

Type 5 Radar Waveform_20						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	80.6	13	1029		760.536
2	2	68.3	13	1864		1011.751
3	2	56.3	13	1022		10.432
4	2	61.2	13	1204		60.063
5	2	94.7	13	1552		60.354
6	3	82.1	13	1553	1083	661.235
7	1	87.9	13			673.145
8	2	63.3	13	1618		669.336
9	3	72.4	13	1838	1637	669.377
10	1	81.1	13			176.398
11	1	69.6	13			688.609

Type 5 Radar Waveform_21						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	50.4	17	1708		100.875
2	2	80	17	1726		119.59
3	3	81.9	17	1780	1998	456.46
4	1	56.5	17			168.59
5	2	86.8	17	1675		7.35
6	1	63	17			593.35
7	2	74.9	17	1614		664.09
8	2	73	17	1119		383.95
9	1	68.7	17			196.43
10	3	67.5	17	1158	1355	313.6

Type 5 Radar Waveform_22						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	62.2	16	1912		0.842
2	2	78.2	16	1334		525.27
3	2	92.9	16	1809		517.68
4	1	51.6	16			370.77
5	2	81.1	16	1803		501.8
6	1	53.3	16			312.3
7	3	88.6	16	1570	1826	606.55
8	1	77.1	16			648.89
9	2	51.9	16	1101		345.5
10	1	60.8	16			268.46
11	1	63.6	16			103.63
12	3	96.9	16	1609	1548	506.79
13	2	85.4	16	1080		189.81
14	2	81.5	16	1085		208.91
15	2	90.8	16	1965		231
16	3	81.7	16	1593	1069	388.5

Type 5 Radar Waveform_23						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	57	16	1748		397.589
2	2	53.7	16	1036		662.38
3	1	92.1	16			434.03
4	2	76.2	16	1210		72.48
5	2	86	16	1933		7.79
6	3	63	16	1960	1989	213.31
7	2	73.5	16	1953		515.51
8	2	80.8	16	1686		148.16
9	1	88.6	16			42.21
10	2	100	16	1372		181.46
11	2	74.7	16	1025		318.98
12	2	68.2	16	1349		183.56
13	3	51.6	16	1961	1072	177.66
14	1	61.5	16			611
15	3	58.7	16	1948	1297	244.4
16	2	86.2	16	1941		471.4

Type 5 Radar Waveform_24						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	80.7	7	1932		374.051
2	2	78.5	7	1323		362.778
3	1	66.1	7			247.765
4	1	96.3	7			441.243
5	1	59.2	7			362.051
6	3	89.4	7	1605	1583	435.678
7	2	79.8	7	1910		218.576
8	2	58.3	7	1448		479.484
9	3	69.8	7	1666	1535	589.011
10	2	64.2	7	1138		172.599
11	2	54.5	7	1198		165.796
12	1	75.8	7			676.304
13	3	69.2	7	1563	1550	637.062
14	3	60.5	7	1931	1515	60.809
15	2	65.9	7	1721		304.347
16	3	76.1	7	1134	1986	312.965
17	2	64.7	7	1543		622.482

Type 5 Radar Waveform_25						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	63.2	16	1480		38.923
2	2	99.3	16	1676		166.867
3	1	91.8	16			782.654
4	2	93.1	16	1366		710.481
5	2	67.3	16	1208		391.299
6	2	69.6	16	1201		565.576
7	2	61.1	16	1343		478.113
8	1	80.2	16			71.67
9	2	63.2	16	1626		141.997
10	3	56	16	1899	1537	432.814
11	2	90.1	16	1115		343.281
12	3	94.5	16	1255	1113	319.529
13	2	51.8	16	1865		55.386
14	2	51.6	16	1691		523.543

Type 5 Radar Waveform_26						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	66.4	13	1818	1581	508.906
2	1	77.2	13			392.303
3	2	57.3	13	1321		47.356
4	2	80.4	13	1117		496.019
5	2	65	13	1298		827.372
6	2	77.4	13	1555		764.415
7	3	72.1	13	1965	1558	192.678
8	2	94.2	13	1797		113.552
9	2	69.3	13	1319		775.085
10	3	77.9	13	1626	1300	885.028
11	2	62.3	13	1227		832.931
12	3	74.9	13	1555	1924	396.754
13	1	85.1	13			450.277

Type 5 Radar Waveform_27						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	95.9	15	1827		394.839
2	2	52.8	15	1980		758.16
3	3	89.9	15	1574	1725	218.12
4	2	63	15	1485		1079.7
5	2	76.8	15	1093		1095.64
6	1	89.5	15			641.82
7	2	65.3	15	1821		655.41
8	1	55.5	15			1164.33
9	2	91.5	15	1814		766.7
10	3	54.2	15	1206	1343	983.9

Type 5 Radar Waveform_28						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	75.3	15	1879		1.849
2	3	51.7	15	1714	1579	831.057
3	1	85.9	15			517.144
4	2	97.8	15	1032		495.301
5	2	55.3	15	1695		509.529
6	2	59.3	15	1914		1.486
7	2	52.2	15	1411		463.813
8	2	60.3	15	1289		208.06
9	2	67.8	15	1347		35.507
10	3	61.9	15	1518	1673	278.664
11	1	79.3	15			313.861
12	2	95.1	15	1693		182.399
13	2	67	15	1165		109.786
14	3	97.1	15	1772	1714	212.443



Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	77.8	13	1494		296.576
2	3	77.6	13	1228	1443	620.073
3	2	86.2	13	1110		555.117
4	3	99.4	13	1623	1801	500.78
5	2	71.8	13	1811		430.423
6	2	89.5	13	1273		492.967
7	2	94.4	13	1606		485.93
8	3	50	13	1750	1126	460.163
9	2	80.3	13	1134		329.677
10	3	71.6	13	1946	1348	135.13
11	3	54.3	13	1467	1182	176.053
12	2	93.1	13	1132		272.327
13	2	86.7	13	1917		100.64
14	1	60.7	13			619.903
15	2	63.5	13	1403		185.117
16	3	80.6	13	1217	1198	406.9
17	1	78.6	13			446.833
18	2	68.7	13	1539		200.267

Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	73.1	8	1990	1893	581.676
2	3	88.4	8	1550	1636	523.68
3	1	79	8			120.76
4	1	51.9	8			352.05
5	2	85.6	8	1963		486.72
6	2	74.7	8	1224		367.15
7	2	83.7	8	1010		232.27
8	2	63.1	8	1229		514.96
9	3	96.6	8	1737	1590	147.58
10	3	76.3	8	1331	1739	311.69
11	2	74.3	8	1919		110.88
12	1	74.6	8			353.18
13	2	61.6	8	1535		3.71
14	2	89.1	8	1023		112.32
15	1	80.9	8			96.63
16	1	95.9	8			190.73
17	2	81.3	8	1384		492.3
18	1	80.4	8			114.9
19	2	58.7	8	1563		48.6
20	2	86	8	1854		536.3

