V. Appendix A

802.11n 20MHz

New3RandParmBin5.txt

Random DFS waveform parameters (NewBin5)

Waveform Num =   1
Num of Bursts = 18
Burst Interval (us) =   666667.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	457425	3	6.0	90	1946	1551	1060	457425	0	666666
2	783558	1	6.0	70	1290	0	0	1245540	666667	1333333
3	324209	2	16.0	95	1229	1042	0	1571039	1333334	2000000
4	1030285	1	7.0	76	1047	0	0	2603595	2000001	2666667
5	279009	1	12.0	82	1269	0	0	2883651	2666668	3333334
6	1047569	3	19.0	83	1449	1931	1373	3932489	3333335	4000001
7	427118	1	18.0	95	1469	0	0	4364360	4000002	4666668
8	574664	1	19.0	63	1456	0	0	4940493	4666669	5333335
9	746052	1	16.0	92	1533	0	0	5688001	5333336	6000002
10	387067	1	18.0	82	1438	0	0	6076601	6000003	6666669
11	960085	1	13.0	91	1164	0	0	7038124	6666670	7333336
12	413570	3	5.0	57	1621	1011	1911	7452858	7333337	8000003
13	777748	3	19.0	60	1742	1705	1425	8235149	8000004	8666670
14	652230	2	13.0	66	1729	1569	0	8892251	8666671	9333337
15	591174	2	5.0	90	1037	1550	0	9486723	9333338	10000004
16	1158922	3	7.0	66	1812	1927	1369	10648232	10000005	10666671
17	490012	3	13.0	56	1819	1271	1100	11143352	10666672	11333338
18	275139	3	15.0	59	1161	1858	1214	11422681	11333339	12000005

Total number of pulses in waveform = 35

Waveform Num =   2
Num of Bursts = 14

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New3RandParmBin5.txt

Burst Interval (us) =   857143.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	567555	3	17.0	51	1077	1972	1158	567555	0	857142
2	332798	3	9.0	74	1902	1117	1567	904560	857143	1714285
3	1149557	3	10.0	73	1067	1103	1080	2058703	1714286	2571428
4	1289643	1	17.0	62	1963	0	0	3351596	2571429	3428571
5	614299	1	13.0	86	1122	0	0	3967858	3428572	4285714
6	454116	2	11.0	57	1719	1668	0	4423096	4285715	5142857
7	917485	1	7.0	56	1902	0	0	5343968	5142858	6000000
8	1020163	2	12.0	58	1072	1610	0	6366033	6000001	6857143
9	1072968	1	10.0	51	1520	0	0	7441683	6857144	7714286
10	307274	3	17.0	91	1065	1108	1019	7750477	7714287	8571429
11	1246272	3	15.0	58	1333	1518	1587	8999941	8571430	9428572
12	856763	1	16.0	96	1739	0	0	9861142	9428573	10285715
13	496767	3	7.0	89	1195	1177	1854	10359648	10285716	11142858
14	1566339	2	17.0	93	1023	1911	0	11930213	11142859	12000001

Total number of pulses in waveform = 29

Waveform Num =   3
Num of Bursts =   9
Burst Interval (us) = 1333333.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	1206830	2	12.0	65	1968	1677	0	1206830	0	1333332
2	667887	1	7.0	86	1679	0	0	1878362	1333333	2666665
3	1684952	2	19.0	63	1393	1582	0	3564993	2666666	3999998
4	844347	3	12.0	54	1278	1006	1309	4412315	3999999	5333331

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	1291674									
5		1	14.0	61	1907	0	0	5707582	5333332	6666664
	2159002									
6		1	20.0	65	1538	0	0	7868491	6666665	7999997
	1184430									
7		1	15.0	71	1301	0	0	9054459	7999998	9333330
	326546									
8		2	18.0	80	1370	1765	0	9382306	9333331	10666663
	1906149									
9		2	6.0	55	1149	1678	0	11291590	10666664	11999996

Total number of pulses in waveform = 15

Waveform Num =   4
Num of Bursts = 20
Burst Interval (us) =   600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	166201									
1		2	17.0	95	1547	1778	0	166201	0	599999
	442970									
2		3	10.0	63	1615	1773	1441	612496	600000	1199999
	787396									
3		3	16.0	83	1037	1160	1527	1404721	1200000	1799999
	575472									
4		3	17.0	97	1018	1142	1796	1983917	1800000	2399999
	561627									
5		2	10.0	96	1310	1400	0	2549500	2400000	2999999
	702122									
6		3	10.0	100	1908	1893	1116	3254332	3000000	3599999
	743901									
7		2	20.0	83	1477	1362	0	4003150	3600000	4199999
	321666									
8		2	19.0	50	1807	1044	0	4327655	4200000	4799999
	655441									
9		2	9.0	74	1047	1823	0	4985947	4800000	5399999
	913742									
10		2	7.0	71	1971	1408	0	5902559	5400000	5999999
	519413									
11		2	7.0	55	1718	1118	0	6425351	6000000	6599999
	553326									
12		1	18.0	91	1758	0	0	6981513	6600000	7199999
	675997									
13		2	12.0	62	1722	1623	0	7659268	7200000	7799999
	151118									
14		1	5.0	51	1167	0	0	7813731	7800000	8399999
	1139799									
15		3	12.0	93	1702	1455	1452	8954697	8400000	8999999

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	611785									
16		1	11.0	86	1343	0	0	9571091	9000000	9599999
	36936									
17		2	13.0	63	1584	1503	0	9609370	9600000	10199999
	1010715									
18		2	8.0	91	1232	1380	0	10623172	10200000	10799999
	515936									
19		3	18.0	69	1441	1473	1103	11141720	10800000	11399999
	375073									
20		3	10.0	79	1092	1414	1950	11520810	11400000	11999999

Total number of pulses in waveform = 44
▯

Waveform Num =   5
Num of Bursts = 11
Burst Interval (us) = 1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	473292									
1		2	10.0	91	1638	1292	0	473292	0	1090908
	1652310									
2		2	19.0	79	1944	1599	0	2128532	1090909	2181817
	1089220									
3		3	13.0	62	1285	1641	1196	3221295	2181818	3272726
	670098									
4		3	9.0	56	1952	1073	1534	3895515	3272727	4363635
	558740									
5		3	15.0	86	1300	1030	1647	4458814	4363636	5454544
	1330498									
6		3	5.0	73	1984	1593	1468	5793289	5454545	6545453
	977327									
7		3	5.0	84	1947	1531	1150	6775661	6545454	7636362
	1732558									
8		1	18.0	88	1397	0	0	8512847	7636363	8727271
	563947									
9		1	6.0	78	1058	0	0	9078191	8727272	9818180
	1305747									
10		1	14.0	90	1905	0	0	10384996	9818181	10909089
	865323									
11		2	16.0	88	1922	1325	0	11252224	10909090	11999998

Total number of pulses in waveform = 24
▯

Waveform Num =   6
Num of Bursts = 11
Burst Interval (us) = 1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	65024	3	5.0	52	1928	1336	1995	65024	0	1090908
2	1556444	1	12.0	93	1015	0	0	1626727	1090909	2181817
3	1620394	2	15.0	80	1440	1716	0	3248136	2181818	3272726
4	375559	1	11.0	86	1759	0	0	3626851	3272727	4363635
5	1376424	2	10.0	78	1149	1767	0	5005034	4363636	5454544
6	659525	3	20.0	89	1930	1838	1327	5667475	5454545	6545453
7	1143172	2	18.0	96	1216	1889	0	6815742	6545454	7636362
8	1660855	1	6.0	97	1910	0	0	8479702	7636363	8727271
9	347377	2	15.0	63	1362	1654	0	8828989	8727272	9818180
10	1232337	1	6.0	67	1239	0	0	10064342	9818181	10909089
11	1030623	1	16.0	53	1040	0	0	11096204	10909090	11999998

Total number of pulses in waveform = 19

Waveform Num = 7
Num of Bursts = 14
Burst Interval (us) = 857143.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	58469	2	6.0	78	1464	1688	0	58469	0	857142
2	818448	3	15.0	69	1071	1891	1019	880069	857143	1714285
3	1593585	3	7.0	72	1569	1000	1533	2477635	1714286	2571428
4	662292	1	6.0	88	1739	0	0	3144029	2571429	3428571
5	601757	2	10.0	100	1510	1046	0	3747525	3428572	4285714
6	1212824	3	7.0	55	1128	1493	1737	4962905	4285715	5142857
7	811311	2	18.0	55	1663	1501	0	5778574	5142858	6000000
8	1024804	1	10.0	78	1167	0	0	6806542	6000001	6857143
9	734024	3	12.0	94	1936	1752	1544	7541733	6857144	7714286

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	946256									
10		1	7.0	100	1856	0	0	8493221	7714287	8571429
	863161									
11		3	16.0	51	1877	1396	1029	9358238	8571430	9428572
	442062									
12		1	8.0	65	1757	0	0	9804602	9428573	10285715
	982044									
13		1	16.0	61	1725	0	0	10788403	10285716	11142858
	805203									
14		1	8.0	79	1400	0	0	11595331	11142859	12000001

Total number of pulses in waveform = 27
⬜

Waveform Num =   8
Num of Bursts =   20
Burst Interval (us) =   600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	528157									
1		1	8.0	93	1272	0	0	528157	0	599999
	355307									
2		1	6.0	84	1725	0	0	884736	600000	1199999
	700648									
3		3	12.0	85	1910	1925	1082	1587109	1200000	1799999
	325795									
4		1	13.0	82	1887	0	0	1917821	1800000	2399999
	1024926									
5		2	15.0	91	1445	1219	0	2944634	2400000	2999999
	365990									
6		1	17.0	67	1103	0	0	3313288	3000000	3599999
	469400									
7		1	7.0	52	1427	0	0	3783791	3600000	4199999
	534253									
8		3	5.0	78	1671	1468	1459	4319471	4200000	4799999
	944551									
9		1	7.0	63	1224	0	0	5268620	4800000	5399999
	429358									
10		2	11.0	58	1864	1460	0	5699202	5400000	5999999
	824606									
11		2	14.0	59	1923	1179	0	6527132	6000000	6599999
	350744									
12		2	5.0	91	1989	1287	0	6880978	6600000	7199999
	771480									
13		3	9.0	84	1772	1985	1360	7655734	7200000	7799999
	145491									
14		3	20.0	70	1860	1383	1088	7806342	7800000	8399999
	1062053									
15		2	12.0	60	1466	1818	0	8872726	8400000	8999999

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#	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)			
	353044									
16		1	6.0	98	1683	0	0	9229054	9000000	9599999
	435734									
17		2	7.0	95	1592	1648	0	9666471	9600000	10199999
	537090									
18		2	17.0	70	1031	1522	0	10206801	10200000	10799999
	1081926									
19		2	15.0	84	1908	1534	0	11291280	10800000	11399999
	410043									
20		2	19.0	71	1299	1564	0	11704765	11400000	11999999

