

Test of: Raymarine Ltd.
 Pathfinder RL85CRC PLUS and RL87CRC PLUS
 FCC Part 80: 1998 and
 FCC Part 2: 1998

Appendix D Graphical Test Results

Graph No.	Software	Description
RE/555/1002/01	Schaffner CES9985	Radiated Emissions 450ns PW 9 kHz to 30 MHz
RE/555/1002/02	Schaffner CES9985	Radiated Emissions 450ns PW 30 MHz to 300 MHz
RE/555/1002/03	Schaffner CES9985	Radiated Emissions 450ns PW 300 MHz to 1000 MHz
RE/555/1002/04	Schaffner CES9985	Radiated Emissions 450ns PW 1 GHz to 2 GHz
RE/555/1002/05	Schaffner CES9985	Radiated Emissions 450ns PW 2 GHz to 6.5 GHz
RE/555/1002/06	P&HT Plottergeist	Radiated Emissions 450ns PW 6.5 GHz to 8.91 GHz
RE/555/1002/07	P&HT Plottergeist	Radiated Emissions 75ns PW 8.9 GHz to 9.92 GHz
RE/555/1002/08	P&HT Plottergeist	Radiated Emissions 450ns PW 8.9 GHz to 9.92 GHz
RE/555/1002/09	P&HT Plottergeist	Radiated Emissions 1000ns PW 8.9 GHz to 9.92 GHz
RE/555/1002/10	P&HT Plottergeist	Radiated Emissions 450ns PW 9.9 GHz to 14 GHz
RE/555/1002/11	P&HT Plottergeist	Radiated Emissions 450ns PW 14 GHz to 18 GHz
RE/555/1002/12	P&HT Plottergeist	Radiated Emissions 450ns PW 18 GHz to 22 GHz
RE/555/1002/13	P&HT Plottergeist	Radiated Emissions 450ns PW 22 GHz to 26.5GHz
RE/555/1002/14	P&HT Plottergeist	Radiated Emissions 450ns PW 26.5 GHz to 31 GHz
RE/555/1002/15	P&HT Plottergeist	Radiated Emissions 450ns PW 31 GHz to 35.5 GHz
RE/555/1002/16	P&HT Plottergeist	Radiated Emissions 450ns PW 35.5 GHz to 40 GHz
CE/555/1002/01	P&HT Plottergeist	Conducted Emissions 450ns PW 6 GHz to 8.91 GHz
CE/555/1002/02	P&HT Plottergeist	Conducted Emissions 75ns PW 8.91 GHz to 9.35 GHz
CE/555/1002/03	P&HT Plottergeist	Conducted Emissions 450ns PW 8.91 GHz to 9.35 GHz
CE/555/1002/04	P&HT Plottergeist	Conducted Emissions 1000ns PW 8.91 GHz to 9.35 GHz
CE/555/1002/05	P&HT Plottergeist	Conducted Emissions 75ns PW 9.45 GHz to 9.93 GHz
CE/555/1002/06	P&HT Plottergeist	Conducted Emissions 450ns PW 9.45 GHz to 9.93 GHz
CE/555/1002/07	P&HT Plottergeist	Conducted Emissions 1000ns PW 9.45 GHz to 9.93 GHz
CE/555/1002/08	P&HT Plottergeist	Conducted Emissions 450ns PW 9.91 GHz to 26.5 GHz
CE/555/1002/09	P&HT Plottergeist	Conducted Emissions 450ns PW 26.5 GHz to 40 GHz
PW/555/1002/01	HP8991A Plot	Peak Power & Pulsewidth 75ns
PW/555/1002/02	HP8991A Plot	Peak Power & Pulsewidth 100ns
PW/555/1002/03	HP8991A Plot	Peak Power & Pulsewidth 150ns
PW/555/1002/04	HP8991A Plot	Peak Power & Pulsewidth 250ns
PW/555/1002/05	HP8991A Plot	Peak Power & Pulsewidth 350ns
PW/555/1002/06	HP8991A Plot	Peak Power & Pulsewidth 450ns
PW/555/1002/07	HP8991A Plot	Peak Power & Pulsewidth 600ns
PW/555/1002/08	HP8991A Plot	Peak Power & Pulsewidth 1000ns
PRF/555/1002/01	HP8991A Plot	Jitter Band – 740 Hz PRF
PRF/555/1002/02	HP8991A Plot	Averaged PRF – 740 Hz
PRF/555/1002/03	HP8991A Plot	Jitter Band – 1200 Hz PRF
PRF/555/1002/04	HP8991A Plot	Averaged PRF – 1200 Hz
PRF/555/1002/05	HP8991A Plot	Jitter Band – 1600 Hz PRF
PRF/555/1002/06	HP8991A Plot	Averaged PRF – 1600 Hz
PRF/555/1002/07	HP8991A Plot	Jitter Band – 2000 Hz PRF
PRF/555/1002/08	HP8991A Plot	Averaged PRF – 2000 Hz
PRF/555/1002/09	HP8991A Plot	Jitter Band – 3000 Hz PRF
PRF/555/1002/10	HP8991A Plot	Averaged PRF – 3000 Hz
OBW/555/1002/01	P&HT Plottergeist	Occupied Bandwidth Upper Edge 75ns Pulsewidth
OBW/555/1002/02	P&HT Plottergeist	Occupied Bandwidth Lower Edge 75ns Pulsewidth
OBW/555/1002/03	P&HT Plottergeist	Occupied Bandwidth Upper Edge 100ns Pulsewidth
OBW/555/1002/04	P&HT Plottergeist	Occupied Bandwidth Lower Edge 100ns Pulsewidth
OBW/555/1002/05	P&HT Plottergeist	Occupied Bandwidth Upper Edge 150ns Pulsewidth

RAYMARINE LTD.

EMC Department

**Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998**

TEST REPORT

No. 555/1002

Page 33 of 79

Issue Date: 29-10-2002

OBW/555/1002/06 P&HT Plottergeist	Occupied Bandwidth Lower Edge 150ns Pulsewidth
OBW/555/1002/07 P&HT Plottergeist	Occupied Bandwidth Upper Edge 250ns Pulsewidth
OBW/555/1002/08 P&HT Plottergeist	Occupied Bandwidth Lower Edge 250ns Pulsewidth
OBW/555/1002/09 P&HT Plottergeist	Occupied Bandwidth Upper Edge 350ns Pulsewidth
OBW/555/1002/10 P&HT Plottergeist	Occupied Bandwidth Lower Edge 350ns Pulsewidth
OBW/555/1002/11 P&HT Plottergeist	Occupied Bandwidth Upper Edge 450ns Pulsewidth
OBW/555/1002/12 P&HT Plottergeist	Occupied Bandwidth Lower Edge 450ns Pulsewidth
OBW/555/1002/13 P&HT Plottergeist	Occupied Bandwidth Upper Edge 600ns Pulsewidth
OBW/555/1002/14 P&HT Plottergeist	Occupied Bandwidth Lower Edge 600ns Pulsewidth
OBW/555/1002/15 P&HT Plottergeist	Occupied Bandwidth Upper Edge 1000ns Pulsewidth
OBW/555/1002/16 P&HT Plottergeist	Occupied Bandwidth Lower Edge 1000ns Pulsewidth