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5492.0	1	16	5570.0	1
2	5497.2	1	17	5575.6	1
3	5502.4	1	18	5581.1	1
4	5507.6	1	19	5586.7	1
5	5512.8	1	20	5592.3	1
6	5518.0	1	21	5597.9	1
7	5523.2	1	22	5603.4	1
8	5528.4	1	23	5609.0	1
9	5533.6	1	24	5614.6	1
10	5538.8	1	25	5620.1	1
11	5544.0	1	26	5625.7	1
12	5549.2	1	27	5631.3	1
13	5554.4	1	28	5636.8	1
14	5559.6	1	29	5642.4	1
15	5564.8	1	30	5648.0	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	5650	6	2	5628	6
4	5636	12	3	5650	9
7	5537	21	11	5546	33
8	5511	24	14	5571	42
9	5542	27	17	5529	51
15	5592	45	20	5593	60
16	5586	48	25	5647	75
20	5539	60	27	5588	81
22	5607	66	30	5629	90
24	5517	72	35	5564	105
25	5502	75	36	5566	108
28	5555	84	40	5532	120
33	5562	99	43	5617	129
38	5646	114	47	5507	141
41	5532	123	53	5615	159
42	5515	126	56	5584	168
43	5630	129	59	5579	177
47	5491	141	62	5627	186
52	5512	156	63	5561	189
58	5619	174	64	5581	192
65	5620	195	66	5567	198
66	5606	198	69	5594	207
71	5533	213	70	5633	210
80	5518	240	72	5599	216
81	5492	243	74	5646	222
89	5567	267	75	5634	225
93	5610	279	76	5499	228
97	5508	291	79	5501	237
98	5506	294	83	5511	249
100	5625	300	84	5526	252
--	--	--	85	5492	255
--	--	--	86	5509	258
--	--	--	89	5640	267
--	--	--	91	5641	273

--	--	--	93	5534	279
--	--	--	94	5570	282
--	--	--	98	5635	294
--	--	--	99	5498	297

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
4	5540	12	2	5549	6
16	5620	48	4	5512	12
23	5496	69	7	5495	21
24	5497	72	8	5503	24
30	5634	90	9	5586	27
32	5572	96	10	5562	30
34	5648	102	18	5518	54
37	5606	111	20	5635	60
45	5650	135	21	5540	63
48	5631	144	28	5629	84
51	5591	153	29	5519	87
52	5568	156	31	5644	93
53	5498	159	35	5622	105
54	5573	162	36	5552	108
60	5527	180	40	5589	120
62	5507	186	41	5577	123
70	5536	210	42	5647	126
71	5627	213	47	5581	141
75	5557	225	48	5591	144
76	5504	228	49	5544	147
77	5567	231	50	5634	150
81	5635	243	51	5545	153
86	5614	258	53	5606	159
90	5649	270	54	5554	162
91	5582	273	55	5641	165
93	5630	279	60	5583	180
94	5561	282	63	5558	189
98	5610	294	67	5592	201
99	5615	297	71	5585	213
--	--	--	72	5632	216
--	--	--	74	5533	222
--	--	--	75	5492	225
--	--	--	78	5631	234
--	--	--	79	5584	237

--	--	--	80	5557	240
--	--	--	83	5526	249
--	--	--	84	5522	252
--	--	--	85	5598	255
--	--	--	86	5499	258
--	--	--	89	5594	267
--	--	--	91	5538	273
--	--	--	94	5600	282
--	--	--	99	5551	297
--	--	--	100	5510	300

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5501	3	2	5597	6
3	5574	9	4	5533	12
8	5638	24	6	5588	18
10	5496	30	8	5523	24
11	5637	33	9	5627	27
12	5636	36	12	5578	36
16	5491	48	15	5561	45
17	5622	51	17	5635	51
19	5502	57	19	5609	57
23	5495	69	26	5567	78
26	5521	78	27	5490	81
31	5621	93	28	5599	84
34	5643	102	29	5524	87
39	5564	117	32	5606	96
41	5578	123	39	5496	117
43	5512	129	42	5559	126
44	5518	132	44	5638	132
48	5618	144	59	5497	177
51	5508	153	61	5563	183
54	5648	162	62	5498	186
59	5572	177	63	5598	189
60	5529	180	65	5644	195
69	5497	207	66	5594	198
71	5577	213	72	5641	216
74	5493	222	75	5608	225
75	5604	225	77	5529	231
76	5603	228	78	5542	234
80	5533	240	79	5494	237
82	5576	246	80	5636	240
84	5517	252	83	5611	249
88	5503	264	88	5614	264
90	5566	270	93	5511	279
93	5640	279	96	5573	288
--	--	--	97	5565	291

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
8	5638	24	1	5528	3
11	5528	33	4	5587	12
12	5635	36	5	5544	15
13	5614	39	6	5595	18
14	5618	42	7	5591	21
15	5510	45	11	5534	33
16	5522	48	12	5493	36
21	5527	63	15	5600	45
23	5548	69	18	5593	54
25	5538	75	19	5511	57
43	5504	129	24	5596	72
45	5644	135	28	5611	84
47	5646	141	29	5556	87
48	5540	144	37	5543	111
50	5530	150	40	5620	120
52	5551	156	41	5532	123
54	5509	162	46	5594	138
56	5649	168	47	5490	141
61	5519	183	49	5642	147
63	5556	189	51	5537	153
64	5553	192	61	5533	183
65	5610	195	62	5605	186
75	5637	225	63	5588	189
79	5631	237	69	5561	207
80	5626	240	71	5599	213
82	5500	246	72	5648	216
83	5591	249	76	5633	228
85	5562	255	81	5580	243
87	5536	261	83	5650	249
88	5642	264	85	5627	255
91	5492	273	86	5606	258
92	5532	276	88	5571	264
94	5607	282	89	5552	267
--	--	--	90	5553	270

--	--	--	91	5514	273
--	--	--	96	5545	288
--	--	--	97	5518	291
--	--	--	100	5520	300

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5525	3	2	5491	6
5	5555	15	8	5497	24
9	5577	27	15	5605	45
12	5637	36	16	5551	48
13	5499	39	17	5586	51
14	5496	42	19	5577	57
18	5550	54	21	5496	63
22	5640	66	22	5550	66
28	5506	84	24	5622	72
33	5533	99	26	5594	78
37	5604	111	34	5608	102
41	5620	123	37	5554	111
44	5643	132	38	5636	114
45	5543	135	41	5585	123
46	5599	138	42	5568	126
48	5628	144	45	5625	135
51	5508	153	49	5523	147
54	5578	162	50	5648	150
55	5596	165	56	5492	168
62	5534	186	73	5621	219
63	5600	189	74	5644	222
64	5505	192	75	5519	225
69	5551	207	78	5592	234
70	5553	210	80	5603	240
74	5493	222	83	5587	249
75	5622	225	85	5525	255
76	5504	228	92	5540	276
77	5540	231	96	5493	288
78	5608	234	97	5542	291

