

Test Of: Raytheon Marine Pathfinder R75RC
To: FCC Part 80 and FCC Part 2

Appendix 4. Graphical Test Results

This appendix contains the following graphs:

Graph Reference Number	Title P.R.F Graphs
GPH/38756/001	60ns, 3 kHz PRF, ½ mile range
GPH/38756/002	90ns, 3 kHz PRF, ½ mile range, Pulse Expansion On
GPH/38756/003	150ns, 3 kHz PRF, ¾ mile range, Pulse Expansion On
GPH/38756/004	250ns, 3 kHz PRF, 1 ½ mile range
GPH/38756/005	350ns, 2 kHz PRF, 1 ½ mile range
GPH/38756/006	450ns, 1.6 kHz PRF, 3 mile range
GPH/38756/007	600ns, 1.2 kHz PRF, 3 mile range, Pulse Expansion On
GPH/38756/008	1ns, 740 Hz PRF, 6 mile range
Graph Reference Number	Title Radiated Spurious Emissions
GPH/38756/JD01/901	Spurious Emissions 8.2 GHz to 12.5 GHz
GPH/38756/JD01/902	Spurious Emissions 12.5 GHz to 18 GHz
GPH/38756/JD01/903	Spurious Emissions 18 GHz to 26.5 GHz
GPH/38756/JD01/904	Spurious Emissions 26.5 GHz to 40 GHz
GPH/38756/JD01/905	Spurious Emissions 40 GHz to 60 GHz
GPH/38756/JD01/906	Spurious Emissions 59 GHz to 74.999 GHz
GPH/38756/JD01/907	Spurious Emissions 74.999 GHz to 95.010 GHz
GPH/38756/JD01/908	Spurious Emissions 4 GHz to 6 GHz
GPH/38756/JD01/909	Spurious Emissions 6 GHz to 8.2 GHz
GPH/38756/JD01/910	Spurious Emissions 1 GHz to 2 GHz
GPH/38756/JD01/911	Spurious Emissions 2 GHz to 4 GHz
GPH/38756/JD01/912	Spurious Emissions 9 kHz to 150 kHz
GPH\38673\JD01\ETF01\005	Scan of radiated emissions, transmit mode (30 MHz to 1 GHz)
GPH\38673\JD01\ETF01\007	Scan of radiated emissions, transmit mode (150 MHz to 30 MHz)
Graph Reference Number	Title Conducted Spurious Emissions
GPH/38756/JD01/001	Spurious Emissions 9 kHz to 150 kHz
GPH/38756/JD01/002	Spurious Emissions 0.15 MHz to 30 MHz
GPH/38756/JD01/003	Spurious Emissions 30 MHz to 1 GHz
GPH/38756/JD01/004	Spurious Emissions 1 GHz to 8 GHz

RADIO FREQUENCY INVESTIGATION LTD.**Microwave Type Approval Department****Test Of: Raytheon Marine Pathfinder R75RC**
To: FCC Part 80 and FCC Part 2**TEST REPORT****S.No. RFI/MICB2/RP38756JD01****Page 36 of 37****Issue Date: 25 May 1999**

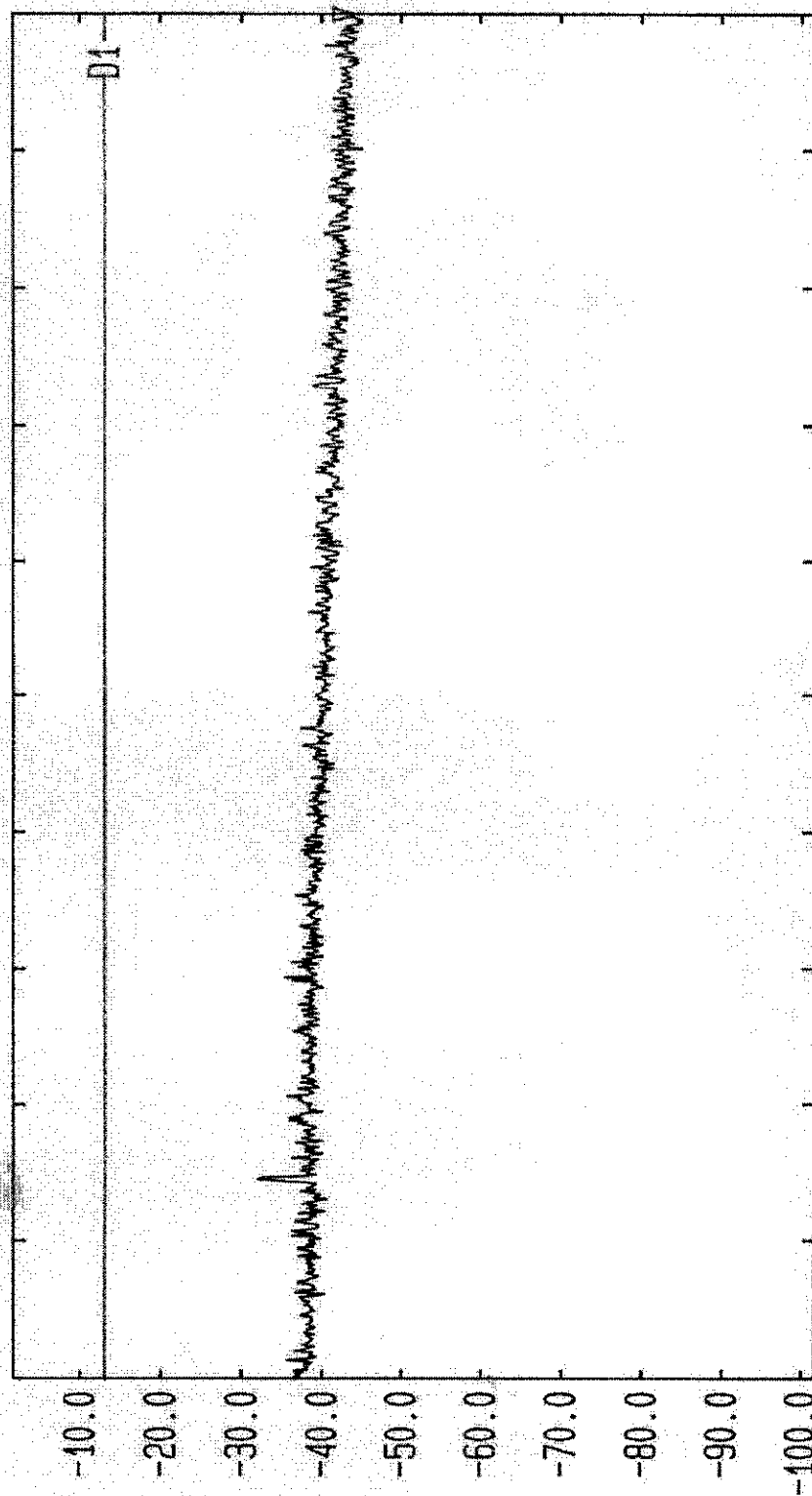
Graph Reference Number	Title Conducted Spurious Emissions
GPH/38756/JD01/005	Spurious Emissions 8 GHz to 9 GHz
GPH/38756/JD01/006	Spurious Emissions 9.5 GHz to 12 GHz
GPH/38756/JD01/007	Spurious Emissions 12 GHz to 20 GHz
GPH/38756/JD01/008	Spurious Emissions 20 GHz to 26.5 GHz
GPH/38756/JD01/041	Spurious Emissions 26.5 GHz to 40 GHz
GPH/38756/JD01/042	Spurious Emissions 40 GHz to 60 GHz
GPH/38756/JD01/043	Spurious Emissions 60 GHz to 75 GHz
GPH/38756/JD01/044	Spurious Emissions 75 GHz to 100 GHz
GPH/38756/JD01/009	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/010	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/011	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/012	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/013	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/014	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/015	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/016	Spurious Emissions 9.21 GHz to 9.31 GHz
GPH/38756/JD01/017	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/018	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/019	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/020	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/021	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/022	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/023	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/024	Spurious Emissions 9.51 GHz to 9.61 GHz
GPH/38756/JD01/025	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/026	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/027	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/028	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/029	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/030	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/031	Spurious Emissions 8.91 GHz to 9.21 GHz
GPH/38756/JD01/032	Spurious Emissions 8.91 GHz to 9.21 GHz

RADIO FREQUENCY INVESTIGATION LTD.**Microwave Type Approval Department****Test Of: Raytheon Marine Pathfinder R75RC**
To: FCC Part 80 and FCC Part 2**TEST REPORT****S.No. RFI/MICB2/RP38756JD01****Page 37 of 37****Issue Date: 25 May 1999**

Graph Reference Number	Title Conducted Spurious Emissions
GPH/38756/JD01/033	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/034	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/035	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/036	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/037	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/038	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/039	Spurious Emissions 9.61 GHz to 9.91 GHz
GPH/38756/JD01/040	Spurious Emissions 9.61 GHz to 9.91 GHz
Graph Reference Number	Title Measured Pulse
GPH/38756/JD01/001A	60ns Pulse Width
GPH/38756/JD01/002A	90ns Pulse Width
GPH/38756/JD01/003A	150ns Pulse Width
GPH/38756/JD01/004A	250ns Pulse Width
GPH/38756/JD01/005A	350ns Pulse Width
GPH/38756/JD01/006A	450ns Pulse Width
GPH/38756/JD01/007A	600ns Pulse Width
GPH/38756/JD01/008A	1000ns Pulse Width
Graph Reference Number	Title Occupied Bandwidth
GPH/38756/JD01/052	60ns Pulse Width
GPH/38756/JD01/051	90ns Pulse Width
GPH/38756/JD01/050	150ns Pulse Width
GPH/38756/JD01/049	250ns Pulse Width
GPH/38756/JD01/048	350ns Pulse Width
GPH/38756/JD01/047	450ns Pulse Width
GPH/38756/JD01/046	600ns Pulse Width
GPH/38756/JD01/045	1000ns Pulse Width

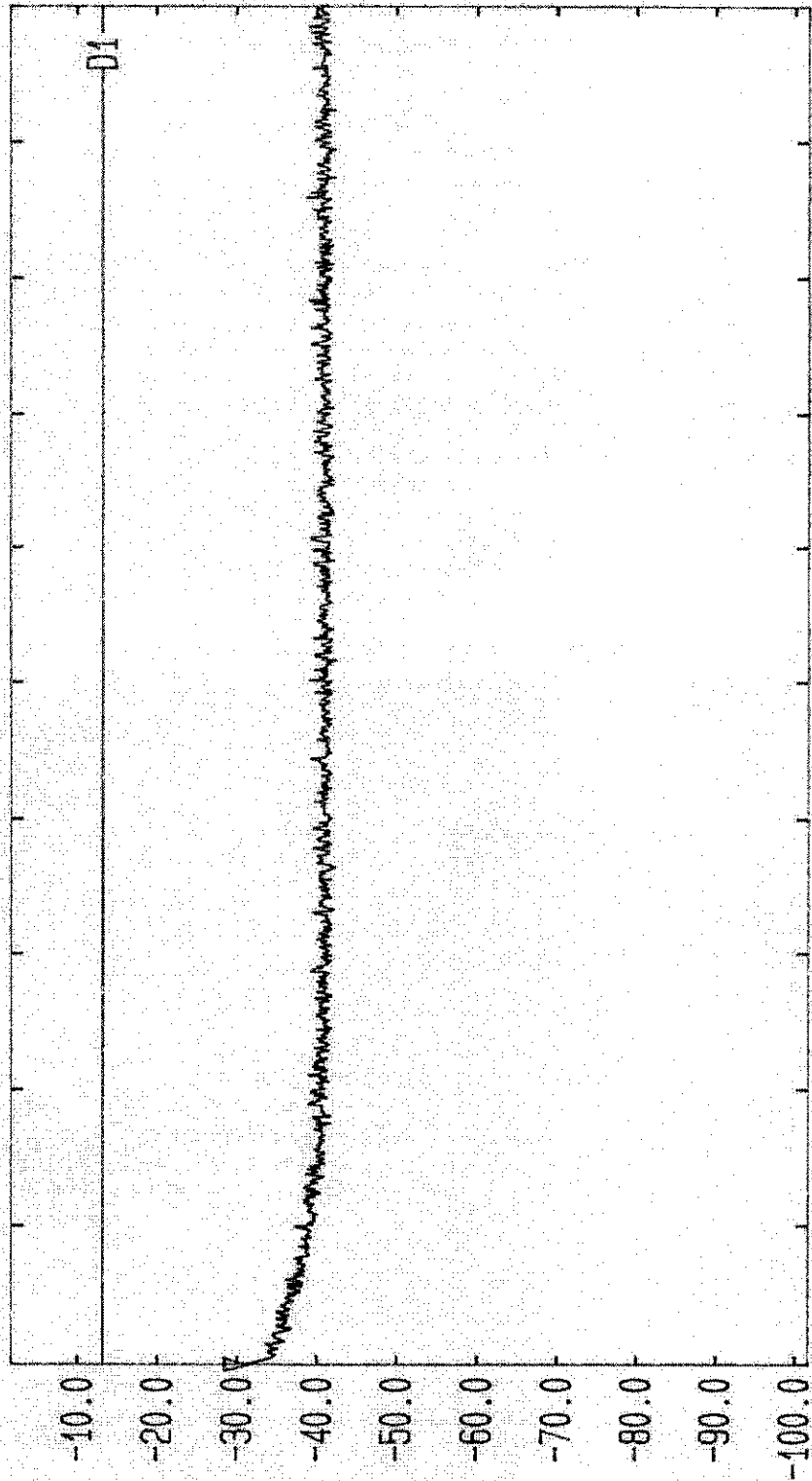
These pages are not included in the total number of pages for this report.

LVLOFF '87 Time 06:28:07 Res.Bw 196.4 Hz [3dB] Vid.Bw 300 Hz
 Date 18.Jan. '87 Marker -44.38 dBm CF.Stp 14.100 kHz RF.Att 10 dB
 Ref.Lvl -1.70 dBm 150.0 kHz Unit [dBm]



Start 9 kHz Span 141 kHz Center 79.5 kHz Sweep 11.0 s Stop 150 kHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/001

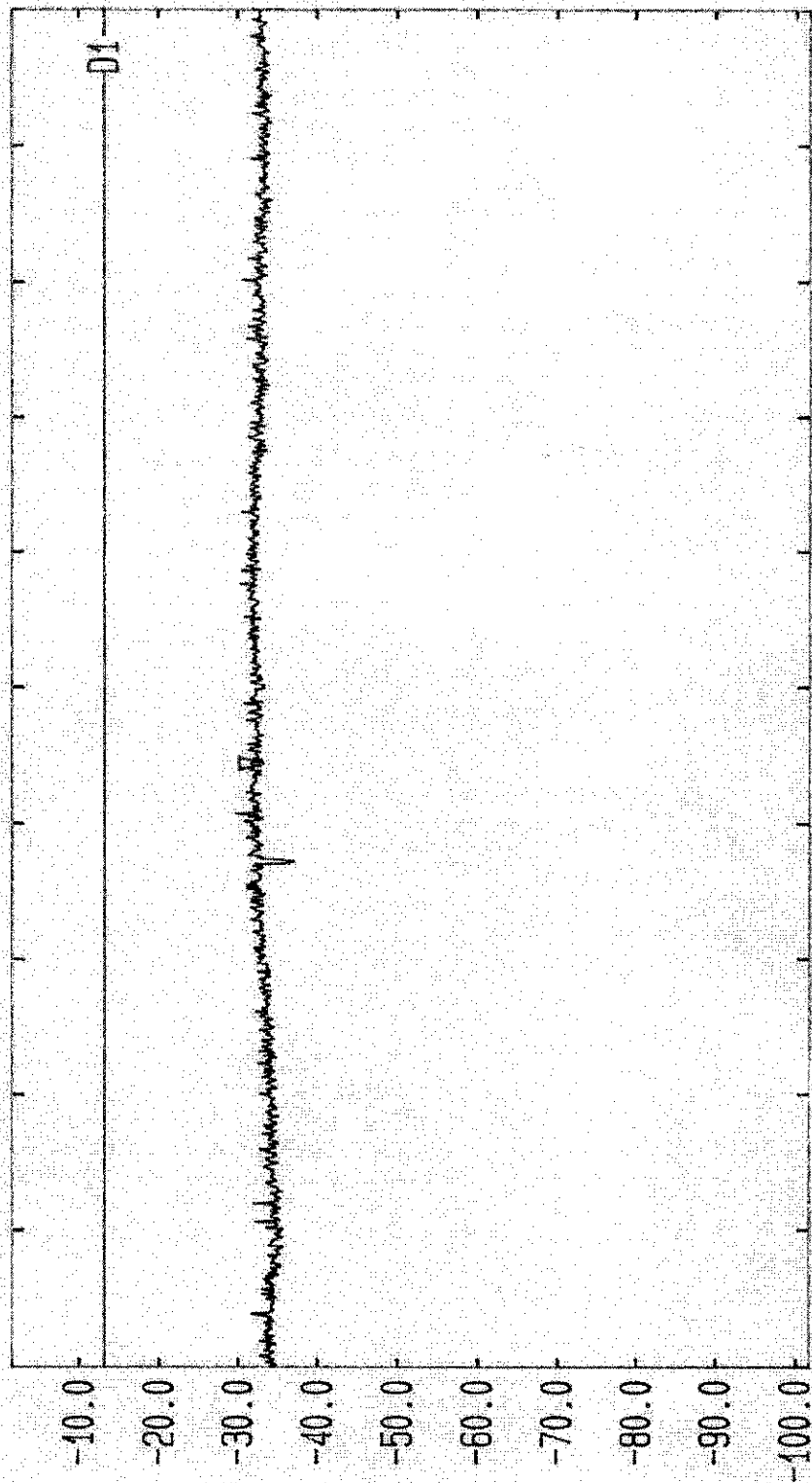
LVLOFF
 Date 18 Jan. '87 Time 06:30:48
 Ref.Lvl Marker -31.23 dBm
 -1.70 dBm
 Res.Bw 8.9 kHz [3dB] Vid.Bw 10 kHz
 CF.Stp 2.985 MHz RF.Att 10 dB
 Unit [dBm]



Start 0.15 MHz Span 29.85 MHz Center 15.07 MHz Sweep 1.12 s Stop 30 MHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/002

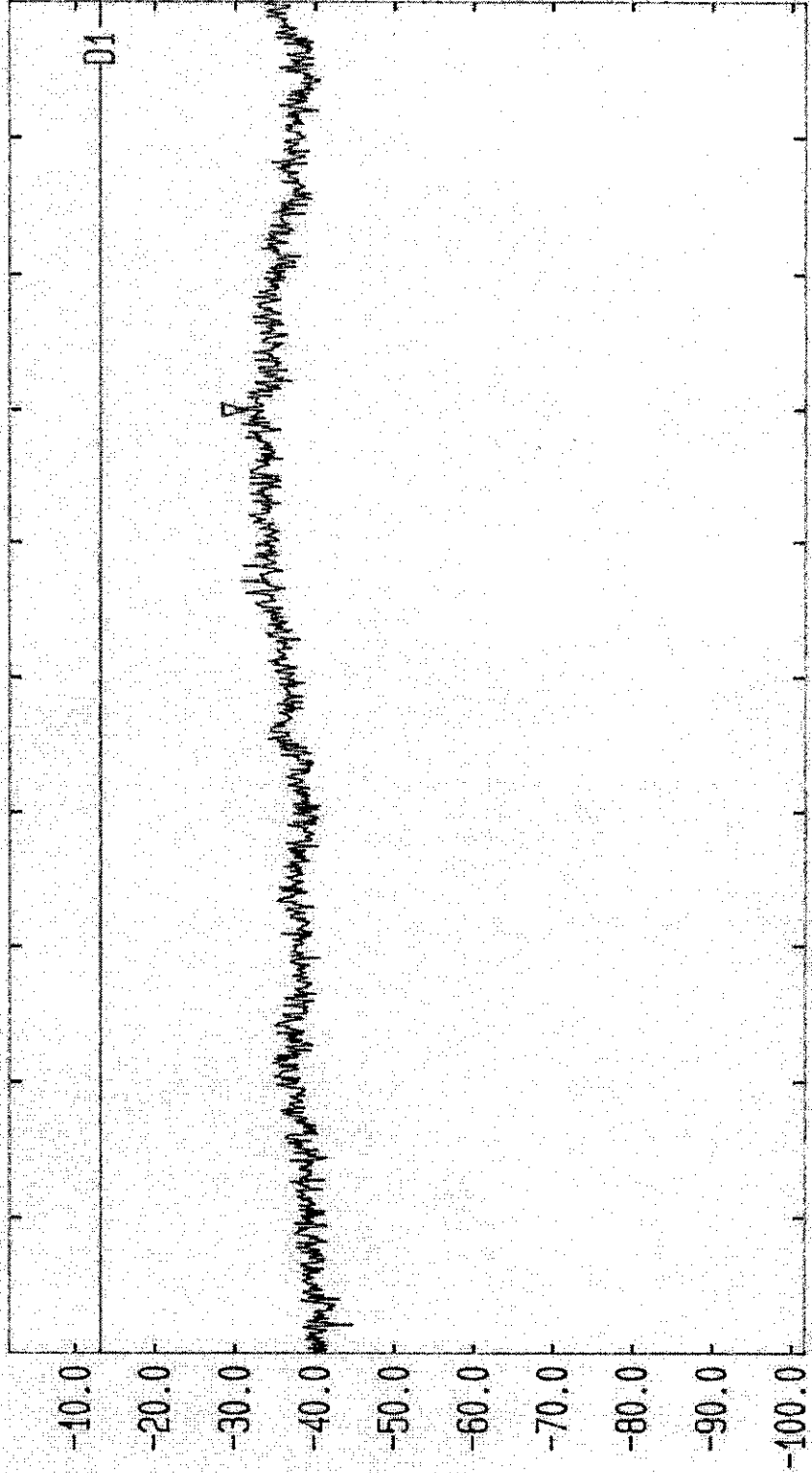
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Ref.Lvl -1.70 dBm
Marker -32.95 dBm
Res.Bw 100.0 kHz [3dB] Vid.Bw 100 kHz
CF.Stp 97.000 MHz RF.Att 5 dB
Unit [dBm]



Start 30 MHz Span 970 MHz Center 515 MHz Sweep 300 ms Stop 1 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/003

