

Test of: Raymarine Ltd.
 Pathfinder RL72RC PLUS
 FCC Part 80: 1998 and
 FCC Part 2: 1998

Appendix D Graphical Test Results

Graph No.	Software	Description
RE/555/1000/01	R&S EsXs-k1	Radiated Emissions 450ns PW 9 kHz to 150 kHz
RE/555/1000/02	R&S EsXs-k1	Radiated Emissions 450ns PW 150 kHz to 30 MHz
RE/555/1000/03	R&S EsKs-k1	Radiated Emissions 450ns PW 30 MHz to 300 MHz
RE/555/1000/04	R&S EsKs-k1	Radiated Emissions 450ns PW 300 MHz to 1 GHz
RE/555/1000/05	H-P 85878A	Radiated Emissions 450ns PW 1 GHz to 2 GHz
RE/555/1000/06	P&HT Plottergeist	Radiated Emissions 450ns PW 2 GHz to 6.5 GHz
RE/555/1000/07	P&HT Plottergeist	Radiated Emissions 450ns PW 6.5 GHz to 8.92 GHz
RE/555/1000/08	P&HT Plottergeist	Radiated Emissions 75ns PW 8.9 GHz to 9.92 GHz
RE/555/1000/09	P&HT Plottergeist	Radiated Emissions 450ns PW 8.9 GHz to 9.92 GHz
RE/555/1000/10	P&HT Plottergeist	Radiated Emissions 1000ns PW 8.9 GHz to 9.92 GHz
RE/555/1000/11	P&HT Plottergeist	Radiated Emissions 450ns PW 9.9 GHz to 14 GHz
RE/555/1000/12	P&HT Plottergeist	Radiated Emissions 450ns PW 14 GHz to 18 GHz
RE/555/1000/13	P&HT Plottergeist	Radiated Emissions 450ns PW 18 GHz to 22 GHz
RE/555/1000/14	P&HT Plottergeist	Radiated Emissions 450ns PW 22 GHz to 26.5GHz
RE/555/1000/15	P&HT Plottergeist	Radiated Emissions 450ns PW 26.5 GHz to 31 GHz
RE/555/1000/16	P&HT Plottergeist	Radiated Emissions 450ns PW 31 GHz to 35.5 GHz
RE/555/1000/17	P&HT Plottergeist	Radiated Emissions 450ns PW 35.5 GHz to 40 GHz
CE/555/1000/01	P&HT Plottergeist	Conducted Emissions 450ns PW 6 GHz to 8.91 GHz
CE/555/1000/02	P&HT Plottergeist	Conducted Emissions 75ns PW 8.91 GHz to 9.35 GHz
CE/555/1000/03	P&HT Plottergeist	Conducted Emissions 450ns PW 8.91 GHz to 9.35 GHz
CE/555/1000/04	P&HT Plottergeist	Conducted Emissions 1000ns PW 8.91 GHz to 9.35 GHz
CE/555/1000/05	P&HT Plottergeist	Conducted Emissions 1000ns PW 9.45 GHz to 9.93 GHz
CE/555/1000/06	P&HT Plottergeist	Conducted Emissions 75ns PW 9.45 GHz to 9.93 GHz
CE/555/1000/07	P&HT Plottergeist	Conducted Emissions 450ns PW 9.45 GHz to 9.93 GHz
CE/555/1000/08	P&HT Plottergeist	Conducted Emissions 450ns PW 9.91 GHz to 26.5 GHz
CE/555/1000/09	P&HT Plottergeist	Conducted Emissions 450ns PW 26.5 GHz to 40 GHz
PP/555/1000/01	HP8991A Plot	Peak Power & Pulsewidth 75ns
PP/555/1000/02	HP8991A Plot	Peak Power & Pulsewidth 100ns
PP/555/1000/03	HP8991A Plot	Peak Power & Pulsewidth 150ns
PP/555/1000/04	HP8991A Plot	Peak Power & Pulsewidth 250ns
PP/555/1000/05	HP8991A Plot	Peak Power & Pulsewidth 350ns
PP/555/1000/06	HP8991A Plot	Peak Power & Pulsewidth 450ns
PP/555/1000/07	HP8991A Plot	Peak Power & Pulsewidth 600ns
PP/555/1000/08	HP8991A Plot	Peak Power & Pulsewidth 1000ns
PRF/555/1000/01	HP8991A Plot	Jitter Band – 740 Hz PRF
PRF/555/1000/02	HP8991A Plot	Averaged PRF – 740 Hz
PRF/555/1000/03	HP8991A Plot	Jitter Band – 1000 Hz PRF
PRF/555/1000/04	HP8991A Plot	Averaged PRF – 1000 Hz
PRF/555/1000/05	HP8991A Plot	Jitter Band – 1400 Hz PRF
PRF/555/1000/06	HP8991A Plot	Averaged PRF – 1400 Hz
PRF/555/1000/07	HP8991A Plot	Jitter Band – 1800 Hz PRF
PRF/555/1000/08	HP8991A Plot	Averaged PRF – 1800 Hz
PRF/555/1000/09	HP8991A Plot	Jitter Band – 2500 Hz PRF
PRF/555/1000/10	HP8991A Plot	Averaged PRF – 2500 Hz
PRF/555/1000/11	HP8991A Plot	Jitter Band – 3000 Hz PRF
PRF/555/1000/12	HP8991A Plot	Averaged PRF – 3000 Hz

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OBW/555/1000/01 P&HT Plottergeist	Occupied Bandwidth Upper Edge – 75ns Pulsewidth
OBW/555/1000/02 P&HT Plottergeist	Occupied Bandwidth Lower Edge – 75ns Pulsewidth
OBW/555/1000/03 P&HT Plottergeist	Occupied Bandwidth Upper Edge – 100ns Pulsewidth
OBW/555/1000/04 P&HT Plottergeist	Occupied Bandwidth Lower Edge – 100ns Pulsewidth
OBW/555/1000/05 P&HT Plottergeist	Occupied Bandwidth Upper Edge – 150ns Pulsewidth
OBW/555/1000/06 P&HT Plottergeist	Occupied Bandwidth Lower Edge – 150ns Pulsewidth
OBW/555/1000/07 P&HT Plottergeist	Occupied Bandwidth Upper Edge – 250ns Pulsewidth
OBW/555/1000/08 P&HT Plottergeist	Occupied Bandwidth Lower Edge – 250ns Pulsewidth
OBW/555/1000/09 P&HT Plottergeist	Occupied Bandwidth Upper Edge – 350ns Pulsewidth
OBW/555/1000/10 P&HT Plottergeist	Occupied Bandwidth Lower Edge – 350ns Pulsewidth
OBW/555/1000/11 P&HT Plottergeist	Occupied Bandwidth Upper Edge – 450ns Pulsewidth
OBW/555/1000/12 P&HT Plottergeist	Occupied Bandwidth Lower Edge – 450ns Pulsewidth
OBW/555/1000/13 P&HT Plottergeist	Occupied Bandwidth 600ns Pulsewidth
OBW/555/1000/14 P&HT Plottergeist	Occupied Bandwidth 1000ns Pulsewidth