Total number of pulses in waveform = 37

Waveform Num =   9
Num of Bursts =   19
Burst Interval (us) =   631579.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	66864									
1		1	7.0	60	1553	0	0	66864	0	631578
	1078297									
2		2	15.0	73	1831	1900	0	1146714	631579	1263157
	494606									
3		3	11.0	61	1257	1765	1708	1645051	1263158	1894736
	388071									
4		1	20.0	58	1209	0	0	2037852	1894737	2526315
	650101									
5		1	13.0	65	1614	0	0	2689162	2526316	3157894
	704464									
6		2	15.0	90	1879	1729	0	3395240	3157895	3789473
	506129									
7		3	17.0	62	1950	1925	1961	3904977	3789474	4421052
	581707									
8		1	14.0	93	1685	0	0	4492520	4421053	5052631
	770400									
9		1	18.0	91	1588	0	0	5264605	5052632	5684210
	953719									
10		1	14.0	78	1940	0	0	6219912	5684211	6315789
	632465									
11		1	16.0	97	1124	0	0	6854317	6315790	6947368
	382794									
12		3	13.0	96	1152	1813	1827	7238235	6947369	7578947
	734949									
13		3	15.0	82	1436	1926	1460	7977976	7578948	8210526
	752654									
14		1	17.0	90	1341	0	0	8735452	8210527	8842105
	489150									
15		1	5.0	55	1319	0	0	9225943	8842106	9473684

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	534628									
16		3	14.0	63	1026	1081	1600	9761890	9473685	10105263
	643710									
17		1	10.0	97	1590	0	0	10409307	10105264	10736842
	408534									
18		1	12.0	83	1593	0	0	10819431	10736843	11368421
	684236									
19		1	14.0	81	1015	0	0	11505260	11368422	12000000

Total number of pulses in waveform = 31

Waveform Num =   10
Num of Bursts =   11
Burst Interval (us) = 1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1045385									
1		1	15.0	51	1607	0	0	1045385	0	1090908
	670320									
2		2	6.0	85	1408	1416	0	1717312	1090909	2181817
	1020811									
3		1	20.0	73	1629	0	0	2740947	2181818	3272726
	1089014									
4		2	5.0	62	1014	1335	0	3831590	3272727	4363635
	775047									
5		1	15.0	87	1204	0	0	4608986	4363636	5454544
	1161797									
6		1	13.0	91	1215	0	0	5771987	5454545	6545453
	1267116									
7		2	19.0	86	1161	1343	0	7040318	6545454	7636362
	1631764									
8		1	11.0	72	1292	0	0	8674586	7636363	8727271
	1044089									
9		3	19.0	87	1915	1730	1380	9719967	8727272	9818180
	890610									
10		1	11.0	67	1274	0	0	10615602	9818181	10909089
	434806									
11		3	13.0	87	1583	1036	1419	11051682	10909090	11999998

Total number of pulses in waveform = 18

Waveform Num =   11
Num of Bursts =   14
Burst Interval (us) =   857143.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	810031									
1		1	14.0	61	1274	0	0	810031	0	857142

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#	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	782981									
2		1	16.0	89	1230	0	0	1594286	857143	1714285
	548437									
3		1	9.0	84	1042	0	0	2143953	1714286	2571428
	716292									
4		2	10.0	60	1383	1702	0	2861287	2571429	3428571
	1089184									
5		1	20.0	74	1249	0	0	3953556	3428572	4285714
	680226									
6		2	19.0	71	1910	1049	0	4635031	4285715	5142857
	857193									
7		1	10.0	93	1065	0	0	5495183	5142858	6000000
	677689									
8		3	6.0	60	1157	1094	1229	6173937	6000001	6857143
	1434140									
9		3	13.0	51	1610	1343	1604	7611557	6857144	7714286
	861505									
10		1	12.0	99	1459	0	0	8477619	7714287	8571429
	544461									
11		2	17.0	92	1520	1947	0	9023539	8571430	9428572
	1092070									
12		3	20.0	95	1749	1188	1821	10119076	9428573	10285715
	486192									
13		3	10.0	75	1000	1958	1903	10610026	10285716	11142858
	830397									
14		1	20.0	58	1367	0	0	11445284	11142859	12000001

Total number of pulses in waveform = 25

Waveform Num = 12
Num of Bursts = 12
Burst Interval (us) = 1000000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	143666									
1		3	16.0	53	1131	1131	1465	143666	0	999999
	950760									
2		1	16.0	79	1620	0	0	1098153	1000000	1999999
	1753045									
3		3	20.0	70	1634	1438	1410	2852818	2000000	2999999
	802900									
4		1	8.0	90	1951	0	0	3660200	3000000	3999999
	720616									
5		3	18.0	50	1064	1990	1394	4382767	4000000	4999999
	1238515									
6		3	19.0	70	1537	1422	1039	5625730	5000000	5999999
	1321850									
7		3	6.0	86	1571	1545	1622	6951578	6000000	6999999

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	345991									
8		3	14.0	62	1429	1002	1810	7302307	7000000	7999999
	1158749									
9		1	18.0	89	1583	0	0	8465297	8000000	8999999
	1261870									
10		2	16.0	56	1087	1164	0	9728750	9000000	9999999
	512837									
11		1	6.0	51	1650	0	0	10243838	10000000	10999999
	1677097									
12		2	18.0	51	1778	1391	0	11922585	11000000	11999999

Total number of pulses in waveform = 26

Waveform Num =   13
Num of Bursts =   12
Burst Interval (us) =   1000000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	82983									
1		1	6.0	55	1018	0	0	82983	0	999999
	1572499									
2		1	6.0	59	1337	0	0	1656500	1000000	1999999
	1312837									
3		1	7.0	92	1773	0	0	2970674	2000000	2999999
	77987									
4		2	17.0	66	1509	1058	0	3050434	3000000	3999999
	1108163									
5		1	6.0	69	1743	0	0	4161164	4000000	4999999
	1696390									
6		1	19.0	94	1278	0	0	5859297	5000000	5999999
	367774									
7		3	13.0	50	1878	1067	1543	6228349	6000000	6999999
	923532									
8		3	16.0	100	1688	1003	1001	7156369	7000000	7999999
	1232779									
9		2	14.0	50	1821	1061	0	8392840	8000000	8999999
	831714									
10		1	13.0	96	1261	0	0	9227436	9000000	9999999
	1123453									
11		3	18.0	83	1336	1934	1206	10352150	10000000	10999999
	717149									
12		2	13.0	93	1737	1190	0	11073775	11000000	11999999

Total number of pulses in waveform = 21

Waveform Num =   14
Num of Bursts =   19
Burst Interval (us) =   631579.0

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	514980	2	7.0	58	1489	1298	0	514980	0	631578
2	340678	2	8.0	87	1352	1379	0	858445	631579	1263157
3	437338	2	11.0	68	1397	1022	0	1298514	1263158	1894736
4	1184382	2	16.0	67	1985	1709	0	2485315	1894737	2526315
5	365165	2	7.0	85	1267	1960	0	2854174	2526316	3157894
6	850239	1	10.0	86	1346	0	0	3707640	3157895	3789473
7	343133	3	7.0	96	1182	1715	1930	4052119	3789474	4421052
8	895307	2	12.0	89	1809	1706	0	4952253	4421053	5052631
9	529743	2	5.0	90	1078	1343	0	5485511	5052632	5684210
10	627403	2	17.0	92	1517	1462	0	6115335	5684211	6315789
11	627519	3	19.0	89	1870	1549	1940	6745833	6315790	6947368
12	256316	2	10.0	94	1679	1481	0	7007508	6947369	7578947
13	1112530	3	16.0	99	1703	1241	1950	8123198	7578948	8210526
14	94427	3	18.0	65	1420	1286	1267	8222519	8210527	8842105
15	1047898	2	8.0	76	1718	1572	0	9274390	8842106	9473684
16	717466	3	11.0	89	1720	1778	1956	9995146	9473685	10105263
17	173944	2	14.0	52	1128	1720	0	10174544	10105264	10736842
18	1005031	3	12.0	50	1250	1403	1111	11182423	10736843	11368421
19	647895	3	10.0	52	1061	1316	1047	11834082	11368422	12000000

Total number of pulses in waveform = 44

Waveform Num = 15
Num of Bursts = 10
Burst Interval (us) = 1200000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	819317	3	12.0	88	1441	1661	1831	819317	0	1199999
2	1056397	2	11.0	80	1764	1164	0	1880647	1200000	2399999
3	1205899	3	15.0	62	1520	1558	1542	3089474	2400000	3599999
4	883406	3	15.0	75	1546	1958	1396	3977500	3600000	4799999
5	949991	2	8.0	61	1261	1535	0	4932391	4800000	5999999
6	1790962	1	10.0	63	1520	0	0	6726149	6000000	7199999
7	977849	1	15.0	59	1699	0	0	7705518	7200000	8399999
8	1034962	1	10.0	66	1985	0	0	8742179	8400000	9599999
9	2024232	1	20.0	65	1025	0	0	10768396	9600000	10799999
10	1167431	1	13.0	82	1229	0	0	11936852	10800000	11999999

Total number of pulses in waveform = 18

Waveform Num = 16
Num of Bursts = 8
Burst Interval (us) = 1500000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	150666	2	15.0	71	1110	1136	0	150666	0	1499999
2	1426084	3	6.0	84	1562	1268	1501	1578996	1500000	2999999
3	1589241	3	19.0	78	1036	1203	1428	3172568	3000000	4499999
4	2653344	3	11.0	98	1013	1829	1839	5829579	4500000	5999999
5	1602097	2	6.0	86	1273	1546	0	7436357	6000000	7499999
6	1003786	2	17.0	62	1217	1339	0	8442962	7500000	8999999
7	1939097	1	10.0	55	1828	0	0	10384615	9000000	10499999
8	1014854	3	6.0	63	1350	1799	1801	11401297	10500000	11999999

Total number of pulses in waveform = 19

Waveform Num = 17
Num of Bursts = 13

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Burst Interval (us) =   923077.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	852569									
1		2	10.0	65	1799	1511	0	852569	0	923076
	263327									
2		3	16.0	60	1119	1273	1166	1119206	923077	1846153
	1424466									
3		3	7.0	67	1657	1105	1857	2547230	1846154	2769230
	984834									
4		1	20.0	93	1461	0	0	3536683	2769231	3692307
	1027816									
5		1	15.0	92	1462	0	0	4565960	3692308	4615384
	319721									
6		2	8.0	73	1046	1339	0	4887143	4615385	5538461
	1095119									
7		2	13.0	89	1818	1264	0	5984647	5538462	6461538
	1025633									
8		3	10.0	58	1459	1408	1478	7013362	6461539	7384615
	469458									
9		3	7.0	98	1283	1688	1672	7487165	7384616	8307692
	1690781									
10		3	9.0	60	1804	1981	1282	9182589	8307693	9230769
	573279									
11		3	16.0	51	1335	1633	1140	9760935	9230770	10153846
	1186893									
12		3	18.0	64	1104	1487	1769	10951936	10153847	11076923
	912361									
13		2	12.0	69	1332	1118	0	11868657	11076924	12000000

Total number of pulses in waveform =   31

Waveform Num =   18
Num of Bursts =   11
Burst Interval (us) =   1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	430323									
1		1	19.0	99	1688	0	0	430323	0	1090908
	1564614									
2		1	18.0	81	1341	0	0	1996625	1090909	2181817
	999450									
3		1	5.0	62	1028	0	0	2997416	2181818	3272726
	1206214									
4		2	8.0	77	1060	1547	0	4204658	3272727	4363635
	675188									
5		3	14.0	96	1080	1480	1607	4882453	4363636	5454544

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	1173315									
6		2	6.0	54	1959	1302	0	6059935	5454545	6545453
7	1381946	1	6.0	65	1169	0	0	7445142	6545454	7636362
8	1254773	2	12.0	75	2000	1778	0	8701084	7636363	8727271
9	119632	2	6.0	71	1622	1398	0	8824494	8727272	9818180
10	1229495	1	15.0	88	1108	0	0	10057009	9818181	10909089
11	876980	3	16.0	66	1017	1053	1305	10935097	10909090	11999998