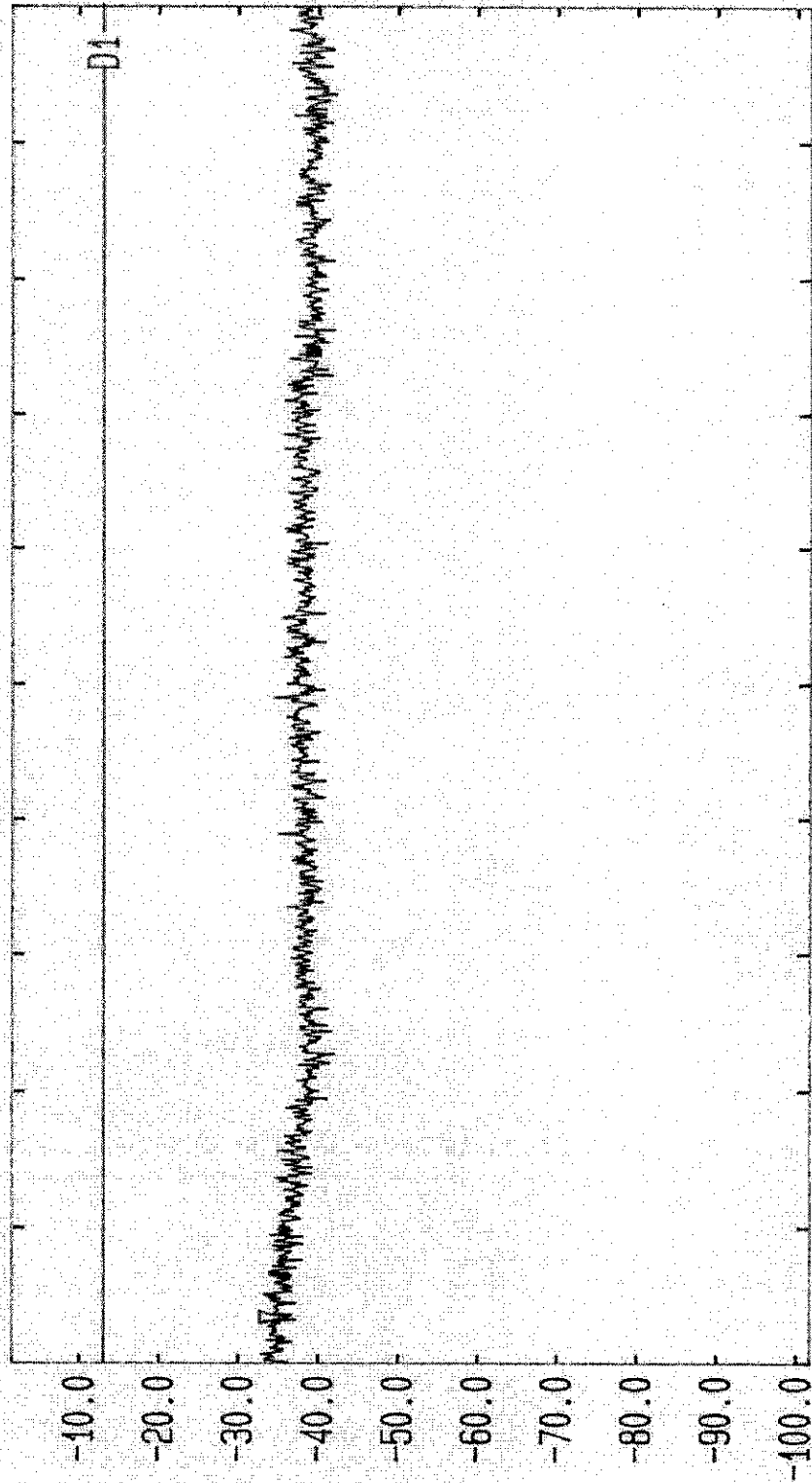
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 Ref.Lvl -1.70 dBm
 Marker -31.41 dBm
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 700.000 MHz RF.Att 0 dB
 Unit [dBm]



Start 1 GHz
 Span 7 GHz
 Center 4.5 GHz
 Sweep 40 ms
 Stop 8 GHz

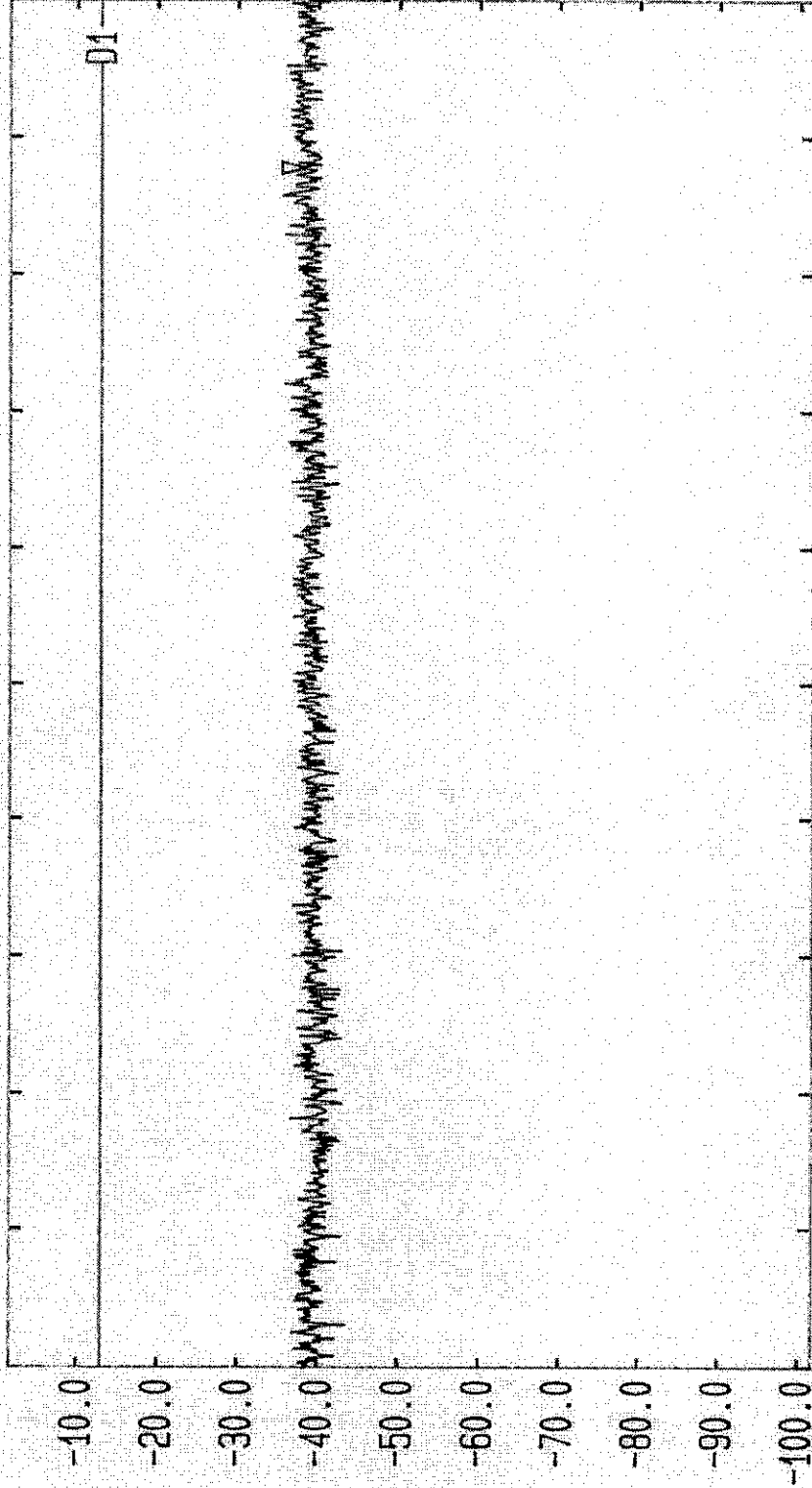
Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/004

LVL OFF
 Date 18 Jan. '87 Time 06:40:48
 Ref. Lvl Marker -35.62 dBm
 -1.70 dBm
 Res. Bw 1.0 MHz [3dB]
 CF. Stp 100.000 MHz
 Vid. Bw 1 MHz
 RF. Att 0 dB
 Unit [dBm]



Start 8 GHz
 Span 1 GHz
 Center 8.5 GHz
 Sweep 20 ms
 Stop 9 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: A75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/005

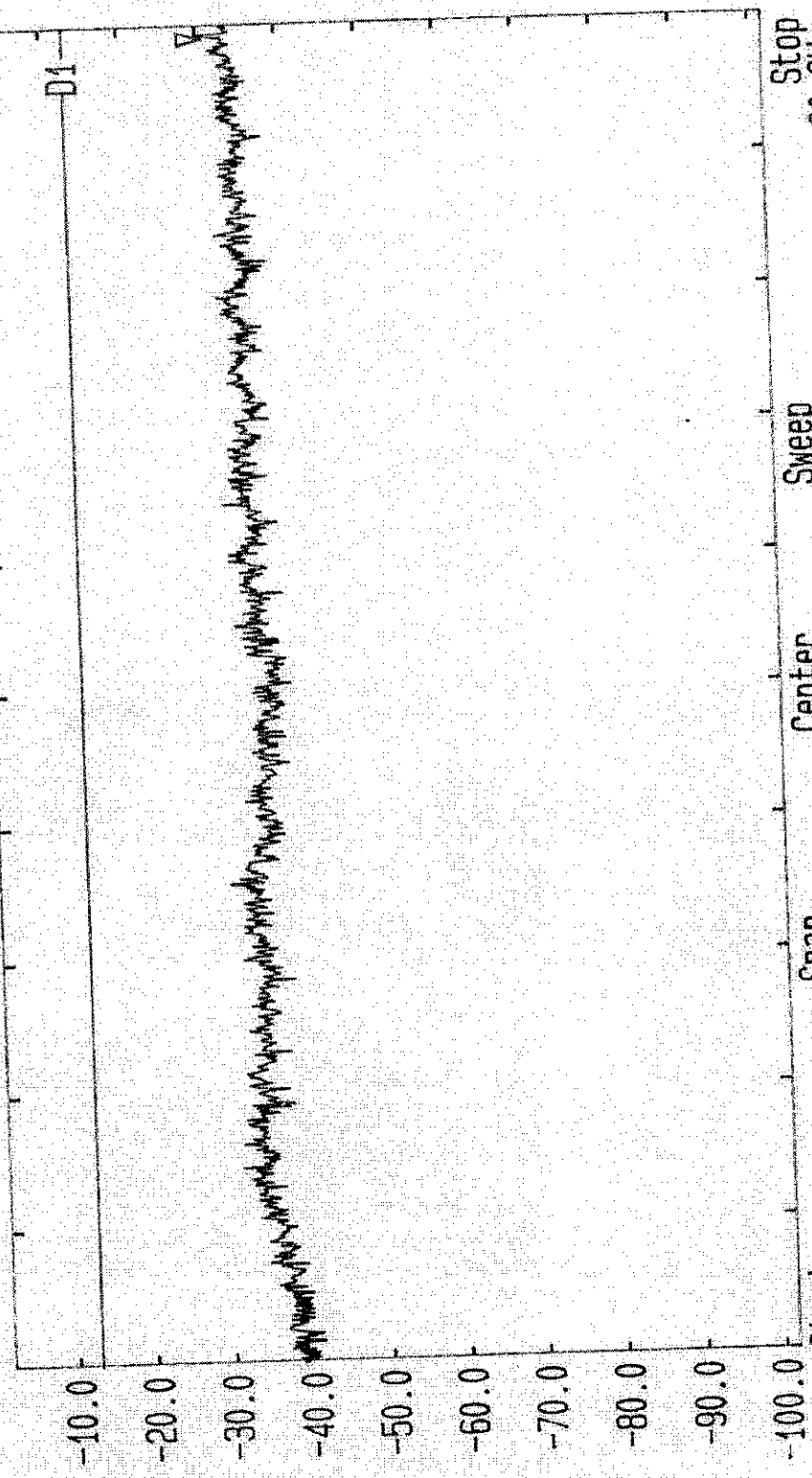
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 Date 18.Jan. '87
 Ref.Lvl -1.70 dBm
 Marker -38.52 dBm
 CF.Stp 11.6972 GHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 0 dB
 Unit [dBm]



Start 9.5 GHz
 Span 2.5 GHz
 Center 10.75 GHz
 Sweep 20 ms
 Stop 12 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/006

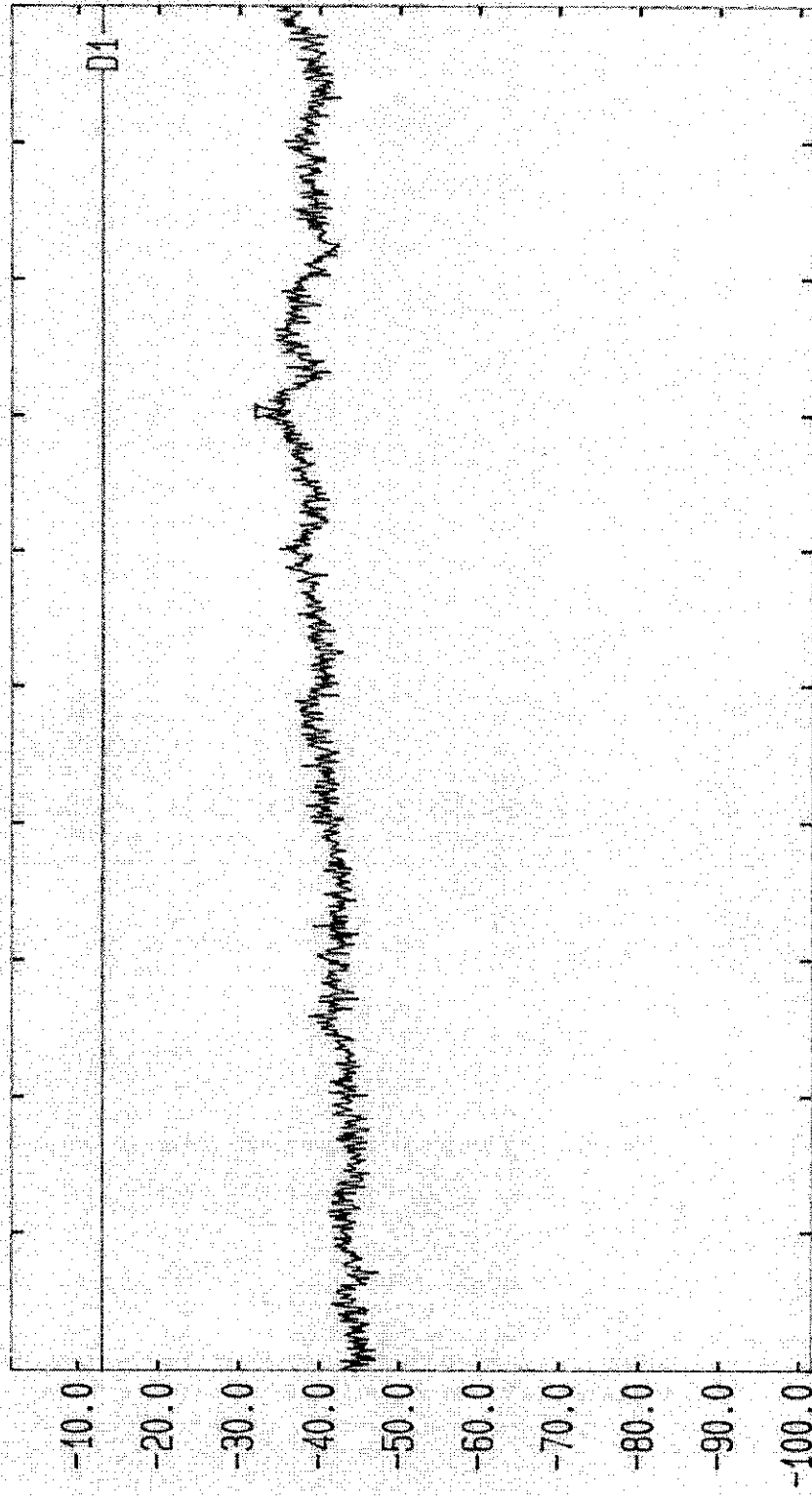
LVLOFF
 Date 18. Jan. '87 Time 06:46:07
 Ref. Lvl -1.70 dBm
 Marker -30.59 dBm
 19.9377 GHz

Res. Bw 1.0 MHz [3dB]
 CF. Stp 800.000 MHz
 Unit
 Vid. Bw 1 MHz
 RF Att 0 dB
 [dBm]



Start 12 GHz
 Span 8 GHz
 Center 16 GHz
 Sweep 40 ms
 Stop 20 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/007

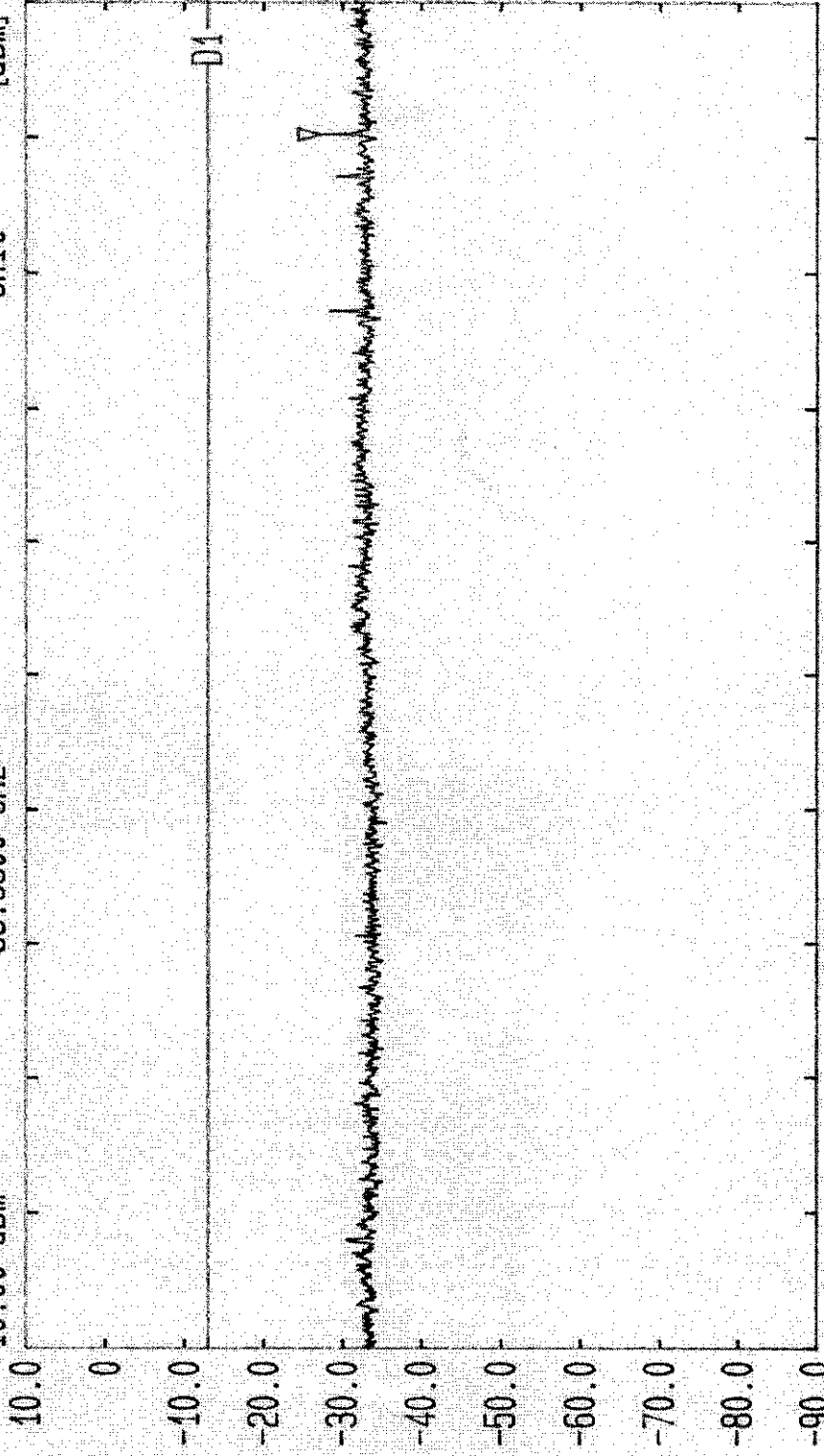
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 Date 06.Apr.'99 Time 11:02:15
 Ref.Lvl -1.70 dBm
 Marker -34.99 dBm
 24.5861 GHz
 Res.Bw 100.0 kHz [3dB] Vid.Bw 100 kHz
 CF.Stp 650.000 MHz RF.Att 0 dB
 Unit [dBm]



Start 20 GHz Span 6.5 GHz Center 23.25 GHz Sweep 1.96 s Stop 26.5 GHz

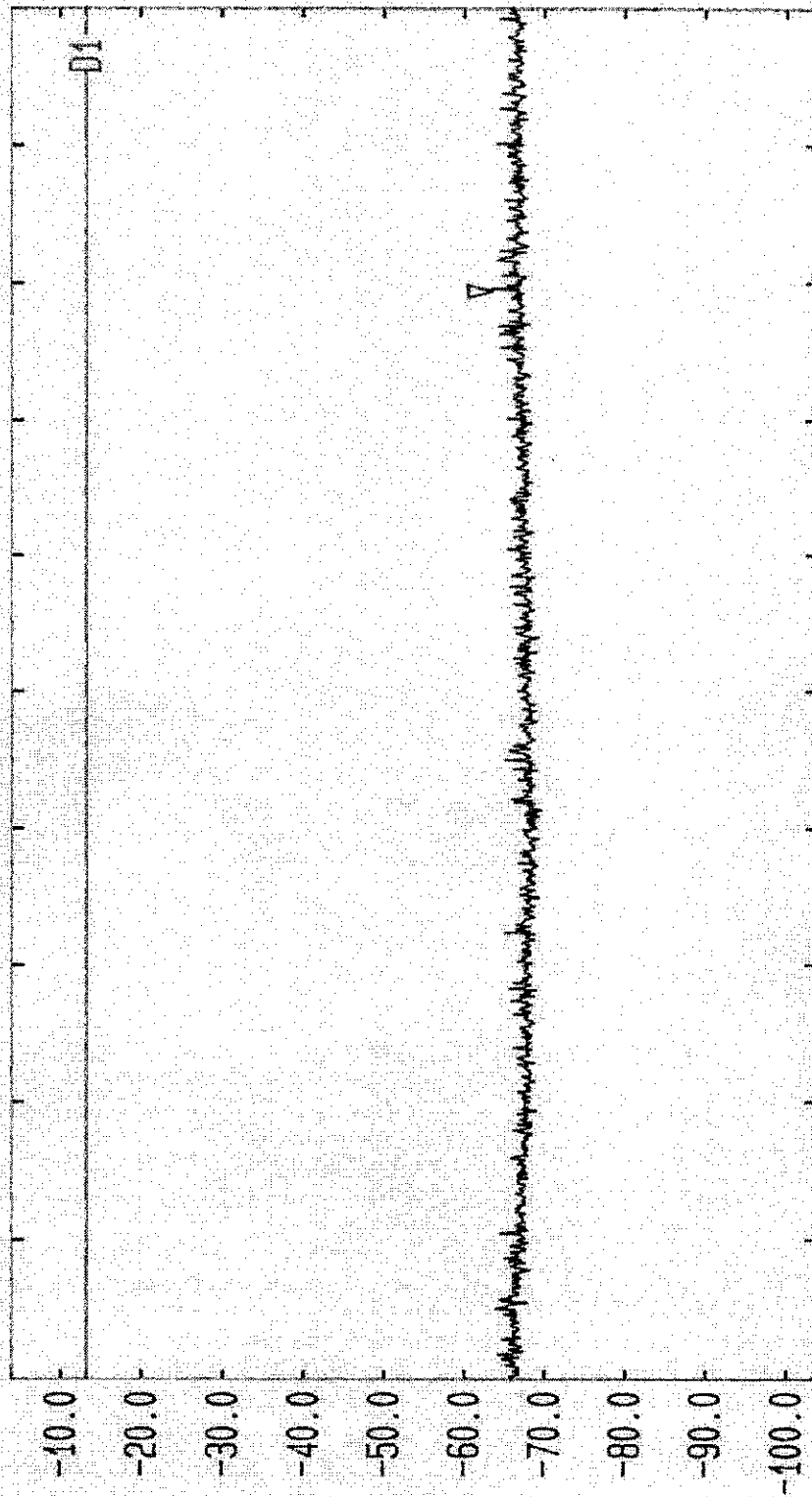
Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/008

LVLOFF '99 Time 15:44:17
 Date 06.Apr. Marker -27.37 dBm
 Ref.Lvl 10.00 dBm
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 1.350 GHz RF.Att 0 dB
 Unit [dBm]