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

TP/555/1002

28 Aug 2002

Radiated Emissions @ 3m (Loop Antenna)

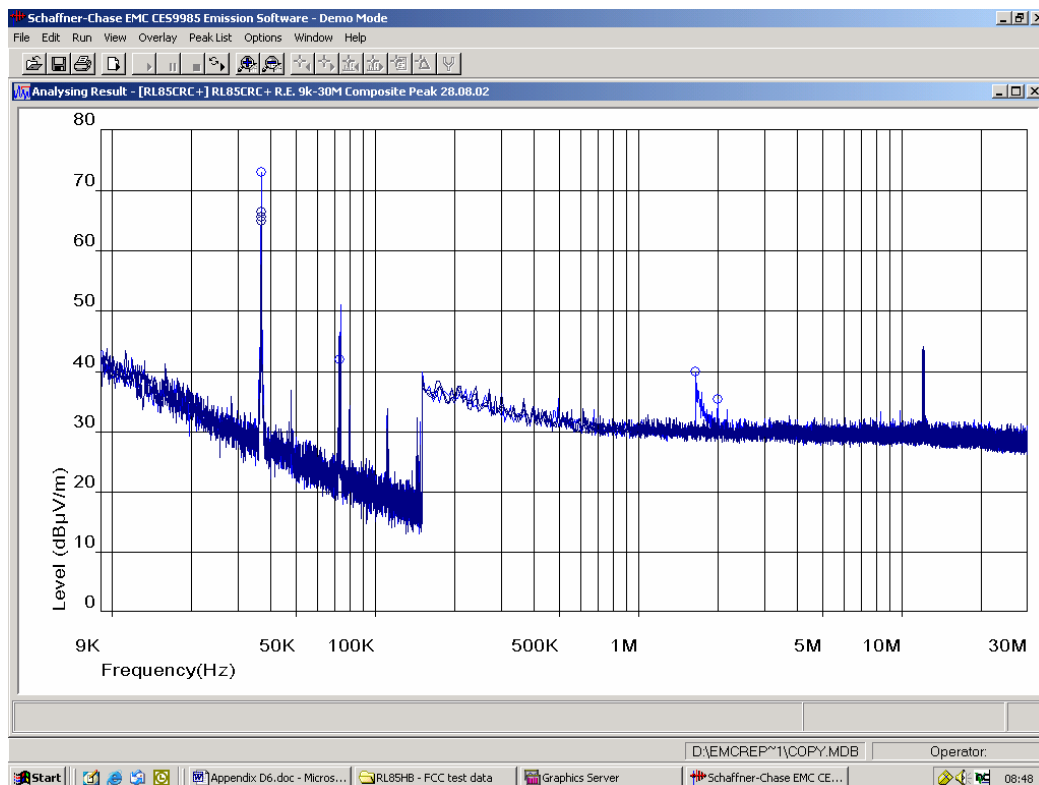
EUT: RL85CRC PLUS and RL87CRC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 24V supply.

Operator: P.Bowen

Start F	Stop F	BW	Step	Det.	Dwell	Atten.	Preamp	OpRge
9kHz	150kHz	200Hz	100Hz	PK	20msec	Auto	ON	70dB
150kHz	30MHz	9kHz	4.5kHz	PK	20msec	Auto	ON	70dB



Graph RE/555/1002/01

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

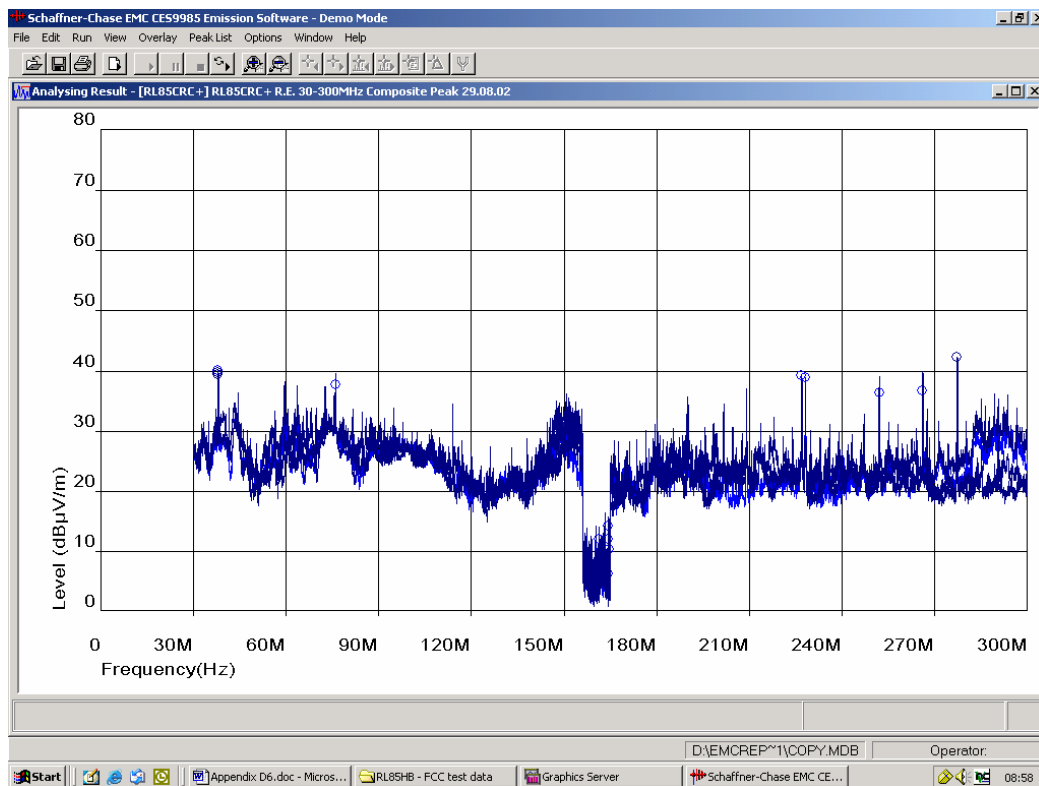
TP/555/1002

29 Aug 2002

Radiated Emissions @ 3m

EUT: RL85CRC PLUS and RL87CRC PLUS**Mfr:** Raymarine Ltd.**Op.Cond:** 24V supply.**Operator:** P.Bowen

Start F	Stop F	BW	Step	Det.	Dwell	Atten.	Preamp	OpRge
30MHz	156MHz	120kHz	60kHz	PK	20msec	0dB	ON	70dB
156MHz	165MHz	9kHz	4.5kHz	PK	20msec	0dB	ON	70dB
165MHz	300MHz	120kHz	60kHz	PK	20msec	0dB	ON	70dB



Graph RE/555/1002/02

RAYMARINE LTD.