Total number of pulses in waveform = 19

Waveform Num = 19
Num of Bursts = 15
Burst Interval (us) = 800000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	653864									
1		3	6.0	95	1680	1338	1962	653864	0	799999
2	294048	1	12.0	60	1910	0	0	952892	800000	1599999
3	1257208	1	14.0	89	1725	0	0	2212010	1600000	2399999
4	255051	3	19.0	75	1993	1851	1833	2468786	2400000	3199999
5	1131239	3	20.0	94	1125	1707	1097	3605702	3200000	3999999
6	669538	3	15.0	79	1405	1881	1984	4279169	4000000	4799999
7	621439	2	14.0	81	1975	1958	0	4905878	4800000	5599999
8	1099916	2	10.0	81	1006	1597	0	6009727	5600000	6399999
9	1140495	2	20.0	93	1836	1392	0	7152825	6400000	7199999
10	590131	3	16.0	89	1185	1535	1938	7746184	7200000	7999999
11	812986	1	11.0	99	1543	0	0	8563828	8000000	8799999
12	726825	1	5.0	79	1331	0	0	9292196	8800000	9599999
13	421853	3	15.0	59	1254	1184	1798	9715380	9600000	10399999
14	1190175	2	15.0	54	1862	1565	0	10909791	10400000	11199999

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	1048352									
15		2	8.0	76	1716	1521	0	11961570	11200000	11999999

Total number of pulses in waveform = 32

Waveform Num =   20
Num of Bursts = 16
Burst Interval (us) =   750000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	50593									
1		1	8.0	65	1678	0	0	50593	0	749999
	1236504									
2		3	13.0	77	1082	1325	1608	1288775	750000	1499999
	396323									
3		2	6.0	55	1255	1640	0	1689113	1500000	2249999
	1175783									
4		3	8.0	100	1067	1627	1513	2867791	2250000	2999999
	150540									
5		1	9.0	70	1994	0	0	3022538	3000000	3749999
	1248658									
6		3	6.0	83	1986	1603	1530	4273190	3750000	4499999
	520299									
7		2	16.0	86	1530	1812	0	4798608	4500000	5249999
	465949									
8		1	9.0	99	1809	0	0	5267899	5250000	5999999
	817043									
9		3	15.0	90	1628	1371	1531	6086751	6000000	6749999
	665699									
10		2	11.0	62	1738	1190	0	6756980	6750000	7499999
	931271									
11		2	8.0	73	1998	1839	0	7691179	7500000	8249999
	817410									
12		3	10.0	90	1337	1779	1063	8512426	8250000	8999999
	689077									
13		1	17.0	51	1970	0	0	9205682	9000000	9749999
	776408									
14		1	19.0	77	1169	0	0	9984060	9750000	10499999
	682002									
15		3	16.0	90	1651	1080	1915	10667231	10500000	11249999
	1169287									
16		2	7.0	79	1266	1829	0	11841164	11250000	11999999

Total number of pulses in waveform = 33

Waveform Num =   21
Num of Bursts = 12
Burst Interval (us) = 1000000.0

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	493461									
1		1	18.0	86	1488	0	0	493461	0	999999
	628608									
2		2	14.0	56	1464	1500	0	1123557	1000000	1999999
	1233351									
3		1	20.0	100	1044	0	0	2359872	2000000	2999999
	1623698									
4		3	9.0	82	1109	1834	1680	3984614	3000000	3999999
	119692									
5		2	20.0	93	1763	1188	0	4108929	4000000	4999999
	1212618									
6		2	16.0	83	1785	1245	0	5324498	5000000	5999999
	967747									
7		2	5.0	75	1761	1370	0	6295275	6000000	6999999
	986028									
8		2	7.0	81	1406	1246	0	7284434	7000000	7999999
	982185									
9		1	12.0	58	1000	0	0	8269271	8000000	8999999
	1405234									
10		3	19.0	84	1635	1984	1595	9675505	9000000	9999999
	823361									
11		3	8.0	92	1639	1269	1856	10504080	10000000	10999999
	1008655									
12		2	19.0	72	1314	1631	0	11517499	11000000	11999999

Total number of pulses in waveform = 24

Waveform Num = 22
Num of Bursts = 19
Burst Interval (us) = 631579.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	474284									
1		1	7.0	52	1665	0	0	474284	0	631578
	628003									
2		1	5.0	79	1308	0	0	1103952	631579	1263157
	425712									
3		3	11.0	100	1146	1539	1569	1530972	1263158	1894736
	634959									
4		2	7.0	80	1744	1226	0	2170185	1894737	2526315
	576711									
5		1	8.0	75	1996	0	0	2749866	2526316	3157894
	858586									
6		1	16.0	76	1951	0	0	3610448	3157895	3789473
	502193									
7		1	9.0	84	1379	0	0	4114592	3789474	4421052

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
8	868892	2	17.0	85	1666	1835	0	4984863	4421053	5052631
9	345820	1	20.0	80	1864	0	0	5334184	5052632	5684210
10	632650	3	11.0	71	1441	1669	1194	5968698	5684211	6315789
11	926967	3	12.0	96	1919	1200	1216	6899969	6315790	6947368
12	361847	3	11.0	69	1929	1449	1708	7266151	6947369	7578947
13	354471	1	19.0	70	1610	0	0	7625708	7578948	8210526
14	1199958	3	16.0	89	1279	1242	1086	8827276	8210527	8842105
15	216999	2	8.0	98	1824	1203	0	9047882	8842106	9473684
16	531184	3	14.0	66	1817	1866	1060	9582093	9473685	10105263
17	628912	2	6.0	77	1389	1670	0	10215748	10105264	10736842
18	686225	3	20.0	92	1793	1940	1047	10905032	10736843	11368421
19	1004916	2	7.0	64	1088	1179	0	11914728	11368422	12000000

Total number of pulses in waveform = 38

Waveform Num =   23
Num of Bursts =   20
Burst Interval (us) =   600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	168651	1	5.0	74	1418	0	0	168651	0	599999
2	718639	1	5.0	75	1038	0	0	888708	600000	1199999
3	460572	1	15.0	53	1199	0	0	1350318	1200000	1799999
4	775755	1	16.0	93	1004	0	0	2127272	1800000	2399999
5	677659	3	6.0	92	1699	1813	1579	2805935	2400000	2999999
6	449750	2	9.0	65	1893	1235	0	3260776	3000000	3599999
7	586226	1	5.0	98	1915	0	0	3850130	3600000	4199999
8	705647	3	8.0	75	1036	1239	1605	4557692	4200000	4799999

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	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
9	392623	1	11.0	84	1263	0	0	4954195	4800000	5399999
10	831983	1	9.0	89	1290	0	0	5787441	5400000	5999999
11	601130	1	9.0	65	1239	0	0	6389861	6000000	6599999
12	501972	1	12.0	91	1790	0	0	6893072	6600000	7199999
13	509951	2	20.0	79	1437	1174	0	7404813	7200000	7799999
14	429905	3	9.0	55	1855	1461	1581	7837329	7800000	8399999
15	817471	1	7.0	80	1212	0	0	8659697	8400000	8999999
16	450289	3	5.0	78	1496	1524	1660	9111198	9000000	9599999
17	652361	2	17.0	67	1434	1422	0	9768239	9600000	10199999
18	610747	3	9.0	66	1874	1401	1361	10381842	10200000	10799999
19	536519	3	12.0	88	1154	1334	1739	10922997	10800000	11399999
20	639384	2	17.0	98	1020	1334	0	11566608	11400000	11999999

Total number of pulses in waveform = 36

Waveform Num =   24
Num of Bursts =   9
Burst Interval (us) =   1333333.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	556828	2	10.0	53	1309	1639	0	556828	0	1333332
2	1608683	3	6.0	82	1629	1815	1762	2168459	1333333	2666665
3	1347069	2	18.0	65	1961	1728	0	3520734	2666666	3999998
4	1291595	2	5.0	66	1290	1688	0	4816018	3999999	5333331
5	1534530	1	17.0	55	1113	0	0	6353526	5333332	6666664
6	1624070	3	8.0	90	1983	1478	1062	7978709	6666665	7999997
7	96053	1	16.0	58	1827	0	0	8079285	7999998	9333330
8	1802720	1	16.0	89	1795	0	0	9883832	9333331	10666663

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                                    New3RandParmBin5.txt
          1602071
9              1         12.0      94     1117      0         0         11487698  10666664       11999996
Total number of pulses in waveform =  16
 ▯
Waveform Num =    25
Num of Bursts =   12
Burst Interval (us) =  1000000.0
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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	173506									
1		2	6.0	78	1140	1134	0	173506	0	999999
	1404437									
2		2	20.0	98	1022	1913	0	1580217	1000000	1999999
	1007817									
3		2	20.0	50	1116	1850	0	2590969	2000000	2999999
	1071008									
4		1	13.0	64	1012	0	0	3664943	3000000	3999999
	1165098									
5		2	15.0	67	1746	1783	0	4831053	4000000	4999999
	1119459									
6		1	8.0	89	1096	0	0	5954041	5000000	5999999
	719624									
7		3	12.0	67	1301	1712	1112	6674761	6000000	6999999
	726479									
8		1	6.0	97	1381	0	0	7405365	7000000	7999999
	1275445									
9		3	5.0	67	1999	1540	1913	8682191	8000000	8999999
	457267									
10		1	9.0	91	1368	0	0	9144910	9000000	9999999
	1531323									
11		1	20.0	83	1124	0	0	10677601	10000000	10999999
	420015									
12		1	6.0	63	1389	0	0	11098740	11000000	11999999

```
Total number of pulses in waveform =  20
 ▯
Waveform Num =    26
Num of Bursts =   11
Burst Interval (us) =  1090909.0
```

