Type 5 Radar Waveform_20

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	1	66.4	9			97.813
2	1	57.5	9			146.181
3	3	98.6	9	1949	1322	351.612
4	1	98.1	9			837.803
5	3	72.3	9	1424	1199	15.104
6	1	89.6	9			122.395
7	2	90.3	9	1196		993.075
8	1	60.5	9			185.626
9	2	79.2	9	1352		567.087
10	2	71.8	9	1788		406.318
11	2	80	9	1972		291.809

Type 5 Radar Waveform_21

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	1	72.1	13			652.646
2	3	51.7	13	1621	1191	44.797
3	1	91.2	13			107.373
4	1	73.6	13			36.54
5	2	56.4	13	1276		1017.867
6	2	76.3	13	1292		951.123
7	2	87.8	13	1984		193.05
8	2	71.5	13	1939		783.367
9	1	99.4	13			858.633

Type 5 Radar Waveform_22

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	63.4	6	1535		124.26
2	2	84.6	6	1737		576
3	2	56.9	6	1186		145.21
4	3	90.8	6	1382	1548	0.27
5	2	68.9	6	1644		526.85
6	2	50.6	6	1253		147.01
7	1	85.9	6			302.81
8	3	89.5	6	1099	1721	682.91
9	3	58	6	1837	1443	736.7
10	1	76.9	6			697.03
11	2	99.4	6	1794		207.09
12	2	77	6	1878		546.78
13	3	63.5	6	1003	1784	290.79
14	1	68.4	6			338.4
15	3	65.3	6	1952	1323	616.1
16	2	64.7	6	1419		666.3

Type 5 Radar Waveform_23

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	1	82.3	18			821.609
2	2	96.4	18	1136		1193.567
3	1	53.7	18			394.743
4	2	68.2	18	1471		393.02
5	2	53.2	18	1086		1059.437
6	1	63.5	18			425.023
7	2	62.1	18	1591		773.43
8	2	68.9	18	1876		45.627
9	1	73	18			863.133

Type 5 Radar Waveform_24

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	92.9	16	1079	1634	850.645
2	2	54.5	16	1684		408.787
3	3	79.2	16	1331	1608	1050.703
4	2	66.5	16	1277		564.11
5	3	56.5	16	1955	1463	217.217
6	1	57.2	16			1165.613
7	2	57.2	16	1846		1251.86
8	3	93.4	16	1704	1409	870.567
9	1	93.6	16			510.033

Type 5 Radar Waveform_25

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	79.9	12	1451	1706	571.113
2	2	94.5	12	1723		740.497
3	1	61.7	12			675.384
4	2	66.8	12	1717		545.071
5	2	69.2	12	1544		171.199
6	2	97.1	12	1605		213.416
7	2	75.9	12	1920		150.693
8	2	54.2	12	1078		491.99
9	2	59.2	12	1895		156.387
10	2	68.7	12	1970		681.004
11	3	53.1	12	1553	1129	20.271
12	2	65.6	12	1779		757.829
13	3	50.1	12	1937	1675	67.686
14	2	67.8	12	1701		798.943

Type 5 Radar Waveform_26

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	85.3	12	1137		553.671
2	1	57.9	12			269.526
3	2	60.3	12	1664		158.68
4	2	61.7	12	1295		77.62
5	2	55.3	12	1340		400.95
6	2	69.6	12	1982		264.45
7	2	95.5	12	1965		172.78
8	3	97.1	12	1499	1013	3.32
9	1	55.8	12			573.31
10	3	76.1	12	1948	1616	267.39
11	1	75.1	12			193.76
12	2	63.9	12	1543		243.09
13	2	93.7	12	1699		593.56
14	1	95.9	12			402.95
15	1	96	12			77.84
16	2	57.5	12	1454		319.15
17	3	73.2	12	1225	1447	169.15
18	1	53.2	12			337.8
19	1	87	12			475.6
20	1	76.2	12			162.3