EMC Department

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

TEST REPORT

No. 555/1002

Page 36 of 79

Issue Date: 29-10-2002

TP/555/1002

29 Aug 2002

Radiated Emissions @ 3m

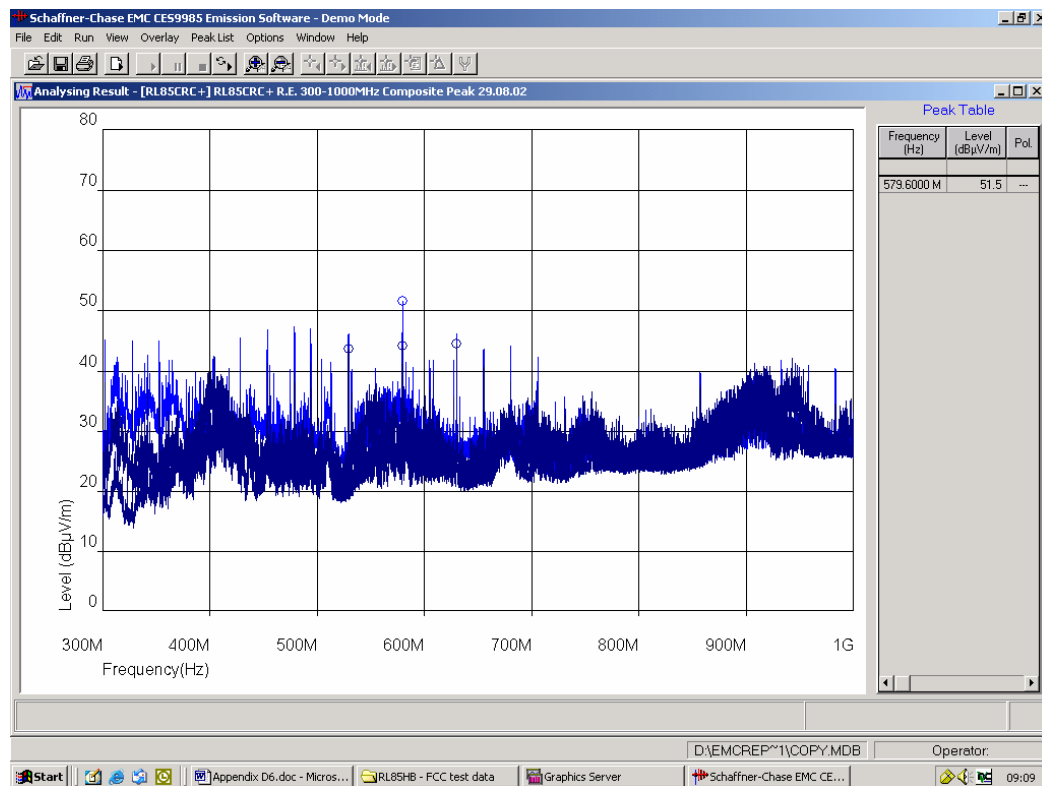
EUT: RL85CRC PLUS and RL87CRC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 24V supply.

Operator: P.Bowen

Start F	Stop F	Step	BW	Det.	Dwell	Atten.	Preamp	OpRge
300MHz	1000MHz	60kHz	120kHz	PK	20msec	0 dB	ON	70dB



Graph RE/555/1002/03

RAYMARINE LTD.

EMC Department

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

TEST REPORT

No. 555/1002

Page 37 of 79

Issue Date: 29-10-2002

TP/555/1002

30 Aug 2002

Radiated Emissions @ 3m

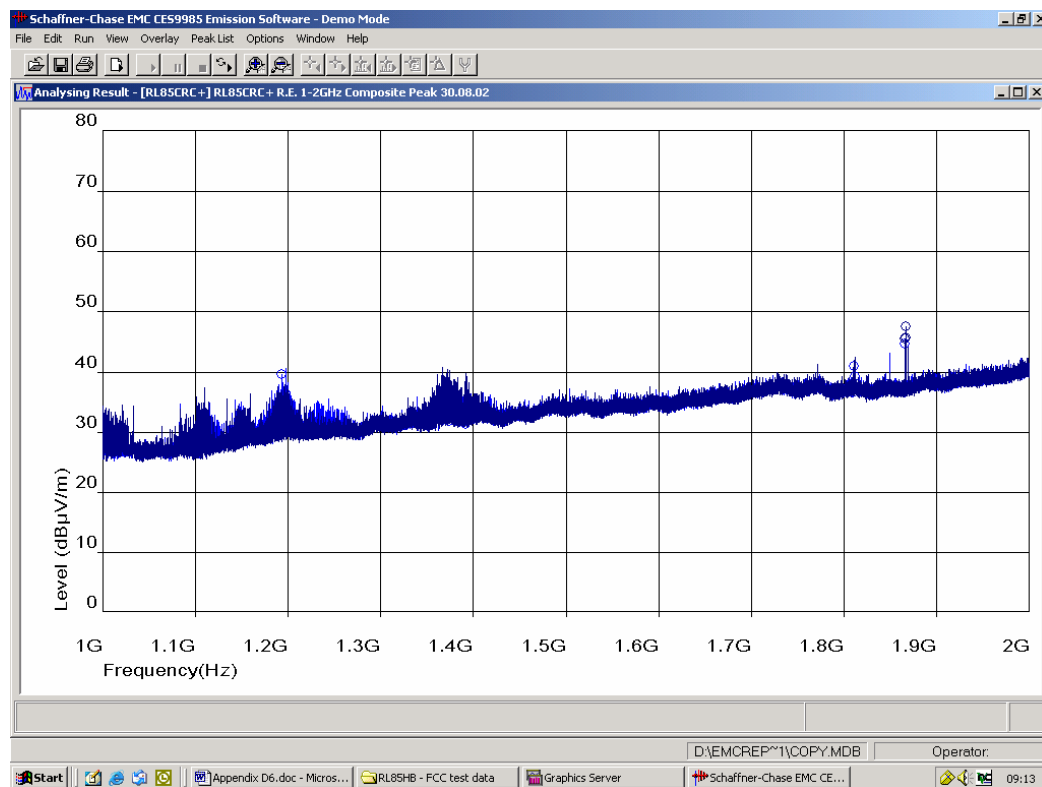
EUT: RL85CRC PLUS and RL87CRC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 24V supply.