85	5490	255	100	5528	300
86	5617	258	--	--	--
87	5609	261	--	--	--
88	5564	264	--	--	--
93	5644	279	--	--	--
95	5574	285	--	--	--
99	5497	297	--	--	--
100	5627	300	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5567	3	3	5587	9
2	5617	6	8	5643	24
4	5539	12	12	5504	36
11	5509	33	17	5640	51
12	5490	36	22	5569	66
15	5562	45	23	5574	69
16	5572	48	30	5517	90
21	5549	63	31	5512	93
22	5613	66	38	5543	114
24	5646	72	41	5589	123
28	5519	84	45	5496	135
33	5623	99	49	5582	147
36	5624	108	52	5615	156
38	5643	114	57	5546	171
39	5590	117	58	5573	174
41	5650	123	60	5505	180
42	5645	126	61	5580	183
44	5616	132	62	5613	186
48	5491	144	68	5491	204
52	5511	156	69	5575	207
55	5578	165	72	5556	216
58	5500	174	73	5494	219
61	5517	183	74	5618	222
62	5610	186	76	5628	228
66	5503	198	78	5535	234

70	5638	210	79	5639	237
72	5520	216	80	5626	240
73	5621	219	87	5612	261
76	5612	228	88	5641	264
77	5630	231	92	5646	276
82	5536	246	93	5629	279
84	5588	252	97	5611	291
86	5518	258	100	5534	300
97	5603	291	--	--	--
98	5510	294	--	--	--

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5636	9	8	5544	24
4	5578	12	9	5646	27
6	5502	18	10	5612	30
7	5583	21	11	5543	33
8	5525	24	13	5650	39
9	5511	27	14	5550	42
15	5626	45	15	5629	45
19	5611	57	16	5526	48
20	5493	60	18	5541	54
23	5619	69	25	5513	75
27	5612	81	29	5643	87
28	5623	84	35	5574	105
36	5500	108	36	5498	108
40	5546	120	38	5517	114
46	5561	138	39	5566	117
48	5542	144	42	5539	126
53	5582	159	45	5613	135
54	5600	162	47	5611	141
60	5565	180	48	5606	144
62	5506	186	53	5587	159
63	5573	189	54	5563	162
65	5602	195	58	5636	174
67	5559	201	59	5647	177

71	5637	213	63	5524	189
74	5549	222	64	5642	192
76	5579	228	69	5538	207
77	5539	231	71	5585	213
78	5617	234	72	5630	216
79	5497	237	74	5525	222
81	5599	243	75	5577	225
88	5574	264	76	5510	228
90	5490	270	78	5621	234
91	5631	273	81	5633	243
93	5598	279	84	5531	252
95	5503	285	87	5511	261
96	5507	288	89	5518	267
99	5588	297	90	5572	270
--	--	--	91	5536	273
--	--	--	100	5492	300

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5528	6	8	5626	24
3	5647	9	10	5602	30
5	5626	15	14	5638	42
9	5646	27	15	5627	45
10	5596	30	18	5631	54
18	5514	54	23	5579	69
19	5621	57	24	5507	72
22	5563	66	29	5536	87
25	5619	75	34	5565	102
28	5507	84	35	5621	105
30	5593	90	37	5512	111
33	5496	99	38	5609	114
38	5545	114	43	5624	129
51	5567	153	44	5617	132
58	5536	174	47	5590	141
61	5570	183	48	5571	144
66	5498	198	49	5534	147
68	5508	204	50	5533	150
72	5497	216	51	5567	153
76	5500	228	53	5552	159
79	5643	237	58	5628	174
80	5589	240	59	5524	177
87	5644	261	61	5540	183
88	5565	264	63	5616	189
89	5542	267	64	5619	192
92	5623	276	65	5596	195
95	5633	285	67	5495	201
96	5591	288	71	5612	213
97	5569	291	76	5515	228
99	5512	297	82	5497	246
--	--	--	87	5549	261

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5519	9	1	5534	3
6	5604	18	4	5537	12
8	5543	24	5	5558	15
9	5534	27	7	5548	21
17	5622	51	8	5583	24
18	5547	54	12	5529	36
19	5593	57	14	5523	42
34	5603	102	19	5539	57
36	5527	108	20	5562	60
37	5579	111	21	5592	63
39	5542	117	28	5540	84
40	5523	120	31	5490	93
41	5535	123	37	5647	111
42	5585	126	39	5502	117
43	5608	129	40	5577	120
45	5646	135	42	5596	126
46	5599	138	45	5595	135
50	5548	150	47	5604	141
52	5496	156	51	5587	153
53	5576	159	52	5522	156
55	5584	165	53	5579	159
60	5644	180	55	5642	165
62	5504	186	64	5622	192
74	5636	222	66	5620	198
75	5642	225	73	5582	219
78	5513	234	76	5615	228
79	5645	237	79	5578	237
83	5537	249	80	5571	240
87	5618	261	81	5581	243
91	5638	273	89	5634	267
92	5575	276	92	5555	276
93	5648	279	93	5508	279
94	5560	282	95	5563	285
96	5501	288	99	5554	297

98	5594	294	100	5553	300
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Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
2	5612	6	1	5539	3
8	5622	24	3	5633	9
12	5645	36	5	5511	15
13	5524	39	6	5600	18
16	5509	48	9	5643	27
19	5575	57	13	5646	39
26	5536	78	18	5598	54
28	5535	84	25	5642	75
34	5609	102	40	5497	120
35	5649	105	41	5521	123
37	5621	111	45	5616	135
39	5517	117	47	5496	141
41	5516	123	48	5631	144
44	5584	132	49	5625	147
47	5512	141	53	5648	159
51	5588	153	57	5544	171
53	5617	159	62	5530	186
56	5580	168	64	5649	192
57	5549	171	69	5575	207
58	5635	174	70	5615	210
59	5610	177	72	5512	216
61	5650	183	74	5548	222
62	5569	186	76	5506	228
64	5603	192	78	5645	234
66	5531	198	82	5644	246
69	5629	207	85	5640	255
71	5511	213	89	5572	267
73	5605	219	90	5635	270
76	5627	228	93	5531	279
77	5538	231	94	5607	282
80	5504	240	98	5619	294
81	5563	243	--	--	--
82	5624	246	--	--	--
85	5648	255	--	--	--

