.9		883506
9	2	72.7	6	1894.3		1205655



**Radar Type 5\_Trial 23**

Trial Number:		23		VSG Frequency(MHz):		5508
Number of Bursts in Trial:			8		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	92.8	5	1087.2	1741.2	223099
2	3	91	5	1498	985	586014
3	2	72.7	5	1608.3		949446
4	1	52.2	5			1313681
5	3	92.1	5	1859.9	945.9	178359
6	2	71.9	5	1651.1		541575
7	1	52.5	5			905877
8	3	91.8	5	1493.2	933.2	1266631

**Radar Type 5\_Trial 24**

<b>Trial Number:</b>		<b>24</b>		<b>VSG Frequency(MHz):</b>		<b>5502</b>	
<b>Number of Bursts in Trial:</b>			<b>20</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	99.4	20	936.6	1059.6	53272	
2	3	97.7	20	1730.3	1724.3	197486	
3	2	78.9	20	1256.1		343109	
4	2	70.5	20	1557.5		488023	
5	3	89	20	1588	1306	35472	
6	3	87.7	20	1065.3	1060.3	180037	
7	3	93.4	20	1196.6	928.6	324626	
8	2	70.5	20	1369.5		470208	
9	2	79.7	20	1182.3		17714	
10	1	61.4	20			162822	
11	2	82.7	20	1315.3		307487	
12	1	59.7	20			453480	
13	3	86.2	20	1060.8	1849.8	595311	
14	2	74.7	20	1261.3		144664	
15	3	90.7	20	1542.3	1733.3	288611	
16	2	70	20	1189		434299	
17	1	61.3	20			580783	
18	2	74.2	20	985.8		127005	
19	1	57.2	20			272382	
20	3	96.6	20	1457.4	1185.4	415803	

**Radar Type 5\_Trial 25**

Trial Number:		25		VSG Frequency(MHz):		5507.2
Number of Bursts in Trial:		10		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	81.8	7	1636.2		1125033
2	1	53.3	7			218776
3	2	68.7	7	1427.3		508915
4	1	51.1	7			799943
5	3	89	7	1111	1426	1087997
6	1	61.5	7			182965
7	1	62.9	7			473603
8	1	58.3	7			764302
9	3	83.9	7	1782.1	1701.1	1051452
10	2	81.4	7	1307.6		146972

**Radar Type 5\_Trial 26**

Trial Number:		26		VSG Frequency(MHz):		5507.6
Number of Bursts in Trial:		9		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	50.1	6			486680
2	1	56.6	6			809523
3	1	60.1	6			1132714
4	1	51.1	6			123763
5	3	94	6	1483	1296	445662
6	1	54.8	6			770020
7	2	79.4	6	1138.6		1091763
8	2	67	6	1652		83893
9	2	68.2	6	994.8		406603

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 27**

<b>Trial Number:</b>		<b>27</b>		<b>VSG Frequency(MHz):</b>		<b>5502.4</b>	
<b>Number of Bursts in Trial:</b>			<b>20</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	50.4	19			328148	
2	2	71.4	19	1262.6		471887	
3	2	67.8	19	1898.2		19791	
4	2	73.2	19	1101.8		164828	
5	1	53.6	19			310377	
6	3	94.3	19	1759.7	1126.7	452609	
7	2	73.4	19	1864.6		1976	
8	3	86.5	19	1728.5	1298.5	146346	
9	2	68.1	19	1629.9		291562	
10	1	50.2	19			437167	
11	1	52.6	19			582705	
12	3	90.9	19	1794.1	1755.1	128542	
13	2	67.8	19	1087.2		273980	
14	1	64.6	19			419269	
15	1	56	19			564253	
16	1	60	19			111356	
17	3	96.1	19	1081.9	1842.9	255090	
18	2	79	19	1739		400330	
19	2	77.7	19	1538.3		545725	
20	2	81.5	19	1279.5		93284	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 28**

<b>Trial Number:</b>		<b>28</b>		<b>VSG Frequency(MHz):</b>		<b>5504</b>	
<b>Number of Bursts in Trial:</b>			<b>16</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	77.4	15	1452.6		297835	
2	2	74.7	15	1512.3		478727	
3	3	85	15	1017	1324	659587	
4	3	86.7	15	1340.3	1755.3	94098	
5	3	98.3	15	1358.7	978.7	275186	
6	1	61.2	15			457719	
7	2	76	15	1859		637709	
8	3	99.6	15	1484.4	1266.4	71965	
9	3	85	15	1392	1753	252763	
10	2	80.7	15	1151.3		434307	
11	3	85.8	15	954.2	1190.2	614725	
12	3	90.6	15	954.4	1653.4	49657	
13	3	94.4	15	1354.6	1670.6	230510	
14	1	56	15			412734	
15	1	56.8	15			594572	
16	2	75.2	15	1270.8		27447	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 29**