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	147818									
1		1	10.0	66	1311	0	0	147818	0	1090908
	1024419									
2		3	17.0	59	1294	1950	1719	1173548	1090909	2181817
	1753838									
3		3	12.0	50	1163	1070	1780	2932349	2181818	3272726

```
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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
4	1299918	1	13.0	82	1250	0	0	4236280	3272727	4363635
5	1118580	1	9.0	93	1216	0	0	5356110	4363636	5454544
6	909569	1	12.0	76	1125	0	0	6266895	5454545	6545453
7	928712	1	8.0	88	1810	0	0	7196732	6545454	7636362
8	1208328	1	9.0	59	1492	0	0	8406870	7636363	8727271
9	397293	1	6.0	58	1377	0	0	8805655	8727272	9818180
10	1243182	2	19.0	53	1078	1996	0	10050214	9818181	10909089
11	1017041	3	8.0	85	1450	1137	1176	11070329	10909090	11999998

Total number of pulses in waveform = 18

Waveform Num = 27
Num of Bursts = 20
Burst Interval (us) = 600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	502071	2	12.0	51	1736	1518	0	502071	0	599999
2	336262	2	19.0	96	1118	1773	0	841587	600000	1199999
3	636552	1	16.0	61	1623	0	0	1481030	1200000	1799999
4	643093	2	7.0	86	1484	1397	0	2125746	1800000	2399999
5	348980	1	6.0	94	1369	0	0	2477607	2400000	2999999
6	744401	1	10.0	86	1102	0	0	3223377	3000000	3599999
7	869541	1	5.0	75	1047	0	0	4094020	3600000	4199999
8	432389	1	14.0	54	1214	0	0	4527456	4200000	4799999
9	400404	3	5.0	50	1361	1232	1889	4929074	4800000	5399999
10	786246	2	18.0	72	1757	1838	0	5719802	5400000	5999999
11	521348	3	13.0	59	1882	1269	1171	6244745	6000000	6599999
12	577229	2	12.0	89	1776	1348	0	6826296	6600000	7199999

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
13	474407	3	17.0	82	1317	1873	1227	7303827	7200000	7799999
14	1006629	1	15.0	100	1176	0	0	8314873	7800000	8399999
15	515786	3	20.0	54	1764	1551	1483	8831835	8400000	8999999
16	365005	3	12.0	58	1834	1789	1237	9201638	9000000	9599999
17	458975	2	11.0	54	1526	1336	0	9665473	9600000	10199999
18	610790	1	18.0	92	1197	0	0	10279125	10200000	10799999
19	1100766	1	6.0	74	1188	0	0	11381088	10800000	11399999
20	42313	3	10.0	94	1203	1803	1930	11424589	11400000	11999999

Total number of pulses in waveform = 38

Waveform Num = 28
Num of Bursts = 11
Burst Interval (us) = 1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	298018	1	7.0	96	1540	0	0	298018	0	1090908
2	1261856	1	7.0	94	1401	0	0	1561414	1090909	2181817
3	1149917	1	17.0	55	1037	0	0	2712732	2181818	3272726
4	593837	2	14.0	60	1608	1163	0	3307606	3272727	4363635
5	1058333	2	19.0	74	1463	1002	0	4368710	4363636	5454544
6	1891175	2	17.0	66	1635	1586	0	6262350	5454545	6545453
7	1063942	1	6.0	83	1238	0	0	7329513	6545454	7636362
8	314151	1	11.0	84	1876	0	0	7644902	7636363	8727271
9	2024911	1	11.0	99	1994	0	0	9671689	8727272	9818180
10	451234	3	6.0	84	1018	1537	1531	10124917	9818181	10909089
11	833204	3	5.0	99	1982	1062	1639	10962207	10909090	11999998

Total number of pulses in waveform = 18

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```
Waveform Num =    29
Num of Bursts =   19
Burst Interval (us) =    631579.0
```

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	555680									
1		3	16.0	77	1013	1998	1035	555680	0	631578
	405684									
2		3	20.0	95	1133	1084	1170	965410	631579	1263157
	517664									
3		1	15.0	64	1081	0	0	1486461	1263158	1894736
	408509									
4		1	19.0	60	1416	0	0	1896051	1894737	2526315
	766071									
5		2	11.0	57	1120	1711	0	2663538	2526316	3157894
	869968									
6		1	12.0	94	1370	0	0	3536337	3157895	3789473
	795503									
7		1	20.0	73	1083	0	0	4333210	3789474	4421052
	367213									
8		1	5.0	69	1603	0	0	4701506	4421053	5052631
	542532									
9		3	10.0	84	1557	1913	1086	5245641	5052632	5684210
	589005									
10		3	19.0	61	1433	1434	1611	5839202	5684211	6315789
	845860									
11		1	8.0	60	1798	0	0	6689540	6315790	6947368
	443100									
12		2	19.0	65	1078	1239	0	7134438	6947369	7578947
	513048									
13		2	19.0	57	1582	1863	0	7649803	7578948	8210526
	614895									
14		2	19.0	50	1283	1431	0	8268143	8210527	8842105
	769279									
15		3	11.0	87	1695	1567	1827	9040136	8842106	9473684
	581930									
16		3	10.0	51	1626	1791	1689	9627155	9473685	10105263
	1083046									
17		1	11.0	50	1771	0	0	10715307	10105264	10736842
	524187									
18		3	12.0	95	1159	1578	1261	11241265	10736843	11368421
	136422									
19		1	9.0	79	1138	0	0	11381685	11368422	12000000

```
Total number of pulses in waveform =   37

Waveform Num =    30
Num of Bursts =    9
```

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Burst Interval (us) = 1333333.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	139171	2	10.0	73	1269	1424	0	139171	0	1333332
2	2112903	1	9.0	63	1980	0	0	2254767	1333333	2666665
3	498212	1	20.0	98	1269	0	0	2754959	2666666	3999998
4	1678427	3	20.0	89	1644	1341	1747	4434655	3999999	5333331
5	2085587	3	14.0	96	1390	1911	1866	6524974	5333332	6666664
6	325777	1	10.0	67	1359	0	0	6855918	6666665	7999997
7	2200302	2	13.0	76	1249	1547	0	9057579	7999998	9333330
8	1599971	1	5.0	64	1465	0	0	10660346	9333331	10666663
9	600544	2	19.0	84	1343	1678	0	11262355	10666664	11999996

Total number of pulses in waveform = 16

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802.11n 40MHz

```
                                    New3RandParmBin5.txt
Waveform Num =    1
Num of Bursts =  14
Burst Interval (us) =   857143.0
```

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	76031									
1		2	18.0	62	1858	1352	0	76031	0	857142
	878212									
2		2	15.0	96	1701	1940	0	957453	857143	1714285
	1089340									
3		1	6.0	90	1020	0	0	2050434	1714286	2571428
	700869									
4		1	14.0	75	1892	0	0	2752323	2571429	3428571
	726420									
5		1	20.0	96	1344	0	0	3480635	3428572	4285714
	1092530									
6		2	20.0	84	1503	1454	0	4574509	4285715	5142857
	979068									
7		3	19.0	94	1831	1740	1542	5556534	5142858	6000000
	973527									
8		3	12.0	97	1112	1285	1049	6535174	6000001	6857143
	477663									
9		2	15.0	57	1204	1644	0	7016283	6857144	7714286
	839633									
10		2	7.0	75	1363	1217	0	7858764	7714287	8571429
	1181318									
11		2	5.0	99	1392	1060	0	9042662	8571430	9428572
	536999									
12		2	20.0	87	1711	1306	0	9582113	9428573	10285715
	1421451									
13		2	5.0	89	1944	1418	0	11006581	10285716	11142858
	338474									
14		1	20.0	84	1850	0	0	11348417	11142859	12000001

```
Total number of pulses in waveform =  26

Waveform Num =    2
Num of Bursts =  18
Burst Interval (us) =   666667.0
```