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TP/555/1000

01 Oct 2002 13:55

Radiated Emissions @ 3m (Loop Antenna)

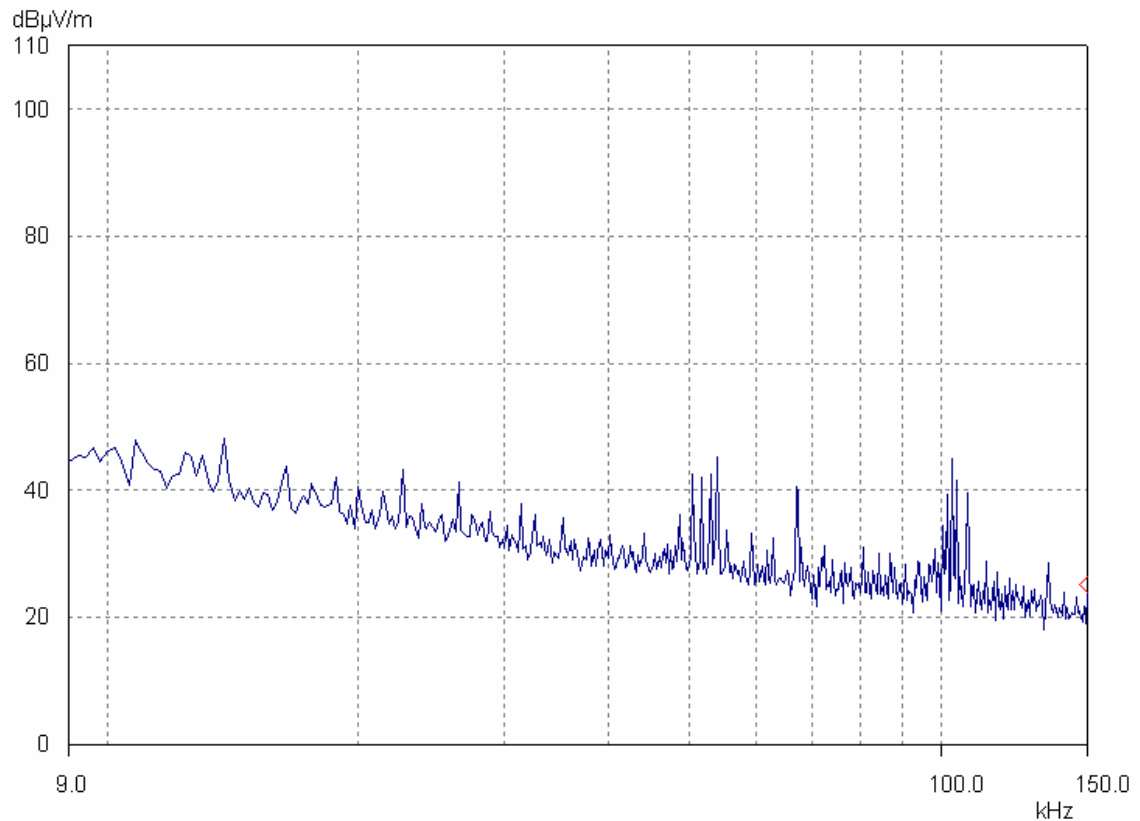
EUT: RL72RC HB

Mfr: Raymarine Ltd.

Op.Cond: 12V supply.

Operator: P.Bowen

Start F	Stop F	BW	Step	Det.	Dwell	Atten.	Preamp	OpRge
9kHz	150kHz	200Hz	200Hz	PK	10msec	Auto	OFF	60dB



Graph RE/555/1000/01

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01 Oct 2002 12:44

Radiated Emissions @ 3m (Loop Antenna)

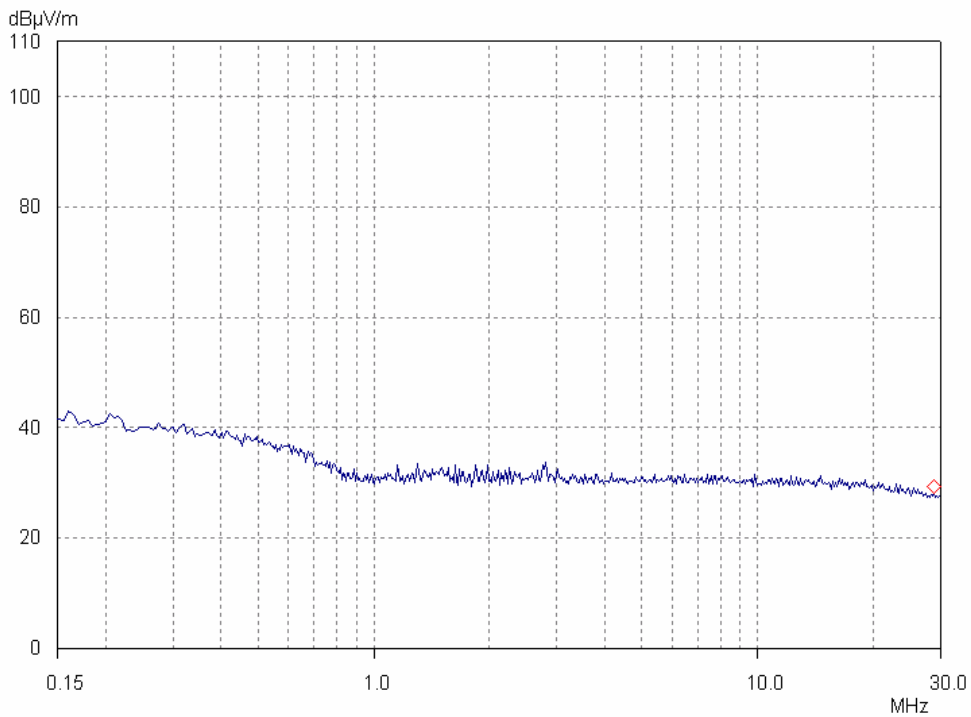
EUT: RL72RC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 12V supply.