Start 26.5 GHz Span 13.5 GHz Center 33.25 GHz Sweep 60 ms Stop 40 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75ARC Supply 13.8Vdc Temp: 19.6°C RFI: 56% Pulse Width: 450ns GPH/38756/JD01/041

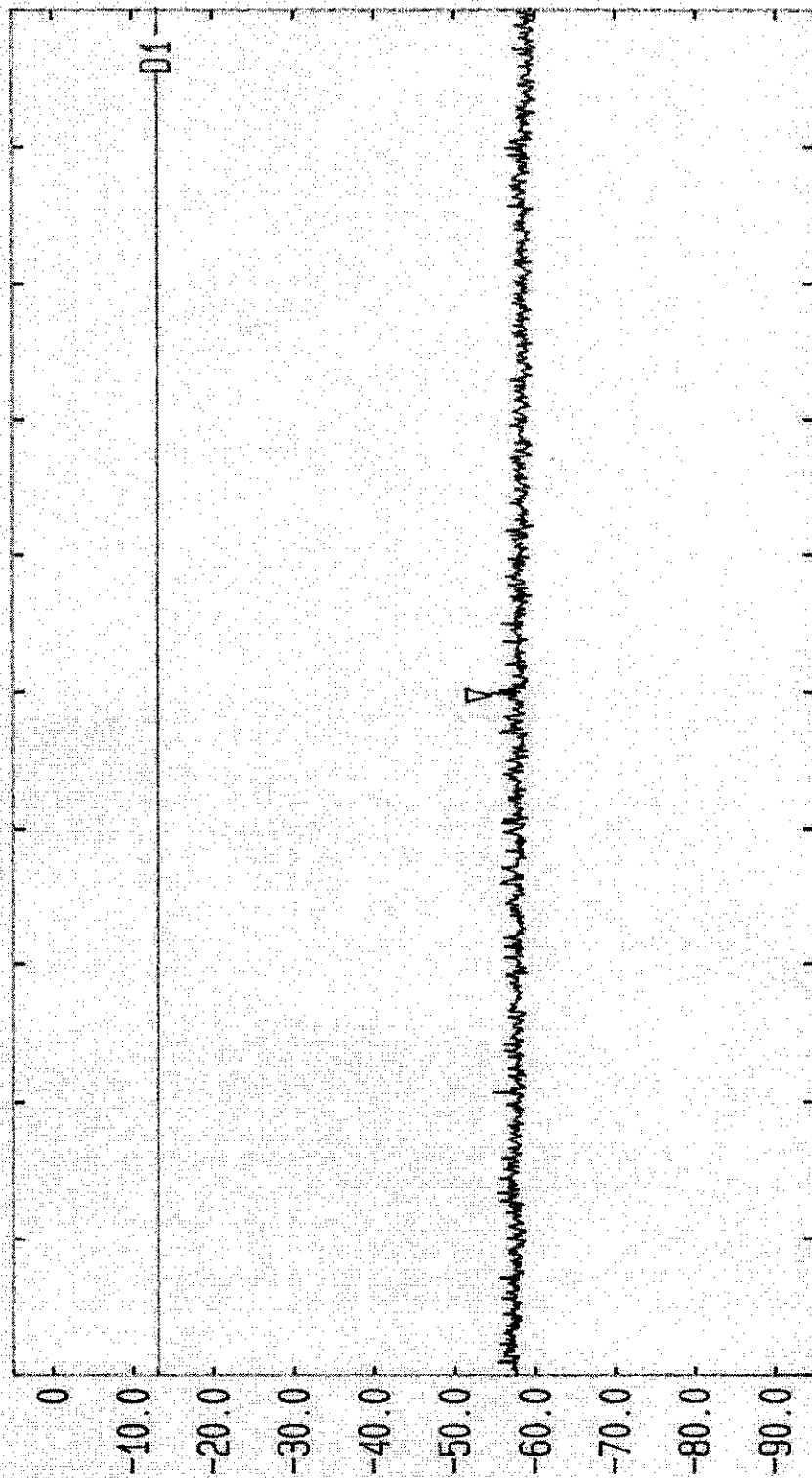
LVLOFF
 Date 06.Apr.'99 Time 15:12:40
 Ref.Lvl -4.00 dBm
 Marker -63.24 dBm
 55.9111 GHz
 Res.Bw 1.0 MHz [3dB]
 CF.Stp 2.000 GHz
 Vid.Bw 1 MHz
 RF.Att 0 dB
 Unit [dBm]



Start 40 GHz
 Span 20 GHz
 Center 50 GHz
 Sweep 60 ms
 Stop 60 GHz

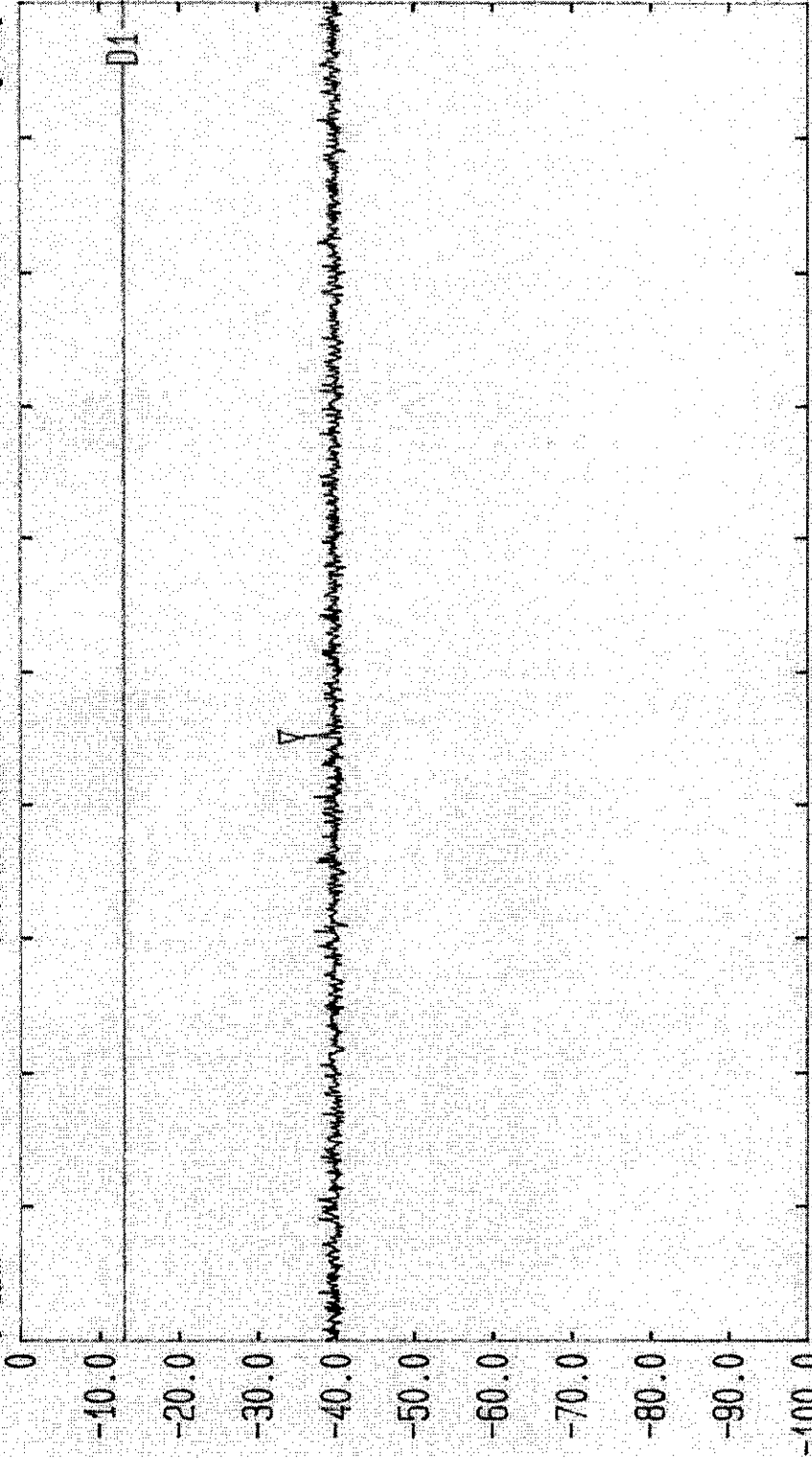
Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 19.6°C RH: 56% Pulse Width: 450ns GPH/38756/JD01/042

LVLOFF
 Date 06 Apr '99 Time 15:22:20
 Ref.Lvl Marker -54.29 dBm
 5.00 dBm 67.4833 GHz
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 1.499 GHz RF.Att 0 dB
 Unit [dBm]



Start 59.999 GHz Span 15.00 GHz Center 67.499 GHz Sweep 60 ms Stop 74.999 GHz
 Spurious emissions measured for Raytheon Marine by RFI, FCC CFR47 2.1051 80.211 (f)
 EUT: A75RC Supply 13.8Vdc Temp: 19.6°C RH: 56% Pulse Width: 450ns GPH/38756/JD01/043

LVLOFF
 Date 06 Apr '99 Time 15:35:23
 Ref.Lvl 0 dBm
 Marker -35.65 dBm
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 2.499 GHz RF.Att 0 dB
 Unit [dBm]

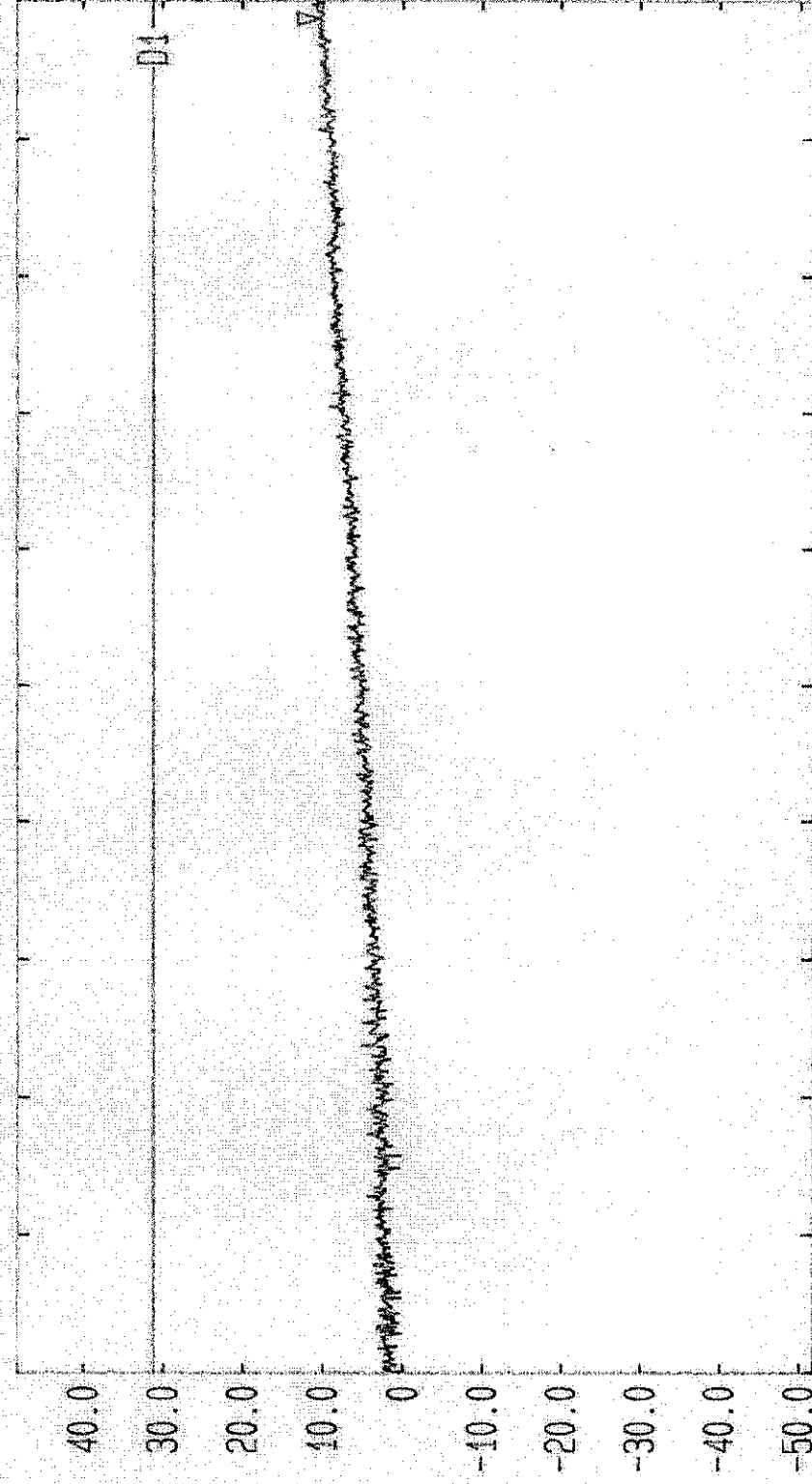


Start 74.999 GHz Stop 99.999 GHz
 Span 25.00 GHz Sweep 80 ms
 Center 87.499 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 19.6°C RH: 56% Pulse Width: 450ns GPH/38756/JD01/044

LVLOFF
 Date 06.Apr.'99 Time 11:36:00
 Ref.Lvl 48.30 dBm
 Marker 10.42 dBm
 9.3087 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Unit

Vid.Bw 1 MHz
 RF.Att 20 dB

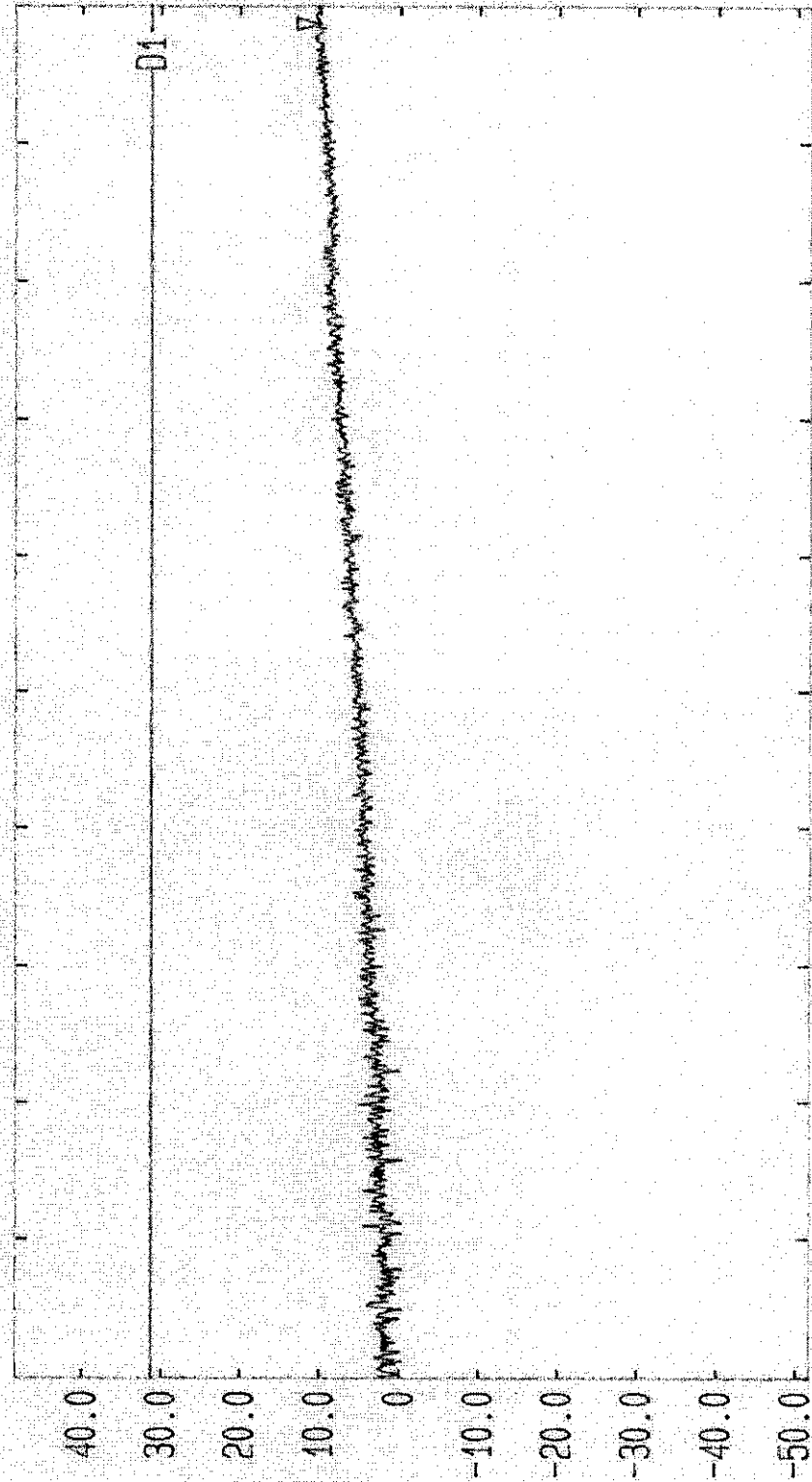


Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz

Spurious emissions measured for Raytheon Marine by AFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 65% Pulse Width: 450ns. GPH/38756/JD01/009

LVLOFF
 Date 06 Apr '99 Time 11:38:14
 Ref.Lvl 48.30 dBm
 Marker 10.11 dBm
 9.3087 GHz

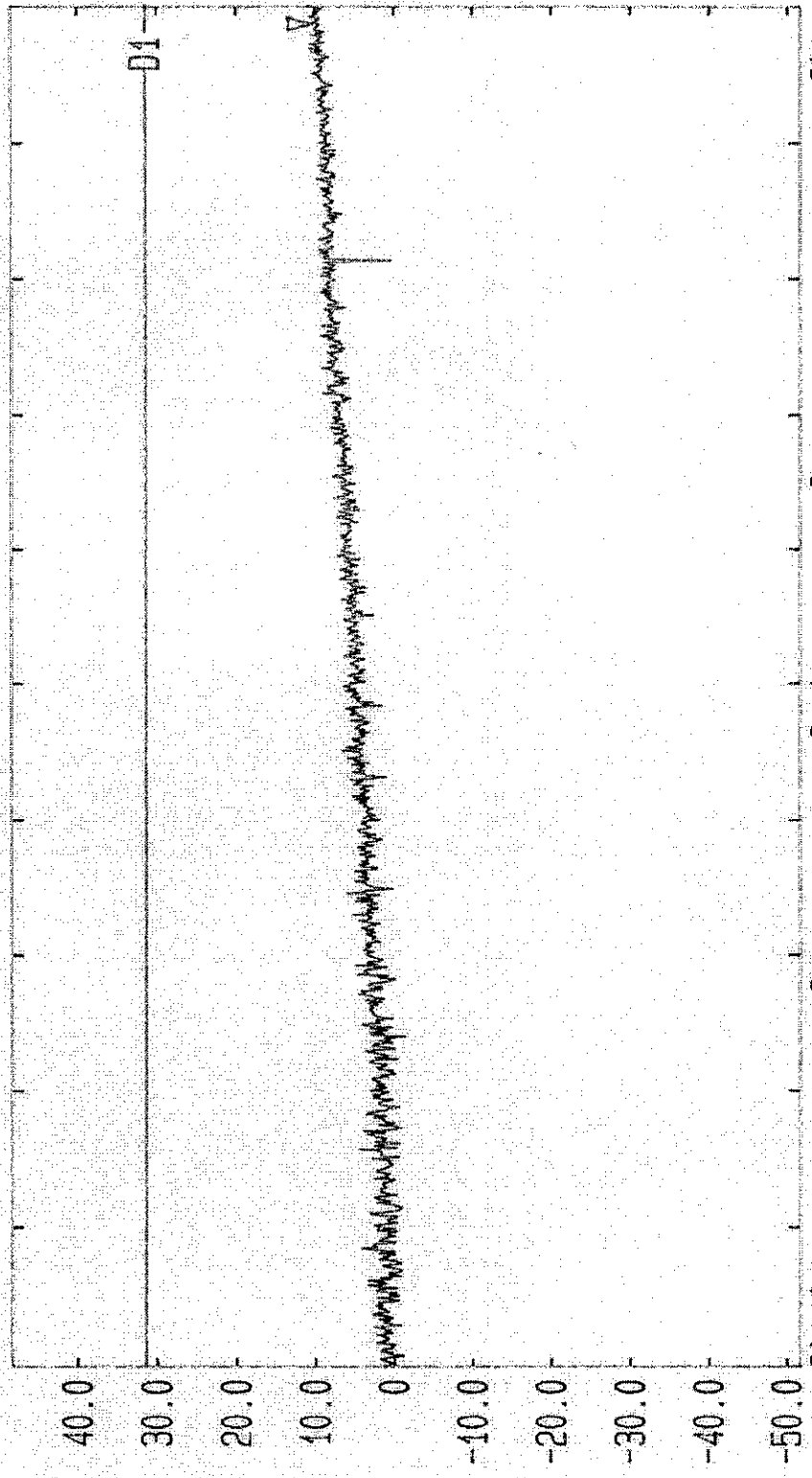
Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz

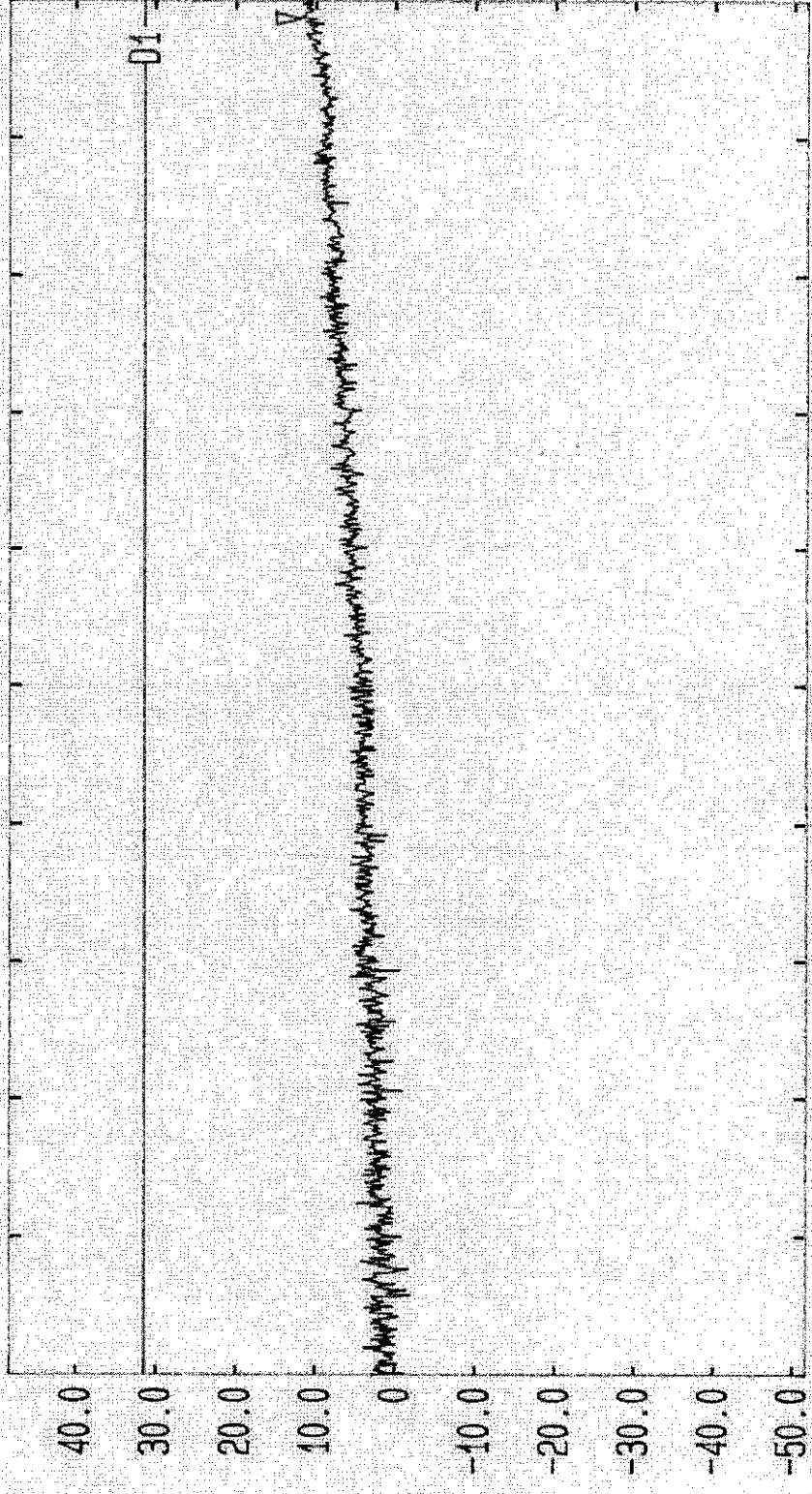
Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 600ns. GPH/38756/JD01/010

