Priority	STATUS	MODE	TESTED	# Freq. Channels	# BITS	# SAMPLERS	# QUADRANTS	POLARIZATION	POLARIZATION SUMMED	BANDWIDTH (MHz)	SAMPLE TIME (us)
(low #=top priority)											
Done	2	1 and 2	YES/YES	1024	16	1 or 2	1 or 2	1 or 2A	NO/YES	800	81.92
Done	2	3 and 4	YES/YES	1024	8	1 or 2	1 or 2	1 or 2A	NO/YES	800	40.96
Done	OK	5 and 6	YES/YES	1024	4	1 or 2	1 or 2	1 or 2A	NO/YES	800	20.48
NEVER	2	7	NO	1024	4	2	1	4	NO/YES	800	81.92
5	OK	9	NO	1024	2	1	2	1	NO	800	10.24
1	OK	A	NO	1024	2	2	2	1 /2	NO	800	20.48
1	2	B	NO	1024	2	2	2	4	NO	800	40.96
NEVER	2	13 and 14	NO/NO	2048	8	1 or 2	1 or 2	1 or 2A	NO/YES	800	81.92
Done	OK	15 and 16	YES/YES	2048	4	1 or 2	1 or 2	1 or 2A	NO/YES	800	40.96
5	OK	19	NO	2048	2	1	2	1	NO	800	20.48
1	OK	1A	NO	2048	2	2	2	1 /2	NO	800	40.96
NEVER	2	1B	NO	2048	2	2	2	4	NO	800	81.92
NEVER	2	1C	NO	2048	2	4	2	1 /2	NO	800	81.92
NEVER	2	21 and 22	NO	512	16	1 or 2	1 or 2	1 or 2A	NO/YES	800	40.96
NEVER	2	23 and 24	NO	512	8	1 or 2	1 or 2	1 or 2A	NO/YES	800	20.48
4	OK	25 and 26	NO	512	4	1 or 2	1 or 2	1 or 2A	NO/YES	800	10.24
NEVER	2	27	NO	512	4	2	1	4	NO	800	40.96
5	OK	29	NO	512	2	1	2	1	NO	800	5.12
4	OK	2A	NO	512	2	2	2	1 /2	NO	800	10.24
4	2	2B	NO	512	2	2	2	4	NO	800	20.48
NEVER	2	31 and 32	NO	256	16	1 or 2	1 or 2	1 or 2A	NO/YES	800	20.48
NEVER	2	33 and 34	NO	256	8	1 or 2	1 or 2	1 or 2A	NO/YES	800	10.24
4	OK	35 and 36	NO	256	4	1 or 2	1 or 2	1 or 2A	NO/YES	800	5.12
NEVER	2	37	NO	256	4	2	1	4	NO	800	20.48
4	OK	39	NO	256	2	1	2	1 /2	NO	800	2.56
4	OK	3A	NO	256	2	2	2	1 /2	NO	800	5.12
NEVER	2	3B	NO	256	2	2	2	4	NO	800	10.24
DONE	2	1_2X and 2_2X	YES/YES	512	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	81.92
DONE	2	3_2X and 4_2X	YES/YES	512	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	40.96
DONE	OK	5_2X and 6_2X	YES/YES	512	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	20.48
NEVER	2	7_2X	NO	512	4	2	1	4	NO	200	81.92
5	OK	9_2X	NO	512	2	1	2	1	NO	200	10.24
2	OK	A_2X	NO	512	2	2	2	1 /2	NO	200	20.48
1	2	B_2X	NO	512	2	2	2	4	NO	200	40.96
NEVER	2	13_2X and 14_2X	NO	1024	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	81.92
DONE	OK	15_2X and 16_2X	YES/YES	1024	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	40.96
5	OK	19_2X	NO	1024	2	1	2	1	NO	200	20.48
1	OK	1A_2X	NO	1024	2	2	2	1 /2	NO	200	40.96
NEVER	2	1B_2X	NO	1024	2	2	2	4	NO	200	81.92
NEVER	2	1C_2X	NO	2048	2	4	2	1 /2	NO	200	81.92
NEVER	2	21_2X and 22_2X	NO	512	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	40.96