88	5583	264	--	--	--
93	5557	279	--	--	--
94	5560	282	--	--	--
96	5507	288	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5631	3	6	5519	18
2	5520	6	7	5610	21
3	5549	9	8	5540	24
5	5591	15	10	5616	30
7	5645	21	12	5579	36
8	5507	24	16	5596	48
9	5493	27	21	5642	63
12	5548	36	23	5641	69
13	5524	39	24	5564	72
16	5625	48	25	5619	75
18	5629	54	27	5603	81
21	5503	63	28	5538	84
24	5595	72	35	5522	105
26	5617	78	37	5527	111
33	5647	99	38	5592	114
35	5606	105	44	5604	132
37	5604	111	49	5516	147
38	5509	114	52	5613	156
41	5573	123	57	5637	171
43	5575	129	58	5638	174
49	5603	147	60	5496	180
51	5599	153	61	5497	183
52	5587	156	62	5557	186
53	5552	159	64	5646	192
56	5545	168	65	5498	195
59	5535	177	67	5621	201
60	5554	180	70	5645	210
67	5494	201	72	5505	216
68	5568	204	73	5561	219
74	5551	222	74	5528	222
77	5527	231	80	5566	240
84	5537	252	81	5539	243
87	5623	261	86	5556	258
88	5499	264	87	5569	261

92	5495	276	88	5586	264
99	5646	297	89	5573	267
--	--	--	95	5501	285
--	--	--	99	5612	297
--	--	--	100	5559	300

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5535	3	1	5576	3
2	5513	6	3	5609	9
3	5556	9	5	5639	15
6	5619	18	7	5563	21
8	5523	24	8	5493	24
13	5497	39	9	5614	27
14	5590	42	14	5495	42
15	5554	45	15	5542	45
17	5588	51	24	5491	72
18	5622	54	26	5647	78
19	5529	57	31	5502	93
20	5557	60	34	5594	102
24	5522	72	36	5600	108
25	5496	75	39	5565	117
29	5589	87	42	5603	126
37	5503	111	44	5558	132
40	5603	120	50	5595	150
41	5540	123	55	5539	165
43	5552	129	60	5553	180
46	5624	138	63	5549	189
49	5559	147	65	5621	195
51	5614	153	67	5635	201
52	5584	156	68	5638	204
55	5650	165	73	5532	219
60	5543	180	76	5637	228
62	5574	186	77	5536	231
63	5626	189	83	5533	249
67	5581	201	90	5564	270
68	5635	204	91	5541	273
71	5596	213	94	5525	282
74	5605	222	96	5559	288
76	5645	228	99	5546	297
78	5579	234	--	--	--
82	5646	246	--	--	--

84	5649	252	--	--	--
87	5629	261	--	--	--
89	5623	267	--	--	--
93	5583	279	--	--	--
98	5545	294	--	--	--

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
13	5514	39	1	5604	3
16	5520	48	3	5515	9
19	5497	57	7	5591	21
21	5568	63	12	5640	36
29	5604	87	14	5641	42
30	5543	90	18	5630	54
31	5508	93	20	5569	60
36	5544	108	27	5619	81
37	5542	111	32	5648	96
41	5611	123	33	5617	99
42	5535	126	35	5537	105
43	5620	129	39	5547	117
44	5553	132	44	5533	132
48	5631	144	46	5501	138
56	5571	168	52	5646	156
57	5638	171	54	5555	162
61	5647	183	55	5499	165
63	5608	189	58	5546	174
64	5528	192	59	5613	177
65	5538	195	62	5512	186
67	5639	201	65	5510	195
68	5524	204	66	5544	198
69	5624	207	68	5592	204
82	5641	246	70	5545	210
83	5559	249	71	5642	213
84	5533	252	74	5612	222
86	5644	258	77	5623	231
87	5582	261	80	5562	240
90	5516	270	81	5577	243
100	5530	300	83	5535	249
--	--	--	84	5530	252
--	--	--	96	5502	288

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
3	5614	9	2	5535	6
5	5528	15	3	5529	9
7	5605	21	5	5498	15
12	5587	36	6	5492	18
16	5600	48	12	5513	36
17	5649	51	20	5572	60
18	5639	54	21	5621	63
20	5597	60	25	5497	75
21	5511	63	29	5567	87
23	5490	69	32	5516	96
27	5521	81	34	5544	102
29	5629	87	39	5580	117
30	5572	90	40	5635	120
35	5514	105	44	5608	132
37	5515	111	45	5532	135
39	5588	117	46	5512	138
44	5501	132	47	5575	141
47	5609	141	48	5561	144
53	5612	159	53	5550	159
56	5593	168	56	5508	168
57	5492	171	58	5538	174
58	5506	174	60	5611	180
62	5633	186	61	5501	183
63	5553	189	66	5551	198
66	5574	198	68	5612	204
67	5518	201	72	5547	216
68	5619	204	74	5545	222
71	5532	213	77	5609	231
72	5545	216	81	5494	243
78	5505	234	82	5642	246
81	5507	243	91	5647	273
82	5519	246	93	5576	279
83	5522	249	95	5619	285
85	5555	255	98	5600	294

90	5590	270	--	--	--
91	5584	273	--	--	--
92	5607	276	--	--	--
95	5586	285	--	--	--
100	5611	300	--	--	--

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5595	3	3	5609	9
2	5578	6	6	5543	18
3	5528	9	9	5613	27
5	5493	15	10	5582	30
8	5548	24	17	5510	51
16	5605	48	18	5557	54
21	5526	63	21	5593	63
23	5576	69	23	5639	69
25	5619	75	24	5520	72
28	5623	84	27	5515	81
29	5592	87	35	5610	105
34	5511	102	36	5551	108
38	5563	114	38	5646	114
46	5628	138	39	5516	117
48	5614	144	43	5555	129
49	5577	147	49	5554	147
51	5639	153	51	5567	153
52	5587	156	52	5560	156
53	5506	159	53	5500	159
57	5523	171	54	5522	162
60	5596	180	58	5509	174
64	5553	192	62	5633	186
65	5501	195	63	5570	189
68	5645	204	67	5603	201
74	5555	222	68	5617	204
77	5522	231	70	5514	210
80	5534	240	72	5576	216
81	5533	243	76	5637	228
84	5530	252	80	5497	240
88	5616	264	81	5598	243
90	5532	270	87	5587	261
92	5490	276	88	5508	264
94	5549	282	89	5496	267
95	5560	285	90	5506	270

97	5569	291	93	5526	279
98	5622	294	94	5589	282
--	--	--	96	5642	288

6. Test Result for Zero-wait

Product	AX5400 Wi-Fi 6 Router	Temperature	27°C
Test Engineer	Kevin Ker	Relative Humidity	65%
Test Site	AC1	Test Date	2020/09/24
Test Item	Radar Statistical Performance Check (802.11ax-HE20 – 5580MHz)		