<b>Trial Number:</b>		<b>29</b>		<b>VSG Frequency(MHz):</b>		<b>5506.4</b>	
<b>Number of Bursts in Trial:</b>			<b>11</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	64	9			304285	
2	2	80.2	9	1390.8		567815	
3	1	65.1	9			832279	
4	1	56.9	9			7467	
5	1	65.6	9			271677	
6	2	75	9	1381		535128	
7	3	94.9	9	1357.1	964.1	798432	
8	1	58	9			1064572	
9	2	81.2	9	1723.8		238648	
10	3	90.5	9	1363.5	1285.5	502084	
11	2	82.4	9	1400.6		766515	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 30**

<b>Trial Number:</b>		<b>30</b>		<b>VSG Frequency(MHz):</b>		<b>5505.2</b>	
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	92.1	12	1619.9	1656.9	869159	
2	1	54.1	12			174833	
3	3	91.2	12	1085.8	1256.8	397236	
4	3	98	12	1584	1867	619250	
5	2	75.9	12	1151.1		843845	
6	1	51.7	12			147199	
7	3	85.5	12	1517.5	1640.5	369401	
8	3	90.8	12	1207.2	1025.2	592633	
9	2	75.7	12	1663.3		816162	
10	3	86.4	12	1301.6	1591.6	119320	
11	2	81.1	12	1036.9		342935	
12	2	74.9	12	1726.1		565891	
13	3	92.5	12	988.5	1580.5	788224	

Report No.: TMWK2201000141KR

**Frequency Hopping Radar Test Waveforms**

**Radar Type 6**

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	( $\mu$ sec)	( $\mu$ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes



Report No.: TMWK2201000141KR

**< Channel Bandwidth 80MHz / 5530 MHz >**
**Short Pulse Radar Test Waveforms**
**Radar Type 1**

Trial	VSG Frequency (MHz)	Pulse Repetition Frequency	Pulse Repetition Frequency	PRI	Test A/B	Successful Detection
		Number (1 to 23)	(Pulses Per Second)	(msec)	A/B	(Yes/No)
1	5530	18	1165.5	858	A	Yes
2	5530	5	1672.2	598	A	Yes
3	5530	10	1432.7	698	A	No
4	5530	12	1355	738	A	Yes
5	5530	4	1730.1	578	A	Yes
6	5530	3	1792.1	558	A	Yes
7	5530	19	1139	878	A	Yes
8	5530	13	1319.3	758	A	Yes
9	5530	17	1193.3	838	A	Yes
10	5530	2	1858.7	538	A	Yes
11	5530	20	1113.6	898	A	Yes
12	5530	11	1392.8	718	A	Yes
13	5530	9	1474.9	678	A	Yes
14	5530	1	1930.5	518	A	Yes
15	5530	7	1567.4	638	A	Yes
16	5530	-	813	1230	B	Yes
17	5530	-	585.1	1709	B	Yes
18	5530	-	684.5	1461	B	Yes
19	5530	-	795.5	1257	B	Yes
20	5530	-	1029.9	971	B	Yes
21	5530	-	784.9	1274	B	Yes
22	5530	-	489.7	2042	B	Yes
23	5530	-	401.8	2489	B	Yes
24	5530	-	428.4	2334	B	Yes
25	5530	-	686.3	1457	B	Yes
26	5530	-	1538.5	650	B	Yes
27	5530	-	377.4	2650	B	Yes
28	5530	-	1201.9	832	B	No
29	5530	-	456	2193	B	Yes
30	5530	-	555.9	1799	B	Yes

Report No.: TMWK2201000141KR

**Radar Type 2**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (23-29)	Pulse Width (1-5)	PRI (150-230)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5530	24	1.8	179	Yes
2	5530	25	2.6	150	Yes
3	5530	26	3.2	173	Yes
4	5530	26	3.1	194	Yes
5	5530	28	3.9	207	Yes
6	5530	27	3.5	227	Yes
7	5530	24	1.6	226	Yes
8	5530	28	4.1	220	Yes
9	5530	28	4.2	195	Yes
10	5530	25	2.7	210	Yes
11	5530	23	1.4	211	No
12	5530	28	4.4	203	Yes
13	5530	26	3.1	190	Yes
14	5530	29	4.7	160	No
15	5530	25	2.2	193	Yes
16	5530	27	3.5	181	Yes
17	5530	26	3	161	Yes
18	5530	28	4	204	No
19	5530	24	1.8	175	Yes
20	5530	25	2.7	209	Yes
21	5530	25	2.6	200	Yes
22	5530	23	1.5	152	Yes
23	5530	23	1	177	Yes
24	5530	29	5	222	No
25	5530	24	1.6	151	Yes
26	5530	23	1.4	216	Yes
27	5530	29	4.8	217	No
28	5530	27	3.6	198	No
29	5530	24	2	192	Yes
30	5530	26	2.8	196	Yes