Operator: P.Bowen

Start F	Stop F	Step	BW	Det.	Dwell	Atten.	Preamp	OpRge
1000MHz	2000MHz	60kHz	120kHz	PK	20msec	0 dB	ON	70dB



Graph RE/555/1002/04

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

TP/555/1002

02 Sep 2002

Radiated Emissions @ 3m

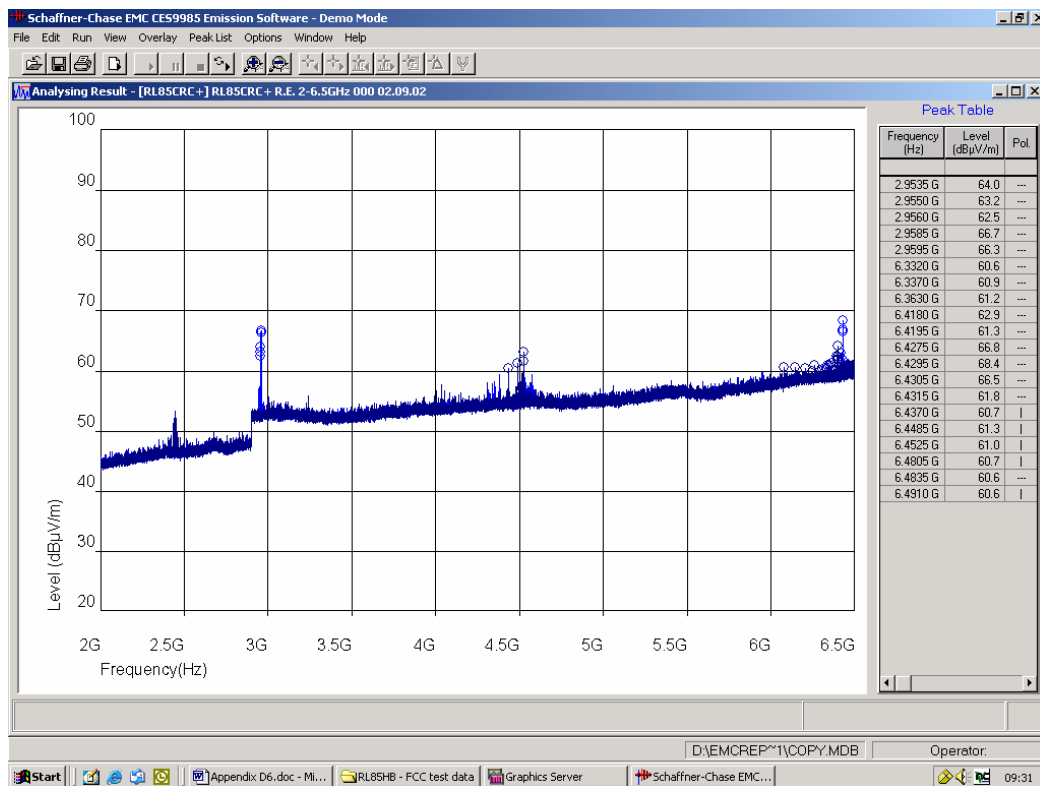
EUT: RL85CRC PLUS and RL87CRC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 24V supply.

Operator: P.Bowen

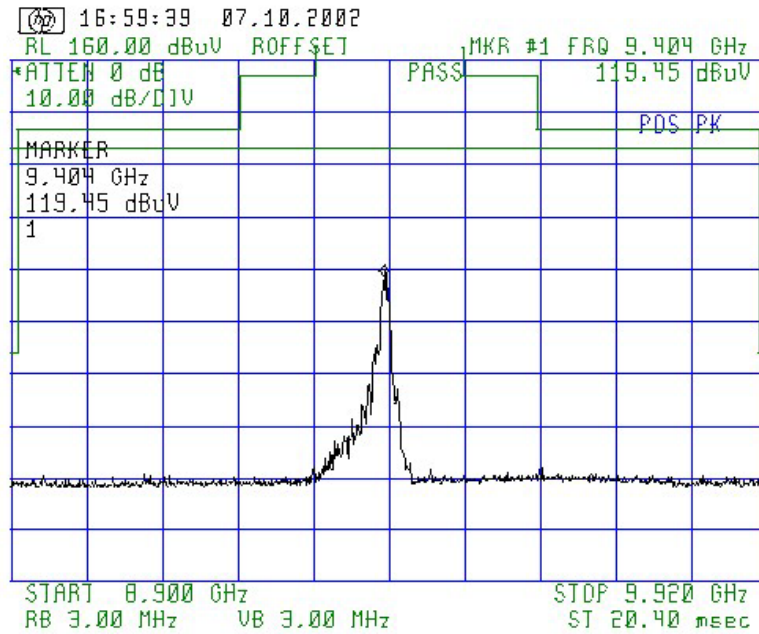
Start F	Stop F	Step	BW	Det.	Dwell	Atten.	Preamp	OpRge
2.0GHz	6.5GHz	500kHz	1MHz	PK	20msec	0 dB	ON	80dB