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	427875									
1		2	20.0	97	1072	1265	0	427875	0	666666
	485416									
2		3	14.0	55	1349	1292	1762	915628	666667	1333333
	754488									
3		2	17.0	68	1413	1560	0	1674519	1333334	2000000

```
                                        Page 1
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New3RandParmBin5.txt

		# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	848839									
4		2	20.0	53	1952	1710	0	2526331	2000001	2666667
	271373									
5		1	20.0	55	1871	0	0	2801366	2666668	3333334
	761527									
6		3	7.0	98	1222	1576	1984	3564764	3333335	4000001
	958234									
7		3	7.0	85	1100	1694	1495	4527780	4000002	4666668
	274697									
8		3	11.0	67	1297	1388	1069	4806766	4666669	5333335
	943553									
9		3	18.0	86	1449	1394	1321	5754073	5333336	6000002
	488008									
10		1	17.0	53	1369	0	0	6246245	6000003	6666669
	933590									
11		2	7.0	83	1557	1145	0	7181204	6666670	7333336
	171953									
12		1	9.0	52	1991	0	0	7355859	7333337	8000003
	1143163									
13		3	8.0	51	1452	1979	1275	8501013	8000004	8666670
	242778									
14		3	5.0	75	1202	1931	1284	8748497	8666671	9333337
	1113660									
15		3	8.0	60	1130	1222	1176	9866574	9333338	10000004
	728710									
16		2	6.0	96	1125	1352	0	10598812	10000005	10666671
	493148									
17		1	15.0	56	1993	0	0	11094437	10666672	11333338
	722999									
18		3	5.0	67	1429	1709	1094	11819429	11333339	12000005

Total number of pulses in waveform = 41

Waveform Num = 3
Num of Bursts = 20
Burst Interval (us) = 600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	437254									
1		2	9.0	91	1276	1488	0	437254	0	599999
	351004									
2		1	16.0	81	1588	0	0	791022	600000	1199999
	629297									
3		2	14.0	87	1467	1426	0	1421907	1200000	1799999
	734801									
4		1	14.0	61	1821	0	0	2159601	1800000	2399999
	593835									
5		3	7.0	88	1776	1331	1581	2755257	2400000	2999999

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Electromagnetic Compatibility
Appendix
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New3RandParmBin5.txt

					Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	310630									
6		2	7.0	99	1937	1910	0	3070575	3000000	3599999
	772826									
7		3	15.0	84	1581	1756	1241	3847248	3600000	4199999
	677277									
8		3	20.0	85	1035	1916	1921	4529103	4200000	4799999
	633363									
9		3	9.0	69	1244	1949	1231	5167338	4800000	5399999
	338403									
10		1	20.0	57	1081	0	0	5510165	5400000	5999999
	581053									
11		2	15.0	76	1572	1403	0	6092299	6000000	6599999
	581988									
12		2	19.0	53	1673	1438	0	6677262	6600000	7199999
	730597									
13		3	19.0	52	1890	1922	1960	7410970	7200000	7799999
	852553									
14		2	18.0	50	1331	1252	0	8269295	7800000	8399999
	673263									
15		3	18.0	91	1941	1919	1585	8945141	8400000	8999999
	264580									
16		2	18.0	66	1442	1901	0	9215166	9000000	9599999
	948540									
17		3	8.0	52	1957	1881	1530	10167049	9600000	10199999
	66303									
18		1	11.0	64	1752	0	0	10238720	10200000	10799999
	1133677									
19		1	19.0	57	1098	0	0	11374149	10800000	11399999
	364022									
20		3	18.0	94	1531	1883	1308	11739269	11400000	11999999

Total number of pulses in waveform = 43

Waveform Num = 4
Num of Bursts = 18
Burst Interval (us) = 666667.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	536425									
1		3	13.0	72	1727	1734	1020	536425	0	666666
	637092									
2		2	14.0	59	1484	1734	0	1177998	666667	1333333
	707026									
3		2	7.0	57	1804	1603	0	1888242	1333334	2000000
	451027									
4		3	6.0	94	1906	1899	1400	2342676	2000001	2666667
	818896									
5		1	11.0	96	1386	0	0	3166777	2666668	3333334

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	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	822084									
6		1	5.0	98	1973	0	0	3990247	3333335	4000001
	155505									
7		1	18.0	79	1796	0	0	4147725	4000002	4666668
	831106									
8		1	13.0	70	1117	0	0	4980627	4666669	5333335
	490540									
9		3	13.0	94	1004	1627	1516	5472284	5333336	6000002
	1172308									
10		1	8.0	89	1831	0	0	6648739	6000003	6666669
	336013									
11		2	17.0	93	1186	1092	0	6986583	6666670	7333336
	562511									
12		3	9.0	68	1275	1340	1651	7551372	7333337	8000003
	659725									
13		3	7.0	69	1306	1705	1938	8215363	8000004	8666670
	859389									
14		3	7.0	62	1966	1872	1933	9079701	8666671	9333337
	554832									
15		1	20.0	72	1294	0	0	9640304	9333338	10000004
	623191									
16		1	20.0	52	1190	0	0	10264789	10000005	10666671
	808250									
17		3	14.0	79	1082	1402	1119	11074229	10666672	11333338
	398318									
18		3	8.0	83	1249	1173	1480	11476150	11333339	12000005

Total number of pulses in waveform = 37

Waveform Num =   5
Num of Bursts =   9
Burst Interval (us) =   1333333.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	188364									
1		1	15.0	85	1204	0	0	188364	0	1333332
	2248844									
2		3	9.0	96	1949	1210	1068	2438412	1333333	2666665
	972107									
3		3	13.0	82	1032	1589	1698	3414746	2666666	3999998
	1095309									
4		1	10.0	89	1515	0	0	4514374	3999999	5333331
	1097659									
5		1	17.0	87	1938	0	0	5613548	5333332	6666664
	1162004									
6		1	11.0	50	1868	0	0	6777490	6666665	7999997
	2057485									
7		1	18.0	52	1820	0	0	8836843	7999998	9333330

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                                    New3RandParmBin5.txt
        1674020
8             2        12.0     65     1454     1121     0        10512683   9333331      10666663
        904608
9             2        19.0     67     1587     1996     0        11419866   10666664     11999996
Total number of pulses in waveform =  15

Waveform Num =     6
Num of Bursts =    9
Burst Interval (us) =  1333333.0

Burst  Off Time   #        Chirp    PW     Pulse 1  Pulse 2  Pulse 3  Start Loc  Start Burst  End Burst
#      (us)       Pulses   (MHz)    (us)   Pri(us)  Pri(us)  Pri(us)  (us)       Interval(us) Interval(us)
       204797
1             2        15.0     75     1770     1897     0        204797     0            1333332
       1376644
2             3        18.0     74     1647     1972     1122     1585108    1333333      2666665
       1848089
3             3        5.0      91     1309     1538     1626     3437938    2666666      3999998
       1661351
4             3        14.0     64     1922     1267     1405     5103762    3999999      5333331
       939834
5             3        9.0      68     1751     1064     1913     6048190    5333332      6666664
       1883743
6             3        7.0      90     1397     1556     1517     7936661    6666665      7999997
       928820
7             2        9.0      98     1812     1024     0        8869951    7999998      9333330
       1115988
8             2        6.0      53     1209     1070     0        9988775    9333331      10666663
       1550060
9             3        17.0     60     1301     1098     1729     11541114   10666664     11999996
Total number of pulses in waveform =  24

Waveform Num =     7
Num of Bursts =    14
Burst Interval (us) =   857143.0

Burst  Off Time   #        Chirp    PW     Pulse 1  Pulse 2  Pulse 3  Start Loc  Start Burst  End Burst
#      (us)       Pulses   (MHz)    (us)   Pri(us)  Pri(us)  Pri(us)  (us)       Interval(us) Interval(us)
       57459
1             2        13.0     65     1792     1725     0        57459      0            857142
       1198619
2             2        6.0      81     1049     1546     0        1259595    857143       1714285
       800400
3             3        16.0     59     1822     1633     1555     2062590    1714286      2571428
       951215
4             2        5.0      89     1291     1152     0        3018815    2571429      3428571
       916454
5             3        20.0     62     1790     1930     1751     3937712    3428572      4285714
                                              Page 5
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	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	774497									
6		2	8.0	71	1268	1569	0	4717680	4285715	5142857
	435176									
7		3	13.0	61	1646	1697	1110	5155693	5142858	6000000
	1090290									
8		2	19.0	67	1573	1802	0	6250436	6000001	6857143
	965285									
9		1	10.0	97	1308	0	0	7219096	6857144	7714286
	1315934									
10		1	8.0	50	1454	0	0	8536338	7714287	8571429
	95789									
11		1	16.0	62	1372	0	0	8633581	8571430	9428572
	815954									
12		3	7.0	75	1315	1621	1260	9450907	9428573	10285715
	1310545									
13		1	16.0	66	1903	0	0	10765648	10285716	11142858
	840611									
14		3	17.0	55	1596	1794	1213	11608162	11142859	12000001

Total number of pulses in waveform = 29

Waveform Num =   8
Num of Bursts = 14
Burst Interval (us) =   857143.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	304183									
1		1	9.0	82	1842	0	0	304183	0	857142
	873359									
2		2	20.0	58	1375	1263	0	1179384	857143	1714285
	866119									
3		3	14.0	62	1093	1249	1221	2048141	1714286	2571428
	1317848									
4		1	16.0	96	1360	0	0	3369552	2571429	3428571
	177527									
5		1	13.0	90	1544	0	0	3548439	3428572	4285714
	1076034									
6		3	15.0	98	1091	1198	1396	4626017	4285715	5142857
	1230872									
7		3	8.0	58	1021	1740	1130	5860574	5142858	6000000
	769630									
8		1	15.0	77	1763	0	0	6634095	6000001	6857143
	260210									
9		1	16.0	83	1713	0	0	6896068	6857144	7714286
	1279222									
10		3	8.0	57	1485	1959	1307	8177003	7714287	8571429
	602463									
11		3	15.0	53	1312	1591	1337	8784217	8571430	9428572

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	809162									
12		2	5.0	51	1061	1807	0	9597619	9428573	10285715
	1494485									
13		3	8.0	61	1058	1741	1155	11094972	10285716	11142858
	167670									
14		2	16.0	87	1925	1409	0	11266596	11142859	12000001

Total number of pulses in waveform = 29

Waveform Num = 9
Num of Bursts = 13
Burst Interval (us) = 923077.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	520602									
1		1	12.0	78	1618	0	0	520602	0	923076
	582025									
2		2	18.0	62	1913	1275	0	1104245	923077	1846153
	1512390									
3		2	5.0	86	1960	1775	0	2619823	1846154	2769230
	845187									
4		3	9.0	84	1211	1364	1443	3468745	2769231	3692307
	834391									
5		2	16.0	70	1508	1200	0	4307154	3692308	4615384
	640845									
6		3	20.0	70	1715	1234	1411	4950707	4615385	5538461
	1436852									
7		2	18.0	75	1287	1460	0	6391919	5538462	6461538
	221171									
8		1	11.0	73	1999	0	0	6615837	6461539	7384615
	1474203									
9		2	7.0	77	1903	1792	0	8092039	7384616	8307692
	1041133									
10		1	5.0	70	1545	0	0	9136867	8307693	9230769
	174111									
11		2	6.0	54	1477	1397	0	9312523	9230770	10153846
	936368									
12		1	14.0	76	1138	0	0	10251765	10153847	11076923
	1478915									
13		2	9.0	90	1733	1405	0	11731818	11076924	12000000

Total number of pulses in waveform = 24

Waveform Num = 10
Num of Bursts = 16
Burst Interval (us) = 750000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)

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                                    New3RandParmBin5.txt
            214003
    1            2      16.0    57    1146    1933    0        214003     0            749999
            820355
    2            1      20.0    79    1349    0       0        1037437    750000       1499999
            969789
    3            3      14.0    63    1112    1119    1329     2008575    1500000      2249999
            487230
    4            3      20.0    74    1632    1621    1426     2499365    2250000      2999999
            1164953
    5            3      8.0     90    1759    1844    1897     3668997    3000000      3749999
            150858
    6            1      16.0    97    1453    0       0        3825355    3750000      4499999
            1013536
    7            1      9.0     51    1193    0       0        4840344    4500000      5249999
            500026
    8            3      10.0    71    1709    1248    1936     5341563    5250000      5999999
            1360368
    9            2      6.0     94    1234    1312    0        6706824    6000000      6749999
            745213
    10           3      18.0    67    1336    1829    1273     7454583    6750000      7499999
            680216
    11           2      11.0    93    1924    1752    0        8139237    7500000      8249999