Report No.: TMWK2201000141KR

**Radar Type 3**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (16-18)	Pulse Width (6-10)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5530	16	6.8	207	Yes
2	5530	17	7.6	294	Yes
3	5530	17	8.2	387	Yes
4	5530	17	8.1	493	Yes
5	5530	18	8.9	465	No
6	5530	17	8.5	398	Yes
7	5530	16	6.6	308	No
8	5530	18	9.1	255	Yes
9	5530	18	9.2	353	Yes
10	5530	17	7.7	337	Yes
11	5530	16	6.4	322	Yes
12	5530	18	9.4	396	Yes
13	5530	17	8.1	264	Yes
14	5530	18	9.7	412	Yes
15	5530	16	7.2	446	Yes
16	5530	17	8.5	300	Yes
17	5530	17	8	474	Yes
18	5530	18	9	499	Yes
19	5530	16	6.8	497	Yes
20	5530	17	7.7	256	Yes
21	5530	17	7.6	476	Yes
22	5530	16	6.5	208	Yes
23	5530	16	6	381	Yes
24	5530	18	10	334	Yes
25	5530	16	6.6	217	Yes
26	5530	16	6.4	344	No
27	5530	18	9.8	479	No
28	5530	17	8.6	341	Yes
29	5530	16	7	271	No
30	5530	17	7.8	206	Yes

Report No.: TMWK2201000141KR

**Radar Type 4**

Trial	VSG Frequency (MHz)	Number Pulses per Burst (12-16)	Pulse Width (11-20)	PRI (200-500)	Successful Detection
			( $\mu$ s)	( $\mu$ s)	(Yes/No)
1	5530	13	12.8	207	No
2	5530	13	14.5	294	No
3	5530	14	16	387	Yes
4	5530	14	15.8	493	Yes
5	5530	15	17.5	465	Yes
6	5530	15	16.6	398	Yes
7	5530	12	12.4	308	Yes
8	5530	15	18	255	Yes
9	5530	15	18.1	353	Yes
10	5530	14	14.8	337	No
11	5530	12	11.9	322	Yes
12	5530	16	18.6	396	Yes
13	5530	14	15.8	264	Yes
14	5530	16	19.2	412	Yes
15	5530	13	13.8	446	No
16	5530	15	16.7	300	Yes
17	5530	14	15.5	474	Yes
18	5530	15	17.8	499	Yes
19	5530	13	12.8	497	No
20	5530	14	14.8	256	Yes
21	5530	13	14.5	476	Yes
22	5530	12	12.1	208	Yes
23	5530	12	11	381	Yes
24	5530	16	19.9	334	Yes
25	5530	12	12.4	217	Yes
26	5530	12	12	344	Yes
27	5530	16	19.5	479	Yes
28	5530	15	16.8	341	Yes
29	5530	13	13.3	271	Yes
30	5530	14	15.1	206	Yes

**Long Pulse Radar Test Waveforms**

**Radar Type 5\_Trial 1**

Trial Number:		1		VSG Frequency(MHz):		5530
Number of Bursts in Trial:		9		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	56.8	7			505791
2	2	69.3	7	1325.7		827892
3	2	80.5	7	1003.5		1150939
4	1	66.1	7			142835
5	3	95.5	7	1398.5	1176.5	464917
6	2	67.2	7	1488.8		787881
7	3	88.7	7	1674.3	1078.3	1109444
8	3	96.5	7	1157.5	1705.5	102804
9	3	95.7	7	1814.3	1790.3	424833

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 2**

<b>Trial Number:</b>		<b>2</b>		<b>VSG Frequency(MHz):</b>		<b>5530</b>	
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	57.8	11			518559	
2	2	70.7	11	1260.3		740770	
3	1	62.7	11			43804	
4	2	81.1	11	1853.9		266682	
5	3	91.6	11	1182.4	1597.4	489248	
6	2	77.3	11	1722.7		712574	
7	2	82.7	11	1825.3		16221	
8	2	72.7	11	1514.3		239312	
9	3	95.2	11	1113.8	1399.8	462008	
10	1	58.4	11			687000	
11	2	75.6	11	1253.4		909259	
12	2	72	11	1240		211897	
13	1	57.6	11			435781	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 3**

Trial Number:		3		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	76.6	14	1083.4		570628
2	2	71	14	1356		763437
3	3	84.9	14	1333.1	1609.1	159379
4	2	67.9	14	975.1		353429
5	2	79.7	14	1051.3		546819
6	1	50.5	14			741113
7	1	53.6	14			136172
8	1	59.6	14			329765
9	1	66.5	14			523306
10	3	92.7	14	1566.3	1761.3	713583
11	3	97.9	14	1227.1	952.1	111937
12	2	75.9	14	1762.1		305154
13	1	54.4	14			499561
14	3	87.8	14	1494.2	1300.2	691134
15	3	92.7	14	1263.3	1112.3	88160