LVLOFF '99 Time 11:40:30
 Date 06.Apr.'99 Time 11:40:30
 Ref.Lvl 48.30 dBm
 Marker 10.39 dBm
 CF.Stp 9.3087 GHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 1us. GPH/38756/JD01/011

LVLOFF
 Date 06 Apr '99 Time 11:23:59
 Ref.Lvl 48.30 dBm
 Marker 12.12 dBm
 9.3087 GHz
 Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]

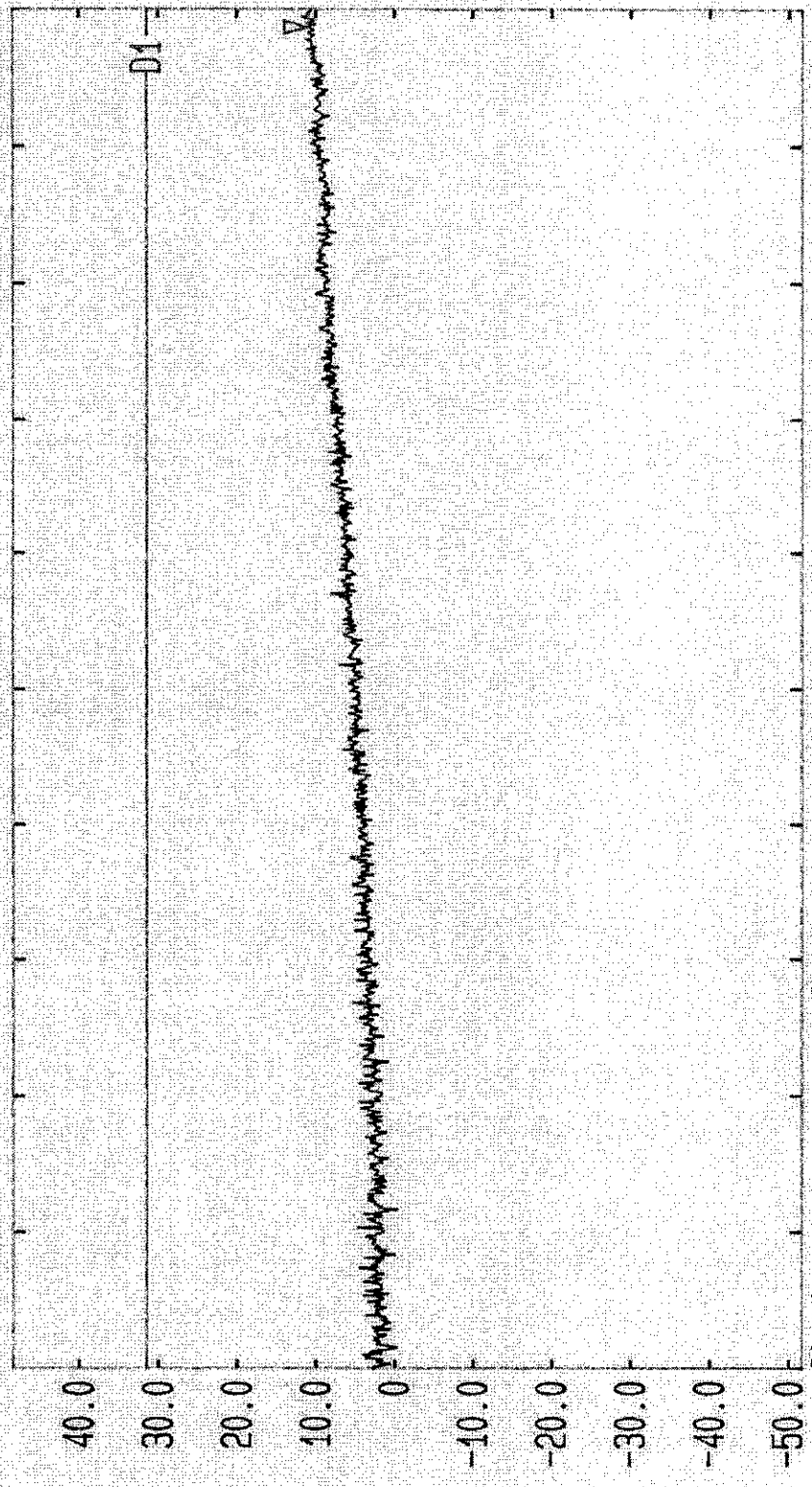


Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 60ns. GPH/38756/JD01/012

LVLOFF
 Date 06 Apr '99 Time 11:26:22
 Ref.Lvl 48.30 dBm
 Marker 10.93 dBm
 9.3087 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Unit

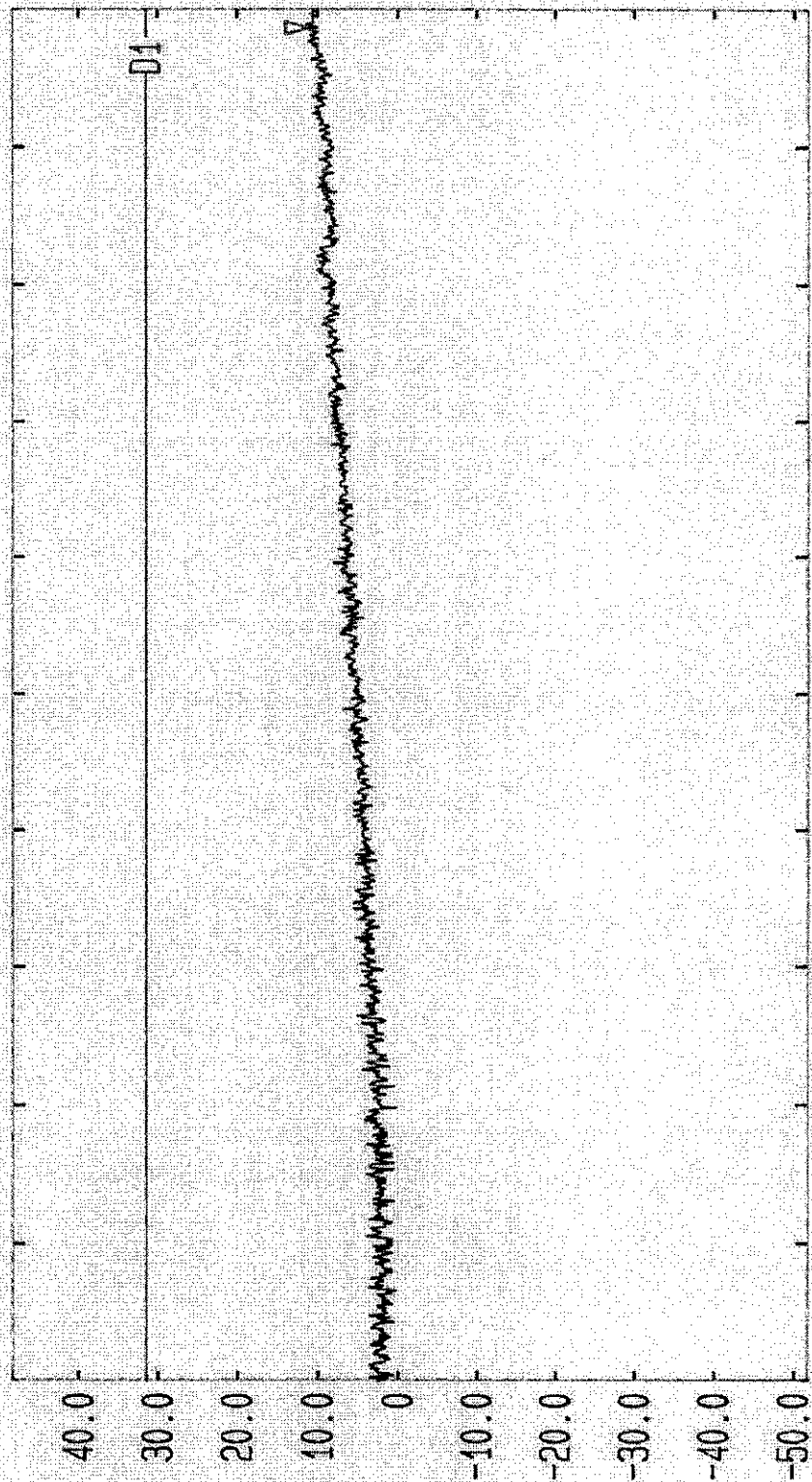
Vid.Bw 1 MHz
 RF.Att 20 dB
 [dBm]



Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz

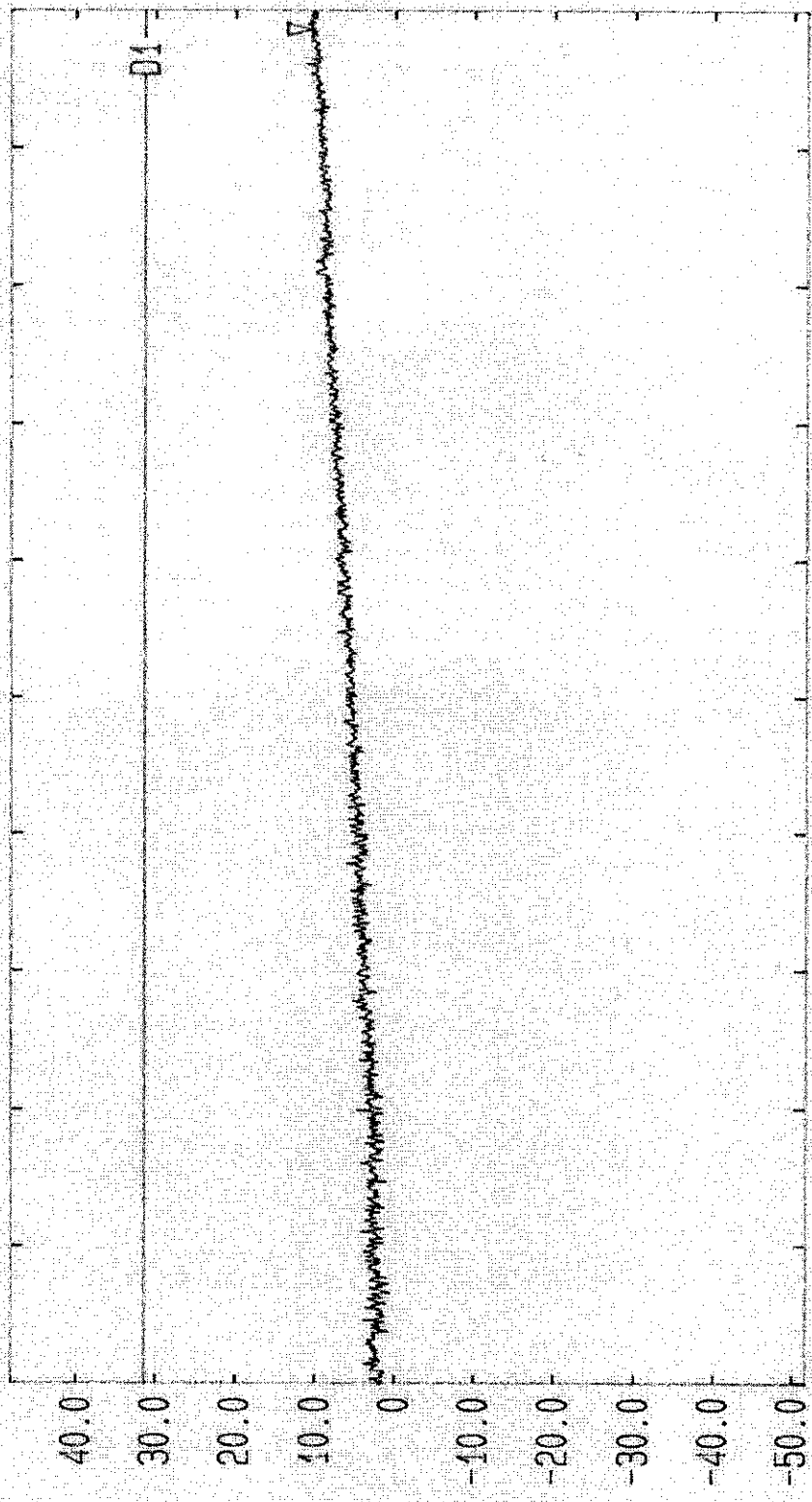
Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 90ns. GPH/38756/JD01/013

LVLOFF
 Date 06 Apr '99 Time 11:29:12
 Ref.Lvl 48.30 dBm
 Marker 11.03 dBm
 9.3087 GHz
 Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 150ns. GPH/38756/JD01/014

LVLOFF
 Date 06.Apr.'99 Time 11:31:26
 Ref.Lvl 48.30 dBm
 Marker 10.62 dBm
 Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 RF.Att 20 dB
 Unit [dBm]
 Vid.Bw 1 MHz

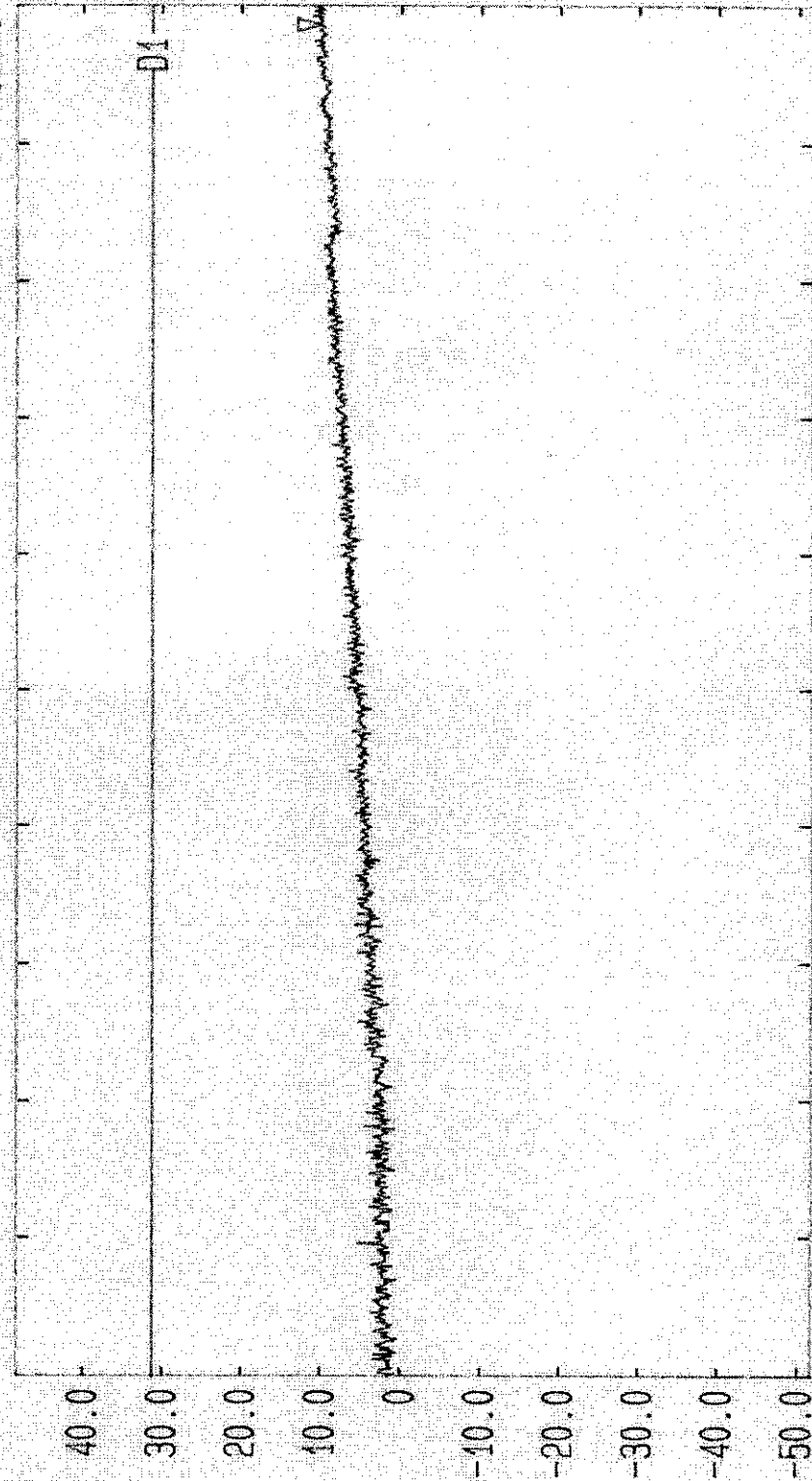


Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: A75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 250ns. GPH/38756/JD01/015

LVLOFF
 Date 06.Apr.'99 Time 11:33:46
 Ref.Lvl 48.30 dBm
 Marker 10.16 dBm
 9.3087 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 RF.Att 20 dB
 Unit [dBm]

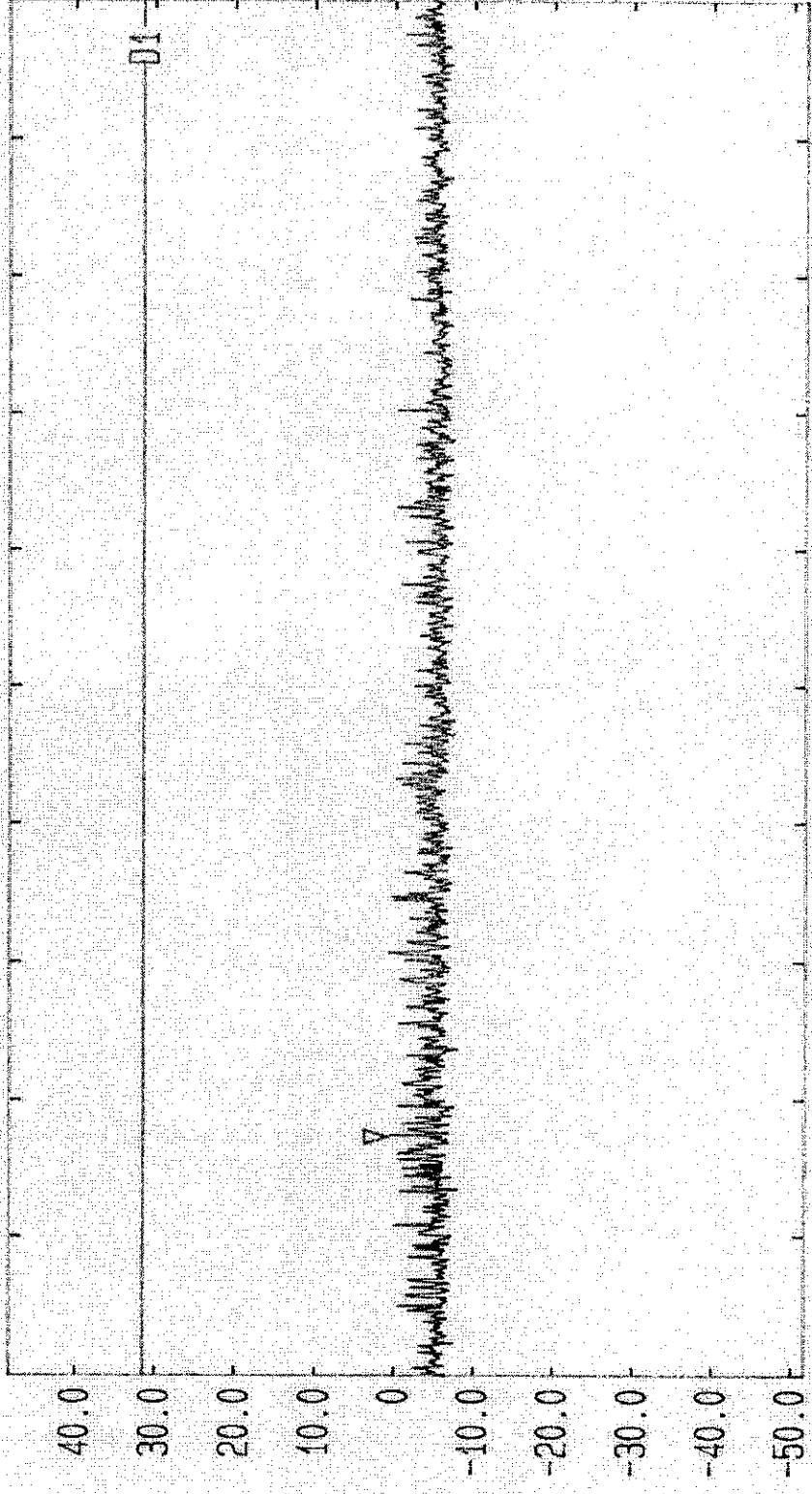


Start 9.21 GHz
 Span 100 MHz
 Center 9.26 GHz
 Sweep 20 ms
 Stop 9.31 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 350ns. GPH/38756/JD01/016