Priority	STATUS	MODE	TESTED	# Freq. Channels	# BITS	# SAMPLERS	# QUADRANTS	POLARIZATION	POLARIZATION SUMMED	BANDWIDTH (MHz)	SAMPLE TIME (us)
(low #=top priority)											
Done	2	1 and 2	YES/YES	1024	16	1 or 2	1 or 2	1 or 2A	NO/YES	800	81.92
NEVER	2	23_2X and 24_2X	NO	512	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	20.48
4	OK	25_2X and 26_2X	NO	256	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	10.24
NEVER	2	27_2X	NO	256	4	2	1	4	NO	200	40.96
5	OK	29_2X	NO	256	2	1	2	1	NO	200	5.12
4	OK	2A_2X	NO	256	2	2	2	1 /2	NO	200	10.24
4	2	2B_2X	NO	256	2	2	2	4	NO	200	20.48
NEVER	2	31_2X and 32_2X	NO	128	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	20.48
NEVER	2	33_2X and 34_2X	NO	128	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	10.24
4	OK	35_2X and 36_2X	NO	128	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	5.12
NEVER	2	37	NO	128	4	2	1	4	NO	200	20.48
4	OK	39_2X	NO	128	2	1	2	1 /2	NO	200	2.56
4	OK	3A_2X	NO	128	2	2	2	1 /2	NO	200	5.12
NEVER	2	3B_2X	NO	128	2	2	2	4	NO	200	10.24
DONE	OK	41 and 42	YES/YES	1024	16	1 or 2	1 or 2	1 or 2A	NO/YES	50	81.92
DONE	OK	43 and 44	YES/YES	1024	8	1 or 2	1 or 2	1 or 2A	NO/YES	50	40.96
DONE	OK	45 and 46	YES/YES	1024	4	1 or 2	1 or 2	1 or 2A	NO/YES	50	20.48
1	OK	47	NO	1024	4	2	1	4	NO	50	81.92
2	OK	49	NO	1024	2	1	2	1 /2	NO	50	10.24
4	OK	4A	NO	1024	2	2	2	1 /2	NO	50	20.48
3	OK	4B	NO	1024	2	2	2	4	NO	50	40.96
NEVER	OK	53 and 54	NO	2048	8	1 or 2	1 or 2	1 or 2A	NO/YES	50	81.92
DONE	OK	55 and 56	YES/YES	2048	4	1 or 2	1 or 2	1 or 2A	NO/YES	50	40.96
2	OK	59	NO	2048	2	1	2	1 /2	NO	50	20.48
1	OK	5A	NO	2048	2	2	2	1 /2	NO	50	40.96
2	OK	5B	NO	2048	2	2	2	4	NO	50	81.92
4	OK	5C	NO	2048	2	4	2	1 /2	NO	50	81.92
NEVER	OK	61 and 62	NO	512	16	1 or 2	1 or 2	1 or 2A	NO/YES	50	40.96
NEVER	OK	63 and 64	NO	512	8	1 or 2	1 or 2	1 or 2A	NO/YES	50	20.48
3	OK	65 and 66	NO	512	4	1 or 2	1 or 2	1 or 2A	NO/YES	50	10.24
4	OK	69	NO	512	2	1	2	1 /2	NO	50	5.12
3	OK	6A	NO	512	2	2	2	1 /2	NO	50	10.24
NEVER	OK	6B	NO	512	2	2	2	4	NO	50	20.48
NEVER	OK	71 and 72	NO	256	16	1 or 2	1 or 2	1 or 2A	NO/YES	50	20.48
NEVER	OK	73 and 74	NO	256	8	1 or 2	1 or 2	1 or 2A	NO/YES	50	10.24
3	OK	75 and 76	NO	256	4	1 or 2	1 or 2	1 or 2A	NO/YES	50	5.12
NEVER	OK	77	NO	256	4	2	1	4	NO	50	20.48
4	OK	79	NO	256	2	1	2	1 /2	NO	50	2.56
3	OK	7A	NO	256	2	2	2	1 /2	NO	50	5.12
NEVER	OK	7B	NO	256	2	2	2	4	NO	50	10.24