Graph RE/555/1002/05

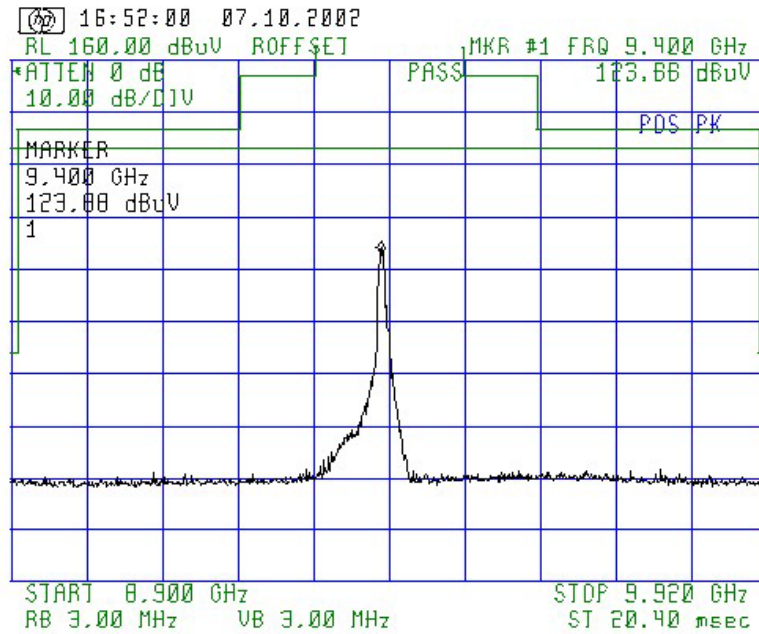
Graph RE/555/1002/06

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



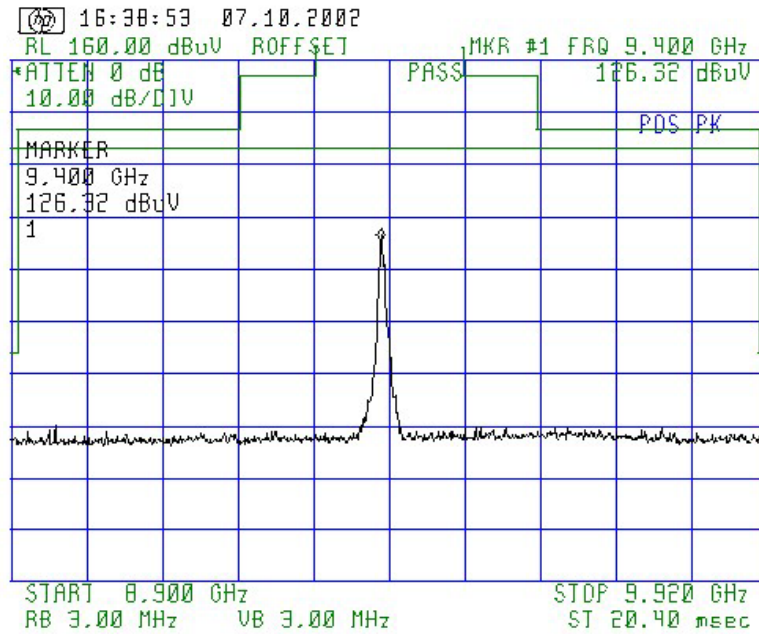
Graph RE/555/1002/07

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



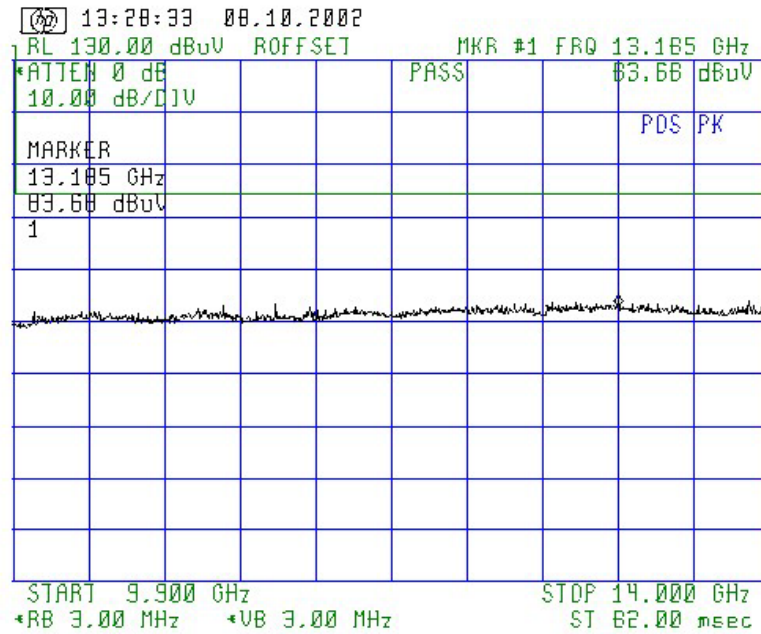
Graph RE/555/1002/08

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



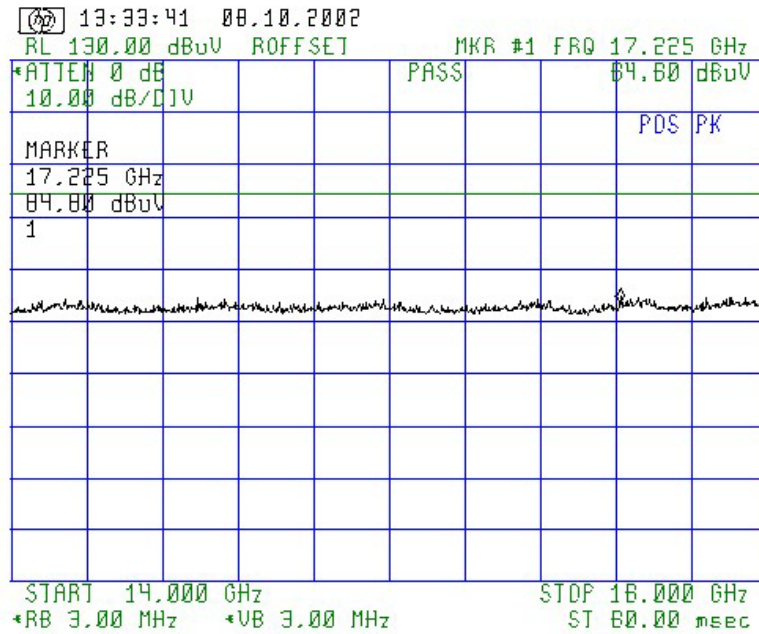
Graph RE/555/1002/09

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph RE/555/1002/10

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph RE/555/1002/11

RAYMARINE LTD.

EMC Department

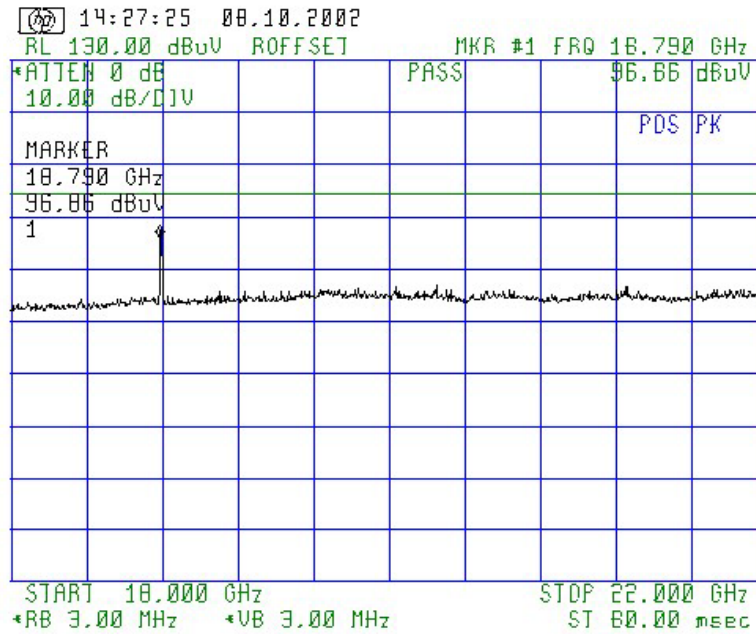
Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