Operator: P.Bowen

Start F	Stop F	BW	Step	Det.	Dwell	Atten.	Preamp	OpRge
150kHz	30MHz	10kHz	5kHz	PK	10msec	0dB	ON	60dB



Graph RE/555/1000/02

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998

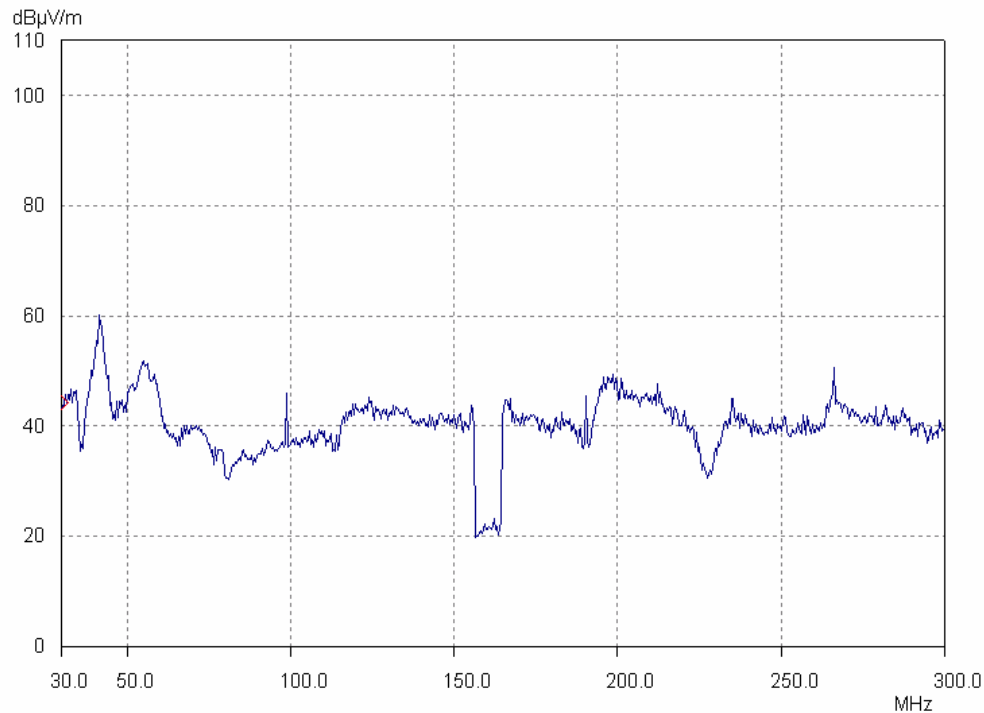
TP/555/1000

30 Sep 2002 15:52

Radiated Emissions @ 3m

EUT: RL72RC PLUS**Mfr:** Raymarine Ltd.**Op.Cond:** 12V supply.**Operator:** P.Bowen

Start F	Stop F	Step	BW	Det.	Dwell	Atten.	Preamp	OpRge
30MHz	156MHz	60kHz	120kHz	PK	5msec	0 dB	ON	60dB
156MHz	165MHz	5kHz	10kHz	PK	5msec	0 dB	ON	60dB
165MHz	300MHz	60kHz	120kHz	PK	5msec	0 dB	ON	60dB



Graph RE/555/1000/03

Note: The change in the noise floor level near the centre of the frequency range is due to a bandwidth change from 120kHz to 10kHz to accommodate a requirement for European EMC testing of marine products over the range 156-165MHz. It has no relevance to FCC testing.

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30 Sep 2002 12:43

Radiated Emissions @ 3m

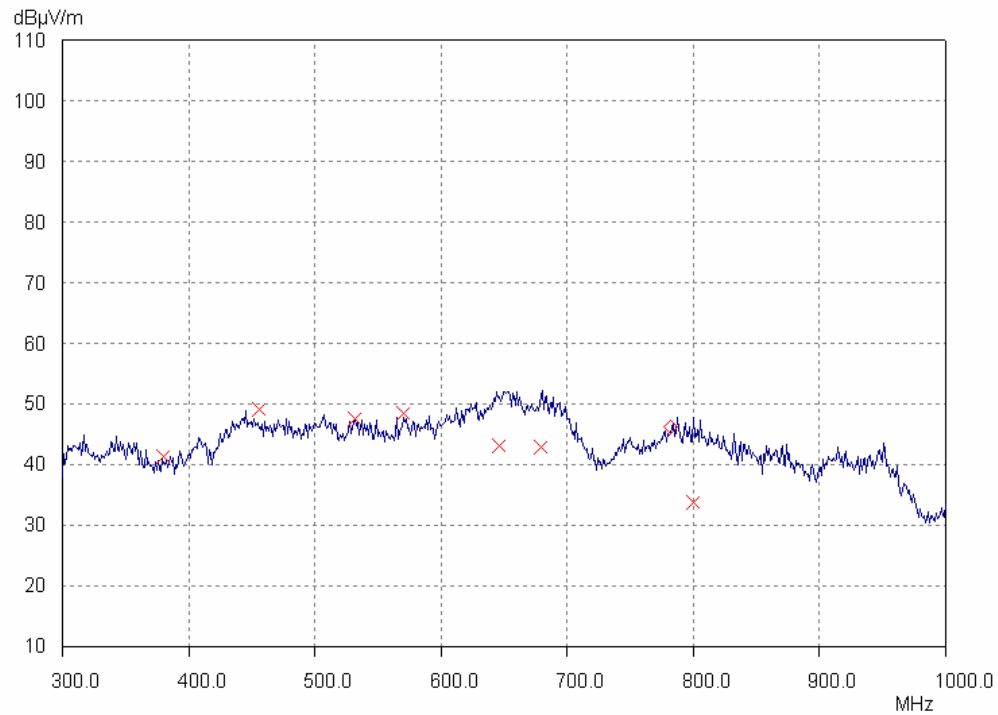
EUT: RL72RC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 12V supply.