Priority	STATUS	MODE	TESTED	# Freq. Channels	# BITS	# SAMPLERS	# QUADRANTS	POLARIZATION	POLARIZATION SUMMED	BANDWIDTH (MHz)	SAMPLE TIME (us)
(low #=top priority)											
Done	2	1 and 2	YES/YES	1024	16	1 or 2	1 or 2	1 or 2A	NO/YES	800	81.92
DONE	OK	41_2X and 42_2X	NO/NO	512	16	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	81.92
DONE	OK	43_2X and 44_2X	NO/NO	512	8	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	40.96
DONE	OK	45_2X and 46_2X	NO/NO	512	4	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	20.48
1	OK	47_2X	NO	512	4	2	1	4	NO	12.5	81.92
2	OK	49_2X	NO	512	2	1	2	1 /2	NO	12.5	10.24
4	OK	4A_2X	NO	512	2	2	2	1 /2	NO	12.5	20.48
3	OK	4B_2X	NO	512	2	2	2	4	NO	12.5	40.96
NEVER	OK	53_2X and 54_2X	NO	1024	8	1 or 2	1 or 2	1 or 2A	NO/YES	50	81.92
DONE	OK	55_2X and 56_2X	YES/YES	1024	4	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	40.96
2	OK	59_2X	NO	1024	2	1	2	1 /2	NO	12.5	20.48
1	OK	5A_2X	NO	1024	2	2	2	1 /2	NO	12.5	40.96
2	OK	5B_2X	NO	1024	2	2	2	4	NO	12.5	81.92
4	OK	5C_2X	NO	1024	2	4	2	1 /2	NO	12.5	81.92
NEVER	OK	61_2X and 62_2X	NO	256	16	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	40.96
NEVER	OK	63_2X and 64_2X	NO	256	8	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	20.48
2	OK	65_2X and 66_2X	NO	256	4	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	10.24
3	OK	69_2X	NO	256	2	1	2	1 /2	NO	12.5	5.12
5	OK	6A_2X	NO	256	2	2	2	1 /2	NO	12.5	10.24
NEVER	OK	6B_2X	NO	256	2	2	2	4	NO	12.5	20.48
NEVER	OK	71_2X and 72_2X	NO	128	16	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	20.48
NEVER	OK	73_2X and 74_2X	NO	128	8	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	10.24
3	OK	75_2X and 76_2X	NO	128	4	1 or 2	1 or 2	1 or 2A	NO/YES	12.5	5.12
NEVER	OK	77_2X	NO	128	4	2	1	4	NO	12.5	20.48
4	OK	79_2X	NO	128	2	1	2	1 /2	NO	12.5	2.56
3	OK	7A_2X	NO	128	2	2	2	1 /2	NO	12.5	5.12
NEVER	OK	7B_2X	NO	256	2	2	2	4	NO	12.5	10.24
<2	2	81 AND 82	NO	1024	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	81.92
<2	2	83 AND 84	NO	1024	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	40.96
<2	OK	85 AND 86	NO	1024	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	20.48
<2	2	87	NO	1024	4	2	1	4	NO	200	81.92
<2	OK	89	NO	1024	2	1	2	1	NO	200	10.24
<2	OK	8A	NO	1024	2	2	2	1/2	NO	200	20.48
<2	2	8B	NO	1024	2	2	2	4	NO	200	40.96
<2	2	93 and 94	NO	2048	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	81.92
<2	OK	95 AND 96	NO	2048	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	40.96
<2	OK	99	NO	2048	2	1	2	1	NO	200	20.48
<2	OK	9A	NO	2048	2	2	2	1/2	NO	200	40.96
<2	2	9B	NO	2048	2	2	2	4	NO	200	81.92
<2	2	A1 AND A2	NO	512	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	40.96

Priority	STATUS	MODE	TESTED	# Freq. Channels	# BITS	# SAMPLERS	# QUADRANTS	POLARIZATION	POLARIZATION SUMMED	BANDWIDTH (MHz)	SAMPLE TIME (us)
(low #=top priority)											
Done	2	1 and 2	YES/YES	1024	16	1 or 2	1 or 2	1 or 2A	NO/YES	800	81.92
<2	2	A3 AND A4	NO	512	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	20.48
<2	OK	A5 AND A6	NO	512	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	10.24
<2	2	A7	NO	512	4	2	1	4	NO	200	40.95
<2	OK	A9	NO	512	2	1	2	1	NO	200	4.92
<2	OK	AA	NO	512	2	2	2	1/2	NO	200	10.24
<2	2	AB	NO	512	2	2	2	4	NO	200	10.48
<2	2	B1 AND B2	NO	256	16	1 or 2	1 or 2	1 or 2A	NO/YES	200	20.48
<2	2	B3 ABD B4	NO	256	8	1 or 2	1 or 2	1 or 2A	NO/YES	200	10.24
<2	OK	B5 AND B6	NO	256	4	1 or 2	1 or 2	1 or 2A	NO/YES	200	5.12
<2	2	B7	NO	256	4	2	1	4	NO	200	20.48
<2	OK	B9	NO	256	2	1	2	1	NO	200	2.56
<2	OK	BA	NO	256	2	2	2	1/2	NO	200	5.12
<2	2	BB	NO	256	2	2	2	4	NO	200	10.24

Notes:

1. Where two modes appear on the same line, like MODE 1 and 2, the two modes are identical except that the first uses only a single quadrant and the second uses two quadrants with the two quadrant results added together

2. TESTED indicates whether the mode has been tested and verified by taking data (either from a pulsar or from a pulsed noise source)

3. POLARIZATION options are:

   * 1. Single polarization; 2. Two polarization; 2A. Two polarizations, added together; 1/2. Two or more RF bands are processed; 4. All 4 Stokes paramters

4. 200 & 12.5 MHZ modes: For now, the 200 and 12.5 Mhz modes are simply the 800 and 50 MHZ modes (respectively) with half the frequency channels. Eventually this will change to have 'true' 200 and 12.5 Mhz modes.

5. Priorities Marked with an asterick (*) require full stokes to be availabel in the spectrometer, and will not be tested until after that point. Priorities marked NEVER will not ever be included for use, as they have failed engineering tests. Depending on time, it is possible only the high priority modes will ever be released.

STATUS:

OK	mode should work now but may not have been tested yet
1	mode works but the results do not cover 100% of the time.
2	mode works but some time bins will be polluted with samples with the wrong lag.