TEST REPORT

No. 555/1002

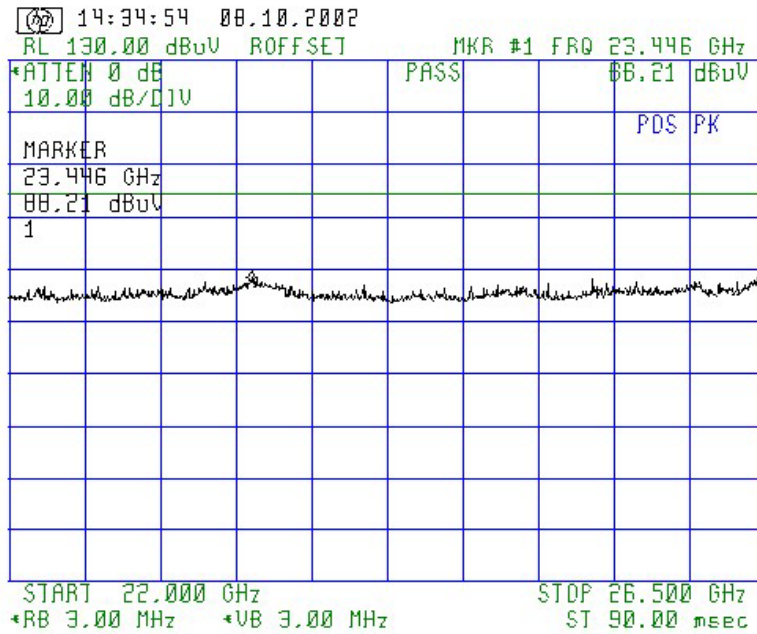
Page 45 of 79

Issue Date: 29-10-2002



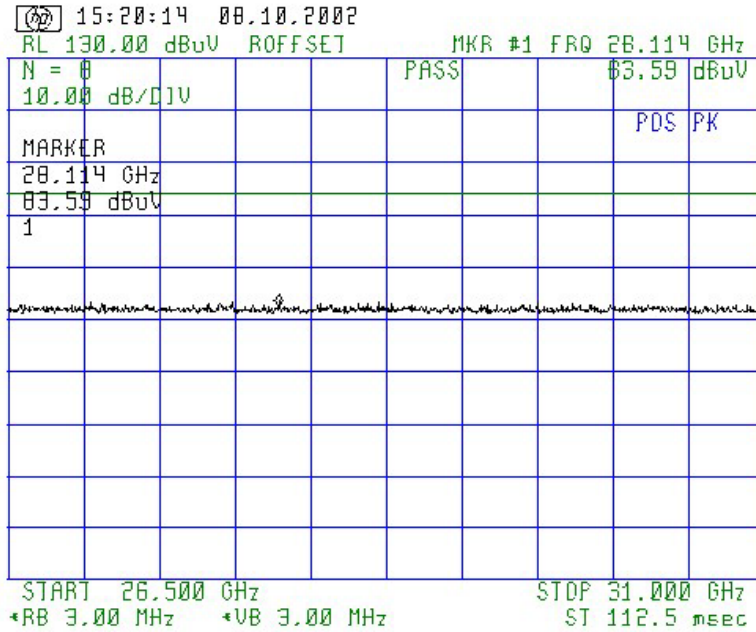
Graph RE/555/1002/12

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph RE/555/1002/13

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph RE/555/1002/14

RAYMARINE LTD.

EMC Department

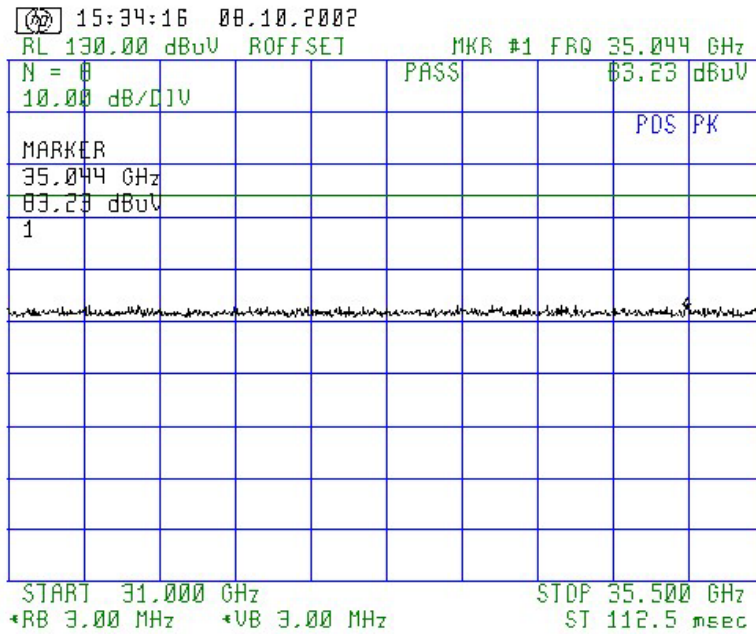
Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

TEST REPORT

No. 555/1002

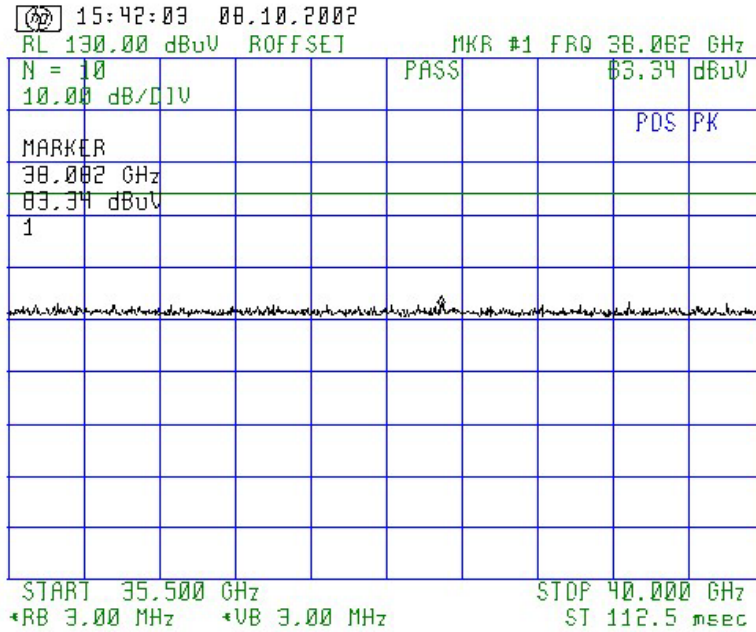
Page 48 of 79

Issue Date: 29-10-2002



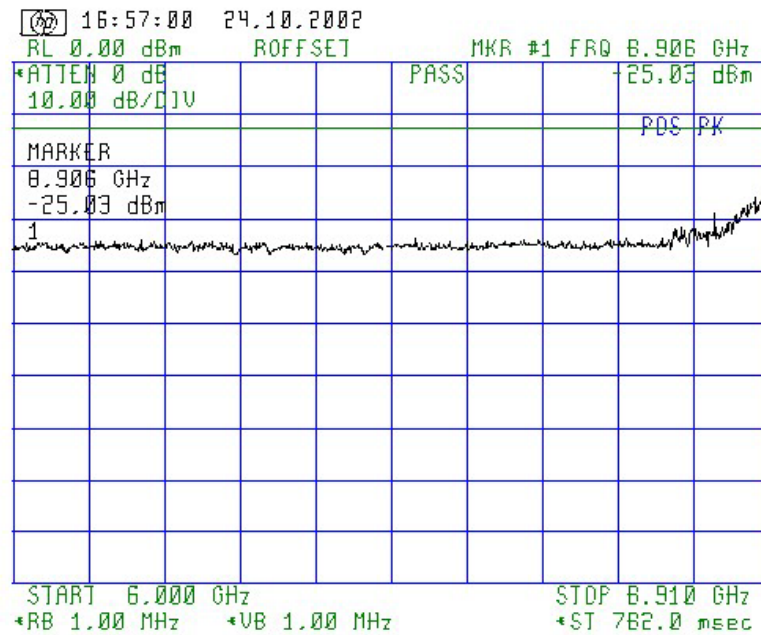
Graph RE/555/1002/15

Test of: Raymarine Ltd.
 Pathfinder RL85CRC PLUS and RL87CRC PLUS
 FCC Part 80: 1998 and
 FCC Part 2: 1998