            571633
    12           2      18.0    81    1678    1493    0        8714546    8250000      8999999
            369289
    13           3      10.0    54    1615    1243    1675     9087006    9000000      9749999
            1250415
    14           2      6.0     99    1009    1420    0        10341954   9750000      10499999
            683016
    15           1      11.0    53    1678    0       0        11027399   10500000     11249999
            487980
    16           1      8.0     71    1558    0       0        11517057   11250000     11999999
Total number of pulses in waveform =  33

Waveform Num =    11
Num of Bursts =   11
Burst Interval (us) =   1090909.0
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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	409118									
1		1	19.0	97	1362	0	0	409118	0	1090908
	1158904									
2		2	11.0	51	1770	1496	0	1569384	1090909	2181817
	1316180									
3		1	7.0	82	1274	0	0	2888830	2181818	3272726
	542383									
4		2	9.0	75	1439	1085	0	3432487	3272727	4363635

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	1011185									
5		1	17.0	92	1315	0	0	4446196	4363636	5454544
6	1516802	2	10.0	80	1062	1971	0	5964313	5454545	6545453
7	1629631	2	8.0	54	1477	1082	0	7596977	6545454	7636362
8	133763	2	18.0	65	1423	1970	0	7733299	7636363	8727271
9	1829783	2	13.0	52	1060	1824	0	9566475	8727272	9818180
10	597268	3	7.0	56	1806	1233	1381	10166627	9818181	10909089
11	858562	3	13.0	74	1676	1865	1297	11029609	10909090	11999998

Total number of pulses in waveform = 21

Waveform Num = 12
Num of Bursts = 11
Burst Interval (us) = 1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	944816	3	16.0	54	1686	1185	1972	944816	0	1090908
2	653072	3	13.0	73	1159	1307	1922	1602731	1090909	2181817
3	717378	3	19.0	51	1111	1603	1066	2324497	2181818	3272726
4	1136662	1	12.0	80	1908	0	0	3464939	3272727	4363635
5	1879152	3	9.0	78	1978	1718	1981	5345999	4363636	5454544
6	164741	1	10.0	77	1188	0	0	5516417	5454545	6545453
7	1634915	1	12.0	59	1084	0	0	7152520	6545454	7636362
8	698124	2	15.0	64	1266	1947	0	7851728	7636363	8727271
9	1085800	3	15.0	87	1006	1632	1261	8940741	8727272	9818180
10	1186729	2	14.0	70	1635	1036	0	10131369	9818181	10909089
11	1259134	3	17.0	92	1634	1003	1024	11393174	10909090	11999998

Total number of pulses in waveform = 25

Waveform Num = 13
Num of Bursts = 17

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Electromagnetic Compatibility
Appendix
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Burst Interval (us) =   705882.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	179816									
1		3	9.0	93	1930	1052	1665	179816	0	705881
	783852									
2		1	6.0	51	1733	0	0	968315	705882	1411763
	628621									
3		2	15.0	80	1584	1072	0	1598669	1411764	2117645
	834918									
4		2	9.0	64	1066	1479	0	2436243	2117646	2823527
	1042395									
5		1	9.0	52	1807	0	0	3481183	2823528	3529409
	380958									
6		3	17.0	71	1731	1989	1288	3863948	3529410	4235291
	1016753									
7		2	18.0	75	1475	1718	0	4885709	4235292	4941173
	68355									
8		1	8.0	71	1541	0	0	4957257	4941174	5647055
	1219078									
9		3	12.0	61	1221	1533	1465	6177876	5647056	6352937
	652801									
10		3	15.0	83	1954	1751	1006	6834896	6352938	7058819
	440130									
11		2	13.0	87	1711	1301	0	7279737	7058820	7764701
	1170954									
12		2	15.0	67	1838	1653	0	8453703	7764702	8470583
	227680									
13		3	5.0	62	1959	1233	1347	8684874	8470584	9176465
	491270									
14		3	16.0	50	1089	1996	1082	9180683	9176466	9882347
	1213005									
15		3	18.0	56	1868	1421	1166	10397855	9882348	10588229
	188371									
16		2	14.0	59	1690	1470	0	10590681	10588230	11294111
	871671									
17		2	8.0	96	1698	1110	0	11465512	11294112	11999993

Total number of pulses in waveform = 38

Waveform Num =   14
Num of Bursts =   16
Burst Interval (us) =   750000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	299328									
1		1	9.0	78	1286	0	0	299328	0	749999

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
2	756671	2	7.0	51	1074	1858	0	1057285	750000	1499999
3	477462	2	14.0	75	1230	1667	0	1537679	1500000	2249999
4	1363000	1	19.0	51	1133	0	0	2903576	2250000	2999999
5	544151	3	15.0	94	1915	1221	1812	3448860	3000000	3749999
6	912032	3	11.0	79	1415	1495	1896	4365840	3750000	4499999
7	611838	3	8.0	91	1947	1595	1336	4982484	4500000	5249999
8	873114	3	11.0	87	1645	1492	1492	5860476	5250000	5999999
9	721282	1	7.0	71	1180	0	0	6586387	6000000	6749999
10	667455	1	17.0	54	1577	0	0	7255022	6750000	7499999
11	244918	3	18.0	69	1358	1016	1342	7501517	7500000	8249999
12	1121553	1	8.0	73	1246	0	0	8626786	8250000	8999999
13	641575	2	8.0	100	1699	1424	0	9269607	9000000	9749999
14	657028	2	20.0	85	1381	1170	0	9929758	9750000	10499999
15	1222503	1	12.0	50	1075	0	0	11154812	10500000	11249999
16	364685	1	14.0	100	1421	0	0	11520572	11250000	11999999

Total number of pulses in waveform = 30

Waveform Num = 15
Num of Bursts = 15
Burst Interval (us) = 800000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	443639	1	14.0	59	1348	0	0	443639	0	799999
2	1045245	1	6.0	97	1484	0	0	1490232	800000	1599999
3	208075	2	18.0	53	1279	1652	0	1699791	1600000	2399999
4	833478	3	5.0	54	1409	1651	1999	2536200	2400000	3199999
5	846861	1	15.0	91	1060	0	0	3388120	3200000	3999999

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	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1258008									
6		3	17.0	96	1620	1289	1642	4647188	4000000	4799999
	802778									
7		3	16.0	62	1109	1079	1671	5454517	4800000	5599999
	857880									
8		3	5.0	64	1634	1178	1940	6316256	5600000	6399999
	816400									
9		1	17.0	74	1931	0	0	7137408	6400000	7199999
	813965									
10		3	8.0	97	1696	1910	1485	7953304	7200000	7999999
	418883									
11		2	9.0	100	1800	1768	0	8377278	8000000	8799999
	564350									
12		3	17.0	62	1730	1699	1474	8945196	8800000	9599999
	1098595									
13		3	5.0	80	1571	1013	1808	10048694	9600000	10399999
	406643									
14		3	10.0	69	1434	1787	1219	10459729	10400000	11199999
	831855									
15		1	10.0	59	1428	0	0	11296024	11200000	11999999

Total number of pulses in waveform = 33
⌷
Waveform Num = 16
Num of Bursts = 9
Burst Interval (us) = 1333333.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1290245									
1		2	14.0	62	1859	1283	0	1290245	0	1333332
	529824									
2		1	17.0	58	1957	0	0	1823211	1333333	2666665
	1825548									
3		1	18.0	87	1875	0	0	3650716	2666666	3999998
	492648									
4		1	10.0	79	1622	0	0	4145239	3999999	5333331
	1600963									
5		2	18.0	96	1550	1950	0	5747824	5333332	6666664
	1528546									
6		3	10.0	51	1672	1361	1352	7279870	6666665	7999997
	1659449									
7		3	15.0	76	1439	1135	1792	8943704	7999998	9333330
	654631									
8		2	5.0	62	1092	1561	0	9602701	9333331	10666663
	2149016									
9		3	12.0	94	1355	1212	1538	11754370	10666664	11999996

Total number of pulses in waveform = 18
⌷

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Waveform Num =   17
Num of Bursts =   12
Burst Interval (us) =   1000000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	294826									
1		1	5.0	73	1962	0	0	294826	0	999999
	1125078									
2		3	14.0	69	1476	1918	1992	1421866	1000000	1999999
	1366317									
3		2	15.0	65	1254	1191	0	2793569	2000000	2999999
	535754									
4		1	15.0	97	1008	0	0	3331768	3000000	3999999
	839392									
5		1	15.0	77	1182	0	0	4172168	4000000	4999999
	949605									
6		1	12.0	93	1435	0	0	5122955	5000000	5999999
	1393441									
7		1	5.0	53	1000	0	0	6517831	6000000	6999999
	644844									
8		3	15.0	76	1004	1805	1229	7163675	7000000	7999999
	1024913									
9		3	7.0	54	1983	1289	1290	8192626	8000000	8999999
	1645820									
10		3	20.0	71	1061	1916	1131	9843008	9000000	9999999
	355065									
11		1	19.0	72	1297	0	0	10202181	10000000	10999999
	1653980									
12		2	7.0	81	1394	1811	0	11857458	11000000	11999999

Total number of pulses in waveform = 22

Waveform Num =   18
Num of Bursts =   20
Burst Interval (us) =   600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	226567									
1		2	15.0	58	1164	1153	0	226567	0	599999
	627797									
2		2	11.0	88	1631	1497	0	856681	600000	1199999
	814656									
3		1	16.0	66	1137	0	0	1674465	1200000	1799999
	568547									
4		3	19.0	68	1859	1854	1943	2244149	1800000	2399999
	747074									
5		1	19.0	91	1497	0	0	2996879	2400000	2999999

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
6	137013	2	9.0	56	1453	1961	0	3135389	3000000	3599999
7	690948	2	12.0	80	1425	1232	0	3829751	3600000	4199999
8	681515	2	7.0	81	1443	1419	0	4513923	4200000	4799999
9	536571	3	19.0	50	1340	1916	1470	5053356	4800000	5399999
10	825727	3	20.0	93	1030	1655	1280	5883809	5400000	5999999
11	370871	3	7.0	89	1575	1819	1502	6258645	6000000	6599999
12	613340	1	17.0	65	1032	0	0	6876881	6600000	7199999
13	655741	2	13.0	92	1834	1305	0	7533654	7200000	7799999
14	574058	1	13.0	90	1618	0	0	8110851	7800000	8399999
15	403211	2	13.0	60	1343	1630	0	8515680	8400000	8999999
16	661362	1	9.0	56	1134	0	0	9180015	9000000	9599999
17	850198	1	15.0	95	1214	0	0	10031347	9600000	10199999
18	352563	3	18.0	58	1996	1645	1308	10385124	10200000	10799999
19	799765	1	16.0	77	1838	0	0	11189838	10800000	11399999
20	775745	3	20.0	82	1049	1963	1325	11967421	11400000	11999999

Total number of pulses in waveform = 39

Waveform Num = 19
Num of Bursts = 11
Burst Interval (us) = 1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	423732	2	20.0	67	1239	1357	0	423732	0	1090908
2	742268	3	7.0	87	1236	1732	1783	1168596	1090909	2181817
3	1443776	2	14.0	68	1357	1811	0	2617123	2181818	3272726
4	708308	1	11.0	65	1861	0	0	3328599	3272727	4363635
5	1176838	3	14.0	85	1885	1820	1346	4507298	4363636	5454544

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1808294									
6		2	13.0	73	1805	1469	0	6320643	5454545	6545453
	1174299									
7		2	6.0	76	1336	1982	0	7498216	6545454	7636362
	771435									
8		3	6.0	55	2000	1588	1469	8272969	7636363	8727271
	1380300									
9		1	18.0	92	1519	0	0	9658326	8727272	9818180
	903216									
10		3	14.0	85	1522	1074	1727	10563061	9818181	10909089
	449990									
11		3	11.0	54	1870	1763	1766	11017374	10909090	11999998

Total number of pulses in waveform = 25

Waveform Num = 20
Num of Bursts = 12
Burst Interval (us) = 1000000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	516339									
1		1	5.0	90	1429	0	0	516339	0	999999
	1246850									
2		3	12.0	94	1000	1816	1450	1764618	1000000	1999999
	916198									
3		1	12.0	84	1692	0	0	2685082	2000000	2999999
	852196									
4		3	19.0	77	1948	1574	1712	3538970	3000000	3999999
	528913									
5		2	9.0	85	1520	1751	0	4073117	4000000	4999999
	1441775									
6		1	5.0	79	1475	0	0	5518163	5000000	5999999
	680086									
7		3	12.0	52	1122	1490	1259	6199724	6000000	6999999
	1308016									
8		2	12.0	76	1801	1061	0	7511611	7000000	7999999
	1364322									
9		2	10.0	98	1029	1813	0	8878795	8000000	8999999
	202691									
10		3	15.0	93	1546	1007	1171	9084328	9000000	9999999
	1673163									
11		2	5.0	77	1671	1675	0	10761215	10000000	10999999
	443549									
12		2	11.0	60	1652	1343	0	11208110	11000000	11999999

Total number of pulses in waveform = 25

Waveform Num = 21
Num of Bursts = 16

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Burst Interval (us) =   750000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	622803									
1		1	18.0	68	1008	0	0	622803	0	749999
	366086									
2		2	20.0	61	1076	1923	0	989897	750000	1499999
	997010									
3		3	5.0	77	1828	1934	1532	1989906	1500000	2249999
	359799									
4		1	19.0	76	1436	0	0	2354999	2250000	2999999
	750854									
5		3	13.0	93	1258	1880	1722	3107289	3000000	3749999
	667261									
6		1	6.0	63	1688	0	0	3779410	3750000	4499999
	786822									
7		2	14.0	63	1917	1933	0	4567920	4500000	5249999
	869817									
8		2	8.0	59	1520	1825	0	5441587	5250000	5999999
	726873									
9		1	9.0	55	1941	0	0	6171805	6000000	6749999
	810874									
10		2	5.0	70	1183	1556	0	6984620	6750000	7499999
	646850									
11		1	16.0	88	1097	0	0	7634209	7500000	8249999
	653375									
12		1	5.0	65	1889	0	0	8288681	8250000	8999999
	1182901									
13		2	8.0	60	1094	1104	0	9473471	9000000	9749999
	540040									
14		1	5.0	88	1417	0	0	10015709	9750000	10499999
	721959									
15		3	8.0	77	1865	1435	1720	10739085	10500000	11249999
	1112120									