Operator: P.Bowen

Start F	Stop F	Step	BW	Det.	Dwell	Atten.	Preamp	OpRge
300MHz	1000MHz	60kHz	120kHz	PK	10msec	0 dB	ON	60dB



Graph RE/555/1000/04

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30 Sep 2002 15:13

Radiated Emissions @ 3m

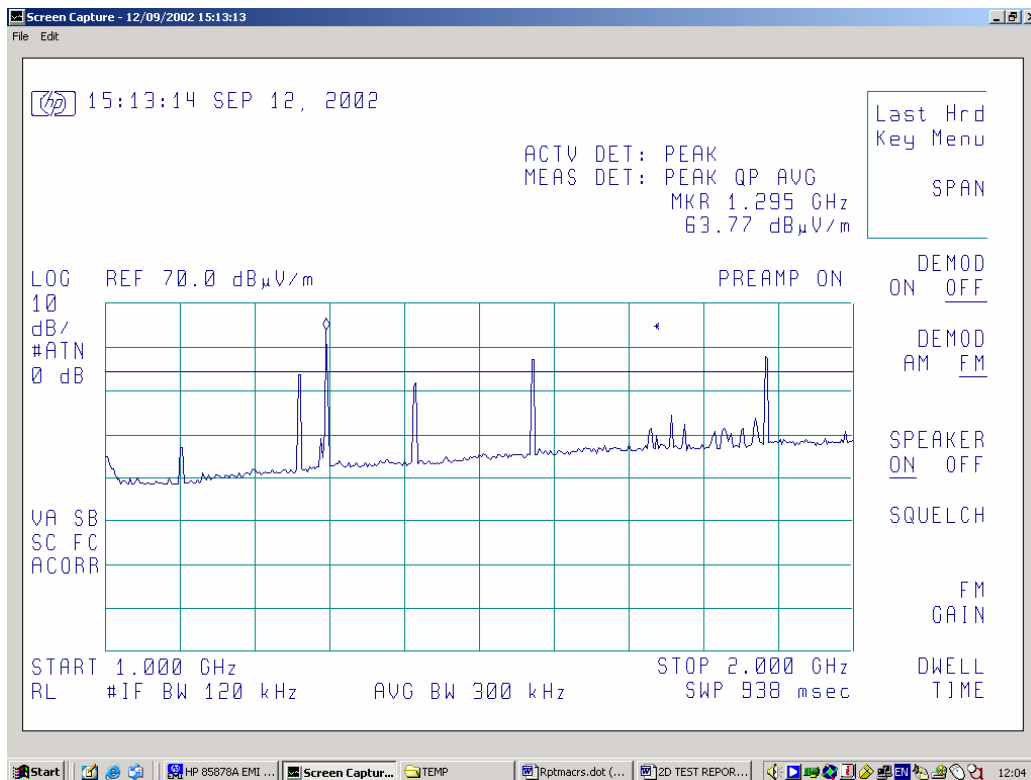
EUT: RL72RC PLUS

Mfr: Raymarine Ltd.

Op.Cond: 12V supply.

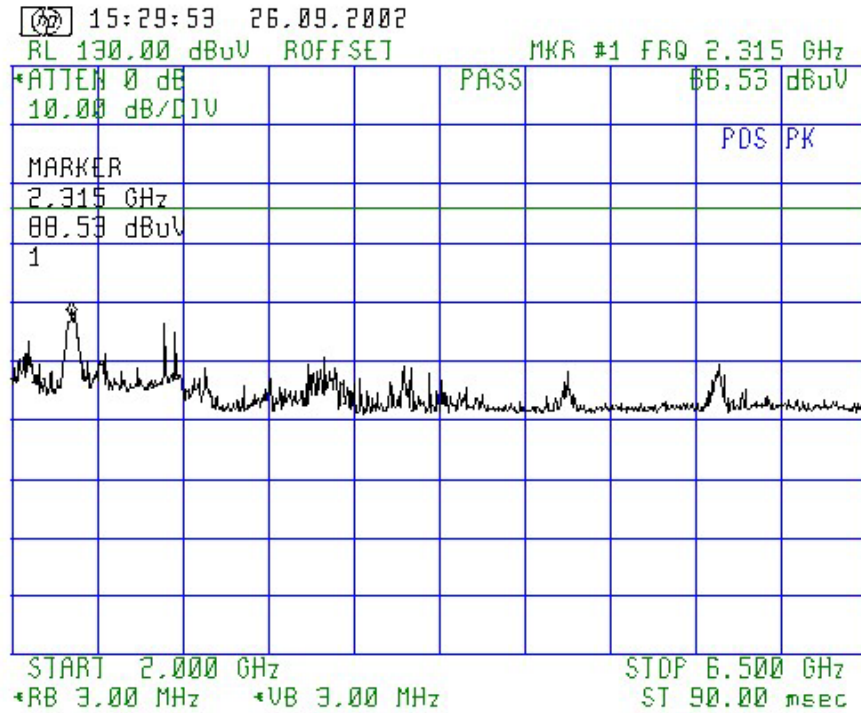
Operator: P.Bowen

Start F	Stop F	Step	BW	Det.	Sweep	Atten.	Preamp	OpRge
1.0GHz	2.0GHz	60kHz	120kHz	PK	938msec	0 dB	ON	80dB