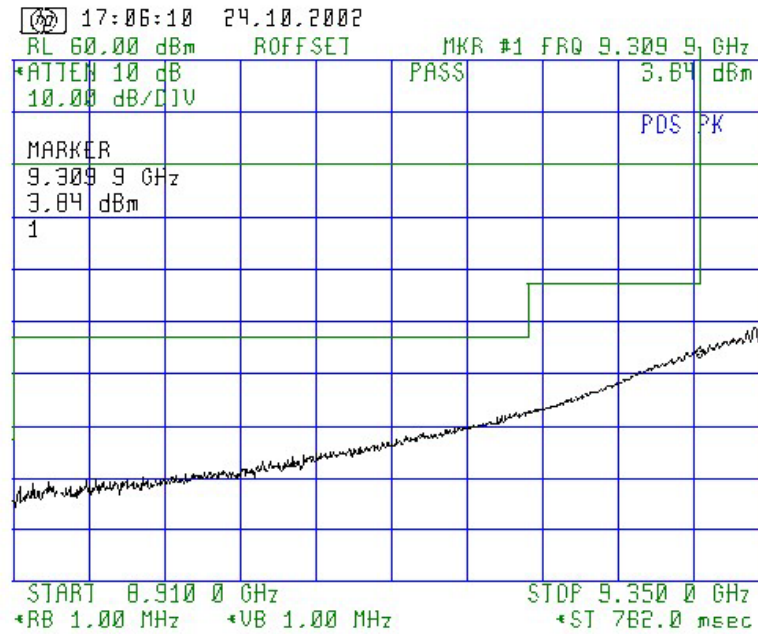
Graph RE/555/1002/16

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



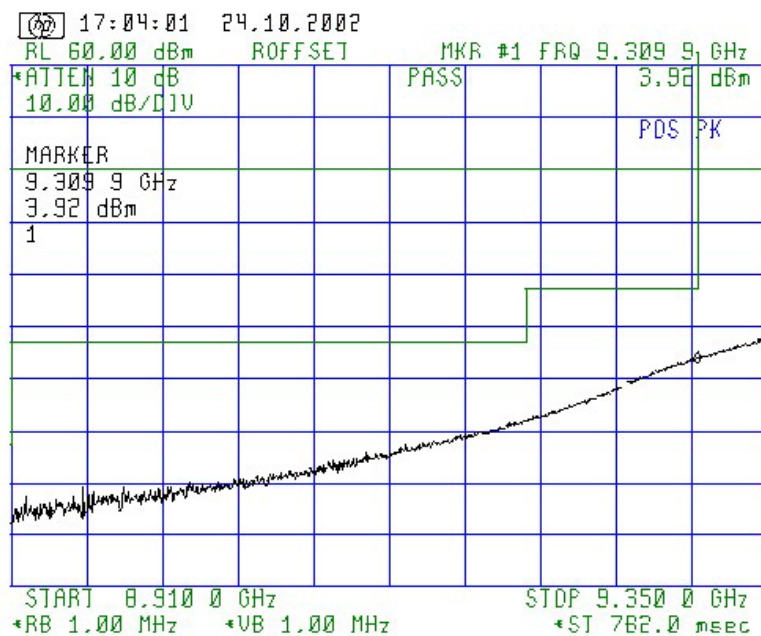
Graph CE/555/1002/01

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



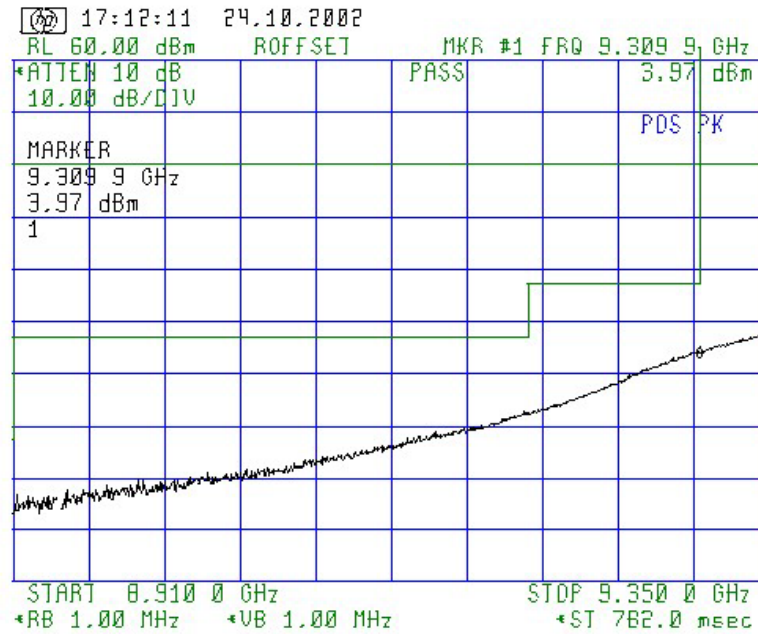
Graph CE/555/1002/02

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



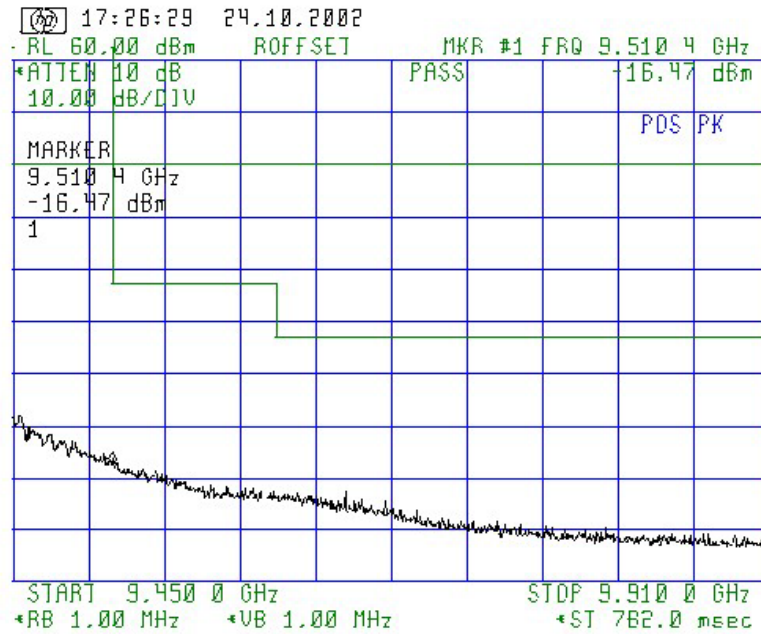
Graph CE/555/1002/03

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



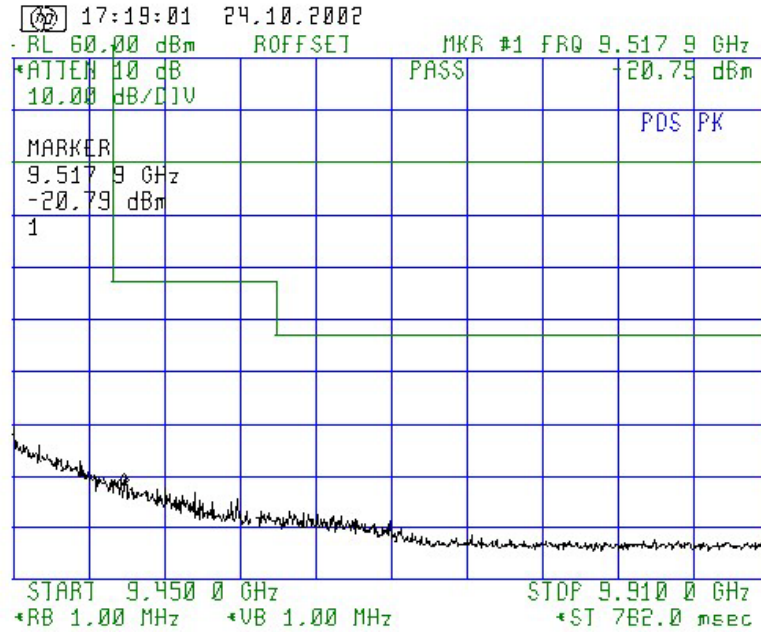
Graph CE/555/1002/04