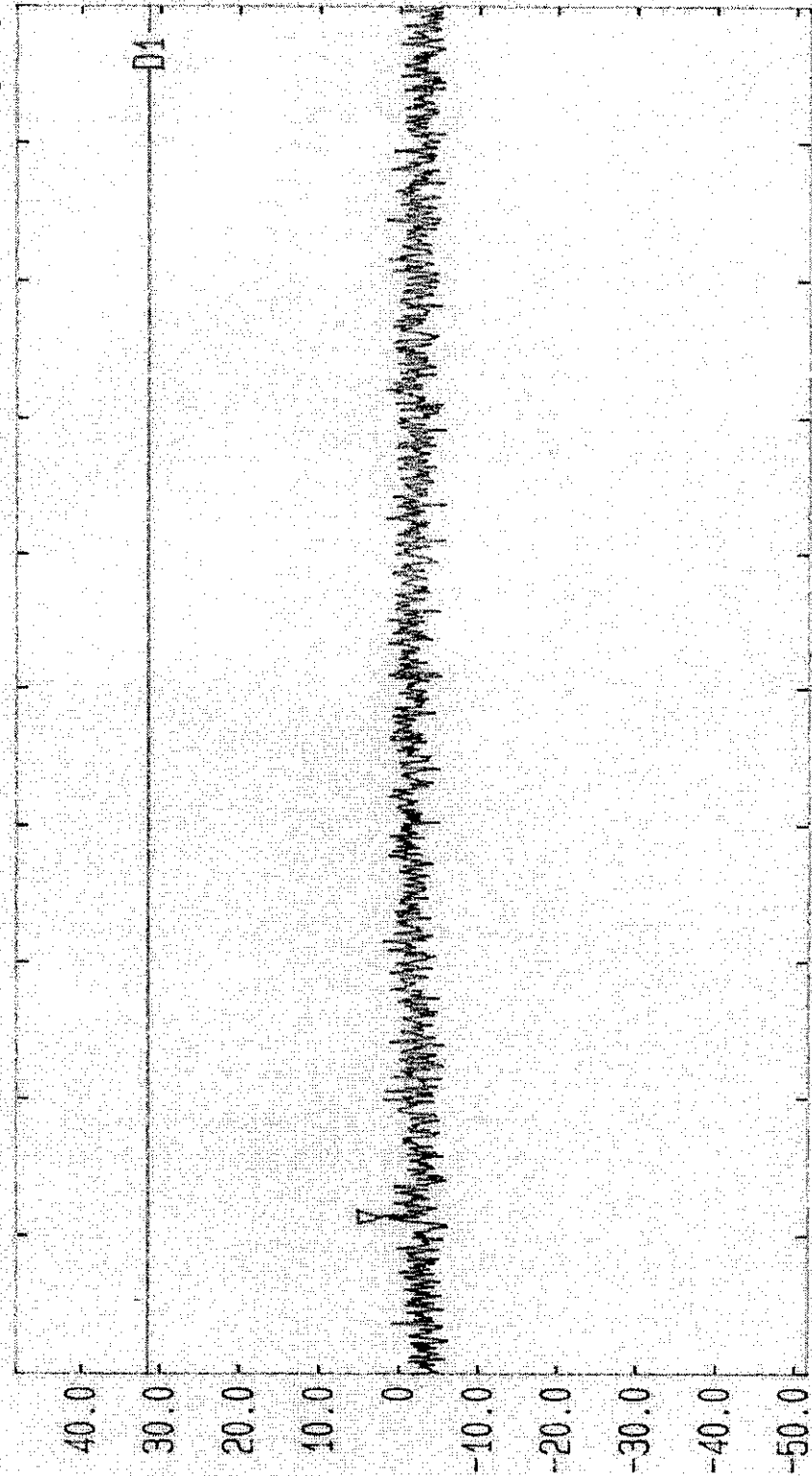
LVLOFF
 Date 06 Apr '99 Time 11:46:30
 Ref.Lvl 48.30 dBm
 Marker 0.59 dBm
 9.5273 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Unit 20 dB [dBm]



Start 9.51 GHz
 Span 100 MHz
 Center 9.56 GHz
 Sweep 20 ms
 Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75HC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 60ns. GPH/38756/JD01/017

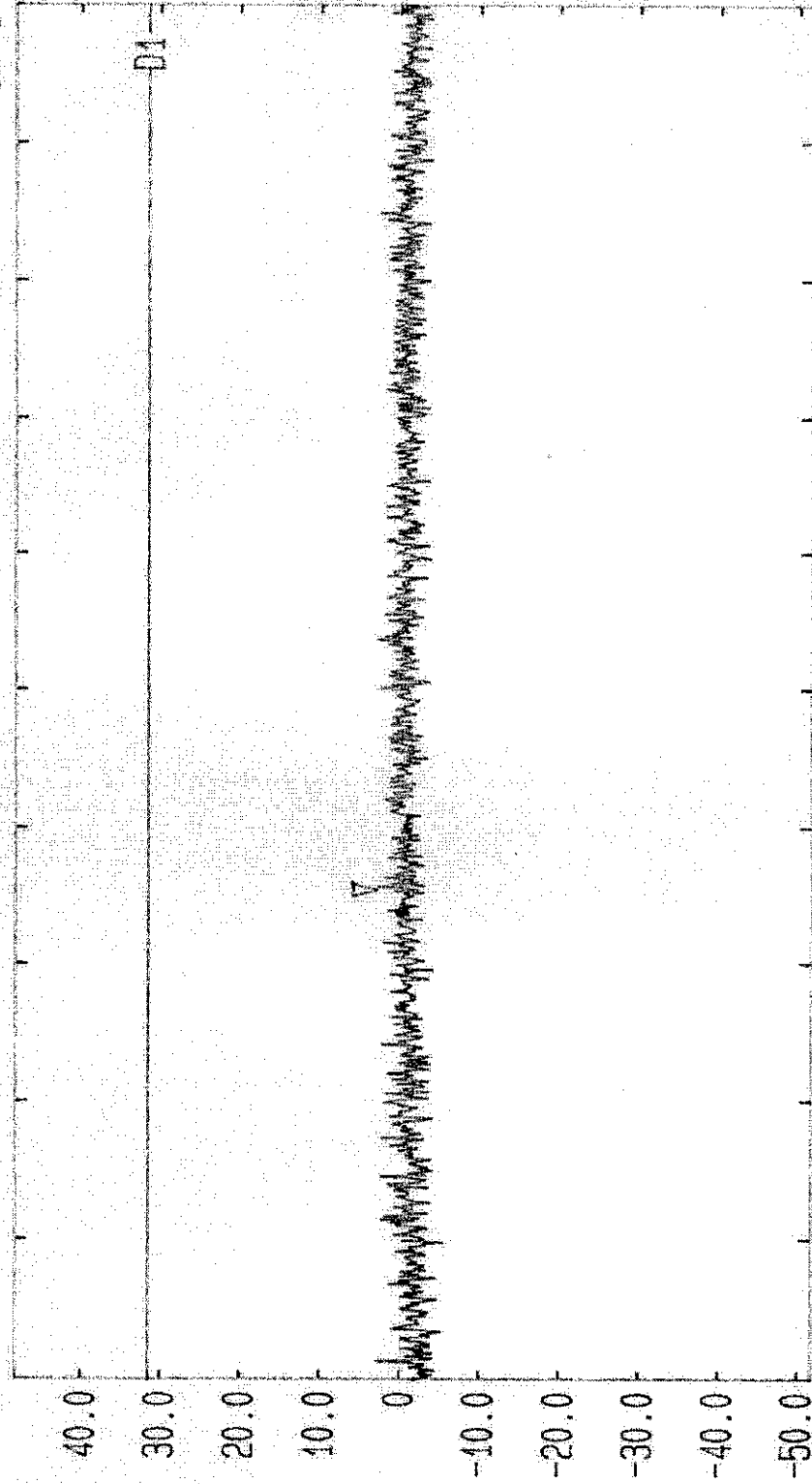
LVLOFF '99 Time 11:48:41
 Date 06.Apr. Marker 2.19 dBm
 Ref.Lvl 48.30 dBm
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 10.000 MHz RF.Att 20 dB
 Unit [dBm]



Start 9.51 GHz Span 100 MHz Center 9.56 GHz Sweep 20 ms Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 90ns. GPH/38756/JD01/018

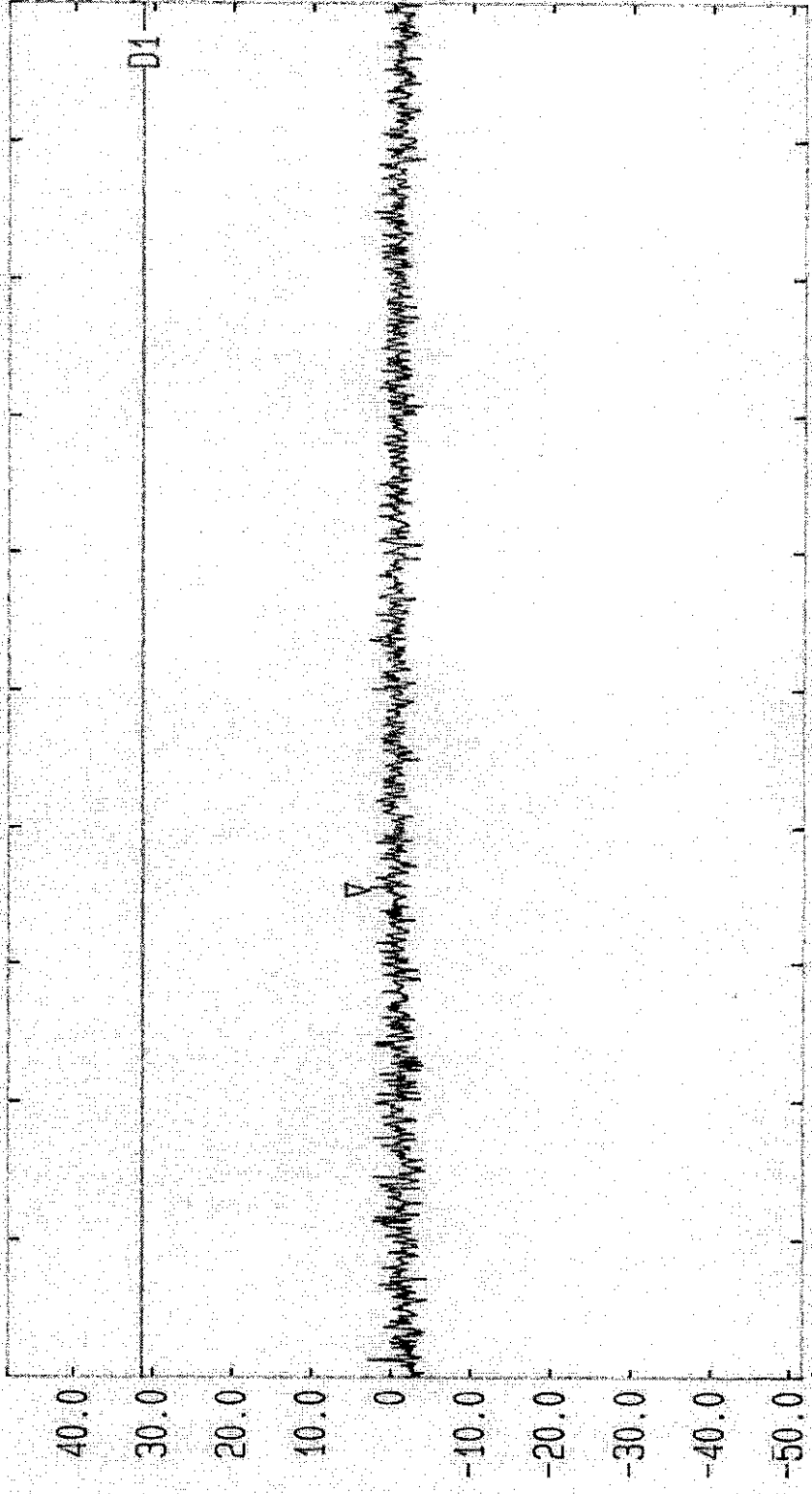
LVLOFF
 Date 06 Apr '99 Time 11:51:16
 Ref.Lvl 48.30 dBm
 Marker 2.98 dBm
 9.5456 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



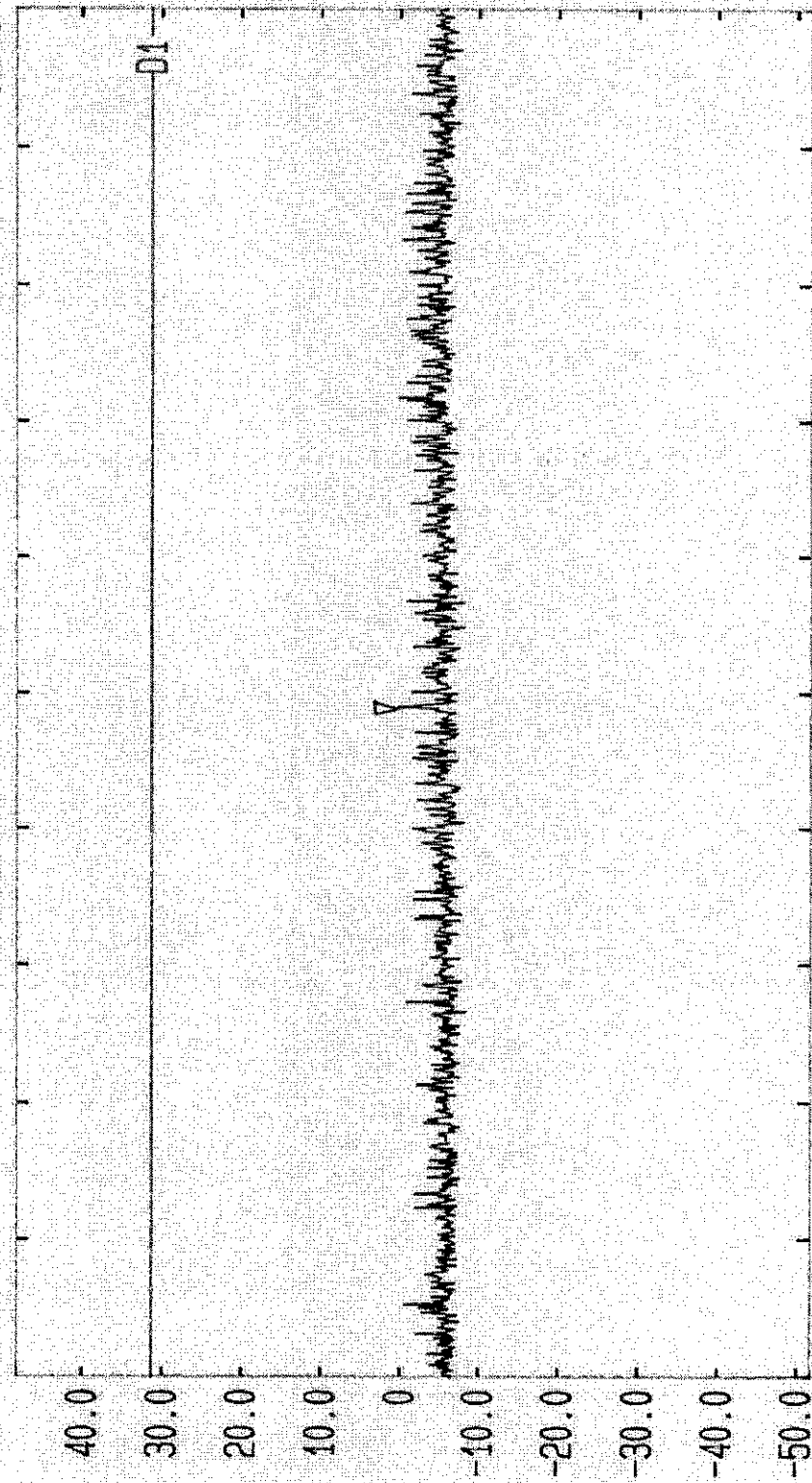
Start 9.51 GHz
 Span 100 MHz
 Center 9.56 GHz
 Sweep 20 ms
 Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 150ns. GPH/38756/JD01/019

LVLOFF '99 Time 11:53:48
 Date 06 Apr. Marker 2.98 dBm
 Ref. Lvl 48.30 dBm
 Res. Bw 1.0 MHz [3dB] Vid. Bw 1 MHz
 CF. Stp 10.000 MHz RF Att 20 dB
 Unit [dBm]



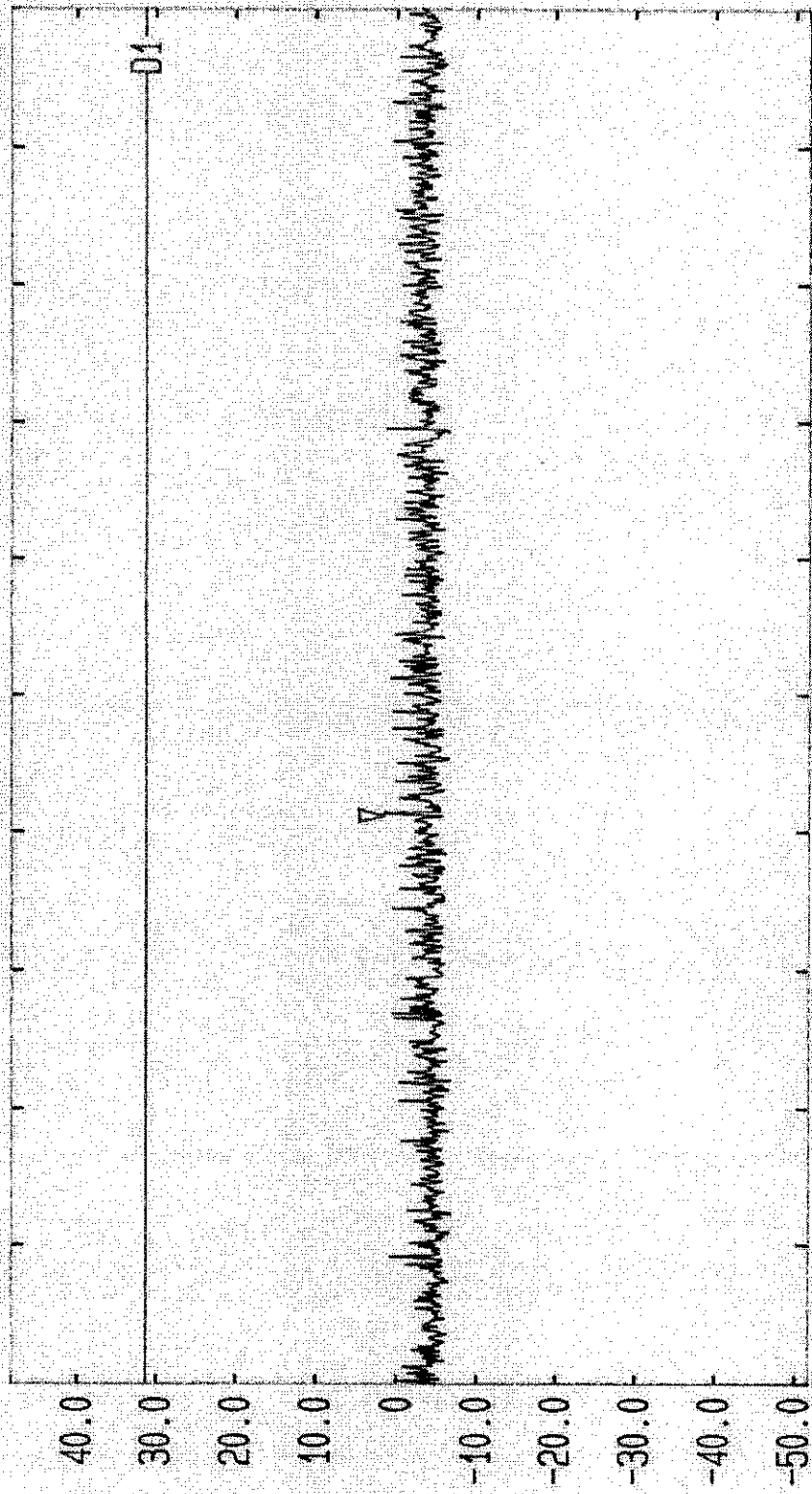
Start 9.51 GHz Span 100 MHz Center 9.56 GHz Sweep 20 ms Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 250ns. GPH/38756/JD01/020

LVLOFF '99 Time 11:56:12
 Date 06.Apr. '99
 Ref.Lvl 48.30 dBm
 Marker 0.49 dBm
 CF.Stp 10.000 MHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 9.51 GHz
 Span 100 MHz
 Center 9.56 GHz
 Sweep 20 ms
 Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47.2.1051.80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 350ns. GPH/38756/JD01/021

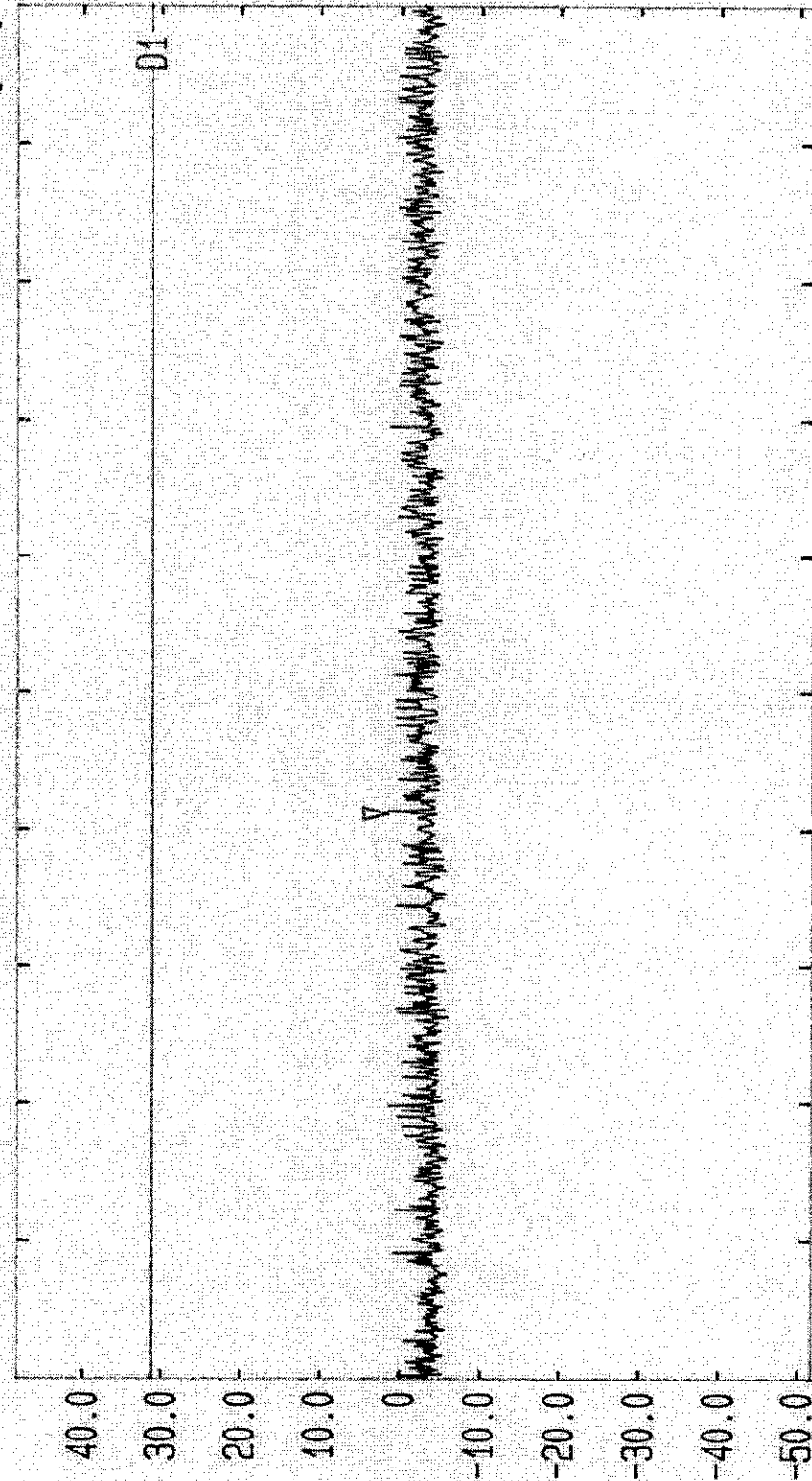
LVLOFF
 Date 06.Apr.'99 Time 11:58:39
 Ref Lvl Marker 1.81 dBm
 48.30 dBm 9.5513 GHz
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 10.000 MHz RF.Att 20 dB
 Unit [dBm]



Start 9.51 GHz Span 100 MHz Center 9.56 GHz Sweep 20 ms Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/022

LVLOFF
 Date 06 Apr '99 Time 12:00:51
 Ref.Lvl 48.30 dBm
 Marker 1.81 dBm
 9.5513 GHz