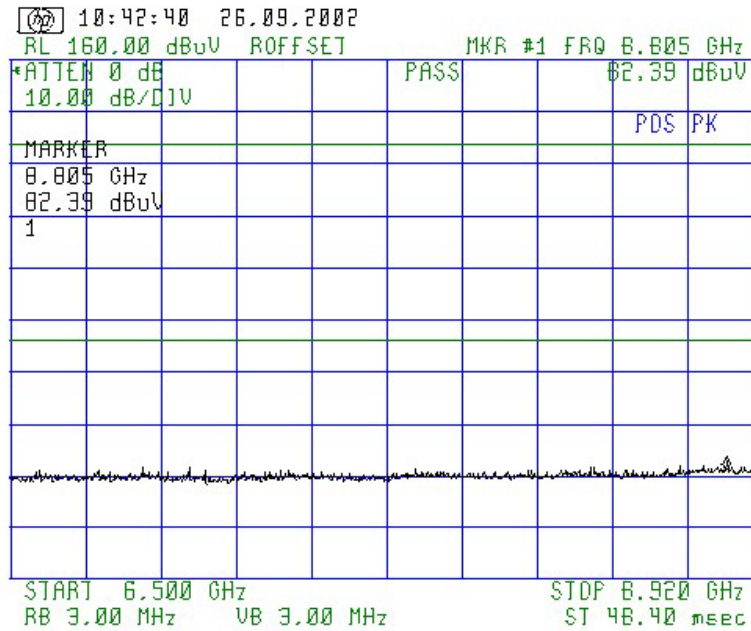
Graph RE/555/1000/05

Test of: Raymarine Ltd.
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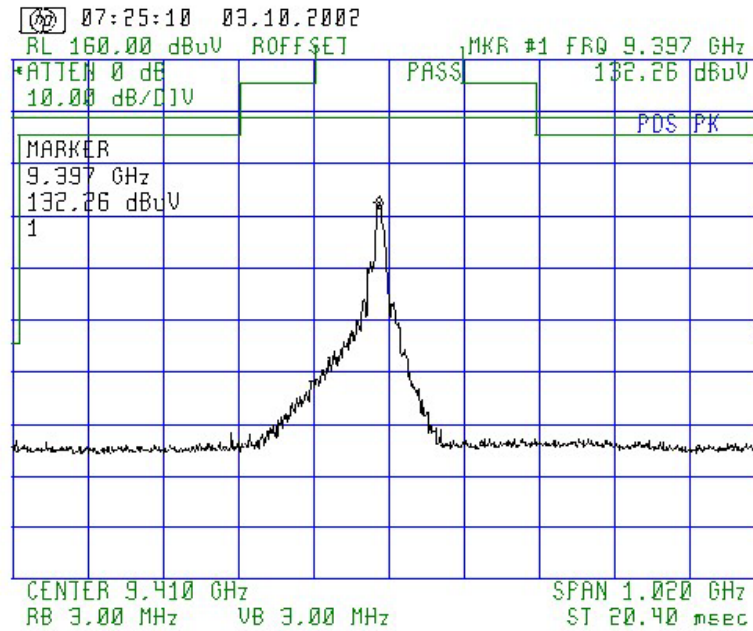
Graph RE/555/1000/06

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



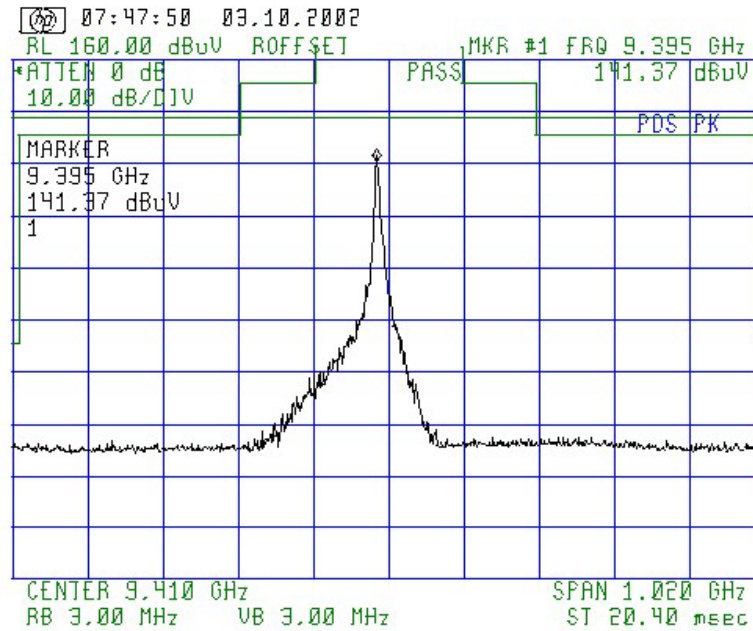
Graph RE/555/1000/07

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
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FCC Part 2: 1998



Graph RE/555/1000/08

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph RE/555/1000/09

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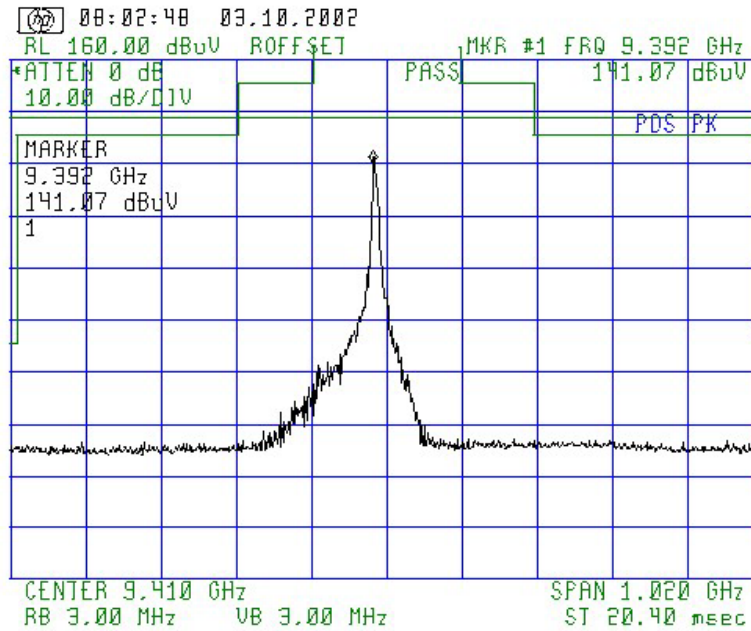
Test of: Raymarine Ltd.
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FCC Part 80: 1998 and
FCC Part 2: 1998

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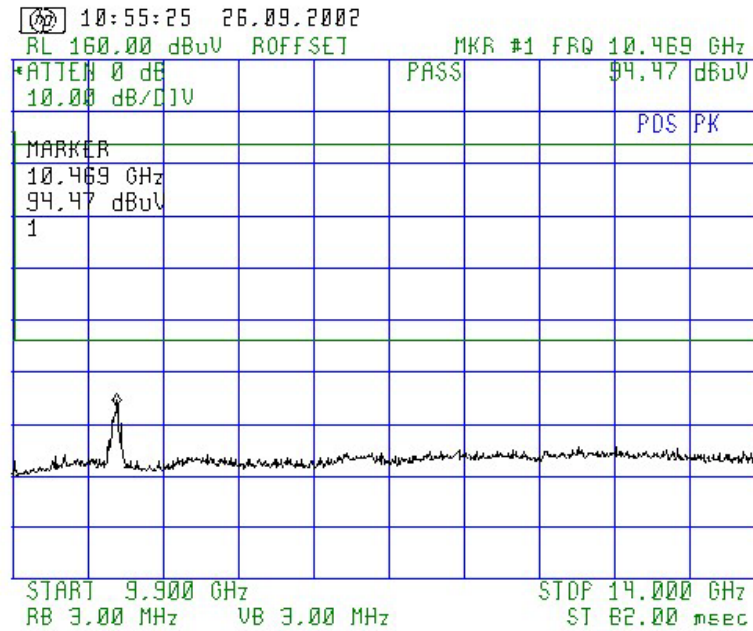
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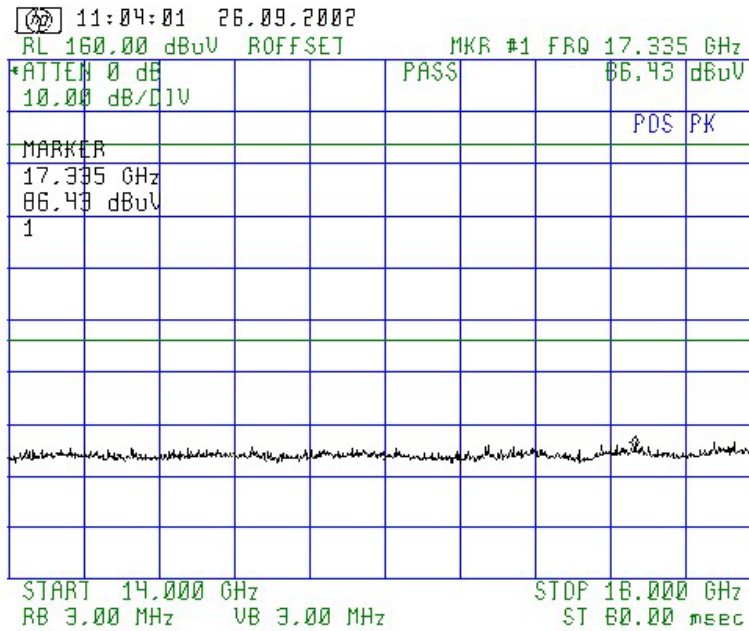
Graph RE/555/1000/10