Type 5 Radar Waveform_27

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	1	71.7	11			46.432
2	1	56.5	11			378.871
3	1	57.7	11			42.382
4	3	64.6	11	1754	1191	441.333
5	2	61.1	11	1502		357.724
6	2	58.2	11	1508		608.175
7	3	61.5	11	1901	1946	234.476
8	2	76.5	11	1146		103.167
9	2	80.7	11	1433		185.108
10	2	54.5	11	1755		212.799
11	2	75.9	11	1810		31.641
12	2	93.4	11	1767		193.242
13	2	69.2	11	1831		106.253
14	1	88.5	11			336.704
15	1	97.3	11			612.655
16	3	74.2	11	1733	1268	253.936
17	2	52.2	11	1165		346.537
18	2	54.4	11	1661		564.758
19	2	86.3	11	1526		331.279

Type 5 Radar Waveform_28

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	59.4	6	1572	1599	429.226
2	3	93.2	6	1803	1631	916.59
3	2	52.3	6	1301		586.89
4	2	66.9	6	1576		628.82
5	2	64	6	1939		645.46
6	1	78	6			1094.68
7	3	61.3	6	1538	1225	486.92
8	3	50	6	1425	1961	1094.1

			Type 5 Radar Waveform_29			
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	2	99.9	16	1841		1323.72
2	2	55.3	16	1316		362.44
3	3	51.2	16	1241	1366	1449.05
4	3	87.9	16	1484	1609	1431.83
5	1	55.8	16			1437.87
6	1	72.8	16			272.35
7	1	98.3	16			169.07
8	2	90.1	16	1380		1265.2

			Type 5 Radar Waveform_30			
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μsec)	Pulse 2-to-3 PRI (μsec)	Start Location Within Interval (msec)
1	3	76.5	13	1241	1894	185.164
2	2	59.2	13	1424		494.81
3	1	90.8	13			142.51
4	1	72.9	13			609.26
5	1	88.4	13			455.89
6	3	67.4	13	1890	1432	42.7
7	3	58.2	13	1085	1240	564.53
8	2	51	13	1477		10.19
9	2	95.5	13	1423		439.21
10	2	62.1	13	1803		267.36
11	2	89.2	13	1479		672.28
12	3	51.2	13	1662	1991	504.41
13	2	89.8	13	1805		363.62
14	2	77	13	1484		139.19
15	2	70.9	13	1388		517
16	2	66.4	13	1349		120.2

Radar Type 6 - Radar Statistical Performance

Trail #	1=Detection 0=No Detection	Trail #	1=Detection 0=No Detection
1	1	16	1
2	1	17	1
3	1	18	1
4	1	19	1
5	1	20	1
6	1	21	1
7	1	22	1
8	1	23	1
9	1	24	1
10	1	25	1
11	1	26	1
12	1	27	1
13	1	28	1
14	1	29	1
15	1	30	1
Detection Percentage (%)			100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5522	6	3	5539	9
4	5565	12	5	5510	15
7	5518	21	9	5541	27
20	5528	60	11	5548	33
45	5566	135	14	5531	42
47	5497	141	38	5569	114
53	5535	159	44	5537	132
60	5548	180	48	5526	144
65	5545	195	52	5500	156
94	5563	282	55	5546	165
98	5555	294	63	5496	189
--	--	--	65	5533	195
--	--	--	71	5493	213
--	--	--	72	5562	216
--	--	--	78	5515	234
--	--	--	79	5503	237
--	--	--	81	5570	243

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5511	6	3	5494	9
7	5531	21	5	5513	15
11	5566	33	6	5553	18
14	5569	42	11	5514	33
27	5493	81	18	5497	54
30	5548	90	28	5500	84
41	5492	123	32	5567	96
65	5538	195	34	5533	102
68	5506	204	39	5531	117
76	5558	228	44	5543	132
77	5503	231	48	5522	144
78	5496	234	49	5510	147
82	5517	246	50	5565	150
83	5541	249	55	5504	165
95	5555	285	59	5556	177
99	5534	297	66	5502	198
100	5564	300	71	5511	213
--	--	--	75	5558	225
--	--	--	83	5552	249