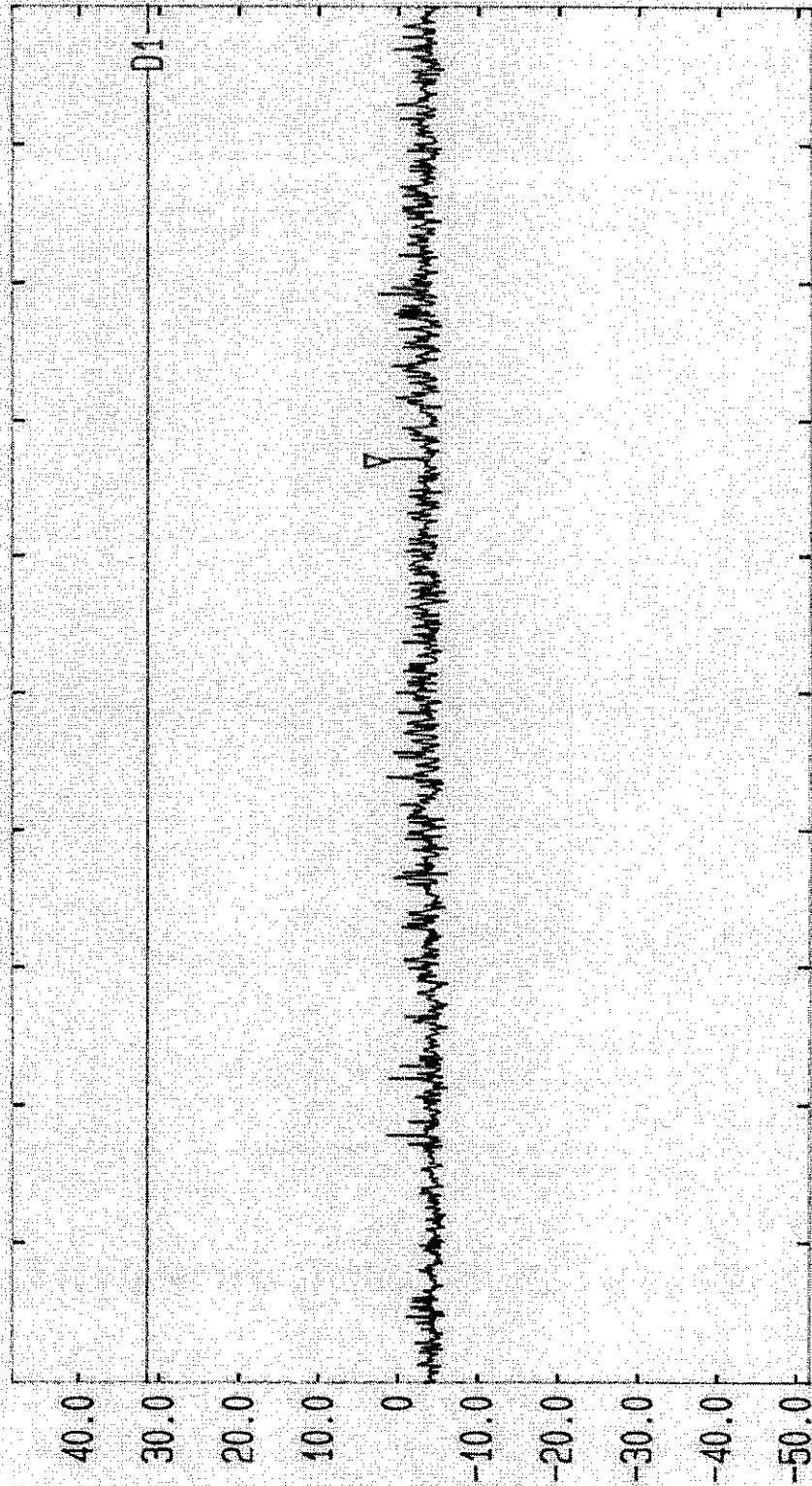
Res.Bw 1.0 MHz [3dB]
 CF.Stp 10.000 MHz
 Unit 20 dB [dBm]



Start 9.51 GHz
 Span 100 MHz
 Center 9.56 GHz
 Sweep 20 ms
 Stop 9.61 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: H75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 600ns. GPH/38756/JD01/023

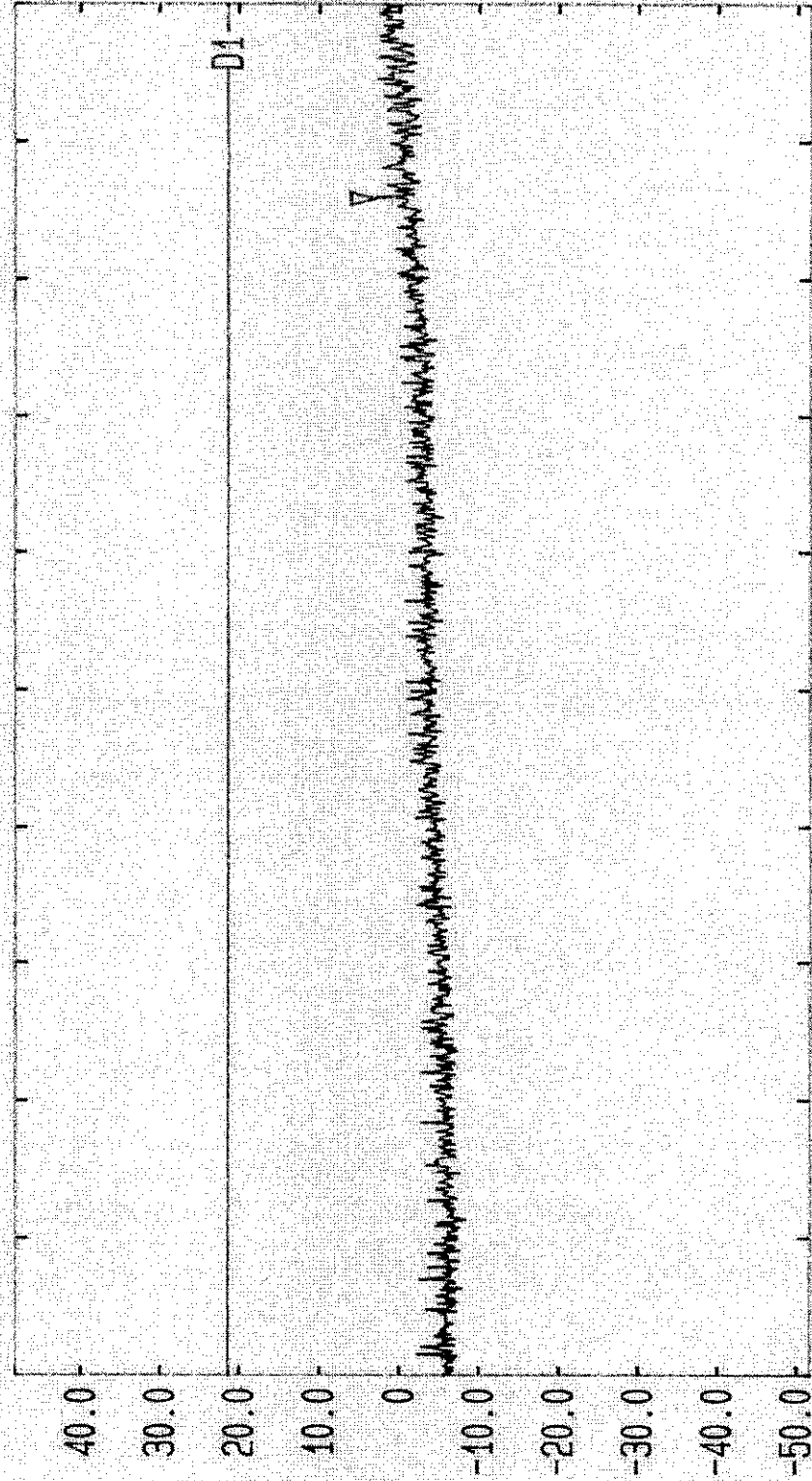
LVLOFF '99 Time 12:05:23
 Date 06.Apr. Marker 1.17 dBm
 Ref.Lvl 48.30 dBm
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 10.000 MHz RF.Att 20 dB
 Unit [dBm]



Start 9.51 GHz Span 100 MHz Center 9.56 GHz Sweep 20 ms Stop 9.61 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 1us. GPH/38756/JD01/024

LVLOFF '99 Time 12:08:21
 Date 06 Apr. '99
 Ref: Lvl 48.30 dBm
 Marker 3.10 dBm
 9.1680 GHz

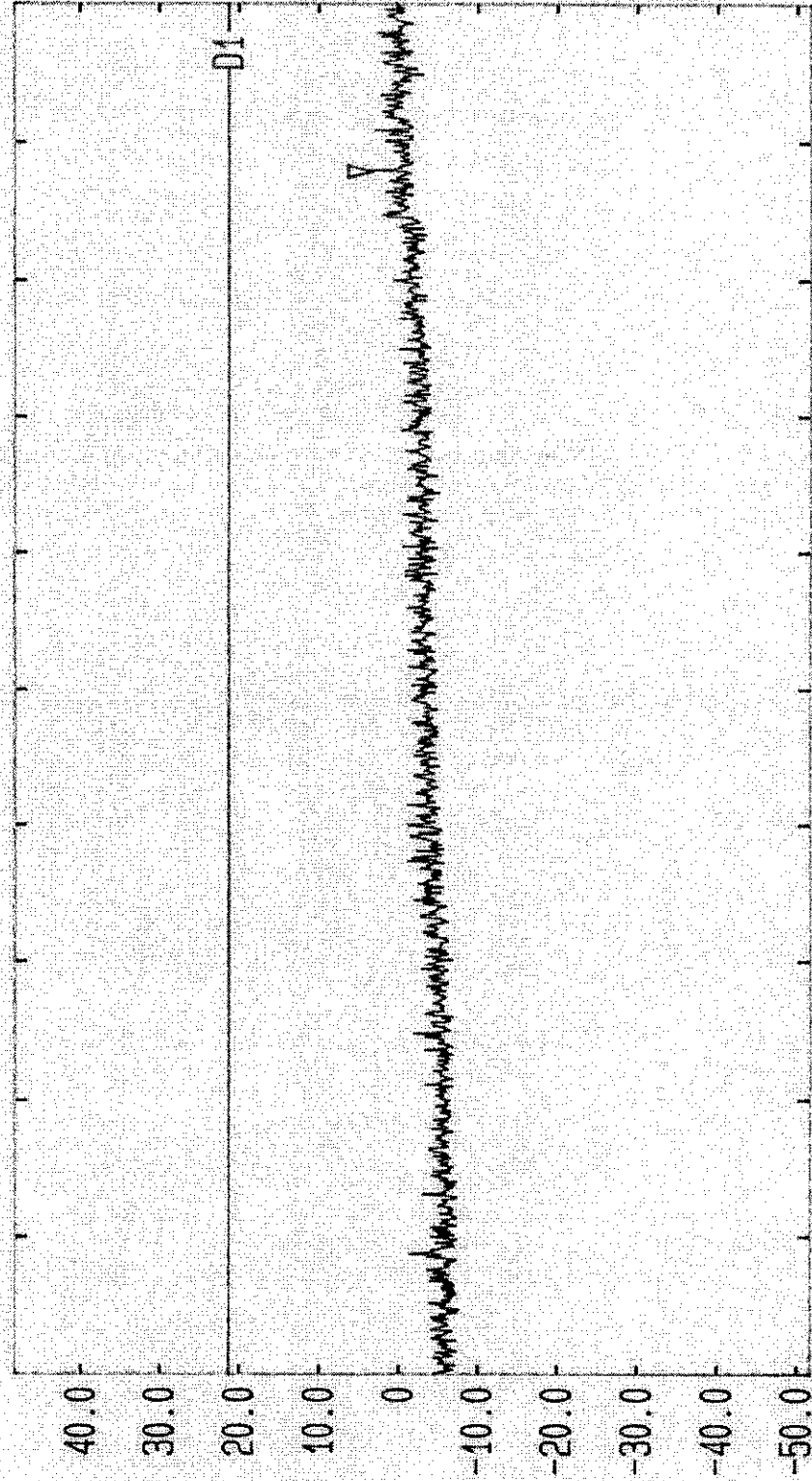
Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 8.91 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Stop 9.21 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75HC Supply 13.8Vdc Temp: 60ns. GPH/38756/JD01/025

LVLOFF
 Date 06 Apr '99 Time 12:11:46
 Ref.Lvl 48.30 dBm
 Marker 3.31 dBm
 CF.Stp 9.1740 GHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]

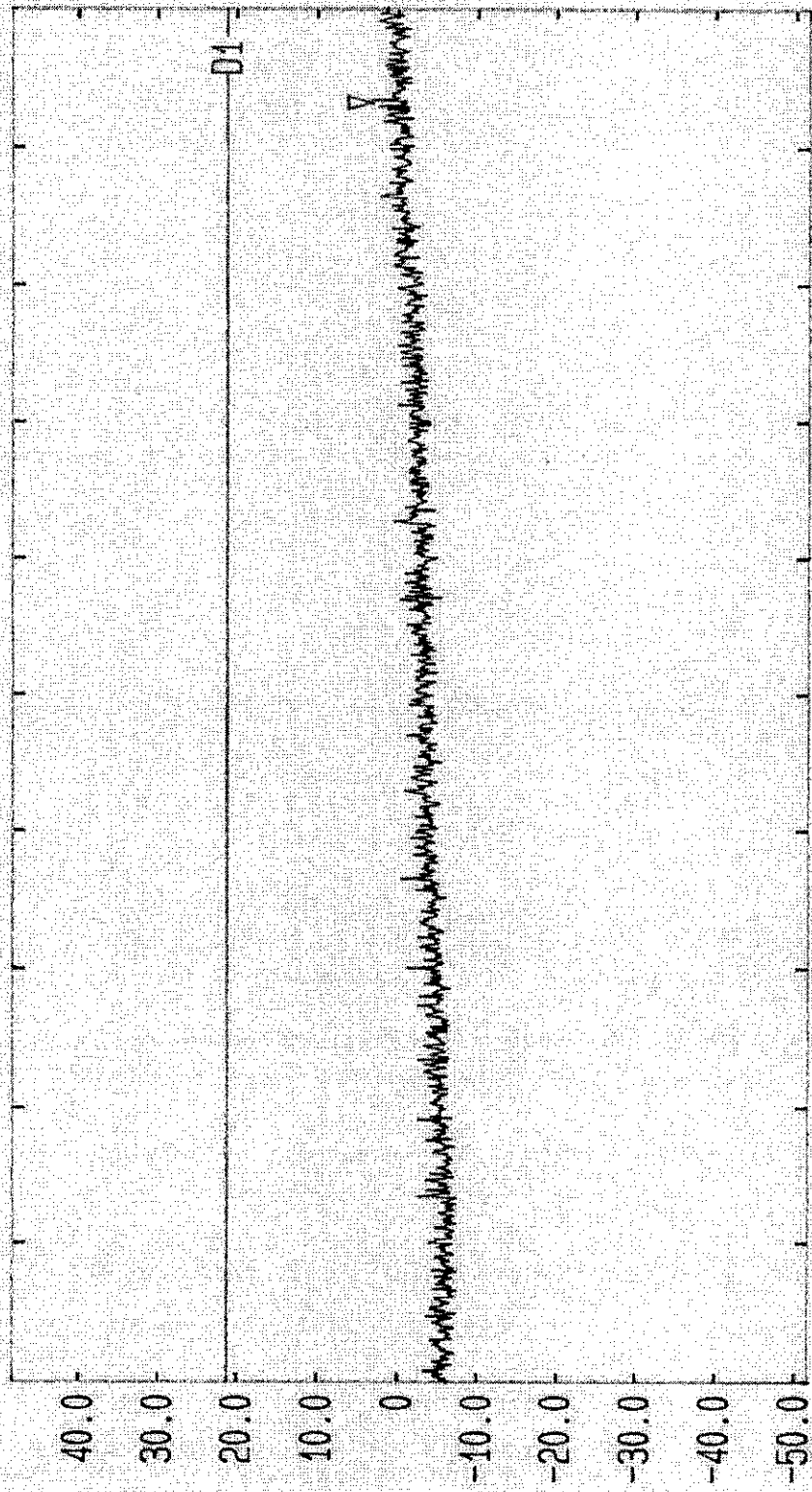


Start 8.91 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Stop 9.21 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 90ns. GPH/38756/JD01/026

LVLOFF
 Date 06.Apr.'99 Time 12:15:04
 Ref.Lvl 48.30 dBm
 Marker 3.31 dBm
 9.1903 GHz

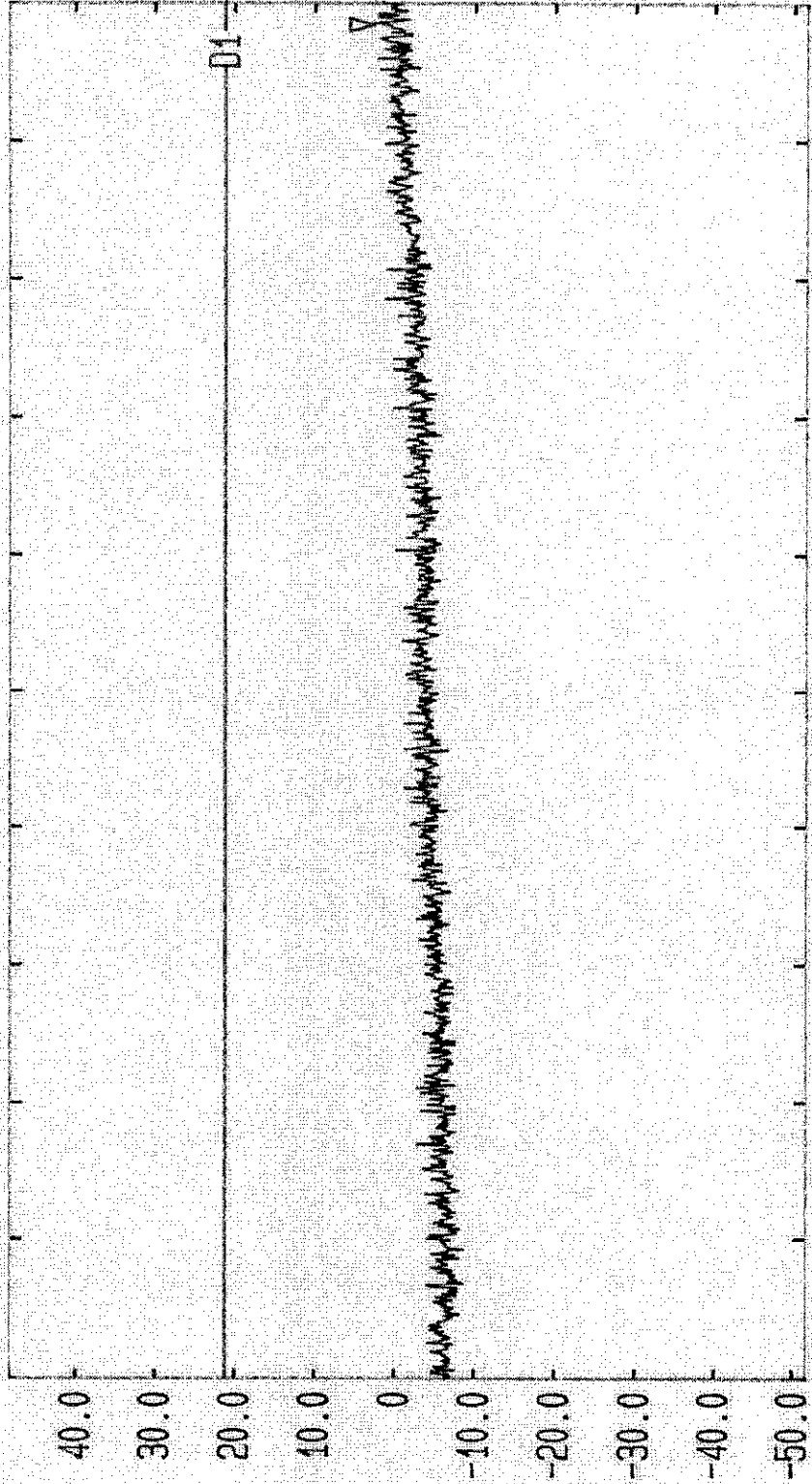
Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Unit

Vid.Bw 1 MHz
 RF.Att 20 dB
 [dBm]



Start 8.91 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Stop 9.21 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: A75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 150ns. GPH/38756/JD01/027

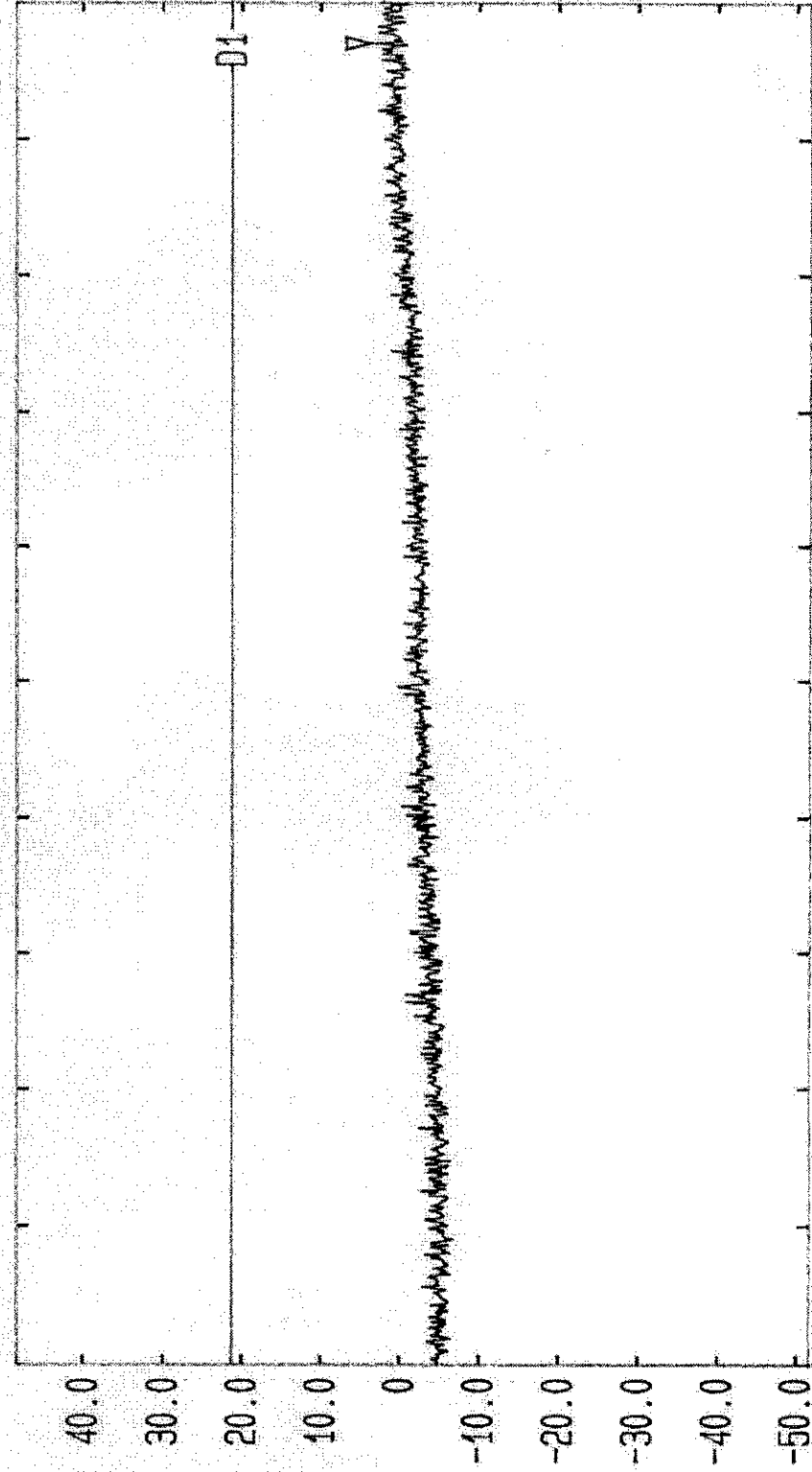
LVLOFF
 Date 06.Apr.'99 Time 12:17:50
 Ref.Lvl 48.30 dBm
 Marker 2.88 dBm
 CF.Stp 9.2056 GHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 8.91 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Stop 9.21 GHz