Radar Type 1 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5580.4	1	818	65	0
2	5580.9	1	838	63	1
3	5581.3	1	938	57	1
4	5582.7	1	758	70	1
5	5583.6	1	678	78	1
6	5584.6	1	778	68	1
7	5585.2	1	858	62	1
8	5586.1	1	698	76	1
9	5587.8	1	578	92	1
10	5588.3	1	518	102	1
11	5589.7	1	738	72	1
12	5579.2	1	798	67	1
13	5579.4	1	918	58	1
14	5578.6	1	718	74	1
15	5577.3	1	558	95	1
16	5576.5	1	2623	21	1
17	5575.7	1	1989	27	1
18	5574.9	1	1681	32	1
19	5573.1	1	2068	26	1
20	5572.2	1	1937	28	1
21	5571.4	1	1109	48	1
22	5571.6	1	1326	40	1
23	5572.8	1	2323	23	1
24	5574.3	1	2904	19	1
25	5577.7	1	1957	27	1
26	5580.2	1	545	97	1



Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
27	5583.1	1	2410	22	1
28	5586.6	1	902	59	1
29	5589.3	1	680	78	1
30	5575.8	1	866	61	1
Detection Percentage (%)					96.7%

Radar Type 2 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5580.4	4.6	176	26	1
2	5580.9	1.1	154	27	1
3	5581.3	2.3	227	28	1
4	5582.7	2.8	219	24	1
5	5583.6	1.5	216	27	1
6	5584.6	1.7	224	26	1
7	5585.2	4.0	230	25	1
8	5586.1	2.1	204	26	1
9	5587.8	1.5	178	28	1
10	5588.3	1.8	220	28	1
11	5589.7	3.0	200	25	1
12	5579.2	3.3	184	24	1
13	5579.4	1.8	152	27	1
14	5578.6	2.0	153	29	1
15	5577.3	1.5	171	25	1
16	5576.5	4.1	190	26	1
17	5575.7	1.7	174	26	1
18	5574.9	1.6	162	25	1
19	5573.1	2.1	152	27	1
20	5572.2	2.7	176	25	1
21	5571.4	3.9	225	24	1
22	5571.6	4.1	225	28	1
23	5572.8	1.1	155	27	1
24	5574.3	3.9	201	25	1
25	5577.7	4.5	198	24	1
26	5580.2	1.4	212	26	1
27	5583.1	4.2	229	25	1
28	5586.6	2.5	181	24	1
29	5589.3	3.6	219	27	1
30	5575.8	4.6	165	27	1
Detection Percentage (%)					100%

Radar Type 3 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5580.4	6.8	436	17	0
2	5580.9	9.2	272	17	1
3	5581.3	6.8	468	17	1
4	5582.7	6.0	224	17	0
5	5583.6	9.0	285	17	1
6	5584.6	6.3	203	17	0
7	5585.2	7.7	280	18	0
8	5586.1	7.9	343	16	1
9	5587.8	9.2	298	17	1
10	5588.3	7.5	297	17	1
11	5589.7	9.8	397	18	1
12	5579.2	6.6	298	16	1
13	5579.4	6.4	217	18	0
14	5578.6	8.3	271	16	1
15	5577.3	9.0	304	16	0
16	5576.5	8.7	240	16	1
17	5575.7	8.0	311	17	1
18	5574.9	8.7	207	17	1
19	5573.1	8.0	435	18	1
20	5572.2	9.0	416	17	1
21	5571.4	9.8	343	16	1
22	5571.6	6.7	289	18	1
23	5572.8	9.7	492	17	1
24	5574.3	7.4	485	17	1
25	5577.7	9.9	389	16	1
26	5580.2	6.0	222	18	1
27	5583.1	8.2	266	17	1
28	5586.6	7.4	240	17	1
29	5589.3	6.4	222	17	1
30	5575.8	6.7	408	16	1
Detection Percentage (%)					80%

Radar Type 4 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	Pulse Width (us)	PRI (us)	Pulses / Burst	1=Detection 0=No Detection
1	5580.4	12.7	387	16	0
2	5580.9	18.4	351	15	1
3	5581.3	18.4	340	15	1
4	5582.7	15.8	333	16	1
5	5583.6	17.6	295	12	0
6	5584.6	12.0	403	15	1
7	5585.2	16.8	230	16	1
8	5586.1	13.5	384	15	1
9	5587.8	15.9	464	14	0
10	5588.3	18.0	284	14	0
11	5589.7	15.0	410	13	1
12	5579.2	11.5	315	15	1
13	5579.4	16.6	433	14	0
14	5578.6	12.7	337	15	1
15	5577.3	12.6	437	13	1
16	5576.5	12.1	485	15	1
17	5575.7	18.3	480	14	1
18	5574.9	18.0	443	16	0
19	5573.1	17.2	232	12	1
20	5572.2	14.2	321	13	0
21	5571.4	20.0	449	14	1
22	5571.6	14.6	395	12	1
23	5572.8	16.8	377	14	1
24	5574.3	13.7	269	13	1
25	5577.7	12.8	353	14	1
26	5580.2	13.9	261	12	1
27	5583.1	18.2	340	15	1
28	5586.6	11.8	205	14	1
29	5589.3	11.6	367	14	1
30	5575.8	15.2	206	15	1
Detection Percentage (%)					76.7%

Note: In addition an average minimum percentage of successful detection across all four Short pulse radar test

waveforms is as follows: $\frac{P_d1 + P_d2 + P_d3 + P_d4}{4} = (96.7\% + 100\% + 80\% + 76.7\%) / 4 = 88.3\% (>80\%)$



Radar Type 5 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5580.0	1	16	5496.0	1
2	5580.0	1	17	5498.0	1
3	5580.0	1	18	5498.0	1
4	5580.0	1	19	5496.8	1
5	5580.0	1	20	5496.4	1
6	5580.0	1	21	5505.2	1
7	5580.0	1	22	5504.8	1
8	5580.0	0	23	5502.8	1
9	5580.0	1	24	5505.6	1
10	5580.0	1	25	5506.8	1
11	5492.8	1	26	5504.0	1
12	5497.2	1	27	5504.8	1
13	5494.8	1	28	5504.4	0
14	5497.6	1	29	5507.6	1
15	5492.4	1	30	5502.4	0
Detection Percentage (%)					90%

Type 5 Radar Waveform_1						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	87.3	18	1877		278.697
2	2	96.7	18	1484		377.917
3	3	78.8	18	1163	1665	661.504
4	1	90.8	18			317.831
5	2	90.9	18	1518		62.499
6	3	80.4	18	1157	1679	739.466
7	3	64.3	18	1080	1481	281.433
8	2	91.8	18	1667		352.7
9	3	59.3	18	1936	1479	347.087
10	2	57.3	18	1890		631.104
11	3	99.1	18	1366	1409	257.421
12	2	67.9	18	1582		444.089
13	1	75.8	18			575.786
14	2	53.7	18	1353		638.843