16		2	12.0	80	1154	1080	0	11856225	11250000	11999999

Total number of pulses in waveform =   28

Waveform Num =   22
Num of Bursts =   20
Burst Interval (us) =   600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	83157									
1		1	16.0	61	1878	0	0	83157	0	599999
	538341									
2		1	12.0	59	1218	0	0	623376	600000	1199999

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		#	Chirp	PW	Pulse 1	Pulse 2	Pulse 3	Start Loc	Start Burst	End Burst
	2010882									
3		3	6.0	91	1524	1528	1564	3540421	2400000	3599999
	257671									
4		1	6.0	54	1760	0	0	3802708	3600000	4799999
	1512306									
5		3	9.0	65	1035	1445	1038	5316774	4800000	5999999
	791821									
6		2	17.0	56	1962	1733	0	6112113	6000000	7199999
	2170698									
7		2	19.0	61	1184	1402	0	8286506	7200000	8399999
	111048									
8		2	13.0	72	1643	1709	0	8400140	8400000	9599999
	1539965									
9		2	15.0	88	1673	1743	0	9943457	9600000	10799999
	1210886									
10		1	14.0	62	1807	0	0	11157759	10800000	11999999

Total number of pulses in waveform = 22
 □
Waveform Num =   24
Num of Bursts = 16
Burst Interval (us) =   750000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	482085									
1		3	16.0	64	1581	1031	1398	482085	0	749999
	433996									
2		2	15.0	64	1752	1283	0	920091	750000	1499999
	602024									
3		2	12.0	58	1472	1876	0	1525150	1500000	2249999
	1241482									
4		2	8.0	70	1784	1366	0	2769980	2250000	2999999
	368750									
5		1	16.0	65	1601	0	0	3141880	3000000	3749999
	709672									
6		3	15.0	82	1440	1378	1565	3853153	3750000	4499999
	795674									
7		3	8.0	72	1536	1860	1499	4653210	4500000	5249999
	1195621									
8		1	9.0	95	1454	0	0	5853726	5250000	5999999
	784809									
9		2	19.0	77	1467	1065	0	6639989	6000000	6749999
	568721									
10		2	18.0	86	1385	1720	0	7211242	6750000	7499999
	805074									
11		3	12.0	65	1675	1847	1504	8019421	7500000	8249999
	371136									
12		1	10.0	61	1454	0	0	8395583	8250000	8999999

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
13	863512	3	20.0	86	1903	1775	1886	9260549	9000000	9749999
14	777877	1	19.0	77	1839	0	0	10043990	9750000	10499999
15	741976	2	8.0	80	1113	1939	0	10787805	10500000	11249999
16	1044351	2	7.0	81	1941	1488	0	11835208	11250000	11999999

Total number of pulses in waveform = 33

Waveform Num = 25
Num of Bursts = 9
Burst Interval (us) = 1333333.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	177769	3	20.0	67	1937	1658	1199	177769	0	1333332
2	1891594	1	17.0	65	1473	0	0	2074157	1333333	2666665
3	1911216	1	12.0	57	1434	0	0	3986846	2666666	3999998
4	638262	1	17.0	100	1877	0	0	4626542	3999999	5333331
5	1494853	2	18.0	86	1448	1053	0	6123272	5333332	6666664
6	1255723	1	16.0	50	1577	0	0	7381496	6666665	7999997
7	1817621	1	11.0	52	1346	0	0	9200694	7999998	9333330
8	748343	3	9.0	94	1518	1862	1724	9950383	9333331	10666663
9	1994840	2	16.0	67	1933	1326	0	11950327	10666664	11999996

Total number of pulses in waveform = 15

Waveform Num = 26
Num of Bursts = 15
Burst Interval (us) = 800000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	606001	3	13.0	91	1735	1582	1358	606001	0	799999
2	192833	3	17.0	76	1621	1265	1780	803509	800000	1599999
3	871473	1	20.0	52	1713	0	0	1679648	1600000	2399999

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			Chirp	PW	Pulse 1	Pulse 2	Pulse 3		Start	End
4	1003209	1	20.0	60	1570	0	0	2684570	2400000	3199999
5	1203971	2	6.0	98	1742	1629	0	3890111	3200000	3999999
6	695082	1	16.0	55	1323	0	0	4588564	4000000	4799999
7	703827	2	9.0	60	1322	1179	0	5293714	4800000	5599999
8	502930	2	19.0	80	1251	1190	0	5799145	5600000	6399999
9	846661	2	8.0	94	1036	1861	0	6648247	6400000	7199999
10	1032000	3	15.0	65	1353	1691	1496	7683144	7200000	7999999
11	1064943	3	16.0	79	1407	1201	1237	8752627	8000000	8799999
12	662044	2	17.0	78	1838	1684	0	9418516	8800000	9599999
13	733237	2	17.0	53	1476	1234	0	10155275	9600000	10399999
14	716263	2	9.0	53	1186	1236	0	10874248	10400000	11199999
15	1050204	1	18.0	57	1487	0	0	11926874	11200000	11999999

Total number of pulses in waveform = 30

Waveform Num =   27
Num of Bursts = 19
Burst Interval (us) =   631579.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	180244	1	5.0	72	1295	0	0	180244	0	631578
2	450896	2	18.0	59	1325	1696	0	632435	631579	1263157
3	974494	3	18.0	92	1419	1623	1046	1609950	1263158	1894736
4	497871	3	13.0	93	1314	1152	1332	2111909	1894737	2526315
5	772694	1	18.0	97	1021	0	0	2888401	2526316	3157894
6	306468	1	17.0	89	1472	0	0	3195890	3157895	3789473
7	659062	3	15.0	61	1212	1021	1207	3856424	3789474	4421052
8	604514	1	13.0	95	1923	0	0	4464378	4421053	5052631

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	1102304									
9		1	8.0	95	1615	0	0	5568605	5052632	5684210
	168246									
10		1	11.0	68	1606	0	0	5738466	5684211	6315789
	945877									
11		2	12.0	95	1522	1740	0	6685949	6315790	6947368
	493862									
12		1	14.0	54	1255	0	0	7183073	6947369	7578947
	974359									
13		1	10.0	77	1347	0	0	8158687	7578948	8210526
	469294									
14		2	17.0	52	1721	1140	0	8629328	8210527	8842105
	290479									
15		2	14.0	98	1177	1200	0	8922668	8842106	9473684
	774774									
16		1	18.0	73	1793	0	0	9699819	9473685	10105263
	501839									
17		2	13.0	77	1391	1864	0	10203451	10105264	10736842
	769992									
18		3	13.0	64	1765	1037	1829	10976698	10736843	11368421
	839666									
19		3	9.0	92	1403	1260	1906	11820995	11368422	12000000

Total number of pulses in waveform = 34

Waveform Num =   28
Num of Bursts =   11
Burst Interval (us) =   1090909.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	623612									
1		1	16.0	58	1026	0	0	623612	0	1090908
	846049									
2		1	10.0	99	1776	0	0	1470687	1090909	2181817
	1380850									
3		3	5.0	99	1746	1704	1307	2853313	2181818	3272726
	1385884									
4		1	16.0	91	1325	0	0	4243954	3272727	4363635
	364978									
5		3	18.0	96	1387	1694	1143	4610257	4363636	5454544
	1074642									
6		1	15.0	53	1330	0	0	5689123	5454545	6545453
	1363316									
7		3	18.0	71	1452	1765	1711	7053769	6545454	7636362
	1257005									
8		2	12.0	66	1017	1452	0	8315702	7636363	8727271
	1183880									
9		1	16.0	78	1022	0	0	9502051	8727272	9818180

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	1292973									
10		1	17.0	62	1067	0	0	10796046	9818181	10909089
	610433									
11		2	13.0	95	1329	1002	0	11407546	10909090	11999998

Total number of pulses in waveform = 19

Waveform Num =   29
Num of Bursts =   20
Burst Interval (us) =   600000.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
	344756									
1		3	8.0	85	1721	1498	1918	344756	0	599999
	366753									
2		3	8.0	54	1111	1890	1524	716646	600000	1199999
	951293									
3		3	15.0	81	1620	1256	1057	1672464	1200000	1799999
	609294									
4		1	8.0	64	1750	0	0	2285691	1800000	2399999
	684146									
5		1	5.0	66	1752	0	0	2971587	2400000	2999999
	359976									
6		2	16.0	86	1312	1433	0	3333315	3000000	3599999
	682923									
7		2	9.0	58	1214	1000	0	4018983	3600000	4199999
	540067									
8		1	12.0	67	1398	0	0	4561264	4200000	4799999
	432700									
9		1	16.0	79	1476	0	0	4995362	4800000	5399999
	935616									
10		3	17.0	94	1448	1658	1655	5932454	5400000	5999999
	300460									
11		2	10.0	100	1790	1817	0	6237675	6000000	6599999
	607883									
12		3	12.0	67	1524	1993	1290	6849165	6600000	7199999
	469132									
13		3	5.0	68	1786	1575	1259	7323104	7200000	7799999
	681066									
14		2	20.0	100	1024	1730	0	8008790	7800000	8399999
	823553									
15		2	14.0	80	1744	1520	0	8835097	8400000	8999999
	223040									
16		1	15.0	75	1932	0	0	9061401	9000000	9599999
	1088942									
17		3	19.0	59	1532	1828	1400	10152275	9600000	10199999
	427464									
18		3	20.0	66	1987	1352	1792	10584499	10200000	10799999

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Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
19	756110	2	10.0	97	1634	1596	0	11345740	10800000	11399999
20	247448	1	16.0	95	1486	0	0	11596418	11400000	11999999

Total number of pulses in waveform = 42

Waveform Num =   30
Num of Bursts =   13
Burst Interval (us) =   923077.0

Burst #	Off Time (us)	# Pulses	Chirp (MHz)	PW (us)	Pulse 1 Pri(us)	Pulse 2 Pri(us)	Pulse 3 Pri(us)	Start Loc (us)	Start Burst Interval(us)	End Burst Interval(us)
1	870576	2	16.0	88	1293	1341	0	870576	0	923076
2	948896	3	13.0	53	1833	1155	1341	1822106	923077	1846153
3	729055	3	18.0	50	1737	1063	1244	2555490	1846154	2769230
4	568906	2	20.0	77	1630	1622	0	3128440	2769231	3692307
5	1136053	2	13.0	70	1336	1625	0	4267745	3692308	4615384
6	554758	2	20.0	90	1814	1792	0	4825464	4615385	5538461
7	1311002	1	19.0	63	1954	0	0	6140072	5538462	6461538
8	1016578	3	14.0	71	1908	1246	1267	7158604	6461539	7384615
9	322447	3	5.0	60	1382	1233	1611	7485472	7384616	8307692
10	1020274	3	14.0	67	1572	1170	1703	8509972	8307693	9230769
11	1269580	2	8.0	87	1120	1392	0	9783997	9230770	10153846
12	533393	3	18.0	67	1994	1524	1984	10319902	10153847	11076923
13	1544310	3	11.0	91	1044	1531	1414	11869714	11076924	12000000

Total number of pulses in waveform = 32

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IV. Test Equipment

Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ANSI/NCSL Z540-1-1994 and ANSI/ISO/IEC 17025:2000.

MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1S2421	EMI RECEIVER	ROHDE&SCHWARZ	ESIB 7	05/27/2009	05/27/2010
1S2121	PRE-AMPLIFIER	HEWLETT PACKARD	8449B	SEE NOTE	
1S2198	HORN ANTENNA	EMCO	3115	09/10/2008	09/10/2009
1S2202	ANTENNA, HORN, 1 METER	EMCO	3116	04/10/2007	04/10/2010
N/A	HIGH PASS FILTER	MICRO-TRONICS	HPM13146	SEE NOTE	
1S2481	CHAMBER, 10 METER	ETS-LINDGREN	DKE 8X8 DBL	12/26/2008	12/26/2009
1S2041	COUPLER, BI DIRECTIONALCOAXIAL	NARDA	N/A	SEE NOTE	
1S2460	ANALYZER, SPECTRUM 9 KHZ-40GHZ	AGILENT	E4407B	04/14/2009	04/14/2010
1S2034	COUPLER, DIRECTIONAL 1-20 GHZ	KRYTAR	101020020	SEE NOTE	
1S2464	LISN	SOLAR ELECTRONICS	9252-50-R24-BNC	09/26/2008	09/26/2009
1S2512	TRANSIENT LIMITER	AGILENT	11947A	SEE NOTE	
1S2520	THERMO-HYGROMETER	FISHER SCIENTIFIC	11-661-7D	11/14/2007	11/13/2009
1S2482	CHAMBER, 5 METER	PANASHIELD	641431	11/22/2008	11/22/2009
1S2108	RECIEVER, EMI, RF FILTER SECTION	HEWLETT PACKARD	85460A	11/06/2008	11/06/2009
1S2399	TURNTABLE CONTROLLER	SUNOL SCIENCE	SC99V	SEE NOTE	
1S2485	BILOG ANTENNA	TESEQ	CBL6112D	03/20/2009	03/20/2010
N/A	2-6GHZ COMBINER	MINI CIRCUITS	ZN4PD-1-63-S+	SEE NOTE	
1S2108	RF FILTER SECTION	HEWLETT PACKARD	85460A	11/6/08	11/6/09
1S2041	COUPLER, BI DIRECTIONALCOAXIAL	NARDA	N/A	SEE NOTE	
1S2128	HARMONIC MIXER	HEWLETT PACKARD	11970A	11/22/2008	11/22/2010
1S2129	HARMONIC MIXER	HEWLETT PACKARD	11970K	11/22/2008	11/22/2010

Table 93. Test Equipment List

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

MET Asset	Equipment	Manufacturer	Last Cal Date	Cal Due Date
1S2243	NI PXI-1042 8-SLOT 3U CHASSIS	NATIONAL INSTRUMENTS	SEE NOTE	
1S2602	NI PXI-5421 16-BIT 100MS/S ARBITRARY WAVEFORM GENERATOR	NATIONAL INSTRUMENTS	SEE NOTE	
1S2278	NI PXI-5610 2.7GHZ RF UPCONVERTER	NATIONAL INSTRUMENTS	SEE NOTE	
1S2069	UPCONVERTER, 7206 PXI 4.9 TO 6GHZ	ASCOR	SEE NOTE	
N/A	SPLITTER/COMBINER, ZFSC-2-9G (QTY 2)	MINI-CIRCUITS	SEE NOTE	
N/A	30DB ATTENUATOR, BW-S30W2 (QTY 2)	PASTERNAK	SEE NOTE	
N/A	10DB ATTENUATOR, BW-S10W2 (QTY 2)	PASTERNAK	SEE NOTE	
1S2523	PRE-AMPLIFIER, 8449B	AGILENT	SEE NOTE	
1S2583	SPECTRUM ANALYZER, E447A	AGILENT	01/12/2009	01/12/2010
1S2460	SPECTRUM ANALYZER, E4407B	AGILENT	04/14/2009	04/14/2010

Table 94. DFS Test Equipment List

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.

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V.   Certification & User's Manual Information

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Certification & User's Manual Information

A.   Certification Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart I — Marketing of Radio frequency devices:

§ 2.801 Radio-frequency device defined.

As used in this part, a radio-frequency device is any device which in its operation is capable of Emitting radio-frequency energy by radiation, conduction, or other means. Radio- frequency devices include, but are not limited to:

(a)   The various types of radio communication transmitting devices described throughout this chapter.

(b)   The incidental, unintentional and intentional radiators defined in Part 15 of this chapter.

(c)   The industrial, scientific, and medical equipment described in Part 18 of this chapter.