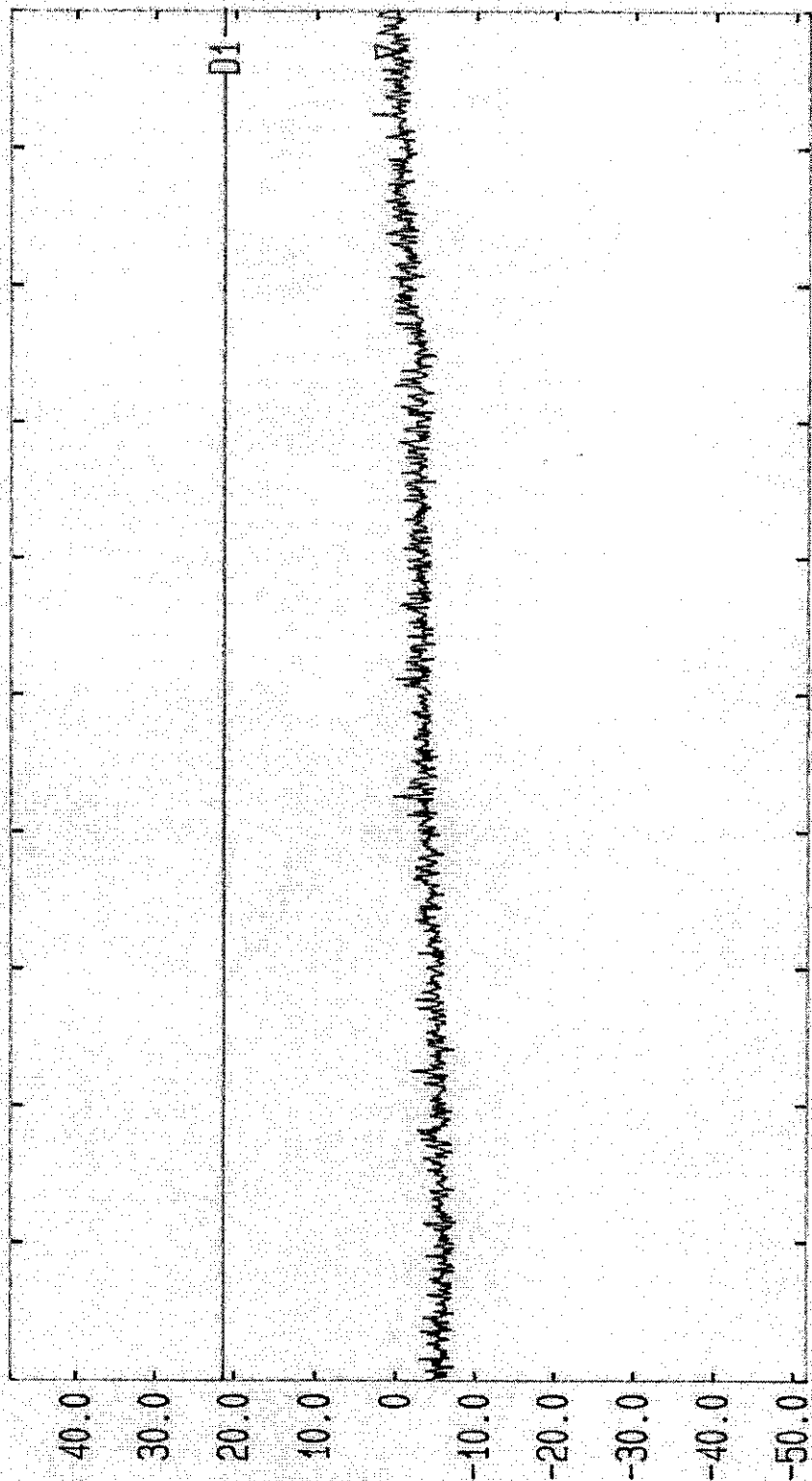
Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 250ns. GPH/38756/JD01/028

LVLOFF '99 Time 12:20:06
 Date 06.Apr. '99
 Ref.Lvl 48.30 dBm
 Marker 4.12 dBm
 CF.Stp 30.000 MHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 8.91 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Stop 9.21 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 350ns. GPH/38756/JD01/029

LVLOFF
 Date 06 Apr '99 Time 12:22:19
 Ref.Lvl Marker -0.22 dBm
 48.30 dBm 9.2010 GHz
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 30.000 MHz RF.Att 20 dB
 Unit [dBm]



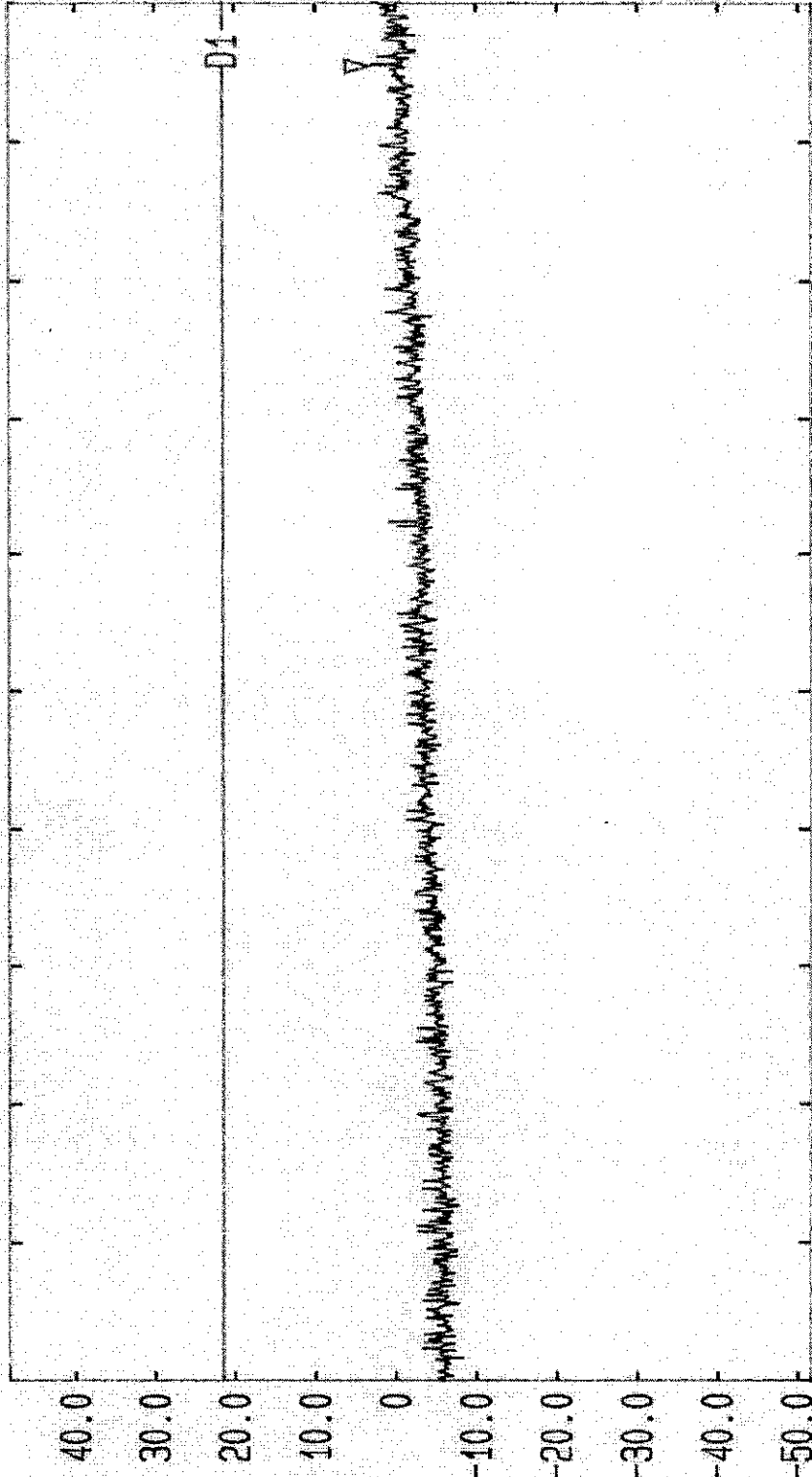
Start 8.91 GHz Span 300 MHz Center 9.06 GHz Sweep 20 ms Stop 9.21 GHz
 Spurious emissions measured for Raytheon Marine by AFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 450ns. GPH/38756/JD01/030

LVLOFF '99 Time 12:24:34
 Date 06.Apr. '99
 Ref.Lvl 48.30 dBm
 Marker 3.10 dBm
 9.1966 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Unit

Vid.Bw 1 MHz

RF.Att 20 dB
 [dBm]

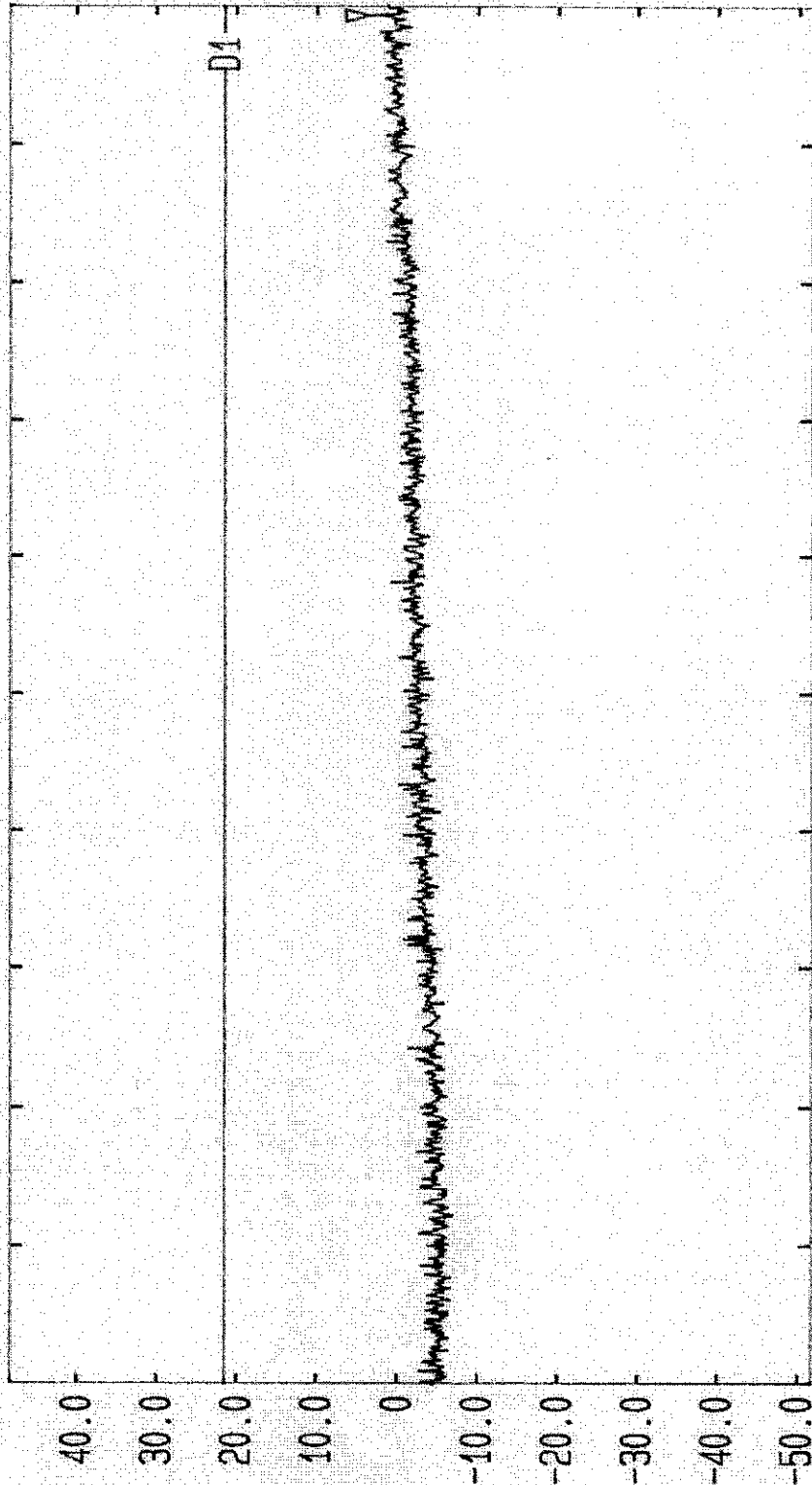


Start 8.91 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Stop 9.21 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 600ns. GPH/38756/JD01/031

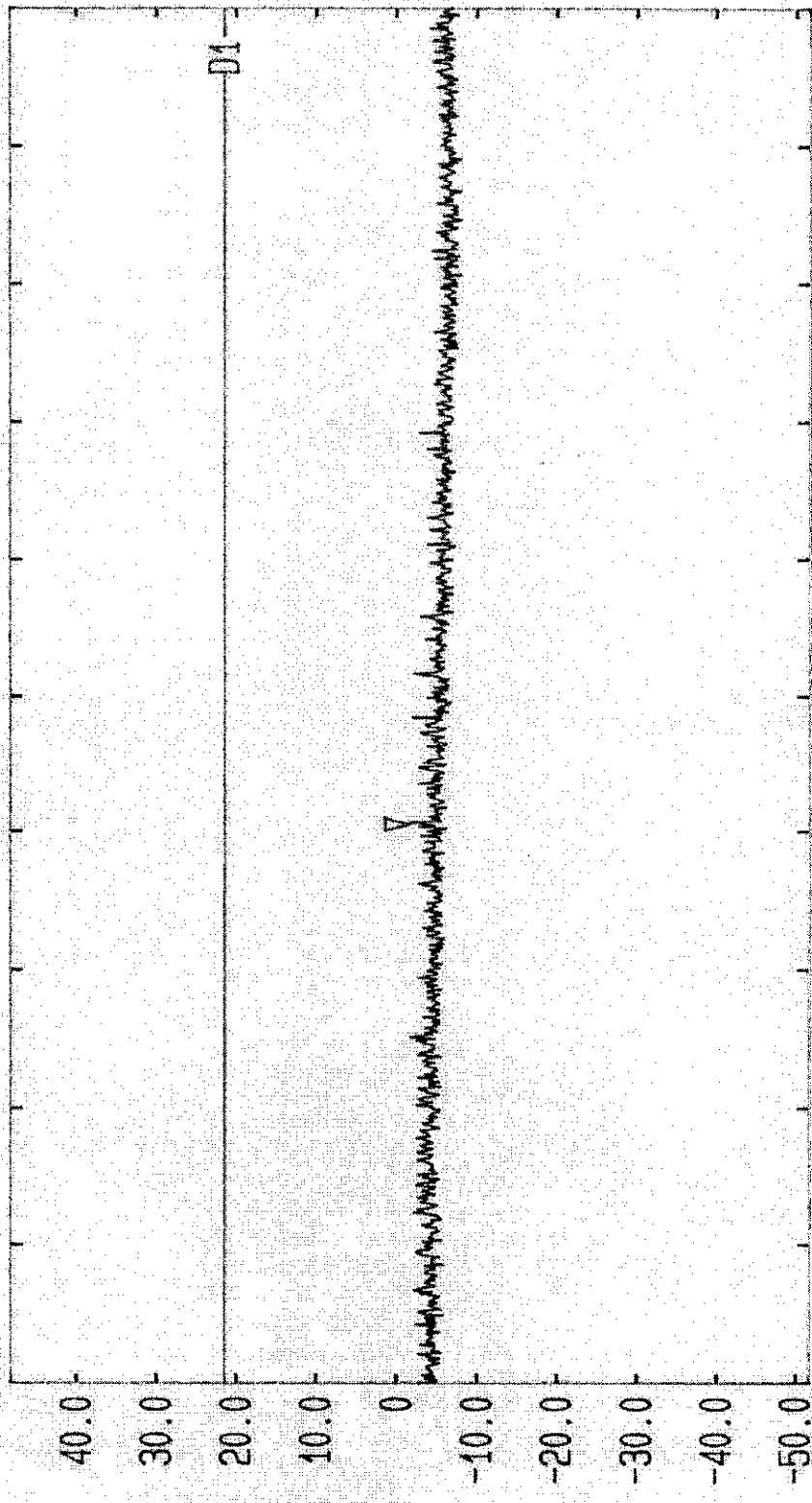
LVLOFF
 Date 06 Apr '99 Time 12:26:41
 Ref.Lvl 48.30 dBm
 Marker 3.49 dBm
 9.2080 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 RF.Att 20 dB
 Unit [dBm]



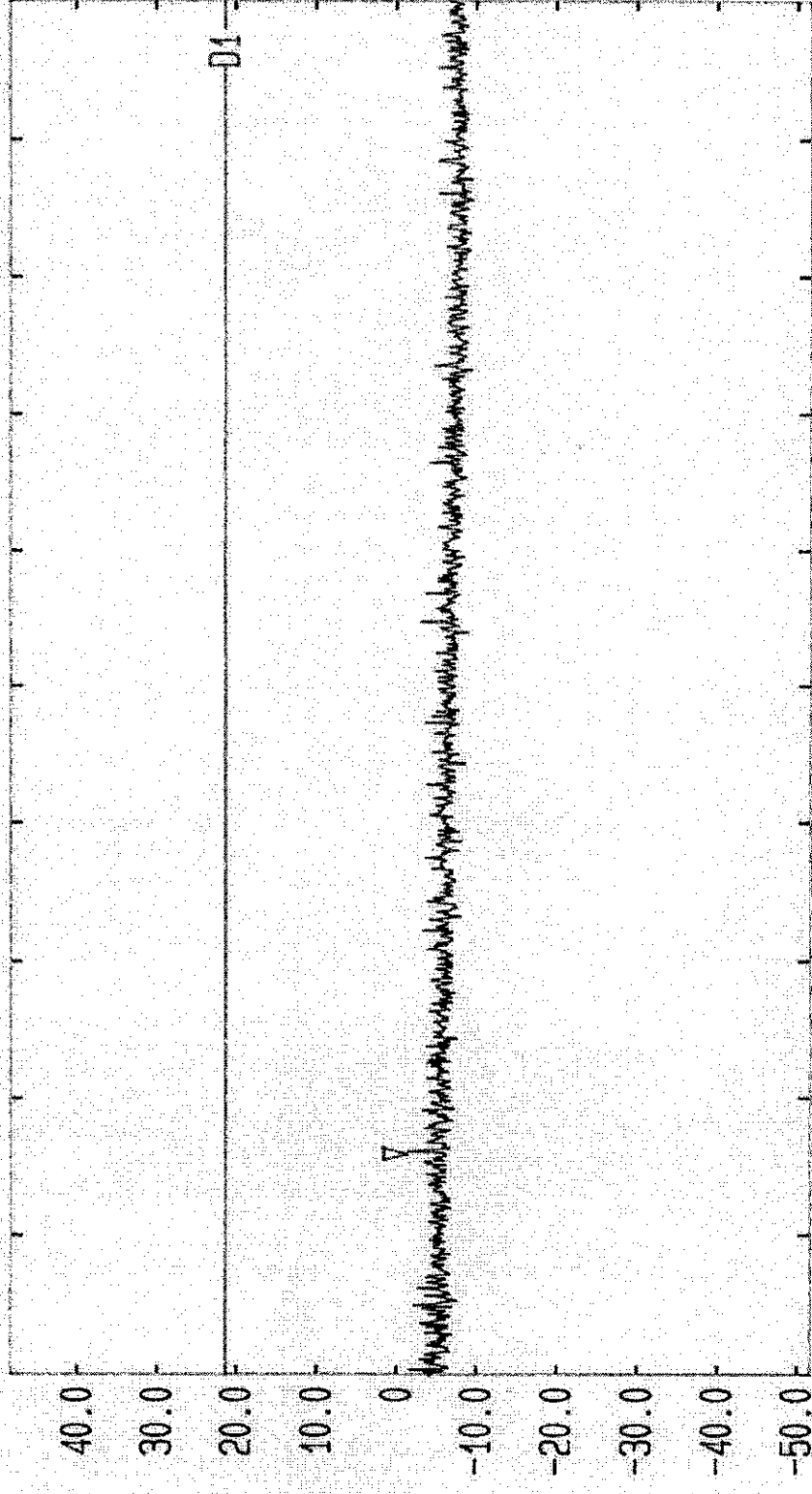
Start 8.91 GHz
 Stop 9.21 GHz
 Span 300 MHz
 Center 9.06 GHz
 Sweep 20 ms
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: R75AC Supply 13.8Vdc Temp: 18.0 RH: 65% Pulse Width: 1us. GPH/38756/JD01/032

LVLOFF
 Date 06 Apr '99 Time 14:05:39
 Ref.Lvl 48.30 dBm
 Marker -1.70 dBm
 9.7320 GHz
 Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 18.0 °C RH: 65% Pulse Width: 60ns GPH/38756/JD01/033

LVLOFF
 Date 06 Apr '99 Time 14:07:55
 Ref.Lvl 48.30 dBm
 Marker -1.42 dBm
 Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]

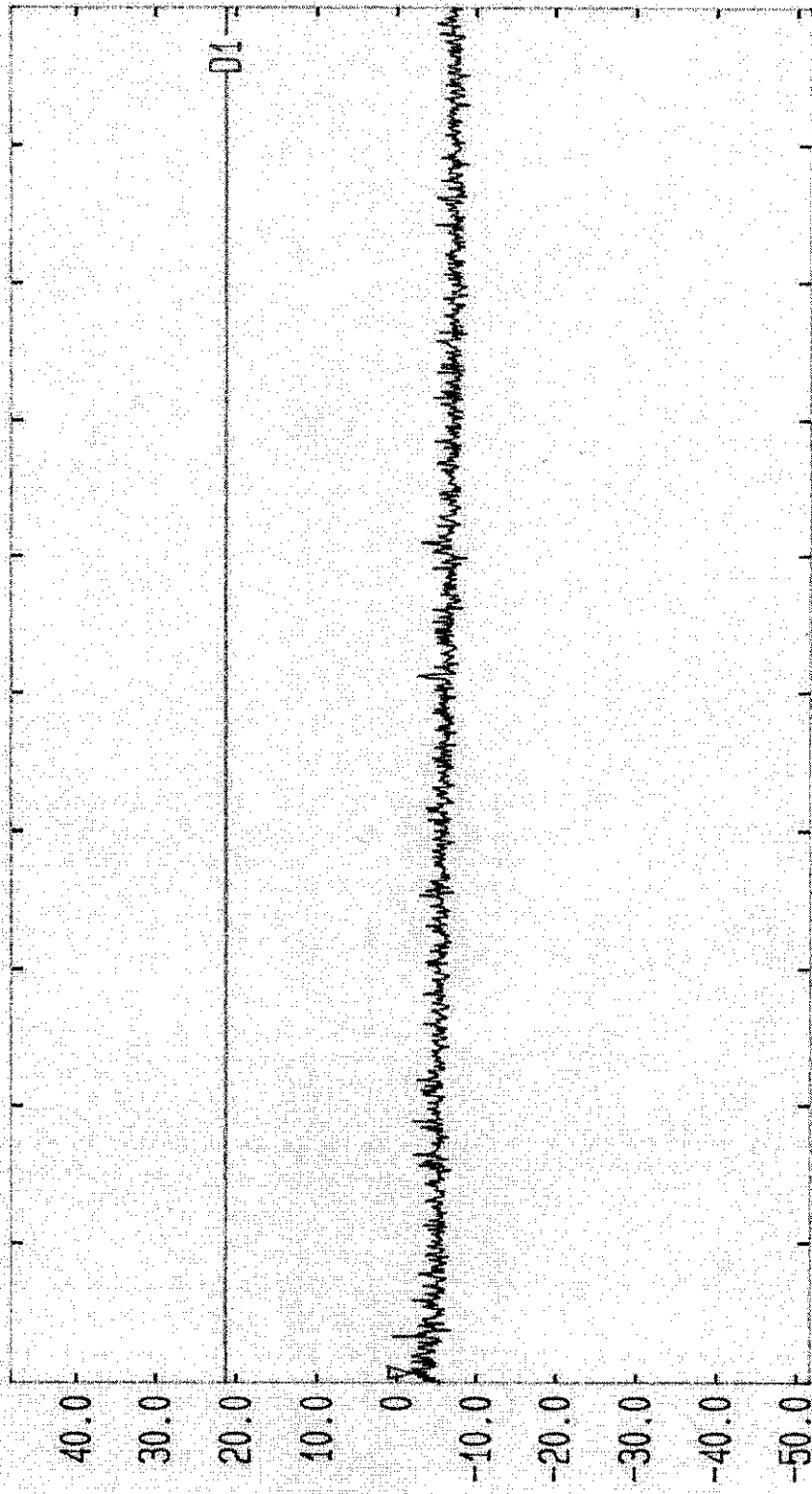


Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz
 Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: A75AC Supply 13.8Vdc Temp: 18.0°C RH: 65% Pulse Width: 90ns GPH/38756/JD01/034