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Graph RE/555/1000/11

Test of: Raymarine Ltd.
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Graph RE/555/1000/12

Graph RE/555/1000/13

Graph RE/555/1000/14

Graph RE/555/1000/15

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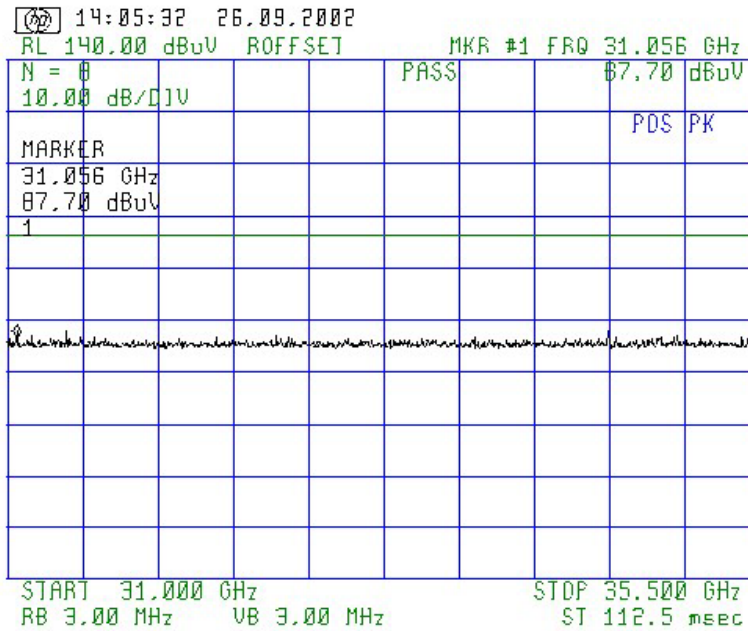
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Graph RE/555/1000/16

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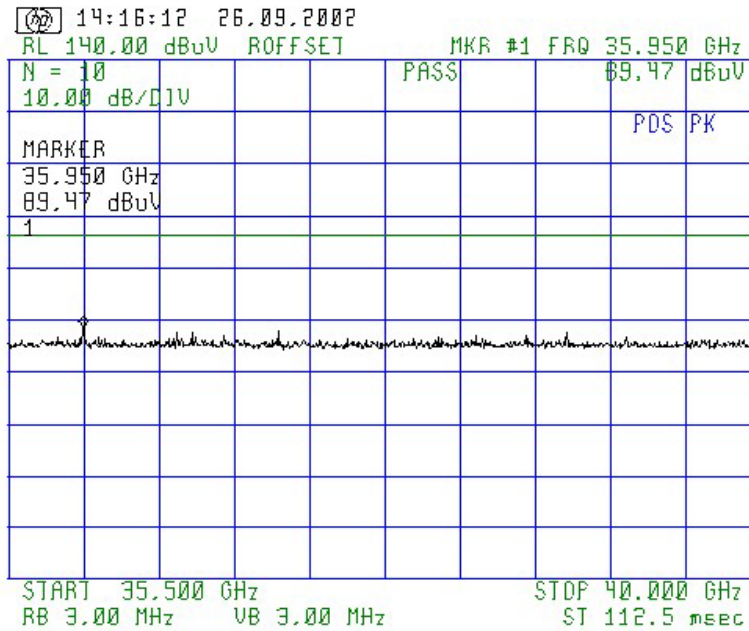
Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
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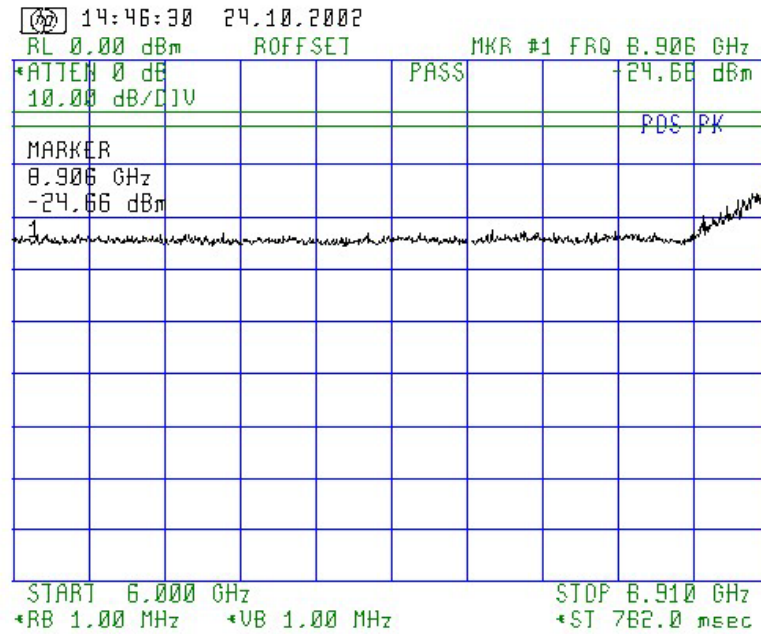
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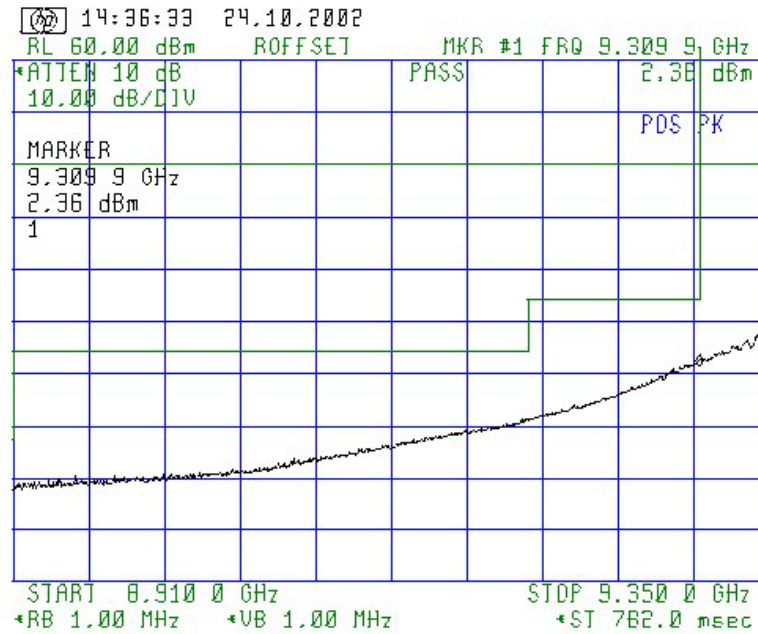
Graph RE/555/1000/17