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 4**

Trial Number:		4		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	85.8	10	1669.2	1410.2	351791
2	2	79.1	10	1699.9		594029
3	1	61.1	10			837158
4	1	54.1	10			80802
5	3	86.9	10	1127.1	923.1	322391
6	2	82.5	10	1687.5		563973
7	1	54.6	10			807675
8	3	88.1	10	1002.9	1691.9	50815
9	3	87.2	10	1736.8	1625.8	292220
10	2	71.4	10	1335.6		534558
11	2	69.2	10	1510.8		775987
12	1	66.4	10			21153



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 5**

Trial Number:		5		VSG Frequency(MHz):		5530			
Number of Bursts in Trial:			19			Successful Detection:		Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval			
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)			
1	2	77.4	19	1011.6		165995			
2	2	71	19	1222		318441			
3	1	56.5	19			471624			
4	1	57.7	19			624176			
5	3	93.4	19	1545.6	1810.6	146546			
6	2	75	19	953		299659			
7	3	99.3	19	1336.7	1215.7	451332			
8	3	92.8	19	1885.2	1205.2	602340			
9	1	59.5	19			128500			
10	2	81.3	19	1747.7		280671			
11	2	77.6	19	1643.4		432946			
12	3	87.6	19	1699.4	999.4	584139			
13	3	88.2	19	1783.8	1110.8	109116			
14	3	92.8	19	1199.2	1610.2	261386			
15	3	86	19	1886	986	413437			
16	3	91.4	19	1775.6	1318.6	565228			
17	2	78.1	19	1597.9		90631			
18	1	64.8	19			243625			
19	1	55.2	19			396629			

**Radar Type 5\_Trial 6**

Trial Number:		6		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			12		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	87.2	10	1563.8	1839.8	867122
2	3	89.6	10	1341.4	1512.4	113816
3	3	90	10	947	1541	355467
4	3	86.9	10	1057.1	1487.1	596574
5	1	66	10			840937
6	3	97.4	10	1336.6	1454.6	84105
7	2	71.5	10	1171.5		325946
8	3	85.2	10	996.8	948.8	567402
9	2	75.1	10	1758.9		809271
10	2	72	10	1085		54426
11	2	82.9	10	1306.1		296377
12	3	97.7	10	1308.3	1844.3	537126

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 7**

Trial Number:		7		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			18		Successful Detection: No	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	96.6	17	1302.4	999.4	518206
2	1	60.4	17			16439
3	3	84.2	17	1834.8	1597.8	176758
4	2	76.3	17	1217.7		338480
5	3	88.6	17	1289.4	1771.4	497794
6	1	59.9	17			661425
7	3	84.9	17	1261.1	1365.1	157222
8	1	54.5	17			319091
9	1	50.8	17			480828
10	1	55.1	17			641719
11	3	95.1	17	1675.9	1013.9	137485
12	2	83.2	17	1701.8		298500
13	1	54.5	17			460570
14	1	51.5	17			621845
15	2	73.6	17	1091.4		117946
16	1	65.9	17			279611
17	3	94.1	17	1105.9	1735.9	438645
18	3	96.5	17	903.5	1084.5	599717

**Radar Type 5\_Trial 8**

Trial Number:		8		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			20		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	63.3	19			88435
2	1	60	19			233755
3	2	72.4	19	996.6		377962
4	1	66.2	19			524214
5	2	82	19	933		70391
6	2	76.9	19	1208.1		215368
7	3	87.4	19	1497.6	1002.6	359056
8	3	84.1	19	1510.9	1010.9	503764
9	3	90.5	19	1691.5	1759.5	52367
10	1	60.4	19			197691
11	2	71.9	19	1077.1		342454
12	3	89.9	19	1776.1	1160.1	485224
13	2	74.1	19	1044.9		34745
14	2	70.7	19	932.3		179725
15	2	76.6	19	1715.4		324324
16	3	83.6	19	1448.4	917.4	468103
17	2	81.1	19	1598.9		16866
18	2	77.1	19	1244.9		161750
19	1	54	19			307173
20	1	66.5	19			

**Radar Type 5\_Trial 9**

Trial Number:		9		VSG Frequency(MHz):		5530
Number of Bursts in Trial:			19		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	97.5	19	918.5	1278.5	627010
2	2	81.4	19	1232.6		151499
3	3	93.2	19	1061.8	1784.8	303073
4	1	60.3	19			457641
5	1	54.3	19			609973
6	2	82.1	19	1142.9		132665
7	3	94.5	19	1324.5	1462.5	284456
8	1	56.8	19			438708
9	2	82.4	19	1103.6		590746
10	1	64.5	19			114107
11	2	73.8	19	1744.2		266070
12	1	55.5	19			419524
13	3	91.2	19	1458.8	988.8	570171
14	2	78.7	19	1877.3		94960
15	1	58.7	19			247970
16	2	72.9	19	1124.1		400470
17	2	75.3	19	935.7		553009
18	2	80.3	19	1882.7		76261
19	2	78.5	19	1258.5		228792