(d)   Any part or component thereof which in use emits radio-frequency energy by radiation, conduction, or other means.

§ 2.803 Marketing of radio frequency devices prior to equipment authorization.

(a)   Except as provided elsewhere in this chapter, no person shall sell or lease, or offer for sale or lease (including advertising for sale or lease), or import, ship or distribute for the purpose of selling or leasing or offering for sale or lease, any radio frequency device unless:

   (1)   In the case of a device subject to certification, such device has been authorized by the Commission in accordance with the rules in this chapter and is properly identified and labeled as required by §2.925 and other relevant sections in this chapter; or

   (2)   In the case of a device that is not required to have a grant of equipment authorization issued by the Commission, but which must comply with the specified technical standards prior to use, such device also complies with all applicable administrative (including verification of the equipment or authorization under a Declaration of Conformity, where required), technical, labeling and identification requirements specified in this chapter.

(d)   Notwithstanding the provisions of paragraph (a) of this section, the offer for sale solely to business, commercial, industrial, scientific or medical users (but not an offer for sale to other parties or to end users located in a residential environment) of a radio frequency device that is in the conceptual, developmental, design or pre-production stage is permitted prior to equipment authorization or, for devices not subject to the equipment authorization requirements, prior to a determination of compliance with the applicable technical requirements *provided* that the prospective buyer is advised in writing at the time of the offer for sale that the equipment is subject to the FCC rules and that the equipment will comply with the appropriate rules before delivery to the buyer or to centers of distribution.

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(e)(1)   Notwithstanding the provisions of paragraph (a) of this section, prior to equipment authorization or determination of compliance with the applicable technical requirements any radio frequency device may be operated, but not marketed, for the following purposes and under the following conditions:

(i)   Compliance testing;

(ii)   Demonstrations at a trade show provided the notice contained in paragraph (c)
of this section is displayed in a conspicuous location on, or immediately adjacent to, the device;

(iii) Demonstrations at an exhibition conducted at a business, commercial, industrial, scientific or medical location, but excluding locations in a residential environment, provided the notice contained in paragraphs (c) or (d) of this section, as appropriate, is displayed in a conspicuous location on, or immediately adjacent to, the device;

(iv)   Evaluation of product performance and determination of customer acceptability, provided such operation takes place at the manufacturer's facilities during developmental, design or pre-production states; or

(v)   Evaluation of product performance and determination of customer acceptability where customer acceptability of a radio frequency device cannot be determined at the manufacturer's facilities because of size or unique capability of the device, provided the device is operated at a business, commercial, industrial, scientific or medical user's site, but not at a residential site, during the development, design or pre-production stages.

(e)(2)   For the purpose of paragraphs (e)(1)(iv) and (e)(1)(v) of this section, the term *manufacturer's facilities* includes the facilities of the party responsible for compliance with the regulations and the manufacturer's premises, as well as the facilities of other entities working under the authorization of the responsible party in connection with the development and manufacture, but not the marketing, of the equipment.

(f)   For radio frequency devices subject to verification and sold solely to business, commercial, industrial, scientific and medical users (excluding products sold to other parties or for operation in a residential environment), parties responsible for verification of the devices shall have the option of ensuring compliance with the applicable technical specifications of this chapter at each end user's location after installation, provided that the purchase or lease agreement includes a proviso that such a determination of compliance be made and is the responsibility of the party responsible for verification of the equipment.

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The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart J — Equipment Authorization Procedures:

§ 2.901 Basis and Purpose

(a)   In order to carry out its responsibilities under the Communications Act and the various treaties and international regulations, and in order to promote efficient use of the radio spectrum, the Commission has developed technical standards for radio frequency equipment and parts or components thereof. The technical standards applicable to individual types of equipment are found in that part of the rules governing the service wherein the equipment is to be operated.[1] *In addition to the technical standards provided, the rules governing the service may require that such equipment be verified by the manufacturer or importer*, be authorized under a Declaration of Conformity, or receive an equipment authorization from the Commission by one of the following procedures: certification or registration.

(b)   The following sections describe the verification procedure, the procedure for a Declaration of Conformity, and the procedures to be followed in obtaining certification from the Commission and the conditions attendant to such a grant.

§ 2.907 Certification.

(a)   Certification is an equipment authorization issued by the Commission, based on representation and test data submitted by the applicant.

(b)   Certification attaches to all units subsequently marketed by the grantee which are identical (see Section 2.908) to the sample tested except for permissive changes or other variations authorized by the Commission pursuant to Section 2.1043.

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[1] In this case, the equipment is subject to the rules of Part 15. More specifically, the equipment falls under Subpart B (of Part 15), which deals with unintentional radiators.

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§ 2.948 Description of measurement facilities.

(a)   Each party making measurements of equipment that is subject to an equipment authorization under Part 15 or Part 18 of this chapter, regardless of whether the measurements are filed with the Commission or kept on file by the party responsible for compliance of equipment marketed within the U.S. or its possessions, shall compile a description of the measurement facilities employed.

(1)   If the measured equipment is subject to the verification procedure, the description of the measurement facilities shall be retained by the party responsible for verification of the equipment.

(i)   If the equipment is verified through measurements performed by an independent laboratory, it is acceptable for the party responsible for verification of the equipment to rely upon the description of the measurement facilities retained by or placed on file with the Commission by that laboratory. In this situation, the party responsible for the verification of the equipment is not required to retain a duplicate copy of the description of the measurement facilities.

(ii)   If the equipment is verified based on measurements performed at the installation site of the equipment, no specific site calibration data is required. It is acceptable to retain the description of the measurement facilities at the site at which the measurements were performed.

(2)   If the equipment is to be authorized by the Commission under the certification procedure, the description of the measurement facilities shall be filed with the Commission's Laboratory in Columbia, Maryland. The data describing the measurement facilities need only be filed once but must be updated as changes are made to the measurement facilities or as otherwise described in this section. At least every three years, the organization responsible for filing the data with the Commission shall certify that the data on file is current.

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Certification & User's Manual Information

Label and User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart A — General:

§ 15.19 Labeling requirements.

(a)　　*In addition to the requirements in Part 2 of this chapter, a device subject to certification or verification shall be labeled as follows:*

　　(1)　　Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under Part 73 of this chapter, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device:

　　　　This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

　　(2)　　A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

　　　　This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.

　　(3)　　All other devices shall bear the following statement in a conspicuous location on the device:

　　　　This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

　　(4)　　Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.

　　(5)　　When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

§ 15.21 Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Verification & User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B — Unintentional Radiators:

§ 15.105 Information to the user.

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

> Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

> Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
>
> – Reorient or relocate the receiving antenna.
>
> – Increase the separation between the equipment and receiver.
>
> – Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
>
> – Consult the dealer or an experienced radio/TV technician for help.

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ICES-003 Procedural & Labeling Requirements

From the Industry Canada Electromagnetic Compatibility Advisory Bulletin entitled, "Implementation and Interpretation of the Interference-Causing Equipment Standard for Digital Apparatus, ICES-003" (EMCAB-3, Issue 2, July 1995):

> "At present, CISPR 22: 2002 and ICES technical requirements are essentially equivalent. Therefore, if you have CISPR 22: 2002 approval by meeting CISPR Publication 22, the only additional requirements are: to attach a note to the report of the test results for compliance, indicating that these results are deemed satisfactory evidence of compliance with ICES-003 of the Canadian Interference-Causing Equipment Regulations; to maintain these records on file for the requisite five year period; and to provide the device with a notice of compliance in accordance with ICES-003."

Procedural Requirements:

According to Industry Canada's Interference Causing Equipment Standard for Digital Apparatus ICES-003 Issue 4, February 2004:

Section 6.1:   A record of the measurements and results, showing the date that the measurements were completed, shall be retained by the manufacturer or importer for a period of at least five years from the date shown in the record and made available for examination on the request of the Minister.

Section 6.2:   A written notice indicating compliance must accompany each unit of digital apparatus to the end user. The notice shall be in the form of a label that is affixed to the apparatus. Where because of insufficient space or other constraints it is not feasible to affix a label to the apparatus, the notice may be in the form of a statement in the user's manual.

Labeling Requirements:

The suggested text for the notice, in English and in French, is provided below, from the Annex of ICES-003:

This Class [2] digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe [1] est conforme à la norme NMB-003 du Canada.

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[2] Insert either A or B but not both as appropriate for the equipment requirements.

End of Report