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



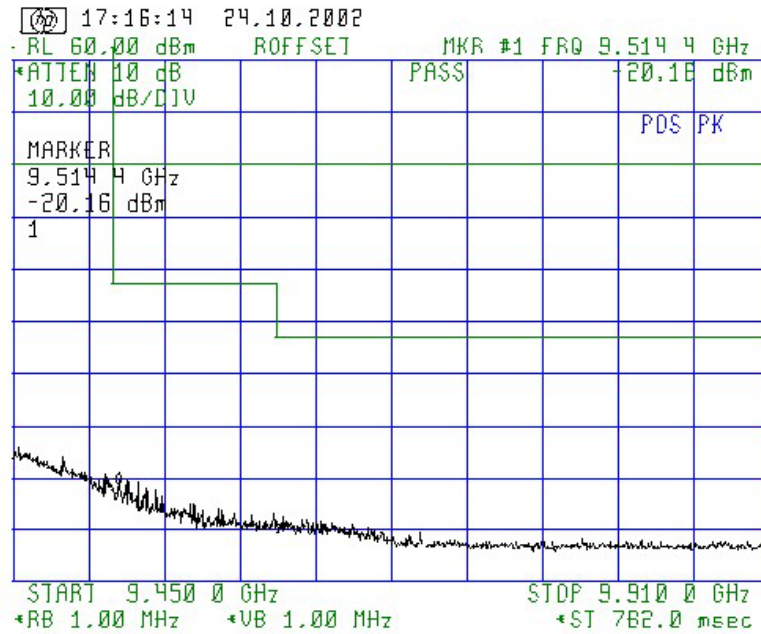
Graph CE/555/1002/05

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



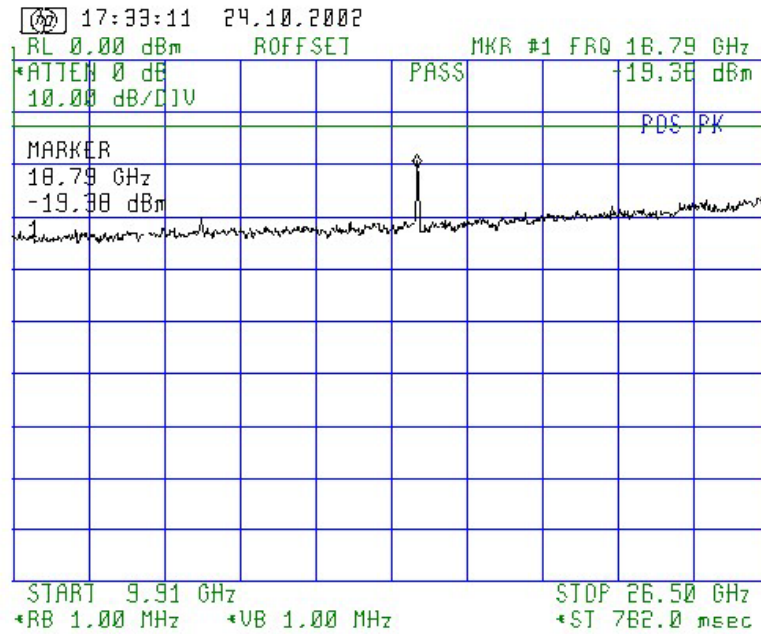
Graph CE/555/1002/06

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



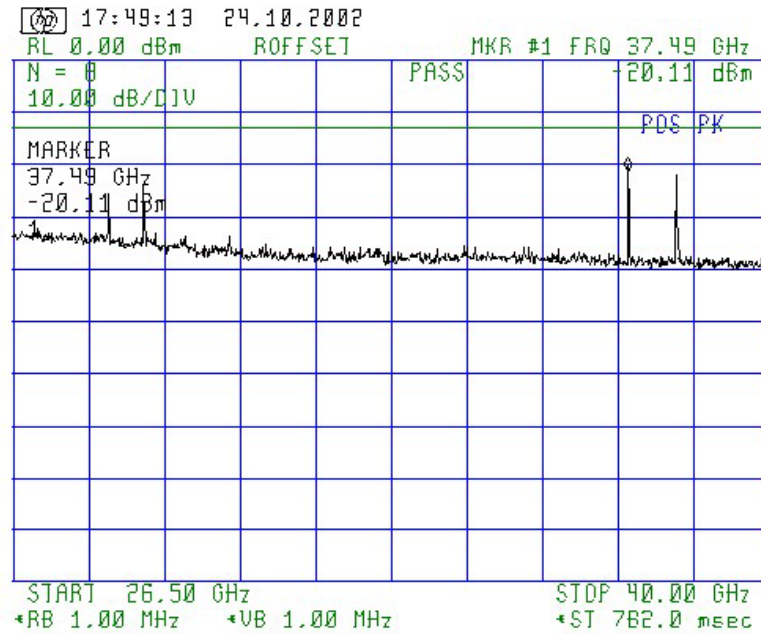
Graph CE/555/1002/07

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph CE/555/1002/08

Test of: Raymarine Ltd.
Pathfinder RL85CRC PLUS and RL87CRC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph CE/555/1002/09