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
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FCC Part 2: 1998



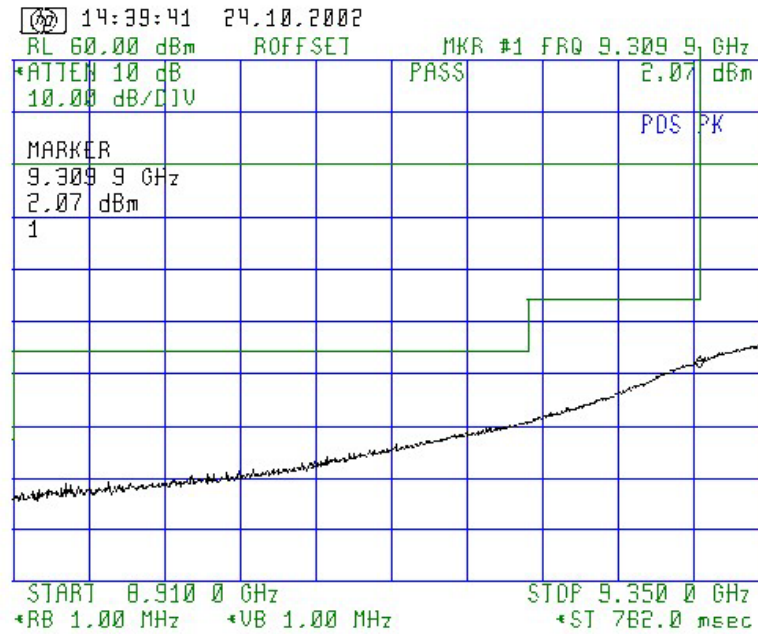
Graph CE/555/1000/01

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



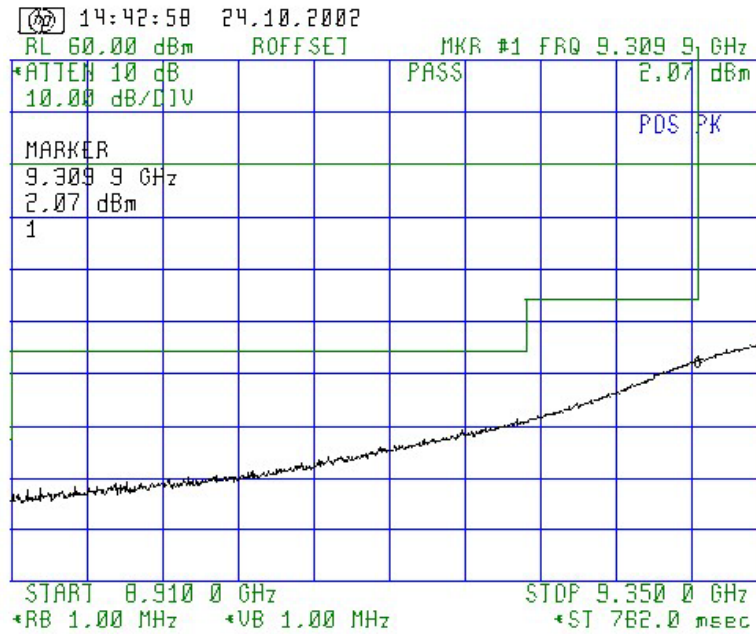
Graph CE/555/1000/02

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



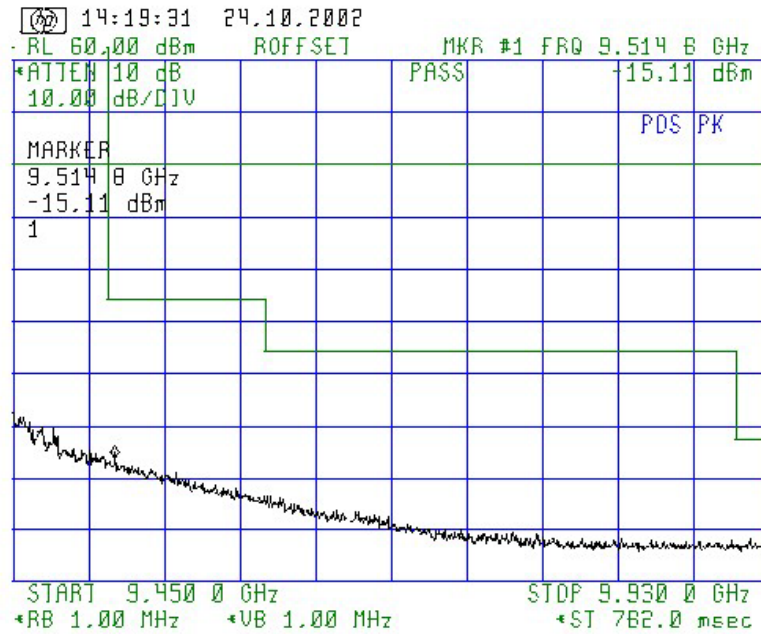
Graph CE/555/1000/03

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



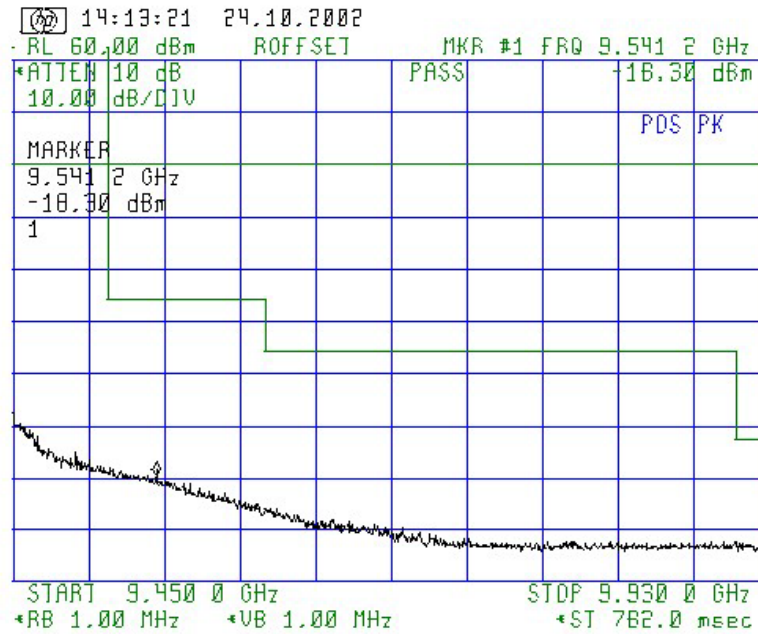
Graph CE/555/1000/04

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Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