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 10**

<b>Trial Number:</b>		<b>10</b>		<b>VSG Frequency(MHz):</b>		<b>5530</b>	
<b>Number of Bursts in Trial:</b>			<b>10</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	57.2	7			727000	
2	3	88.9	7	1619.1	1067.1	1014862	
3	1	54.5	7			109740	
4	2	69.4	7	1546.6		399887	
5	2	74.5	7	1172.5		690242	
6	2	82.6	7	1539.4		980619	
7	1	60.9	7			73901	
8	2	81	7	1840		363866	
9	2	74.4	7	1378.6		654563	
10	1	56.5	7			946035	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 11**

<b>Trial Number:</b>		<b>11</b>		<b>VSG Frequency(MHz):</b>		<b>5534.4</b>	
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	2	70.9	11	1044.1		29261	
2	2	70.5	11	1769.5		252311	
3	3	96.5	11	1384.5	1247.5	474890	
4	1	61.9	11			700112	
5	2	77.5	11	1837.5		1761	
6	3	99.1	11	1138.9	1158.9	224578	
7	2	81.9	11	1813.1		448072	
8	2	66.9	11	964.1		671896	
9	1	62	11			895362	
10	1	61.8	11			197821	
11	3	100	11	1303	1697	419849	
12	2	82.4	11	1740.6		643536	
13	2	80.6	11	1276.4		867122	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 12**

<b>Trial Number:</b>		<b>12</b>		<b>VSG Frequency(MHz):</b>		<b>5533.6</b>	
<b>Number of Bursts in Trial:</b>			<b>11</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	51.6	9			201180	
2	2	76	9	1002		464941	
3	3	86.7	9	1699.3	1592.3	727080	
4	1	66.3	9			994255	
5	3	98.8	9	1196.2	1814.2	168219	
6	3	95.5	9	1724.5	1512.5	431449	
7	1	61.9	9			697377	
8	1	53.7	9			961212	
9	1	58.2	9			136083	
10	1	50.7	9			400380	
11	3	98.7	9	1636.3	1586.3	662730	



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 13**

<b>Trial Number:</b>		<b>13</b>		<b>VSG Frequency(MHz):</b>		<b>5535.6</b>	
<b>Number of Bursts in Trial:</b>			<b>16</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	96.8	14	910.2	965.2	636157	
2	2	77.7	14	1813.3		70943	
3	3	92.9	14	1514.1	1790.1	251524	
4	1	61.9	14			434008	
5	2	68.6	14	1397.4		614910	
6	2	77.7	14	1548.3		48726	
7	3	93.5	14	1117.5	1233.5	229702	
8	1	51	14			411980	
9	2	70.1	14	1071.9		592107	
10	1	50.2	14			26434	
11	1	61.5	14			207894	
12	3	94	14	1397	1332	387915	
13	2	77.3	14	1159.7		570305	
14	3	93.7	14	1350.3	1896.3	4064	
15	1	63.7	14			185575	
16	2	79.7	14	1764.3		366216	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 14**

<b>Trial Number:</b>		<b>14</b>		<b>VSG Frequency(MHz):</b>		<b>5537.2</b>
<b>Number of Bursts in Trial:</b>			<b>18</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	2	76.8	18	1816.2		486496
2	1	56	18			649127
3	1	63.3	18			145037
4	2	68.5	18	1680.5		305438
5	2	78.5	18	1824.5		466217
6	2	74.9	18	1822.1		627521
7	1	58.3	18			125290
8	1	52.8	18			286330
9	3	93.5	18	1653.5	1489.5	445360
10	3	87.9	18	1295.1	1248.1	606743
11	1	66.3	18			105370
12	1	62.2	18			266703
13	3	85.6	18	1885.4	1377.4	425493
14	1	62.4	18			589415
15	1	52.8	18			85503
16	1	62.7	18			246607
17	2	69.7	18	1876.3		406665
18	3	97.9	18	954.1	1546.1	566929