Type 5 Radar Waveform_2						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	62.6	11	1505	1067	371.896
2	2	96.4	11	1452		194.96
3	3	99.5	11	1789	1091	1010.53
4	2	78.3	11	1617		808.24
5	1	87.3	11			528.42
6	2	74.9	11	1095		306.05
7	3	95.1	11	1643	1073	1143.7
8	3	74	11	1257	1444	787.14
9	2	74.5	11	1742		13.84
10	1	91.2	11			598.2

Type 5 Radar Waveform_3						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	71.5	20	1614	1333	400.328
2	3	65.6	20	1310	1716	745.911
3	1	67	20			673.282
4	2	52.9	20	1198		16.213
5	2	52.8	20	1965		946.664
6	2	65.2	20	1320		1059.305
7	2	85	20	1255		829.525
8	1	51.4	20			520.896
9	3	96.2	20	1992	1411	44.637
10	2	51	20	1725		990.318
11	2	74.5	20	1731		793.009

Type 5 Radar Waveform_4						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	58.5	12			982.363
2	1	79	12			445.207
3	2	98.4	12	1085		470.763
4	1	96	12			981.49
5	2	63.8	12	1403		698.937
6	2	100	12	1410		932.813
7	3	71.8	12	1910	1696	73.37
8	2	64.7	12	1774		1178.367
9	1	97.8	12			366.133

Type 5 Radar Waveform_5

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	92.4	20	1375	1126	633.743
2	2	94.6	20	1052		983.61
3	1	60.9	20			527.83
4	2	90.7	20	1479		54.25
5	2	74.3	20	1642		834.3
6	3	55.6	20	1056	1069	692.96
7	2	61.9	20	1267		119.21
8	3	54.4	20	1717	1578	978.79
9	1	93.3	20			26.63
10	1	96.2	20			968.68
11	3	89.6	20	1465	1091	333.3
12	1	100	20			476.3

Type 5 Radar Waveform_6

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	66.3	16			231.227
2	3	51.7	16	1393	1088	736.981
3	2	84.7	16	1607		636.762
4	1	90.9	16			29.443
5	1	66.8	16			832.574
6	1	96.9	16			1039.235
7	2	94.7	16	1388		837.005
8	2	94.3	16	1556		800.366
9	2	67	16	1953		196.987
10	2	59.9	16	1497		745.318
11	1	93.9	16			909.209

Type 5 Radar Waveform_7

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	70.8	14			405.209
2	2	65.3	14	1433		783.231
3	2	93.2	14	1987		76.172
4	2	88.8	14	1142		636.103
5	2	63.1	14	1882		669.844
6	3	59.4	14	1180	1173	1024.215
7	3	98.7	14	1255	1510	102.705
8	2	79.7	14	1724		385.856
9	2	74.6	14	1526		941.167
10	3	61.4	14	1101	1695	1047.118
11	3	60.7	14	1425	1131	622.509

Type 5 Radar Waveform_8

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 Spacing (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	50.2	17	1051		57.597
2	1	71.2	17			111.08
3	2	83	17	1556		473.09
4	3	53.2	17	1523	1505	36.79
5	3	87.2	17	1950	1589	651.23
6	3	61.3	17	1412	1772	507.74
7	2	77.8	17	1144		832.57
8	2	73.8	17	1202		112.23
9	3	98.3	17	1114	1499	356.22
10	2	85.2	17	1028		269.3
11	3	60.3	17	1003	1400	606.8
12	1	75.1	17			513.9

Type 5 Radar Waveform_9

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	83.3	10	1090		1057.97
2	2	62.6	10	1934		881.431
3	3	52.9	10	1259	1963	592.492
4	3	61.5	10	1804	1390	924.693
5	2	71	10	1744		1077.844
6	1	58.2	10			532.435
7	2	75.7	10	1710		66.235
8	2	55.3	10	1354		992.856
9	3	97.5	10	1106	1929	532.427
10	3	69.2	10	1509	1011	977.818
11	3	61.7	10	1394	1815	452.609

Type 5 Radar Waveform_10

Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	66	16	1486	1736	398.093
2	3	90.5	16	1384	1554	368.75
3	2	85	16	1381		1174.97
4	1	60.6	16			1012.09
5	1	95.5	16			63.57
6	3	96.1	16	1053	1678	1000.58
7	3	98.8	16	1442	1466	552.77
8	1	60.3	16			972.15
9	2	70.3	16	1424		766.2
10	3	98.1	16	1738	1123	1032.3

Type 5 Radar Waveform_11						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	89	6			362.541
2	1	86.3	6			233.193
3	2	84.5	6	1167		172.255
4	2	53.6	6	1731		645.923
5	2	55.2	6	1011		677.391
6	2	89.9	6	1730		211.348
7	2	58.5	6	1130		673.096
8	1	83.9	6			313.094
9	3	91.3	6	1037	1649	669.741
10	2	92	6	1741		394.089
11	2	57.6	6	1533		41.096
12	3	92.1	6	1537	1319	260.664
13	1	73	6			385.902
14	1	77.4	6			76.239
15	1	67.7	6			231.147
16	1	73.8	6			93.465
17	2	50.7	6	1863		482.282

Type 5 Radar Waveform_12						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	60.6	17	1345		54.37
2	2	57.1	17	1602		319.59
3	2	63.3	17	1338		1052.22
4	1	90.2	17			628.06
5	2	95	17	1569		540.36
6	1	57.9	17			75.16
7	3	60.4	17	1968	1117	1102.8
8	2	84.1	17	1623		753.2

Type 5 Radar Waveform_13						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	96.3	11			377.736
2	3	65.3	11	1954	1401	119.601
3	2	78	11	1144		22.177
4	3	97.8	11	1026	1784	54.19
5	2	76.5	11	1928		212.003
6	1	56.2	11			542.577
7	2	84.3	11	1574		139.47
8	1	81.3	11			121.173
9	1	97.5	11			165.967
10	2	91.8	11	1839		595.95
11	2	65.7	11	1914		516.253
12	3	66.4	11	1076	1648	601.877
13	3	89.5	11	1034	1249	236.17
14	2	51.5	11	1410		128.273
15	2	93.2	11	1301		304.157
16	3	88.1	11	1450	1367	590
17	1	62.9	11			78.933
18	3	73.5	11	1948	1507	184.467

Type 5 Radar Waveform_14						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	84.2	18			120.416
2	2	86.1	18	1681		210.401
3	1	62.3	18			383.222
4	3	71.2	18	1721	1299	487.393
5	1	99.9	18			248.574
6	2	99.5	18	1901		331.095
7	2	71.4	18	1760		212.695
8	2	72.2	18	1738		18.706
9	2	56.6	18	1756		315.557
10	1	92.9	18			927.518
11	2	59.5	18	1523		354.209