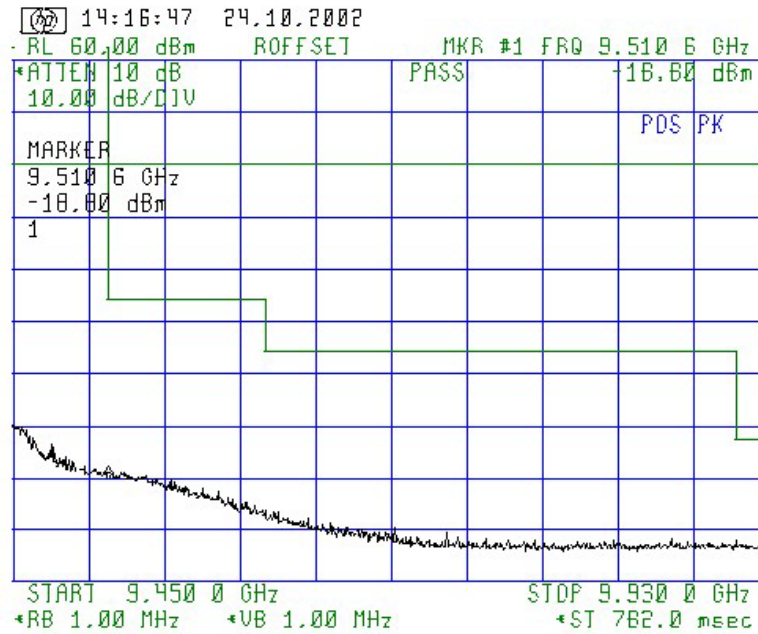
Graph CE/555/1000/05

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FCC Part 80: 1998 and
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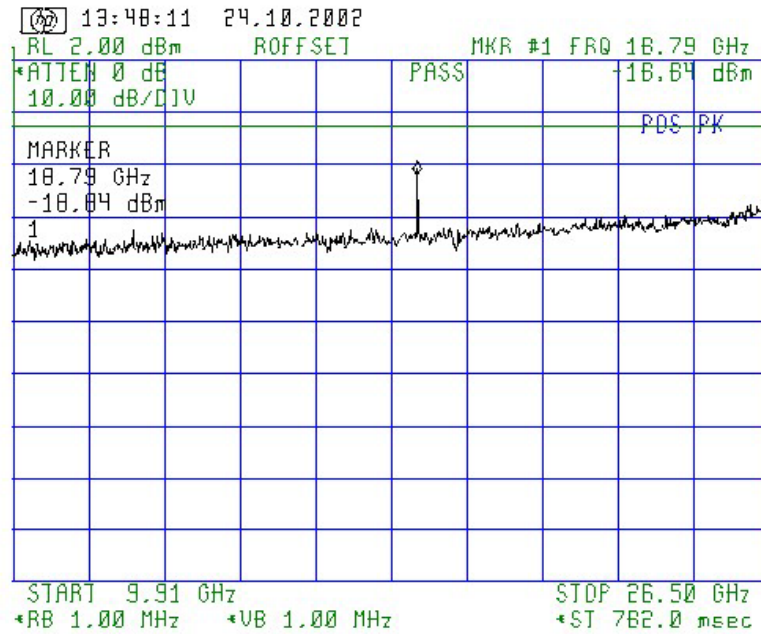
Graph CE/555/1000/06

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



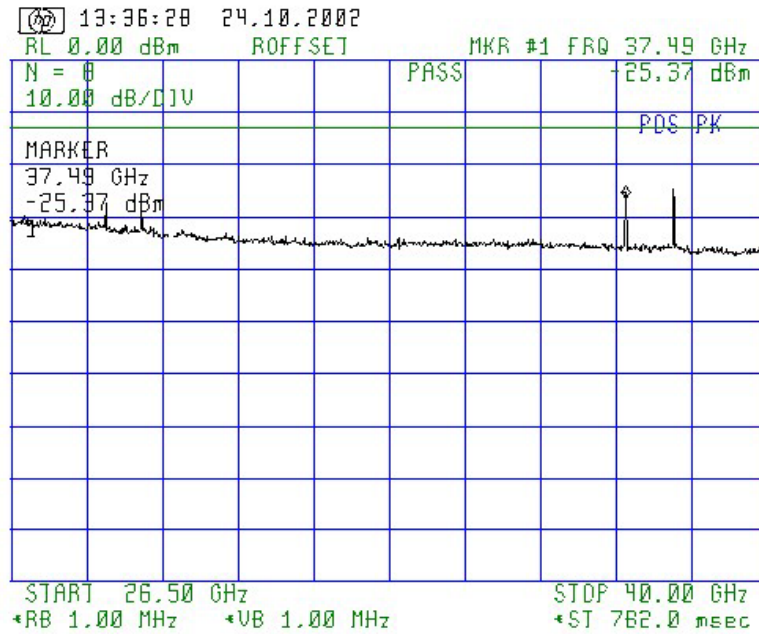
Graph CE/555/1000/07

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Graph CE/555/1000/08

Test of: Raymarine Ltd.
Pathfinder RL72RC PLUS
FCC Part 80: 1998 and
FCC Part 2: 1998



Graph CE/555/1000/09