LVLOFF
 Date 06 Apr '99 Time 14:10:06
 Ref.Lvl 48.30 dBm
 Marker -1.82 dBm
 9.6126 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 RF.Att 20 dB
 Unit [dBm]

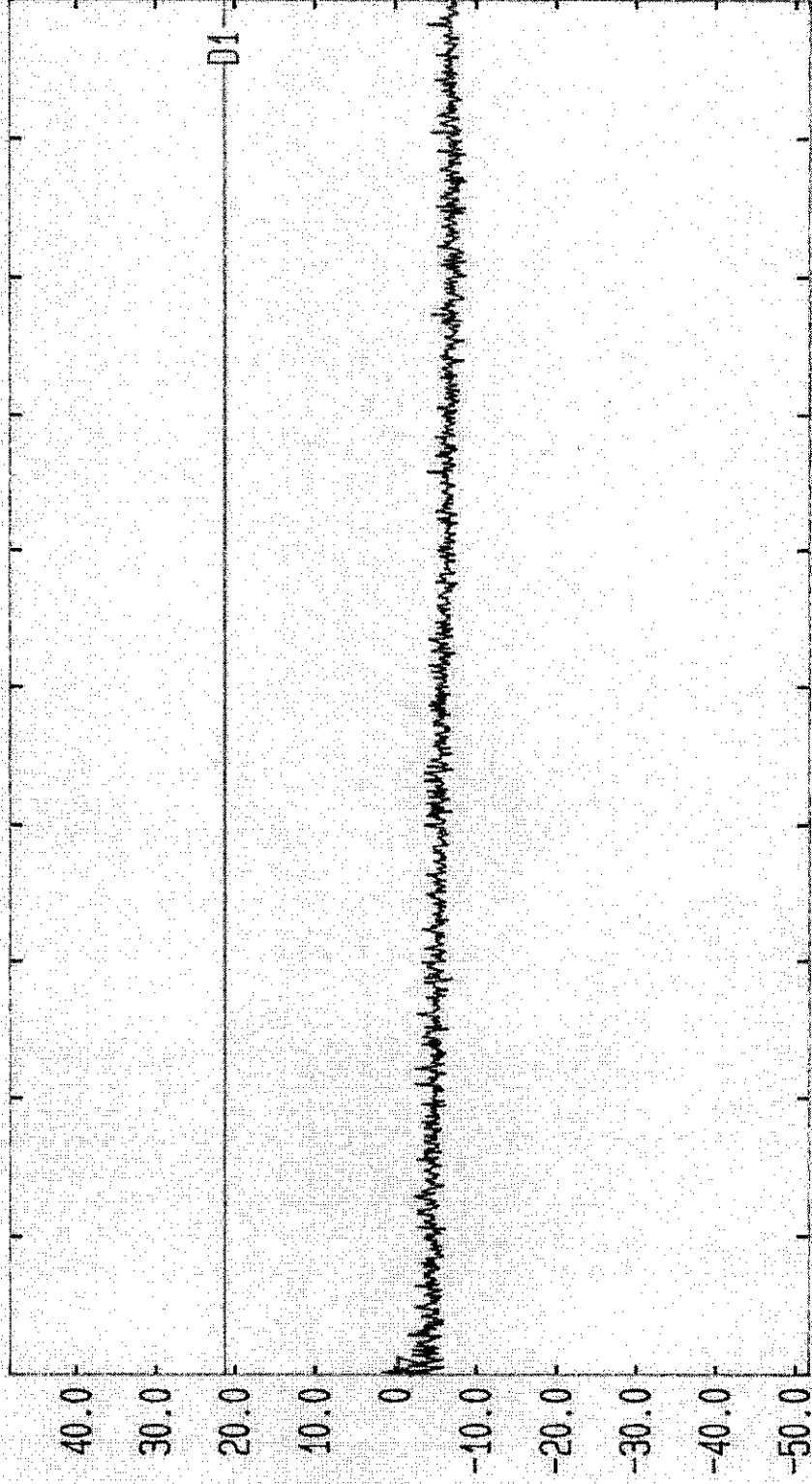
Vid.Bw 1 MHz



Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75AC Supply 13.8Vdc Temp: 18.0 °C RH: 65% Pulse Width: 150ns GPH/38756/JD01/035

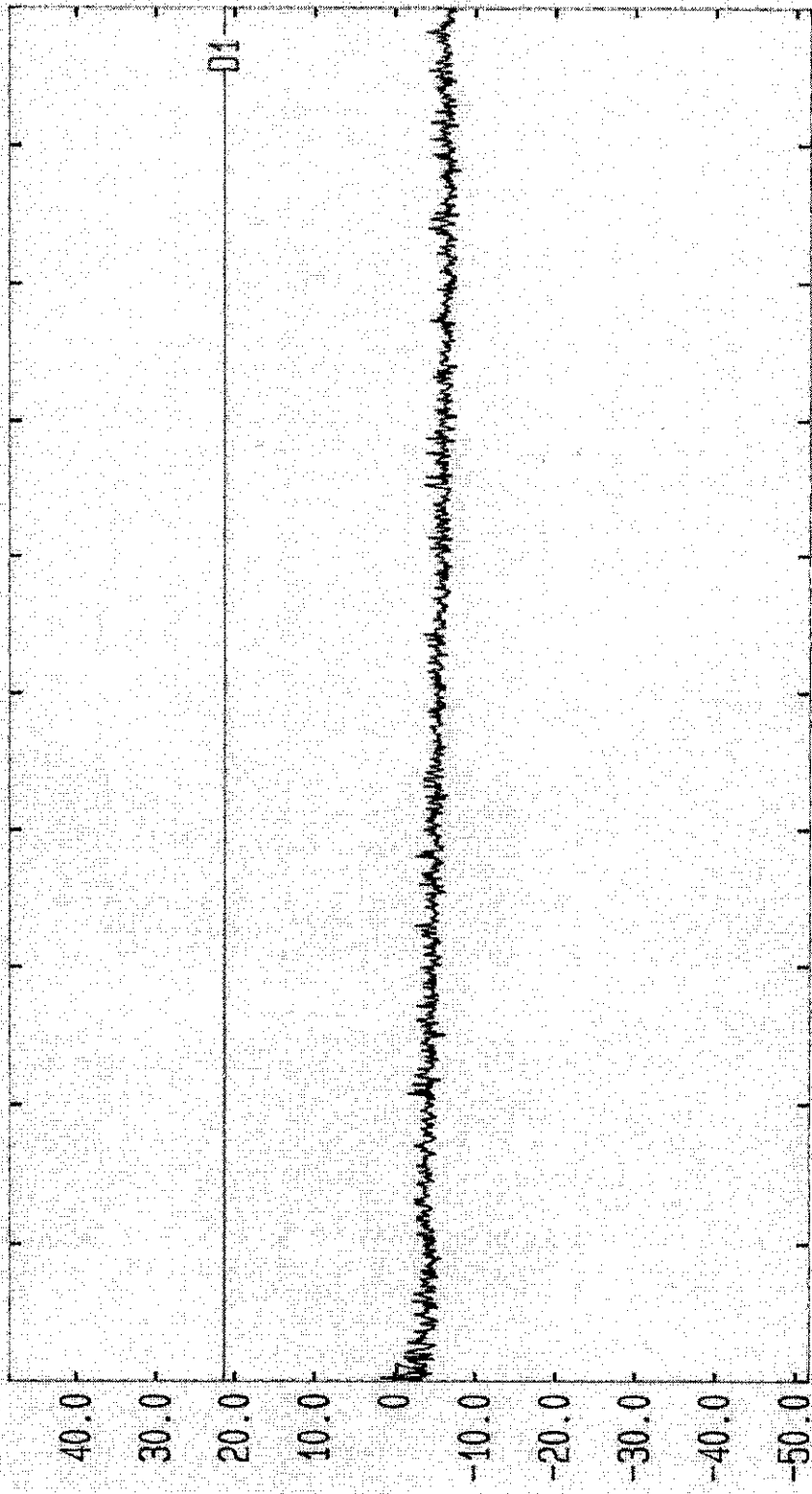
LVLOFF
 Date 06.Apr.'99 Time 14:12:28
 Ref.Lvl Marker -3.14 dBm
 48.30 dBm 9.6126 GHz
 Res.Bw 1.0 MHz [3dB] Vid.Bw 1 MHz
 CF.Stp 30.000 MHz RF.Att 20 dB
 Unit [dBm]



Start 9.61 GHz Span 300 MHz Center 9.76 GHz Sweep 20 ms Stop 9.91 GHz
 2purious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: R75RC Supply 13.8Vdc Temp: 19.6°C RH: 56% Pulse Width: 250ns GPH/38756/JD01/036

LVLOFF
 Date 06 Apr '99 Time 14:14:48
 Ref.Lvl 48.30 dBm
 Marker -3.14 dBm
 9.6126 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]



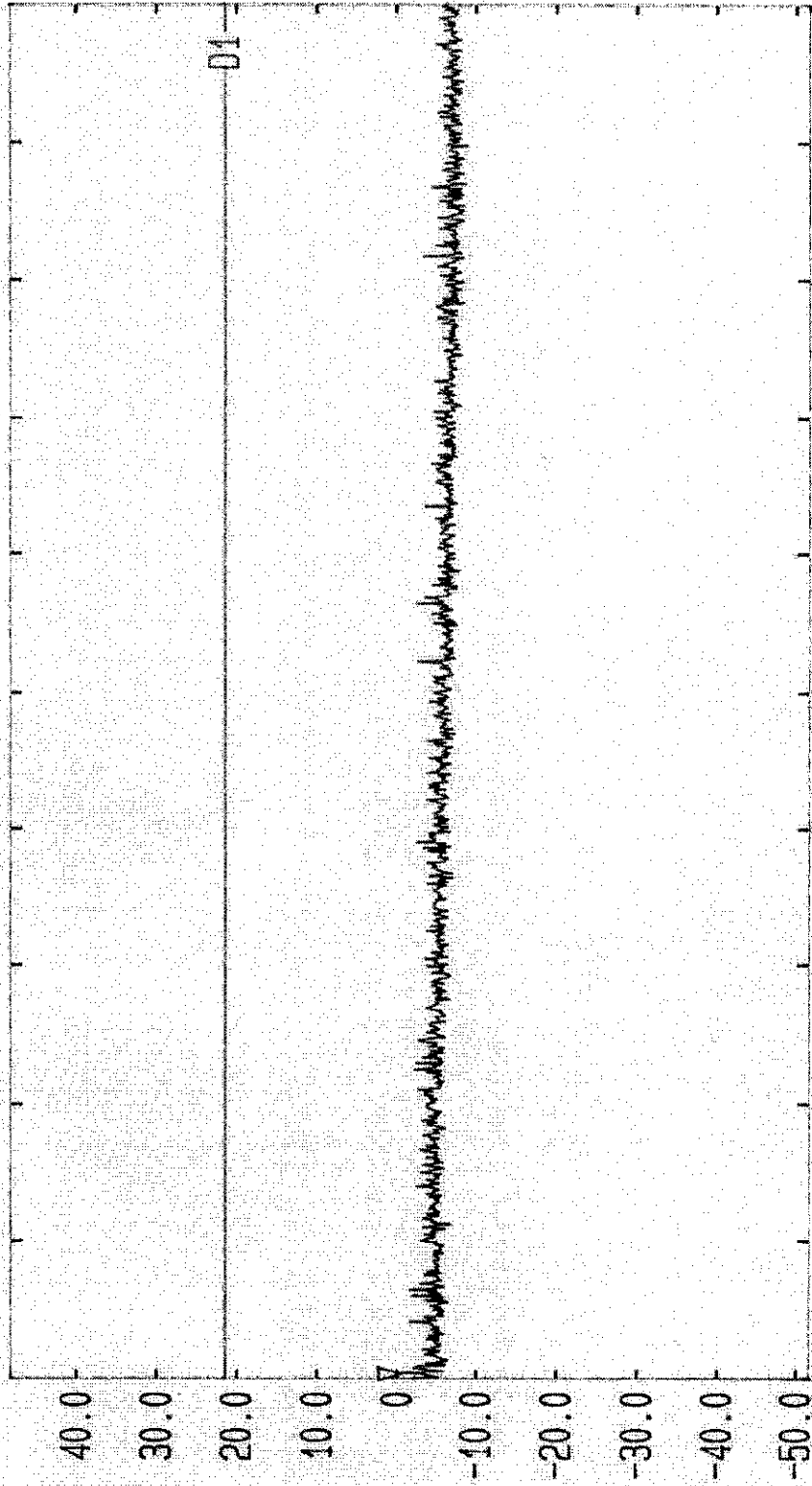
Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz

2purious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: A75AC Supply 13.8Vdc Temp: 19.6'C RH: 56% Pulse Width: 350ns GPH/38756/JD01/037

LVLOFF
 Date 06.Apr.'99 Time 14:17:00
 Ref.Lvl 48.30 dBm
 Marker -0.73 dBm
 9.6113 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Unit [dBm]

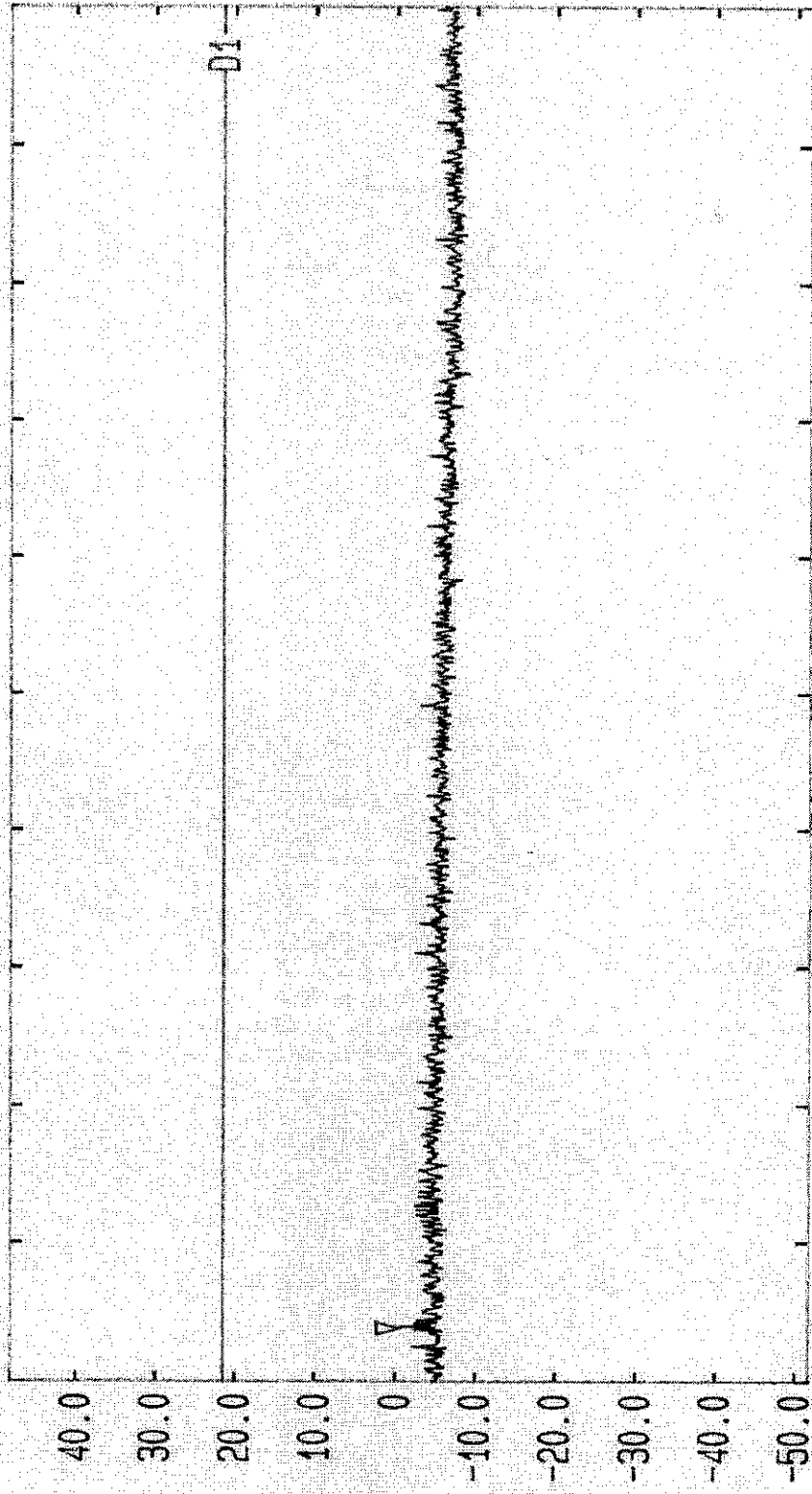
Vid.Bw 1 MHz
 RF.Att 20 dB



Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz

2purious emissions measured for Raytheon Marine by RFI: FCC CFR47 2.1051 80.211 (f)
 EUT: R75RC Supply 13.8Vdc Temp: 19.6°C RH: 56% Pulse Width: 450ns GPH/38756/JD01/038

LVLOFF
 Date 06.Apr.'99 Time 14:19:11
 Ref.Lvl 48.30 dBm
 Marker -0.86 dBm
 CF.Stp 9.6216 GHz
 Res.Bw 1.0 MHz [3dB]
 Vid.Bw 1 MHz
 RF.Att 20 dB
 Unit [dBm]

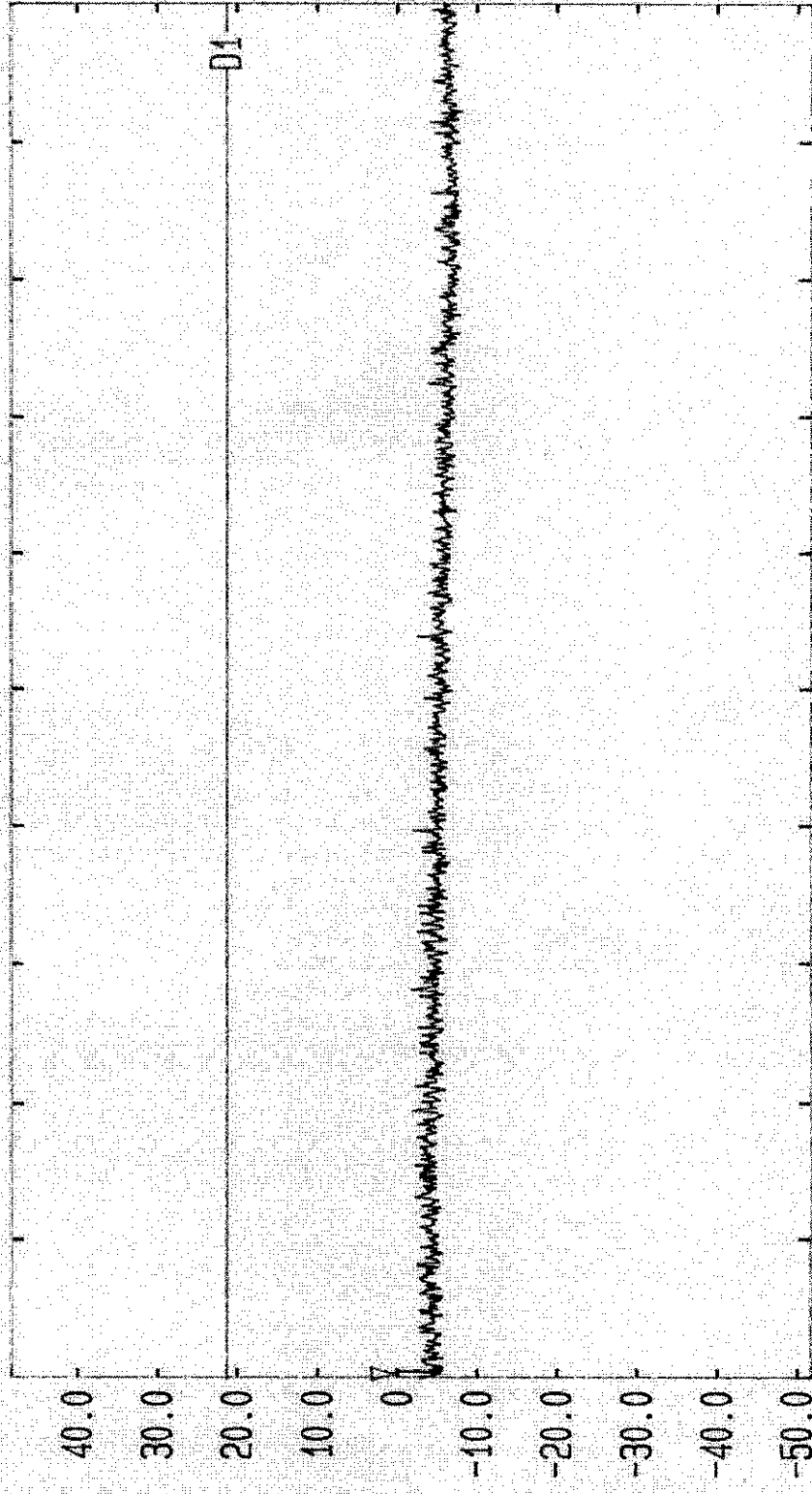


Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz
 2purious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211(f)
 EUT: A75RC Supply 13.8Vdc Temp: 19.6'C RH:56% Pulse Width: 600ns GPH/38756/JD01/039

LVLOFF
 Date 06.Apr.'99 Time 14:23:54
 Ref.Lvl 48.30 dBm
 Marker 0.39 dBm
 9.6113 GHz

Res.Bw 1.0 MHz [3dB]
 CF.Stp 30.000 MHz
 Unit

Vid.Bw 1 MHz
 RF.Att 20 dB
 [dBm]



Start 9.61 GHz
 Span 300 MHz
 Center 9.76 GHz
 Sweep 20 ms
 Stop 9.91 GHz

Spurious emissions measured for Raytheon Marine by RFI. FCC CFR47 2.1051 80.211 (f)
 EUT: A75RC Supply 13.8Vdc Temp: 19.6°C RH: 56% Pulse Width: 1us GPH/38756/JD01/040