**Radar Type 5\_Trial 15**

<b>Trial Number:</b>		<b>15</b>		<b>VSG Frequency(MHz):</b>		<b>5535.2</b>	
<b>Number of Bursts in Trial:</b>			<b>15</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	65.1	13			78786	
2	3	99.8	13	948.2	1779.2	271291	
3	1	56.1	13			466238	
4	2	70	13	1295		658425	
5	3	98.3	13	1720.7	972.7	54697	
6	3	84.4	13	1367.6	1238.6	247761	
7	2	68.4	13	1740.6		441115	
8	3	99	13	1639	1211	633835	
9	1	62.2	13			31029	
10	2	80.3	13	970.7		224448	
11	3	90.2	13	1382.8	1677.8	416419	
12	2	82	13	1490		610871	
13	1	59.3	13			7180	
14	2	72.6	13	1167.4		200518	
15	3	85.1	13	1007.9	1162.9	393401	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 16**

Trial Number:		16		VSG Frequency(MHz):		5536
Number of Bursts in Trial:		16		Successful Detection:		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	65.8	15			551501
2	3	85.2	15	1543.8	1265.8	729923
3	3	97.7	15	1813.3	1408.3	165204
4	3	95	15	932	1770	346186
5	2	82.2	15	1407.8		527759
6	2	70.1	15	1101.9		709276
7	2	71.8	15	1694.2		143143
8	2	69.4	15	1890.6		324158
9	3	90	15	1562	1234	504798
10	2	68.5	15	1811.5		686164
11	2	80.8	15	1500.2		120866
12	1	61.3	15			302644
13	2	81.2	15	1400.8		483304
14	1	65.5	15			666028
15	1	57.7	15			98815
16	3	97.4	15	1367.6	1804.6	279081

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 17**

Trial Number:		17		VSG Frequency(MHz):		5534.8
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	98.8	12	1222.2	1169.2	566865
2	2	74.2	12	1148.8		790881
3	2	79.5	12	1027.5		94028
4	2	78.5	12	923.5		317465
5	1	63.9	12			541217
6	2	73.5	12	1543.5		763013
7	1	56.7	12			66625
8	1	57.7	12			290248
9	2	78.9	12	1056.1		513091
10	1	50.1	12			737158
11	2	79.6	12	1435.4		38997
12	1	62.7	12			262629
13	2	78	12	1102		485451

**Radar Type 5\_Trial 18**

<b>Trial Number:</b>		<b>18</b>		<b>VSG Frequency(MHz):</b>		<b>5537.6</b>
<b>Number of Bursts in Trial:</b>			<b>19</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	1	62.7	19			485076
2	1	61.4	19			7893
3	2	78.5	19	1360.5		160344
4	3	93.7	19	983.3	1774.3	312049
5	2	77.2	19	1132.8		465338
6	2	69.8	19	1789.2		617300
7	2	77.2	19	1023.8		141660
8	1	55.1	19			294589
9	2	67.7	19	1072.3		446586
10	3	87.5	19	1642.5	965.5	597492
11	2	77.7	19	1869.3		122596
12	3	93.3	19	1517.7	910.7	274853
13	2	80.4	19	1336.6		427416
14	1	66.2	19			581583
15	1	51.5	19			104303
16	2	67.5	19	1352.5		256366
17	2	73	19	1732		408672
18	3	87.2	19	1189.8	1836.8	559548
19	3	83.4	19	983.6	1446.6	85113

**Radar Type 5\_Trial 19**

<b>Trial Number:</b>		<b>19</b>		<b>VSG Frequency(MHz):</b>		<b>5532.8</b>	
<b>Number of Bursts in Trial:</b>			<b>10</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	1	54.4	7			453323	
2	2	83	7	1637		742838	
3	3	91.4	7	1474.6	1186.6	1032362	
4	1	57.8	7			126692	
5	2	79.9	7	1592.1		416647	
6	3	94.1	7	1905.9	1184.9	706212	
7	2	71.1	7	1878.9		997026	
8	3	92.3	7	1799.7	1292.7	90626	
9	2	78.4	7	1408.6		381140	
10	3	90	7	1670	1701	670238	

Report No.: TMWK2201000141KR

### Radar Type 5\_Trial 20

<b>Trial Number:</b>		<b>20</b>		<b>VSG Frequency(MHz):</b>		<b>5535.2</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>Yes</b>
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	1	66.1	13			687291	
2	2	82.1	13	1857.9		39223	
3	3	90.6	13	1673.4	1210.4	245904	
4	1	59.1	13			454178	
5	3	91.4	13	1138.6	1647.6	659373	
6	2	77.3	13	1791.7		13715	
7	1	57.1	13			221198	
8	1	52.2	13			428848	
9	2	67.6	13	1154.4		635505	
10	1	53.9	13			844207	
11	3	95.8	13	1093.2	1780.2	194888	
12	2	80.5	13	1915.5		402287	
13	3	92.2	13	1013.8	1830.8	608896	
14	2	81.1	13	1744.9		816285	



Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 21**

Trial Number:		21		VSG Frequency(MHz):		5525.2
Number of Bursts in Trial:			13		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	86.7	12	1675.3	1844.3	182467
2	1	51.7	12			406544
3	3	85.3	12	1456.7	1037.7	628364
4	3	83.5	12	1556.5	1046.5	851151
5	1	57.3	12			155687
6	1	55.2	12			379167
7	3	90.3	12	1895.7	1522.7	600387
8	1	55.8	12			826085
9	1	62.9	12			128160
10	3	96.2	12	1545.8	1209.8	350547
11	1	58.2	12			574984
12	3	95.1	12	1656.9	1458.9	795566
13	2	71.3	12	1877.7		100491

**Radar Type 5\_Trial 22**

Trial Number:		22		VSG Frequency(MHz):		5527.2
Number of Bursts in Trial:			9		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	53.6	7			468582
2	3	98.7	7	1889.3	1143.3	789407
3	3	99.6	7	1343.4	1312.4	1111748
4	1	56	7			105687
5	2	77.5	7	1293.5		428293
6	3	98.9	7	1274.1	1004.1	750482
7	1	65.2	7			1074354
8	1	51.6	7			65890
9	1	55.4	7			388998

**Radar Type 5\_Trial 23**

<b>Trial Number:</b>		<b>23</b>		<b>VSG Frequency(MHz):</b>		<b>5524.8</b>	
<b>Number of Bursts in Trial:</b>			<b>14</b>		<b>Successful Detection:</b>		<b>No</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	87.2	13	976.8	1182.8	456222	
2	3	84.1	13	1371.9	1726.9	662502	
3	3	89	13	967	1039	16717	
4	3	88.9	13	1357.1	1738.1	223331	
5	3	94.5	13	986.5	1466.5	430680	
6	1	65.2	13			639436	
7	1	55.4	13			846981	
8	2	83.2	13	1070.8		198521	
9	3	87.7	13	1173.3	1039.3	404915	
10	2	74	13	1161		612568	
11	3	90.8	13	1506.2	1882.2	817524	
12	1	60.3	13			173201	
13	2	71.1	13	1801.9		379951	
14	2	78.1	13	1777.9		587132	

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 24**

<b>Trial Number:</b>		<b>24</b>		<b>VSG Frequency(MHz):</b>		<b>5525.6</b>
<b>Number of Bursts in Trial:</b>			<b>13</b>		<b>Successful Detection: Yes</b>	
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>
1	1	58.8	11			856587
2	3	87.7	11	1491.3	1450.3	158431
3	3	85	11	1345	1336	381373
4	2	73.1	11	1582.9		604827
5	3	99.7	11	949.3	1372.3	827314
6	1	60.2	11			131379
7	2	69.2	11	1913.8		354215
8	3	94.4	11	1898.6	1169.6	576540
9	1	50.9	11			802360
10	3	96.4	11	1332.6	1767.6	103505
11	1	56	11			327585
12	1	53.5	11			550800
13	1	53.5	11			774253

**Radar Type 5\_Trial 25**

Trial Number:		25		VSG Frequency(MHz):		5523.6
Number of Bursts in Trial:			17		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	68	16	1699		58267
2	3	98	16	981	1380	228326
3	2	68.2	16	1687.8		398813
4	2	81.7	16	1280.3		570087
5	2	76.9	16	1744.1		37258
6	2	79.5	16	1206.5		207709
7	2	81.3	16	1084.7		378378
8	1	64.6	16			549911
9	1	51.1	16			16288
10	3	94.6	16	1633.4	1154.4	186405
11	2	68.5	16	1641.5		357224
12	1	60.8	16			528866
13	2	75	16	1493		697742
14	1	50.4	16			166097
15	2	79.7	16	1539.3		336250
16	1	58.4	16			507802
17	3	84.2	16	1458.8	1431.8	676043

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 26**

<b>Trial Number:</b>		26		<b>VSG Frequency(MHz):</b>		5526	
<b>Number of Bursts in Trial:</b>			12		<b>Successful Detection:</b>		Yes
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval	
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)	
1	1	54.2	10			205511	
2	1	61	10			447775	
3	2	82.5	10	1009.5		689367	
4	2	70.6	10	1232.4		931205	
5	3	90.8	10	1674.2	1636.2	175168	
6	2	68.4	10	1916.6		417080	
7	3	92.6	10	1744.4	1784.4	657633	
8	2	75.7	10	1291.3		900689	
9	1	65.6	10			145963	
10	3	91.4	10	1473.6	1019.6	387034	
11	3	86.2	10	1224.8	1531.8	628615	
12	3	92.8	10	1855.2	1312.2	869468	