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5491	3	6	5492	18
2	5534	6	12	5566	36
4	5493	12	13	5558	39
7	5506	21	20	5556	60
19	5537	57	23	5497	69
24	5528	72	25	5511	75
25	5544	75	28	5570	84
26	5560	78	35	5505	105
33	5548	99	37	5554	111
35	5498	105	40	5501	120
38	5514	114	53	5496	159
45	5554	135	80	5513	240
47	5523	141	84	5537	252
65	5566	195	91	5534	273
70	5490	210	100	5507	300
74	5536	222	--	--	--
77	5553	231	--	--	--
82	5552	246	--	--	--
84	5526	252	--	--	--
85	5511	255	--	--	--
99	5555	297	--	--	--

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5516	33	1	5519	3
15	5493	45	10	5509	30
22	5501	66	12	5523	36
24	5554	72	15	5531	45
28	5531	84	19	5543	57
31	5502	93	24	5566	72
40	5494	120	36	5557	108
58	5564	174	47	5527	141
61	5540	183	65	5501	195
68	5553	204	79	5560	237
71	5534	213	82	5569	246
78	5537	234	86	5565	258
82	5492	246	93	5539	279
86	5495	258	97	5541	291
88	5525	264	--	--	--
89	5541	267	--	--	--
90	5550	270	--	--	--
98	5499	294	--	--	--

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5544	3	14	5556	42
2	5535	6	17	5550	51
4	5570	12	26	5490	78
11	5533	33	30	5566	90
20	5558	60	50	5501	150
30	5496	90	53	5565	159
34	5540	102	54	5534	162
36	5521	108	83	5538	249
37	5543	111	89	5546	267
42	5551	126	90	5548	270
45	5564	135	92	5504	276
62	5556	186	94	5564	282
66	5542	198	98	5514	294
68	5523	204	--	--	--
69	5527	207	--	--	--
78	5550	234	--	--	--
88	5518	264	--	--	--
94	5517	282	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5564	9	12	5559	36
6	5566	18	18	5541	54
28	5556	84	19	5543	57
30	5563	90	23	5524	69
34	5558	102	40	5532	120
35	5547	105	43	5542	129
36	5490	108	44	5515	132
38	5537	114	47	5568	141
42	5521	126	52	5538	156
48	5569	144	84	5498	252
50	5530	150	85	5557	255
56	5503	168	--	--	--
74	5493	222	--	--	--
83	5516	249	--	--	--
84	5524	252	--	--	--
92	5548	276	--	--	--

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5555	12	8	5569	24
11	5494	33	11	5495	33
12	5568	36	14	5520	42
13	5536	39	19	5491	57
32	5512	96	22	5531	66
66	5533	198	41	5549	123
67	5492	201	49	5559	147
70	5503	210	50	5514	150
76	5534	228	59	5542	177
77	5566	231	65	5556	195
86	5525	258	68	5523	204
90	5502	270	71	5501	213
93	5559	279	72	5539	216
--	--	--	74	5567	222
--	--	--	75	5565	225
--	--	--	78	5492	234

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
11	5559	33	9	5564	27
15	5534	45	11	5570	33
16	5514	48	20	5529	60
21	5536	63	24	5568	72
22	5533	66	27	5518	81
23	5505	69	36	5496	108
33	5547	99	47	5535	141
43	5551	129	52	5522	156
60	5555	180	53	5512	159
64	5507	192	58	5520	174
75	5563	225	62	5523	186
79	5498	237	67	5494	201
89	5528	267	73	5507	219
91	5561	273	75	5498	225
--	--	--	79	5566	237
--	--	--	81	5514	243
--	--	--	82	5543	246
--	--	--	95	5532	285
--	--	--	96	5516	288

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
5	5566	15	9	5537	27
14	5557	42	12	5559	36
20	5568	60	15	5536	45
21	5539	63	21	5518	63
34	5560	102	29	5511	87
48	5521	144	34	5520	102
52	5542	156	45	5570	135
66	5556	198	47	5569	141
67	5553	201	64	5496	192
81	5497	243	68	5534	204
82	5549	246	74	5550	222
95	5520	285	76	5527	228
--	--	--	80	5553	240

