

TO: Stan Lyles  
[styles@fcc.gov](mailto:styles@fcc.gov)  
FCC Application Processing Branch

FROM: DeLyle Danner, ARNAV Systems, Inc.

PAGES: 2

RE: FCC ID FEF-453-8050

APPLICANT: ARNAV Systems, Inc.  
Correspondence Reference Number: 24834  
731 Confirmation Number: EA851428

In response to the correspondence received on 2/21/03, the following information has been provided.

- 1) Based on your test reports we cannot determine the frequency range for this device. The Exhibit 4b Radiated Spurious Emissions page 9 addresses this. Page 9 has been copied and will be part of this memo. Frequency band of operation is over channels 6-9: 1616.255 MHz (lowest channel 6 center frequency – 0.5BW; 1616.88-0.625 = 1616.255 MHz) to 1621.35 MHz (which is the upper frequency allocated to CDMA MSS, includes some guard band to Iridium assigned band).
- 2) Please submit RF output power measurements data for low, middle, and high bands per Section 2.1046. This information is contained on page 9 of Exhibit 4b that will be part of this memo.
- 3) Please submit the transmitter schematics for this device. Schematics and parts lists have been included as Exhibits 15-19.
- 4) Please submit internal photos for this device. Internal photos have been submitted by Exhibit 20.

Just to reiterate this is a Part 25 submission with a designator of **1M25G1W**.

An additional Request for Confidentiality Letter Exhibit 2A to cover Exhibits 15-20 was also posted. Exhibit 2 is still valid. ARNAV Systems, Inc. is under non-disclosure with Qualcomm on these Exhibits. ARNAV Systems would hope that the FCC would honor this confidentiality as they did with Qualcomm's filing of the exact same information.

REPORT No: SC-208160 TESTER: David Gray SPEC: FCC Part 25.202

CUSTOMER: Qualcomm

EUT: RCOM 100

EUT MODE: Transmit

DATE: 12/13/02 EIRP/EIRP Factor 5.5

NOTES:

TEST DIST: 3 Meters

TEST SITE: Roof

BIODICAL: N/A

LOG: N/A

HORN: 453

CF = Antenna Factor + Cable Loss + Preamp/Filter Gain + Presselector Loss

Table 1a

FRDQ (MHz)	VERTICAL (dBuV) pk	HORIZONTAL (dBuV) pk	CF (dBm)	MAX LEVEL (dBm) pk	SPEC LIMIT (dBm) pk	MARGIN (dB) pk	Antenna Height		EUT Rotation	Notes	dBuV/m	dBuW/m	
							TEST SITE	TEST DIST					
1616.88	99.4	99.4	31.3	35.4	-46.8	-13.0	-32.8	-43.8	315	1.5	130.7	31.3	
3233.76	50.4	39.5	30.5	-1.1	-45.8	-13.0	-32.0	-43.0	315	1.5	49.4	38.4	
4850.64	47.6	35.6	45.8	36	-47.1	-58.7	-13.0	-34.1	-45.7	315	1.5	48.2	38.6
6467.52	32	22	32	22	-56.2	-66.2	-13.0	-13.0	-53.2			39.1	29.1
8084.4	31	22	31	22	-54.5	-63.5	-13.0	-13.0	-50.5			40.8	31.8
9101.28	32	22	32	22	-52.6	-62.6	-13.0	-13.0	-49.6			42.7	32.7
11318.16	32	22	32	22	-49.0	-59.0	-13.0	-13.0	-45			46.3	36.3
12935.04	41	31	41	31	-40.3	-50.3	-13.0	-13.0	-37.3			55.0	45.0
14551.92	41	32	41	32	-38.1	-47.1	-13.0	-13.0	-34.1			57.1	48.1
16168.8	41	31	41	31	-35.5	-46.5	-13.0	-13.0	-33.5			58.8	49.8
1618.11	99.7	99.4	31.3	36.7								131.0	31.3
3236.22	46.2	36.2	47.6	26.1	-1.1	-48.6	-58.2	-13.0	-35.5	-45.2	-25	46.7	37.0
4854.33	49.4	38.7	49.2	38.3	0.6	-45.2	-55.9	-13.0	-32.2	-42.9	0	50.0	39.3
6472.44	33	22	33	22	7.1	-55.2	-66.2	-13.0	-42.2	-53.2		40.1	29.1
8090.55	32	22	32	22	9.8	-53.5	-63.5	-13.0	-40.5	-50.5		41.8	31.8
9708.68	32	22	32	22	10.7	-52.5	-62.5	-13.0	-39.5	-49.5		42.7	32.7
11326.77	33	22	33	22	14.3	-48.0	-59.0	-13.0	-35	-46		47.3	36.3
12944.88	41	31	41	31	13.9	-40.3	-50.3	-13.0	-27.3	-37.3		54.9	44.9
14562.99	41	32	41	32	16.2	-38.1	-47.1	-13.0	-25.1	-34.1		57.2	48.2
16181.1	41	31	41	31	17.9	-36.4	-46.4	-13.0	-23.4	-33.4		58.8	48.9
16200.57	99.3	97.9	31.3	35.3								130.6	31.3
3241.14	47.5	33.8	48.1	40.3	-1.0	-48.2	-56.0	-13.0	-35.2	-43	0	47.1	39.3
4851.71	40	30	40	30	0.7	-54.6	-64.6	-13.0	-41.6	-51.6		40.7	30.7
6482.28	33	22	33	22	7.1	-53.2	-66.2	-13.0	-42.2	-53.2		40.1	29.1
8102.85	31	21	31	21	9.8	-54.5	-64.5	-13.0	-41.5	-51.5		40.8	30.8
9723.42	31	21	31	21	10.8	-53.5	-63.5	-13.0	-40.5	-50.5		41.8	31.8
11343.99	31	21	31	21	14.3	-50.0	-60.0	-13.0	-37	-47		45.3	35.3
12964.55	42	32	42	32	13.9	-39.4	-49.4	-13.0	-26.4	-36.4		55.9	45.9
14565.13	42	32	42	32	16.2	-37.0	-47.0	-13.0	-24	-34		58.2	48.2
16205.7	42	31	42	31	17.9	-35.3	-46.3	-13.0	-22.3	-33.3		59.9	48.9