

Spurious Measurement of uBitX (stock model without any mod)

2018/08/15 JJ1FXF

by Agilent E4440A (SPAN 20kHz, RBW 10Hz, VBW 10Hz)

Transmitter Setting			Measured Output (dBm)	Measured within ±10kHz			Measured all bands (Strongest Spur is listed)		
Frequency	Type	Others		Measured Freq.	dBm	dBc	Frequency	dBm	dBc
3.5375	CW		39.40	3.5371	-4.2	-43.6	/	/	/
3.5375	25 baud		39.40	/	/	/	17.6870	-2.3	-41.7
3.5375	CW	w/AT	39.40	3.5371	-4.2	-43.6	/	/	/
3.5375	25 baud	w/AT	39.40	/	/	/	7.0730	-25.3	-64.7
3.7980	CW		40.00	3.7983	-2.9	-42.9	/	/	/
3.7980	25 baud		40.00	/	/	/	11.3930	0.3	-39.7
3.7980	CW	w/AT	40.00	3.7983	-2.9	-42.9	/	/	/
3.7980	25 baud	w/AT	40.00	/	/	/	18.9900	-25.8	-65.8
7.1000	CW		37.60	7.1000	-49.6	-87.2	/	/	/
7.1000	25 baud		37.60	/	/	/	21.3030	2.5	-35.1
7.1000	CW	w/AT	37.60	7.1000	-49.6	-87.2	/	/	/
7.1000	25 baud	w/AT	37.60	/	/	/	21.3030	-17.6	-55.2
18.1180	CW		36.50	18.1215	-48.0	-84.5	/	/	/
18.1180	25 baud		36.50	/	/	/	36.2500	-3.0	-39.5
18.1180	CW	w/AT	36.50	18.1215	-48.0	-84.5	/	/	/
18.1180	25 baud	w/AT	36.50	/	/	/	36.2600	-15.9	-52.4
21.2250	CW		35.10	21.2290	-42.6	-77.7	/	/	/
21.2250	25 baud		35.10	/	/	/	42.4700	-6.0	-41.1
21.2250	CW	w/AT	35.10	21.2290	-42.6	-77.7	/	/	/
21.2250	25 baud	w/AT	35.10	/	/	/	42.4700	-10.5	-45.6
24.9400	CW		36.80	24.9455	-51.1	-87.9	/	/	/
24.9400	25 baud		36.80	/	/	/	12.4730	-4.9	-41.7
24.9400	CW	w/AT	36.80	24.9455	-51.1	-87.9	/	/	/
24.9400	25 baud	w/AT	36.80	/	/	/	37.4300	-16.0	-52.8
28.8500	CW		34.60	28.8560	-50.6	-85.2	/	/	/
28.8500	25 baud		34.60	/	/	/	14.4270	-3.4	-38.0
28.8500	CW	w/AT	34.60	28.8560	-50.6	-85.2	/	/	/
28.8500	25 baud	w/AT	34.60	/	/	/	43.3000	-4.7	-39.3

CW - Continuous Wave
 25 baud - 25 times dot per second

AT - Pi-C type Antenna Tuner (TRIO AT-200 was used)

* Note that the measured output is about 5W or less even in the low bands.