Type 5 Radar Waveform_15						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	61.9	5	1398		586.736
2	1	68.4	5			506.25
3	2	76.4	5	1457		773.45
4	2	60.3	5	1877		471.14
5	2	54.8	5	1099		632.45
6	2	86	5	1671		259.96
7	2	75	5	1504		182.8
8	1	93.2	5			689.16
9	1	80.6	5			729.21
10	1	85.9	5			253.28
11	1	62.7	5			516.59
12	1	73.3	5			425.76
13	2	61.4	5	1222		746.4
14	2	62.3	5	1825		203.2
15	1	85.1	5			328.8

Type 5 Radar Waveform_16						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	64.7	14			540.719
2	1	71.4	14			34.591
3	3	99.3	14	1319	1444	524.634
4	2	62.3	14	1478		771.531
5	3	71.7	14	1378	1509	182.929
6	1	66.8	14			738.406
7	2	58.2	14	1094		584.923
8	1	91.6	14			736.69
9	2	51.9	14	1615		454.687
10	1	51.4	14			738.314
11	2	60.6	14	1164		598.481
12	2	56.6	14	1413		617.929
13	1	84.3	14			442.786
14	2	69.8	14	1447		537.143

Type 5 Radar Waveform_17						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	50.4	19	1496	1263	163.965
2	2	89.9	19	1596		1314.887
3	2	88	19	1803		585.323
4	2	84	19	1580		1116.89
5	2	76.5	19	1648		275.107
6	2	88.1	19	1570		78.573
7	3	72.7	19	1659	1937	1119.88
8	2	93.8	19	1329		913.067
9	2	71.1	19	1501		712.733

Type 5 Radar Waveform_18						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	52.4	19	1047		153.672
2	2	88.3	19	1697		215.643
3	1	65.3	19			906.946
4	2	71.2	19	1852		344.729
5	1	90.8	19			742.772
6	3	68.9	19	1996	1933	747.615
7	2	71.3	19	1822		263.958
8	2	94.3	19	1743		189.322
9	2	99.7	19	1049		596.615
10	3	57.6	19	1657	1947	323.218
11	3	52.2	19	1107	1784	823.831
12	1	86.1	19			540.154
13	2	66.2	19	1578		213.377

Type 5 Radar Waveform_19						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	85.4	16	1646	1267	1362.24
2	1	64.9	16			1209.47
3	2	73	16	1271		364.61
4	2	53.8	16	1097		313.17
5	1	99.7	16			238.26
6	2	97.3	16	1849		1023.78
7	1	68.5	16			602.26
8	2	63.7	16	1981		151

Type 5 Radar Waveform_20						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	1	52.7	15			827.971
2	2	93.6	15	1004		816.03
3	3	62.3	15	1258	1600	800.11
4	1	70.5	15			886.44
5	2	99	15	1871		864.23
6	2	66.8	15	1421		804.17
7	1	54.5	15			192.61
8	2	57.3	15	1896		109.66
9	1	66.1	15			83.04
10	2	98.6	15	1320		281.4

Type 5 Radar Waveform_21						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	99	11	1498	1640	421.127
2	1	94.7	11			552.83
3	1	97.3	11			13.99
4	2	79.7	11	1928		536.03
5	3	78.4	11	1802	1839	70.17
6	2	72.4	11	1821		120.58
7	2	59.4	11	1017		322.94
8	1	99.5	11			39.01
9	2	85.5	11	1349		142.36
10	2	85.7	11	1553		414.81
11	2	58.3	11	1502		158.68
12	2	51.8	11	1384		187.67
13	2	67.6	11	1052		408.15
14	2	85.5	11	1694		711.7
15	2	65.4	11	1940		450.5
16	2	81.2	11	1082		733.3

Type 5 Radar Waveform_22						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	65.4	12	1368	1807	761.099
2	3	55.1	12	1783	1180	544.621
3	1	62.6	12			541.202
4	2	67.9	12	1552		656.693
5	2	51	12	1920		457.344
6	3	58.6	12	1864	1264	987.505
7	2	79.9	12	1643		530.925
8	2	78.6	12	1718		697.836
9	1	94.4	12			603.597
10	1	59.9	12			633.118
11	2	68.2	12	1095		252.709

Type 5 Radar Waveform_23						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	73.9	17	1584		600.504
2	1	64.6	17			570.27
3	2	53.8	17	1176		871.6
4	2	85.3	17	1551		818.44
5	1	58.4	17			874.59
6	3	74.7	17	1950	1762	53.45
7	2	82.7	17	1743		418.55
8	2	95.8	17	1521		970.38
9	1	72.3	17			39.81
10	2	82.4	17	1020		401.23
11	2	50.4	17	1008		567.1
12	3	98.4	17	1066	1617	1.2

Type 5 Radar Waveform_24						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	84	10	1234		453.546
2	2	57.8	10	1032		528.48
3	2	85.4	10	1636		550.63
4	2	86	10	1276		724.66
5	2	81.3	10	1286		565.04
6	2	100	10	1866		703.08
7	3	57.9	10	1360	1155	793.2
8	3	84.5	10	1984	1560	727.52
9	1	80.9	10			424.37
10	3	53.2	10	1746	1942	556.72
11	2	61.8	10	1391		52.43
12	1	85.6	10			491.24
13	1	86.7	10			303.29
14	2	61.7	10	1026		579.1
15	1	92.1	10			274.5

Type 5 Radar Waveform_25						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	61.9	7	1265		98.818
2	1	59.7	7			284.107
3	2	58.2	7	1485		274.894
4	3	74.9	7	1468	1419	269.171
5	2	51.7	7	1220		247.539
6	2	57	7	1065		439.576
7	3	66.3	7	1804	1860	497.033
8	3	63.3	7	1494	1850	735.51
9	1	71.1	7			470.417
10	2	99.1	7	1650		80.384
11	1	55.7	7			29.701
12	2	69.6	7	1079		231.599
13	2	96	7	1538		521.586
14	2	75.8	7	1429		483.043

Type 5 Radar Waveform_26						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	73.8	14	1121		586.54
2	2	68	14	1933		19.551
3	2	95.1	14	1746		725.356
4	2	76.2	14	1621		616.729
5	1	51	14			468.802
6	1	54.4	14			749.685
7	1	81.3	14			554.538
8	2	59.6	14	1292		151.032
9	2	67.3	14	1909		650.055
10	2	55.1	14	1177		5.838
11	2	91.8	14	1677		794.831
12	1	59.9	14			820.154
13	1	71.6	14			899.977