**Radar Type 5\_Trial 27**

Trial Number:		27		VSG Frequency(MHz):		5524.4
Number of Bursts in Trial:			15		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	2	83.1	14	1483.9		92710
2	3	92.6	14	1705.4	1506.4	285381
3	2	82.9	14	1601.1		478875
4	3	91	14	935	1252	671881
5	1	61.7	14			68990
6	3	87.4	14	931.6	936.6	261939
7	3	85.3	14	1581.7	958.7	454720
8	2	69.4	14	1080.6		649017
9	3	92.3	14	1066.7	1366.7	45024
10	1	63.8	14			238778
11	2	80.9	14	1766.1		431503
12	3	89.8	14	1884.2	1616.2	623037
13	1	63.4	14			21285
14	1	57.7	14			215068
15	3	93.2	14	1870.8	1865.8	406865

**Radar Type 5\_Trial 28**

Trial Number:		28		VSG Frequency(MHz):		5528
Number of Bursts in Trial:			8		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	1	66.5	5			1130152
2	1	62.3	5			1493868
3	2	74.6	5	1573.4		358181
4	1	59.8	5			721861
5	3	89.5	5	1555.5	1249.5	1083093
6	3	85.9	5	1311.1	1756.1	1446033
7	2	66.7	5	1397.3		313511
8	3	92.1	5	1374.9	1126.9	676008

**Radar Type 5\_Trial 29**

Trial Number:		29		VSG Frequency(MHz):		5527.6
Number of Bursts in Trial:			8		Successful Detection: Yes	
Burst (8-20)	Number Pulses per Burst (1-3)	Pulse Width (50-100)	Chirp Width (5-20)	Pulse 1-to-2 Spacing	Pulse 2-to-3 Spacing	Starting Location Within Interval
		( $\mu$ sec)	(MHz)	( $\mu$ sec)	( $\mu$ sec)	( $\mu$ sec)
1	3	95	6	1799	1886	1038009
2	2	71	6	1447		1402462
3	2	83	6	1262		268919
4	2	77.3	6	940.7		632072
5	2	79.5	6	1108.5		995039
6	2	75.7	6	966.3		1358052
7	1	55.9	6			224291
8	1	61.3	6			587763

Report No.: TMWK2201000141KR

**Radar Type 5\_Trial 30**

<b>Trial Number:</b>		<b>30</b>		<b>VSG Frequency(MHz):</b>		<b>5526.8</b>	
<b>Number of Bursts in Trial:</b>			<b>10</b>		<b>Successful Detection:</b>		<b>Yes</b>
<b>Burst (8-20)</b>	<b>Number Pulses per Burst (1-3)</b>	<b>Pulse Width (50-100)</b>	<b>Chirp Width (5-20)</b>	<b>Pulse 1-to-2 Spacing</b>	<b>Pulse 2-to-3 Spacing</b>	<b>Starting Location Within Interval</b>	
		<b>(<math>\mu</math> sec)</b>	<b>(MHz)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	<b>(<math>\mu</math> sec)</b>	
1	3	88.1	8	1827.9	1810.9	758285	
2	3	95.2	8	1441.8	1525.8	1048432	
3	2	71.9	8	1067.1		143532	
4	2	68	8	1477		433771	
5	1	51.9	8			725019	
6	3	85.6	8	1159.4	1500.4	1013071	
7	2	69.9	8	1077.1		107668	
8	1	63.3	8			398642	
9	1	63.1	8			689270	
10	3	94.4	8	1609.6	1429.6	977450	



Report No.: TMWK2201000141KR

**Frequency Hopping Radar Test Waveforms**

**Radar Type 6**

Trial	Pulse Width	PRI	Pulses per Hop	Hopping Rate	Hopping Sequence Length	Successful Detection
	( $\mu$ sec)	( $\mu$ sec)		(kHz)	(msec)	(Yes/No)
1	1	333	9	0.333	300	Yes
2	1	333	9	0.333	300	Yes
3	1	333	9	0.333	300	Yes
4	1	333	9	0.333	300	Yes
5	1	333	9	0.333	300	Yes
6	1	333	9	0.333	300	Yes
7	1	333	9	0.333	300	Yes
8	1	333	9	0.333	300	Yes
9	1	333	9	0.333	300	Yes
10	1	333	9	0.333	300	Yes
11	1	333	9	0.333	300	Yes
12	1	333	9	0.333	300	Yes
13	1	333	9	0.333	300	Yes
14	1	333	9	0.333	300	Yes
15	1	333	9	0.333	300	Yes
16	1	333	9	0.333	300	Yes
17	1	333	9	0.333	300	Yes
18	1	333	9	0.333	300	Yes
19	1	333	9	0.333	300	Yes
20	1	333	9	0.333	300	Yes
21	1	333	9	0.333	300	Yes
22	1	333	9	0.333	300	Yes
23	1	333	9	0.333	300	Yes
24	1	333	9	0.333	300	Yes
25	1	333	9	0.333	300	Yes
26	1	333	9	0.333	300	Yes
27	1	333	9	0.333	300	Yes
28	1	333	9	0.333	300	Yes
29	1	333	9	0.333	300	Yes
30	1	333	9	0.333	300	Yes