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
9	5545	27	4	5537	12
15	5531	45	9	5563	27
17	5535	51	10	5532	30
18	5546	54	19	5531	57
20	5544	60	23	5528	69
31	5519	93	26	5497	78
42	5493	126	28	5560	84
52	5499	156	63	5541	189
63	5536	189	74	5566	222
74	5561	222	99	5516	297
78	5548	234	--	--	--
83	5565	249	--	--	--
93	5562	279	--	--	--
98	5525	294	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
27	5561	81	3	5526	9
31	5513	93	5	5508	15
37	5499	111	11	5513	33
40	5550	120	30	5507	90
47	5505	141	35	5555	105
72	5540	216	46	5491	138
73	5496	219	58	5563	174
78	5570	234	59	5536	177
84	5511	252	64	5543	192
99	5515	297	65	5497	195
--	--	--	66	5558	198
--	--	--	69	5553	207
--	--	--	71	5545	213
--	--	--	74	5498	222
--	--	--	75	5519	225
--	--	--	78	5550	234
--	--	--	79	5529	237
--	--	--	91	5511	273
--	--	--	93	5512	279
--	--	--	100	5542	300

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5491	3	3	5544	9
2	5558	6	15	5517	45
9	5490	27	21	5522	63
17	5514	51	32	5560	96
25	5498	75	33	5545	99
39	5546	117	34	5563	102
45	5527	135	38	5552	114
49	5534	147	42	5515	126
53	5496	159	56	5514	168
60	5504	180	62	5542	186
74	5507	222	67	5510	201
83	5551	249	70	5526	210
94	5492	282	71	5513	213
--	--	--	77	5565	231
--	--	--	83	5551	249
--	--	--	88	5543	264

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5506	9	7	5513	21
12	5510	36	10	5511	30
18	5541	54	11	5569	33
19	5530	57	22	5494	66
21	5548	63	25	5510	75
31	5522	93	29	5558	87
35	5515	105	31	5506	93
42	5495	126	37	5520	111
50	5560	150	39	5549	117
62	5526	186	43	5529	129
63	5567	189	48	5547	144
64	5519	192	56	5548	168
68	5531	204	58	5501	174
69	5532	207	60	5534	180
90	5535	270	63	5530	189
92	5498	276	65	5536	195
--	--	--	70	5533	210
--	--	--	72	5540	216
--	--	--	76	5516	228
--	--	--	80	5514	240
--	--	--	86	5509	258
--	--	--	93	5515	279
--	--	--	94	5500	282
--	--	--	100	5554	300

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
10	5569	30	7	5551	21
11	5491	33	13	5496	39
15	5523	45	15	5493	45
16	5507	48	16	5561	48
20	5502	60	22	5500	66
34	5520	102	39	5506	117
35	5529	105	42	5547	126
38	5566	114	47	5526	141
43	5550	129	52	5495	156
54	5562	162	54	5549	162
56	5552	168	76	5548	228
58	5518	174	78	5513	234
62	5521	186	80	5530	240
64	5531	192	84	5544	252
69	5495	207	85	5509	255
71	5505	213	91	5499	273
75	5533	225	94	5498	282
83	5549	249	--	--	--
84	5567	252	--	--	--
86	5497	258	--	--	--
87	5517	261	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5547	6	3	5558	9
9	5567	27	11	5502	33
13	5553	39	12	5553	36
22	5538	66	19	5552	57
35	5490	105	23	5562	69
36	5533	108	25	5563	75
37	5554	111	31	5569	93
40	5503	120	36	5525	108
43	5566	129	40	5521	120
53	5537	159	47	5549	141
61	5494	183	51	5520	153
62	5511	186	57	5526	171
63	5520	189	58	5556	174
67	5523	201	78	5511	234
73	5561	219	79	5567	237
75	5531	225	81	5536	243
79	5512	237	82	5550	246
86	5569	258	98	5565	294
90	5558	270	--	--	--
92	5498	276	--	--	--
97	5497	291	--	--	--
99	5540	297	--	--	--

6. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part

15E of the FCC Rules.

The End

Appendix A - Test Setup Photograph

Refer to " 2010TW0004-Setup Photo" file.

Appendix B - External Photograph

Refer to " 2010TW0004-External Photo" file.

Appendix C - Internal Photograph

Refer to " 2010TW0004-Internal Photo" file.