Type 5 Radar Waveform_27						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	3	96.7	12	1154	1153	62.095
2	2	81.9	12	1668		484.088
3	1	95.1	12			34.015
4	2	68.5	12	1836		393.353
5	2	68.4	12	1172		196.181
6	1	59.4	12			439.558
7	3	99.7	12	1030	1839	269.676
8	2	96.5	12	1655		31.844
9	3	53.6	12	1779	1134	691.601
10	2	52.6	12	1708		579.409
11	2	77	12	1103		356.636
12	3	91.4	12	1278	1334	456.554
13	3	93.5	12	1626	1242	643.012
14	2	75.2	12	1108		664.509
15	3	71.2	12	1491	1670	124.247
16	3	76.9	12	1075	1119	436.365
17	1	62.4	12			328.682

Type 5 Radar Waveform_28						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	80.4	13	1902		12.03
2	1	74.4	13			1109.88
3	2	89.7	13	1790		153.62
4	3	99.4	13	1081	1950	273.78
5	2	58.7	13	1047		252.07
6	1	80	13			920.2
7	2	51.9	13	1215		618.23
8	1	74.1	13			1007.78
9	1	81.6	13			215.97
10	2	54.1	13	1848		20.9

Type 5 Radar Waveform_29						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	97.3	5	1813		893.324
2	1	93.5	5			464.687
3	3	79.1	5	1002	1127	422.313
4	1	67.8	5			709.86
5	2	92.9	5	1111		646.607
6	2	84.3	5	1403		504.683
7	2	71.4	5	1769		555.28
8	2	90.1	5	1866		377.077
9	1	90.9	5			204.633

Type 5 Radar Waveform_30						
Burst	Number of Pulses	Pulse Width (μ sec)	Chirp Width (MHz)	Pulse 1-to-2 PRI (μ sec)	Pulse 2-to-3 PRI (μ sec)	Start Location Within Interval (msec)
1	2	91.4	18	1427		308.541
2	2	96.1	18	1892		83.971
3	1	63.2	18			259.01
4	2	56.9	18	1904		355.37
5	1	92.6	18			314.24
6	2	88.3	18	1679		165.25
7	2	63.1	18	1798		232.71
8	2	53.1	18	1036		575.96
9	1	82.3	18			319.34
10	2	70.3	18	1738		728.57
11	1	55.7	18			368.92
12	1	60.8	18			154.79
13	1	91.1	18			449.6
14	1	55	18			360
15	3	78.7	18	1414	1420	663.4
16	2	65.6	18	1945		235.7

Radar Type 6 - Radar Statistical Performance

Trail #	Test Freq. (MHz)	1=Detection 0=No Detection	Trail #	Test Freq. (MHz)	1=Detection 0=No Detection
1	5580.4	1	16	5576.5	1
2	5580.9	1	17	5575.7	1
3	5581.3	1	18	5574.9	1
4	5582.7	1	19	5573.1	1
5	5583.6	1	20	5572.2	1
6	5584.6	1	21	5571.4	1
7	5585.2	1	22	5571.6	1
8	5586.1	1	23	5572.8	1
9	5587.8	1	24	5574.3	1
10	5588.3	1	25	5577.7	1
11	5589.7	1	26	5580.2	1
12	5579.2	1	27	5583.1	1
13	5579.4	1	28	5586.6	1
14	5578.6	1	29	5589.3	1
15	5577.3	1	30	5575.8	1
Detection Percentage (%)					100%

Radar waveform #1			Radar waveform #2		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
15	5521	45	16	5539	48
42	5529	126	41	5522	123
44	5525	132	64	5531	192
61	5536	183	78	5523	234
100	5540	300	--	--	--

Radar waveform #3			Radar waveform #4		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5530	21	6	5532	18
93	5539	279	34	5537	102
--	--	--	64	5534	192
--	--	--	80	5525	240

Radar waveform #5			Radar waveform #6		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
18	5525	54	28	5536	84
47	5523	141	55	5520	165
49	5521	147	85	5525	255
92	5533	276	93	5537	279

Radar waveform #7			Radar waveform #8		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
16	5526	48	12	5530	36
42	5528	126	19	5528	57
57	5534	171	55	5529	165
74	5530	222	76	5539	228
81	5535	243	90	5532	270
87	5538	261	--	--	--

Radar waveform #9			Radar waveform #10		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
19	5534	57	90	5528	270
22	5523	66	100	5527	300
45	5529	135	--	--	--
79	5520	237	--	--	--
87	5530	261	--	--	--

Radar waveform #11			Radar waveform #12		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Frequency (MHz)	Hopping Number	Pulse Start (ms)
3	5526	9	36	5524	108
14	5529	42	56	5532	168
57	5520	171	82	5530	246

Radar waveform #13			Radar waveform #14		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
22	5536	66	7	5525	21
25	5539	75	13	5539	39
34	5529	102	24	5522	72
51	5535	153	28	5521	84
71	5525	213	71	5524	213

Radar waveform #15			Radar waveform #16		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
7	5527	21	24	5523	72
40	5523	120	30	5536	90
62	5522	186	39	5529	117
67	5539	201	90	5538	270
88	5525	264	--	--	--
89	5531	267	--	--	--

Radar waveform #17			Radar waveform #18		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
14	5521	42	60	5531	180
31	5525	93	96	5520	288
88	5533	264	--	--	--

Radar waveform #19			Radar waveform #20		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
30	5528	90	5	5528	15
32	5536	96	23	5525	69
43	5537	129	26	5535	78
66	5524	198	53	5534	159
67	5534	201	62	5536	186
81	5526	243	--	--	--

Radar waveform #21			Radar waveform #22		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
6	5521	18	38	5528	114
7	5537	21	52	5532	156
8	5522	24	81	5526	243
36	5527	108	--	--	--
53	5528	159	--	--	--
63	5535	189	--	--	--
67	5532	201	--	--	--
70	5525	210	--	--	--
80	5520	240	--	--	--

Radar waveform #23			Radar waveform #24		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5534	3	1	5531	3
55	5524	165	4	5528	12
--	--	--	15	5538	45
--	--	--	46	5527	138
--	--	--	62	5534	186
--	--	--	63	5529	189
--	--	--	86	5520	258

Radar waveform #25			Radar waveform #26		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
36	5534	108	1	5532	3
45	5535	135	4	5520	12
58	5524	174	20	5534	60
79	5532	237	38	5523	114
--	--	--	61	5524	183
--	--	--	88	5529	264
--	--	--	94	5522	282

Radar waveform #27			Radar waveform #28		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
1	5540	3	8	5523	24
23	5535	69	22	5535	66
53	5520	159	49	5522	147
--	--	--	82	5524	246
--	--	--	99	5526	297

Radar waveform #29			Radar waveform #30		
Hopping Number	Frequency (MHz)	Pulse Start (ms)	Hopping Number	Frequency (MHz)	Pulse Start (ms)
47	5540	141	9	5536	27
62	5522	186	11	5531	33
95	5526	285	27	5522	81
--	--	--	43	5521	129

7. 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 "2010TW0003-UT" file.

Appendix B - EUT Photograph

Refer to “ 2010TW0003-UE” file.